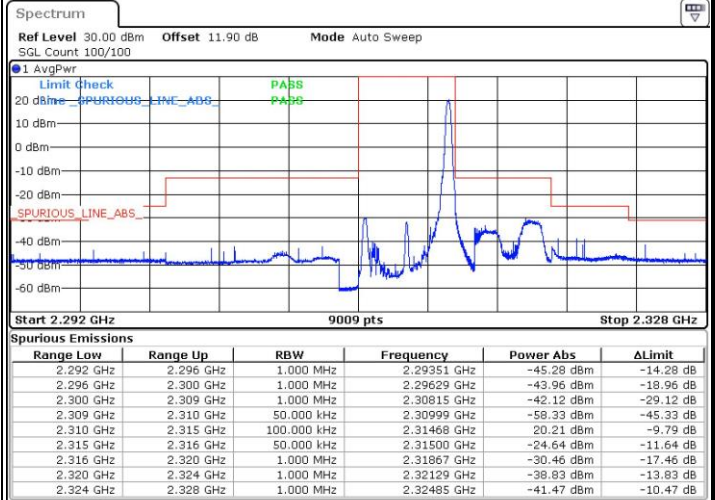
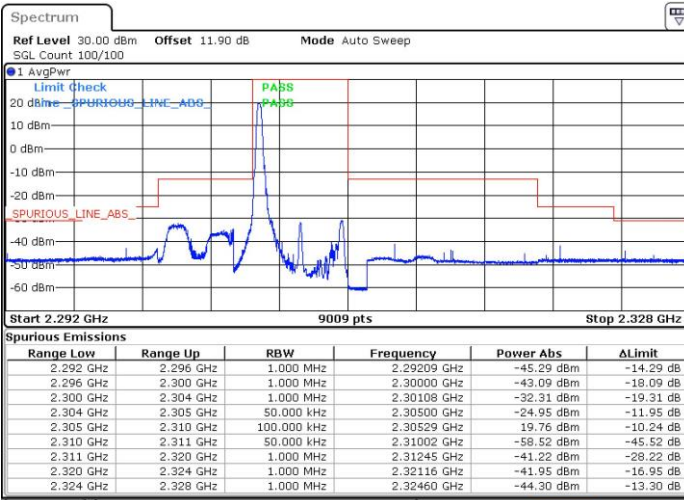




LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

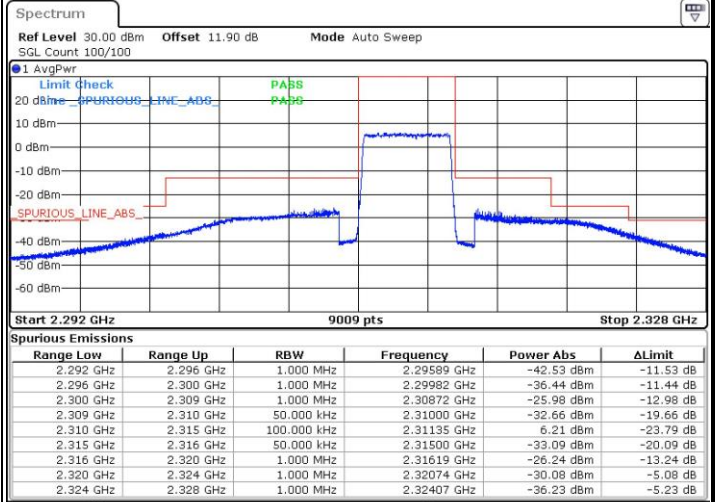
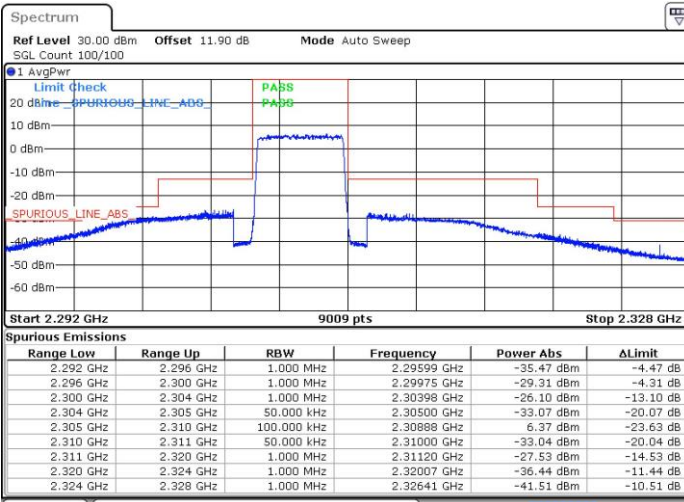


Date: 14.SEP.2018 20:02:40

Date: 14.SEP.2018 20:07:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.SEP.2018 20:04:32

