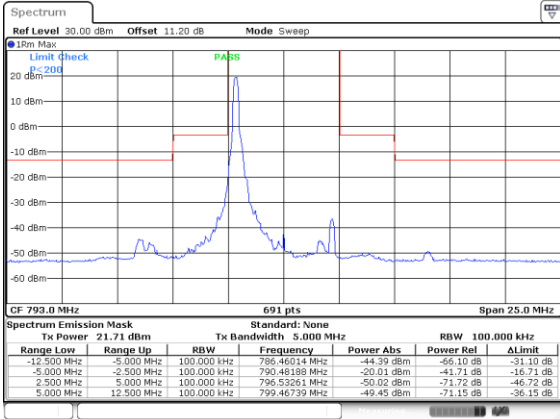


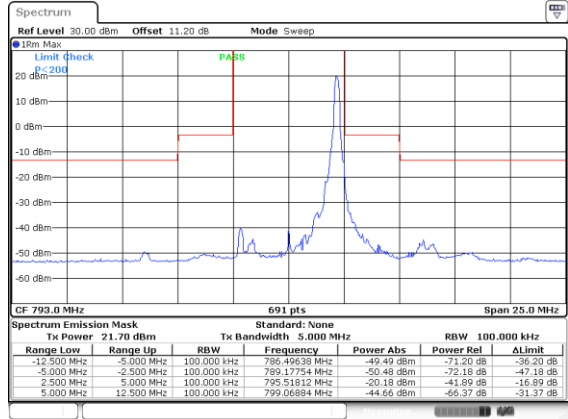


LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

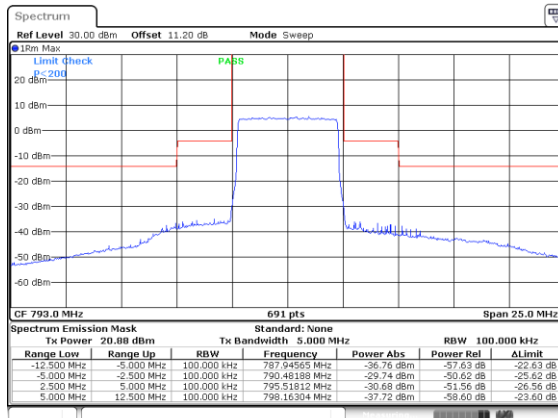


Date: 25 JUL 2020 12:35:55



Date: 25 JUL 2020 12:34:28

Middle Channel / Full RB

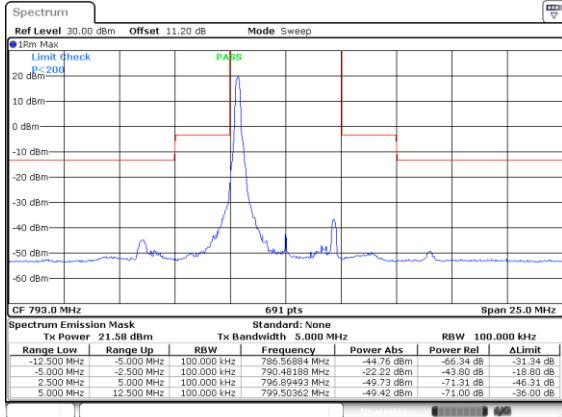


Date: 25 JUL 2020 12:37:23

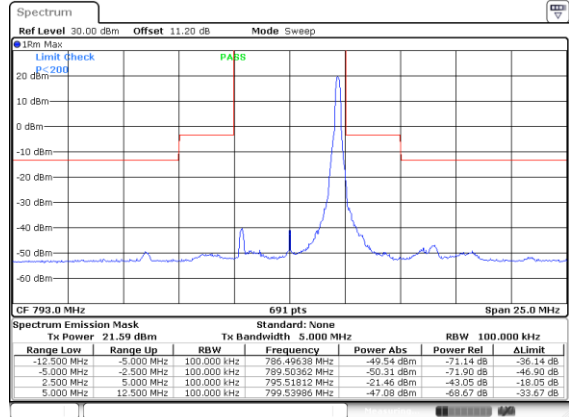


LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB

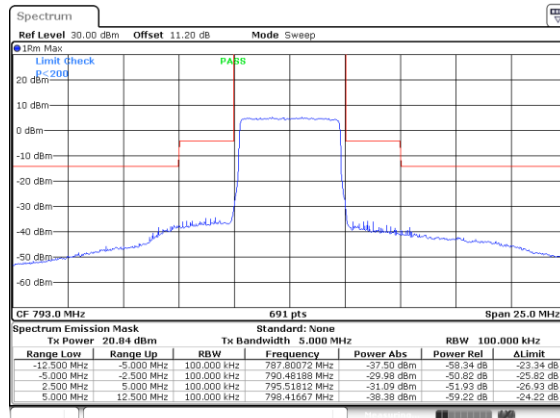


Date: 25 JUL 2020 12:36:24



Date: 25 JUL 2020 12:33:57

Middle Channel / Full RB

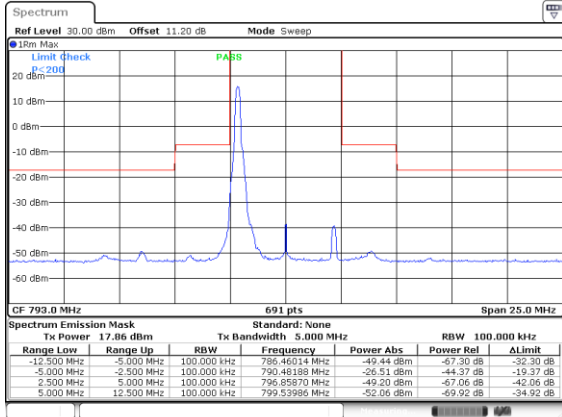


Date: 25 JUL 2020 12:36:54

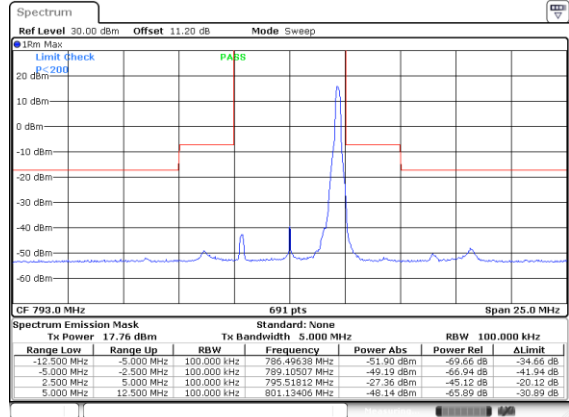


LTE Band 14 / 5MHz / 256QAM

Middle Channel / 1RB

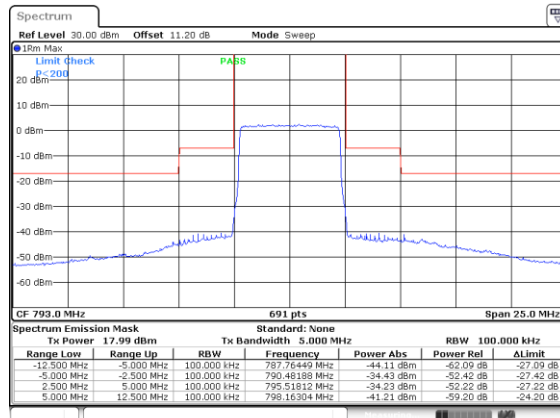


Date: 25 JUL 2020 13:04:46



