Quarterly Report on Frequency Spectrum Monitoring

(July - September 2023)

འབྲུག་བང་དོན་ལྷུང་འཕེལ་དང་བང་ལྷུང་དབང་འཛིན།

Bhutan InfoComm and Media Authority
Royal Government of Bhutan

September 2023

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1. Background

Spectrum monitoring is the practice of maintaining and monitoring the network or devices that use Radio Frequency (RF) signals and frequencies. Due to the growing demands on the radio frequency spectrum, it is critical that spectrum monitoring is consistently carried out and also keep track with advanced techniques in radio communication technology. The Spectrum monitoring is carried out mainly to ensure that technical parameters and standards or guidelines for radiocommunication systems are adhered to by the users. In addition spectrum monitoring assists in promoting the efficient utilization of the radio frequency spectrum.

Spectrum Monitoring is closely associated with inspection and compliance that enables the identification and measurement of spectrum usage, interference sources, the verification of proper technical and operation characteristics of radiated signals, and detection and identification of illegal transmitters. The Monitoring further supports the overall spectrum management effort by providing general measurement of channel and band usage, including the channel availability and measure of spectrum occupancy.

The Bhutan InfoComm and Media Authority conducts fixed and mobile spectrum monitoring to ensure that spectrum use complies with the National Radio Rules and Regulations. The monitoring can detect, identify and resolve the unauthorized transmission or interference, verify technical and operational parameters, and to monitor occupancy and field strength.

2. Monitoring

To ensure effective and proper utilization of spectrum, to control unauthorized transmission and to ensure compliance of equipment and stations with the the National Radio Rules and Regulation, the Authority has monitored the fixed and mobile spectrum from July to September, 2023 in following places;

Sl. No	Monitored Places	Monitored Frequency
1.	Punakha (Mobile Spectrum Monitoring)	VHF and UHF Frequency
2.	Thimphu (Fixed Spectrum Monitoring)	FM Broadcasting Transmitter

3. Objective of Spectrum Monitoring

The main objective of the Spectrum measurement monitoring is:

a. To ensure the authorized spectrum for proper application in conformity with the licensing terms and conditions.

b. To survey and inspect radio communication systems.

c. To ensure compliance of transmitters and stations with the National Radio Rules and Regulations.

d. To detect and identify unauthorized transmission.

e. To determine the spectrum occupancy, field strength and assessment of channel availability which will be useful for proper spectrum planning and management.

4. Details of the Equipment used for Fixed and Mobile Spectrum Monitoring

The details of existing Spectrum monitoring equipment of the Authority are as mentioned below:

a. Fixed Spectrum Monitoring

Equipment Make/Model: LS Telecom FMU308w

Type of the Antenna: HF/VHF/UHF/SHF omni-directional antenna
Monitoring Receiver: FMU supports frequency range from 9kHz to 8GHz
Calibration details: Calibrated on 15-02-2023 and valid up to 2 to 3 years

b. Mobile Spectrum Monitoring

Equipment Make/Model: Narda SignalShark 3310

Type of the Antenna: HF/VHF/UHF/SHF directional antennas
Spectrum Analyzer/Receiver: Frequency range for the receiver is from 8KHz to 8GHz
Calibration details: Calibrated on 23-01-2023 and valid up to 2 to 3 years

5. Methodology

The Spectrum measurement monitoring was carried out as mentioned below;

a. Fixed Spectrum Monitoring

The fixed spectrum monitoring was done with the Fixed Monitoring equipment and LS Observer software for the transmission frequency signals. The Fixed Monitoring equipment is fixed to a

particular location and the monitoring is usually done through the scanning of the frequency and obtaining its transmission and reception characteristics.

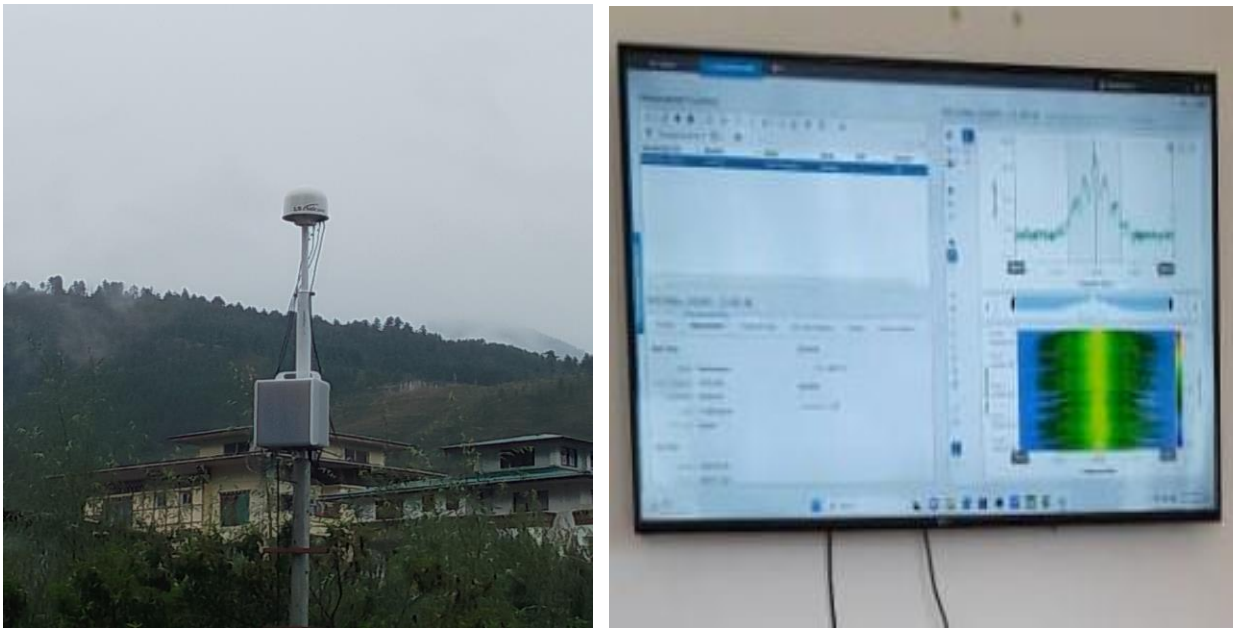


Figure 1: Fixed Spectrum Monitoring

b. Mobile Spectrum Monitoring

The Mobile Spectrum Monitoring was carried out using the DF monitoring equipment which was mounted in the roof of the car. These vehicles are passenger cars used to carry equipment and antennas. The antenna array used for DF and monitoring is mounted in an unobtrusive roof-top carrier mounted directly to the luggage rack on the roof of the car. The monitoring and DF equipment is mounted in the luggage area at the rear of the car.

Figure 2: Mobile Spectrum Monitoring

6. Findings

a. Mobile Spectrum Monitoring in Punakha

i. The monitoring team have scanned the frequency of the handset and base station of Ugyen Academy school and it's found that it is operating on 147.425 MHz frequency which is assigned by the Authority as shown in **Annexure 1**.

ii. The monitoring teams carried out the Mobile Spectrum Monitoring in hotel, resort and construction sites. During the monitoring we were able to find other illegal radio user using the services without approval from the Authority as mentioned below:

- The Hotel Lobesa was operating the walkie talkie services without approval from the Authority and the detected frequency is 462 MHz as shown in **Annexure 1**

- The RKPO Hotel was operating the walkie talkie services without approval from the Authority, the detected frequencies are 470, 462.1 and 450 MHz as shown in **Annexure 1**.

- Chimi Lhakhang Construction Project was operating the walkie talkie services without approval from the Authority, the detected frequencies are 172.93, 170.69 and 166.12 MHz as shown in **Annexure 1**.

- The Chimipang Royal Project at Punakha was using the 161.47 MHz frequency without the approval of the Authority.

- The Punakha Central School was operating the walkie talkie services without registration and approval of the Authority. The detected frequency is 462.6 MHz as shown in **Annexure 1**.

- The Tashidingkha Central School were also operating the walkie talkie services without registration and approval of the Authority, the detected frequencies are 362.1 MHz as shown in **Annexure 1**.

b. Fixed Spectrum Monitoring in Thimphu

a. The team have carried out the Fixed Spectrum Monitoring for FM transmitter frequencies ranging from 85 MHz to 108 MHz

b. During the monitoring, we have found out that the following frequencies are actively operating and occupying the band for FM transmitters. The detailed reading of the measurement is shown in **Annexure 2**.

