



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	21.57	21.79	21.72
20	1	49		21.47	21.27	21.37
20	1	99		21.27	21.12	21.42
20	50	0		21.25	21.39	21.30
20	50	24		21.23	21.26	21.26
20	50	50		21.33	21.14	21.12
20	100	0		21.29	21.38	21.31
20	1	0	16-QAM	21.28	21.09	21.36
20	1	49		21.17	21.21	21.13
20	1	99		21.02	21.10	21.04
20	50	0		20.42	20.34	20.38
20	50	24		20.47	20.33	20.41
20	50	50		20.48	20.24	20.15
20	100	0		20.32	20.23	20.38
15	1	0	QPSK	21.45	21.34	21.64
15	1	37		21.44	21.46	21.64
15	1	74		21.56	21.17	21.61
15	36	0		21.32	21.30	21.24
15	36	20		21.22	21.29	21.16
15	36	39		21.31	21.28	21.13
15	75	0		21.29	21.34	21.22
15	1	0	16-QAM	21.34	21.13	21.24
15	1	37		20.54	21.24	20.99
15	1	74		20.92	20.95	21.02
15	36	0		20.13	20.27	20.09
15	36	20		20.17	20.31	20.07
15	36	39		20.29	20.24	20.14
15	75	0		20.28	20.24	20.27



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.32	21.41	21.39
10	1	25		21.21	21.24	21.66
10	1	49		21.26	21.10	21.52
10	25	0		21.30	21.43	21.46
10	25	12		21.46	21.33	21.46
10	25	25		21.39	21.34	21.43
10	50	0		21.40	21.37	21.39
10	1	0	16-QAM	21.43	21.22	21.37
10	1	25		21.36	21.32	21.32
10	1	49		21.10	21.23	21.37
10	25	0		20.47	20.48	20.29
10	25	12		20.46	20.45	20.37
10	25	25		20.43	20.47	20.42
10	50	0		20.48	20.40	20.32
5	1	0	QPSK	21.11	21.32	21.32
5	1	12		21.44	21.43	21.51
5	1	24		21.12	21.03	21.43
5	12	0		21.49	21.45	21.35
5	12	7		21.33	21.42	21.50
5	12	13		21.30	21.40	21.50
5	25	0		21.34	21.41	21.40
5	1	0	16-QAM	21.30	21.16	21.09
5	1	12		20.67	21.17	21.04
5	1	24		20.81	20.96	21.47
5	12	0		20.47	20.48	20.36
5	12	7		20.44	20.36	20.49
5	12	13		20.35	20.37	20.33
5	25	0		20.45	20.45	20.33



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.75	21.70	21.20
3	1	8		21.73	21.13	21.25
3	1	14		21.61	21.27	21.60
3	8	0		21.44	21.34	21.22
3	8	4		21.45	21.34	21.25
3	8	7		21.44	21.25	21.21
3	15	0		21.49	21.30	21.18
3	1	0	16-QAM	21.33	21.25	20.84
3	1	8		21.20	21.08	21.12
3	1	14		21.15	20.95	21.46
3	8	0		20.43	20.37	20.25
3	8	4		20.41	20.46	20.28
3	8	7		20.33	20.21	20.36
3	15	0		20.27	20.19	20.06
1.4	1	0	QPSK	21.78	21.55	21.45
1.4	1	3		21.73	21.51	21.32
1.4	1	5		21.69	21.42	21.43
1.4	3	0		21.77	21.77	21.50
1.4	3	1		21.72	21.78	21.57
1.4	3	3		21.77	21.58	21.47
1.4	6	0		21.43	21.44	21.23
1.4	1	0	16-QAM	21.43	21.17	21.09
1.4	1	3		21.45	21.37	21.25
1.4	1	5		21.43	21.21	21.16
1.4	3	0		21.35	21.40	21.21
1.4	3	1		21.48	21.40	21.24
1.4	3	3		21.33	21.23	21.25
1.4	6	0		20.34	20.45	20.25



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.75	
10	1	25			22.29	
10	1	49			22.49	
10	25	0			21.64	
10	25	12			21.62	
10	25	25			21.59	
10	50	0			21.60	
10	1	0	16-QAM		21.26	
10	1	25			21.40	
10	1	49			21.46	
10	25	0			20.55	
10	25	12			20.64	
10	25	25			20.77	
10	50	0			20.69	
5	1	0	QPSK	22.58	22.74	22.29
5	1	12		22.65	22.54	22.70
5	1	24		22.43	22.47	22.39
5	12	0		21.66	21.66	21.64
5	12	7		21.64	21.77	21.83
5	12	13		21.71	21.76	21.84
5	25	0		21.60	21.74	21.70
5	1	0	16-QAM	21.40	21.45	21.23
5	1	12		21.04	21.32	21.40
5	1	24		20.95	21.43	21.45
5	12	0		20.55	20.73	20.49
5	12	7		20.57	20.75	20.88
5	12	13		20.65	20.63	20.70
5	25	0		20.48	20.83	20.77



LTE Band 4

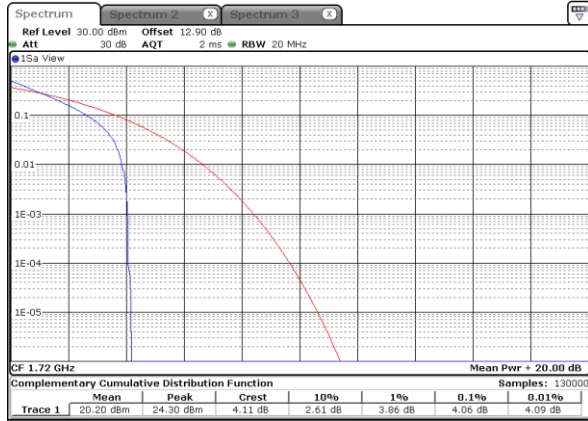
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.06	4.87	4.96	5.91	PASS
Middle CH	4.43	4.49	5.16	5.62	
Highest CH	3.88	4.72	4.75	5.59	

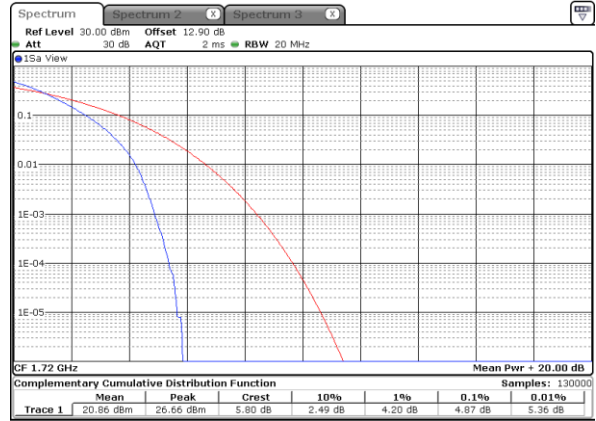


LTE Band 4 / 20MHz / QPSK

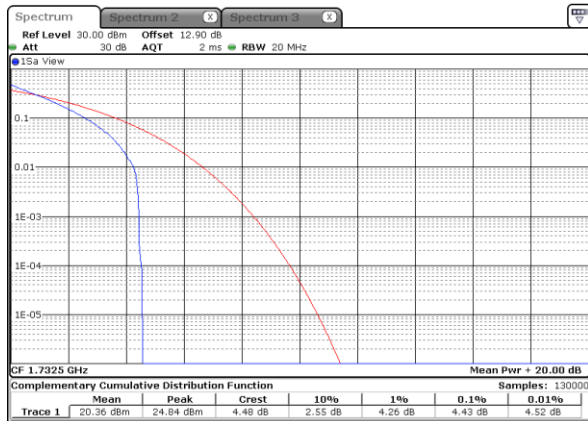
Lowest Channel / 1RB



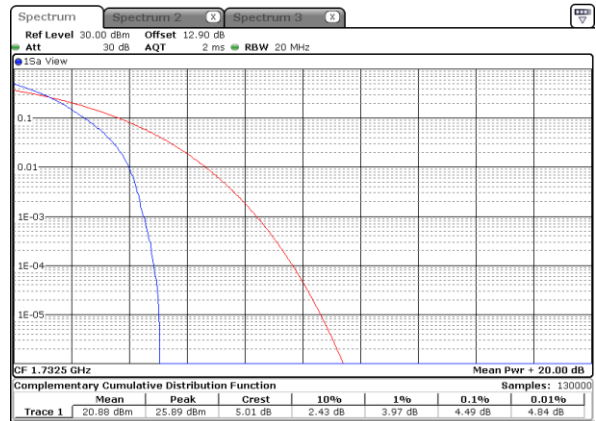
Lowest Channel / Full RB



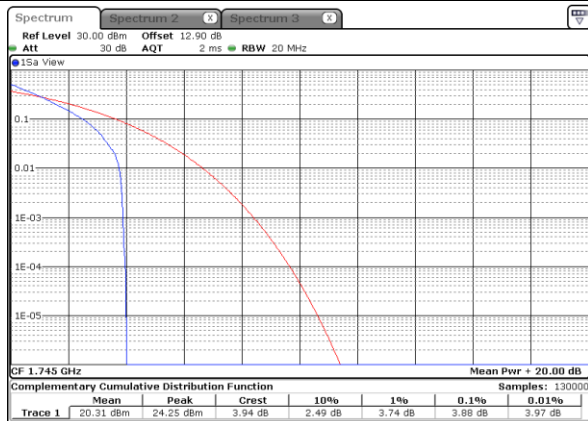
Middle Channel / 1RB



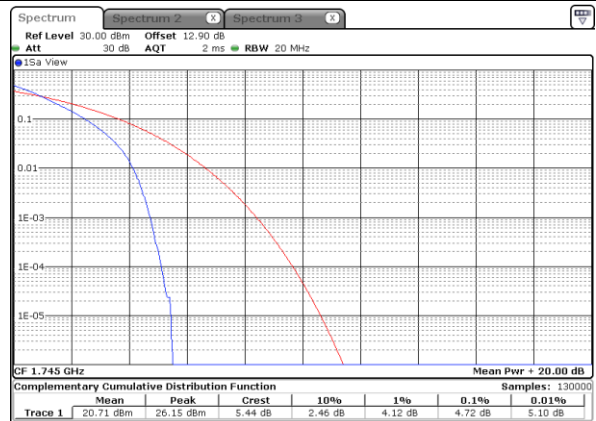
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



