

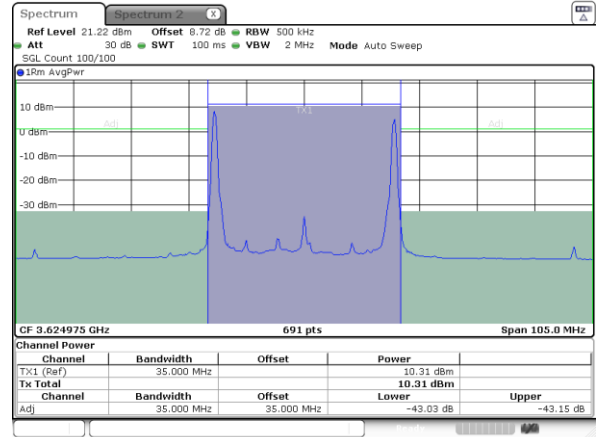
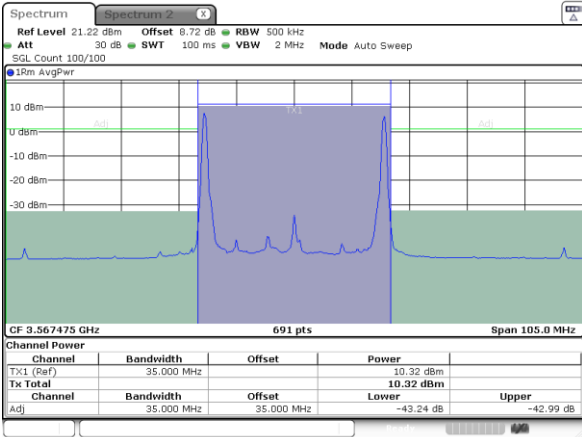


LTE Band 48C / 15MHz+20MHz

256QAM

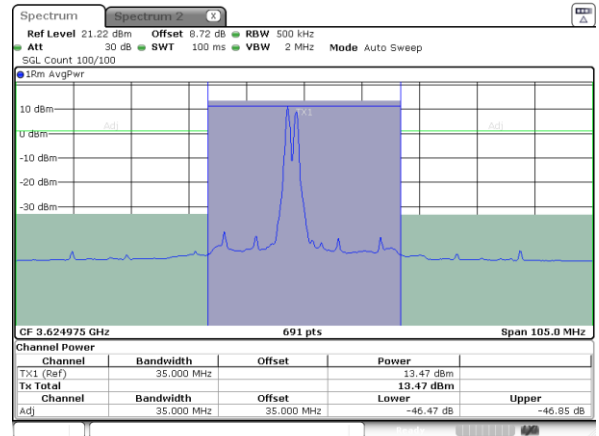
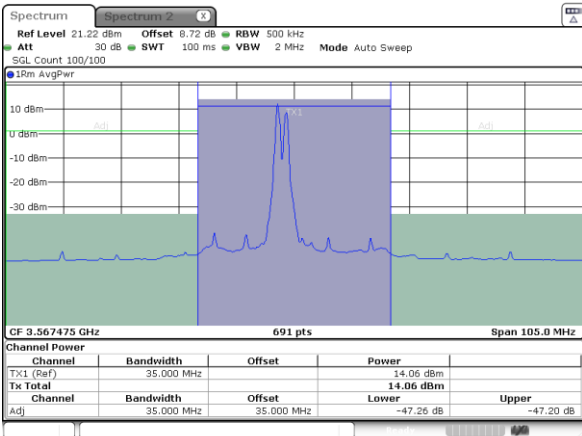
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



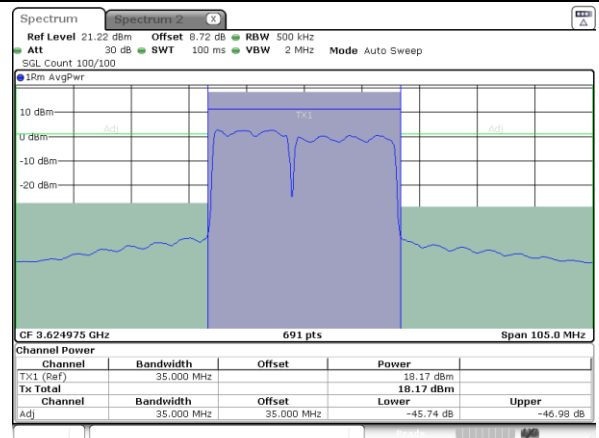
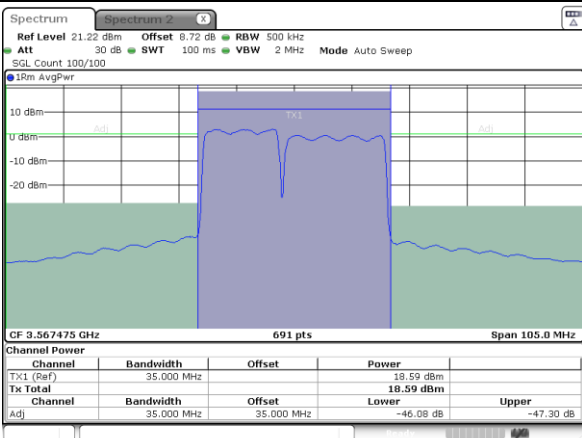
Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