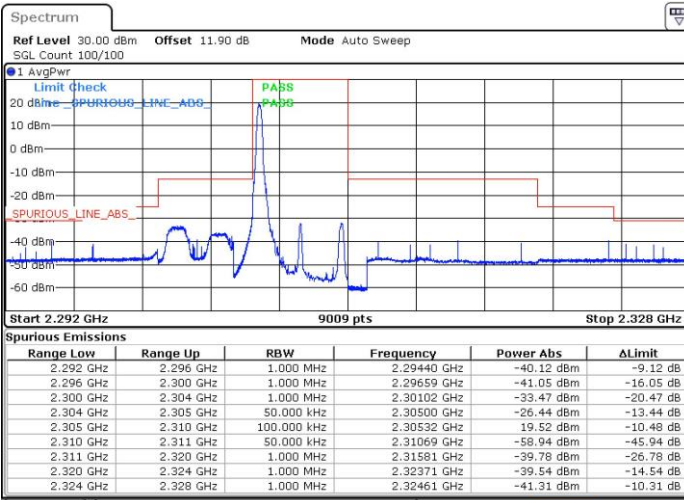
Date: 14.SEP.2018 20:09:47



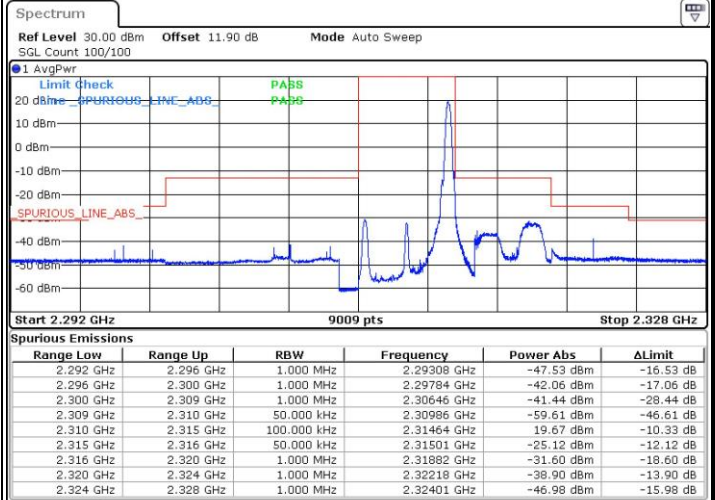
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



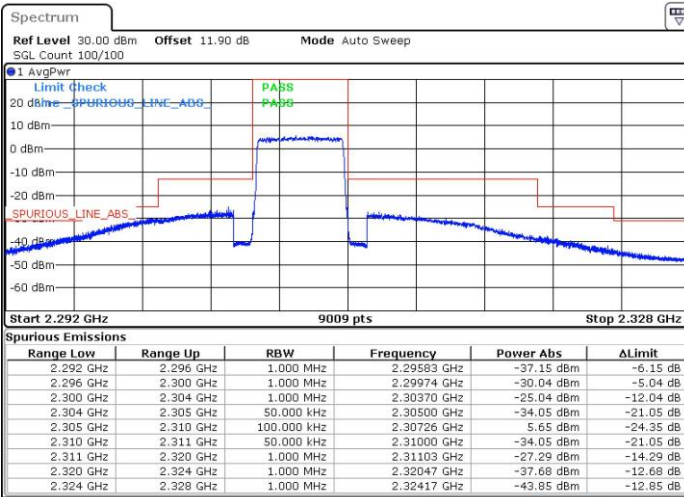
Date: 14.SEP.2018 20:17:26



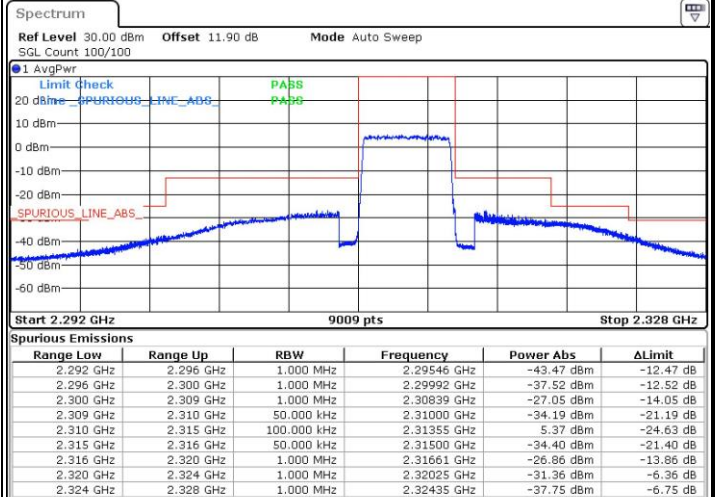
Date: 14.SEP.2018 20:20:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.SEP.2018 20:18:22



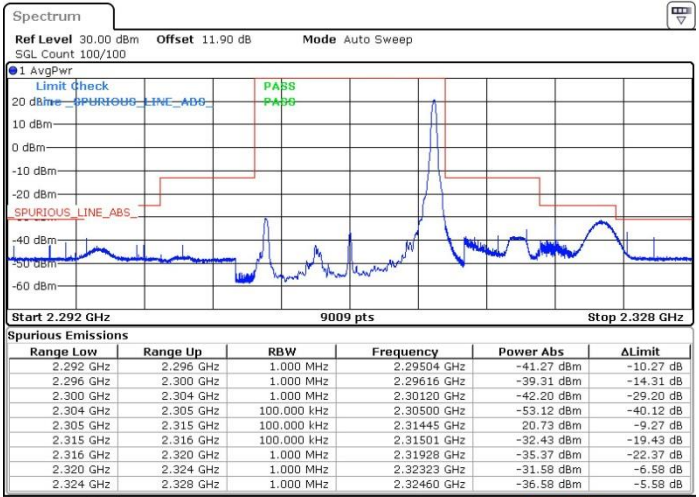
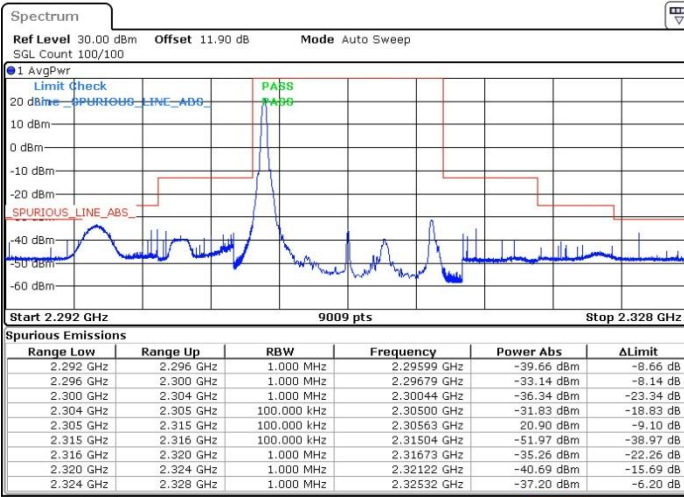
Date: 14.SEP.2018 20:21:00



LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB

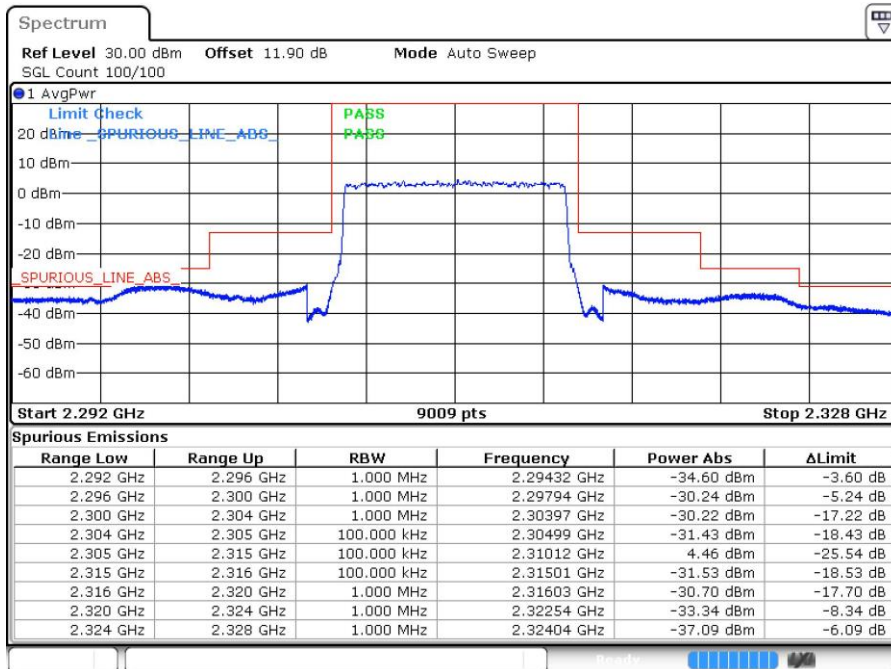
Highest Band Edge / 1 RB



Date: 14.SEP.2018 20:11:28

Date: 14.SEP.2018 20:13:20

Band Edge / Full RB



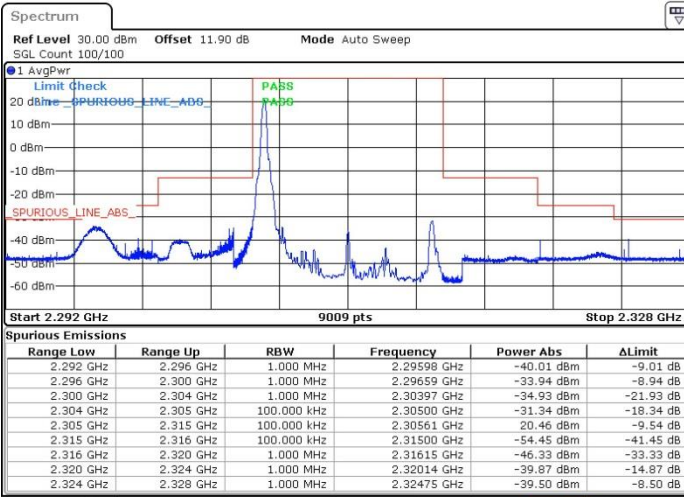
Date: 14.SEP.2018 20:15:12



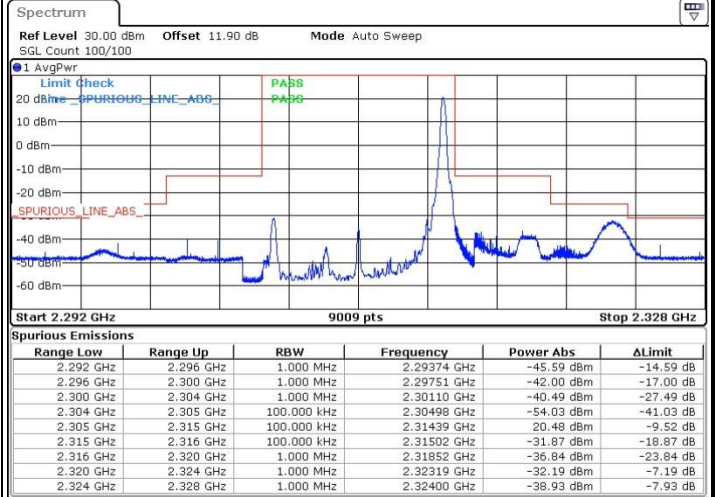
LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