Date: 25 JUL 2020 13:05:22

Middle Channel / Full RB

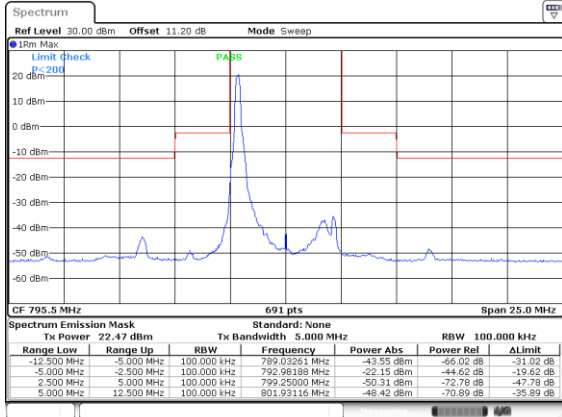


Date: 25 JUL 2020 13:04:07

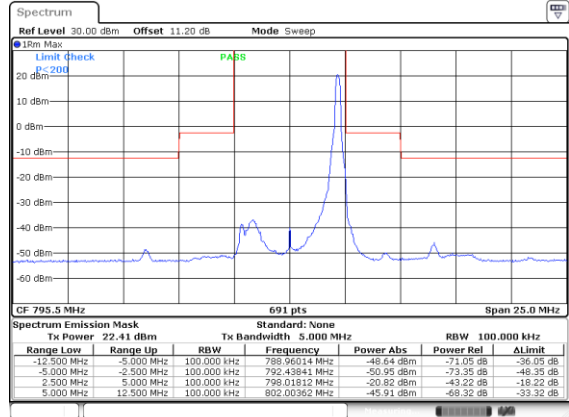


LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB

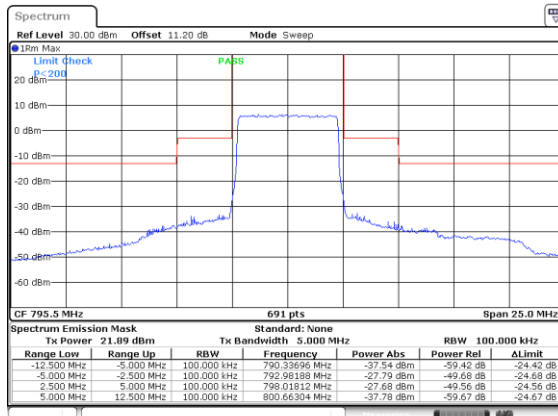


Date: 25 JUL 2020 12:40:53



Date: 25 JUL 2020 12:41:23

Highest Channel / Full RB

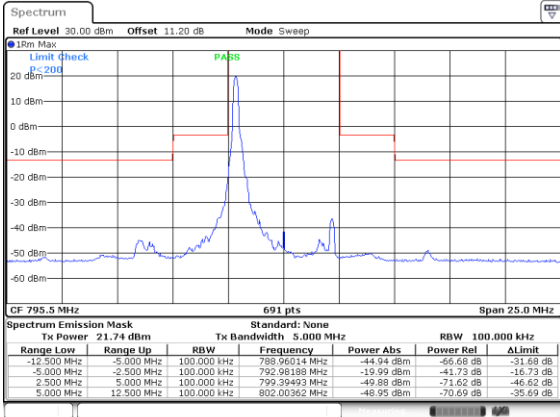


Date: 25 JUL 2020 12:38:22

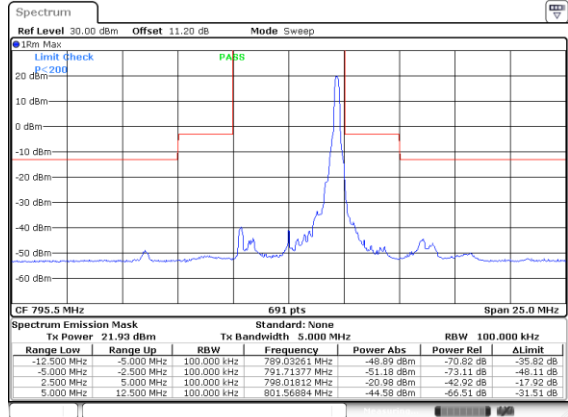


LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB

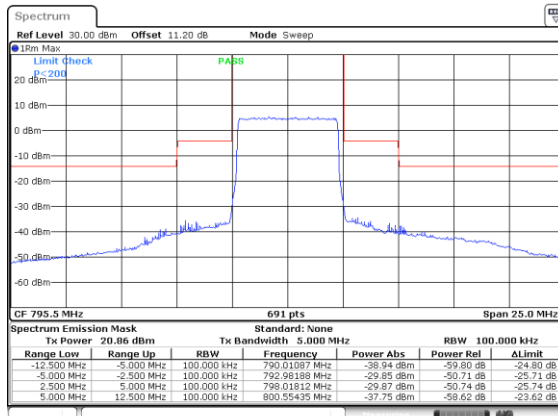


Date: 25 JUL 2020 12:40:23



Date: 25 JUL 2020 12:41:53

Highest Channel / Full RB

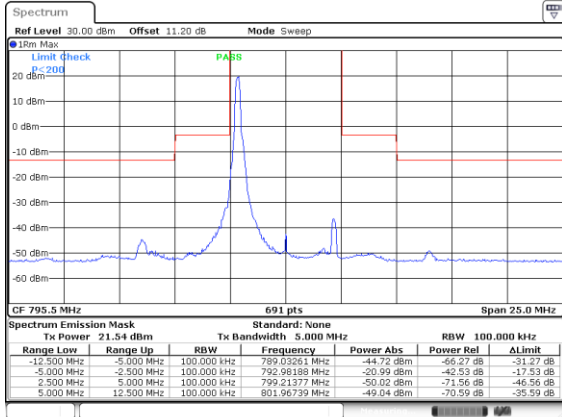


Date: 25 JUL 2020 12:38:53

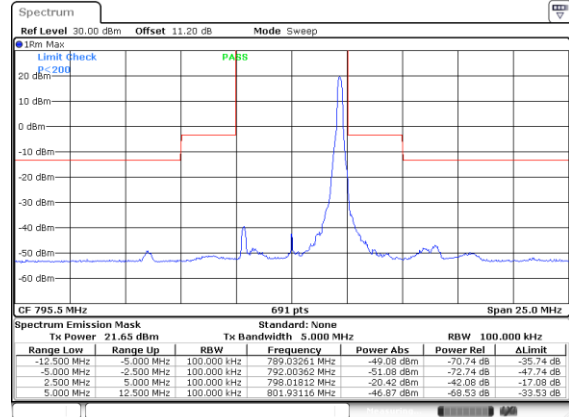


LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

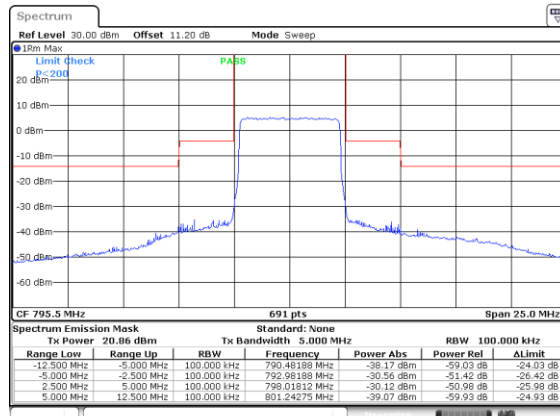


Date: 25 JUL 2020 12:39:53



Date: 25 JUL 2020 12:42:23

Highest Channel / Full RB

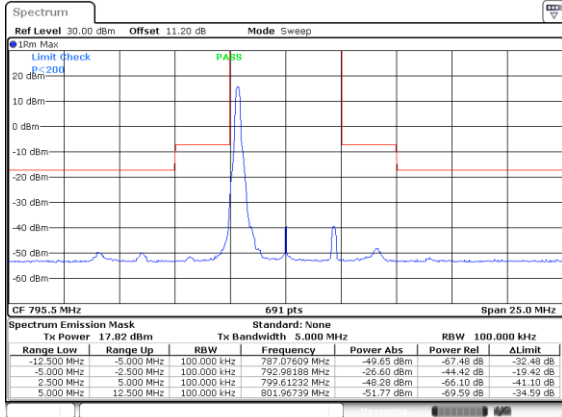


Date: 25 JUL 2020 12:39:23

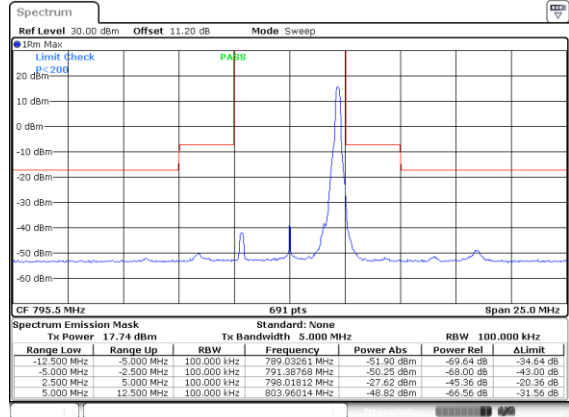


LTE Band 14 / 5MHz / 256QAM

Highest Channel / 1RB

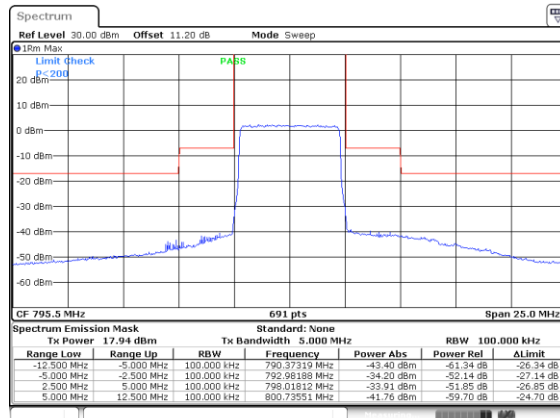


Date: 25 JUL 2020 13:13:42



Date: 25 JUL 2020 13:14:19

Highest Channel / Full RB

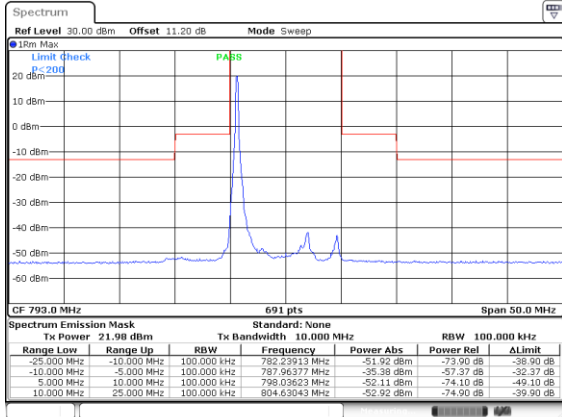


Date: 25 JUL 2020 13:13:07

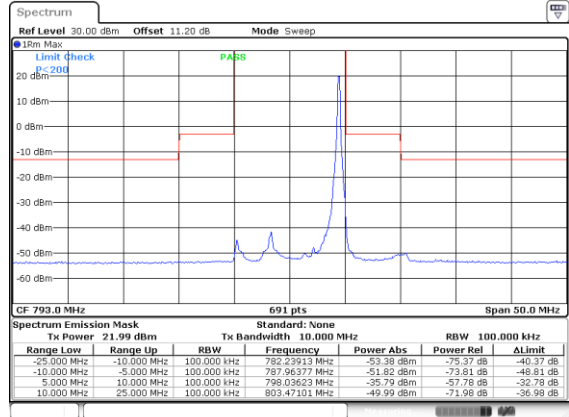


LTE Band 14 / 10MHz / QPSK

Middle Channel / 1RB

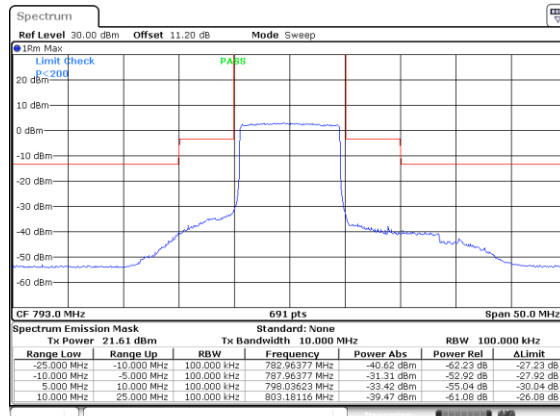


Date: 25 JUL 2020 12:44:22



Date: 25 JUL 2020 12:43:53

Middle Channel / Full RB

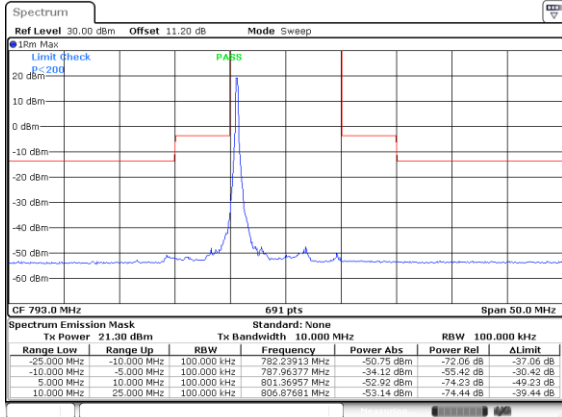


