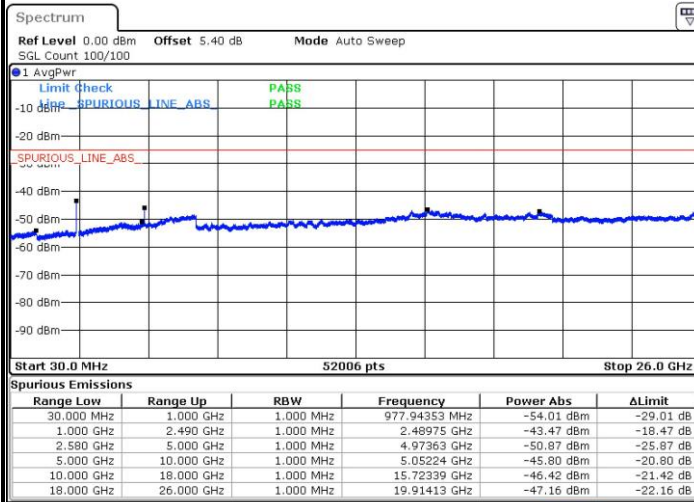




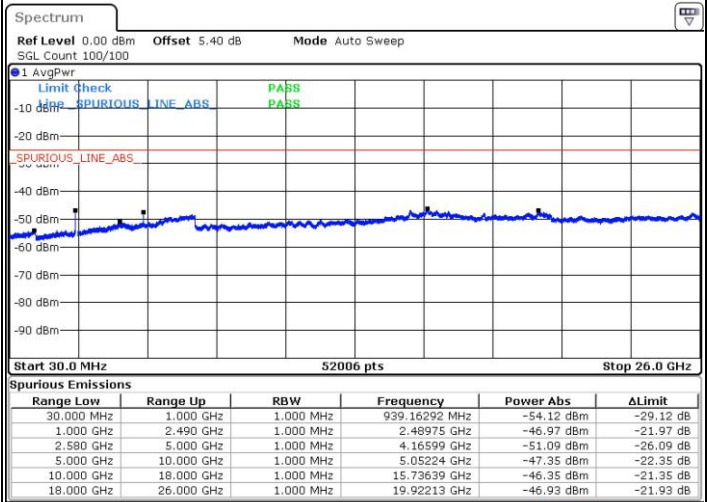
LTE Band 7 / 20MHz

Middle Channel / QPSK



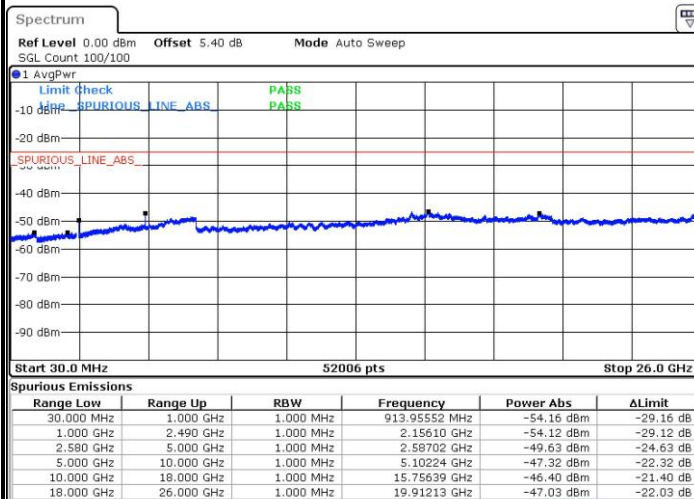
Date: 10 JAN 2017 18:45:27

Middle Channel / 16QAM



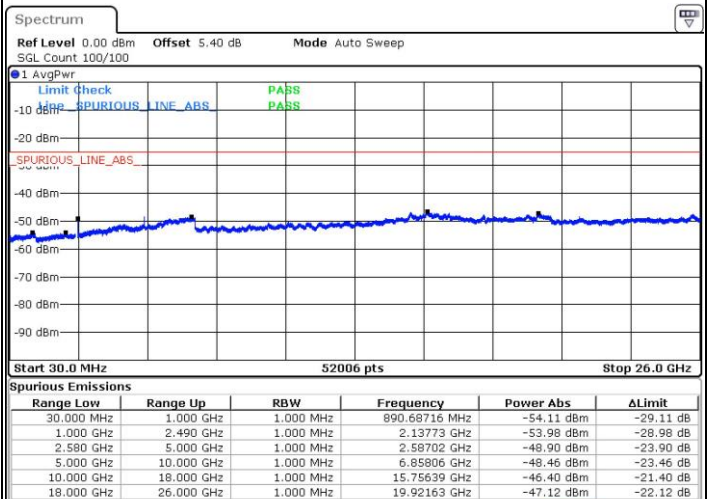
Date: 10 JAN 2017 18:44:33

Highest Channel / QPSK



Date: 10 JAN 2017 18:46:21

Highest Channel / 16QAM

