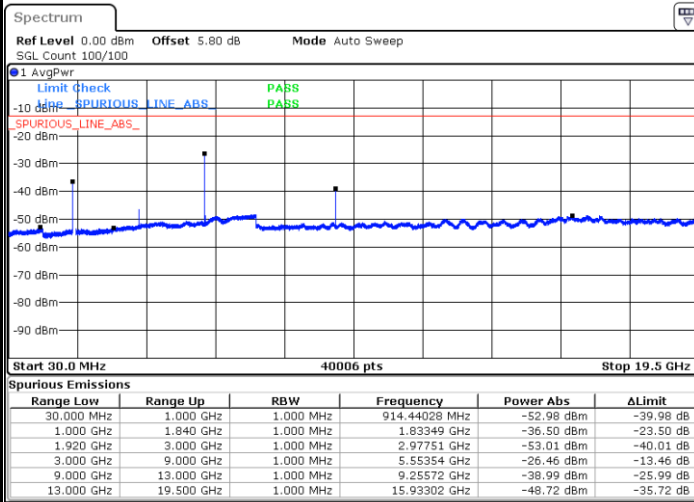




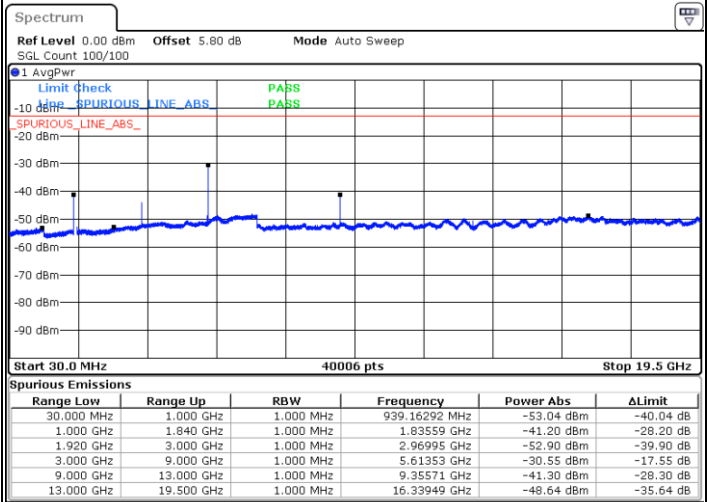
LTE Band 25 / 20MHz

Lowest Channel / 64QAM



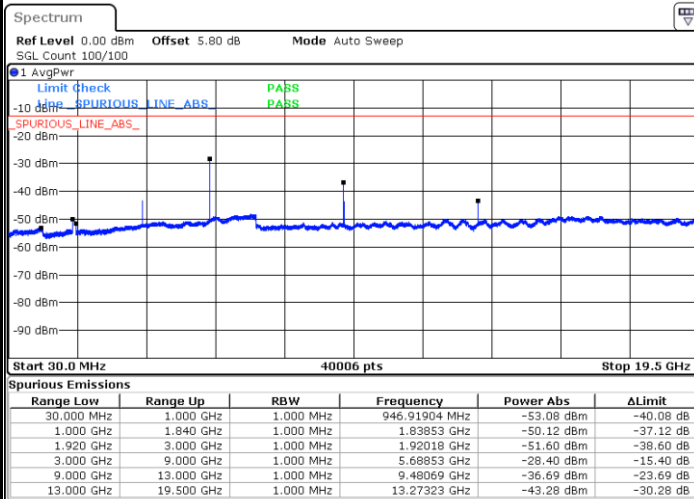
Date: 4 DEC. 2019 17:48:03

Middle Channel / 64QAM



Date: 4 DEC. 2019 17:52:31

Highest Channel / 64QAM



Date: 4 DEC. 2019 17:57:01



A.1.8 Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =120 V. ; Battery End Point (BEP) =90 V. ; Maximum Voltage =264 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =120 V. ; Battery End Point (BEP) =90 V. ; Maximum Voltage =264 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =120 V. ; Battery End Point (BEP) =90 V. ; Maximum Voltage =264 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



A.2 MIMO Antenna 1

A.2.1 Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	14.18	16.18	16.18
20	1	99		16.52	16.15	16.15
20	18	0		14.21	16.15	16.44
20	18	82		16.11	15.65	15.48
20	100	0		15.70	16.02	16.01
20	1	0	16-QAM	13.98	16.02	16.03
20	1	99		16.22	16.04	15.92
20	18	0		14.15	16.11	16.38
20	18	82		16.08	15.62	15.33
20	100	0		15.71	16.03	15.88
20	1	0	64-QAM	14.02	16.01	16.02
20	1	99		16.52	16.05	16.01
20	18	0		14.18	16.11	16.42
20	18	82		16.05	15.62	15.35
20	100	0		15.63	16.01	15.89
15	1	0	QPSK	15.22	16.77	16.48
15	1	74		16.12	16.12	15.95
15	16	0		13.95	16.32	16.11
15	16	59		16.18	16.12	15.98
15	75	0		14.88	16.08	15.75
15	1	0	16-QAM	14.11	16.45	16.22
15	1	74		15.83	16.11	15.75
15	16	0		13.72	16.31	16.18
15	16	59		15.62	16.15	15.89
15	75	0		14.96	16.09	15.75
15	1	0	64-QAM	14.21	16.11	16.52
15	1	74		16.02	16.08	15.89
15	16	0		13.75	13.38	16.11
15	16	59		15.62	15.45	15.82
15	75	0		14.88	14.78	15.71



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	13.82	16.01	15.88
10	1	49		16.01	16.02	15.89
10	12	0		13.85	16.22	16.01
10	12	38		15.71	16.11	15.61
10	50	0		15.01	16.03	15.82
10	1	0	16-QAM	13.72	16.71	15.68
10	1	49		15.81	16.22	15.67
10	12	0		13.82	16.25	15.92
10	12	38		15.65	16.11	15.52
10	50	0		14.96	16.08	15.71
10	1	0	64-QAM	13.89	16.68	15.75
10	1	49		15.95	16.15	15.88
10	12	0		13.88	16.23	15.85
10	12	38		15.65	16.15	15.42
10	50	0		14.96	16.03	15.71
5	1	0	QPSK	13.68	16.22	15.71
5	1	24		15.32	15.02	15.22
5	8	0		13.88	16.55	16.01
5	8	17		14.82	15.45	15.35
5	25	0		13.02	15.88	15.45
5	1	0	16-QAM	13.48	15.92	15.65
5	1	24		15.28	14.86	15.02
5	8	0		13.82	16.61	15.88
5	8	17		14.81	15.49	15.33
5	25	0		14.05	15.82	15.42
5	1	0	64-QAM	13.79	16.02	15.68
5	1	24		15.22	15.03	15.15
5	8	0		13.85	16.55	15.98
5	8	17		14.85	15.45	15.34
5	25	0		14.01	15.78	15.45



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	14.50	16.70	15.22
3	1	14		14.25	15.75	16.05
3	15	0		14.29	16.11	15.45
3	1	0	16-QAM	15.48	16.49	14.85
3	1	14		14.18	15.55	14.98
3	15	0		14.29	16.18	15.33
3	1	0	64-QAM	14.43	16.67	15.18
3	1	14		14.22	15.75	16.05
3	15	0		14.25	16.11	15.42
1.4	1	0	QPSK	14.02	16.71	15.88
1.4	1	5		14.12	16.35	15.85
1.4	6	0		14.05	16.44	15.75
1.4	1	0	16-QAM	14.01	15.91	15.48
1.4	1	5		14.21	16.18	15.73
1.4	6	0		14.02	16.05	15.68
1.4	1	0	64-QAM	14.72	16.05	15.81
1.4	1	5		14.22	16.20	15.82
1.4	6	0		13.92	16.11	15.68



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	14.22	16.23	16.27
20	1	99		16.56	16.22	16.26
20	18	0		14.28	16.32	16.54
20	18	82		16.19	15.71	15.57
20	100	0		15.76	16.11	16.05
20	1	0	16-QAM	14.09	16.14	16.12
20	1	99		16.35	16.17	16.03
20	18	0		14.28	16.26	16.53
20	18	82		16.21	15.73	15.56
20	100	0		15.73	16.12	16.00
20	1	0	64-QAM	14.18	16.16	16.23
20	1	99		16.61	16.23	16.22
20	18	0		14.31	16.31	16.53
20	18	82		16.18	15.77	15.56
20	100	0		15.75	16.13	16.03
15	1	0	QPSK	14.29	16.80	16.57
15	1	74		16.21	16.22	16.03
15	16	0		14.01	16.43	16.24
15	16	59		16.23	16.21	16.03
15	75	0		15.01	16.17	15.82
15	1	0	16-QAM	14.23	16.57	16.32
15	1	74		15.96	16.21	15.82
15	16	0		13.89	16.42	16.25
15	16	59		15.73	16.23	16.02
15	75	0		15.02	16.17	15.81
15	1	0	64-QAM	14.32	16.23	16.65
15	1	74		16.12	16.22	16.01
15	16	0		13.86	13.52	16.22
15	16	59		15.75	15.65	15.96
15	75	0		15.01	14.93	15.81



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	13.86	16.06	15.97
10	1	49		16.05	16.12	15.99
10	12	0		13.96	16.42	16.05
10	12	38		15.75	16.19	15.65
10	50	0		15.06	16.15	15.86
10	1	0	16-QAM	13.82	16.82	15.76
10	1	49		15.92	16.36	15.82
10	12	0		13.97	16.45	16.06
10	12	38		15.75	16.23	15.62
10	50	0		15.06	16.23	15.83
10	1	0	64-QAM	13.96	16.78	15.91
10	1	49		16.02	16.25	16.00
10	12	0		13.96	16.46	16.01
10	12	38		15.71	16.25	15.58
10	50	0		15.06	16.16	15.82
5	1	0	QPSK	13.73	16.23	15.85
5	1	24		15.38	15.09	15.36
5	8	0		13.93	16.68	16.05
5	8	17		14.92	15.56	15.48
5	25	0		13.13	15.96	15.62
5	1	0	16-QAM	13.53	16.03	15.72
5	1	24		15.38	14.96	15.15
5	8	0		13.91	16.69	16.00
5	8	17		14.91	15.56	15.41
5	25	0		14.16	15.96	15.60
5	1	0	64-QAM	13.79	16.13	15.83
5	1	24		15.39	15.16	15.28
5	8	0		13.96	16.69	16.08
5	8	17		14.93	15.63	15.47
5	25	0		14.10	15.92	15.56



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	14.55	16.76	15.31
3	1	14		14.38	15.86	16.18
3	15	0		14.41	16.20	15.56
3	1	0	16-QAM	14.56	16.57	14.96
3	1	14		14.31	15.62	15.11
3	15	0		14.43	16.22	15.55
3	1	0	64-QAM	14.53	16.76	15.26
3	1	14		14.36	15.87	16.14
3	15	0		14.45	16.22	15.52
1.4	1	0	QPSK	14.11	16.74	15.92
1.4	1	5		14.23	16.42	15.95
1.4	6	0		14.10	16.56	15.86
1.4	1	0	16-QAM	14.17	15.96	15.58
1.4	1	5		14.26	16.23	15.86
1.4	6	0		14.12	16.12	15.78
1.4	1	0	64-QAM	14.82	16.15	15.86
1.4	1	5		14.32	16.30	15.93
1.4	6	0		14.06	16.16	15.78



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	12.94	14.35	14.21
20	1	99		14.11	14.33	14.18
20	18	0		13.02	14.06	14.29
20	18	82		14.08	14.11	14.11
20	100	0		14.11	13.86	14.31
20	1	0	16-QAM	12.89	14.03	14.25
20	1	99		14.07	14.28	14.15
20	18	0		13.08	14.08	14.27
20	18	82		14.11	14.16	14.14
20	100	0		14.05	13.82	14.34
20	1	0	64-QAM	12.78	13.87	14.18
20	1	99		14.11	14.12	14.05
20	18	0		13.02	14.22	14.15
20	18	82		14.03	14.05	14.08
20	100	0		14.14	13.76	14.22
15	1	0	QPSK	13.18	14.15	14.46
15	1	74		14.59	14.03	14.33
15	16	0		12.57	13.55	13.89
15	16	59		14.08	14.07	14.28
15	75	0		13.86	13.94	14.07
15	1	0	16-QAM	13.14	14.11	14.42
15	1	74		14.52	14.08	14.31
15	16	0		12.51	13.51	13.82
15	16	59		14.02	14.03	14.24
15	75	0		13.84	13.91	14.01
15	1	0	64-QAM	13.22	14.19	14.34
15	1	74		14.42	14.15	14.44
15	16	0		12.39	13.42	13.75
15	16	59		14.22	14.12	14.18
15	75	0		13.77	13.85	14.12



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	12.58	14.05	14.44
10	1	49		14.35	14.22	14.23
10	12	0		12.43	13.98	14.15
10	12	38		14.01	14.04	14.16
10	50	0		13.55	13.84	14.33
10	1	0	16-QAM	12.54	14.01	14.41
10	1	49		14.31	14.25	14.27
10	12	0		12.47	13.92	14.18
10	12	38		14.05	14.06	14.19
10	50	0		13.53	13.85	14.35
10	1	0	64-QAM	12.48	14.09	14.33
10	1	49		14.25	14.33	14.18
10	12	0		12.33	13.87	14.05
10	12	38		14.14	14.11	14.08
10	50	0		13.68	13.73	14.29
5	1	0	QPSK	12.15	13.38	13.85
5	1	24		13.02	13.12	13.55
5	8	0		12.54	13.85	14.22
5	8	17		12.99	13.51	13.78
5	25	0		12.52	13.09	14.03
5	1	0	16-QAM	12.11	13.32	13.81
5	1	24		13.04	13.11	13.52
5	8	0		12.52	13.84	14.20
5	8	17		12.96	13.44	13.74
5	25	0		12.50	13.02	14.08
5	1	0	64-QAM	12.05	13.28	13.77
5	1	24		13.17	13.04	13.45
5	8	0		12.46	13.77	14.15
5	8	17		12.87	13.38	13.62
5	25	0		12.38	13.16	14.15



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	12.04	13.45	14.10
3	1	14		12.47	13.48	13.99
3	15	0		12.09	13.52	14.02
3	1	0	16-QAM	12.05	13.41	14.15
3	1	14		12.44	13.42	13.93
3	15	0		12.03	13.56	14.04
3	1	0	64-QAM	11.88	13.38	14.08
3	1	14		12.33	13.34	13.86
3	15	0		12.13	13.44	13.94
1.4	1	0	QPSK	12.11	13.55	13.98
1.4	1	5		12.14	13.44	13.91
1.4	6	0		12.08	13.47	13.89
1.4	1	0	16-QAM	12.14	13.51	13.99
1.4	1	5		12.16	13.40	13.94
1.4	6	0		12.03	13.43	13.83
1.4	1	0	64-QAM	12.07	13.44	13.86
1.4	1	5		12.09	13.32	13.83
1.4	6	0		11.95	13.31	13.77



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	13.69	14.52	13.58
20	1	99		13.85	14.39	13.62
20	18	0		13.86	14.46	13.58
20	18	82		13.62	14.35	13.65
20	100	0		13.53	14.08	13.75
20	1	0	16-QAM	13.39	14.33	13.65
20	1	99		13.66	14.31	13.21
20	18	0		13.65	14.39	13.33
20	18	82		13.58	14.15	13.15
20	100	0		13.62	14.42	13.59
20	1	0	64-QAM	13.53	14.52	13.69
20	1	99		13.88	14.36	13.25
20	18	0		13.63	14.36	13.33
20	18	82		13.56	14.17	13.16
20	100	0		13.49	14.06	13.55
15	1	0	QPSK	13.36	14.32	14.68
15	1	74		13.96	14.36	13.66
15	16	0		13.08	13.95	13.54
15	16	59		13.86	14.56	13.36
15	75	0		13.72	14.13	14.32
15	1	0	16-QAM	13.25	14.35	13.67
15	1	74		13.56	14.39	13.31
15	16	0		13.06	14.21	13.12
15	16	59		13.85	14.36	13.21
15	75	0		13.86	14.06	13.65
15	1	0	64-QAM	13.32	14.23	13.38
15	1	74		13.61	13.28	13.36
15	16	0		13.26	13.91	13.09
15	16	59		13.80	14.36	13.52
15	75	0		13.65	14.03	13.59