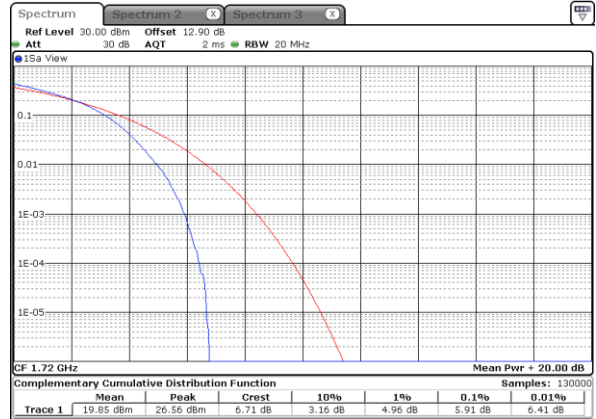


LTE Band 4 / 20MHz / 16QAM

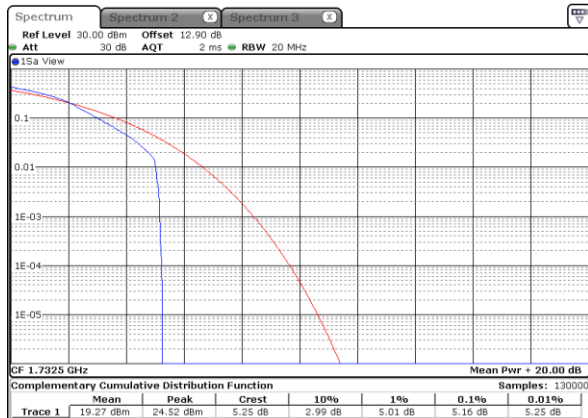
Lowest Channel / 1RB



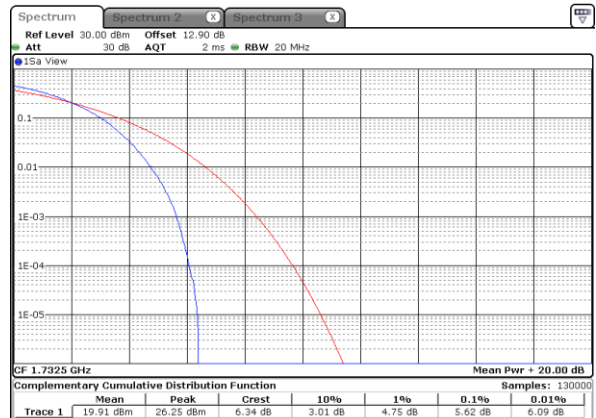
Lowest Channel / Full RB



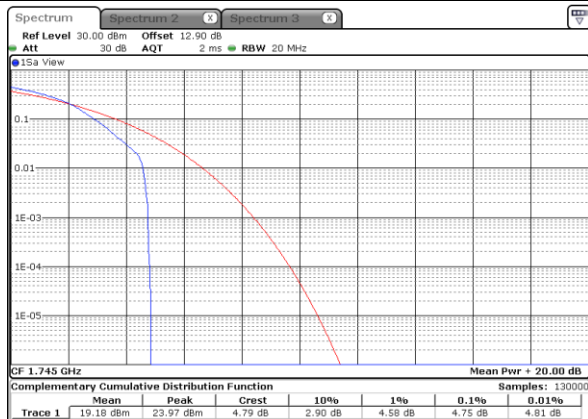
Middle Channel / 1RB



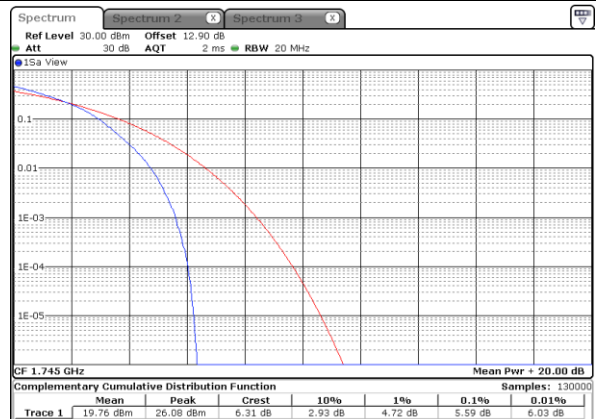
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



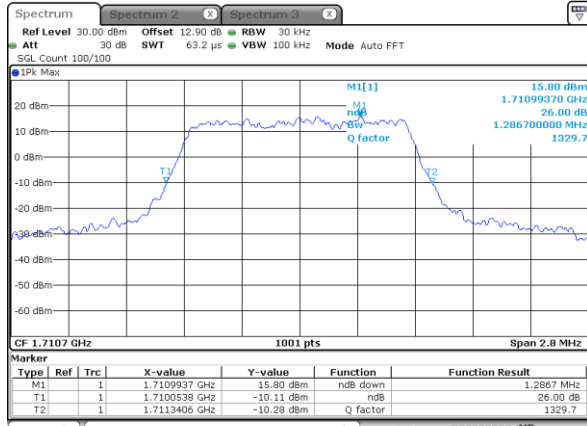
**26dB Bandwidth**

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	1.287	1.273	2.943	3.015	5.035	4.985	9.81	9.69	14.326	14.505	20.26	20.1
Middle CH	1.281	1.287	2.991	3.027	4.875	4.855	9.89	9.69	14.176	14.356	20.26	20.02
Highest CH	1.264	1.287	2.997	2.979	4.885	5.025	9.75	9.89	14.206	14.206	20.18	20.3



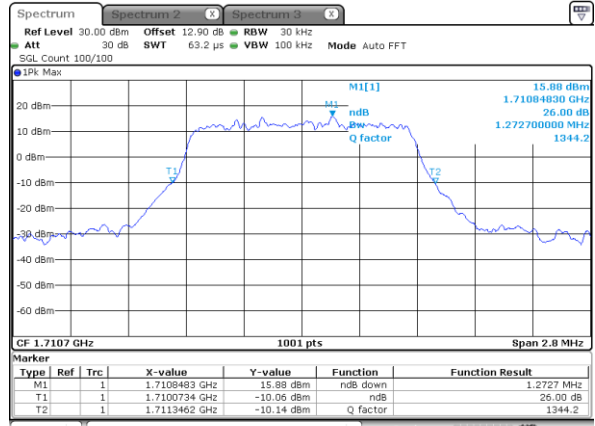
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



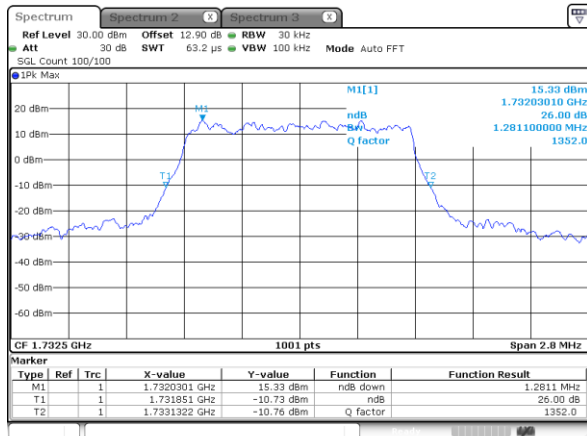
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Lowest Channel / 1.4MHz / 16QAM



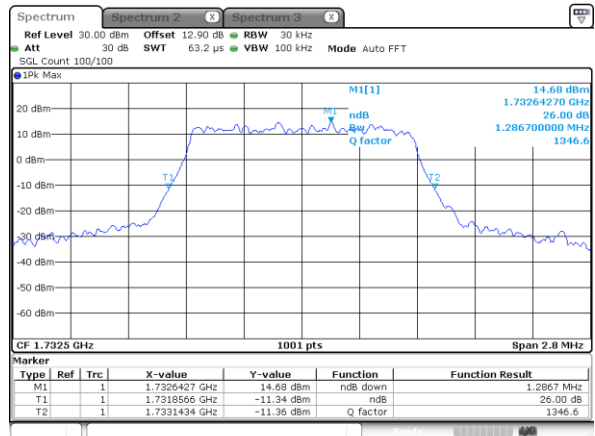
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Middle Channel / 1.4MHz / QPSK



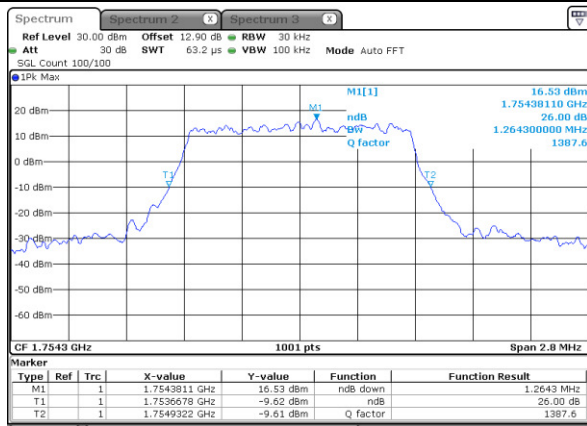
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Middle Channel / 1.4MHz / 16QAM



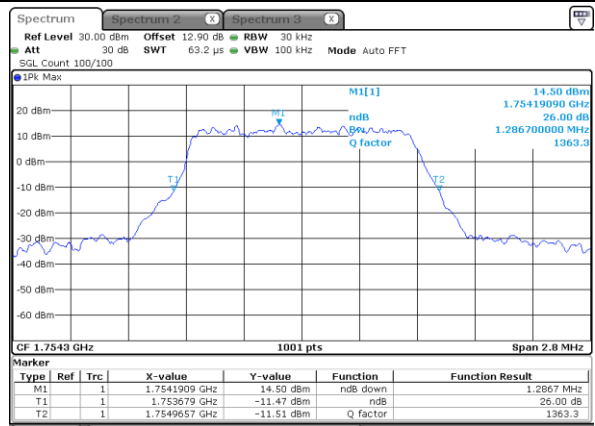
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Highest Channel / 1.4MHz / QPSK



Date: 14.JAN.2018 22:47:26

Highest Channel / 1.4MHz / 16QAM

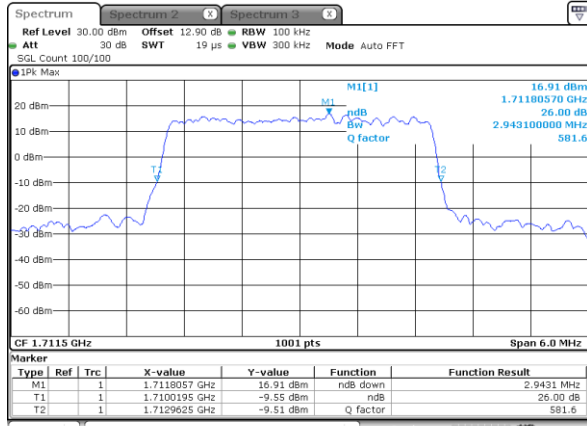


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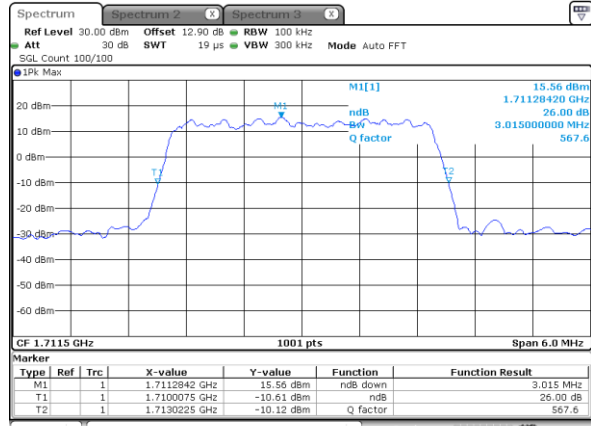
LTE Band 4

Lowest Channel / 3MHz / QPSK



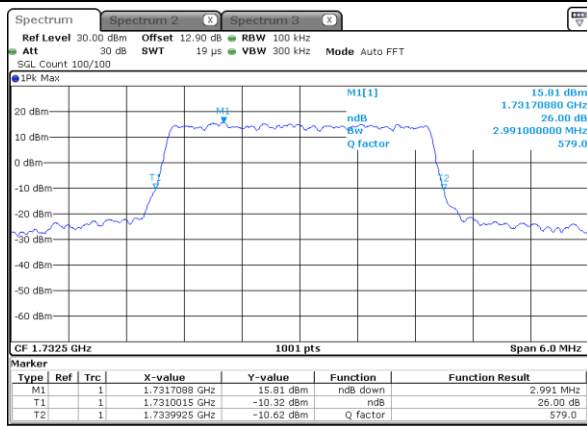
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Lowest Channel / 3MHz / 16QAM



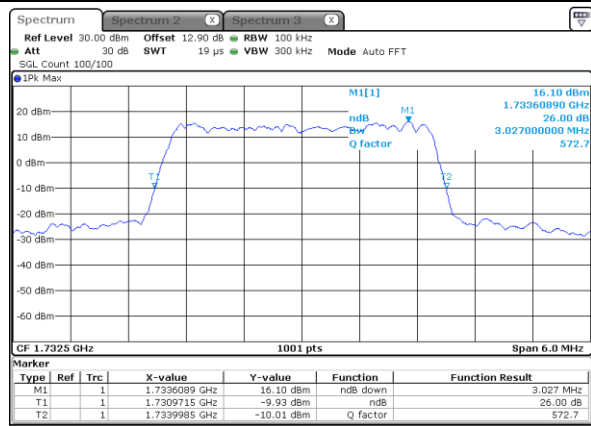
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Middle Channel / 3MHz / QPSK



