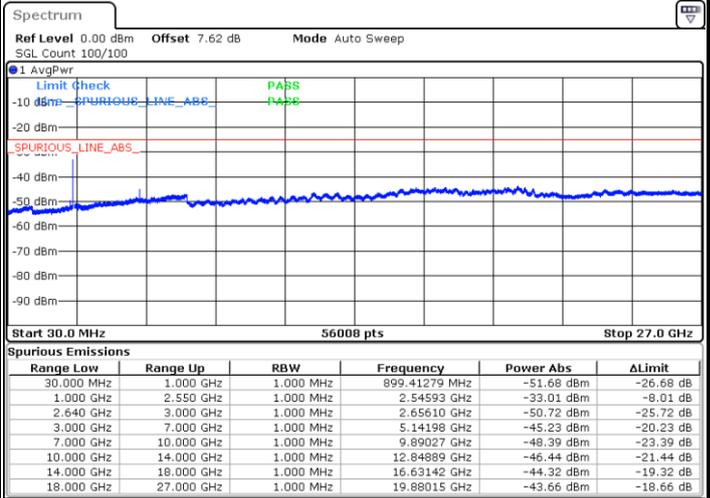
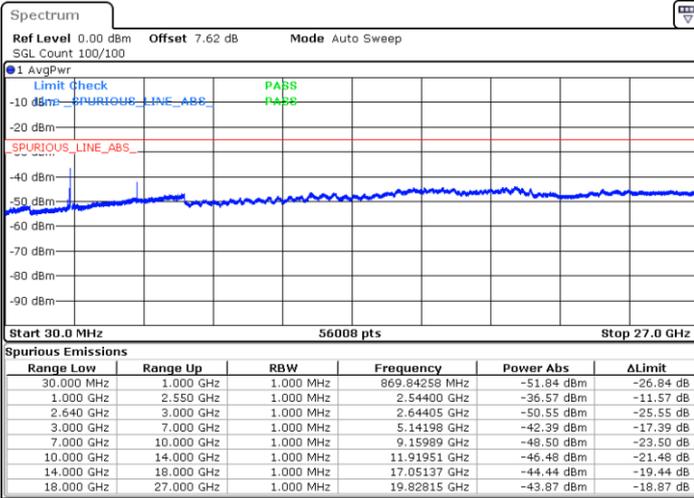




LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

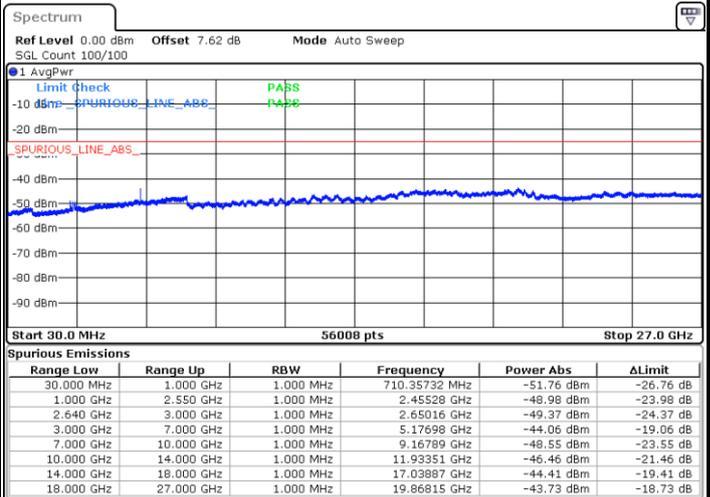
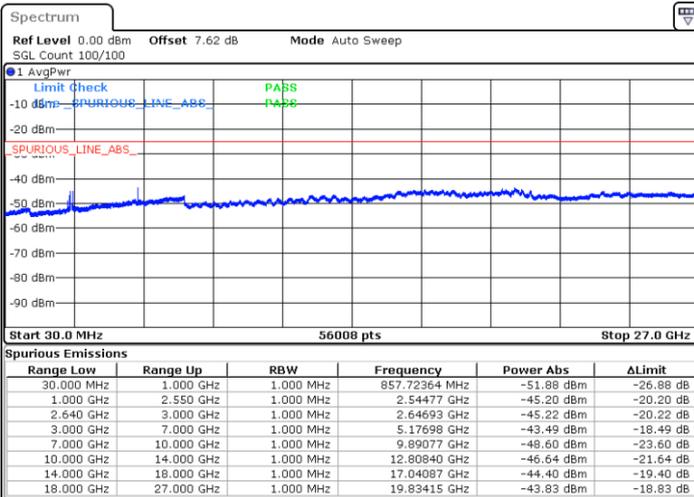


Date: 13.MAY.2020 04:14:50

Date: 13.MAY.2020 04:15:44

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 13.MAY.2020 04:16:39

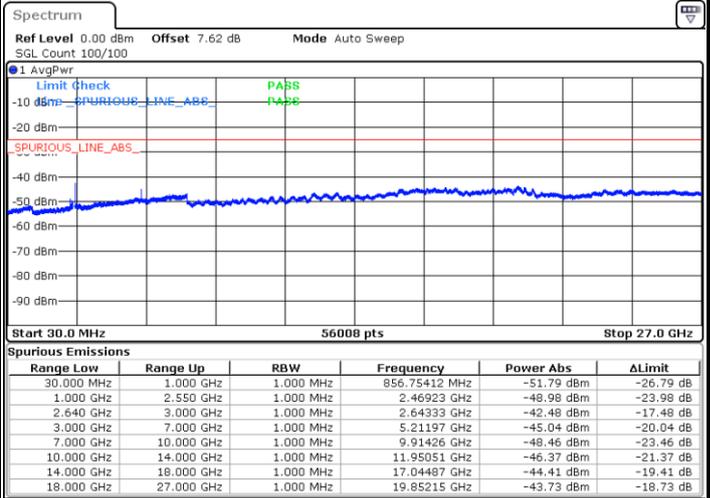
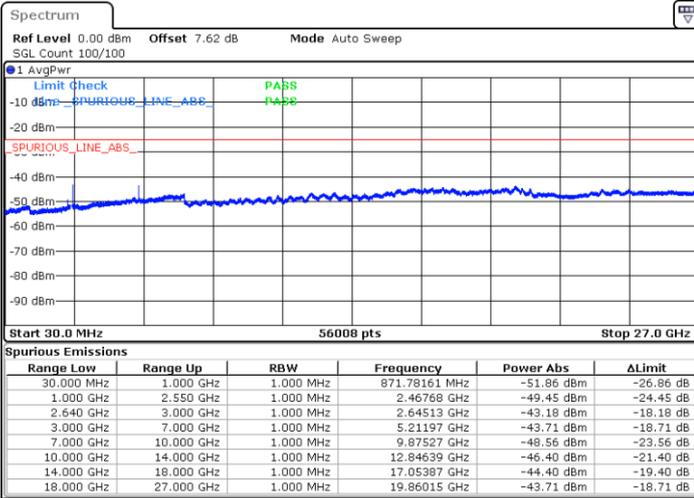
Date: 13.MAY.2020 04:17:34



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



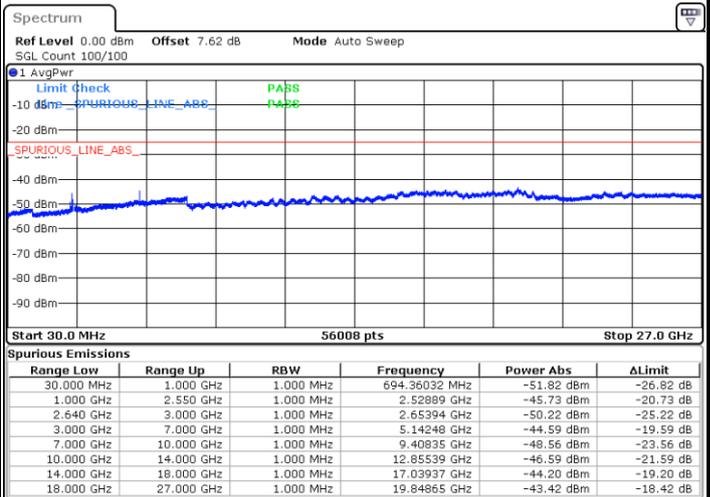
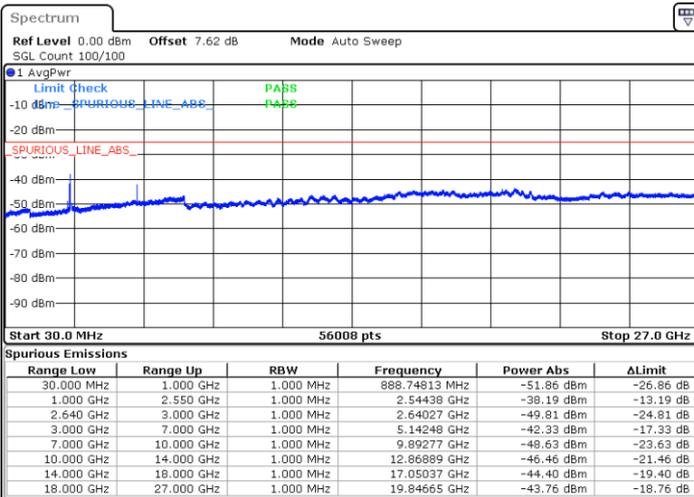
Date: 13.MAY.2020 04:18:28

Date: 13.MAY.2020 04:19:23

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 13.MAY.2020 04:20:17

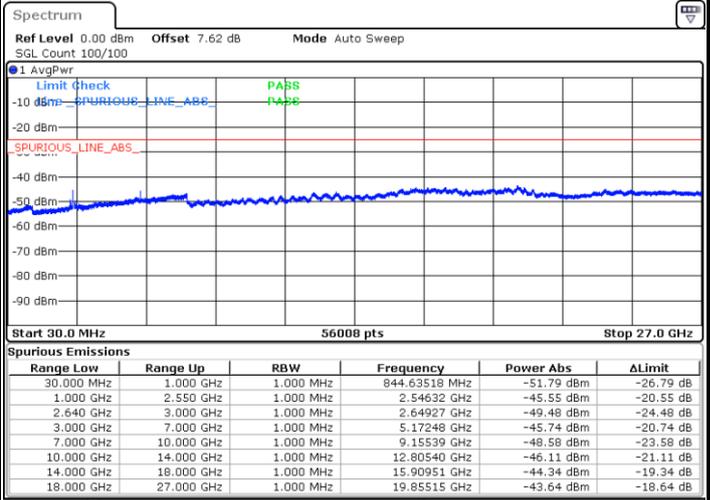
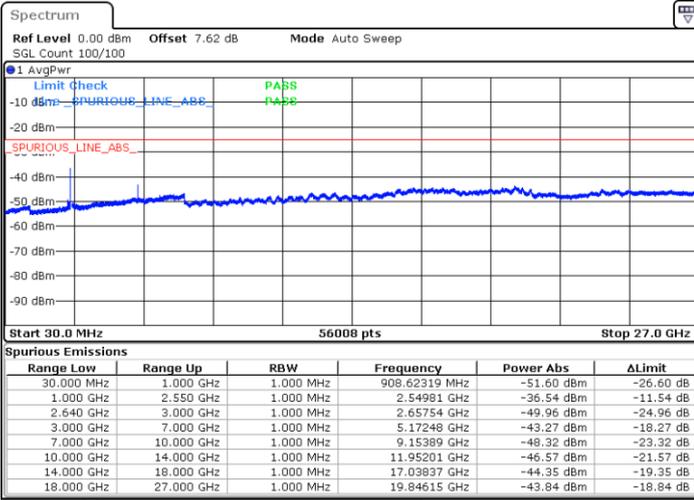
Date: 13.MAY.2020 04:21:12



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

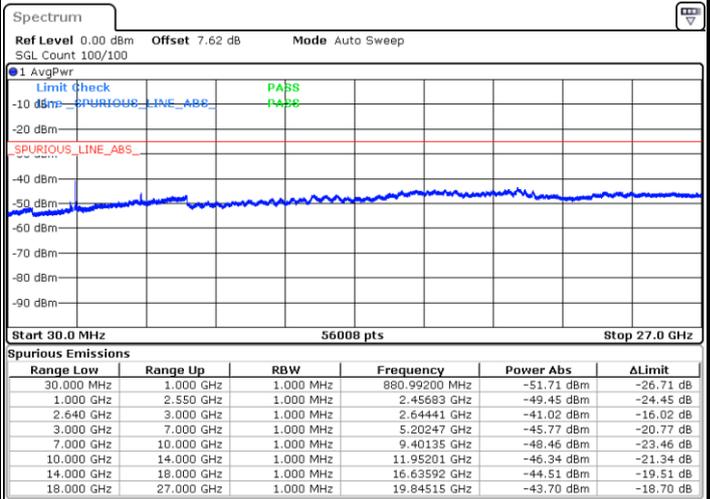
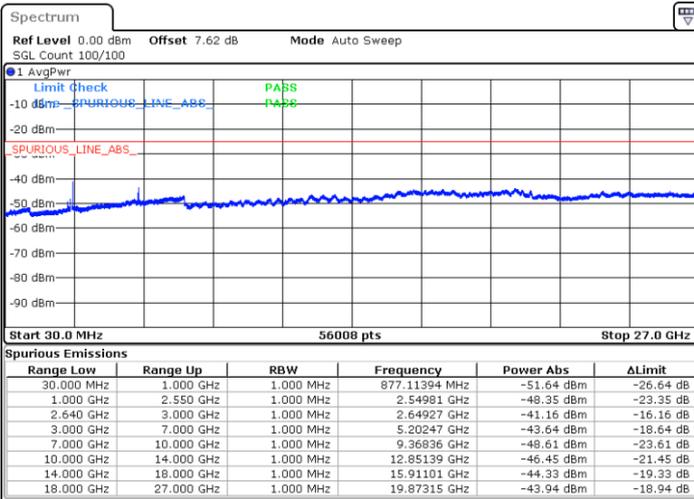


