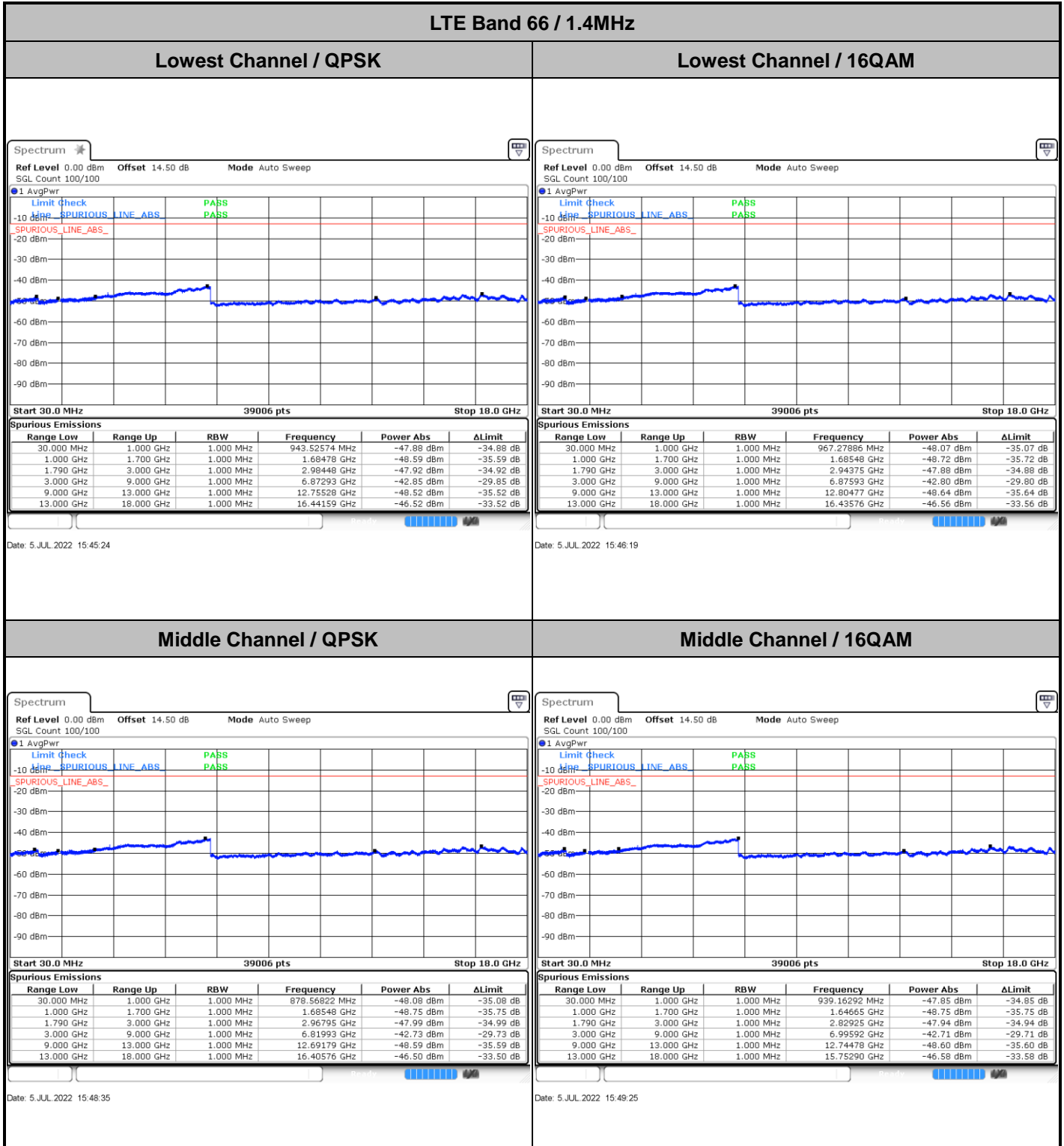




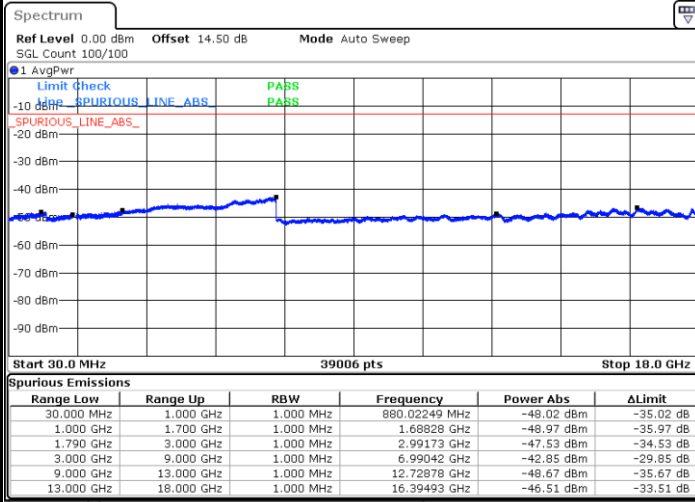
# Conducted Spurious Emission





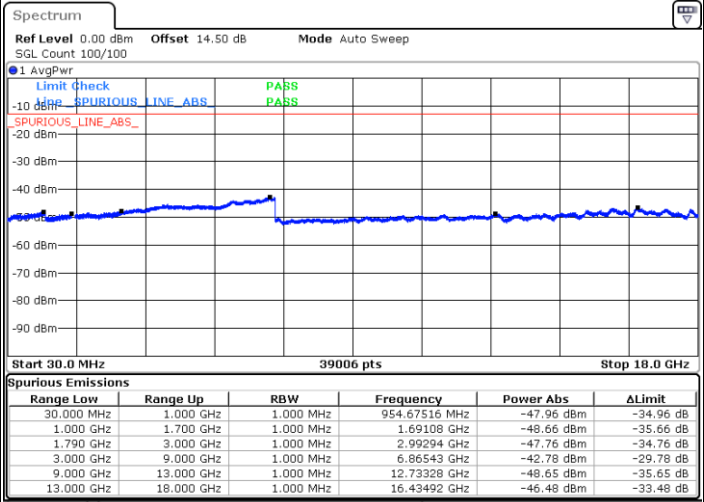
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 5 JUL 2022 15:57:01

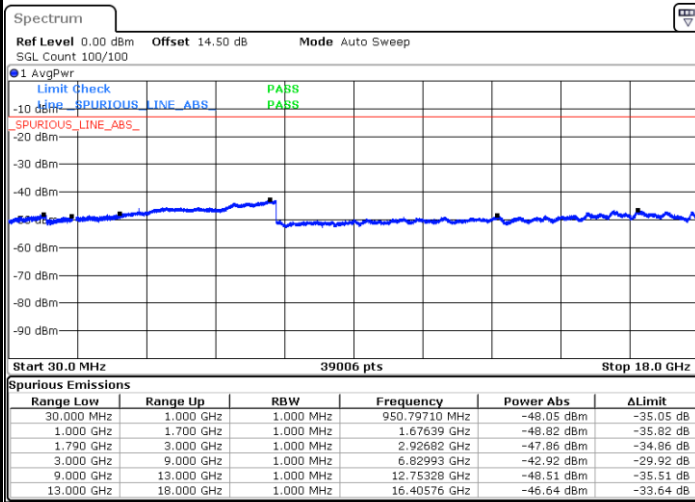
Highest Channel / 16QAM



Date: 5 JUL 2022 15:57:51

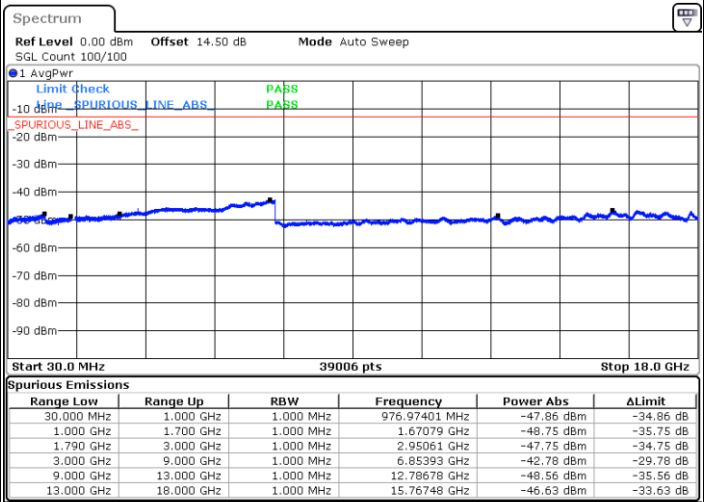
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 5 JUL 2022 16:15:25

