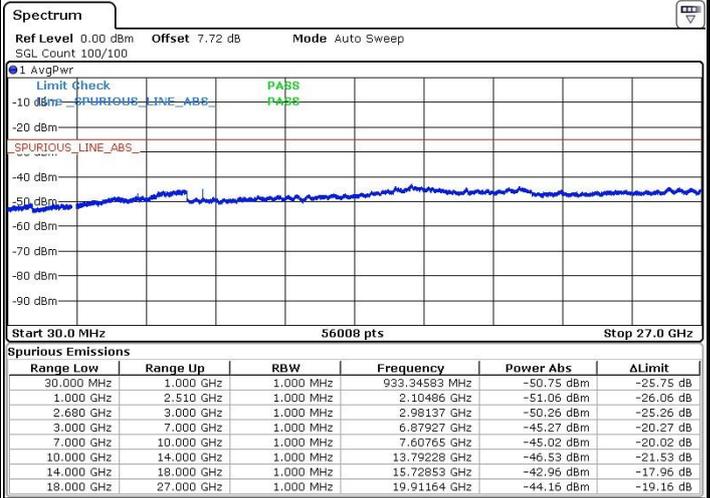
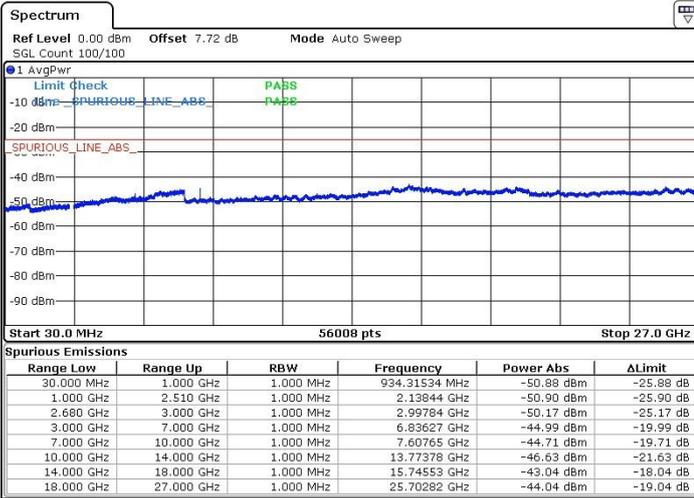




LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

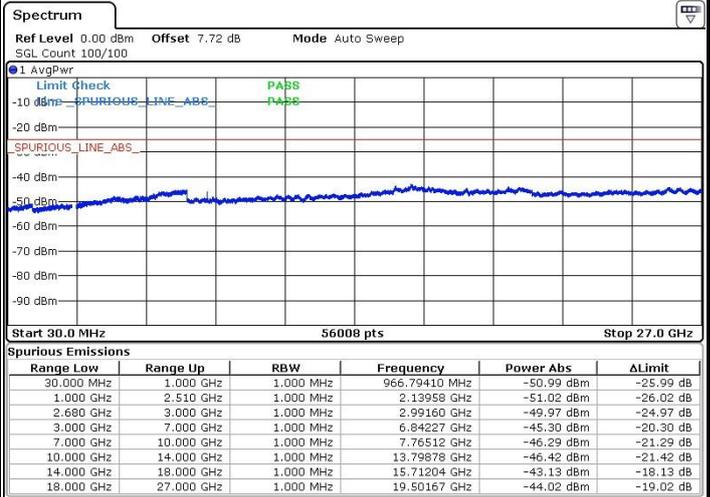
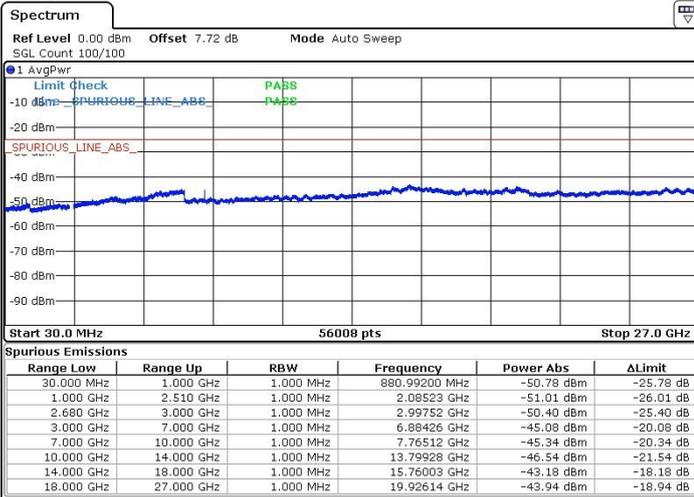


