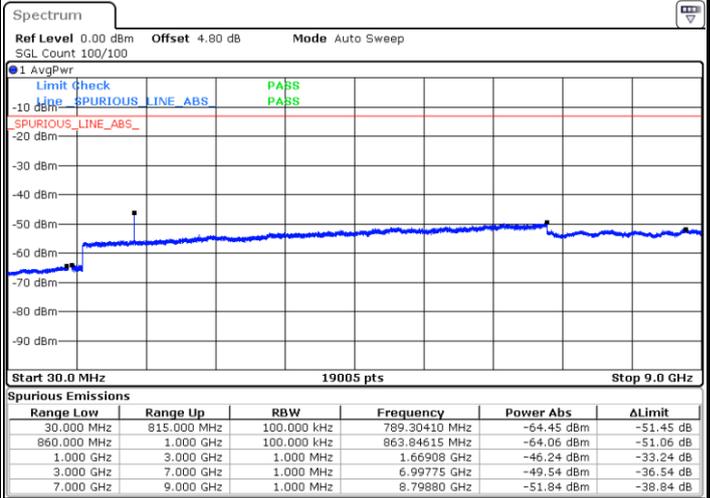
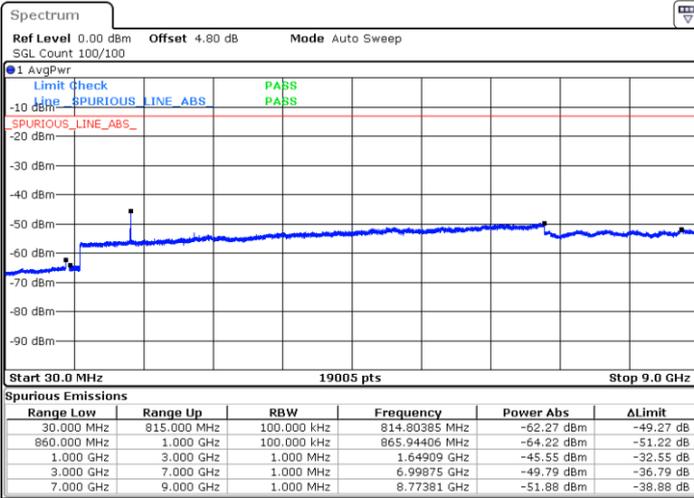




LTE Band 5 / 5MHz

Lowest Channel / 64QAM

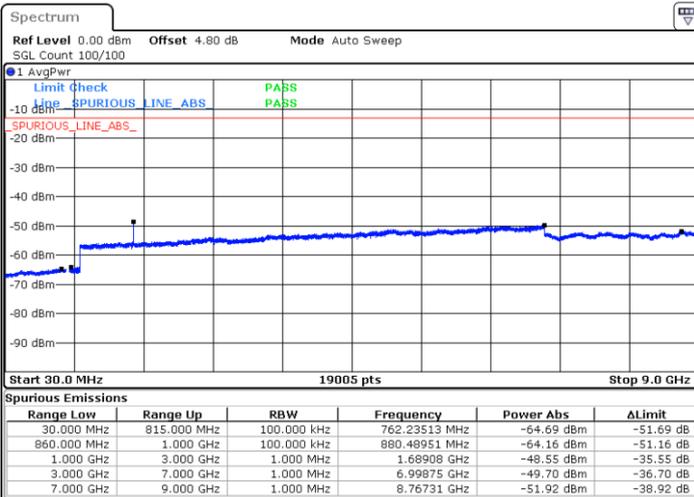
Middle Channel / 64QAM



Date: 7.AUG.2020 08:20:09

Date: 7.AUG.2020 08:21:03

Highest Channel / 64QAM



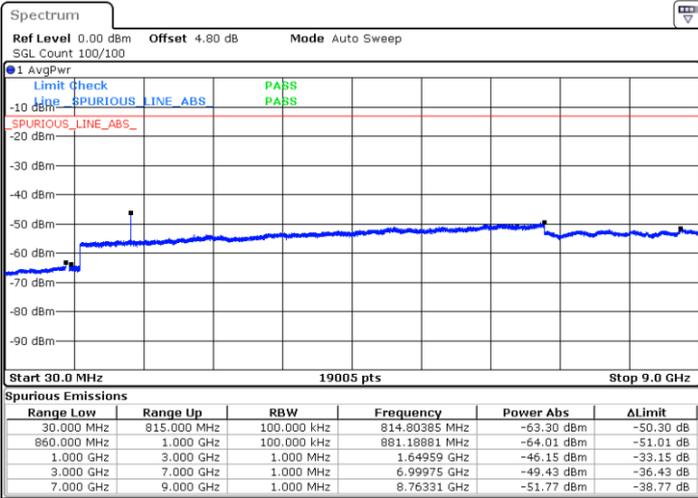
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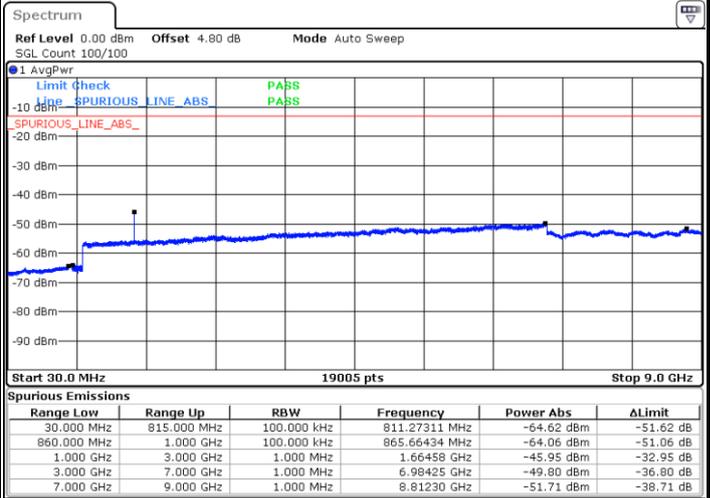
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

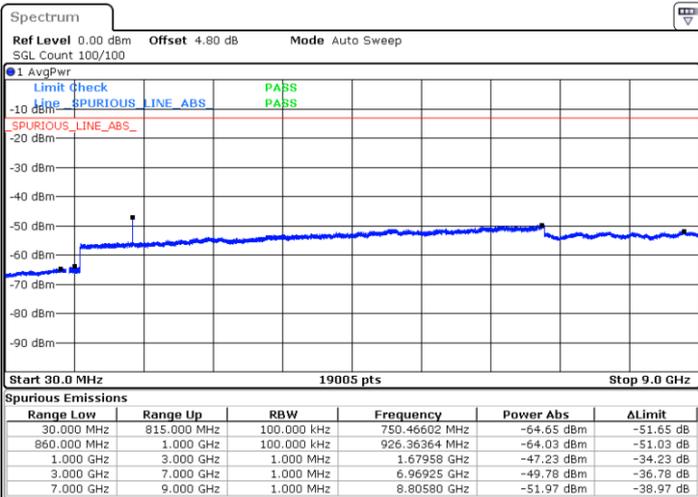


Date: 7.AUG.2020 08:30:21



Date: 7.AUG.2020 08:31:15

Highest Channel / 64QAM



Date: 7.AUG.2020 08:36:04



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.



# LTE Band 7

## Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.93	5.22	6.00	PASS
Middle CH	3.54	5.01	4.99	5.94	
Highest CH	3.19	4.90	4.35	5.88	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.32	6.49	-	-	PASS
Middle CH	6.43	6.43	-	-	
Highest CH	6.70	6.32	-	-	



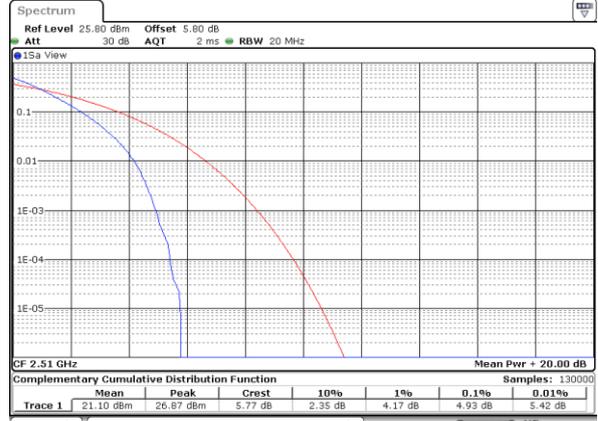
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



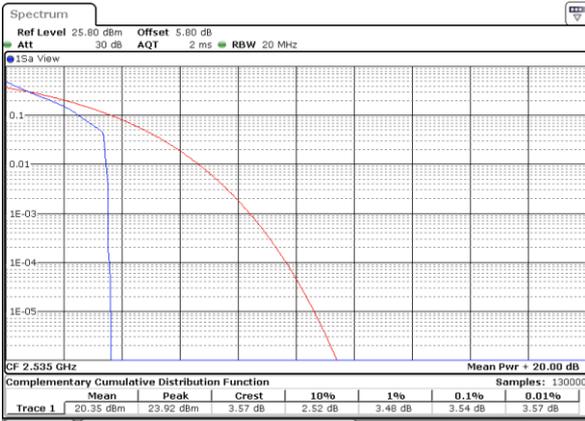
Date: 7 AUG 2020 16:49:56

Lowest Channel / Full RB



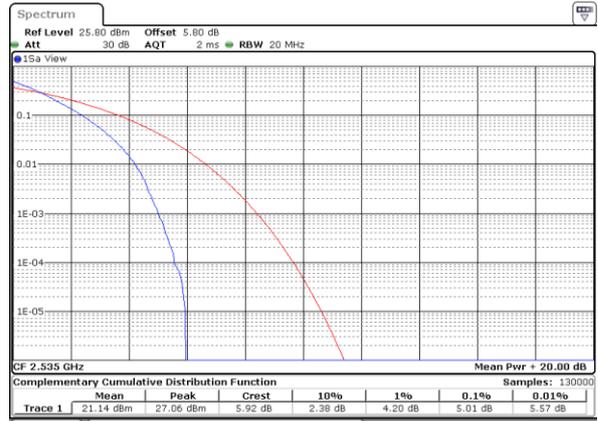
Date: 7 AUG 2020 16:50:05

Middle Channel / 1RB



Date: 7 AUG 2020 16:51:18

Middle Channel / Full RB



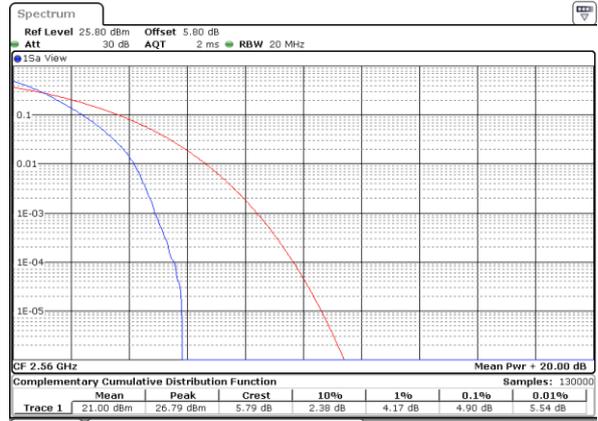
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Highest Channel / 1RB



Date: 7 AUG 2020 16:51:56

Highest Channel / Full RB



Date: 7 AUG 2020 16:52:06



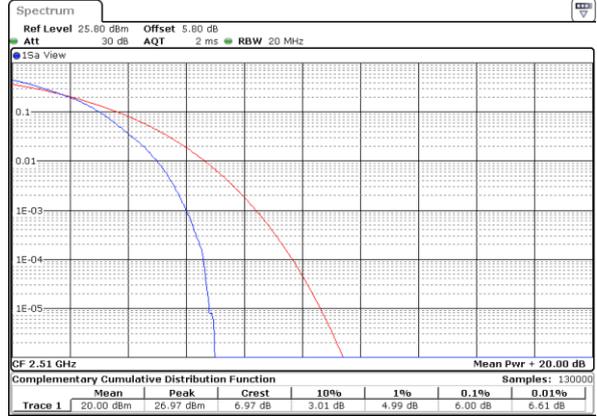
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



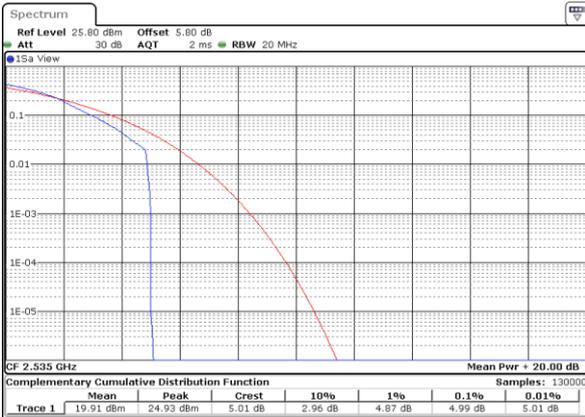
Date: 7 AUG 2020 16:49:46

Lowest Channel / Full RB



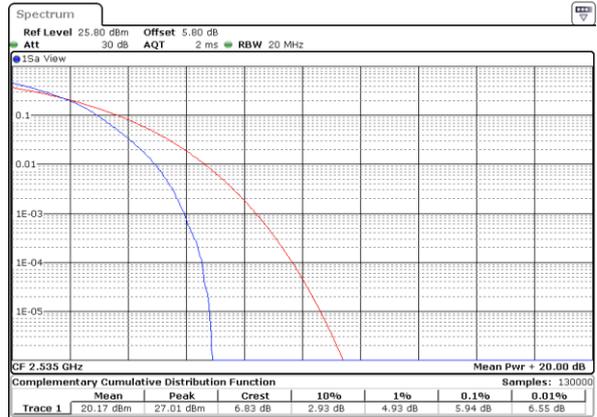
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Middle Channel / 1RB



