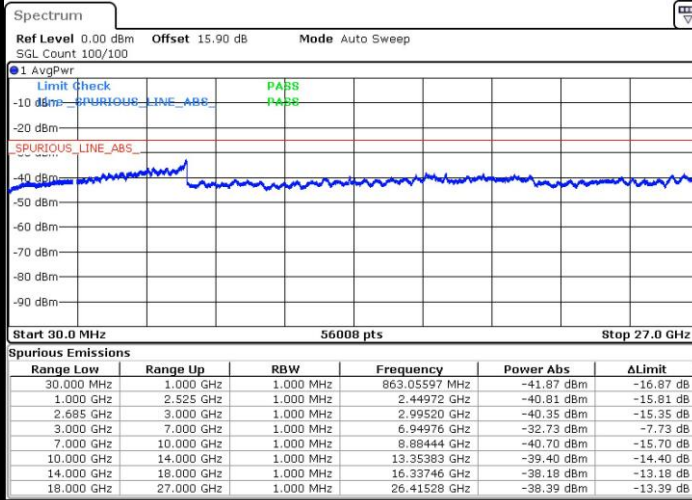




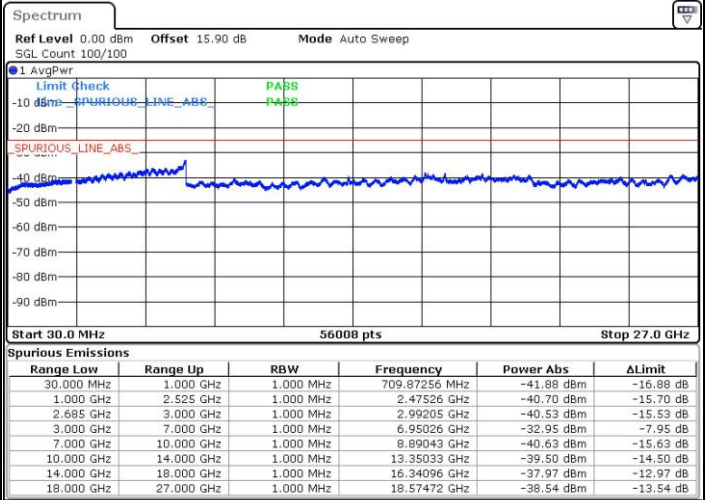
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 13.APR.2018 10:57:13

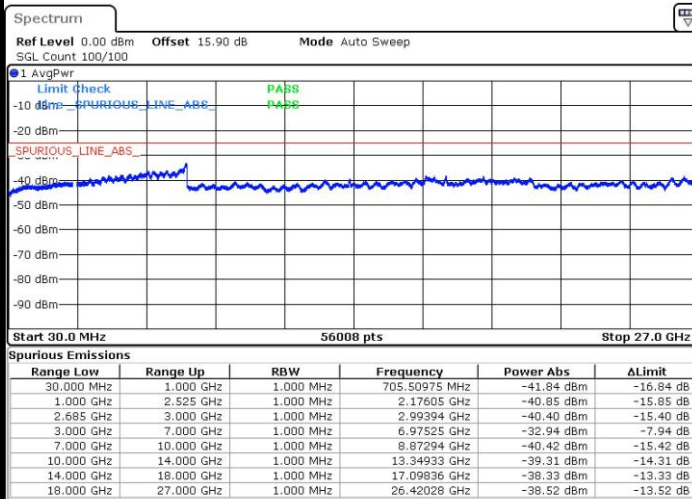
Highest Channel / 16QAM



Date: 13.APR.2018 10:58:13

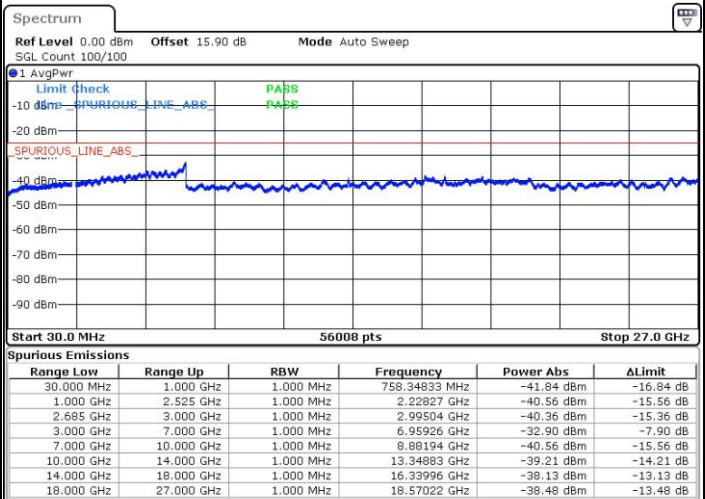
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 13.APR.2018 10:59:14