Date: 16.OCT.2018 22:17:27

Date: 16.OCT.2018 22:16:39

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 16.OCT.2018 22:13:17

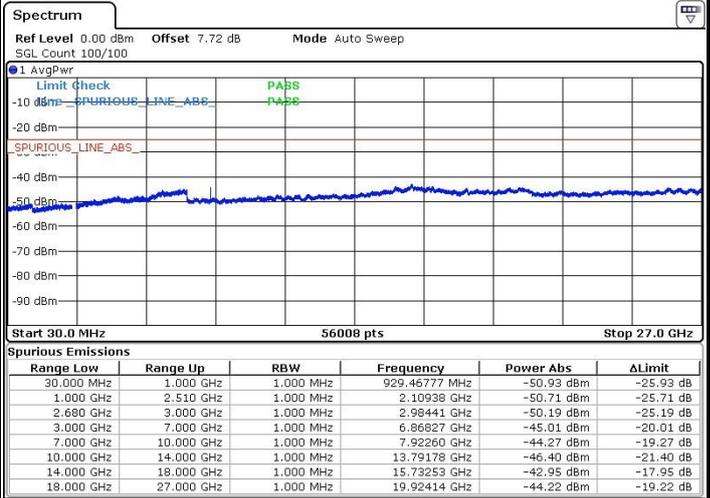
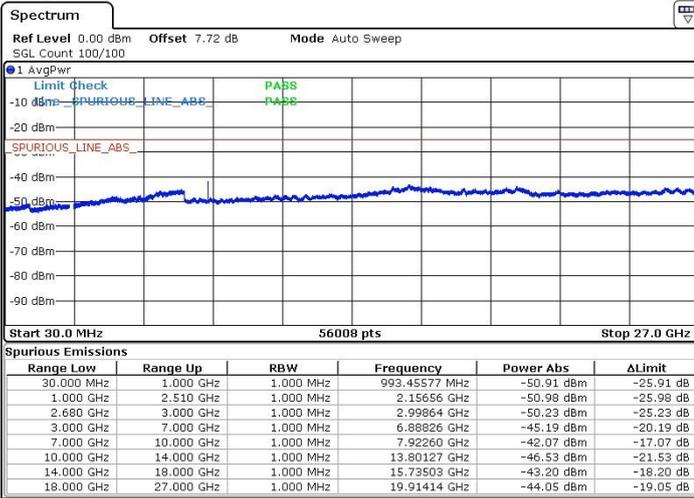
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LTE Band 41 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



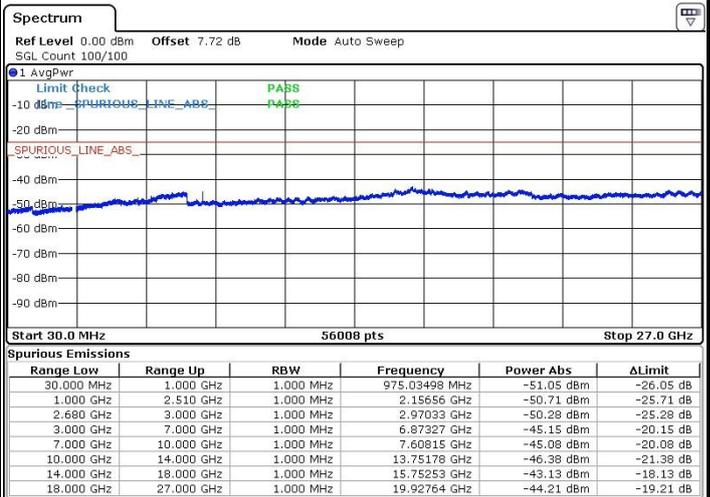
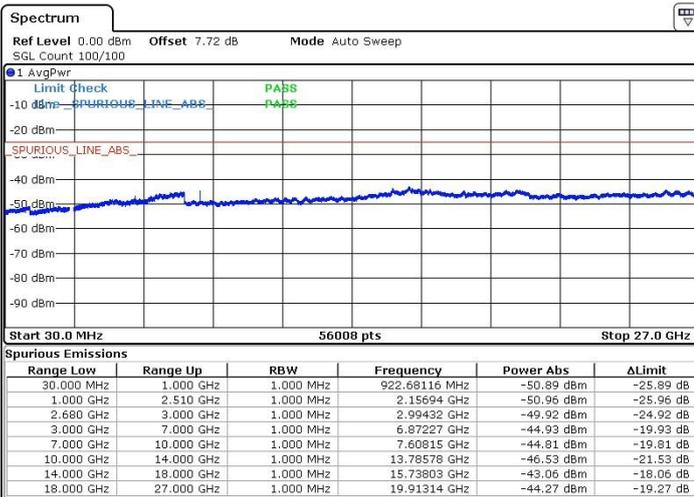
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Date: 16.OCT.2018 22:19:24

LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 16.OCT.2018 22:26:23

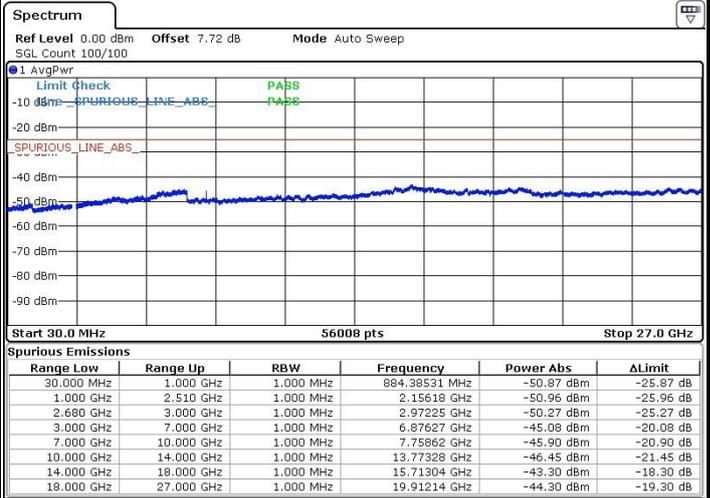
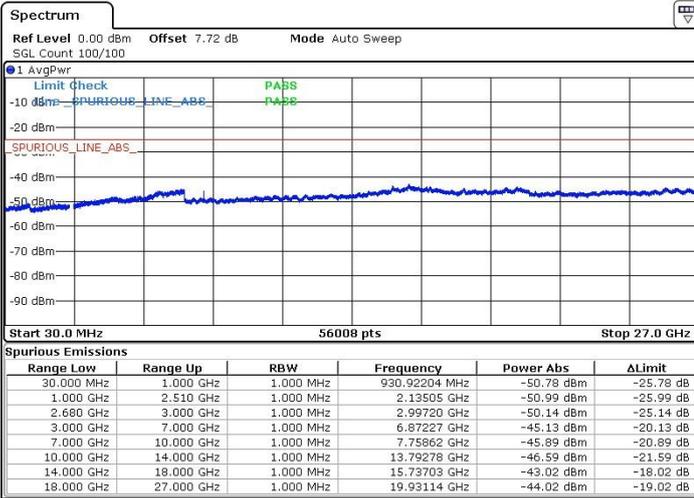
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LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