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	13.56	14.43	13.96
10	1	49		13.57	14.32	13.32
10	12	0		14.36	14.25	13.81
10	12	38		13.57	14.36	13.22
10	50	0		13.81	14.17	13.81
10	1	0	16-QAM	13.39	14.36	13.59
10	1	49		13.63	14.13	13.06
10	12	0		13.26	14.28	13.72
10	12	38		13.52	14.12	13.22
10	50	0		13.73	14.09	13.73
10	1	0	64-QAM	13.38	14.36	13.81
10	1	49		13.47	14.26	13.22
10	12	0		13.26	14.18	13.69
10	12	38		13.26	14.13	13.63
10	50	0		13.75	14.09	13.72
5	1	0	QPSK	12.96	14.26	13.56
5	1	24		13.89	14.28	13.53
5	8	0		13.99	14.56	14.03
5	8	17		13.91	14.08	13.75
5	25	0		13.76	14.13	13.82
5	1	0	16-QAM	13.65	14.22	13.55
5	1	24		13.96	13.93	13.45
5	8	0		13.92	14.52	14.06
5	8	17		13.86	13.95	13.35
5	25	0		13.63	14.02	13.52
5	1	0	64-QAM	13.62	14.22	13.81
5	1	24		13.96	13.82	13.20
5	8	0		13.85	14.52	13.85
5	8	17		13.82	13.86	13.26
5	25	0		13.63	13.96	13.35



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	12.84	14.22	14.11
20	1	99		14.01	14.25	14.05
20	18	0		12.88	13.98	14.16
20	18	82		14.01	14.02	14.02
20	100	0		14.02	13.72	14.13
20	1	0	16-QAM	12.77	13.93	14.11
20	1	99		13.95	14.11	14.02
20	18	0		12.95	13.88	14.11
20	18	82		14.01	14.06	14.03
20	100	0		13.95	13.71	14.22
20	1	0	64-QAM	12.68	13.75	14.02
20	1	99		14.02	14.02	13.96
20	18	0		12.88	14.11	14.02
20	18	82		13.89	13.98	13.92
20	100	0		14.02	13.72	14.11
15	1	0	QPSK	13.03	14.02	14.25
15	1	74		14.45	13.93	14.11
15	16	0		12.45	13.44	13.78
15	16	59		13.98	13.95	14.11
15	75	0		13.75	13.82	13.95
15	1	0	16-QAM	13.02	14.02	14.22
15	1	74		14.42	13.95	14.11
15	16	0		12.35	13.42	13.71
15	16	59		13.88	13.88	14.15
15	75	0		13.72	13.77	13.88
15	1	0	64-QAM	13.11	14.05	14.22
15	1	74		14.22	14.01	14.23
15	16	0		12.22	13.22	13.65
15	16	59		14.11	14.02	14.02
15	75	0		13.66	13.72	13.98



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	12.45	13.93	14.33
10	1	49		14.22	14.11	14.11
10	12	0		12.32	13.82	14.02
10	12	38		13.95	13.95	14.03
10	50	0		13.44	13.74	14.22
10	1	0	16-QAM	12.44	13.82	14.22
10	1	49		14.15	14.12	14.15
10	12	0		12.42	13.82	14.02
10	12	38		13.95	13.95	14.03
10	50	0		13.42	13.75	14.25
10	1	0	64-QAM	12.28	13.98	14.22
10	1	49		14.12	14.19	14.05
10	12	0		12.11	13.75	13.95
10	12	38		14.02	14.01	13.96
10	50	0		13.55	13.62	14.18
5	1	0	QPSK	12.05	13.25	13.75
5	1	24		12.88	13.01	13.44
5	8	0		12.34	13.75	14.11
5	8	17		12.88	13.41	13.67
5	25	0		12.42	13.01	13.95
5	1	0	16-QAM	12.01	13.11	13.65
5	1	24		12.89	13.01	13.45
5	8	0		12.42	13.75	14.02
5	8	17		12.85	13.33	13.61
5	25	0		12.37	12.95	13.98
5	1	0	64-QAM	11.98	13.11	13.62
5	1	24		13.01	12.96	13.34
5	8	0		12.28	13.66	14.11
5	8	17		12.68	13.22	13.55
5	25	0		12.28	13.08	14.08



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	11.96	13.33	14.01
3	1	14		12.34	13.32	13.88
3	15	0		12.01	13.42	13.95
3	1	0	16-QAM	11.95	13.23	14.02
3	1	14		12.22	13.24	13.85
3	15	0		11.91	13.45	13.96
3	1	0	64-QAM	11.77	13.22	14.01
3	1	14		12.15	13.24	13.75
3	15	0		12.05	13.33	13.78
1.4	1	0	QPSK	12.01	13.44	13.88
1.4	1	5		12.04	13.33	13.78
1.4	6	0		11.95	13.22	13.77
1.4	1	0	16-QAM	12.04	13.42	13.88
1.4	1	5		12.02	13.22	13.85
1.4	6	0		11.92	13.33	13.78
1.4	1	0	64-QAM	11.85	13.22	13.72
1.4	1	5		11.88	13.21	13.71
1.4	6	0		11.85	13.18	13.70



A.2.2 Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.80	5.10	6.17	6.00	PASS
Middle CH	5.65	5.45	6.06	6.43	
Highest CH	6.58	4.99	6.46	6.14	
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	6.81	6.09	-	-	PASS
Middle CH	6.20	6.49	-	-	
Highest CH	6.87	6.17	-	-	

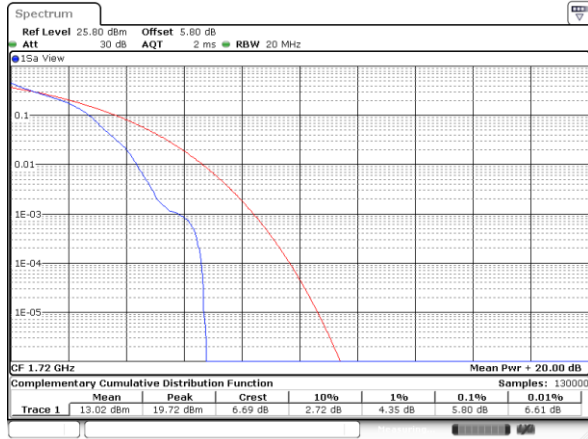
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.04	5.16	5.36	5.91	PASS
Middle CH	4.41	4.75	5.57	5.48	
Highest CH	5.88	5.22	5.74	6.09	
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.86	5.97	-	-	PASS
Middle CH	5.10	5.48	-	-	
Highest CH	5.71	6.14	-	-	

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.09	5.19	6.52	6.00	PASS
Middle CH	5.04	5.30	5.59	6.26	
Highest CH	5.13	5.36	5.80	6.20	
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	6.23	6.00	-	-	PASS
Middle CH	5.91	6.12	-	-	
Highest CH	5.80	6.23	-	-	

