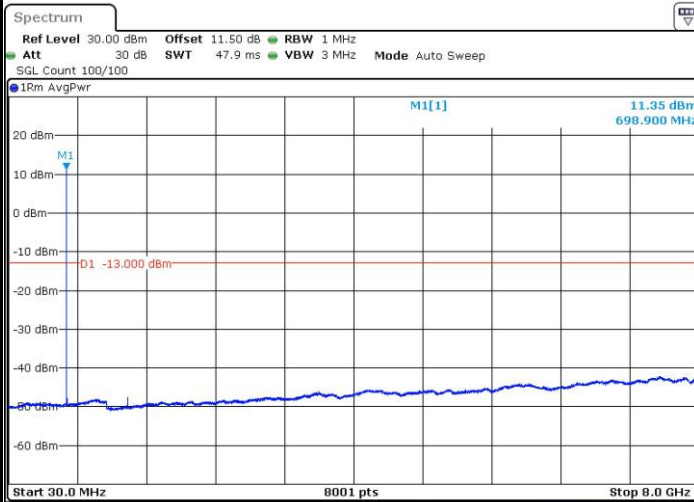




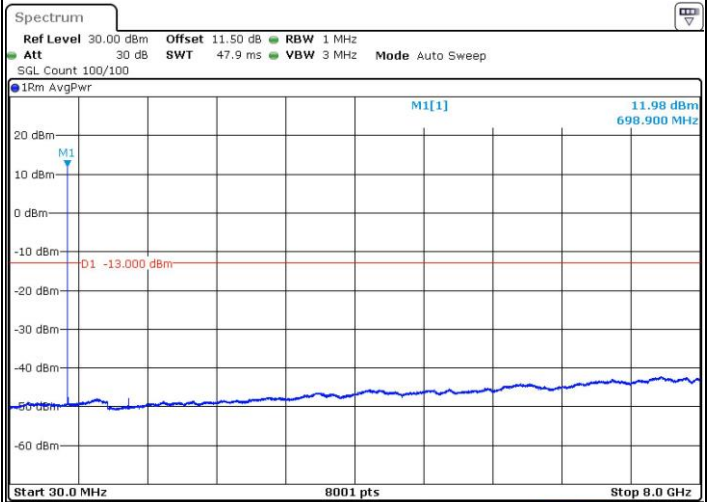
LTE NB1 Band 12 / 15kHz

Lowest Channel / BPSK



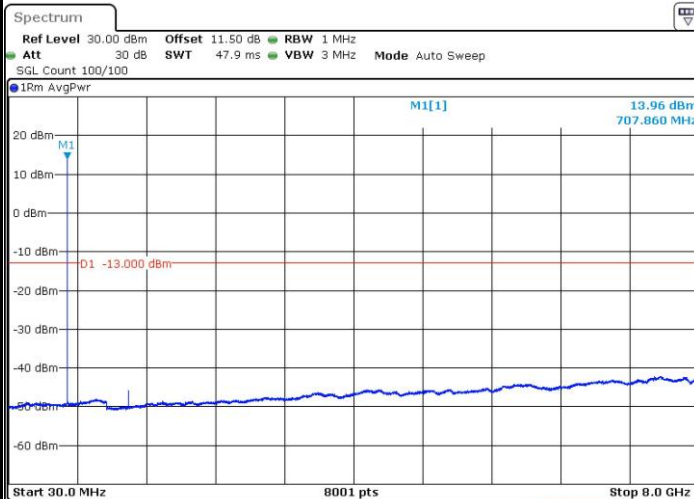
Date: 3 APR 2018 04:56:34

Lowest Channel / QPSK



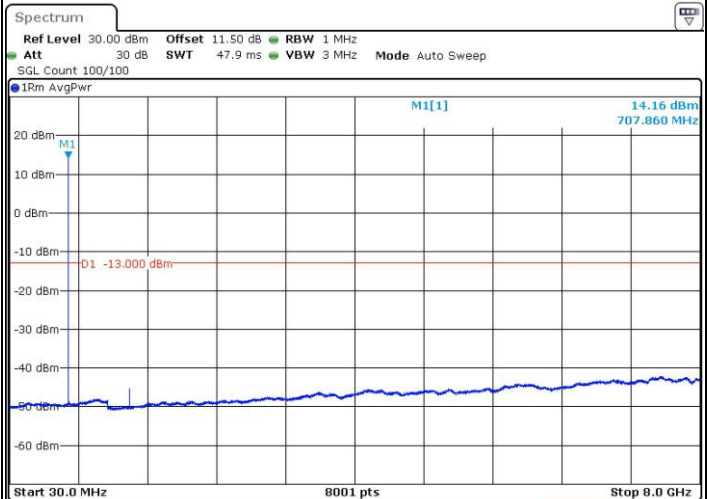
Date: 3 APR 2018 05:01:00

Middle Channel / BPSK



Date: 3 APR 2018 05:10:20

Middle Channel / QPSK



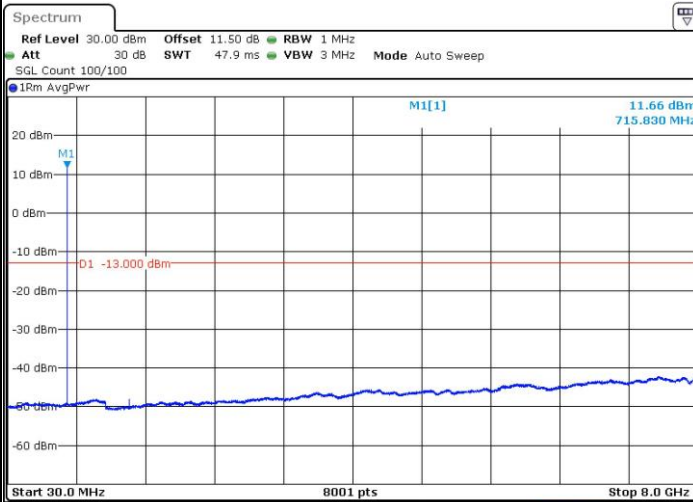
Date: 3 APR 2018 05:11:28



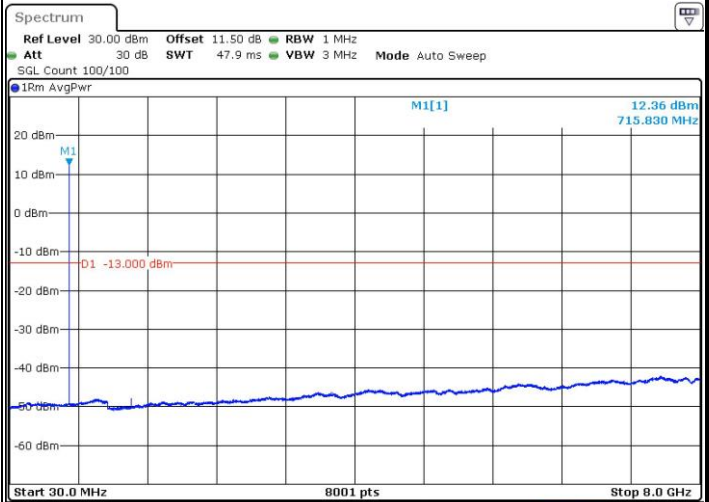
LTE NB1 Band 12 / 15kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 3.APR.2018 05:27:42



Date: 3.APR.2018 05:28:43

Frequency Stability

Test Conditions		LTE NB1 Band 12 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	15kHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0085	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0113	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0110	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE NB1 Band 13

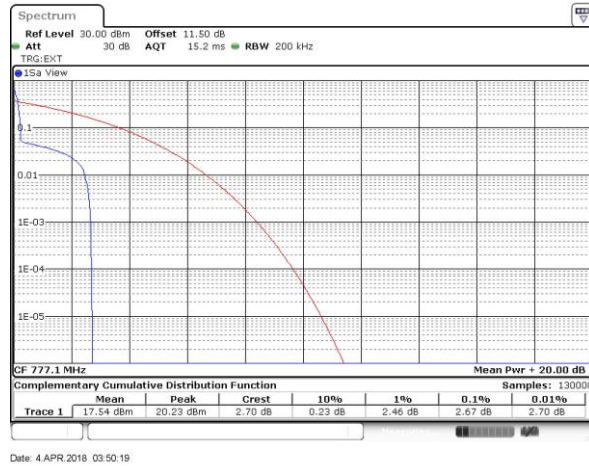
Peak-to-Average Ratio

Mode	LTE NB1 Band 13 / 15kHz			
Mod.	BPSK	QPSK		Limit: 13dB
T Size	1T	1T	Full T	Result
Lowest CH	2.67	2.17	3.51	PASS
Middle CH	2.67	2.20	3.59	
Highest CH	2.64	2.17	3.51	



LTE NB1 Band 13 / 15kHz / BPSK

Lowest Channel / 1T

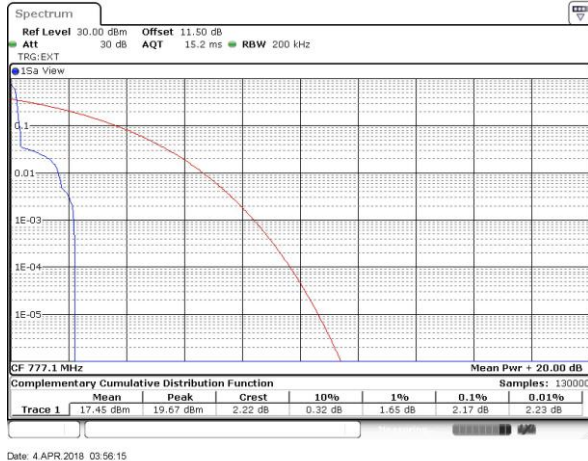
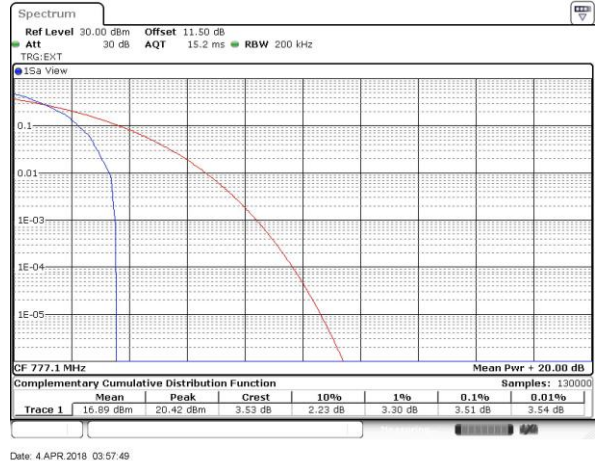
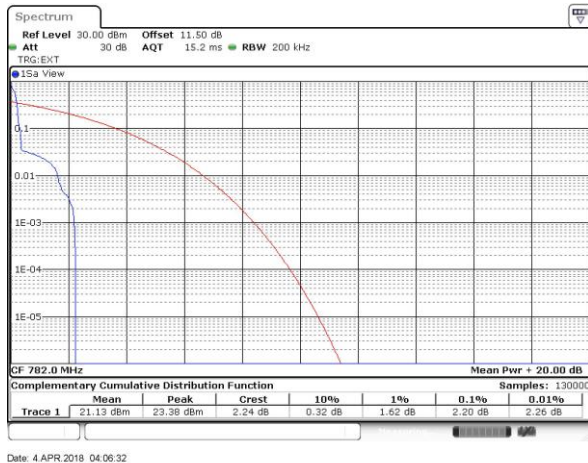
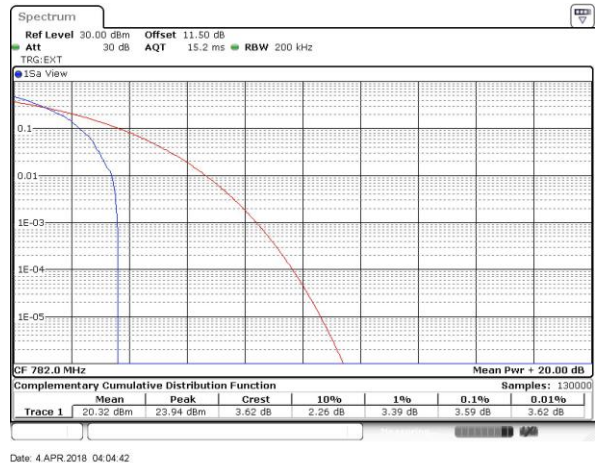
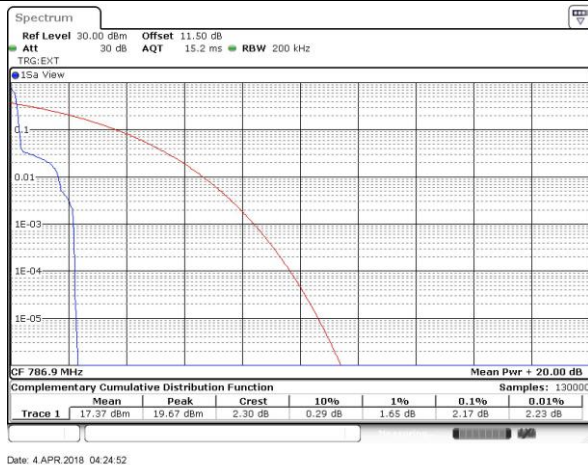


