



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	0.0014	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0046	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	5.04	4.49	6.03	PASS
Middle CH	3.68	5.01	4.38	6.06	
Highest CH	3.59	4.96	3.94	6.03	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.25	6.55	-	-	PASS
Middle CH	5.36	6.64	-	-	
Highest CH	5.16	6.64	-	-	



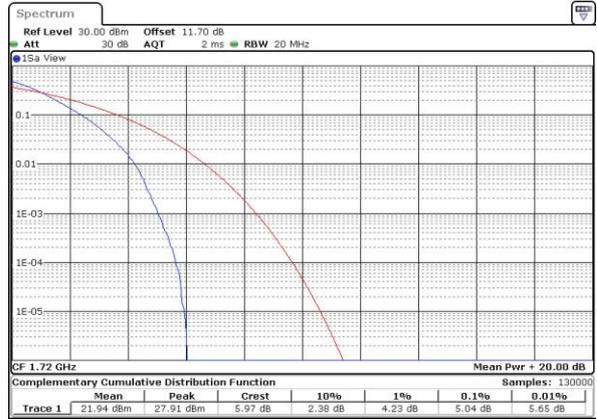
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 20 APR 2019 04:37:03

Lowest Channel / Full RB



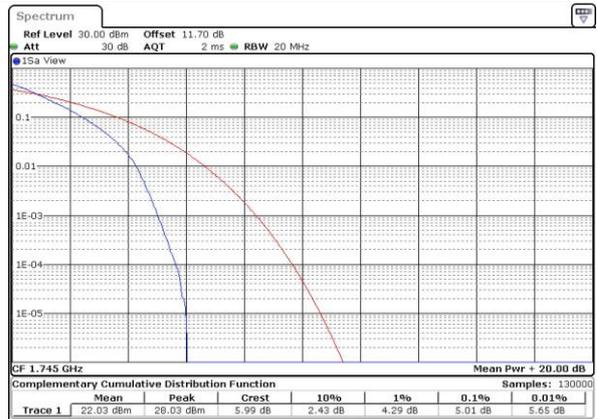
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Middle Channel / 1RB



Date: 20 APR 2019 04:37:41

Middle Channel / Full RB



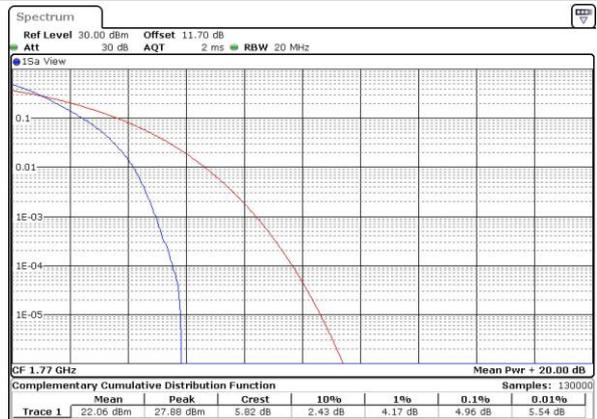
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Highest Channel / 1RB



Date: 20 APR 2019 04:38:03

Highest Channel / Full RB



Date: 20 APR 2019 04:38:14



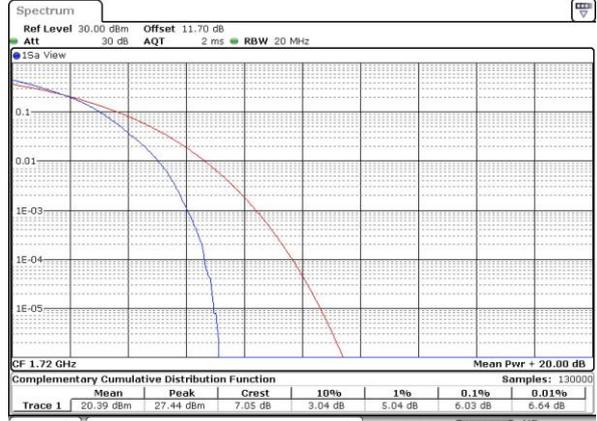
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



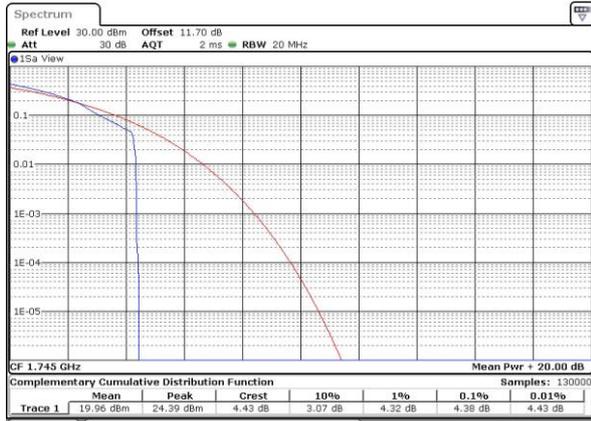
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Lowest Channel / Full RB



Date: 20 APR 2019 04:34:26

Middle Channel / 1RB



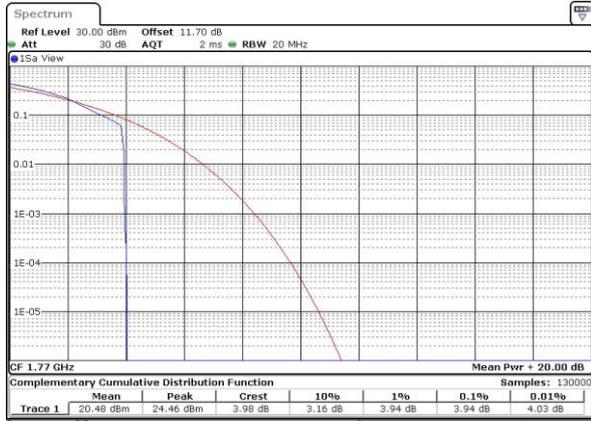
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Middle Channel / Full RB



Date: 20 APR 2019 04:35:26

Highest Channel / 1RB



Date: 20 APR 2019 04:36:33

Highest Channel / Full RB



Date: 20 APR 2019 04:36:51



LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 20 APR 2019 04:38:25

Lowest Channel / Full RB



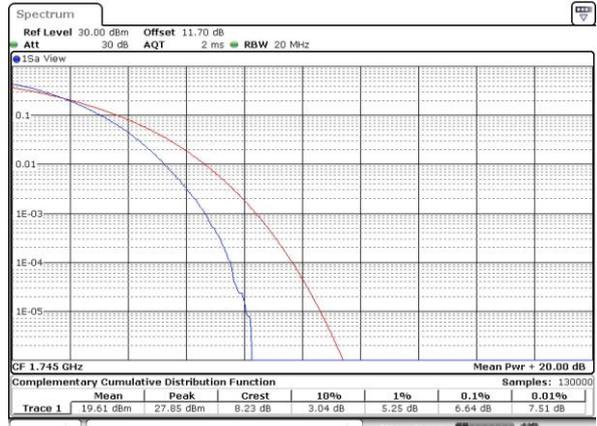
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Middle Channel / 1RB



Date: 20 APR 2019 04:39:01

Middle Channel / Full RB



Date: 20 APR 2019 04:39:13

Highest Channel / 1RB



Date: 20 APR 2019 04:39:26

Highest Channel / Full RB



Date: 20 APR 2019 04:39:37



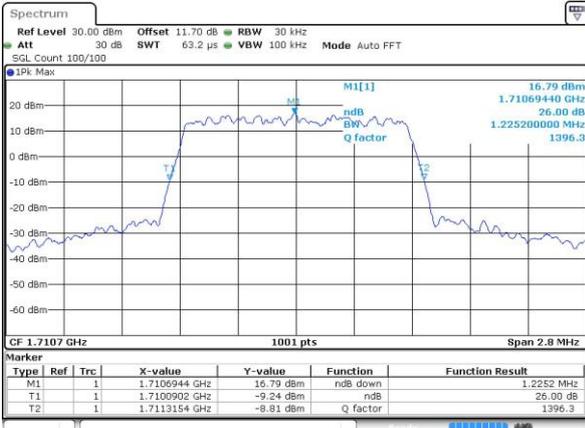
26dB Bandwidth

Mode	LTE Band 66 : 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	1.23	1.22	3.02	3.06	4.91	4.86	9.73	9.65	14.33	14.48	18.90	18.98
Middle CH	1.22	1.23	3.00	2.98	4.93	4.86	9.87	9.65	14.39	14.48	19.10	18.98
Highest CH	1.24	1.23	3.01	3.09	4.92	4.88	9.67	9.65	14.48	14.45	18.82	18.94
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.00	-	4.89	-	9.77	-	14.18	-	18.74	-
Middle CH	1.23	-	3.01	-	4.88	-	9.87	-	14.21	-	19.14	-
Highest CH	1.22	-	3.03	-	4.86	-	9.89	-	14.65	-	19.06	-



