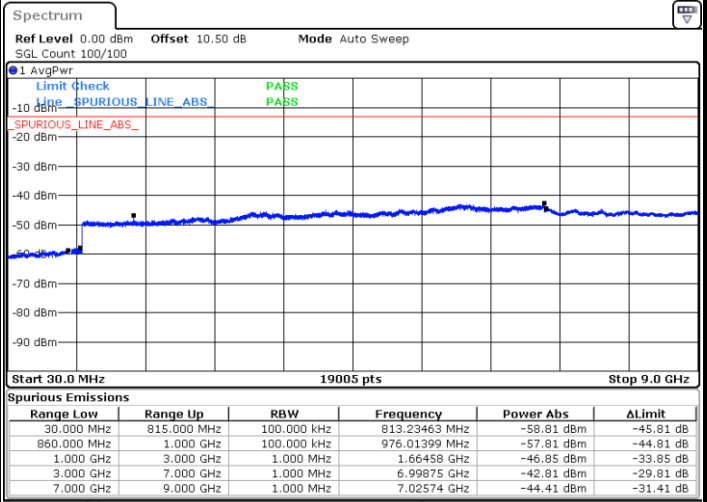
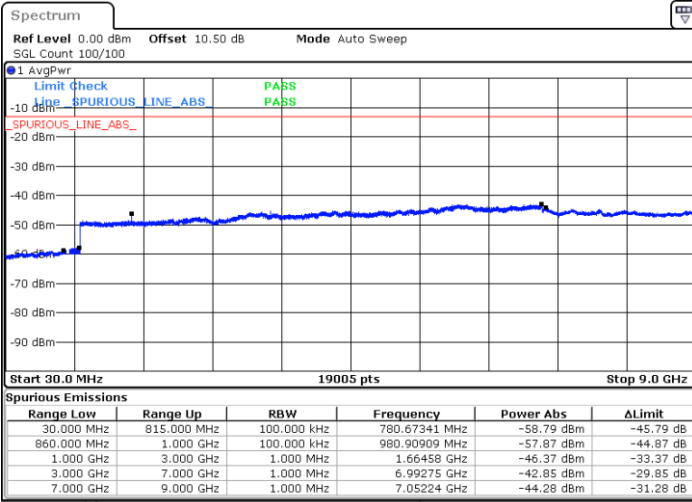




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

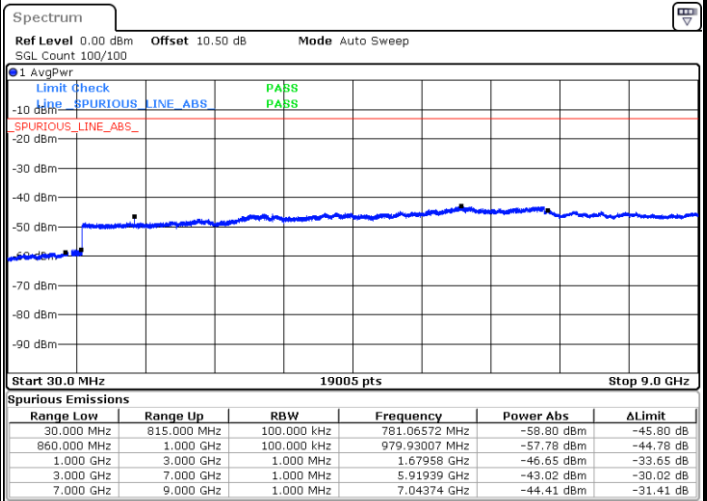
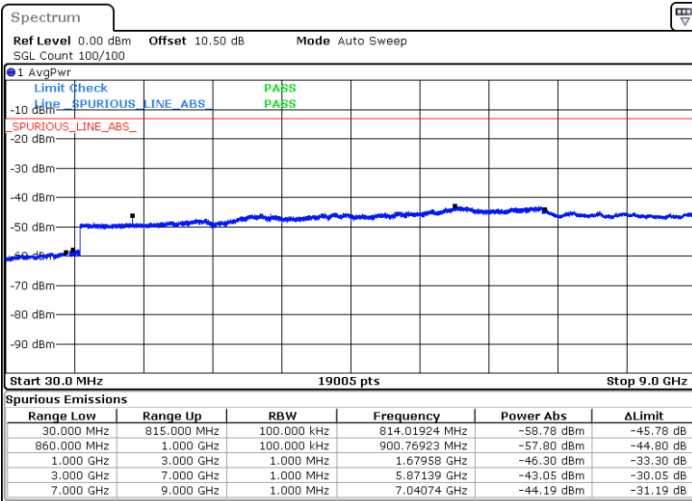


Date: 29.MAR.2020 18:28:32

Date: 29.MAR.2020 18:29:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 29.MAR.2020 18:37:42

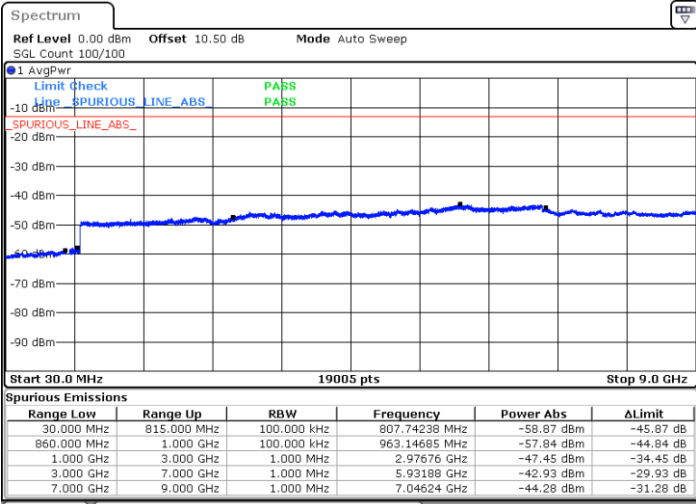
Date: 29.MAR.2020 18:38:33



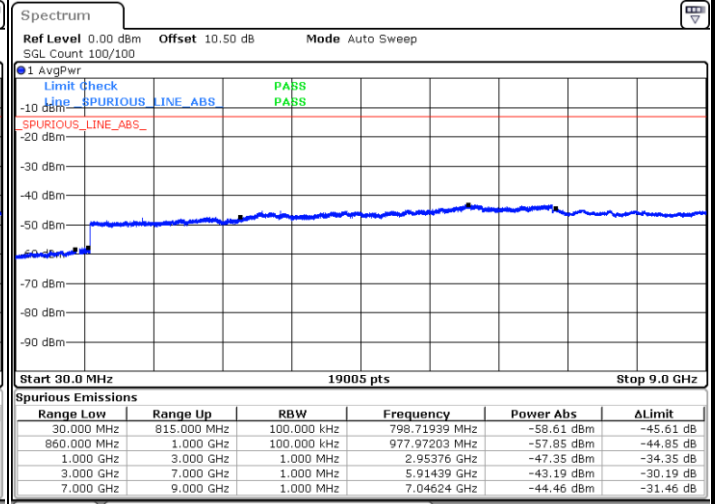
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

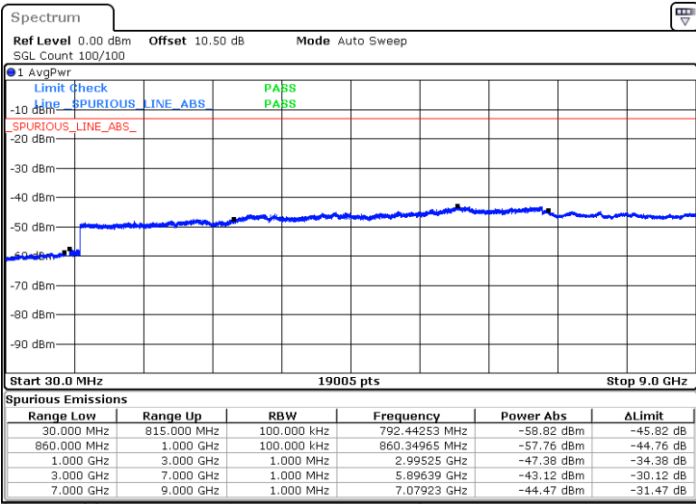


Date: 29.MAR.2020 17:10:17



Date: 29.MAR.2020 17:11:30

Highest Channel / 64QAM

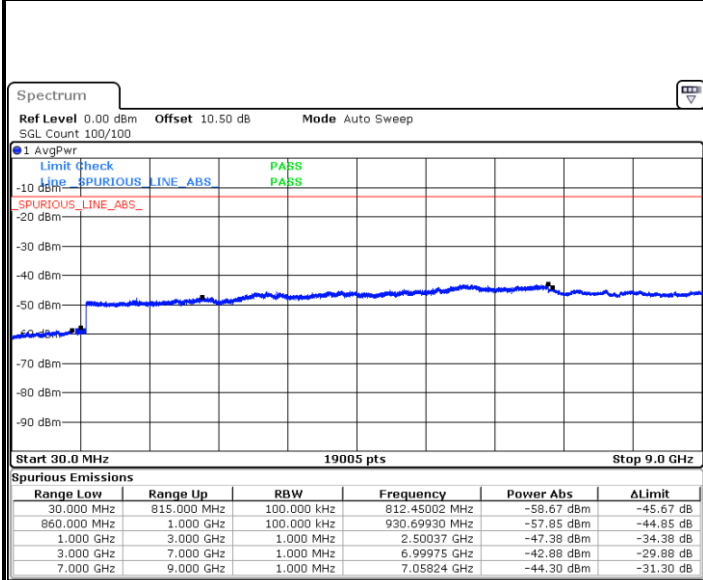


Date: 29.MAR.2020 17:16:05



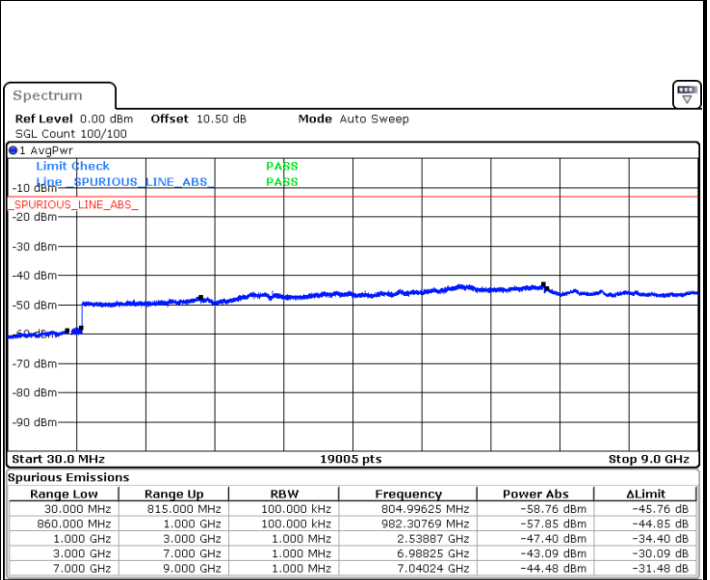
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