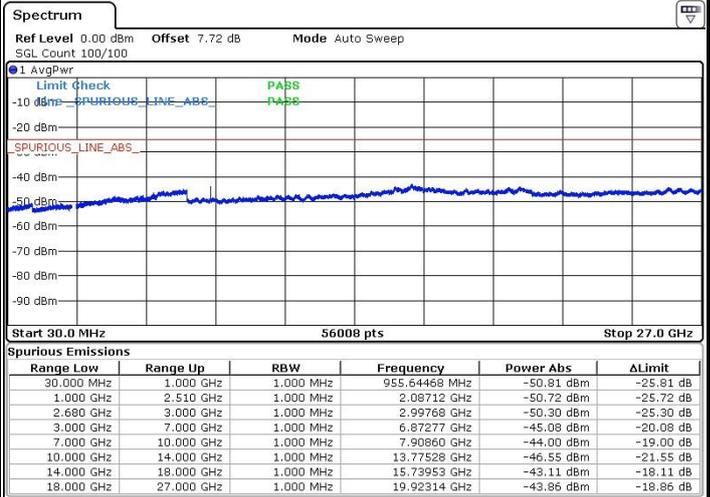
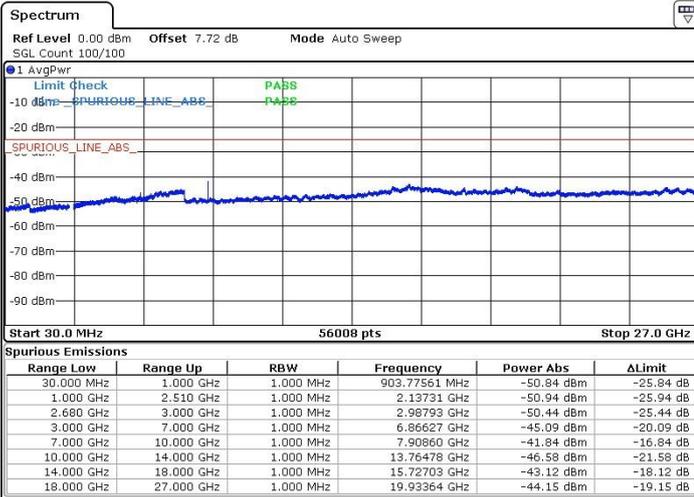


Date: 16.OCT.2018 22:21:20

Date: 16.OCT.2018 22:22:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.OCT.2018 22:27:42

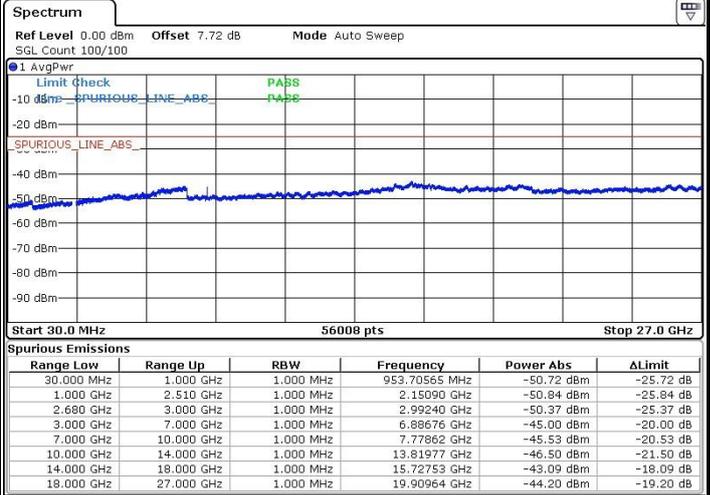
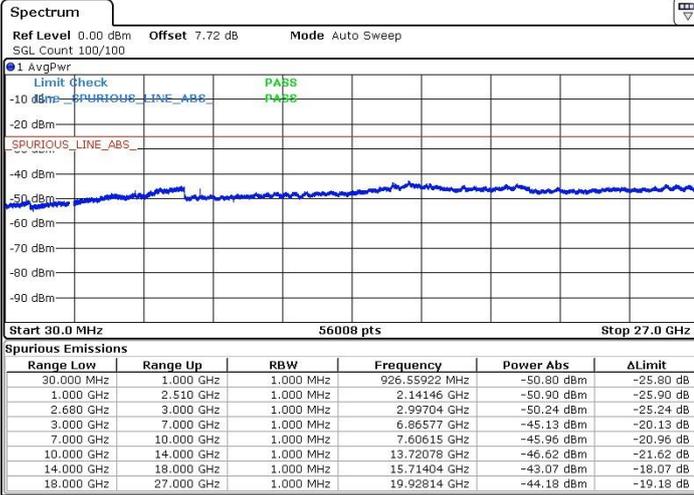
Date: 16.OCT.2018 22:28:42