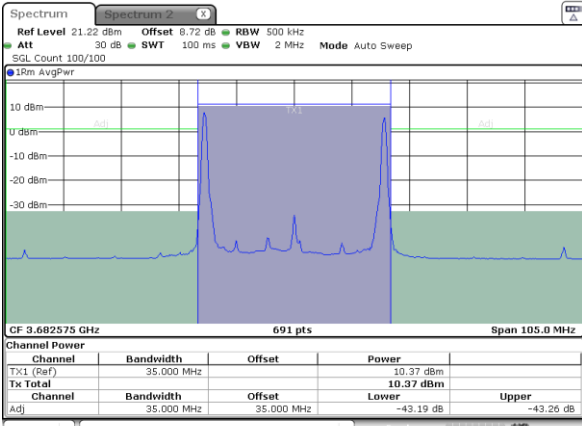


LTE Band 48C / 15MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

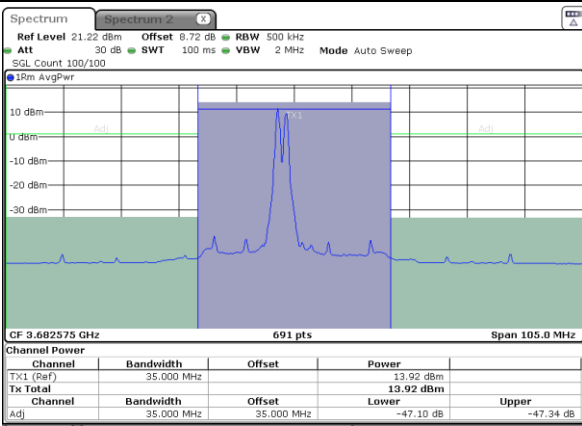
N/A



Date: 18.OCT.2024 12:44:26

Highest Band Edge / 1RB74 and 1RB0

N/A



Date: 18.OCT.2024 12:49:34

Highest Band Edge / Full RB

N/A



Date: 18.OCT.2024 12:43:42

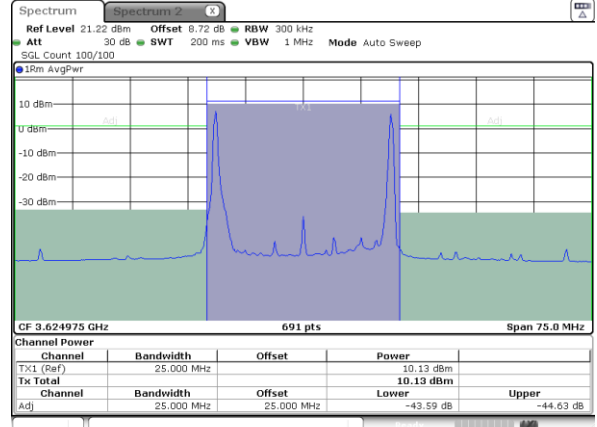
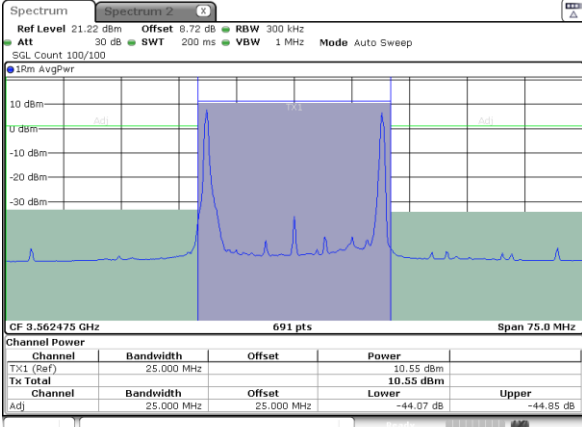


LTE Band 48C/ 20MHz+5MHz

256QAM

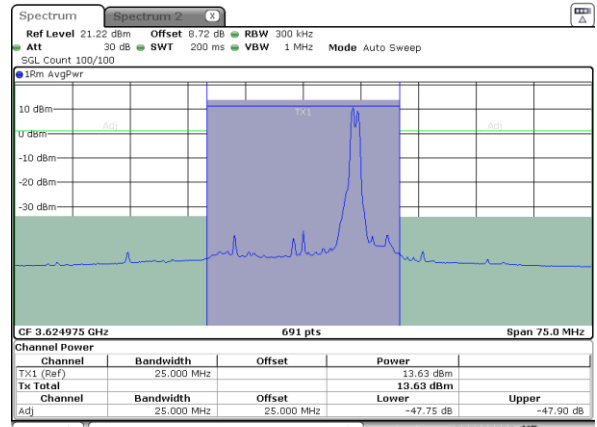
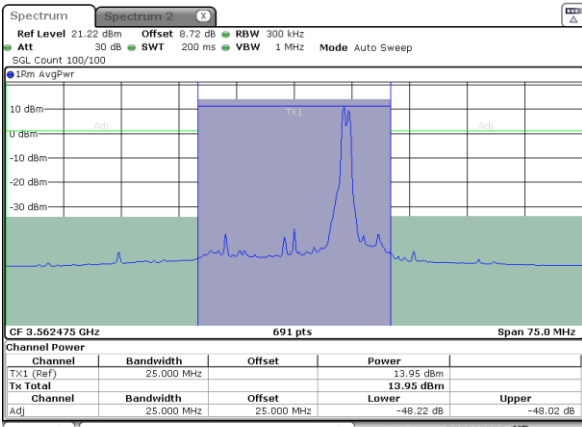
Lowest Band Edge / 1RB0 and 1RB24

Middle Band Edge / 1RB0 and 1RB24



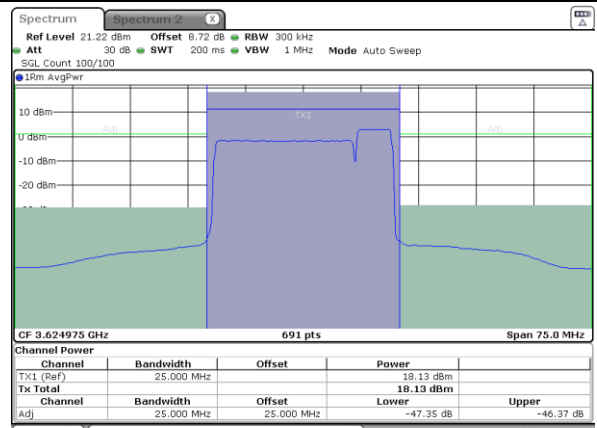
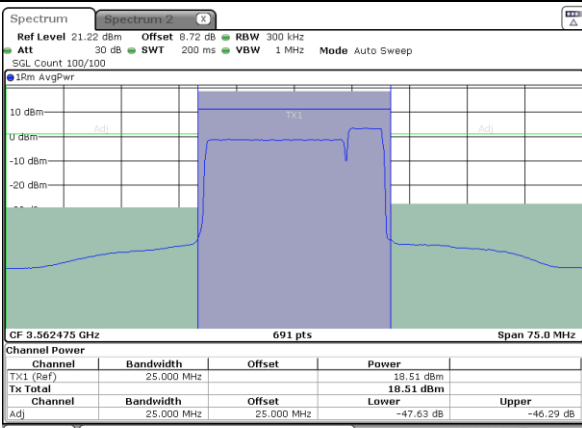
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