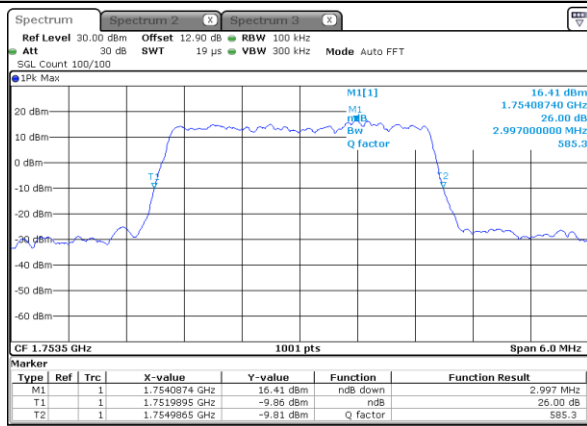
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Middle Channel / 3MHz / 16QAM



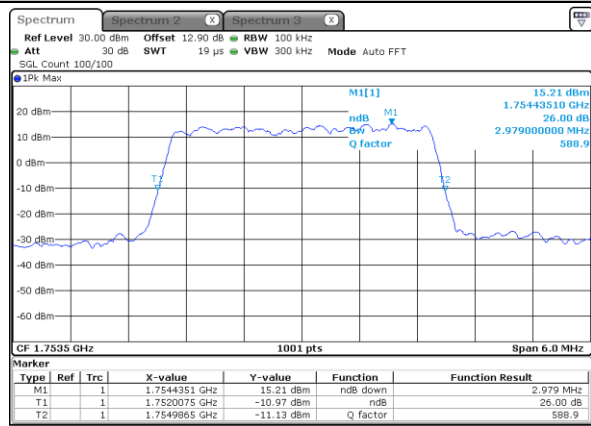
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Highest Channel / 3MHz / QPSK



Date: 14.JAN.2018 21:20:15

Highest Channel / 3MHz / 16QAM

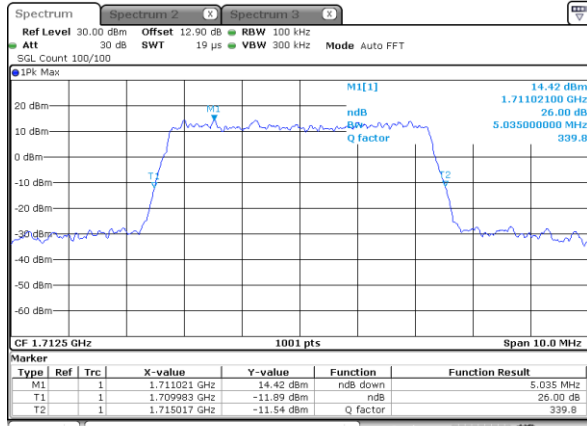


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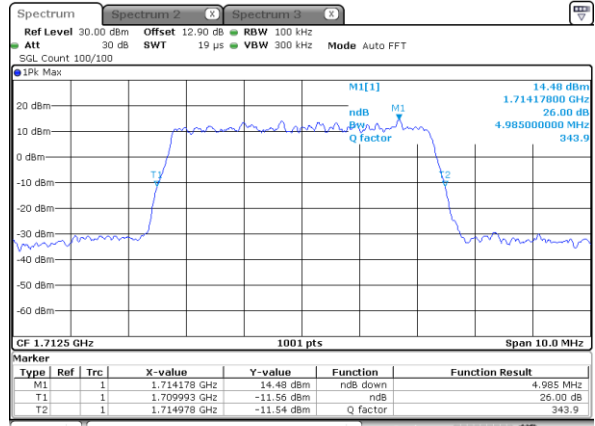
LTE Band 4

Lowest Channel / 5MHz / QPSK



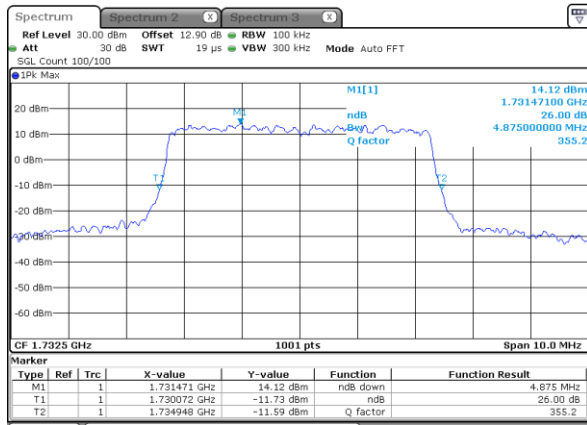
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Lowest Channel / 5MHz / 16QAM



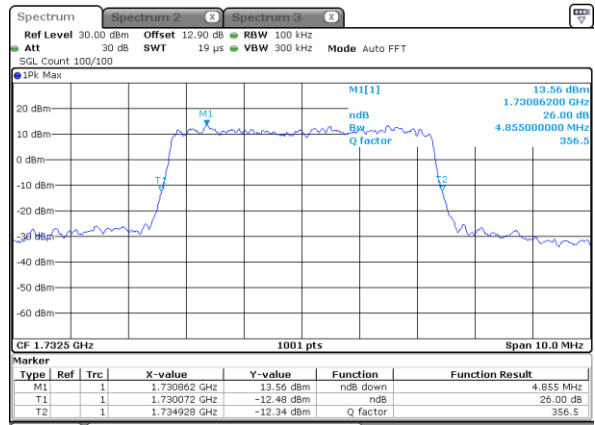
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Middle Channel / 5MHz / QPSK



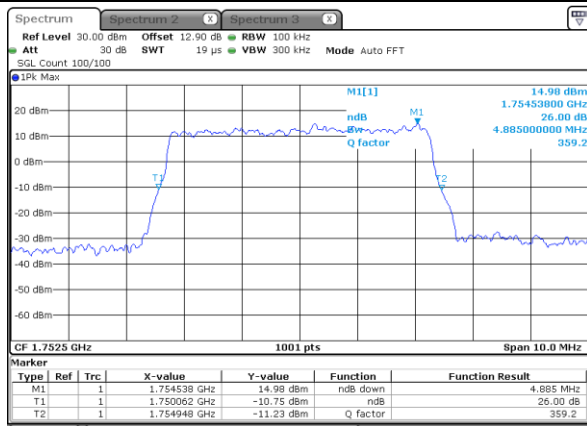
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Middle Channel / 5MHz / 16QAM



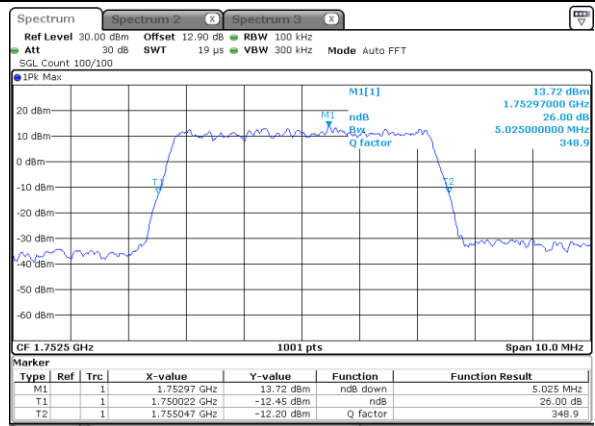
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Highest Channel / 5MHz / QPSK



Date: 14.JAN.2018 21:37:19

Highest Channel / 5MHz / 16QAM

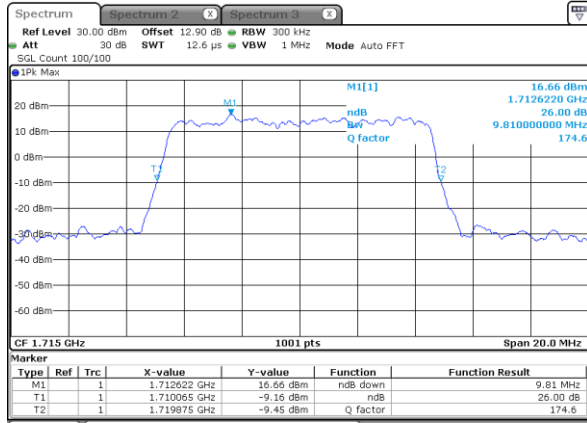


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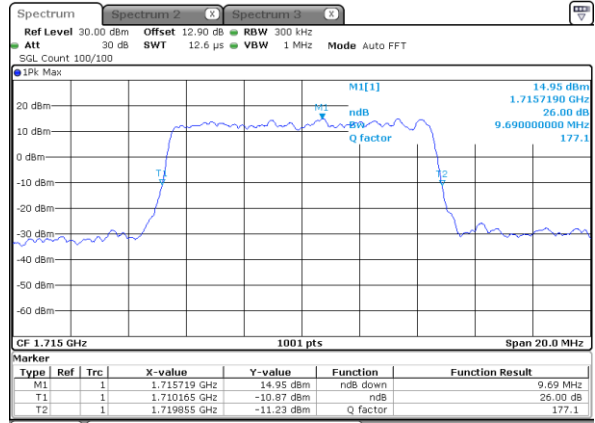
LTE Band 4

Lowest Channel / 10MHz / QPSK



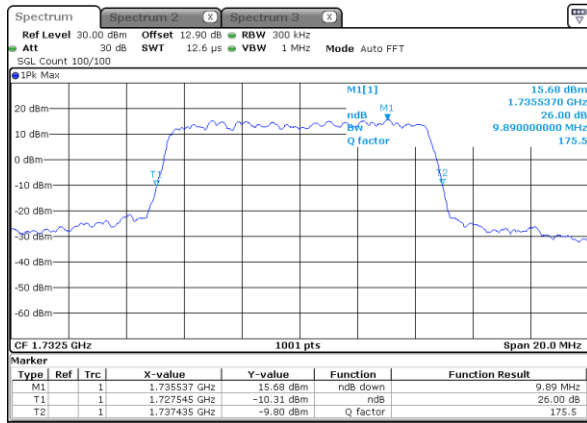
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Lowest Channel / 10MHz / 16QAM



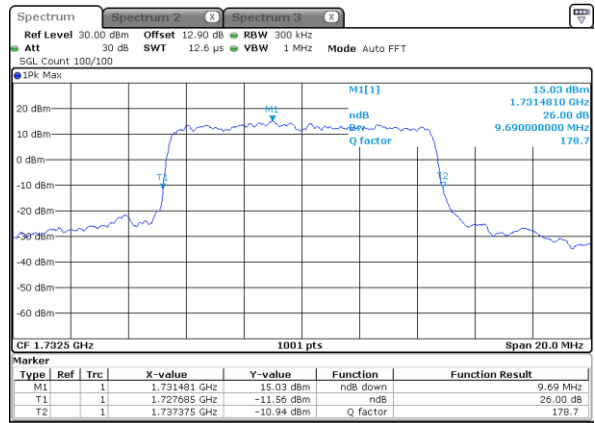
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Middle Channel / 10MHz / QPSK



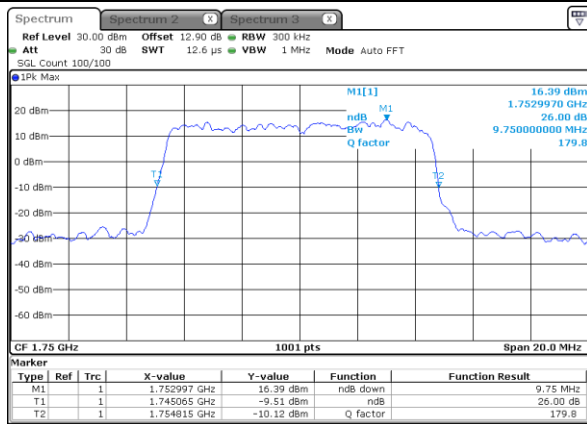
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Middle Channel / 10MHz / 16QAM



