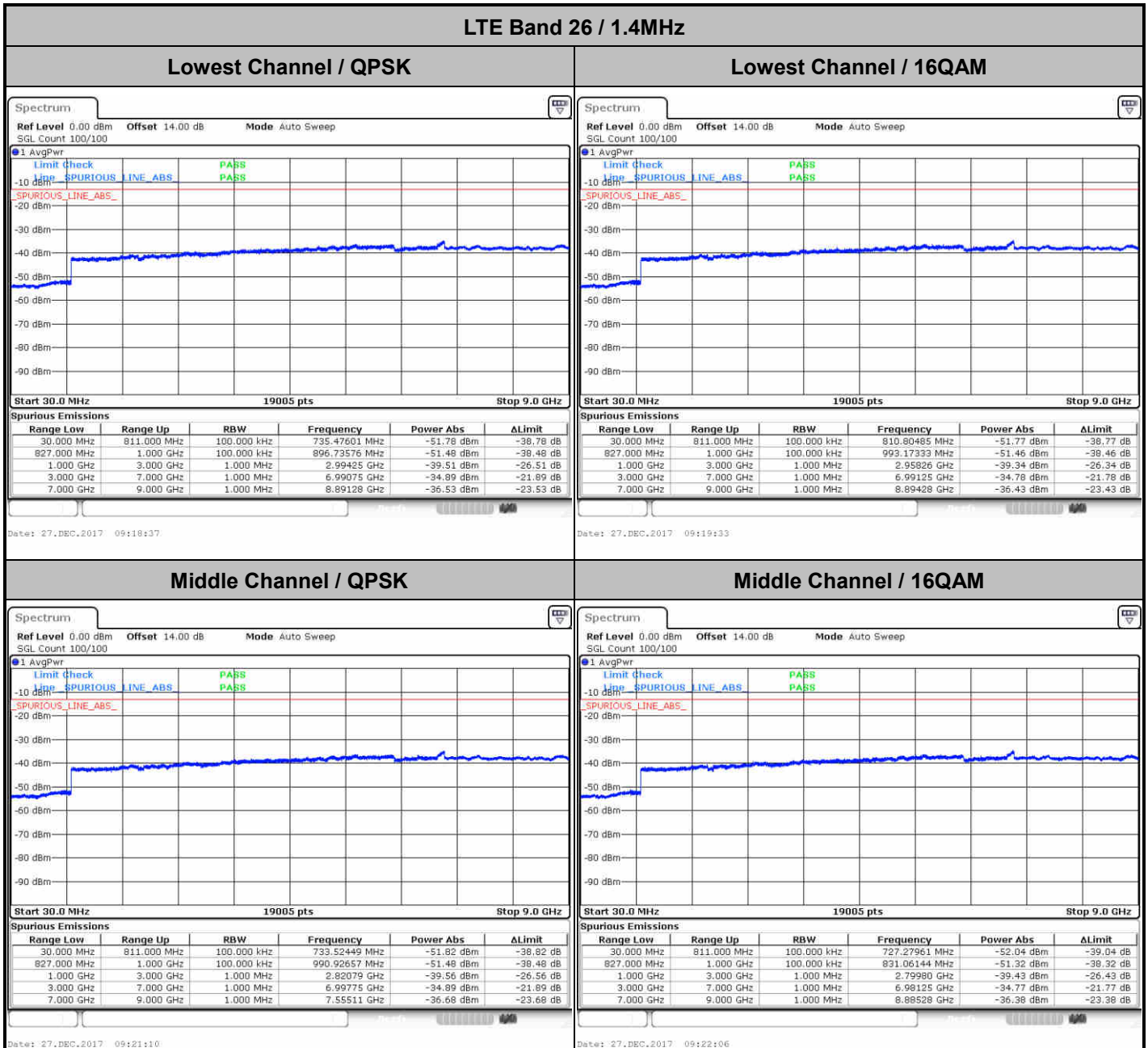
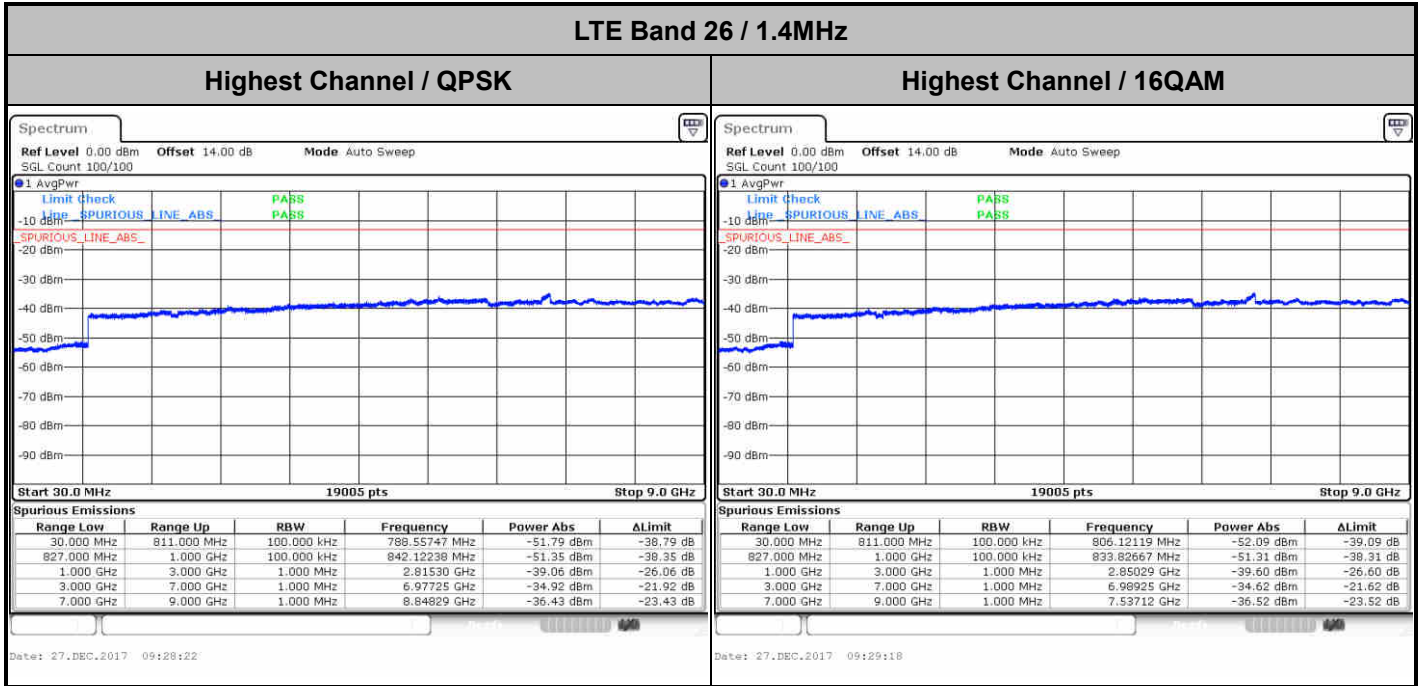