Date: 7 AUG 2020 16:51:35

Middle Channel / Full RB



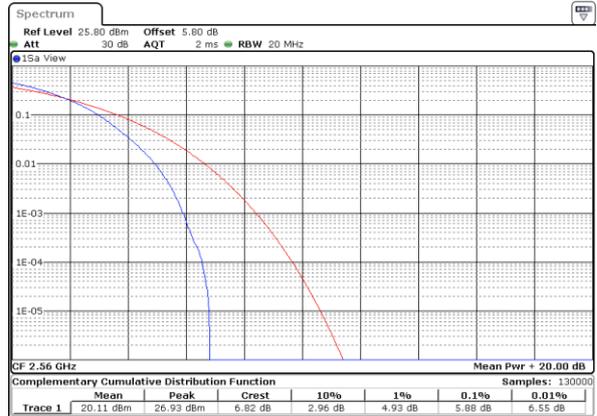
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Highest Channel / 1RB



Date: 7 AUG 2020 16:51:46

Highest Channel / Full RB

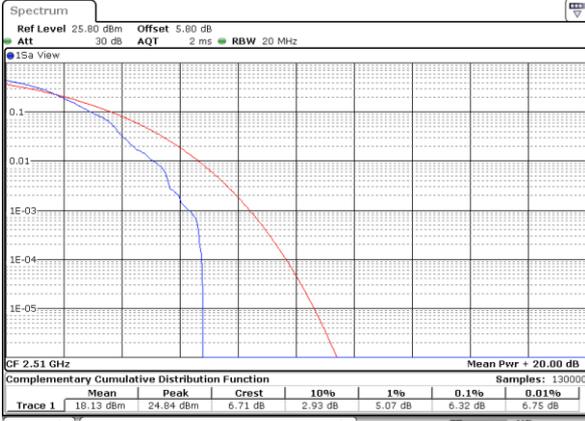


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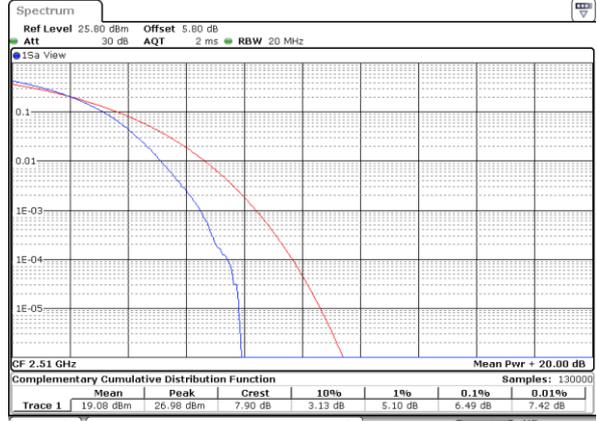
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



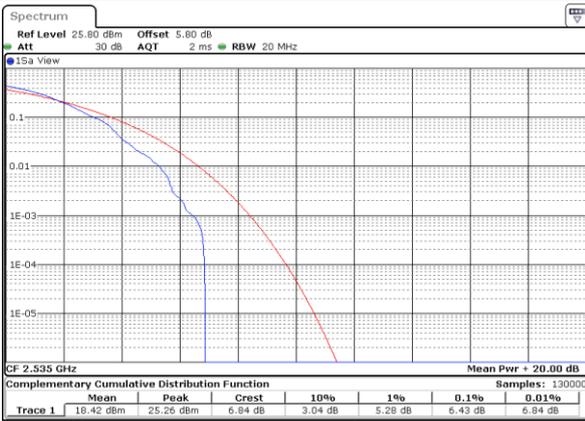
Date: 7 AUG 2020 16:47:38

Lowest Channel / Full RB



Date: 7 AUG 2020 16:48:28

Middle Channel / 1RB



Date: 7 AUG 2020 16:49:12

Middle Channel / Full RB



Date: 7 AUG 2020 16:49:03

Highest Channel / 1RB



Date: 7 AUG 2020 16:49:24

Highest Channel / Full RB



Date: 7 AUG 2020 16:49:36



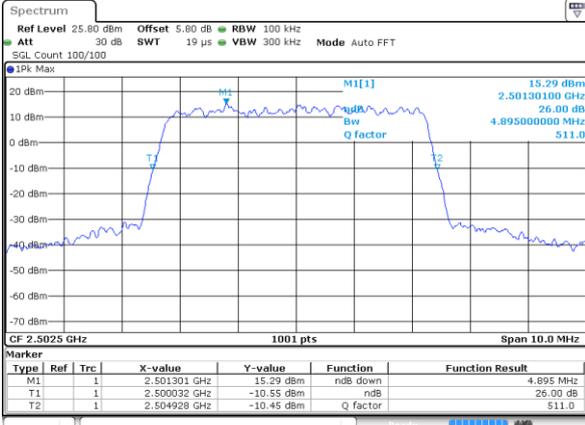
26dB Bandwidth

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	-	-	-	-	4.90	4.89	9.91	9.65	14.27	14.48	20.18	20.10
Middle CH	-	-	-	-	4.89	4.87	9.67	9.79	14.54	14.51	20.18	20.30
Highest CH	-	-	-	-	4.98	4.97	9.79	9.77	14.39	14.42	20.34	20.14
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	9.69	-	14.30	-	20.18	-
Middle CH	-	-	-	-	4.90	-	9.69	-	14.21	-	20.30	-
Highest CH	-	-	-	-	4.87	-	9.71	-	14.27	-	20.14	-



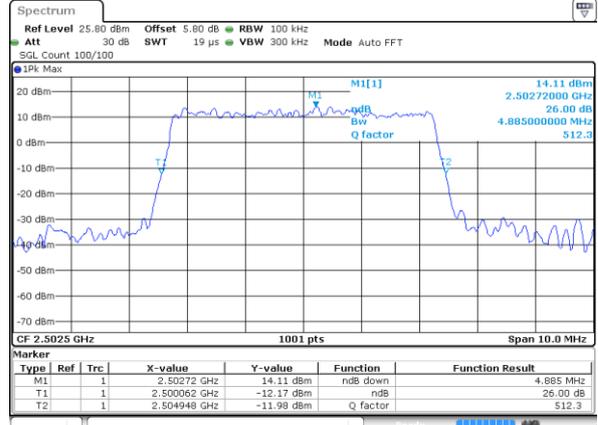
LTE Band 7

Lowest Channel / 5MHz / QPSK



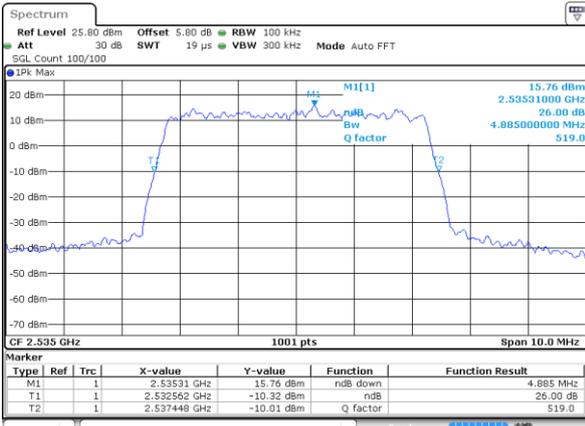
Date: 7 AUG 2020 14:59:39

Lowest Channel / 5MHz / 16QAM



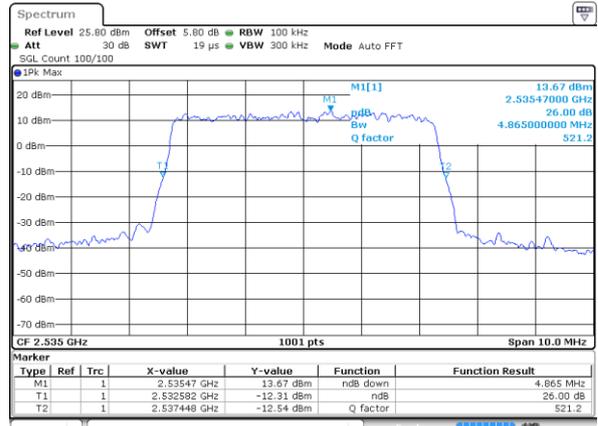
Date: 7 AUG 2020 14:59:59

Middle Channel / 5MHz / QPSK



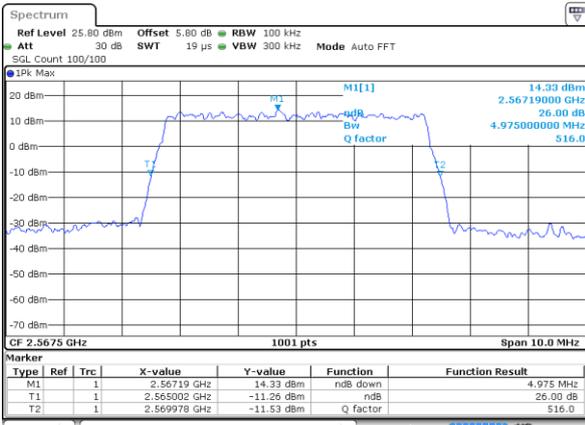
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Middle Channel / 5MHz / 16QAM



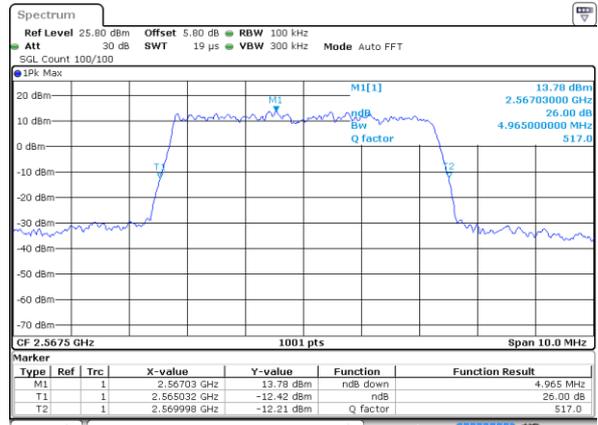
Date: 7 AUG 2020 15:00:19

Highest Channel / 5MHz / QPSK



Date: 7 AUG 2020 15:00:58

Highest Channel / 5MHz / 16QAM

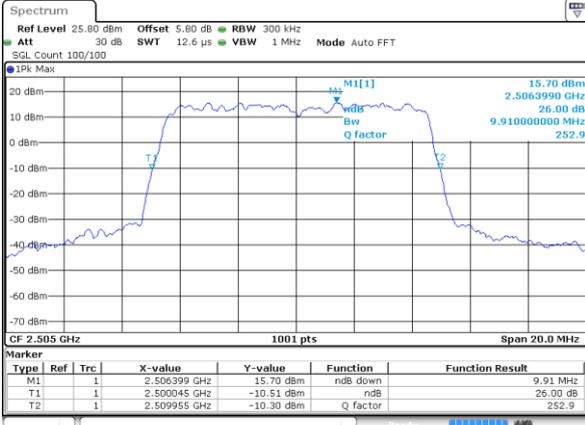


Date: 7 AUG 2020 15:01:18



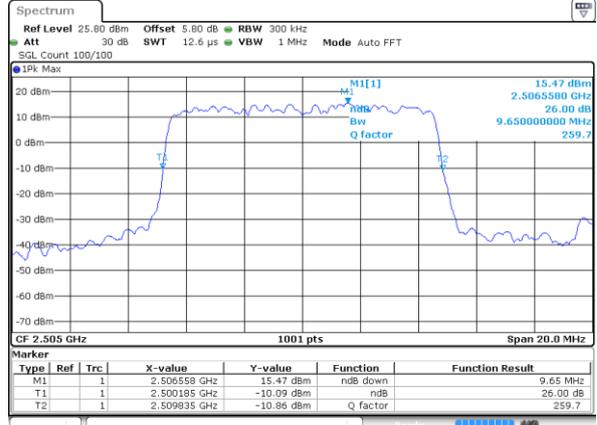
LTE Band 7

Lowest Channel / 10MHz / QPSK



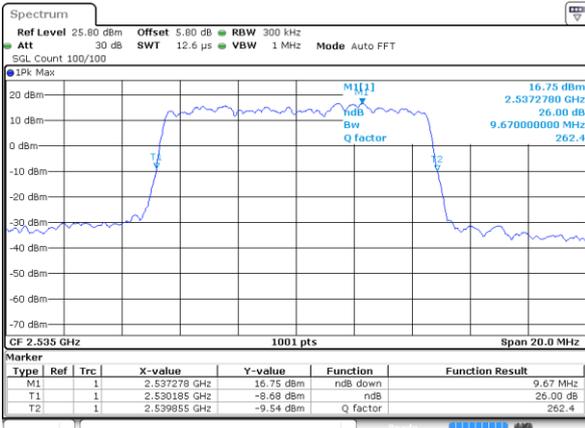
Date: 7 AUG 2020 15:16:06

Lowest Channel / 10MHz / 16QAM



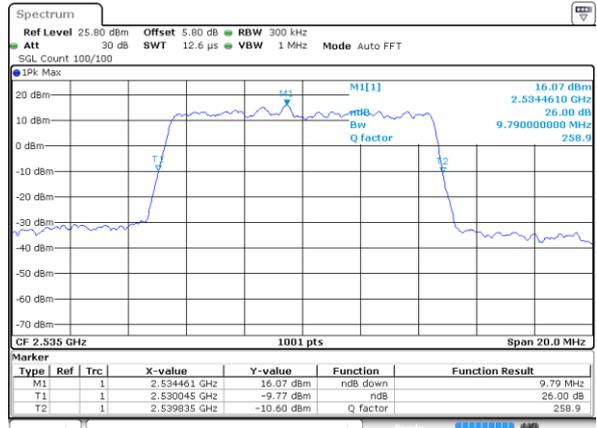
Date: 7 AUG 2020 15:16:26

Middle Channel / 10MHz / QPSK



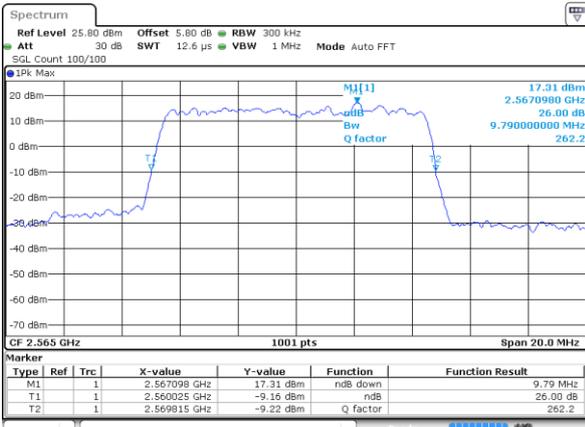
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Middle Channel / 10MHz / 16QAM