Date: 13.MAY.2020 04:22:07

Date: 13.MAY.2020 04:23:01

Highest Channel / QPSK

Highest Channel / 16QAM



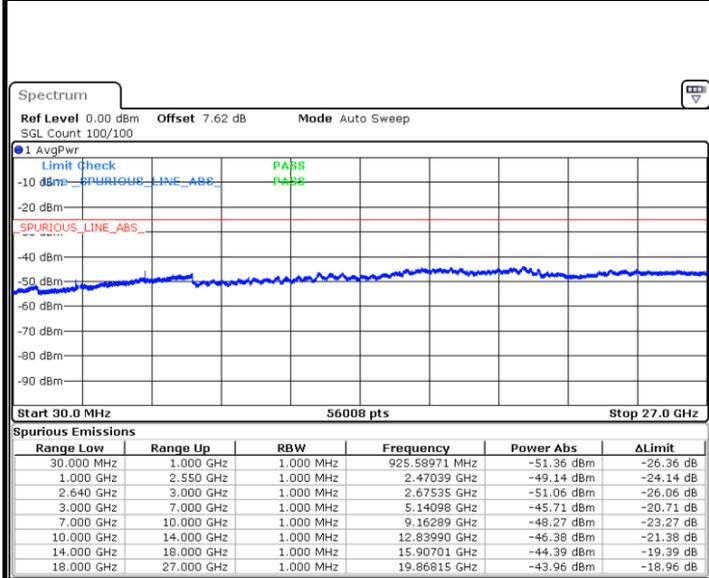
Date: 13.MAY.2020 04:23:56

Date: 13.MAY.2020 04:24:50



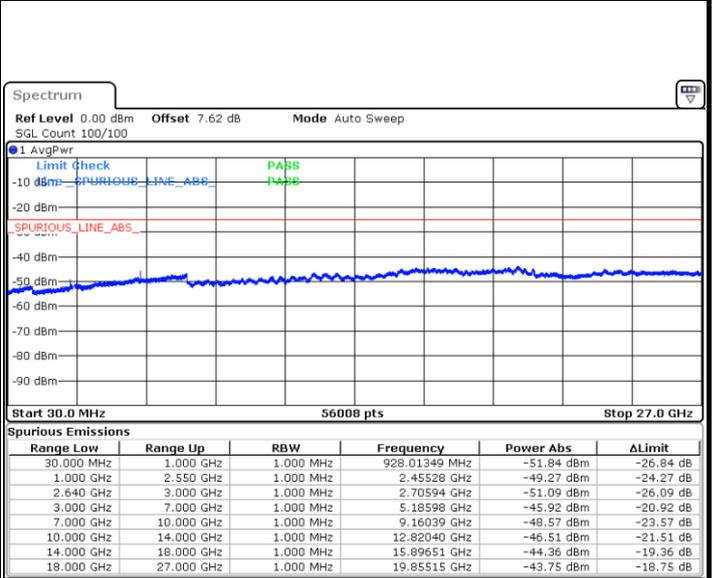
LTE Band 38 / 5MHz

Lowest Channel / 64QAM



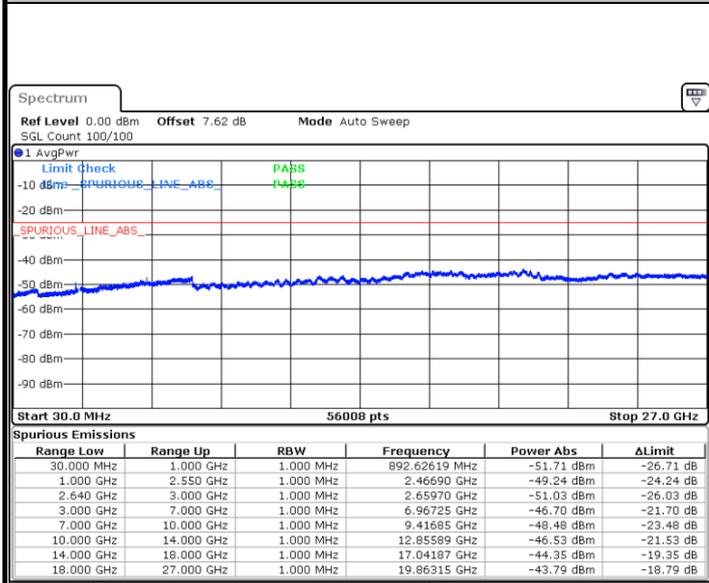
Date: 13.MAY.2020 04:25:45

Middle Channel / 64QAM



Date: 13.MAY.2020 04:26:40

Highest Channel / 64QAM



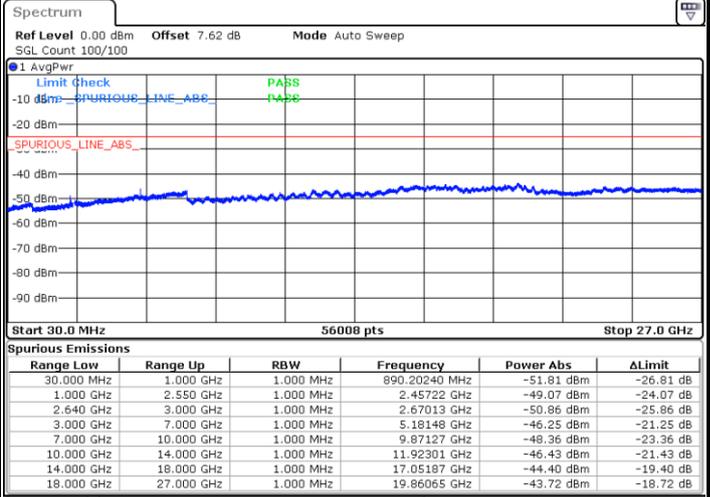
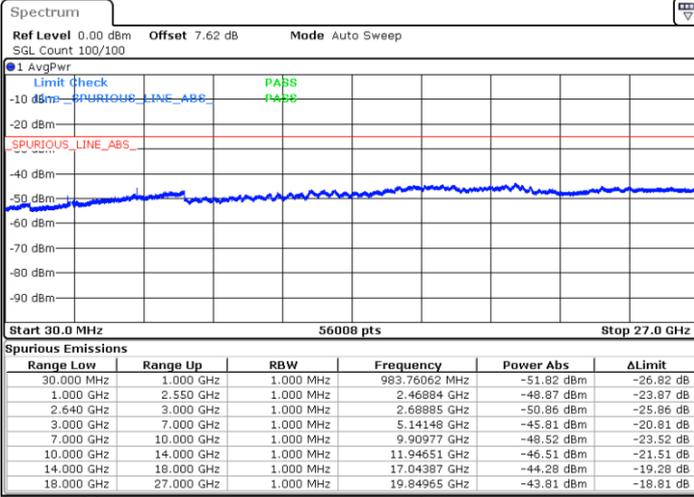
Date: 13.MAY.2020 04:27:34



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

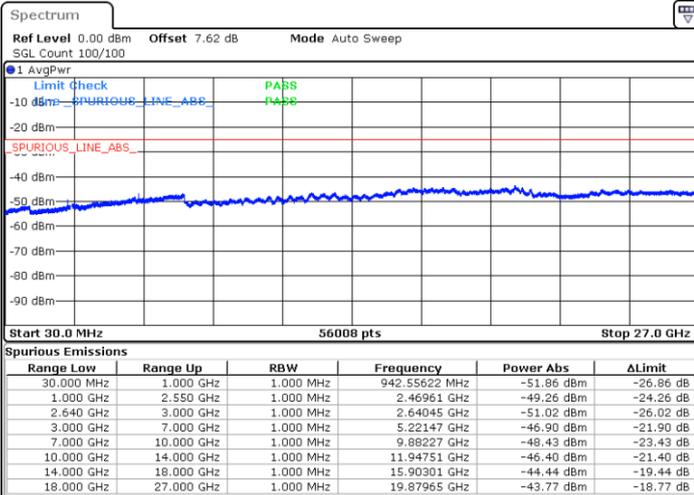
Middle Channel / 64QAM



Date: 13.MAY.2020 04:28:29

Date: 13.MAY.2020 04:29:24

Highest Channel / 64QAM



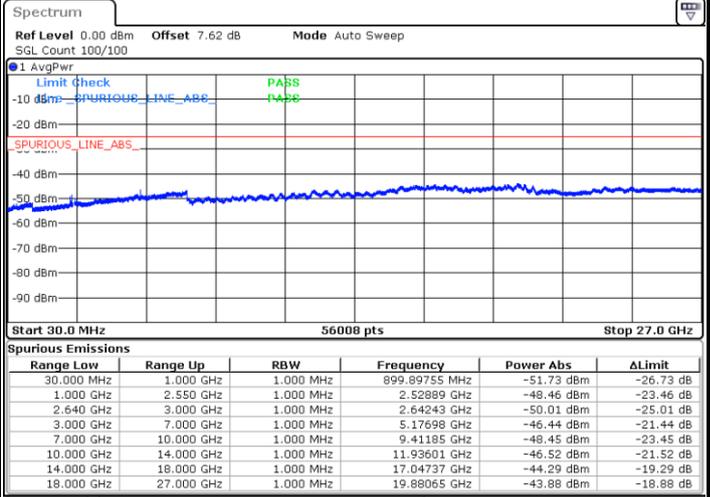
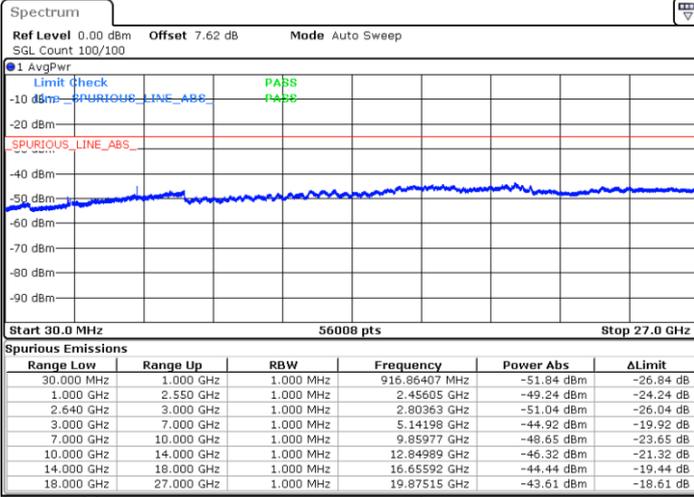
Date: 13.MAY.2020 04:30:19



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

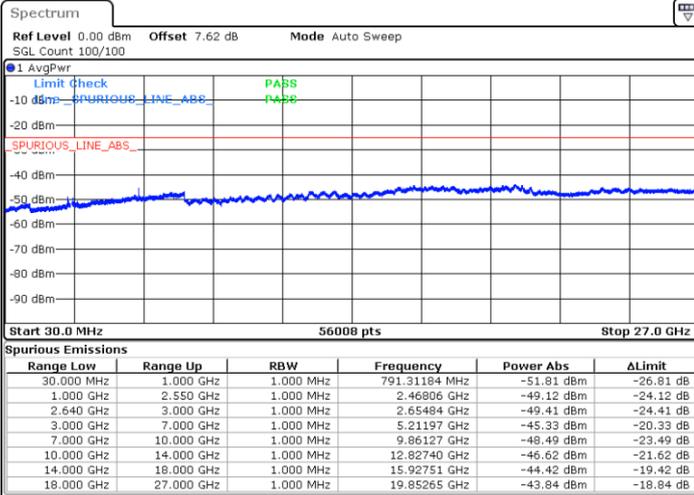
Middle Channel / 64QAM



Date: 13.MAY.2020 04:31:13

Date: 13.MAY.2020 04:32:08

Highest Channel / 64QAM



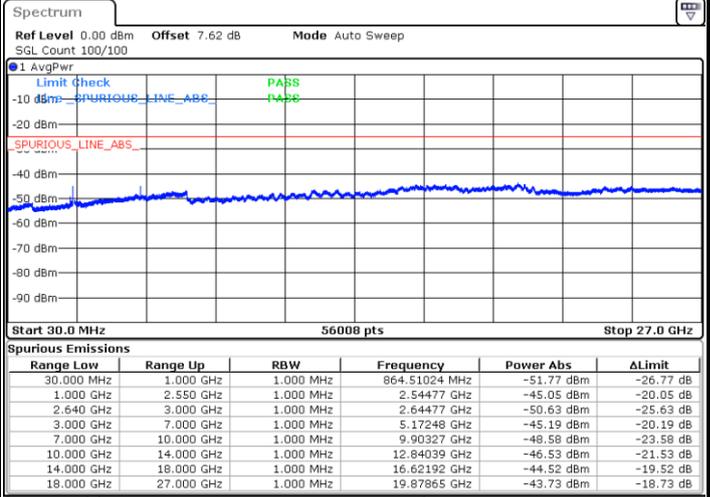
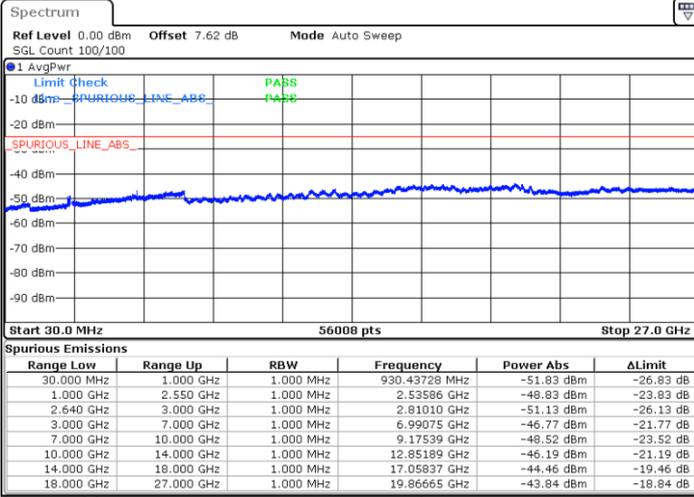
Date: 13.MAY.2020 04:33:02