Sl.	**Frequency Range**	**Spectrum Occupancy**	**Remark**
1	85 MHz-87.96 MHz	No Spectrum Occupancy	Inactive/No operation
2.	**87.99 MHz-88.96 MHz**	**Active/Occupied**	**Licensed and Operating by BBS**
3.	88.29 MHz-91.86 MHz	No Spectrum Occupancy	Inactive/No operation
4.	**91.89 MHz-92.11 MHz**	**Active operation/Occupied**	**Licensed and Operating by BBS**
5.	92.14 MHz-95.84 MHz	No Spectrum Occupancy	Inactive/No operation
6.	**95.86 MHz-96.19 MHz**	**Active Operation/Occupied**	**Licensed and Operating by BBS**
7	96.21MHz-97.84 MHz	Inactive/No operation	Inactive/No operation
8	**97.86 MHz-98.19 MHz**	**Active Operation/Occupied**	**Licensed and Operating by BBS**
9	98.19 MHz-99.74 MHz	No Spectrum Occupancy	Inactive/No operation
10	**99.76 MHz-100.09 MHz**	**Active operation/Occupied**	**Licensed and Operating by Radio Valley**
11	100.11-100.89 MHz	No Spectrum Occupancy	Inactive/No operation
12	**100.91MHz-101.09 MHz**	**Active operation/Occupied**	**Licensed and Operating by Centennial Radio**
13	101.11MHz-103.84 MHz	No Spectrum Occupancy	Inactive/No operation
14	**103.86 MHz-104.16 MHz**	**Active operation/Occupied**	**Licensed and Operating by Kuzoo FM**
15	104.9 MHz-104.84 MHz	No Spectrum Occupancy	Inactive/No operation
16	**104.86 MHz-105.16 MHz**	**Active operation/Occupied**	**Licensed and Operating by Kuzoo FM**
17	105.19 MHz-107.99 MHz	No Spectrum Occupancy	Inactive/No operation

c. The details of the spectrum occupancy result are attached in **Annexure 2**.

d. The power emission and frequency used FM transmitter monitored are all within the permissible limits.

e. There is no out of band transmission from the FM transmitters.

f. The detailed findings of Field Strength/Power emission are attached.

g. No illegal operations were detected so far in FM range.

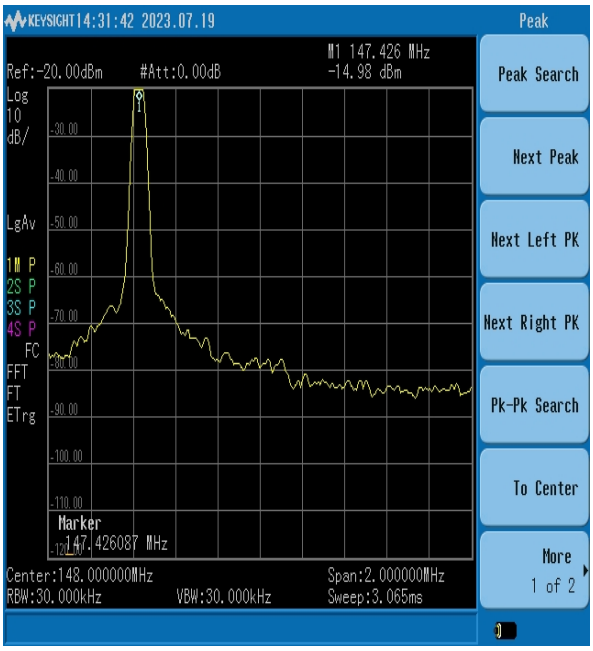
7. Follow up

The Authority has issued the regulatory warnings to the respective unauthorised users of the frequencies mentioned above and the users have now obtained licenses from the Authority to carry out authorised operations. The agencies/firms which have obtained the formal licenses after the regulatory warnings were issued are;

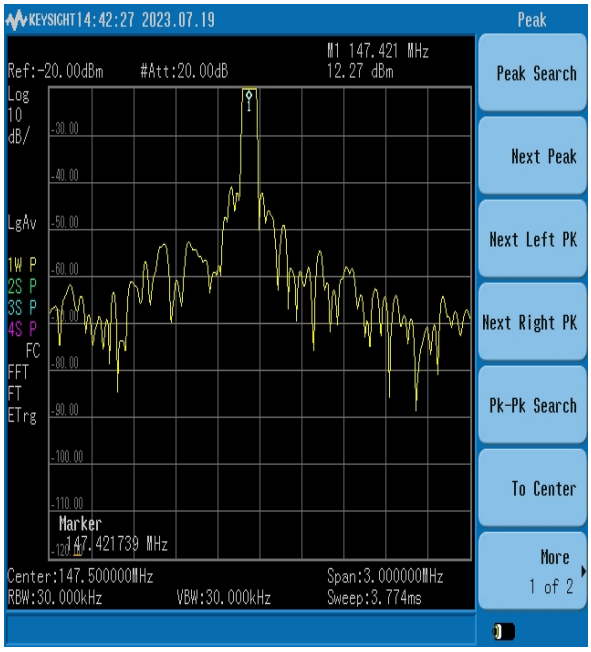
- RKPO Hotel
- Hotel Lobesa
- Chimi Lhakhang Construction Project
- Punakha Central School
- Chimipang Royal Project

Annexure 1

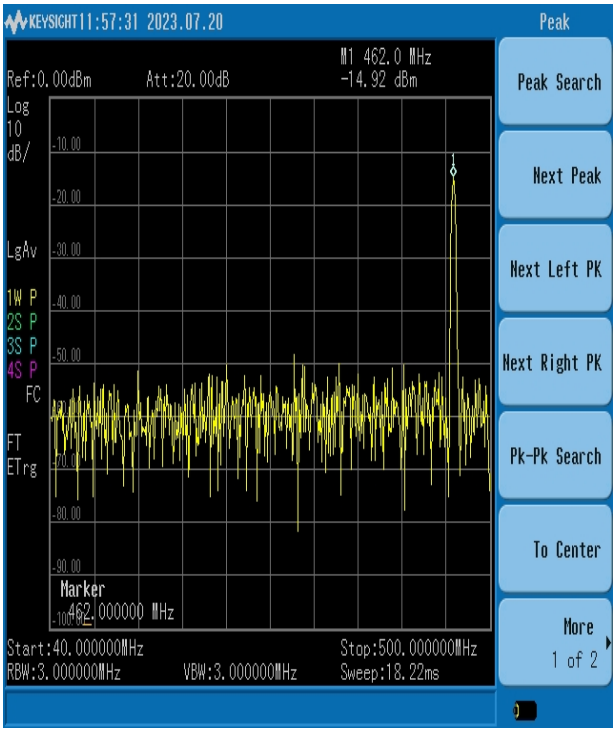
The signal detected during the Mobile Spectrum Monitoring:



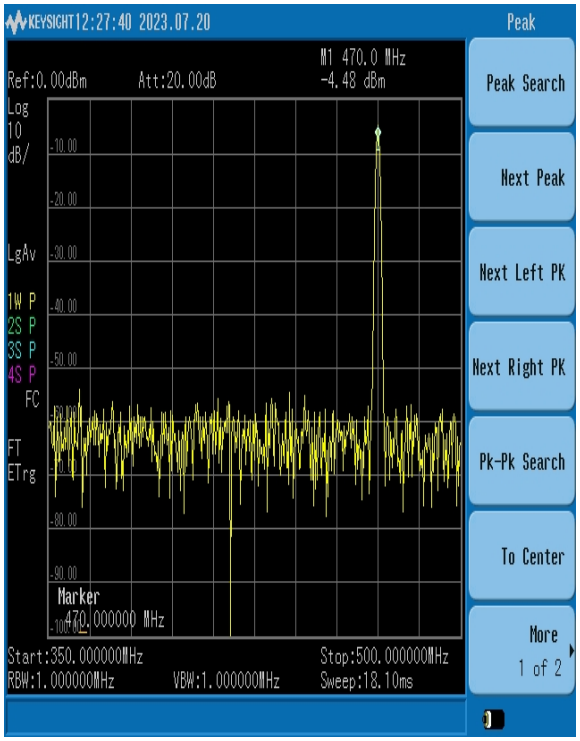
Name: Ugyen Academy (Handset)
Frequency: 147.426 MHz



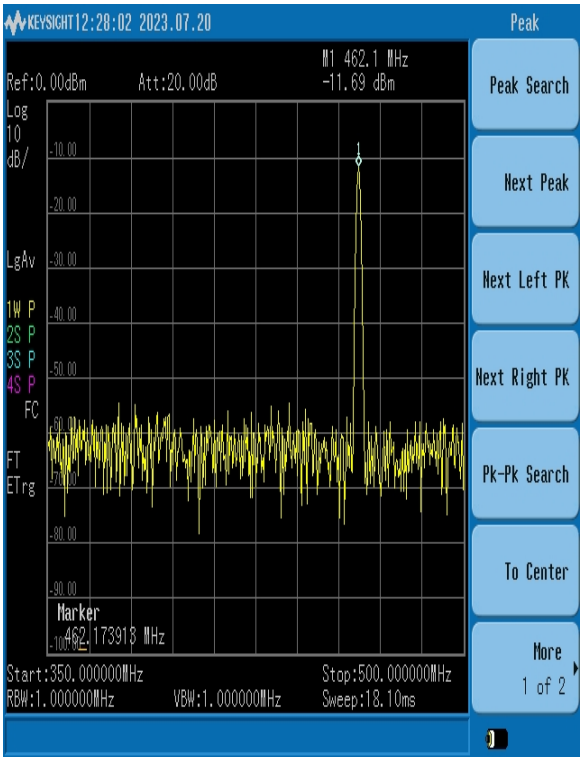
Name: Uyen Academy (Base Station)
Frequency: 147.421 MHz