Lowest Channel / 16QAM

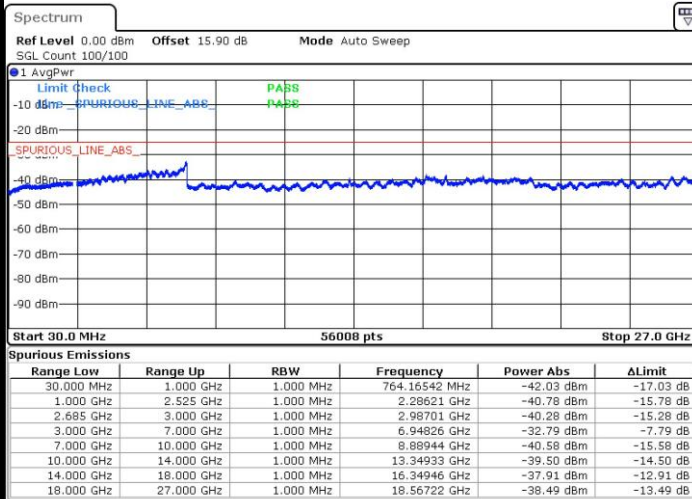


Date: 13.APR.2018 11:00:14



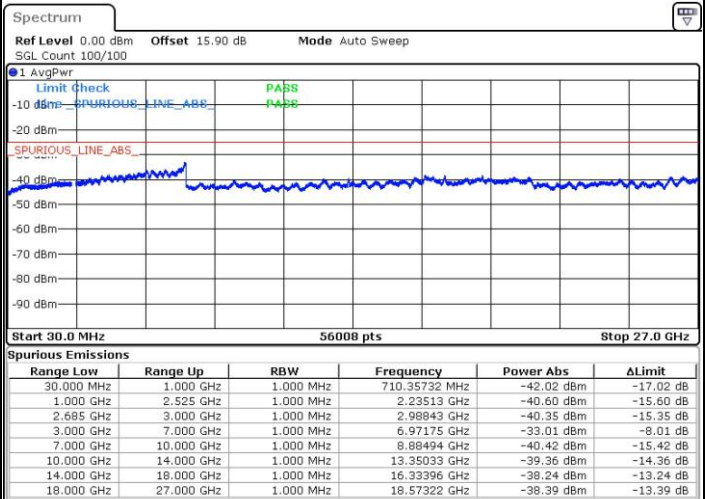
LTE Band 41 / 10MHz

Middle Channel / QPSK



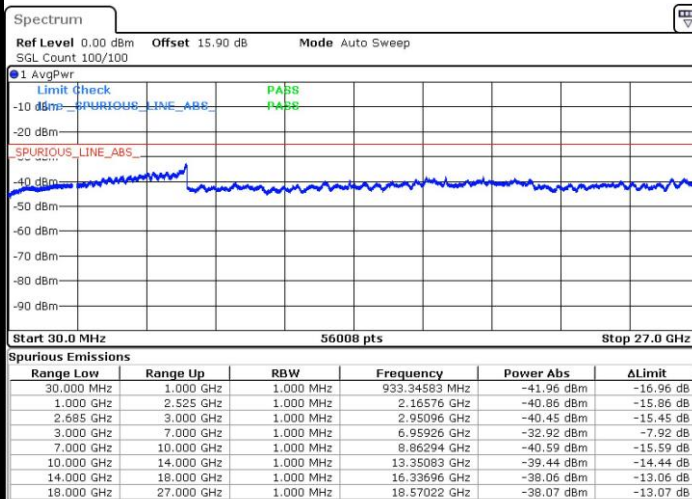
Date: 13.APR.2018 11:01:15

Middle Channel / 16QAM



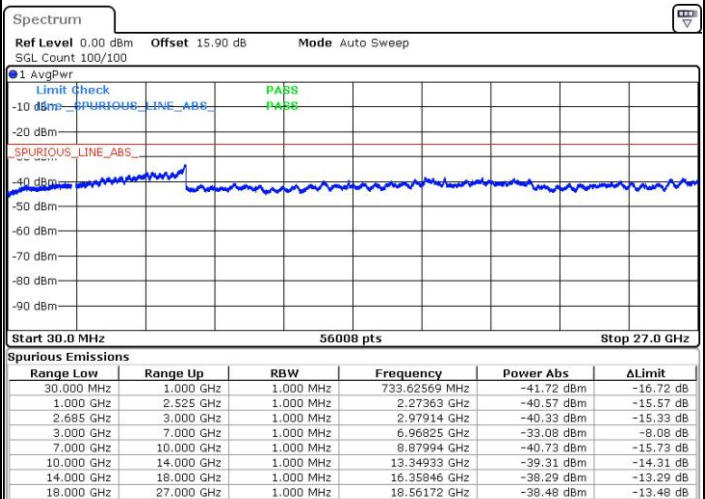
Date: 13.APR.2018 11:02:16

Highest Channel / QPSK



Date: 13.APR.2018 11:03:17

Highest Channel / 16QAM

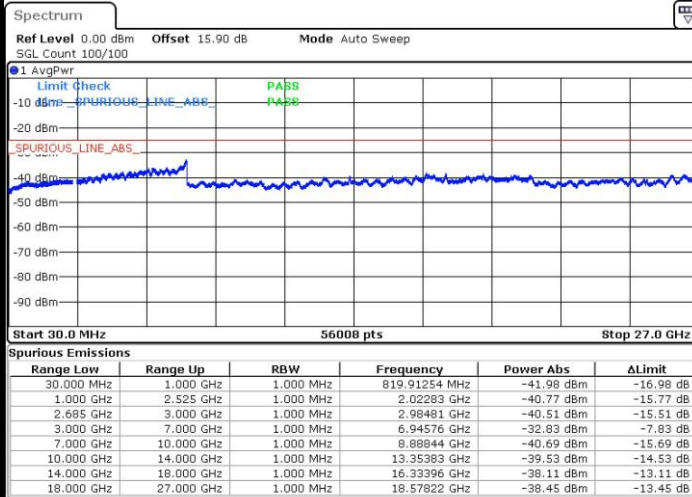


Date: 13.APR.2018 11:04:17



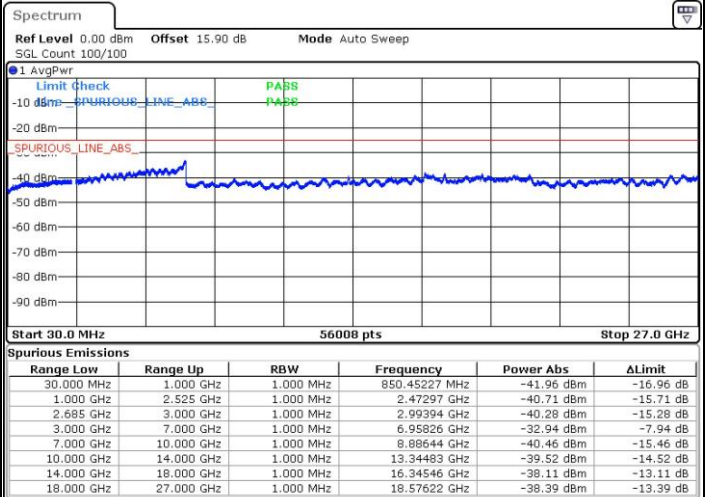
LTE Band 41 / 15MHz

Lowest Channel / QPSK



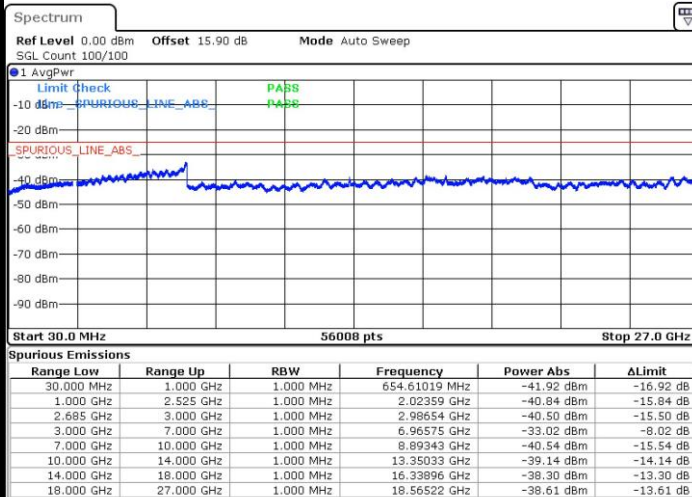
Date: 13.APR.2018 11:05:18

Lowest Channel / 16QAM



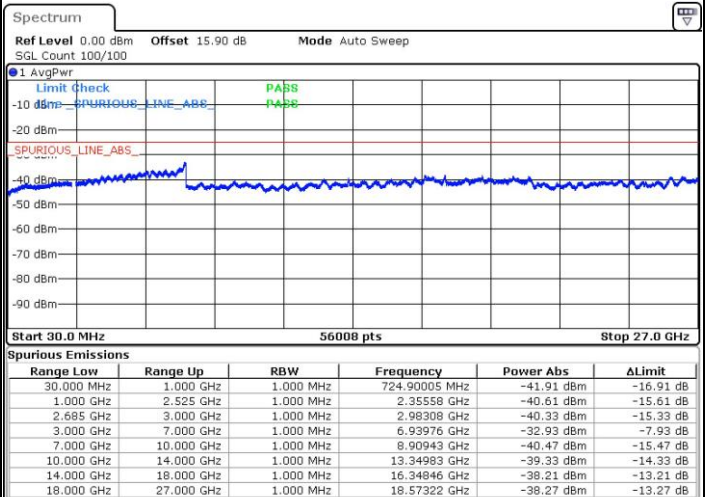
Date: 13.APR.2018 11:06:19

Middle Channel / QPSK



Date: 13.APR.2018 11:07:20

Middle Channel / 16QAM

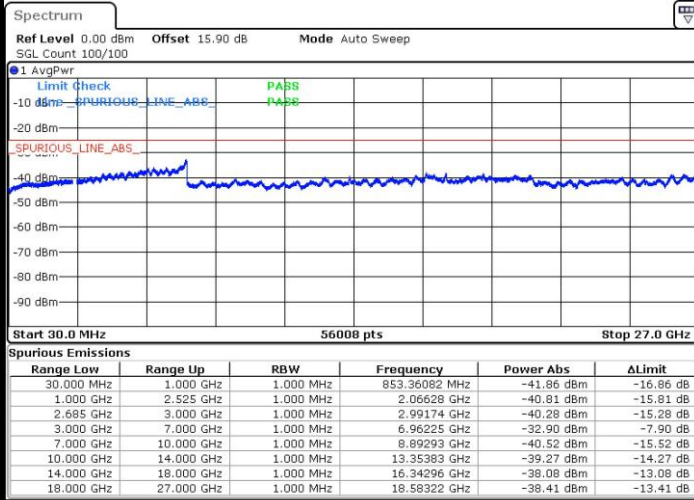


Date: 13.APR.2018 11:08:20



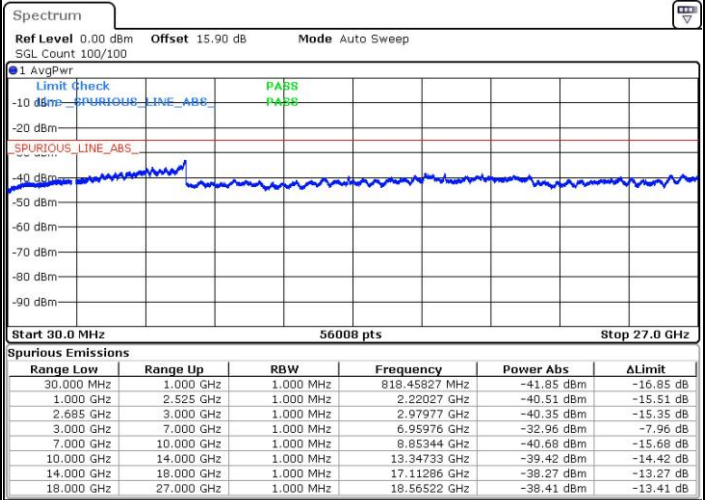
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 13.APR.2018 11:09:21