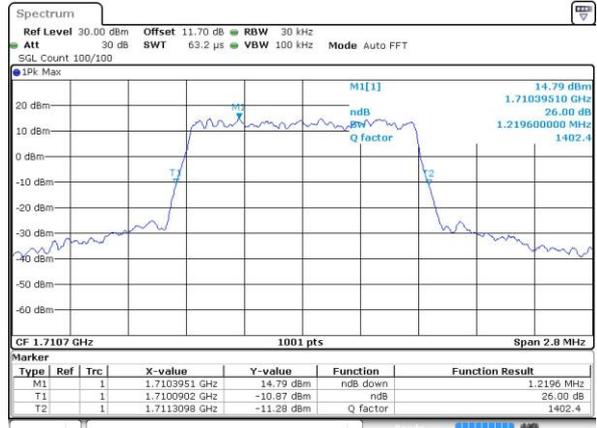
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



Date: 20 APR 2019 02:16:36

Lowest Channel / 1.4MHz / 16QAM



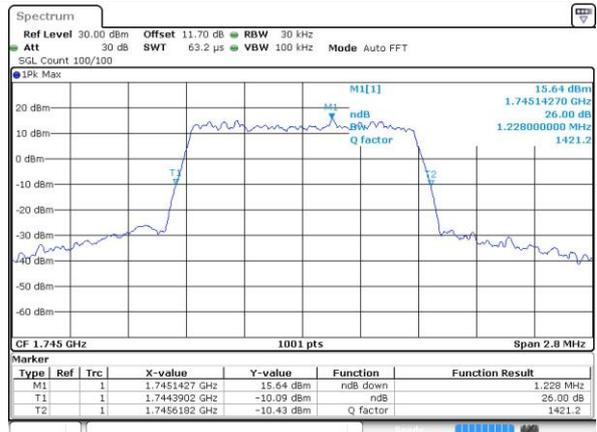
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Middle Channel / 1.4MHz / QPSK



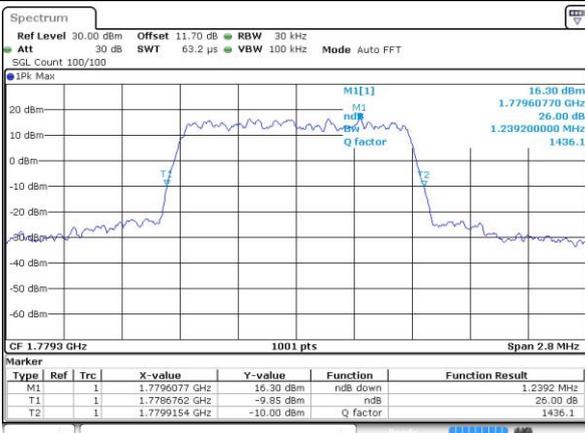
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Middle Channel / 1.4MHz / 16QAM



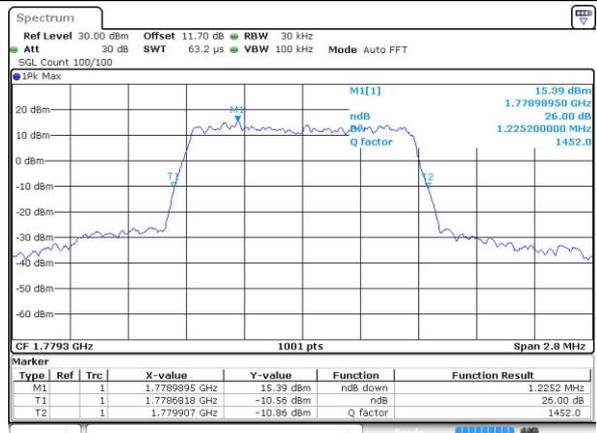
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Highest Channel / 1.4MHz / QPSK



Date: 20 APR 2019 02:25:22

Highest Channel / 1.4MHz / 16QAM

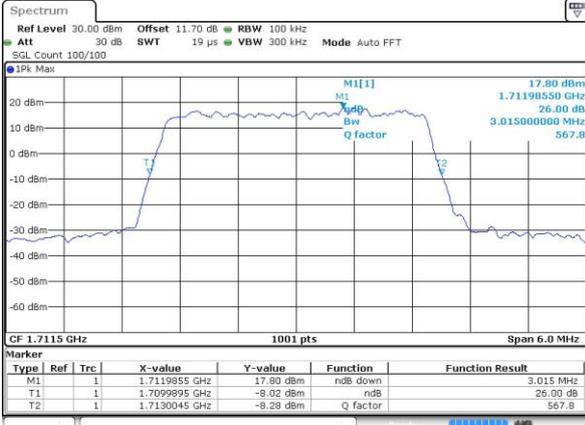


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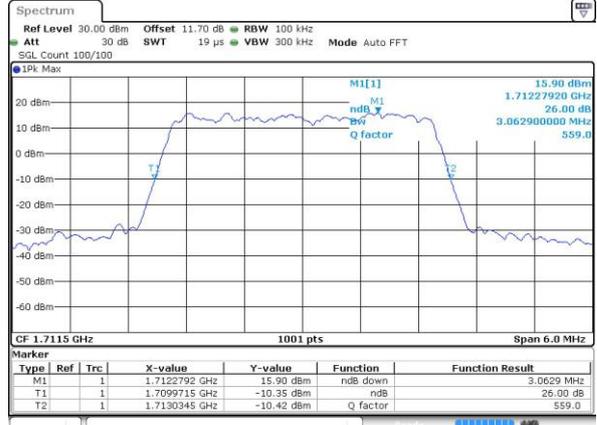
LTE Band 66

Lowest Channel / 3MHz / QPSK



Date: 20 APR 2019 02:39:31

Lowest Channel / 3MHz / 16QAM



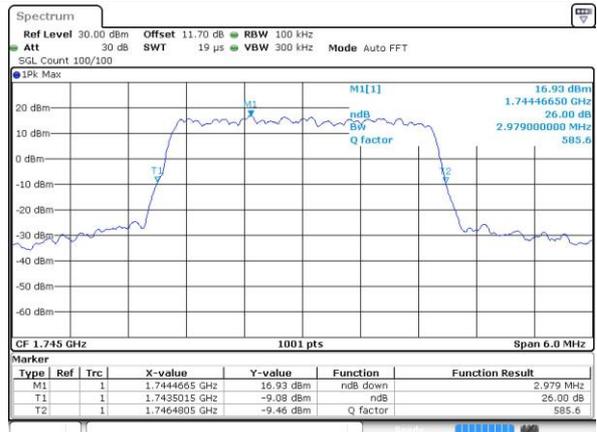
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Middle Channel / 3MHz / QPSK



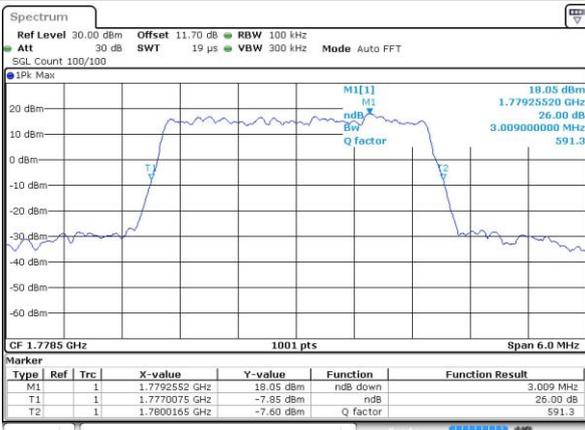
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Middle Channel / 3MHz / 16QAM