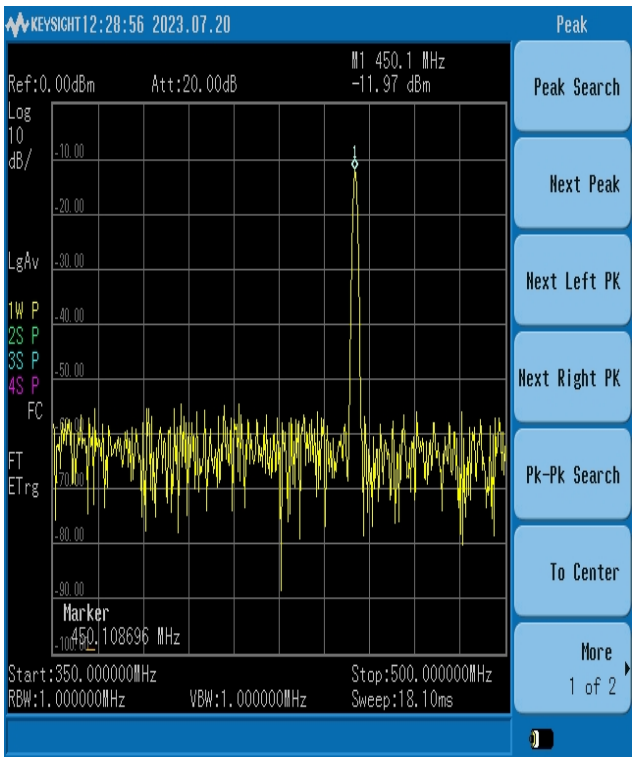
Name: Lobesa Hotel
Frequency: 462.0 MHz



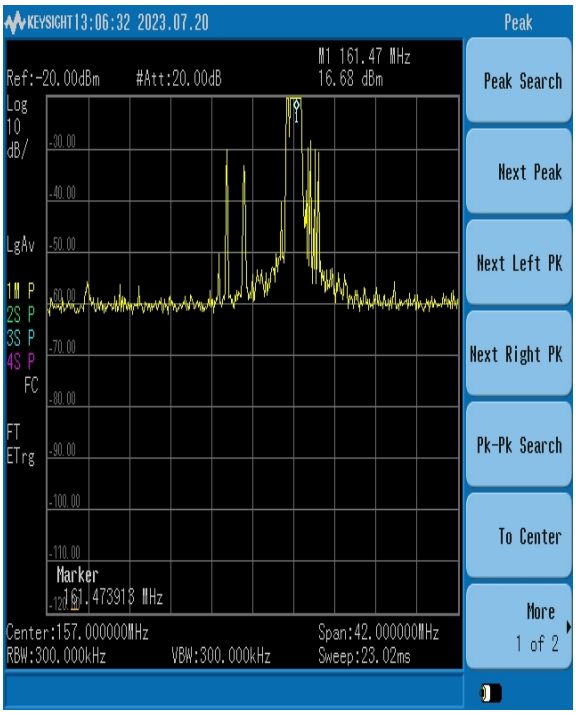
Name: RPQO
Frequency: 470.0 MHz



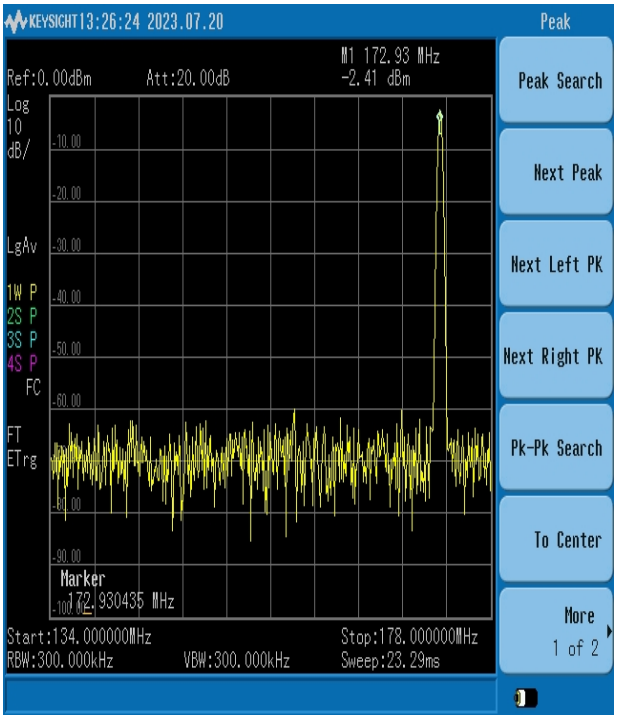
Name: RPQO
Frequency: 462.1 MHz



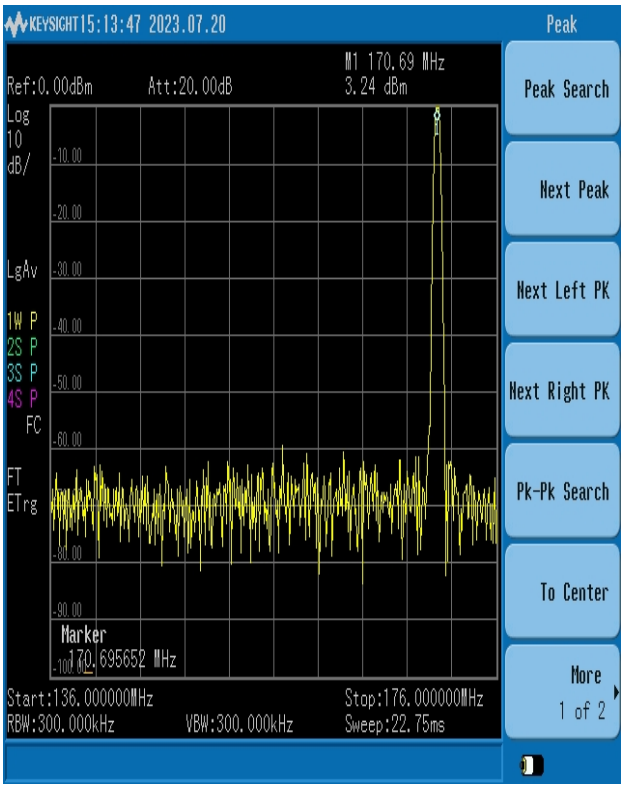
Name: RPQO
Frequency: 450.0 MHz



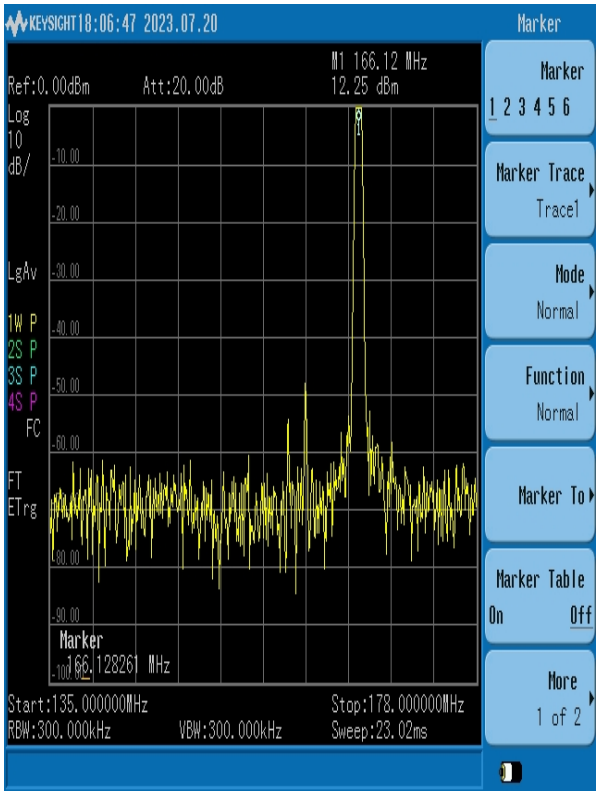
Name: Forest Division
Frequency: 161.47 MHz



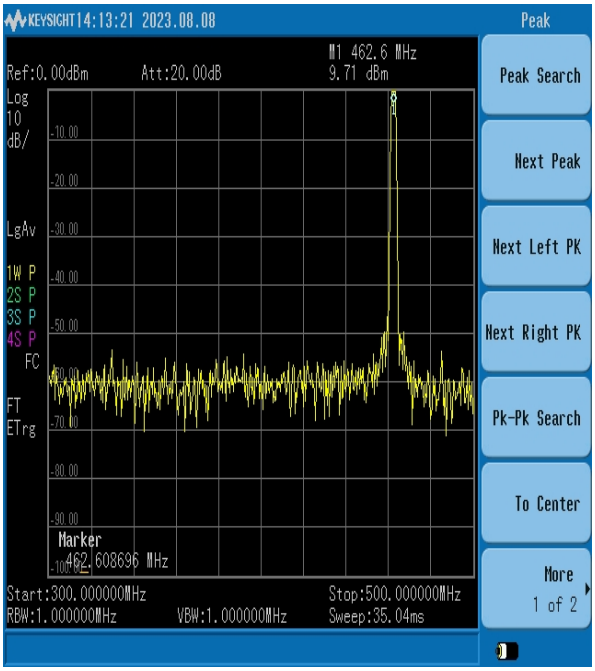
Name: Chimi Lhakhang Construction
Frequency: 172.93 MHz