# Conducted Spurious Emission



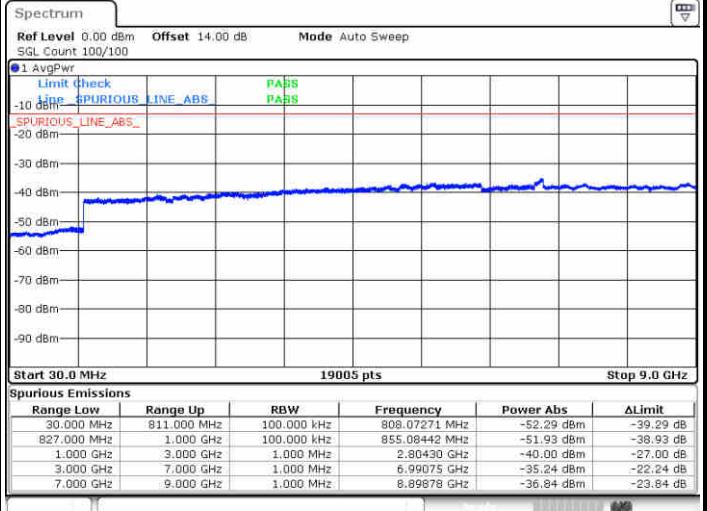
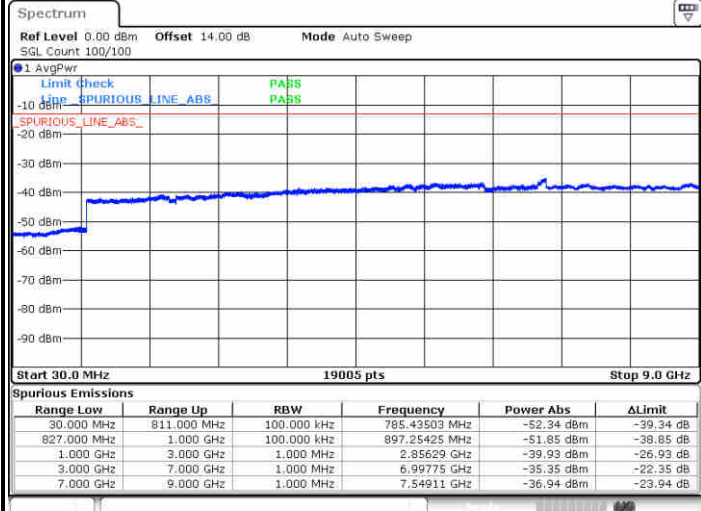




LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

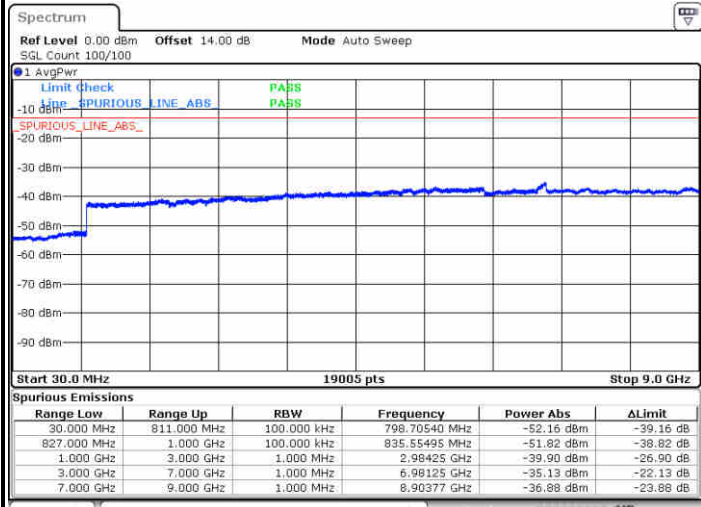
Middle Channel / 64QAM



Date: 2.JAN.2018 14:00:44

Date: 2.JAN.2018 14:02:00

Highest Channel / 64QAM



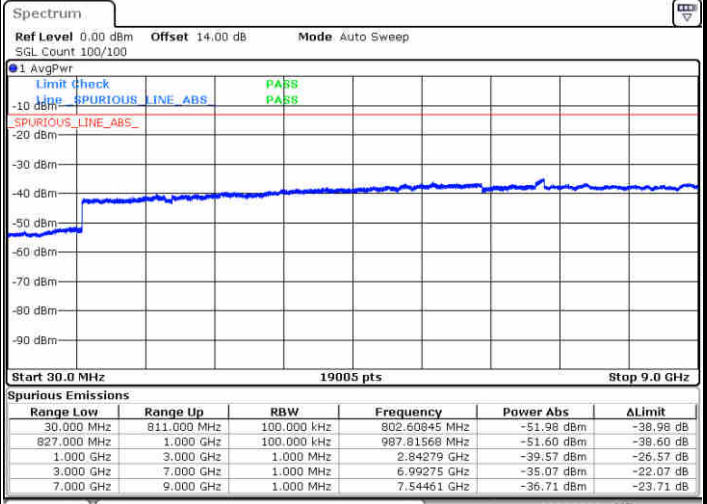
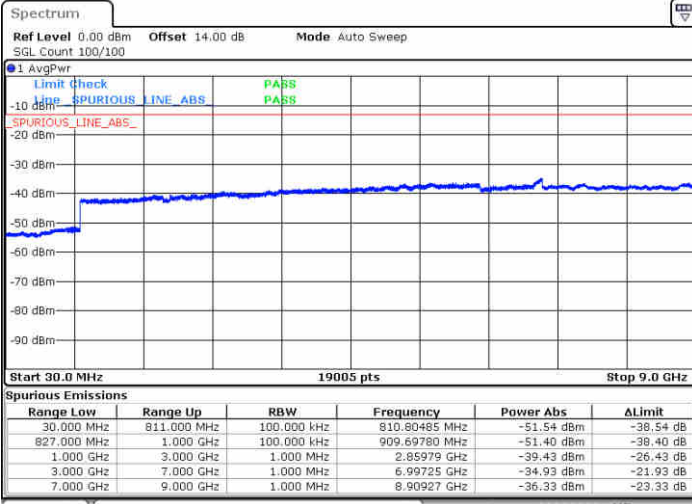
Date: 2.JAN.2018 14:05:05



LTE Band 26 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

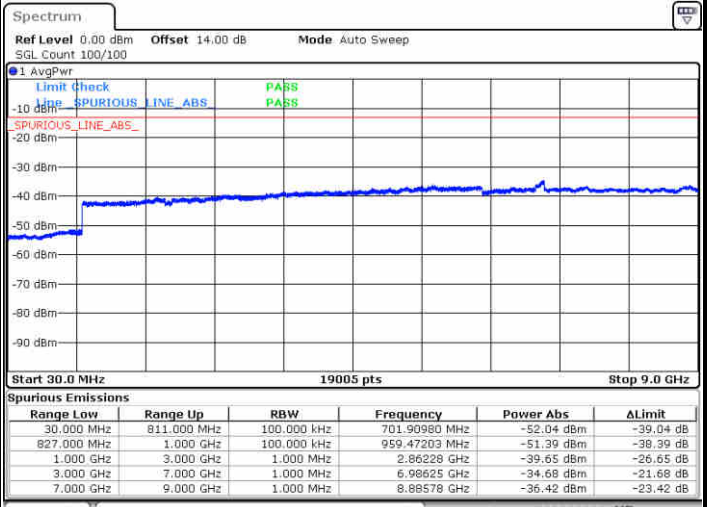
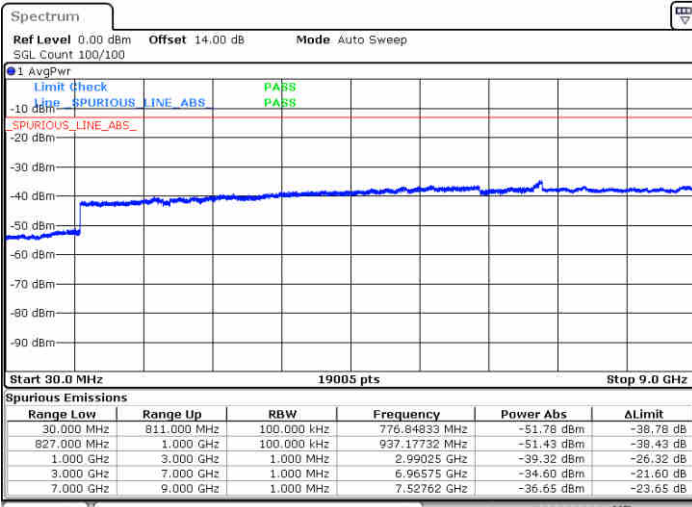


Date: 27.DEC.2017 09:46:29

Date: 27.DEC.2017 09:47:25

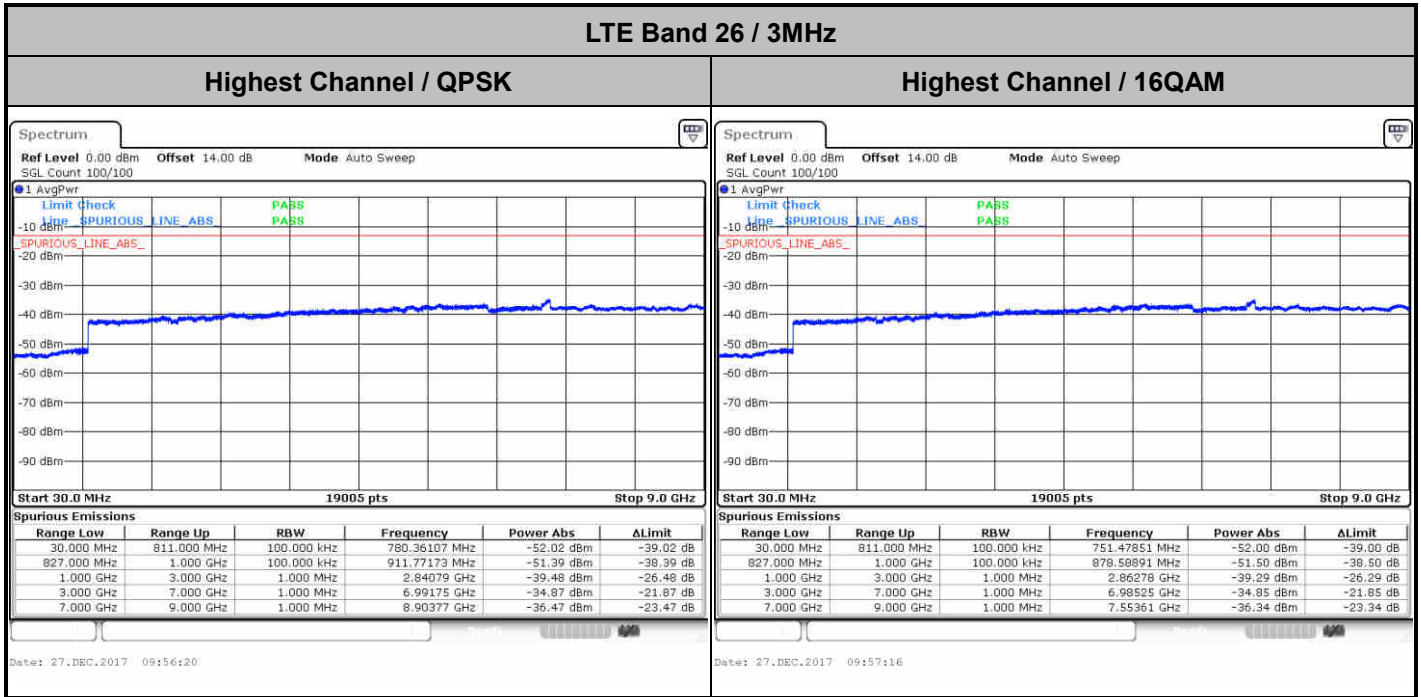
Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27.DEC.2017 09:49:03