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

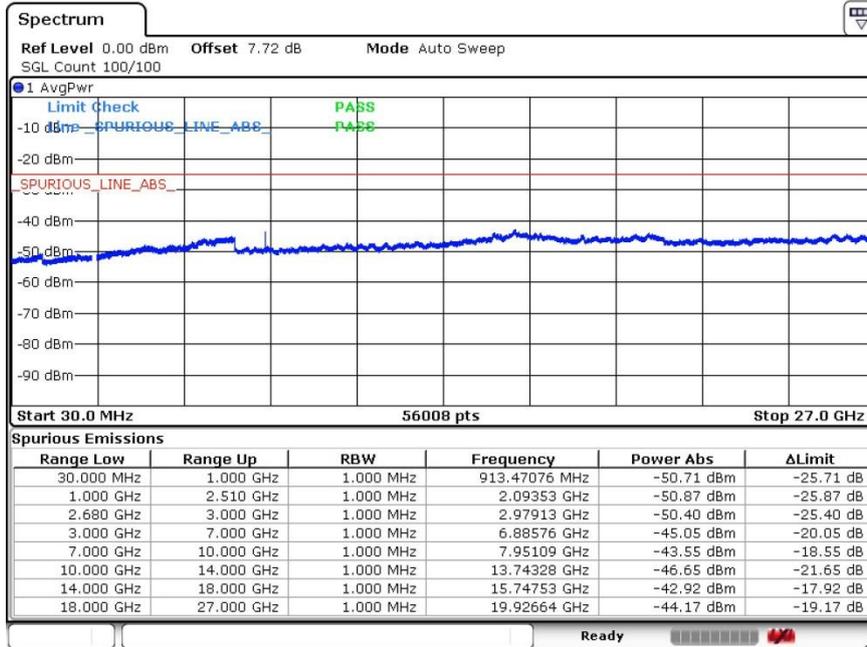
Middle Channel / 64QAM



Date: 16.OCT.2018 22:01:34

Date: 16.OCT.2018 21:57:54

Highest Channel / 64QAM



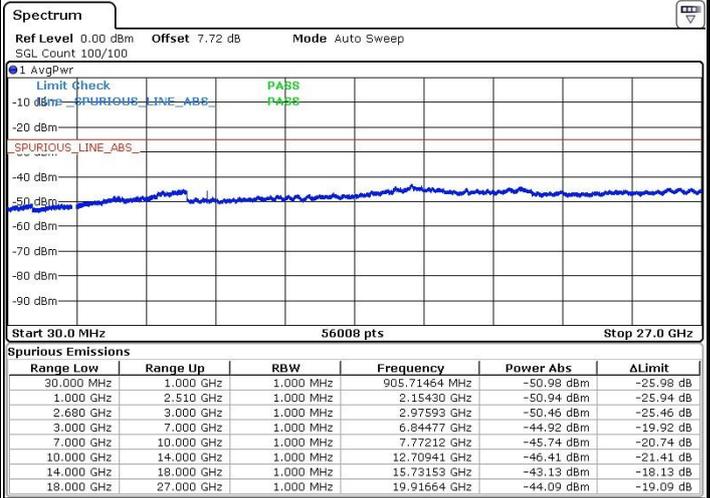
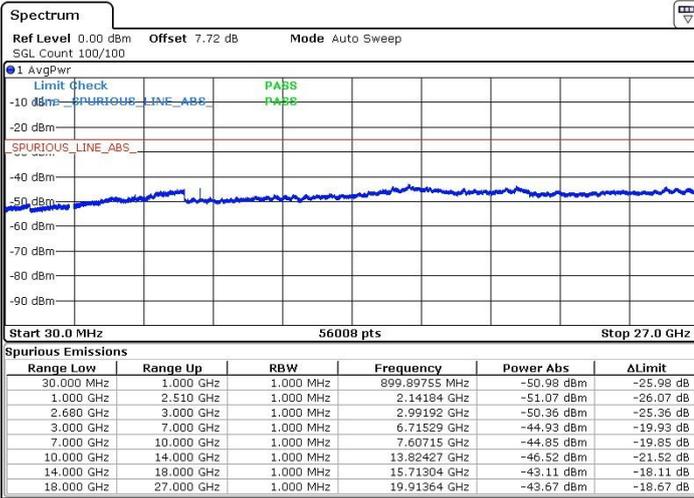
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LTE Band 41 / 10MHz