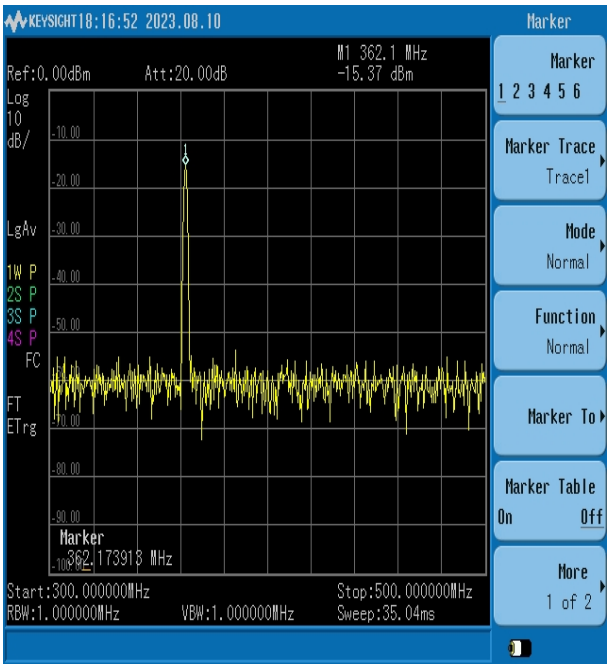
Name: Chimi Lhakhang Construction
Frequency: 170.69 MHz



Name: Chimi Lhakhang Construction
Frequency: 166.12 MHz



Name: Punakha Central School
Frequency: 462.6 MHz



Name:Tashidingkha Central School
Frequency: 362.1 MHz

Annexure 2

The following are the details result of the system generated spectrum occupancy report monitoring for FM transmitter from the fixed monitoring equipment

Spectrum Occupancy Report

Measurement Parameters

Monitoring Station		**Data**	
Name:	**FMU308w_100305**	**Type:**	**FCO 5**
Lattitude:	**89.624267578125 °**	**Time Interval:**	**5 min**
Longitude:	**27.4746971130371 °**	**Channel Sets:**	**FM**
Receiver:	**LS-RX-08-T**		

Measurement		**Receiver Settings**	
Name:	**fm test**	**Attenuation:**	**0 dB**

Monitoring Unit:	**FMU308w_100305**	**Analysis:**	**Start Time:**	**9/29/2023 3:20:00 AM**	
Data Type:	**FCO 5**		**End Time:**	**9/29/2023 3:45:00 AM**	
Mode:	**Frequency Range**		**Duration:**	**25 Minutes 0 Second**	

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S1	85.01 MHz	25.00 kHz	0	0	0
S2	85.04 MHz	25.00 kHz	0	0	0
S3	85.06 MHz	25.00 kHz	0	0	0
S4	85.09 MHz	25.00 kHz	0	0	0
S5	85.11 MHz	25.00 kHz	0	0	0
S6	85.14 MHz	25.00 kHz	0	0	0
S7	85.16 MHz	25.00 kHz	0	0	0
S8	85.19 MHz	25.00 kHz	0	0	0
S9	85.21 MHz	25.00 kHz	0	0	0
S10	85.24 MHz	25.00 kHz	0	0	0
S11	85.26 MHz	25.00 kHz	0	0	0
S12	85.29 MHz	25.00 kHz	0	0	0

S13	**85.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S14	**85.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S15	**85.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S16	**85.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S17	**85.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S18	**85.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S19	**85.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S20	**85.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S21	**85.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S22	**85.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S23	**85.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S24	**85.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S25	**85.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S26	**85.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S27	**85.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S28	**85.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S29	**85.71 MHz**	**25.00 kHz**	**0**	**0**	**0**

S30	85.74 MHz	25.00 kHz	0	0	0
S31	85.76 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S32	85.79 MHz	25.00 kHz	0	0	0
S33	85.81 MHz	25.00 kHz	0	0	0
S34	85.84 MHz	25.00 kHz	0	0	0
S35	85.86 MHz	25.00 kHz	0	0	0
S36	85.89 MHz	25.00 kHz	0	0	0
S37	85.91 MHz	25.00 kHz	0	0	0
S38	85.94 MHz	25.00 kHz	0	0	0

S39	**85.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S40	**85.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S41	**86.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S42	**86.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S43	**86.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S44	**86.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S45	**86.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S46	**86.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S47	**86.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S48	**86.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S49	**86.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S50	**86.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S51	**86.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S52	**86.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S53	**86.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S54	**86.34 MHz**	**25.00 kHz**	**0**	**0**	**0**

S55	86.36 MHz	25.00 kHz	0	0	0
S56	86.39 MHz	25.00 kHz	0	0	0
S57	86.41 MHz	25.00 kHz	0	0	0
S58	86.44 MHz	25.00 kHz	0	0	0
S59	86.46 MHz	25.00 kHz	0	0	0
S60	86.49 MHz	25.00 kHz	0	0	0
S61	86.51 MHz	25.00 kHz	0	0	0
S62	86.54 MHz	25.00 kHz	0	0	0

Monitoring Site:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second
Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S63	86.56 MHz	25.00 kHz	0	0	0
S64	86.59 MHz	25.00 kHz	0	0	0
S65	86.61 MHz	25.00 kHz	0	0	0

S66	**86.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S67	**86.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S68	**86.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S69	**86.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S70	**86.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S71	**86.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S72	**86.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S73	**86.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S74	**86.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S75	**86.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S76	**86.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S77	**86.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S78	**86.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S79	**86.96 MHz**	**25.00 kHz**	**0**	**0**	**0**

S80	**86.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S81	**87.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S82	**87.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S83	**87.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S84	**87.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S85	**87.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S86	**87.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S87	**87.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S88	**87.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S89	**87.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S90	**87.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S91	**87.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S92	**87.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S93	**87.31 MHz**	**25.00 kHz**	**0**	**0**	**0**

Monitoring Unit:	**FMU308w_100305**	**Analysis:**	**Start Time:**	**9/29/2023 3:20:00 AM**
Data Type:	**FCO 5**		**End Time:**	**9/29/2023 3:45:00 AM**

Mode:	Frequency Range		Duration:	25 Minutes 0 Second	
Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S94	87.34 MHz	25.00 kHz	0	0	0
S95	87.36 MHz	25.00 kHz	0	0	0
S96	87.39 MHz	25.00 kHz	0	0	0
S97	87.41 MHz	25.00 kHz	0	0	0
S98	87.44 MHz	25.00 kHz	0	0	0
S99	87.46 MHz	25.00 kHz	0	0	0
S100	87.49 MHz	25.00 kHz	0	0	0
S101	87.51 MHz	25.00 kHz	0	0	0
S102	87.54 MHz	25.00 kHz	0	0	0
S103	87.56 MHz	25.00 kHz	0	0	0

S104	**87.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S105	**87.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S106	**87.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S107	**87.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S108	**87.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S109	**87.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S110	**87.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S111	**87.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S112	**87.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S113	**87.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S114	**87.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S115	**87.86 MHz**	**25.00 kHz**	**0**	**0**	**0**

S116	**87.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S117	**87.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S118	**87.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S119	**87.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S120	**87.99 MHz**	**25.00 kHz**	**3**	**2**	**1**
S121	**88.01 MHz**	**25.00 kHz**	**7**	**5**	**3**
S122	**88.04 MHz**	**25.00 kHz**	**17**	**11**	**8**
S123	**88.06 MHz**	**25.00 kHz**	**52**	**48**	**45**
S124	**88.09 MHz**	**25.00 kHz**	**80**	**78**	**76**

Monitoring Unit:	**FMU308w_100305**	**Analysis:**	**Start Time:**	**9/29/2023 3:20:00 AM**

Data Type:	**FCO 5**	**End Time:**	**9/29/2023 3:45:00 AM**
Mode:	**Frequency Range**	**Duration:**	**25 Minutes 0 Second**

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S125	88.11 MHz	25.00 kHz	86	85	84
S126	88.14 MHz	25.00 kHz	70	68	66
S127	88.16 MHz	25.00 kHz	34	23	17
S128	88.19 MHz	25.00 kHz	14	9	6
S129	88.21 MHz	25.00 kHz	4	3	2
S130	88.24 MHz	25.00 kHz	1	1	1
S131	88.26 MHz	25.00 kHz	1	0	0
S132	88.29 MHz	25.00 kHz	0	0	0

S133	**88.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S134	**88.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S135	**88.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S136	**88.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S137	**88.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S138	**88.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S139	**88.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S140	**88.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S141	**88.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S142	**88.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S143	**88.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S144	**88.59 MHz**	**25.00 kHz**	**0**	**0**	**0**