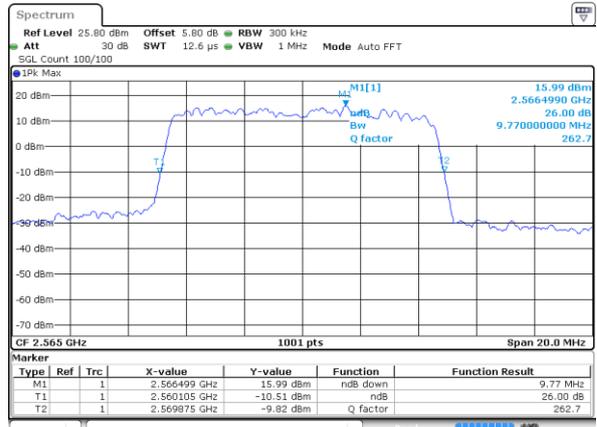
Date: 7 AUG 2020 15:16:46

Highest Channel / 10MHz / QPSK



Date: 7 AUG 2020 15:17:26

Highest Channel / 10MHz / 16QAM

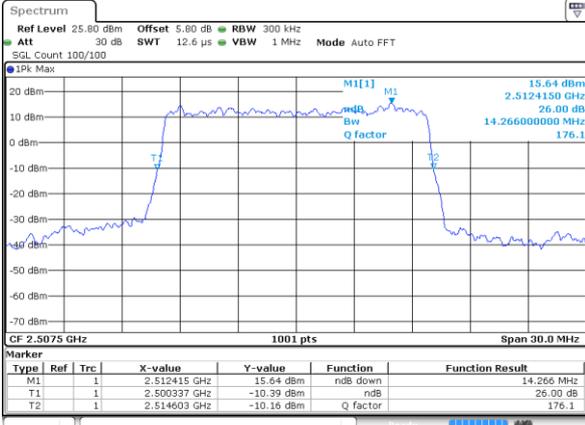


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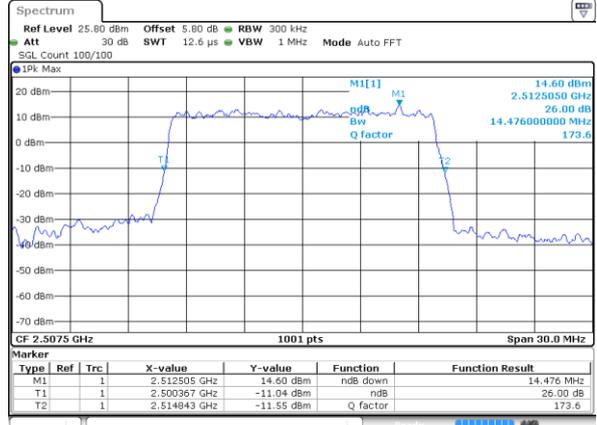
LTE Band 7

Lowest Channel / 15MHz / QPSK



Date: 7 AUG 2020 15:32:52

Lowest Channel / 15MHz / 16QAM



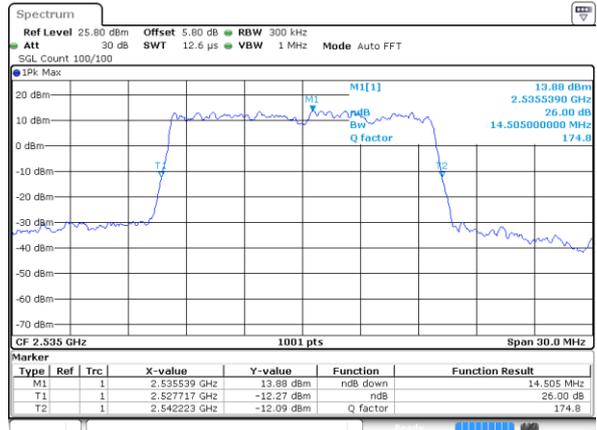
Date: 7 AUG 2020 15:32:32

Middle Channel / 15MHz / QPSK



Date: 7 AUG 2020 15:33:12

Middle Channel / 15MHz / 16QAM



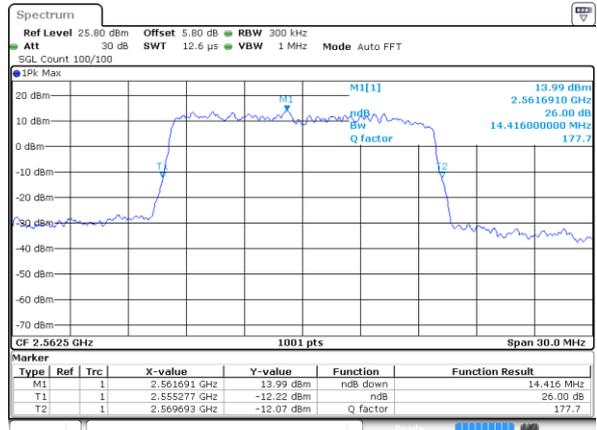
Date: 7 AUG 2020 15:33:32

Highest Channel / 15MHz / QPSK



Date: 7 AUG 2020 15:34:12

Highest Channel / 15MHz / 16QAM

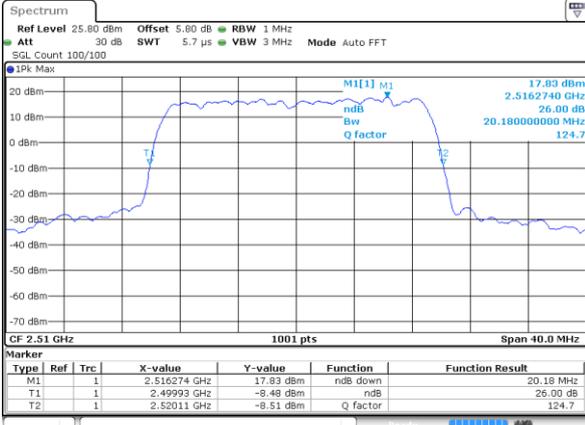


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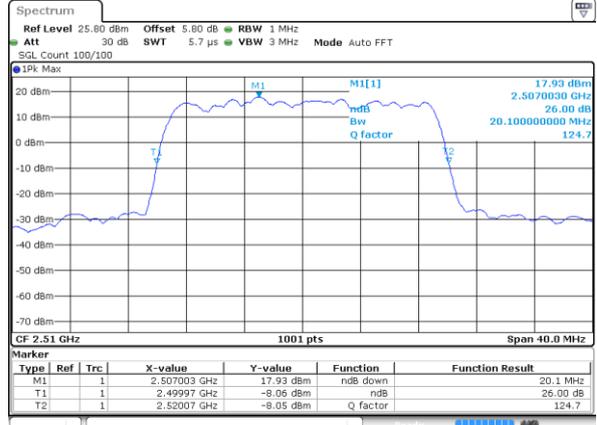
LTE Band 7

Lowest Channel / 20MHz / QPSK



Date: 7 AUG 2020 15:49:19

Lowest Channel / 20MHz / 16QAM



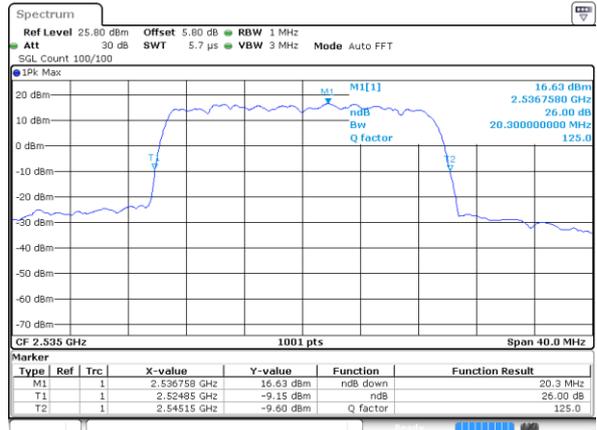
Date: 7 AUG 2020 15:48:59

Middle Channel / 20MHz / QPSK



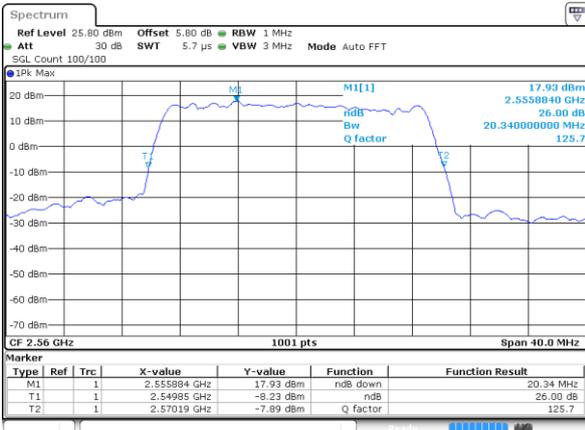
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Middle Channel / 20MHz / 16QAM



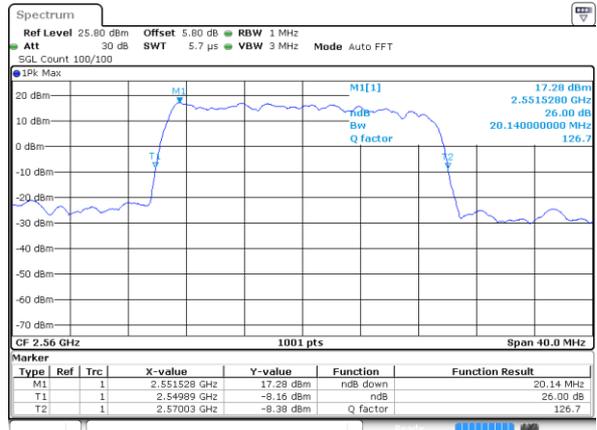
Date: 7 AUG 2020 15:49:59

Highest Channel / 20MHz / QPSK



Date: 7 AUG 2020 15:50:39

Highest Channel / 20MHz / 16QAM

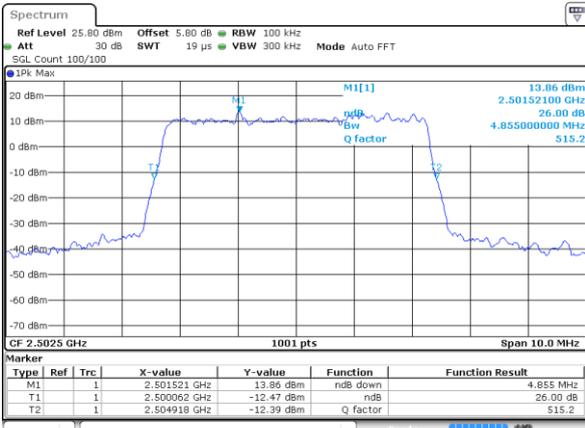


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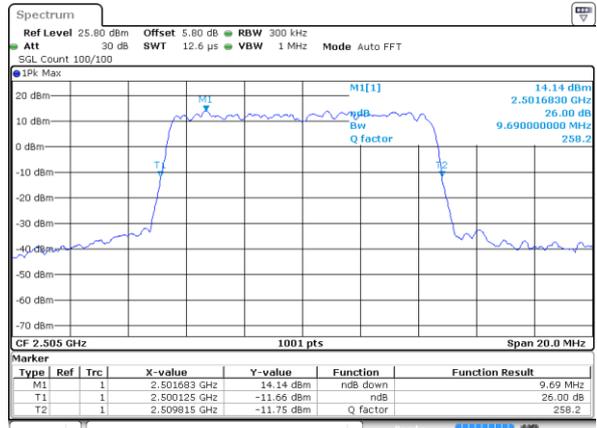
LTE Band 7