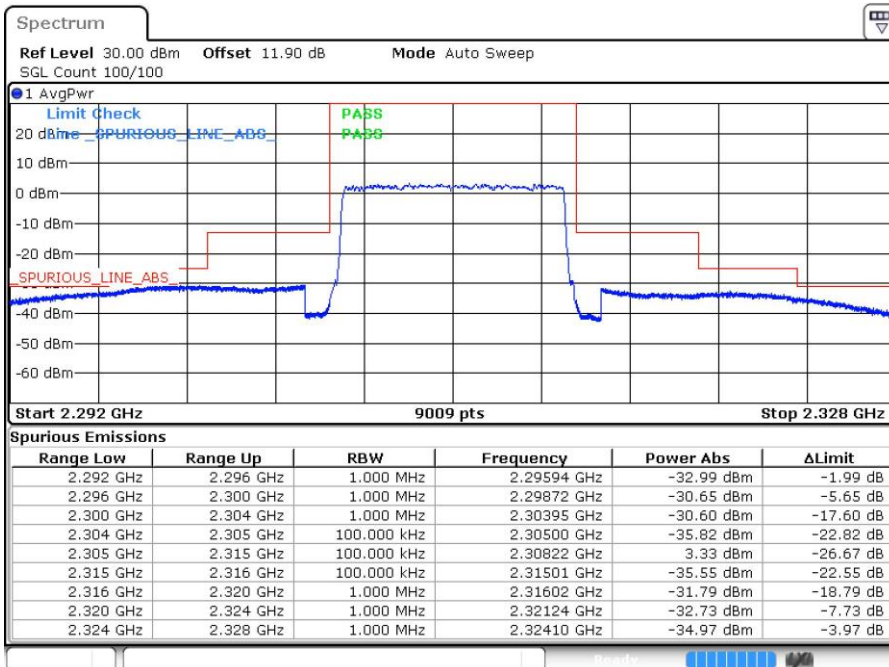


Date: 14 SEP 2018 20:12:24



Date: 14 SEP 2018 20:14:16

Band Edge / Full RB

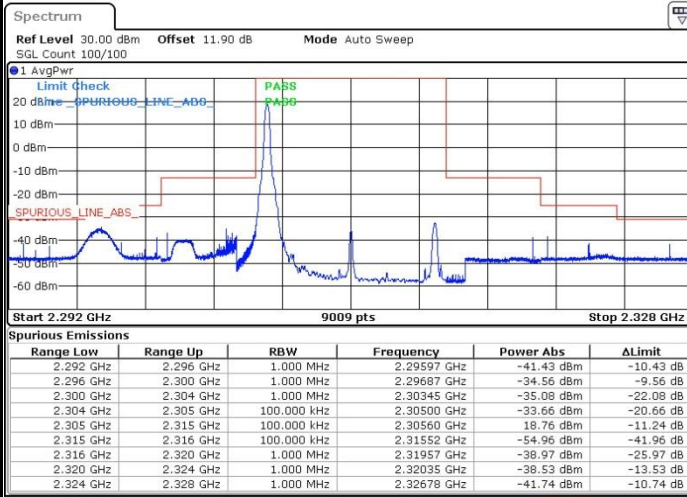


Date: 14 SEP 2018 20:16:08



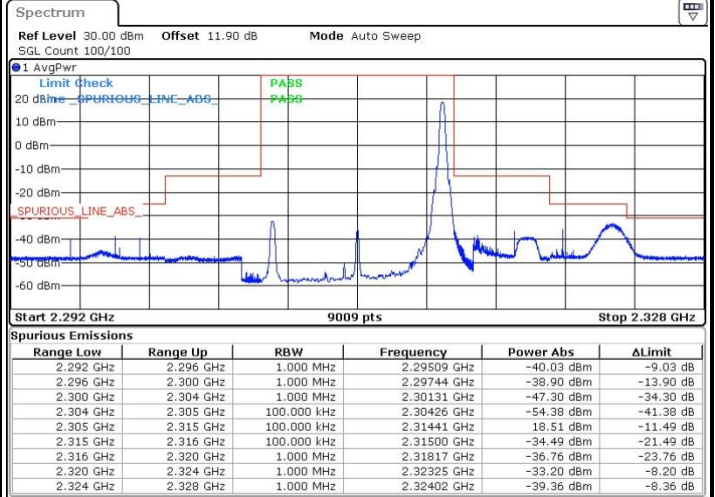
LTE Band 30 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