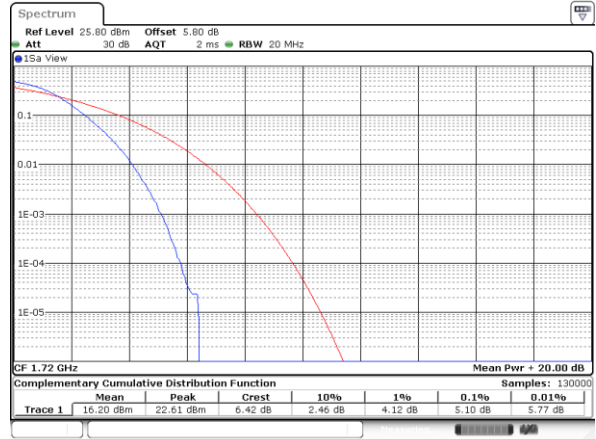


LTE Band 4 / 20MHz / QPSK

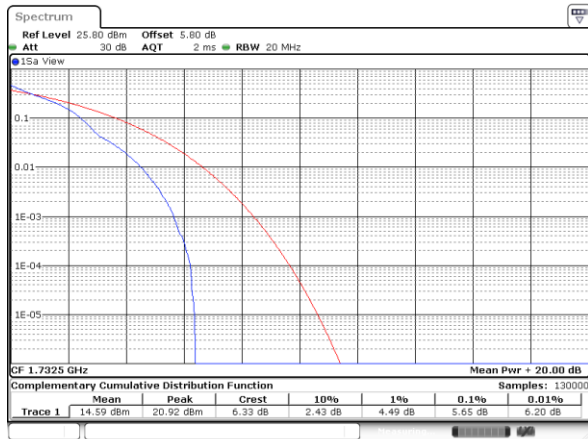
Lowest Channel / 1RB



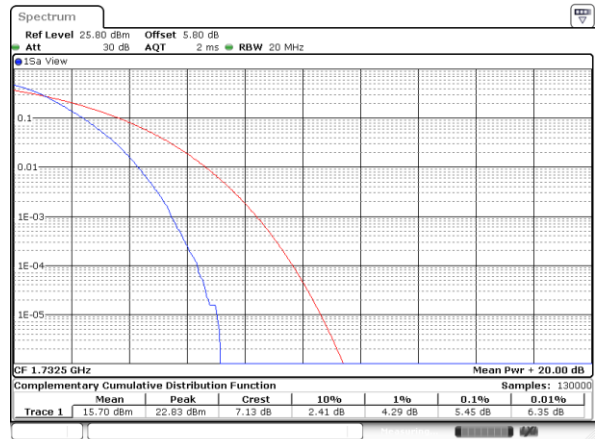
Lowest Channel / Full RB



Middle Channel / 1RB



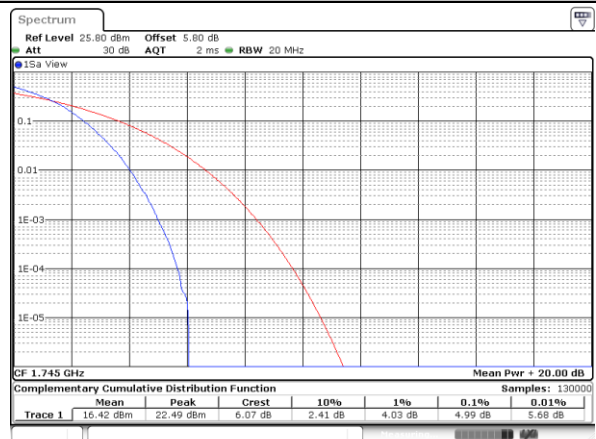
Middle Channel / Full RB



Highest Channel / 1RB



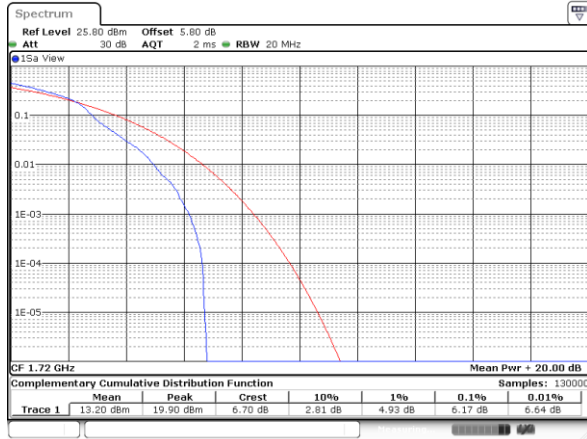
Highest Channel / Full RB



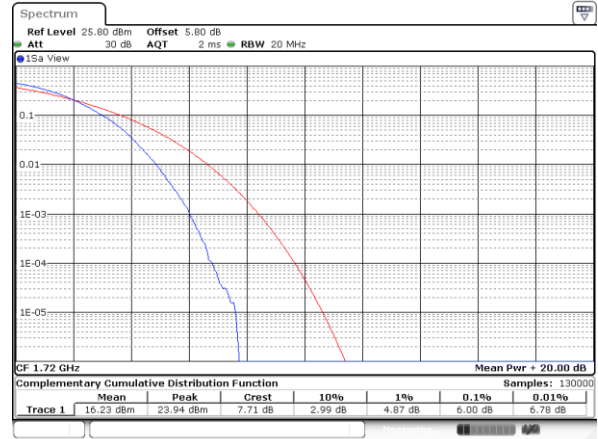


LTE Band 4 / 20MHz / 16QAM

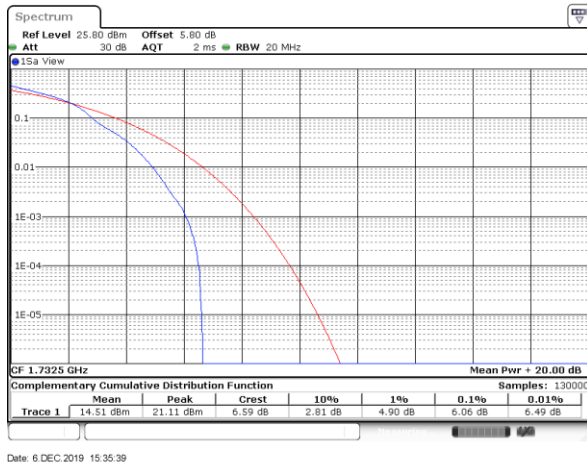
Lowest Channel / 1RB



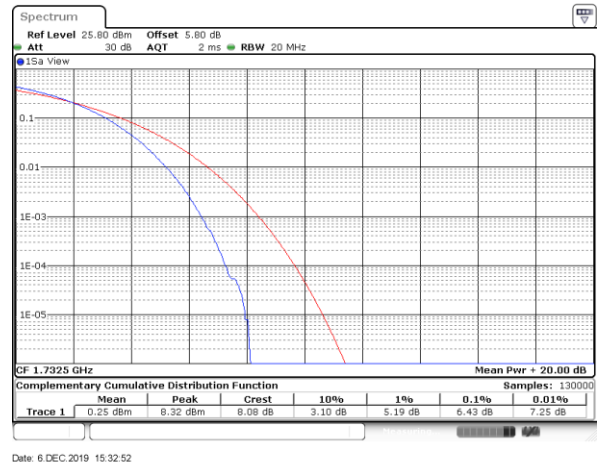
Lowest Channel / Full RB



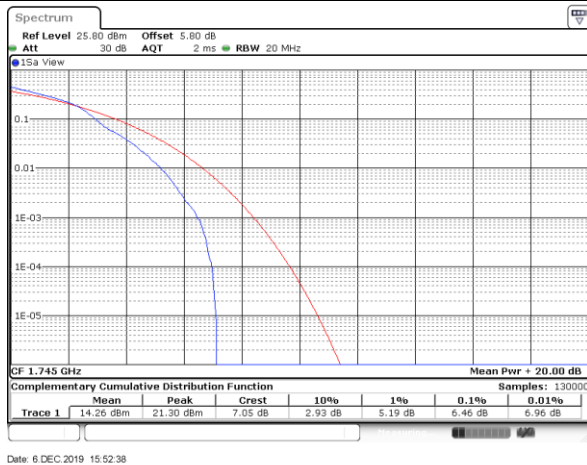
Middle Channel / 1RB



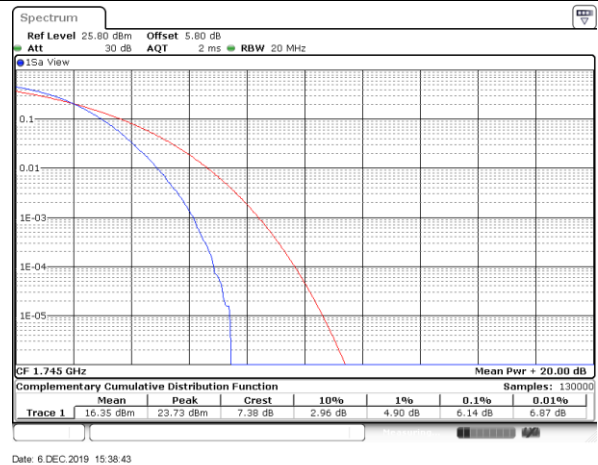
Middle Channel / Full RB



Highest Channel / 1RB



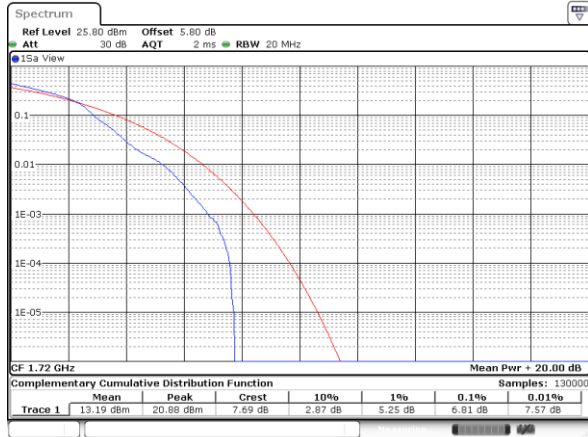
Highest Channel / Full RB



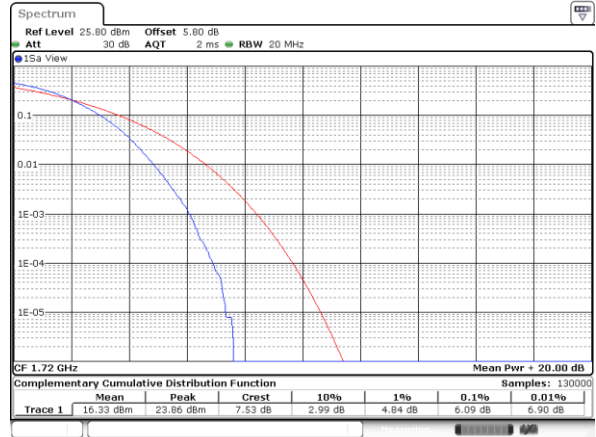


LTE Band 4 / 20MHz / 64QAM

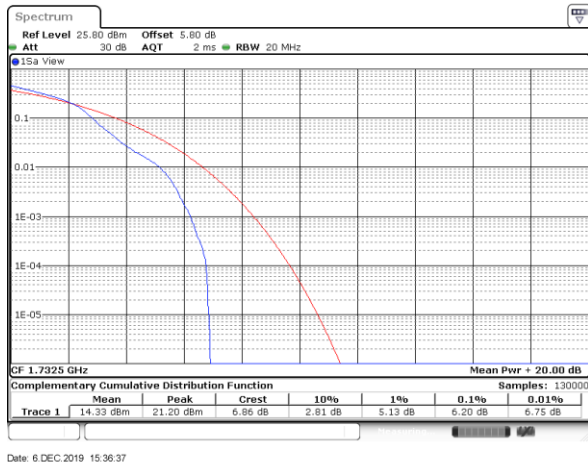
Lowest Channel / 1RB



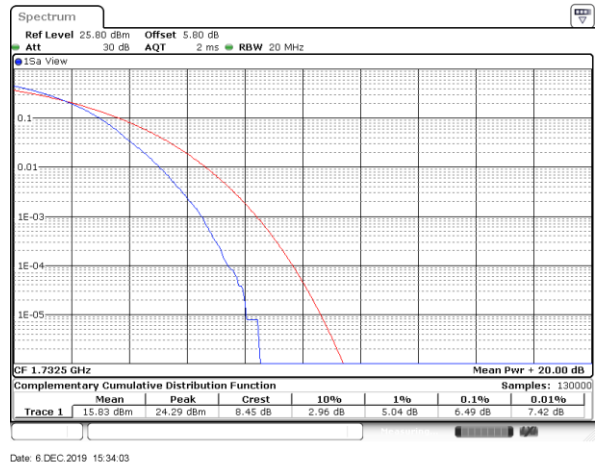
Lowest Channel / Full RB



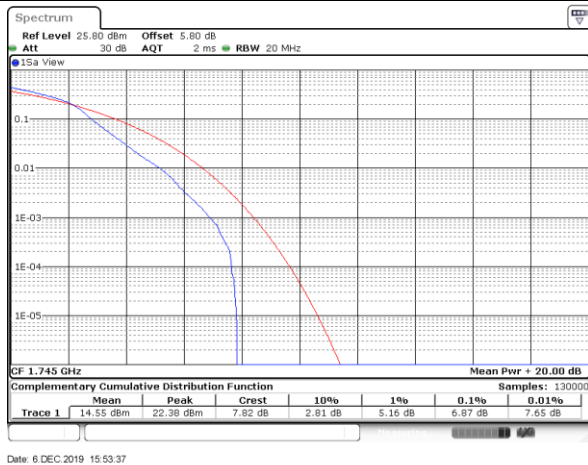
Middle Channel / 1RB



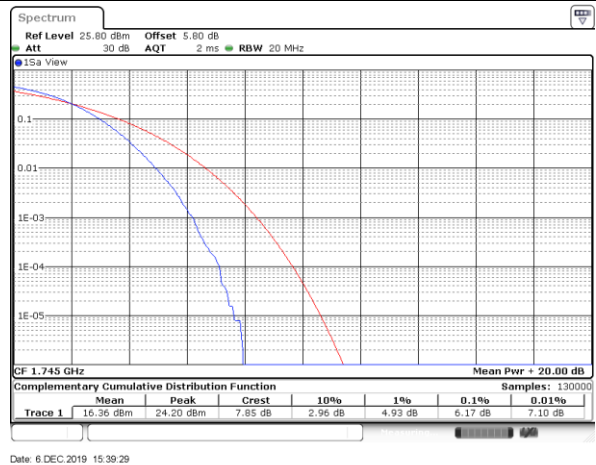
Middle Channel / Full RB



Highest Channel / 1RB



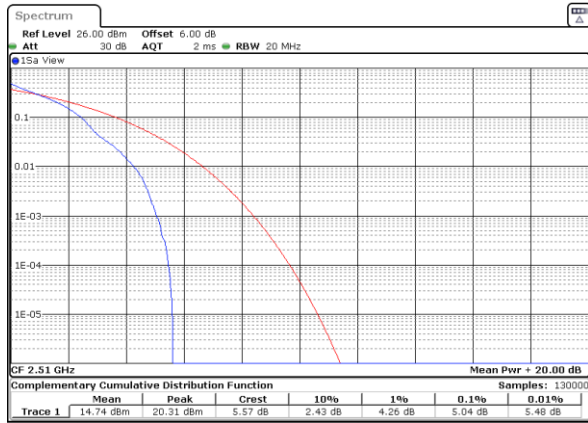
Highest Channel / Full RB



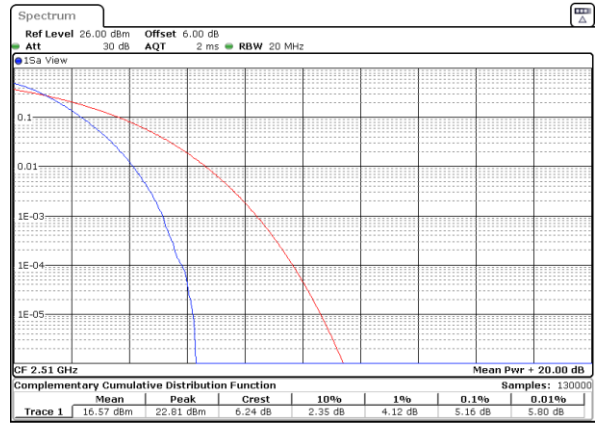


LTE Band 7 / 20MHz / QPSK

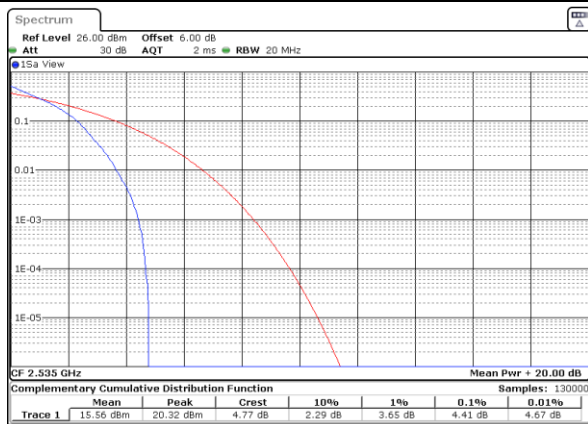
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB

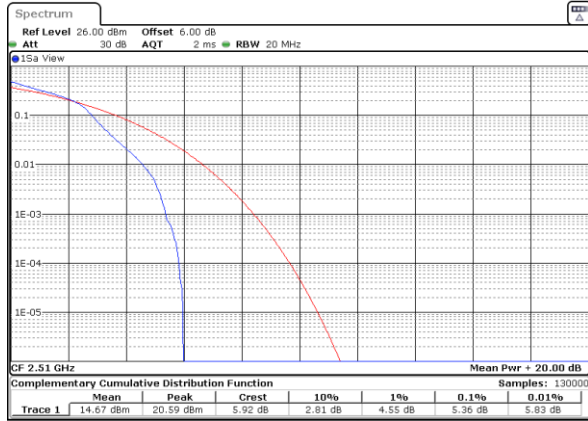


Highest Channel / 1RB

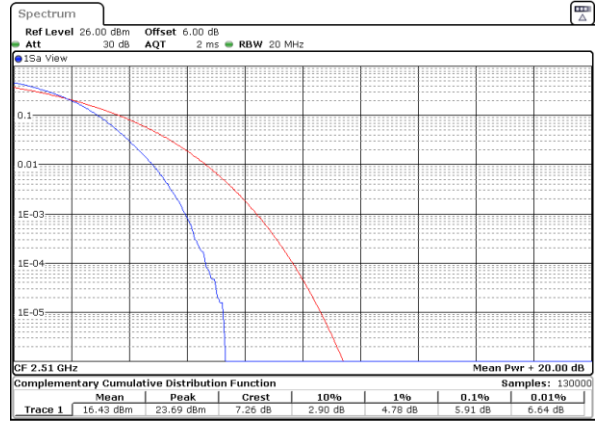


Highest Channel / Full RB

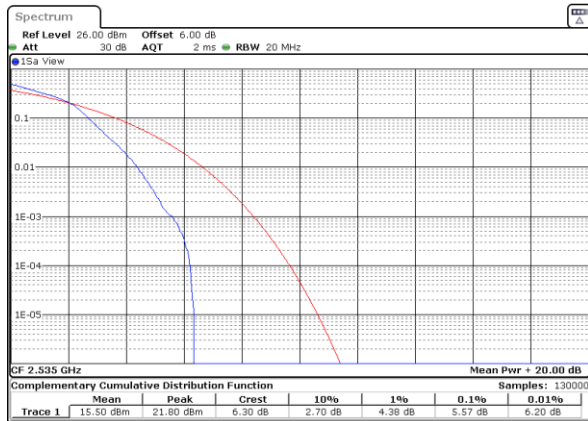


LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB


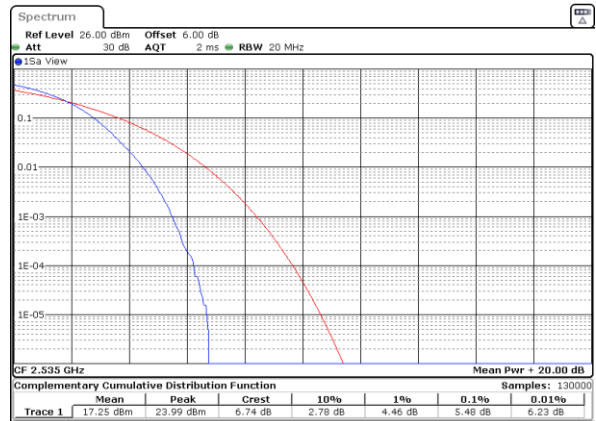
Date: 18 DEC 2019 01:58:10

Lowest Channel / Full RB


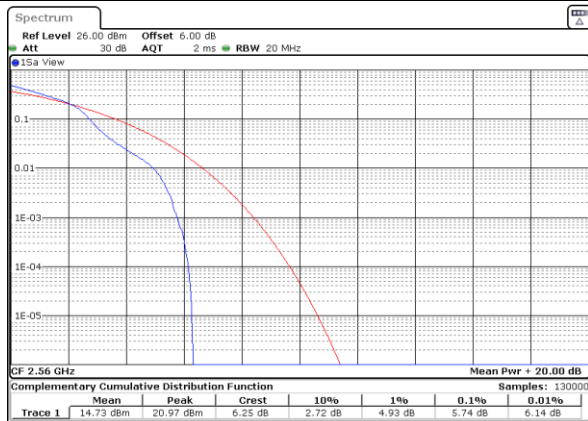
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Middle Channel / 1RB


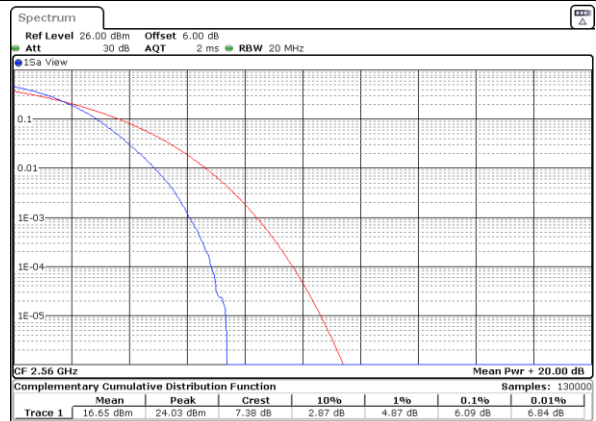
Date: 18 DEC 2019 02:04:32

Middle Channel / Full RB


Date: 18 DEC 2019 02:02:26

Highest Channel / 1RB


Date: 18 DEC 2019 02:11:17

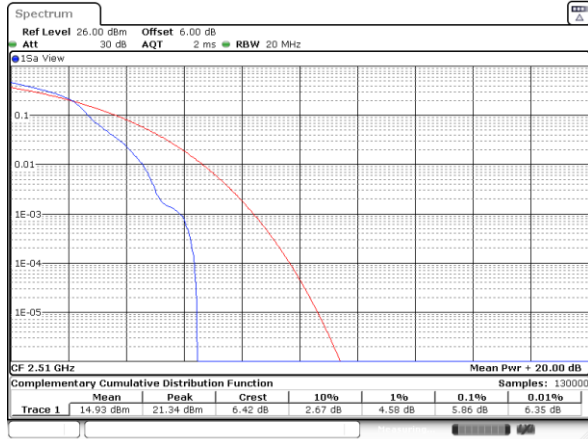
Highest Channel / Full RB


Date: 18 DEC 2019 02:07:47

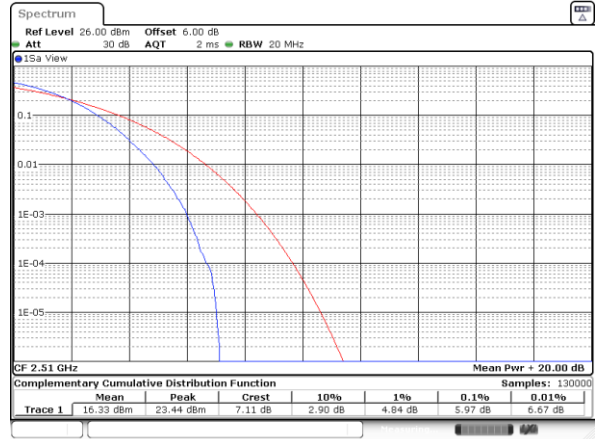


LTE Band 7 / 20MHz / 64QAM

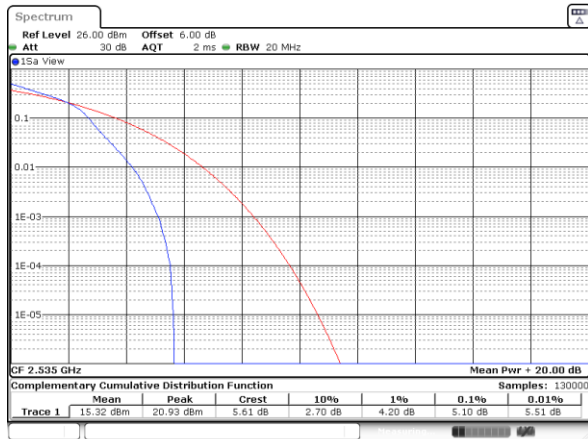
Lowest Channel / 1RB



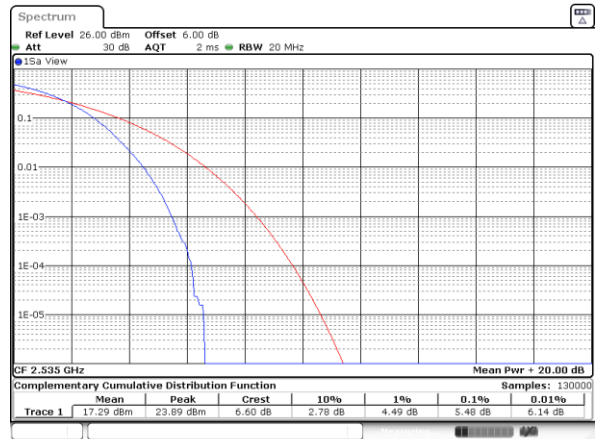
Lowest Channel / Full RB



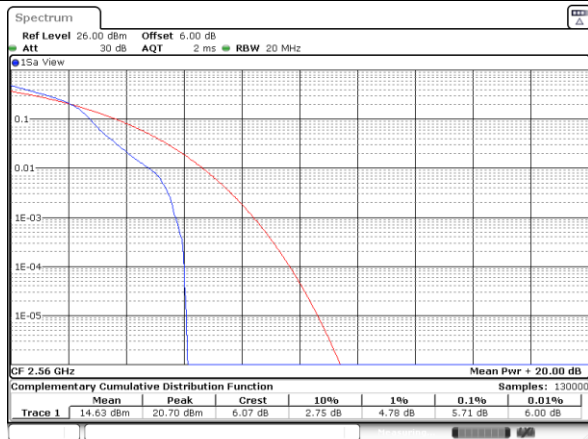
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