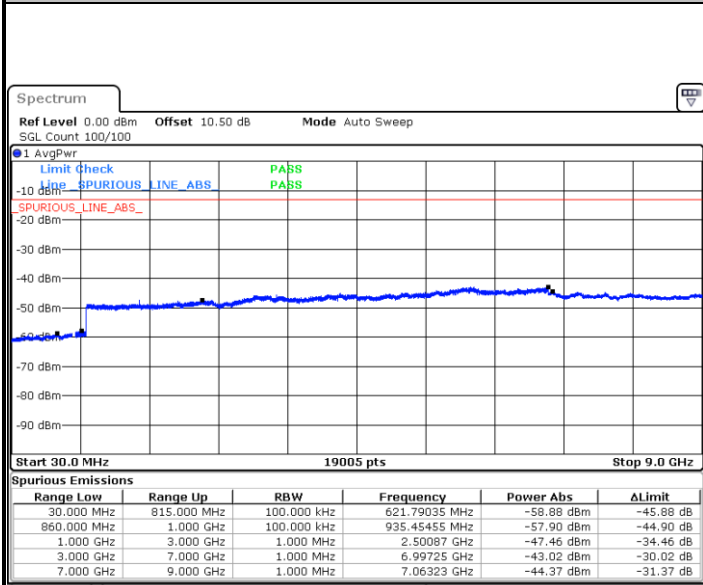
Date: 29.MAR.2020 17:41:30

Middle Channel / 64QAM



Date: 29.MAR.2020 17:42:44

Highest Channel / 64QAM

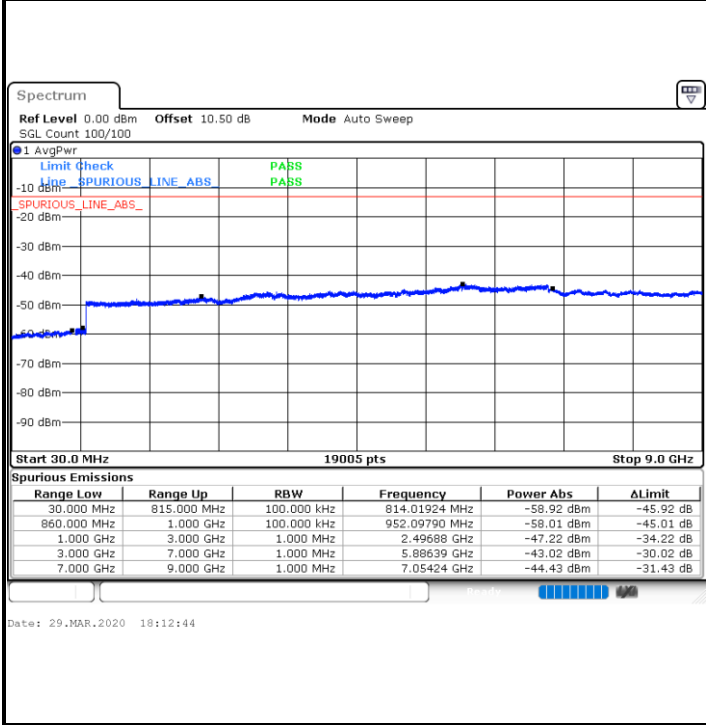


Date: 29.MAR.2020 17:47:19

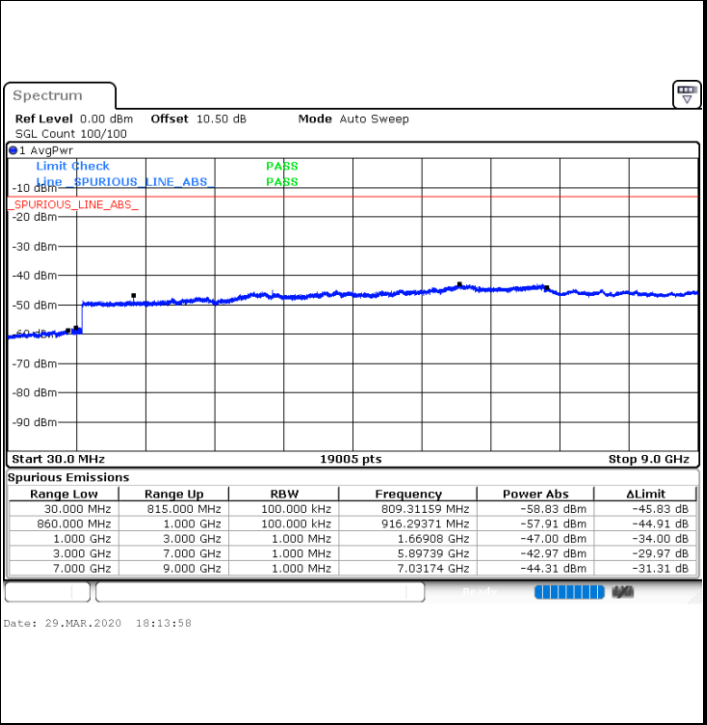


LTE Band 5 / 5MHz

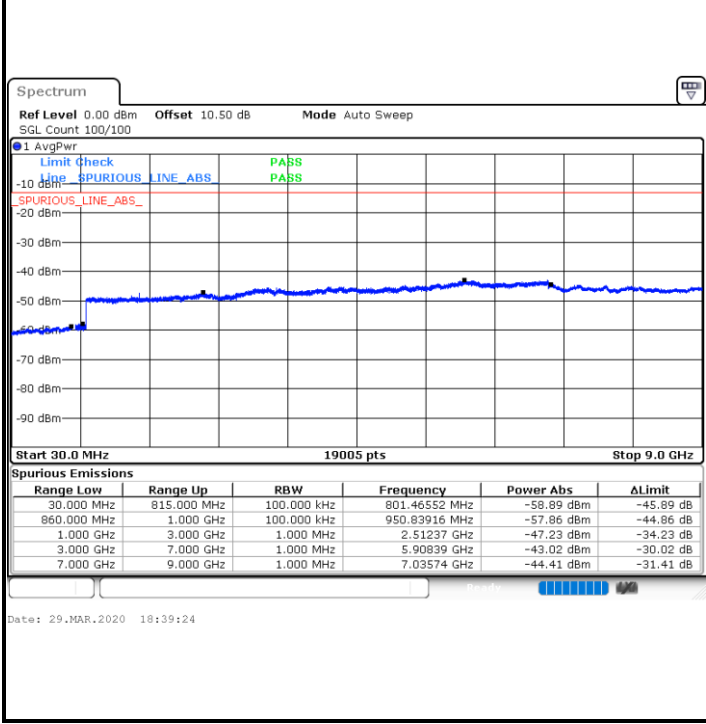
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



Highest Channel / 64QAM

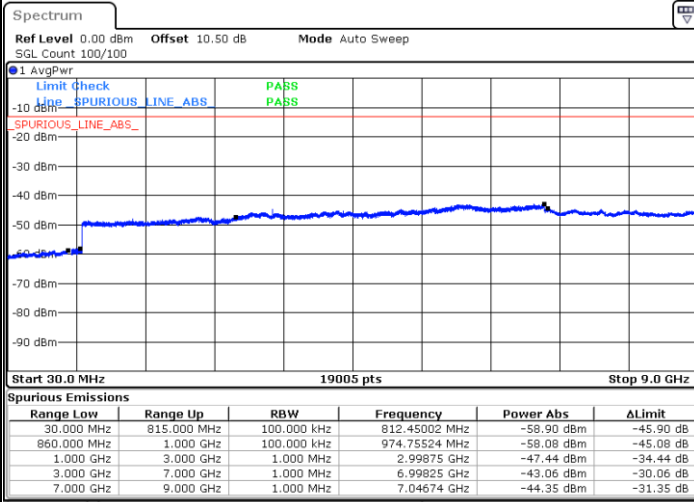




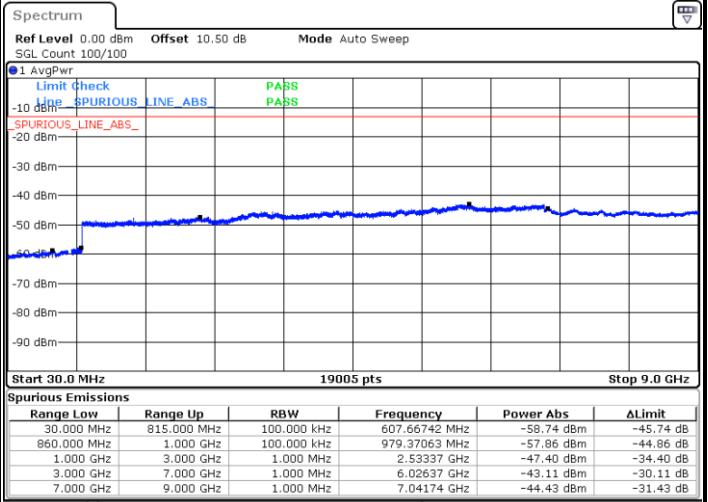
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

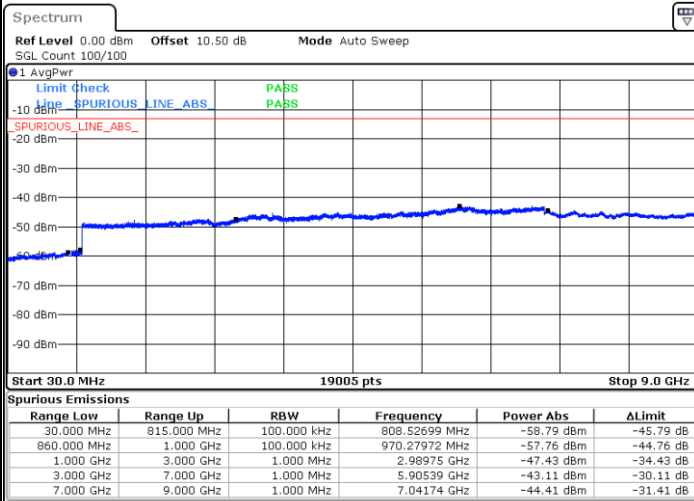


Date: 29.MAR.2020 18:44:00



Date: 29.MAR.2020 18:45:14

Highest Channel / 64QAM



Date: 29.MAR.2020 18:49:49



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	0.0075	PASS
40	Normal Voltage	0.0055	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0061	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

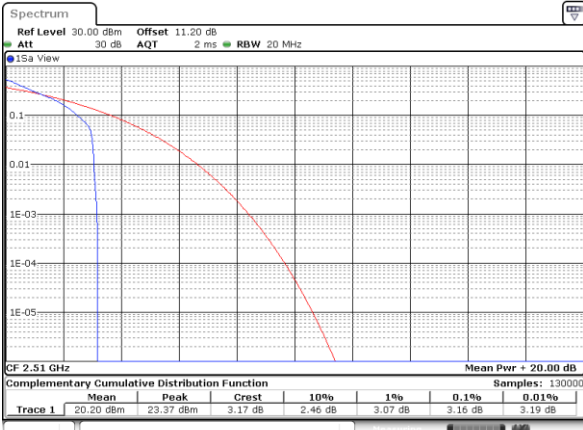
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.16	4.03	4.41	5.36	PASS
Middle CH	2.81	4.03	4.12	5.19	
Highest CH	3.04	3.91	4.20	5.16	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.30	6.00	-	-	PASS
Middle CH	5.07	5.88	-	-	
Highest CH	5.22	5.80	-	-	



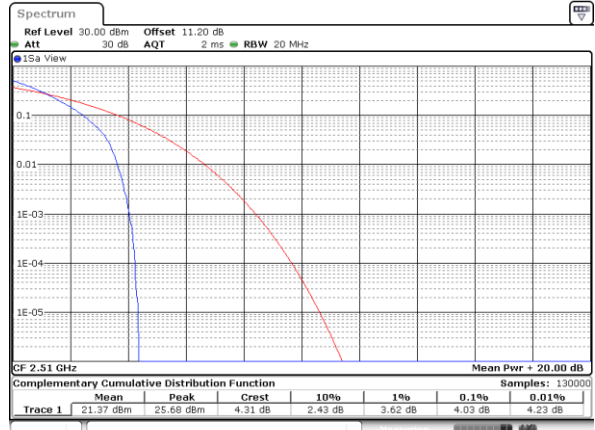
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



