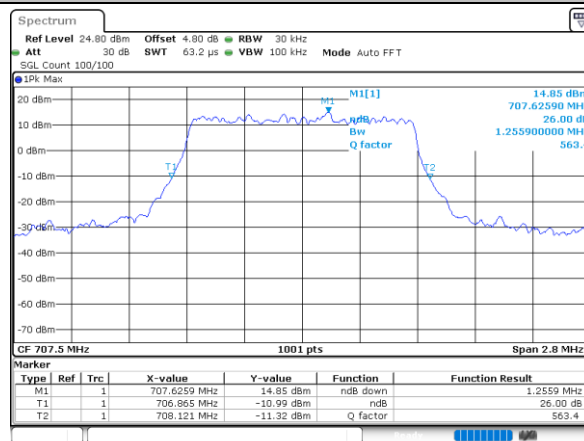


26dB Bandwidth

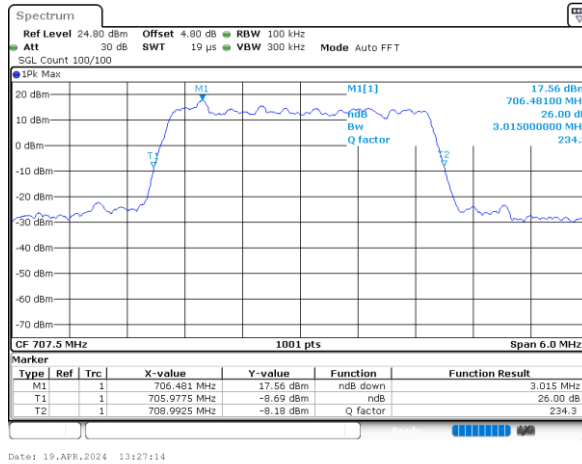
Mode	LTE Band 12 : 26dB BW(MHz)
BW	1.4MHz
Mod.	16QAM
Middle CH	1.26
BW	3MHz
Mod.	16QAM
Middle CH	3.02
BW	5MHz
Mod.	16QAM
Middle CH	4.91
BW	10MHz
Mod.	16QAM
Middle CH	5.59

Middle Channel / 1.4MHz / 16QAM

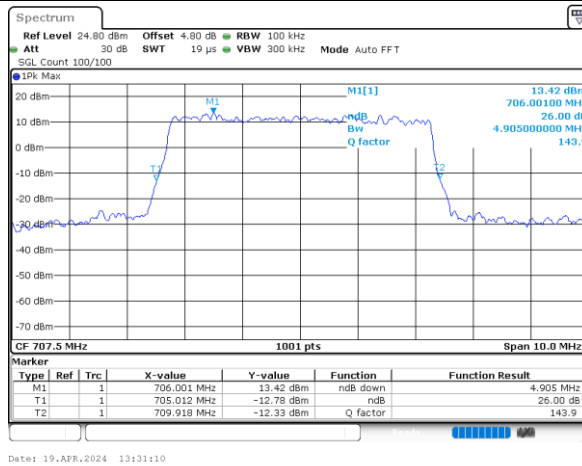




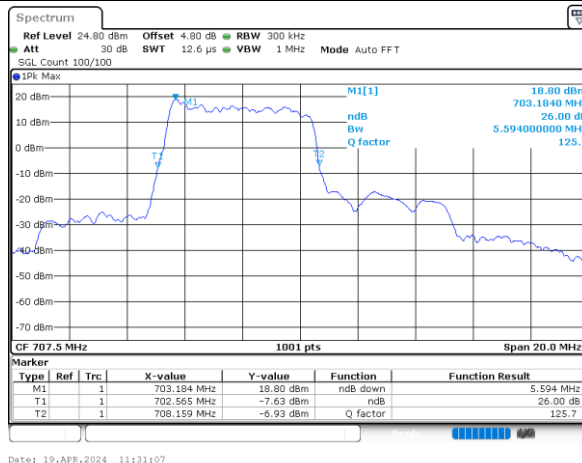
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / 16QAM

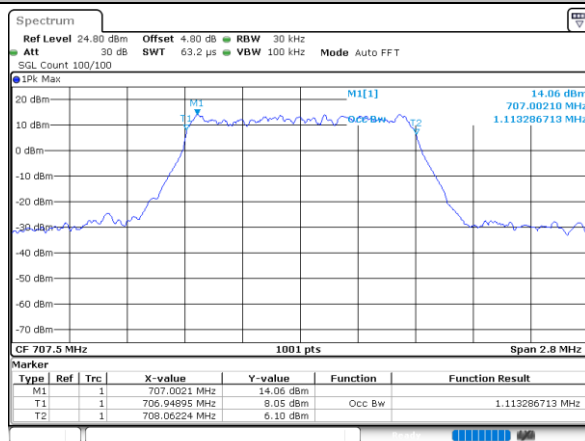


Middle Channel / 10MHz / 16QAM



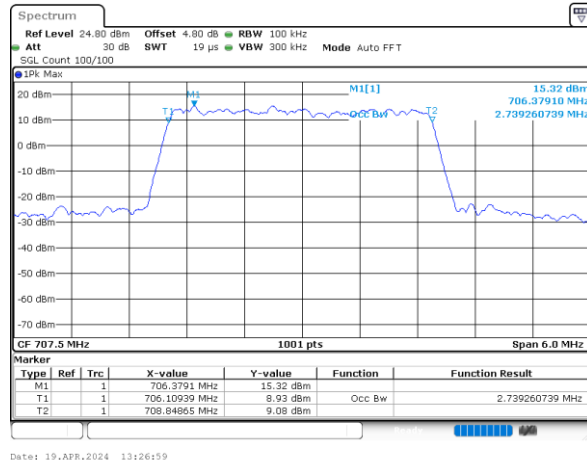
**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)
BW	1.4MHz
Mod.	16QAM
Middle CH	1.11
BW	3MHz
Mod.	16QAM
Middle CH	2.74
BW	5MHz
Mod.	16QAM
Middle CH	4.52
BW	10MHz
Mod.	16QAM
Middle CH	5.00