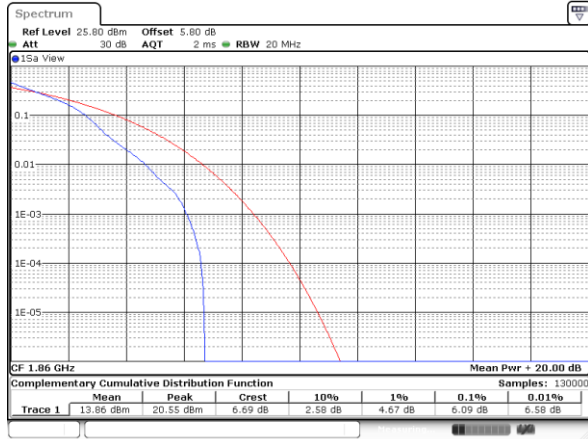
Highest Channel / Full RB



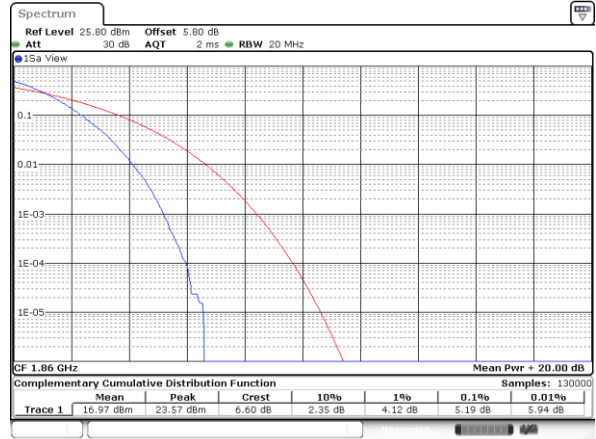


LTE Band 25 / 20MHz / QPSK

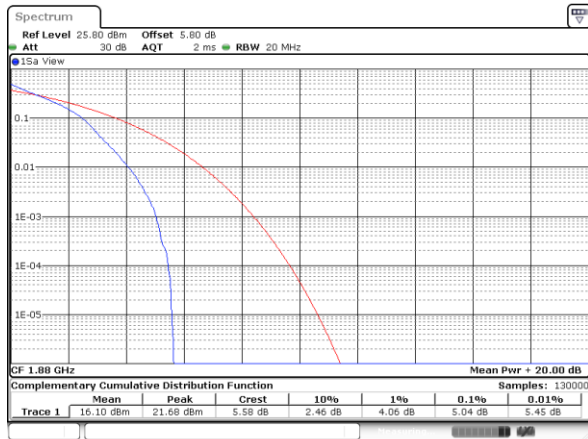
Lowest Channel / 1RB



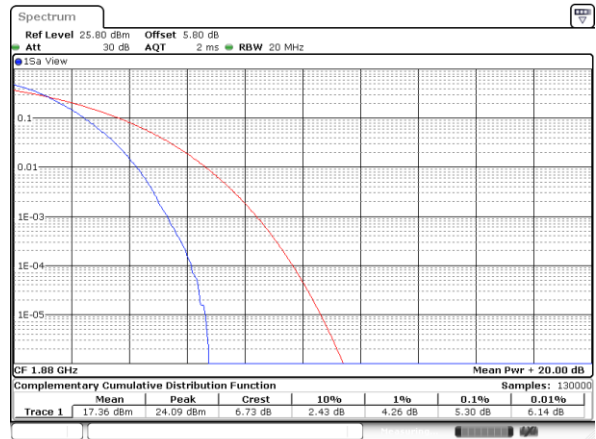
Lowest Channel / Full RB



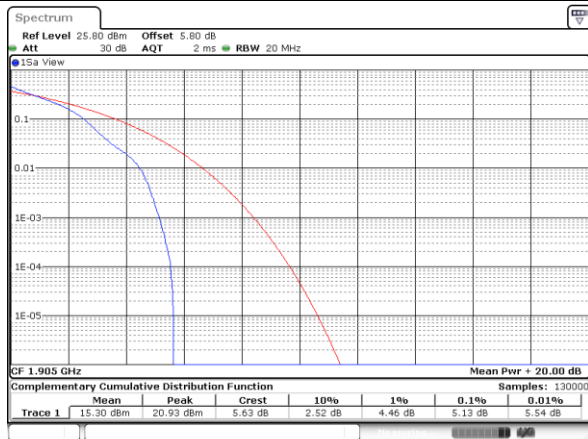
Middle Channel / 1RB



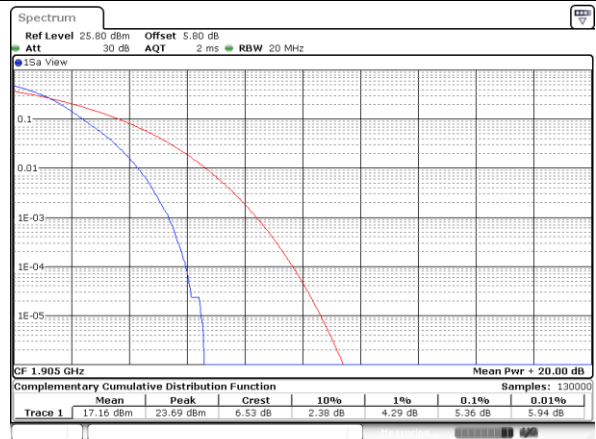
Middle Channel / Full RB



Highest Channel / 1RB



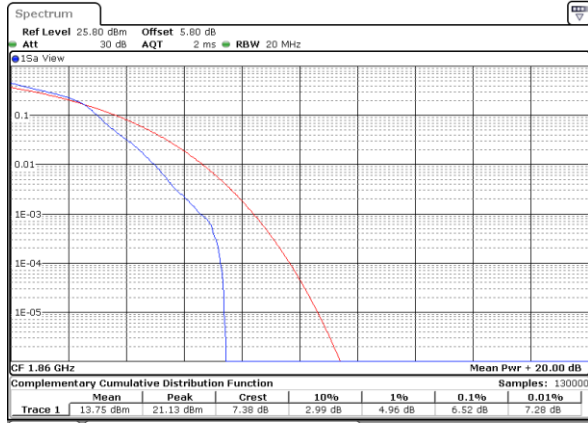
Highest Channel / Full RB



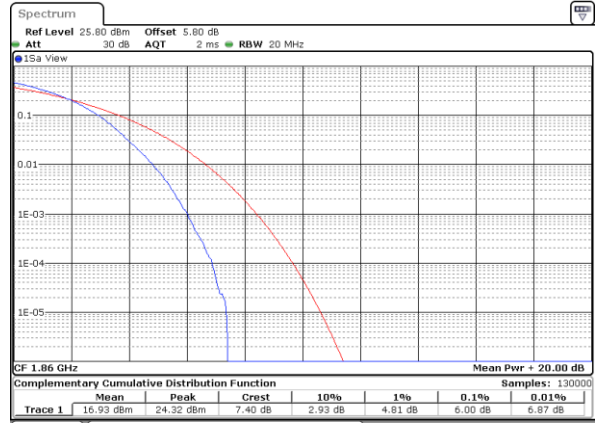


LTE Band 25 / 20MHz / 16QAM

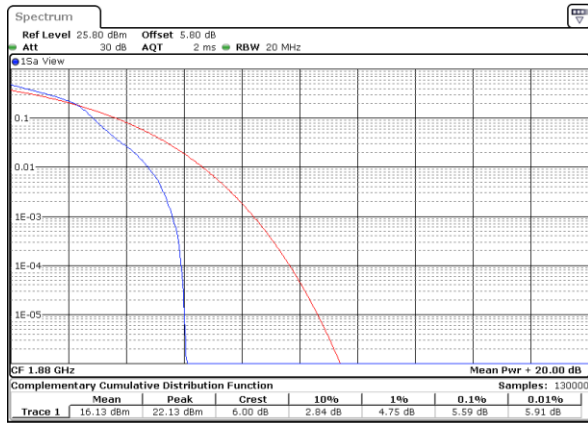
Lowest Channel / 1RB



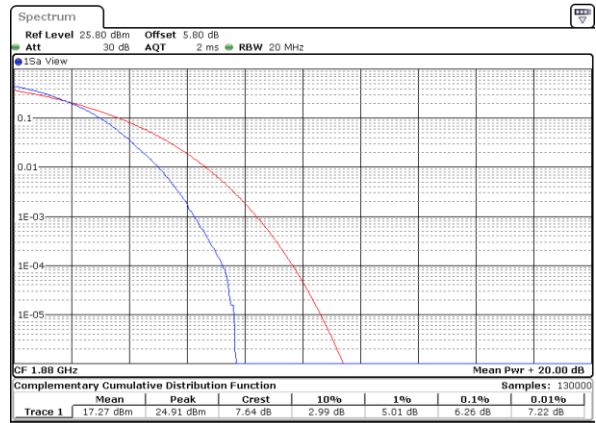
Lowest Channel / Full RB



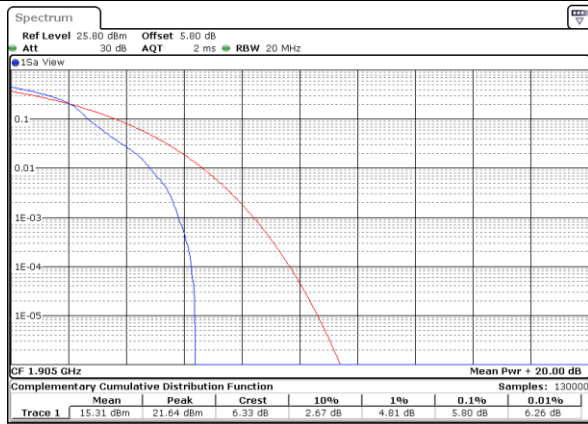
Middle Channel / 1RB



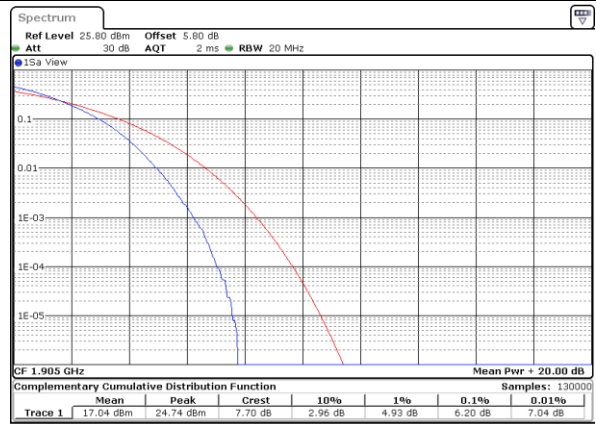
Middle Channel / Full RB



Highest Channel / 1RB



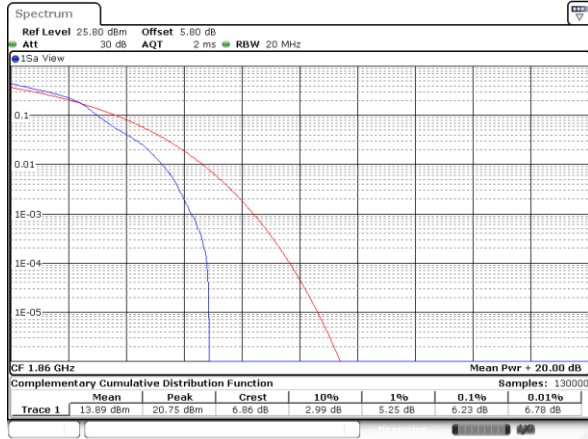
Highest Channel / Full RB



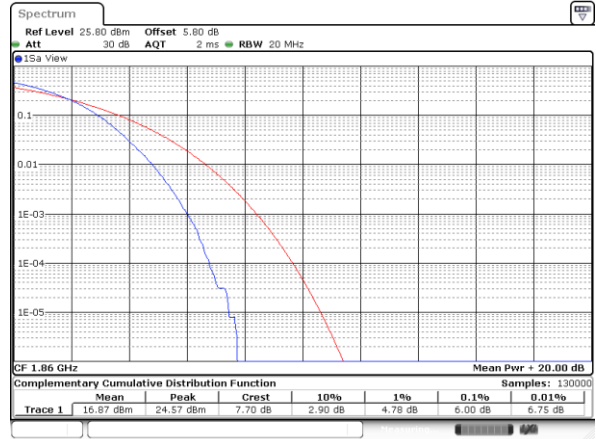


LTE Band 25 / 20MHz / 64QAM

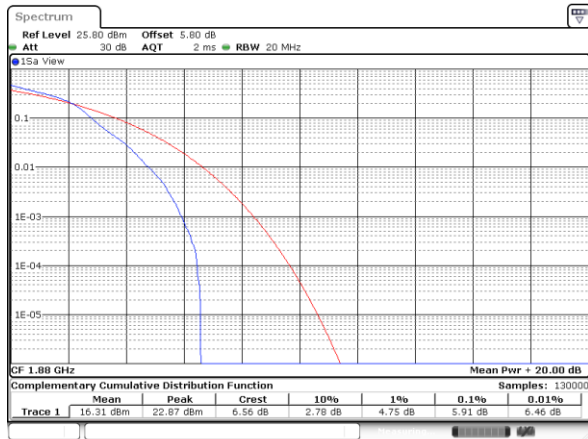
Lowest Channel / 1RB



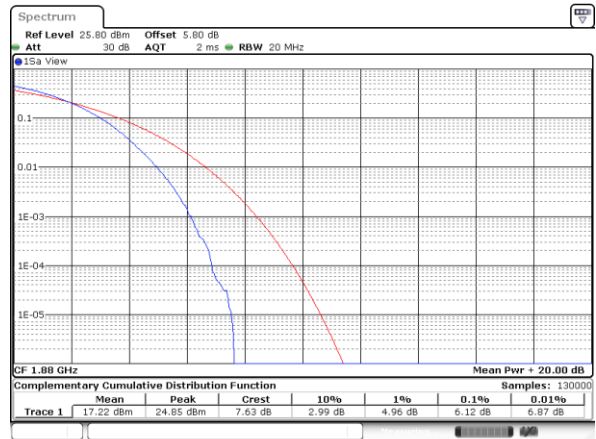
Lowest Channel / Full RB



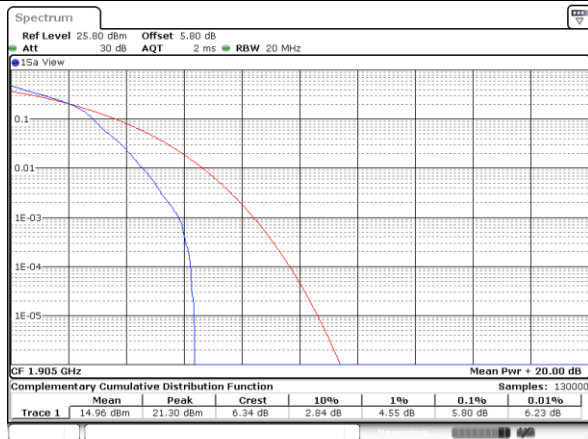
Middle Channel / 1RB



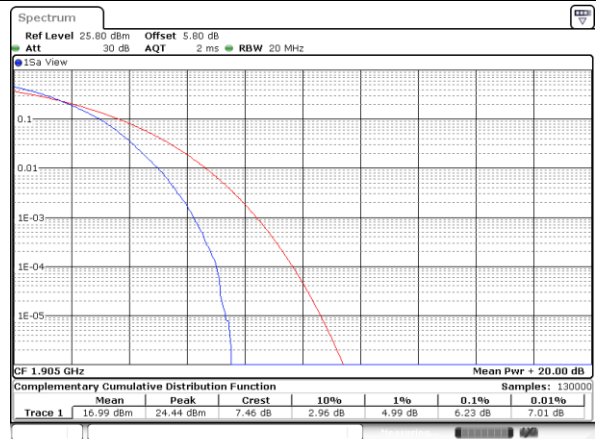
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





