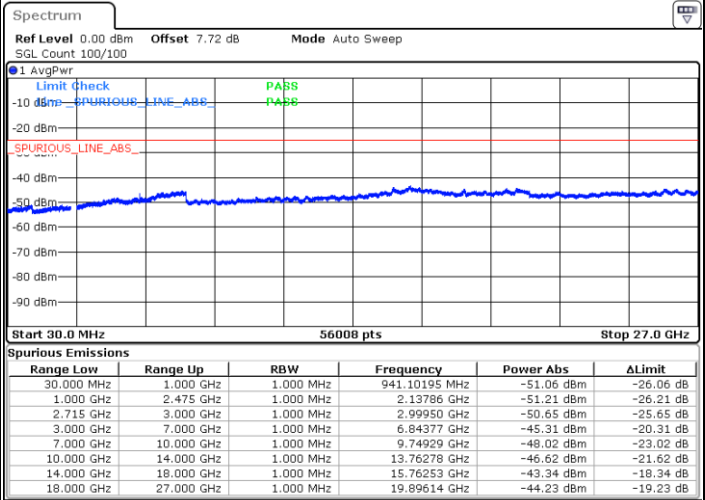
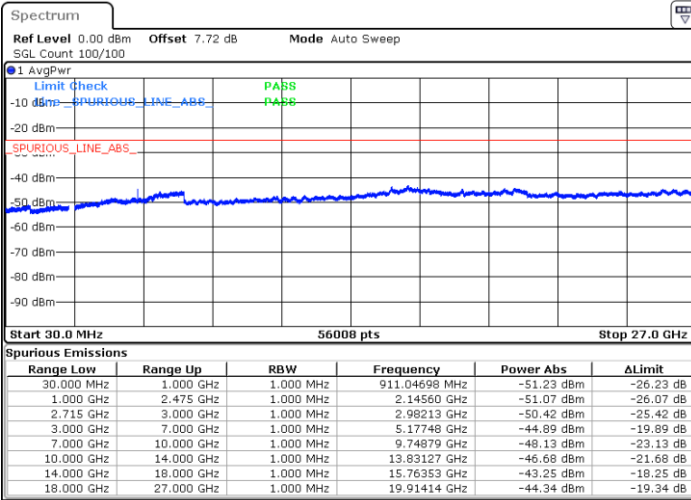




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

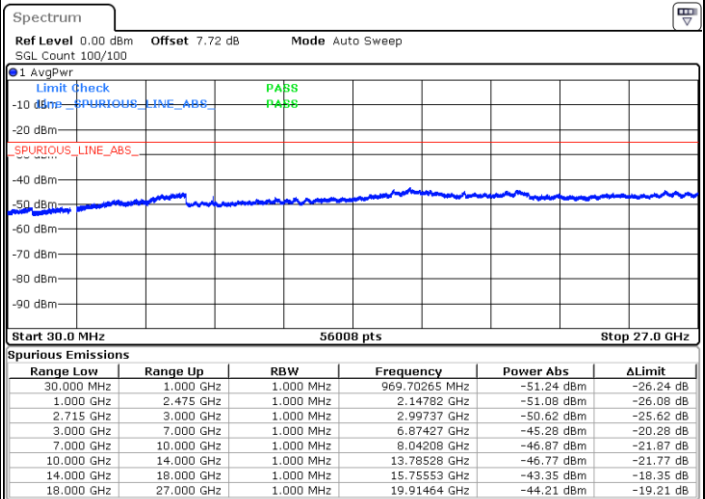
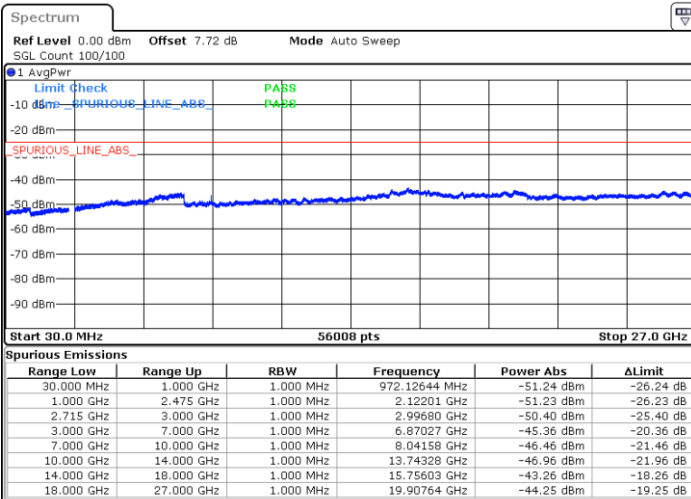