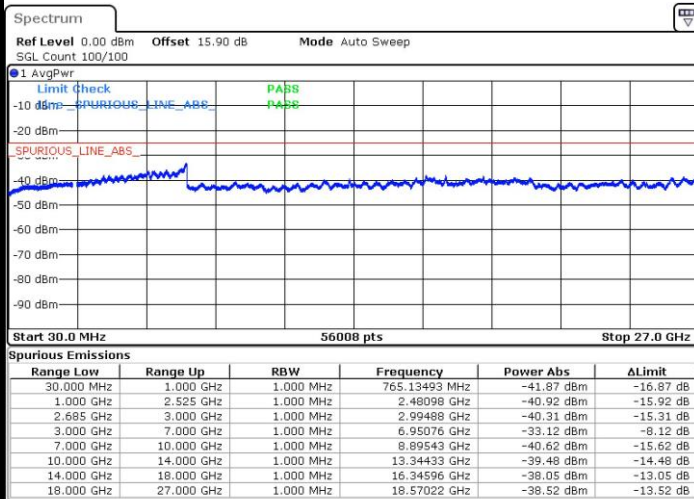
Highest Channel / 16QAM



Date: 13.APR.2018 11:10:22

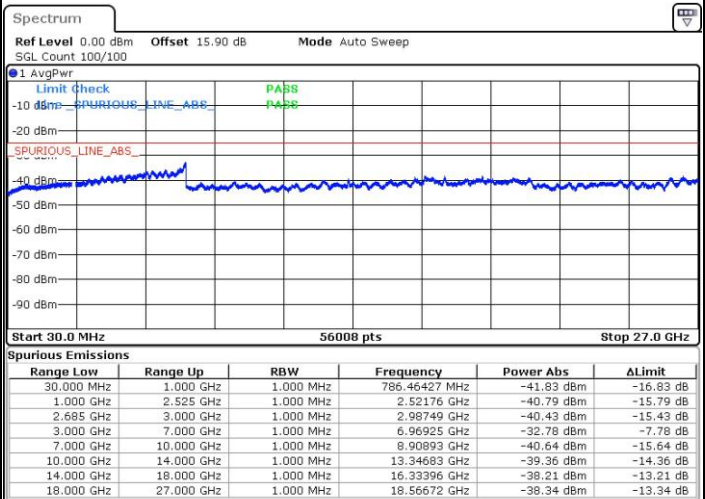
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 13.APR.2018 11:11:23