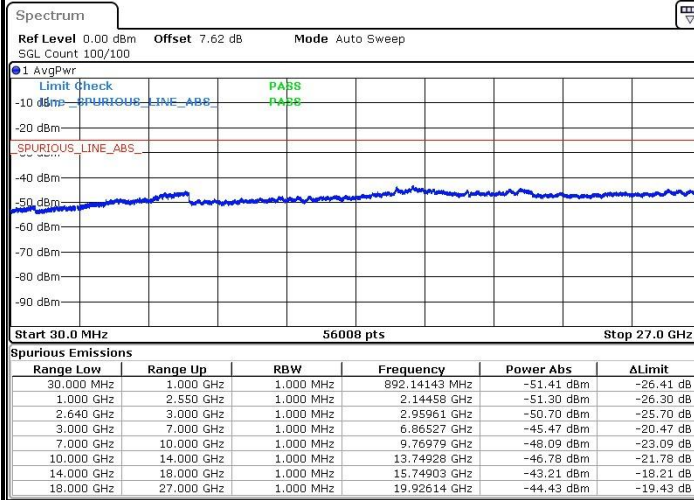


Date: 10 JAN 2017 18:47:16



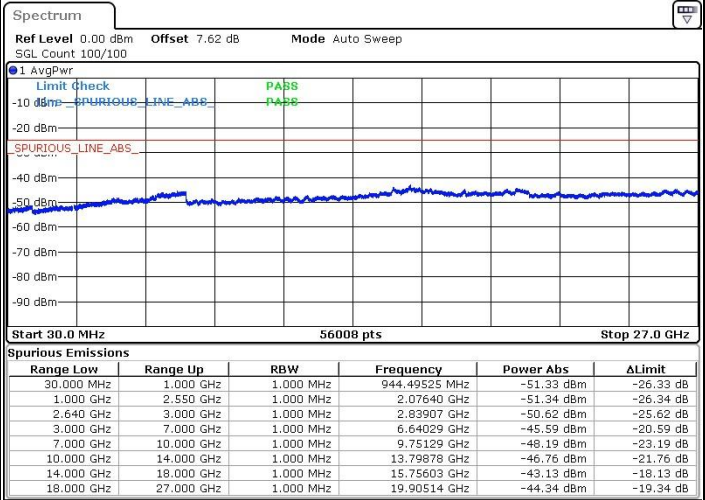
LTE Band 38 / 5MHz

Lowest Channel / QPSK



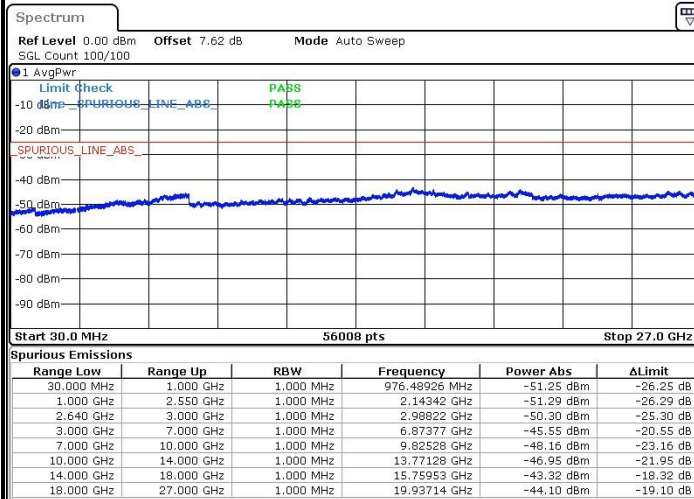
Date: 4 FEB 2017 09:29:40

Lowest Channel / 16QAM



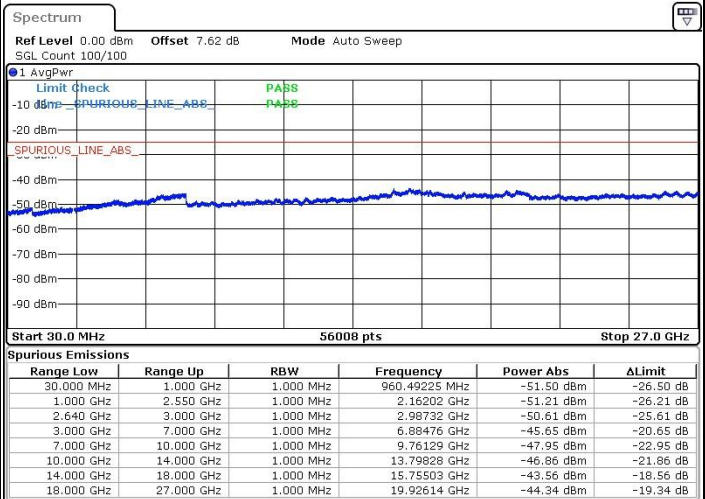
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Middle Channel / QPSK