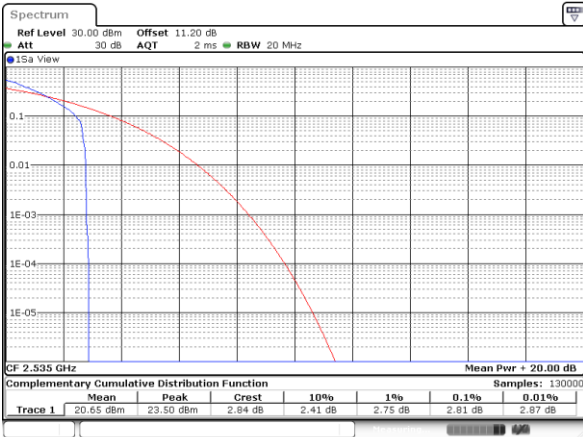
Date: 28.MAR.2020 13:41:30

Lowest Channel / Full RB



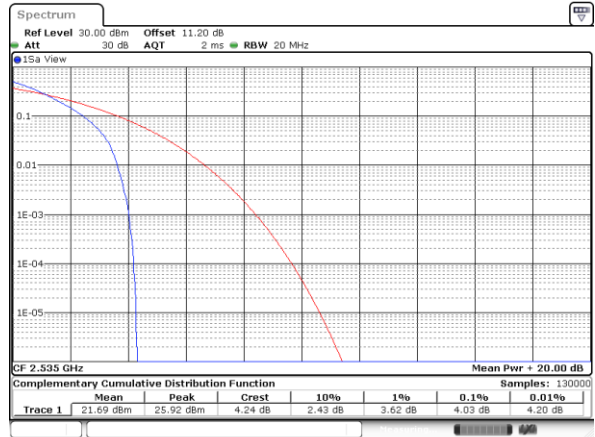
Date: 28.MAR.2020 13:41:42

Middle Channel / 1RB



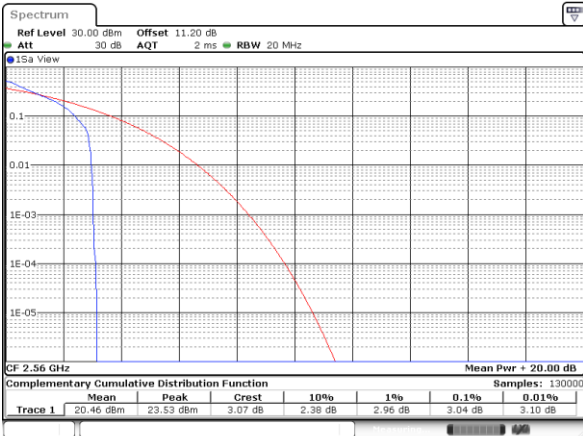
Date: 28.MAR.2020 13:41:53

Middle Channel / Full RB



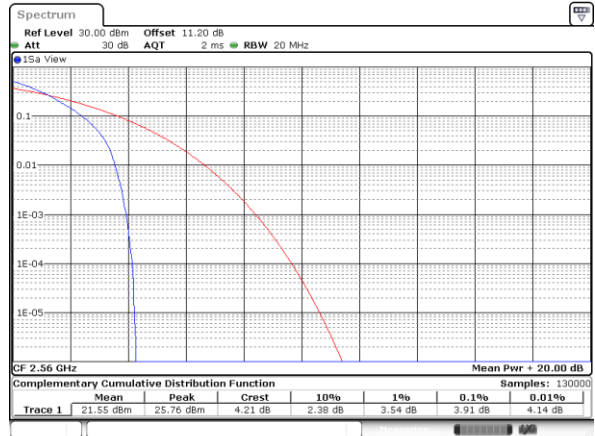
Date: 28.MAR.2020 13:42:04

Highest Channel / 1RB



Date: 28.MAR.2020 13:42:24

Highest Channel / Full RB

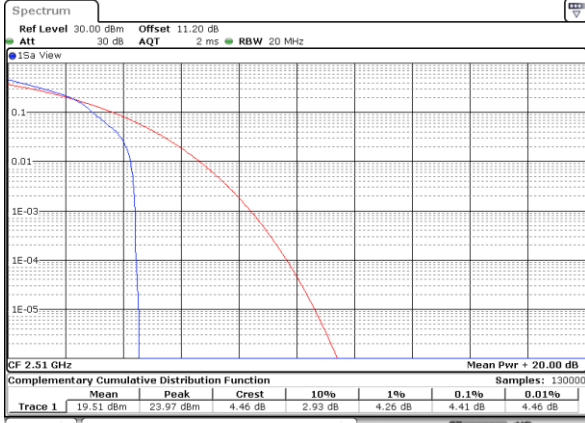


Date: 28.MAR.2020 13:42:36



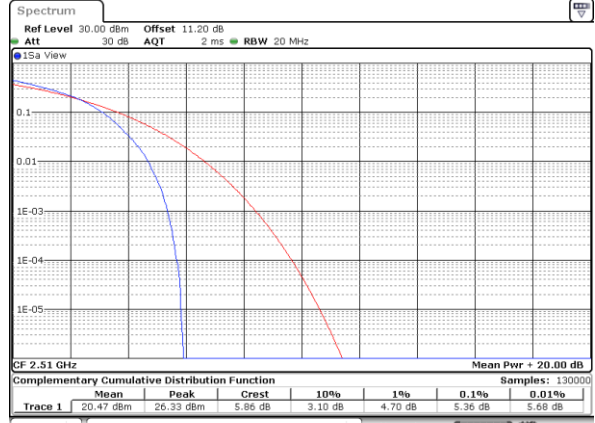
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



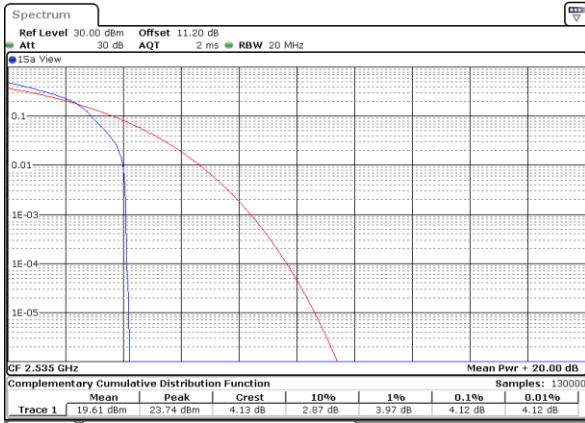
Date: 28.MAR.2020 13:40:20

Lowest Channel / Full RB



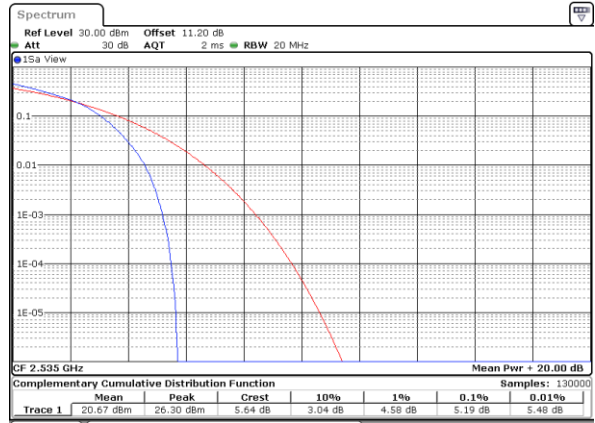
Date: 28.MAR.2020 13:40:35

Middle Channel / 1RB



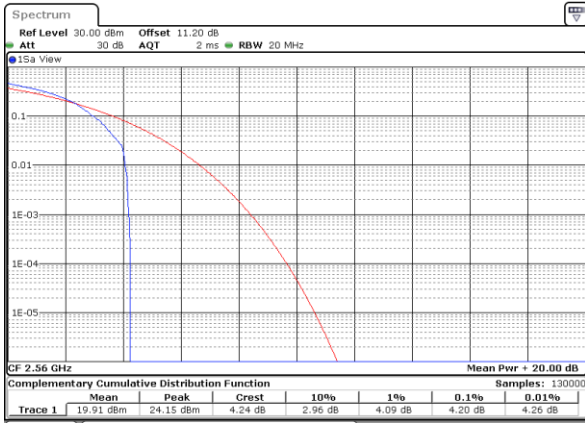
Date: 28.MAR.2020 13:40:47

Middle Channel / Full RB



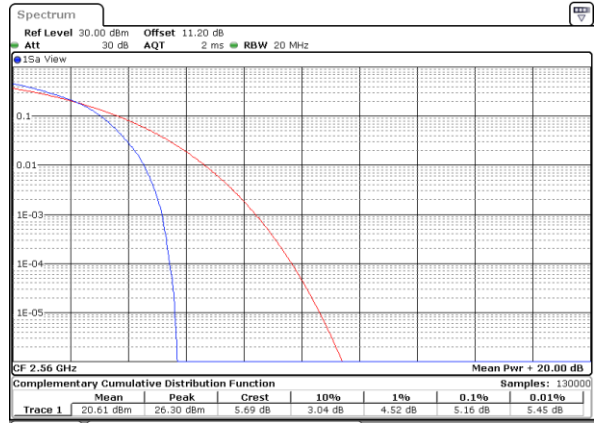
Date: 28.MAR.2020 13:40:57

Highest Channel / 1RB



Date: 28.MAR.2020 13:41:08

Highest Channel / Full RB

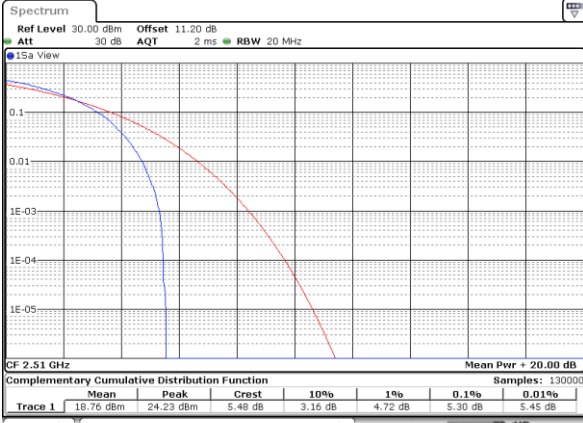


Date: 28.MAR.2020 13:41:19



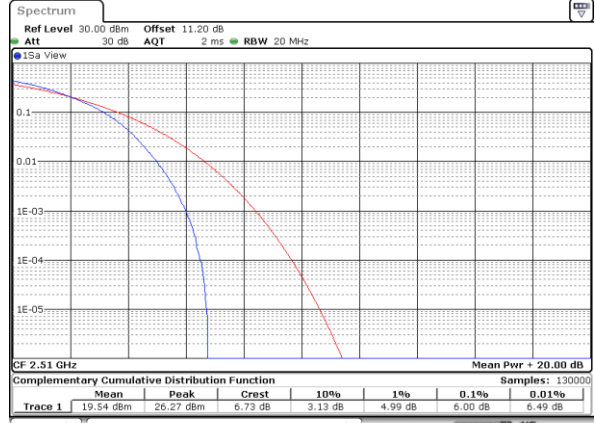
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



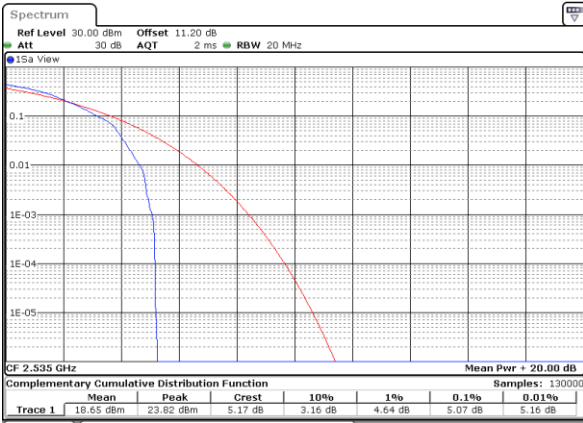
Date: 28.MAR.2020 13:42:48

Lowest Channel / Full RB



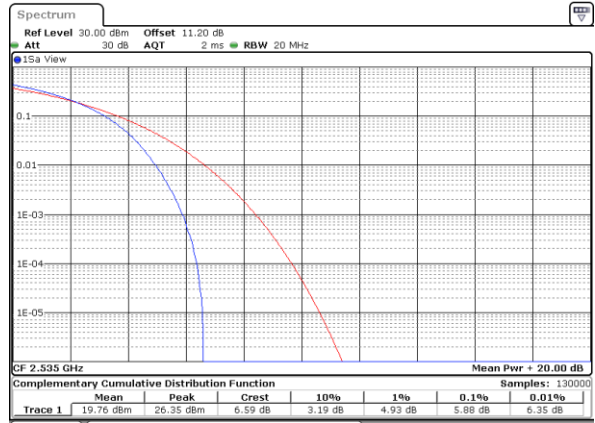
Date: 28.MAR.2020 13:42:59

Middle Channel / 1RB



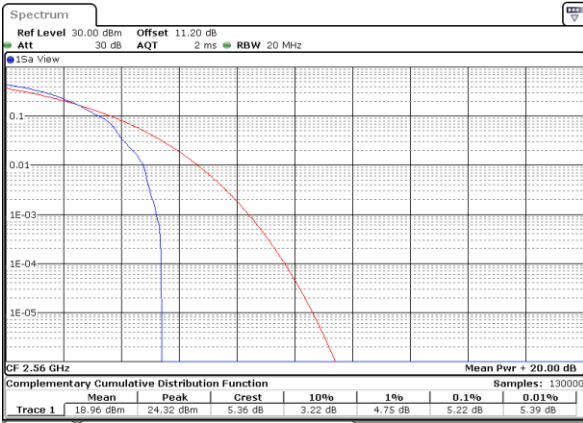
Date: 28.MAR.2020 13:43:10

Middle Channel / Full RB



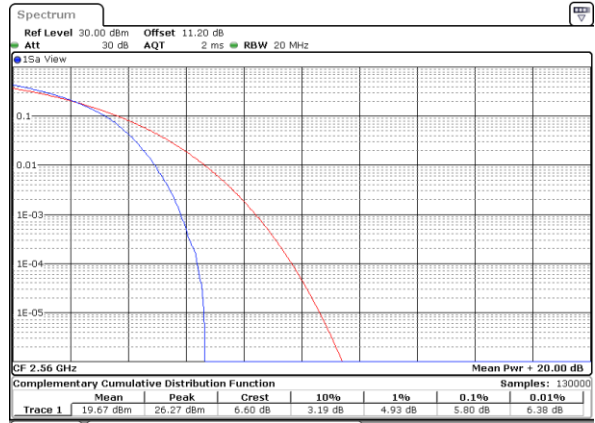
Date: 28.MAR.2020 13:43:20

Highest Channel / 1RB



Date: 28.MAR.2020 13:43:31

Highest Channel / Full RB



Date: 28.MAR.2020 13:43:42



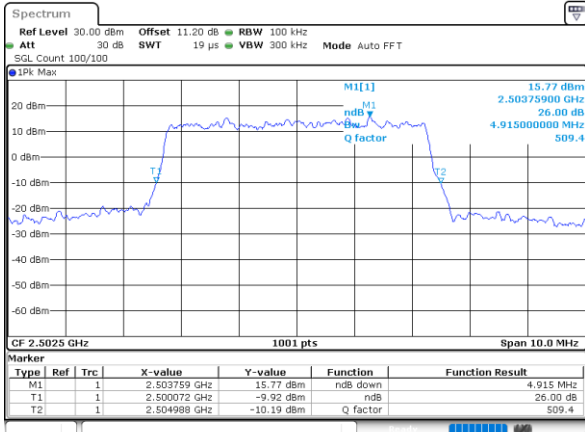
26dB Bandwidth

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	-	-	-	-	4.92	4.91	9.89	9.79	14.27	14.57	18.78	18.78
Middle CH	-	-	-	-	4.95	4.91	9.83	9.79	14.30	14.54	18.90	18.66
Highest CH	-	-	-	-	4.93	4.88	9.89	9.85	14.27	14.42	18.78	18.98
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.94	-	9.71	-	14.33	-	18.86	-
Middle CH	-	-	-	-	4.91	-	10.03	-	14.45	-	19.14	-
Highest CH	-	-	-	-	4.84	-	9.73	-	14.57	-	19.30	-