Lowest Channel / 16QAM



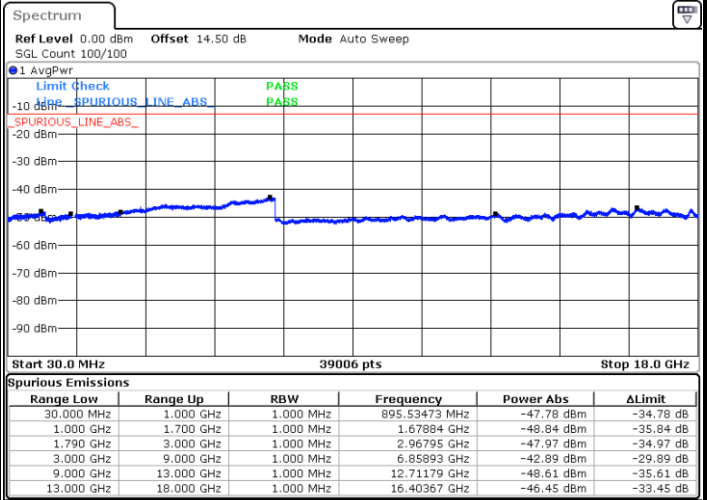
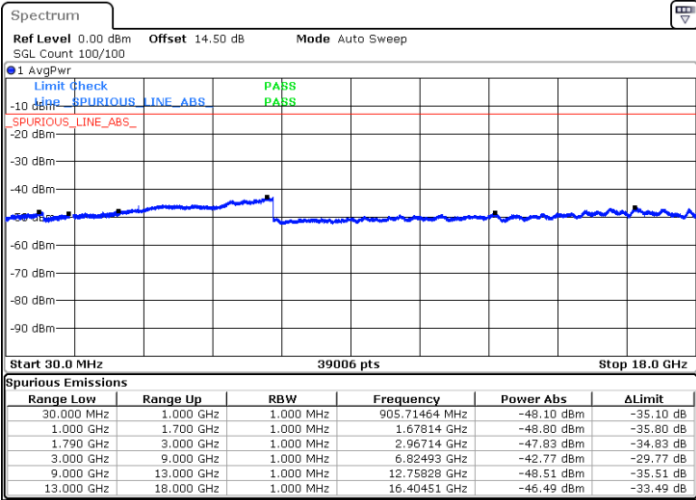
Date: 5 JUL 2022 16:16:15



LTE Band 66 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

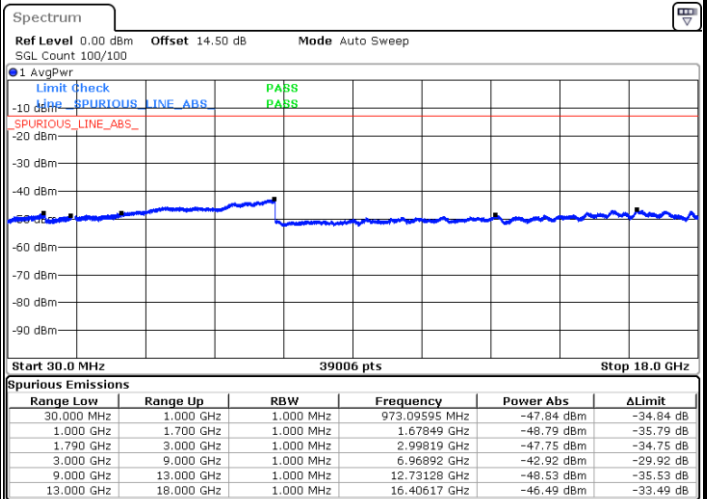
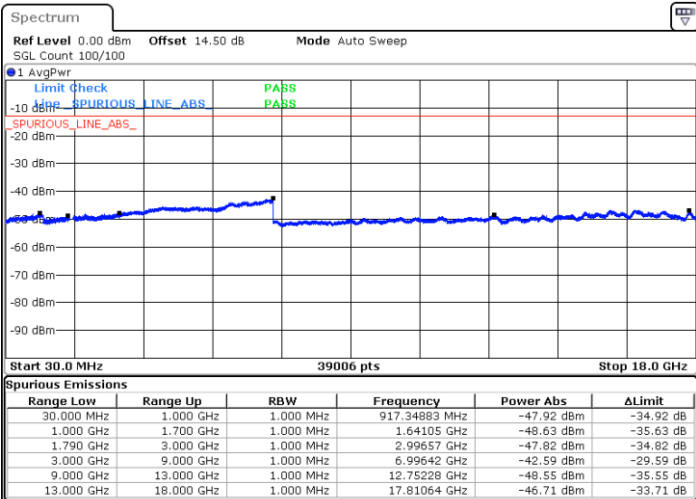


Date: 5 JUL 2022 16:18:32

Date: 5 JUL 2022 16:19:21

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 JUL 2022 16:25:37

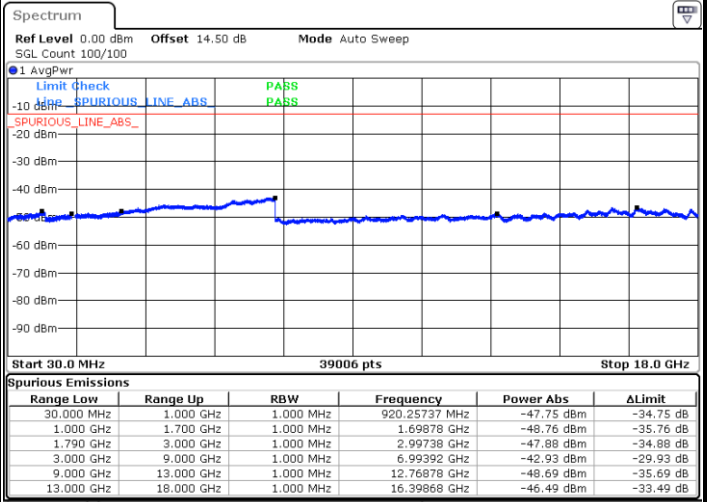
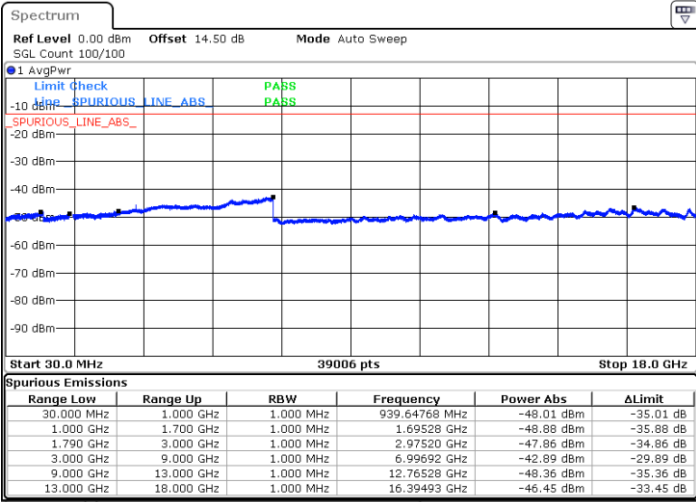
Date: 5 JUL 2022 16:26:27



LTE Band 66 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

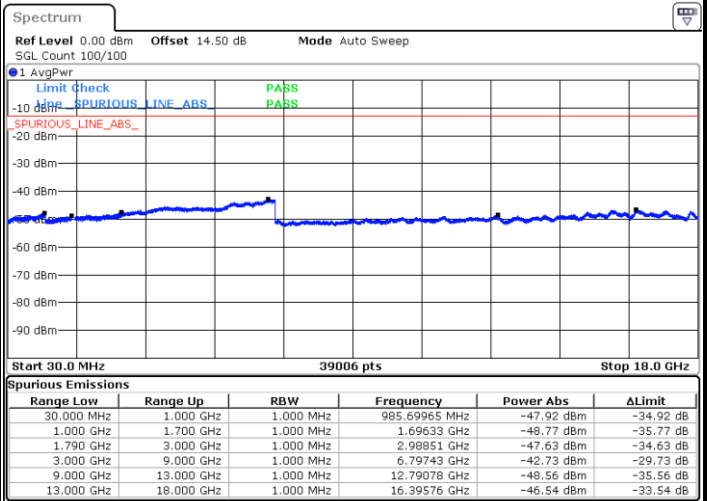
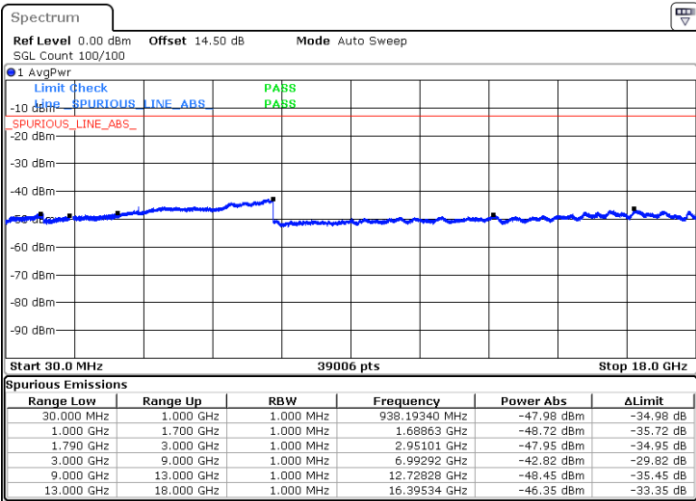