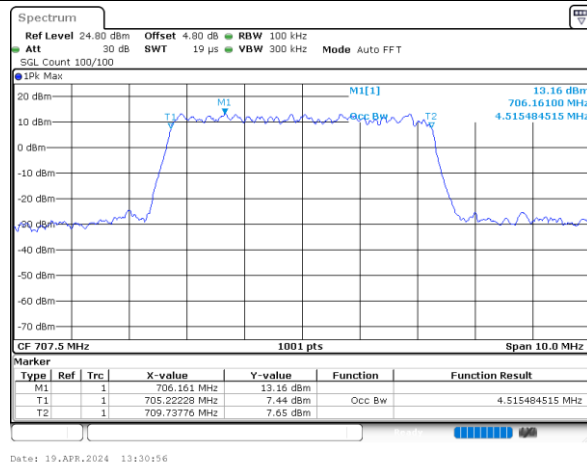
Middle Channel / 1.4MHz / 16QAM



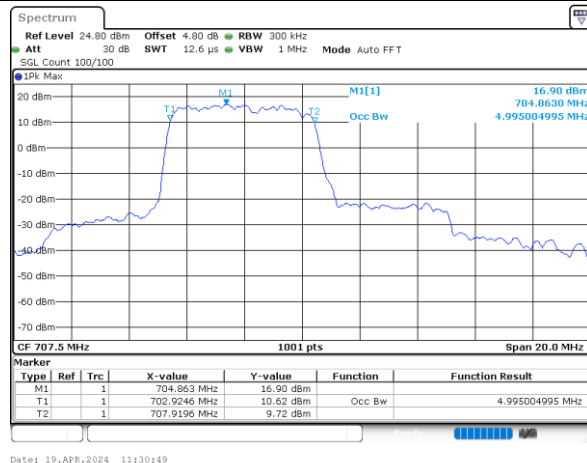
Middle Channel / 3MHz / 16QAM

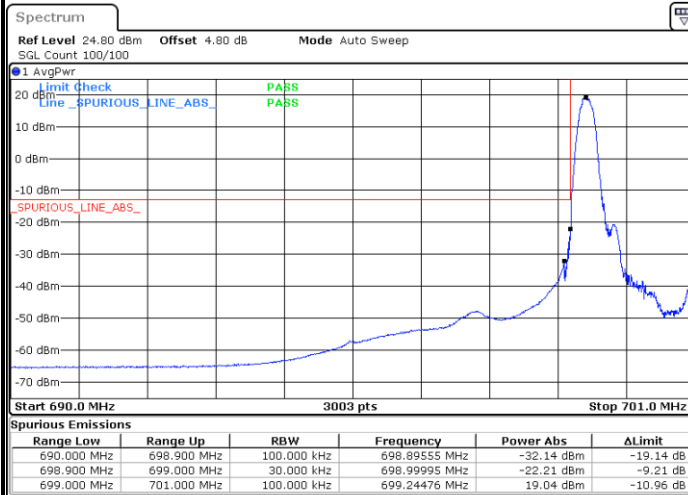
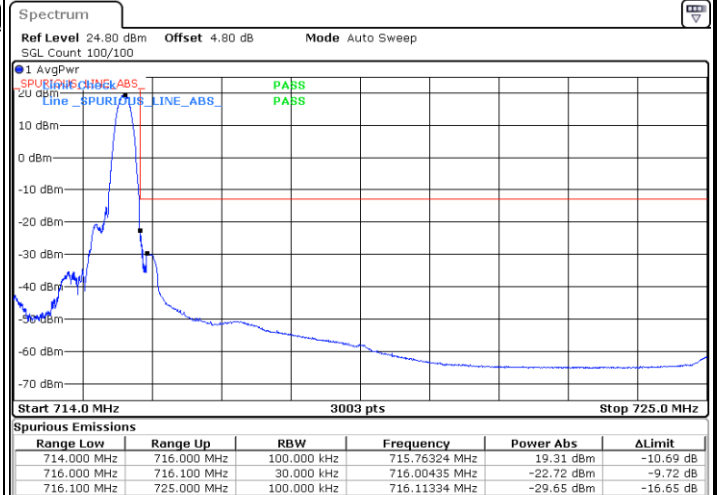
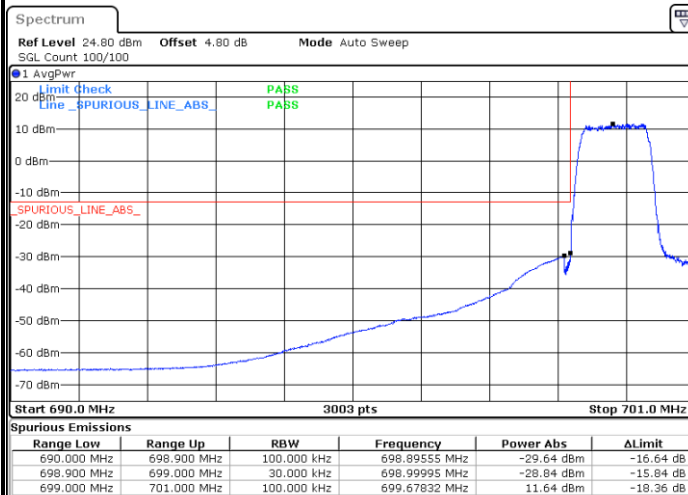
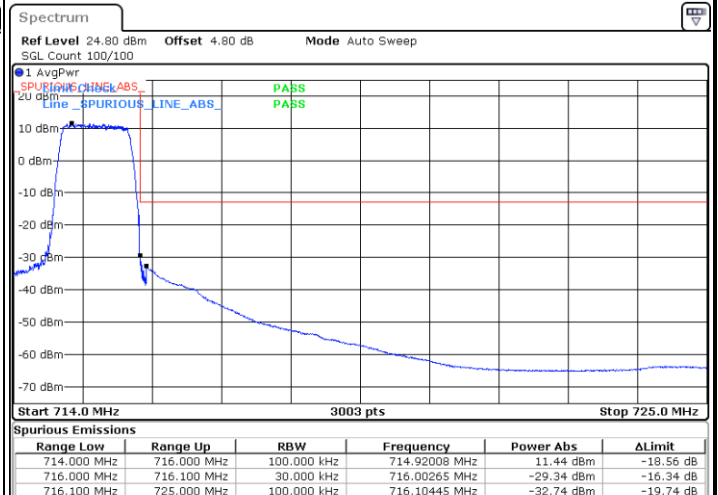


Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / 16QAM

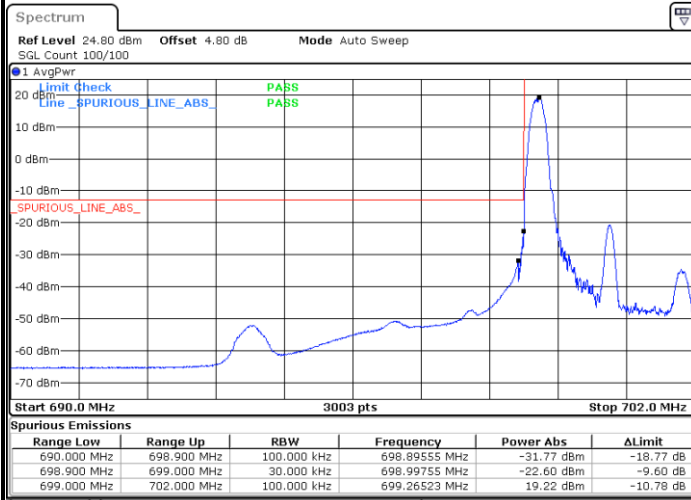


**Conducted Band Edge****LTE Band 12 / 1.4MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

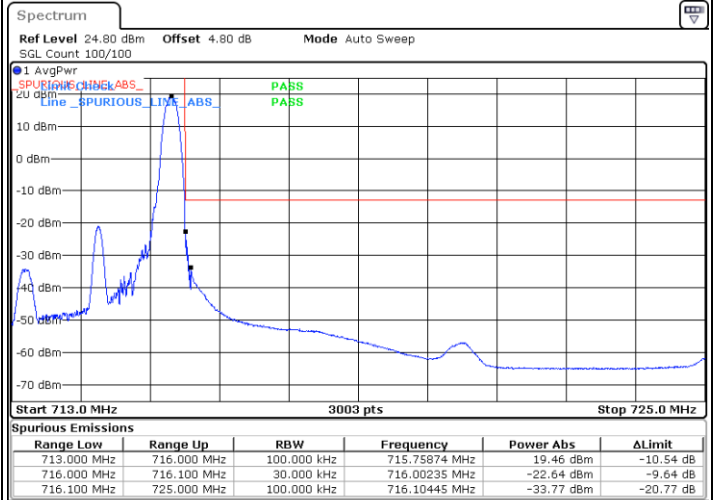


LTE Band 12 / 3MHz / 16QAM

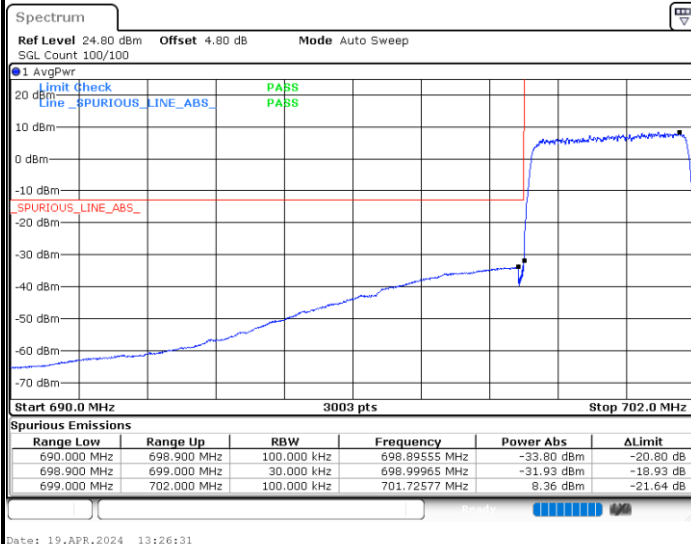
Lowest Band Edge / 1 RB



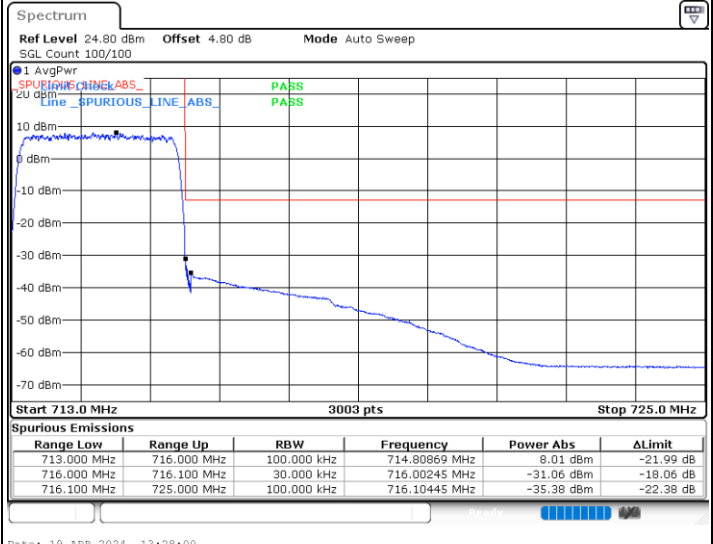
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