A.2.3 26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.47	1.47	3.50	3.30	5.27	5.47	9.83	9.83	14.45	14.15	20.30	20.22
Middle CH	1.54	1.44	3.47	3.16	5.28	5.39	9.85	9.95	14.33	14.27	20.18	20.26
Highest CH	1.56	1.47	3.30	3.44	5.32	5.31	9.69	10.01	14.18	14.54	20.10	20.06
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	1.37	-	3.44	-	5.04	-	9.87	-	14.21	-	19.94	-
Middle CH	1.48	-	3.34	-	5.06	-	9.91	-	14.39	-	20.06	-
Highest CH	1.42	-	3.27	-	5.31	-	10.05	-	14.24	-	20.10	-

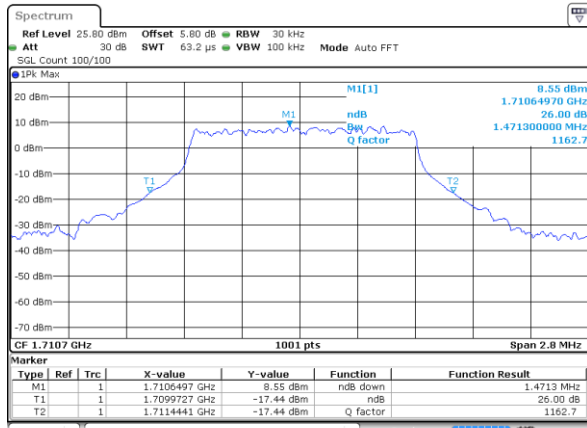
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.17	5.11	10.11	9.67	14.42	14.69	20.14	20.26
Middle CH	-	-	-	-	4.99	5.13	10.01	10.07	14.63	14.27	20.18	20.22
Highest CH	-	-	-	-	5.02	5.17	9.87	10.01	14.63	14.48	20.1	20.14
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	5.03	-	9.79	-	14.72	-	20.14	-
Middle CH	-	-	-	-	5.09	-	9.97	-	14.21	-	20.34	-
Highest CH	-	-	-	-	5.34	-	9.93	-	14.63	-	20.18	-

Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.47	1.43	3.49	3.22	5.11	5.05	9.95	9.95	14.36	14.36	20.18	20.18
Middle CH	1.28	1.26	3.02	2.98	4.74	4.90	9.75	9.93	14.24	14.30	20.14	20.14
Highest CH	1.44	1.48	3.31	3.11	5.09	5.12	9.91	9.93	14.30	14.45	20.14	20.14
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.46		3.33		4.94		10.31		14.36		20.30	
Middle CH	1.27		3.03		4.90		9.81		14.54		20.18	
Highest CH	1.46		3.18		5.25		9.77		14.21		20.18	



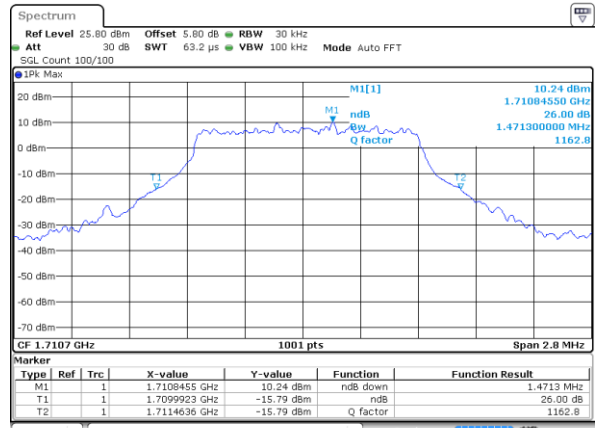
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



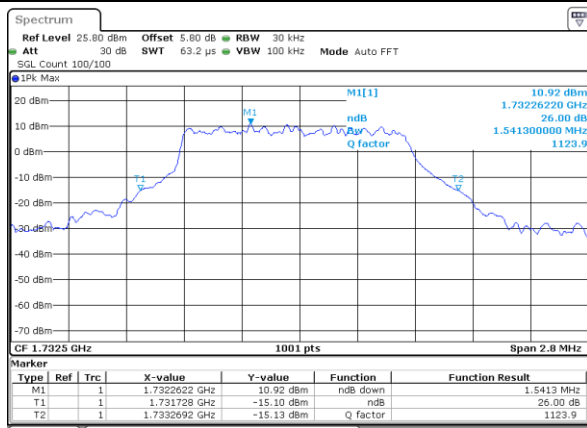
Date: 6 DEC 2019 11:10:55

Lowest Channel / 1.4MHz / 16QAM



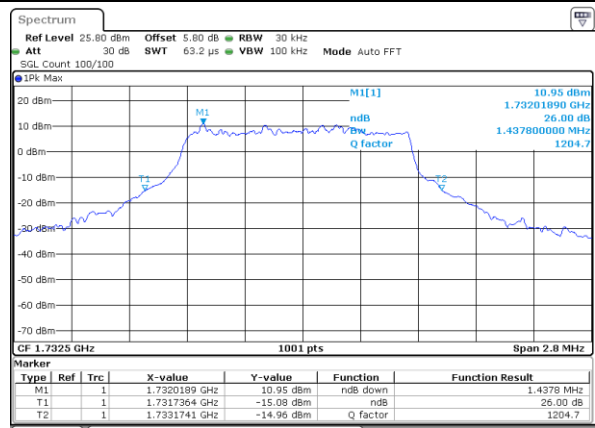
Date: 6 DEC 2019 11:11:17

Middle Channel / 1.4MHz / QPSK



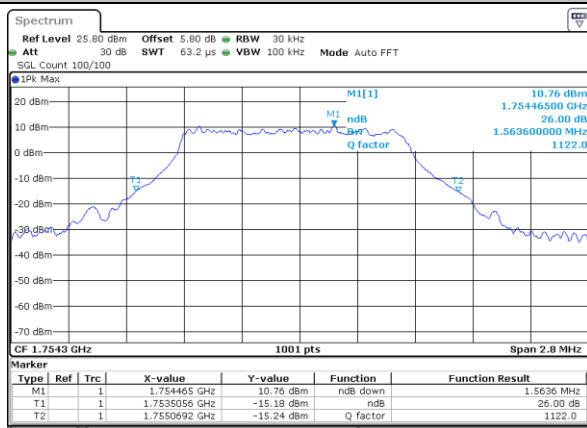
Date: 6 DEC 2019 11:14:59

Middle Channel / 1.4MHz / 16QAM



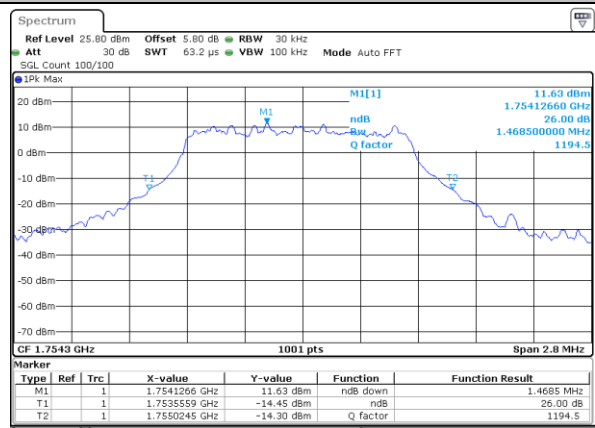
Date: 6 DEC 2019 11:15:19

Highest Channel / 1.4MHz / QPSK



Date: 6 DEC 2019 11:33:18

Highest Channel / 1.4MHz / 16QAM

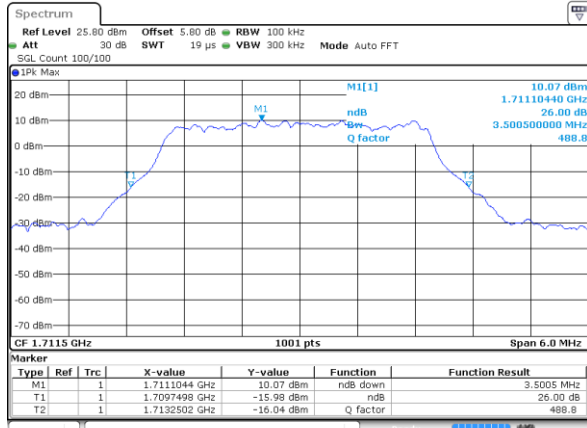


Date: 6 DEC 2019 11:33:44

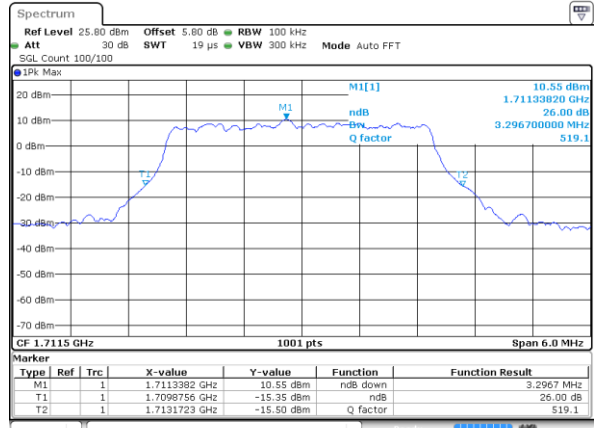


LTE Band 4

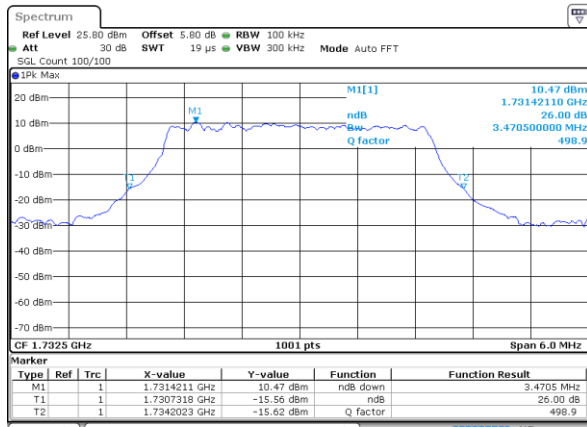
Lowest Channel / 3MHz / QPSK



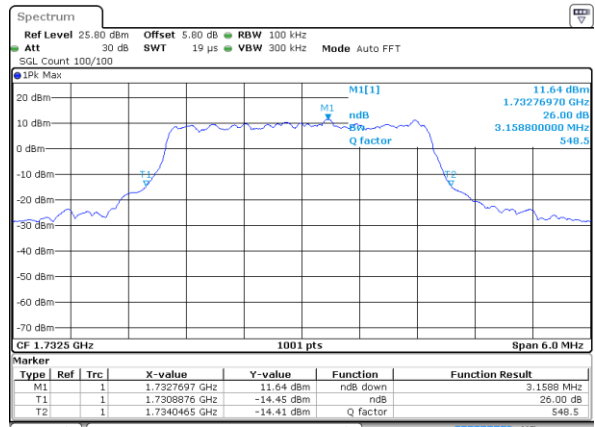
Lowest Channel / 3MHz / 16QAM



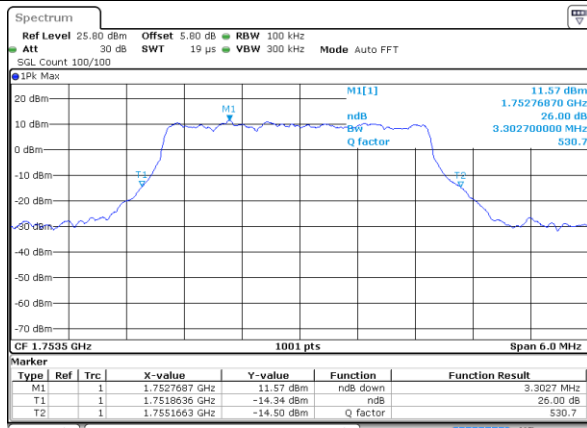
Middle Channel / 3MHz / QPSK



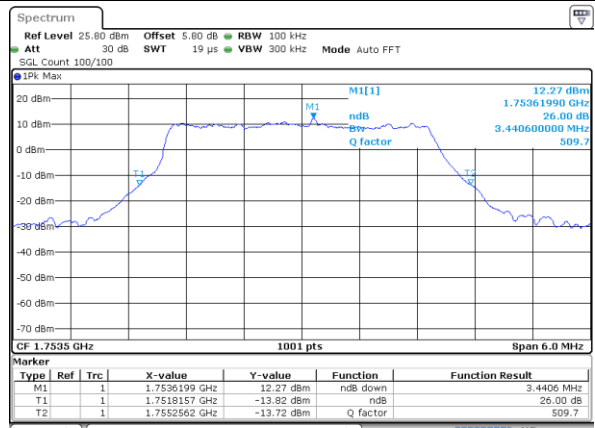
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