Date: 25 JUL 2020 12:46:50

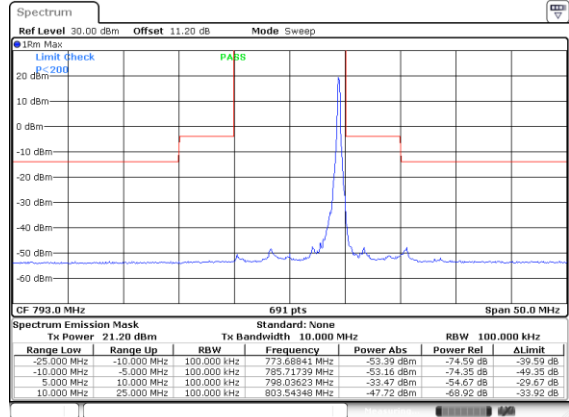


LTE Band 14 / 10MHz / 16QAM

Middle Channel / 1RB

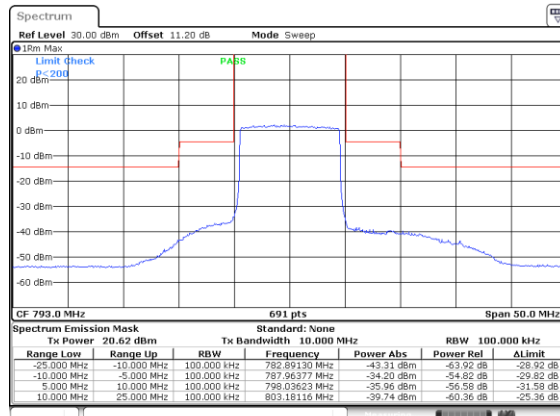


Date: 25 JUL 2020 12:44:52



Date: 25 JUL 2020 12:43:23

Middle Channel / Full RB

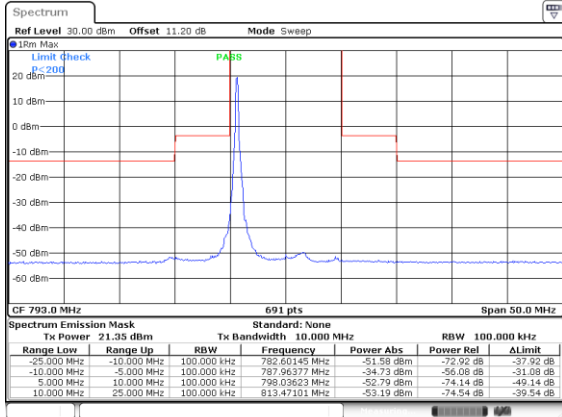


Date: 25 JUL 2020 12:46:20

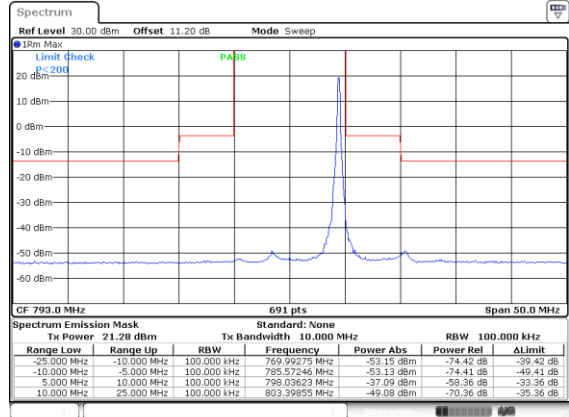


LTE Band 14 / 10MHz / 64QAM

Middle Channel / 1RB

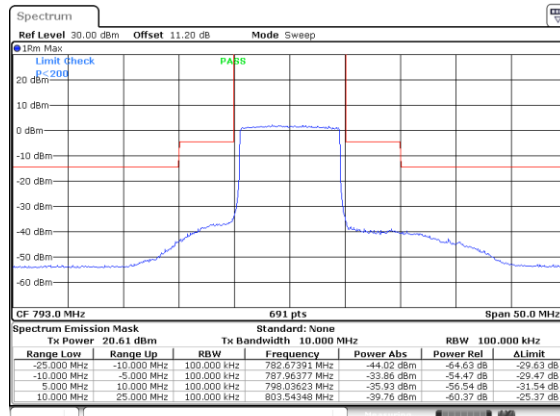


Date: 25 JUL 2020 12:45:21



Date: 25 JUL 2020 12:42:54

Middle Channel / Full RB

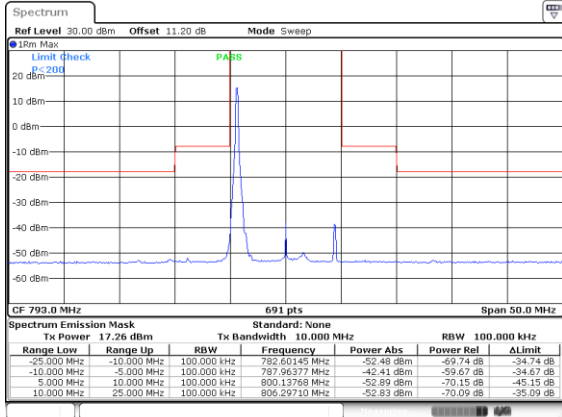


Date: 25 JUL 2020 12:45:51

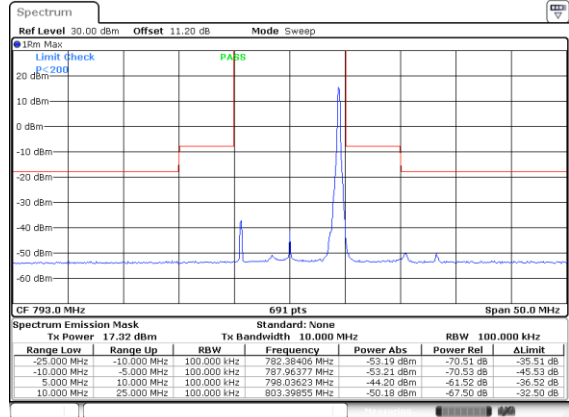


LTE Band 14 / 10MHz / 256QAM

Middle Channel / 1RB

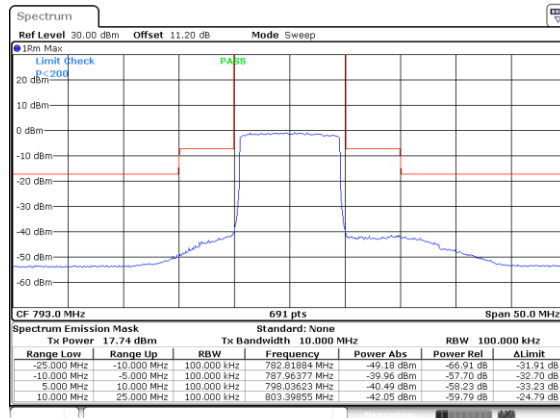


Date: 25 JUL 2020 13:02:29



Date: 25 JUL 2020 13:03:07