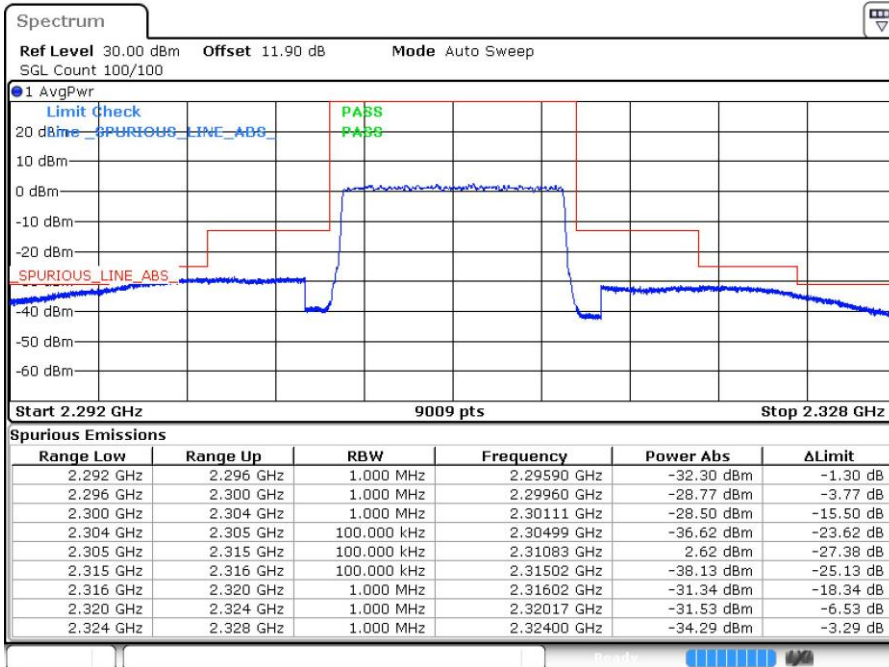
Date: 14 SEP 2018 20:22:18

Highest Band Edge / 1 RB



Date: 14 SEP 2018 20:23:14

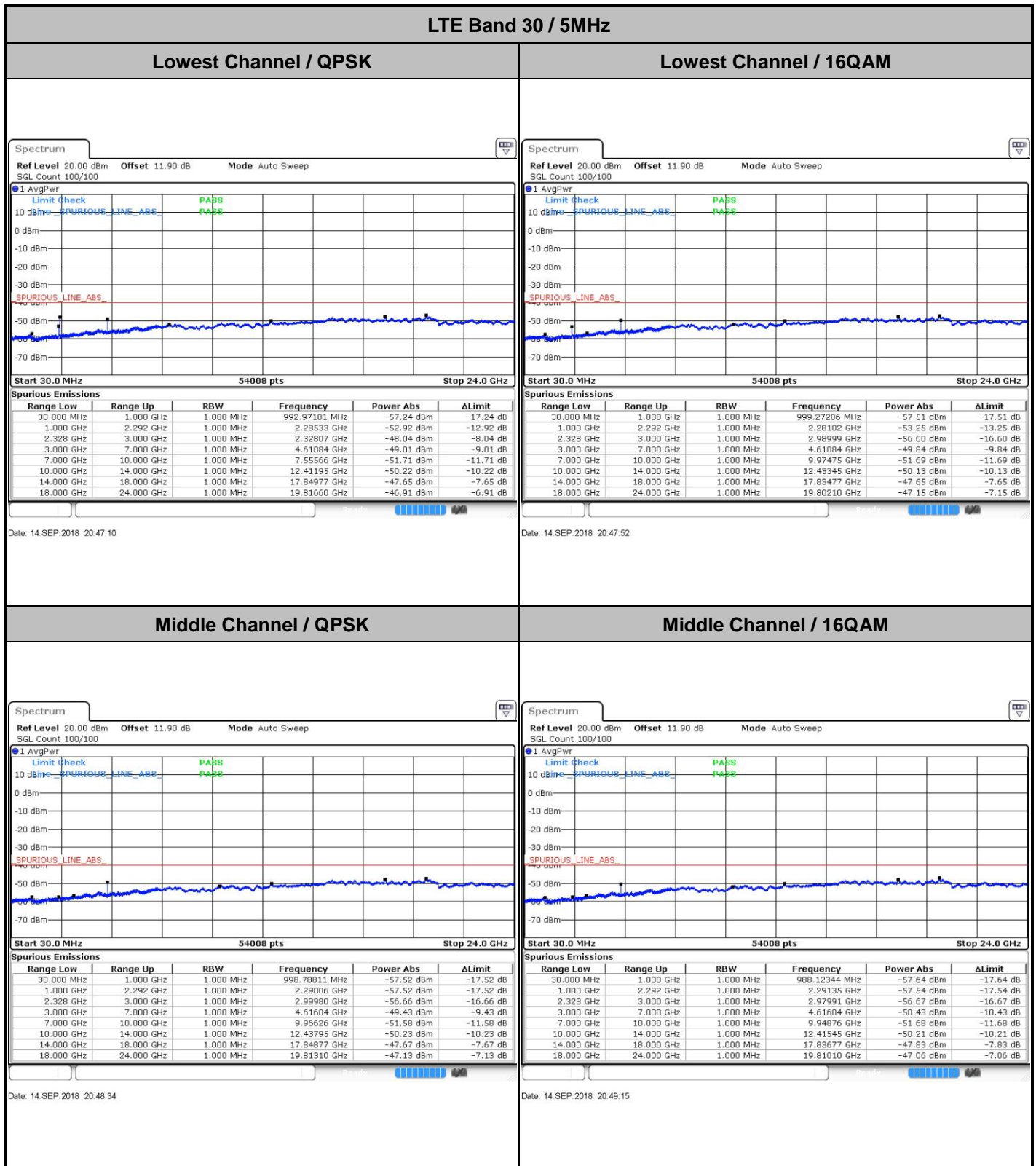
Band Edge / Full RB



Date: 14 SEP 2018 20:24:10



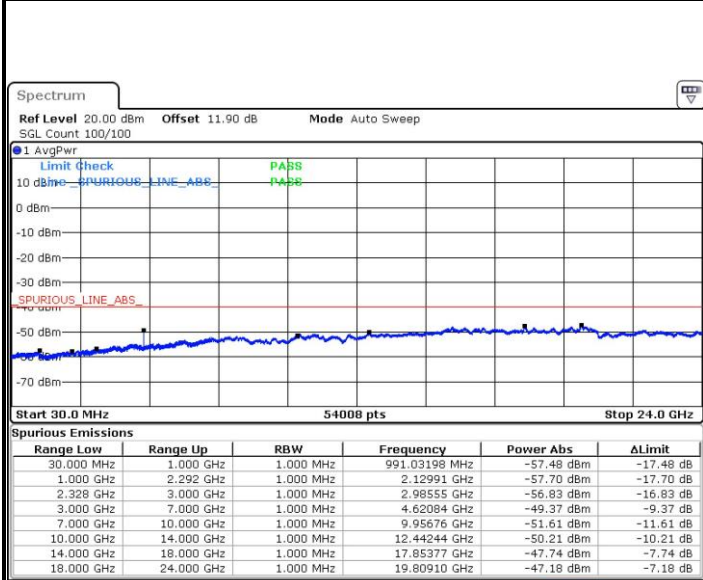
Conducted Spurious Emission