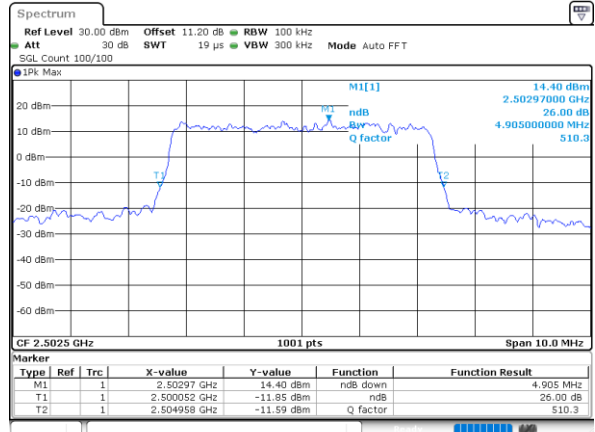
LTE Band 7

Lowest Channel / 5MHz / QPSK



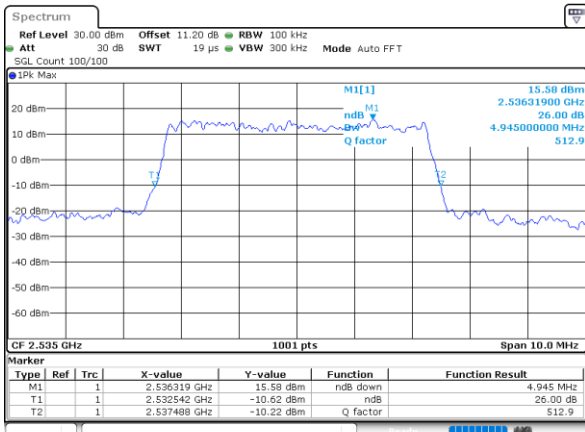
Date: 28_MAR_2020 12:07:56

Lowest Channel / 5MHz / 16QAM



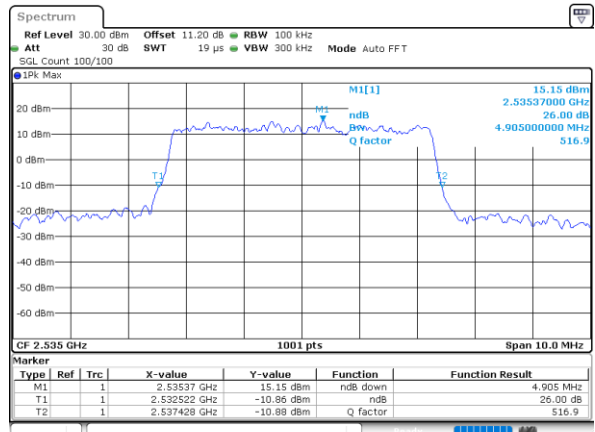
Date: 28_MAR_2020 12:08:08

Middle Channel / 5MHz / QPSK



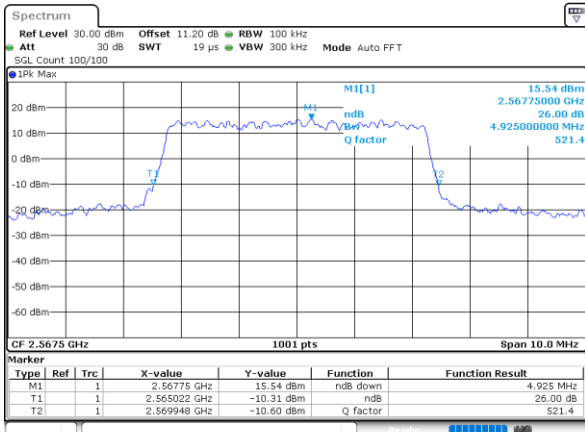
Date: 28_MAR_2020 12:14:27

Middle Channel / 5MHz / 16QAM



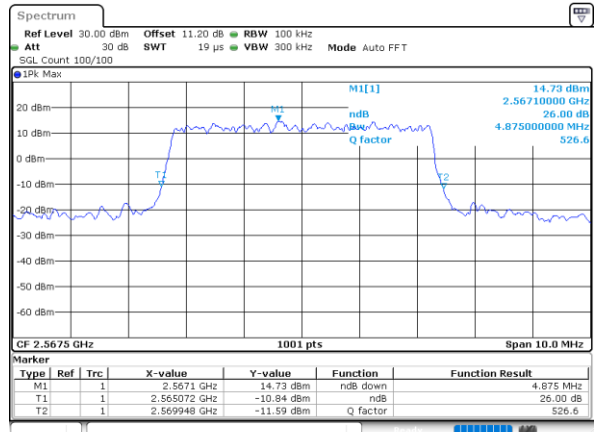
Date: 28_MAR_2020 12:14:39

Highest Channel / 5MHz / QPSK



Date: 28_MAR_2020 12:16:53

Highest Channel / 5MHz / 16QAM

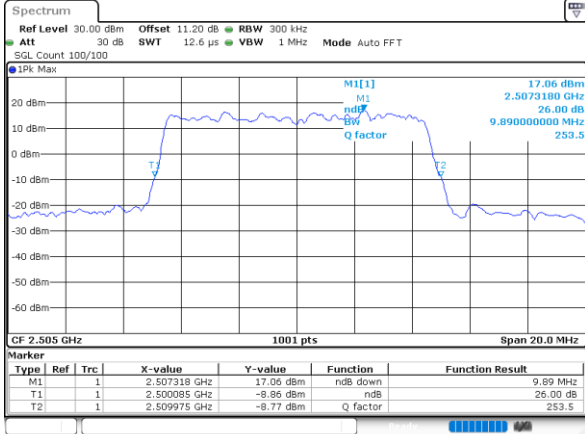


Date: 28_MAR_2020 12:17:06



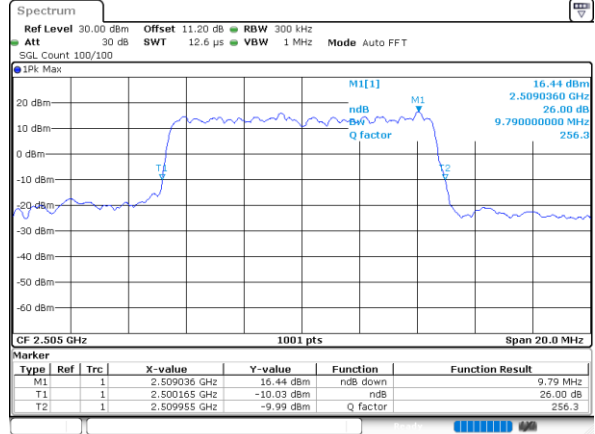
LTE Band 7

Lowest Channel / 10MHz / QPSK



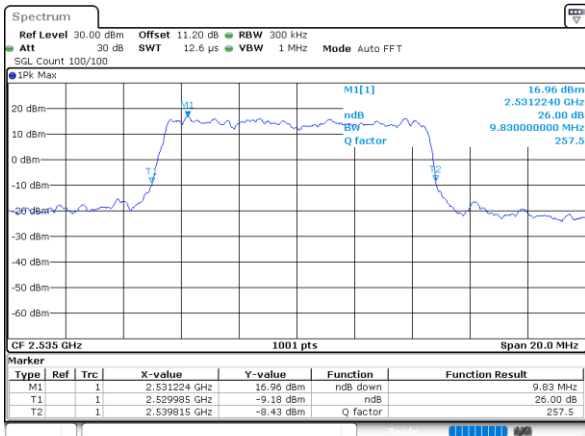
Date: 28_MAR_2020 12:31:09

Lowest Channel / 10MHz / 16QAM



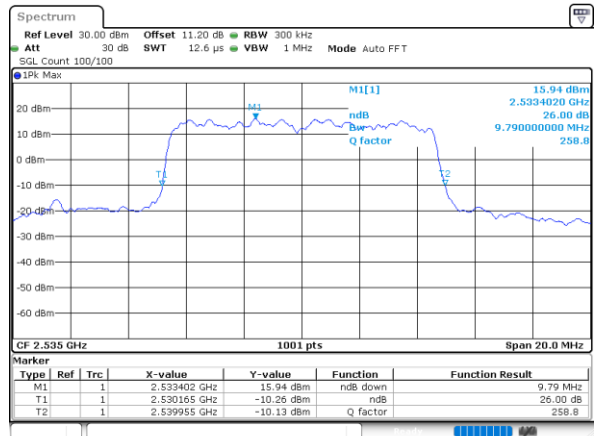
Date: 28_MAR_2020 12:31:21

Middle Channel / 10MHz / QPSK



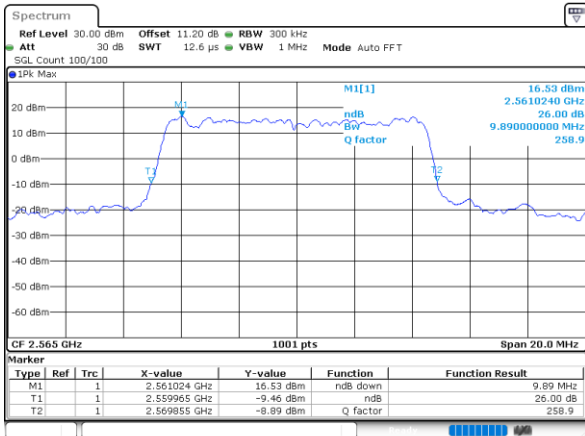
Date: 28_MAR_2020 12:37:39

Middle Channel / 10MHz / 16QAM



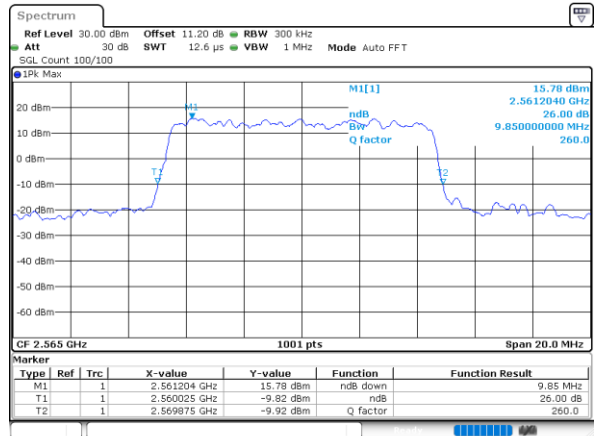
Date: 28_MAR_2020 12:37:50

Highest Channel / 10MHz / QPSK



Date: 28_MAR_2020 12:40:04

Highest Channel / 10MHz / 16QAM

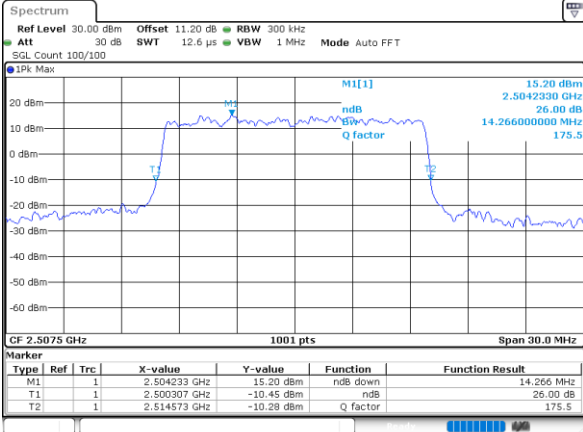


Date: 28_MAR_2020 12:40:16



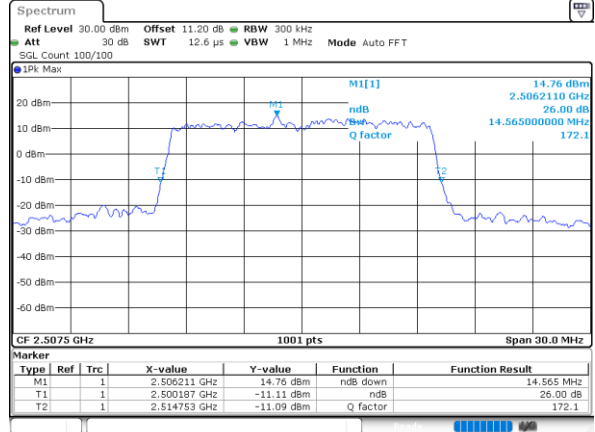
LTE Band 7

Lowest Channel / 15MHz / QPSK



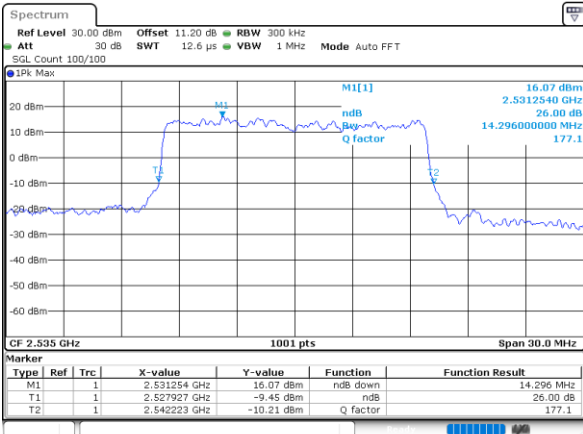
Date: 28_MAR_2020 12:54:19