Date: 27.DEC.2017 09:49:59

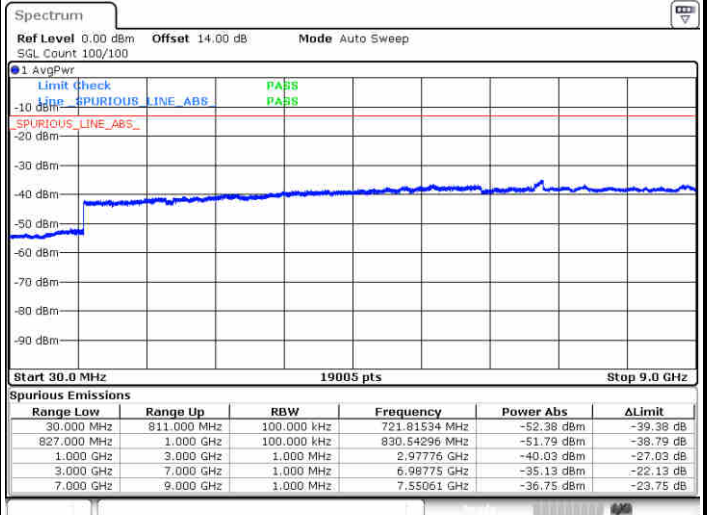
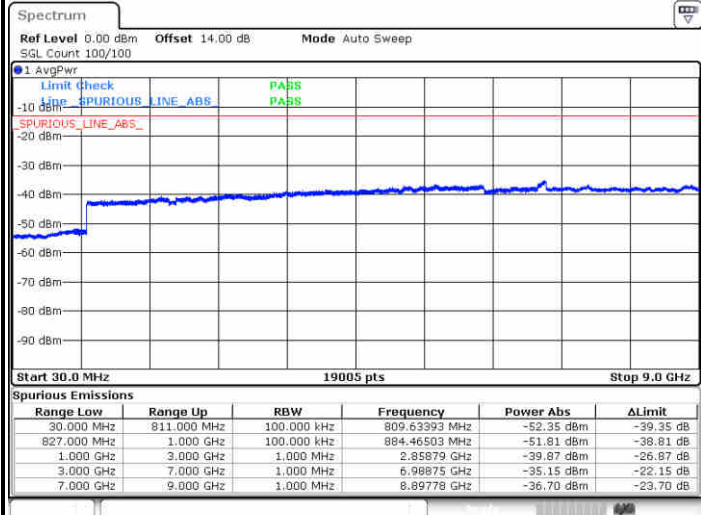