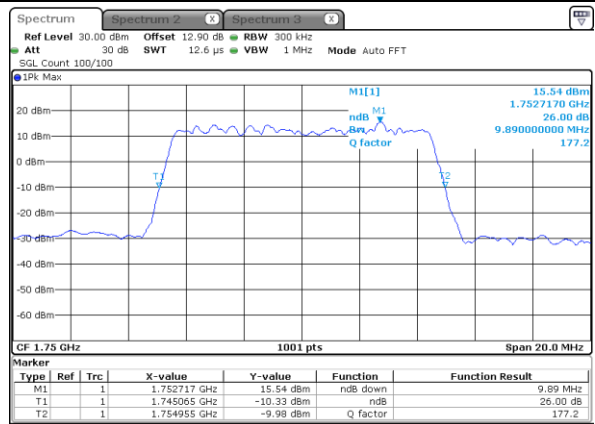
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Highest Channel / 10MHz / QPSK



Date: 14.JAN.2018 21:54:23

Highest Channel / 10MHz / 16QAM

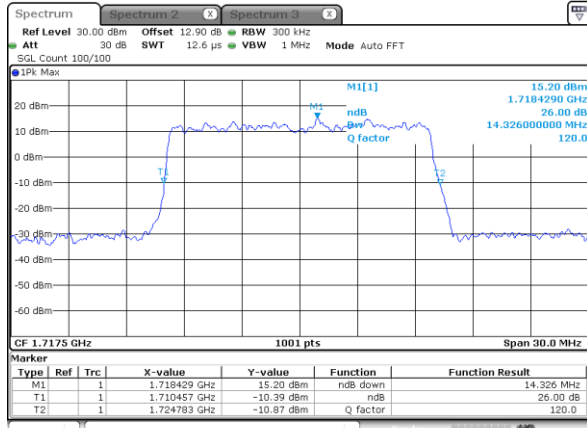


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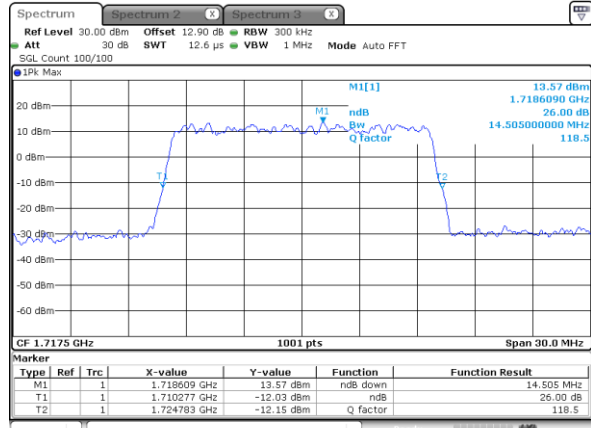
LTE Band 4

Lowest Channel / 15MHz / QPSK



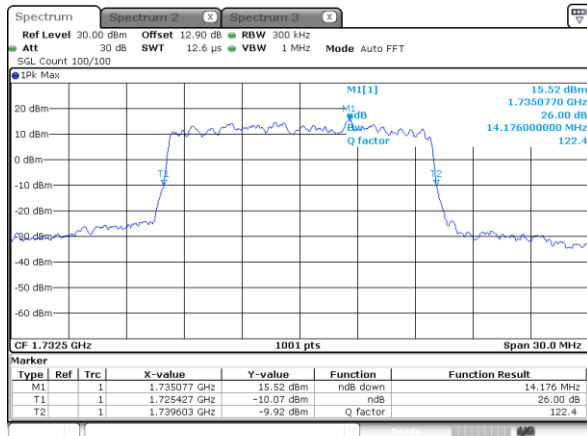
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Lowest Channel / 15MHz / 16QAM



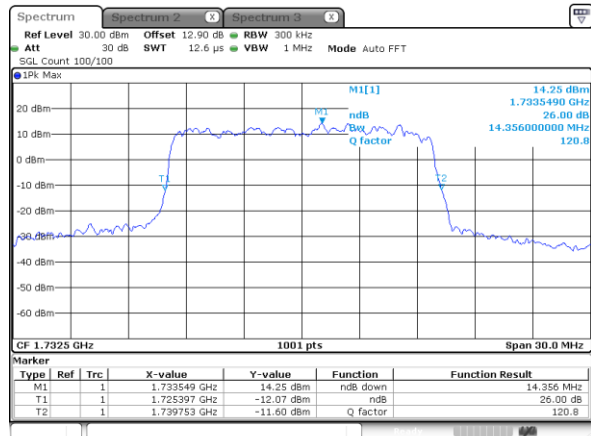
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Middle Channel / 15MHz / QPSK



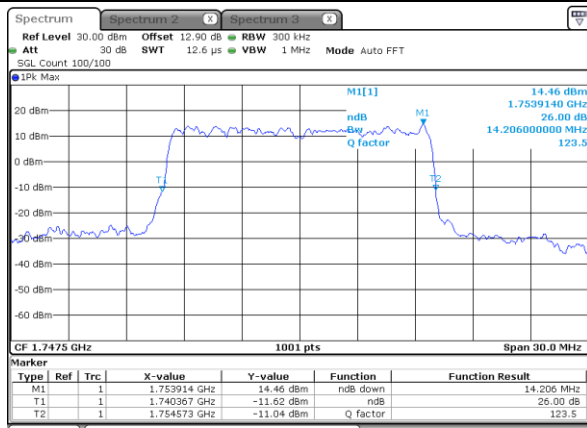
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Middle Channel / 15MHz / 16QAM



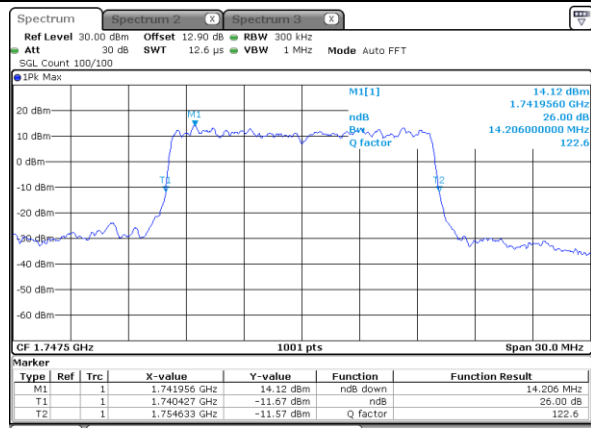
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Highest Channel / 15MHz / QPSK



Date: 14.JAN.2018 22:11:26

Highest Channel / 15MHz / 16QAM

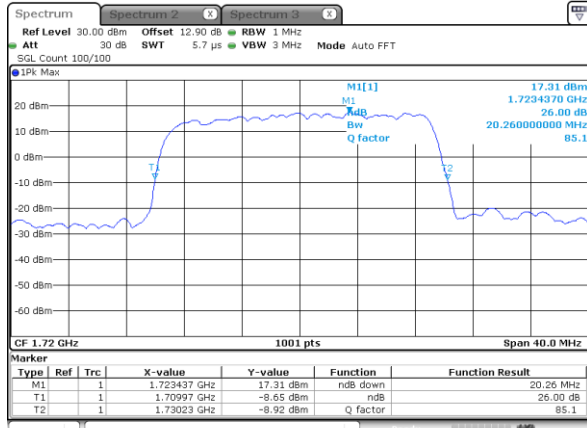


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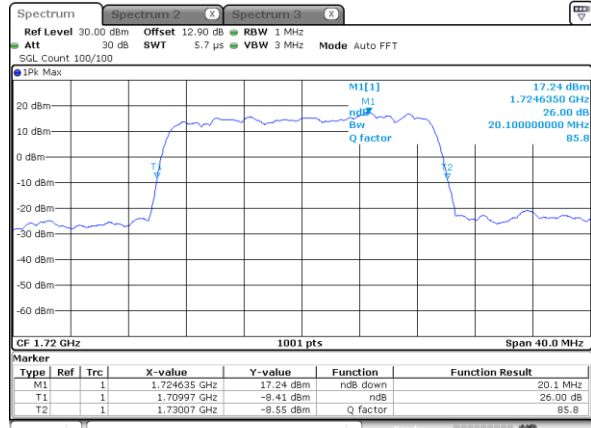
LTE Band 4

Lowest Channel / 20MHz / QPSK



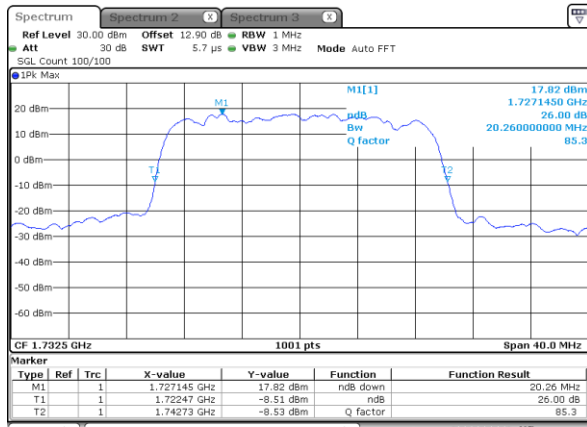
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Lowest Channel / 20MHz / 16QAM



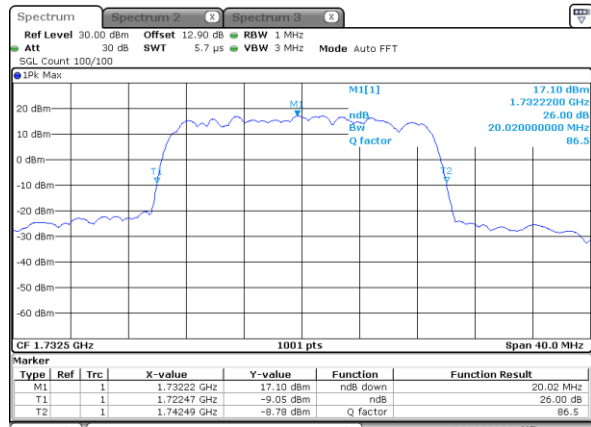
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Middle Channel / 20MHz / QPSK



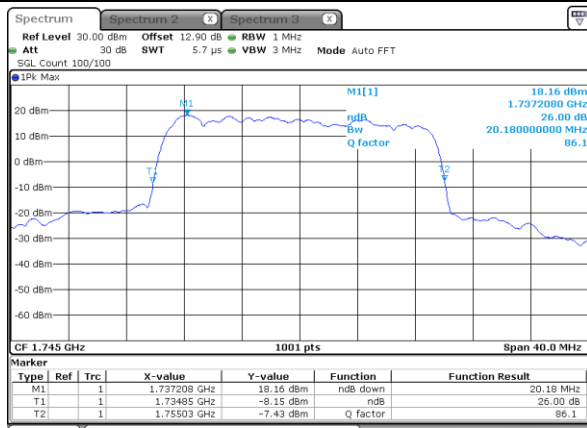
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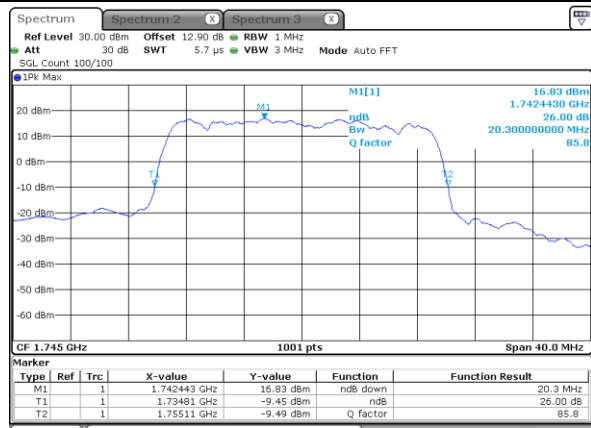
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Highest Channel / 20MHz / QPSK