Middle Channel/ 1T



Highest Channel/ 1T



LTE NB1 Band 13 / 10MHz / QPSK
Lowest Channel / 1T

Lowest Channel / Full T

Middle Channel/ 1T

Middle Channel / Full T

Highest Channel/ 1T

Highest Channel / Full T

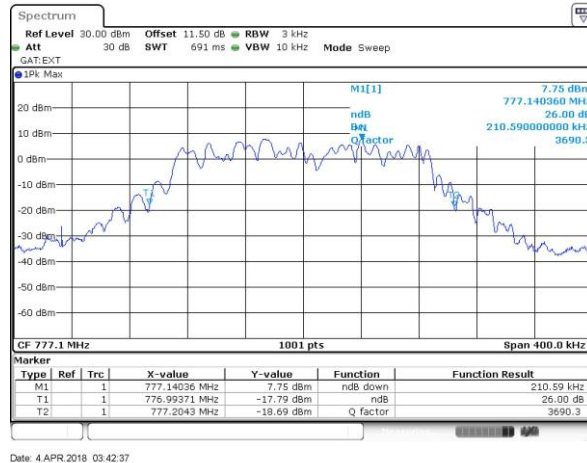

**26dB Bandwidth**

Mode Subcarrier Spacing Mod.	LTE NB1 Band 13 : 26dB(kHz) 15k QPSK
Lowest CH	210.59
Middle CH	210.59
Highest CH	210.59

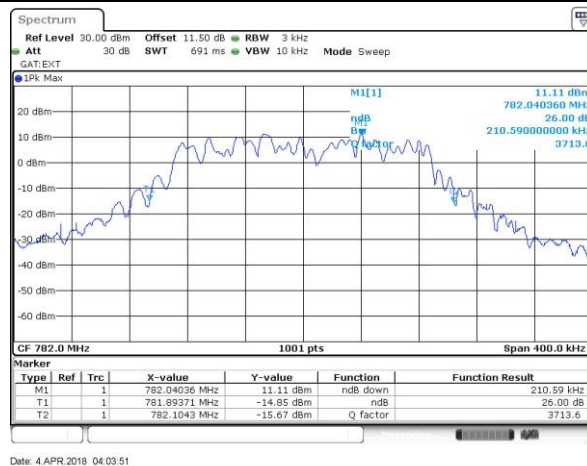


LTE NB1 Band 13

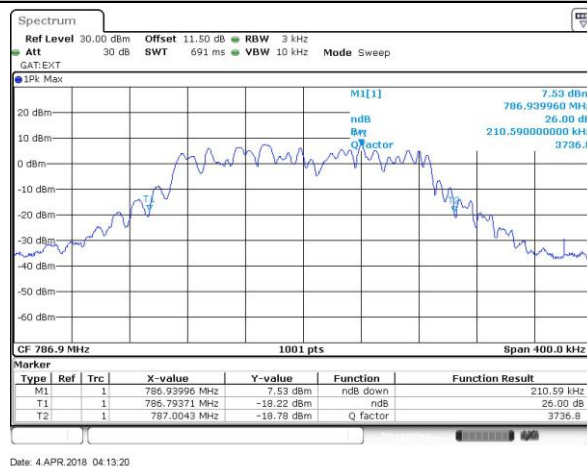
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK





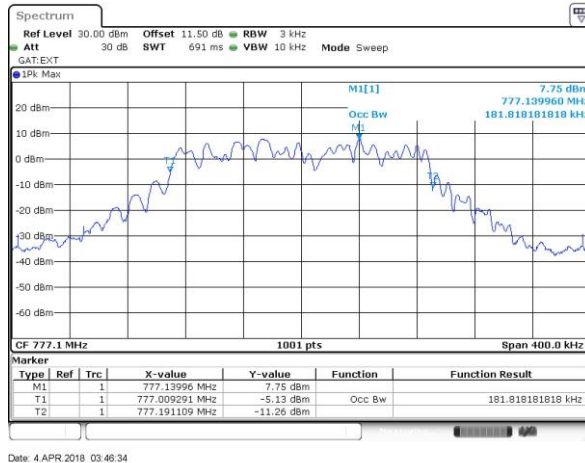
Occupied Bandwidth

Mode Subcarrier Spacing Mod.	LTE NB1 Band 13 : OB(kHz)	
	15k	QPSK
Lowest CH	181.82	
Middle CH	182.22	
Highest CH	181.82	

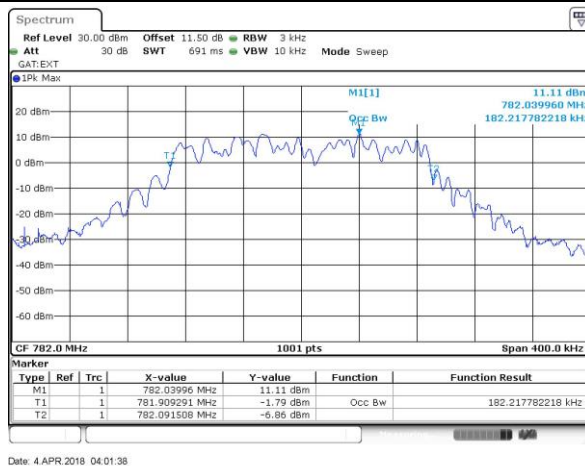


LTE NB1 Band 13

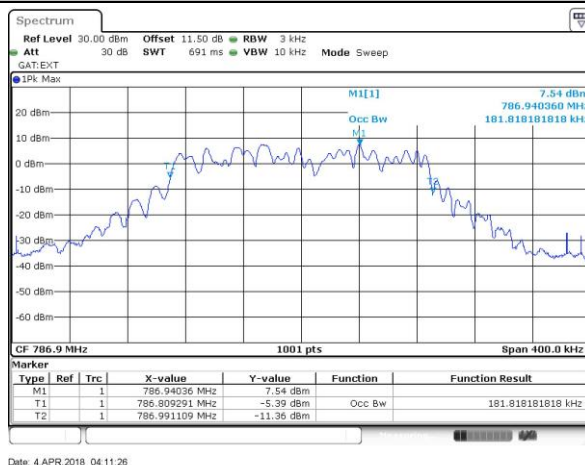
Lowest Channel / 15kHz / QPSK

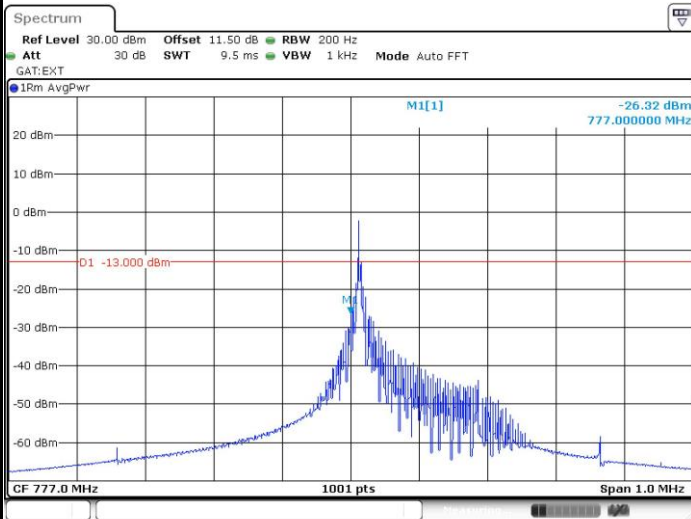
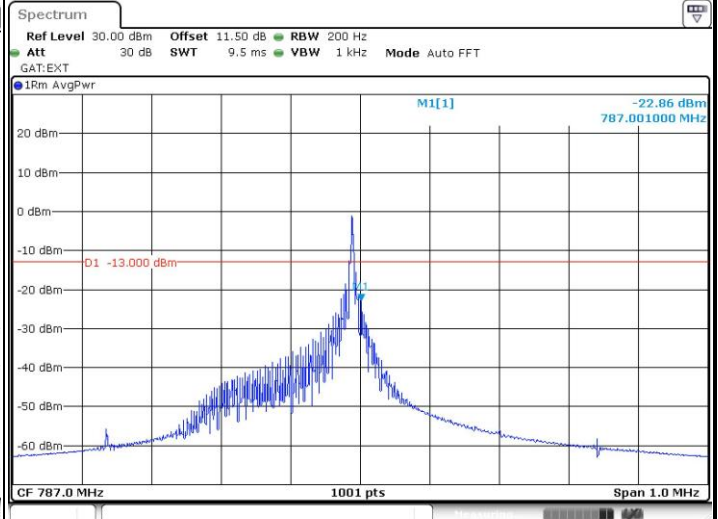
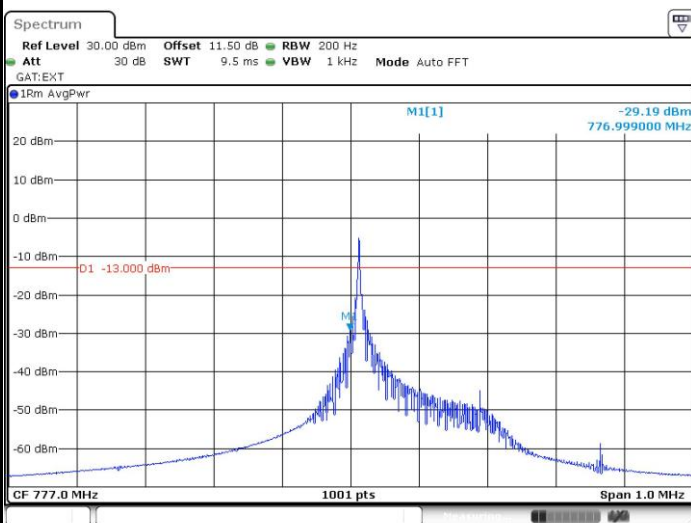
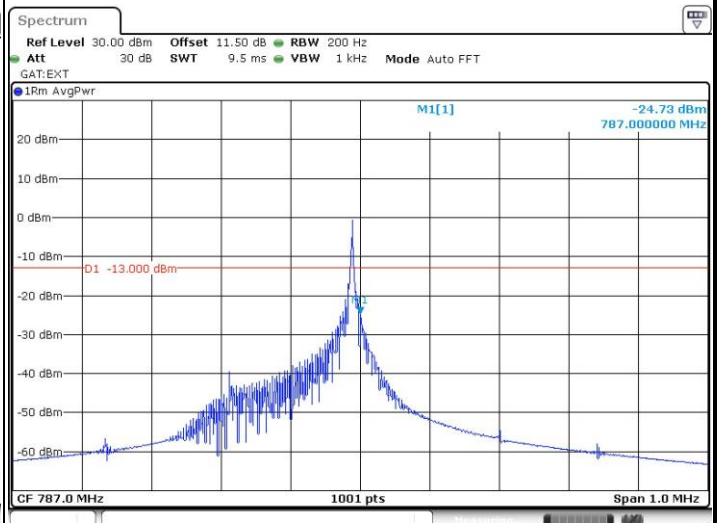


Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK

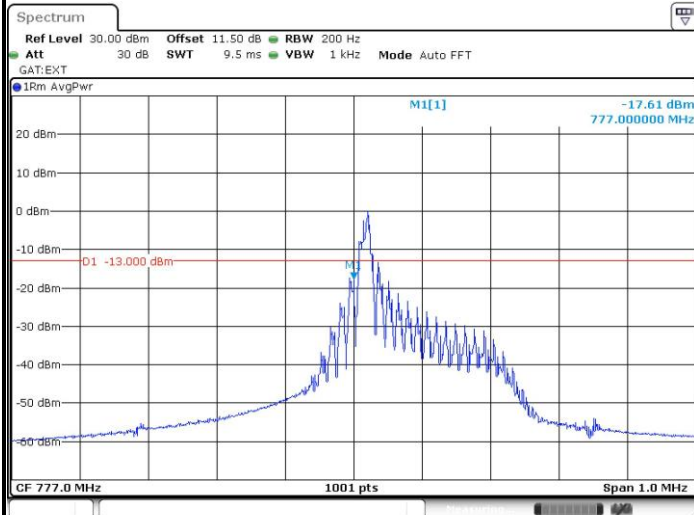


**Conducted Band Edge****LTE NB1 Band 13 / 3.75kHz / BPSK****Lowest Band Edge / 1 T****Highest Band Edge / 1 T****LTE Band 13 / 3.75kHz / QPSK****Lowest Band Edge / 1 T****Highest Band Edge / 1 T**



