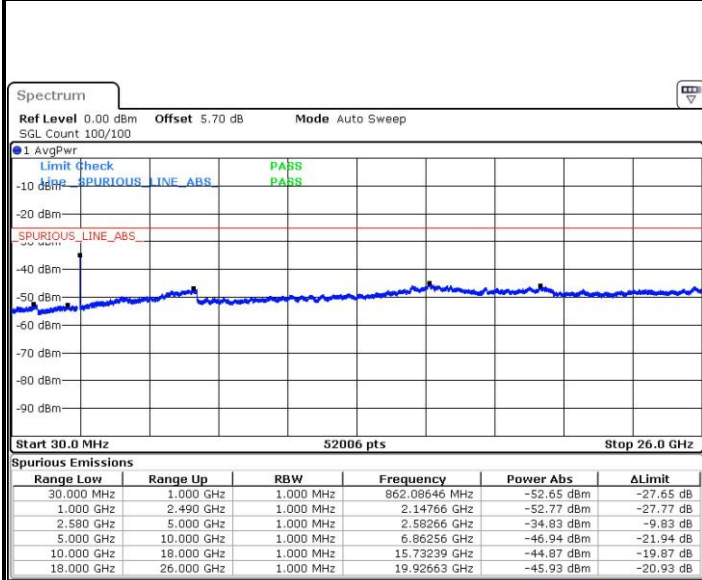




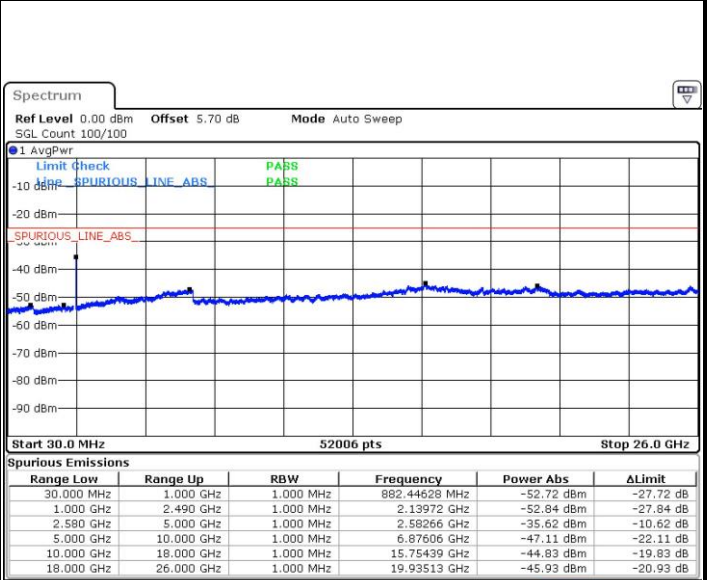
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 16.MAR.2019 15:21:21

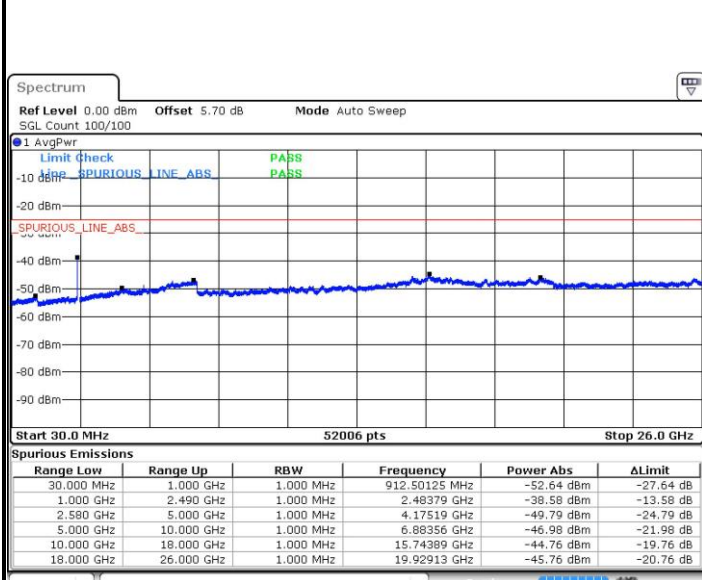
Highest Channel / 16QAM



Date: 16.MAR.2019 15:22:12

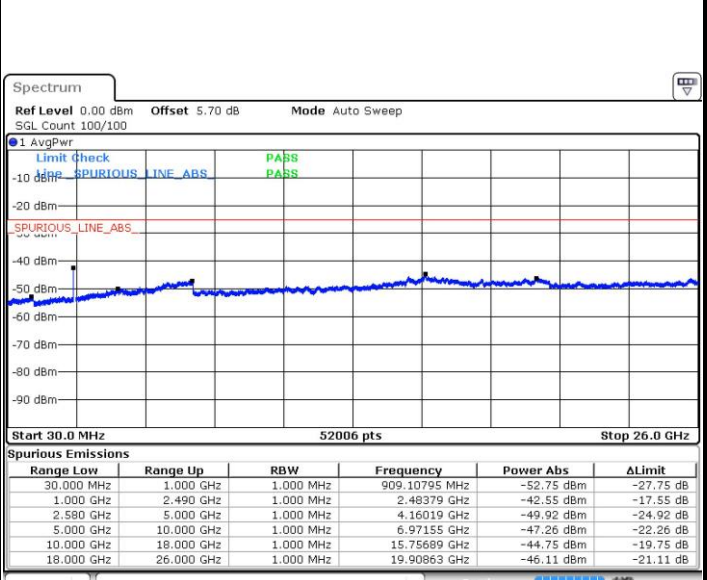
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 16.MAR.2019 15:36:48