LTE Band 26 / 3MHz

Lowest Channel / 64QAM

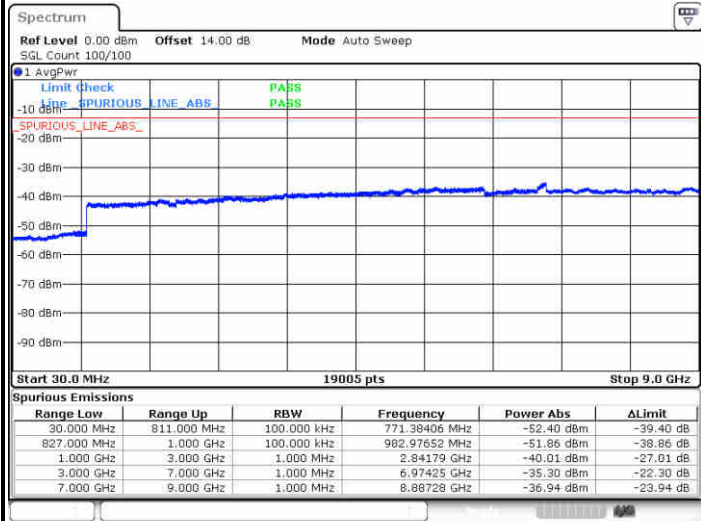
Middle Channel / 64QAM



Date: 2. JAN. 2018 14:10:12

Date: 2. JAN. 2018 14:10:28

Highest Channel / 64QAM

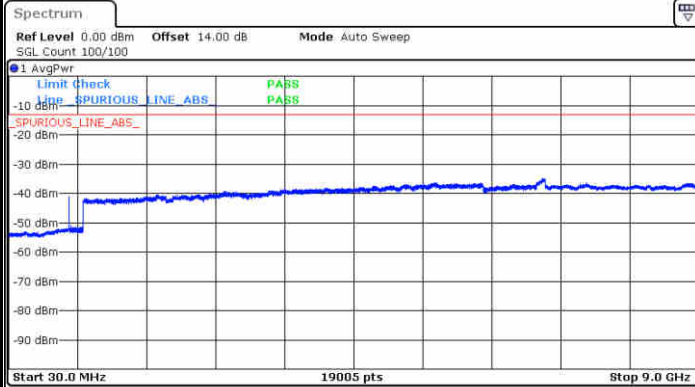


Date: 2. JAN. 2018 14:14:05



LTE Band 26 / 5MHz

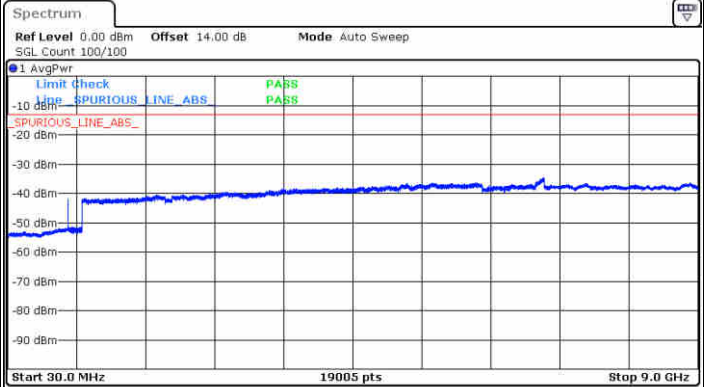
Lowest Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.02424 MHz	-41.24 dBm	-28.24 dB
827.000 MHz	1.000 GHz	100.000 kHz	834.34515 MHz	-51.08 dBm	-39.08 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.84279 GHz	-39.37 dBm	-26.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-35.00 dBm	-22.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53512 GHz	-36.53 dBm	-23.53 dB

Date: 27.DEC.2017 10:15:02

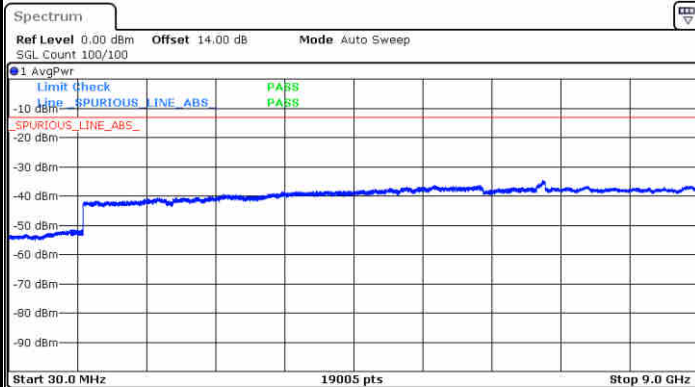
Lowest Channel / 16QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.02424 MHz	-42.07 dBm	-29.07 dB
827.000 MHz	1.000 GHz	100.000 kHz	890.16833 MHz	-51.53 dBm	-39.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.85679 GHz	-39.64 dBm	-26.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98575 GHz	-34.70 dBm	-21.70 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90077 GHz	-36.51 dBm	-23.51 dB

Date: 27.DEC.2017 10:15:59

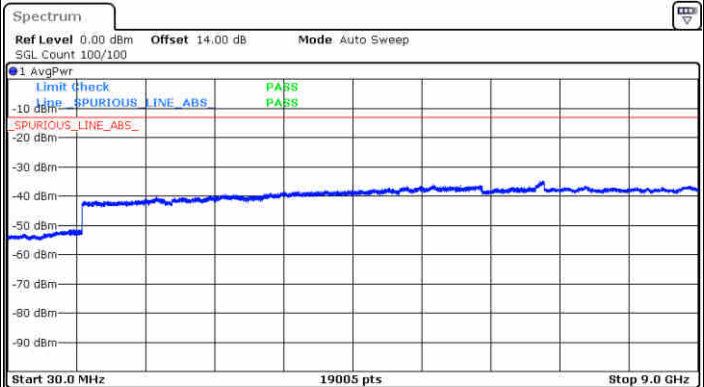
Middle Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	781.14168 MHz	-51.90 dBm	-39.90 dB
827.000 MHz	1.000 GHz	100.000 kHz	931.30120 MHz	-51.28 dBm	-39.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.82179 GHz	-39.53 dBm	-26.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97275 GHz	-34.63 dBm	-21.63 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55111 GHz	-36.66 dBm	-23.66 dB

Date: 27.DEC.2017 10:17:36

Middle Channel / 16QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	749.13668 MHz	-52.00 dBm	-39.00 dB
827.000 MHz	1.000 GHz	100.000 kHz	877.37912 MHz	-51.45 dBm	-39.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.85179 GHz	-39.45 dBm	-26.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98625 GHz	-34.93 dBm	-21.93 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88528 GHz	-36.58 dBm	-23.58 dB

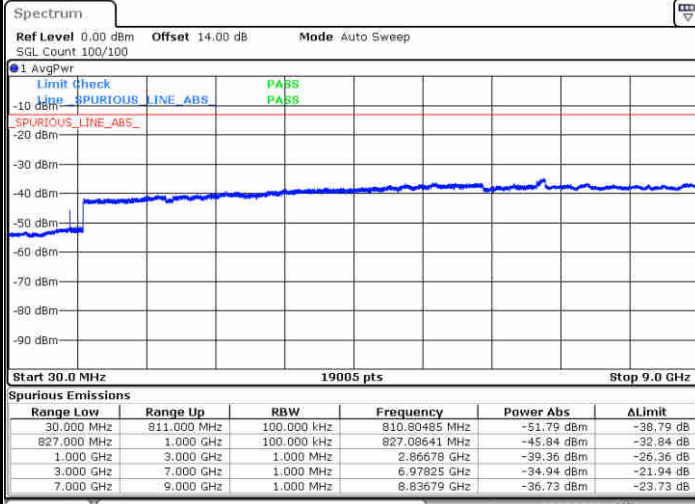
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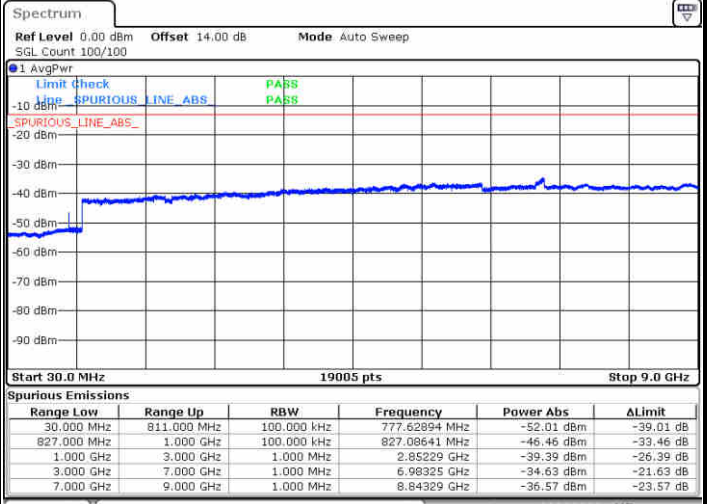
LTE Band 26 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.DEC.2017 10:24:49