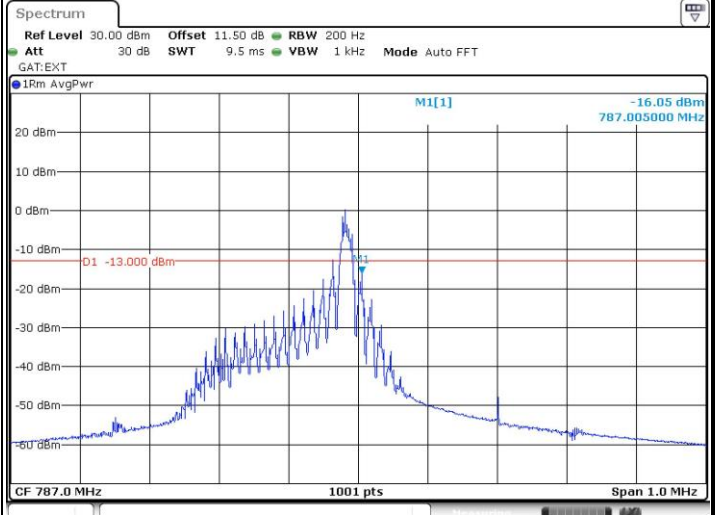
LTE NB1 Band 13 / 15kHz / BPSK

Lowest Band Edge / 1 T



Date: 13.APR.2018 13:58:29

Highest Band Edge / 1 T

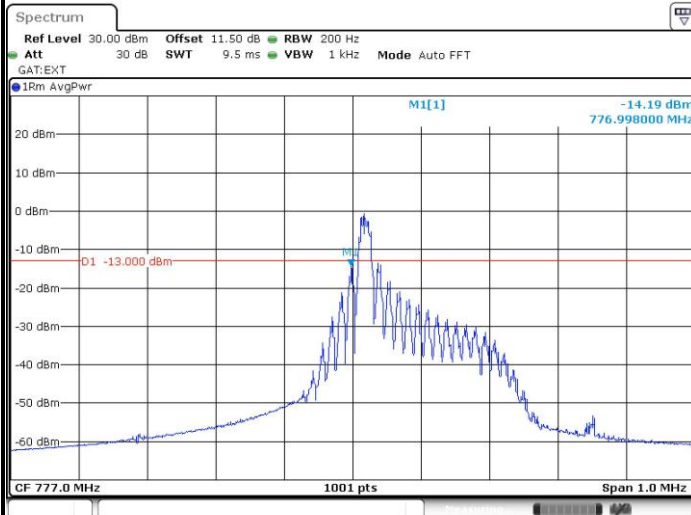


Date: 13.APR.2018 14:16:03



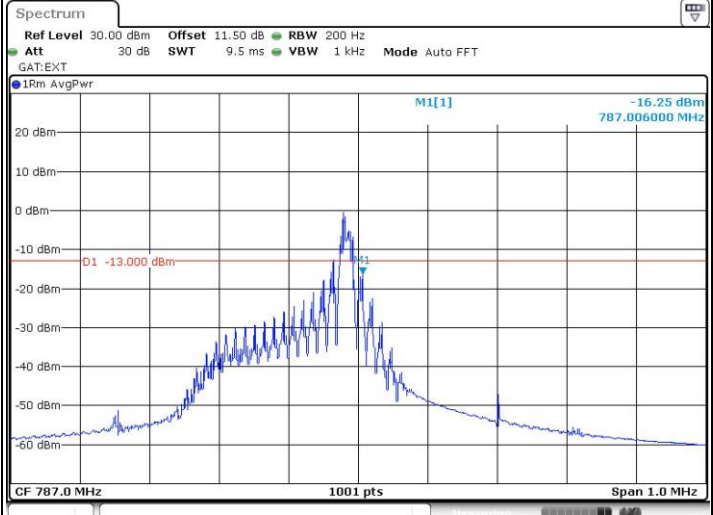
LTE NB1 Band 13 / 15kHz / QPSK

Lowest Band Edge / 1 T



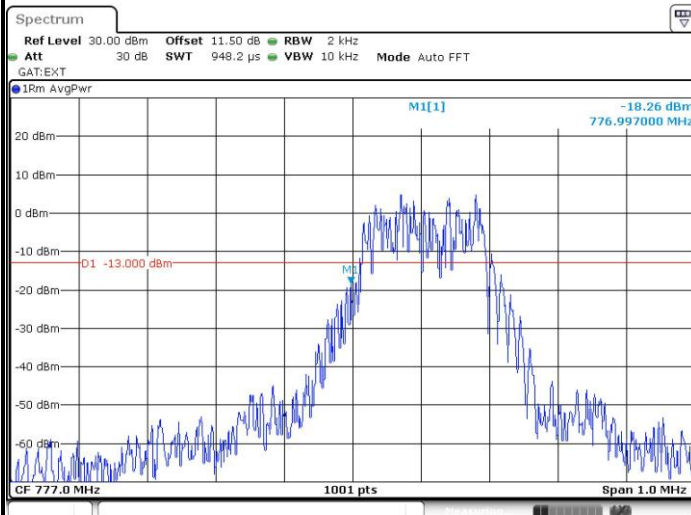
Date: 13.APR.2018 14:02:12

Lowest Band Edge / 1 T



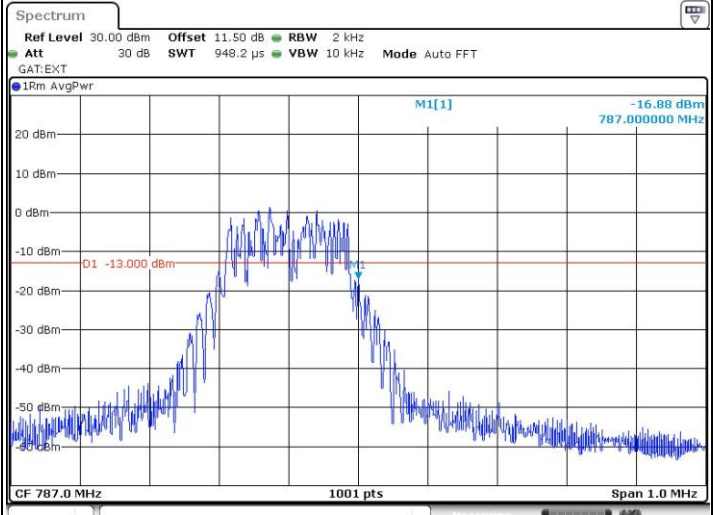
Date: 13.APR.2018 14:14:23

Lowest Band Edge / Full T

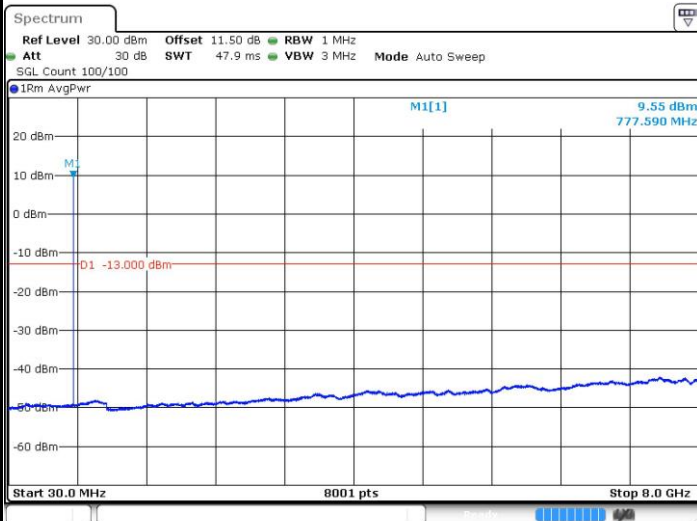
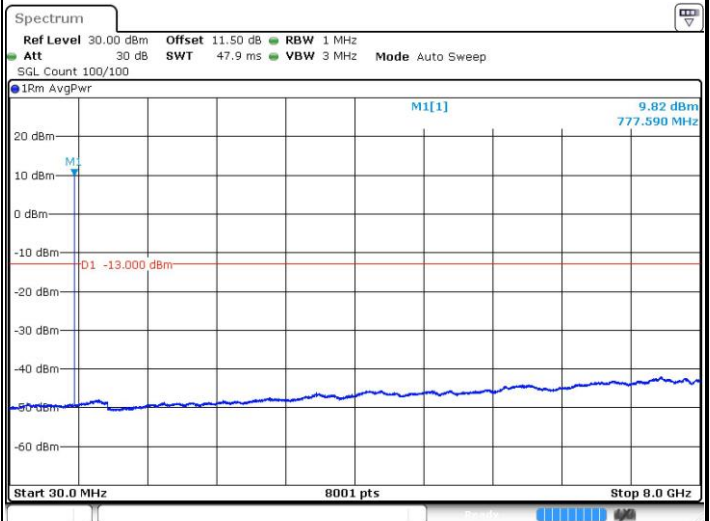
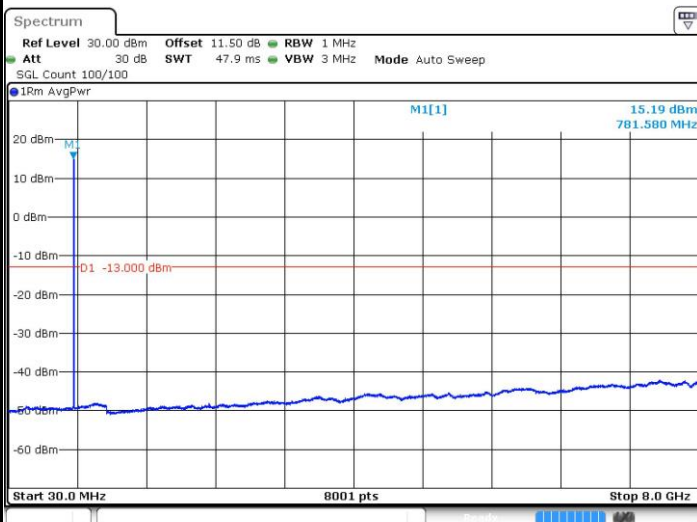
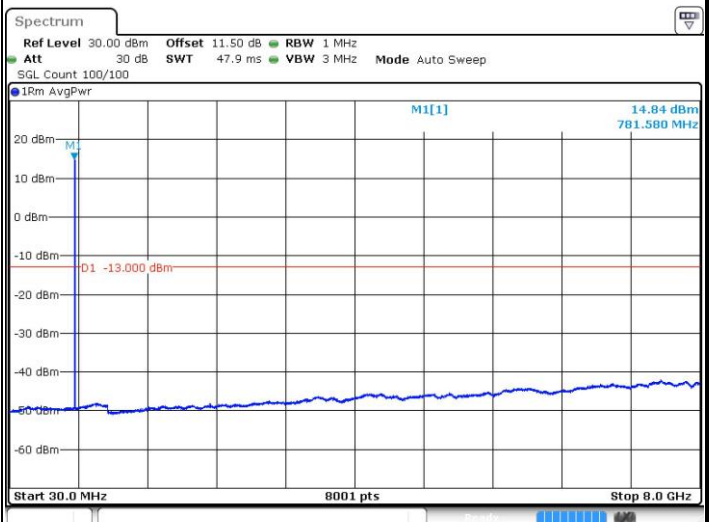


Date: 13.APR.2018 14:03:01

Lowest Band Edge / Full T



Date: 13.APR.2018 14:13:35

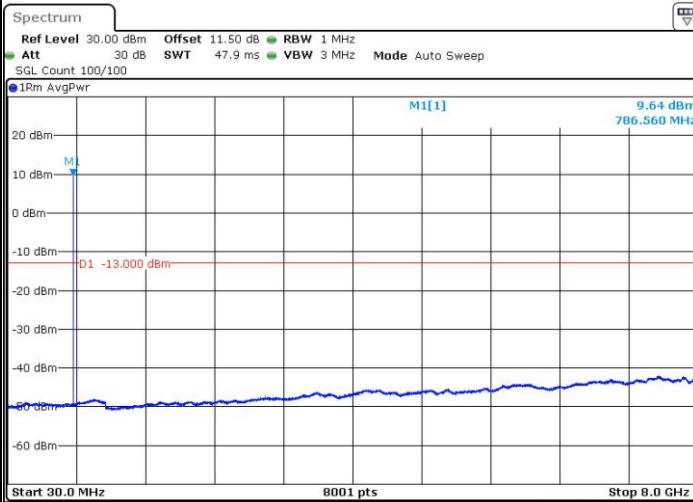
**Conducted Spurious Emission****LTE NB1 Band 13 / 3.75kHz****Lowest Channel / BPSK****Lowest Channel / QPSK****Middle Channel / BPSK****Middle Channel / QPSK**



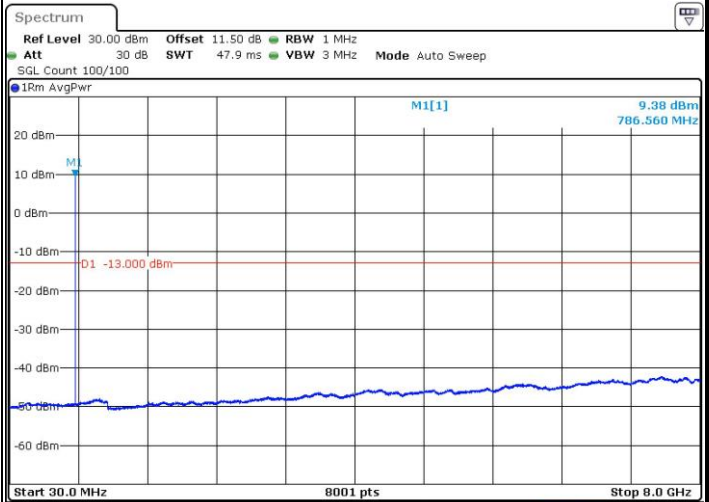
LTE NB1 Band 13 / 3.75kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 3 APR 2018 06:18:39