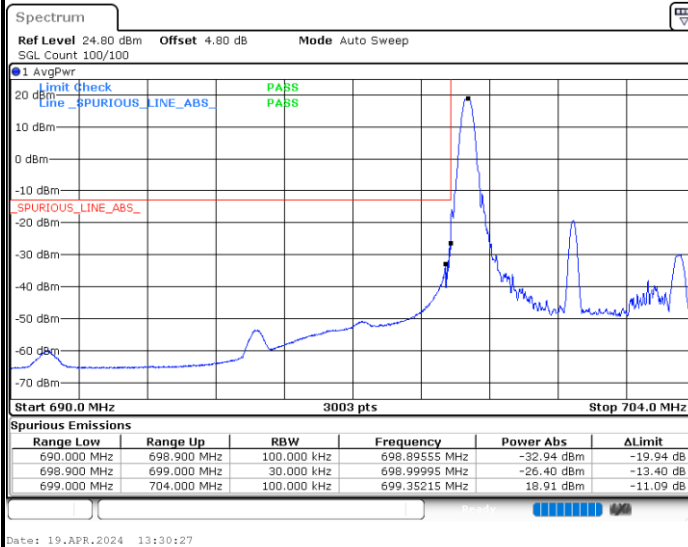
Highest Band Edge / Full RB



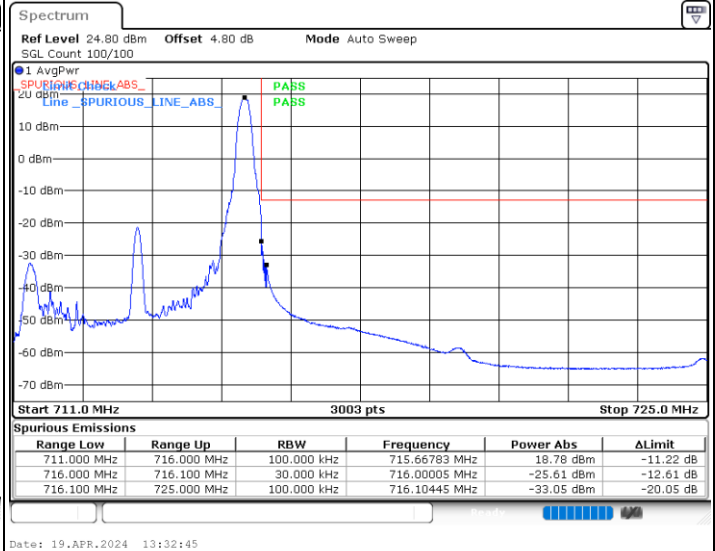


LTE Band 12 / 5MHz / 16QAM

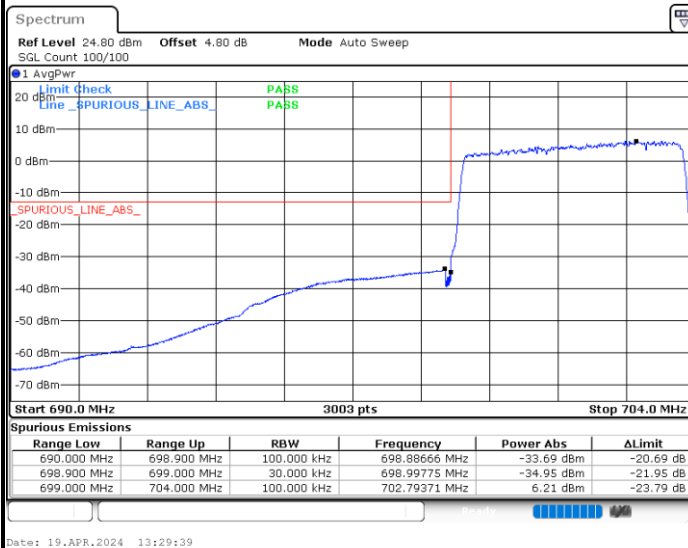
Lowest Band Edge / 1RB



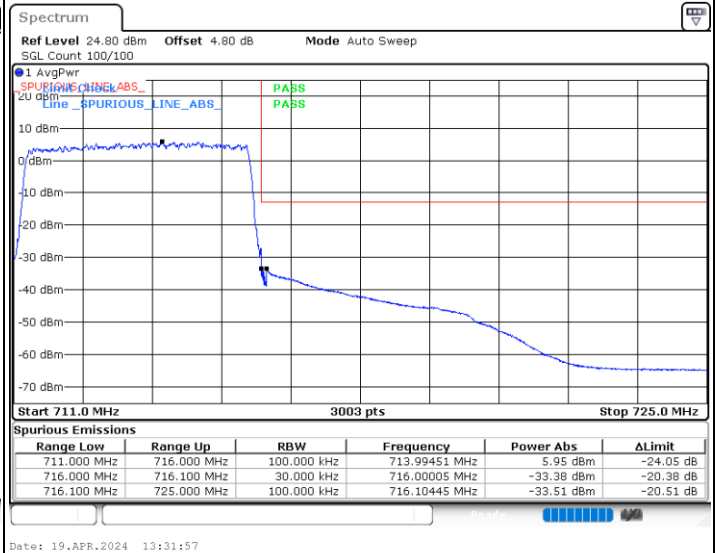
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