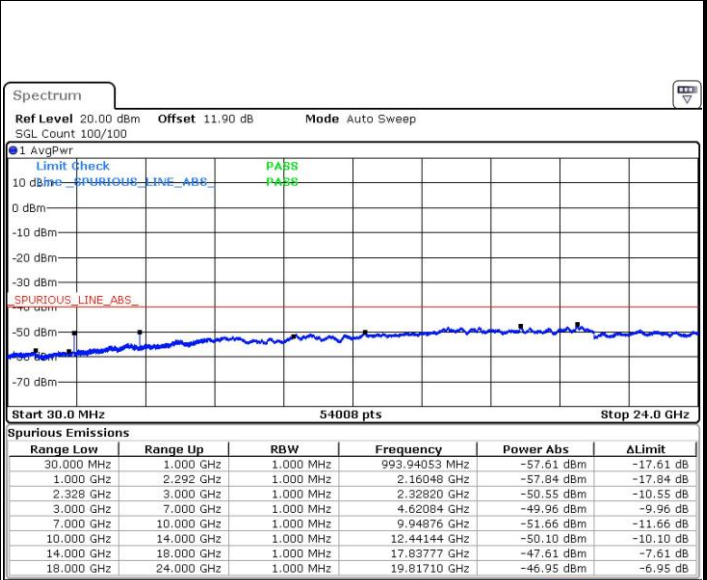
LTE Band 30 / 5MHz

Highest Channel / QPSK



Date: 14.SEP.2018 20:49:57

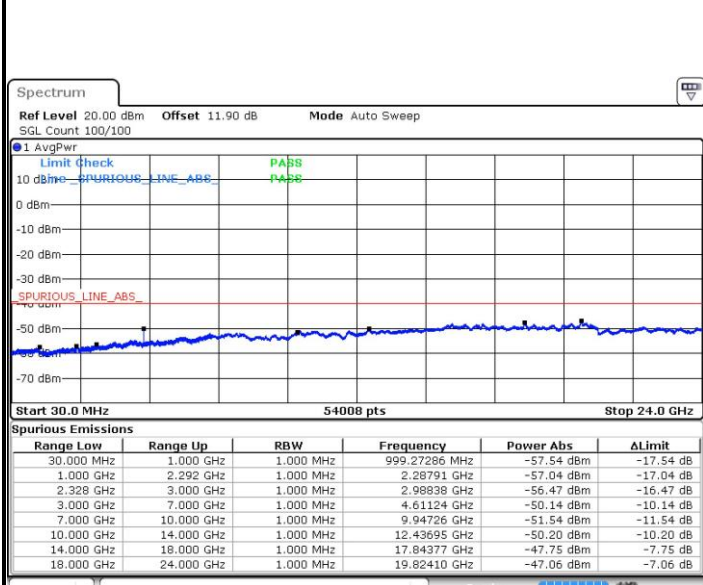
Highest Channel / 16QAM



Date: 14.SEP.2018 20:50:39

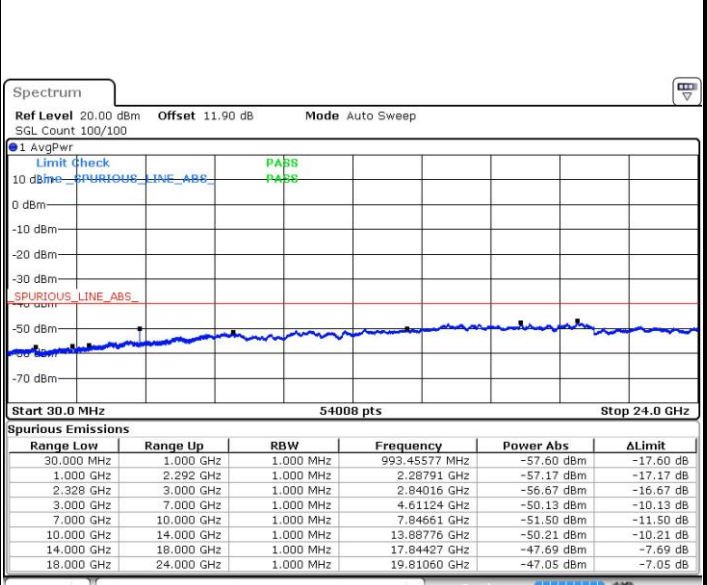
LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 14.SEP.2018 20:54:09