Date: 28 JUN 2017 22:37:18

Date: 28 JUN 2017 22:38:06

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28 JUN 2017 22:39:58

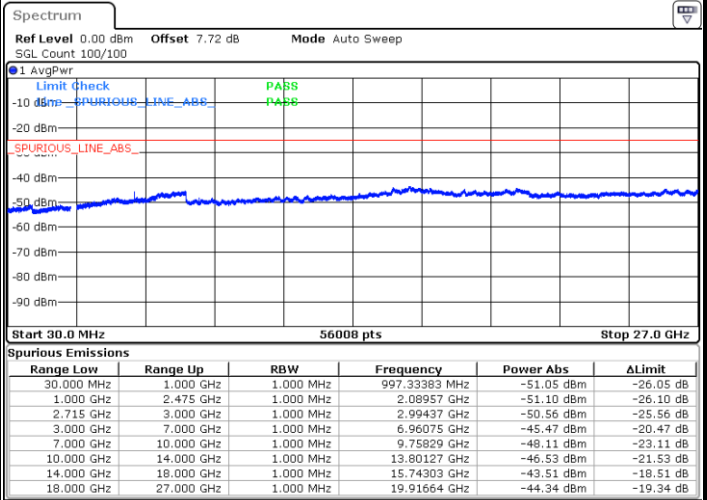
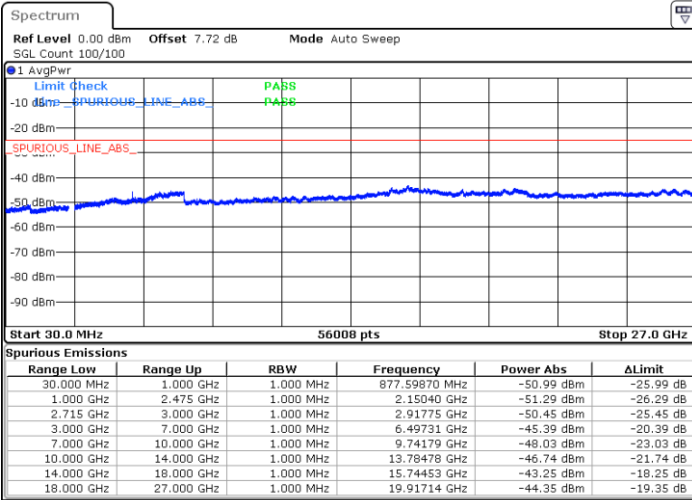
Date: 28 JUN 2017 22:40:47



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

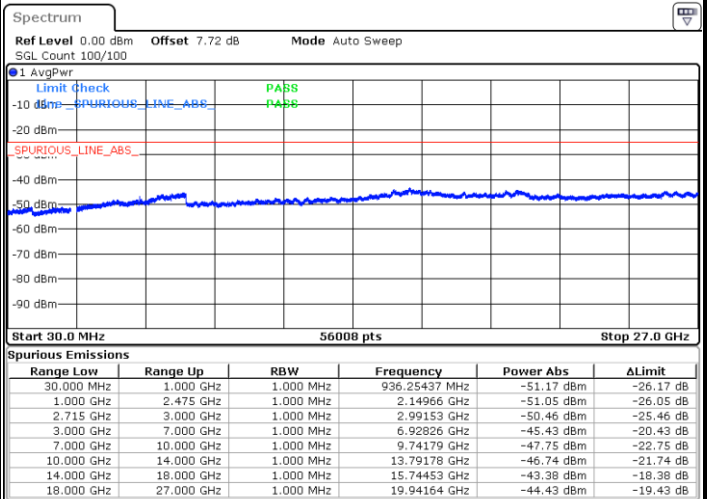
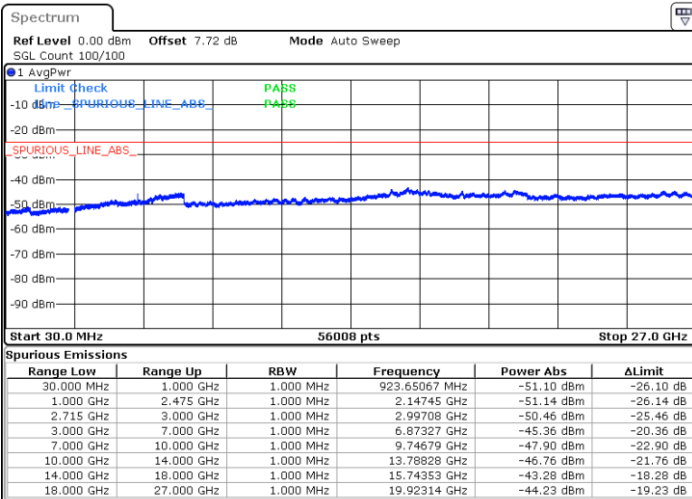


Date: 28 JUN 2017 22:55:39

Date: 28 JUN 2017 22:56:28

Middle Channel / QPSK

Middle Channel / 16QAM



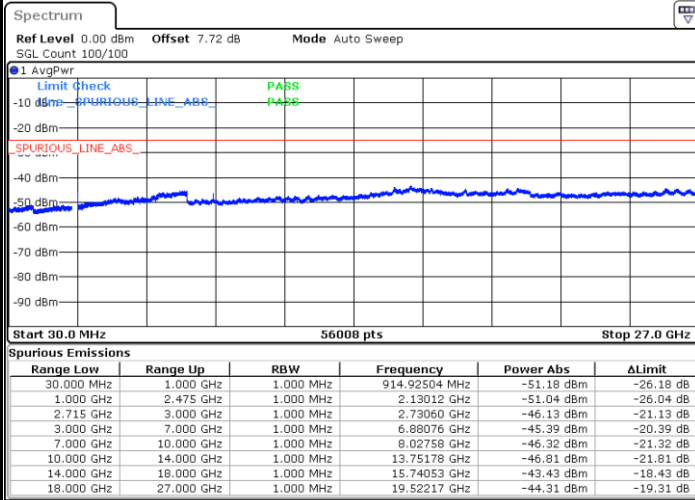
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Date: 28 JUN 2017 22:58:59