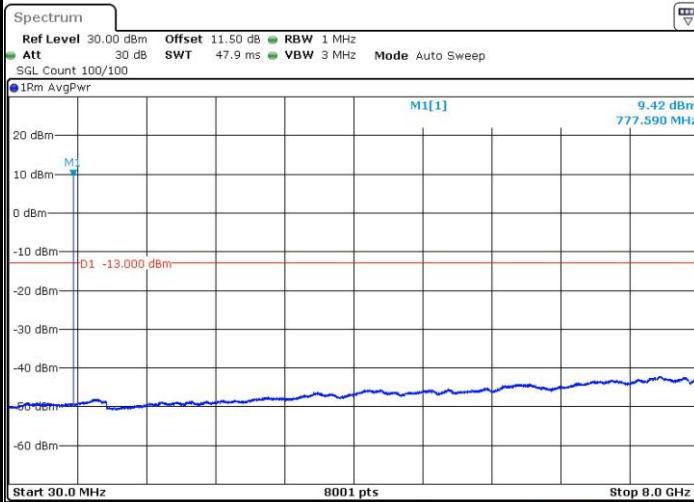


Date: 3 APR 2018 06:19:49



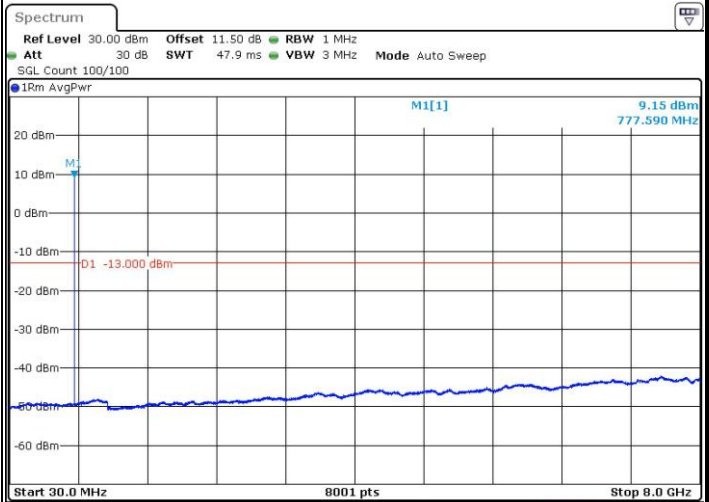
LTE NB1 Band 13 / 15kHz

Lowest Channel / BPSK



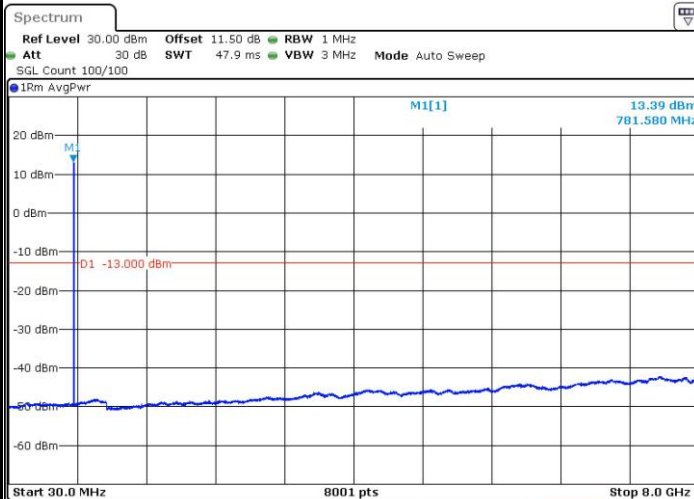
Date: 3 APR 2018 06:39:01

Lowest Channel / QPSK



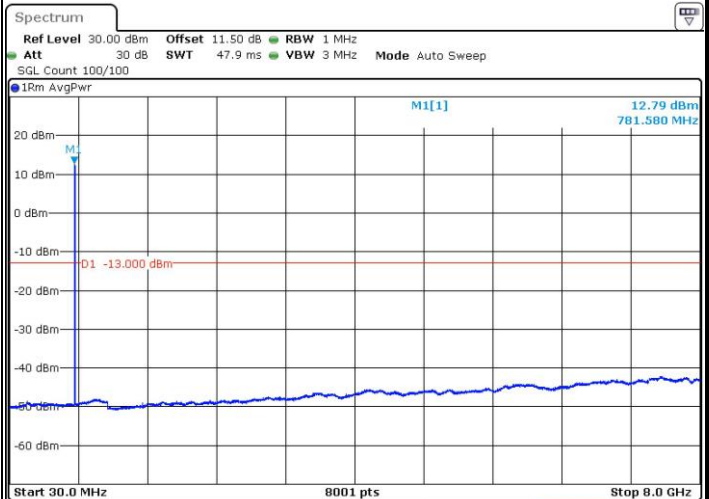
Date: 3 APR 2018 06:40:02

Middle Channel / BPSK



Date: 3 APR 2018 07:00:28

Middle Channel / QPSK



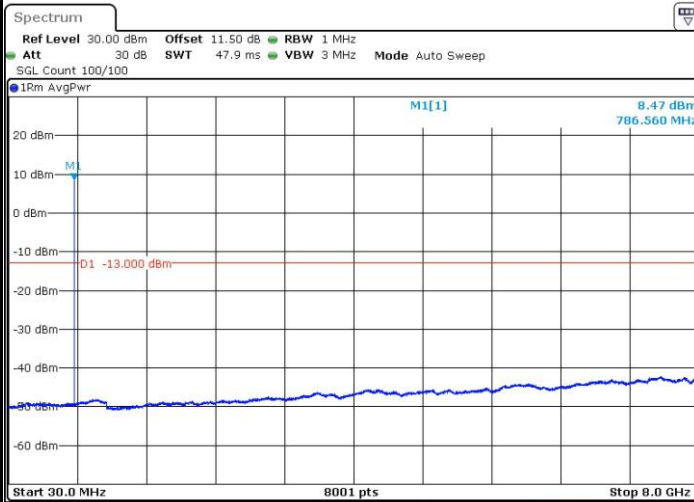
Date: 3 APR 2018 07:01:45



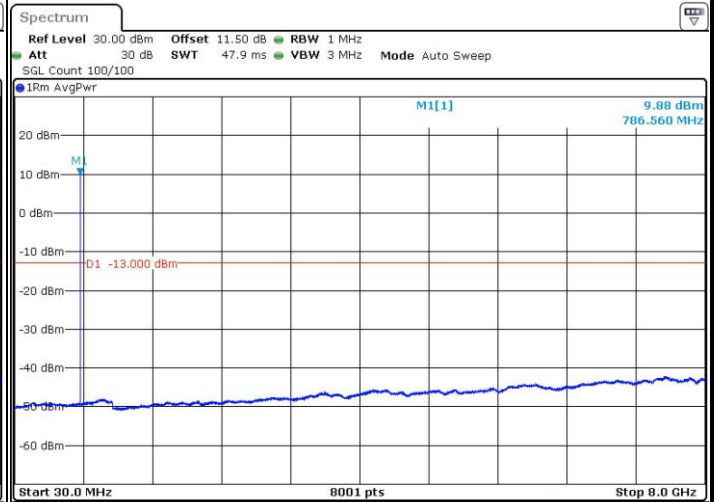
LTE NB1 Band 13 / 15kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 3 APR 2018 07:31:08



Date: 3 APR 2018 07:32:30

Frequency Stability

Test Conditions		LTE NB1 Band 13 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	15kHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0051	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE NB1 Band 26-22H

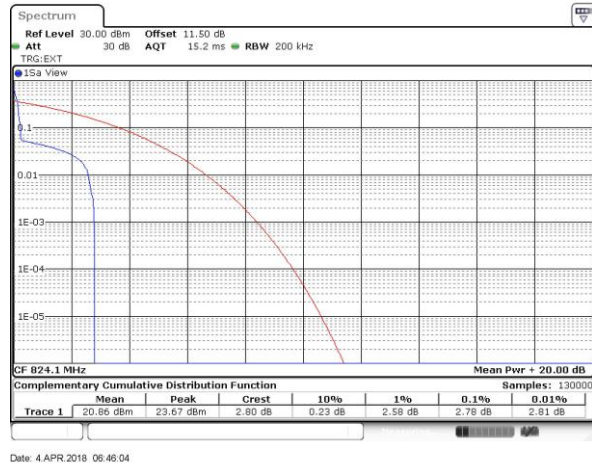
Peak-to-Average Ratio

Mode	LTE NB1 Band 26-22H / 15kHz			
Mod.	BPSK	QPSK		Limit: 13dB
T Size	1T	1T	Full T	Result
Lowest CH	2.78	2.32	3.77	PASS
Middle CH	2.81	2.38	3.83	
Highest CH	2.72	2.26	3.68	

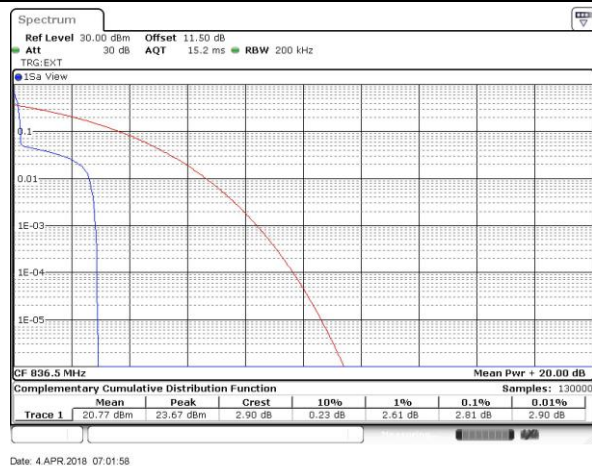


LTE NB1 Band 26-22H / 15kHz / BPSK

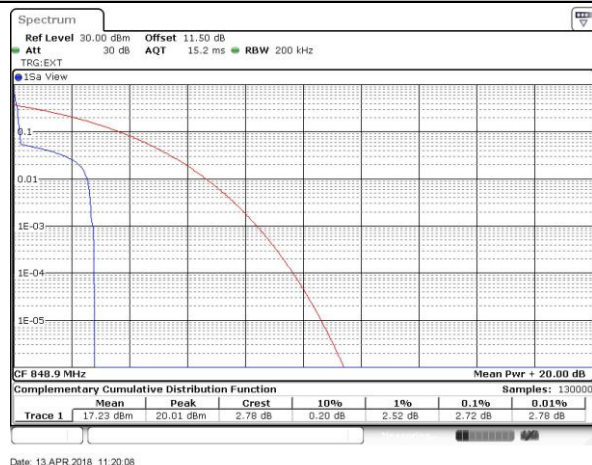
Lowest Channel / 1T

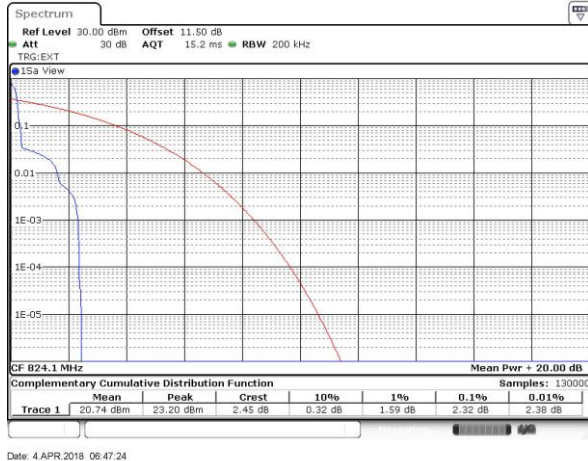
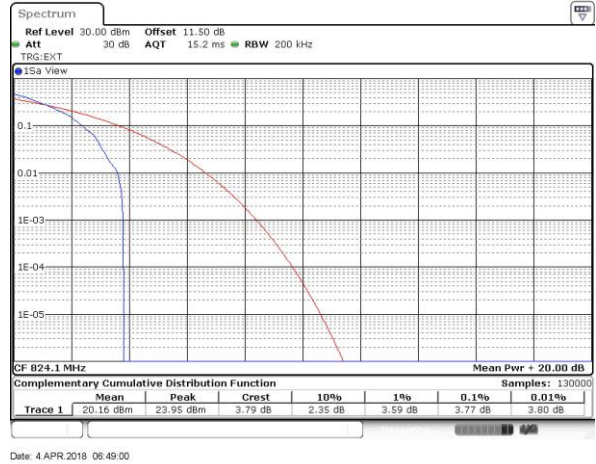
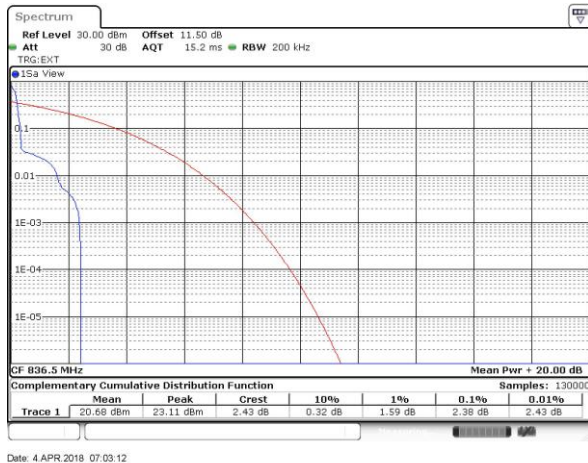
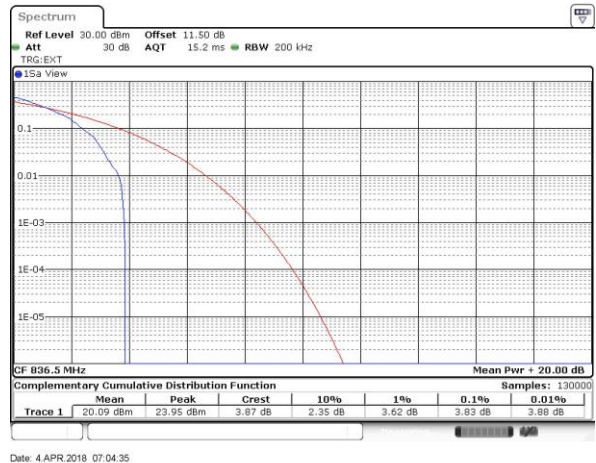