Date: 4 FEB 2017 09:32:09

Middle Channel / 16QAM

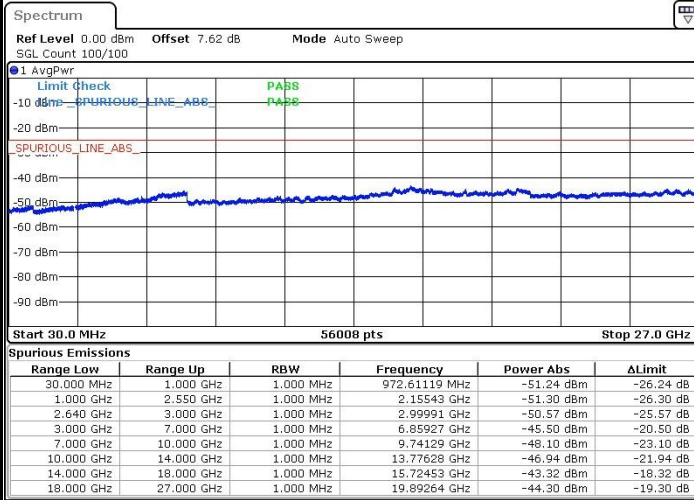


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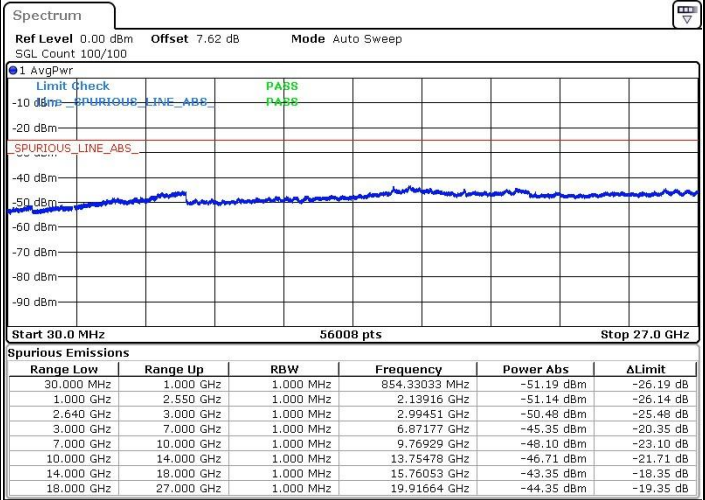
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 4 FEB 2017 09:33:02

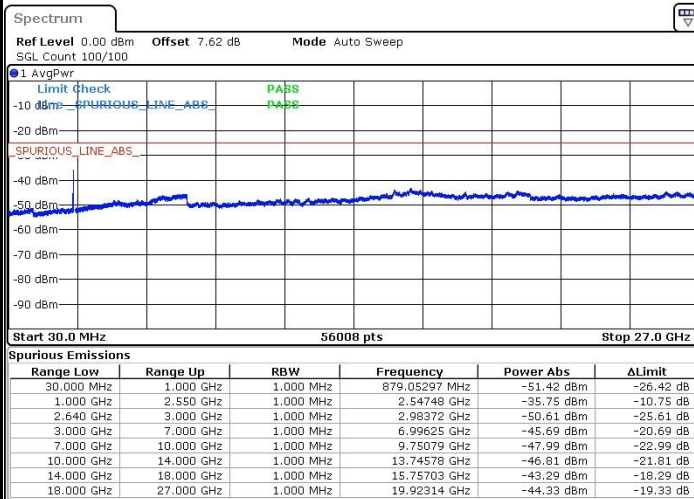
Highest Channel / 16QAM



Date: 4 FEB 2017 09:33:57

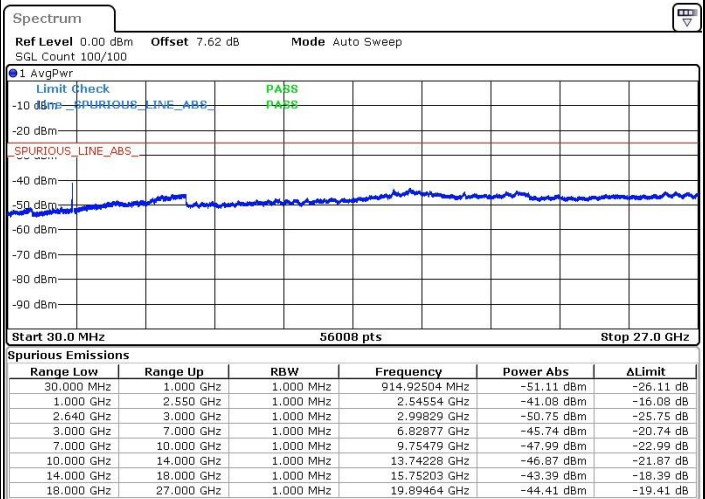
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 4 FEB 2017 09:25:08