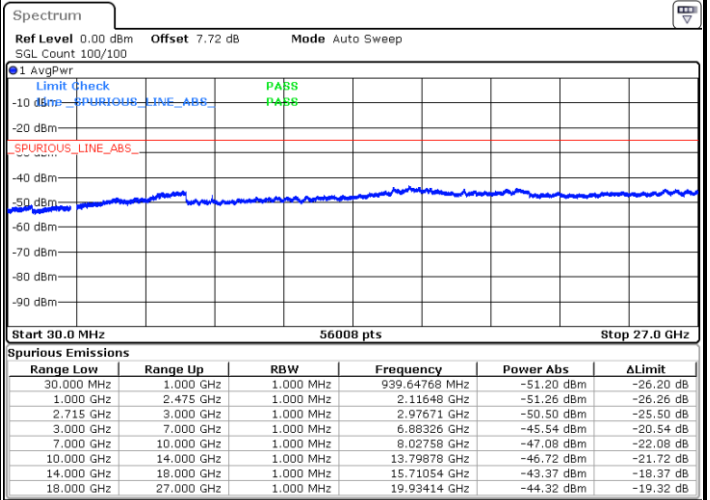
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 28 JUN 2017 23:00:44

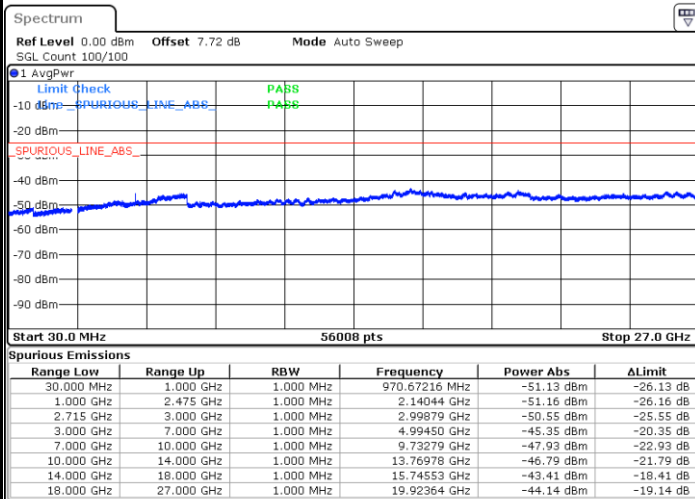
Highest Channel / 16QAM



Date: 28 JUN 2017 23:01:34

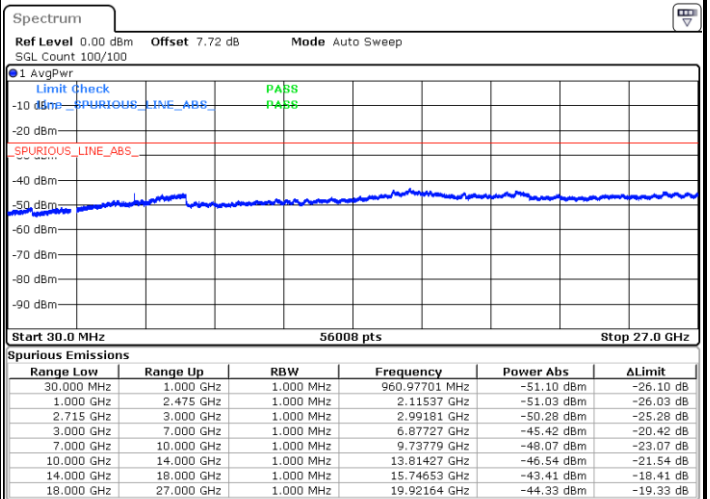
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 28 JUN 2017 23:25:55