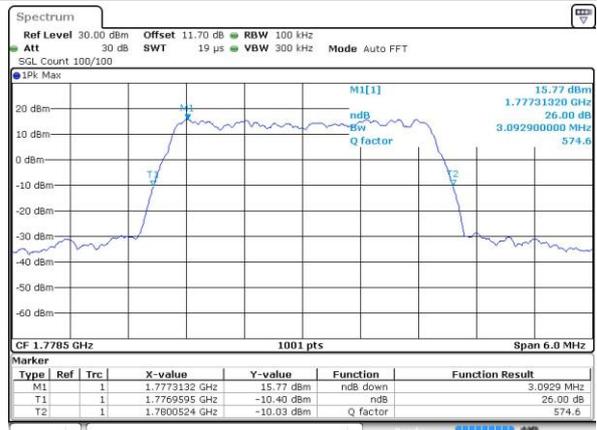
Date: 20 APR 2019 02:46:02

Highest Channel / 3MHz / QPSK



Date: 20 APR 2019 02:48:04

Highest Channel / 3MHz / 16QAM

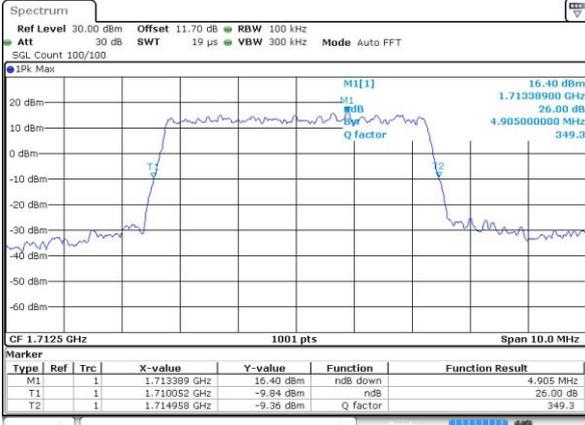


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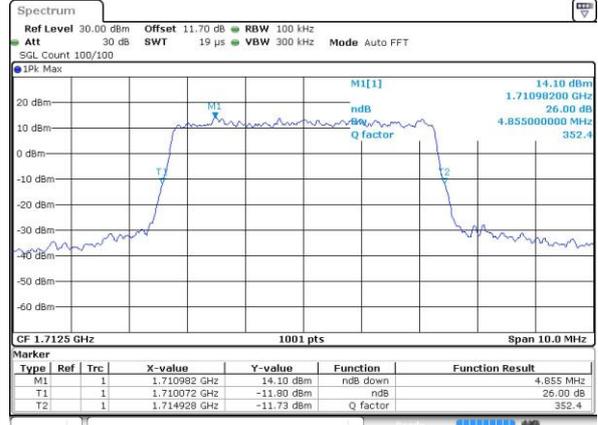


LTE Band 66

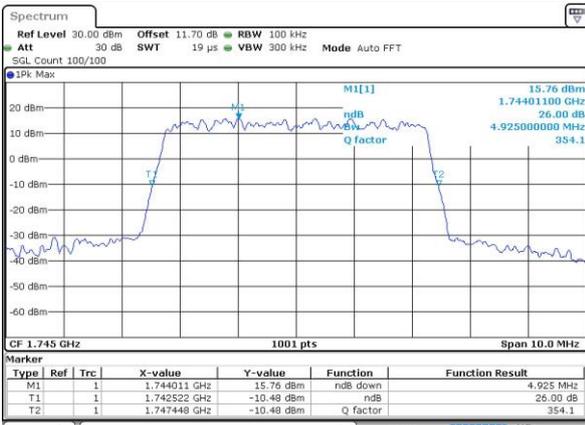
Lowest Channel / 5MHz / QPSK



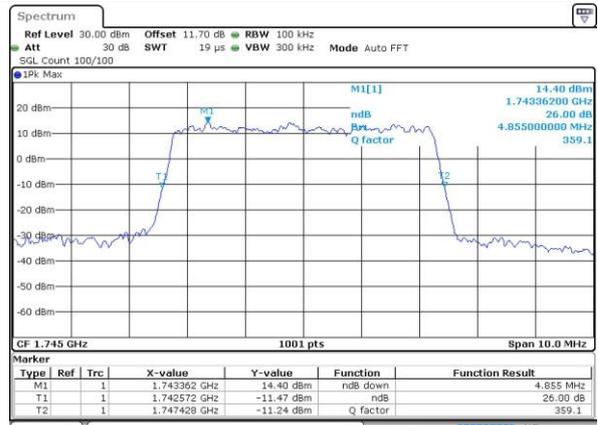
Lowest Channel / 5MHz / 16QAM



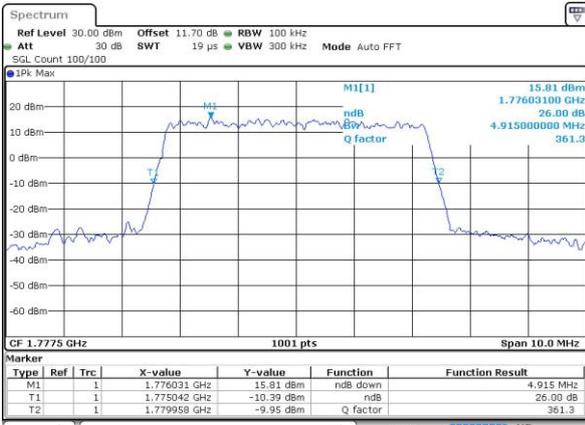
Middle Channel / 5MHz / QPSK



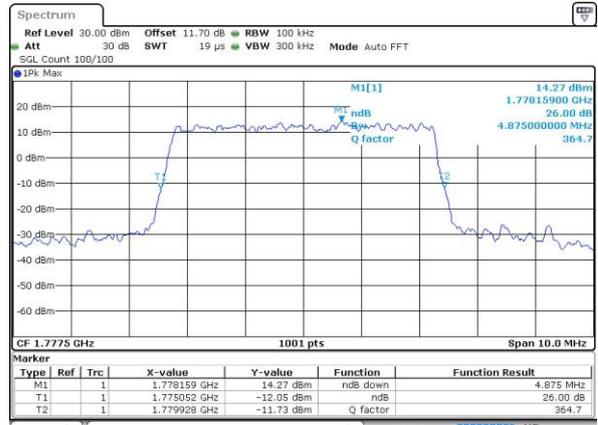
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



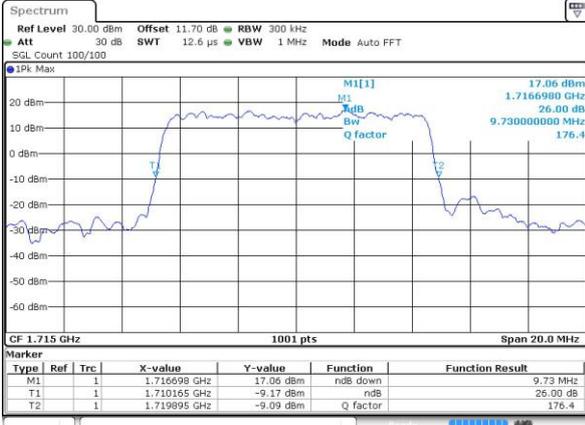
Highest Channel / 5MHz / 16QAM





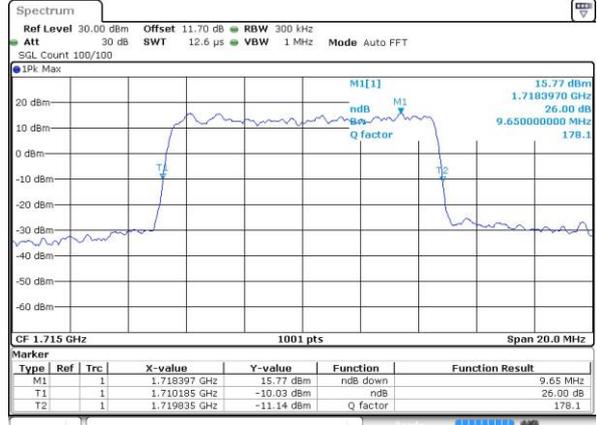
LTE Band 66

Lowest Channel / 10MHz / QPSK



Date: 20 APR 2019 03:24:02

Lowest Channel / 10MHz / 16QAM



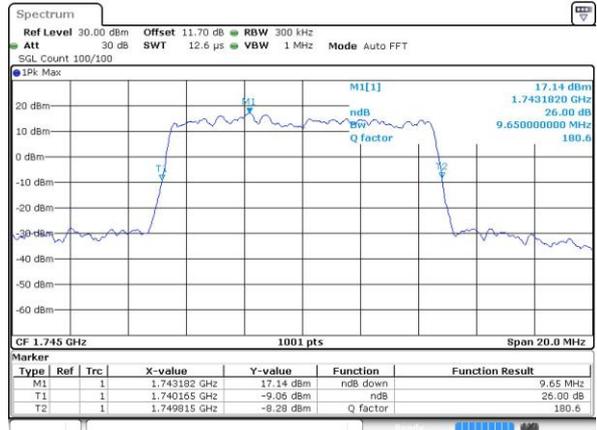
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Middle Channel / 10MHz / QPSK