Lowest Channel / 16QAM

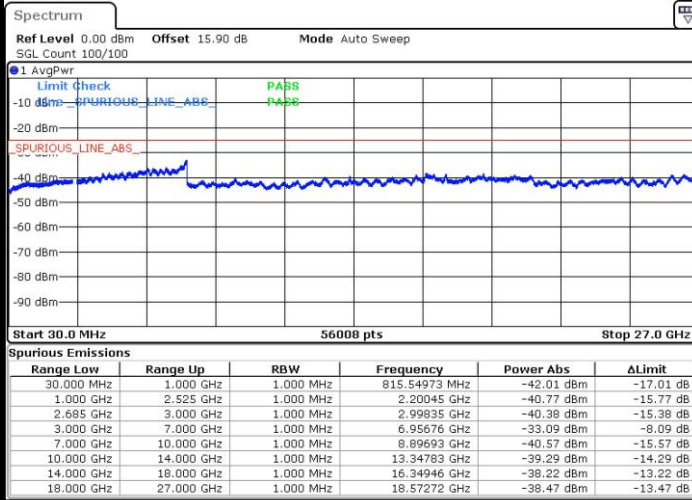


Date: 13.APR.2018 11:12:24



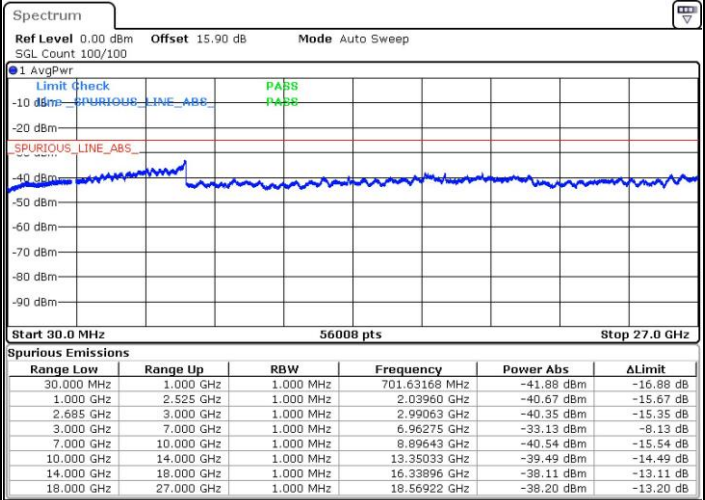
LTE Band 41 / 20MHz

Middle Channel / QPSK



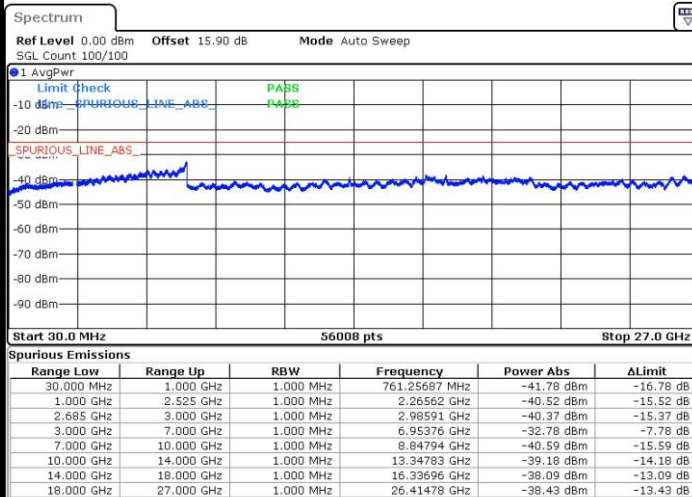
Date: 13.APR.2018 11:13:24

Middle Channel / 16QAM



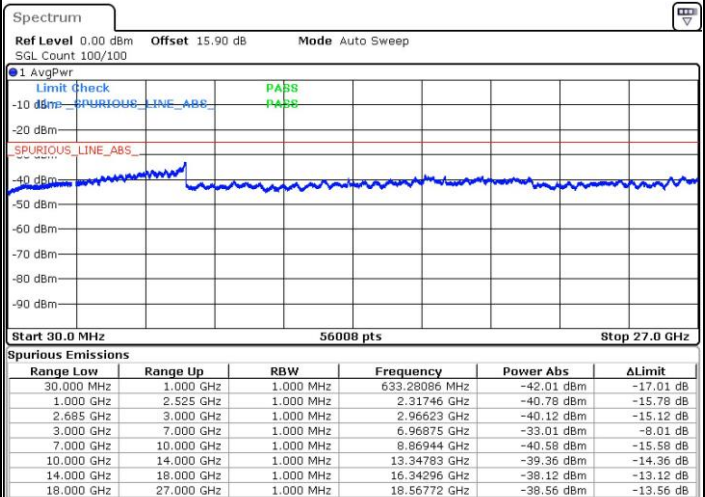
Date: 13.APR.2018 11:14:25

Highest Channel / QPSK



Date: 13.APR.2018 11:15:26

Highest Channel / 16QAM

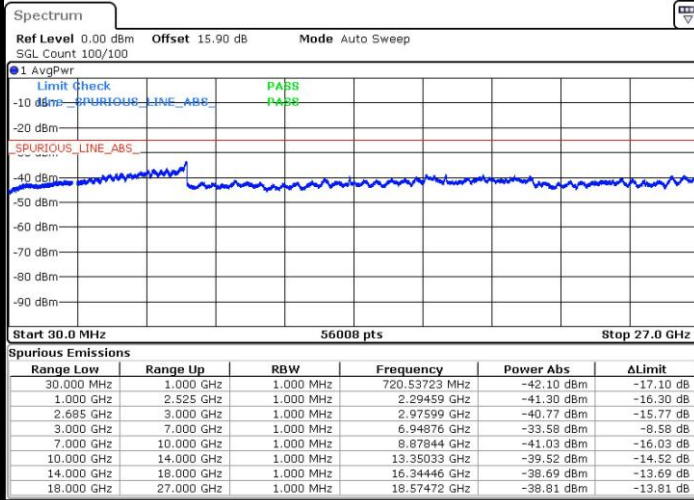


Date: 13.APR.2018 11:16:27



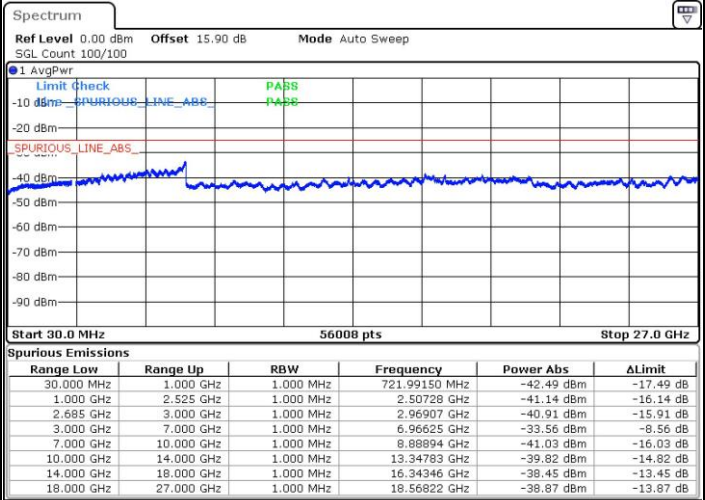
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



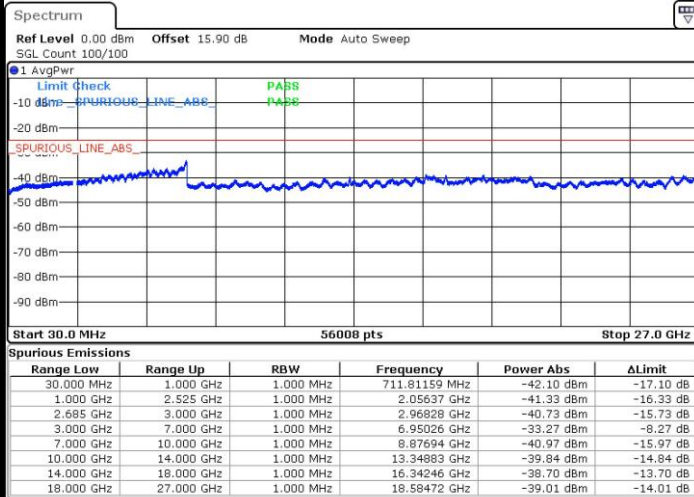
Date: 16.APR.2018 16:58:39

Middle Channel / 64QAM



Date: 16.APR.2018 16:59:40

Highest Channel / 64QAM

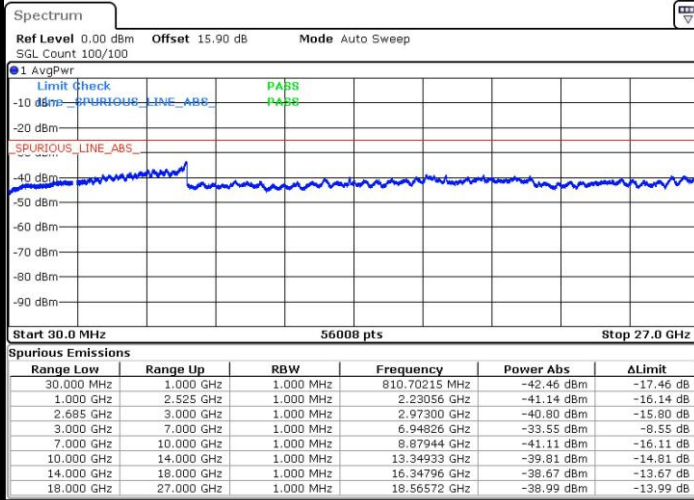


Date: 16.APR.2018 17:00:41



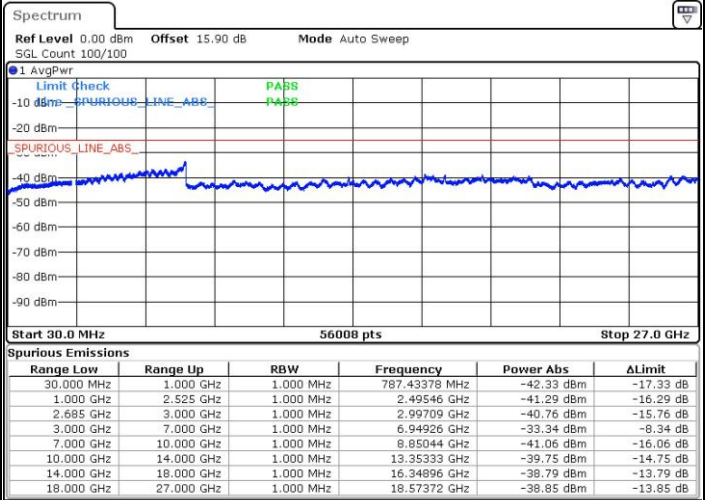
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



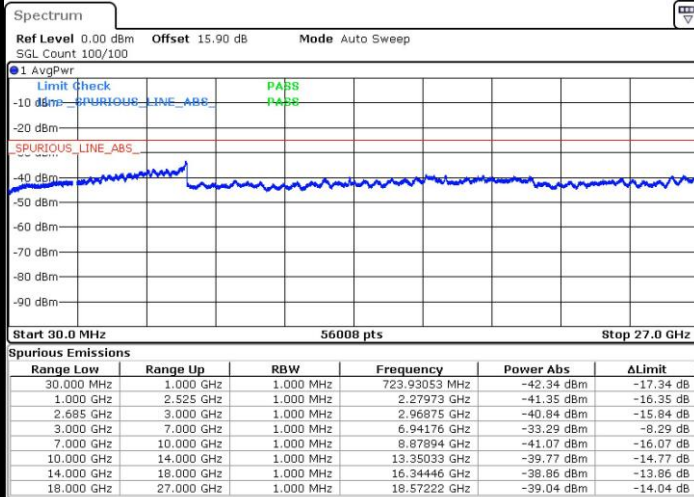
Date: 16.APR.2018 17:01:42

Middle Channel / 64QAM



Date: 16.APR.2018 17:02:42

Highest Channel / 64QAM

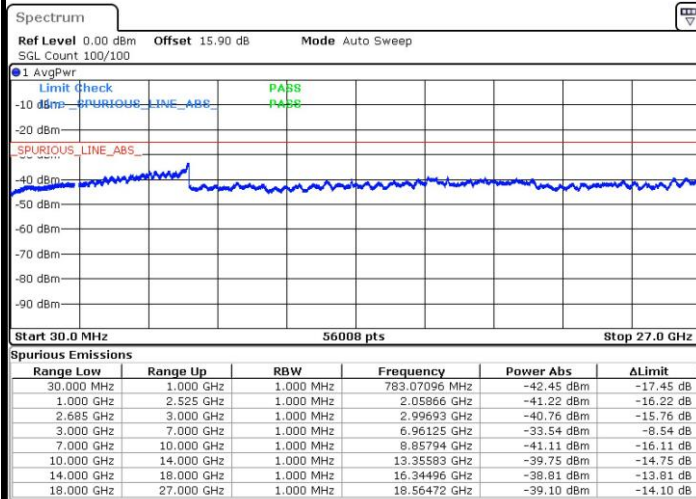


Date: 16.APR.2018 17:03:43



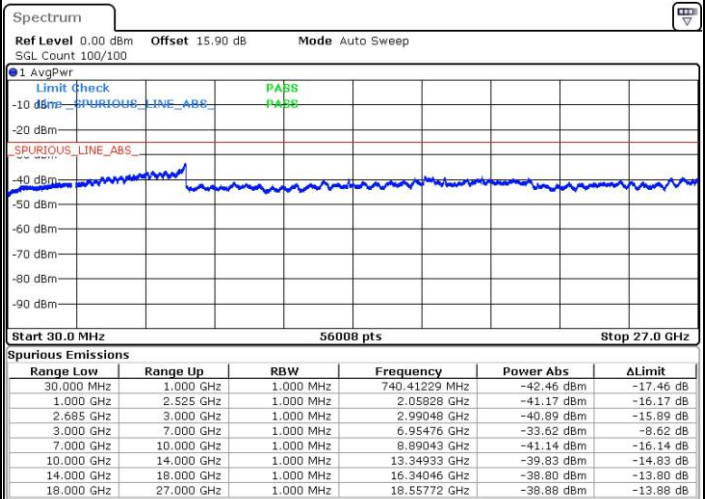
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