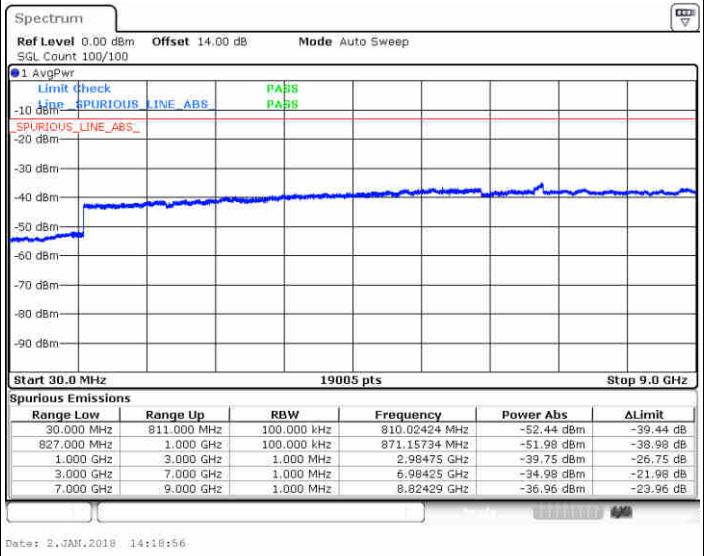
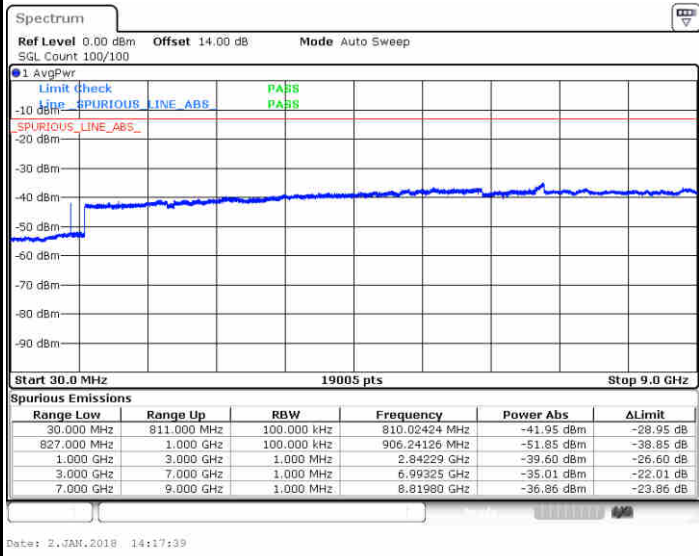
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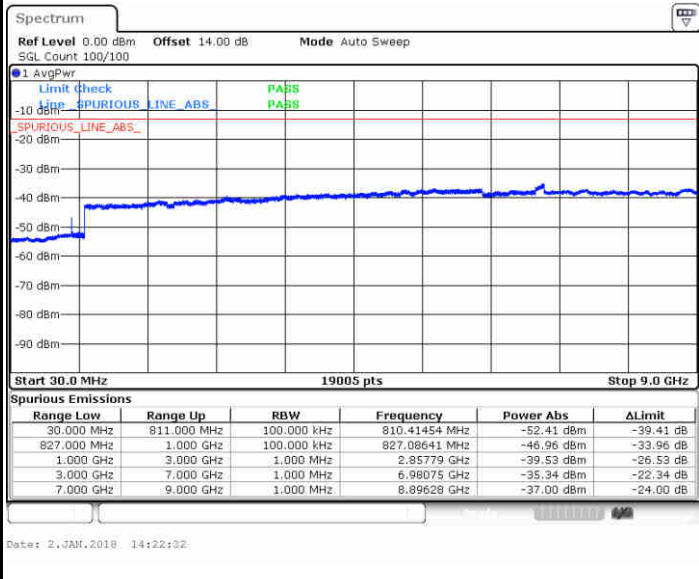
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