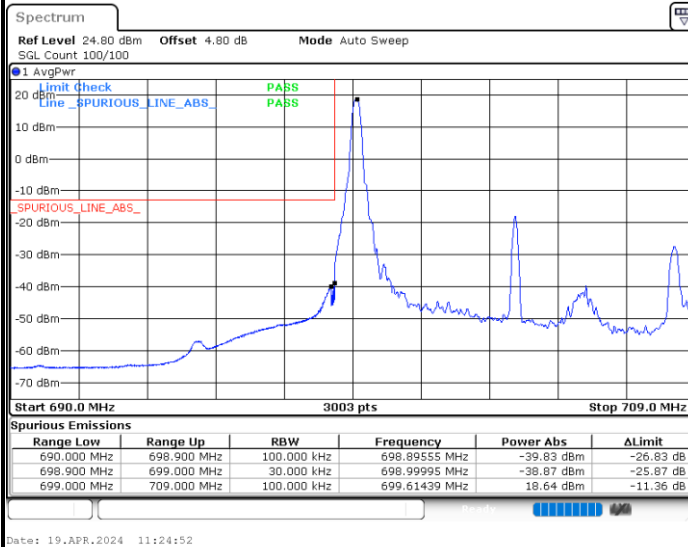
Highest Band Edge / Full RB



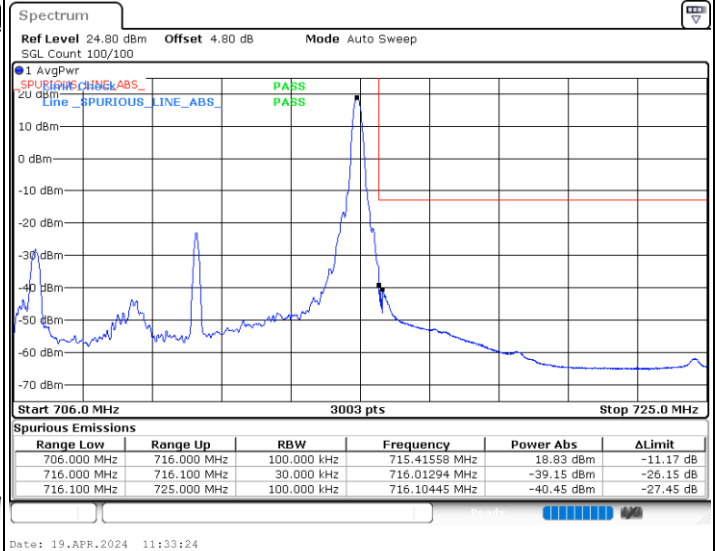


LTE Band 12 / 10MHz / 16QAM

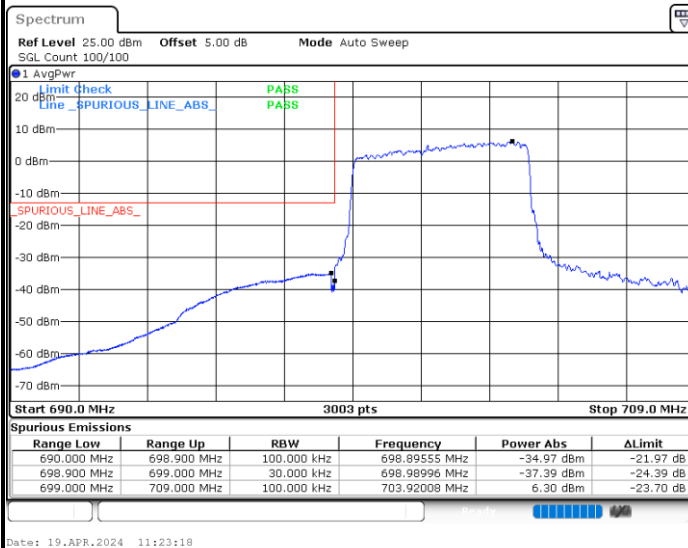
Lowest Band Edge / 1 RB



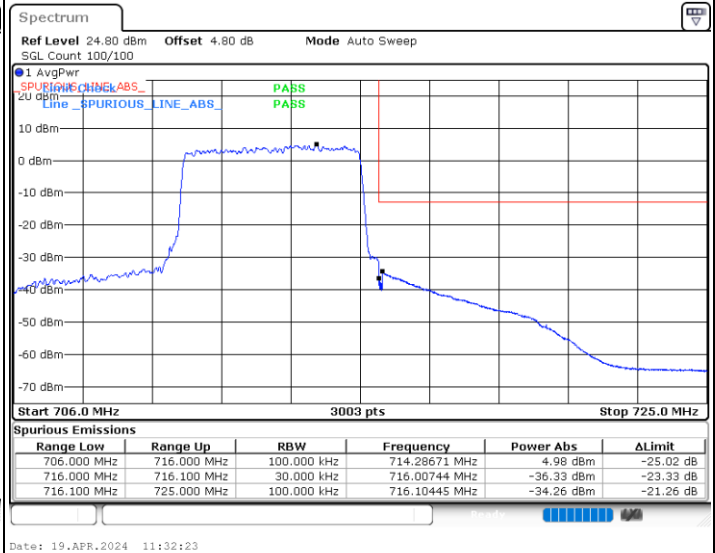
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



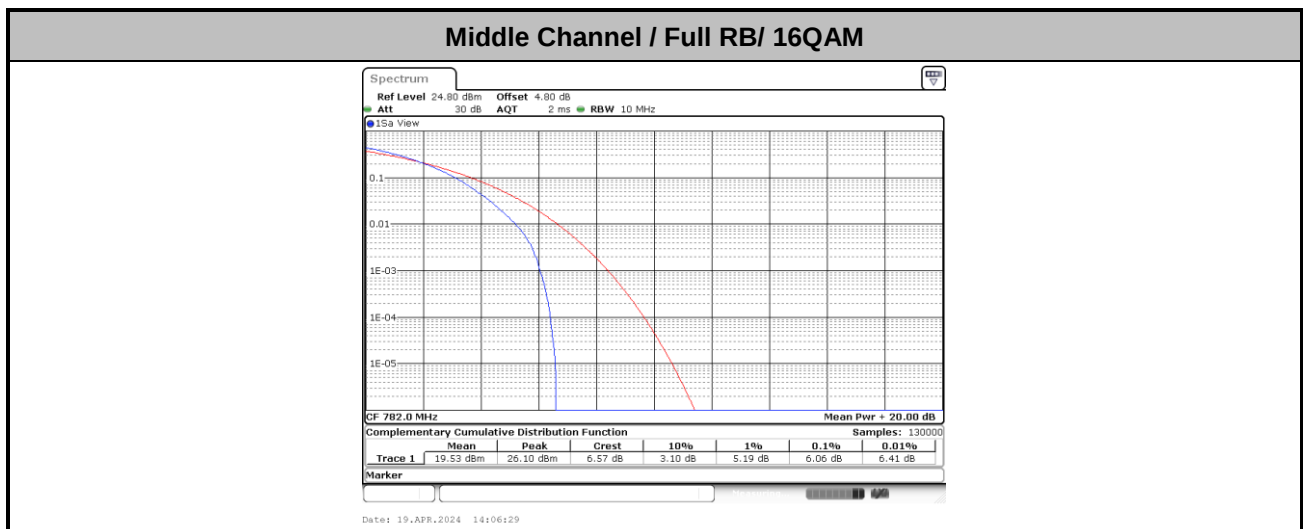
Highest Band Edge / Full RB



LTE Band 13

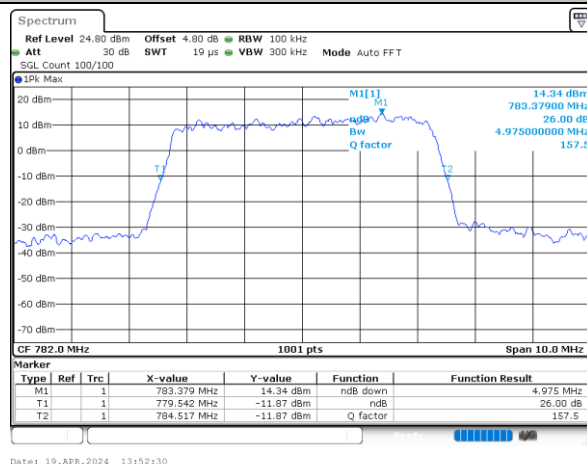
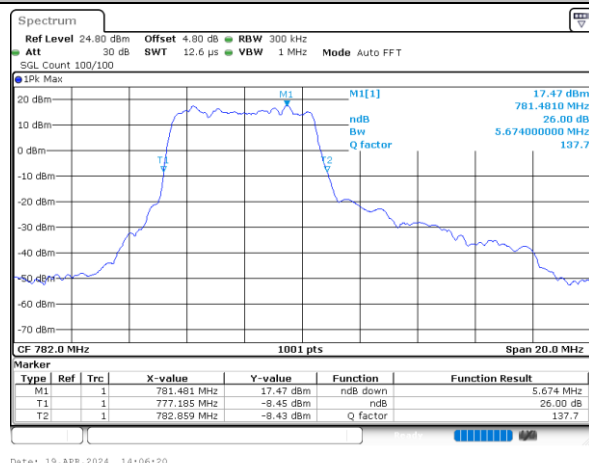
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz	
Mod.	16QAM	Limit: 13dB
RB Size	Full RB	Result
Middle CH	6.09	PASS



**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)
BW	5MHz
Mod.	16QAM
Middle CH	4.98
BW	10MHz
Mod.	16QAM
Middle CH	5.67