S145	88.61 MHz	25.00 kHz	0	0	0
S146	88.64 MHz	25.00 kHz	0	0	0
S147	88.66 MHz	25.00 kHz	0	0	0
S148	88.69 MHz	25.00 kHz	0	0	0
S149	88.71 MHz	25.00 kHz	0	0	0
S150	88.74 MHz	25.00 kHz	0	0	0
S151	88.76 MHz	25.00 kHz	0	0	0
S152	88.79 MHz	25.00 kHz	0	0	0
S153	88.81 MHz	25.00 kHz	0	0	0
S154	88.84 MHz	25.00 kHz	0	0	0
S155	88.86 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM

Data Type:	**FCO 5**		**End Time:**	**9/29/2023 3:45:00 AM**	
Mode:	**Frequency Range**		**Duration:**	**25 Minutes 0 Second**	
Channel Name	**Main Frequency**	**Bandwidth**	**Occupancy [%]**		
			Max	**Avg**	**Min**
S156	**88.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S157	**88.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S158	**88.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S159	**88.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S160	**88.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S161	**89.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S162	**89.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S163	**89.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S164	**89.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S165	**89.11 MHz**	**25.00 kHz**	**0**	**0**	**0**

S166	**89.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S167	**89.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S168	**89.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S169	**89.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S170	**89.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S171	**89.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S172	**89.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S173	**89.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S174	**89.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S175	**89.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S176	**89.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S177	**89.41 MHz**	**25.00 kHz**	**0**	**0**	**0**

S178	89.44 MHz	25.00 kHz	0	0	0
S179	89.46 MHz	25.00 kHz	0	0	0
S180	89.49 MHz	25.00 kHz	0	0	0
S181	89.51 MHz	25.00 kHz	0	0	0
S182	89.54 MHz	25.00 kHz	0	0	0
S183	89.56 MHz	25.00 kHz	0	0	0
S184	89.59 MHz	25.00 kHz	0	0	0
S185	89.61 MHz	25.00 kHz	0	0	0
S186	89.64 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range		Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S187	89.66 MHz	25.00 kHz	0	0	0
S188	89.69 MHz	25.00 kHz	0	0	0
S189	89.71 MHz	25.00 kHz	0	0	0
S190	89.74 MHz	25.00 kHz	0	0	0
S191	89.76 MHz	25.00 kHz	0	0	0
S192	89.79 MHz	25.00 kHz	0	0	0
S193	89.81 MHz	25.00 kHz	0	0	0
S194	89.84 MHz	25.00 kHz	0	0	0
S195	89.86 MHz	25.00 kHz	0	0	0
S196	89.89 MHz	25.00 kHz	0	0	0
S197	89.91 MHz	25.00 kHz	0	0	0

S198	**89.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S199	**89.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S200	**89.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S201	**90.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S202	**90.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S203	**90.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S204	**90.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S205	**90.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S206	**90.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S207	**90.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S208	**90.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S209	**90.21 MHz**	**25.00 kHz**	**0**	**0**	**0**

S210	90.24 MHz	25.00 kHz	0	0	0
S211	90.26 MHz	25.00 kHz	0	0	0
S212	90.29 MHz	25.00 kHz	0	0	0
S213	90.31 MHz	25.00 kHz	0	0	0
S214	90.34 MHz	25.00 kHz	0	0	0
S215	90.36 MHz	25.00 kHz	0	0	0
S216	90.39 MHz	25.00 kHz	0	0	0
S217	90.41 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min

S218	**90.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S219	**90.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S220	**90.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S221	**90.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S222	**90.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S223	**90.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S224	**90.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S225	**90.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S226	**90.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S227	**90.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S228	**90.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S229	**90.71 MHz**	**25.00 kHz**	**0**	**0**	**0**

S230	**90.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S231	**90.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S232	**90.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S233	**90.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S234	**90.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S235	**90.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S236	**90.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S237	**90.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S238	**90.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S239	**90.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S240	**90.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S241	**91.01 MHz**	**25.00 kHz**	**0**	**0**	**0**

S242	91.04 MHz	25.00 kHz	0	0	0
S243	91.06 MHz	25.00 kHz	0	0	0
S244	91.09 MHz	25.00 kHz	0	0	0
S245	91.11 MHz	25.00 kHz	0	0	0
S246	91.14 MHz	25.00 kHz	0	0	0
S247	91.16 MHz	25.00 kHz	0	0	0
S248	91.19 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S249	91.21 MHz	25.00 kHz	0	0	0

S250	**91.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S251	**91.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S252	**91.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S253	**91.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S254	**91.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S255	**91.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S256	**91.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S257	**91.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S258	**91.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S259	**91.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S260	**91.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S261	**91.51 MHz**	**25.00 kHz**	**0**	**0**	**0**

S262	**91.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S263	**91.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S264	**91.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S265	**91.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S266	**91.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S267	**91.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S268	**91.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S269	**91.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S270	**91.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S271	**91.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S272	**91.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S273	**91.81 MHz**	**25.00 kHz**	**0**	**0**	**0**

S274	91.84 MHz	25.00 kHz	0	0	0
S275	91.86 MHz	25.00 kHz	0	0	0
S276	91.89 MHz	25.00 kHz	2	2	1
S277	91.91 MHz	25.00 kHz	6	6	5
S278	91.94 MHz	25.00 kHz	13	12	10
S279	91.96 MHz	25.00 kHz	50	48	46

Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range		Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S280	91.99 MHz	25.00 kHz	83	83	82
S281	92.01 MHz	25.00 kHz	83	82	81
S282	92.04 MHz	25.00 kHz	38	36	35
S283	92.06 MHz	25.00 kHz	14	13	11
S284	92.09 MHz	25.00 kHz	8	7	5

S285	**92.11 MHz**	**25.00 kHz**	**4**	**3**	**2**
S286	**92.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S287	**92.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S288	**92.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S289	**92.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S290	**92.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S291	**92.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S292	**92.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S293	**92.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S294	**92.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S295	**92.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S296	**92.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S297	**92.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S298	**92.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S299	**92.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S300	**92.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S301	**92.51 MHz**	**25.00 kHz**	**0**	**0**	**0**

S302	92.54 MHz	25.00 kHz	0	0	0
S303	92.56 MHz	25.00 kHz	0	0	0
S304	92.59 MHz	25.00 kHz	0	0	0
S305	92.61 MHz	25.00 kHz	0	0	0
S306	92.64 MHz	25.00 kHz	0	0	0
S307	92.66 MHz	25.00 kHz	0	0	0
S308	92.69 MHz	25.00 kHz	0	0	0
S309	92.71 MHz	25.00 kHz	0	0	0
S310	92.74 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	
Start Time:	9/29/2023 3:20:00 AM		
Data Type:	FCO 5	End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range	Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S311	92.76 MHz	25.00 kHz	0	0	0
S312	92.79 MHz	25.00 kHz	0	0	0

S313	**92.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S314	**92.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S315	**92.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S316	**92.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S317	**92.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S318	**92.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S319	**92.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S320	**92.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S321	**93.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S322	**93.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S323	**93.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S324	**93.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S325	**93.11 MHz**	**25.00 kHz**	**0**	**0**	**0**

S326	**93.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S327	**93.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S328	**93.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S329	**93.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S330	**93.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S331	**93.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S332	**93.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S333	**93.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S334	**93.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S335	**93.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S336	**93.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S337	**93.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S338	**93.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S339	**93.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S340	**93.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S341	**93.51 MHz**	**25.00 kHz**	**0**	**0**	**0**

Monitoring Unit:	**FMU308w_100305**	**Analysis:**	**Start Time:**	**9/29/2023 3:20:00 AM**	
Data Type:	**FCO 5**		**End Time:**	**9/29/2023 3:45:00 AM**	
Mode:	**Frequency Range**		**Duration:**	**25 Minutes 0 Second**	

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S342	93.54 MHz	25.00 kHz	0	0	0
S343	93.56 MHz	25.00 kHz	0	0	0
S344	93.59 MHz	25.00 kHz	0	0	0
S345	93.61 MHz	25.00 kHz	0	0	0
S346	93.64 MHz	25.00 kHz	0	0	0
S347	93.66 MHz	25.00 kHz	0	0	0
S348	93.69 MHz	25.00 kHz	0	0	0
S349	93.71 MHz	25.00 kHz	0	0	0
S350	93.74 MHz	25.00 kHz	0	0	0
S351	93.76 MHz	25.00 kHz	0	0	0
S352	93.79 MHz	25.00 kHz	0	0	0
S353	93.81 MHz	25.00 kHz	0	0	0

S354	**93.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S355	**93.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S356	**93.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S357	**93.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S358	**93.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S359	**93.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S360	**93.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S361	**94.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S362	**94.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S363	**94.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S364	**94.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S365	**94.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S366	**94.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S367	**94.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S368	**94.19 MHz**	**25.00 kHz**	**0**	**0**	**0**

S369	94.21 MHz	25.00 kHz	0	0	0
S370	94.24 MHz	25.00 kHz	0	0	0
S371	94.26 MHz	25.00 kHz	0	0	0
S372	94.29 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S373	94.31 MHz	25.00 kHz	0	0	0
S374	94.34 MHz	25.00 kHz	0	0	0
S375	94.36 MHz	25.00 kHz	0	0	0
S376	94.39 MHz	25.00 kHz	0	0	0
S377	94.41 MHz	25.00 kHz	0	0	0
S378	94.44 MHz	25.00 kHz	0	0	0
S379	94.46 MHz	25.00 kHz	0	0	0