Lowest Channel / 16QAM

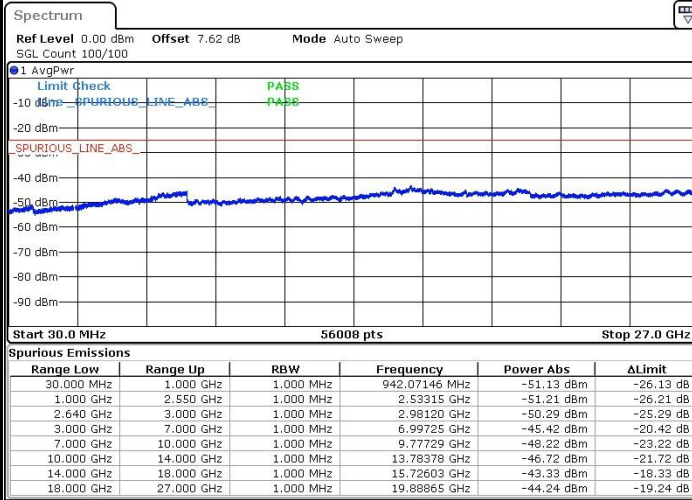


Date: 4 FEB 2017 09:24:17



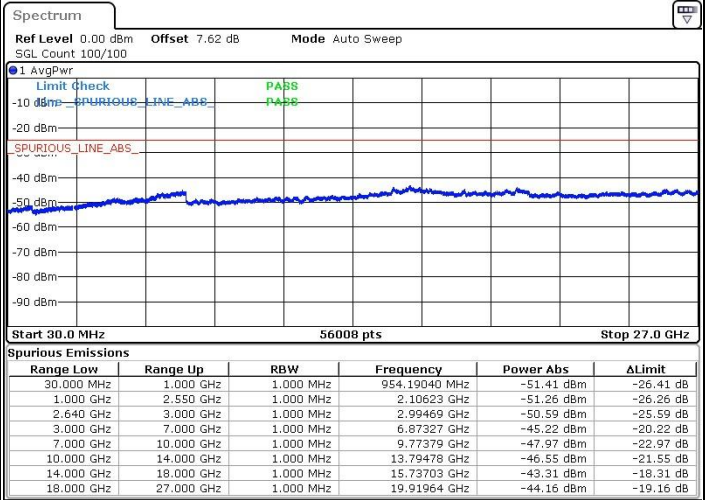
LTE Band 38 / 10MHz

Middle Channel / QPSK



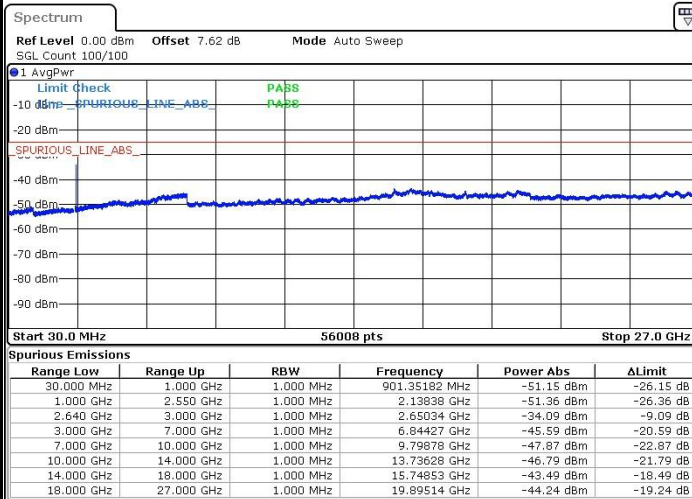
Date: 4 FEB 2017 09:25:58

Middle Channel / 16QAM



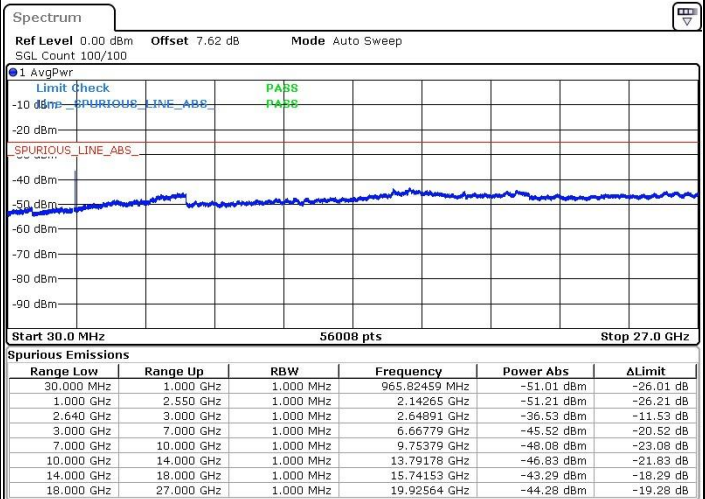
Date: 4 FEB 2017 09:26:45

Highest Channel / QPSK



Date: 4 FEB 2017 09:28:46

Highest Channel / 16QAM

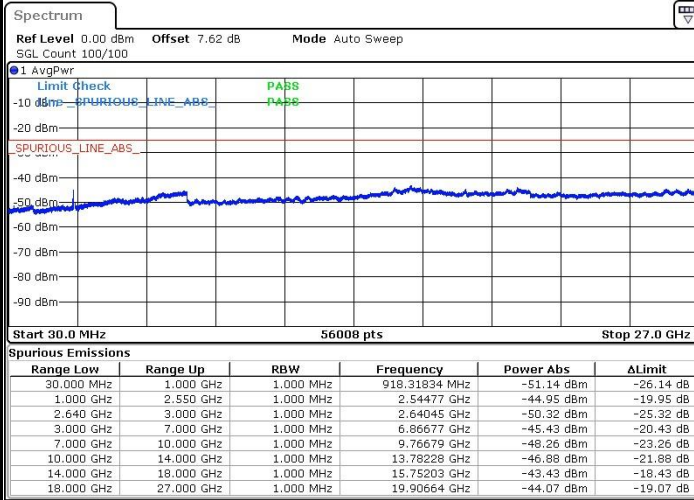


Date: 4 FEB 2017 09:27:50



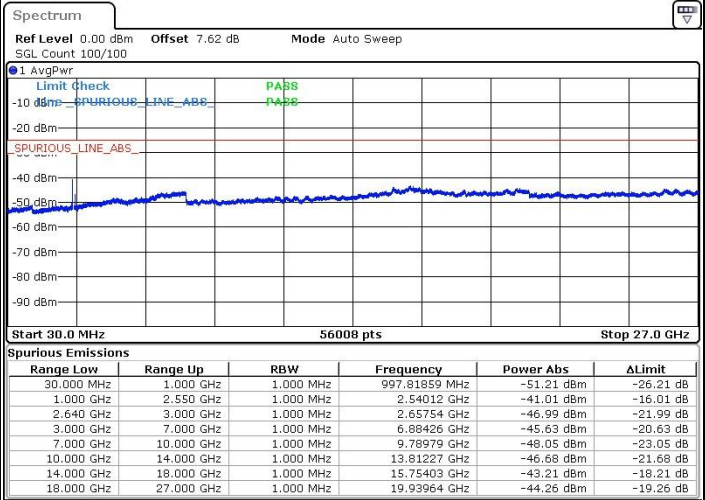