Date: 14.JAN.2018 22:28:29

Highest Channel / 20MHz / 16QAM



Date: 14.JAN.2018 22:28:40

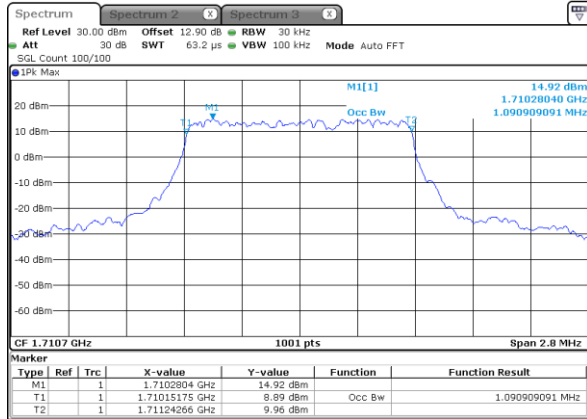
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.73	2.72	4.49	4.48	8.97	8.99	13.37	13.49	18.22	18.42
Middle CH	1.09	1.09	2.72	2.71	4.48	4.50	8.97	9.03	13.37	13.37	17.90	18.22
Highest CH	1.09	1.09	2.71	2.72	4.48	4.52	9.03	9.03	13.46	13.46	18.58	18.34

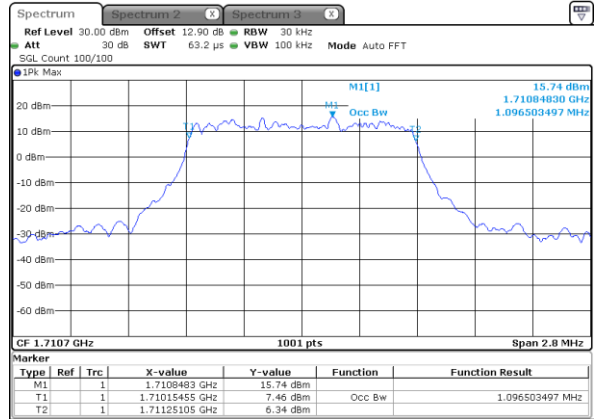


LTE Band 4

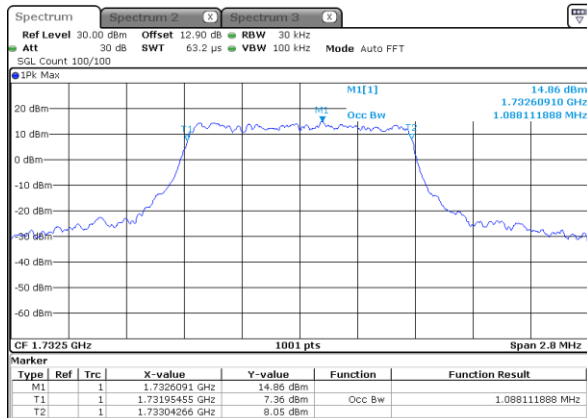
Lowest Channel / 1.4MHz / QPSK



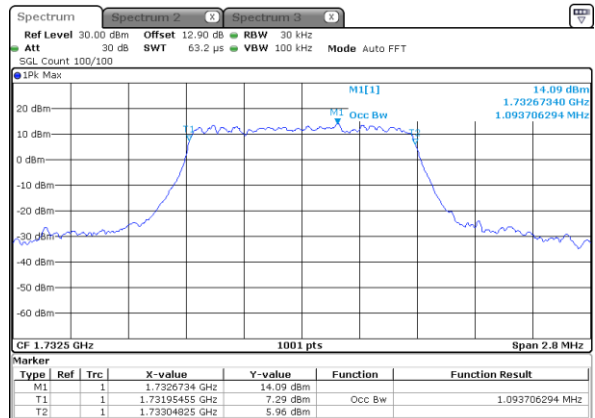
Lowest Channel / 1.4MHz / 16QAM



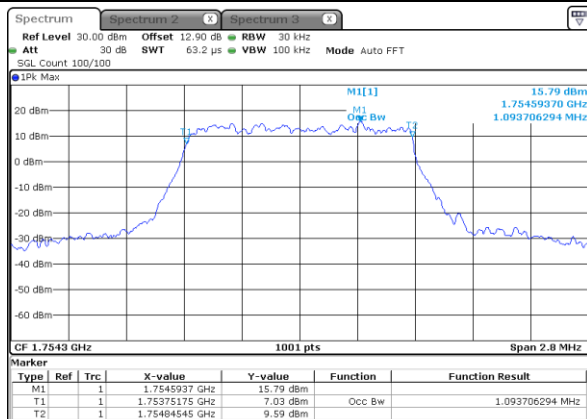
Middle Channel / 1.4MHz / QPSK



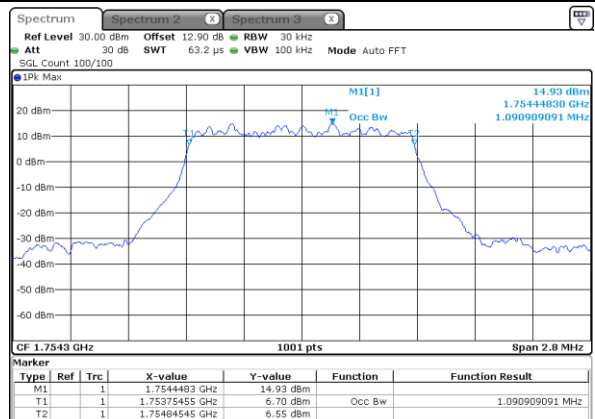
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



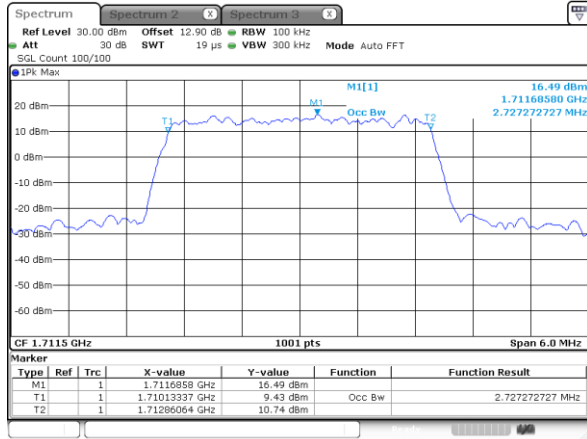
Highest Channel / 1.4MHz / 16QAM



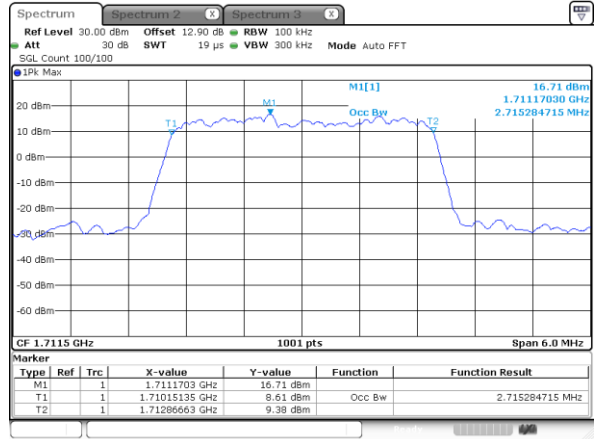


LTE Band 4

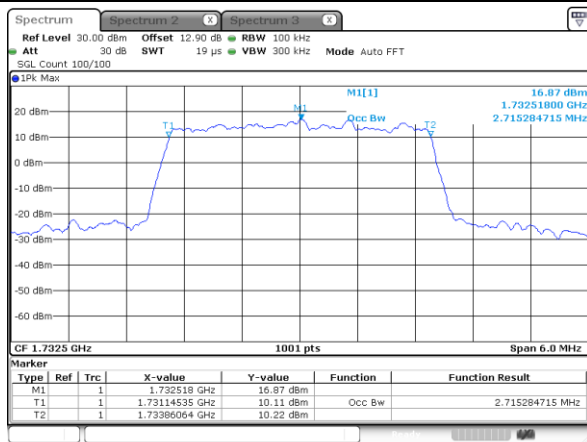
Lowest Channel / 3MHz / QPSK



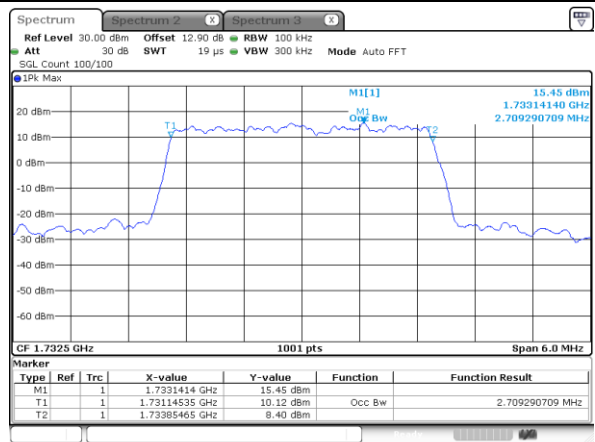
Lowest Channel / 3MHz / 16QAM



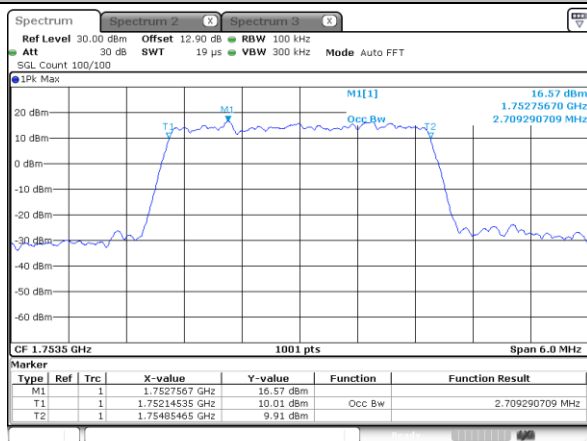
Middle Channel / 3MHz / QPSK



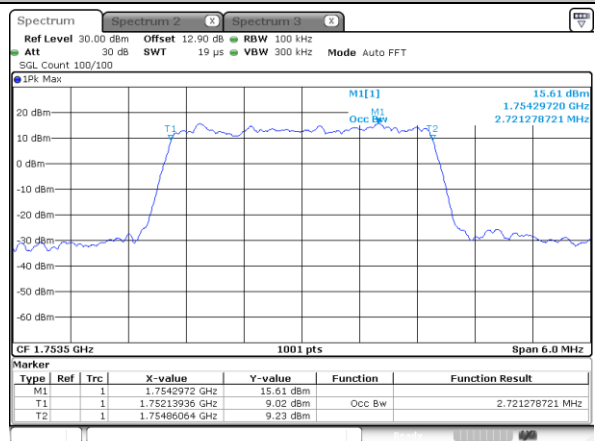
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