S380	**94.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S381	**94.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S382	**94.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S383	**94.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S384	**94.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S385	**94.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S386	**94.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S387	**94.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S388	**94.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S389	**94.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S390	**94.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S391	**94.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S392	**94.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S393	**94.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S394	**94.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S395	**94.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S396	**94.89 MHz**	**25.00 kHz**	**0**	**0**	**0**

S397	94.91 MHz	25.00 kHz	0	0	0
S398	94.94 MHz	25.00 kHz	0	0	0
S399	94.96 MHz	25.00 kHz	0	0	0
S400	94.99 MHz	25.00 kHz	0	0	0
S401	95.01 MHz	25.00 kHz	0	0	0
S402	95.04 MHz	25.00 kHz	0	0	0
S403	95.06 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S404	95.09 MHz	25.00 kHz	0	0	0
S405	95.11 MHz	25.00 kHz	0	0	0
S406	95.14 MHz	25.00 kHz	0	0	0

S407	**95.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S408	**95.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S409	**95.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S410	**95.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S411	**95.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S412	**95.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S413	**95.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S414	**95.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S415	**95.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S416	**95.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S417	**95.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S418	**95.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S419	**95.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S420	**95.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S421	**95.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S422	**95.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S423	**95.56 MHz**	**25.00 kHz**	**0**	**0**	**0**

S424	95.59 MHz	25.00 kHz	0	0	0
S425	95.61 MHz	25.00 kHz	0	0	0
S426	95.64 MHz	25.00 kHz	0	0	0
S427	95.66 MHz	25.00 kHz	0	0	0
S428	95.69 MHz	25.00 kHz	0	0	0
S429	95.71 MHz	25.00 kHz	0	0	0
S430	95.74 MHz	25.00 kHz	0	0	0
S431	95.76 MHz	25.00 kHz	0	0	0
S432	95.79 MHz	25.00 kHz	0	0	0
S433	95.81 MHz	25.00 kHz	0	0	0
S434	95.84 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second
Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min

S435	**95.86 MHz**	**25.00 kHz**	**2**	**1**	**0**
S436	**95.89 MHz**	**25.00 kHz**	**4**	**3**	**1**
S437	**95.91 MHz**	**25.00 kHz**	**10**	**7**	**3**
S438	**95.94 MHz**	**25.00 kHz**	**29**	**18**	**11**
S439	**95.96 MHz**	**25.00 kHz**	**70**	**69**	**66**
S440	**95.99 MHz**	**25.00 kHz**	**95**	**91**	**89**
S441	**96.01 MHz**	**25.00 kHz**	**98**	**96**	**94**
S442	**96.04 MHz**	**25.00 kHz**	**96**	**93**	**91**
S443	**96.06 MHz**	**25.00 kHz**	**89**	**86**	**83**
S444	**96.09 MHz**	**25.00 kHz**	**50**	**39**	**31**
S445	**96.11 MHz**	**25.00 kHz**	**20**	**13**	**6**
S446	**96.14 MHz**	**25.00 kHz**	**9**	**5**	**2**
S447	**96.16 MHz**	**25.00 kHz**	**3**	**2**	**1**
S448	**96.19 MHz**	**25.00 kHz**	**1**	**1**	**0**
S449	**96.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S450	**96.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S451	**96.26 MHz**	**25.00 kHz**	**0**	**0**	**0**

S452	96.29 MHz	25.00 kHz	0	0	0
S453	96.31 MHz	25.00 kHz	0	0	0
S454	96.34 MHz	25.00 kHz	0	0	0
S455	96.36 MHz	25.00 kHz	0	0	0
S456	96.39 MHz	25.00 kHz	0	0	0
S457	96.41 MHz	25.00 kHz	0	0	0
S458	96.44 MHz	25.00 kHz	0	0	0
S459	96.46 MHz	25.00 kHz	0	0	0
S460	96.49 MHz	25.00 kHz	0	0	0
S461	96.51 MHz	25.00 kHz	0	0	0
S462	96.54 MHz	25.00 kHz	0	0	0
S463	96.56 MHz	25.00 kHz	0	0	0
S464	96.59 MHz	25.00 kHz	0	0	0
S465	96.61 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM

Mode:	Frequency Range		Duration:	25 Minutes 0 Second	
Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S466	96.64 MHz	25.00 kHz	0	0	0
S467	96.66 MHz	25.00 kHz	0	0	0
S468	96.69 MHz	25.00 kHz	0	0	0
S469	96.71 MHz	25.00 kHz	0	0	0
S470	96.74 MHz	25.00 kHz	0	0	0
S471	96.76 MHz	25.00 kHz	0	0	0
S472	96.79 MHz	25.00 kHz	0	0	0
S473	96.81 MHz	25.00 kHz	0	0	0
S474	96.84 MHz	25.00 kHz	0	0	0
S475	96.86 MHz	25.00 kHz	0	0	0
S476	96.89 MHz	25.00 kHz	0	0	0
S477	96.91 MHz	25.00 kHz	0	0	0
S478	96.94 MHz	25.00 kHz	0	0	0

S479	**96.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S480	**96.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S481	**97.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S482	**97.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S483	**97.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S484	**97.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S485	**97.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S486	**97.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S487	**97.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S488	**97.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S489	**97.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S490	**97.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S491	**97.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S492	**97.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S493	**97.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S494	**97.34 MHz**	**25.00 kHz**	**0**	**0**	**0**

S495	97.36 MHz	25.00 kHz	0	0	0
S496	97.39 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S497	97.41 MHz	25.00 kHz	0	0	0
S498	97.44 MHz	25.00 kHz	0	0	0
S499	97.46 MHz	25.00 kHz	0	0	0
S500	97.49 MHz	25.00 kHz	0	0	0
S501	97.51 MHz	25.00 kHz	0	0	0
S502	97.54 MHz	25.00 kHz	0	0	0
S503	97.56 MHz	25.00 kHz	0	0	0
S504	97.59 MHz	25.00 kHz	0	0	0

S505	**97.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S506	**97.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S507	**97.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S508	**97.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S509	**97.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S510	**97.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S511	**97.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S512	**97.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S513	**97.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S514	**97.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S515	**97.86 MHz**	**25.00 kHz**	**2**	**1**	**0**
S516	**97.89 MHz**	**25.00 kHz**	**4**	**1**	**0**
S517	**97.91 MHz**	**25.00 kHz**	**11**	**4**	**1**
S518	**97.94 MHz**	**25.00 kHz**	**39**	**25**	**18**
S519	**97.96 MHz**	**25.00 kHz**	**85**	**81**	**78**
S520	**97.99 MHz**	**25.00 kHz**	**99**	**96**	**95**
S521	**98.01 MHz**	**25.00 kHz**	**100**	**99**	**99**

S522	98.04 MHz	25.00 kHz	99	99	99
S523	98.06 MHz	25.00 kHz	93	90	87
S524	98.09 MHz	25.00 kHz	57	43	36
S525	98.11 MHz	25.00 kHz	19	10	5
S526	98.14 MHz	25.00 kHz	6	2	0
S527	98.16 MHz	25.00 kHz	2	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range		Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S528	98.19 MHz	25.00 kHz	1	0	0
S529	98.21 MHz	25.00 kHz	0	0	0
S530	98.24 MHz	25.00 kHz	0	0	0
S531	98.26 MHz	25.00 kHz	0	0	0
S532	98.29 MHz	25.00 kHz	0	0	0

S533	**98.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S534	**98.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S535	**98.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S536	**98.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S537	**98.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S538	**98.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S539	**98.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S540	**98.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S541	**98.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S542	**98.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S543	**98.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S544	**98.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S545	**98.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S546	**98.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S547	**98.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S548	**98.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S549	**98.71 MHz**	**25.00 kHz**	**0**	**0**	**0**

S550	98.74 MHz	25.00 kHz	0	0	0
S551	98.76 MHz	25.00 kHz	0	0	0
S552	98.79 MHz	25.00 kHz	0	0	0
S553	98.81 MHz	25.00 kHz	0	0	0
S554	98.84 MHz	25.00 kHz	0	0	0
S555	98.86 MHz	25.00 kHz	0	0	0
S556	98.89 MHz	25.00 kHz	0	0	0
S557	98.91 MHz	25.00 kHz	0	0	0
S558	98.94 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	
Data Type:	FCO 5	Start Time:	9/29/2023 3:20:00 AM
Mode:	Frequency Range	End Time:	9/29/2023 3:45:00 AM
		Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S559	98.96 MHz	25.00 kHz	0	0	0

S560	**98.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S561	**99.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S562	**99.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S563	**99.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S564	**99.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S565	**99.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S566	**99.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S567	**99.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S568	**99.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S569	**99.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S570	**99.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S571	**99.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S572	**99.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S573	**99.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S574	**99.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S575	**99.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S576	**99.39 MHz**	**25.00 kHz**	**0**	**0**	**0**