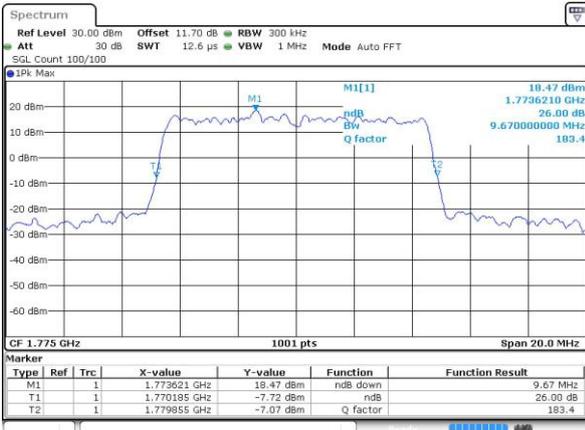
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Middle Channel / 10MHz / 16QAM



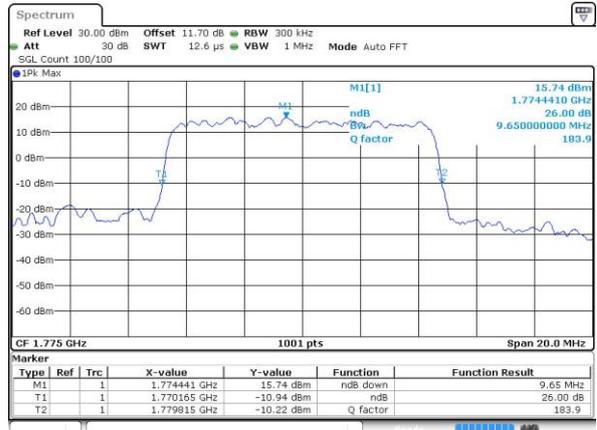
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Highest Channel / 10MHz / QPSK



Date: 20 APR 2019 03:32:35

Highest Channel / 10MHz / 16QAM

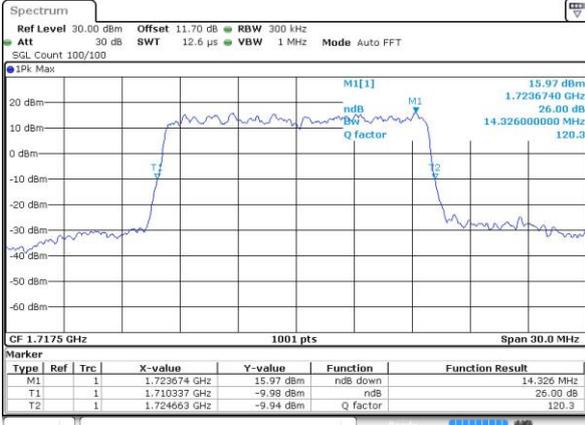


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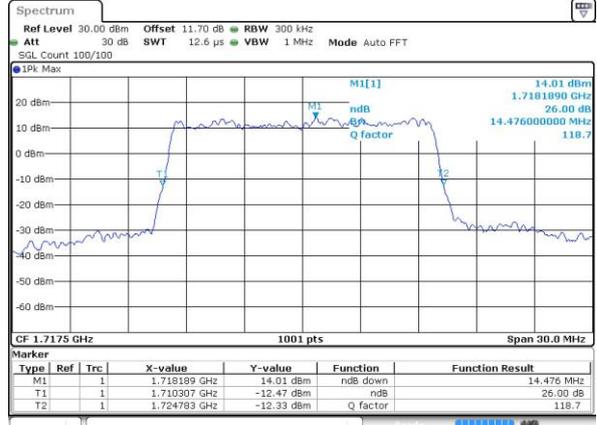
LTE Band 66

Lowest Channel / 15MHz / QPSK



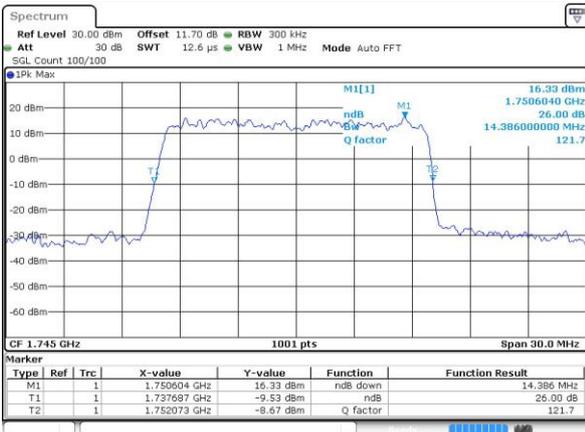
Date: 20 APR 2019 03:53:44

Lowest Channel / 15MHz / 16QAM



Date: 20 APR 2019 03:53:56

Middle Channel / 15MHz / QPSK



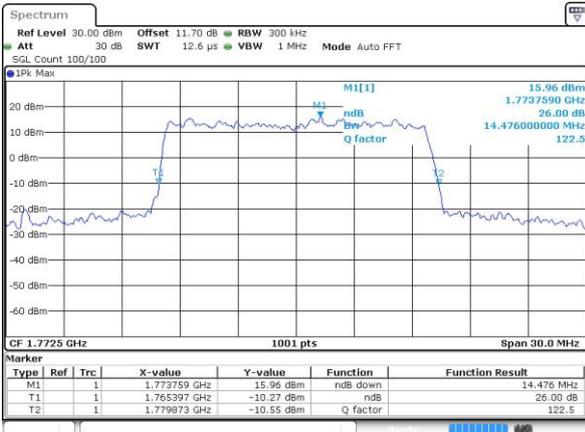
Date: 20 APR 2019 04:00:03

Middle Channel / 15MHz / 16QAM



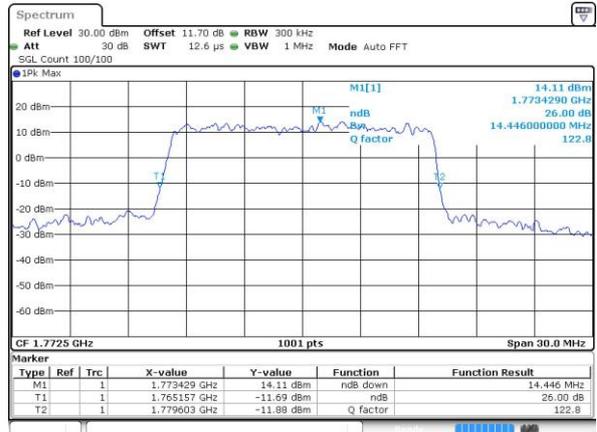
Date: 20 APR 2019 04:00:15

Highest Channel / 15MHz / QPSK



Date: 20 APR 2019 04:02:17

Highest Channel / 15MHz / 16QAM

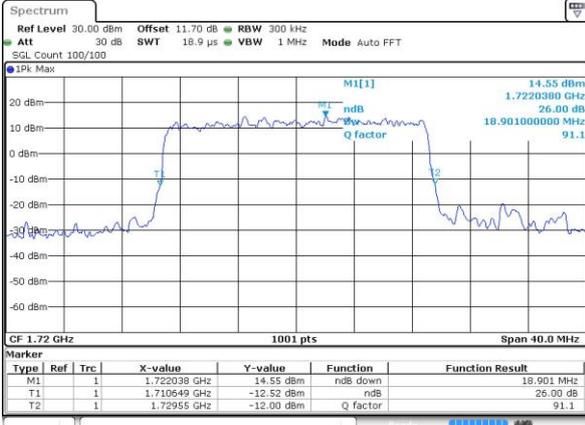


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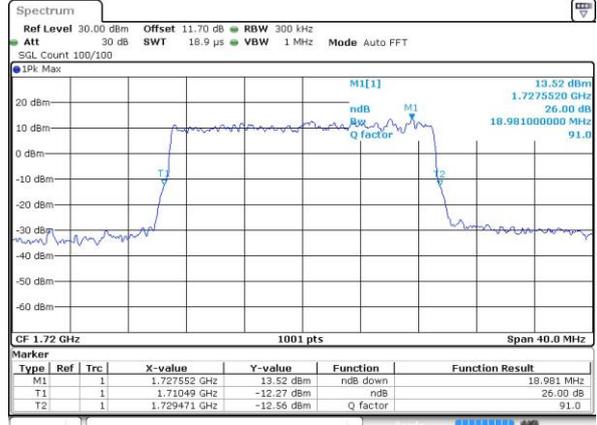
LTE Band 66