Lowest Channel / 15MHz / 16QAM



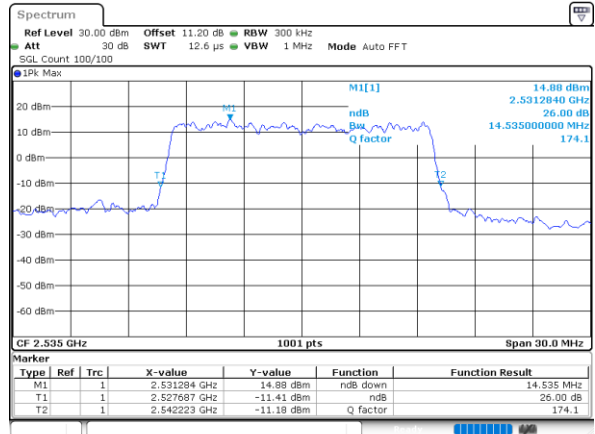
Date: 28_MAR_2020 12:54:31

Middle Channel / 15MHz / QPSK



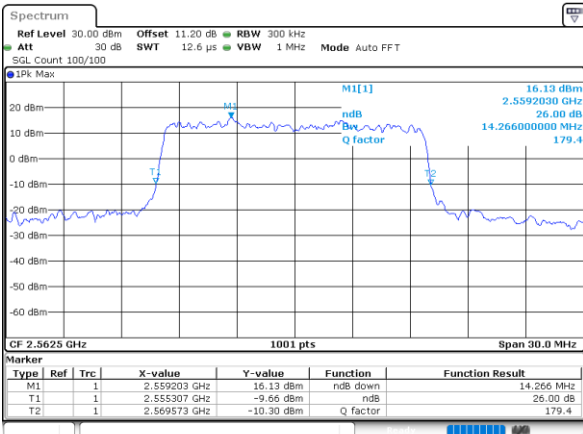
Date: 28_MAR_2020 13:00:50

Middle Channel / 15MHz / 16QAM



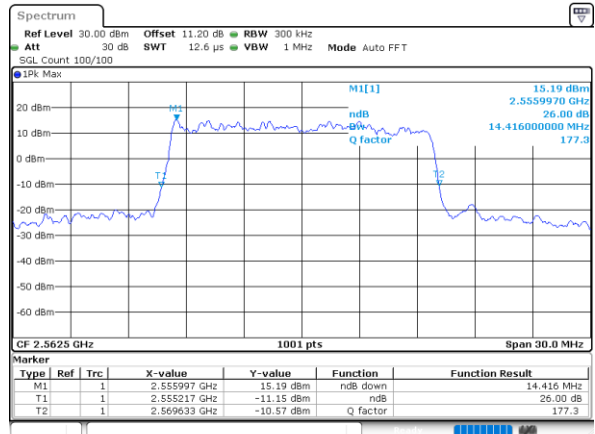
Date: 28_MAR_2020 13:01:02

Highest Channel / 15MHz / QPSK



Date: 28_MAR_2020 13:03:16

Highest Channel / 15MHz / 16QAM

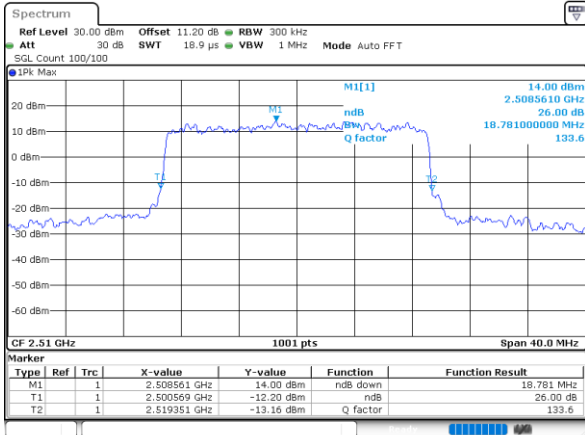


Date: 28_MAR_2020 13:03:28



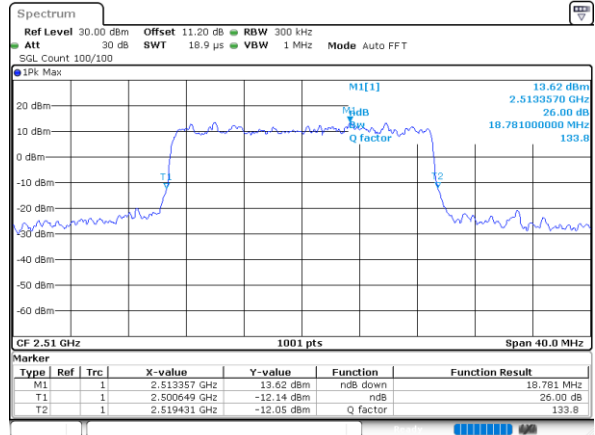
LTE Band 7

Lowest Channel / 20MHz / QPSK



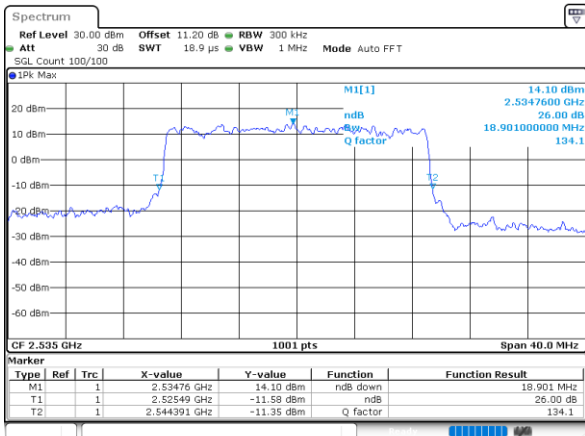
Date: 28_MAR_2020 13:17:32

Lowest Channel / 20MHz / 16QAM



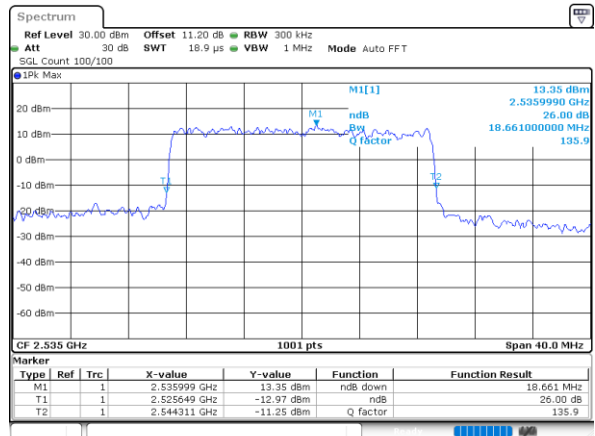
Date: 28_MAR_2020 13:17:44

Middle Channel / 20MHz / QPSK



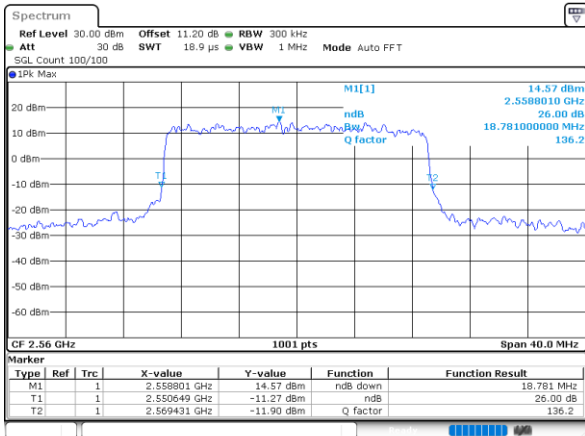
Date: 28_MAR_2020 13:24:03

Middle Channel / 20MHz / 16QAM



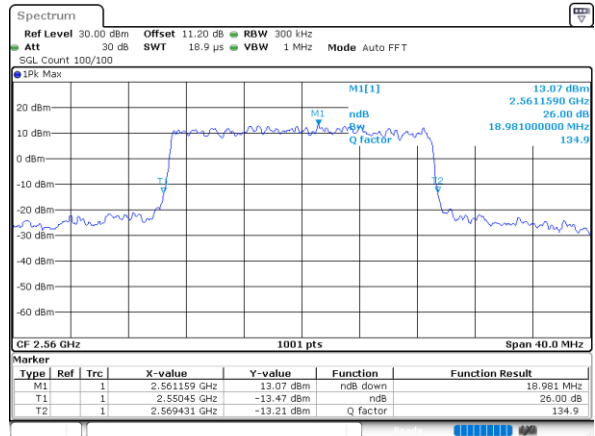
Date: 28_MAR_2020 13:24:15

Highest Channel / 20MHz / QPSK



Date: 28_MAR_2020 13:26:29

Highest Channel / 20MHz / 16QAM

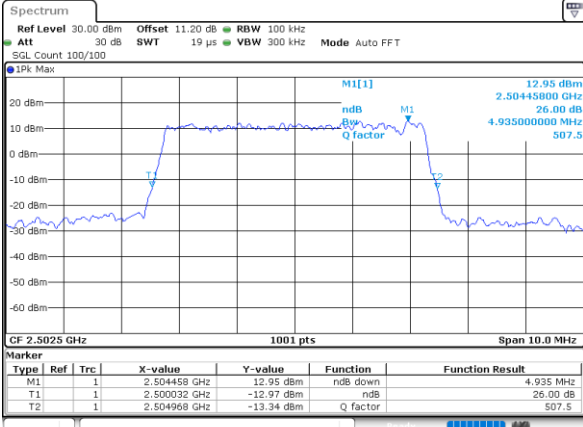


Date: 28_MAR_2020 13:26:41



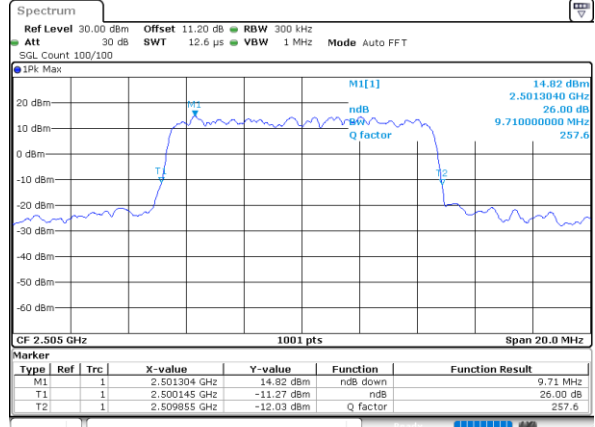
LTE Band 7

Lowest Channel / 5MHz / 64QAM



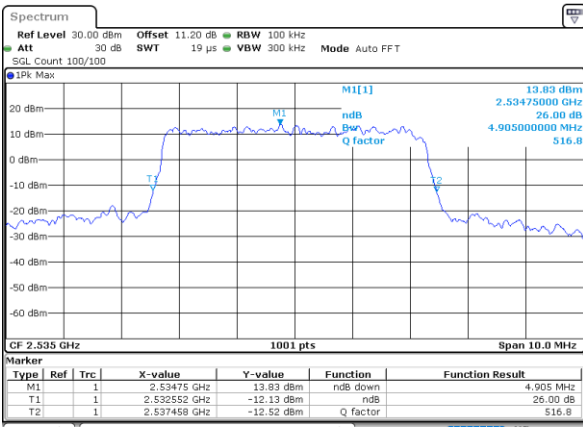
Date: 28_MAR_2020 12:23:13

Lowest Channel / 10MHz / 64QAM



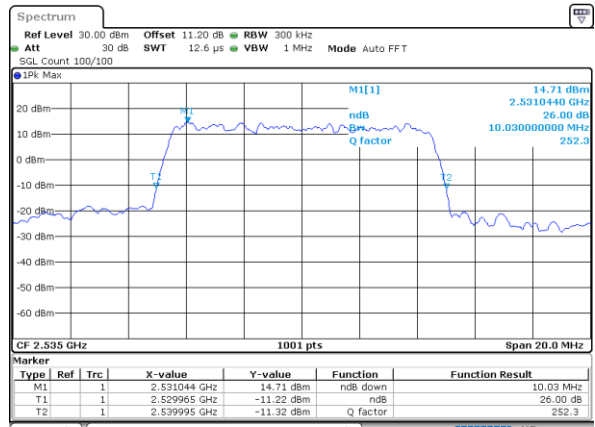
Date: 28_MAR_2020 12:14:123

Middle Channel / 5MHz / 64QAM