Middle Channel / 16QAM

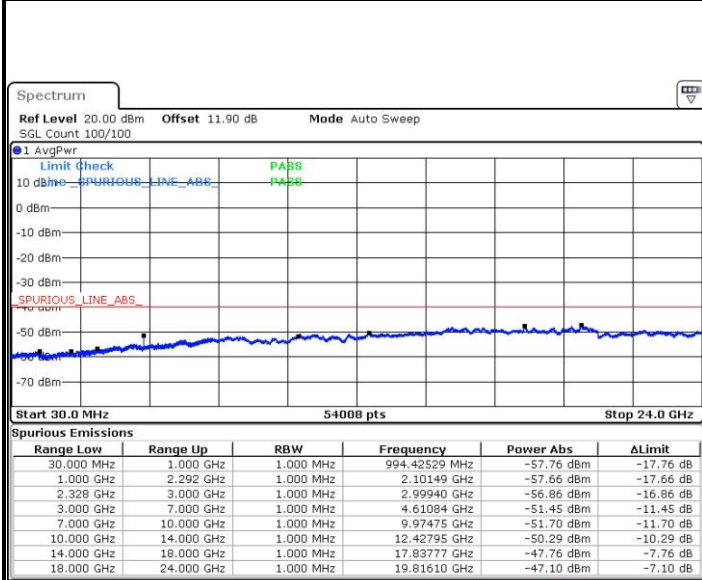


Date: 14.SEP.2018 20:54:51



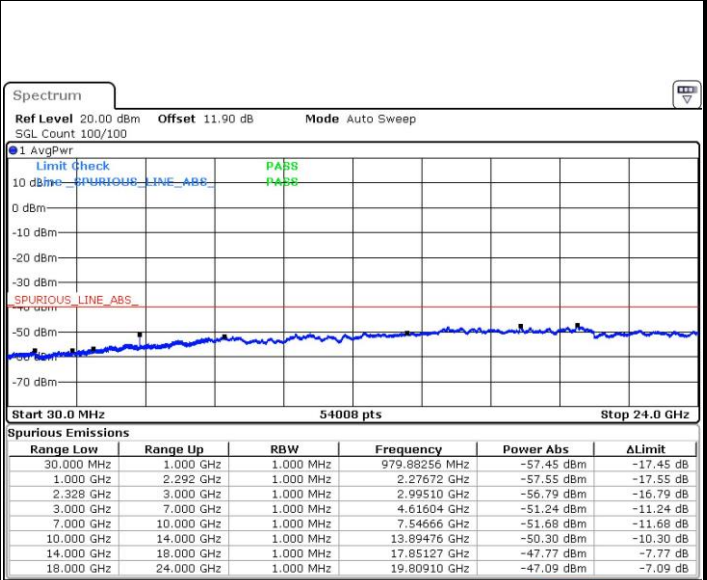
LTE Band 30 / 5MHz

Lowest Channel / 64QAM



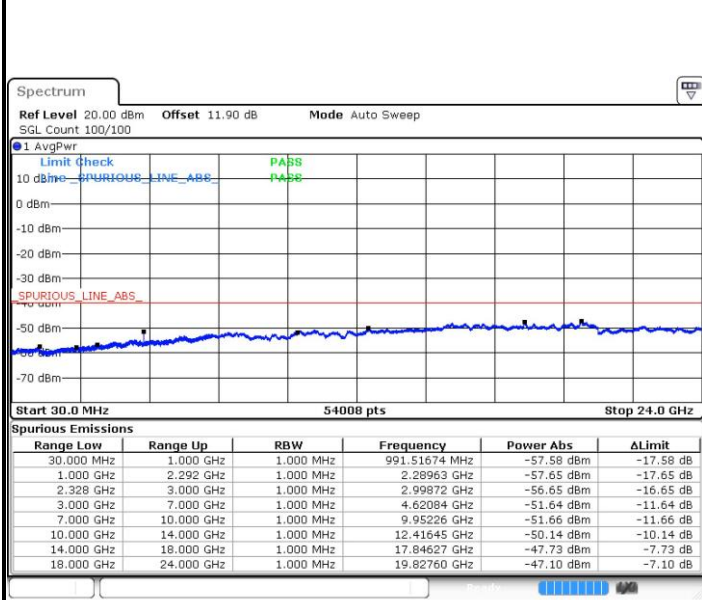
Date: 14.SEP.2018 20:51:21

Middle Channel / 64QAM



Date: 14.SEP.2018 20:52:03

Highest Channel / 64QAM

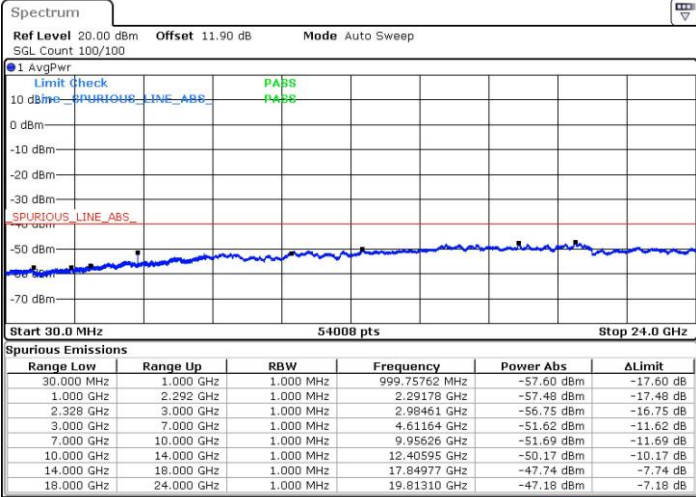


Date: 14.SEP.2018 20:52:45



LTE Band 30 / 10MHz

Middle Channel / 64QAM



Date: 14.SEP.2016 20:53:27



Frequency Stability

Test Conditions		LTE Band 30 (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	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of EIRP and Radiated Test