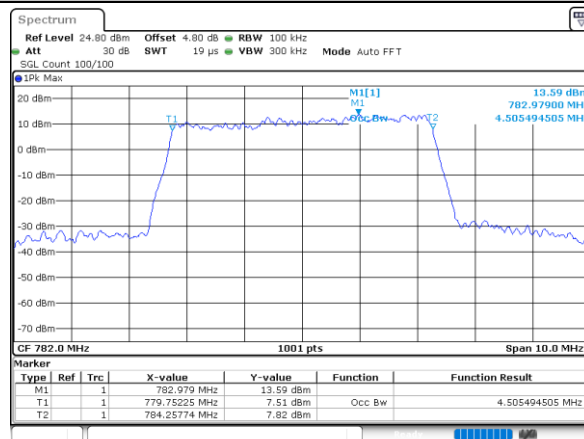
Middle Channel / 5MHz / 16QAM**Middle Channel / 10MHz / 16QAM**



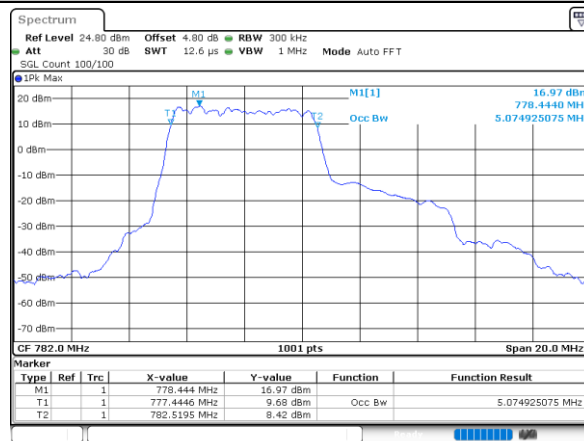
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)
BW	5MHz
Mod.	16QAM
Middle CH	4.51
BW	10MHz
Mod.	16QAM
Middle CH	5.07

Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / 16QAM

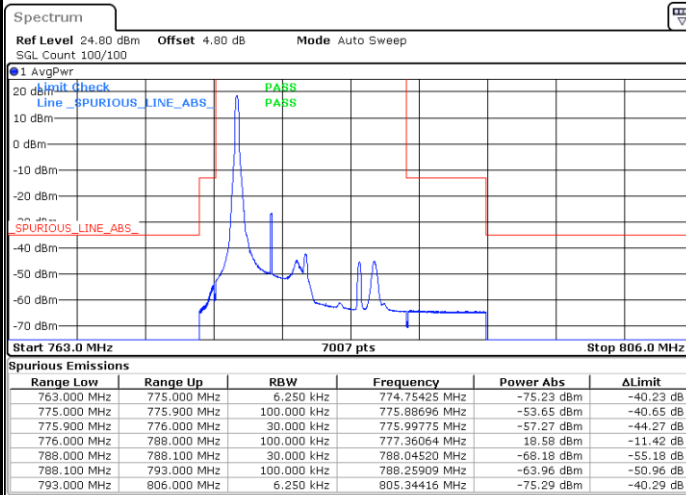




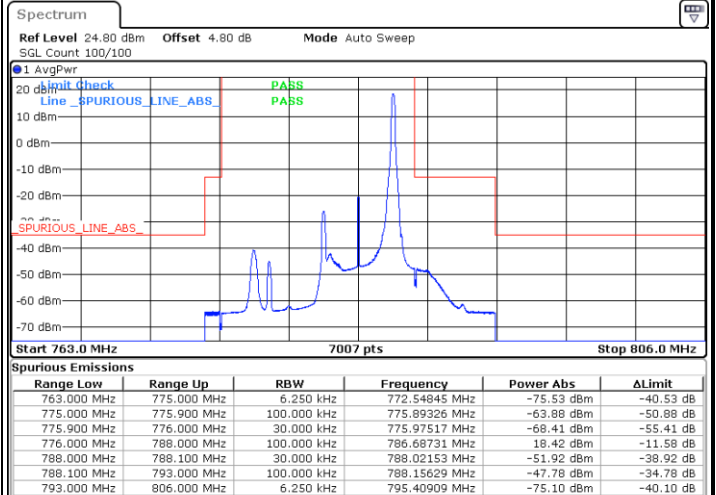
Conducted Band Edge

LTE Band 13 / 5MHz / 16QAM

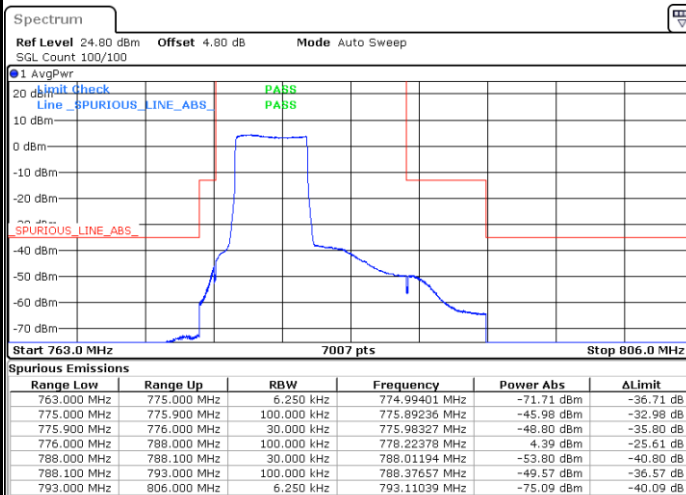
Lowest Band Edge / 1RB



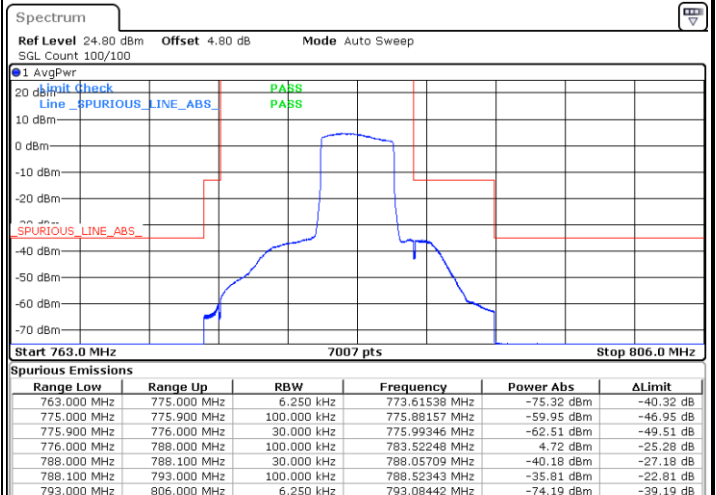
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