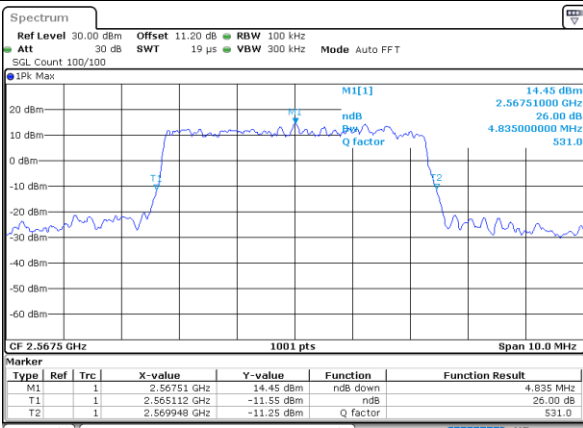
Date: 28_MAR_2020 12:26:28

Middle Channel / 10MHz / 64QAM



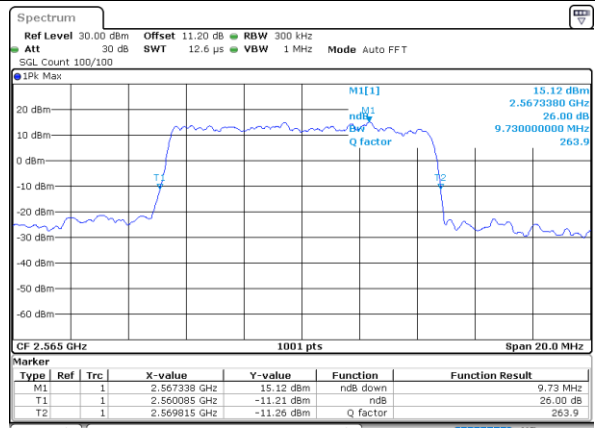
Date: 28_MAR_2020 12:14:138

Highest Channel / 5MHz / 64QAM



Date: 28_MAR_2020 12:27:41

Highest Channel / 10MHz / 64QAM

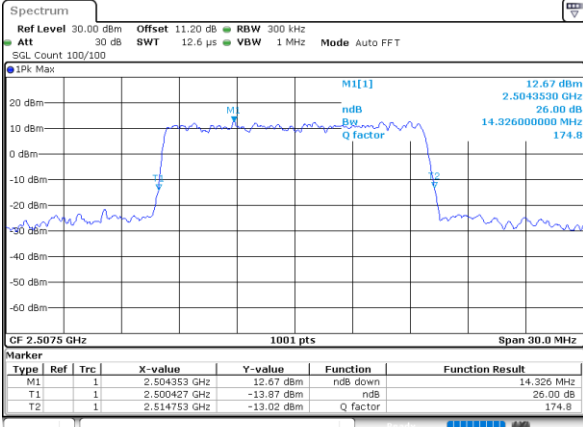


Date: 28_MAR_2020 12:15:51



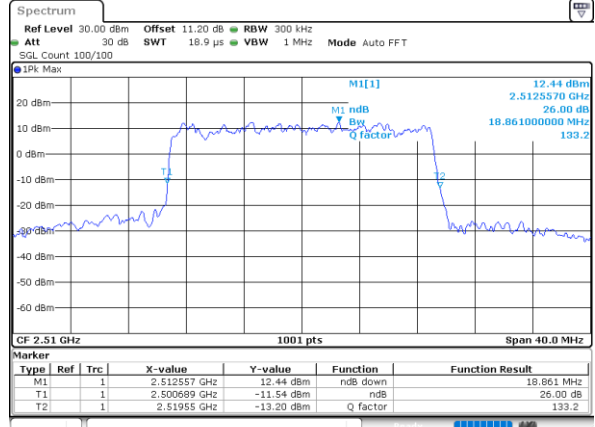
LTE Band 7

Lowest Channel / 15MHz / 64QAM



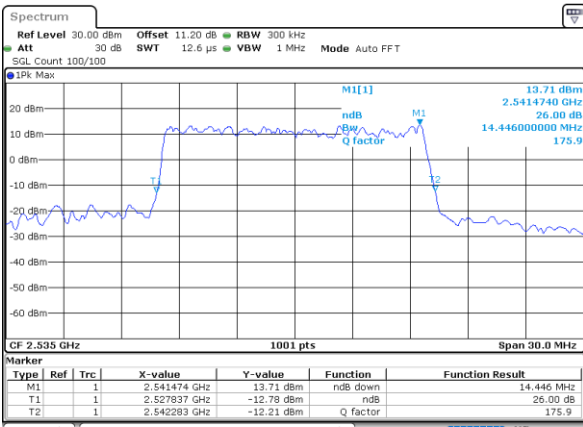
Date: 28_MAR_2020 13:09:35

Lowest Channel / 20MHz / 64QAM



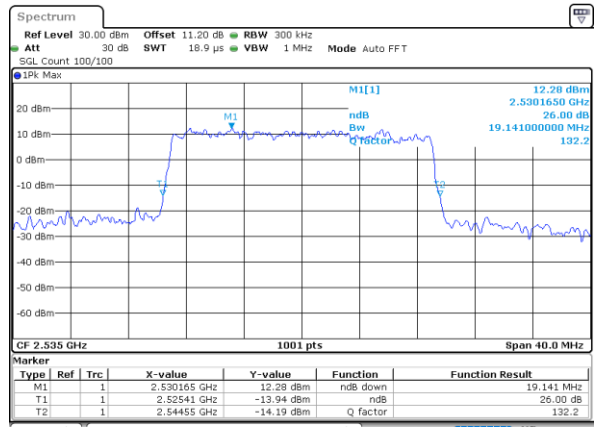
Date: 28_MAR_2020 13:13:148

Middle Channel / 15MHz / 64QAM



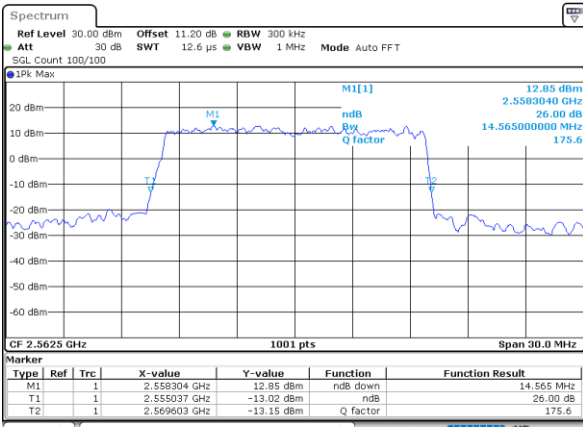
Date: 28_MAR_2020 13:12:51

Middle Channel / 20MHz / 64QAM



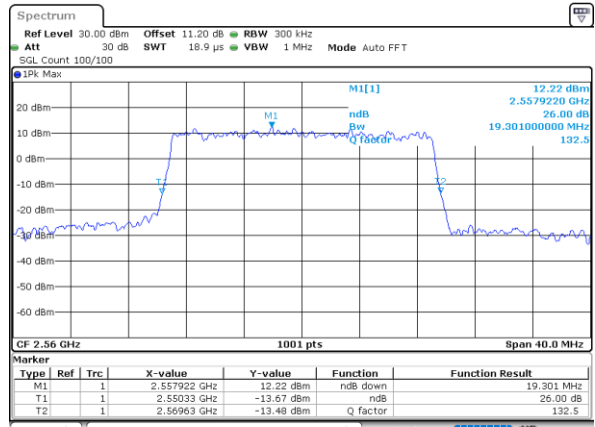
Date: 28_MAR_2020 13:13:6103

Highest Channel / 15MHz / 64QAM



Date: 28_MAR_2020 13:14:04

Highest Channel / 20MHz / 64QAM



Date: 28_MAR_2020 13:13:716



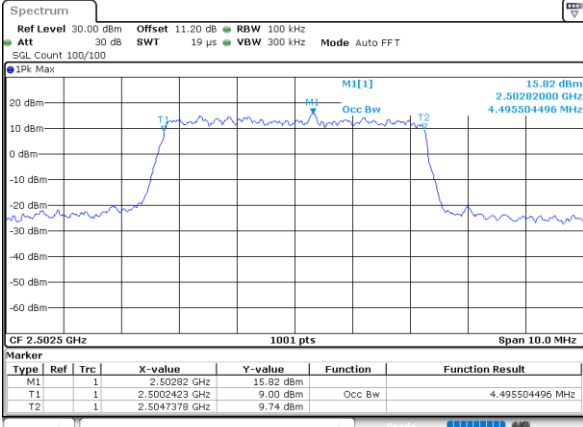
Occupied Bandwidth

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	4.50	9.03	9.03	13.49	13.40	17.86	17.78
Middle CH	-	-	-	-	4.52	4.50	9.03	9.01	13.34	13.46	17.90	17.94
Highest CH	-	-	-	-	4.51	4.50	9.05	9.01	13.43	13.40	17.86	17.90
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	-	9.03	-	13.43	-	17.82	-
Middle CH	-	-	-	-	4.48	-	8.99	-	13.46	-	17.86	-
Highest CH	-	-	-	-	4.47	-	8.99	-	13.40	-	17.86	-