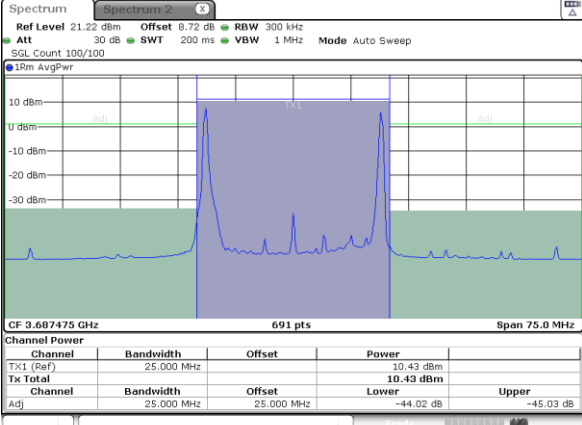


LTE Band 48C / 20MHz+5MHz

256QAM

Highest Band Edge / 1RB0 and 1RB24

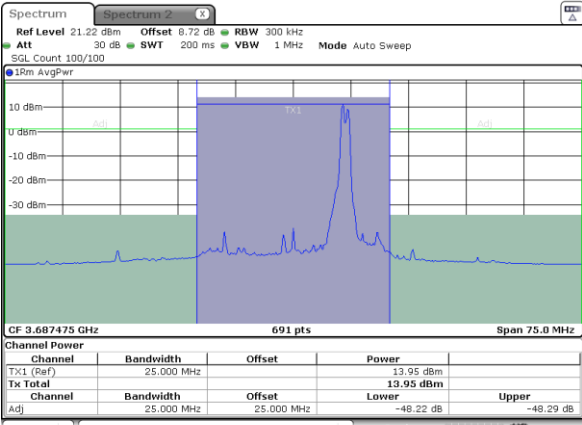
N/A



Date: 18.OCT.2024 13:38:59

Highest Band Edge / 1RB99 and 1RB0

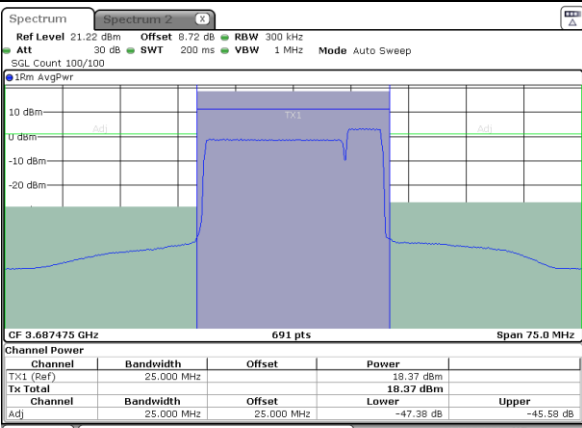
N/A



Date: 18.OCT.2024 13:44:12

Highest Band Edge / Full RB

N/A



Date: 18.OCT.2024 13:38:14

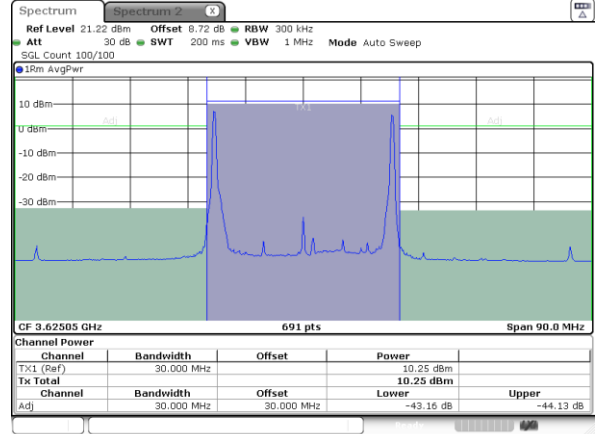
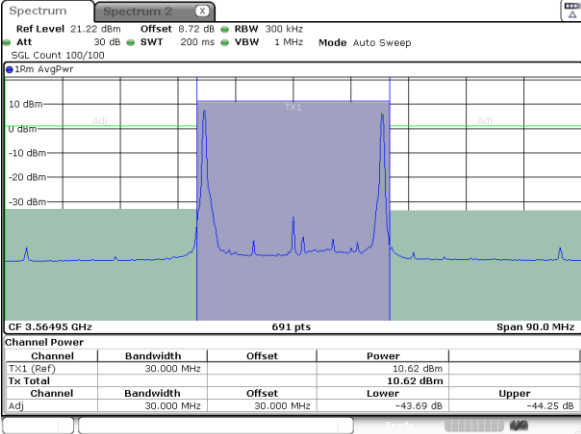