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

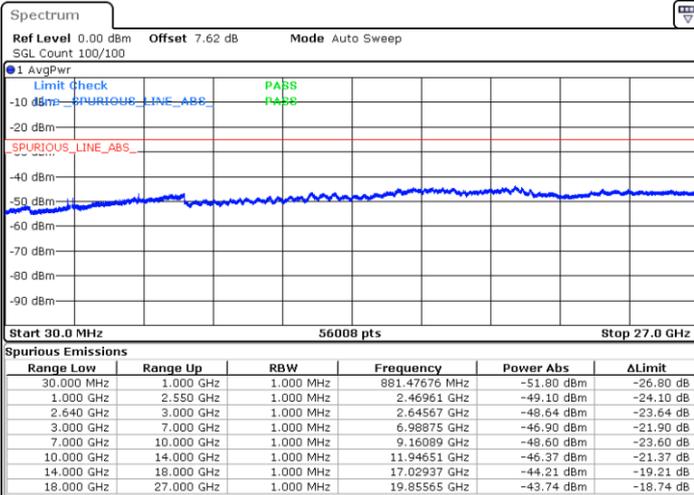
Middle Channel / 64QAM



Date: 13.MAY.2020 04:33:57

Date: 13.MAY.2020 04:34:51

Highest Channel / 64QAM



Date: 13.MAY.2020 04:35:46



### Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0024	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 66

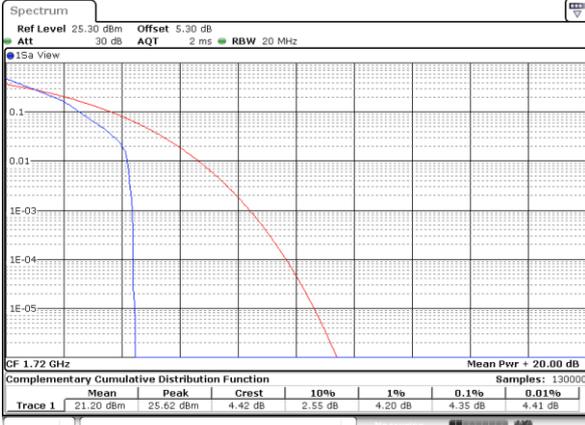
## Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	4.87	5.45	5.91	PASS
Middle CH	4.58	4.93	7.48	6.03	
Highest CH	4.58	4.72	5.19	5.83	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.81	6.49	-	-	PASS
Middle CH	6.90	6.49	-	-	
Highest CH	7.10	6.32	-	-	



LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



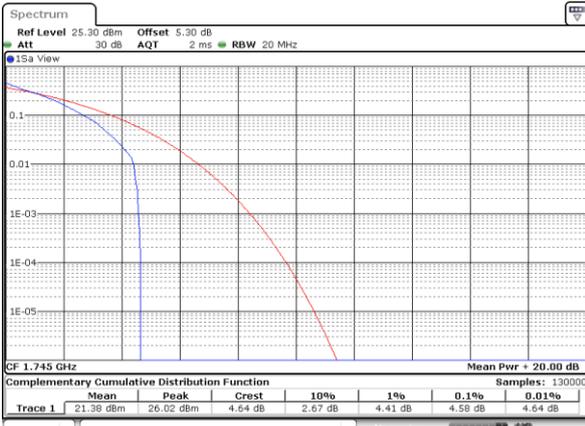
Date: 16 MAY 2020 00:18:19

Lowest Channel / Full RB



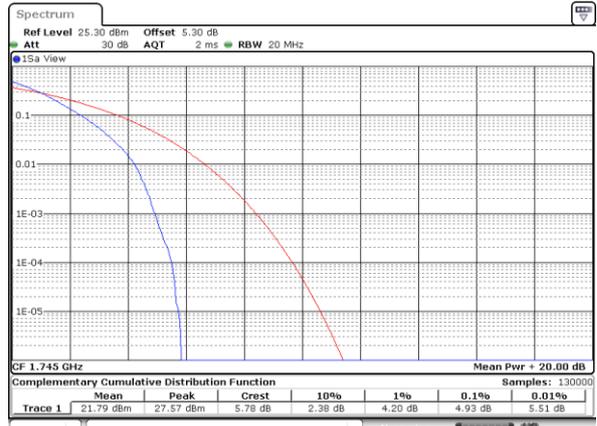
Date: 16 MAY 2020 00:17:06

Middle Channel / 1RB



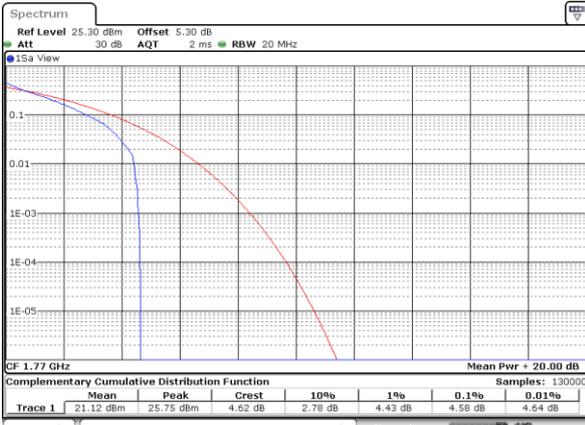
Date: 16 MAY 2020 00:18:38

Middle Channel / Full RB



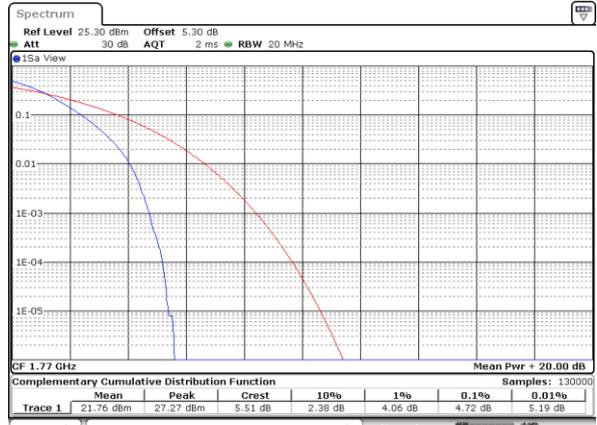
Date: 16 MAY 2020 00:19:40

Highest Channel / 1RB



Date: 16 MAY 2020 00:21:06

Highest Channel / Full RB

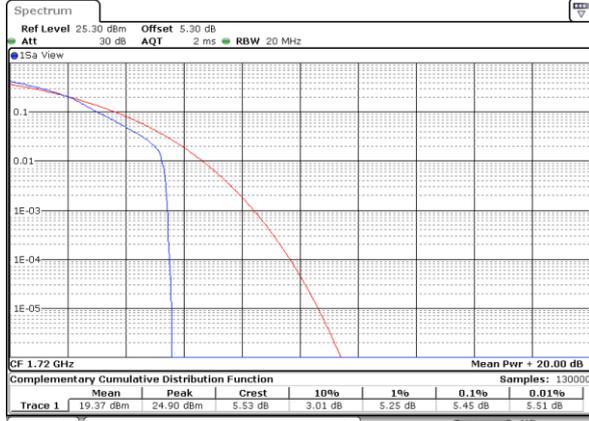


Date: 16 MAY 2020 00:20:08



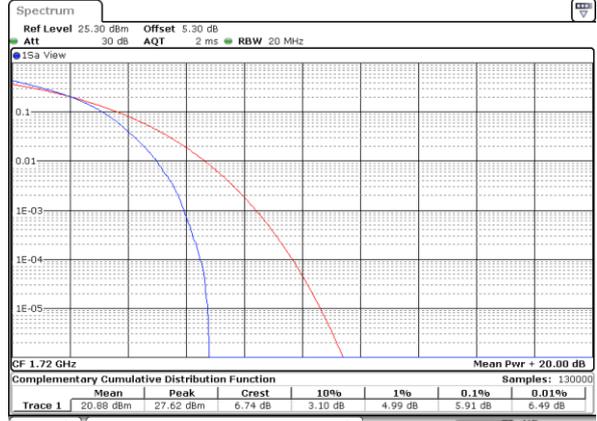
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



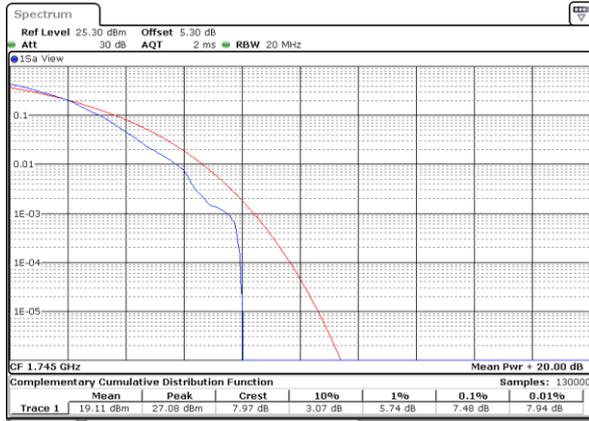
Date: 16 MAY 2020 00:18:01

Lowest Channel / Full RB



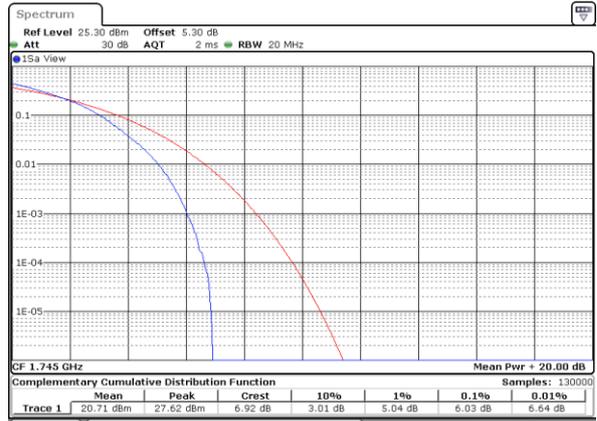
Date: 16 MAY 2020 00:17:24

Middle Channel / 1RB



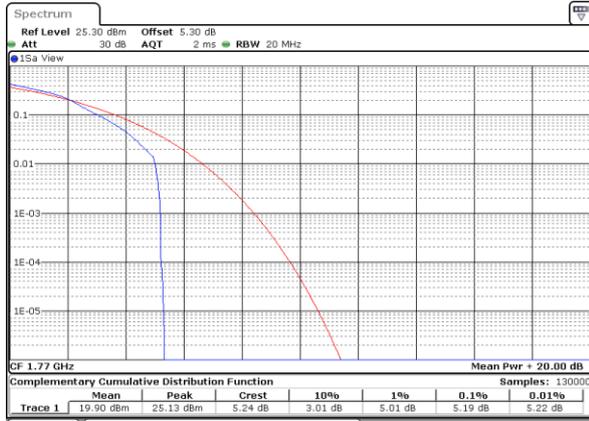
Date: 16 MAY 2020 00:18:57

Middle Channel / Full RB



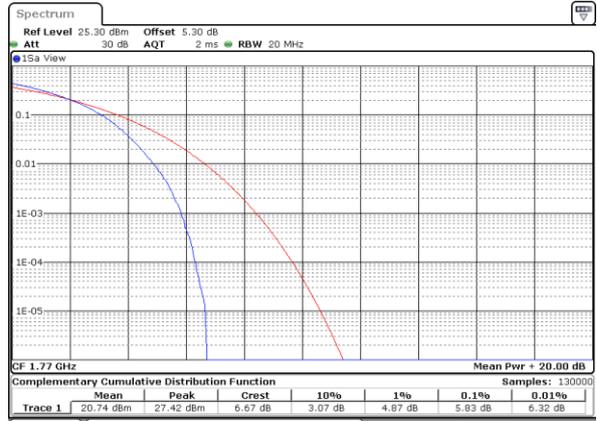
Date: 16 MAY 2020 00:19:29

Highest Channel / 1RB



Date: 16 MAY 2020 00:20:56

Highest Channel / Full RB

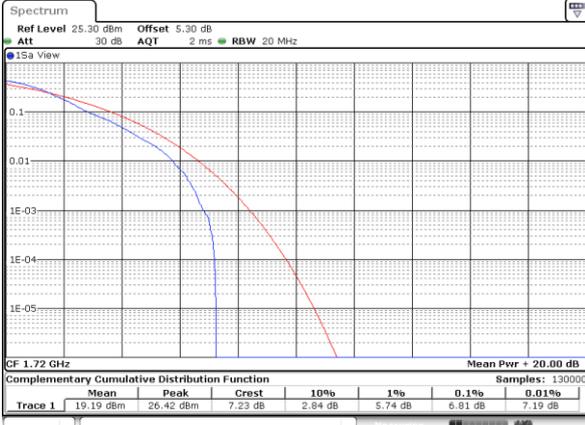


Date: 16 MAY 2020 00:20:20



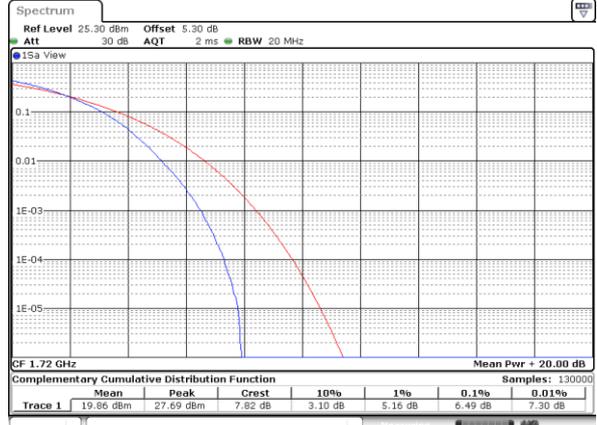
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 16 MAY 2020 00:17:48