Middle Channel/ 1T



Highest Channel/ 1T



LTE NB1 Band 26-22H / 10MHz / QPSK
Lowest Channel / 1T

Lowest Channel / Full T

Middle Channel/ 1T

Middle Channel / Full T

Highest Channel/ 1T

Highest Channel / Full T



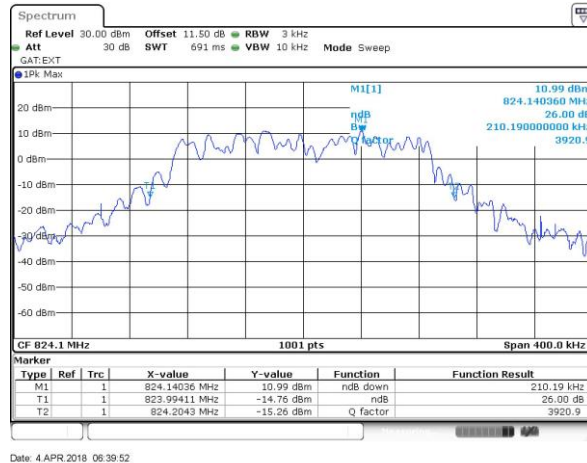

26dB Bandwidth

Mode Subcarrier Spacing Mod.	LTE NB1 Band 26-22H : 26dB(kHz) 15k QPSK
Lowest CH	210.19
Middle CH	210.19
Highest CH	210.59

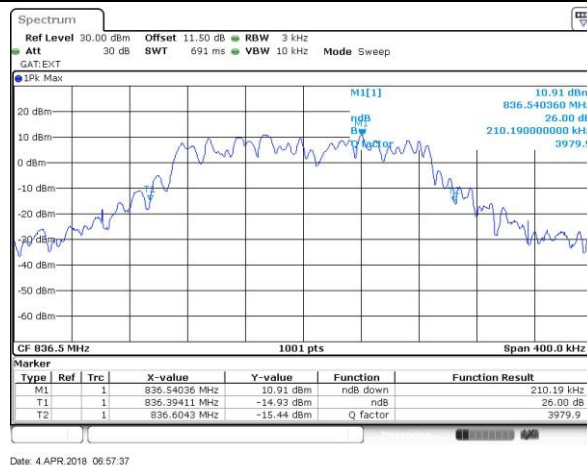


LTE NB1 Band 26-22H

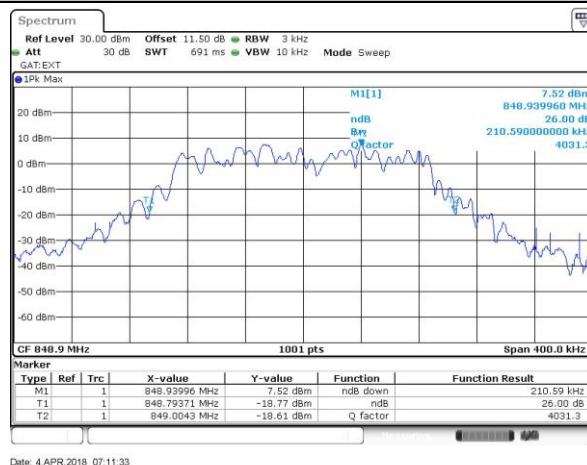
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK



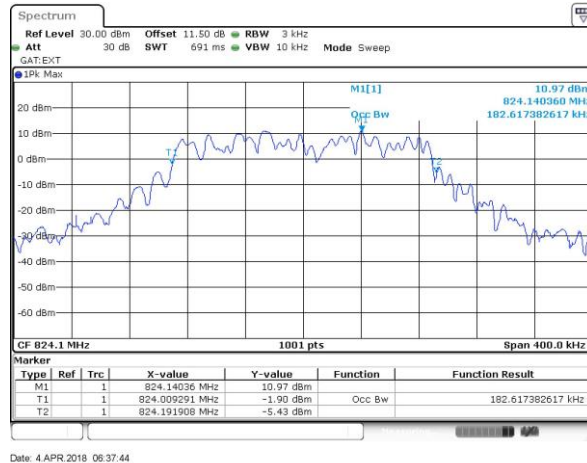
**Occupied Bandwidth**

Mode Subcarrier Spacing Mod.	LTE NB1 Band 26-22H : OB(kHz)	
	15k	QPSK
Lowest CH	182.62	
Middle CH	183.02	
Highest CH	182.22	

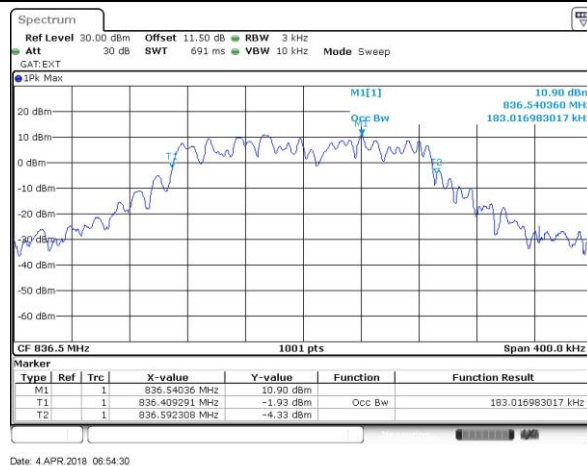


LTE NB1 Band 26-22H

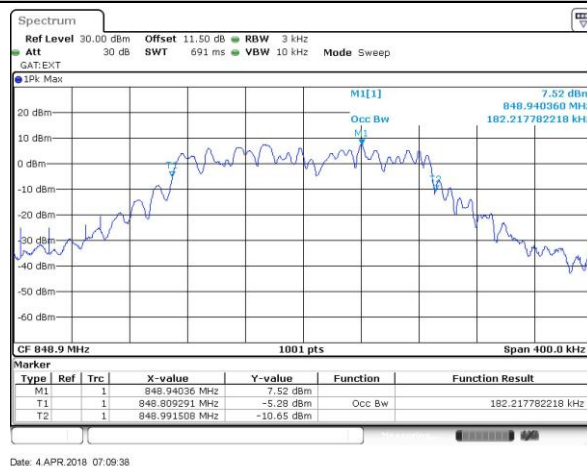
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK

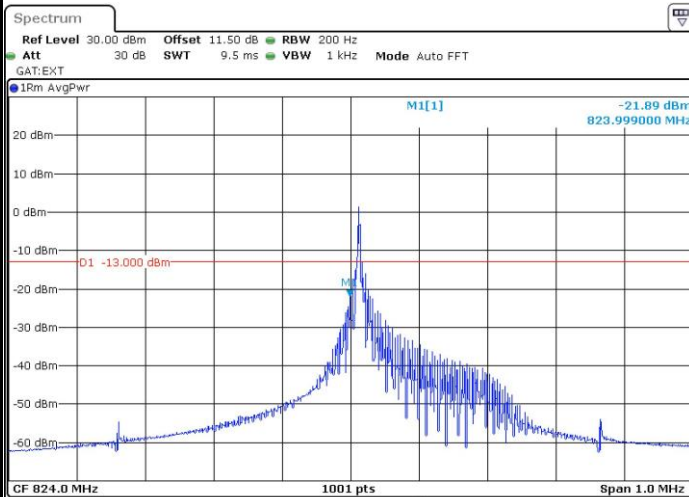




Conducted Band Edge

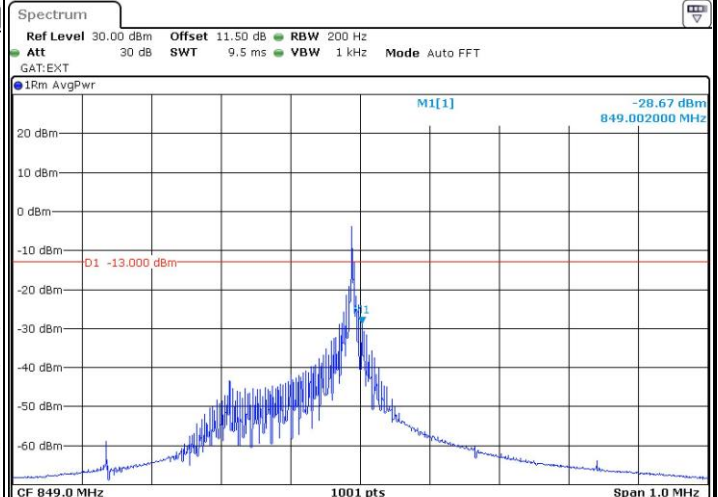
LTE NB1 Band 26-22H / 3.75kHz / BPSK

Lowest Band Edge / 1 T



Date: 13 APR 2018 11:05:08

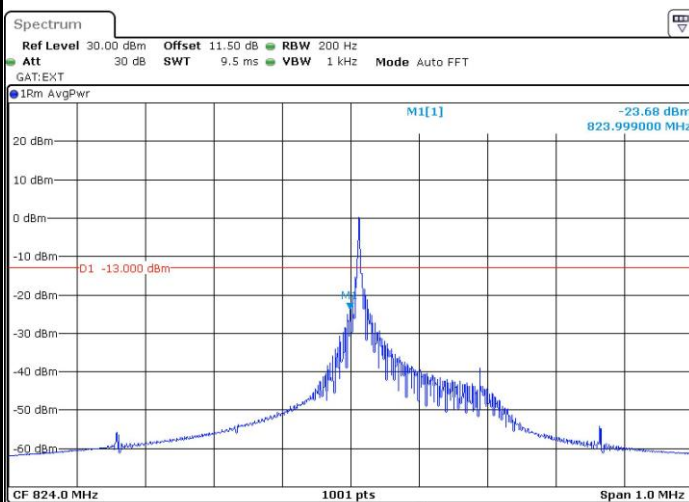
Highest Band Edge / 1 T



Date: 13 APR 2018 11:07:24

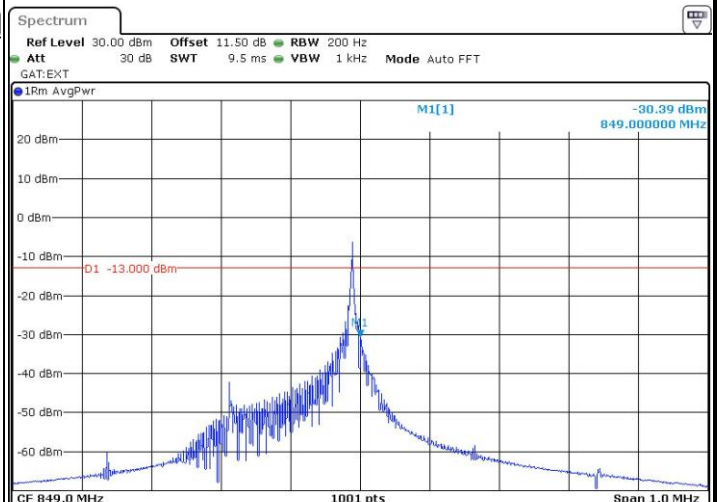
LTE NB1 Band 26-22H / 3.75kHz / QPSK

Lowest Band Edge / 1 T



Date: 13 APR 2018 11:04:39

Highest Band Edge / 1 T

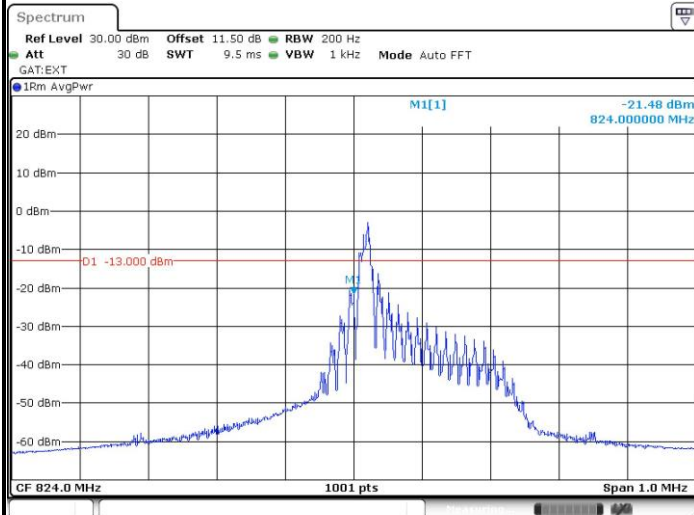


Date: 13 APR 2018 11:07:55



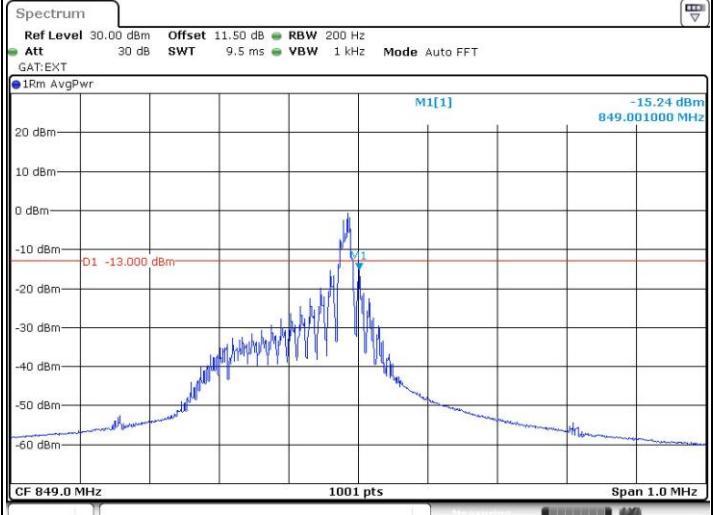
LTE NB1 Band 26-22H / 15kHz / BPSK

Lowest Band Edge / 1 T



Date: 13.APR.2018 10:53:44

Highest Band Edge / 1 T

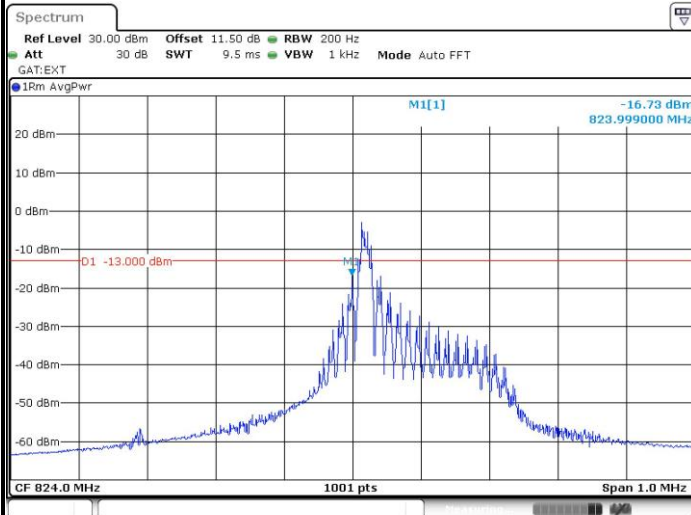


Date: 13.APR.2018 11:18:30



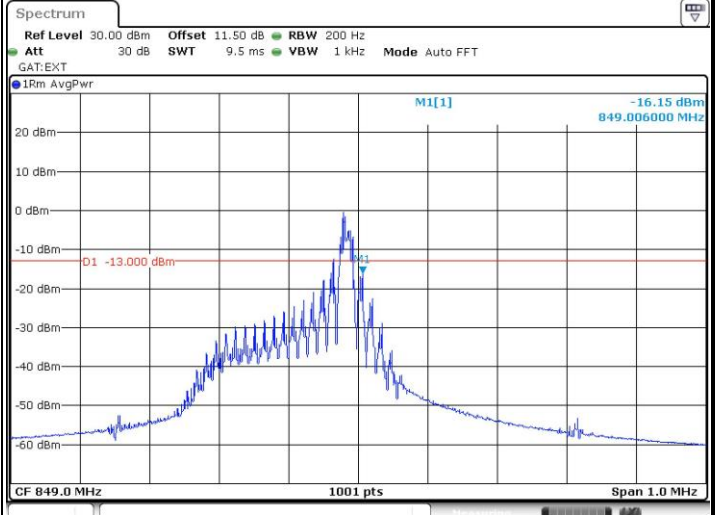
LTE NB1 Band 26-22H / 15kHz / QPSK

Lowest Band Edge / 1 T



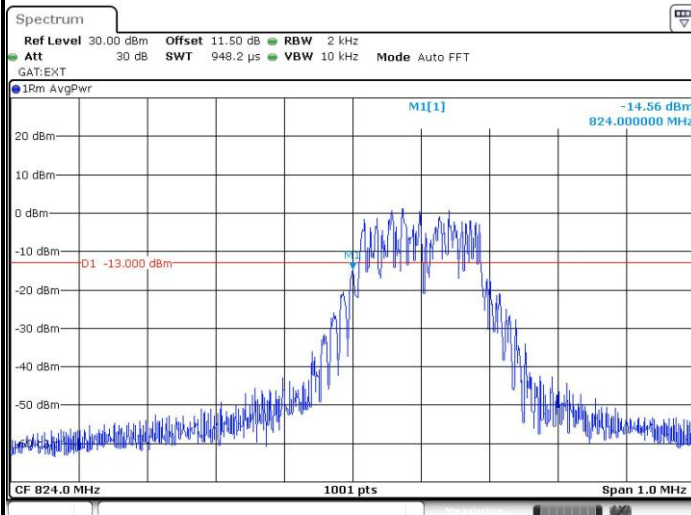
Date: 13.APR.2018 11:00:58

Lowest Band Edge / 1 T



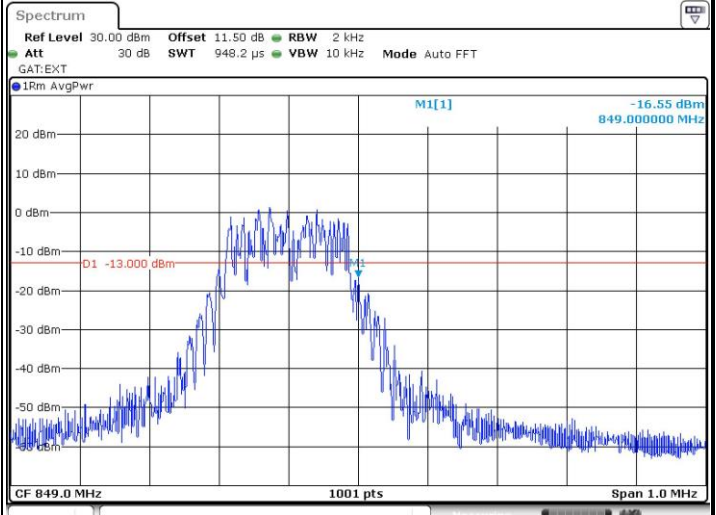
Date: 13.APR.2018 11:18:01

Lowest Band Edge / Full T

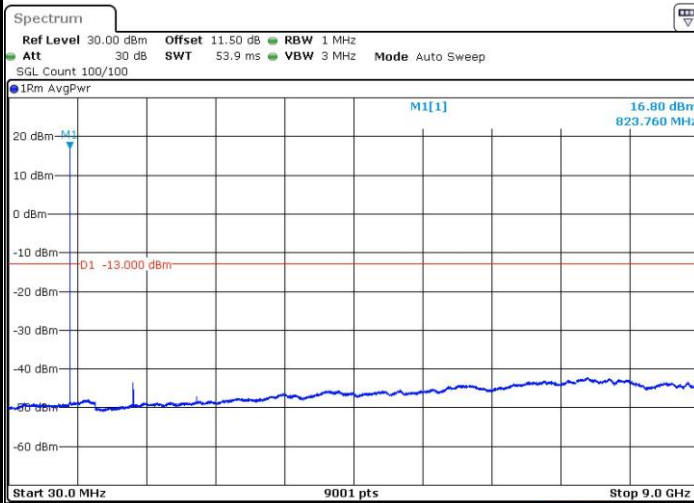


Date: 13.APR.2018 10:26:27

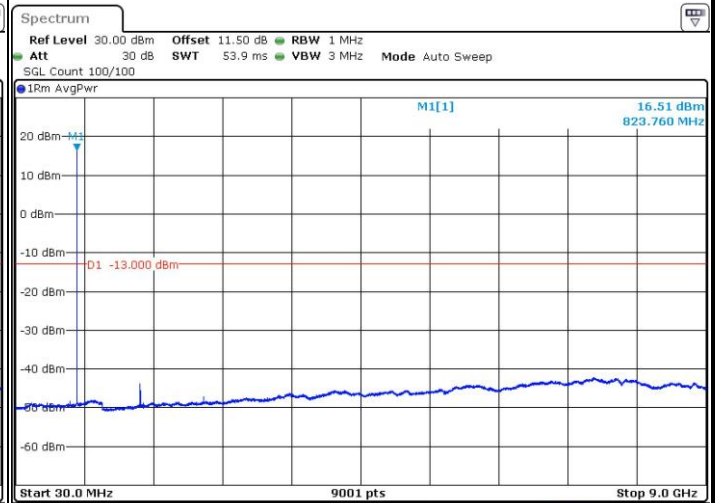
Lowest Band Edge / Full T



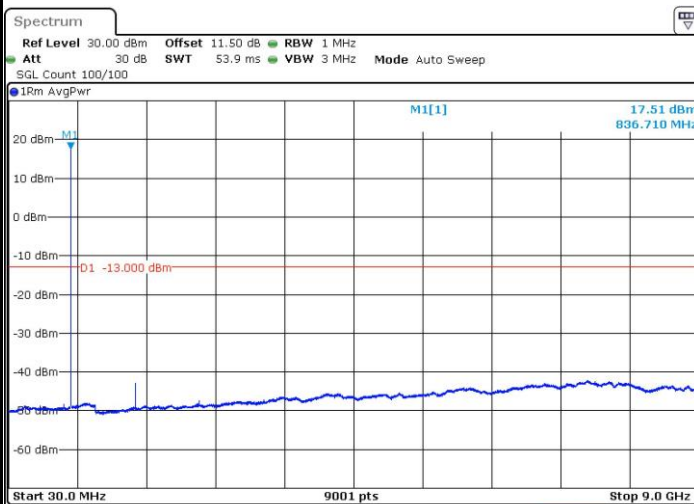
Date: 13.APR.2018 11:17:10

**Conducted Spurious Emission****LTE NB1 Band 26-22H / 3.75kHz****Lowest Channel / BPSK**

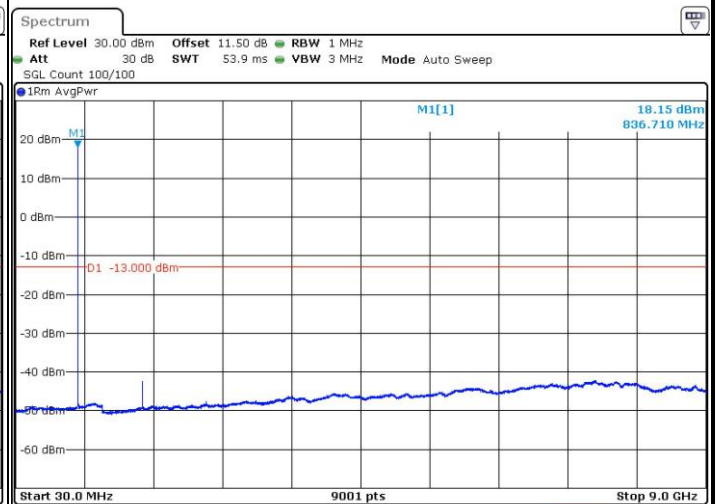
Date: 4.APR.2018 06:13:22

Lowest Channel / QPSK

Date: 4.APR.2018 06:14:12

Middle Channel / BPSK

Date: 4.APR.2018 06:20:25

Middle Channel / QPSK

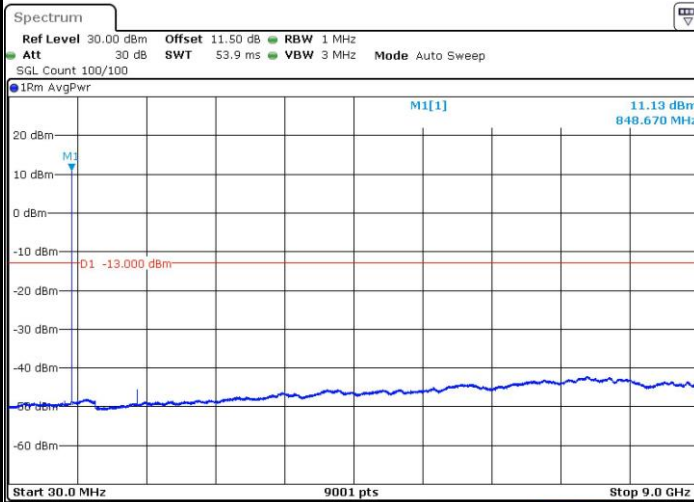
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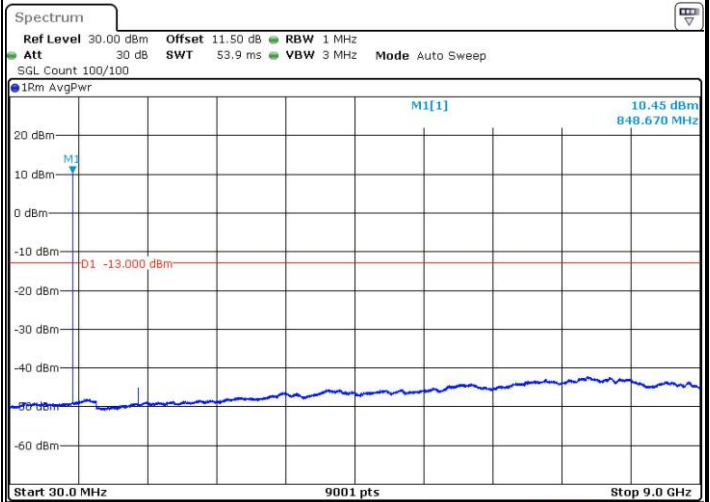
LTE NB1 Band 26-22H / 3.75kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 4 APR 2018 06:26:51