Lowest Channel / 20MHz / QPSK



Date: 20 APR 2019 04:08:36

Lowest Channel / 20MHz / 16QAM



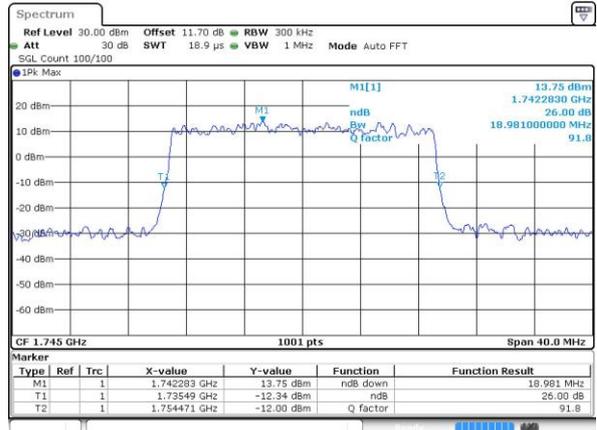
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Middle Channel / 20MHz / QPSK



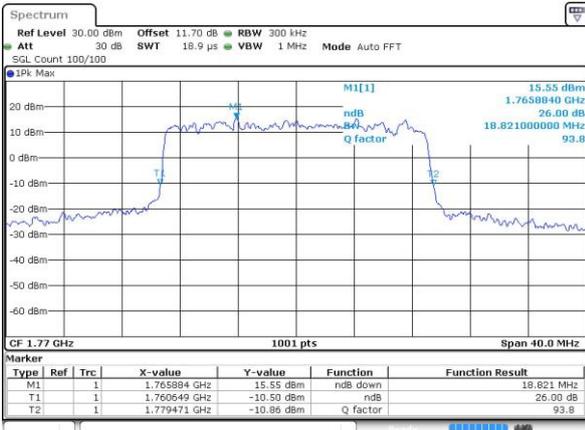
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Middle Channel / 20MHz / 16QAM



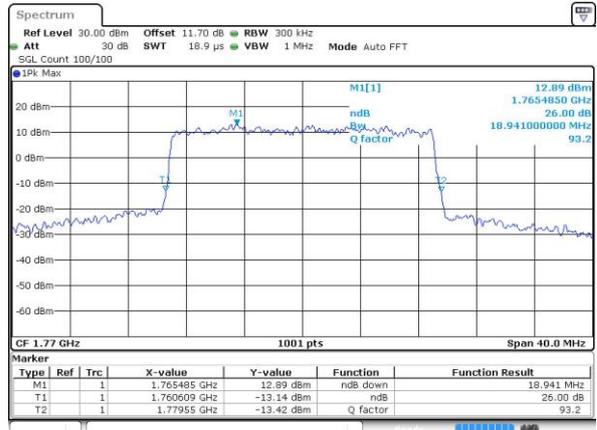
Date: 20 APR 2019 04:15:08

Highest Channel / 20MHz / QPSK



Date: 20 APR 2019 04:17:09

Highest Channel / 20MHz / 16QAM

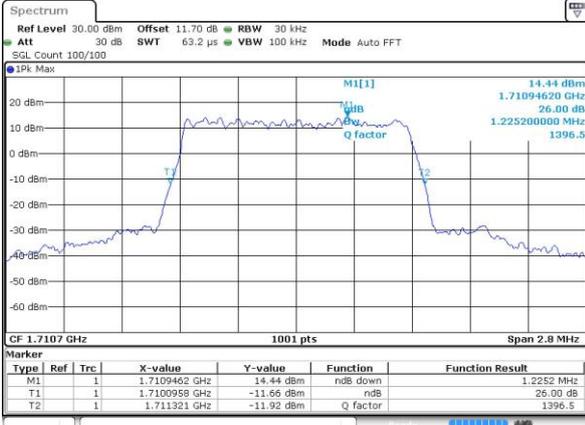


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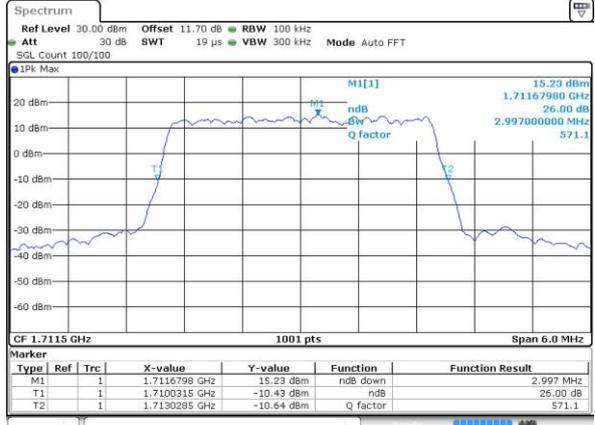
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



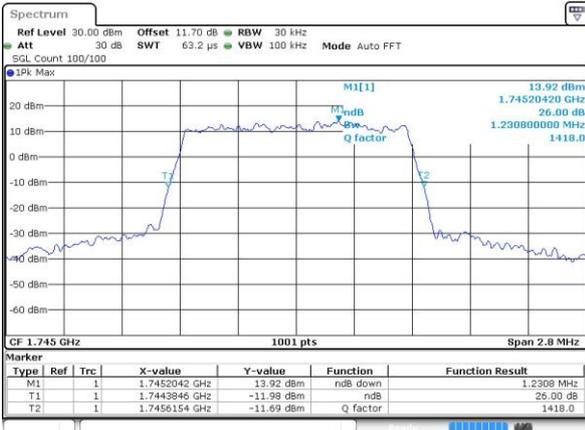
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Lowest Channel / 3MHz / 64QAM



Date: 20 APR 2019 02:54:09

Middle Channel / 20MHz / 64QAM



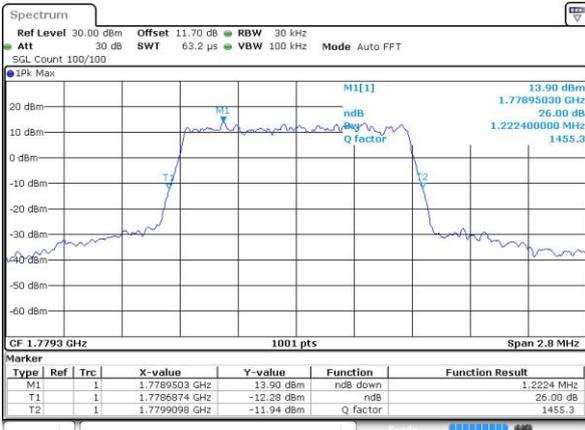
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Middle Channel / 3MHz / 64QAM



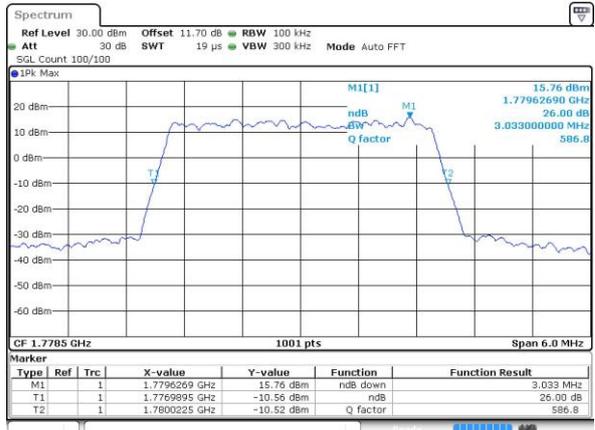
Date: 20 APR 2019 02:57:18

Highest Channel / 20MHz / 64QAM



Date: 20 APR 2019 02:36:03

Highest Channel / 3MHz / 64QAM

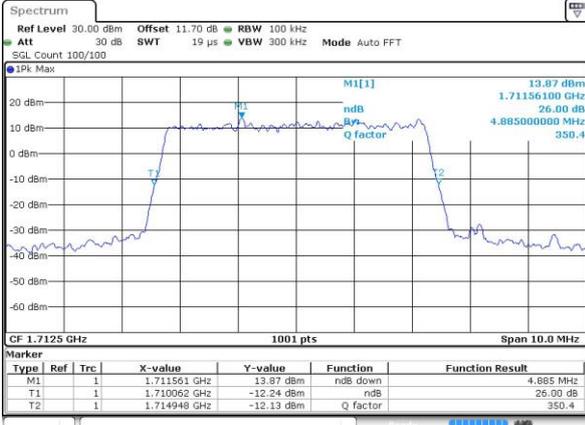


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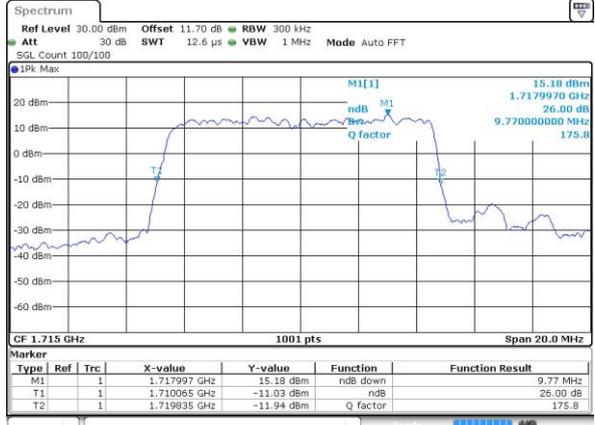
LTE Band 66