Lowest Channel / 16QAM



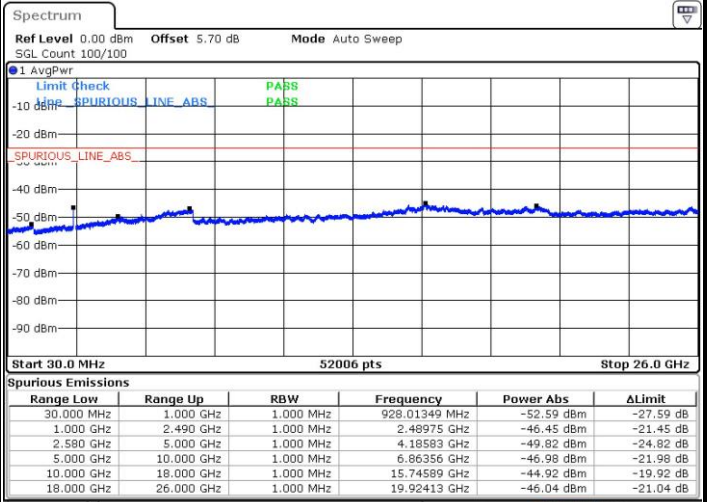
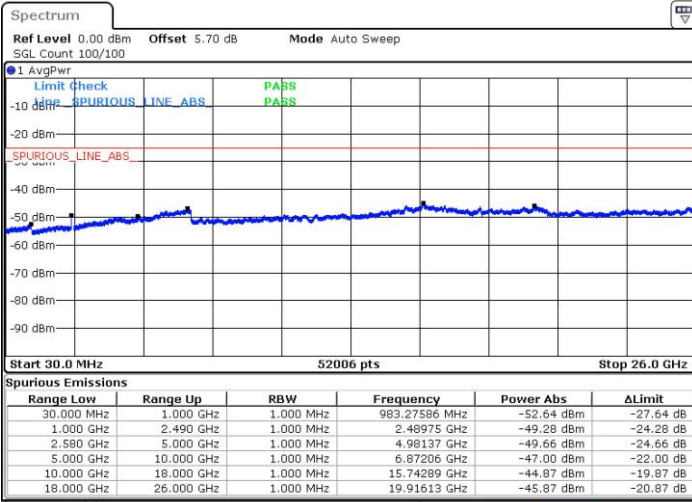
Date: 16.MAR.2019 15:39:17



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

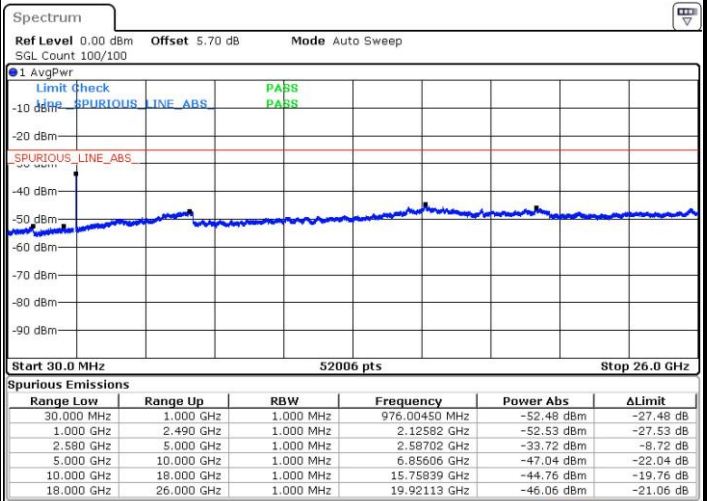
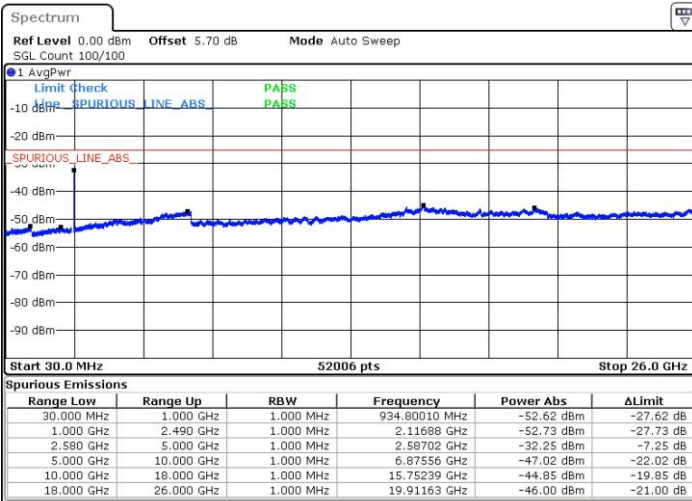