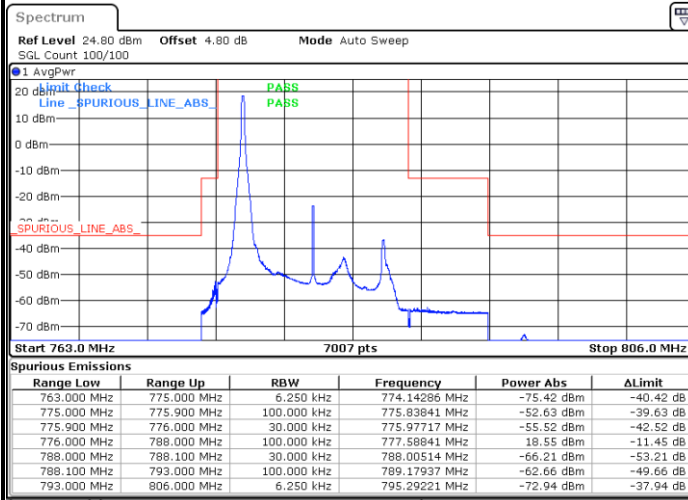
Highest Band Edge / Full RB





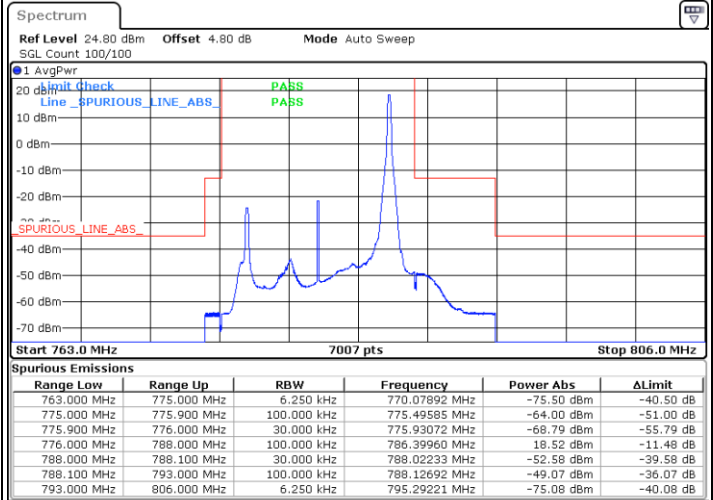
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



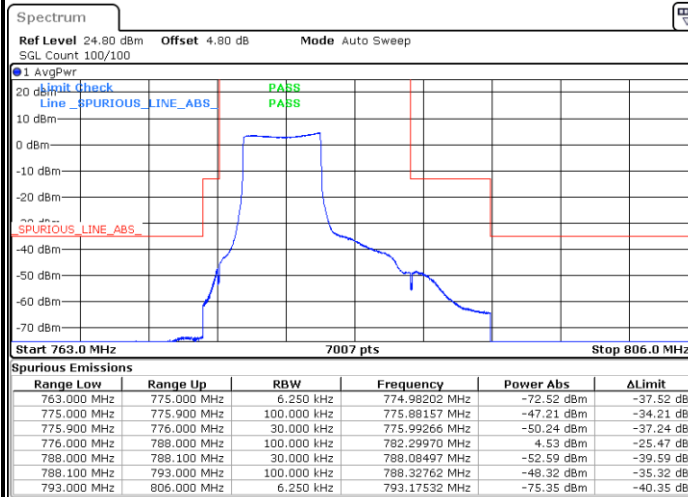
Date: 19.APR.2024 14:02:53

middle Band Edge / 1 RB

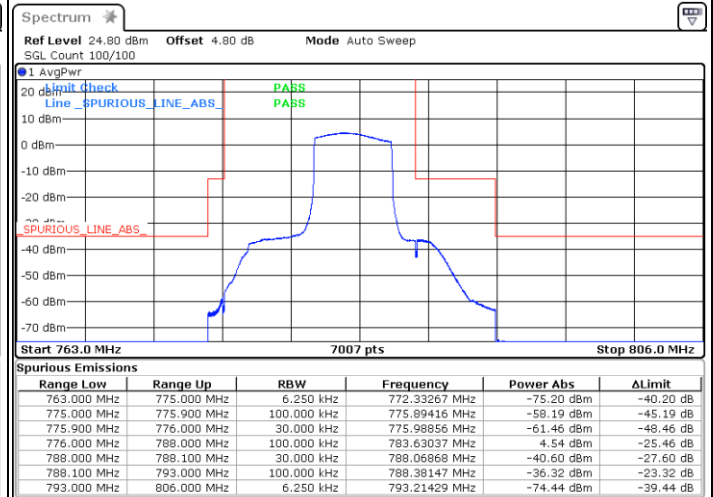


Date: 19.APR.2024 14:05:17

middle Band Edge / Full RB



Date: 19.APR.2024 13:58:08



Date: 19.APR.2024 13:59:25



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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

LTE Band 2 / 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	3705	-54.92	-13	-41.92	-67.18	2.64	14.90	H
	5550	-54.34	-13	-41.34	-66.20	2.94	14.80	H
	7410	-53.38	-13	-40.38	-63.15	3.39	13.16	H
	3705	-54.91	-13	-41.91	-67.17	2.64	14.90	V
	5550	-54.14	-13	-41.14	-66.00	2.94	14.80	V
	7410	-53.41	-13	-40.41	-63.18	3.39	13.16	V
Middle	3735	-55.55	-13	-42.55	-67.81	2.64	14.90	H
	5610	-54.32	-13	-41.32	-66.18	2.94	14.80	H
	7485	-52.45	-13	-39.45	-62.22	3.39	13.16	H
	3735	-55.59	-13	-42.59	-67.85	2.64	14.90	V
	5610	-54.63	-13	-41.63	-66.49	2.94	14.80	V
	7485	-52.90	-13	-39.90	-62.67	3.39	13.16	V
Highest	3780	-55.23	-13	-42.23	-67.49	2.64	14.90	H
	5670	-54.74	-13	-41.74	-66.60	2.94	14.80	H
	7560	-53.17	-13	-40.17	-62.94	3.39	13.16	H
	3780	-55.82	-13	-42.82	-68.08	2.64	14.90	V
	5670	-54.88	-13	-41.88	-66.74	2.94	14.80	V
	7560	-52.83	-13	-39.83	-62.60	3.39	13.16	V