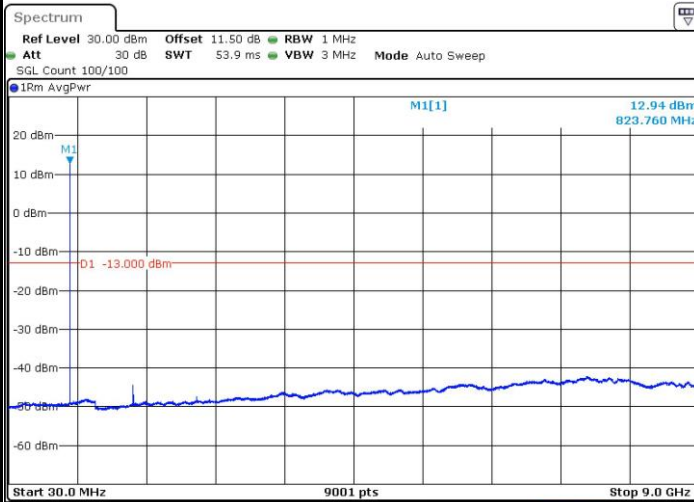


Date: 4 APR 2018 06:29:18



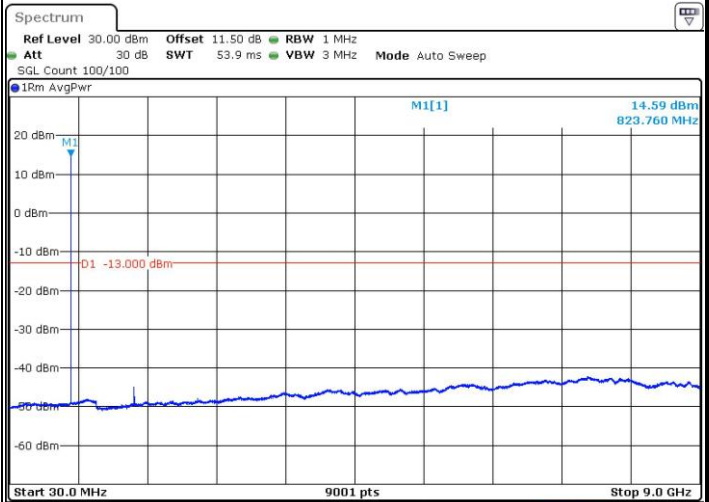
LTE NB1 Band 26-22H / 15kHz

Lowest Channel / BPSK



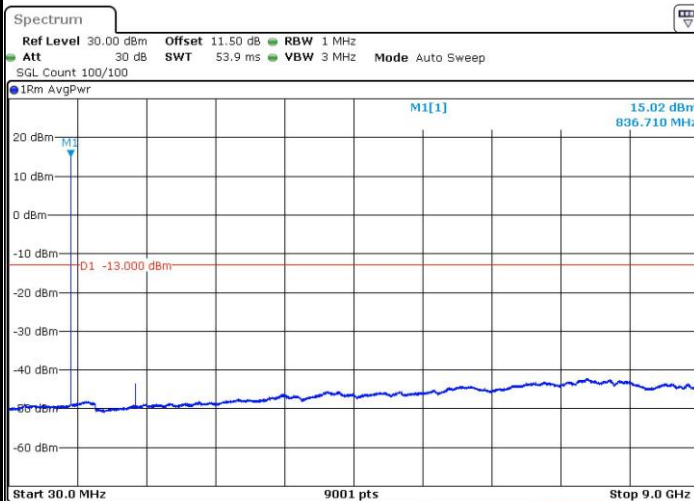
Date: 4 APR 2018 06:43:22

Lowest Channel / QPSK



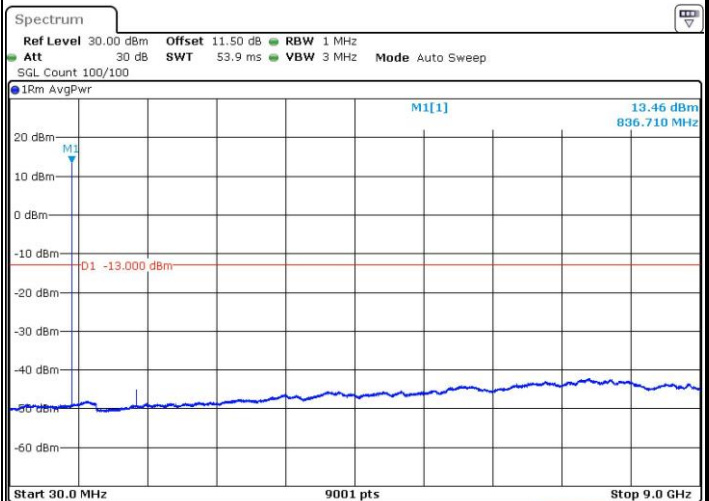
Date: 4 APR 2018 06:44:44

Middle Channel / BPSK



Date: 4 APR 2018 06:59:03

Middle Channel / QPSK



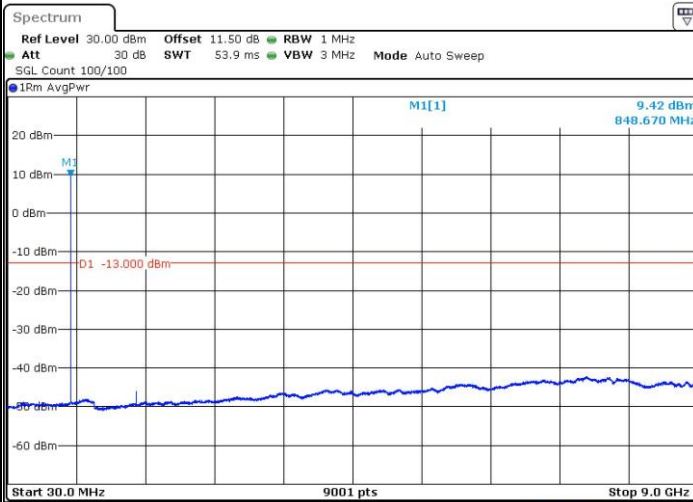
Date: 4 APR 2018 07:00:47



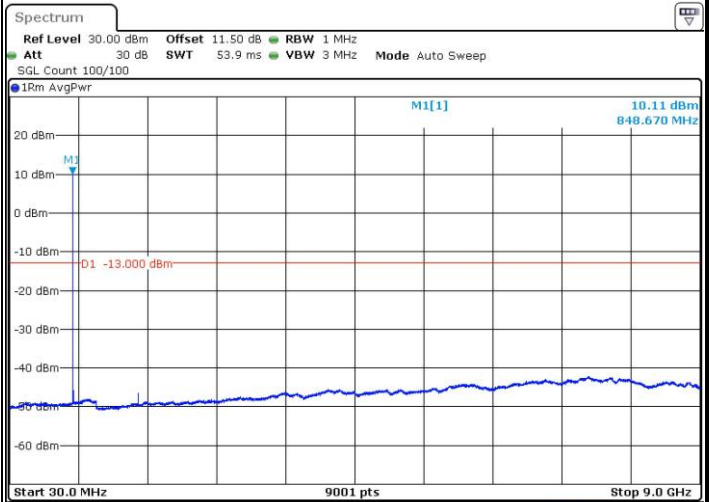
LTE NB1 Band 26-22H / 15kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 4.APR.2018 07:16:43



Date: 4.APR.2018 07:18:27

Frequency Stability

Test Conditions		LTE NB1 Band 26-22H (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	15kHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0049	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

LTE NB1 Band 26

LTE-NB1 Band 26 Sub-carrier Spacing: 3.75kHz									
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)
Lowest	1648	-49.26	-13	-36.26	-61.03	-51.02	0.98	4.89	H
	2472	-48.77	-13	-35.77	-65.85	-50.65	1.28	5.32	H
	3296	-55.73	-13	-42.73	-74.89	-59.14	1.54	7.10	H
									H
									H
									H
	1648	-36.93	-13	-23.93	-49.15	-38.69	0.98	4.89	V
	2472	-42.93	-13	-29.93	-60.44	-44.81	1.28	5.32	V
	3296	-47.66	-13	-34.66	-67.18	-51.07	1.54	7.10	V
									V
									V
									V
Middle	1672	-41.58	-13	-28.58	-53.65	-43.26	0.99	4.82	H
	2512	-43.88	-13	-30.88	-61.06	-45.85	1.29	5.41	H
	3344	-46.24	-13	-33.24	-65.63	-49.85	1.56	7.31	H
									H
									H
									H
	1672	-41.98	-13	-28.98	-54.55	-43.66	0.99	4.82	V
	2512	-43.64	-13	-30.64	-61.29	-45.61	1.29	5.41	V
	3344	-46.47	-13	-33.47	-66.03	-50.08	1.56	7.31	V
									V
									V
									V



Highest	1696	-47.63	-13	-34.63	-59.91	-49.23	1.00	4.75	H
	2544	-50.94	-13	-37.94	-68.21	-52.92	1.30	5.44	H
	3400	-56.88	-13	-43.88	-76.5	-60.72	1.57	7.56	H
									H
									H
									H
									H
	1696	-34.44	-13	-21.44	-47.02	-36.04	1.00	4.75	V
	2544	-47.33	-13	-34.33	-64.96	-49.31	1.30	5.44	V
	3400	-48.93	-13	-35.93	-68.68	-52.77	1.57	7.56	V
									V
									V
									V
									V

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



LTE-NB1 Band 26 Sub-carrier Spacing: 15kHz									
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)
Lowest	1648	-49.93	-13	-36.93	-61.94	-51.69	0.98	4.89	H
	2472	-50.24	-13	-37.24	-67.55	-52.12	1.28	5.32	H
	3296	-57.97	-13	-44.97	-77.37	-61.38	1.54	7.10	H
									H
									H
									H
									H
	1648	-35.72	-13	-22.72	-48.2	-37.48	0.98	4.89	V
	2472	-44.44	-13	-31.44	-62.19	-46.32	1.28	5.32	V
	3296	-52.77	-13	-39.77	-72.5	-56.18	1.54	7.10	V
									V
									V
									V
									V
Middle	1672	-48.74	-13	-35.74	-61.04	-50.42	0.99	4.82	H
	2512	-49.97	-13	-36.97	-67.38	-51.94	1.29	5.41	H
	3344	-56.09	-13	-43.09	-75.74	-59.7	1.56	7.31	H
									H
									H
									H
									H
	1672	-34.68	-13	-21.68	-47.44	-36.36	0.99	4.82	V
	2512	-47.23	-13	-34.23	-65.1	-49.2	1.29	5.41	V
	3344	-48.52	-13	-35.52	-68.38	-52.13	1.56	7.31	V
									V
									V
									V
									V



Highest	1696	-49.39	-13	-36.39	-61.85	-50.99	1.00	4.75	H
	2544	-50.88	-13	-37.88	-68.32	-52.86	1.30	5.44	H
	3400	-53.47	-13	-40.47	-73.38	-57.31	1.57	7.56	H
									H
									H
									H
									H
	1696	-34.32	-13	-21.32	-47.22	-35.92	1.00	4.75	V
	2544	-45.80	-13	-32.80	-63.74	-47.78	1.30	5.44	V
	3400	-44.95	-13	-31.95	-64.95	-48.79	1.57	7.56	V
									V
									V
									V
									V

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

**LTE NB1 Band 2**

LTE-NB1 Band 2 Sub-carrier Spacing: 3.75kHz									
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)
Lowest	3702	-45.31	-13	-32.31	-65.47	-51.88	1.67	8.24	H
	5550	-54.34	-13	-41.34	-79.05	-61.41	2.65	9.72	H
	7398	-51.89	-13	-38.89	-78.31	-61.02	2.46	11.60	H
	9252	-48.18	-13	-35.18	-78.07	-58.24	2.54	12.60	H
									H
									H
									H
	3702	-41.44	-13	-28.44	-61.69	-48.01	1.67	8.24	V
	5550	-50.26	-13	-37.26	-74.88	-57.33	2.65	9.72	V
	7398	-45.89	-13	-32.89	-72.51	-55.02	2.46	11.60	V
	9252	-43.55	-13	-30.55	-73.81	-53.61	2.54	12.60	V
									V
									V
									V
Middle	3762	-45.39	-13	-32.39	-65.45	-52.02	1.69	8.31	H
	5640	-55.06	-13	-42.06	-80.05	-62.11	2.71	9.76	H
	7518	-48.66	-13	-35.66	-75.38	-58.05	2.42	11.81	H
	9399	-47.29	-13	-34.29	-77.67	-57.26	2.57	12.54	H
									H
									H
									H
	3762	-50.38	-13	-37.38	-60.59	-57.01	1.69	8.31	V
	5640	-53.38	-13	-40.38	-78.24	-60.43	2.71	9.76	V
	7518	-40.63	-13	-27.63	-67.56	-50.02	2.42	11.81	V
	9399	-44.02	-13	-31.02	-74.8	-53.99	2.57	12.54	V
									V
									V
									V