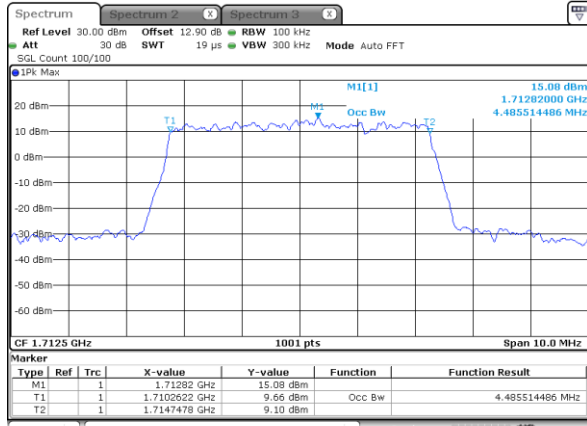
Highest Channel / 3MHz / 16QAM





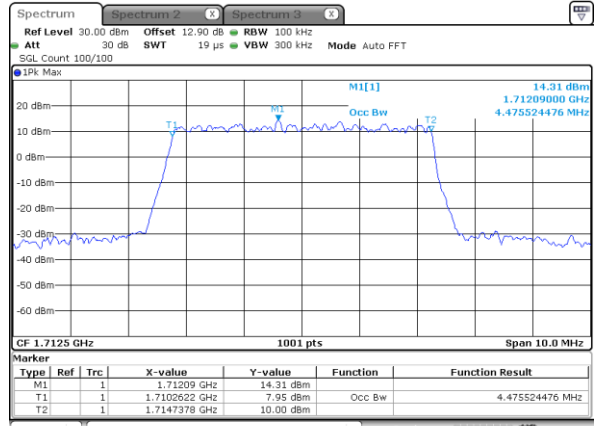
LTE Band 4

Lowest Channel / 5MHz / QPSK



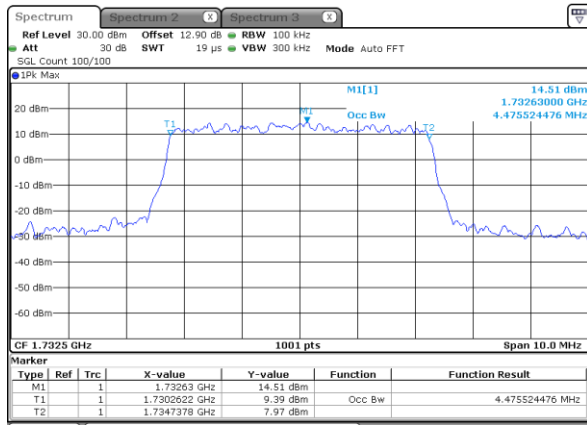
Date: 14.JAN.2018 21:27:05

Lowest Channel / 5MHz / 16QAM



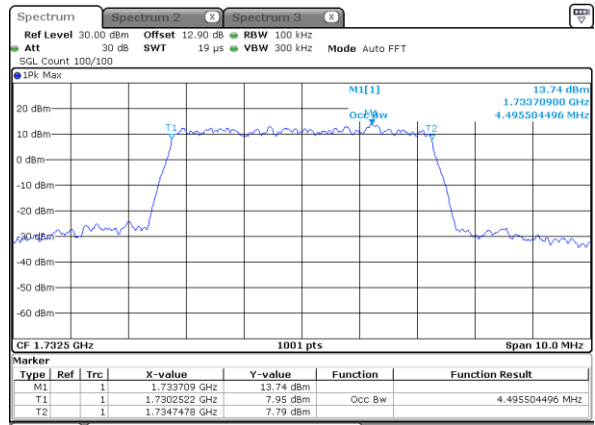
Date: 14.JAN.2018 21:27:16

Middle Channel / 5MHz / QPSK



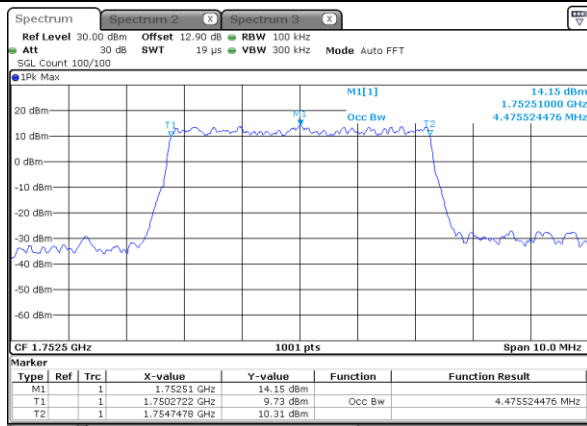
Date: 14.JAN.2018 21:34:18

Middle Channel / 5MHz / 16QAM



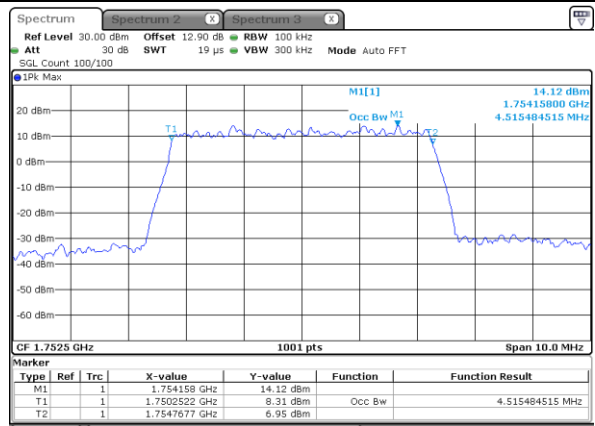
Date: 14.JAN.2018 21:34:30

Highest Channel / 5MHz / QPSK



Date: 14.JAN.2018 21:36:56

Highest Channel / 5MHz / 16QAM

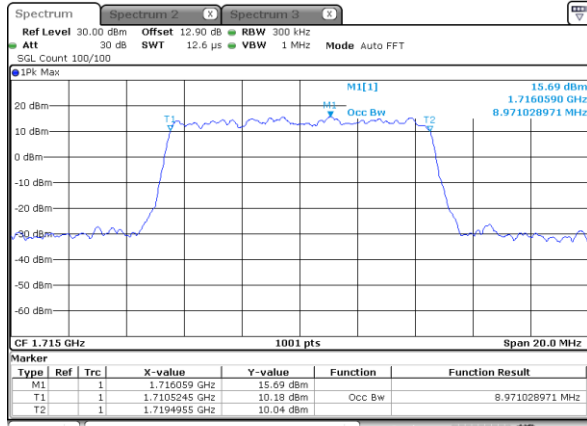


Date: 14.JAN.2018 21:37:07



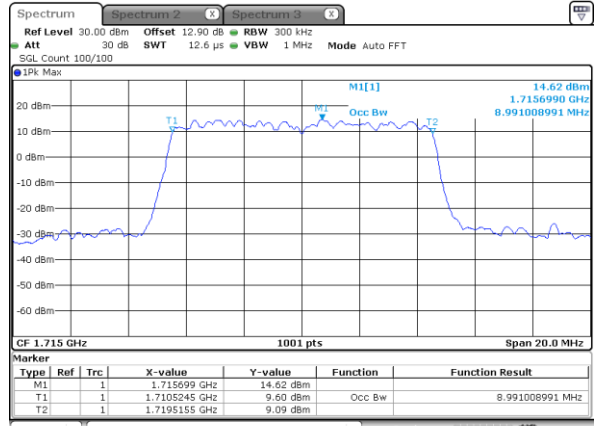
LTE Band 4

Lowest Channel / 10MHz / QPSK



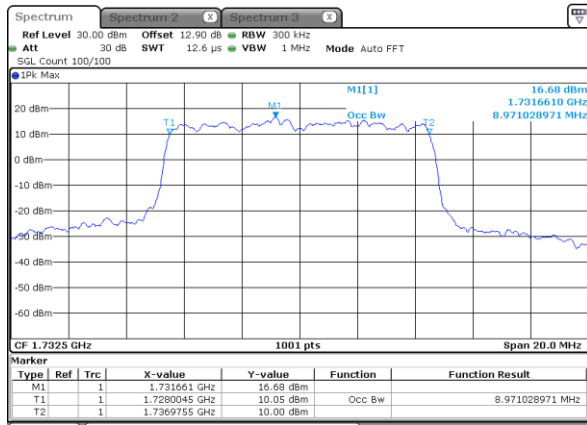
Date: 14.JAN.2018 21:44:09

Lowest Channel / 10MHz / 16QAM



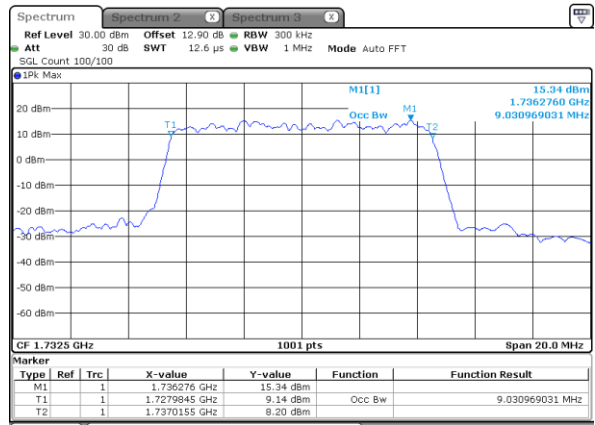
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Middle Channel / 10MHz / QPSK