Lowest Channel / 5MHz / 64QAM



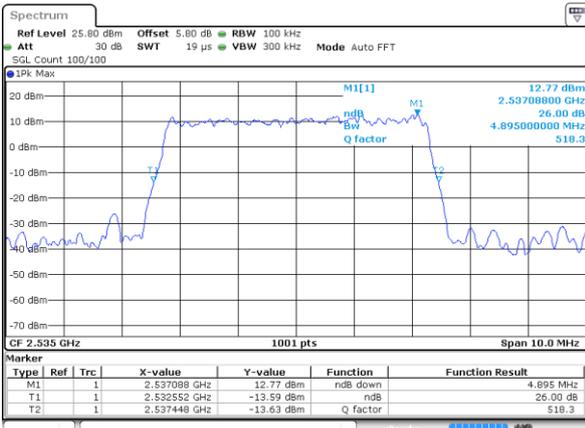
Date: 7 AUG 2020 16:05:47

Lowest Channel / 10MHz / 64QAM



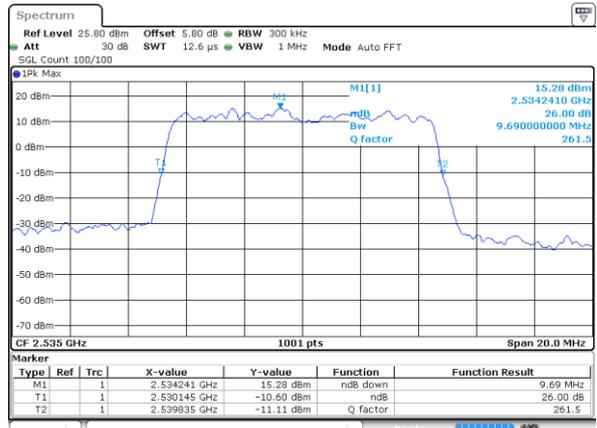
Date: 7 AUG 2020 16:14:00

Middle Channel / 5MHz / 64QAM



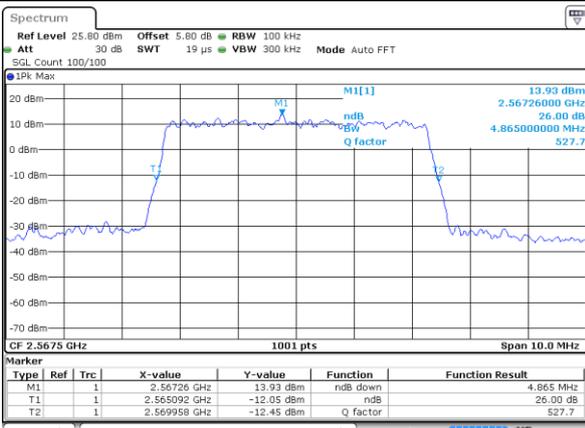
Date: 7 AUG 2020 16:05:57

Middle Channel / 10MHz / 64QAM



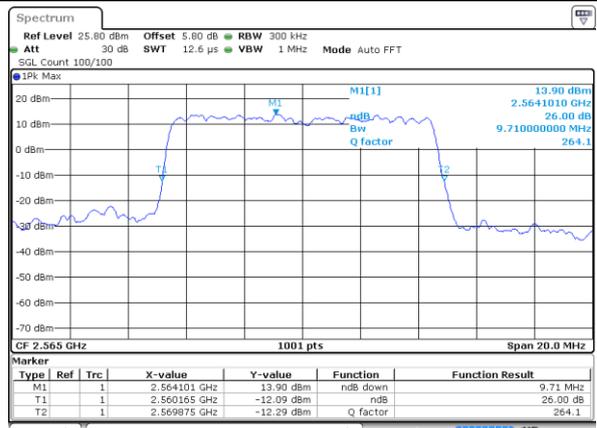
Date: 7 AUG 2020 16:14:10

Highest Channel / 5MHz / 64QAM



Date: 7 AUG 2020 16:06:07

Highest Channel / 10MHz / 64QAM

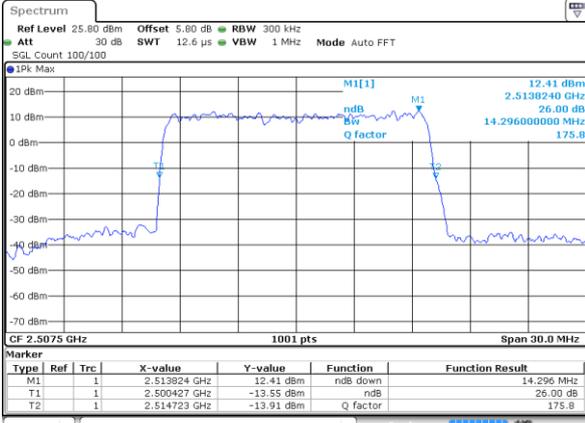


Date: 7 AUG 2020 16:14:20



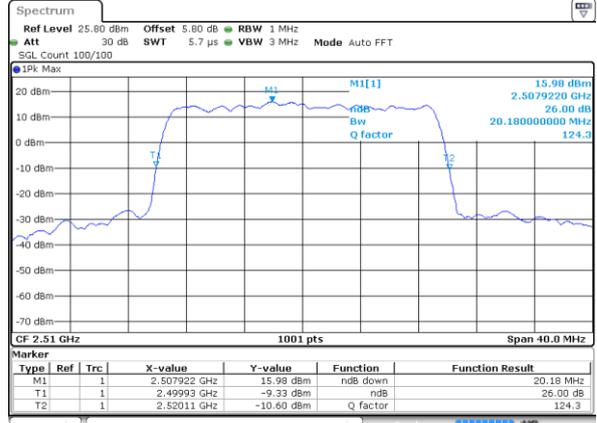
LTE Band 7

Lowest Channel / 15MHz / 64QAM



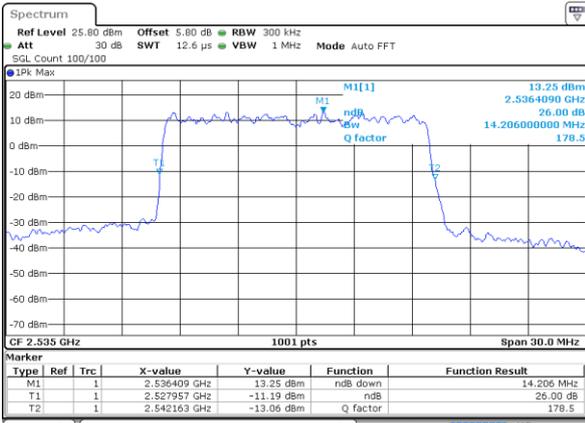
Date: 7 AUG 2020 16:22:14

Lowest Channel / 20MHz / 64QAM



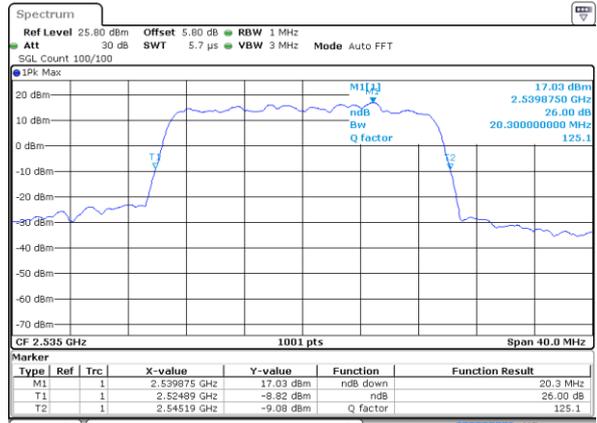
Date: 7 AUG 2020 16:30:27

Middle Channel / 15MHz / 64QAM



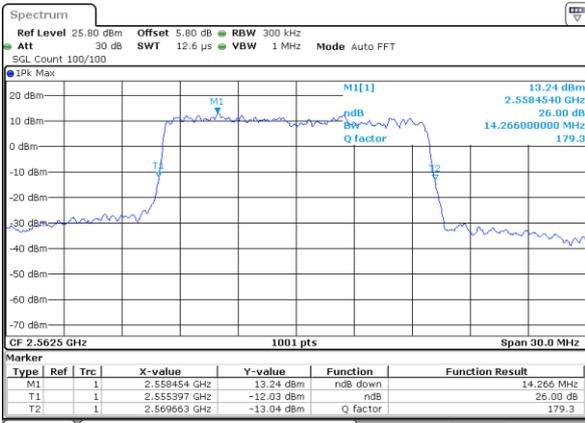
Date: 7 AUG 2020 16:22:23

Middle Channel / 20MHz / 64QAM



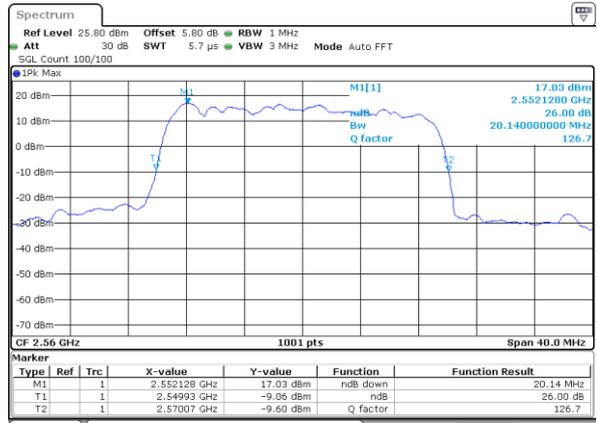
Date: 7 AUG 2020 16:30:37

Highest Channel / 15MHz / 64QAM



Date: 7 AUG 2020 16:22:33

Highest Channel / 20MHz / 64QAM



Date: 7 AUG 2020 16:30:47



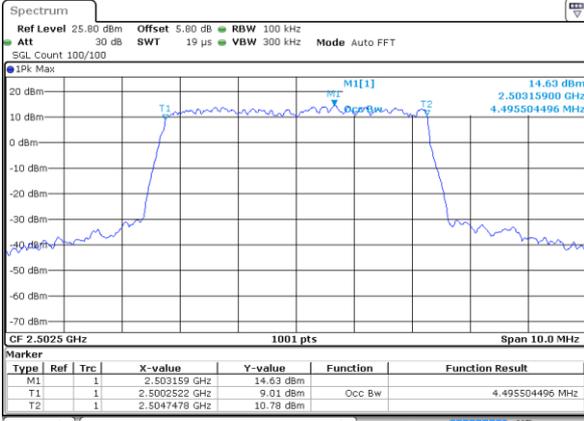
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.50	4.47	9.07	9.03	13.40	13.49	18.34	18.34
Middle CH	-	-	-	-	4.49	4.49	8.99	8.95	13.40	13.43	18.18	18.42
Highest CH	-	-	-	-	4.49	4.49	9.01	8.93	13.46	13.31	18.26	18.22
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.01	-	13.43	-	18.26	-
Middle CH	-	-	-	-	4.48	-	9.07	-	13.49	-	18.30	-
Highest CH	-	-	-	-	4.50	-	9.03	-	13.40	-	18.26	-



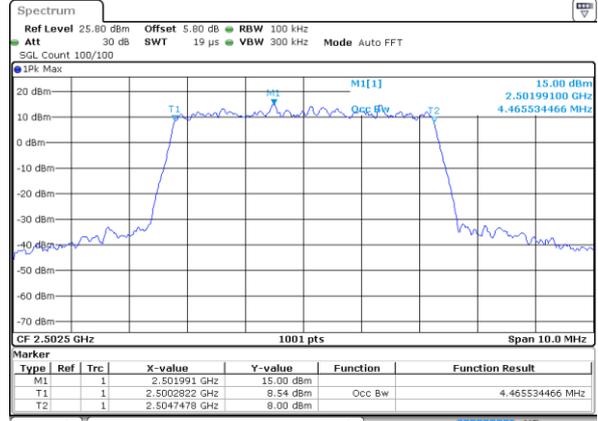
LTE Band 7

Lowest Channel / 5MHz / QPSK



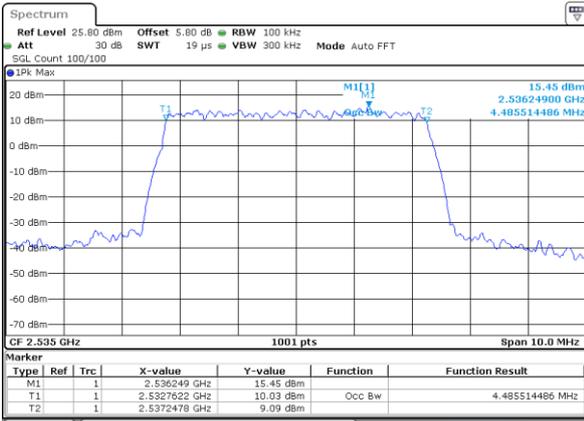
Date: 7 AUG 2020 14:59:29

Lowest Channel / 5MHz / 16QAM



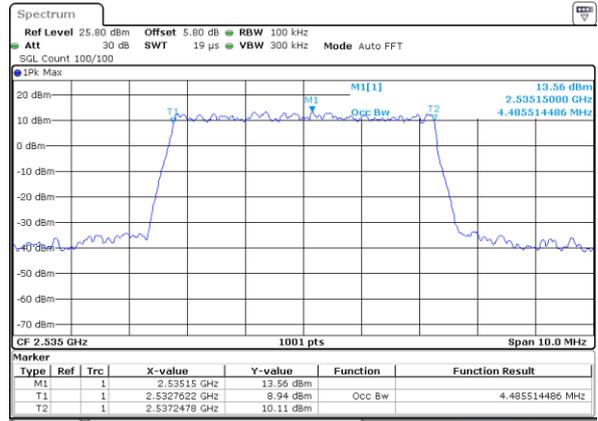
Date: 7 AUG 2020 14:59:49

Middle Channel / 5MHz / QPSK



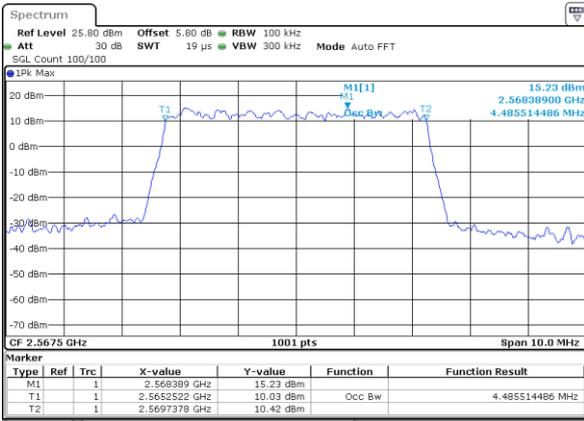
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Middle Channel / 5MHz / 16QAM