LTE Band 48C / 20MHz+10MHz

256QAM

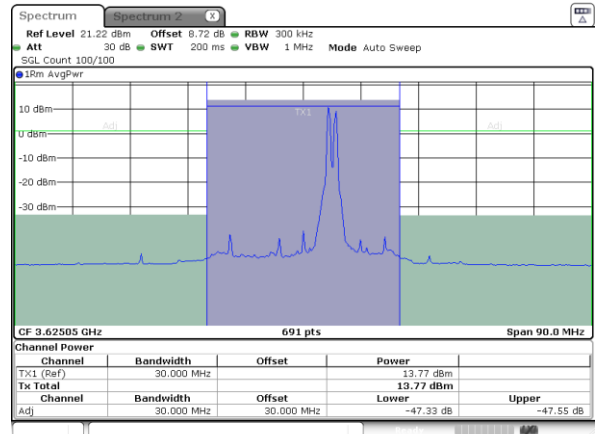
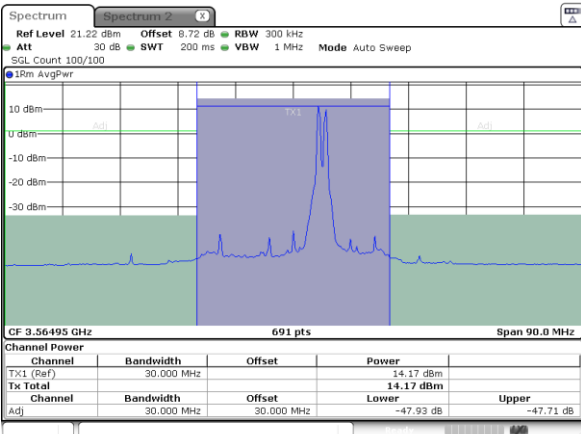
Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49



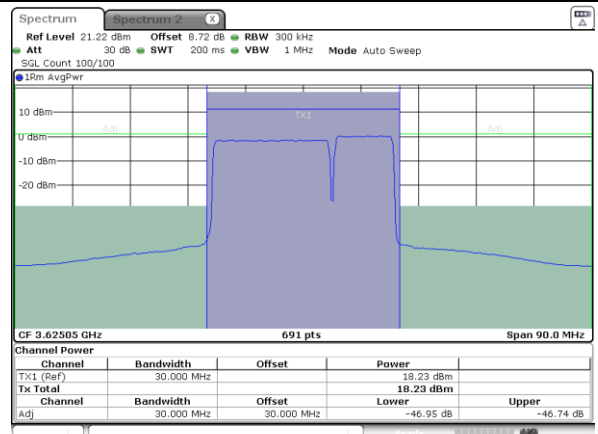
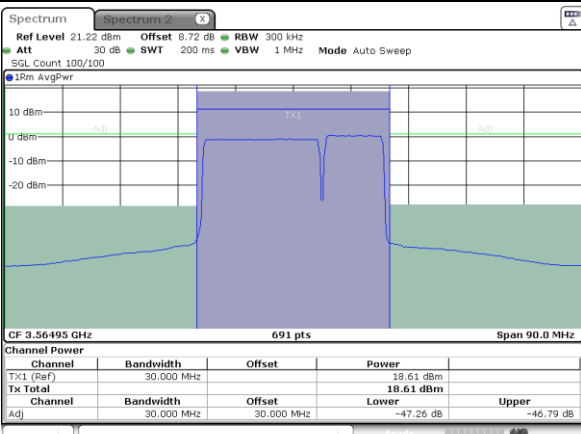
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