Middle Channel / Full RB



Date: 25 JUL 2020 13:01:44



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0086	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 14 / 5MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	EIRP(dBm)	EIRP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.62	0.1828	20.67	0.1167
Middle		1	0	22.76	0.1888	20.81	0.1205
Highest		1	0	22.69	0.1858	20.74	0.1186
Lowest	16QAM	1	24	22.07	0.1611	20.12	0.1028
Middle		1	24	22.11	0.1626	20.16	0.1038
Highest		1	24	22.01	0.1589	20.06	0.1014
Lowest	64QAM	1	0	21.01	0.1262	19.06	0.0805
Middle		1	0	20.94	0.1242	18.99	0.0793
Highest		1	0	20.88	0.1225	18.93	0.0782
Lowest	256QAM	1	0	17.87	0.0612	18.07	0.0641
Middle		1	0	17.90	0.0617	18.10	0.0646
Highest		1	0	17.94	0.0622	18.14	0.0652
Limit	ERP < 3W			Result		PASS	

LTE Band 14 / 10MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	EIRP(dBm)	EIRP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.76	0.1888	20.81	0.1205
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	22.14	0.1637	20.19	0.1045
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	21.10	0.1288	19.15	0.0822
Highest		-	-	-	-	-	-
Lowest	256QAM	-	-	-	-	-	-
Middle		1	0	18.49	0.0706	18.69	0.0740
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



Radiated Spurious Emission

LTE Band 14

LTE Band 14 / 5MHz / QPSK									
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	1576	-61.38	-42.15	-19.23	-71.16	-66.72	0.90	8.39	H
	2368	-57.29	-13	-44.29	-71.35	-64.53	1.12	10.52	H
	3152	-56.08	-13	-43.08	-71.66	-64.30	1.30	11.66	H
									H
									H
									H
									H