Date: 5 JUL 2022 17:34:37

Date: 5 JUL 2022 17:35:27

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 5 JUL 2022 17:37:43

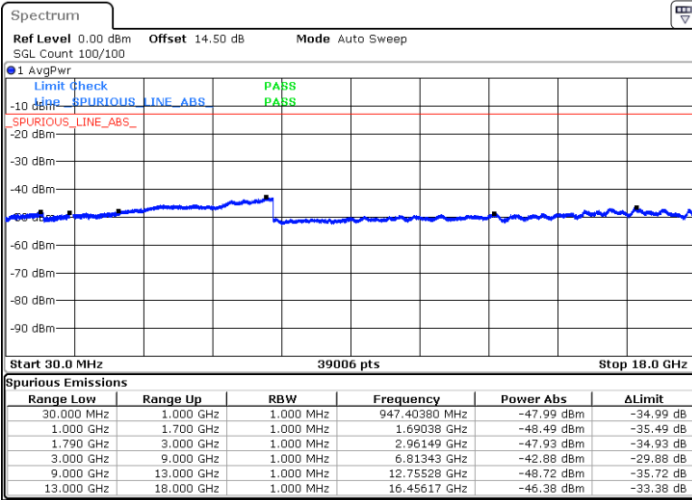
Date: 5 JUL 2022 17:38:33



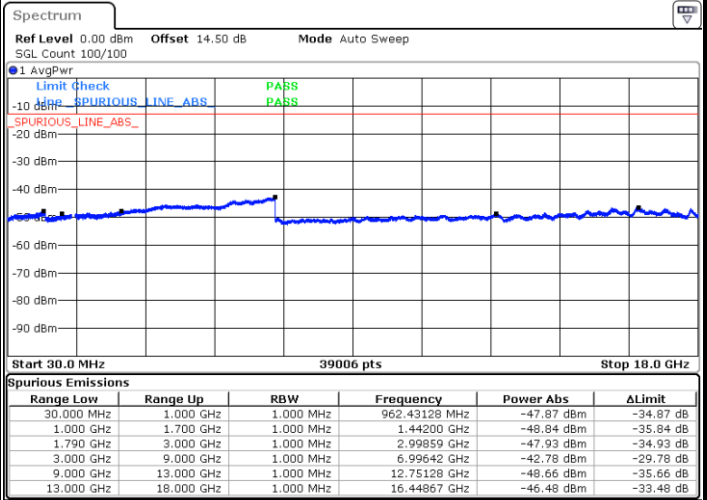
LTE Band 66 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 JUL 2022 17:44:49

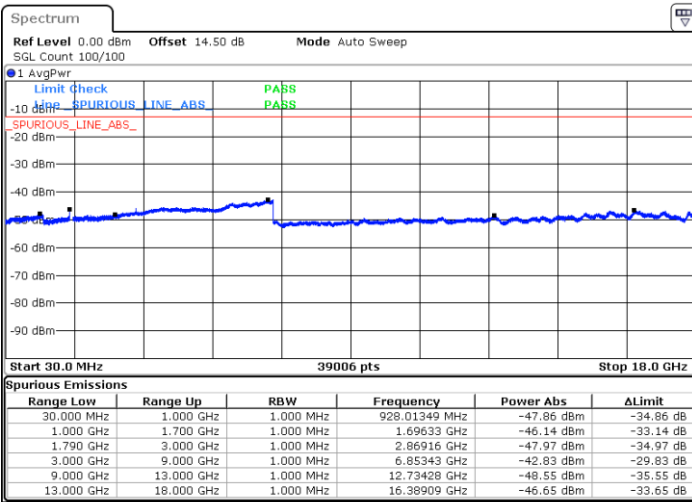


Date: 5 JUL 2022 17:45:39

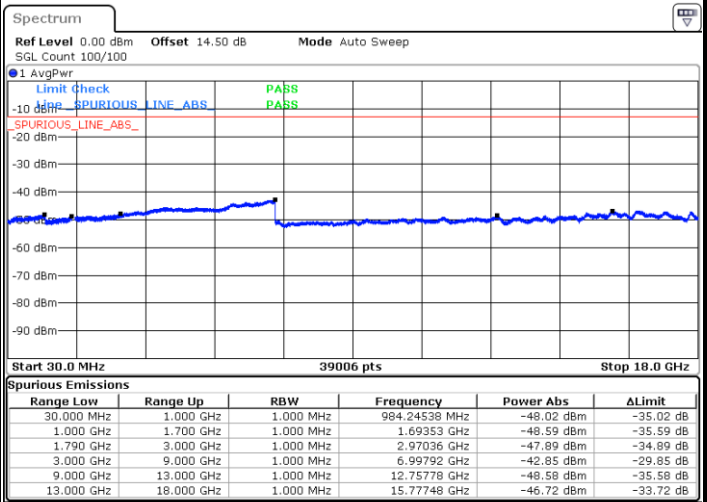
LTE Band 66 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 5 JUL 2022 17:51:55



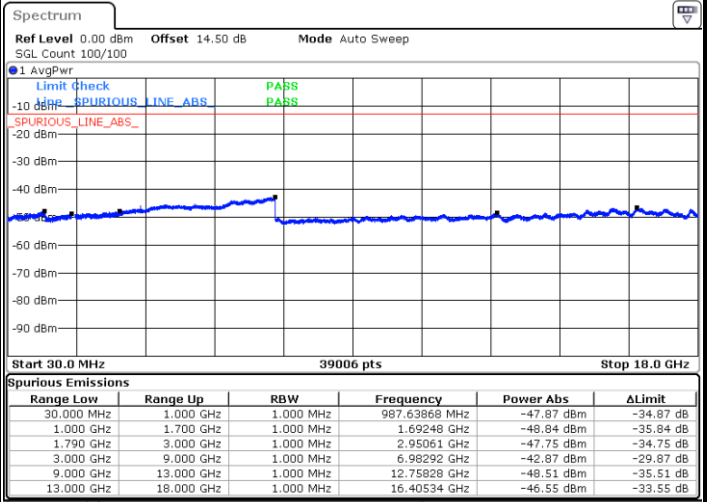
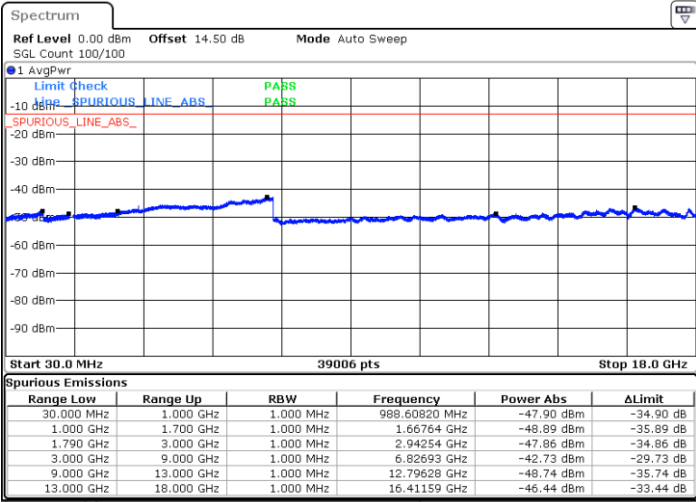
Date: 5 JUL 2022 17:52:45