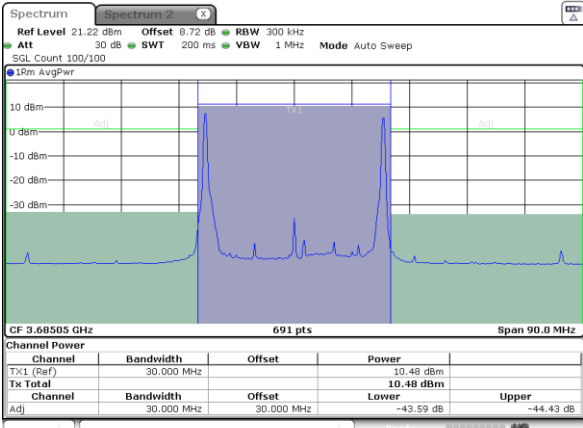


LTE Band 48C / 20MHz+10MHz

256QAM

Highest Band Edge / 1RB0 and 1RB49

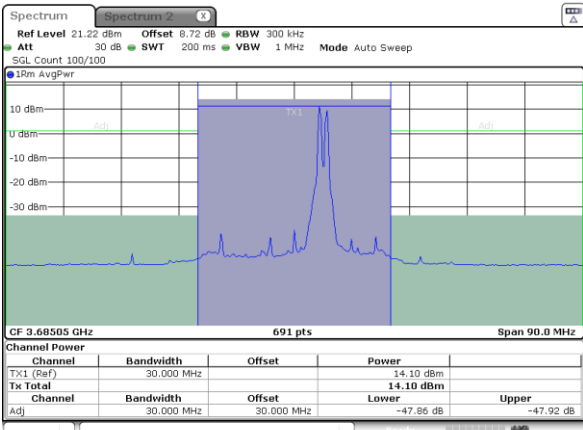
N/A



Date: 18.OCT.2024 14:06:19

Highest Band Edge / 1RB99 and 1RB0

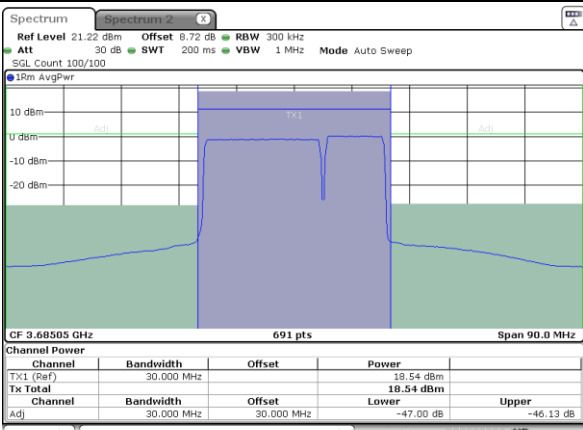
N/A



Date: 18.OCT.2024 14:11:53

Highest Band Edge / Full RB

N/A



Date: 18.OCT.2024 14:05:34

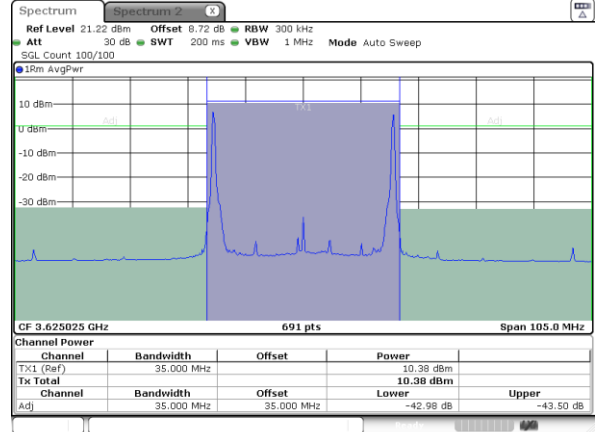
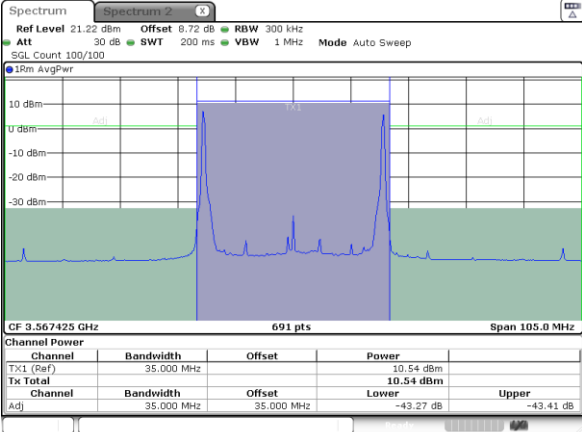


LTE Band 48C / 20MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74

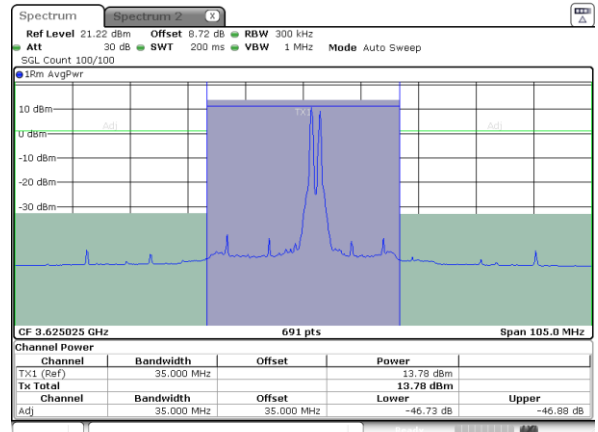
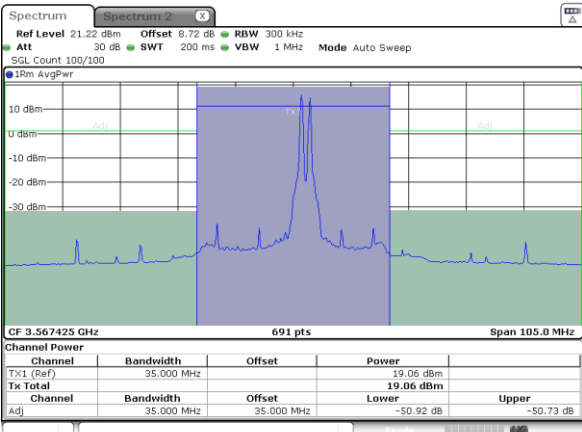


Date: 18.OCT.2024 14:17:41

Date: 18.OCT.2024 14:24:33

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

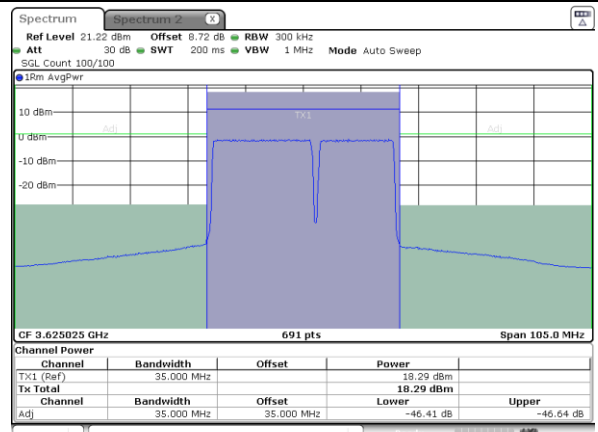
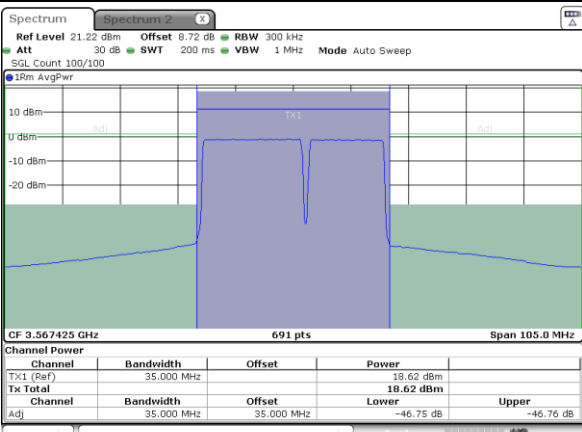