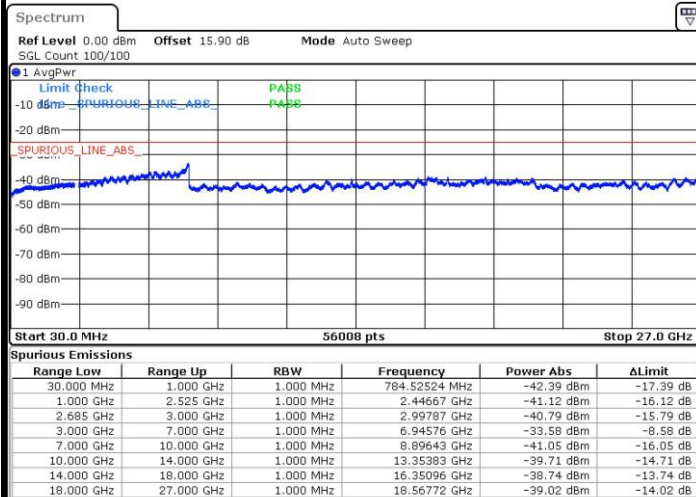
Date: 16.APR.2018 17:04:44

Middle Channel / 64QAM



Date: 16.APR.2018 17:05:44

Highest Channel / 64QAM

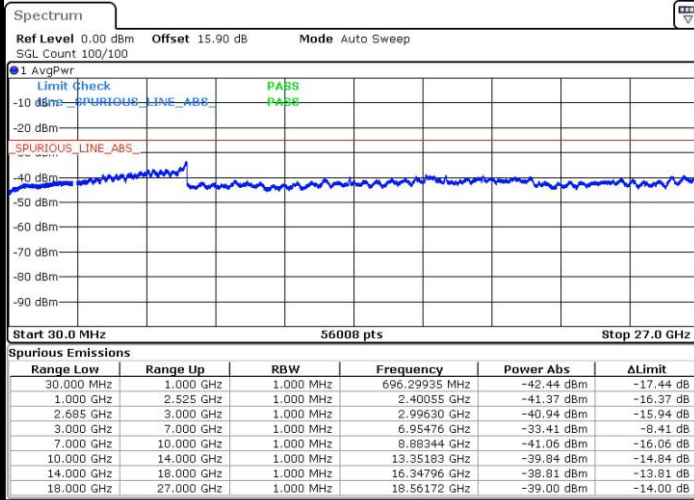


Date: 16.APR.2018 17:06:45



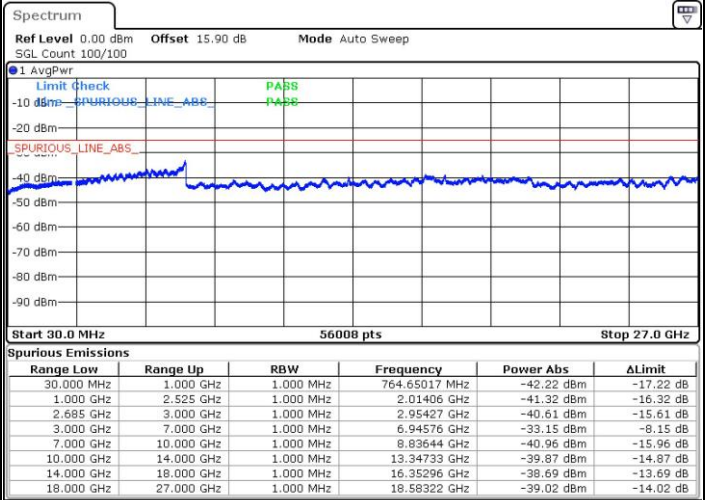
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