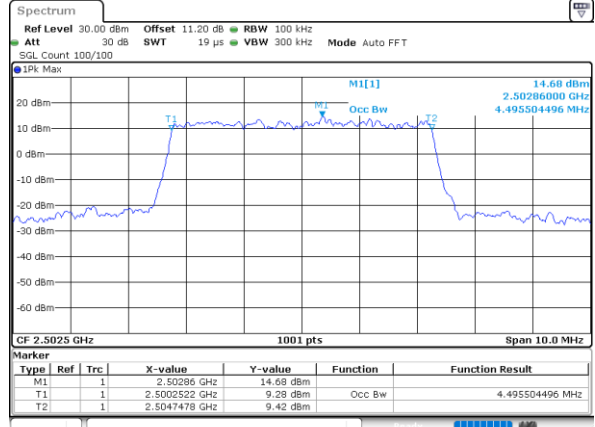
LTE Band 7

Lowest Channel / 5MHz / QPSK



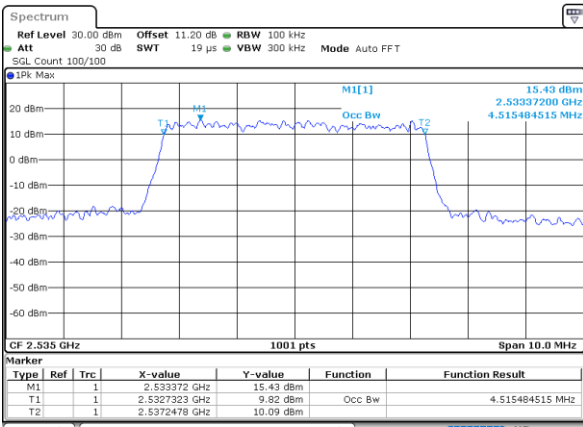
Date: 28_MAR_2020 12:07:32

Lowest Channel / 5MHz / 16QAM



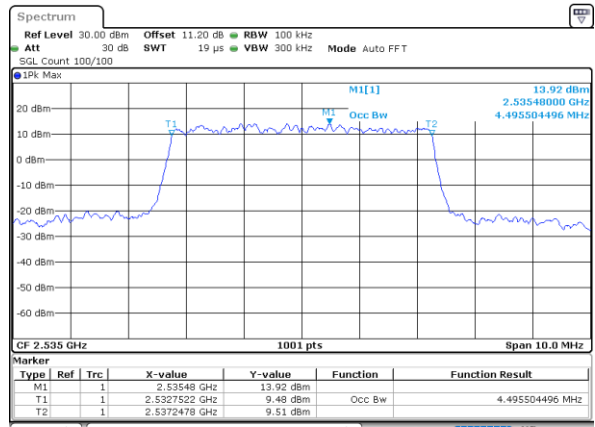
Date: 28_MAR_2020 12:07:44

Middle Channel / 5MHz / QPSK



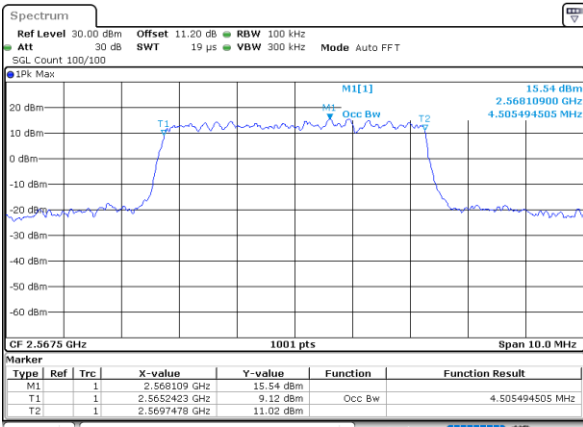
Date: 28_MAR_2020 12:14:04

Middle Channel / 5MHz / 16QAM



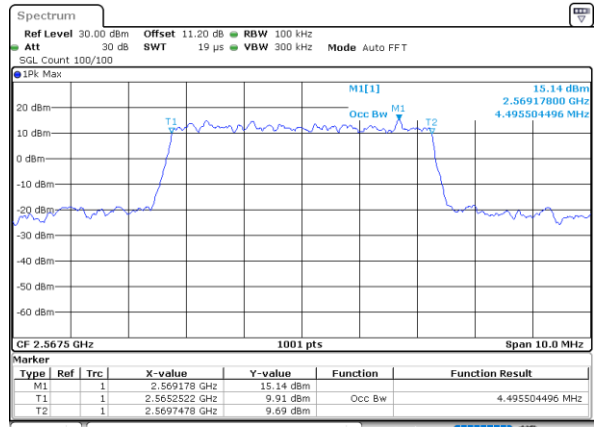
Date: 28_MAR_2020 12:14:16

Highest Channel / 5MHz / QPSK



Date: 28_MAR_2020 12:16:29

Highest Channel / 5MHz / 16QAM

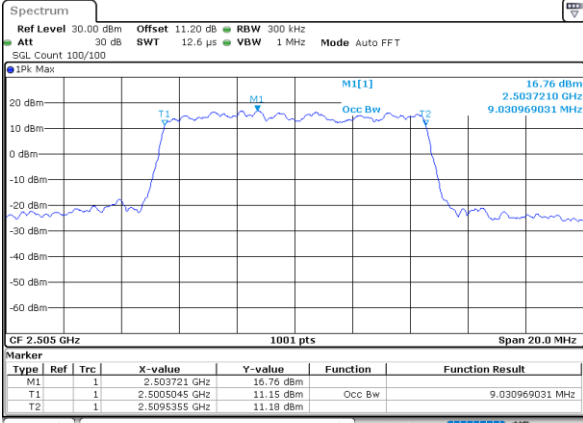


Date: 28_MAR_2020 12:16:41



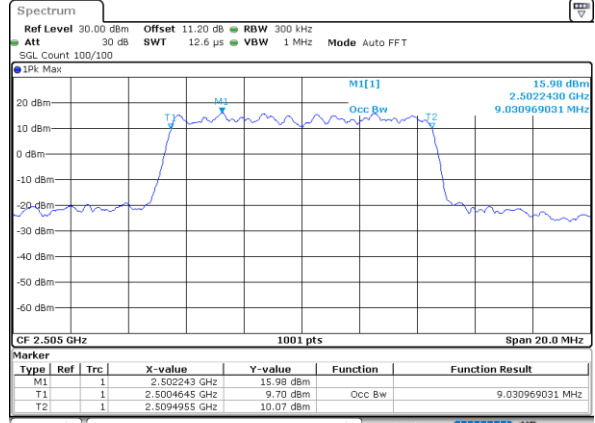
LTE Band 7

Lowest Channel / 10MHz / QPSK



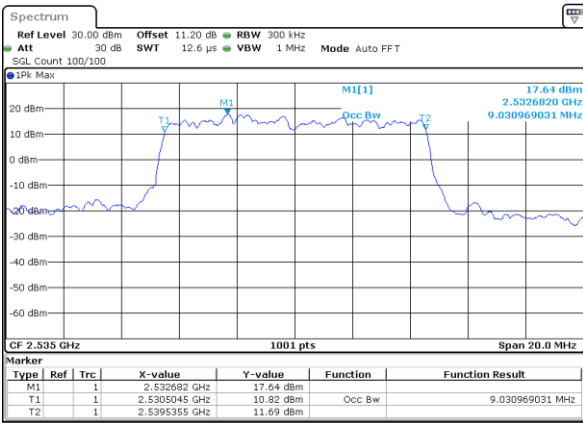
Date: 28_MAR_2020 12:30:44

Lowest Channel / 10MHz / 16QAM



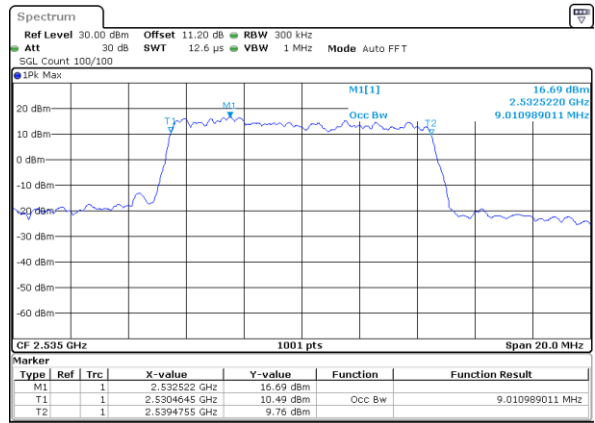
Date: 28_MAR_2020 12:30:57

Middle Channel / 10MHz / QPSK



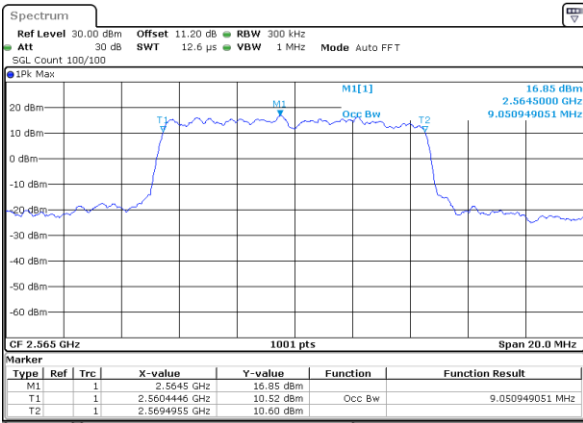
Date: 28_MAR_2020 12:37:15

Middle Channel / 10MHz / 16QAM



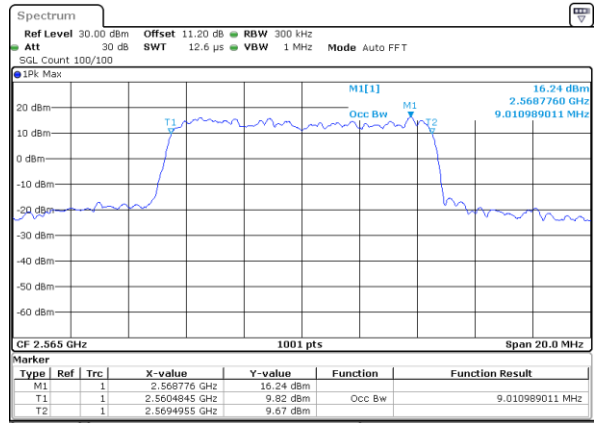
Date: 28_MAR_2020 12:37:27

Highest Channel / 10MHz / QPSK



Date: 28_MAR_2020 12:39:40

Highest Channel / 10MHz / 16QAM

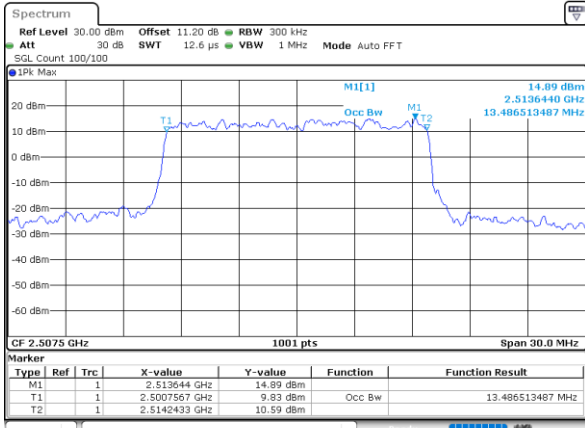


Date: 28_MAR_2020 12:39:52



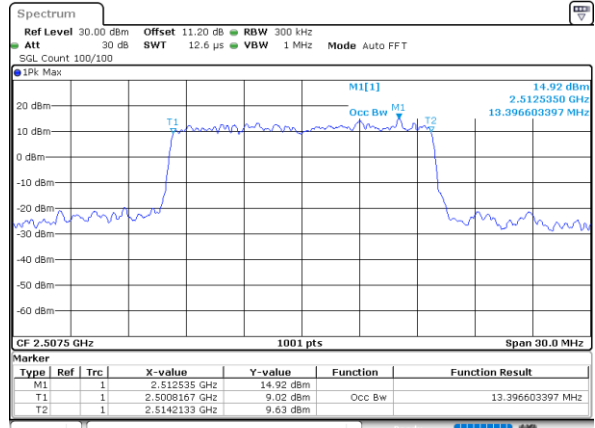
LTE Band 7

Lowest Channel / 15MHz / QPSK



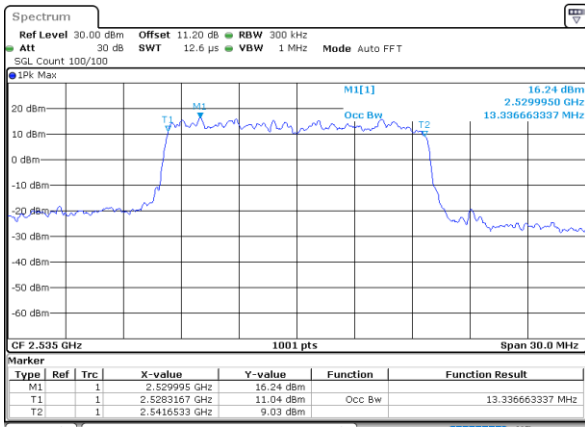
Date: 28_MAR.2020 12:53:55

Lowest Channel / 15MHz / 16QAM



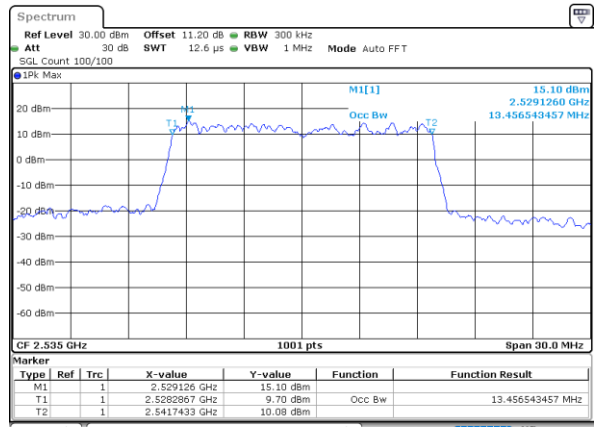
Date: 28_MAR.2020 12:54:07

Middle Channel / 15MHz / QPSK



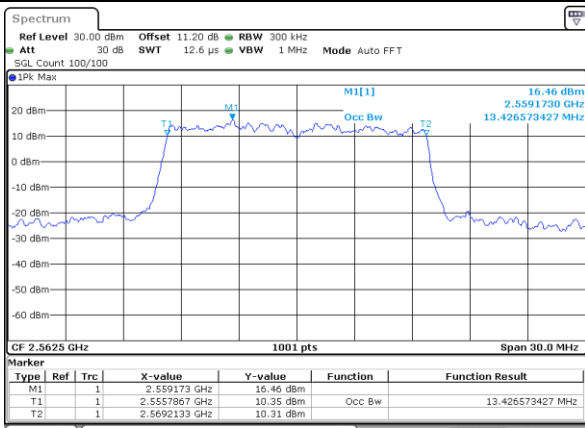
Date: 28_MAR.2020 13:00:27

Middle Channel / 15MHz / 16QAM



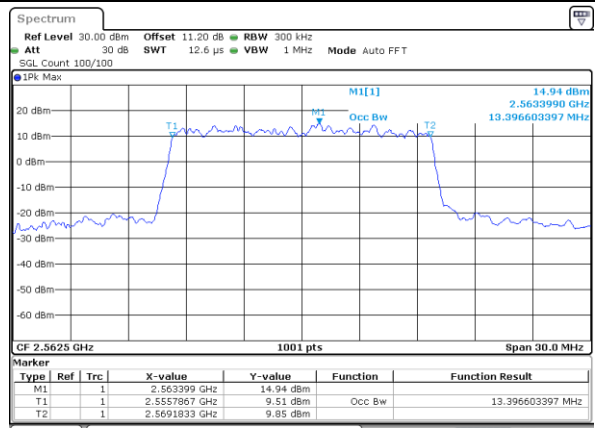
Date: 28_MAR.2020 13:00:39