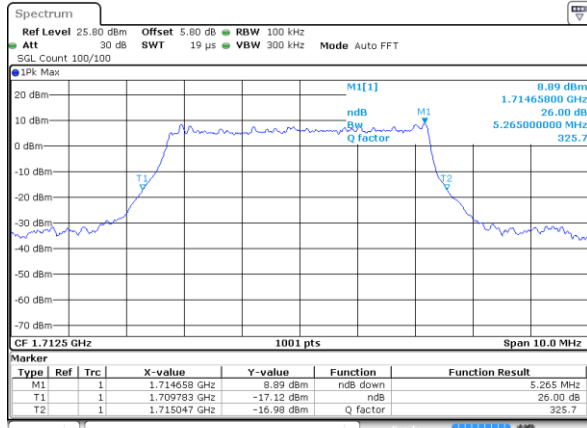
Highest Channel / 3MHz / 16QAM



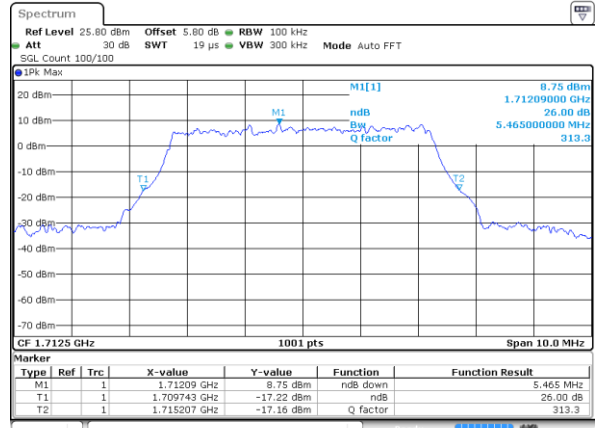


LTE Band 4

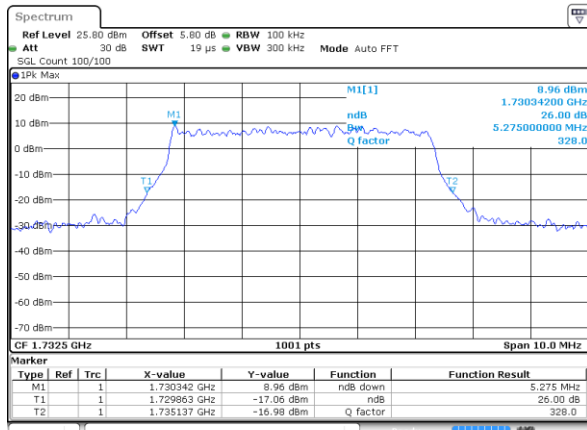
Lowest Channel / 5MHz / QPSK



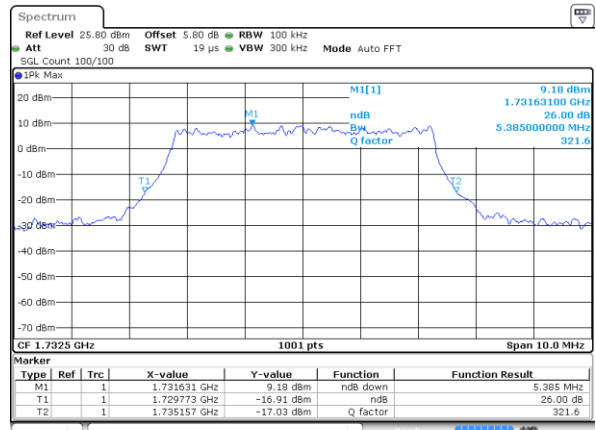
Lowest Channel / 5MHz / 16QAM



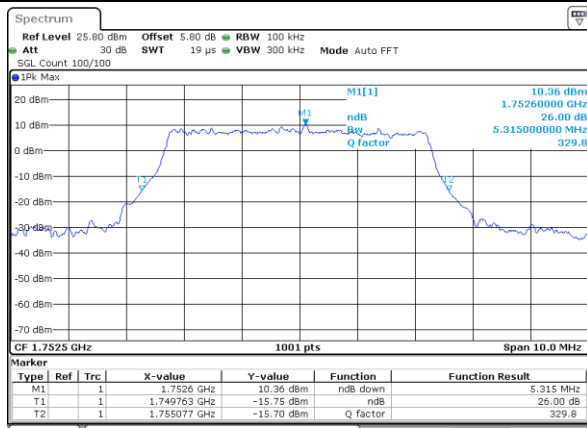
Middle Channel / 5MHz / QPSK



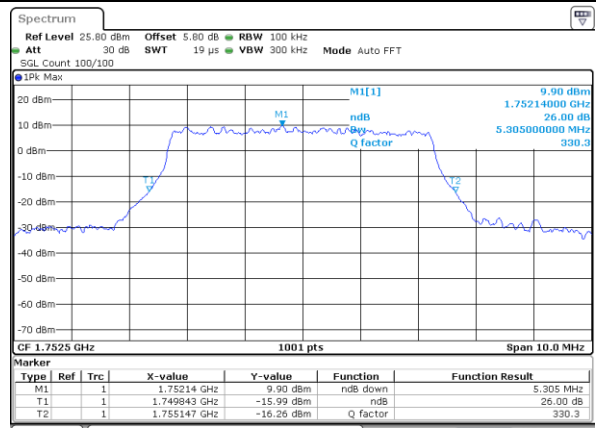
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



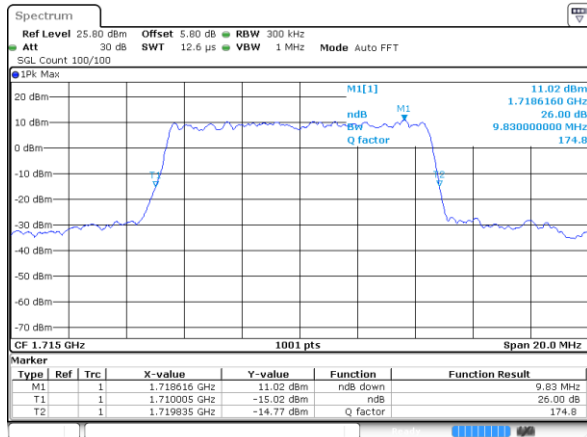
Highest Channel / 5MHz / 16QAM



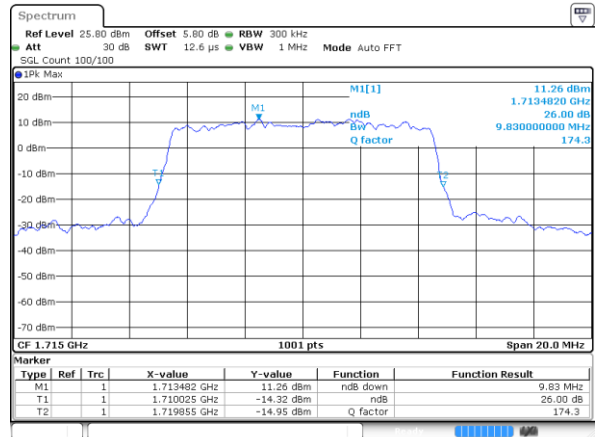


LTE Band 4

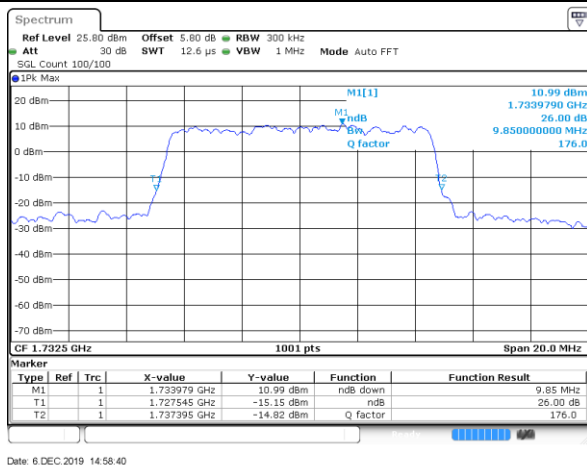
Lowest Channel / 10MHz / QPSK



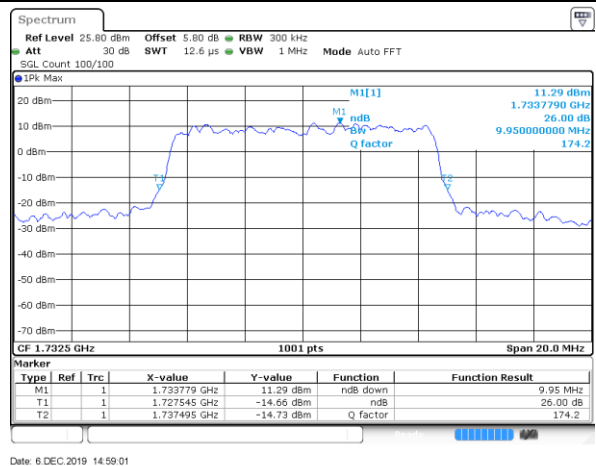
Lowest Channel / 10MHz / 16QAM



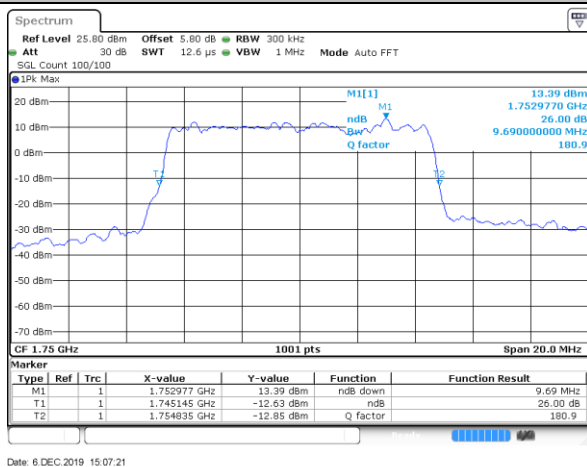
Middle Channel / 10MHz / QPSK



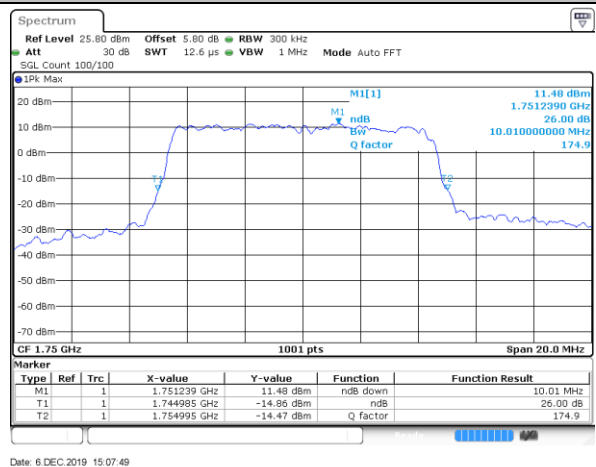
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



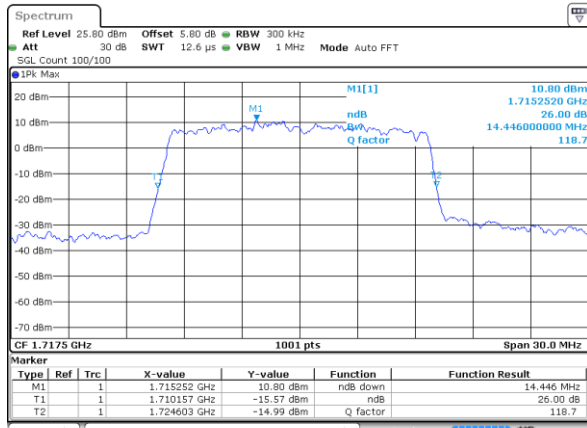
Highest Channel / 10MHz / 16QAM



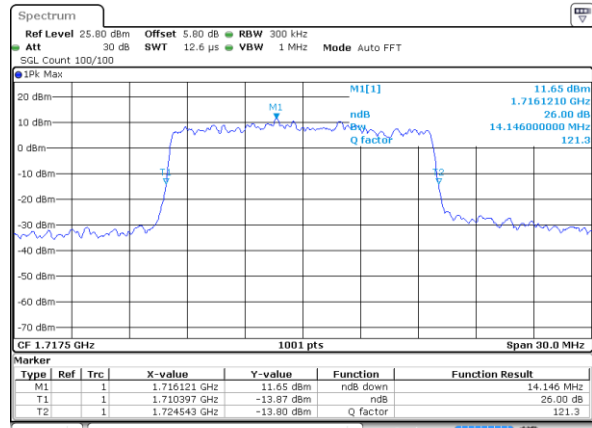


LTE Band 4

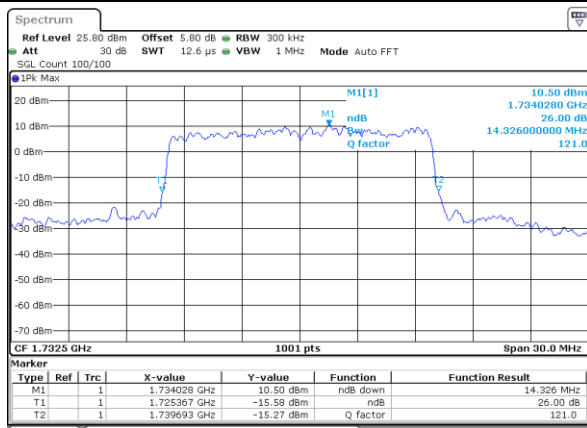
Lowest Channel / 15MHz / QPSK



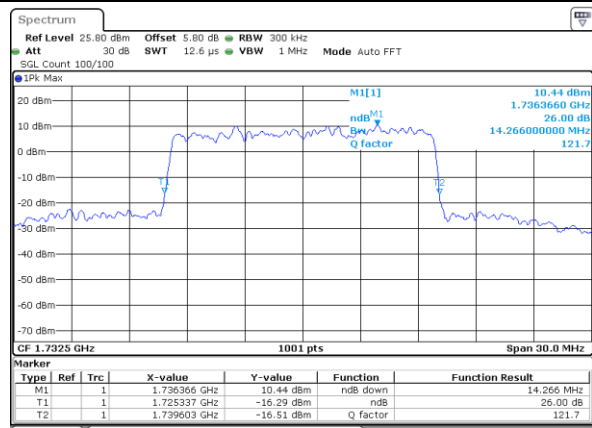
Lowest Channel / 15MHz / 16QAM



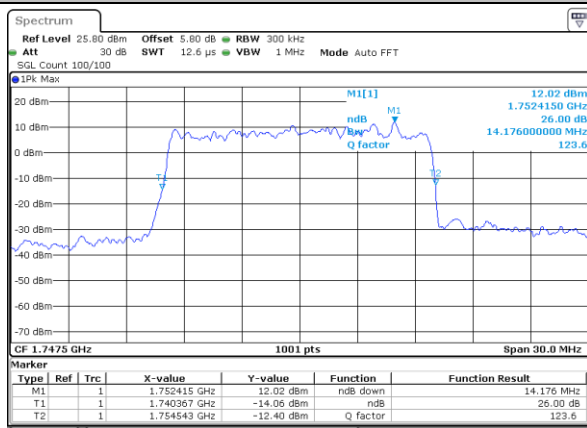
Middle Channel / 15MHz / QPSK



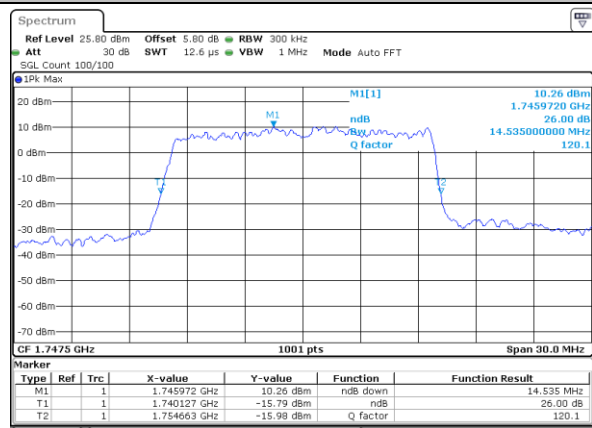
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