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

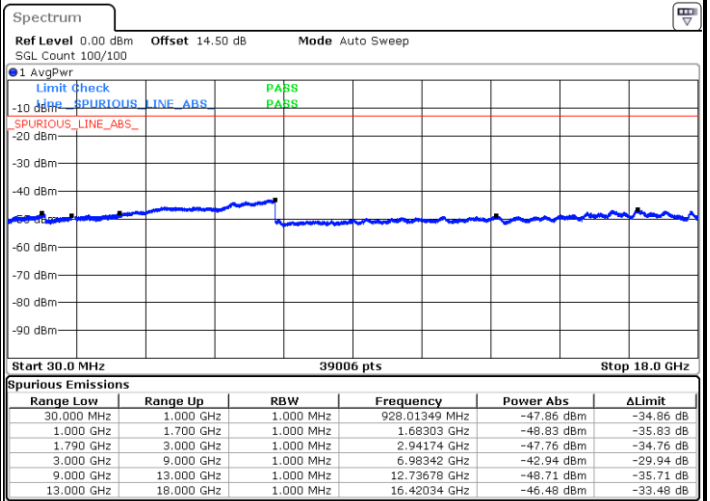
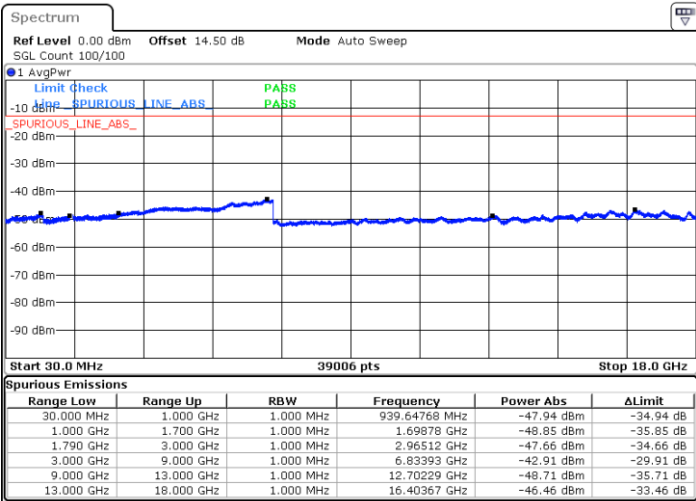


Date: 5 JUL 2022 17:55:01

Date: 5 JUL 2022 17:55:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 JUL 2022 18:02:08

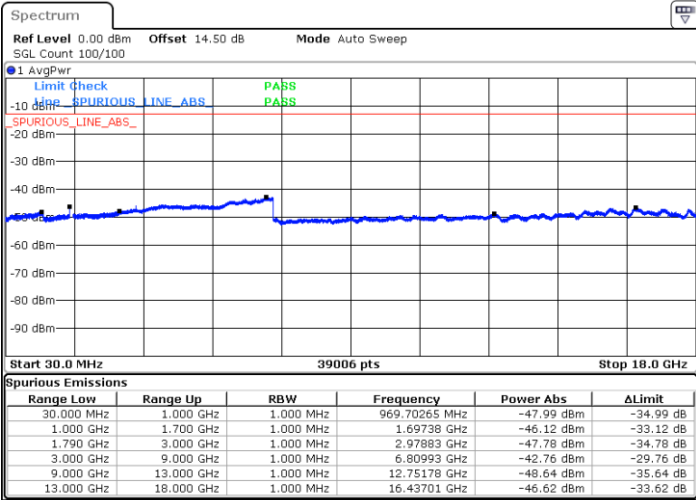
Date: 5 JUL 2022 18:02:58



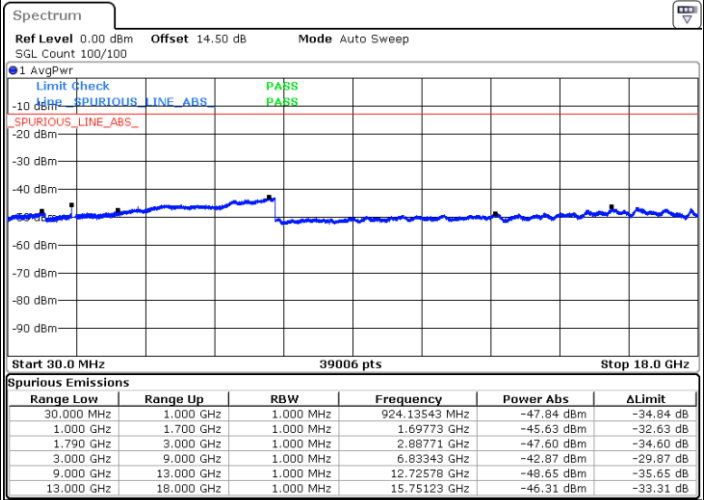
LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



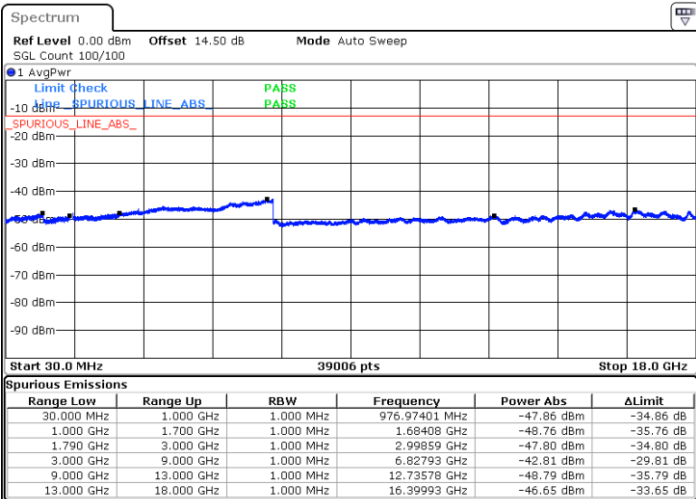
Date: 5 JUL 2022 18:26:33



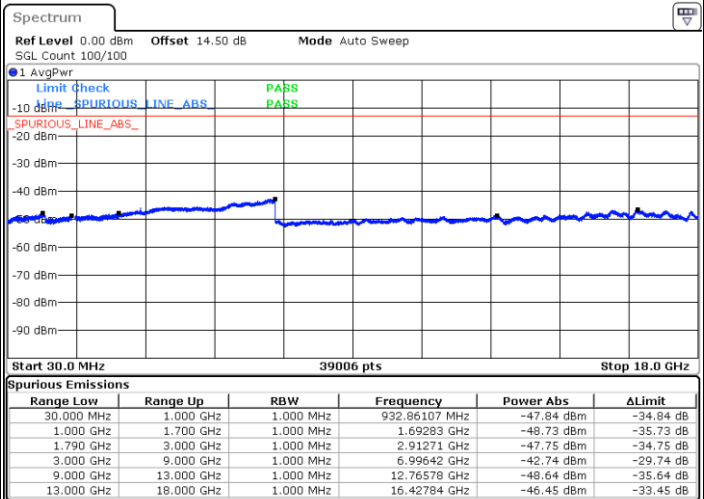
Date: 5 JUL 2022 18:27:23

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 5 JUL 2022 18:29:39

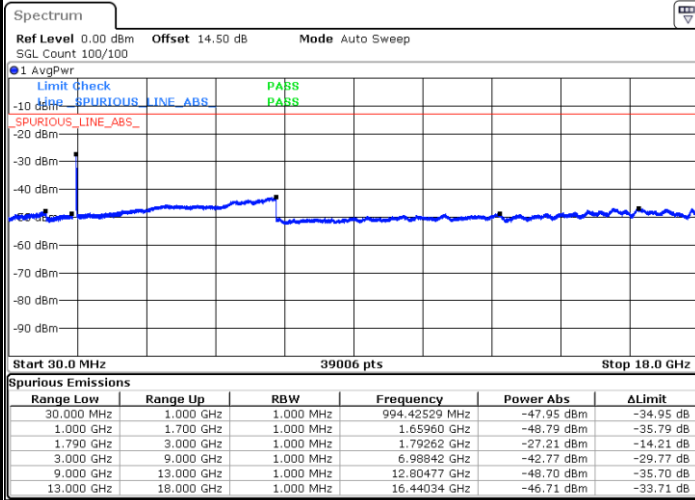


Date: 5 JUL 2022 18:30:29



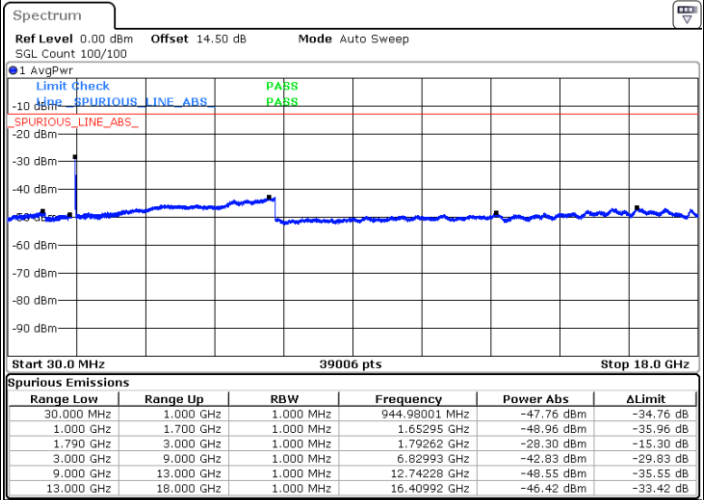
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 5 JUL 2022 18:36:44