Date: 16.MAR.2019 15:41:07

Date: 16.MAR.2019 15:42:09

Highest Channel / QPSK

Highest Channel / 16QAM



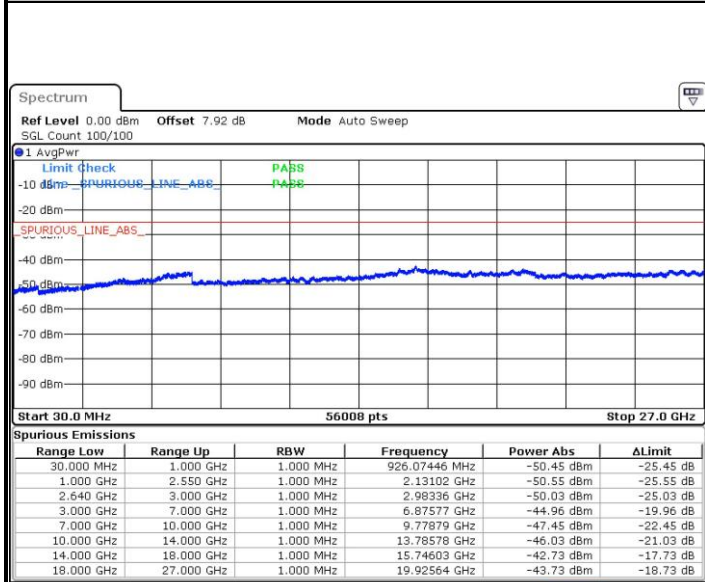
Date: 16.MAR.2019 15:44:05

Date: 16.MAR.2019 15:44:56



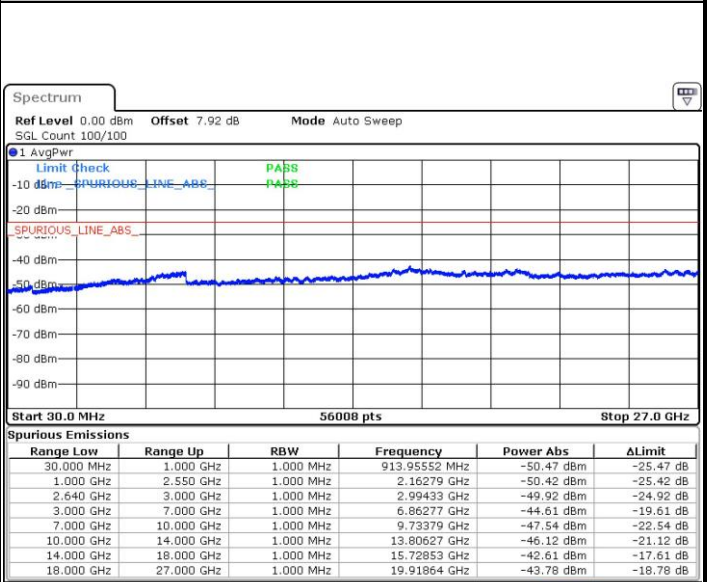
LTE Band 38 / 5MHz

Lowest Channel / QPSK



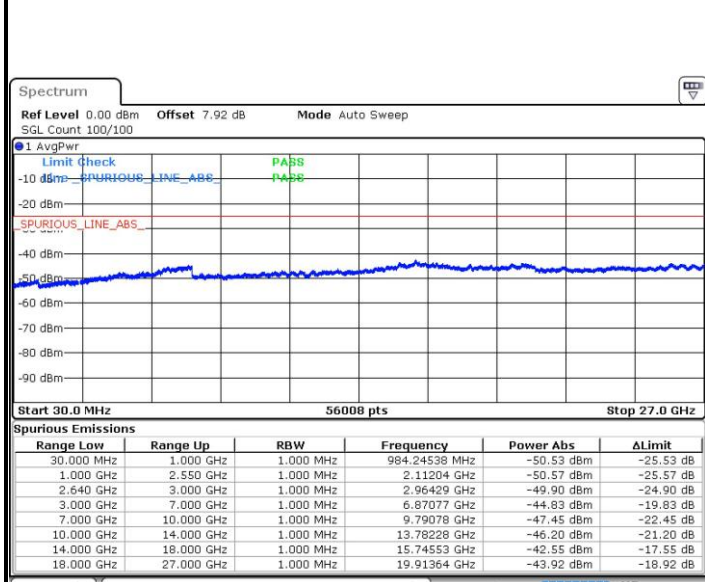
Date: 19.MAR.2019 14:49:50

Lowest Channel / 16QAM



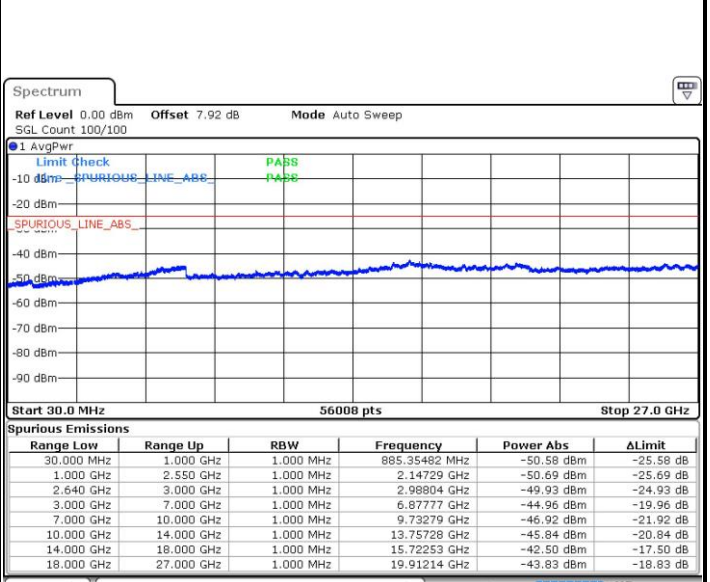
Date: 19.MAR.2019 14:51:57