S577	99.41 MHz	25.00 kHz	0	0	0
S578	99.44 MHz	25.00 kHz	0	0	0
S579	99.46 MHz	25.00 kHz	0	0	0
S580	99.49 MHz	25.00 kHz	0	0	0
S581	99.51 MHz	25.00 kHz	0	0	0
S582	99.54 MHz	25.00 kHz	0	0	0
S583	99.56 MHz	25.00 kHz	0	0	0
S584	99.59 MHz	25.00 kHz	0	0	0
S585	99.61 MHz	25.00 kHz	0	0	0
S586	99.64 MHz	25.00 kHz	0	0	0
S587	99.66 MHz	25.00 kHz	0	0	0
S588	99.69 MHz	25.00 kHz	0	0	0
S589	99.71 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range		Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S590	99.74 MHz	25.00 kHz	0	0	0
S591	99.76 MHz	25.00 kHz	4	2	1
S592	99.79 MHz	25.00 kHz	13	7	4
S593	99.81 MHz	25.00 kHz	25	15	10
S594	99.84 MHz	25.00 kHz	48	34	23
S595	99.86 MHz	25.00 kHz	76	70	64
S596	99.89 MHz	25.00 kHz	94	92	89
S597	99.91 MHz	25.00 kHz	97	95	92
S598	99.94 MHz	25.00 kHz	94	92	88
S599	99.96 MHz	25.00 kHz	85	80	76
S600	99.99 MHz	25.00 kHz	62	47	35
S601	100.01 MHz	25.00 kHz	35	21	13
S602	100.04 MHz	25.00 kHz	11	6	4
S603	100.06 MHz	25.00 kHz	3	1	1

S604	**100.09 MHz**	**25.00 kHz**	**1**	**0**	**0**
S605	**100.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S606	**100.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S607	**100.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S608	**100.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S609	**100.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S610	**100.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S611	**100.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S612	**100.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S613	**100.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S614	**100.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S615	**100.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S616	**100.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S617	**100.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S618	**100.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S619	**100.46 MHz**	**25.00 kHz**	**0**	**0**	**0**

S620	100.49 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S621	100.51 MHz	25.00 kHz	0	0	0
S622	100.54 MHz	25.00 kHz	0	0	0
S623	100.56 MHz	25.00 kHz	0	0	0
S624	100.59 MHz	25.00 kHz	0	0	0
S625	100.61 MHz	25.00 kHz	0	0	0
S626	100.64 MHz	25.00 kHz	0	0	0
S627	100.66 MHz	25.00 kHz	0	0	0
S628	100.69 MHz	25.00 kHz	0	0	0
S629	100.71 MHz	25.00 kHz	0	0	0
S630	100.74 MHz	25.00 kHz	0	0	0

S631	**100.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S632	**100.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S633	**100.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S634	**100.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S635	**100.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S636	**100.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S637	**100.91 MHz**	**25.00 kHz**	**1**	**0**	**0**
S638	**100.94 MHz**	**25.00 kHz**	**3**	**2**	**1**
S639	**100.96 MHz**	**25.00 kHz**	**24**	**21**	**15**
S640	**100.99 MHz**	**25.00 kHz**	**69**	**67**	**64**
S641	**101.01 MHz**	**25.00 kHz**	**96**	**93**	**91**
S642	**101.04 MHz**	**25.00 kHz**	**98**	**97**	**95**
S643	**101.06 MHz**	**25.00 kHz**	**66**	**64**	**63**
S644	**101.09 MHz**	**25.00 kHz**	**8**	**7**	**4**
S645	**101.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S646	**101.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S647	**101.16 MHz**	**25.00 kHz**	**0**	**0**	**0**

S648	101.19 MHz	25.00 kHz	0	0	0
S649	101.21 MHz	25.00 kHz	0	0	0
S650	101.24 MHz	25.00 kHz	0	0	0
S651	101.26 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	
Data Type:	FCO 5	Start Time:	9/29/2023 3:20:00 AM
Mode:	Frequency Range	End Time:	9/29/2023 3:45:00 AM
		Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S652	101.29 MHz	25.00 kHz	0	0	0
S653	101.31 MHz	25.00 kHz	0	0	0
S654	101.34 MHz	25.00 kHz	0	0	0
S655	101.36 MHz	25.00 kHz	0	0	0
S656	101.39 MHz	25.00 kHz	0	0	0

S657	**101.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S658	**101.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S659	**101.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S660	**101.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S661	**101.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S662	**101.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S663	**101.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S664	**101.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S665	**101.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S666	**101.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S667	**101.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S668	**101.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S669	**101.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S670	**101.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S671	**101.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S672	**101.79 MHz**	**25.00 kHz**	**0**	**0**	**0**

S673	101.81 MHz	25.00 kHz	0	0	0
S674	101.84 MHz	25.00 kHz	0	0	0
S675	101.86 MHz	25.00 kHz	0	0	0
S676	101.89 MHz	25.00 kHz	0	0	0
S677	101.91 MHz	25.00 kHz	0	0	0
S678	101.94 MHz	25.00 kHz	0	0	0
S679	101.96 MHz	25.00 kHz	0	0	0
S680	101.99 MHz	25.00 kHz	0	0	0
S681	102.01 MHz	25.00 kHz	0	0	0
S682	102.04 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S683	102.06 MHz	25.00 kHz	0	0	0

S684	**102.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S685	**102.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S686	**102.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S687	**102.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S688	**102.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S689	**102.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S690	**102.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S691	**102.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S692	**102.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S693	**102.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S694	**102.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S695	**102.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S696	**102.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S697	**102.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S698	**102.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S699	**102.46 MHz**	**25.00 kHz**	**0**	**0**	**0**

S700	**102.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S701	**102.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S702	**102.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S703	**102.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S704	**102.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S705	**102.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S706	**102.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S707	**102.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S708	**102.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S709	**102.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S710	**102.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S711	**102.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S712	**102.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S713	**102.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
			Max	**Avg**	**Min**

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM	
Mode:	Frequency Range		Duration:	25 Minutes 0 Second	
Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM	
S714	102.84 MHz	25.00 kHz	0	0	0
S715	102.86 MHz	25.00 kHz	0	0	0
S716	102.89 MHz	25.00 kHz	0	0	0
S717	102.91 MHz	25.00 kHz	0	0	0
S718	102.94 MHz	25.00 kHz	0	0	0
S719	102.96 MHz	25.00 kHz	0	0	0
S720	102.99 MHz	25.00 kHz	0	0	0
S721	103.01 MHz	25.00 kHz	0	0	0
S722	103.04 MHz	25.00 kHz	0	0	0
S723	103.06 MHz	25.00 kHz	0	0	0
S724	103.09 MHz	25.00 kHz	0	0	0
S725	103.11 MHz	25.00 kHz	0	0	0
S726	103.14 MHz	25.00 kHz	0	0	0

S727	**103.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S728	**103.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S729	**103.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S730	**103.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S731	**103.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S732	**103.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S733	**103.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S734	**103.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S735	**103.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S736	**103.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S737	**103.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S738	**103.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S739	**103.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S740	**103.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S741	**103.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S742	**103.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S743	**103.56 MHz**	**25.00 kHz**	**0**	**0**	**0**

S744	103.59 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305	Analysis:	Start Time:	9/29/2023 3:20:00 AM	
Data Type:	FCO 5		End Time:	9/29/2023 3:45:00 AM	
Mode:	Frequency Range		Duration:	25 Minutes 0 Second	

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S745	103.61 MHz	25.00 kHz	0	0	0
S746	103.64 MHz	25.00 kHz	0	0	0
S747	103.66 MHz	25.00 kHz	0	0	0
S748	103.69 MHz	25.00 kHz	0	0	0
S749	103.71 MHz	25.00 kHz	0	0	0
S750	103.74 MHz	25.00 kHz	0	0	0

S751	**103.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S752	**103.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S753	**103.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S754	**103.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S755	**103.86 MHz**	**25.00 kHz**	**5**	**4**	**3**
S756	**103.89 MHz**	**25.00 kHz**	**13**	**11**	**9**
S757	**103.91 MHz**	**25.00 kHz**	**22**	**19**	**15**
S758	**103.94 MHz**	**25.00 kHz**	**66**	**58**	**47**
S759	**103.96 MHz**	**25.00 kHz**	**99**	**99**	**99**
S760	**103.99 MHz**	**25.00 kHz**	**100**	**100**	**100**
S761	**104.01 MHz**	**25.00 kHz**	**100**	**100**	**100**
S762	**104.04 MHz**	**25.00 kHz**	**100**	**100**	**100**
S763	**104.06 MHz**	**25.00 kHz**	**99**	**99**	**99**
S764	**104.09 MHz**	**25.00 kHz**	**50**	**44**	**34**
S765	**104.11 MHz**	**25.00 kHz**	**20**	**17**	**13**
S766	**104.14 MHz**	**25.00 kHz**	**10**	**9**	**7**
S767	**104.16 MHz**	**25.00 kHz**	**4**	**3**	**2**