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



LTE Band 4 / 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	3420	-58.40	-13	-45.40	-69.14	2.604	13.34	H
	5130	-54.27	-13	-41.27	-64.78	3.011	13.52	H
	6840	-54.26	-13	-41.26	-64.46	3.271	13.47	H
	3420	-58.40	-13	-45.40	-69.14	2.604	13.34	V
	5130	-54.11	-13	-41.11	-64.62	3.011	13.52	V
	6840	-54.46	-13	-41.46	-64.66	3.271	13.47	V
Middle	3450	-57.79	-13	-44.79	-68.53	2.604	13.34	H
	5175	-53.74	-13	-40.74	-64.25	3.011	13.52	H
	6900	-54.25	-13	-41.25	-64.45	3.271	13.47	H
	3450	-58.10	-13	-45.10	-68.84	2.604	13.34	V
	5175	-54.04	-13	-41.04	-64.55	3.011	13.52	V
	6900	-54.16	-13	-41.16	-64.36	3.271	13.47	V
Highest	3465	-57.99	-13	-44.99	-68.73	2.604	13.34	H
	5205	-52.73	-13	-39.73	-63.24	3.011	13.52	H
	6945	-54.09	-13	-41.09	-64.29	3.271	13.47	H
	3465	-58.28	-13	-45.28	-69.02	2.604	13.34	V
	5205	-52.93	-13	-39.93	-63.44	3.011	13.52	V
	6945	-54.34	-13	-41.34	-64.54	3.271	13.47	V

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

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-63.05	-13	-50.05	-70.02	1.58	10.70	H
	2472	-55.86	-13	-42.86	-64.11	2.102	12.50	H
	3296	-61.51	-13	-48.51	-70.40	2.856	13.90	H
	1648	-63.44	-13	-50.44	-70.41	1.58	10.70	V
	2472	-51.05	-13	-38.05	-59.30	2.10	12.50	V
	3296	-61.14	-13	-48.14	-70.03	2.86	13.90	V
Middle	1664	-65.35	-13	-52.35	-72.32	1.58	10.70	H
	2496	-56.88	-13	-43.88	-65.13	2.102	12.50	H
	3328	-61.02	-13	-48.02	-69.91	2.856	13.90	H
	1664	-64.39	-13	-51.39	-71.36	1.58	10.70	V
	2496	-49.60	-13	-36.60	-57.85	2.10	12.50	V
	3328	-61.15	-13	-48.15	-70.04	2.86	13.90	V
Highest	1680	-61.99	-13	-48.99	-68.96	1.58	10.70	H
	2520	-59.53	-13	-46.53	-67.78	2.102	12.50	H
	3360	-61.56	-13	-48.56	-70.45	2.856	13.90	H
	1680	-62.38	-13	-49.38	-69.35	1.58	10.70	V
	2520	-57.23	-13	-44.23	-65.48	2.10	12.50	V
	3360	-61.66	-13	-48.66	-70.55	2.86	13.90	V

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



LTE Band 12 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-54.07	-13	-41.07	-61.04	1.58	10.70	H
	2096	-61.29	-13	-48.29	-69.54	2.102	12.50	H
	2800	-57.56	-13	-44.56	-66.45	2.856	13.90	H
	3496	-46.14	-13	-33.14	-54.60	2.689	13.30	H
	4200	-58.82	-13	-45.82	-66.58	3.093	13.00	H
	1400	-52.76	-13	-39.76	-59.73	1.58	10.70	V
	2096	-59.02	-13	-46.02	-67.27	2.10	12.50	V
	2800	-57.22	-13	-44.22	-66.11	2.86	13.90	V
	3496	-45.45	-13	-32.45	-53.91	2.69	13.30	V
	4200	-57.54	-13	-44.54	-65.30	3.09	13.00	V
Middle	1408	-59.41	-13	-46.41	-66.38	1.58	10.70	H
	2112	-58.45	-13	-45.45	-66.70	2.102	12.50	H
	2816	-60.22	-13	-47.22	-69.11	2.856	13.90	H
	3512	-53.07	-13	-40.07	-60.83	3.093	13.00	H
	1408	-59.73	-13	-46.73	-66.70	1.58	10.70	V
	2112	-53.05	-13	-40.05	-61.30	2.10	12.50	V
	2816	-59.73	-13	-46.73	-68.62	2.86	13.90	V
	3512	-52.41	-13	-39.41	-60.17	3.09	13.00	V
Highest	1416	-58.68	-13	-45.68	-65.65	1.58	10.70	H
	2120	-57.86	-13	-44.86	-66.11	2.102	12.50	H
	2824	-56.97	-13	-43.97	-65.86	2.856	13.90	H
	3536	-50.60	-13	-37.60	-59.06	2.689	13.30	H
	1416	-59.09	-13	-46.09	-66.06	1.58	10.70	V
	2120	-52.77	-13	-39.77	-61.02	2.10	12.50	V
	2824	-56.56	-13	-43.56	-65.45	2.86	13.90	V
	3536	-50.56	-13	-37.56	-59.02	2.69	13.30	V

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



LTE Band 13 / 5MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-65.81	-13	-52.81	-68.44	1.09	5.87	H
	2336	-53.97	-13	-40.97	-56.37	1.37	5.92	H
	3112	-61.00	-13	-48.00	-64.89	1.64	7.68	H
	1552	-66.86	-13	-53.86	-69.49	1.09	5.87	V
	2328	-49.55	-13	-36.55	-51.95	1.37	5.92	V
	3112	-60.73	-13	-47.73	-64.62	1.64	7.68	V
Middle	1560	-65.93	-42.15	-23.78	-68.56	1.09	5.87	H
	2336	-51.24	-13	-38.24	-53.64	1.37	5.92	H
	3120	-60.67	-13	-47.67	-64.56	1.64	7.68	H
	1560	-66.49	-42.15	-24.34	-69.12	1.09	5.87	V
	2336	-48.44	-13	-35.44	-50.84	1.37	5.92	V
	3120	-60.67	-13	-47.67	-64.56	1.64	7.68	V
Highest	1568	-65.91	-42.15	-23.76	-68.54	1.09	5.87	H
	2344	-51.92	-13	-38.92	-54.32	1.37	5.92	H
	3128	-61.01	-13	-48.01	-64.90	1.64	7.68	H
	1568	-66.24	-42.15	-24.09	-68.87	1.09	5.87	V
	2344	-49.04	-13	-36.04	-51.44	1.37	5.92	V
	3128	-60.74	-13	-47.74	-64.63	1.64	7.68	V

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

LTE Band 13 / 10MHz								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-65.43	-13	-52.43	-68.06	1.09	5.87	H
	2336	-53.55	-13	-40.55	-55.95	1.37	5.92	H
	3112	-61.21	-13	-48.21	-65.10	1.64	7.68	H
	1552	-66.25	-13	-53.25	-68.88	1.09	5.87	V
	2336	-50.09	-13	-37.09	-52.49	1.37	5.92	V
	3112	-60.67	-13	-47.67	-64.56	1.64	7.68	V

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