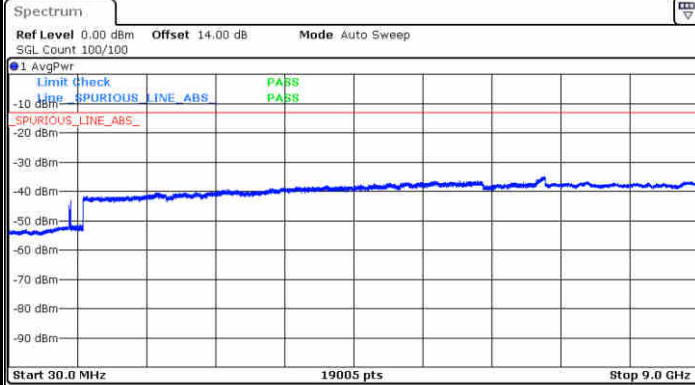
Highest Channel / 64QAM





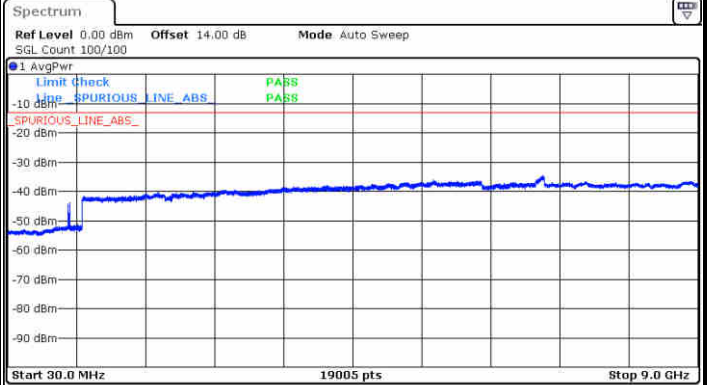
LTE Band 26 / 10MHz

Middle Channel / QPSK



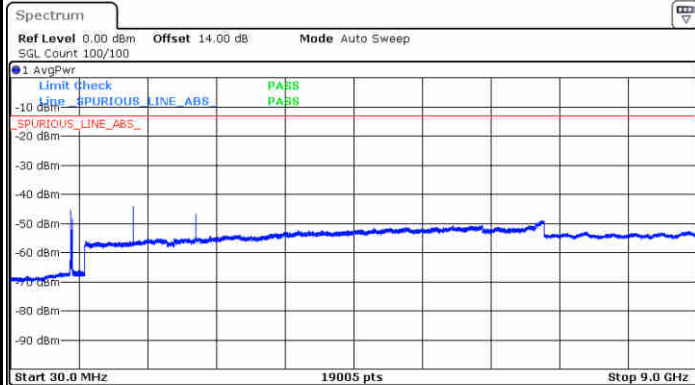
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Middle Channel / 16QAM



Date: 27.DEC.2017 10:29:46

Middle Channel / 64QAM



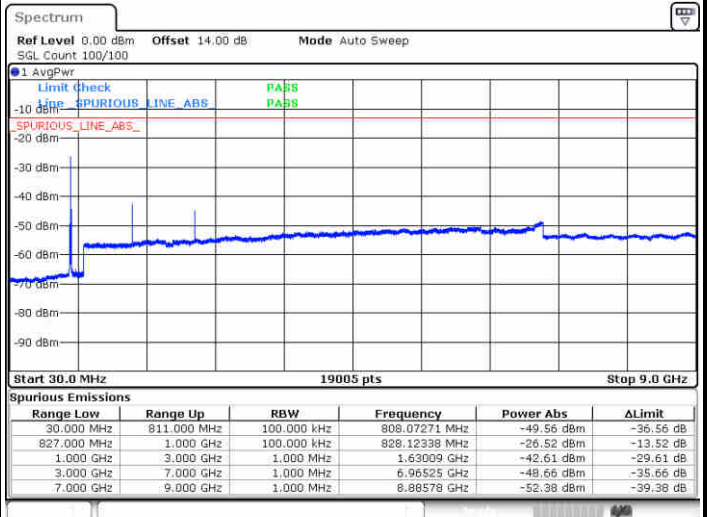
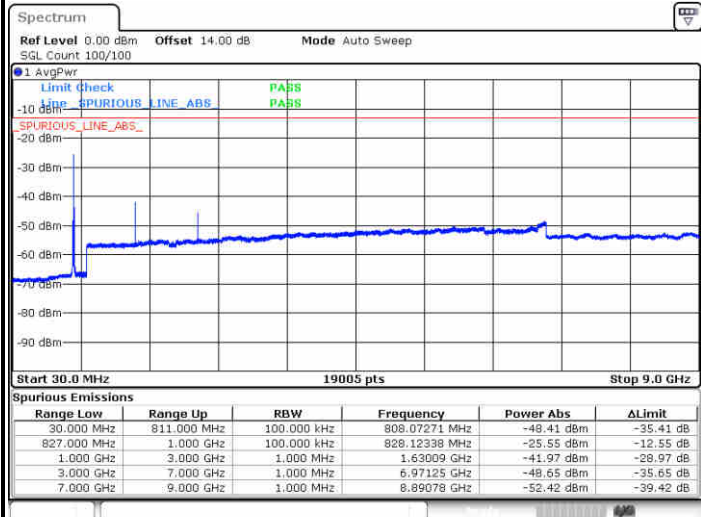
Date: 2.JAN.2018 14:23:48