Middle Channel / QPSK



Date: 19.MAR.2019 14:55:26

Middle Channel / 16QAM

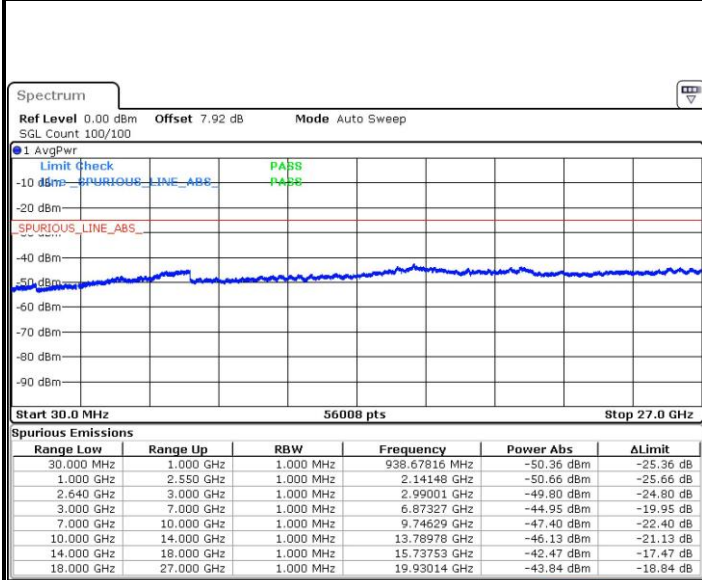


Date: 19.MAR.2019 14:54:36



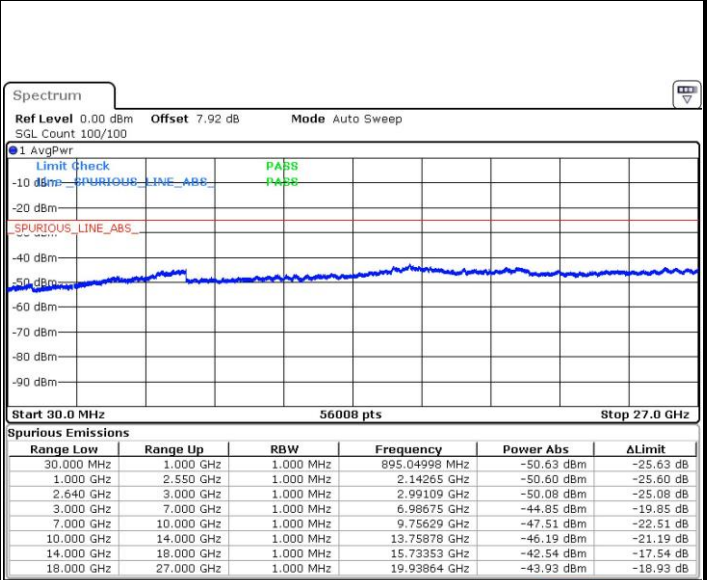
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 19.MAR.2019 14:56:22

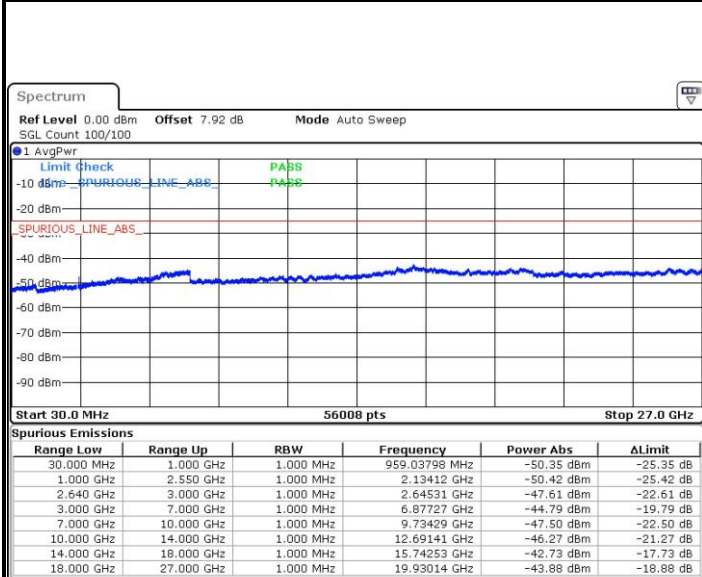
Highest Channel / 16QAM



Date: 19.MAR.2019 14:57:14

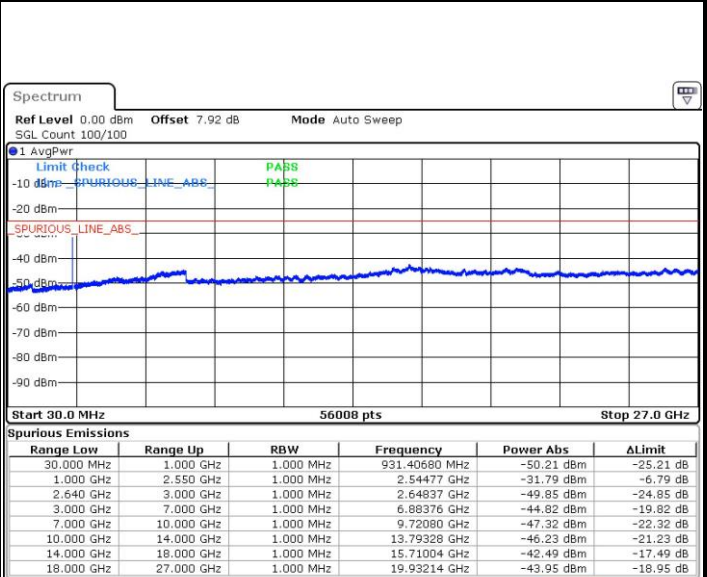
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 19.MAR.2019 15:11:30