LTE Band 38 / 15MHz

Lowest Channel / QPSK



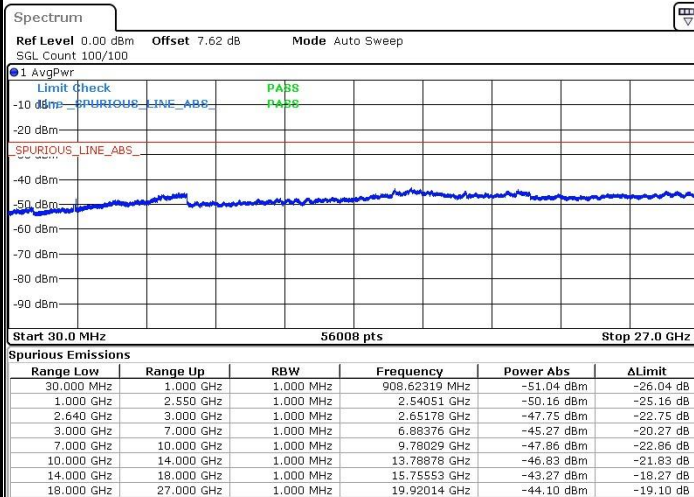
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Lowest Channel / 16QAM



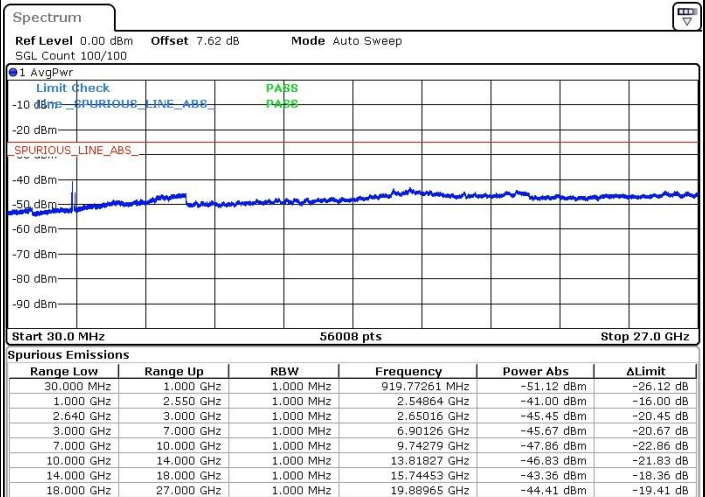
Date: 4 FEB 2017 09:19:58

Middle Channel / QPSK



Date: 4 FEB 2017 09:21:35

Middle Channel / 16QAM

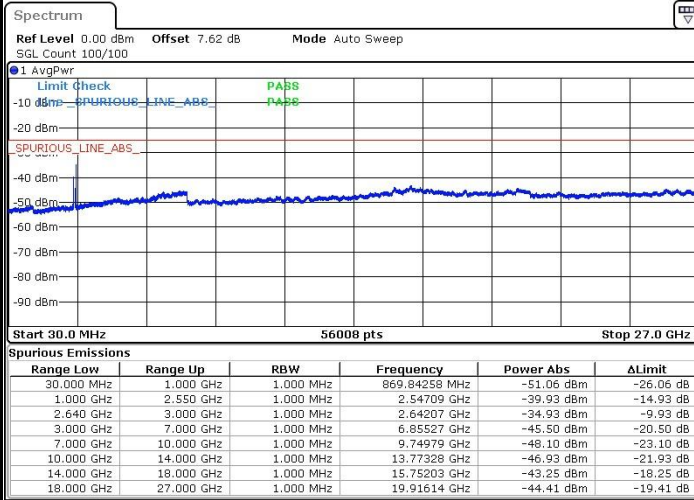


Date: 4 FEB 2017 09:20:46



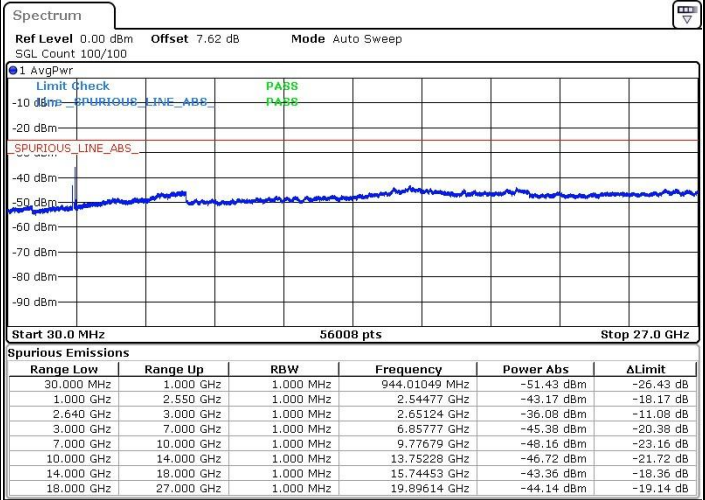
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 4 FEB 2017 09:22:34