Lowest Channel / Full RB



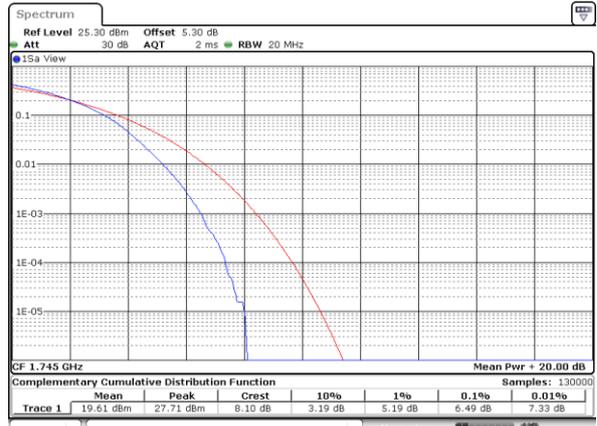
Date: 16 MAY 2020 00:17:34

Middle Channel / 1RB



Date: 16 MAY 2020 00:19:05

Middle Channel / Full RB



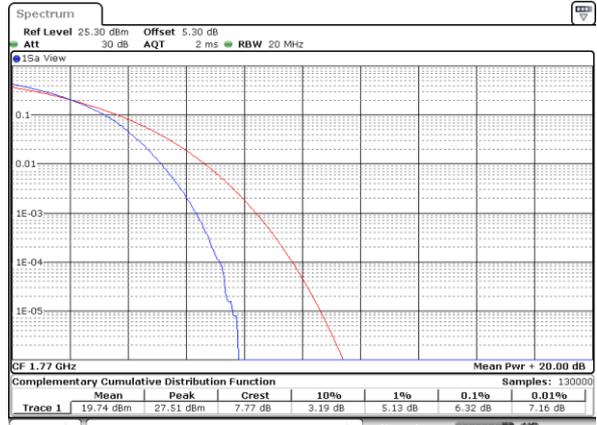
Date: 16 MAY 2020 00:19:18

Highest Channel / 1RB



Date: 16 MAY 2020 00:20:46

Highest Channel / Full RB



Date: 16 MAY 2020 00:20:32



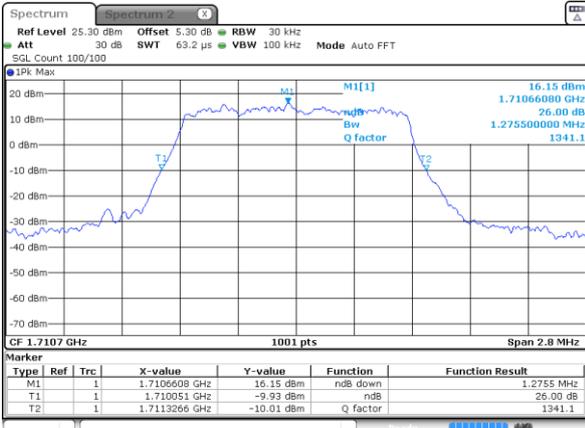
26dB Bandwidth

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	1.28	1.26	3.01	2.97	4.93	4.92	10.05	9.75	14.33	14.33	20.22	20.14
Middle CH	1.30	1.27	2.97	2.99	4.84	4.93	9.63	9.61	14.30	14.42	20.22	20.18
Highest CH	1.28	1.25	2.99	2.99	4.88	4.90	9.69	9.79	14.21	14.30	20.14	20.22
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.29	-	3.01	-	4.86	-	9.91	-	14.45	-	20.10	-
Middle CH	1.30	-	2.98	-	4.94	-	9.85	-	14.27	-	20.14	-
Highest CH	1.26	-	3.02	-	4.86	-	9.87	-	14.24	-	20.14	-



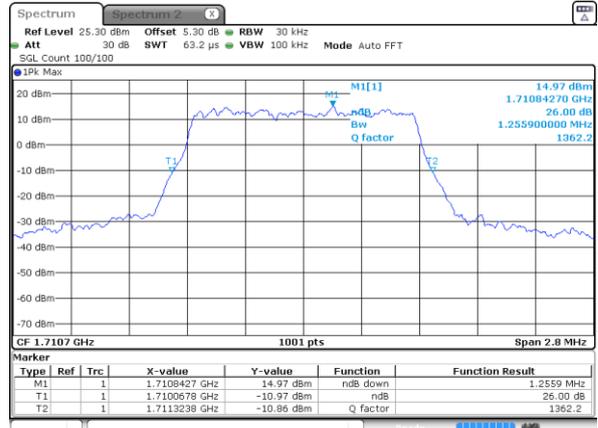
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



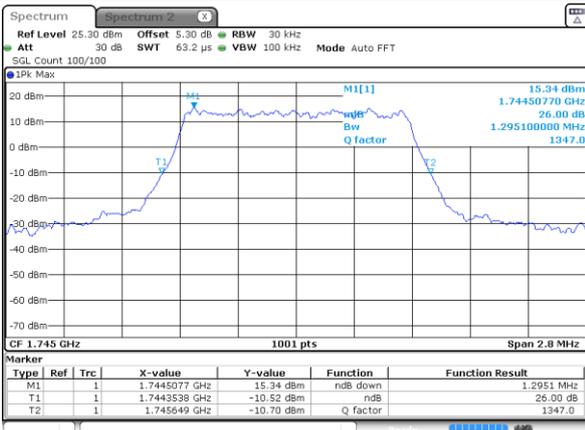
Date: 15 MAY 2020 22:07:01

Lowest Channel / 1.4MHz / 16QAM



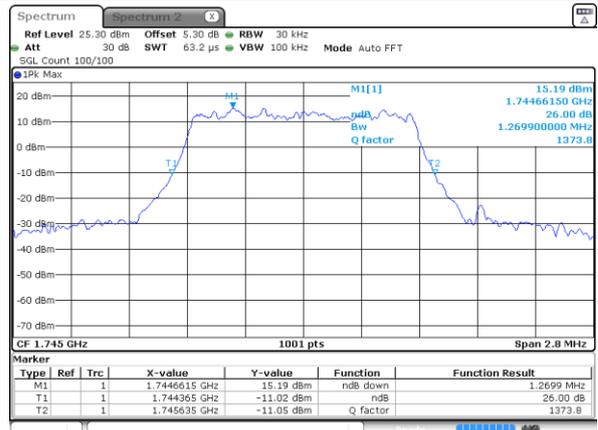
Date: 15 MAY 2020 22:08:52

Middle Channel / 1.4MHz / QPSK



Date: 15 MAY 2020 22:21:17

Middle Channel / 1.4MHz / 16QAM



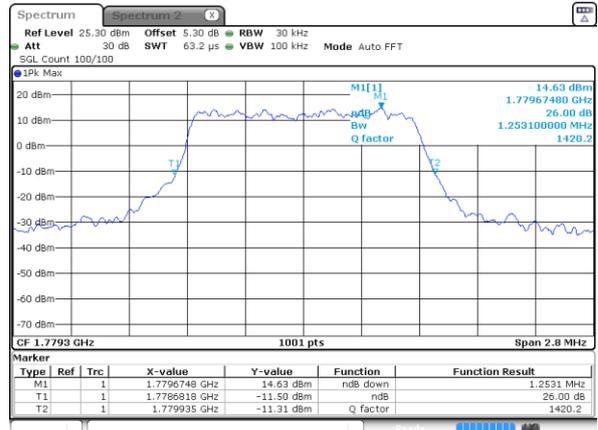
Date: 15 MAY 2020 22:21:01

Highest Channel / 1.4MHz / QPSK



Date: 15 MAY 2020 22:21:43

Highest Channel / 1.4MHz / 16QAM

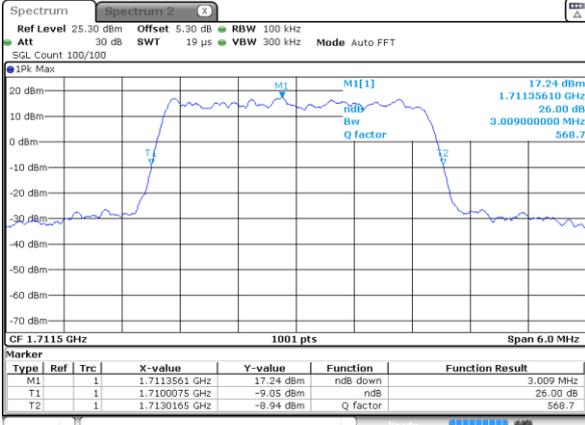


Date: 15 MAY 2020 22:23:18



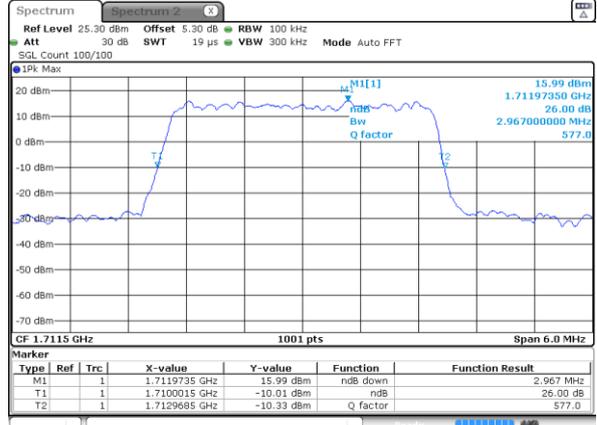
LTE Band 66

Lowest Channel / 3MHz / QPSK



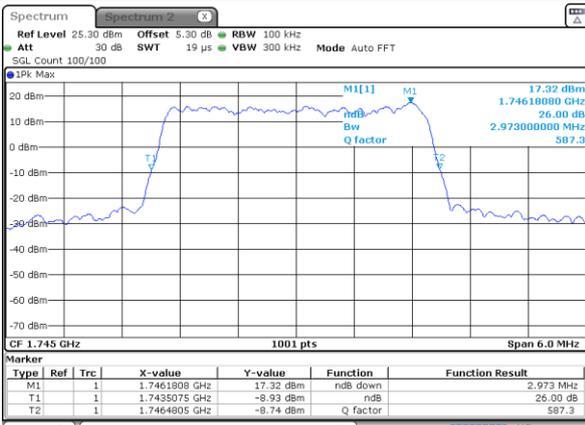
Date: 15 MAY 2020 22:34:07

Lowest Channel / 3MHz / 16QAM



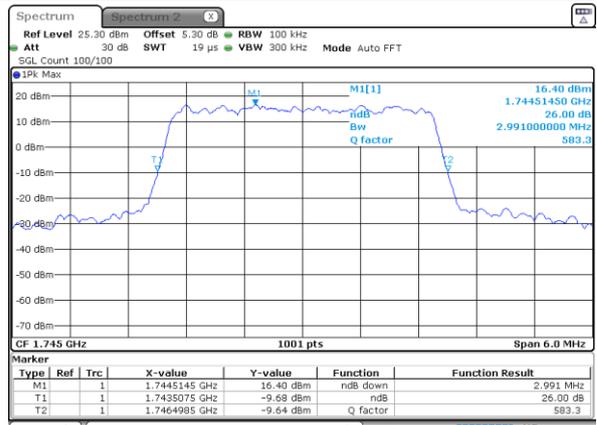
Date: 15 MAY 2020 22:34:59

Middle Channel / 3MHz / QPSK



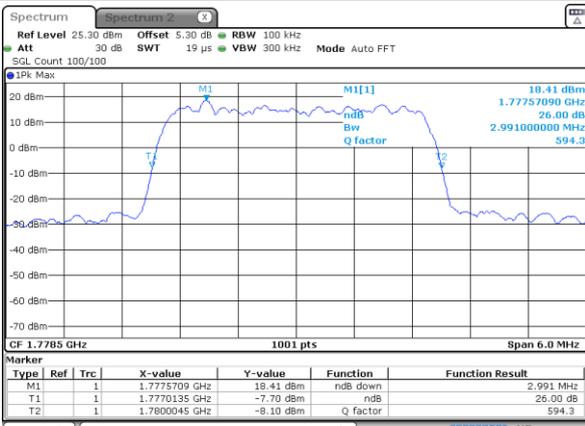
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Middle Channel / 3MHz / 16QAM