	1576	-61.95	-42.15	-19.80	-71.20	-67.29	0.90	8.39	V
	2368	-57.66	-13	-44.66	-71.49	-64.90	1.12	10.52	V
	3152	-55.76	-13	-42.76	-71.76	-63.98	1.30	11.66	V
									V
									V
									V
									V



Middle	1581	-61.35	-42.15	-19.20	-71.05	-66.71	0.90	8.41	H
	2372	-57.23	-13	-44.23	-71.23	-64.48	1.12	10.52	H
	3163	-55.63	-13	-42.63	-71.24	-63.88	1.30	11.69	H
									H
									H
									H
									H
	1581	-62.05	-42.15	-19.90	-71.28	-67.41	0.90	8.41	V
	2372	-57.48	-13	-44.48	-71.29	-64.73	1.12	10.52	V
	3163	-55.23	-13	-42.23	-71.28	-63.48	1.30	11.69	V
									V
									V
									V
									V
Highest	1584	-60.96	-42.15	-18.81	-70.67	-66.33	0.90	8.42	H
	2376	-56.97	-13	-43.97	-70.97	-64.22	1.12	10.53	H
	3176	-55.30	-13	-42.30	-70.93	-63.57	1.30	11.72	H
									H
									H
									H
									H
	1584	-61.59	-42.15	-19.44	-70.83	-66.96	0.90	8.42	V
	2376	-57.38	-13	-44.38	-71.19	-64.63	1.12	10.53	V
	3176	-55.00	-13	-42.00	-71.09	-63.27	1.30	11.72	V
									V
									V
									V
									V

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



LTE Band 14 / 10MHz / QPSK									
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	1576	-61.39	-42.15	-19.24	-71.17	-66.73	0.90	8.39	H
	2368	-57.50	-13	-44.50	-71.56	-64.74	1.12	10.52	H
	3152	-55.93	-13	-42.93	-71.51	-64.15	1.30	11.66	H
									H
									H
									H
									H
	1576	-62.03	-42.15	-19.88	-71.28	-67.37	0.90	8.39	V
	2368	-57.67	-13	-44.67	-71.5	-64.91	1.12	10.52	V
	3152	-55.51	-13	-42.51	-71.51	-63.73	1.30	11.66	V
									V
									V
									V
									V

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