S768	104.19 MHz	25.00 kHz	0	0	0
S769	104.21 MHz	25.00 kHz	0	0	0
S770	104.24 MHz	25.00 kHz	0	0	0
S771	104.26 MHz	25.00 kHz	0	0	0
S772	104.29 MHz	25.00 kHz	0	0	0
S773	104.31 MHz	25.00 kHz	0	0	0
S774	104.34 MHz	25.00 kHz	0	0	0
S775	104.36 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w_100305		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second
Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S776	104.39 MHz	25.00 kHz	0	0	0
S777	104.41 MHz	25.00 kHz	0	0	0
S778	104.44 MHz	25.00 kHz	0	0	0

S779	**104.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S780	**104.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S781	**104.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S782	**104.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S783	**104.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S784	**104.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S785	**104.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S786	**104.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S787	**104.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S788	**104.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S789	**104.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S790	**104.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S791	**104.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S792	**104.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S793	**104.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S794	**104.84 MHz**	**25.00 kHz**	**0**	**0**	**0**

S795	104.86 MHz	25.00 kHz	5	3	2
S796	104.89 MHz	25.00 kHz	15	10	7
S797	104.91 MHz	25.00 kHz	21	16	12
S798	104.94 MHz	25.00 kHz	29	24	20
S799	104.96 MHz	25.00 kHz	81	76	71
S800	104.99 MHz	25.00 kHz	97	97	96
S801	105.01 MHz	25.00 kHz	99	99	99
S802	105.04 MHz	25.00 kHz	99	98	97
S803	105.06 MHz	25.00 kHz	88	86	80
S804	105.09 MHz	25.00 kHz	54	48	42
S805	105.11 MHz	25.00 kHz	22	17	14
S806	105.14 MHz	25.00 kHz	17	12	9

Monitoring Unit:	FMU308w 10030 5	Analysis: Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5	End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range	Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]

			Max	Avg	Min
S807	105.16 MHz	25.00 kHz	9	6	4
S808	105.19 MHz	25.00 kHz	0	0	0
S809	105.21 MHz	25.00 kHz	0	0	0
S810	105.24 MHz	25.00 kHz	0	0	0
S811	105.26 MHz	25.00 kHz	0	0	0
S812	105.29 MHz	25.00 kHz	0	0	0
S813	105.31 MHz	25.00 kHz	0	0	0
S814	105.34 MHz	25.00 kHz	0	0	0
S815	105.36 MHz	25.00 kHz	0	0	0
S816	105.39 MHz	25.00 kHz	0	0	0
S817	105.41 MHz	25.00 kHz	0	0	0
S818	105.44 MHz	25.00 kHz	0	0	0
S819	105.46 MHz	25.00 kHz	0	0	0
S820	105.49 MHz	25.00 kHz	0	0	0
S821	105.51 MHz	25.00 kHz	0	0	0

S822	**105.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S823	**105.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S824	**105.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S825	**105.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S826	**105.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S827	**105.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S828	**105.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S829	**105.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S830	**105.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S831	**105.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S832	**105.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S833	**105.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S834	**105.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S835	**105.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S836	**105.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S837	**105.91 MHz**	**25.00 kHz**	**0**	**0**	**0**

Monitoring Unit:	**FMU308w 10030 5**	**Analysis:**	**Start Time:**	**9/29/2023 3:20:00 AM**	
Data Type:	**FCO 5**		**End Time:**	**9/29/2023 3:45:00 AM**	
Mode:	**Frequency Range**		**Duration:**	**25 Minutes 0 Second**	

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S838	**105.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S839	**105.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S840	**105.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S841	**106.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S842	**106.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S843	**106.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S844	**106.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S845	**106.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S846	**106.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S847	**106.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S848	**106.19 MHz**	**25.00 kHz**	**0**	**0**	**0**

S849	**106.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S850	**106.24 MHz**	**25.00 kHz**	**0**	**0**	**0**
S851	**106.26 MHz**	**25.00 kHz**	**0**	**0**	**0**
S852	**106.29 MHz**	**25.00 kHz**	**0**	**0**	**0**
S853	**106.31 MHz**	**25.00 kHz**	**0**	**0**	**0**
S854	**106.34 MHz**	**25.00 kHz**	**0**	**0**	**0**
S855	**106.36 MHz**	**25.00 kHz**	**0**	**0**	**0**
S856	**106.39 MHz**	**25.00 kHz**	**0**	**0**	**0**
S857	**106.41 MHz**	**25.00 kHz**	**0**	**0**	**0**
S858	**106.44 MHz**	**25.00 kHz**	**0**	**0**	**0**
S859	**106.46 MHz**	**25.00 kHz**	**0**	**0**	**0**
S860	**106.49 MHz**	**25.00 kHz**	**0**	**0**	**0**
S861	**106.51 MHz**	**25.00 kHz**	**0**	**0**	**0**
S862	**106.54 MHz**	**25.00 kHz**	**0**	**0**	**0**
S863	**106.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S864	**106.59 MHz**	**25.00 kHz**	**0**	**0**	**0**

S865	106.61 MHz	25.00 kHz	0	0	0
S866	106.64 MHz	25.00 kHz	0	0	0
S867	106.66 MHz	25.00 kHz	0	0	0
S868	106.69 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w 10030 5	Analysis:	Start Time: 9/29/2023 3:20:00 AM
Data Type:	FCO 5		End Time: 9/29/2023 3:45:00 AM
Mode:	Frequency Range		Duration: 25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S869	106.71 MHz	25.00 kHz	0	0	0
S870	106.74 MHz	25.00 kHz	0	0	0
S871	106.76 MHz	25.00 kHz	0	0	0
S872	106.79 MHz	25.00 kHz	0	0	0
S873	106.81 MHz	25.00 kHz	0	0	0

S874	**106.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S875	**106.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S876	**106.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S877	**106.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S878	**106.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S879	**106.96 MHz**	**25.00 kHz**	**0**	**0**	**0**
S880	**106.99 MHz**	**25.00 kHz**	**0**	**0**	**0**
S881	**107.01 MHz**	**25.00 kHz**	**0**	**0**	**0**
S882	**107.04 MHz**	**25.00 kHz**	**0**	**0**	**0**
S883	**107.06 MHz**	**25.00 kHz**	**0**	**0**	**0**
S884	**107.09 MHz**	**25.00 kHz**	**0**	**0**	**0**
S885	**107.11 MHz**	**25.00 kHz**	**0**	**0**	**0**
S886	**107.14 MHz**	**25.00 kHz**	**0**	**0**	**0**
S887	**107.16 MHz**	**25.00 kHz**	**0**	**0**	**0**
S888	**107.19 MHz**	**25.00 kHz**	**0**	**0**	**0**
S889	**107.21 MHz**	**25.00 kHz**	**0**	**0**	**0**
S890	**107.24 MHz**	**25.00 kHz**	**0**	**0**	**0**

S891	107.26 MHz	25.00 kHz	0	0	0
S892	107.29 MHz	25.00 kHz	0	0	0
S893	107.31 MHz	25.00 kHz	0	0	0
S894	107.34 MHz	25.00 kHz	0	0	0
S895	107.36 MHz	25.00 kHz	0	0	0
S896	107.39 MHz	25.00 kHz	0	0	0
S898	107.44 MHz	25.00 kHz	0	0	0
S899	107.46 MHz	25.00 kHz	0	0	0

Monitoring Unit:	FMU308w 10030 5		Analysis:	Start Time:	9/29/2023 3:20:00 AM
Data Type:	FCO 5			End Time:	9/29/2023 3:45:00 AM
Mode:	Frequency Range			Duration:	25 Minutes 0 Second

Channel Name	Main Frequency	Bandwidth	Occupancy [%]		
			Max	Avg	Min
S900	107.49 MHz	25.00 kHz	0	0	0
S901	107.51 MHz	25.00 kHz	0	0	0
S902	107.54 MHz	25.00 kHz	0	0	0

S903	**107.56 MHz**	**25.00 kHz**	**0**	**0**	**0**
S904	**107.59 MHz**	**25.00 kHz**	**0**	**0**	**0**
S905	**107.61 MHz**	**25.00 kHz**	**0**	**0**	**0**
S906	**107.64 MHz**	**25.00 kHz**	**0**	**0**	**0**
S907	**107.66 MHz**	**25.00 kHz**	**0**	**0**	**0**
S908	**107.69 MHz**	**25.00 kHz**	**0**	**0**	**0**
S909	**107.71 MHz**	**25.00 kHz**	**0**	**0**	**0**
S910	**107.74 MHz**	**25.00 kHz**	**0**	**0**	**0**
S911	**107.76 MHz**	**25.00 kHz**	**0**	**0**	**0**
S912	**107.79 MHz**	**25.00 kHz**	**0**	**0**	**0**
S913	**107.81 MHz**	**25.00 kHz**	**0**	**0**	**0**
S914	**107.84 MHz**	**25.00 kHz**	**0**	**0**	**0**
S915	**107.86 MHz**	**25.00 kHz**	**0**	**0**	**0**
S916	**107.89 MHz**	**25.00 kHz**	**0**	**0**	**0**
S917	**107.91 MHz**	**25.00 kHz**	**0**	**0**	**0**
S918	**107.94 MHz**	**25.00 kHz**	**0**	**0**	**0**
S919	**107.96 MHz**	**25.00 kHz**	**0**	**0**	**0**

S920	**107.99 MHz**	**25.00 kHz**	**0**	**0**	**0**