Highest	3822	-47.54	-13	-34.54	-67.74	-54.22	1.71	8.39	H
	5730	-54.73	-13	-41.73	-79.83	-61.76	2.76	9.79	H
	7638	-47.71	-13	-34.71	-74.78	-57.21	2.38	11.88	H
									H
									H
									H
									H
	3822	-42.01	-13	-29.01	-62.3	-48.69	1.71	8.39	V
	5730	-52.12	-13	-39.12	-77.21	-59.15	2.76	9.79	V
	7638	-41.86	-13	-28.86	-69.1	-51.36	2.38	11.88	V
									V
									V
									V
									V

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



LTE-NB1 Band 2 Sub-carrier Spacing: 15kHz									
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)
Lowest	3702	-44.76	-13	-31.76	-64.84	-51.33	1.67	8.24	H
	5550	-54.68	-13	-41.68	-79.27	-61.75	2.65	9.72	H
	7398	-46.94	-13	-33.94	-73.45	-56.07	2.46	11.60	H
	9252	-48.88	-13	-35.88	-78.54	-58.94	2.54	12.60	H
									H
									H
									H
	3702	-39.97	-13	-26.97	-60.08	-46.54	1.67	8.24	V
	5550	-49.96	-13	-36.96	-74.6	-57.03	2.65	9.72	V
	7398	-41.05	-13	-28.05	-67.72	-50.18	2.46	11.60	V
	9252	-42.55	-13	-29.55	-72.64	-52.61	2.54	12.60	V
									V
									V
									V
Middle	3762	-45.75	-13	-32.75	-65.75	-52.38	1.69	8.31	H
	5640	-55.48	-13	-42.48	-80.32	-62.53	2.71	9.76	H
	7518	-44.69	-13	-31.69	-71.22	-54.08	2.42	11.81	H
	9399	-47.64	-13	-34.64	-77.79	-57.61	2.57	12.54	H
									H
									H
									H
	3762	-39.54	-13	-26.54	-59.57	-46.17	1.69	8.31	V
	5640	-53.36	-13	-40.36	-78.14	-60.41	2.71	9.76	V
	7518	-38.52	-13	-25.52	-65.34	-47.91	2.42	11.81	V
	9399	-43.66	-13	-30.66	-74.24	-53.63	2.57	12.54	V
									V
									V
									V



Highest	3822	-46.74	-13	-33.74	-66.8	-53.42	1.71	8.39	H
	5730	-54.56	-13	-41.56	-79.62	-61.59	2.76	9.79	H
	7638	-44.22	-13	-31.22	-71.05	-53.72	2.38	11.88	H
	9546	-48.67	-13	-35.67	-79.19	-58.54	2.60	12.47	H
									H
									H
									H
	3822	-41.64	-13	-28.64	-61.71	-48.32	1.71	8.39	V
	5730	-51.85	-13	-38.85	-76.89	-58.88	2.76	9.79	V
	7638	-37.34	-13	-24.34	-64.46	-46.84	2.38	11.88	V
	9546	-43.17	-13	-30.17	-74.04	-53.04	2.60	12.47	V
									V
									V
									V

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

**LTE NB1 Band 12**

LTE-NB1 Band 12 Sub-carrier Spacing: 3.75kHz									
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)
Lowest	1400	-54.56	-13.00	-41.56	-64.75	-56.22	0.87	4.68	H
	2096	-60.79	-13.00	-47.79	-76.21	-61.66	1.16	4.19	H
	2800	-59.11	-13.00	-46.11	-76.63	-61.22	1.38	5.64	H
									H
									H
									H
									H
	1400	-45.03	-13.00	-32.03	-55.63	-46.69	0.87	4.68	V
	2096	-54.84	-13.00	-41.84	-70.51	-55.71	1.16	4.19	V
	2800	-53.41	-13.00	-40.41	-71.64	-55.52	1.38	5.64	V
									V
									V
									V
									V
Middle	1416	-39.58	-13.00	-26.58	-49.66	-41.33	0.87	4.78	H
	2120	-56.97	-13.00	-43.97	-72.55	-57.91	1.17	4.26	H
	2832	-55.21	-13.00	-42.21	-72.72	-57.33	1.39	5.67	H
	3536	-45.74	-13.00	-32.74	-65.94	-50.02	1.62	8.04	H
									H
									H
									H
	1408	-38.98	-13.00	-25.98	-49.58	-40.69	0.87	4.73	V
	2112	-56.63	-13.00	-43.63	-72.60	-57.55	1.17	4.24	V
	3512	-54.89	-13.00	-41.89	-73.28	-59.15	1.61	8.01	V
	3536	-46.74	-13.00	-33.74	-66.79	-51.02	1.62	8.04	V
									V
									V
									V



Highest	1432	-46.26	-13.00	-33.26	-56.46	-48.11	0.88	4.88	H
	2152	-60.01	-13.00	-47.01	-75.65	-61.03	1.18	4.36	H
	2864	-59.54	-13.00	-46.54	-77.21	-61.68	1.40	5.69	H
	3584	-54.12	-13.00	-41.12	-74.31	-58.44	1.63	8.10	H
									H
									H
									H
	1432	-35.26	-13.00	-22.26	-45.98	-37.11	0.88	4.88	V
	2152	-57.31	-13.00	-44.31	-73.29	-58.33	1.18	4.36	V
	2864	-55.88	-13.00	-42.88	-74.42	-58.02	1.40	5.69	V
	3584	-48.01	-13.00	-35.01	-68.14	-52.33	1.63	8.10	V
									V
									V
									V

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



LTE-NB1 Band 12 Sub-carrier Spacing: 15kHz									
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)
Lowest	1400	-55.35	-13.00	-42.35	-65.39	-57.01	0.87	4.68	H
	2096	-61.11	-13.00	-48.11	-76.60	-61.98	1.16	4.19	H
	2800	-59.22	-13.00	-46.22	-76.88	-61.33	1.38	5.64	H
	3496	-56.54	-13.00	-43.54	-76.79	-60.77	1.60	7.98	H
									H
									H
									H
	1400	-45.48	-13.00	-32.48	-56.05	-47.14	0.87	4.68	V
	2096	-55.91	-13.00	-42.91	-71.63	-56.78	1.16	4.19	V
	2800	-53.45	-13.00	-40.45	-71.86	-55.56	1.38	5.64	V
	3496	-47.78	-13.00	-34.78	-67.75	-52.01	1.60	7.98	V
									V
									V
									V
Middle	1416	-40.51	-13.00	-27.51	-50.65	-42.26	0.87	4.78	H
	2120	-57.08	-13.00	-44.08	-72.65	-58.02	1.17	4.26	H
	3536	-47.39	-13.00	-34.39	-67.53	-51.67	1.62	8.04	H
									H
									H
									H
									H
	1408	-40.35	-13.00	-27.35	-50.90	-42.06	0.87	4.73	V
	2112	-57.31	-13.00	-44.31	-73.13	-58.23	1.17	4.24	V
	3512	-47.51	-13.00	-34.51	-67.59	-51.77	1.61	8.01	V
									V
									V
									V
									V



Highest	1432	-47.84	-13.00	-34.84	-58.09	-49.69	0.88	4.88	H
	2152	-60.67	-13.00	-47.67	-76.28	-61.69	1.18	4.36	H
	3576	-55.36	-13.00	-42.36	-75.53	-59.67	1.63	8.09	H
									H
									H
									H
									H
	1432	-36.84	-13.00	-23.84	-47.57	-38.69	0.88	4.88	V
	2152	-58.98	-13.00	-45.98	-74.28	-60.00	1.18	4.36	V
	3576	-48.71	-13.00	-35.71	-68.77	-53.02	1.63	8.09	V
									V
									V
									V
									V

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

**LTE NB1 Band 13**

LTE-NB1 Band 13 Sub-carrier Spacing: 3.75kHz									
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)
Lowest	1552	-61.57	-13	-48.57	-72.69	-63.64	0.94	5.15	H
	2336	-55.04	-13	-42.04	-71.73	-56.56	1.24	4.91	H
	3112	-58.74	-13	-45.74	-77.21	-61.4	1.48	6.29	H
	3888	-52.11	-13	-39.11	-72.37	-56.695	1.73	8.47	H
									H
									H
									H
	1552	-51.81	-13	-38.81	-63.45	-53.88	0.94	5.15	V
	2336	-46.32	-13	-33.32	-63.42	-47.84	1.24	4.91	V
	3112	-51.54	-13	-38.54	-70.77	-54.2	1.48	6.29	V
	3888	-43.97	-13	-30.97	-64.31	-48.56	1.73	8.47	V
									V
									V
									V
Middle	1568	-50.71	-42.15	-8.56	-61.98	-52.73	0.94	5.11	H
	2344	-45.78	-13	-32.78	-62.46	-47.32	1.24	4.93	H
	3128	-52.30	-13	-39.30	-70.85	-55.03	1.49	6.36	H
	3912	-47.77	-13	-34.77	-67.99	-52.38	1.73	8.49	H
									H
									H
									H
	1568	-50.19	-42.15	-8.04	-61.96	-52.21	0.94	5.11	V
	2344	-45.07	-13	-32.07	-62.16	-46.61	1.24	4.93	V
	3128	-52.23	-13	-39.23	-71.5	-54.96	1.49	6.36	V
	3912	-47.45	-13	-34.45	-67.8	-52.06	1.73	8.49	V
									V
									V
									V



Highest	1576	-59.22	-42.15	-17.07	-70.64	-61.21	0.95	5.09	H
	2360	-52.84	-13	-39.84	-69.61	-54.42	1.25	4.98	H
	3152	-58.28	-13	-45.28	-77	-61.1	1.50	6.47	H
	3936	-56.39	-13	-43.39	-76.59	-61.02	1.74	8.52	H
									H
									H
									H
	1576	-49.12	-42.15	-6.97	-61.04	-51.11	0.95	5.09	V
	2360	-44.75	-13	-31.75	-61.93	-46.33	1.25	4.98	V
	3152	-52.23	-13	-39.23	-71.59	-55.05	1.50	6.47	V
	3936	-49.66	-13	-36.66	-70	-54.29	1.74	8.52	V
									V
									V
									V

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



LTE-NB1 Band 13 Sub-carrier Spacing: 15kHz									
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)
Lowest	1552	-61.61	-13	-48.61	-72.52	-63.68	0.94	5.15	H
	2336	-55.49	-13	-42.49	-71.81	-57.01	1.24	4.91	H
	3112	-59.03	-13	-46.03	-77.34	-61.69	1.48	6.29	H
	3888	-52.99	-13	-39.99	-73.12	-57.58	1.73	8.47	H
									H
									H
									H
	1552	-52.39	-13	-39.39	-63.78	-54.46	0.94	5.15	V
	2336	-48.36	-13	-35.36	-65.2	-49.88	1.24	4.91	V
	3112	-52.03	-13	-39.03	-71.17	-54.69	1.48	6.29	V
	3888	-43.74	-13	-30.74	-63.99	-48.33	1.73	8.47	V
									V
									V
									V
Middle	1568	-60.49	-42.15	-18.34	-71.66	-62.51	0.94	5.11	H
	2344	-53.51	-13	-40.51	-70.13	-55.05	1.24	4.93	H
	3128	-58.86	-13	-45.86	-77.28	-61.59	1.49	6.36	H
	3912	-55.88	-13	-42.88	-76	-60.49	1.73	8.49	H
									H
									H
									H
	1568	-50.64	-42.15	-8.49	-62.17	-52.66	0.94	5.11	V
	2344	-47.23	-13	-34.23	-64.15	-48.77	1.24	4.93	V
	3128	-53.29	-13	-40.29	-72.33	-56.02	1.49	6.36	V
	3912	-48.16	-13	-35.16	-68.46	-52.77	1.73	8.49	V
									V
									V
									V



Highest	1576	-59.94	-42.15	-17.79	-71.35	-61.93	0.95	5.09	H
	2360	-53.64	-13	-40.64	-70.35	-55.22	1.25	4.98	H
	3152	-58.87	-13	-45.87	-77.34	-61.69	1.50	6.47	H
	3936	-57.39	-13	-44.39	-77.39	-62.02	1.74	8.52	H
									H
									H
									H
	1576	-49.45	-42.15	-7.30	-61.25	-51.44	0.95	5.09	V
	2360	-45.75	-13	-32.75	-62.83	-47.33	1.25	4.98	V
	3152	-53.47	-13	-40.47	-72.69	-56.29	1.50	6.47	V
	3936	-50.06	-13	-37.06	-70.17	-54.69	1.74	8.52	V
									V
									V
									V

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