Lowest Channel / 16QAM

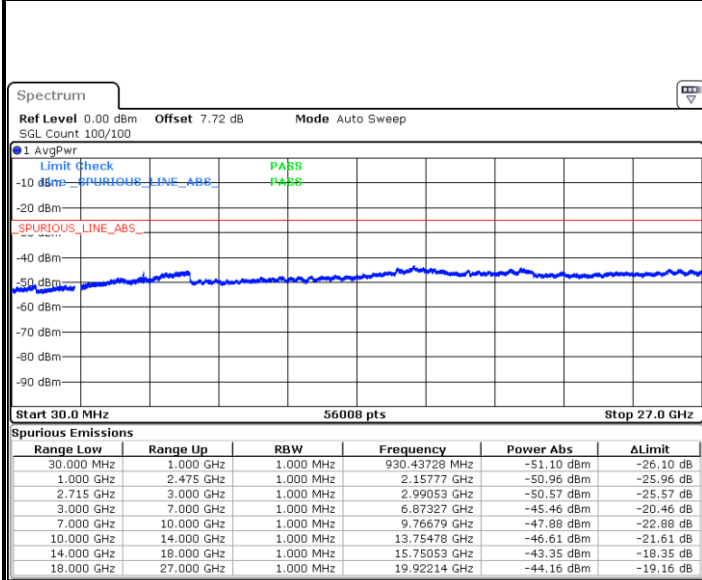


Date: 28 JUN 2017 23:26:46



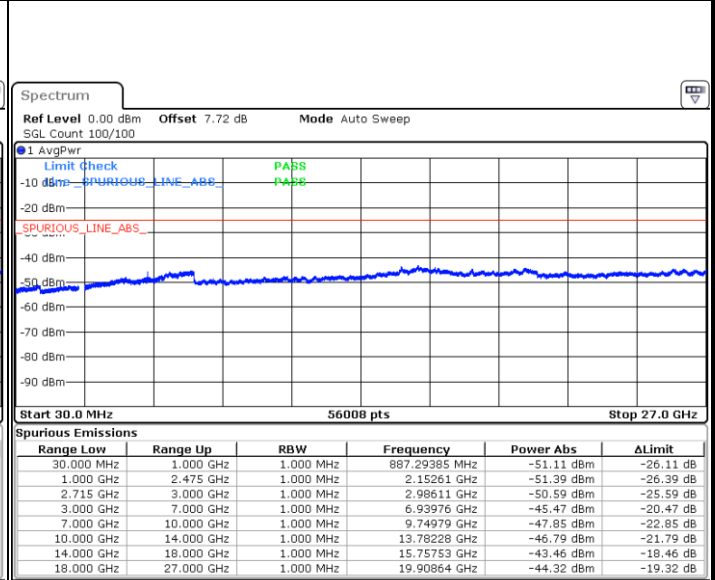
LTE Band 41 / 20MHz

Middle Channel / QPSK



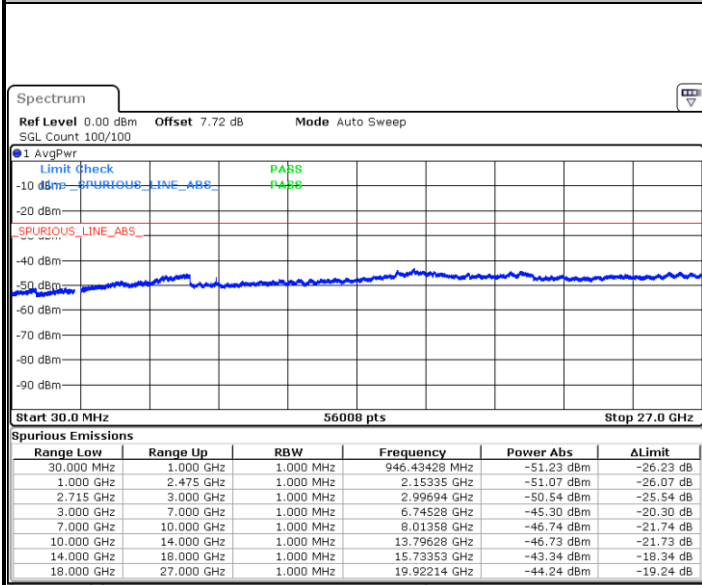
Date: 28 JUN 2017 23:28:41

Middle Channel / 16QAM



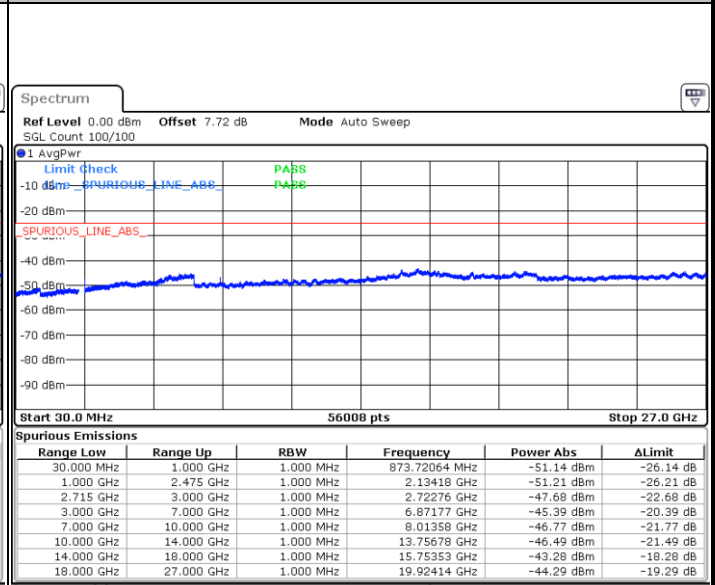
Date: 28 JUN 2017 23:29:31

Highest Channel / QPSK



Date: 28 JUN 2017 23:31:23

Highest Channel / 16QAM



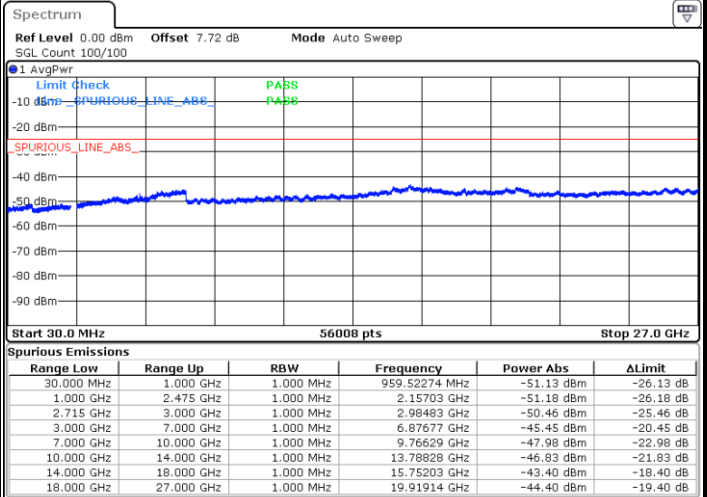
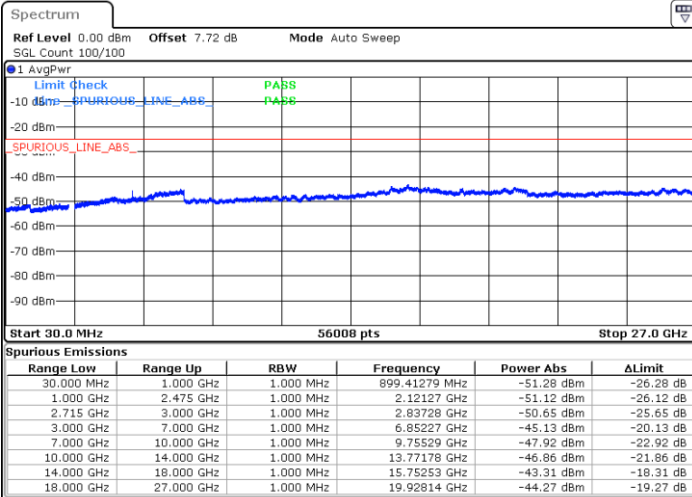
Date: 28 JUN 2017 23:32:15