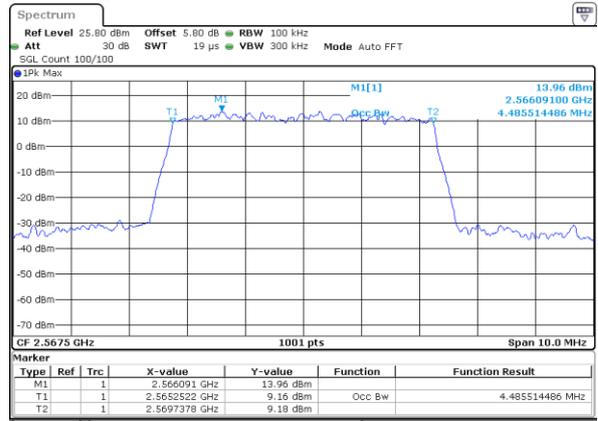
Date: 7 AUG 2020 15:00:09

Highest Channel / 5MHz / QPSK



Date: 7 AUG 2020 15:00:49

Highest Channel / 5MHz / 16QAM

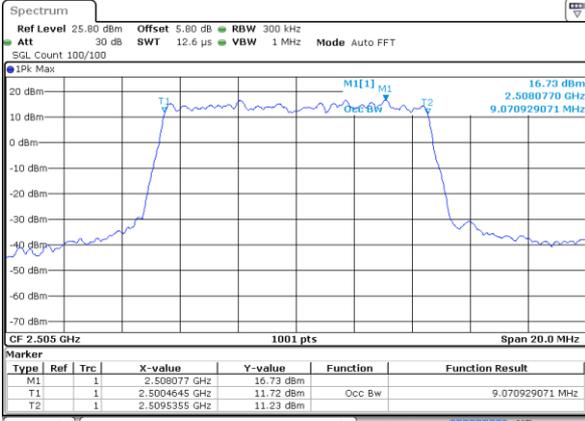


Date: 7 AUG 2020 15:01:09



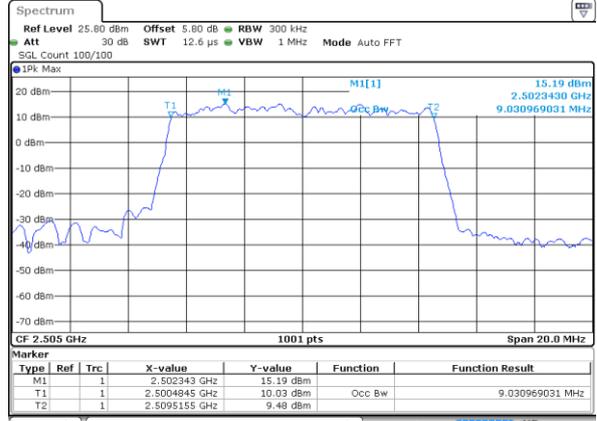
LTE Band 7

Lowest Channel / 10MHz / QPSK



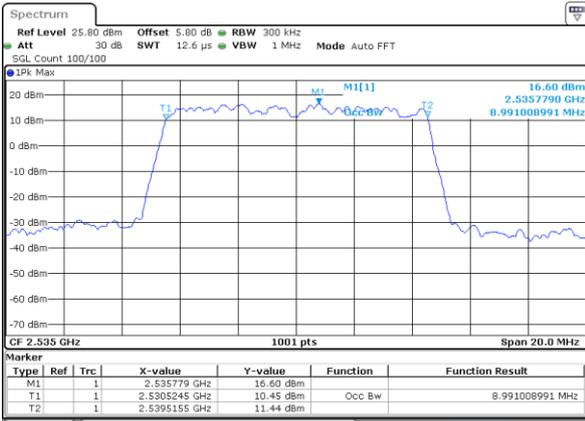
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Lowest Channel / 10MHz / 16QAM



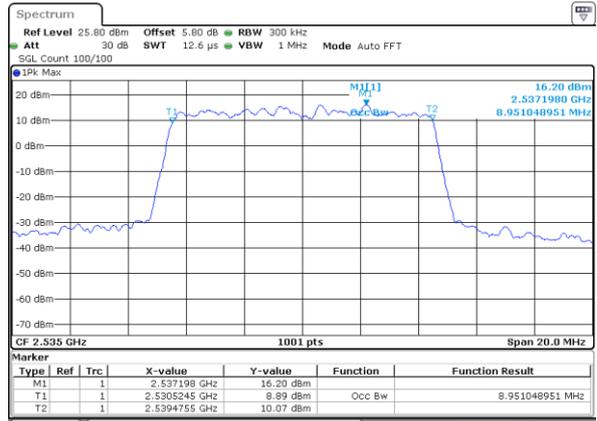
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Middle Channel / 10MHz / QPSK



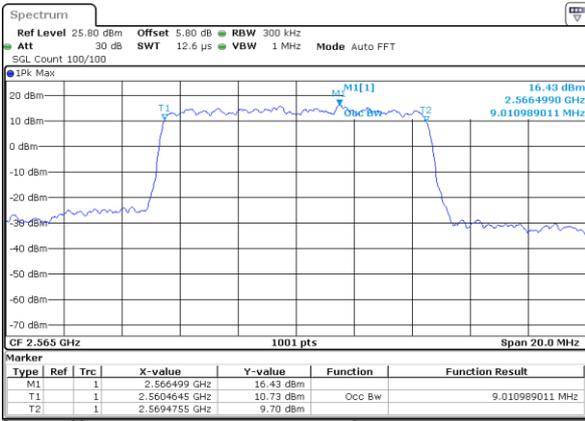
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Middle Channel / 10MHz / 16QAM



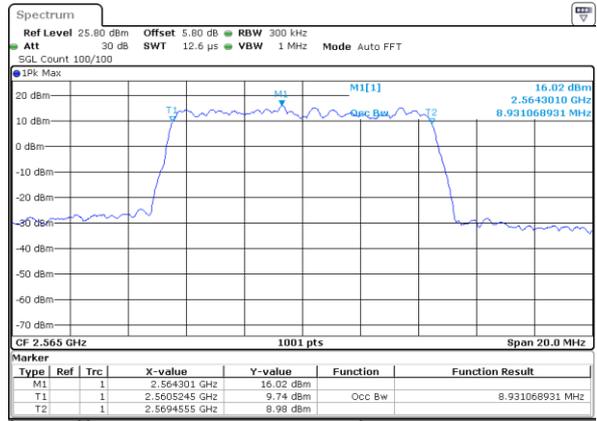
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Highest Channel / 10MHz / QPSK



Date: 7 AUG 2020 15:17:16

Highest Channel / 10MHz / 16QAM

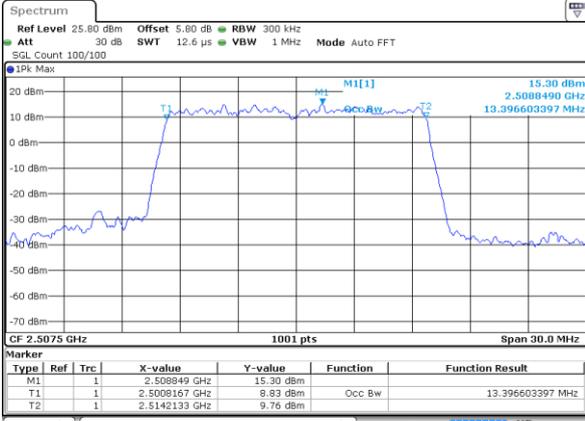


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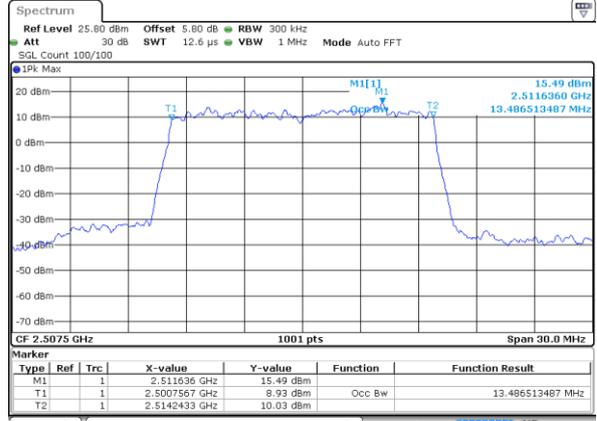
LTE Band 7

Lowest Channel / 15MHz / QPSK



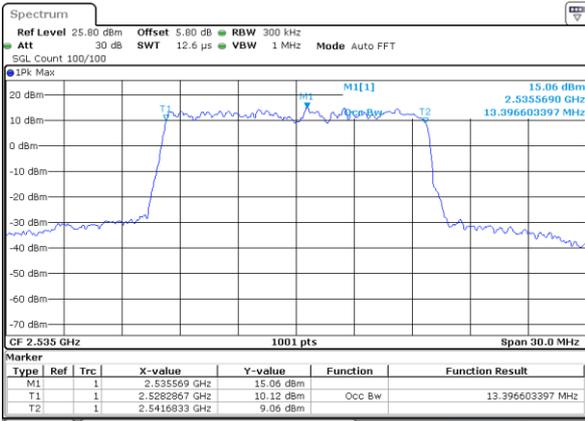
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Lowest Channel / 15MHz / 16QAM



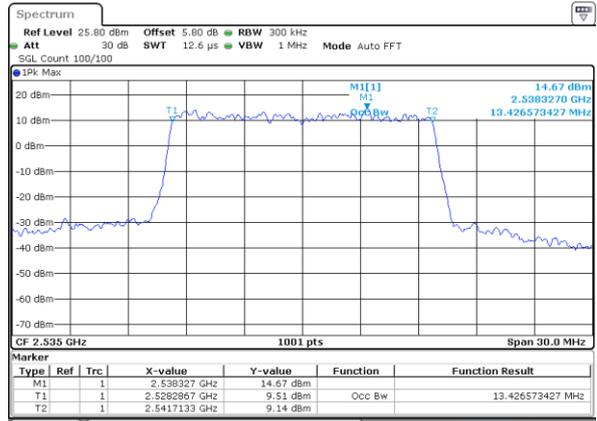
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Middle Channel / 15MHz / QPSK



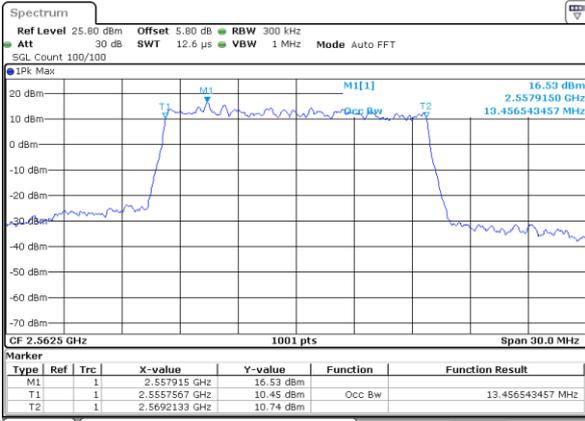
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Middle Channel / 15MHz / 16QAM



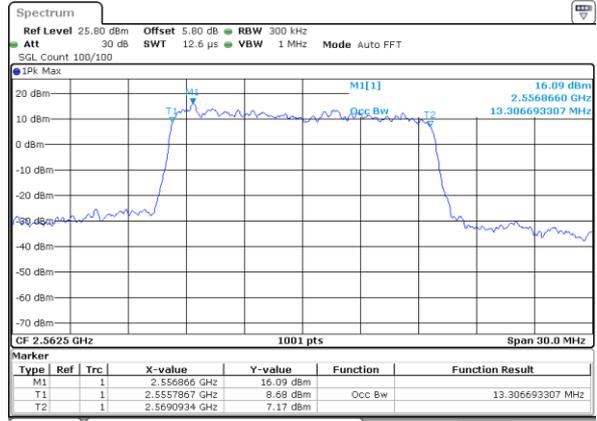
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Highest Channel / 15MHz / QPSK



Date: 7 AUG 2020 15:34:02

Highest Channel / 15MHz / 16QAM

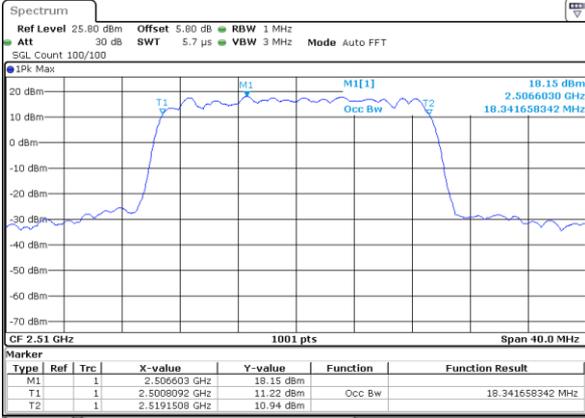


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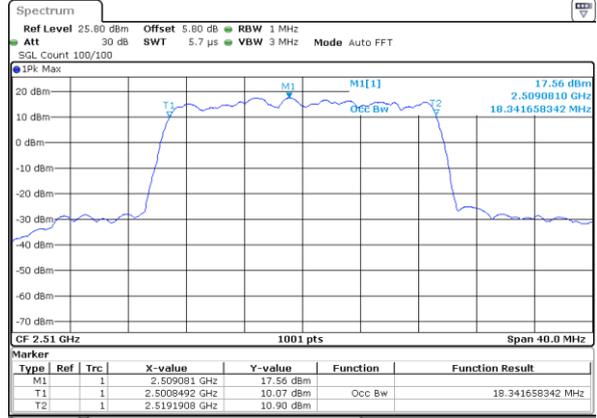
LTE Band 7