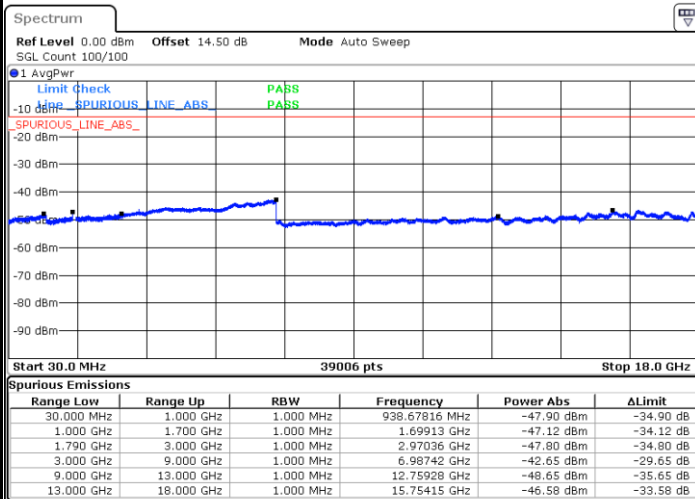
Highest Channel / 16QAM



Date: 5 JUL 2022 18:37:34

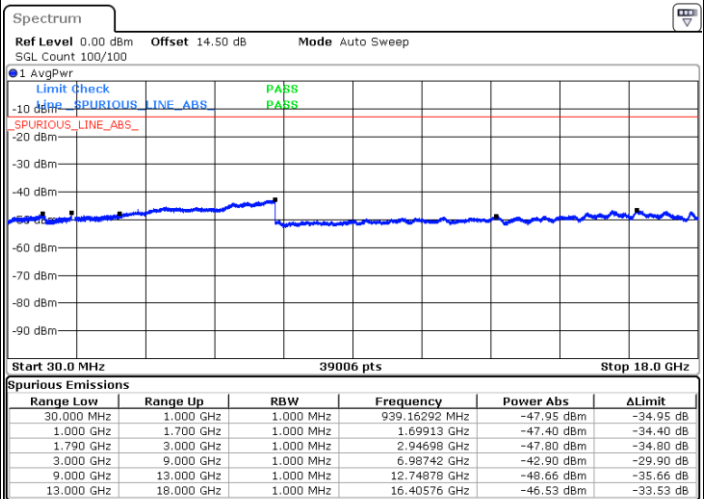
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 5 JUL 2022 18:43:51

Lowest Channel / 16QAM



Date: 5 JUL 2022 18:44:41

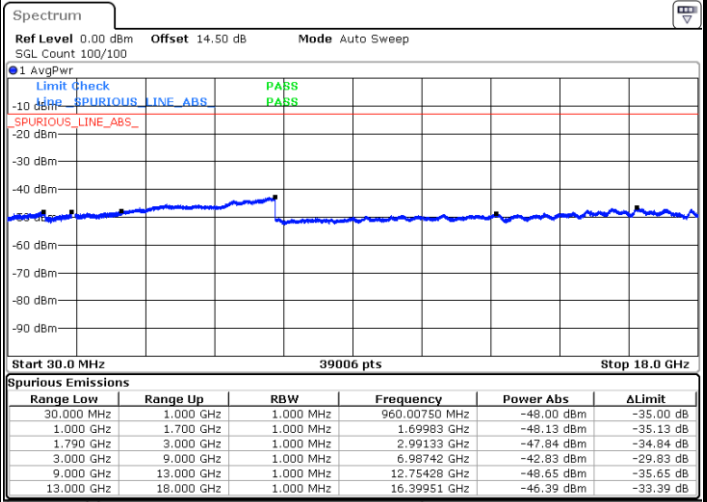
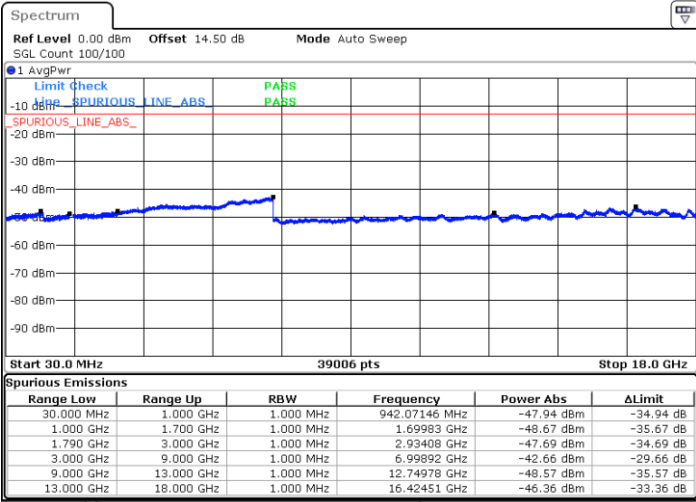




LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

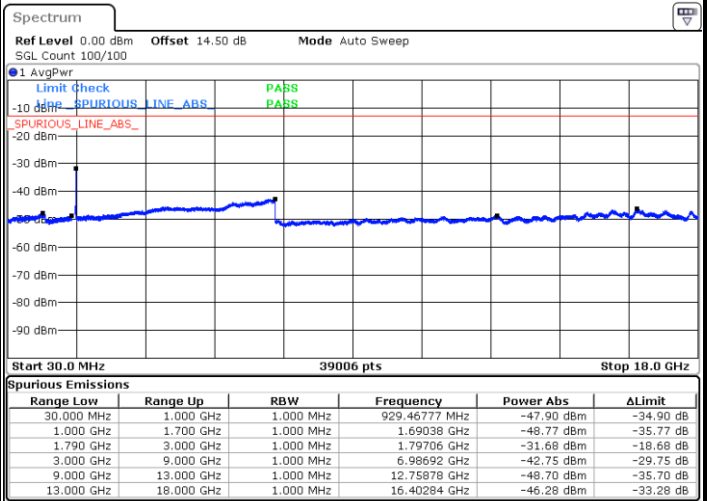
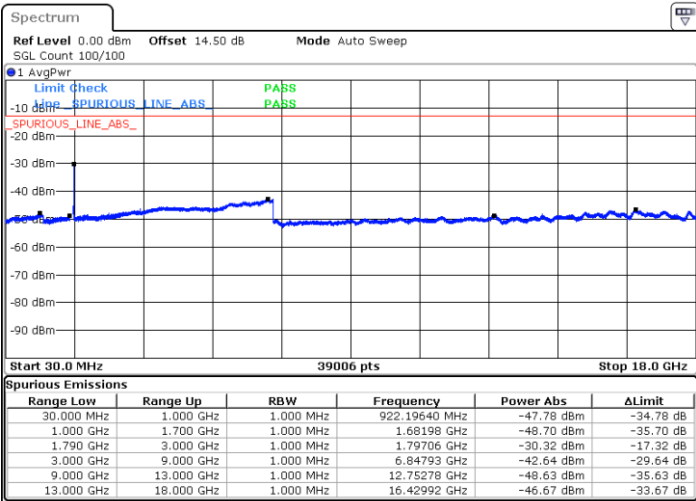


Date: 5 JUL 2022 18:46:57

Date: 5 JUL 2022 18:47:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 JUL 2022 18:54:03