Lowest Channel / 5MHz / 64QAM



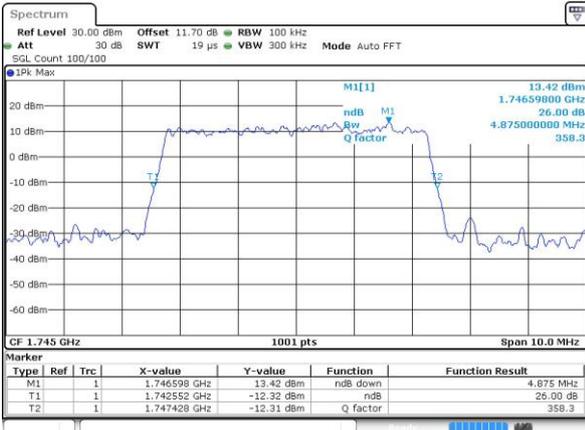
Date: 20 APR 2019 03:01:34

Lowest Channel / 10MHz / 64QAM



Date: 20 APR 2019 03:38:41

Middle Channel / 5MHz / 64QAM



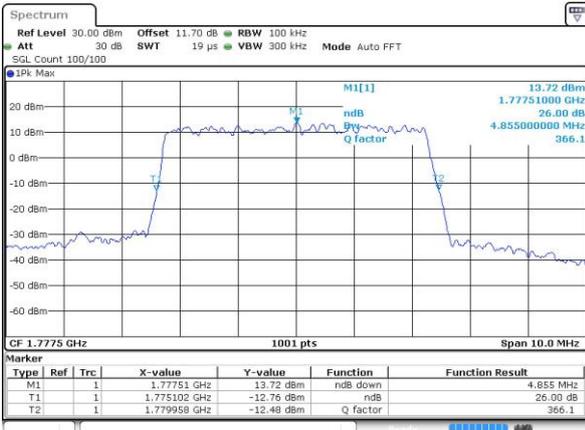
Date: 20 APR 2019 03:04:43

Middle Channel / 10MHz / 64QAM



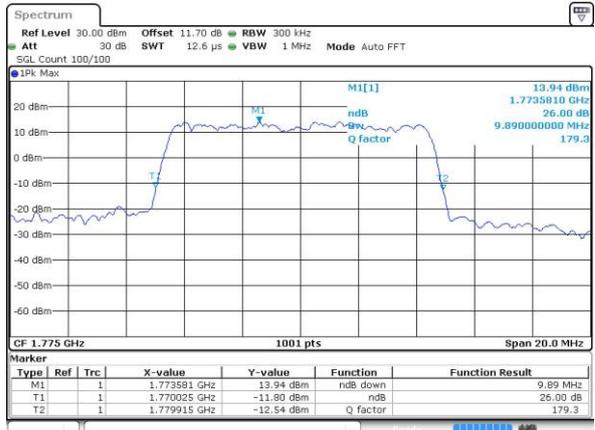
Date: 20 APR 2019 03:41:51

Highest Channel / 5MHz / 64QAM



Date: 20 APR 2019 03:05:50

Highest Channel / 10MHz / 64QAM

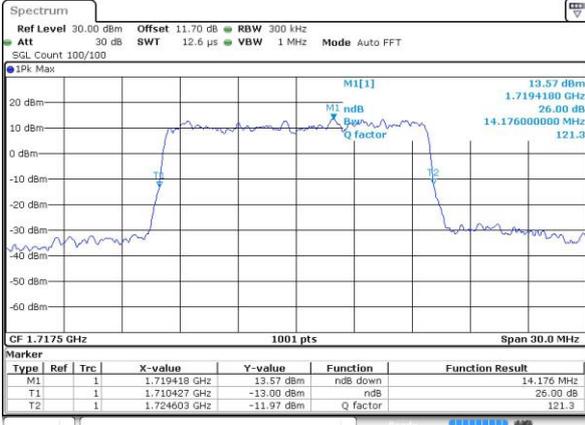


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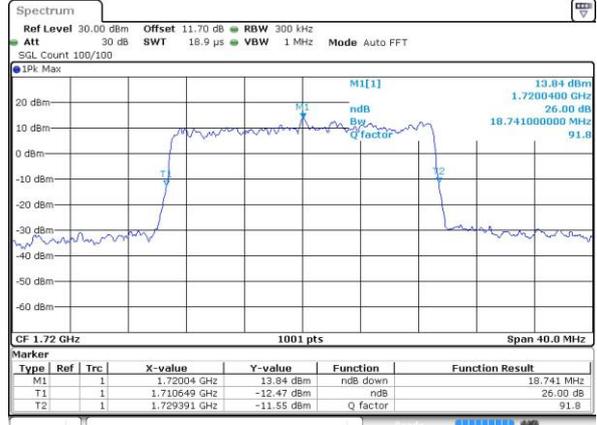
LTE Band 66

Lowest Channel / 15MHz / 64QAM



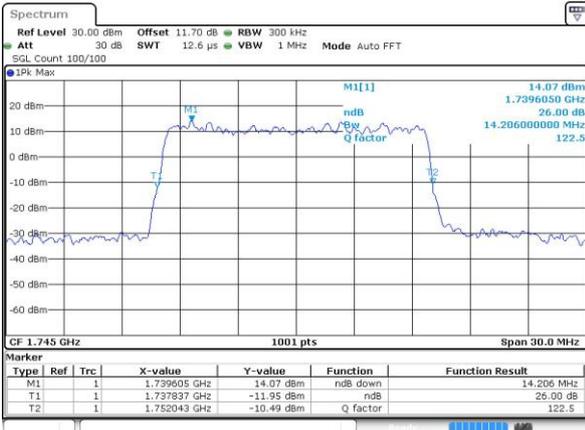
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Lowest Channel / 20MHz / 64QAM



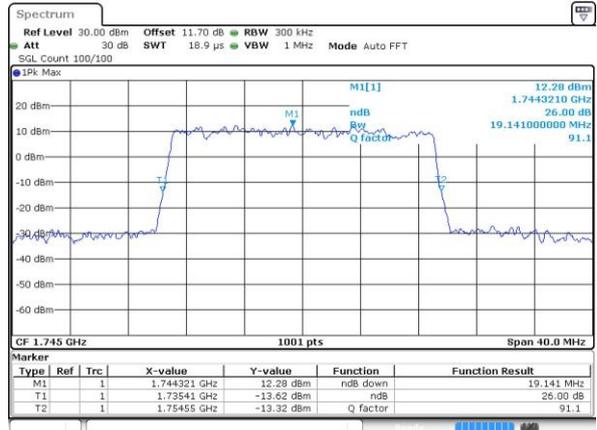
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Middle Channel / 15MHz / 64QAM