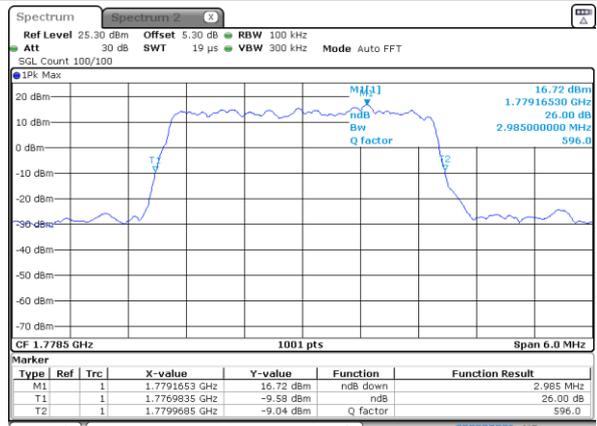
Date: 15 MAY 2020 22:50:05

Highest Channel / 3MHz / QPSK



Date: 15 MAY 2020 22:51:05

Highest Channel / 3MHz / 16QAM

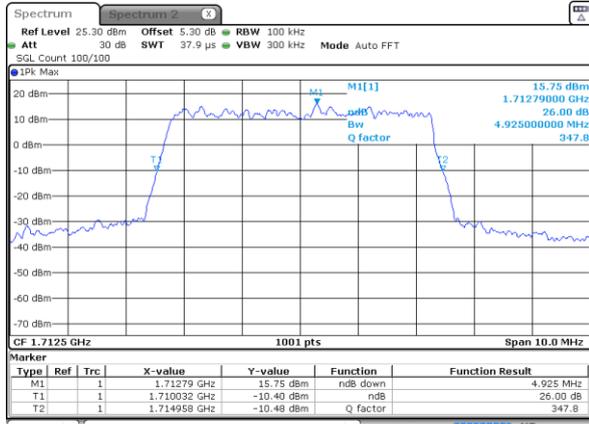


Date: 15 MAY 2020 22:51:55



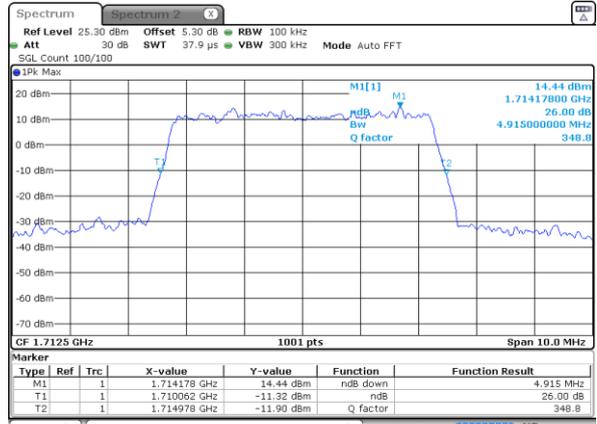
LTE Band 66

Lowest Channel / 5MHz / QPSK



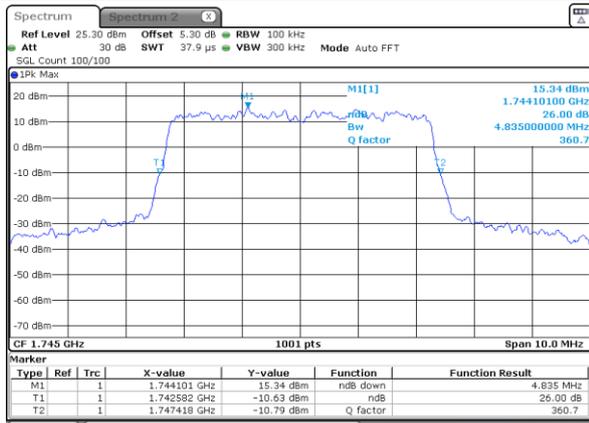
Date: 15 MAY 2020 23:01:15

Lowest Channel / 5MHz / 16QAM



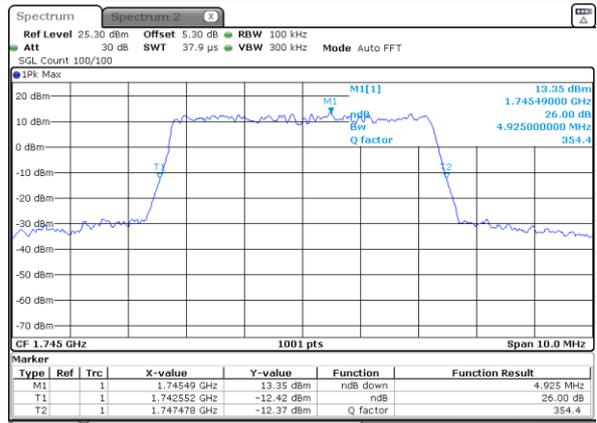
Date: 15 MAY 2020 23:00:42

Middle Channel / 5MHz / QPSK



Date: 15 MAY 2020 23:09:10

Middle Channel / 5MHz / 16QAM



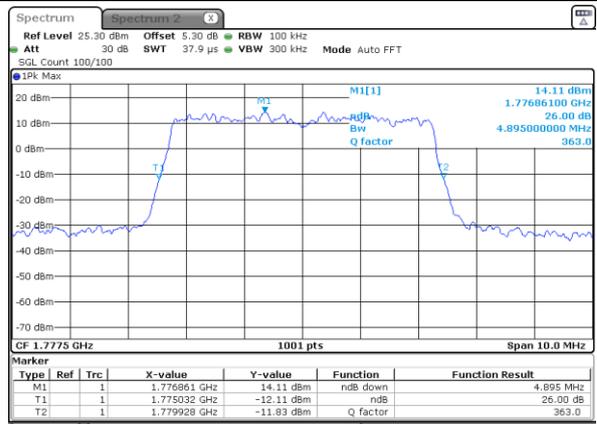
Date: 15 MAY 2020 23:08:54

Highest Channel / 5MHz / QPSK



Date: 15 MAY 2020 23:09:43

Highest Channel / 5MHz / 16QAM

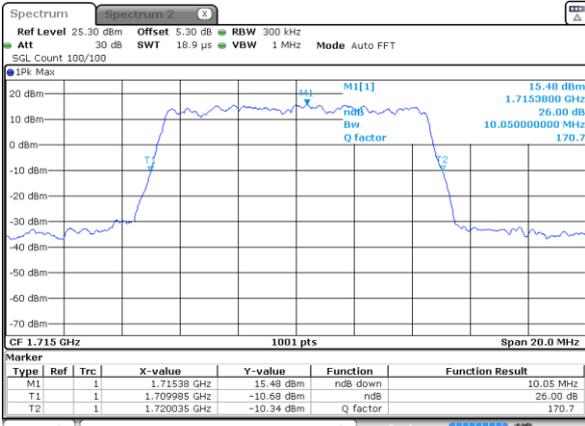


Date: 15 MAY 2020 23:10:19



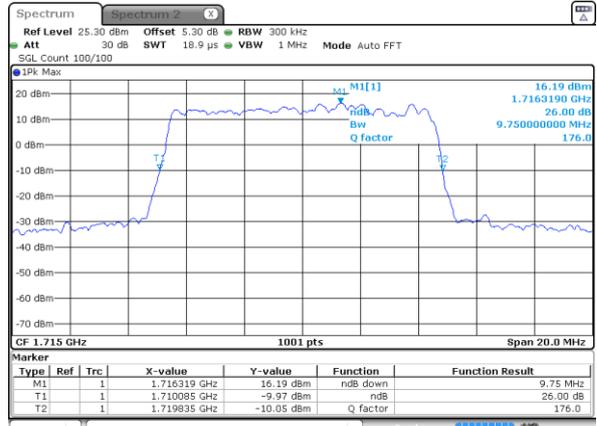
LTE Band 66

Lowest Channel / 10MHz / QPSK



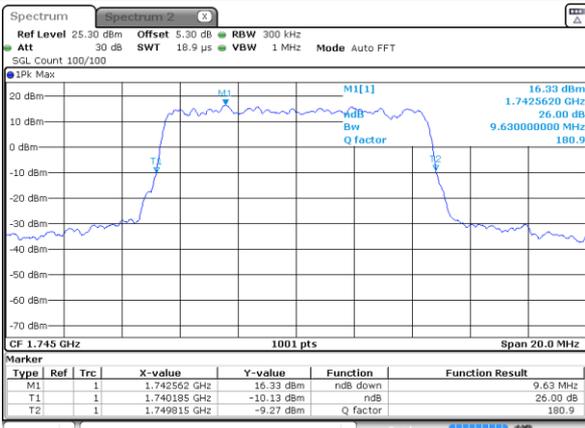
Date: 15 MAY 2020 23:22:25

Lowest Channel / 10MHz / 16QAM



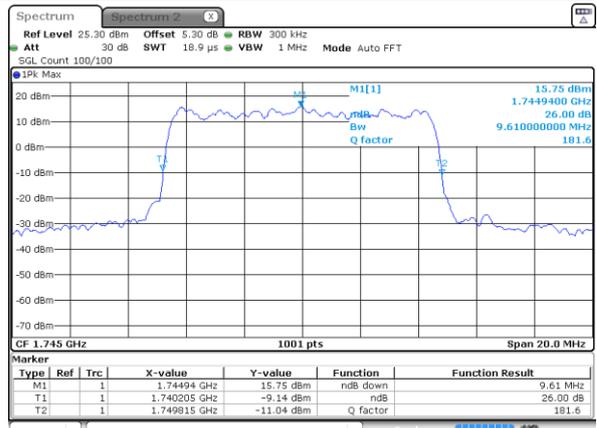
Date: 15 MAY 2020 23:22:51

Middle Channel / 10MHz / QPSK



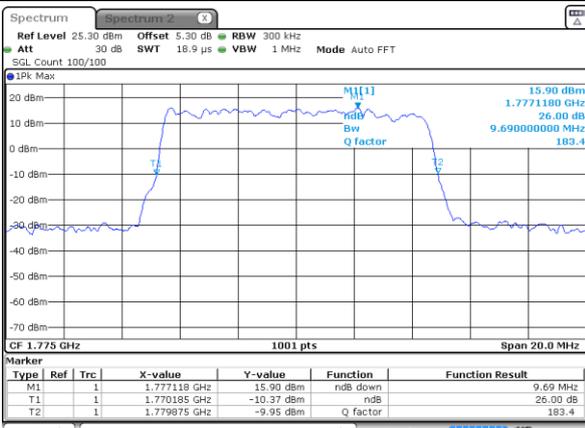
Date: 15 MAY 2020 23:30:53

Middle Channel / 10MHz / 16QAM



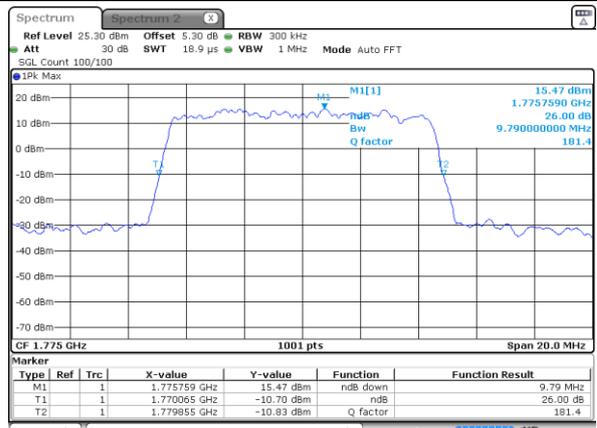
Date: 15 MAY 2020 23:30:37

Highest Channel / 10MHz / QPSK



Date: 15 MAY 2020 23:31:25

Highest Channel / 10MHz / 16QAM

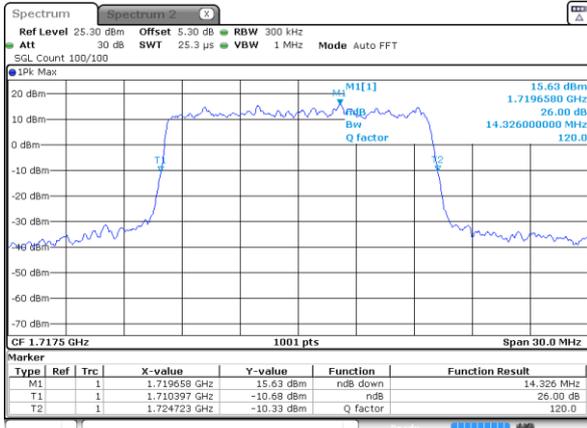


Date: 15 MAY 2020 23:31:53



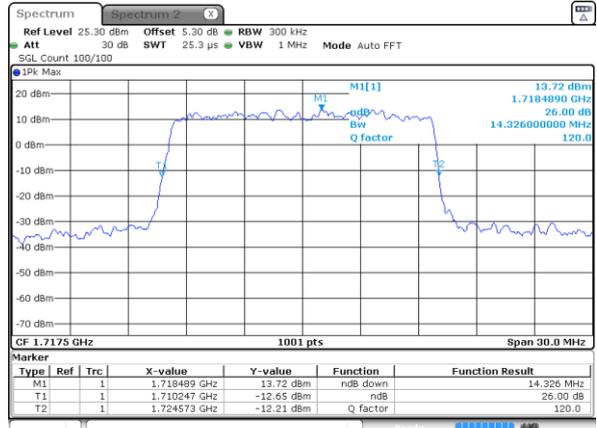
LTE Band 66

Lowest Channel / 15MHz / QPSK



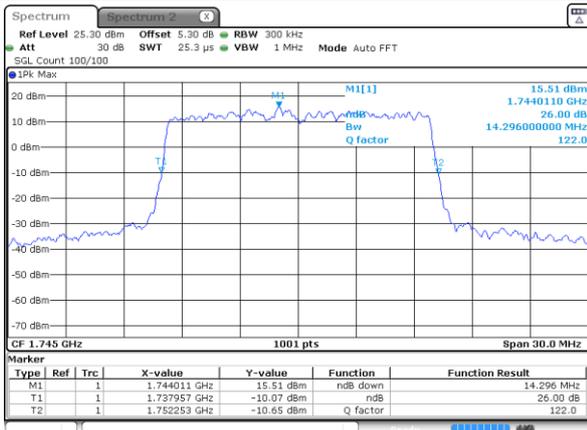
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Lowest Channel / 15MHz / 16QAM



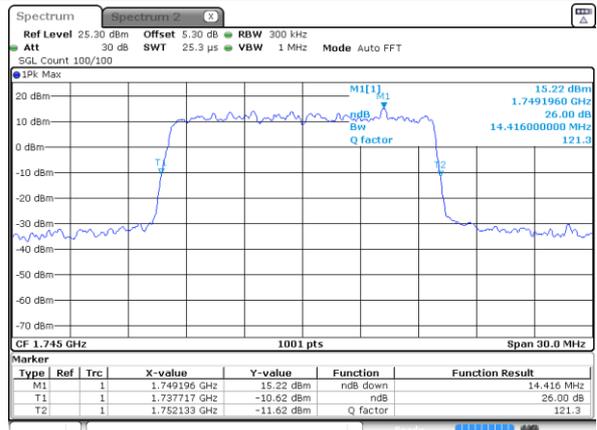
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Middle Channel / 15MHz / QPSK