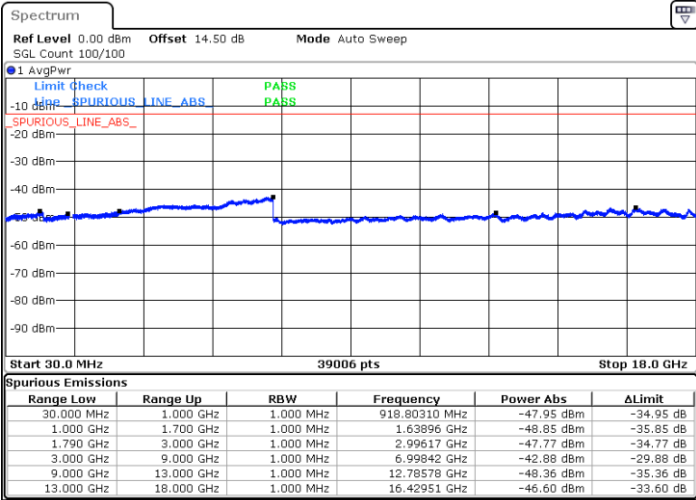
Date: 5 JUL 2022 18:54:53



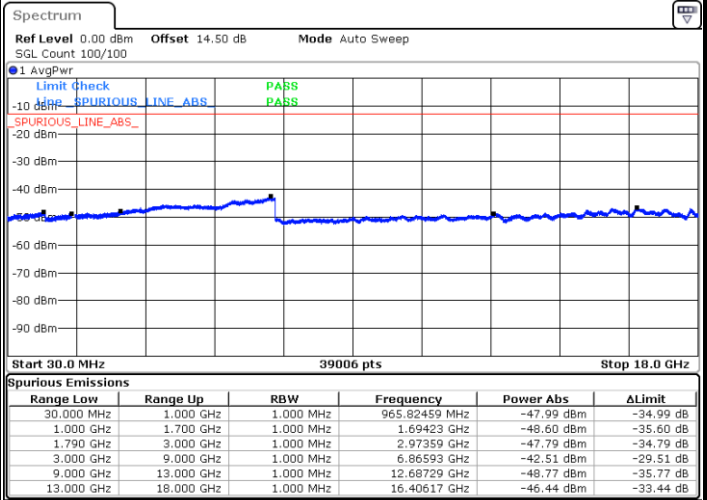
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

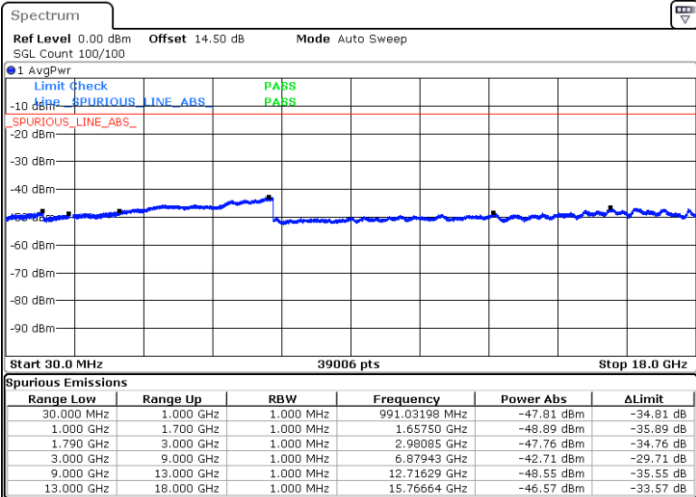


Date: 5 JUL 2022 16:02:04



Date: 5 JUL 2022 16:03:37

Highest Channel / 64QAM



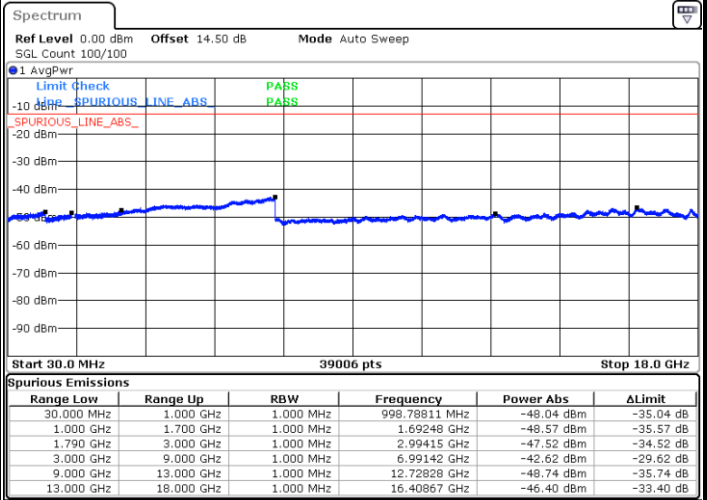
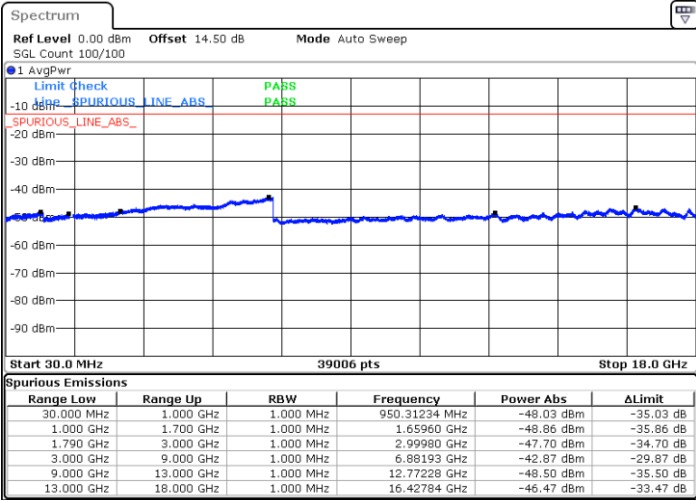
Date: 5 JUL 2022 16:07:49



LTE Band 66 / 3MHz

Lowest Channel / 64QAM

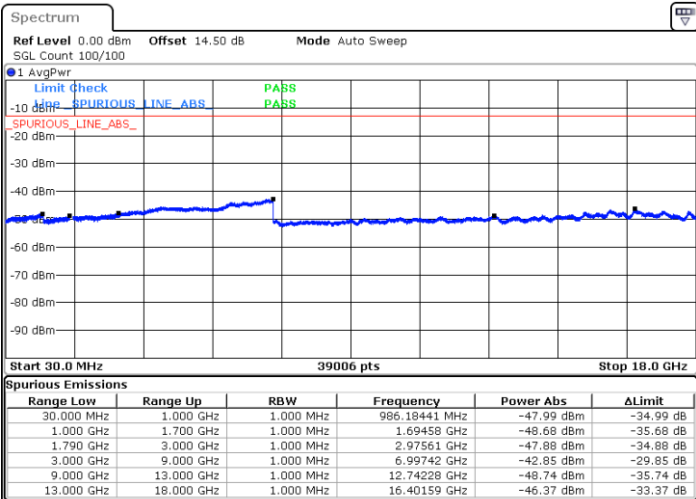
Middle Channel / 64QAM



Date: 5 JUL 2022 16:30:00

Date: 5 JUL 2022 16:31:33

Highest Channel / 64QAM



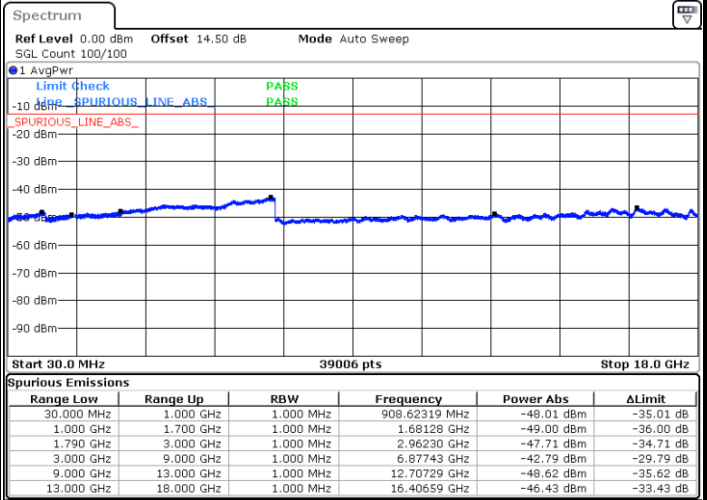
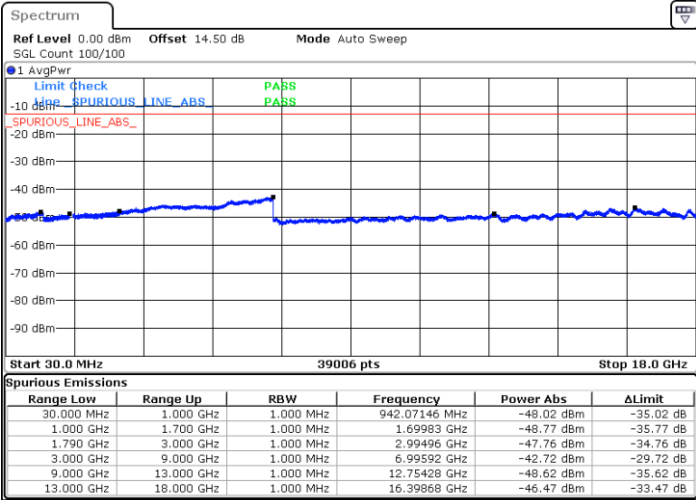
Date: 5 JUL 2022 16:35:06