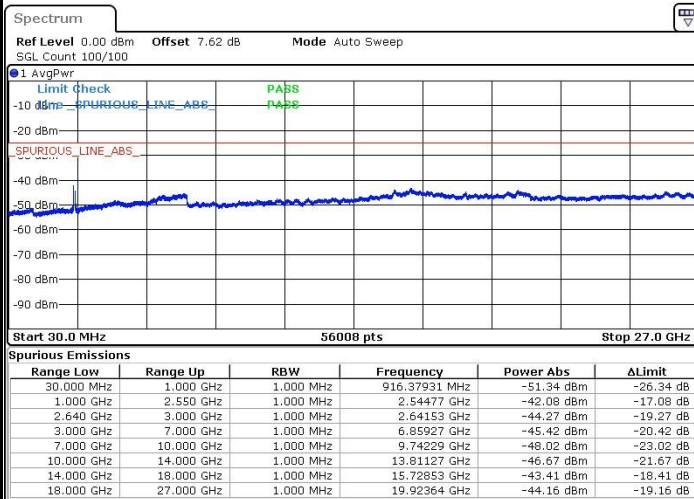
Highest Channel / 16QAM



Date: 4 FEB 2017 09:23:26

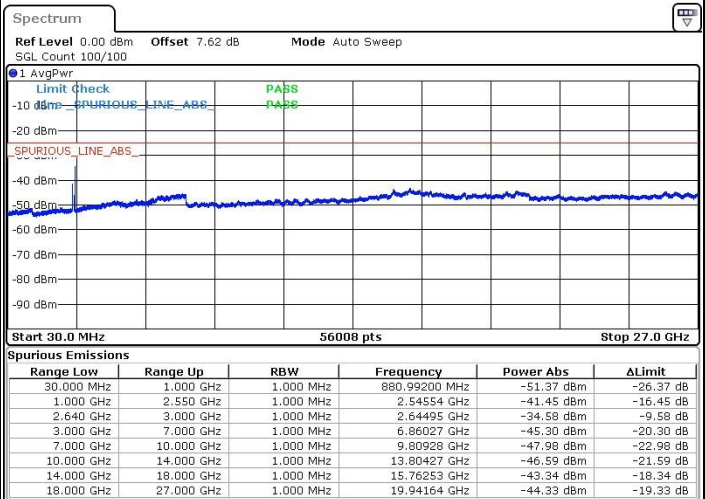
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 4 FEB 2017 09:18:12

Lowest Channel / 16QAM

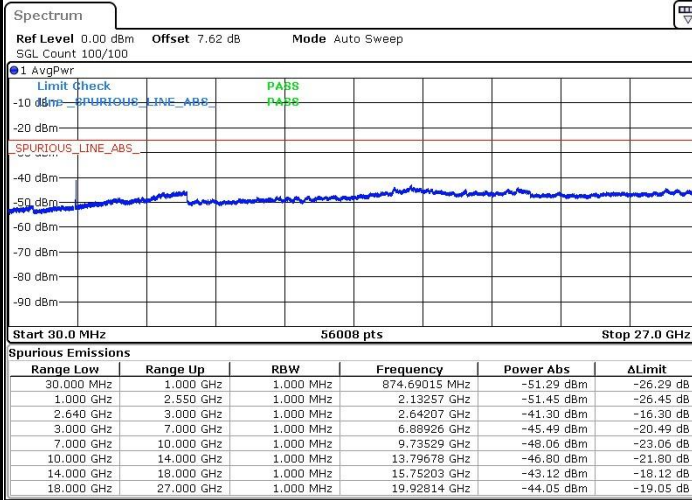


Date: 4 FEB 2017 09:17:17



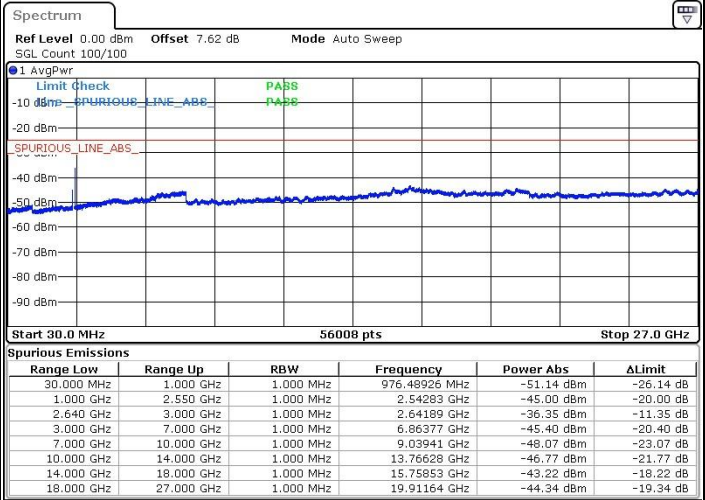
LTE Band 38 / 20MHz

Middle Channel / QPSK



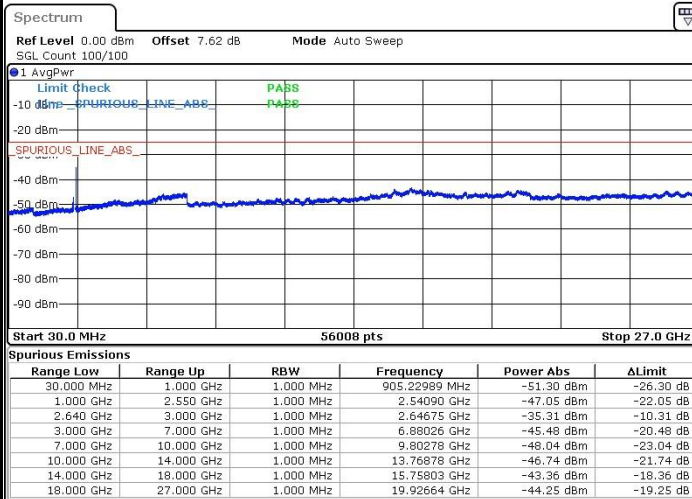
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Middle Channel / 16QAM