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

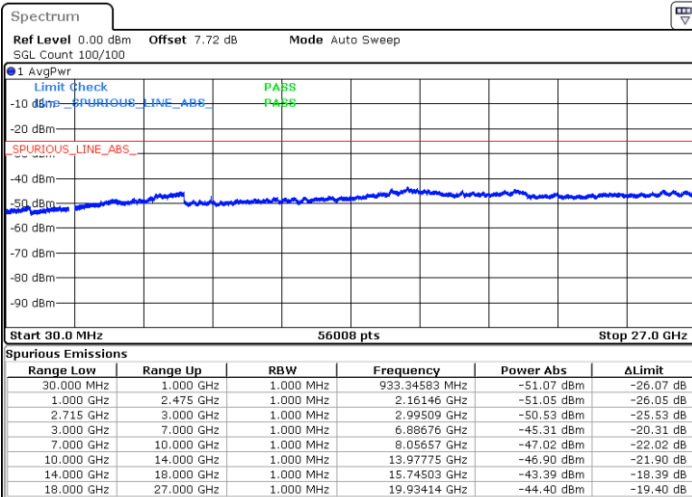
Middle Channel / 64QAM



Date: 28 JUN 2017 22:11:43

Date: 28 JUN 2017 22:14:29

Highest Channel / 64QAM



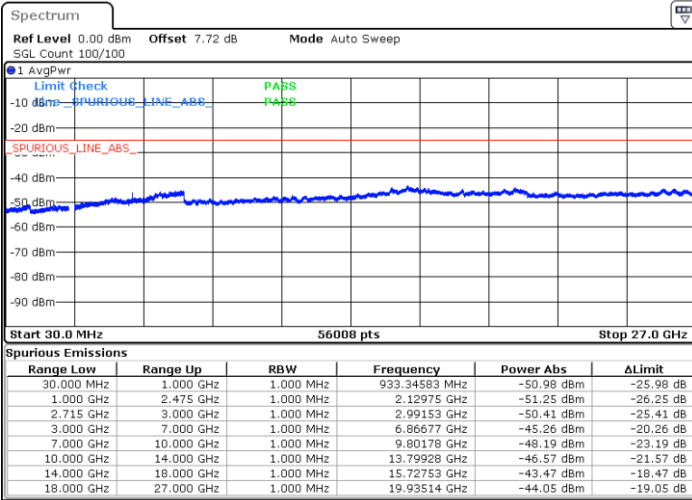
Date: 28 JUN 2017 22:17:11



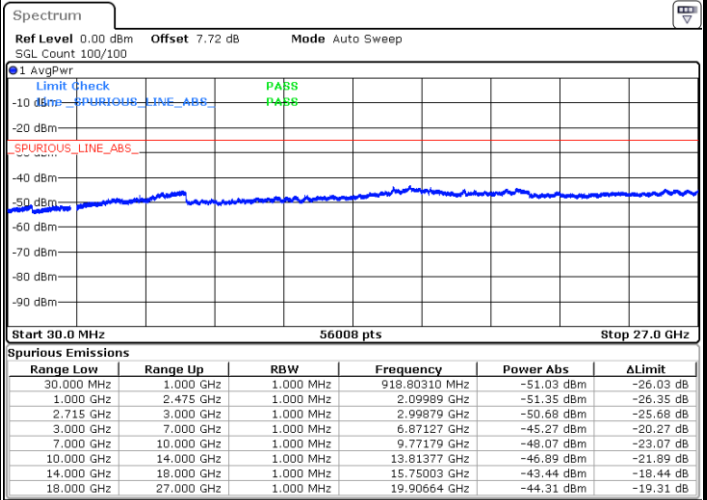
LTE Band 41 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