Lowest Channel / 20MHz / QPSK



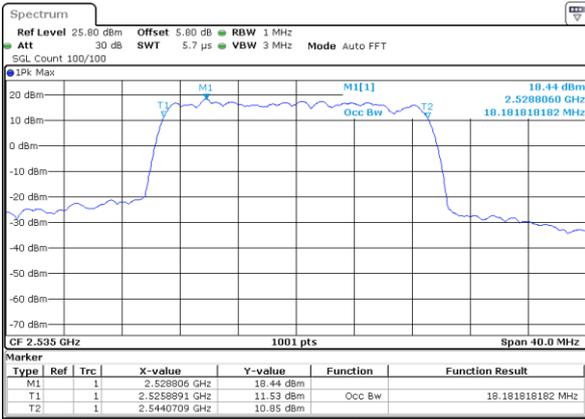
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Lowest Channel / 20MHz / 16QAM



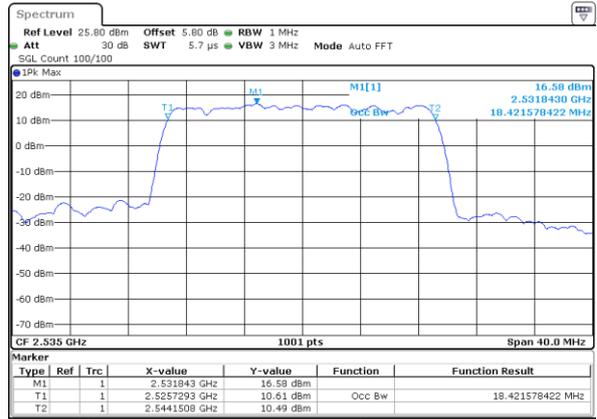
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Middle Channel / 20MHz / QPSK



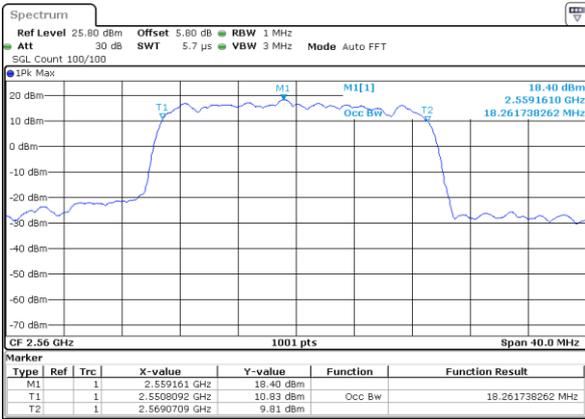
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Middle Channel / 20MHz / 16QAM



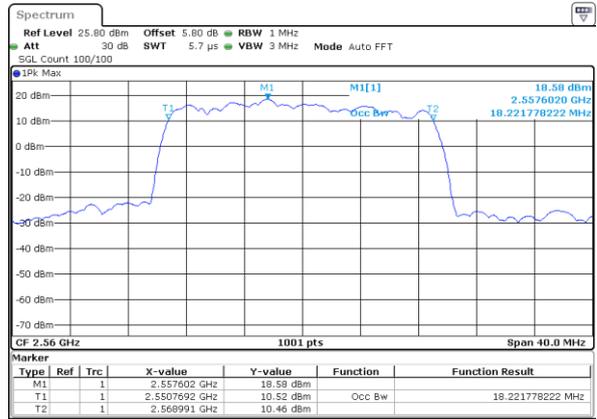
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Highest Channel / 20MHz / QPSK



Date: 7 AUG 2020 15:50:29

Highest Channel / 20MHz / 16QAM

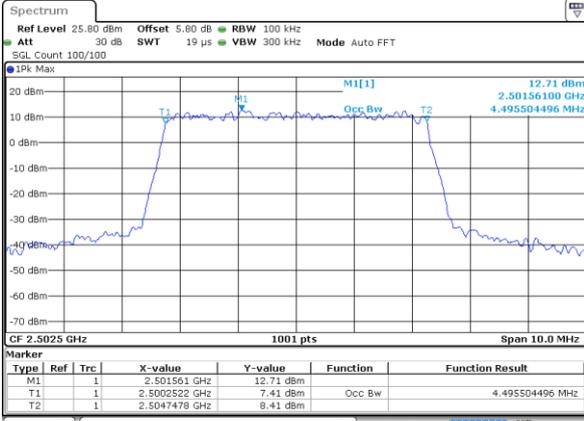


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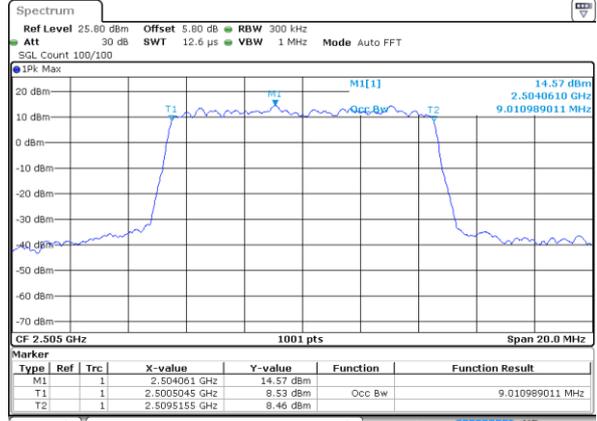
LTE Band 7

Lowest Channel / 5MHz / 64QAM



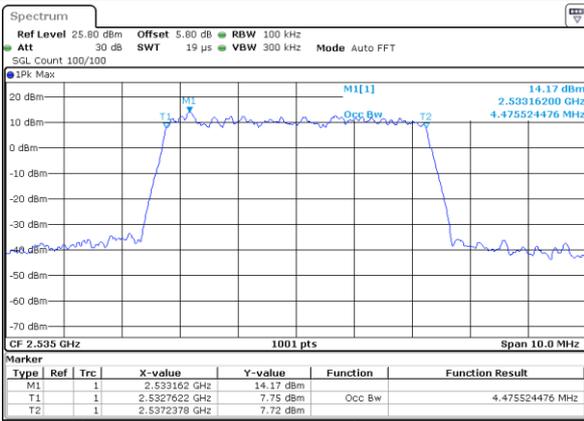
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Lowest Channel / 10MHz / 64QAM



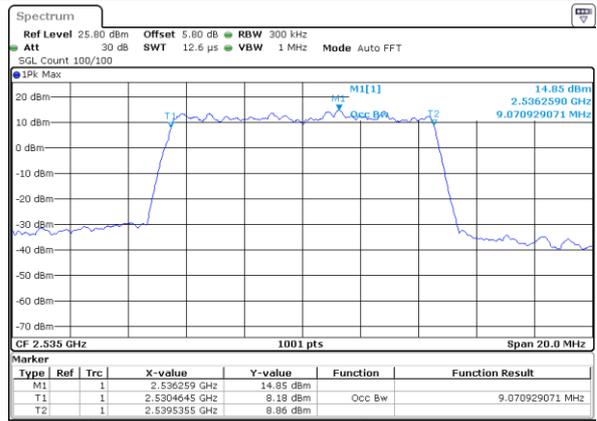
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Middle Channel / 5MHz / 64QAM



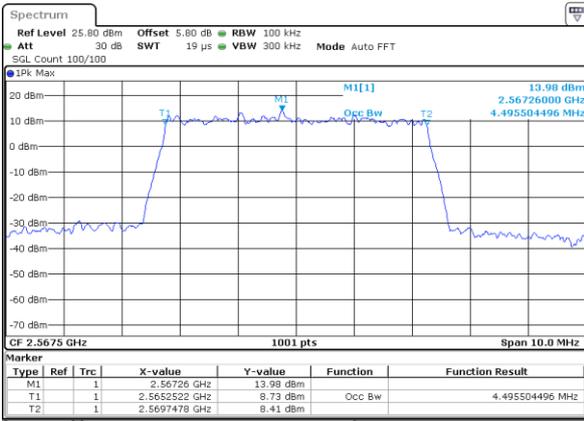
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Middle Channel / 10MHz / 64QAM



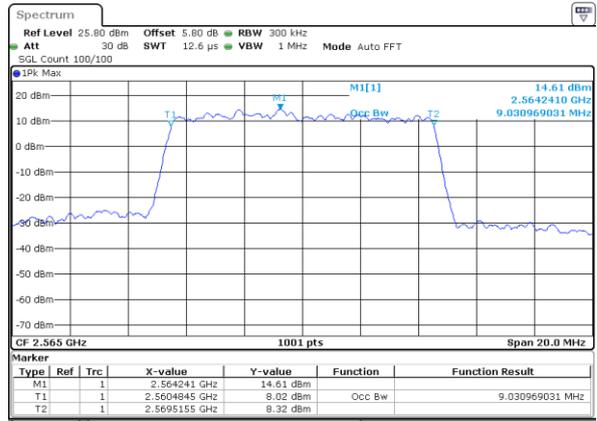
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Highest Channel / 5MHz / 64QAM



Date: 7 AUG 2020 16:05:37

Highest Channel / 10MHz / 64QAM

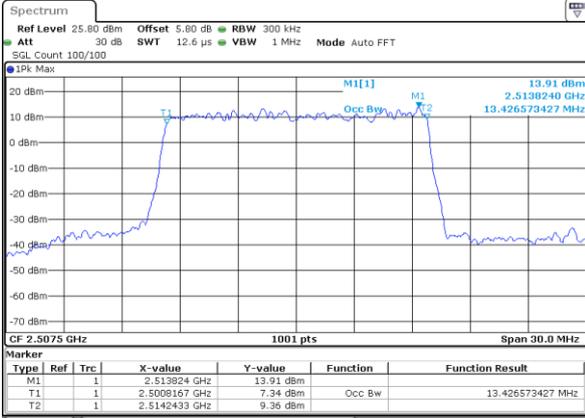


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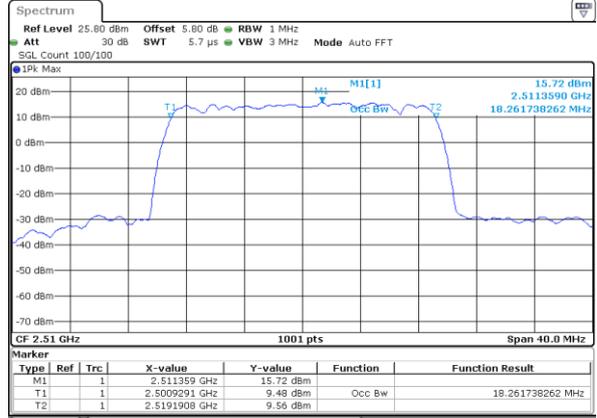
LTE Band 7

Lowest Channel / 15MHz / 64QAM



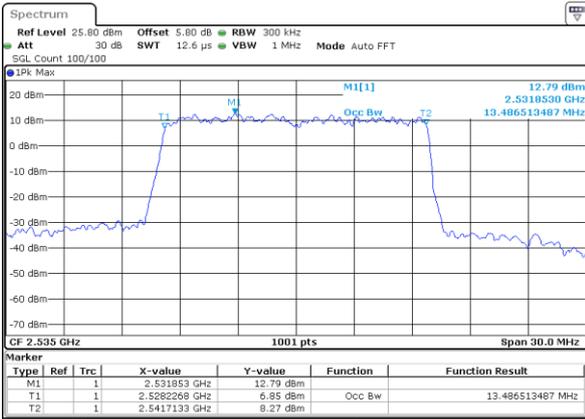
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Lowest Channel / 20MHz / 64QAM



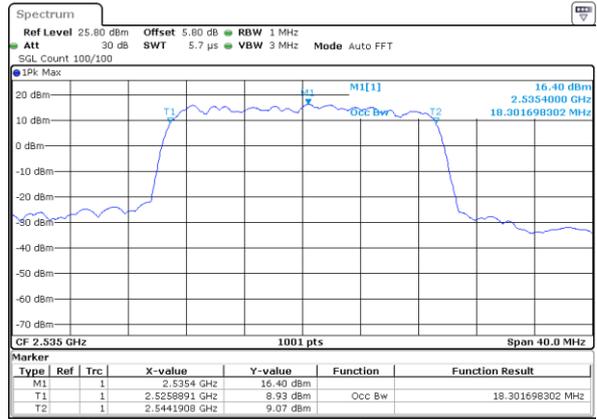
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Middle Channel / 15MHz / 64QAM



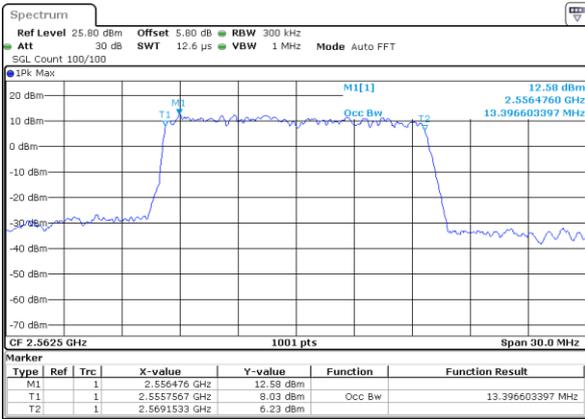
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Middle Channel / 20MHz / 64QAM



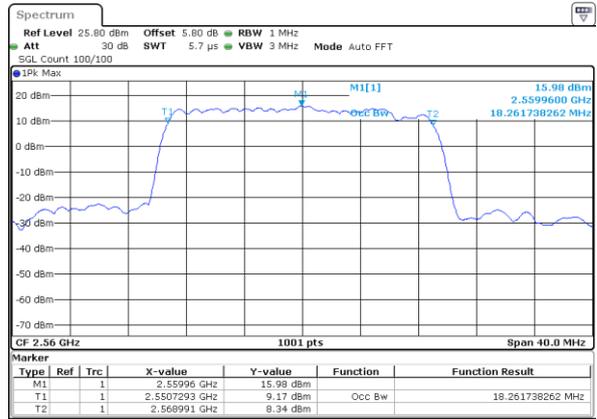
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Highest Channel / 15MHz / 64QAM