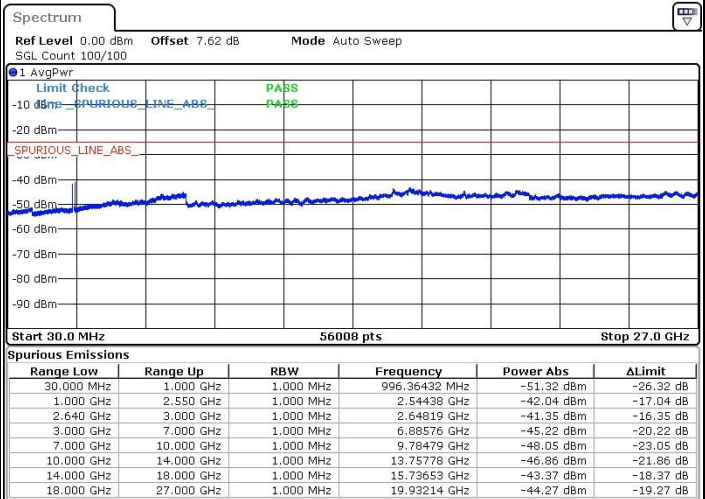
Date: 4 FEB 2017 09:16:19

Highest Channel / QPSK



Date: 4 FEB 2017 09:14:29

Highest Channel / 16QAM



Date: 4 FEB 2017 09:13:36

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. 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	0.0018	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0024	

Note: Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. 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	0.0007	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.35 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 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	3465	-64.59	-13	-51.59	-73.49	-68.56	4.87	8.84	H
	5196	-64.01	-13	-51.01	-74.94	-65.45	7.70	9.14	H
	6927	-53.62	-13	-40.62	-72.09	-55.30	8.98	10.66	H
	3465	-61.18	-13	-48.18	-72.8	-65.15	4.87	8.84	V
	5196	-61.41	-13	-48.41	-75.46	-62.85	7.70	9.14	V
	6927	-54.84	-13	-41.84	-72.86	-56.52	8.98	10.66	V

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

LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
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	3462	-62.39	-13	-49.39	-71.29	-66.36	4.87	8.84	H
	5193	-64.22	-13	-51.22	-75.15	-65.66	7.70	9.14	H
	6924	-53.33	-13	-40.33	-71.80	-55.01	8.98	10.66	H
	3462	-60.30	-13	-47.30	-71.92	-64.27	4.87	8.84	V
	5193	-61.14	-13	-48.14	-75.19	-62.58	7.70	9.14	V
	6924	-54.69	-13	-41.69	-72.71	-56.37	8.98	10.66	V

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



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
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	3459	-63.63	-13	-50.63	-72.53	-67.60	4.87	8.84	H
	5190	-64.25	-13	-51.25	-75.18	-65.69	7.70	9.14	H
	6921	-53.99	-13	-40.99	-72.46	-55.67	8.98	10.66	H
	3459	-60.90	-13	-47.90	-72.52	-64.87	4.87	8.84	V
	5190	-62.09	-13	-49.09	-76.14	-63.53	7.70	9.14	V
	6921	-55.16	-13	-42.16	-73.18	-56.84	8.98	10.66	V

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

LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
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	3456	-58.81	-13	-45.81	-67.71	-62.78	4.87	8.84	H
	5184	-63.12	-13	-50.12	-74.05	-64.56	7.70	9.14	H
	6912	-48.88	-13	-35.88	-67.35	-50.56	8.98	10.66	H
	3456	-59.73	-13	-46.73	-71.35	-63.70	4.87	8.84	V
	5184	-53.74	-13	-40.74	-67.79	-55.18	7.70	9.14	V
	6912	-54.37	-13	-41.37	-72.39	-56.05	8.98	10.66	V

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



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
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	3450	-61.67	-13	-48.67	-70.57	-65.64	4.87	8.84	H
	5178	-61.86	-13	-48.86	-72.79	-63.30	7.70	9.14	H
	6903	-48.32	-13	-35.32	-66.79	-50.00	8.98	10.66	H
	3450	-61.24	-13	-48.24	-72.86	-65.21	4.87	8.84	V
	5178	-60.89	-13	-47.89	-74.94	-62.33	7.70	9.14	V
	6903	-53.13	-13	-40.13	-71.15	-54.81	8.98	10.66	V

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

LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
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	3447	-59.24	-13	-46.24	-68.14	-63.21	4.87	8.84	H
	5172	-63.54	-13	-50.54	-74.47	-64.98	7.70	9.14	H
	6894	-46.89	-13	-33.89	-65.36	-48.57	8.98	10.66	H
	3447	-59.87	-13	-46.87	-71.49	-63.84	4.87	8.84	V
	5172	-61.34	-13	-48.34	-75.39	-62.78	7.70	9.14	V
	6894	-53.87	-13	-40.87	-71.89	-55.55	8.98	10.66	V

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



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	1672	-61.74	-13	-48.74	-64.34	-64.06	1.33	5.80	H
	2508	-43.54	-13	-30.54	-55.35	-46.71	1.58	6.90	H
	3342	-67.02	-13	-54.02	-76.23	-70.52	1.85	7.50	H
	1672	-67.01	-13	-54.01	-68.88	-69.33	1.33	5.80	V
	2508	-50.98	-13	-37.98	-60.10	-54.15	1.58	6.90	V
	3342	-68.08	-13	-55.08	-77.10	-71.58	1.85	7.50	V

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

LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
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	1670	-62.85	-13	-49.85	-65.45	-65.17	1.33	5.80	H
	2506	-46.30	-13	-33.30	-57.57	-49.47	1.58	6.90	H
	3342	-68.04	-13	-55.04	-77.25	-71.54	1.85	7.50	H
	1670	-67.94	-13	-54.94	-69.81	-70.26	1.33	5.80	V
	2506	-53.56	-13	-40.56	-61.61	-56.73	1.58	6.90	V
	3342	-67.67	-13	-54.67	-76.69	-71.17	1.85	7.50	V