Date: 15 MAY 2020 23:50:14

Middle Channel / 15MHz / 16QAM



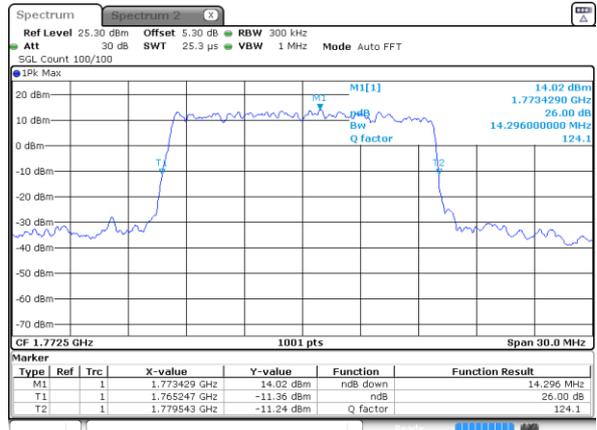
Date: 15 MAY 2020 23:49:56

Highest Channel / 15MHz / QPSK



Date: 15 MAY 2020 23:50:59

Highest Channel / 15MHz / 16QAM

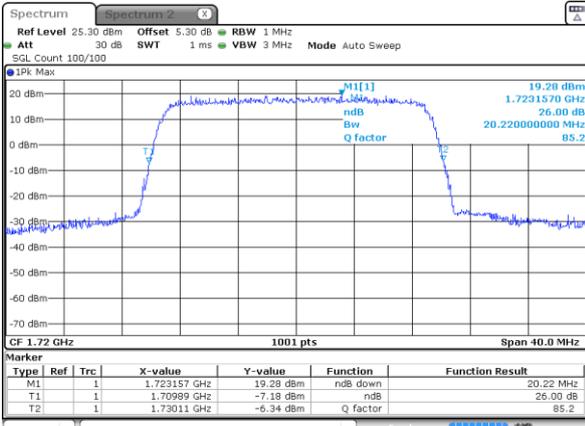


Date: 15 MAY 2020 23:51:28



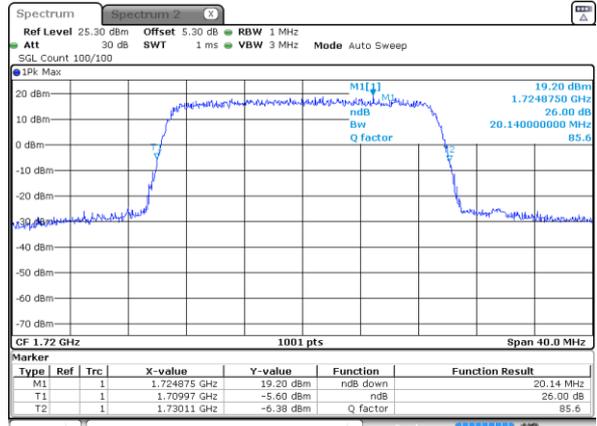
LTE Band 66

Lowest Channel / 20MHz / QPSK



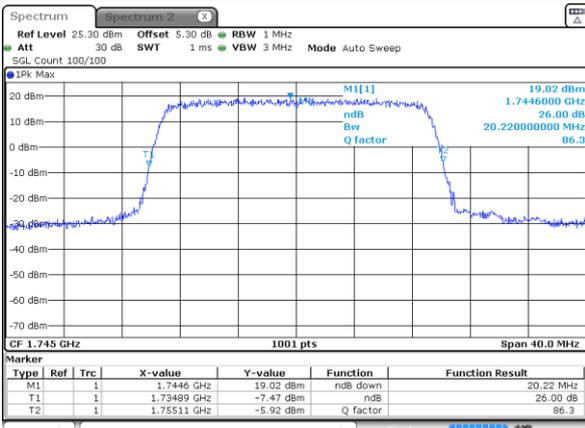
Date: 15 MAY 2020 23:58:48

Lowest Channel / 20MHz / 16QAM



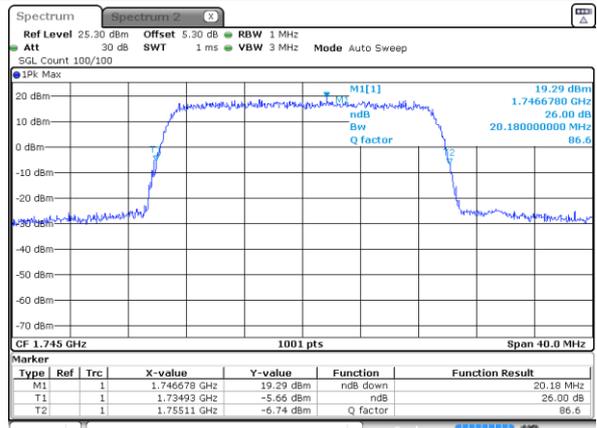
Date: 15 MAY 2020 23:59:13

Middle Channel / 20MHz / QPSK



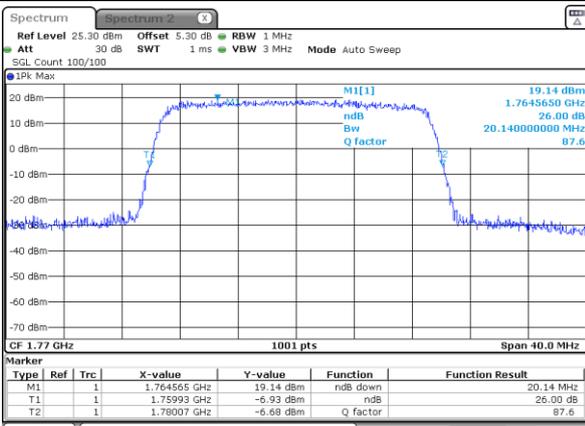
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Middle Channel / 20MHz / 16QAM



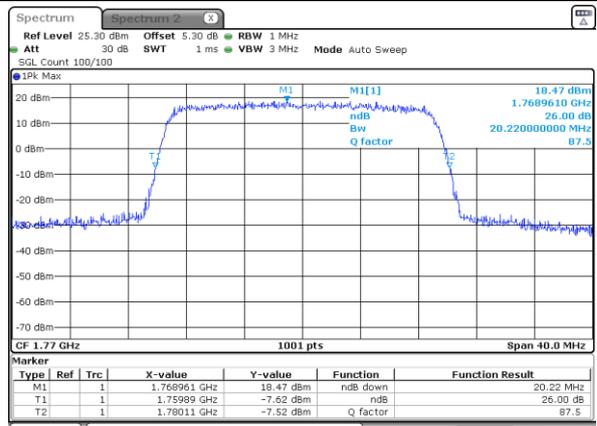
Date: 16 MAY 2020 00:06:57

Highest Channel / 20MHz / QPSK



Date: 16 MAY 2020 00:08:03

Highest Channel / 20MHz / 16QAM

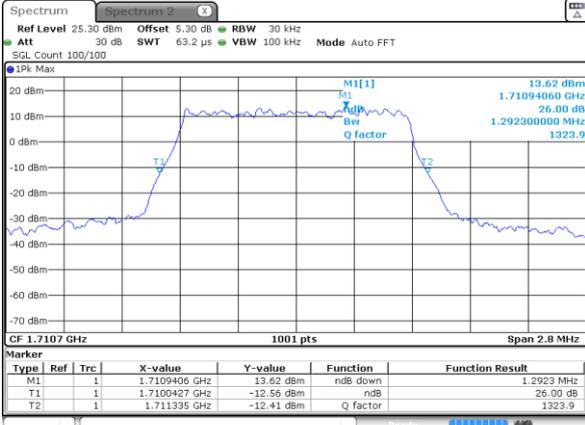


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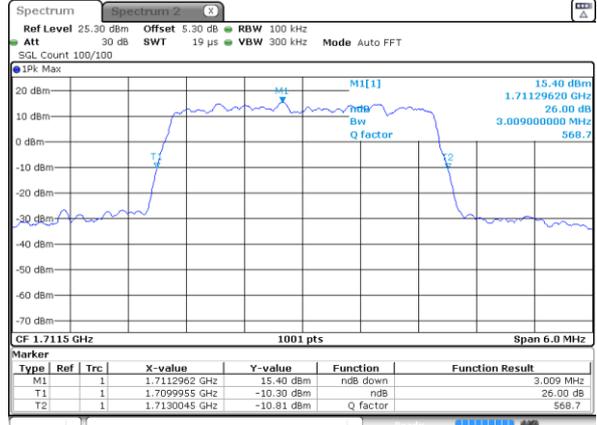
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



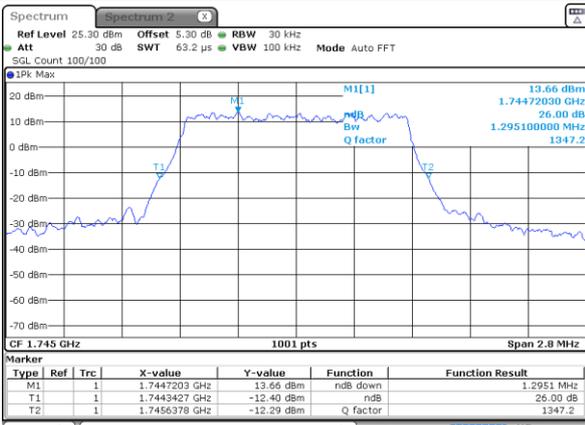
Date: 15 MAY 2020 22:10:12

Lowest Channel / 3MHz / 64QAM



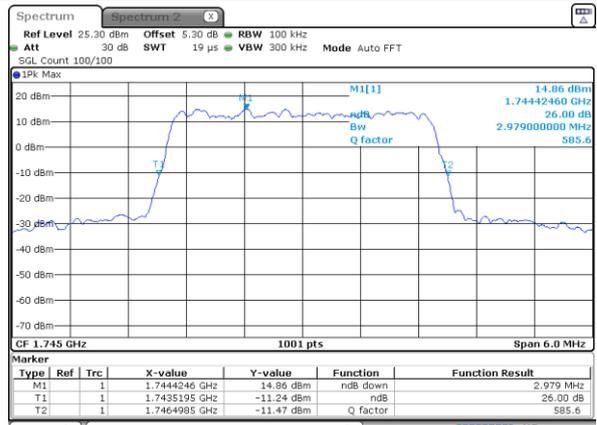
Date: 15 MAY 2020 22:37:20

Middle Channel / 20MHz / 64QAM



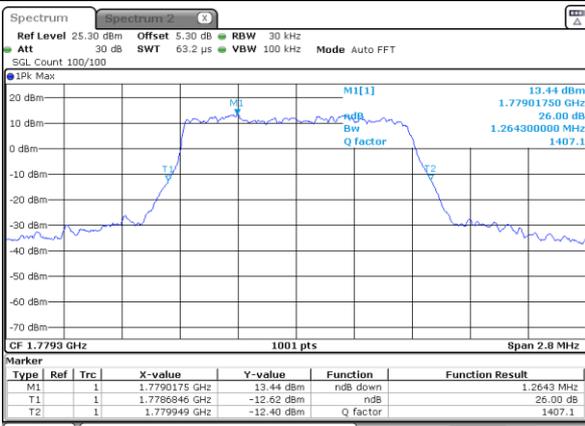
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Middle Channel / 3MHz / 64QAM