Lowest Channel / 64QAM

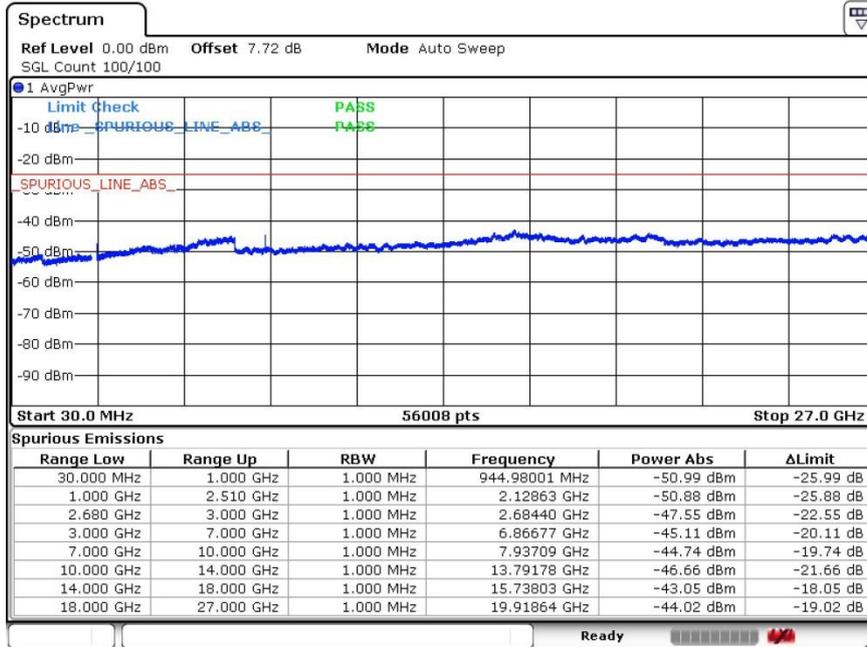
Middle Channel / 64QAM



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Date: 16.OCT.2018 22:07:01

Highest Channel / 64QAM

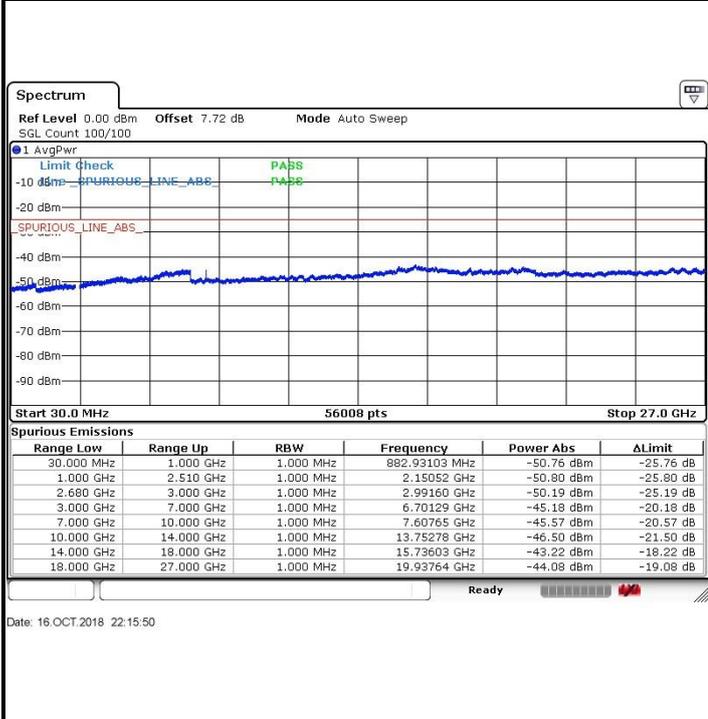


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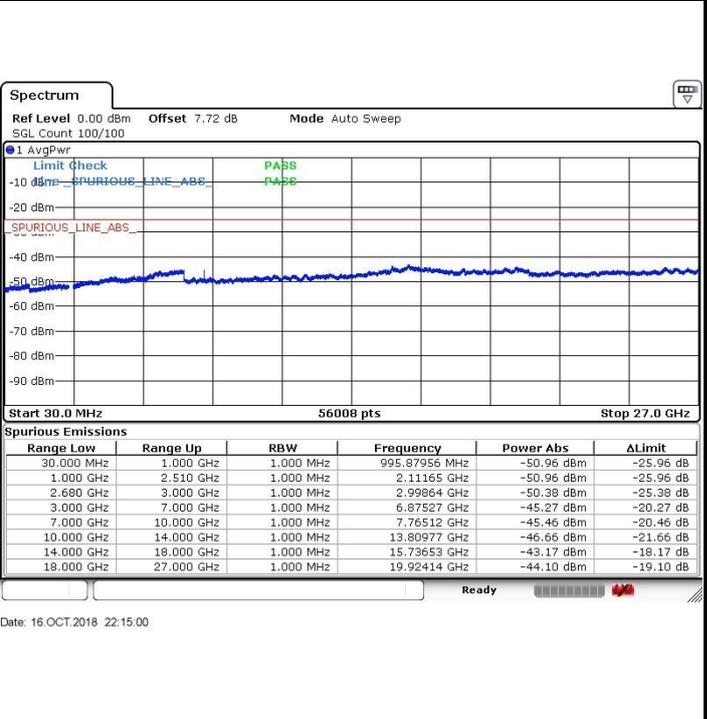