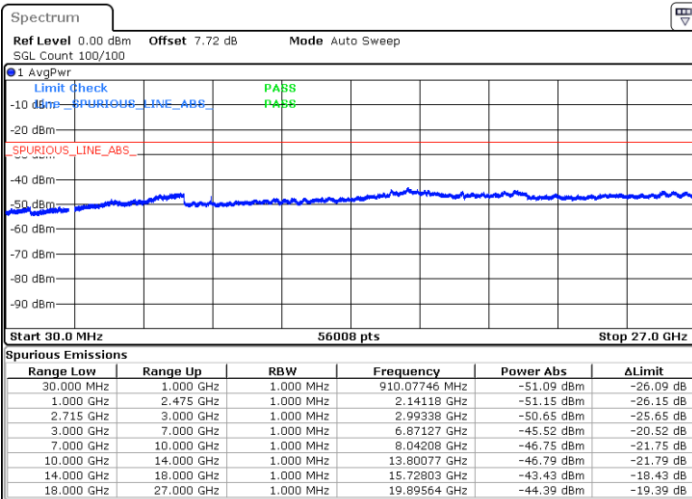


Date: 28 JUN 2017 22:36:27



Date: 28 JUN 2017 22:39:01

Highest Channel / 64QAM



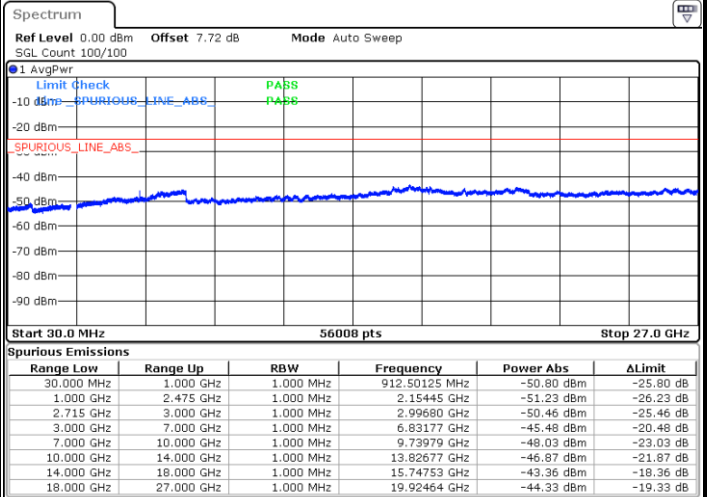
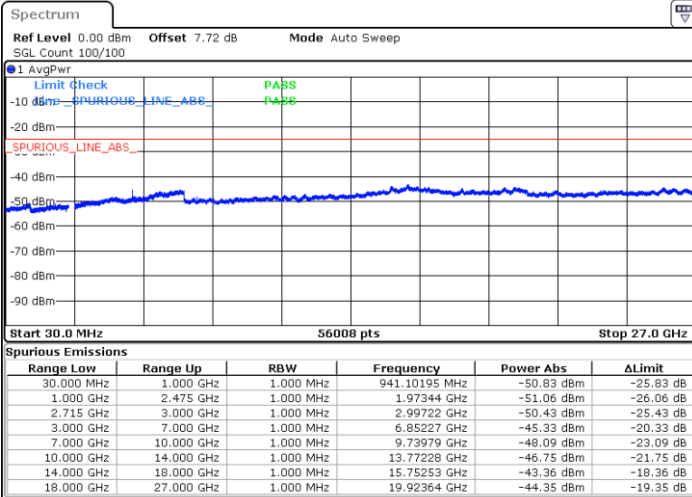
Date: 28 JUN 2017 22:41:36



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

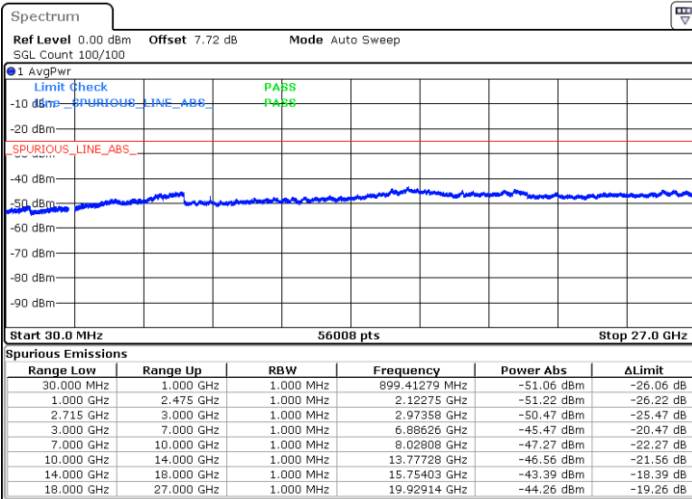
Middle Channel / 64QAM



Date: 28 JUN 2017 22:57:18

Date: 28 JUN 2017 22:59:53

Highest Channel / 64QAM



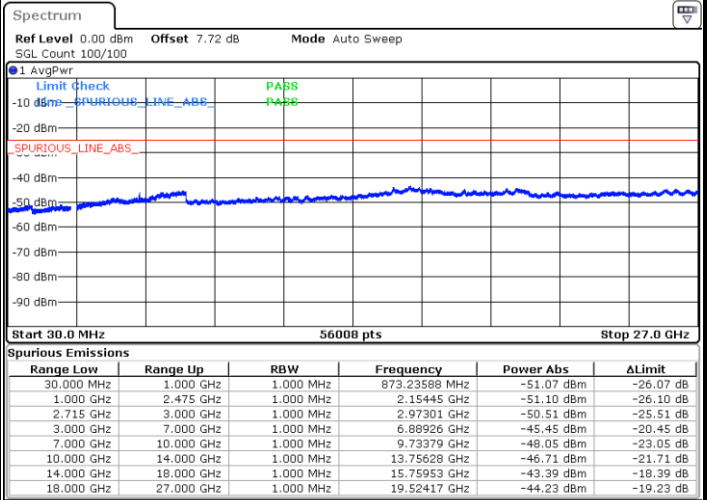
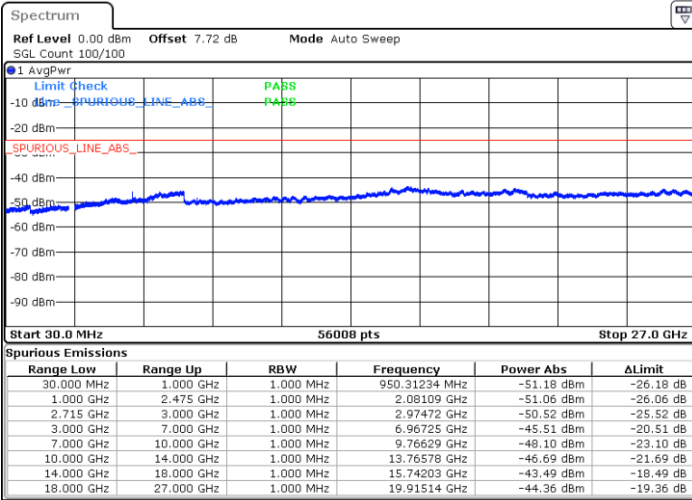
Date: 28 JUN 2017 23:02:29