Date: 7 AUG 2020 16:22:04

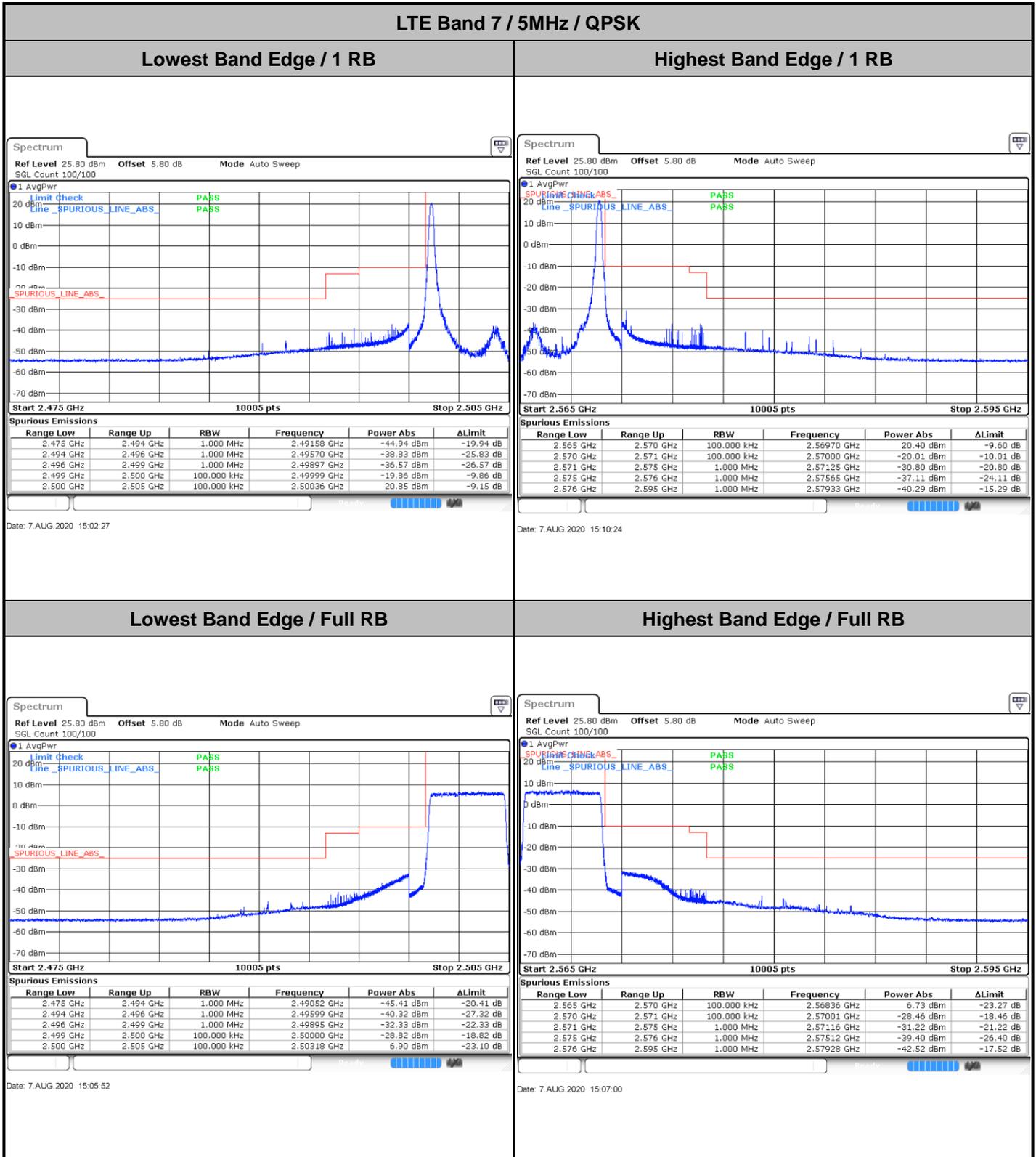
Highest Channel / 20MHz / 64QAM



Date: 7 AUG 2020 16:30:17



# Conducted Band Edge

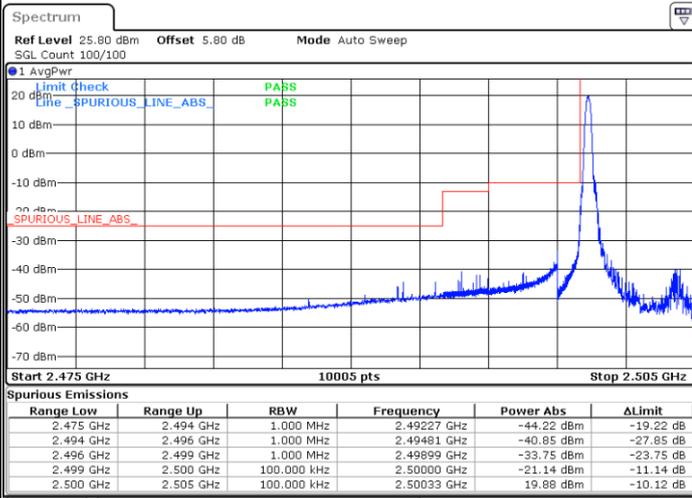




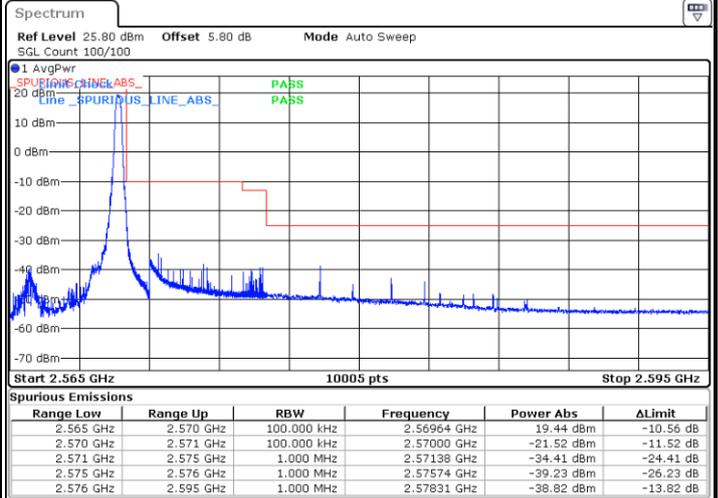
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



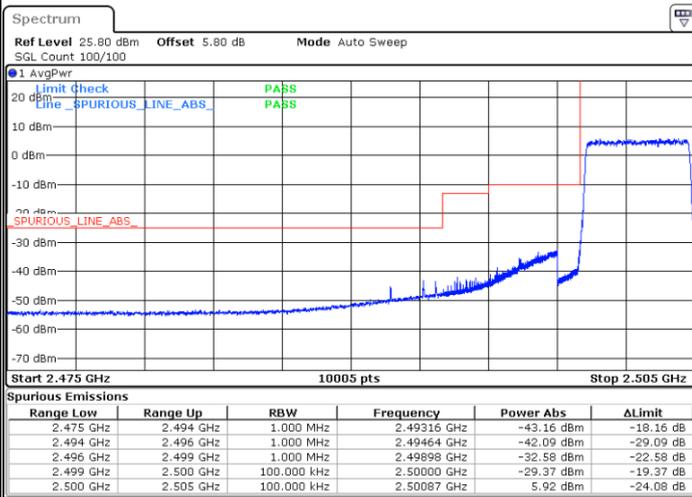
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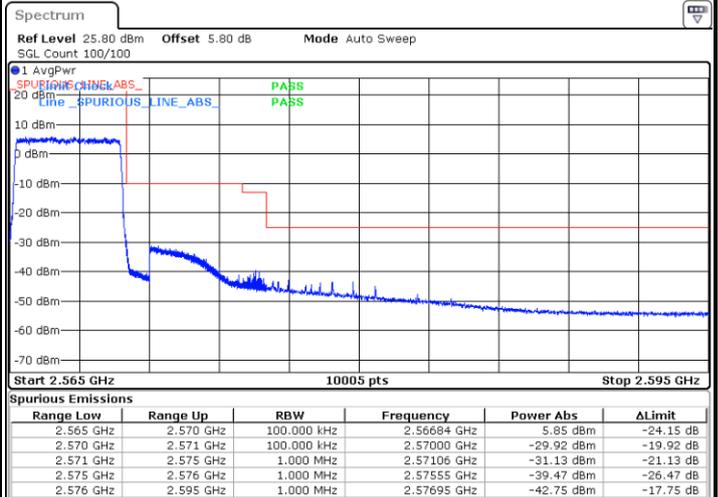
Date: 7 AUG 2020 15:09:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7 AUG 2020 15:04:44

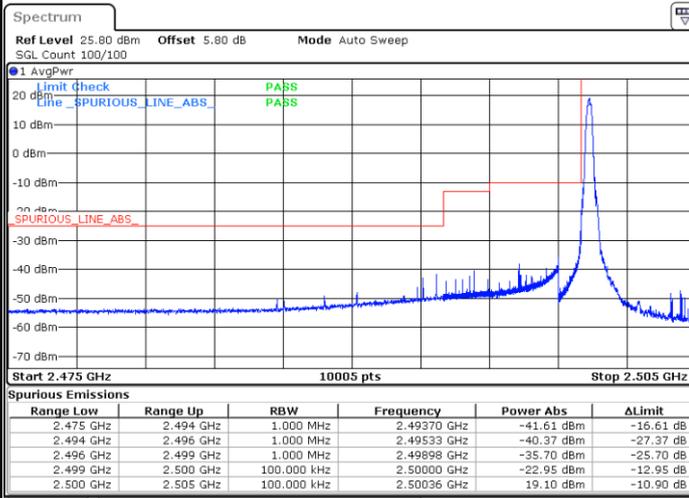


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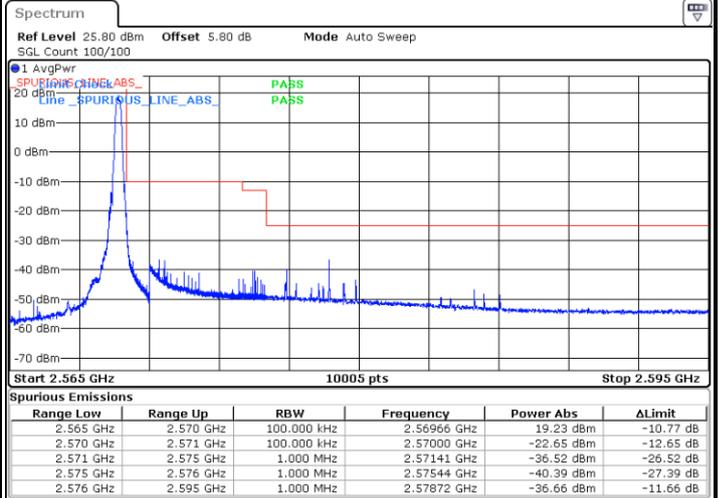
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



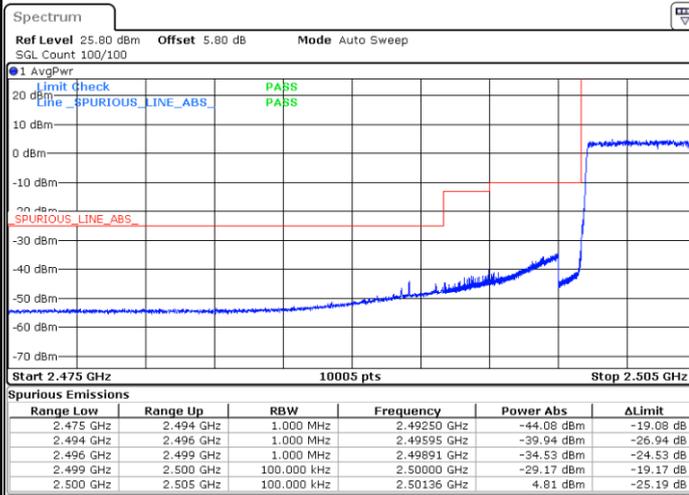
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Highest Band Edge / 1 RB



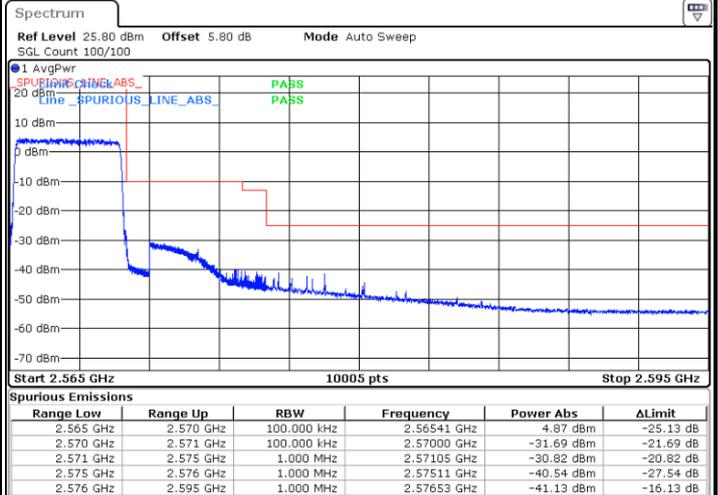
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Lowest Band Edge / Full RB