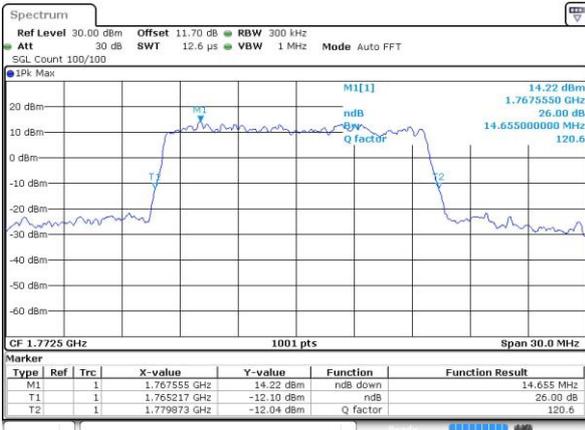
Date: 20 APR 2019 03:49:15

Middle Channel / 20MHz / 64QAM



Date: 20 APR 2019 04:26:25

Highest Channel / 15MHz / 64QAM



Date: 20 APR 2019 03:50:22

Highest Channel / 20MHz / 64QAM



Date: 20 APR 2019 04:30:17



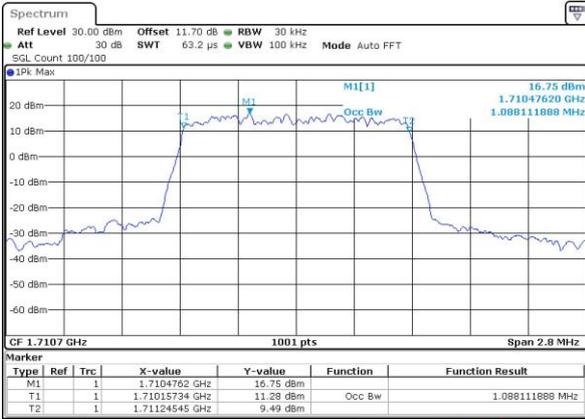
Occupied Bandwidth

Mode	LTE Band 66 : 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	1.09	2.71	2.73	4.50	4.51	9.03	9.05	13.46	13.40	17.90	17.86
Middle CH	1.09	1.09	2.72	2.70	4.48	4.50	8.99	9.01	13.37	13.43	17.82	17.90
Highest CH	1.09	1.09	2.73	2.71	4.49	4.49	9.03	9.01	13.49	13.49	17.94	17.86
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.47	-	9.07	-	13.46	-	17.90	-
Middle CH	1.09	-	2.73	-	4.50	-	9.05	-	13.46	-	17.98	-
Highest CH	1.09	-	2.72	-	4.51	-	9.03	-	13.40	-	17.86	-



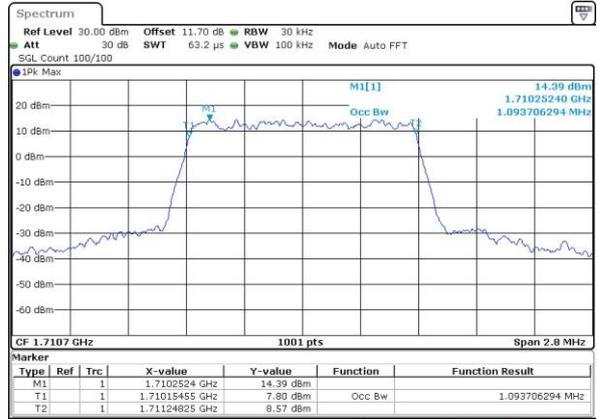
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



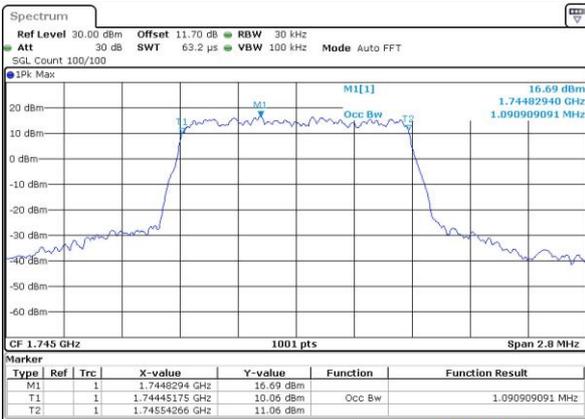
Date: 20 APR 2019 02:16:10

Lowest Channel / 1.4MHz / 16QAM



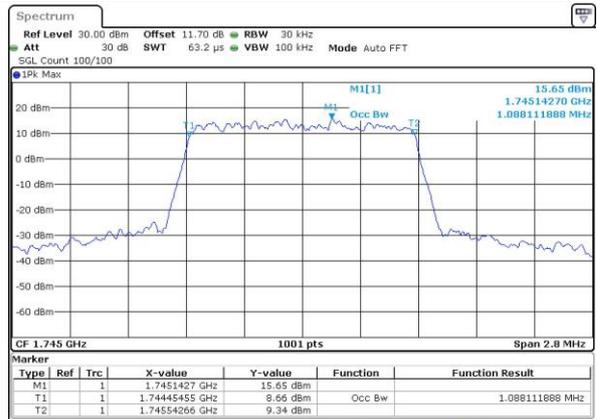
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Middle Channel / 1.4MHz / QPSK



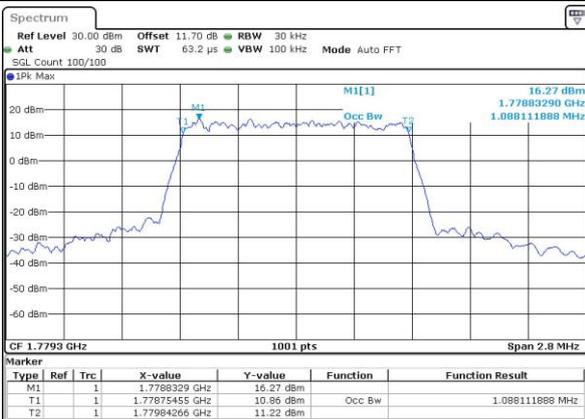
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Middle Channel / 1.4MHz / 16QAM



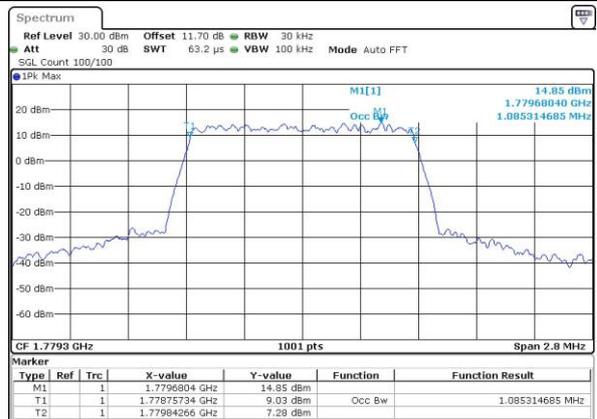
Date: 20 APR 2019 02:22:56

Highest Channel / 1.4MHz / QPSK



Date: 20 APR 2019 02:24:58

Highest Channel / 1.4MHz / 16QAM

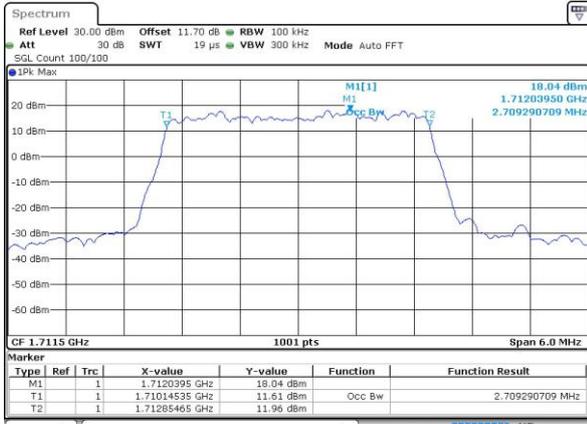


Date: 20 APR 2019 02:25:10



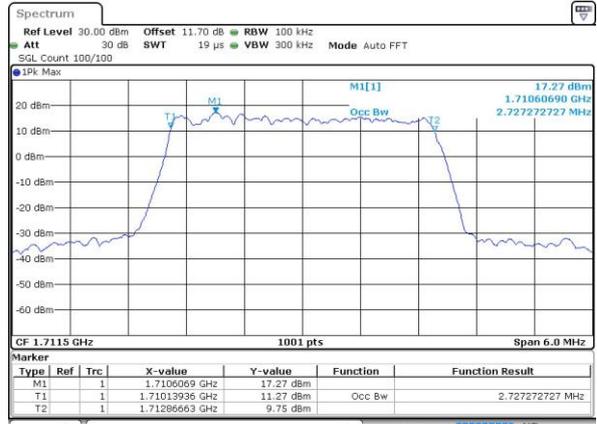
LTE Band 66

Lowest Channel / 3MHz / QPSK



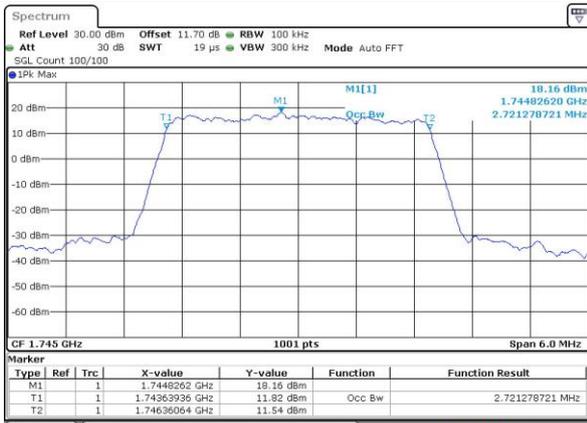
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Lowest Channel / 3MHz / 16QAM