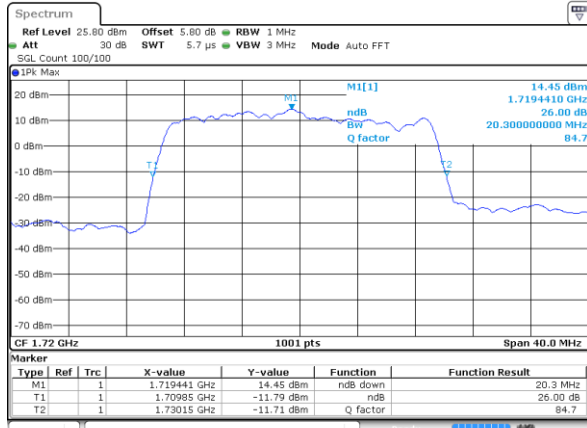
Highest Channel / 15MHz / 16QAM





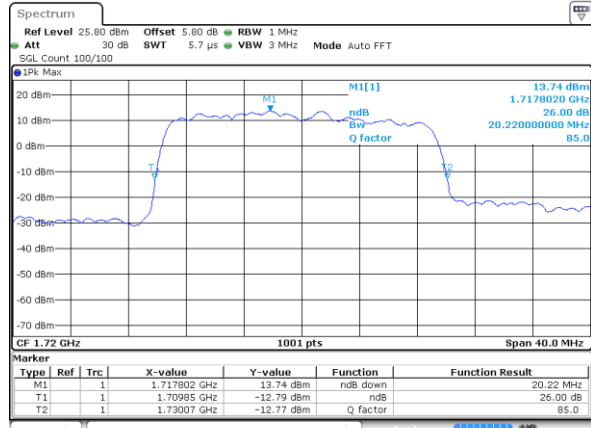
LTE Band 4

Lowest Channel / 20MHz / QPSK



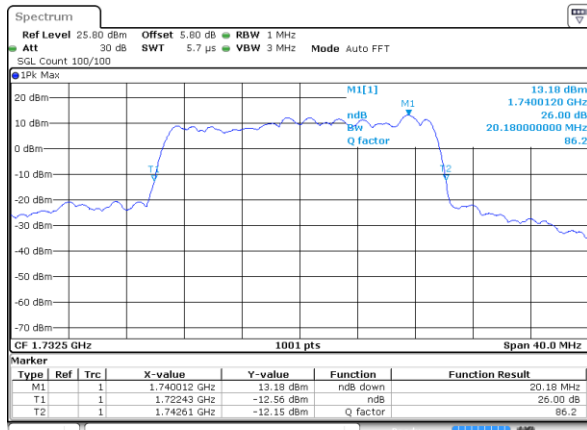
Date: 6 DEC 2019 15:26:50

Lowest Channel / 20MHz / 16QAM



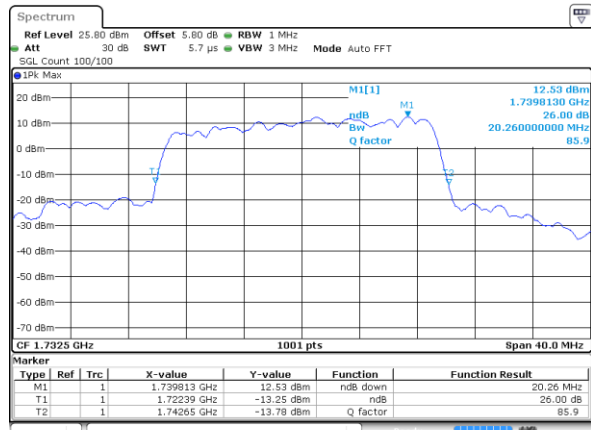
Date: 6 DEC 2019 15:27:20

Middle Channel / 20MHz / QPSK



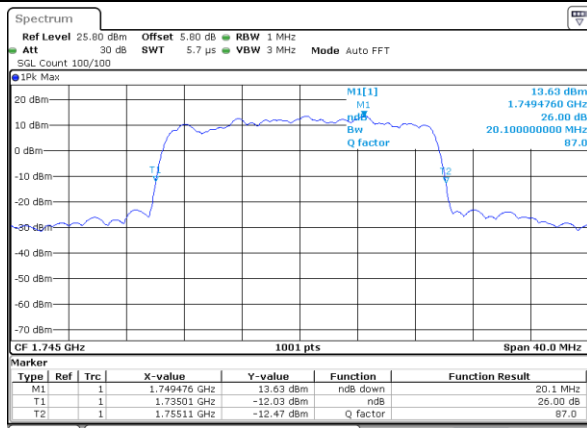
Date: 6 DEC 2019 15:33:35

Middle Channel / 20MHz / 16QAM



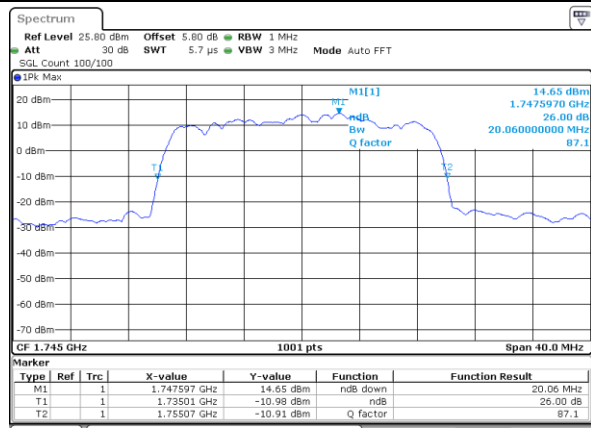
Date: 6 DEC 2019 15:33:07

Highest Channel / 20MHz / QPSK



Date: 6 DEC 2019 15:38:26

Highest Channel / 20MHz / 16QAM

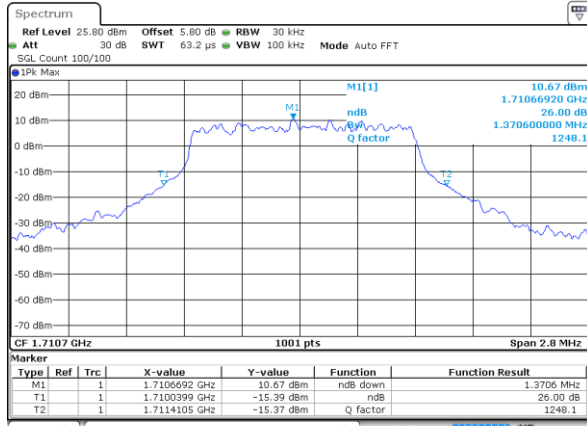


Date: 6 DEC 2019 15:39:06



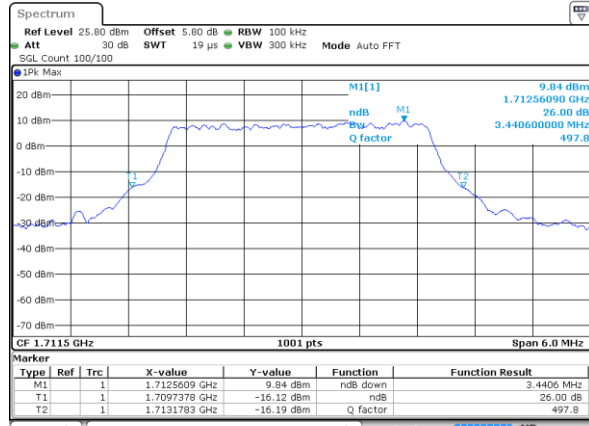
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



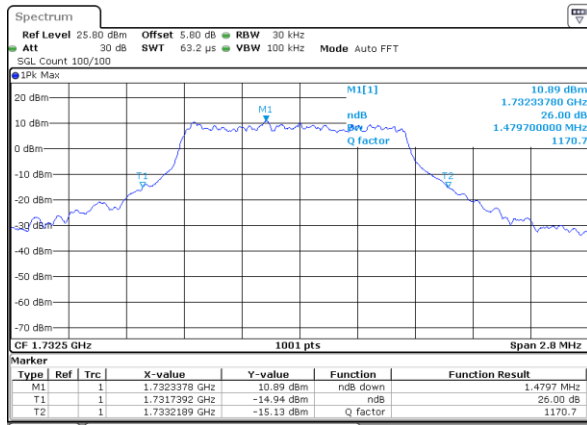
Date: 6 DEC 2019 11:11:31

Lowest Channel / 3MHz / 64QAM



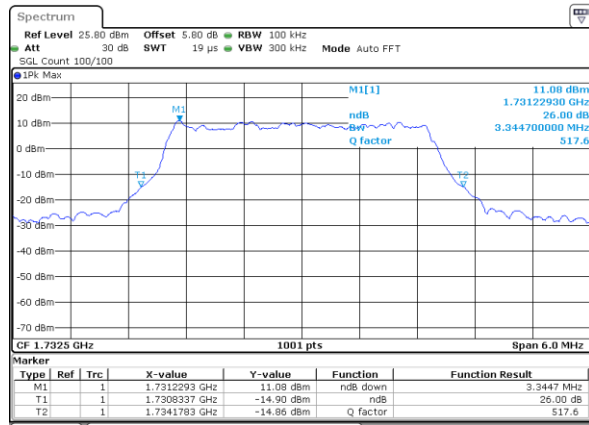
Date: 6 DEC 2019 11:41:15

Middle Channel / 1.4MHz / 64QAM



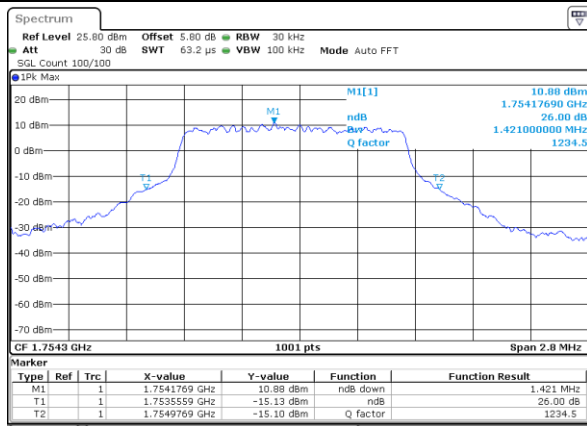
Date: 6 DEC 2019 11:15:42

Middle Channel / 3MHz / 64QAM



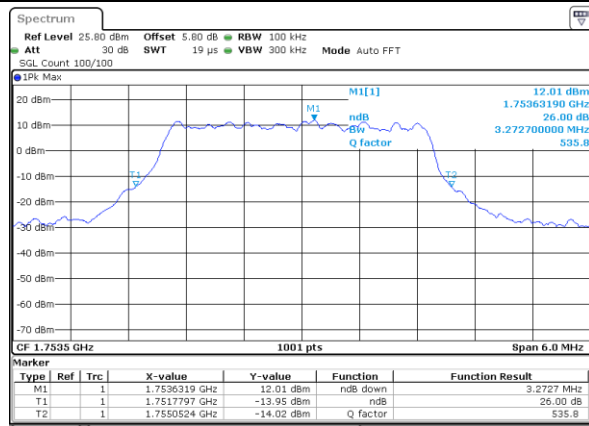
Date: 6 DEC 2019 11:47:37

Highest Channel / 1.4MHz / 64QAM



Date: 6 DEC 2019 11:34:09

Highest Channel / 3MHz / 64QAM

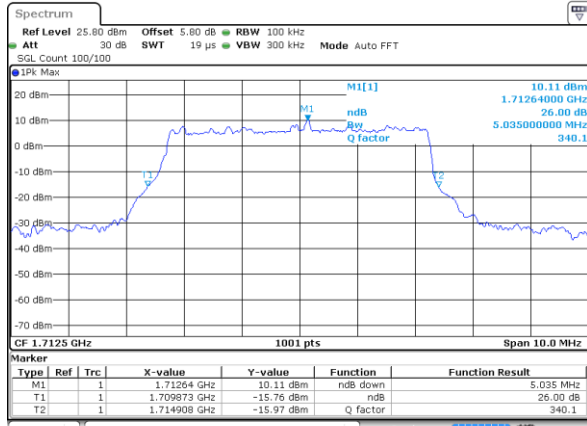


Date: 6 DEC 2019 11:53:11

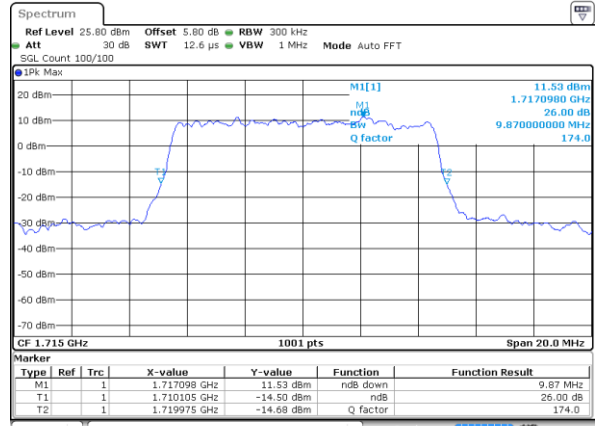


LTE Band 4

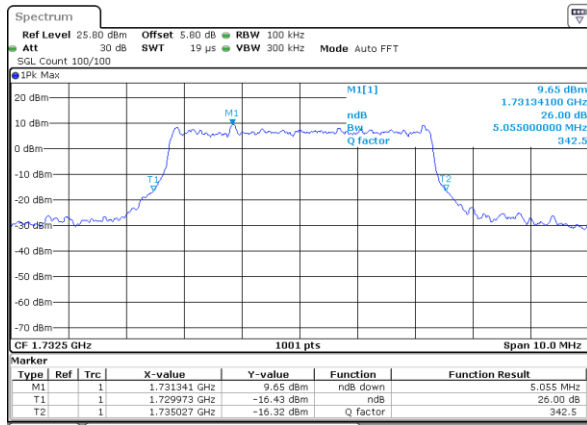
Lowest Channel / 5MHz / 64QAM



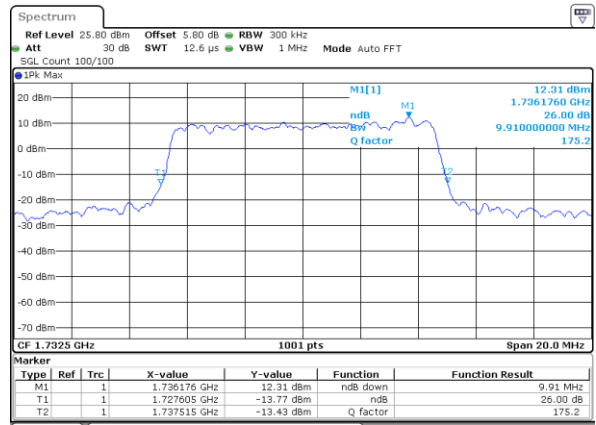
Lowest Channel / 10MHz / 64QAM



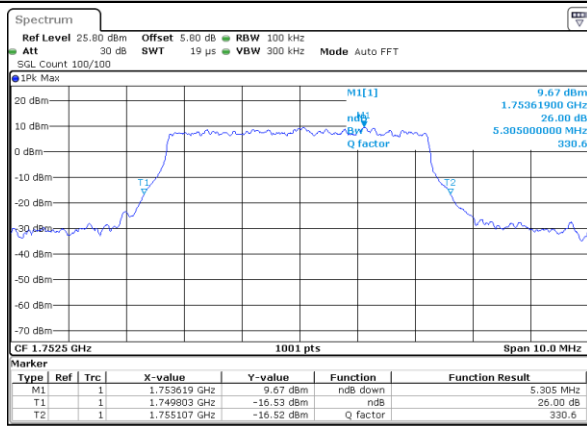
Middle Channel / 5MHz / 64QAM



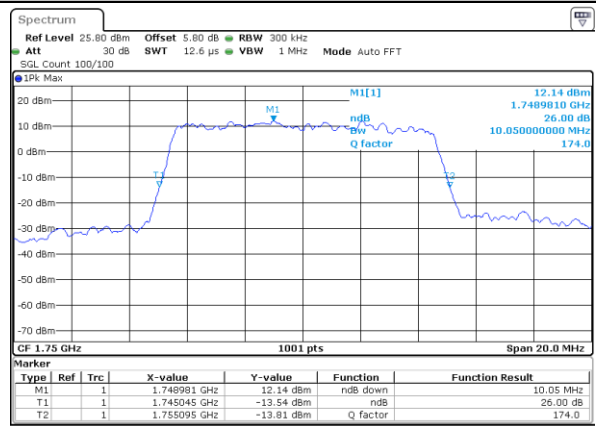
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