Date: 18.OCT.2024 14:20:41

Date: 18.OCT.2024 14:29:47

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 18.OCT.2024 14:14:40

Date: 18.OCT.2024 14:23:48

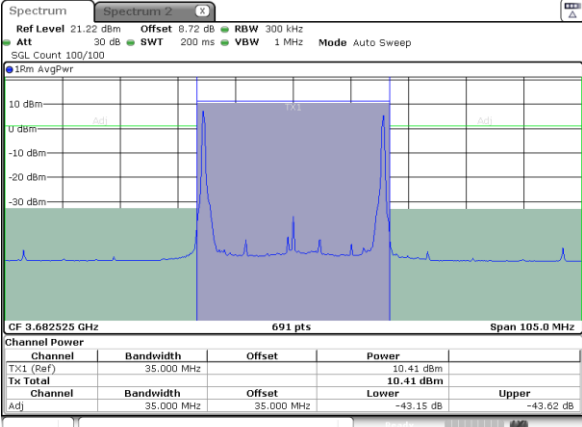


LTE Band 48C / 20MHz+15MHz

256QAM

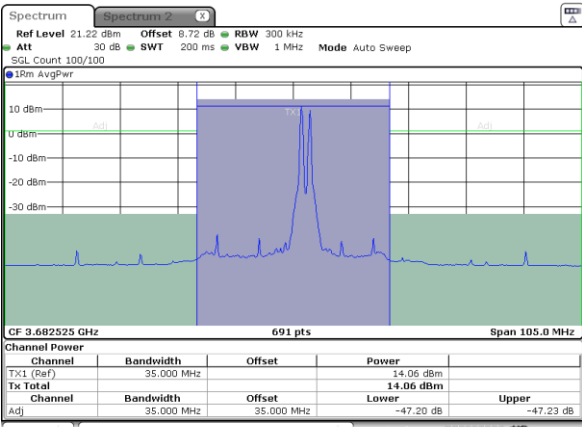
Highest Band Edge / 1RB0 and 1RB74

N/A



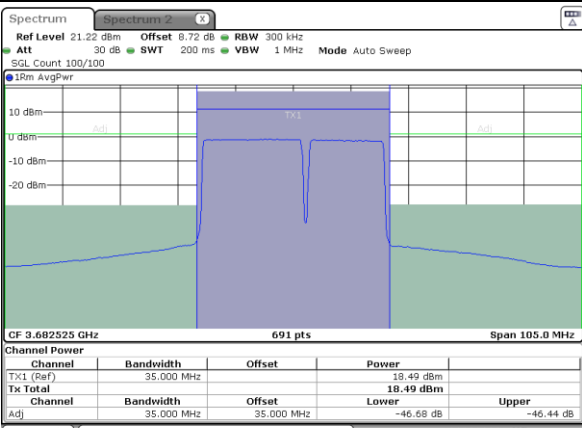
Highest Band Edge / 1RB99 and 1RB0

N/A



Highest Band Edge / Full RB

N/A



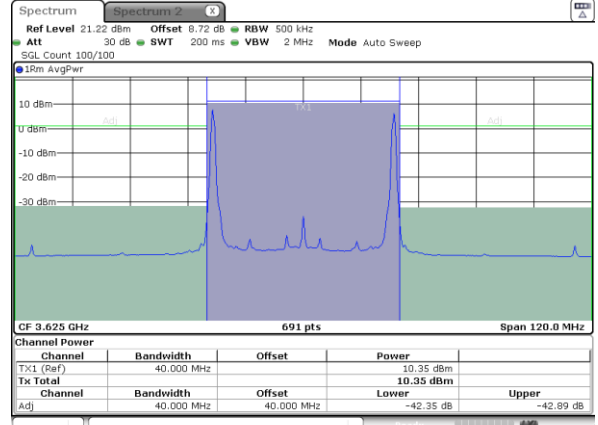
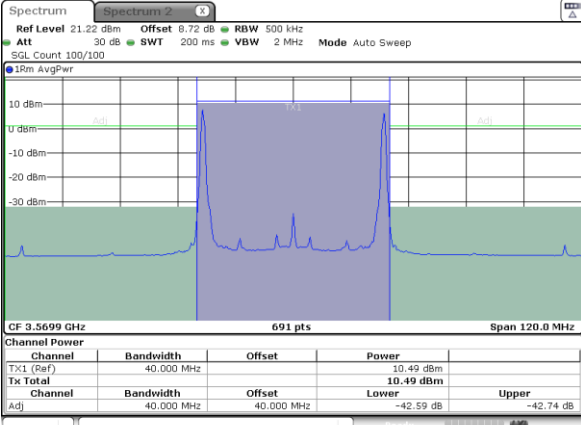


LTE Band 48C / 20MHz+20MHz

256QAM

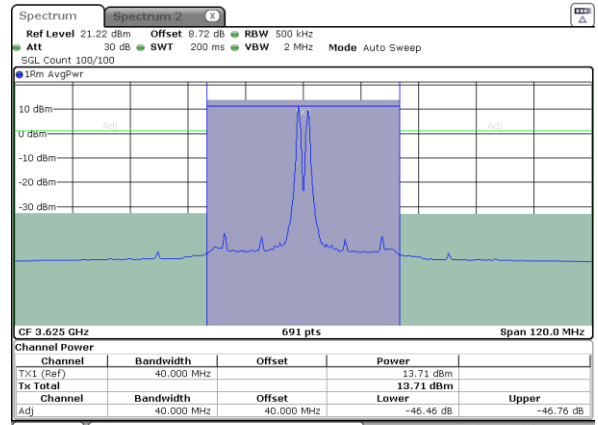
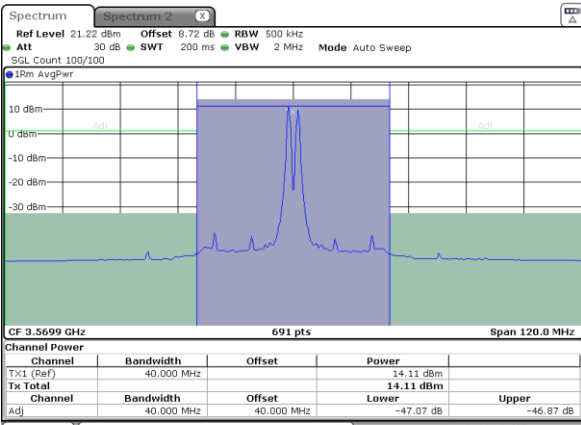
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