Lowest Channel / 16QAM

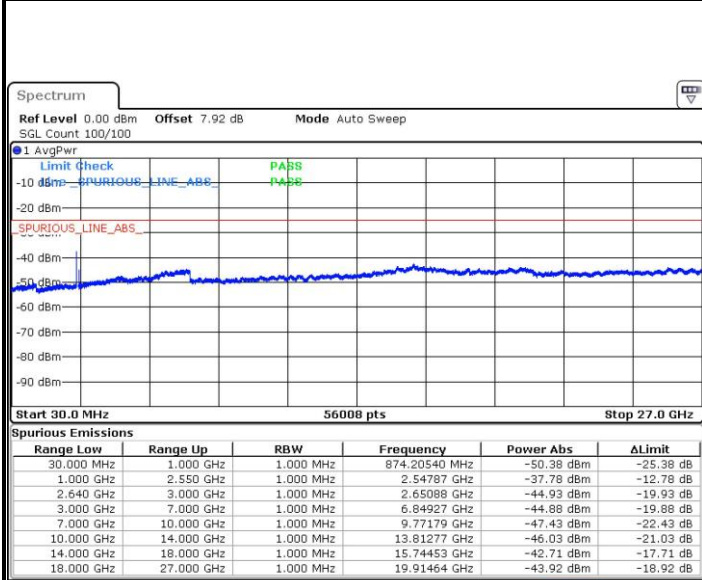


Date: 19.MAR.2019 15:12:26



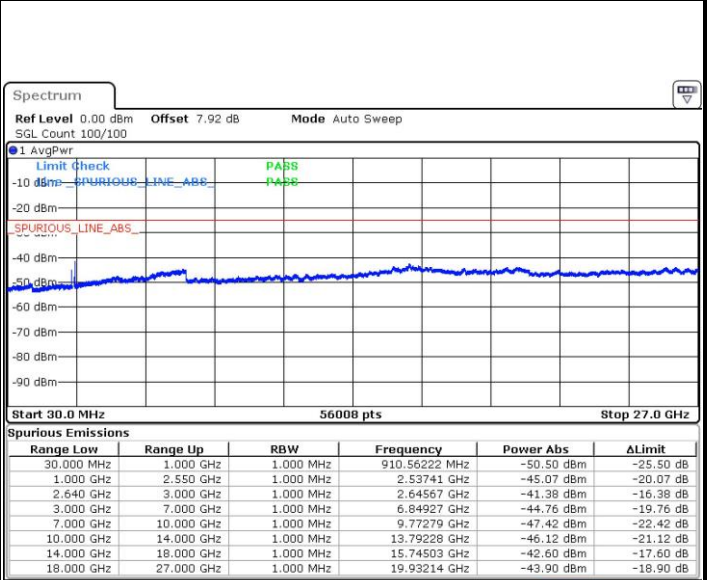
LTE Band 38 / 10MHz

Middle Channel / QPSK



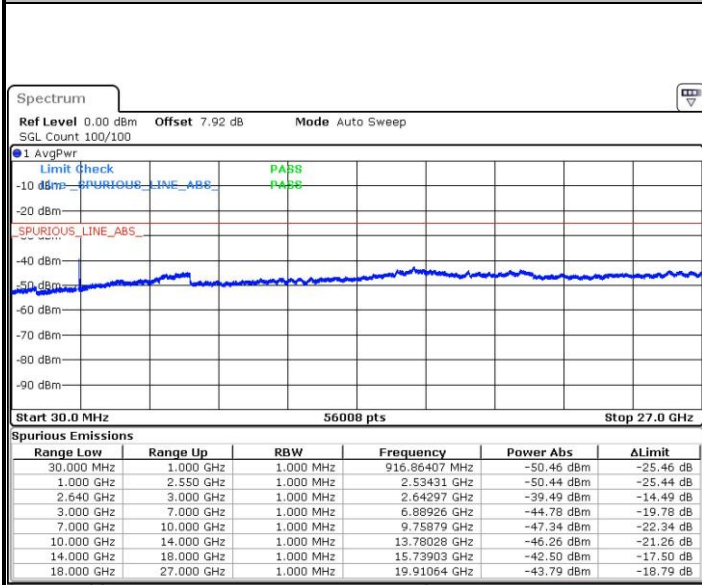
Date: 19.MAR.2019 15:14:13

Middle Channel / 16QAM



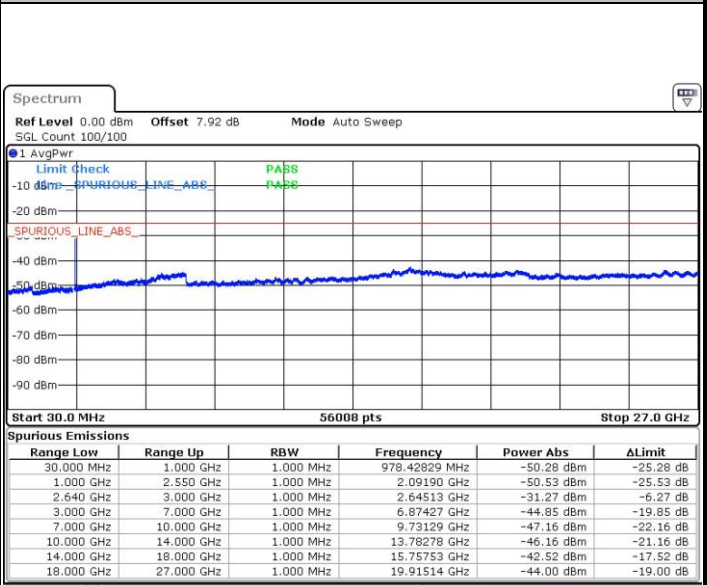
Date: 19.MAR.2019 15:15:05