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

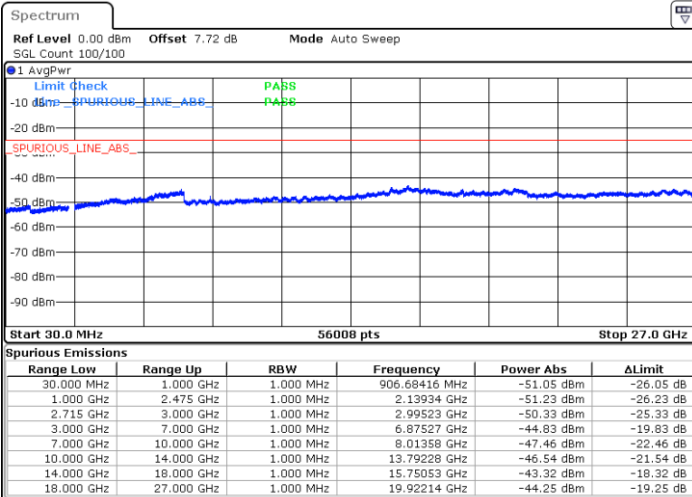
Middle Channel / 64QAM



Date: 28 JUN 2017 23:27:50

Date: 28 JUN 2017 23:30:24

Highest Channel / 64QAM



Date: 28 JUN 2017 23:33:07



### 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	0.0014	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0018	

**Note:**

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.65 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	0.0007	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0002	

**Note:**

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.65 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	0.0020	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0024	

**Note:**

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.65 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 / 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	3759	-44.33	-13	-31.33	-58.57	-46.04	5.08	6.80	H
	5637	-58.43	-13	-45.43	-75.23	-60.10	8.03	9.70	H
	7518	-54.19	-13	-41.19	-75.49	-56.57	9.43	11.81	H
	3759	-43.38	-13	-30.38	-57.65	-45.10	5.08	6.80	V
	5637	-58.44	-13	-45.44	-75.53	-60.11	8.03	9.70	V
	7518	-55.52	-13	-42.52	-76.66	-57.90	9.43	11.81	V

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

LTE Band 2 / 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	3756	-40.86	-13	-27.86	-55.84	-42.58	5.08	6.80	H
	5637	-58.50	-13	-45.50	-75.30	-60.17	8.03	9.70	H
	7515	-55.41	-13	-42.41	-76.71	-57.79	9.43	11.81	H
	3756	-43.85	-13	-30.85	-58.01	-45.57	5.08	6.80	V
	5637	-58.37	-13	-45.37	-75.46	-60.04	8.03	9.70	V
	7515	-55.05	-13	-42.05	-76.19	-57.43	9.43	11.81	V

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

LTE Band 2 / 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	3756	-39.94	-13	-26.94	-55.27	-41.66	5.08	6.80	H
	5634	-57.67	-13	-44.67	-74.47	-59.34	8.03	9.70	H
	7512	-53.24	-13	-40.24	-74.54	-55.62	9.43	11.81	H
	3756	-39.33	-13	-26.33	-54.77	-41.05	5.08	6.80	V
	5634	-58.46	-13	-45.46	-75.55	-60.13	8.03	9.70	V
	7512	-55.62	-13	-42.62	-76.76	-58.00	9.43	11.81	V

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



LTE Band 2 / 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	3750	-56.48	-13	-43.48	-70.72	-58.19	5.08	6.80	H
	5625	-52.76	-13	-39.76	-69.56	-54.43	8.03	9.70	H
	7503	-54.19	-13	-41.19	-75.49	-56.57	9.43	11.81	H
	3750	-53.22	-13	-40.22	-65.65	-54.93	5.08	6.80	V
	5625	-53.15	-13	-40.15	-70.24	-54.82	8.03	9.70	V
	7503	-53.84	-13	-40.84	-74.98	-56.22	9.43	11.81	V

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

LTE Band 2 / 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	3747	-42.62	-13	-29.62	-57.08	-44.34	5.08	6.80	H
	5620	-57.87	-13	-44.87	-74.67	-59.54	8.03	9.70	H
	7494	-55.40	-13	-42.40	-76.70	-57.78	9.43	11.81	H
	3747	-41.01	-13	-28.01	-55.91	-42.73	5.08	6.80	V
	5620	-56.43	-13	-43.43	-73.52	-58.10	8.03	9.70	V
	7494	-55.29	-13	-42.29	-76.43	-57.67	9.43	11.81	V

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

LTE Band 2 / 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	3741	-40.37	-13	-27.37	-55.55	-42.09	5.08	6.80	H
	5613	-57.62	-13	-44.62	-74.42	-59.29	8.03	9.70	H
	7485	-55.64	-13	-42.64	-76.94	-58.02	9.43	11.81	H
	3741	-38.68	-13	-25.68	-54.28	-40.40	5.08	6.80	V
	5613	-57.48	-13	-44.48	-74.57	-59.15	8.03	9.70	V
	7485	-56.04	-13	-43.04	-77.18	-58.42	9.43	11.81	V