LTE Band 26 / 15MHz

Lowest Channel / QPSK

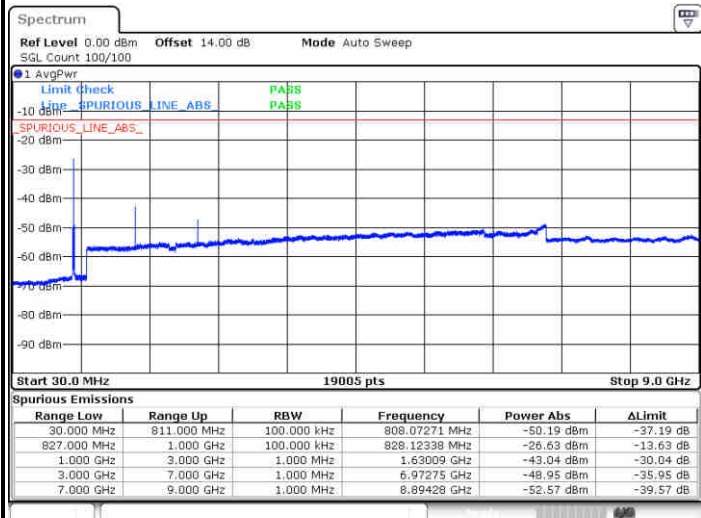
Lowest Channel / 16QAM



Date: 27.DEC.2017 14:02:48

Date: 27.DEC.2017 14:03:45

Lowest Channel / 64QAM



Date: 2.JAN.2018 14:30:26



Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

LTE Band 26 / 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)
Lowest	1628.14	-68.90	-13	-55.90	-70.61	-73.30	2.76	9.31	H
	2442.21	-56.59	-13	-43.59	-62.65	-62.45	2.45	10.46	H
	3256.28	-69.58	-13	-56.58	-77.58	-75.28	4.58	12.43	H
	1628.14	-73.26	-13	-60.26	-75.10	-77.66	2.76	9.31	V
	2442.21	-61.62	-13	-48.62	-67.57	-67.48	2.45	10.46	V
	3256.28	-69.46	-13	-56.46	-77.49	-75.16	4.58	12.43	V
Middle	1636.74	-73.01	-13	-60.01	-74.72	-77.32	2.88	9.34	H
	2455.11	-69.61	-13	-56.61	-75.67	-75.47	2.5	10.51	H
	3273.48	-69.40	-13	-56.40	-77.40	-75.12	4.63	12.50	H
	1636.74	-72.53	-13	-59.53	-74.37	-76.84	2.88	9.34	V
	2455.11	-67.63	-13	-54.63	-73.58	-73.49	2.50	10.51	V
	3273.48	-69.30	-13	-56.30	-77.33	-75.02	4.63	12.50	V
Highest	1645.34	-72.61	-13	-59.61	-74.32	-76.91	2.92	9.37	H
	2468.01	-57.78	-13	-44.78	-63.84	-63.56	2.63	10.56	H
	3290.68	-69.31	-13	-56.31	-77.31	-74.99	4.74	12.57	H
	1645.34	-72.25	-13	-59.25	-74.09	-76.55	2.92	9.37	V
	2468.01	-57.31	-13	-44.31	-63.26	-63.09	2.63	10.56	V
	3290.68	-69.42	-13	-56.42	-77.45	-75.10	4.74	12.57	V

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



LTE Band 26 / 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)
Lowest	1628.3	-73.61	-13	-60.61	-75.32	-78.01	2.76	9.31	H
	2442.45	-68.72	-13	-55.72	-74.78	-74.58	2.45	10.46	H
	3256.6	-69.49	-13	-56.49	-77.49	-75.19	4.58	12.43	H
	1628.3	-73.37	-13	-60.37	-75.21	-77.77	2.76	9.31	V
	2442.45	-68.33	-13	-55.33	-74.28	-74.19	2.45	10.46	V
	3256.6	-69.35	-13	-56.35	-77.38	-75.05	4.58	12.43	V
Middle	1635.3	-73.49	-13	-60.49	-75.20	-77.80	2.88	9.34	H
	2452.95	-69.46	-13	-56.46	-75.52	-75.32	2.5	10.51	H
	3270.6	-69.39	-13	-56.39	-77.39	-75.11	4.63	12.50	H
	1635.3	-73.38	-13	-60.38	-75.22	-77.69	2.88	9.34	V
	2452.95	-68.52	-13	-55.52	-74.47	-74.38	2.50	10.51	V
	3270.6	-69.43	-13	-56.43	-77.46	-75.15	4.63	12.50	V
Highest	1642.3	-72.65	-13	-59.65	-74.36	-76.95	2.92	9.37	H
	2463.45	-68.18	-13	-55.18	-74.13	-73.96	2.63	10.56	H
	3284.6	-69.43	-13	-56.43	-77.43	-75.11	4.74	12.57	H
	1642.3	-72.44	-13	-59.44	-74.28	-76.74	2.92	9.37	V
	2463.45	-62.60	-13	-49.60	-68.55	-68.38	2.63	10.56	V
	3284.6	-69.38	-13	-56.38	-77.41	-75.06	4.74	12.57	V

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



LTE Band 26 / 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)
Lowest	1628.5	-73.68	-13	-60.68	-75.39	-78.08	2.76	9.31	H
	2442.75	-69.67	-13	-56.67	-75.73	-75.53	2.45	10.46	H
	3257	-69.49	-13	-56.49	-77.49	-75.19	4.58	12.43	H
	1628.5	-73.39	-13	-60.39	-75.23	-77.79	2.76	9.31	V
	2442.75	-68.91	-13	-55.91	-74.86	-74.77	2.45	10.46	V
	3257	-69.49	-13	-56.49	-77.52	-75.19	4.58	12.43	V
Middle	1633.5	-73.69	-13	-60.69	-75.40	-78.00	2.88	9.34	H
	2450.25	-70.49	-13	-57.49	-76.55	-76.35	2.5	10.51	H
	3267	-69.30	-13	-56.30	-77.30	-75.02	4.63	12.50	H
	1633.5	-73.20	-13	-60.20	-75.04	-77.51	2.88	9.34	V
	2450.25	-70.10	-13	-57.10	-76.05	-75.96	2.50	10.51	V
	3267	-69.32	-13	-56.32	-77.35	-75.04	4.63	12.50	V
Highest	1638.5	-73.72	-13	-60.72	-75.43	-78.02	2.92	9.37	H
	2457.75	-70.66	-13	-57.66	-76.72	-76.44	2.63	10.56	H
	3277	-69.33	-13	-56.33	-77.33	-75.01	4.74	12.57	H
	1638.5	-73.23	-13	-60.23	-75.07	-77.53	2.92	9.37	V
	2457.75	-70.20	-13	-57.20	-76.15	-75.98	2.63	10.56	V
	3277	-69.35	-13	-56.35	-77.38	-75.03	4.74	12.57	V

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



LTE Band 26 / 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	1629	-73.33	-13	-60.33	-75.04	-77.64	2.88	9.34	H
	2443.5	-70.55	-13	-57.55	-76.61	-76.41	2.5	10.51	H
	3258	-69.46	-13	-56.46	-77.46	-75.18	4.63	12.50	H
	1629	-73.21	-13	-60.21	-75.05	-77.52	2.88	9.34	V
	2443.5	-69.84	-13	-56.84	-75.79	-75.70	2.50	10.51	V
	3258	-69.53	-13	-56.53	-77.56	-75.25	4.63	12.50	V

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