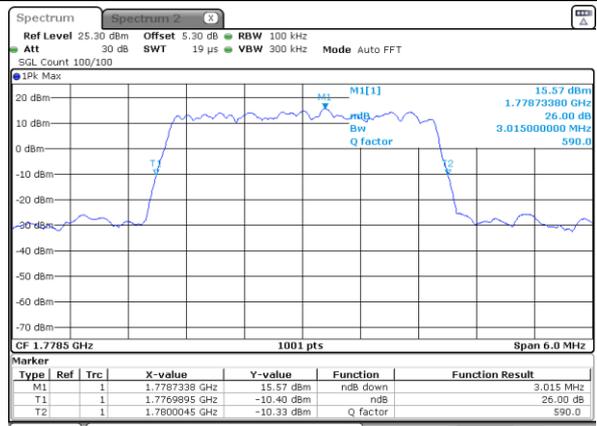
Date: 15 MAY 2020 22:49:36

Highest Channel / 20MHz / 64QAM



Date: 15 MAY 2020 22:24:42

Highest Channel / 3MHz / 64QAM

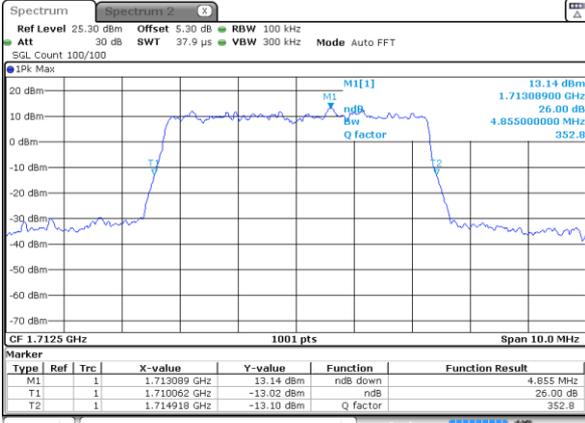


Date: 15 MAY 2020 22:53:06



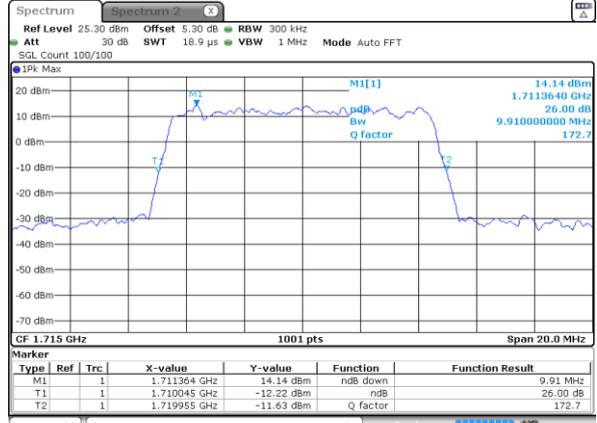
LTE Band 66

Lowest Channel / 5MHz / 64QAM



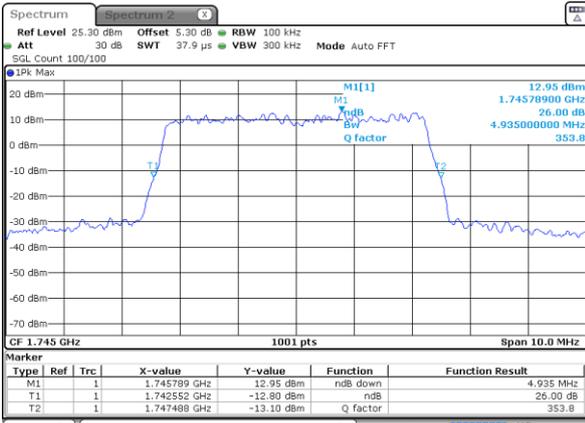
Date: 15 MAY 2020 23:00:09

Lowest Channel / 10MHz / 64QAM



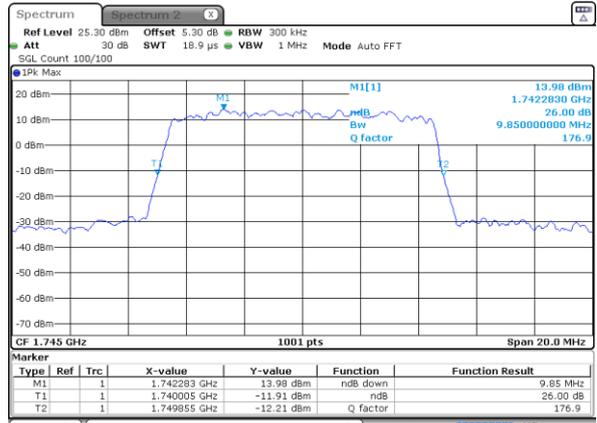
Date: 15 MAY 2020 23:23:19

Middle Channel / 5MHz / 64QAM



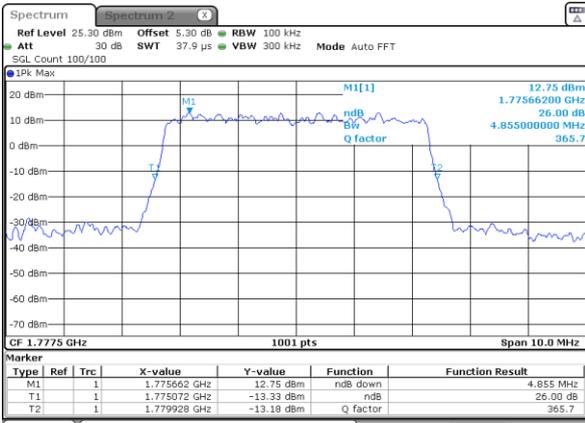
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Middle Channel / 10MHz / 64QAM



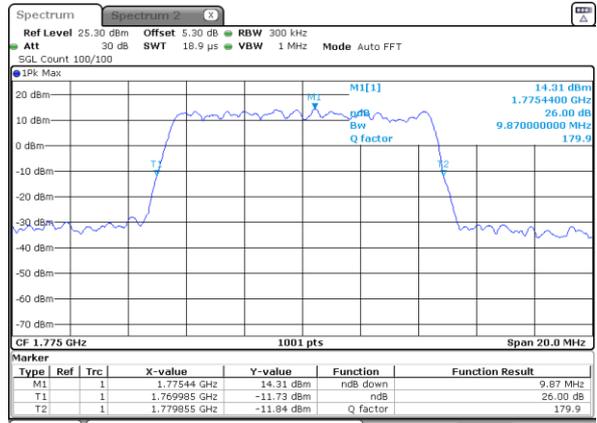
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Highest Channel / 5MHz / 64QAM



Date: 15 MAY 2020 23:10:52

Highest Channel / 10MHz / 64QAM

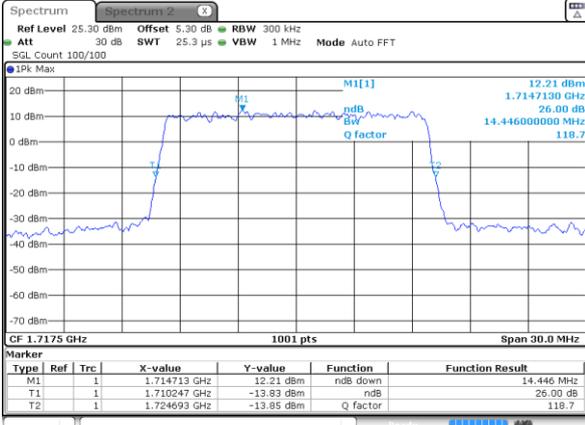


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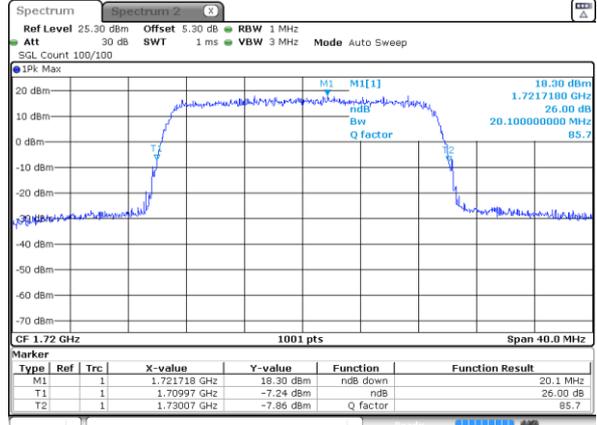
LTE Band 66

Lowest Channel / 15MHz / 64QAM



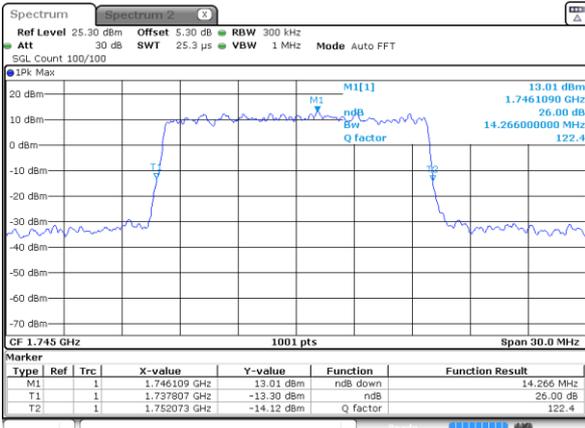
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Lowest Channel / 20MHz / 64QAM



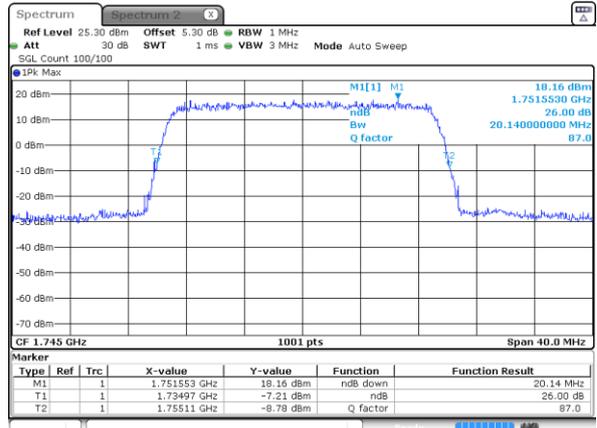
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Middle Channel / 15MHz / 64QAM



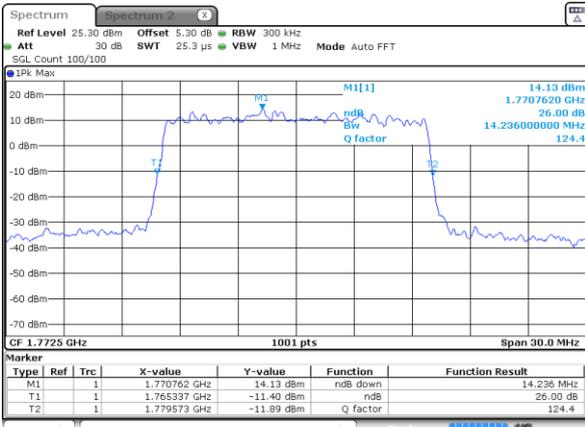
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Middle Channel / 20MHz / 64QAM



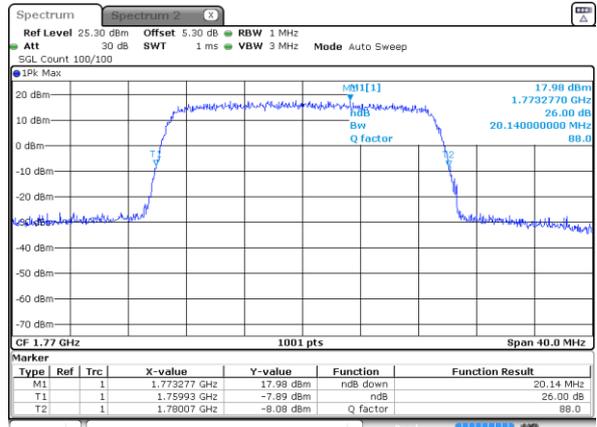
Date: 16 MAY 2020 00:06:37

Highest Channel / 15MHz / 64QAM



Date: 15 MAY 2020 23:51:56

Highest Channel / 20MHz / 64QAM



Date: 16 MAY 2020 00:09:49



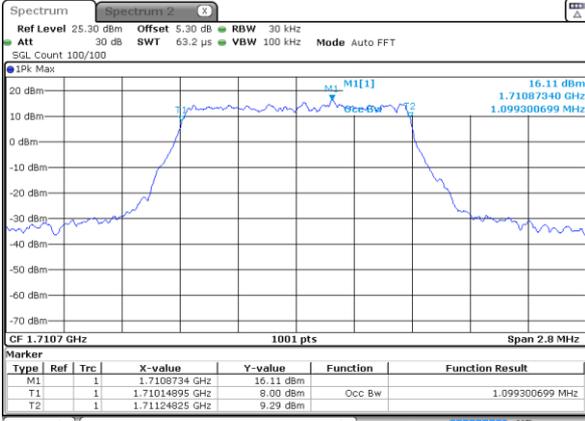
Occupied Bandwidth

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	1.10	1.09	2.71	2.72	4.51	4.52	8.99	8.97	13.49	13.37	18.34	18.22
Middle CH	1.10	1.09	2.73	2.72	4.49	4.49	9.01	8.99	13.37	13.40	18.34	18.34
Highest CH	1.10	1.09	2.73	2.71	4.49	4.50	8.97	8.95	13.40	13.40	18.26	18.26
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.72	-	4.50	-	9.05	-	13.37	-	18.26	-
Middle CH	1.09	-	2.73	-	4.53	-	9.01	-	13.43	-	18.30	-
Highest CH	1.09	-	2.72	-	4.48	-	9.03	-	13.37	-	18.26	-



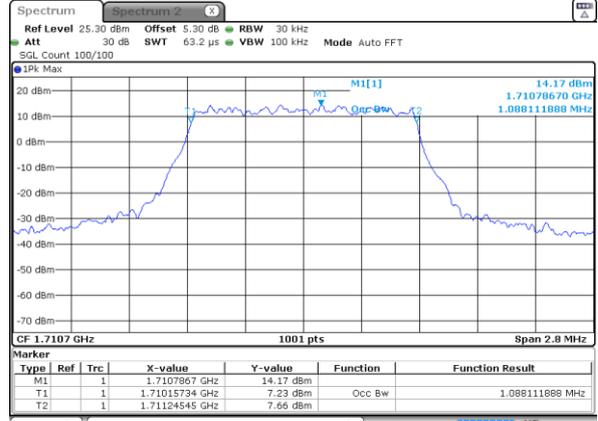
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