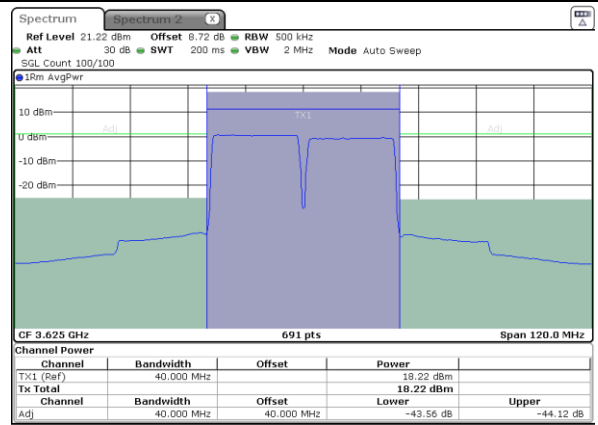
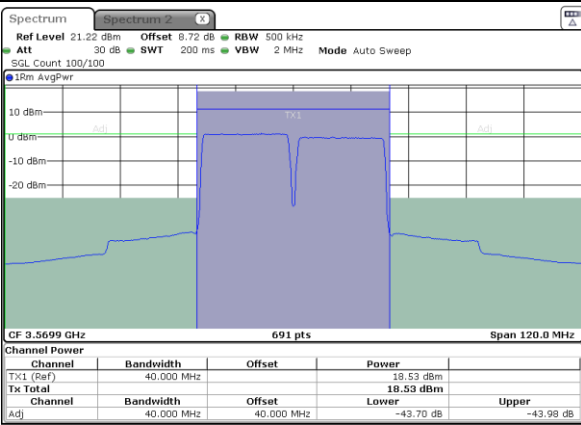
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