Highest Channel / QPSK



Date: 19.MAR.2019 15:16:53

Highest Channel / 16QAM



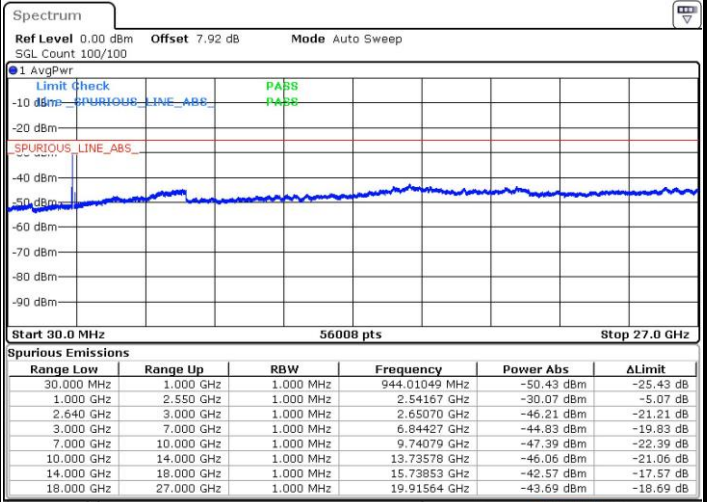
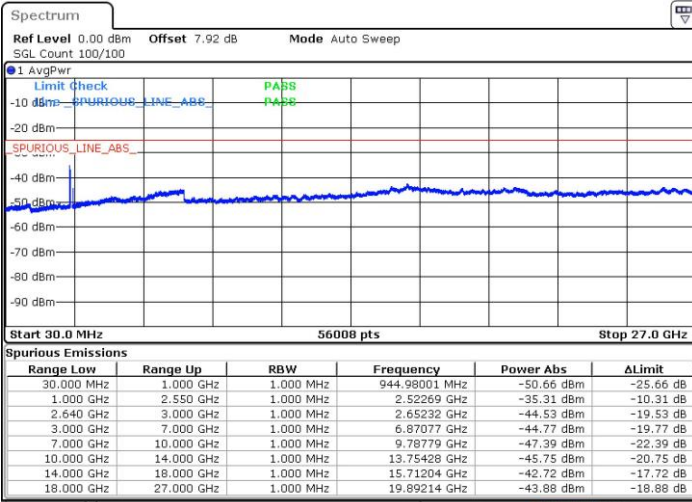
Date: 19.MAR.2019 15:17:43



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

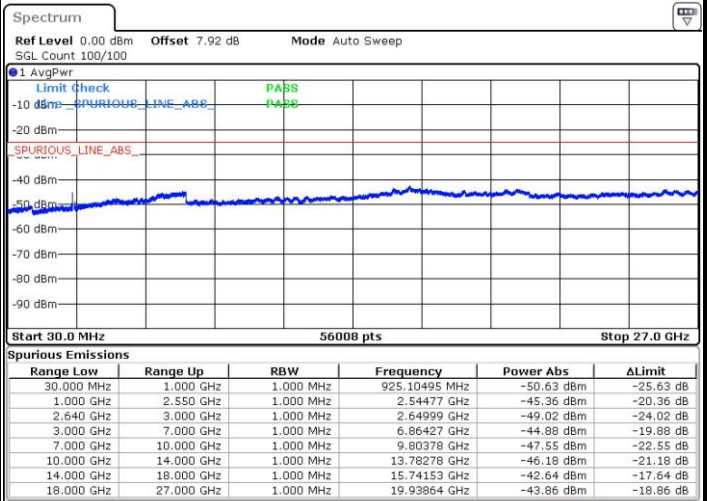
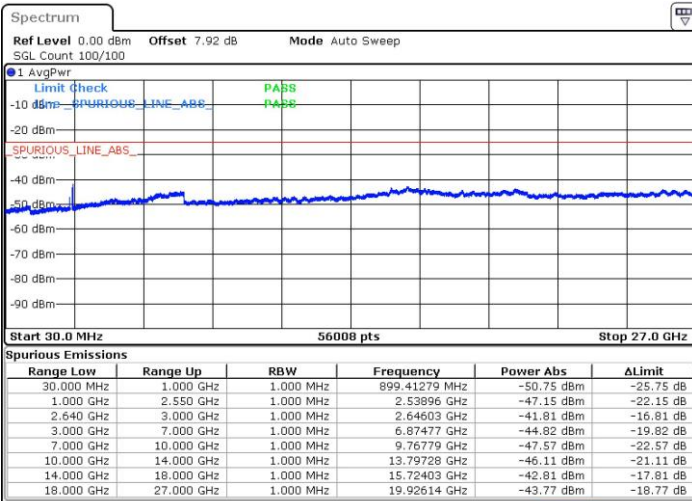