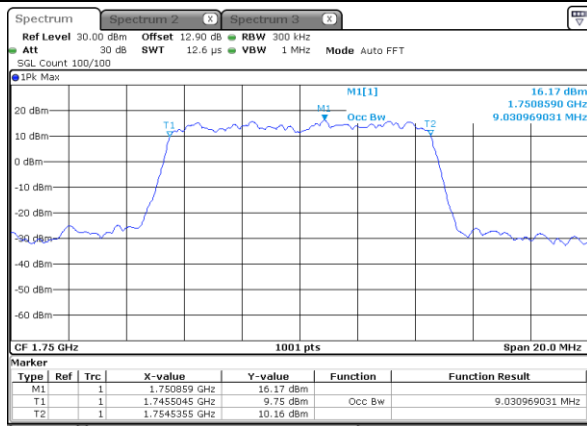
Date: 14.JAN.2018 21:51:23

Middle Channel / 10MHz / 16QAM



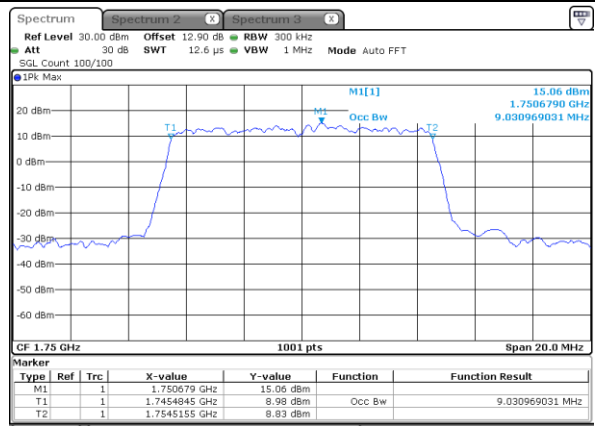
Date: 14.JAN.2018 21:51:34

Highest Channel / 10MHz / QPSK



Date: 14.JAN.2018 21:54:00

Highest Channel / 10MHz / 16QAM

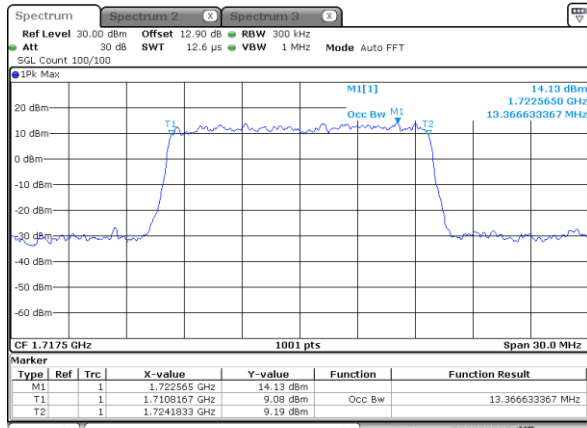


Date: 14.JAN.2018 21:54:11



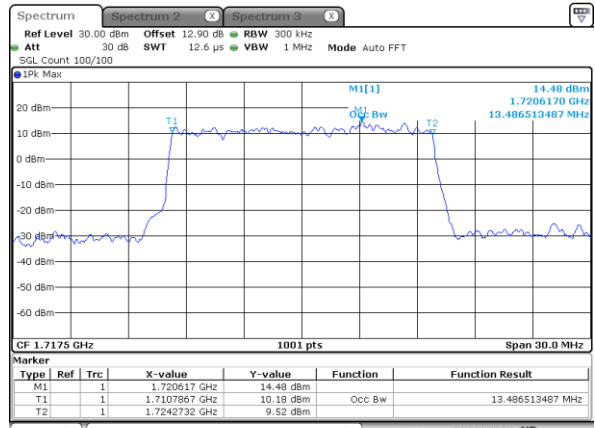
LTE Band 4

Lowest Channel / 15MHz / QPSK



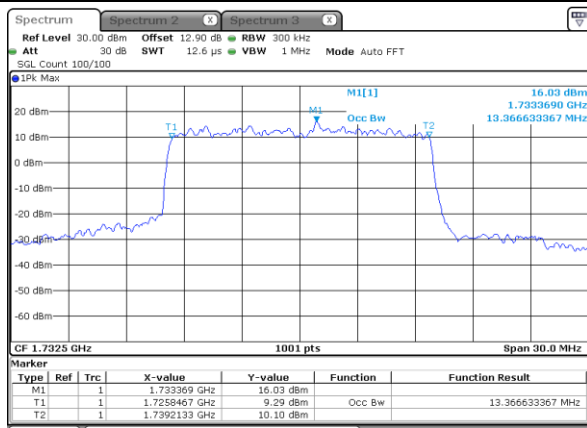
Date: 14.JAN.2018 22:01:14

Lowest Channel / 15MHz / 16QAM



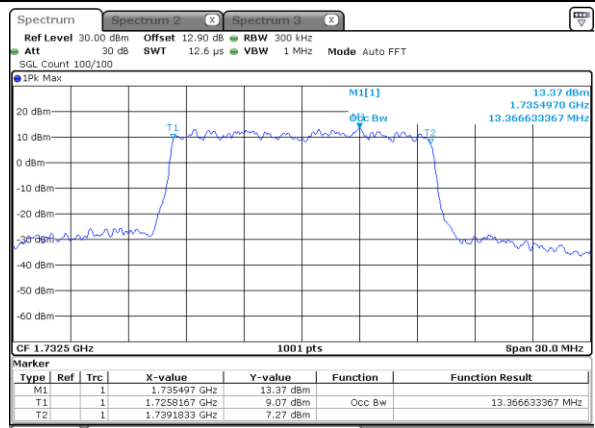
Date: 14.JAN.2018 22:01:25

Middle Channel / 15MHz / QPSK



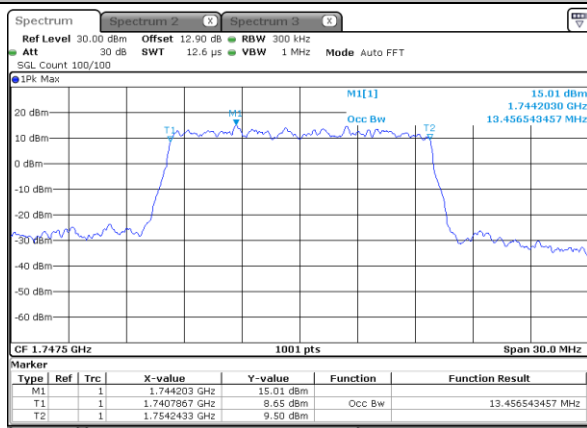
Date: 14.JAN.2018 22:08:26

Middle Channel / 15MHz / 16QAM



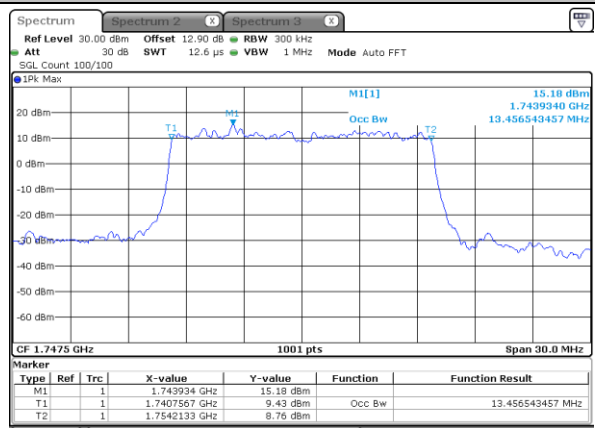
Date: 14.JAN.2018 22:08:37

Highest Channel / 15MHz / QPSK



Date: 14.JAN.2018 22:11:04

Highest Channel / 15MHz / 16QAM

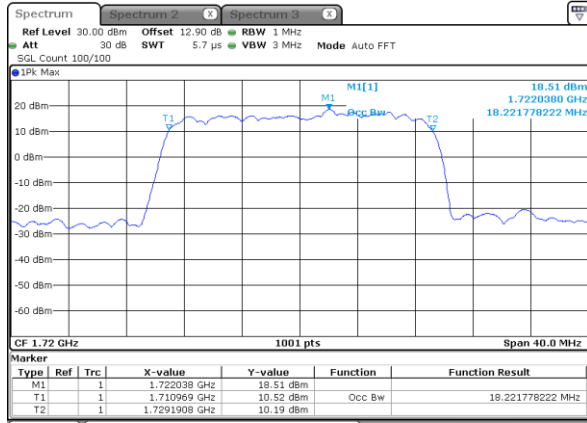


Date: 14.JAN.2018 22:11:15



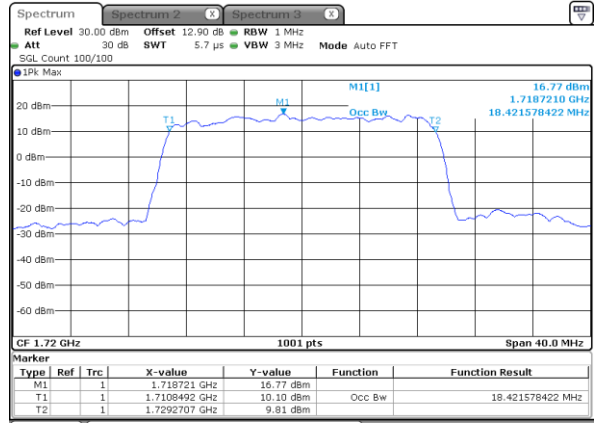
LTE Band 4

Lowest Channel / 20MHz / QPSK



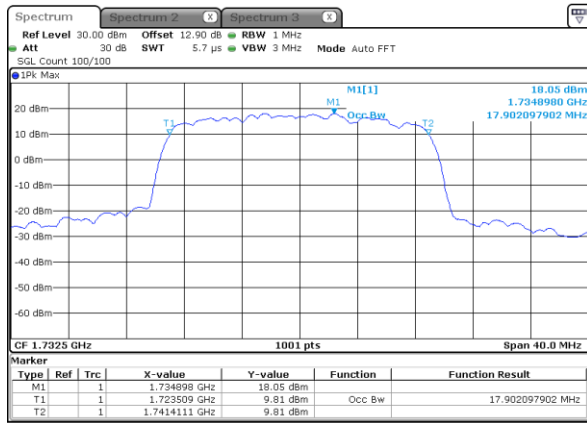
Date: 14.JAN.2018 22:18:16

Lowest Channel / 20MHz / 16QAM



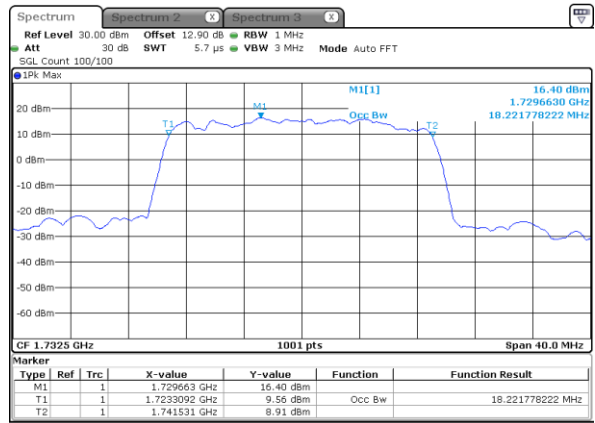
Date: 14.JAN.2018 22:18:28

Middle Channel / 20MHz / QPSK



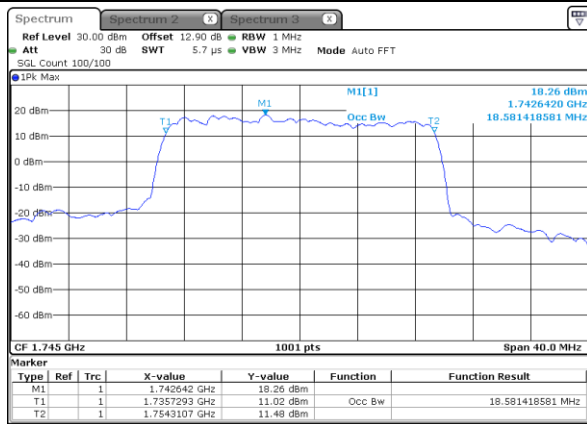
Date: 14.JAN.2018 22:25:29

Middle Channel / 20MHz / 16QAM



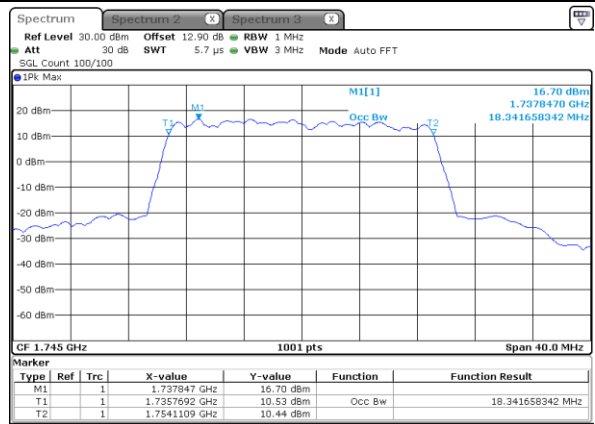
Date: 14.JAN.2018 22:25:40

Highest Channel / 20MHz / QPSK



Date: 14.JAN.2018 22:28:06

Highest Channel / 20MHz / 16QAM



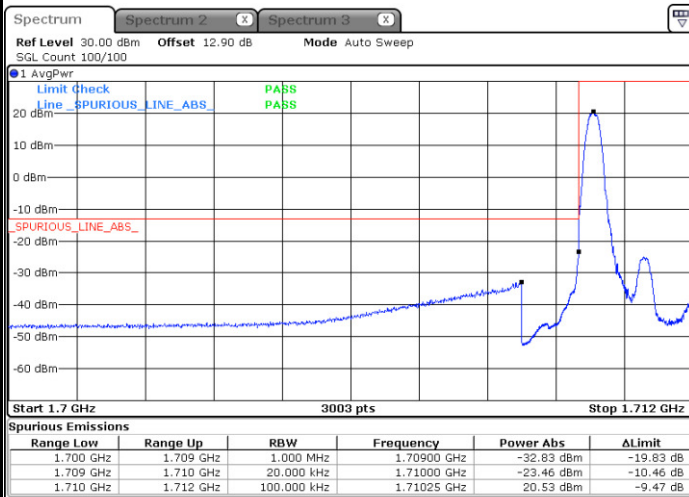
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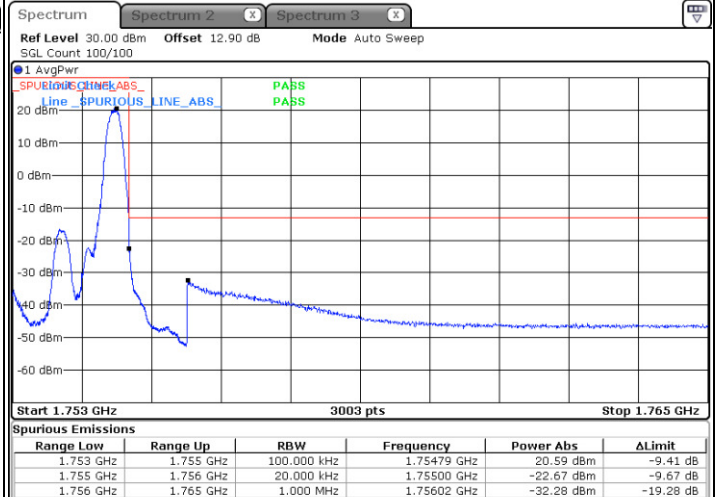
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