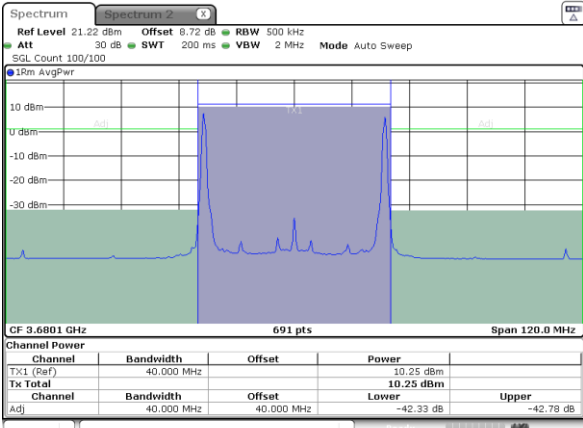


LTE Band 48C / 20MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

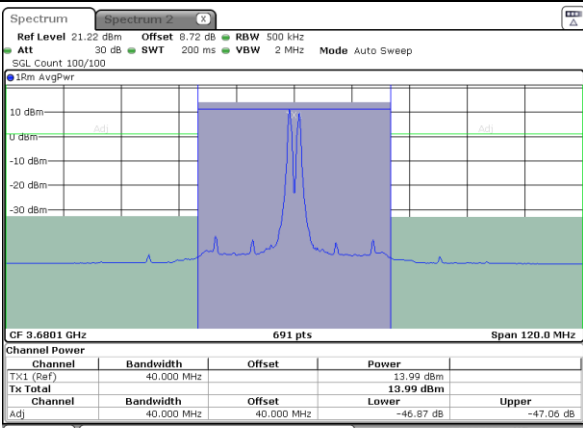
N/A



Date: 18.OCT.2024 13:11:41

Highest Band Edge / 1RB99 and 1RB0

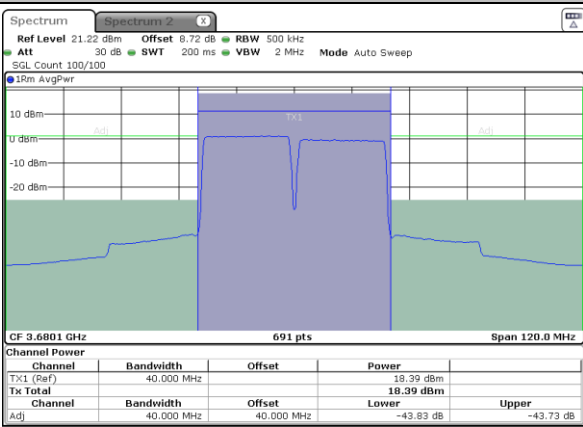
N/A



Date: 18.OCT.2024 13:16:55

Highest Band Edge / Full RB

N/A



Date: 18.OCT.2024 13:10:56



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0132	PASS
40	Normal Voltage	0.0125	
30	Normal Voltage	0.0069	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0248	
0	Normal Voltage	0.0220	
-10	Normal Voltage	0.0156	
-20	Normal Voltage	0.0140	
-30	Normal Voltage	0.0132	
20	Maximum Voltage	0.0082	
20	Normal Voltage	0.0040	
20	Battery End Point	0.0091	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 48 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7099	-57.24	-40	-17.24	-68.70	2.84	14.30	H
	10652	-62.01	-40	-22.01	-71.95	3.49	13.43	H
	14204	-60.61	-40	-20.61	-70.85	3.85	14.09	H
	7099	-55.76	-40	-15.76	-67.22	2.84	14.30	V
	10653	-61.98	-40	-21.98	-71.92	3.49	13.43	V
	14205	-60.84	-40	-20.84	-71.08	3.85	14.09	V
Middle	7231	-59.57	-40	-19.57	-71.03	2.84	14.30	H
	10848	-61.10	-40	-21.10	-71.04	3.49	13.43	H
	14464	-60.52	-40	-20.52	-70.76	3.85	14.09	H
	7231	-56.02	-40	-16.02	-67.48	2.84	14.30	V
	10848	-61.22	-40	-21.22	-71.16	3.49	13.43	V
	14464	-60.47	-40	-20.47	-70.71	3.85	14.09	V
Highest	7363	-60.38	-40	-20.38	-71.84	2.84	14.30	H
	11043	-60.07	-40	-20.07	-70.01	3.49	13.43	H
	14724	-60.84	-40	-20.84	-71.08	3.85	14.09	H
	7363	-57.46	-40	-17.46	-68.92	2.84	14.30	V
	11048	-59.16	-40	-19.16	-69.10	3.49	13.43	V
	14722	-60.93	-40	-20.93	-71.17	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE CA_48B / 10M+10M / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7101	-62.74	-40	-22.74	-74.20	2.84	14.30	H
	10651	-61.80	-40	-21.80	-71.74	3.49	13.43	H
	14205	-61.28	-40	-21.28	-71.52	3.85	14.09	H
	7101	-61.49	-40	-21.49	-72.95	2.84	14.30	V
	10651	-62.23	-40	-22.23	-72.17	3.49	13.43	V
	14202	-61.15	-40	-21.15	-71.39	3.85	14.09	V
	7121	-63.41	-40	-23.41	-74.87	2.84	14.30	H
	10681	-61.94	-40	-21.94	-71.88	3.49	13.43	H
	14238	-60.53	-40	-20.53	-70.77	3.85	14.09	H
	7121	-63.05	-40	-23.05	-74.51	2.84	14.30	V
	10681	-61.78	-40	-21.78	-71.72	3.49	13.43	V
	14242	-60.93	-40	-20.93	-71.17	3.85	14.09	V
Middle	7275	-62.70	-40	-22.70	-74.16	2.84	14.30	H
	10914	-61.51	-40	-21.51	-71.45	3.49	13.43	H
	14552	-60.80	-40	-20.80	-71.04	3.85	14.09	H
	7276	-62.66	-40	-22.66	-74.12	2.84	14.30	V
	10914	-61.61	-40	-21.61	-71.55	3.49	13.43	V
	14552	-60.81	-40	-20.81	-71.05	3.85	14.09	V
	7297	-62.77	-40	-22.77	-74.23	2.84	14.30	H
	10944	-61.21	-40	-21.21	-71.15	3.49	13.43	H
	14592	-60.58	-40	-20.58	-70.82	3.85	14.09	H
	7296	-62.99	-40	-22.99	-74.45	2.84	14.30	V
	10944	-61.17	-40	-21.17	-71.11	3.49	13.43	V
14590	-60.61	-40	-20.61	-70.85	3.85	14.09	V	
Highest	7363	-62.87	-40	-22.87	-74.33	2.84	14.30	H
	11042	-60.79	-40	-20.79	-70.73	3.49	13.43	H
	14723	-61.01	-40	-21.01	-71.25	3.85	14.09	H
	7361	-62.10	-40	-22.10	-73.56	2.84	14.30	V
	11042	-60.67	-40	-20.67	-70.61	3.49	13.43	V
	14722	-60.38	-40	-20.38	-70.62	3.85	14.09	V
	7381	-63.13	-40	-23.13	-74.59	2.84	14.30	H
	11072	-60.72	-40	-20.72	-70.66	3.49	13.43	H
	14766	-60.28	-40	-20.28	-70.52	3.85	14.09	H
	7385	-63.06	-40	-23.06	-74.52	2.84	14.30	V
	11071	-60.99	-40	-20.99	-70.93	3.49	13.43	V
14762	-60.24	-40	-20.24	-70.48	3.85	14.09	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE CA_48C / 20M+20M / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7099	-60.78	-40	-20.78	-72.24	2.84	14.30	H
	10653.27	-62.05	-40	-22.05	-71.99	3.49	13.43	H
	14205	-60.39	-40	-20.39	-70.63	3.85	14.09	H
	7099	-60.04	-40	-20.04	-71.50	2.84	14.30	V
	10653.27	-61.56	-40	-21.56	-71.50	3.49	13.43	V
	14204.36	-60.49	-40	-20.49	-70.73	3.85	14.09	V
	7143	-62.89	-40	-22.89	-74.35	2.84	14.30	H
	10712.67	-61.40	-40	-21.40	-71.34	3.49	13.43	H
	14283.56	-60.90	-40	-20.90	-71.14	3.85	14.09	H
	7141.78	-62.43	-40	-22.43	-73.89	2.84	14.30	V
	10712.67	-61.10	-40	-21.10	-71.04	3.49	13.43	V
	14282	-60.60	-40	-20.60	-70.84	3.85	14.09	V
Middle	7209	-63.07	-40	-23.07	-74.53	2.84	14.30	H
	10818.57	-61.63	-40	-21.63	-71.57	3.49	13.43	H
	14424.76	-60.70	-40	-20.70	-70.94	3.85	14.09	H
	7212.38	-62.15	-40	-22.15	-73.61	2.84	14.30	V
	10818.57	-61.55	-40	-21.55	-71.49	3.49	13.43	V
	14425	-60.89	-40	-20.89	-71.13	3.85	14.09	V
	7251.98	-63.01	-40	-23.01	-74.47	2.84	14.30	H
	10877.97	-61.48	-40	-21.48	-71.42	3.49	13.43	H
	14502	-60.61	-40	-20.61	-70.85	3.85	14.09	H
	7253	-62.40	-40	-22.40	-73.86	2.84	14.30	V
	10877.97	-61.65	-40	-21.65	-71.59	3.49	13.43	V
	14503.96	-61.02	-40	-21.02	-71.26	3.85	14.09	V
Highest	7319	-62.57	-40	-22.57	-74.03	2.84	14.30	H
	10983.87	-61.08	-40	-21.08	-71.02	3.49	13.43	H
	14645.16	-60.66	-40	-20.66	-70.90	3.85	14.09	H
	7322.58	-63.23	-40	-23.23	-74.69	2.84	14.30	V
	10983.87	-61.00	-40	-21.00	-70.94	3.49	13.43	V
	14645	-60.92	-40	-20.92	-71.16	3.85	14.09	V
	7363	-62.76	-40	-22.76	-74.22	2.84	14.30	H
	11043.27	-60.92	-40	-20.92	-70.86	3.49	13.43	H
	14724.36	-60.97	-40	-20.97	-71.21	3.85	14.09	H
	7362.18	-62.74	-40	-22.74	-74.20	2.84	14.30	V
	11043.27	-60.80	-40	-20.80	-70.74	3.49	13.43	V
	14722	-60.94	-40	-20.94	-71.18	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.