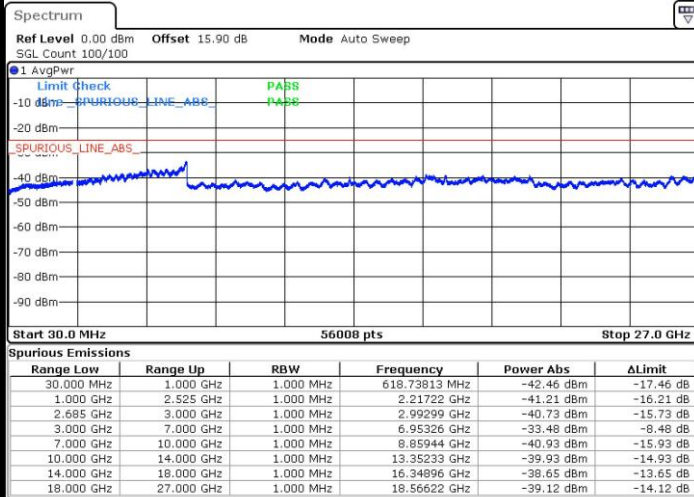
Date: 16.APR.2018 17:07:45

Middle Channel / 64QAM



Date: 16.APR.2018 17:08:46

Highest Channel / 64QAM



Date: 16.APR.2018 17:09:46

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.56	0.2270	22.66	0.1845
Middle		3	1	23.12	0.2051	22.22	0.1667
Highest		3	1	23.27	0.2123	22.37	0.1726
Lowest	16QAM	1	3	22.68	0.1854	21.78	0.1507
Middle		1	3	22.36	0.1722	21.46	0.1400
Highest		1	3	22.36	0.1722	21.46	0.1400
Lowest	64QAM	1	0	21.73	0.1489	20.83	0.1211
Middle		1	0	21.22	0.1324	20.32	0.1076
Highest		1	0	21.43	0.1390	20.53	0.1130
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.68	0.2333	22.78	0.1897
Middle		1	0	23.08	0.2032	22.18	0.1652
Highest		1	0	23.28	0.2128	22.38	0.1730
Lowest	16QAM	1	0	22.73	0.1875	21.83	0.1524
Middle		1	0	22.34	0.1714	21.44	0.1393
Highest		1	0	22.47	0.1766	21.57	0.1435
Lowest	64QAM	1	0	21.79	0.1510	20.89	0.1227
Middle		1	0	21.27	0.1340	20.37	0.1089
Highest		1	0	21.48	0.1406	20.58	0.1143
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.60	0.2291	22.70	0.1862
Middle		1	12	23.07	0.2028	22.17	0.1648
Highest		1	12	23.25	0.2113	22.35	0.1718
Lowest	16QAM	1	0	22.75	0.1884	21.85	0.1531
Middle		1	0	22.42	0.1746	21.52	0.1419
Highest		1	0	22.60	0.1820	21.70	0.1479
Lowest	64QAM	1	0	21.79	0.1510	20.89	0.1227
Middle		1	0	21.34	0.1361	20.44	0.1107
Highest		1	0	21.53	0.1422	20.63	0.1156
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.75	0.2371	22.85	0.1928
Middle		1	0	23.24	0.2109	22.34	0.1714
Highest		1	0	23.25	0.2113	22.35	0.1718
Lowest	16QAM	1	0	22.85	0.1928	21.95	0.1567
Middle		1	0	22.49	0.1774	21.59	0.1442
Highest		1	0	22.49	0.1774	21.59	0.1442
Lowest	64QAM	1	0	21.94	0.1563	21.04	0.1271
Middle		1	0	21.39	0.1377	20.49	0.1119
Highest		1	0	21.48	0.1406	20.58	0.1143
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.69	0.2339	22.79	0.1901
Middle		1	0	23.37	0.2173	22.47	0.1766
Highest		1	0	23.29	0.2133	22.39	0.1734
Lowest	16QAM	1	0	22.95	0.1972	22.05	0.1603
Middle		1	0	22.70	0.1862	21.80	0.1514
Highest		1	0	22.57	0.1807	21.67	0.1469
Lowest	64QAM	1	0	21.98	0.1578	21.08	0.1282
Middle		1	0	21.62	0.1452	20.72	0.1180
Highest		1	0	21.57	0.1435	20.67	0.1167
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.77	0.2382	22.87	0.1936
Middle		1	0	23.46	0.2218	22.56	0.1803
Highest		1	0	23.32	0.2148	22.42	0.1746
Lowest	16QAM	1	0	22.96	0.1977	22.06	0.1607
Middle		1	0	22.72	0.1871	21.82	0.1521
Highest		1	0	22.50	0.1778	21.60	0.1445
Lowest	64QAM	1	0	21.99	0.1581	21.09	0.1285
Middle		1	0	21.65	0.1462	20.75	0.1189
Highest		1	0	21.52	0.1419	20.62	0.1153
Limit	EIRP < 2W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	23.50	0.2239	17.05	0.0507
Middle		3	1	22.79	0.1901	16.34	0.0431
Highest		3	1	23.01	0.2000	16.56	0.0453
Lowest	16QAM	1	3	22.61	0.1824	16.16	0.0413
Middle		1	3	22.01	0.1589	15.56	0.0360
Highest		1	3	22.11	0.1626	15.66	0.0368
Lowest	64QAM	1	3	21.64	0.1459	15.19	0.0330
Middle		1	3	20.92	0.1236	14.47	0.0280
Highest		1	3	21.16	0.1306	14.71	0.0296
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.45	0.2213	17.00	0.0501
Middle		1	0	22.81	0.1910	16.36	0.0433
Highest		1	0	22.94	0.1968	16.49	0.0446
Lowest	16QAM	1	0	22.60	0.1820	16.15	0.0412
Middle		1	0	22.09	0.1618	15.64	0.0366
Highest		1	0	22.15	0.1641	15.70	0.0372
Lowest	64QAM	1	0	21.68	0.1472	15.23	0.0333
Middle		1	0	20.98	0.1253	14.53	0.0284
Highest		1	0	21.13	0.1297	14.68	0.0294
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.80	0.2399	17.35	0.0543
Middle		1	12	23.27	0.2123	16.82	0.0481
Highest		1	12	23.45	0.2213	17.00	0.0501
Lowest	16QAM	1	0	22.95	0.1972	16.50	0.0447
Middle		1	0	22.62	0.1828	16.17	0.0414
Highest		1	0	22.80	0.1905	16.35	0.0432
Lowest	64QAM	1	0	21.99	0.1581	15.54	0.0358
Middle		1	0	21.54	0.1426	15.09	0.0323
Highest		1	0	21.73	0.1489	15.28	0.0337
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.86	0.2432	17.41	0.0551
Middle		1	0	23.45	0.2213	17.00	0.0501
Highest		1	0	23.30	0.2138	16.85	0.0484
Lowest	16QAM	1	0	23.00	0.1995	16.55	0.0452
Middle		1	0	22.71	0.1866	16.26	0.0423
Highest		1	0	22.48	0.1770	16.03	0.0401
Lowest	64QAM	1	0	22.00	0.1585	15.55	0.0359
Middle		1	0	21.65	0.1462	15.20	0.0331
Highest		1	0	21.42	0.1387	14.97	0.0314
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -0.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	21.86	0.1535	21.46	0.1400
Middle		1	12	21.68	0.1472	21.28	0.1343
Highest		1	12	21.37	0.1371	20.97	0.1250
Lowest	16QAM	1	12	20.96	0.1247	20.56	0.1138
Middle		1	12	20.93	0.1239	20.53	0.1130
Highest		1	12	20.61	0.1151	20.21	0.1050
Lowest	64QAM	1	24	19.99	0.0998	19.59	0.0910
Middle		1	24	19.82	0.0959	19.42	0.0875
Highest		1	24	19.49	0.0889	19.09	0.0811
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -0.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	21.82	0.1521	21.42	0.1387
Middle		1	25	21.71	0.1483	21.31	0.1352
Highest		1	25	21.37	0.1371	20.97	0.1250
Lowest	16QAM	1	25	20.97	0.1250	20.57	0.1140
Middle		1	25	20.95	0.1245	20.55	0.1135
Highest		1	25	20.64	0.1159	20.24	0.1057
Lowest	64QAM	1	0	19.97	0.0993	19.57	0.0906
Middle		1	0	19.82	0.0959	19.42	0.0875
Highest		1	0	19.63	0.0918	19.23	0.0838
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -0.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.83	0.1524	21.43	0.1390
Middle		1	0	21.62	0.1452	21.22	0.1324
Highest		1	0	21.37	0.1371	20.97	0.1250
Lowest	16QAM	1	37	20.93	0.1239	20.53	0.1130
Middle		1	37	20.99	0.1256	20.59	0.1146
Highest		1	37	20.62	0.1153	20.22	0.1052
Lowest	64QAM	1	0	19.99	0.0998	19.59	0.0910
Middle		1	0	19.85	0.0966	19.45	0.0881
Highest		1	0	19.56	0.0904	19.16	0.0824
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -0.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	21.94	0.1563	21.54	0.1426
Middle		1	49	21.88	0.1542	21.48	0.1406
Highest		1	49	21.68	0.1472	21.28	0.1343
Lowest	16QAM	1	99	20.99	0.1256	20.59	0.1146
Middle		1	99	20.96	0.1247	20.56	0.1138
Highest		1	99	20.89	0.1227	20.49	0.1119
Lowest	64QAM	1	99	19.92	0.0982	19.52	0.0895
Middle		1	99	19.99	0.0998	19.59	0.0910
Highest		1	99	19.78	0.0951	19.38	0.0867
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.56	0.1803	21.56	0.1432
Middle		1	12	23.63	0.2307	22.63	0.1832
Highest		1	12	23.66	0.2323	22.66	0.1845
Lowest	16QAM	1	12	21.69	0.1476	20.69	0.1172
Middle		1	12	22.78	0.1897	21.78	0.1507
Highest		1	12	22.79	0.1901	21.79	0.1510
Lowest	64QAM	1	24	20.62	0.1153	19.62	0.0916
Middle		1	24	21.40	0.1380	20.40	0.1096
Highest		1	24	21.47	0.1403	20.47	0.1114
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.88	0.1941	21.88	0.1542
Middle		1	49	23.49	0.2234	22.49	0.1774
Highest		1	49	23.56	0.2270	22.56	0.1803
Lowest	16QAM	1	49	21.88	0.1542	20.88	0.1225
Middle		1	49	22.51	0.1782	21.51	0.1416
Highest		1	49	22.56	0.1803	21.56	0.1432
Lowest	64QAM	1	25	20.55	0.1135	19.55	0.0902
Middle		1	25	21.30	0.1349	20.30	0.1072
Highest		1	25	21.32	0.1355	20.32	0.1076
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.10	0.2042	22.10	0.1622
Middle		1	74	23.42	0.2198	22.42	0.1746
Highest		1	74	23.46	0.2218	22.46	0.1762
Lowest	16QAM	1	37	21.82	0.1521	20.82	0.1208
Middle		1	37	22.49	0.1774	21.49	0.1409
Highest		1	37	22.64	0.1837	21.64	0.1459
Lowest	64QAM	1	74	20.83	0.1211	19.83	0.0962
Middle		1	74	21.30	0.1349	20.30	0.1072
Highest		1	74	21.32	0.1355	20.32	0.1076
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	23.13	0.2056	22.13	0.1633
Middle		1	99	23.60	0.2291	22.60	0.1820
Highest		1	99	23.79	0.2393	22.79	0.1901
Lowest	16QAM	1	49	22.10	0.1622	21.10	0.1288
Middle		1	49	22.74	0.1879	21.74	0.1493
Highest		1	49	22.85	0.1928	21.85	0.1531
Lowest	64QAM	1	49	20.86	0.1219	19.86	0.0968
Middle		1	49	21.49	0.1409	20.49	0.1119
Highest		1	49	21.51	0.1416	20.51	0.1125
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission****Part 27M LTE Band 7**