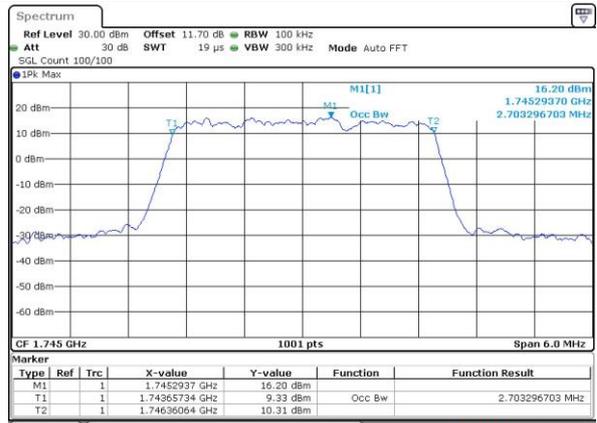
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Middle Channel / 3MHz / QPSK



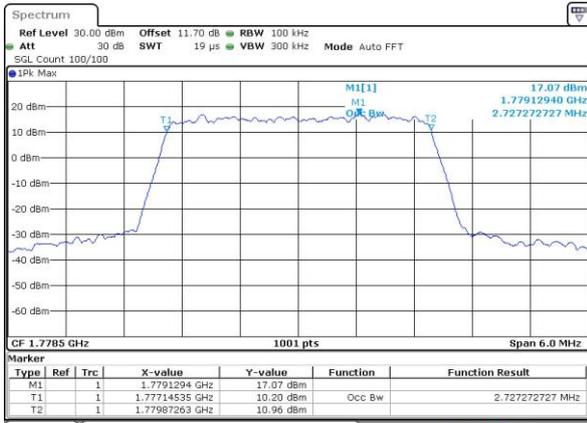
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Middle Channel / 3MHz / 16QAM



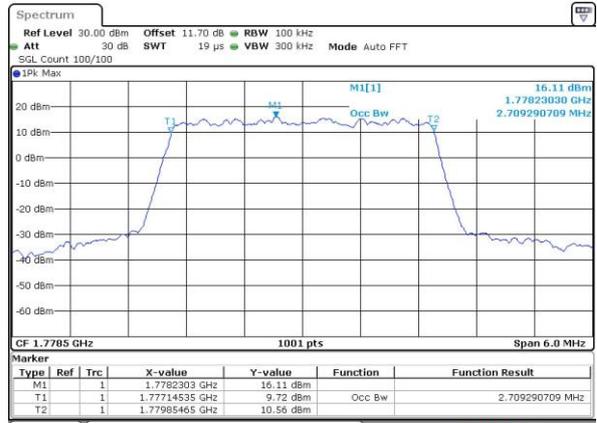
Date: 20 APR 2019 02:45:37

Highest Channel / 3MHz / QPSK



Date: 20 APR 2019 02:47:39

Highest Channel / 3MHz / 16QAM

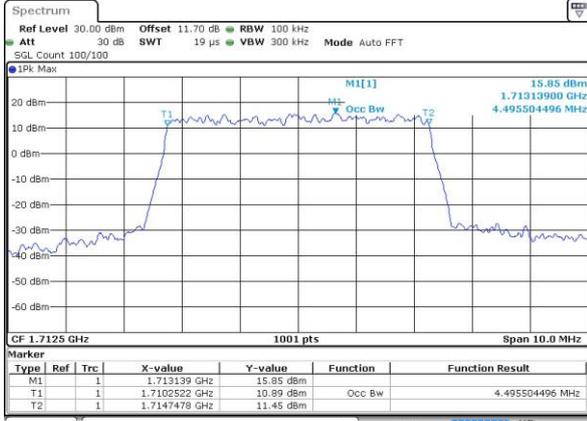


Date: 20 APR 2019 02:47:51



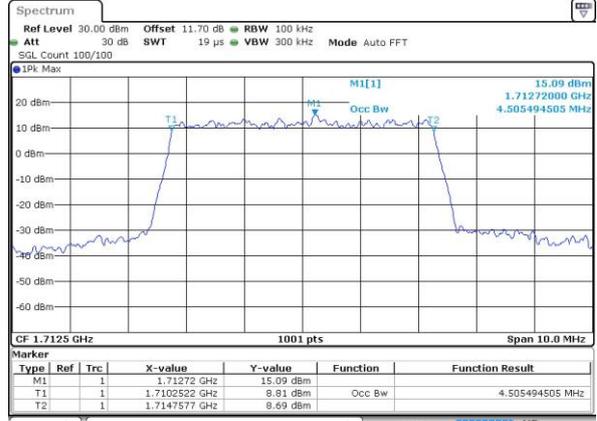
LTE Band 66

Lowest Channel / 5MHz / QPSK



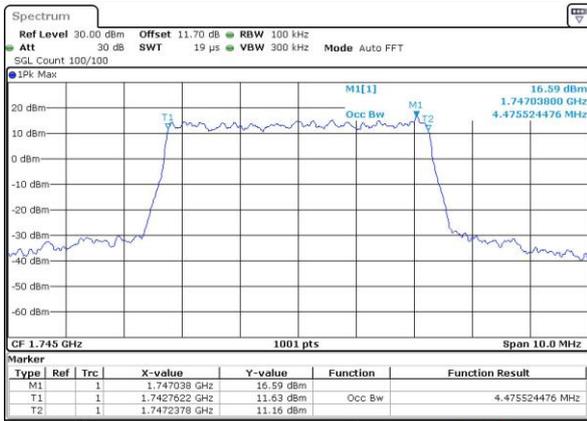
Date: 20 APR 2019 03:08:47

Lowest Channel / 5MHz / 16QAM



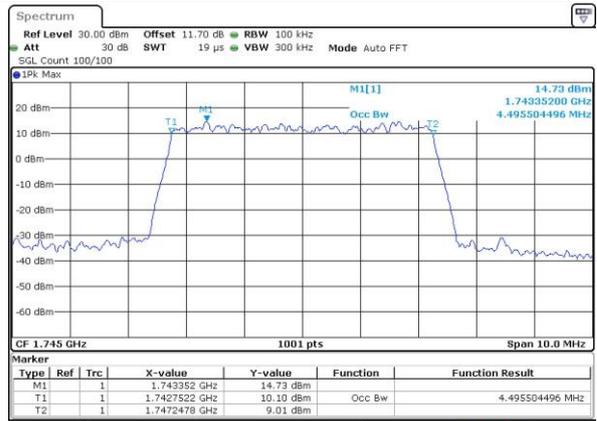
Date: 20 APR 2019 03:08:59

Middle Channel / 5MHz / QPSK



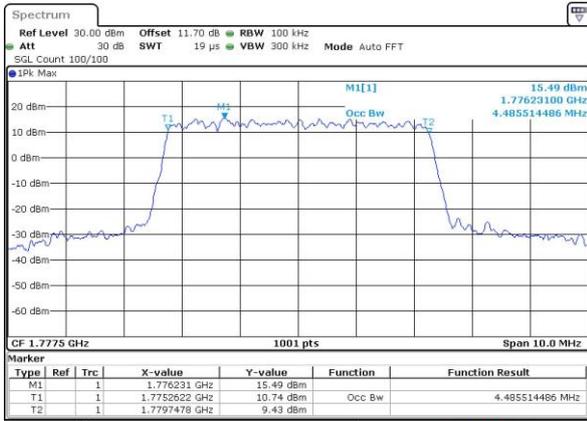
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Middle Channel / 5MHz / 16QAM



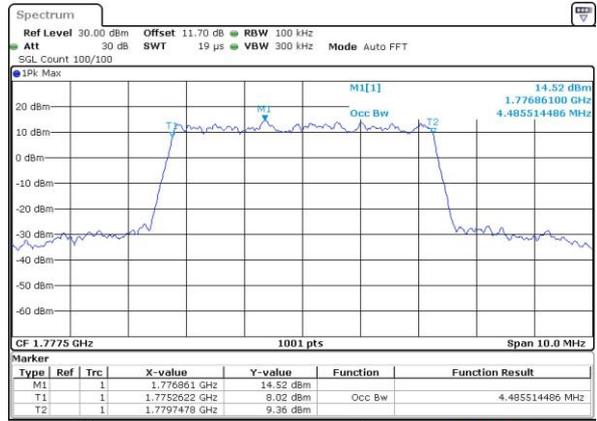
Date: 20 APR 2019 03:15:18

Highest Channel / 5MHz / QPSK



Date: 20 APR 2019 03:17:19

Highest Channel / 5MHz / 16QAM



Date: 20 APR 2019 03:17:32