LTE Band 66 / 5MHz

Lowest Channel / 64QAM

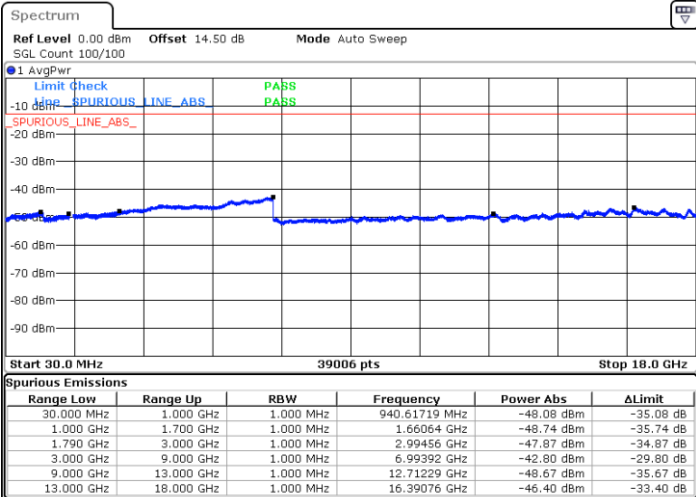
Middle Channel / 64QAM



Date: 5 JUL 2022 16:38:39

Date: 5 JUL 2022 16:40:11

Highest Channel / 64QAM



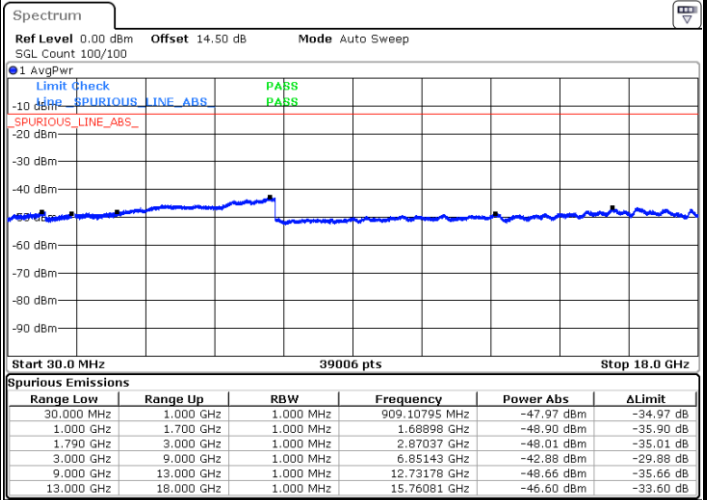
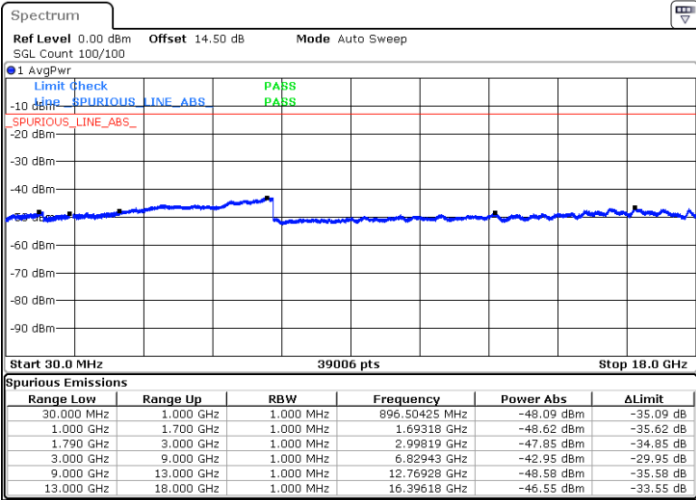
Date: 5 JUL 2022 16:43:44



LTE Band 66 / 10MHz

Lowest Channel / 64QAM

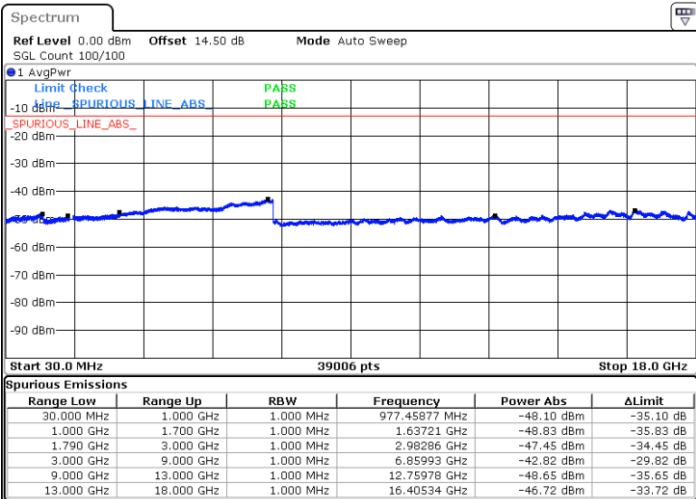
Middle Channel / 64QAM



Date: 5 JUL 2022 18:06:30

Date: 5 JUL 2022 18:08:05

Highest Channel / 64QAM



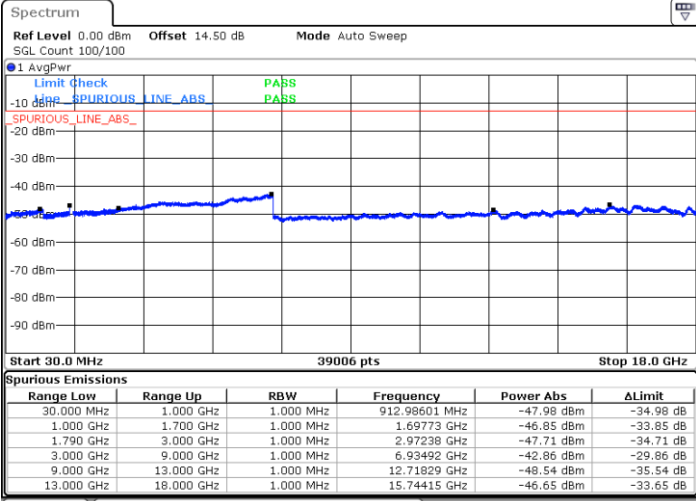
Date: 5 JUL 2022 18:11:38



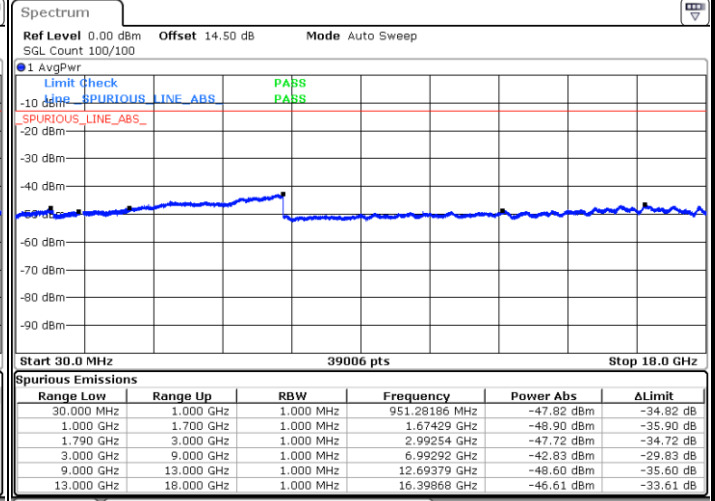
LTE Band 66 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