LTE Band 7 / 20MHz / 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	5004	-54.90	-25	-29.90	-46.46	-64.64	2.36	12.10	H
	7500	-46.03	-25	-21.03	-43.72	-53.91	2.12	10.00	H
	10008	-45.42	-25	-20.42	-46.94	-55.41	1.81	11.80	H
	12504	-53.23	-25	-28.23	-52.51	-63.98	2.55	13.30	H
	17507	-52.58	-25	-27.58	-63.14	-62.89	2.33	12.64	H
	5004	-60.82	-25	-35.82	-52.4	-70.56	2.36	12.10	V
	7500	-43.77	-25	-18.77	-40.62	-51.65	2.12	10.00	V
	10008	-46.02	-25	-21.02	-46.43	-56.01	1.81	11.80	V
	12504	-53.93	-25	-28.93	-52.58	-64.68	2.55	13.30	V
	17507	-51.43	-25	-26.43	-63.27	-61.74	2.33	12.64	V
Middle	5052	-53.18	-25	-28.18	-44.73	-62.95	2.34	12.11	H
	7584	-50.64	-25	-25.64	-48.07	-58.83	2.11	10.30	H
	10104	-43.63	-25	-18.63	-44.87	-53.51	1.96	11.84	H
	12636	-52.91	-25	-27.91	-52.48	-63.51	2.54	13.14	H
	15161	-58.22	-25	-33.22	-61.05	-69.55	2.58	13.91	H
	17679.5	-52.40	-25	-27.40	-63.59	-61.10	2.46	11.16	H
									H
	5052	-58.04	-25	-33.04	-49.58	-67.81	2.34	12.11	V
	7584	-45.72	-25	-20.72	-42.65	-53.91	2.11	10.30	V
	10104	-43.74	-25	-18.74	-44.02	-53.62	1.96	11.84	V
	12636	-55.11	-25	-30.11	-53.93	-65.71	2.54	13.14	V
	15161	-55.29	-25	-30.29	-59.06	-66.62	2.58	13.91	V
	17679.5	-47.62	-25	-22.62	-61.57	-56.32	2.46	11.16	V
									V



Highest	5100	-57.56	-25	-32.56	-49.08	-67.36	2.32	12.12	H
	7656	-48.75	-25	-23.75	-45.97	-57.20	2.11	10.56	H
	10200	-48.32	-25	-23.32	-49.33	-58.08	2.12	11.88	H
	12756	-57.47	-25	-32.47	-57.27	-67.93	2.53	12.99	H
	15310.5	-57.05	-25	-32.05	-60.34	-69.20	2.50	14.65	H
	17863.5	-54.67	-25	-29.67	-66.56	-61.65	2.60	9.58	H
									H
	5100	-58.34	-25	-33.34	-49.82	-68.14	2.32	12.12	V
	7656	-43.61	-25	-18.61	-40.41	-52.06	2.11	10.56	V
	10200	-46.46	-25	-21.46	-46.63	-56.22	2.12	11.88	V
	12756	-58.41	-25	-33.41	-57.38	-68.87	2.53	12.99	V
	15310.5	-56.93	-25	-31.93	-60.52	-69.08	2.50	14.65	V
	17863.5	-53.95	-25	-28.95	-70.25	-60.93	2.60	9.58	V
									V

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

**Part 27M LTE Band 41**

LTE Band 41 / 20MHz / 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	5112	-60.67	-25	-35.67	-54.09	-67.97	2.40	9.70	H
	7668	-40.14	-25	-15.14	-38.7	-49.67	2.38	11.90	H
	10224	-48.74	-25	-23.74	-53.14	-58.33	2.69	12.29	H
	12780	-58.36	-25	-33.36	-63.12	-68.22	2.87	12.74	H
	15333.5	-56.98	-25	-31.98	-64.64	-67.31	3.74	14.07	H
	17898	-51.78	-25	-26.78	-62.99	-61.98	3.76	13.96	H
									H
	5112	-57.36	-25	-32.36	-50.73	-64.66	2.40	9.70	V
	7668	-45.61	-25	-20.61	-43.76	-55.14	2.38	11.90	V
	10224	-49.16	-25	-24.16	-52.75	-58.75	2.69	12.29	V
	12780	-57.34	-25	-32.34	-61.23	-67.2	2.87	12.74	V
	15333.5	-58.58	-25	-33.58	-66.38	-68.91	3.74	14.07	V
	17898	-50.24	-25	-25.24	-66.19	-60.44	3.76	13.96	V
									V
Middle	5196	-62.25	-25	-37.25	-55.9	-69.5	2.45	9.70	H
	7788	-47.53	-25	-22.53	-45.96	-57.17	2.34	11.97	H
	10380	-49.20	-25	-24.20	-53.49	-58.86	2.69	12.35	H
									H
									H
									H
									H
	5196	-58.69	-25	-33.69	-52.24	-65.94	2.45	9.70	V
	7788	-47.76	-25	-22.76	-45.78	-57.4	2.34	11.97	V
	10380	-48.76	-25	-23.76	-52.46	-58.42	2.69	12.35	V
									V
									V
									V
									V



Highest	5268	-60.98	-25	-35.98	-54.88	-68.19	2.49	9.70	H
	7908	-49.85	-25	-24.85	-49.58	-59.6	2.30	12.04	H
	10548	-53.07	-25	-28.07	-57.3	-62.79	2.69	12.41	H
	15816.5	-54.76	-25	-29.76	-63.08	-64.68	3.94	13.86	H
									H
									H
									H
	5268	-55.93	-25	-30.93	-49.83	-63.14	2.49	9.70	V
	7908	-49.97	-25	-24.97	-49.23	-59.72	2.30	12.04	V
	10548	-51.54	-25	-26.54	-55.35	-61.26	2.69	12.41	V
	15816.5	-57.75	-25	-32.75	-65.11	-67.67	3.94	13.86	V
									V
									V
									V

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

**Part 22H LTE Band 5**

LTE Band 5 / 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)
Lowest	1648	-59.69	-13	-46.69	-72.21	-65.08	1.23	8.76	H
	2472	-56.55	-13	-43.55	-71.88	-63.44	1.44	10.48	H
	3296	-59.60	-13	-46.60	-76.67	-67.54	1.70	11.79	H
									H
									H
									H
									H
	1648	-63.08	-13	-50.08	-73.31	-68.47	1.23	8.76	V
	2472	-56.38	-13	-43.38	-71.1	-63.27	1.44	10.48	V
	3296	-60.16	-13	-47.16	-76.64	-68.10	1.70	11.79	V
									V
									V
									V
									V
Middle	1664	-58.84	-13	-45.84	-71.6	-64.28	1.23	8.82	H
	2496	-53.13	-13	-40.13	-68.34	-60.04	1.44	10.50	H
	3328	-59.85	-13	-46.85	-76.79	-67.86	1.73	11.88	H
									H
									H
									H
									H
	1664	-63.68	-13	-50.68	-74.02	-69.12	1.23	8.82	V
	2496	-51.66	-13	-38.66	-66.36	-58.57	1.44	10.50	V
	3328	-60.31	-13	-47.31	-76.79	-68.32	1.73	11.88	V
									V
									V
									V
									V



Highest	1680	-60.98	-13	-47.98	-73.97	-66.48	1.24	8.88	H
	2520	-57.12	-13	-44.12	-72.21	-64.05	1.44	10.52	H
	3352	-59.69	-13	-46.69	-76.55	-67.75	1.75	11.96	H
									H
									H
									H
									H
	1680	-64.79	-13	-51.79	-75.24	-70.29	1.24	8.88	V
	2520	-57.17	-13	-44.17	-71.86	-64.10	1.44	10.52	V
	3352	-60.23	-13	-47.23	-76.63	-68.29	1.75	11.96	V
									V
									V
									V
									V

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

**Part 24E LTE Band 2**

LTE Band 2 / 20MHz / 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	3700	-59.09	-13	-46.09	-76.95	-69.40	1.97	12.28	H
	5555	-46.28	-13	-33.28	-67.56	-56.41	2.14	12.28	H
	7403	-47.79	-13	-34.79	-72.55	-55.79	2.17	10.17	H
	9258	-44.60	-13	-31.60	-75.27	-54.48	2.21	12.09	H
	11111.5	-42.57	-13	-29.57	-72.93	-51.23	2.58	11.23	H
									H
									H
	3700	-58.90	-13	-45.90	-76.16	-69.21	1.97	12.28	V
	5555	-43.83	-13	-30.83	-65.35	-53.96	2.14	12.28	V
	7403	-50.32	-13	-37.32	-74.14	-58.32	2.17	10.17	V
	9258	-46.96	-13	-33.96	-76.57	-56.84	2.21	12.09	V
	11111.5	-43.40	-13	-30.40	-73.34	-52.06	2.58	11.23	V
									V
									V
Middle	3742	-58.58	-13	-45.58	-76.29	-68.84	2.00	12.25	H
	5611	-44.76	-13	-31.76	-65.93	-54.99	2.13	12.36	H
	7487	-48.37	-13	-35.37	-73.79	-56.27	2.12	10.02	H
	9356	-44.87	-13	-31.87	-75.62	-54.67	2.18	11.97	H
	11225.5	-38.54	-13	-25.54	-69.05	-47.22	2.49	11.17	H
									H
									H
	3742	-58.99	-13	-45.99	-76.18	-69.25	2.00	12.25	V
	5611	-44.76	-13	-31.76	-66.12	-54.99	2.13	12.36	V
	7487	-51.51	-13	-38.51	-76.07	-59.41	2.12	10.02	V
	9356	-47.41	-13	-34.41	-77.05	-57.21	2.18	11.97	V
	11225.5	-38.36	-13	-25.36	-68.55	-47.04	2.49	11.17	V
									V
									V