EIRP

<Reporting Only>

LTE Band 30 / 5MHz (Average) (GT - LC = 1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.36	0.2168	24.56	0.2858
Middle		1	0	23.34	0.2158	24.54	0.2844
Highest		1	0	23.33	0.2153	24.53	0.2838
Lowest	16QAM	1	0	22.40	0.1738	23.60	0.2291
Middle		1	0	22.39	0.1734	23.59	0.2286
Highest		1	0	22.36	0.1722	23.56	0.2270
Lowest	64QAM	1	12	21.32	0.1355	22.52	0.1786
Middle		1	12	21.33	0.1358	22.53	0.1791
Highest		1	12	21.50	0.1413	22.70	0.1862
Limit	EIRP < 0.25W			Result		PASS	

LTE Band 30 / 10MHz (Average) (GT - LC = 1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.41	0.2193	24.61	0.2891
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	22.44	0.1754	23.64	0.2312
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	49	21.49	0.1409	22.69	0.1858
Highest		-	-	-	-	-	-
Limit	EIRP < 0.25W			Result		PASS	



Radiated Spurious Emission

Part27D LTE Band 30

LTE Band 30 / 5MHz / QPSK									
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	4608	-66.84	-40	-26.84	-57.75	-76.89	2.05	12.10	H
	6918	-52.19	-40	-12.19	-47.07	-60.78	2.39	10.98	H
	11520	-56.57	-40	-16.57	-57.19	-65.33	2.29	11.05	H
	16146	-53.51	-40	-13.51	-58.58	-68.09	2.57	17.15	H
									H
									H
									H
	4608	-69.07	-40	-29.07	-59.75	-79.12	2.05	12.10	V
	6918	-59.22	-40	-19.22	-53.24	-67.81	2.39	10.98	V
	11520	-59.11	-40	-19.11	-59.65	-67.87	2.29	11.05	V
	16146	-58.88	-40	-18.88	-62.93	-73.46	2.57	17.15	V
									V
									V
									V



Middle	4614	-64.98	-40	-24.98	-55.9	-75.02	2.06	12.10	H
	6924	-53.81	-40	-13.81	-48.8	-62.39	2.39	10.98	H
	11538	-56.61	-40	-16.61	-57.17	-65.41	2.29	11.09	H
	16164	-53.30	-40	-13.30	-58.43	-67.86	2.57	17.14	H
									H
									H
									H
	4614	-68.17	-40	-28.17	-58.86	-78.21	2.06	12.10	V
	6924	-59.97	-40	-19.97	-54.05	-68.55	2.39	10.98	V
	11538	-59.21	-40	-19.21	-59.67	-68.01	2.29	11.09	V
	16164	-58.38	-40	-18.38	-62.51	-72.94	2.57	17.14	V
									V
									V
									V
Highest	4620	-62.13	-40	-22.13	-53.05	-72.17	2.06	12.10	H
	6930	-54.64	-40	-14.64	-49.64	-63.21	2.40	10.97	H
	11556	-56.73	-40	-16.73	-57.24	-65.57	2.30	11.13	H
	16164	-47.81	-40	-7.81	-52.94	-62.37	2.57	17.14	H
									H
									H
									H
	4620	-66.90	-40	-26.90	-57.59	-76.94	2.06	12.10	V
	6930	-59.53	-40	-19.53	-53.62	-68.10	2.40	10.97	V
	11556	-59.49	-40	-19.49	-59.89	-68.33	2.30	11.13	V
	16164	-56.56	-40	-16.56	-60.69	-71.12	2.57	17.14	V
									V
									V
									V

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



LTE Band 30 / 10MHz / QPSK									
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	4614	-65.63	-40	-25.63	-56.55	-75.67	2.06	12.10	H
	6918	-51.24	-40	-11.24	-46.12	-59.83	2.39	10.98	H
	11520	-57.10	-40	-17.10	-57.72	-65.86	2.29	11.05	H
	16146	-53.45	-40	-13.45	-58.52	-68.03	2.57	17.15	H
									H
									H
									H
	4614	-68.41	-40	-28.41	-59.1	-78.45	2.06	12.10	V
	6918	-59.40	-40	-19.40	-53.42	-67.99	2.39	10.98	V
	11520	-59.58	-40	-19.58	-60.12	-68.34	2.29	11.05	V
	16146	-59.43	-40	-19.43	-63.48	-74.01	2.57	17.15	V
									V
									V
									V

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



Part27D LTE Band 30 For WPC

LTE Band 30 / 5MHz / QPSK									
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)
Highest	4620	-65.54	-40	-25.54	-56.46	-75.58	2.06	12.10	H
	6930	-58.35	-40	-18.35	-53.35	-66.92	2.40	10.97	H
	9234	-57.11	-40	-17.11	-59.08	-67.01	2.22	12.12	H
	11556	-59.26	-40	-19.26	-59.77	-68.10	2.30	11.13	H
	13860	-55.29	-40	-15.29	-57.42	-65.75	2.38	12.84	H
	16164	-53.21	-40	-13.21	-58.34	-67.77	2.57	17.14	H
									H
	4620	-62.31	-40	-22.31	-53	-72.35	2.06	12.10	V
	6930	-55.12	-40	-15.12	-49.21	-63.69	2.40	10.97	V
	9234	-60.06	-40	-20.06	-60.99	-69.96	2.22	12.12	V
	11556	-56.80	-40	-16.80	-57.2	-65.64	2.30	11.13	V
	13860	-56.33	-40	-16.33	-58.17	-66.79	2.38	12.84	V
	16164	-52.11	-40	-12.11	-56.24	-66.67	2.57	17.14	V
									V

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