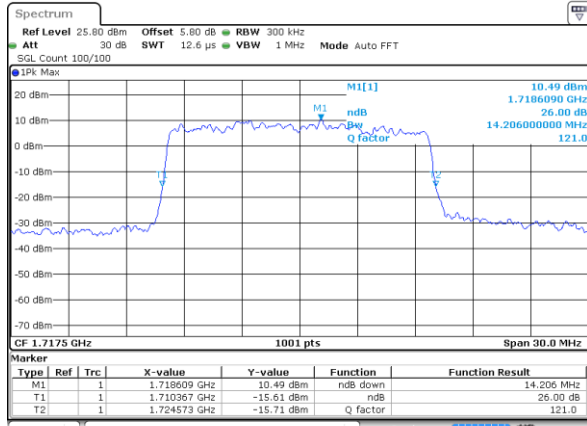
Highest Channel / 10MHz / 64QAM



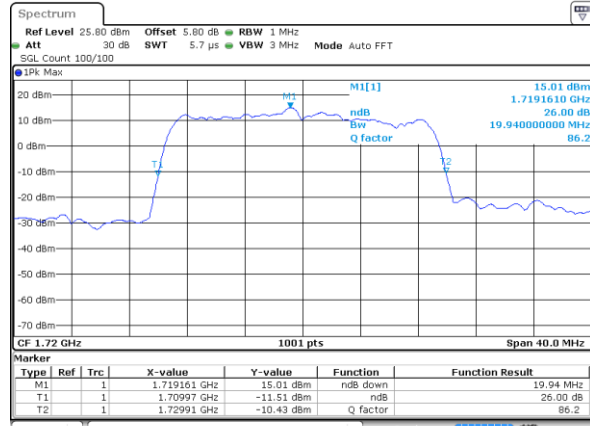


LTE Band 4

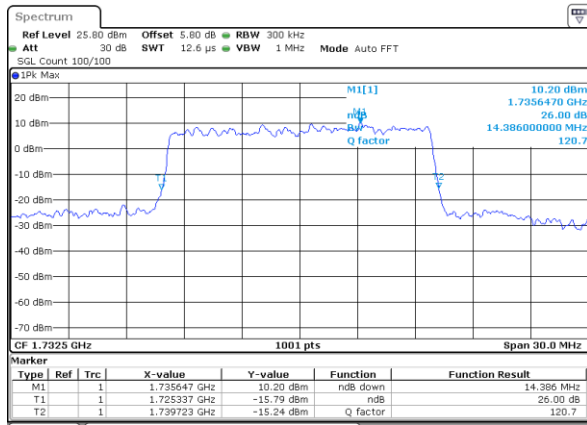
Lowest Channel / 15MHz / 64QAM



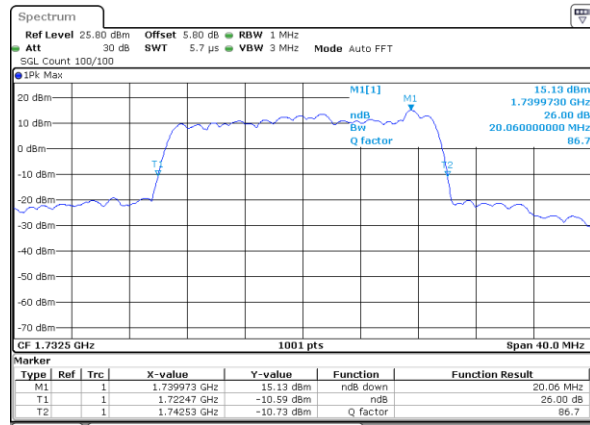
Lowest Channel / 20MHz / 64QAM



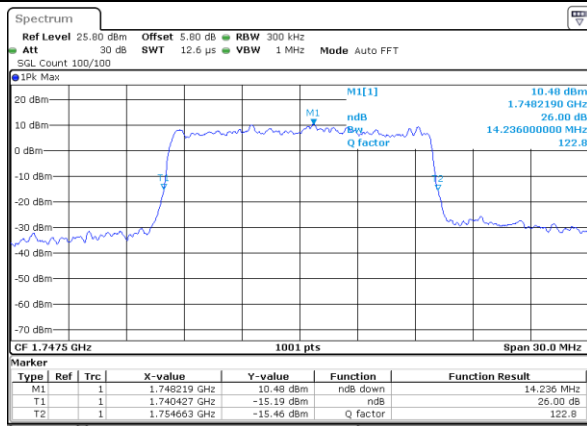
Middle Channel / 15MHz / 64QAM



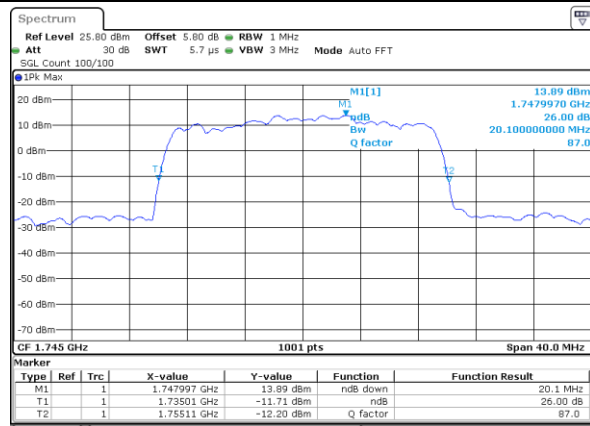
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



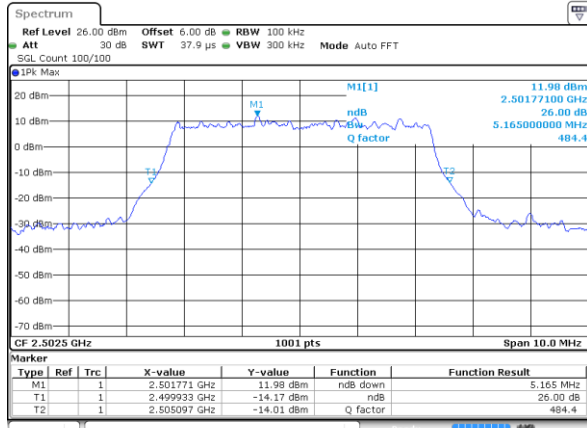
Highest Channel / 20MHz / 64QAM





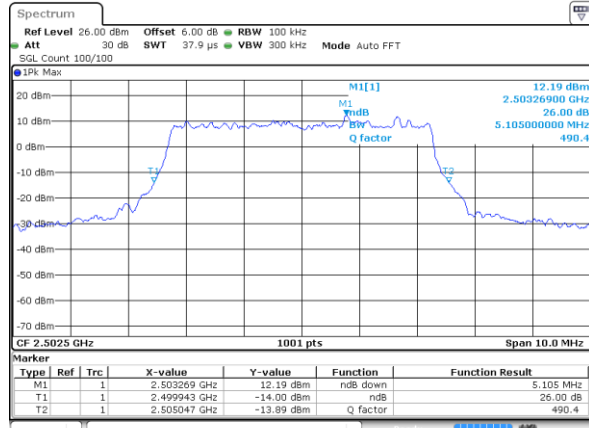
LTE Band 7

Lowest Channel / 5MHz / QPSK



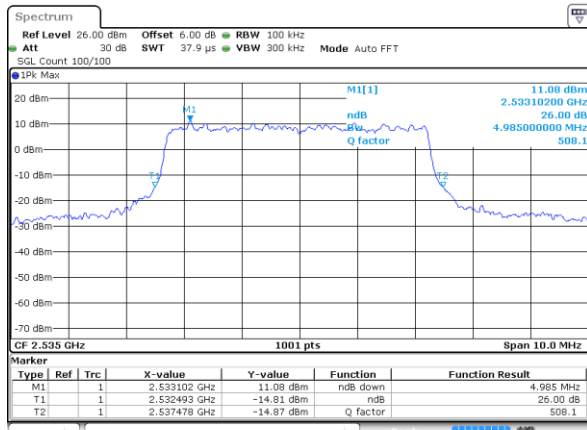
Date: 17 DEC 2019 17:04:29

Lowest Channel / 5MHz / 16QAM



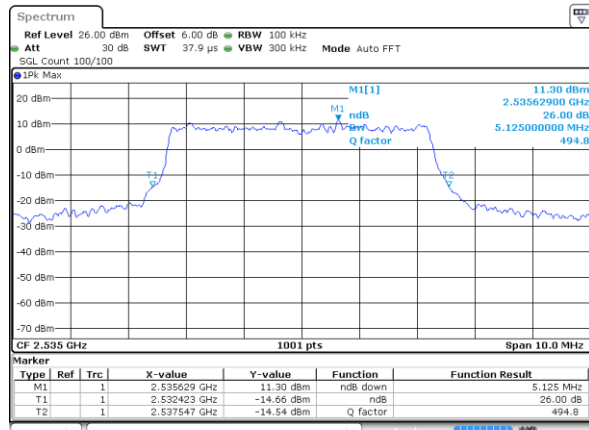
Date: 17 DEC 2019 17:05:17

Middle Channel / 5MHz / QPSK



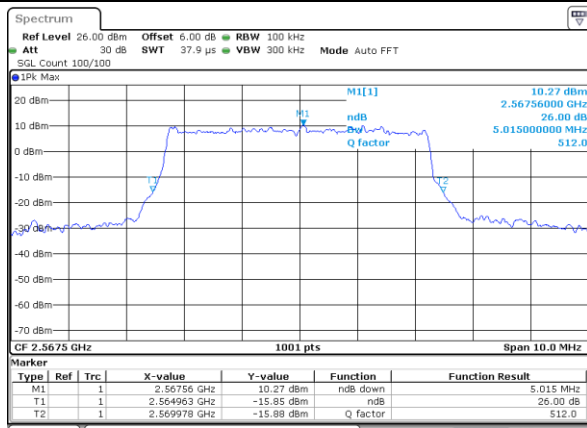
Date: 17 DEC 2019 17:11:25

Middle Channel / 5MHz / 16QAM



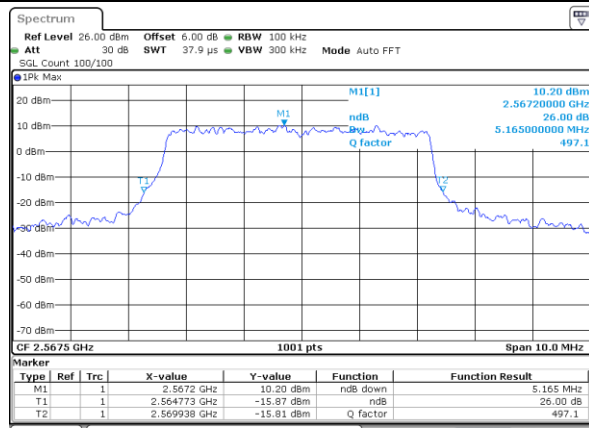
Date: 17 DEC 2019 17:11:48

Highest Channel / 5MHz / QPSK



Date: 17 DEC 2019 17:15:52

Highest Channel / 5MHz / 16QAM

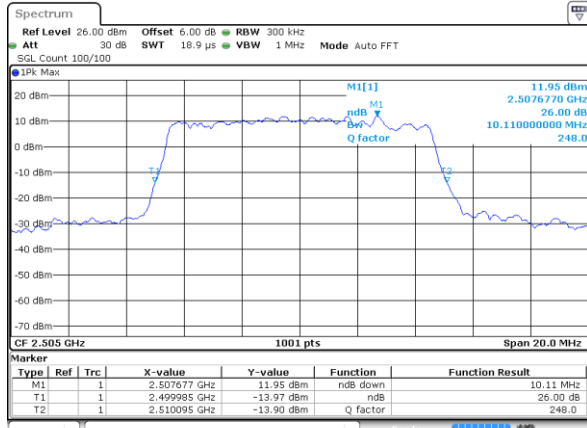


Date: 17 DEC 2019 17:16:38



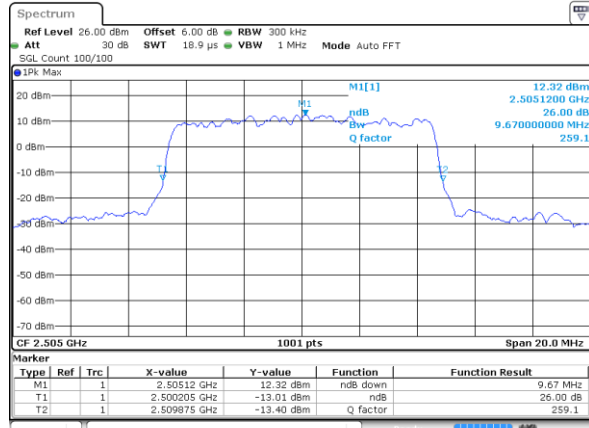
LTE Band 7

Lowest Channel / 10MHz / QPSK



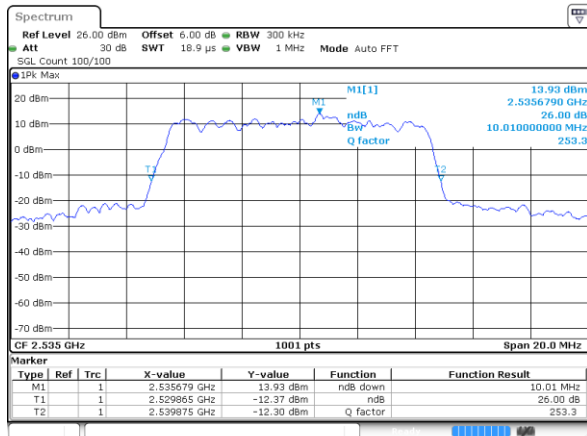
Date: 17 DEC 2019 17:25:33

Lowest Channel / 10MHz / 16QAM



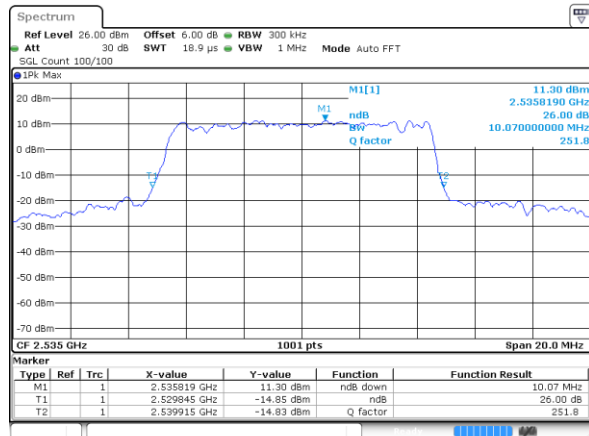
Date: 17 DEC 2019 17:26:34

Middle Channel / 10MHz / QPSK



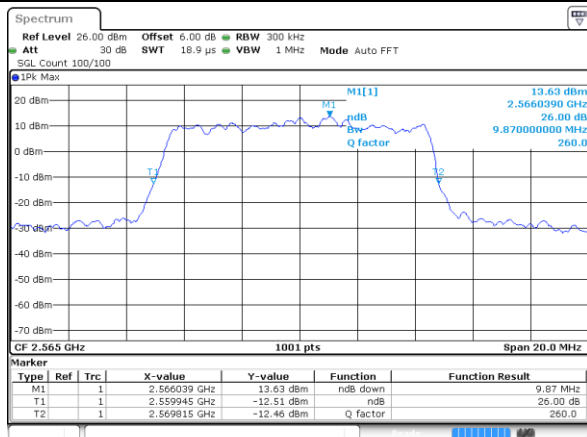
Date: 17 DEC 2019 17:32:42

Middle Channel / 10MHz / 16QAM



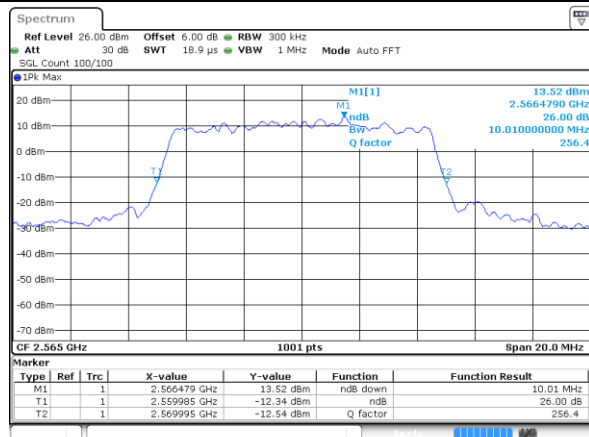
Date: 17 DEC 2019 17:33:09

Highest Channel / 10MHz / QPSK



Date: 17 DEC 2019 17:37:19

Highest Channel / 10MHz / 16QAM



Date: 17 DEC 2019 17:37:52