LTE Band 41 / 15MHz

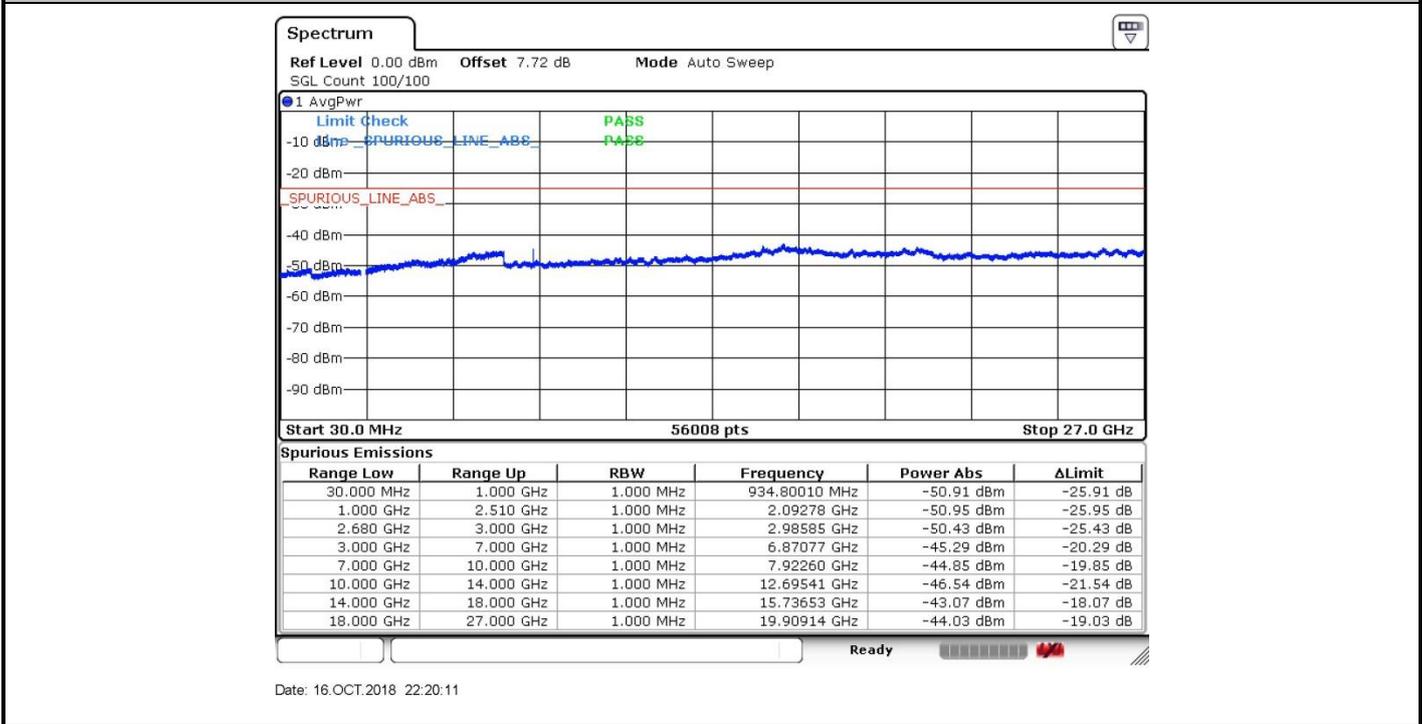
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM

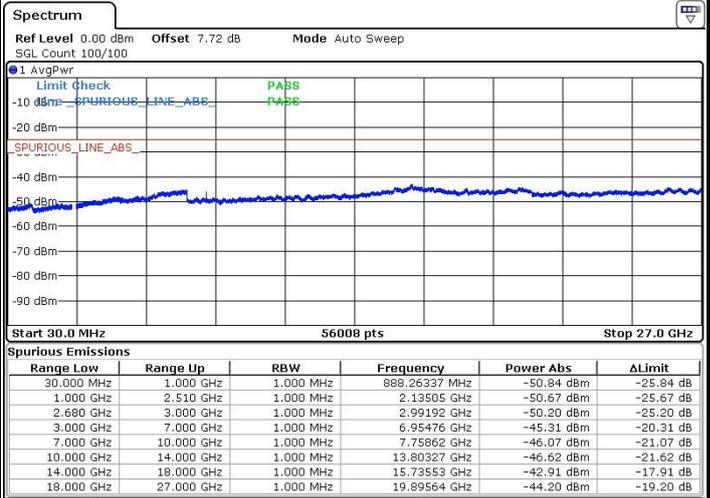
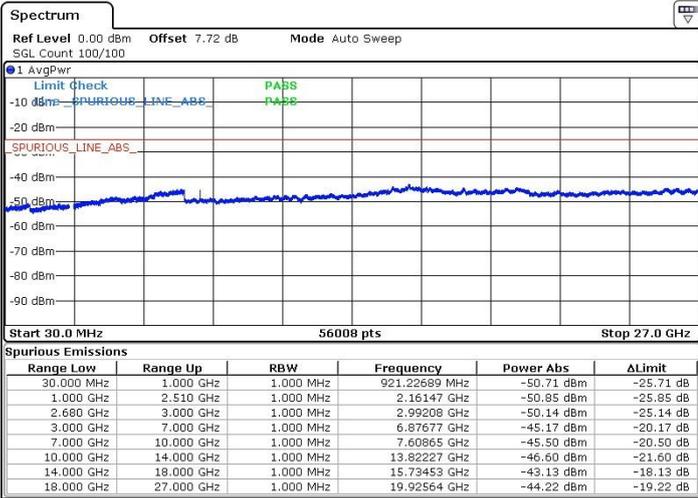