Date: 19.MAR.2019 15:29:52

Date: 19.MAR.2019 15:31:35

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 19.MAR.2019 15:33:23

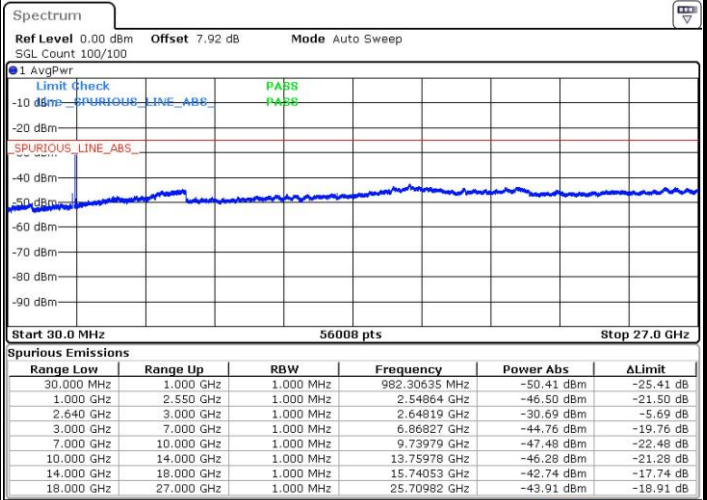
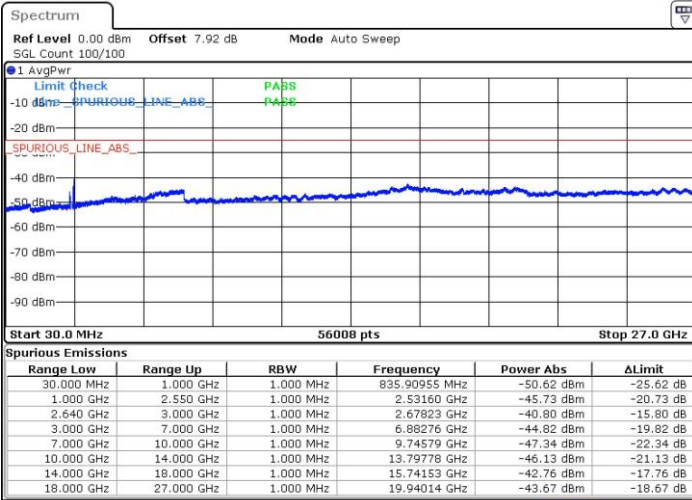
Date: 19.MAR.2019 15:34:16



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



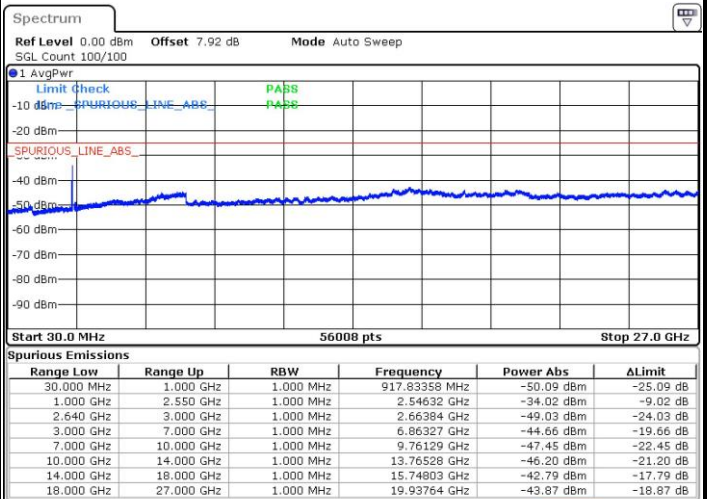
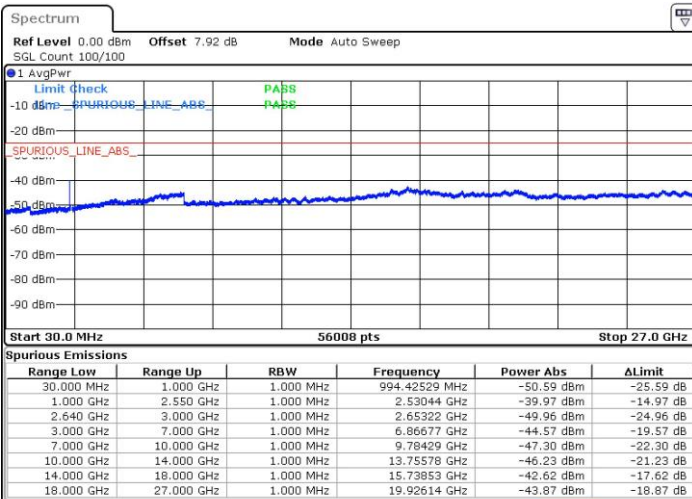
Date: 19.MAR.2019 15:36:16

Date: 19.MAR.2019 15:37:14

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 19.MAR.2019 15:47:24

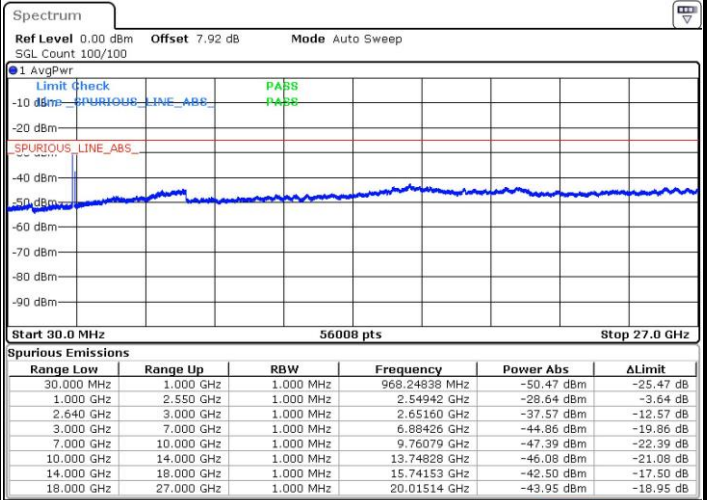
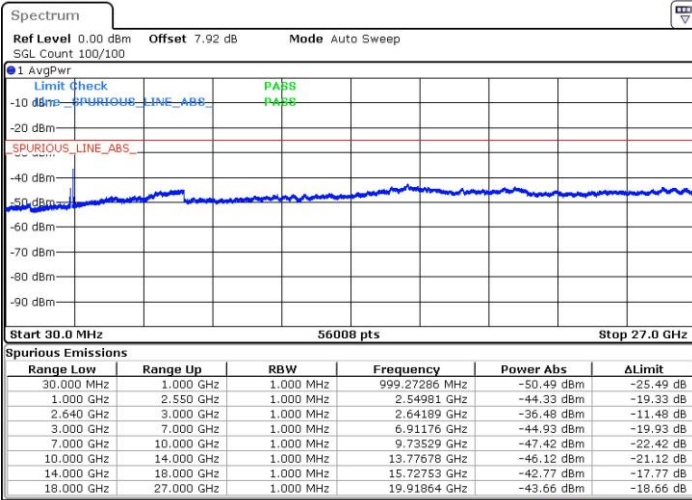
Date: 19.MAR.2019 15:48:32