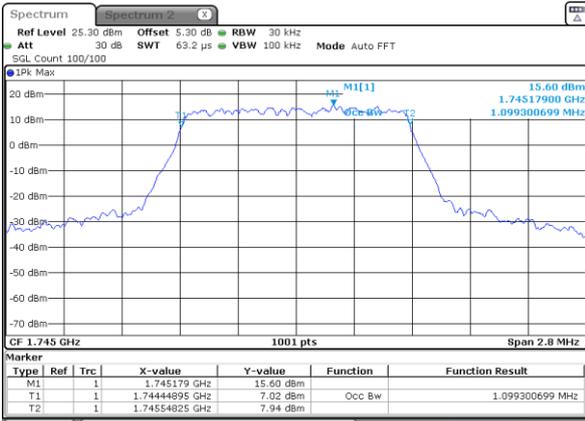
Date: 15 MAY 2020 22:06:54

Lowest Channel / 1.4MHz / 16QAM



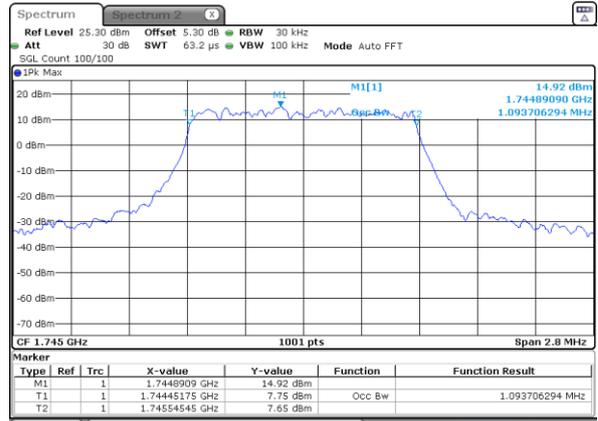
Date: 15 MAY 2020 22:08:47

Middle Channel / 1.4MHz / QPSK



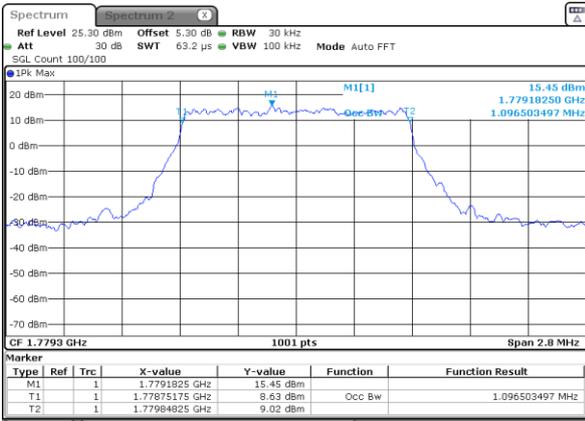
Date: 15 MAY 2020 22:21:11

Middle Channel / 1.4MHz / 16QAM



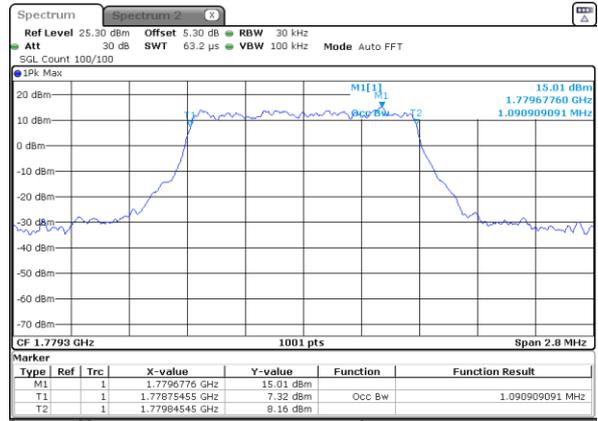
Date: 15 MAY 2020 22:20:56

Highest Channel / 1.4MHz / QPSK



Date: 15 MAY 2020 22:21:36

Highest Channel / 1.4MHz / 16QAM

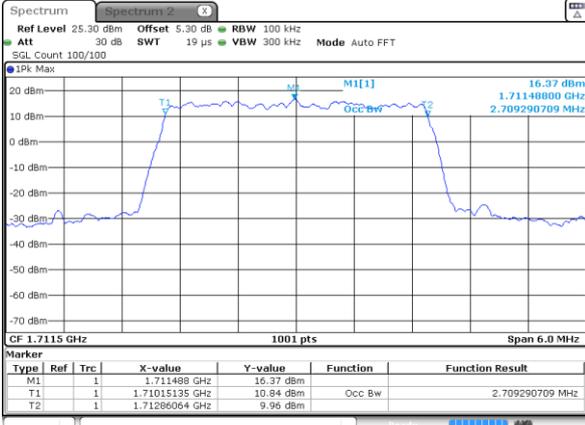


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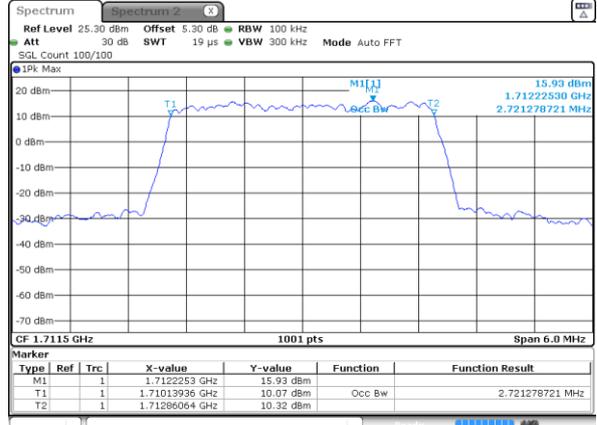
LTE Band 66

Lowest Channel / 3MHz / QPSK



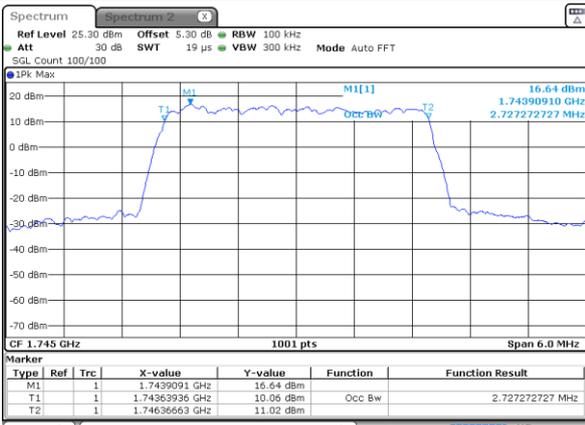
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Lowest Channel / 3MHz / 16QAM



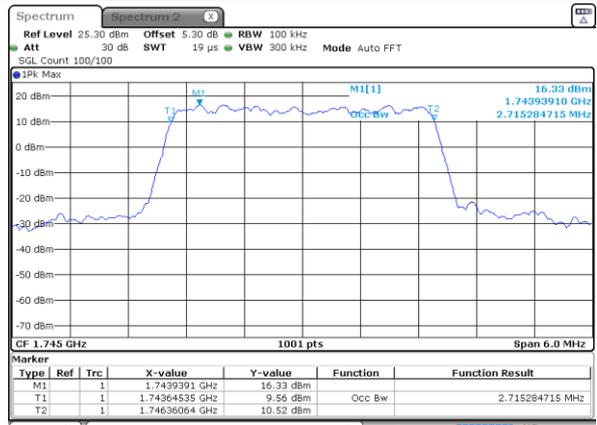
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Middle Channel / 3MHz / QPSK



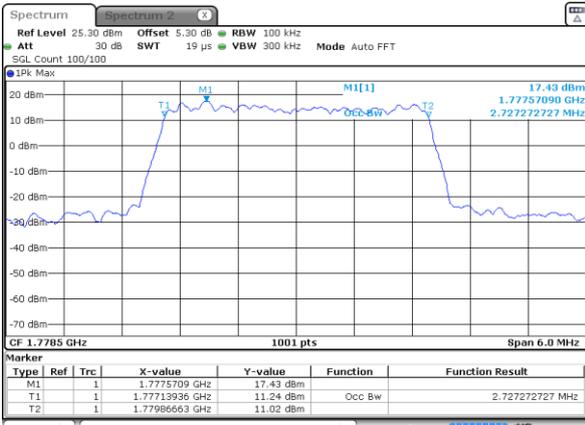
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Middle Channel / 3MHz / 16QAM



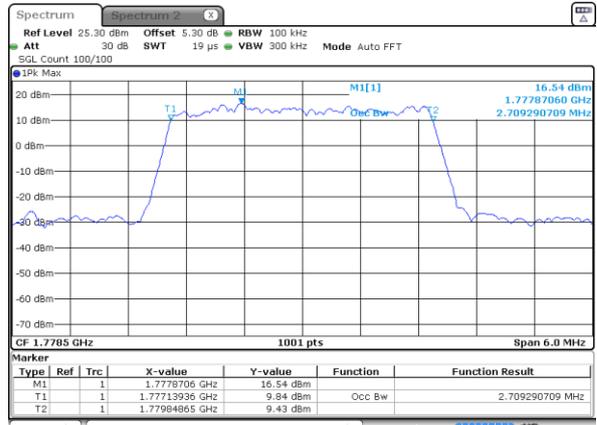
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Highest Channel / 3MHz / QPSK



Date: 15 MAY 2020 22:50:59

Highest Channel / 3MHz / 16QAM

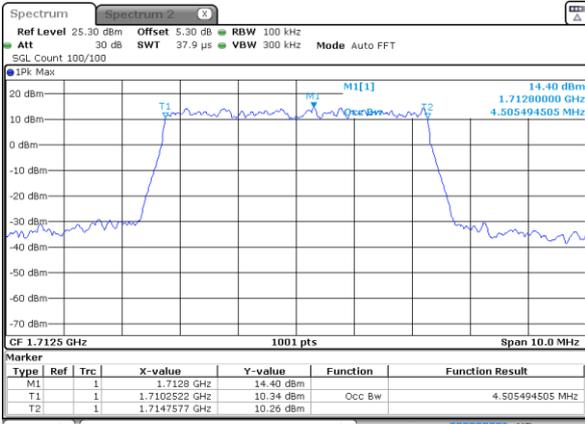


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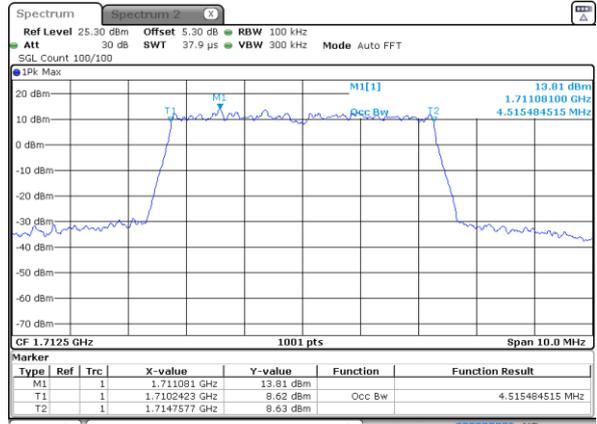
LTE Band 66

Lowest Channel / 5MHz / QPSK



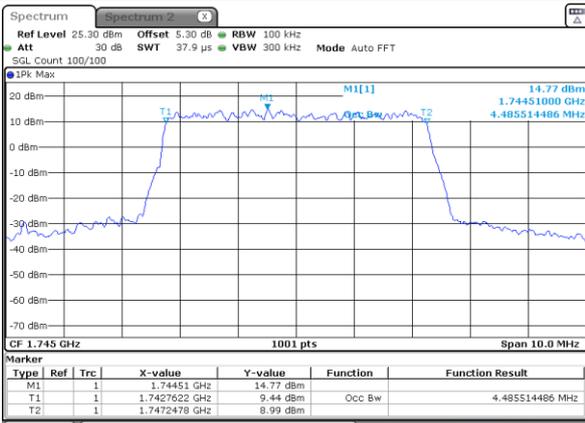
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Lowest Channel / 5MHz / 16QAM



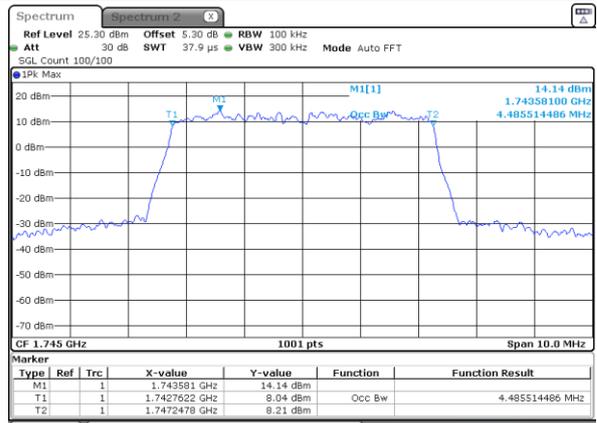
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Middle Channel / 5MHz / QPSK



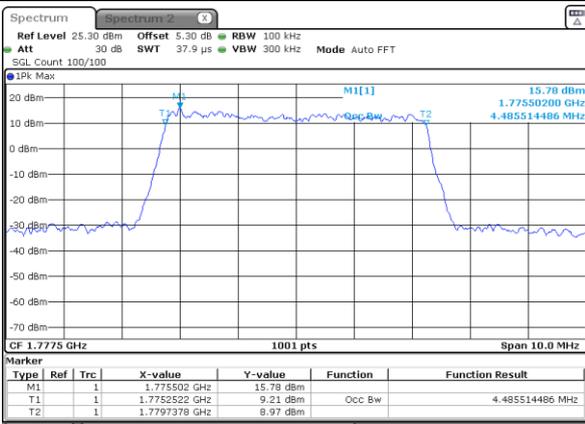
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Middle Channel / 5MHz / 16QAM



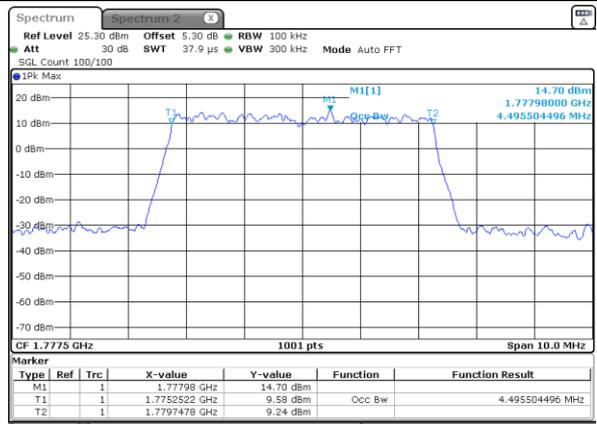
Date: 15 MAY 2020 23:08:46

Highest Channel / 5MHz / QPSK



Date: 15 MAY 2020 23:09:37

Highest Channel / 5MHz / 16QAM



Date: 15 MAY 2020 23:10:13