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



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	-58.67	-13	-45.67	-67.57	-62.64	4.87	8.84	H
	5196	-45.71	-13	-32.71	-61.60	-47.15	7.70	9.14	H
	6927	-58.84	-13	-45.84	-77.31	-60.52	8.98	10.66	H
	3465	-53.39	-13	-40.39	-65.01	-57.36	4.87	8.84	V
	5196	-47.21	-13	-34.21	-62.06	-48.66	7.70	9.14	V
	6927	-59.10	-13	-46.10	-77.12	-60.78	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	-58.48	-13	-45.48	-67.38	-62.45	4.87	8.84	H
	5193	-37.35	-13	-24.35	-56.01	-38.79	7.70	9.14	H
	6924	-58.45	-13	-45.45	-76.92	-60.13	8.98	10.66	H
	3462	-54.94	-13	-41.94	-66.56	-58.91	4.87	8.84	V
	5193	-48.92	-13	-35.92	-63.02	-50.37	7.70	9.14	V
	6924	-58.30	-13	-45.30	-76.32	-59.98	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	-57.37	-13	-44.37	-66.27	-61.34	4.87	8.84	H
	5190	-41.90	-13	-28.90	-59.41	-43.34	7.70	9.14	H
	6921	-57.77	-13	-44.77	-76.24	-59.45	8.98	10.66	H
	3459	-51.94	-13	-38.94	-63.87	-55.91	4.87	8.84	V
	5190	-51.55	-13	-38.55	-65.6	-52.99	7.70	9.14	V
	6921	-58.86	-13	-45.86	-76.88	-60.54	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	-58.66	-13	-45.66	-67.56	-62.63	4.87	8.84	H
	5184	-45.02	-13	-32.02	-61.07	-46.46	7.70	9.14	H
	6912	-57.51	-13	-44.51	-75.98	-59.19	8.98	10.66	H
	3456	-54.96	-13	-41.96	-66.58	-58.93	4.87	8.84	V
	5184	-53.09	-13	-40.09	-67.14	-54.53	7.70	9.14	V
	6912	-58.36	-13	-45.36	-76.38	-60.04	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	-59.04	-13	-46.04	-67.94	-63.01	4.87	8.84	H
	5178	-43.92	-13	-30.92	-60.75	-45.36	7.70	9.14	H
	6903	-58.57	-13	-45.57	-77.04	-60.25	8.98	10.66	H
	3450	-53.47	-13	-40.47	-65.09	-57.44	4.87	8.84	V
	5178	-49.69	-13	-36.69	-63.74	-51.13	7.70	9.14	V
	6903	-59.16	-13	-46.16	-77.18	-60.84	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	-56.58	-13	-43.58	-65.48	-60.55	4.87	8.84	H
	5169	-44.00	-13	-31.00	-60.82	-45.44	7.70	9.14	H
	6894	-58.29	-13	-45.29	-76.76	-59.97	8.98	10.66	H
	3447	-48.44	-13	-35.44	-62.36	-52.41	4.87	8.84	V
	5172	-54.29	-13	-41.29	-68.34	-55.73	7.70	9.14	V
	6894	-59.12	-13	-46.12	-77.14	-60.80	8.98	10.66	V

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



LTE Band 41 / 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	5183	-67.64	-25	-42.64	-55.51	-74.19	2.56	9.12	H
	7772	-55.26	-25	-30.26	-49.58	-63.77	3.45	11.97	H
	10360	-62.28	-25	-37.28	-62.03	-70.76	3.62	12.10	H
	5183	-68.95	-25	-43.95	-56.95	-75.50	2.56	9.12	V
	7772	-56.24	-25	-31.24	-49.22	-64.75	3.45	11.97	V
	10360	-61.04	-25	-36.04	-61.29	-69.52	3.62	12.10	V

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

LTE Band 41 / 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	5177	-66.21	-25	-41.21	-54.08	-72.76	2.56	9.12	H
	7766	-52.91	-25	-27.91	-47.23	-61.42	3.45	11.97	H
	10350	-62.02	-25	-37.02	-61.77	-70.50	3.62	12.10	H
	5177	-66.45	-25	-41.45	-54.45	-73.00	2.56	9.12	V
	7766	-55.38	-25	-30.38	-48.36	-63.89	3.45	11.97	V
	10350	-61.35	-25	-36.35	-61.6	-69.83	3.62	12.10	V

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



LTE Band 41 / 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	5174	-68.86	-25	-43.86	-56.73	-75.41	2.56	9.12	H
	7757	-56.88	-25	-31.88	-51.20	-65.39	3.45	11.97	H
	10350	-63.11	-25	-38.11	-62.86	-71.59	3.62	12.10	H
	5174	-68.77	-25	-43.77	-56.77	-75.32	2.56	9.12	V
	7757	-58.03	-25	-33.03	-51.01	-66.54	3.45	11.97	V
	10350	-61.20	-25	-36.20	-61.45	-69.68	3.62	12.10	V

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

LTE Band 41 / 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	5168	-67.47	-25	-42.47	-55.34	-74.02	2.56	9.12	H
	7751	-50.10	-25	-25.10	-44.42	-58.61	3.45	11.97	H
	10340	-62.73	-25	-37.73	-62.48	-71.21	3.62	12.10	H
	5168	-67.39	-25	-42.39	-55.39	-73.94	2.56	9.12	V
	7751	-56.96	-25	-31.96	-49.94	-65.47	3.45	11.97	V
	10340	-61.78	-25	-36.78	-62.03	-70.26	3.62	12.10	V

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



## **Appendix D. Reference Report**

Please refer to Sporton report number FG761702-01B which is issued separately.