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

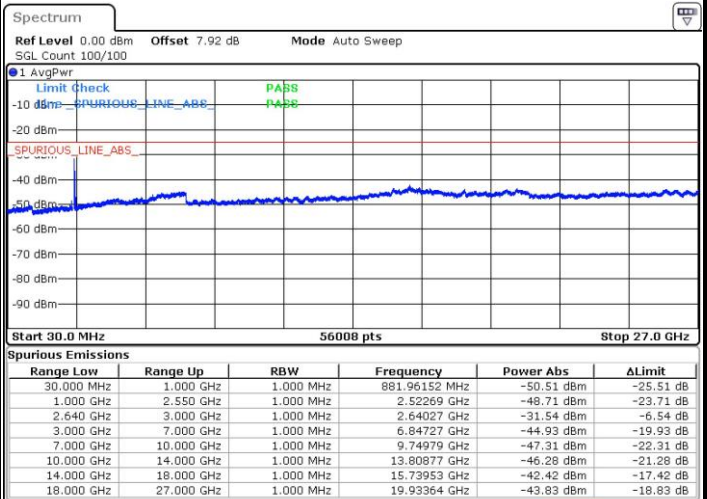
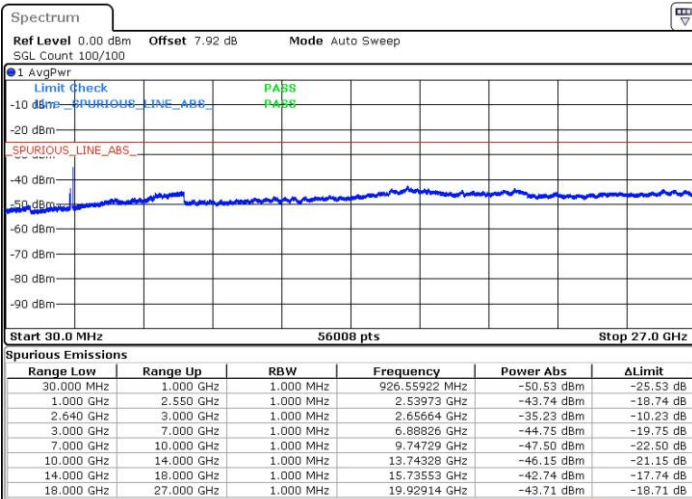


Date: 19.MAR.2019 15:50:42

Date: 19.MAR.2019 15:51:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.MAR.2019 15:53:33

Date: 19.MAR.2019 15:54:27



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.00023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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)
Middle	3744	-56.76	-13	-43.76	-69.02	2.641	14.90	H
	5610	-56.09	-13	-43.09	-67.95	2.94	14.80	H
	7482	-51.95	-13	-38.95	-61.72	3.39	13.16	H
	3744	-50.04	-13	-37.04	-62.30	2.64	14.90	V
	5616	-55.26	-13	-42.26	-67.12	2.94	14.80	V
	7484.36	-51.59	-13	-38.59	-61.36	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)
Middle	3444	-53.76	-13	-40.76	-64.50	2.604	13.34	H
	5172	-42.69	-13	-29.69	-53.20	3.011	13.52	H
	6894	-53.30	-13	-40.30	-63.81	3.011	13.52	H
	8616	-33.95	-13	-20.95	-44.15	3.271	13.47	H
	3444	-47.64	-13	-34.64	-58.38	2.604	13.34	V
	5172	-40.13	-13	-27.13	-50.87	2.604	13.34	V
	6894	-51.05	-13	-38.05	-61.56	3.011	13.52	V
	8616	-31.89	-13	-18.89	-42.09	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)
Middle	1664	-59.90	-13	-46.90	-66.87	1.58	10.70	H
	2496	-59.82	-13	-46.82	-68.07	2.102	12.50	H
	3330	-63.24	-13	-50.24	-72.13	2.856	13.90	H
	1664	-58.91	-13	-45.91	-65.88	1.58	10.70	V
	2496	-55.61	-13	-42.61	-63.86	2.10	12.50	V
	3330	-62.96	-13	-49.96	-71.85	2.86	13.90	V

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

LTE Band 7 / 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)
Middle	5052	-65.90	-25	-40.90	-76.11	3.03	13.24	H
	7580	-60.89	-25	-35.89	-70.34	3.56	13.01	H
	10100	-58.00	-25	-33.00	-67.52	3.92	13.44	H
	5052	-65.13	-25	-40.13	-75.34	3.03	13.24	V
	7580	-60.19	-25	-35.19	-69.64	3.56	13.01	V
	10100	-58.91	-25	-33.91	-68.43	3.92	13.44	V

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

LTE Band 38 / 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)
Middle	5172	-65.68	-25	-40.68	-75.89	3.03	13.24	H
	7758.27	-60.67	-25	-35.67	-70.12	3.56	13.01	H
	10340	-58.31	-25	-33.31	-67.83	3.92	13.44	H
	5172	-63.76	-25	-38.76	-73.97	3.03	13.24	V
	7760	-60.23	-25	-35.23	-69.68	3.56	13.01	V
	10340	-57.99	-25	-32.99	-67.51	3.92	13.44	V

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