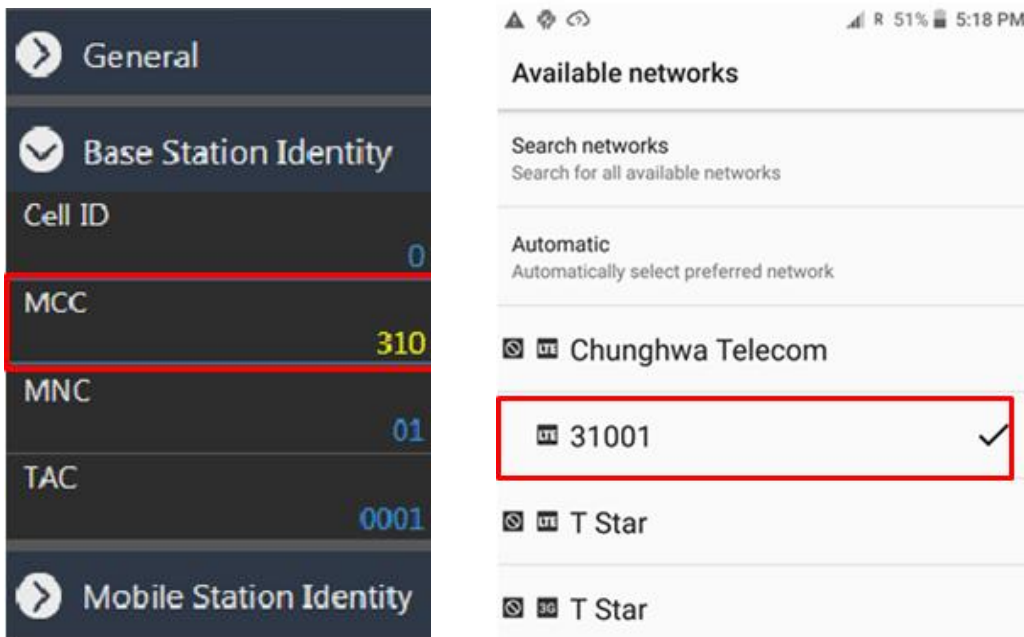
Highest	3784	-58.25	-13	-45.25	-75.85	-68.46	2.02	12.23	H
	5674	-41.57	-13	-28.57	-62.77	-51.90	2.11	12.44	H
	7564	-49.08	-13	-36.08	-74.47	-57.20	2.11	10.23	H
	9454	-45.49	-13	-32.49	-76.19	-55.20	2.14	11.86	H
	11349	-42.22	-13	-29.22	-72.91	-50.92	2.39	11.09	H
									H
									H
	3784	-58.68	-13	-45.68	-75.82	-68.89	2.02	12.23	V
	5674	-44.08	-13	-31.08	-65.44	-54.41	2.11	12.44	V
	7564	-51.07	-13	-38.07	-75.88	-59.19	2.11	10.23	V
	9454	-47.38	-13	-34.38	-76.77	-57.09	2.14	11.86	V
	11349	-42.17	-13	-29.17	-72.66	-50.87	2.39	11.09	V
									V
									V

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

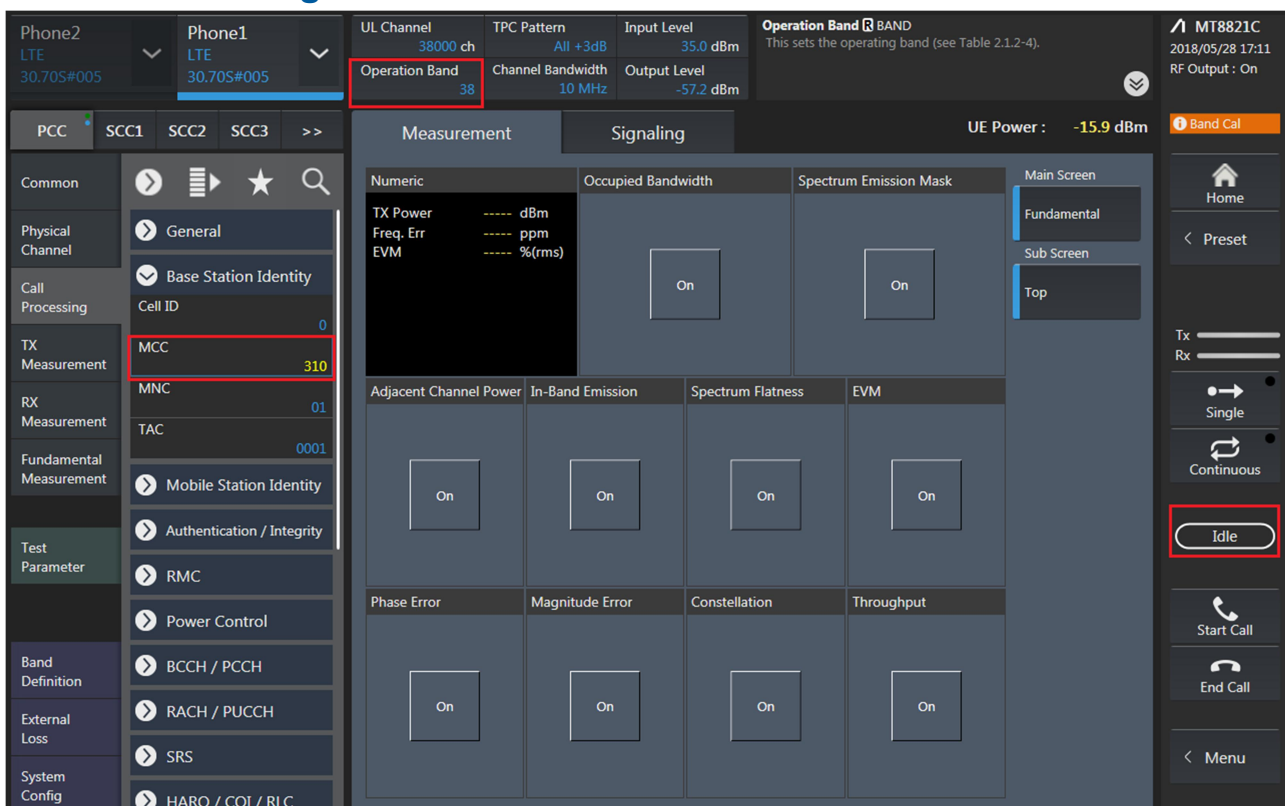
————THE END————

1. Base station configures US MCC, and sets B38 or B40

- Base station set US MCC & Sample registration information



2. UE cannot register B38





Verification and validation of Mobile Country Code

3. Base station configures US MCC, and sets other bands, UE can register, and call box show UE capability does not have B38/B40

LTE

Access Stratum Release: Rel11

UE Category: 4

Supported Band: 1,2,3,5,7,8,20,28,39,41

Band Combinations

DL CA Config	UL CA Config
--------------	--------------

4. Base station configures non-US MCC

Base Station Identity

Cell ID 0

MCC 206

MNC 02

TAC 0001

Mobile Station Identity



Verification and validation of Mobile Country Code

UE registration on, and call box show UE capability does have B38/B40

The screenshot shows the SPORTON LAB. software interface. The 'UE Capability Information Viewer' dialog is open, displaying the following information:

- Access Stratum Release: Rel11
- UE Category: 4,6,9,11
- Supported Band: 1,2,3,5,7,8,20,28,38,39,40,41
- Band Combinations table:

DL CA Config	UL CA Config
20A-1A	20A
1A-20A	1A
7A-1A	7A
1A-7A	1A
3A-1A	3A
1A-3A	1A

The 'Connected' status is highlighted in the bottom right corner of the interface.

Access Stratum Release: Rel11

UE Category: 4,6,9,11

Supported Band: 1,2,3,5,7,8,20,28,38,39,40,41

Band Combinations

DL CA Config	UL CA Config
20A-1A	20A
1A-20A	1A
7A-1A	7A
1A-7A	1A
3A-1A	3A
1A-3A	1A