LTE Band 41 / 20MHz

Lowest Channel / 64QAM

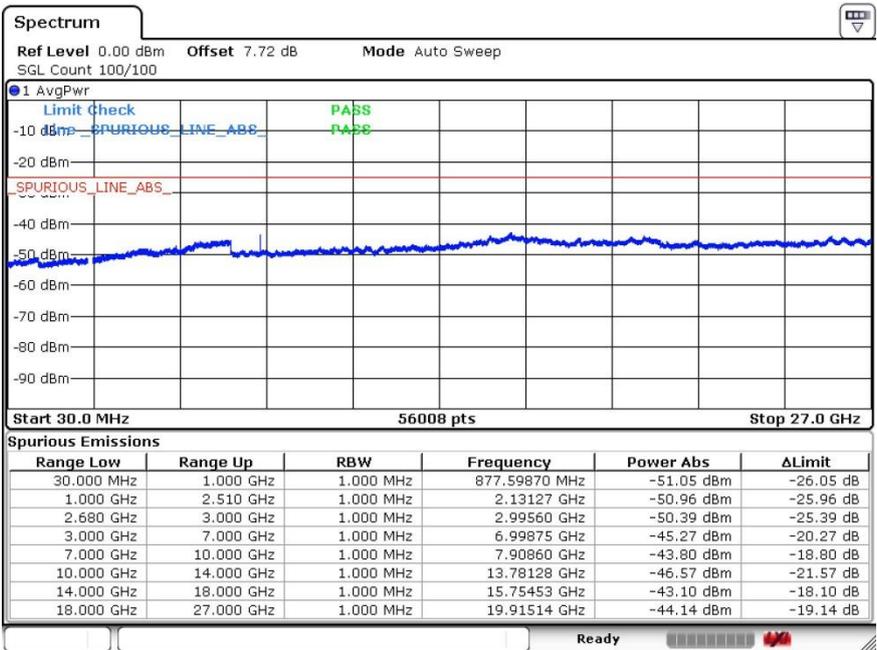
Middle Channel / 64QAM



Date: 16.OCT.2018 22:24:06

Date: 16.OCT.2018 22:23:12

Highest Channel / 64QAM



Date: 16.OCT.2018 22:29:34



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	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.82 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	0.0010	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0023	

Note:

1. Normal Voltage =3.82 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	0.0003	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.82 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 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0058	
0	Normal Voltage	0.0076	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0068	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.82 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 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0084	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0080	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0081	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0085	

Note:

1. Normal Voltage =3.82 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 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V.
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)
Lowest	3702	-62.83	-13	-49.83	-67.70	3.55	8.42	H
	5553	-60.54	-13	-47.54	-66.88	4.34	10.68	H
	7404	-55.33	-13	-42.33	-62.13	5.14	11.94	H
	3702	-62.68	-13	-49.68	-67.55	3.55	8.42	V
	5553	-60.18	-13	-47.18	-66.52	4.34	10.68	V
	7404	-54.95	-13	-41.95	-61.75	5.14	11.94	V
Middle	3741	-61.36	-13	-48.36	-66.23	3.55	8.42	H
	5613	-59.04	-13	-46.04	-65.38	4.34	10.68	H
	7485	-54.84	-13	-41.84	-61.64	5.14	11.94	H
	3741	-61.94	-13	-48.94	-66.81	3.55	8.42	V
	5613	-58.49	-13	-45.49	-64.83	4.34	10.68	V
	7485	-54.38	-13	-41.38	-61.18	5.14	11.94	V
Highest	3783	-62.96	-13	-49.96	-67.83	3.55	8.42	H
	5673	-60.13	-13	-47.13	-66.47	4.34	10.68	H
	7563	-54.59	-13	-41.59	-61.39	5.14	11.94	H
	3783	-63.09	-13	-50.09	-67.96	3.55	8.42	V
	5673	-59.87	-13	-46.87	-66.21	4.34	10.68	V
	7563	-54.70	-13	-41.70	-61.50	5.14	11.94	V

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



LTE Band 4 / 5MHz / 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	-64.34	-13	-51.34	-69.06	3.41	8.13	H
	5130	-57.88	-13	-44.88	-63.89	4.195	10.20	H
	6840	-56.85	-13	-43.85	-63.30	4.91	11.36	H
	3420	-63.96	-13	-50.96	-68.68	3.413	8.13	V
	5130	-54.98	-13	-41.98	-60.99	4.195	10.20	V
	6840	-57.12	-13	-44.12	-63.57	4.911	11.36	V
Middle	3462	-64.61	-13	-51.61	-69.33	3.41	8.13	H
	5190	-54.45	-13	-41.45	-60.46	4.195	10.20	H
	6921	-56.68	-13	-43.68	-63.13	4.91	11.36	H
	3462	-64.01	-13	-51.01	-68.73	3.413	8.13	V
	5190	-50.09	-13	-37.09	-56.10	4.195	10.20	V
	6921	-56.81	-13	-43.81	-63.26	4.911	11.36	V
Highest	3501	-63.45	-13	-50.45	-68.17	3.41	8.13	H
	5250	-59.30	-13	-46.30	-65.31	4.195	10.20	H
	7002	-56.47	-13	-43.47	-62.92	4.91	11.36	H
	3501	-62.28	-13	-49.28	-67.00	3.413	8.13	V
	5250	-58.39	-13	-45.39	-64.40	4.195	10.20	V
	7002	-56.62	-13	-43.62	-63.07	4.911	11.36	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)
Lowest	5004	-66.16	-25	-41.16	-72.17	4.20	10.21	H
	7504	-61.62	-25	-36.62	-68.48	5.12	11.98	H
	10004	-57.76	-25	-32.76	-64.80	5.86	12.90	H
	5004	-65.93	-25	-40.93	-71.94	4.20	10.21	V
	7504	-61.48	-25	-36.48	-68.34	5.12	11.98	V
	10004	-59.48	-25	-34.48	-66.52	5.86	12.90	V
Middle	5052	-65.64	-25	-40.64	-71.65	4.20	10.21	H
	7580	-61.16	-25	-36.16	-68.02	5.12	11.98	H
	10104	-57.69	-25	-32.69	-64.73	5.86	12.90	H
	5052	-65.86	-25	-40.86	-71.87	4.20	10.21	V
	7580	-59.85	-25	-34.85	-66.71	5.12	11.98	V
	10104	-59.32	-25	-34.32	-66.36	5.86	12.90	V
Highest	5104	-65.48	-25	-40.48	-71.49	4.20	10.21	H
	7652	-61.38	-25	-36.38	-68.24	5.12	11.98	H
	10204	-58.15	-25	-33.15	-65.19	5.86	12.90	H
	5104	-65.07	-25	-40.07	-71.08	4.20	10.21	V
	7652	-60.95	-25	-35.95	-67.81	5.12	11.98	V
	10204	-59.37	-25	-34.37	-66.41	5.86	12.90	V