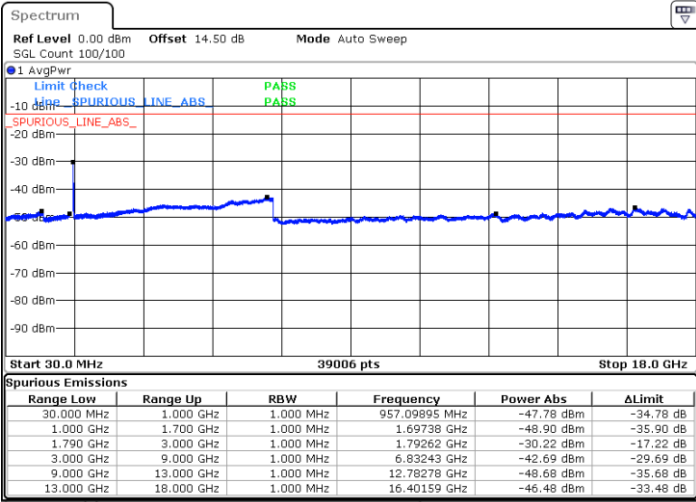


Date: 5 JUL 2022 18:15:11



Date: 5 JUL 2022 18:16:44

Highest Channel / 64QAM



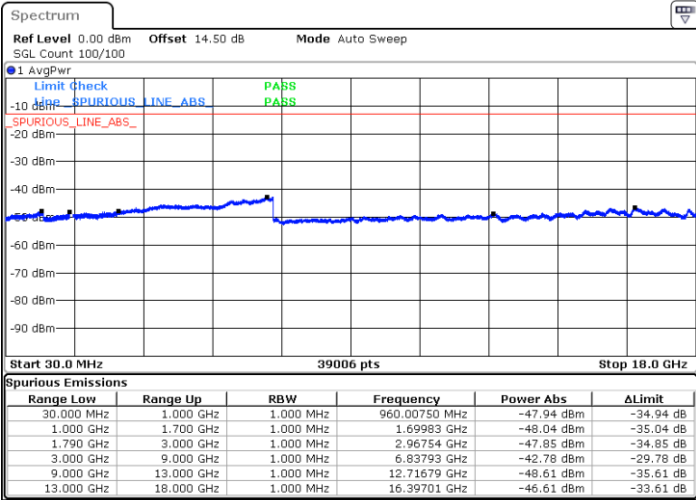
Date: 5 JUL 2022 18:20:17



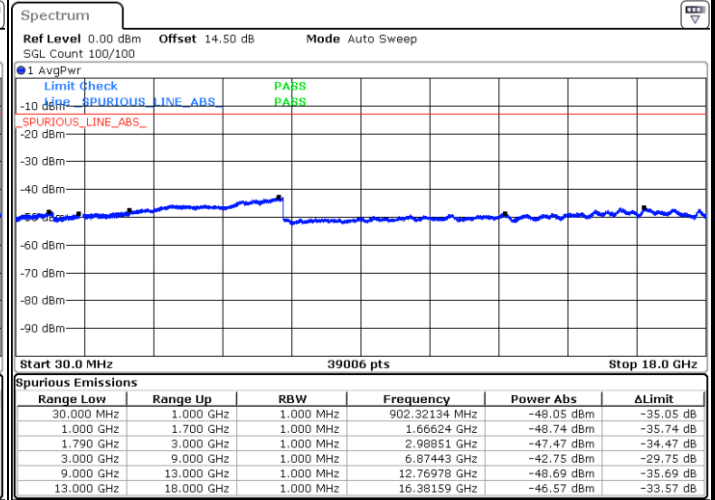
LTE Band 66 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

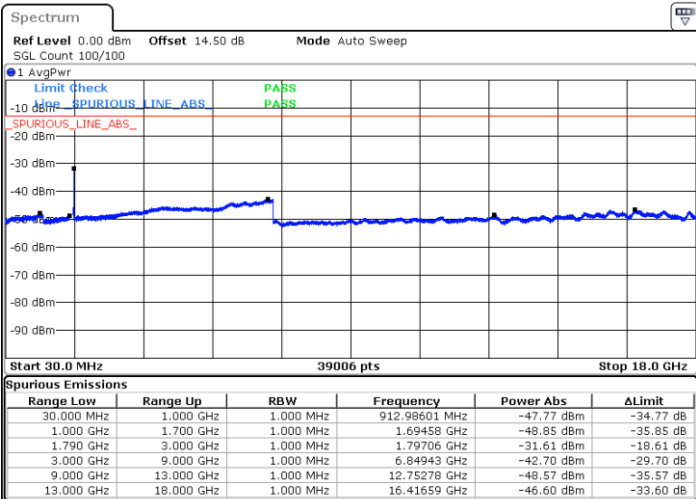


Date: 5 JUL 2022 18:58:26



Date: 5 JUL 2022 18:59:59

Highest Channel / 64QAM



Date: 5 JUL 2022 19:03:31



### Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 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 :	Reid Huang	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna, we choose the worst antenna mode to test.

LTE Band 2 / 20MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742.18	-61.33	-13	-48.33	-79.20	-68.08	5.85	12.60	H
	5613.27	-58.28	-13	-45.28	-80.54	-64.08	7.30	13.10	H
	7484.36	-53.37	-13	-40.37	-79.70	-56.52	8.35	11.50	H
	3742.18	-61.22	-13	-48.22	-79.01	-67.97	5.85	12.60	V
	5613.27	-58.73	-13	-45.73	-81.18	-64.53	7.30	13.10	V
	7484.36	-53.23	-13	-40.23	-79.55	-56.38	8.35	11.50	V

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

LTE Band 7 / 20MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052.18	-56.37	-25	-31.37	-78.31	-61.93	7.14	12.70	H
	7578.27	-53.40	-25	-28.40	-79.50	-56.70	8.30	11.60	H
	10104.36	-48.95	-25	-23.95	-80.54	-50.47	10.48	12.00	H
	5052.18	-56.19	-25	-31.19	-78.25	-61.75	7.14	12.70	V
	7578.27	-53.06	-25	-28.06	-79.12	-56.36	8.30	11.60	V
	10104.36	-50.48	-25	-25.48	-80.67	-52.00	10.48	12.00	V

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

LTE Band 13 / 5MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-66.52	-42.15	-24.37	-75.99	-69.77	4.00	9.40	H
	2339.25	-63.64	-13	-50.64	-77.96	-67.21	4.88	10.60	H
	3119	-60.76	-13	-47.76	-78.33	-65.69	5.52	12.60	H
	1559.5	-66.33	-42.15	-24.18	-75.88	-69.58	4.00	9.40	V
	2339.25	-63.23	-13	-50.23	-77.55	-66.80	4.88	10.60	V
	3119	-60.73	-13	-47.73	-78.34	-65.66	5.52	12.60	V

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



LTE Band 13 / 10MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-66.30	-42.15	-24.15	-75.77	-69.55	4.00	9.40	H
	2339.25	-63.07	-13	-50.07	-77.39	-66.64	4.88	10.60	H
	3119	-60.46	-13	-47.46	-78.03	-65.39	5.52	12.60	H
	1559.5	-66.19	-42.15	-24.04	-75.74	-69.44	4.00	9.40	V
	2339.25	-63.47	-13	-50.47	-77.79	-67.04	4.88	10.60	V
	3119	-60.94	-13	-47.94	-78.55	-65.87	5.52	12.60	V

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

LTE Band 26 / 15MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659.5	-66.33	-13	-53.33	-75.83	-69.58	4.00	9.40	H
	2489.25	-63.55	-13	-50.55	-77.65	-67.12	4.88	10.60	H
	3319	-62.48	-13	-49.48	-78.86	-67.41	5.52	12.60	H
	1659.5	-66.94	-13	-53.94	-76.04	-70.19	4.00	9.40	V
	2489.25	-63.45	-13	-50.45	-77.51	-67.02	4.88	10.60	V
	3319	-62.47	-13	-49.47	-78.63	-67.40	5.52	12.60	V

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

LTE Band 41 / 20MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168.18	-56.42	-25	-31.42	-78.06	-61.98	7.14	12.70	H
	7752.27	-51.56	-25	-26.56	-77.92	-54.86	8.30	11.60	H
	10336.36	-48.84	-25	-23.84	-80.43	-50.36	10.48	12.00	H
	5168.18	-55.72	-25	-30.72	-77.63	-61.28	7.14	12.70	V
	7752.27	-50.98	-25	-25.98	-77.19	-54.28	8.30	11.60	V
	10336.36	-50.03	-25	-25.03	-80.71	-51.55	10.48	12.00	V

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



LTE Band 66 / 20MHz / QPSK (ANT0) for Sample 1									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-62.18	-13	-49.18	-79.12	-69.03	5.65	12.50	H
	5208	-59.46	-13	-46.46	-80.89	-65.13	7.13	12.80	H
	6944	-54.13	-13	-41.13	-80.05	-57.53	8.40	11.80	H
	3472	-62.18	-13	-49.18	-79.14	-69.03	5.65	12.50	V
	5208	-58.84	-13	-45.84	-80.52	-64.51	7.13	12.80	V
	6944	-53.63	-13	-40.63	-80.02	-57.03	8.40	11.80	V

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

LTE Band 41 / 20MHz / QPSK (ANT0) for Sample 2									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168.18	-58.98	-25	-33.98	-80.62	-64.54	7.14	12.70	H
	7752.27	-53.14	-25	-28.14	-79.50	-56.44	8.30	11.60	H
	10336.36	-48.29	-25	-23.29	-79.88	-49.81	10.48	12.00	H
	5168.18	-58.77	-25	-33.77	-80.68	-64.33	7.14	12.70	V
	7752.27	-53.15	-25	-28.15	-79.36	-56.45	8.30	11.60	V
	10336.36	-49.04	-25	-24.04	-79.72	-50.56	10.48	12.00	V