Date: 7.AUG.2020 16:11:05

Highest Band Edge / Full RB



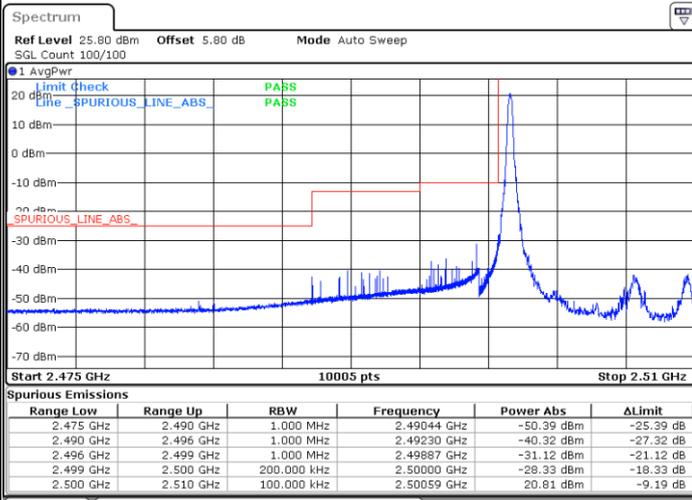
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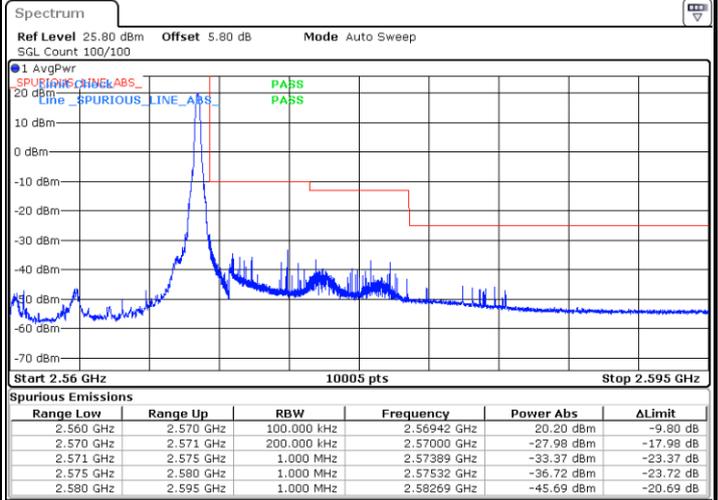
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



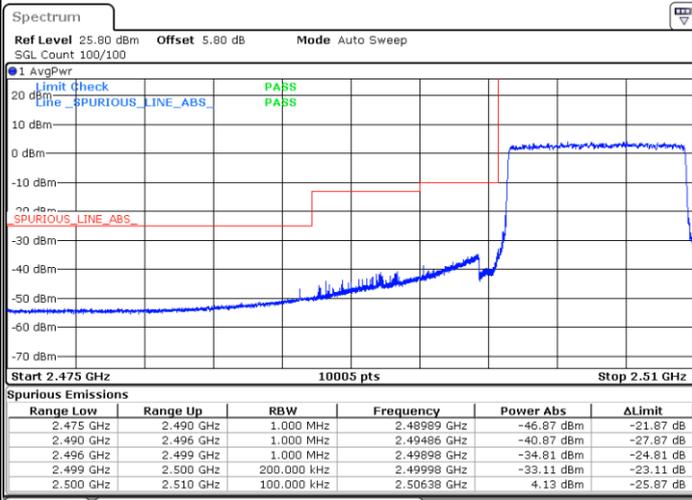
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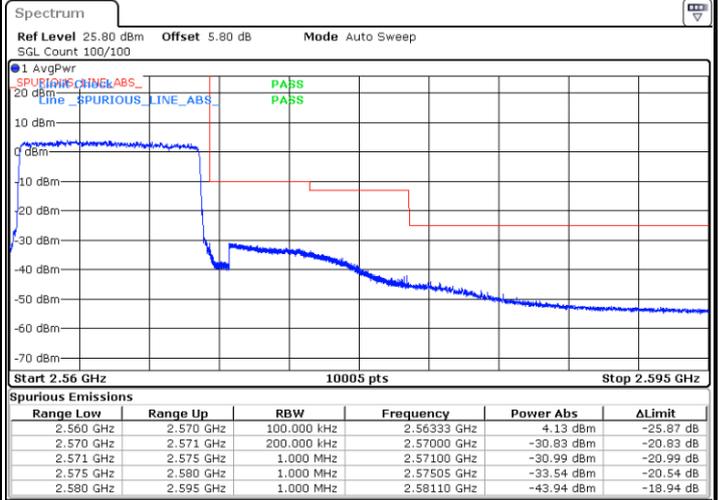
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Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.AUG.2020 15:22:18

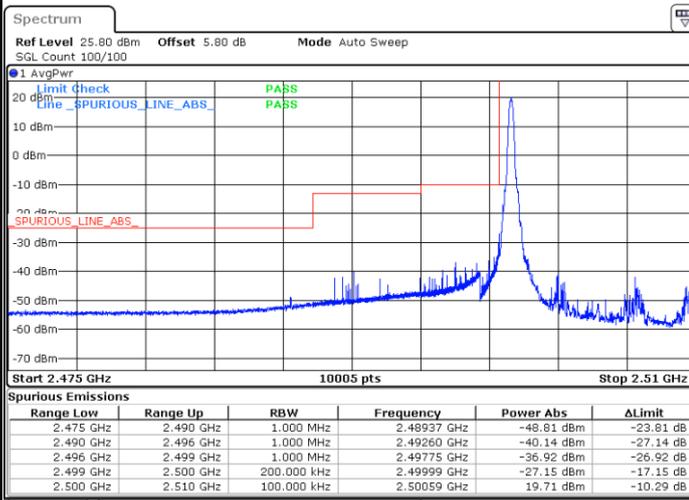


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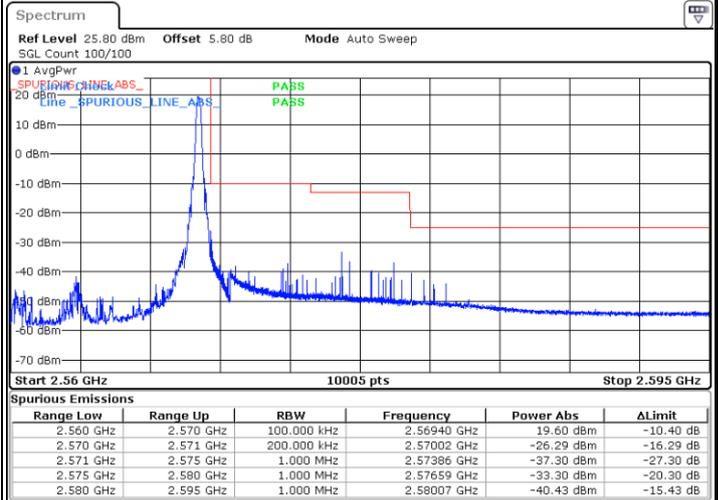
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



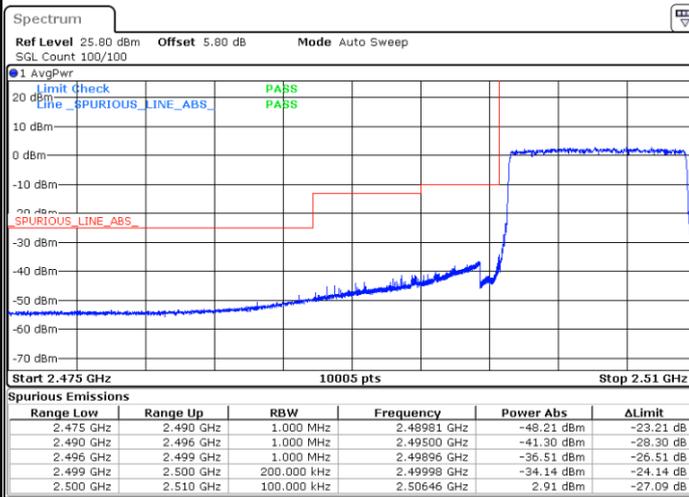
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Highest Band Edge / 1 RB



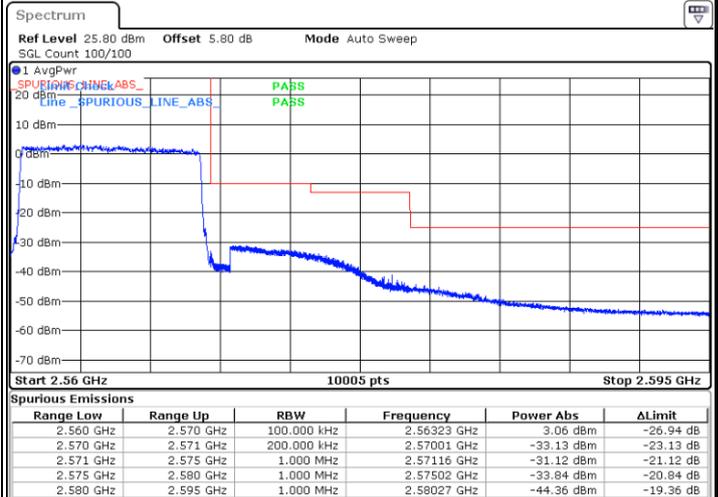
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Lowest Band Edge / Full RB



Date: 7.AUG.2020 15:21:10

Highest Band Edge / Full RB

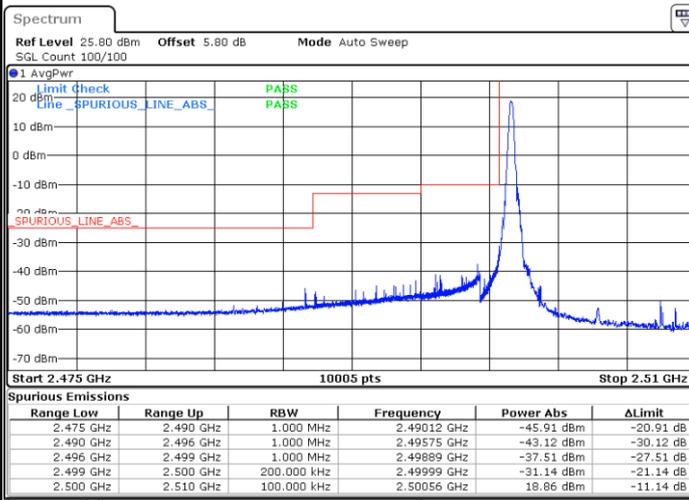


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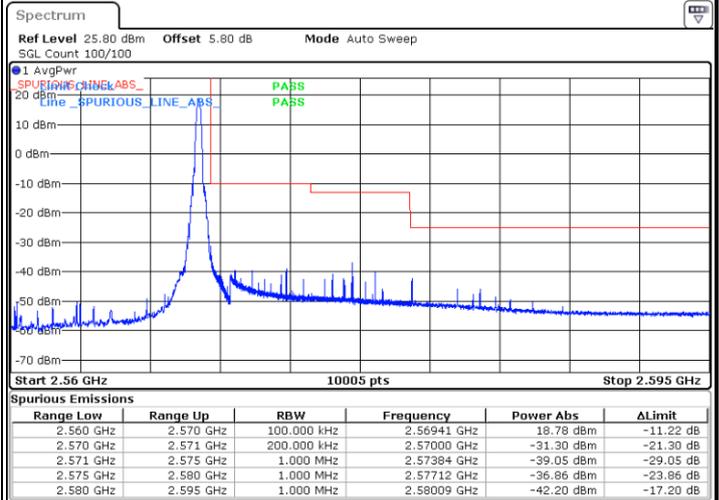
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



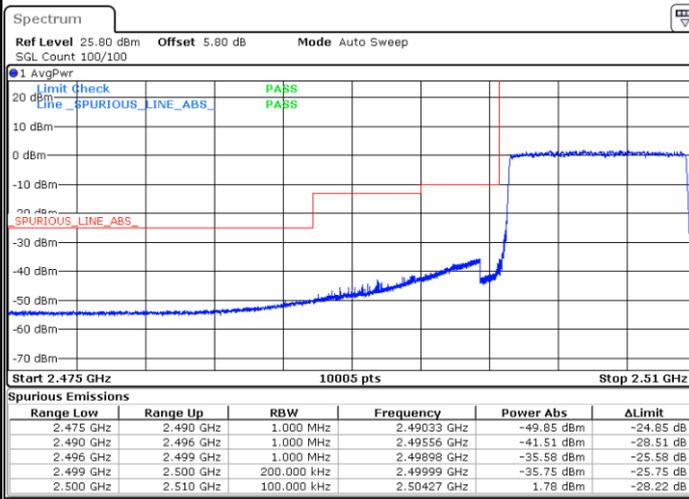
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Highest Band Edge / 1 RB



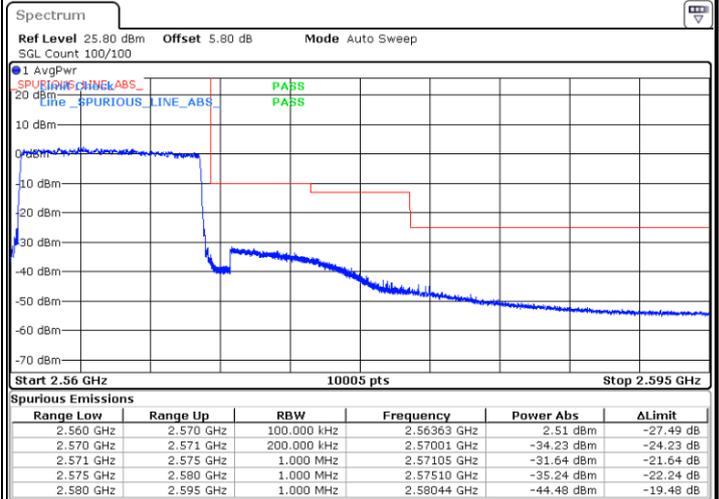
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Lowest Band Edge / Full RB



Date: 7.AUG.2020 16:19:18

Highest Band Edge / Full RB



Date: 7.AUG.2020 16:21:34