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



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1668	-60.88	-13	-47.88	-63.48	-63.20	1.33	5.80	H
	2502	-43.17	-13	-30.17	-55.01	-46.34	1.58	6.90	H
	3336	-67.08	-13	-54.08	-76.29	-70.58	1.85	7.50	H
	1668	-66.86	-13	-53.86	-68.73	-69.18	1.33	5.80	V
	2502	-52.00	-13	-39.00	-60.81	-55.17	1.58	6.90	V
	3336	-68.45	-13	-55.45	-77.47	-71.95	1.85	7.50	V

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

LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0									
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	1664	-60.31	-13	-47.31	-62.91	-62.63	1.33	5.80	H
	2496	-42.44	-13	-29.44	-54.43	-45.61	1.58	6.90	H
	3328	-67.96	-13	-54.96	-77.17	-71.46	1.85	7.50	H
	1664	-66.95	-13	-53.95	-68.82	-69.27	1.33	5.80	V
	2496	-49.39	-13	-36.39	-59.06	-52.56	1.58	6.90	V
	3328	-68.56	-13	-55.56	-77.58	-72.06	1.85	7.50	V

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



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0									
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	5064	-63.14	-25	-38.14	-72.36	-69.70	2.41	8.97	H
	7600	-60.24	-25	-35.24	-73.94	-69.24	2.86	11.86	H
	10132	-57.49	-25	-32.49	-75.84	-66.39	3.21	12.11	H
	5064	-62.62	-25	-37.62	-71.33	-69.18	2.41	8.97	V
	7600	-54.56	-25	-29.56	-69.19	-63.56	2.86	11.86	V
	10132	-56.58	-25	-31.58	-75.98	-65.48	3.21	12.11	V

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

LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
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	5061	-64.19	-25	-39.19	-73.41	-70.75	2.41	8.97	H
	7592	-57.74	-25	-32.74	-71.44	-66.74	2.86	11.86	H
	10123	-57.86	-25	-32.86	-76.21	-66.76	3.21	12.11	H
	5061	-62.92	-25	-37.92	-71.63	-69.48	2.41	8.97	V
	7592	-53.35	-25	-28.35	-67.98	-62.35	2.86	11.86	V
	10123	-56.92	-25	-31.92	-76.32	-65.82	3.21	12.11	V

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



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0									
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	5056	-63.44	-25	-38.44	-72.66	-70.00	2.41	8.97	H
	7584	-57.81	-25	-32.81	-71.51	-66.81	2.86	11.86	H
	10113	-57.48	-25	-32.48	-75.83	-66.38	3.21	12.11	H
	5056	-60.56	-25	-35.56	-69.27	-67.12	2.41	8.97	V
	7584	-52.93	-25	-27.93	-67.56	-61.93	2.86	11.86	V
	10113	-56.56	-25	-31.56	-75.96	-65.46	3.21	12.11	V

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

LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
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	-63.07	-25	-38.07	-72.29	-69.63	2.41	8.97	H
	7578	-59.91	-25	-34.91	-73.61	-68.91	2.86	11.86	H
	10104	-57.60	-25	-32.60	-75.95	-66.50	3.21	12.11	H
	5052	-63.14	-25	-38.14	-71.85	-69.70	2.41	8.97	V
	7578	-55.84	-25	-30.84	-70.47	-64.84	2.86	11.86	V
	10104	-57.42	-25	-32.42	-76.82	-66.32	3.21	12.11	V

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



LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0									
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	5184	-63.76	-25	-38.76	-72.98	-70.32	2.41	8.97	H
	7780	-60.50	-25	-35.50	-74.20	-69.50	2.86	11.86	H
	10368	-57.31	-25	-32.31	-75.66	-66.21	3.21	12.11	H
	5184	-63.61	-25	-38.61	-72.32	-70.17	2.41	8.97	V
	7780	-60.17	-25	-35.17	-74.8	-69.17	2.86	11.86	V
	10368	-55.41	-25	-30.41	-74.81	-64.31	3.21	12.11	V

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

LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0									
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	5180	-64.29	-25	-39.29	-73.51	-70.85	2.41	8.97	H
	7772	-59.26	-25	-34.26	-72.96	-68.26	2.86	11.86	H
	10359	-57.74	-25	-32.74	-76.09	-66.64	3.21	12.11	H
	5180	-64.56	-25	-39.56	-73.27	-71.12	2.41	8.97	V
	7772	-57.73	-25	-32.73	-72.36	-66.73	2.86	11.86	V
	10359	-55.95	-25	-30.95	-75.35	-64.85	3.21	12.11	V

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



LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0									
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	5176	-62.90	-25	-37.90	-72.12	-69.46	2.41	8.97	H
	7764	-60.18	-25	-35.18	-73.88	-69.18	2.86	11.86	H
	10350	-57.87	-25	-32.87	-76.22	-66.77	3.21	12.11	H
	5176	-65.07	-25	-40.07	-73.78	-71.63	2.41	8.97	V
	7764	-60.09	-25	-35.09	-74.72	-69.09	2.86	11.86	V
	10350	-56.37	-25	-31.37	-75.77	-65.27	3.21	12.11	V

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

LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0									
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	5172	-64.68	-25	-39.68	-73.90	-71.24	2.41	8.97	H
	7760	-60.76	-25	-35.76	-74.46	-69.76	2.86	11.86	H
	10341	-57.52	-25	-32.52	-75.87	-66.42	3.21	12.11	H
	5172	-65.01	-25	-40.01	-73.72	-71.57	2.41	8.97	V
	7760	-60.14	-25	-35.14	-74.77	-69.14	2.86	11.86	V
	10341	-56.20	-25	-31.20	-75.6	-65.10	3.21	12.11	V

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