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



LTE Band 12 / 5MHz / 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	1398	-64.55	-13	-51.55	-65.76	2.319	5.68	H
	2098	-65.64	-13	-52.64	-66.27	3.02	5.80	H
	2798	-56.27	-13	-43.27	-58.73	3.27	7.88	H
	3498	-57.92	-13	-44.92	-61.30	3.73	9.25	H
	1398	-64.12	-13	-51.12	-65.33	2.32	5.68	V
	2098	-65.51	-13	-52.51	-66.14	3.02	5.80	V
	2798	-53.24	-13	-40.24	-55.70	3.27	7.88	V
	3498	-55.33	-13	-42.33	-58.71	3.73	9.25	V
Middle	1410	-62.62	-13	-49.62	-63.83	2.319	5.68	H
	2116.02	-66.09	-13	-53.09	-66.72	3.02	5.80	H
	2822	-53.55	-13	-40.55	-56.01	3.27	7.88	H
	3528	-58.28	-13	-45.28	-61.66	3.73	9.25	H
	1410	-62.78	-13	-49.78	-63.99	2.32	5.68	V
	2116.02	-66.10	-13	-53.10	-66.73	3.02	5.80	V
	2822	-49.94	-13	-36.94	-52.40	3.27	7.88	V
	3528	-55.53	-13	-42.53	-58.91	3.73	9.25	V
Highest	1422	-55.88	-13	-42.88	-57.09	2.319	5.68	H
	2134	-66.95	-13	-53.95	-67.58	3.02	5.80	H
	2846	-57.51	-13	-44.51	-59.97	3.27	7.88	H
	3558	-59.53	-13	-46.53	-62.91	3.73	9.25	H
	1422	-58.09	-13	-45.09	-59.30	2.32	5.68	V
	2134	-67.06	-13	-54.06	-67.69	3.02	5.80	V
	2846	-54.10	-13	-41.10	-56.56	3.27	7.88	V
	3558	-57.76	-13	-44.76	-61.14	3.73	9.25	V

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



LTE Band 26 / 10MHz / 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	1650	-68.36	-13	-55.36	-69.57	2.319	5.68	H
	2474	-65.06	-13	-52.06	-65.69	3.02	5.80	H
	3297	-63.97	-13	-50.97	-66.43	3.27	7.88	H
	1650	-68.52	-13	-55.52	-69.73	2.32	5.68	V
	2474	-64.85	-13	-51.85	-65.48	3.02	5.80	V
	3297	-64.15	-13	-51.15	-66.61	3.27	7.88	V
Middle	1664	-67.91	-13	-54.91	-69.12	2.319	5.68	H
	2496	-64.59	-13	-51.59	-65.22	3.02	5.80	H
	3327	-64.07	-13	-51.07	-66.53	3.27	7.88	H
	1664	-68.40	-13	-55.40	-69.61	2.32	5.68	V
	2496	-65.95	-13	-52.95	-66.58	3.02	5.80	V
	3327	-64.35	-13	-51.35	-66.81	3.27	7.88	V
Highest	1680	-68.51	-13	-55.51	-69.72	2.319	5.68	H
	2518	-65.97	-13	-52.97	-66.60	3.02	5.80	H
	3357	-63.90	-13	-50.90	-66.36	3.27	7.88	H
	1680	-68.71	-13	-55.71	-69.92	2.32	5.68	V
	2518	-66.21	-13	-53.21	-66.84	3.02	5.80	V
	3357	-64.28	-13	-51.28	-66.74	3.27	7.88	V

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



LTE Band 41 / 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	5072	-65.78	-25	-40.78	-71.79	4.20	10.21	H
	7608.27	-60.42	-25	-35.42	-67.28	5.12	11.98	H
	10143	-58.19	-25	-33.19	-65.23	5.86	12.90	H
	5072	-65.77	-25	-40.77	-71.78	4.20	10.21	V
	7608.27	-59.98	-25	-34.98	-66.84	5.12	11.98	V
	10144	-58.93	-25	-33.93	-65.97	5.86	12.90	V
Middle	5171	-66.83	-25	-41.83	-72.84	4.20	10.21	H
	7758.27	-59.43	-25	-34.43	-66.29	5.12	11.98	H
	10344	-58.33	-25	-33.33	-65.37	5.86	12.90	H
	5171	-67.04	-25	-42.04	-73.05	4.20	10.21	V
	7758.26	-57.71	-25	-32.71	-64.57	5.12	11.98	V
	10344	-59.09	-25	-34.09	-66.13	5.86	12.90	V
Highest	5272.18	-67.01	-25	-42.01	-73.02	4.20	10.21	H
	7907	-54.28	-25	-29.28	-61.14	5.12	11.98	H
	10544	-57.63	-25	-32.63	-64.67	5.86	12.90	H
	5273	-66.67	-25	-41.67	-72.68	4.20	10.21	V
	7908.27	-55.78	-25	-30.78	-62.64	5.12	11.98	V
	10544	-57.05	-25	-32.05	-64.09	5.86	12.90	V

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