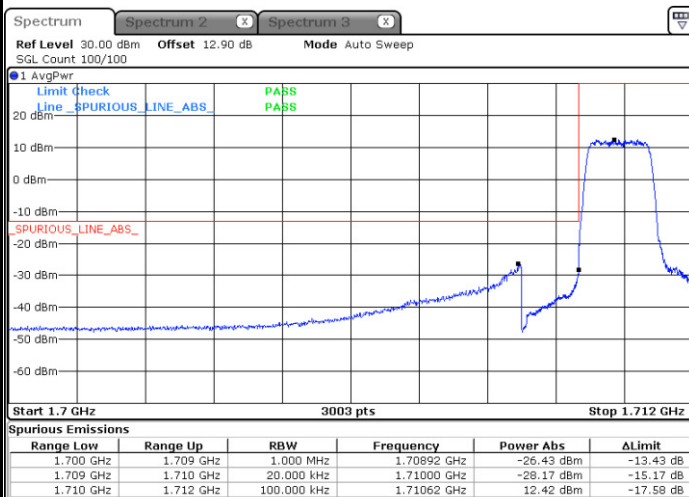
Lowest Band Edge / 1RB



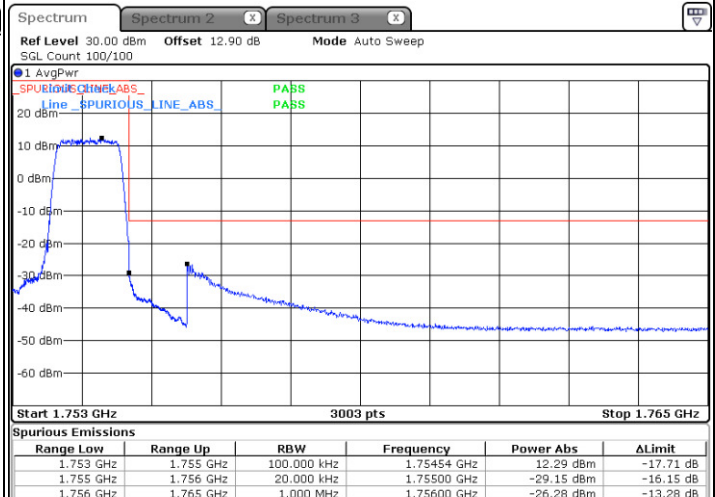
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



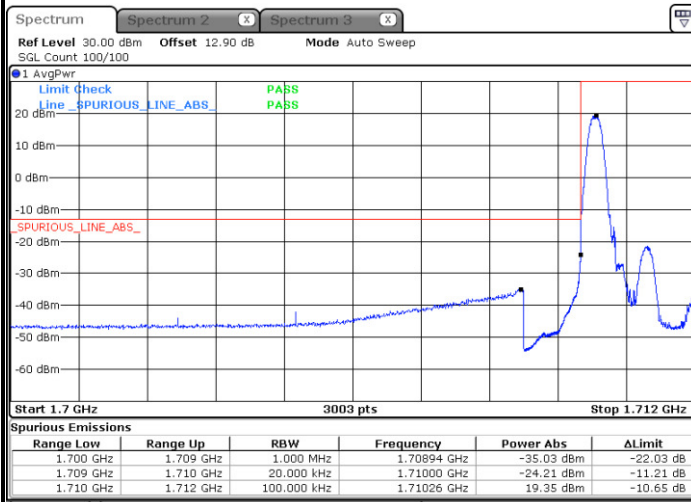
Highest Band Edge / Full RB



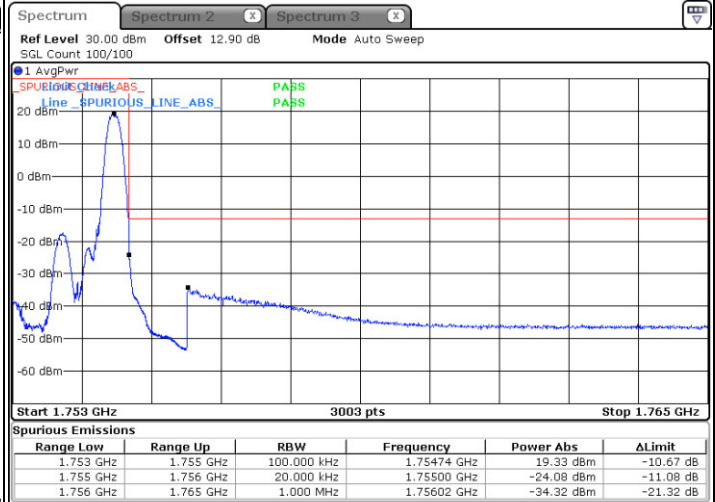


LTE Band 4 / 1.4MHz / 16QAM

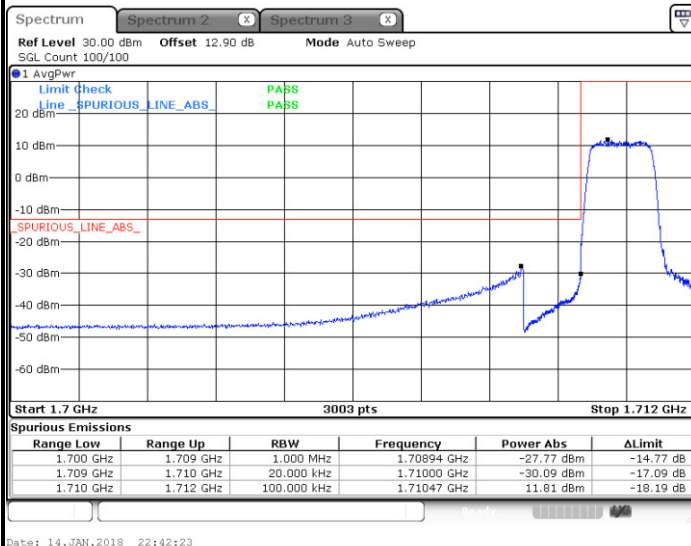
Lowest Band Edge / 1 RB



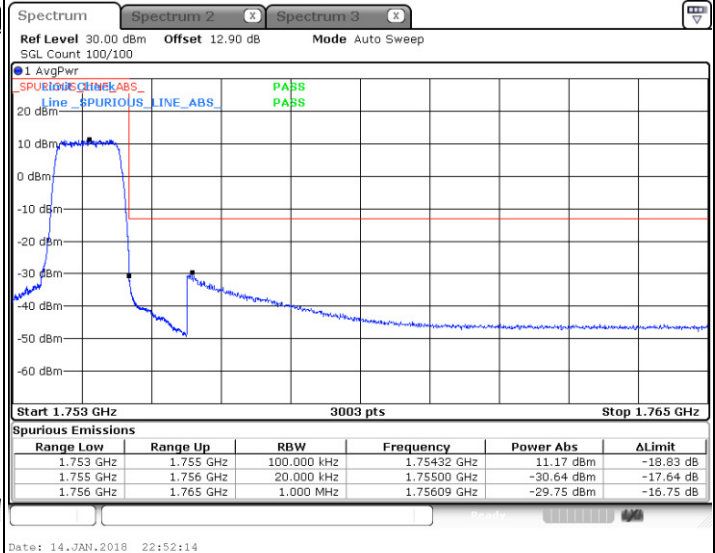
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



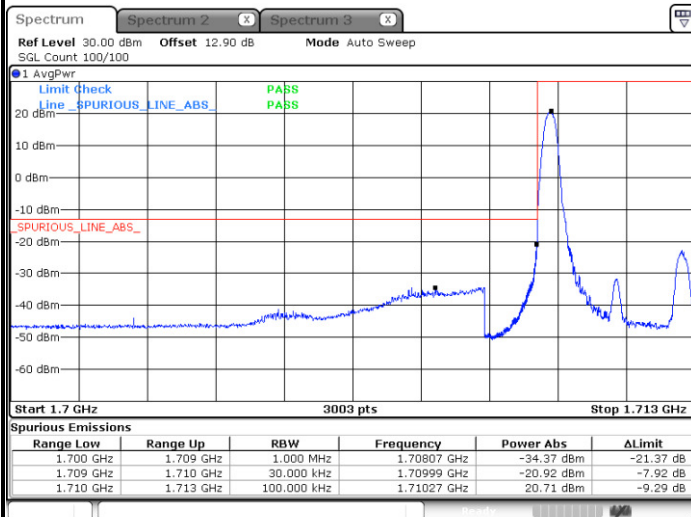
Highest Band Edge / Full RB



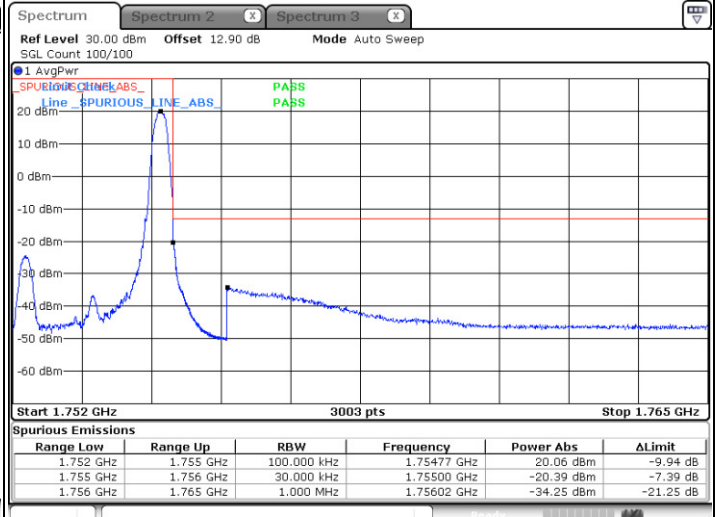


LTE Band 4 / 3MHz / QPSK

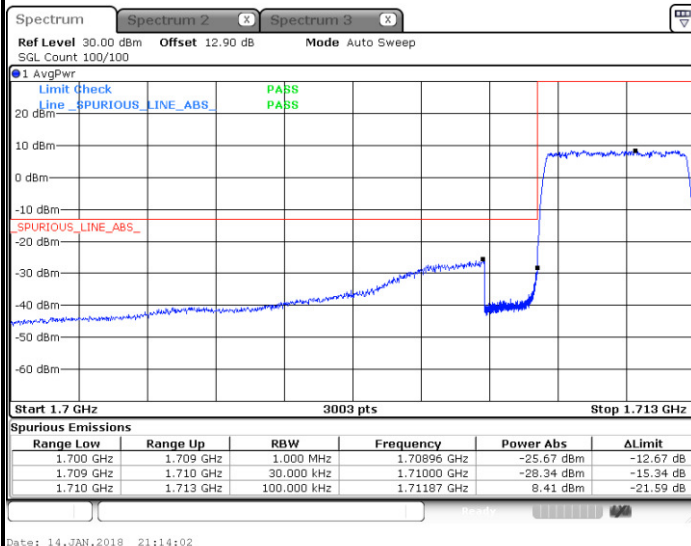
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