Highest Channel / 15MHz / QPSK



Date: 28_MAR.2020 13:02:52

Highest Channel / 15MHz / 16QAM

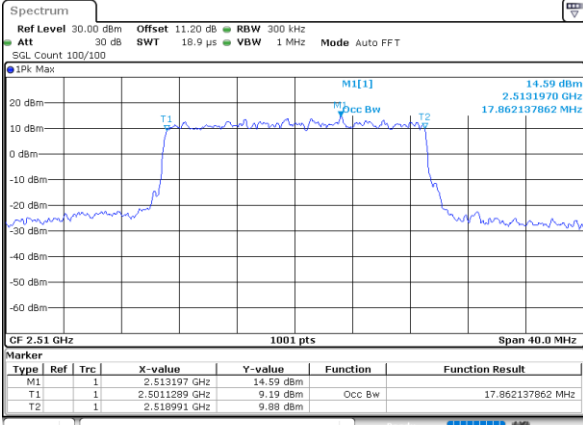


Date: 28_MAR.2020 13:03:04



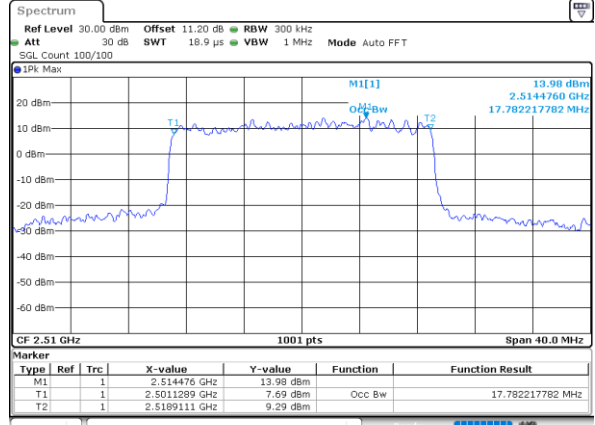
LTE Band 7

Lowest Channel / 20MHz / QPSK



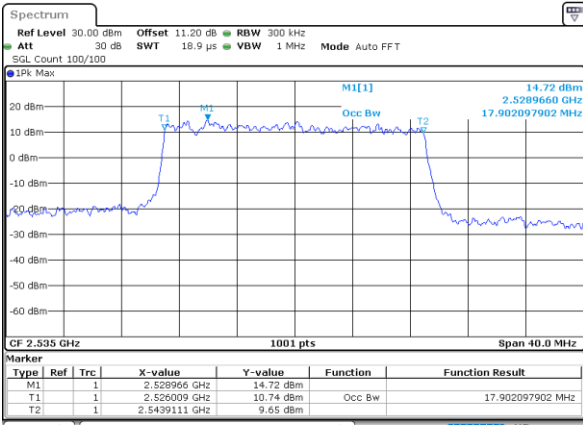
Date: 28_MAR_2020 13:17:07

Lowest Channel / 20MHz / 16QAM



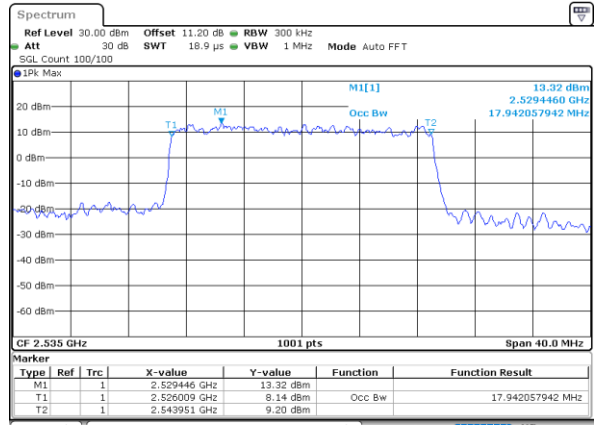
Date: 28_MAR_2020 13:17:120

Middle Channel / 20MHz / QPSK



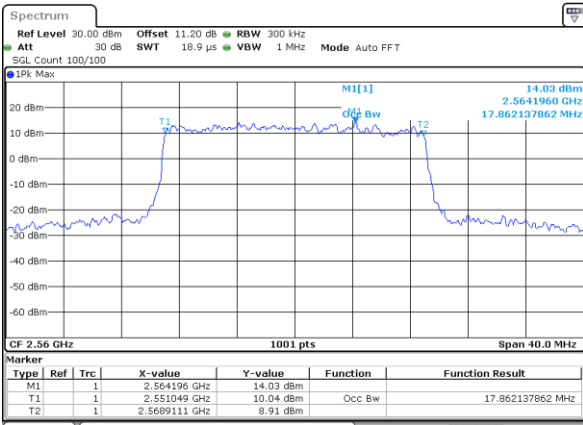
Date: 28_MAR_2020 13:23:40

Middle Channel / 20MHz / 16QAM



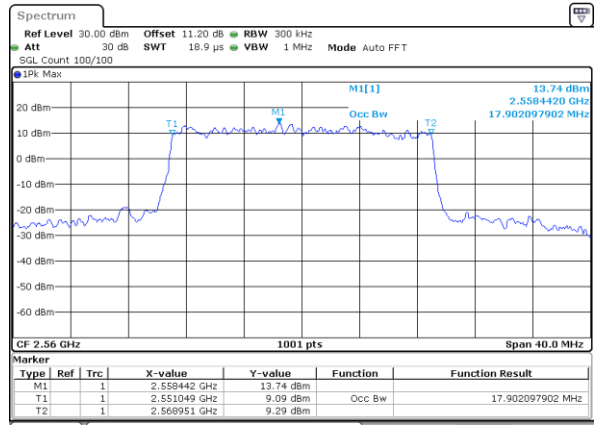
Date: 28_MAR_2020 13:23:52

Highest Channel / 20MHz / QPSK



Date: 28_MAR_2020 13:26:05

Highest Channel / 20MHz / 16QAM

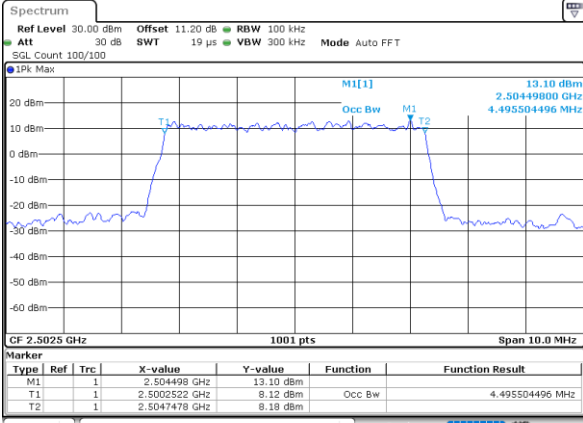


Date: 28_MAR_2020 13:26:17



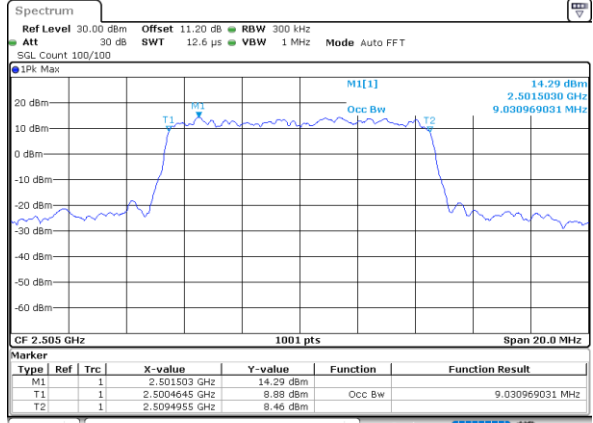
LTE Band 7

Lowest Channel / 5MHz / 64QAM



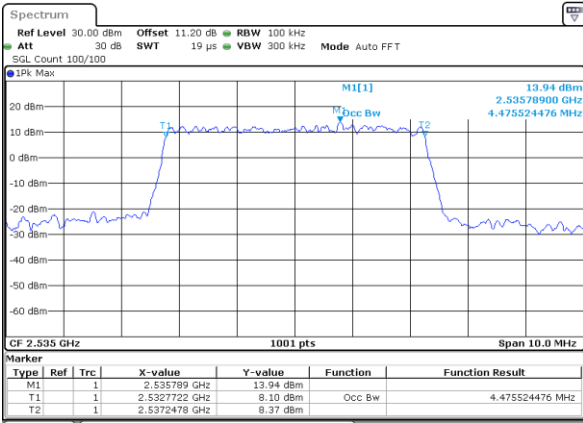
Date: 28_MAR_2020 12:23:01

Lowest Channel / 10MHz / 64QAM



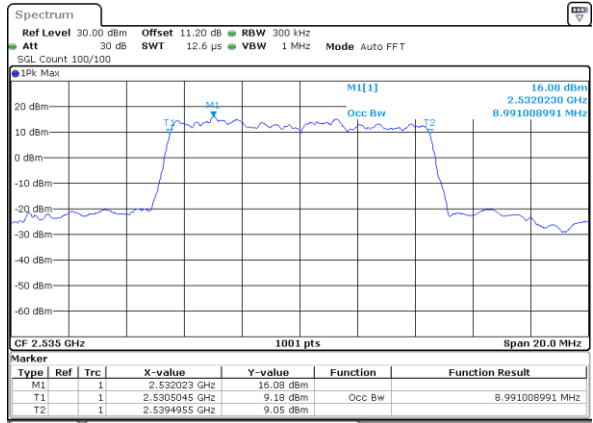
Date: 28_MAR_2020 12:14:11

Middle Channel / 5MHz / 64QAM



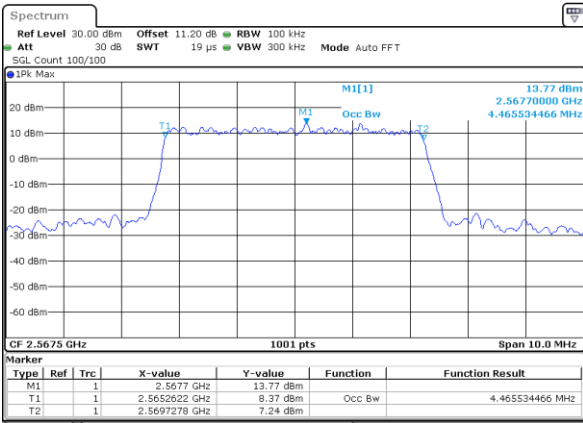
Date: 28_MAR_2020 12:26:16

Middle Channel / 10MHz / 64QAM



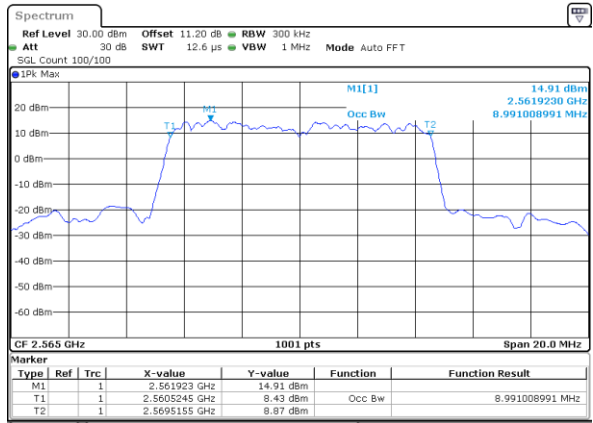
Date: 28_MAR_2020 12:14:26

Highest Channel / 5MHz / 64QAM



Date: 28_MAR_2020 12:27:29

Highest Channel / 10MHz / 64QAM

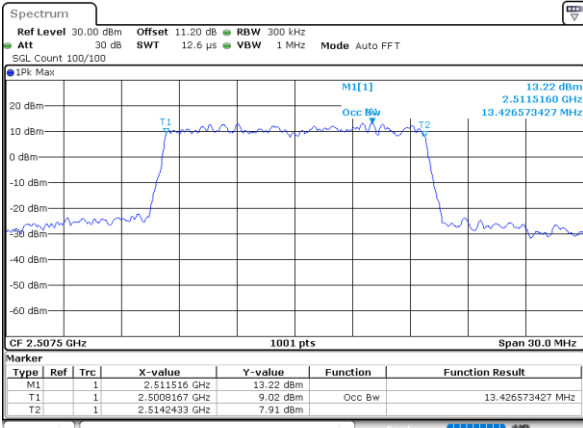


Date: 28_MAR_2020 12:15:39



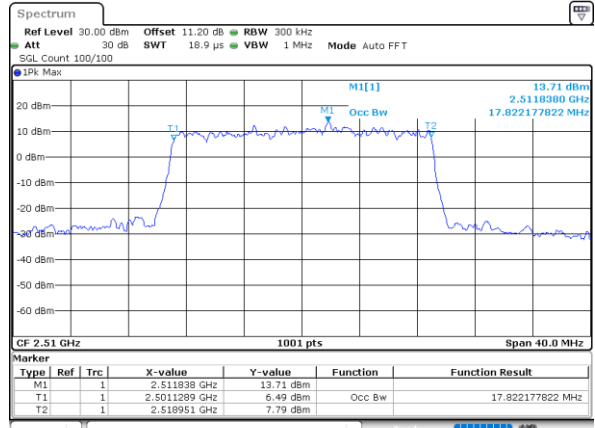
LTE Band 7

Lowest Channel / 15MHz / 64QAM



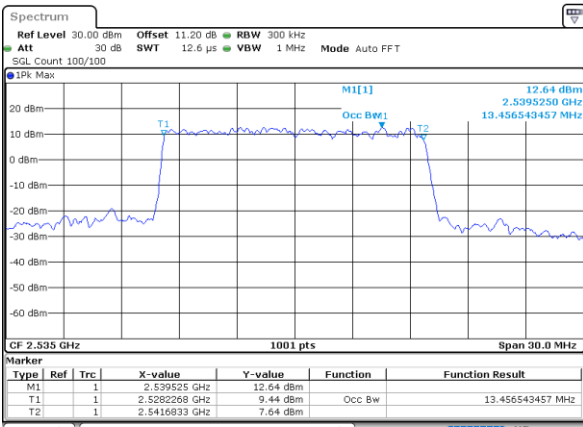
Date: 28_MAR_2020 13:09:23

Lowest Channel / 20MHz / 64QAM



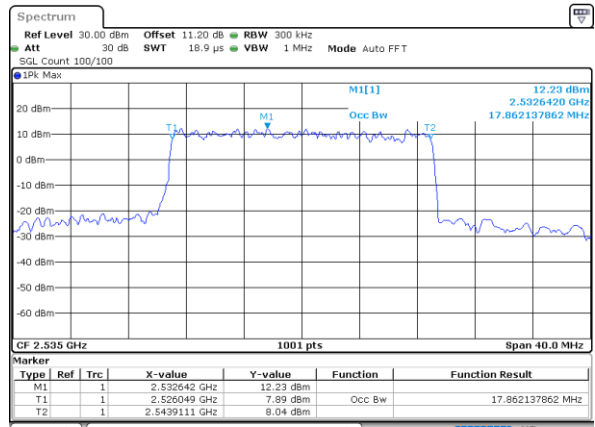
Date: 28_MAR_2020 13:13:136

Middle Channel / 15MHz / 64QAM



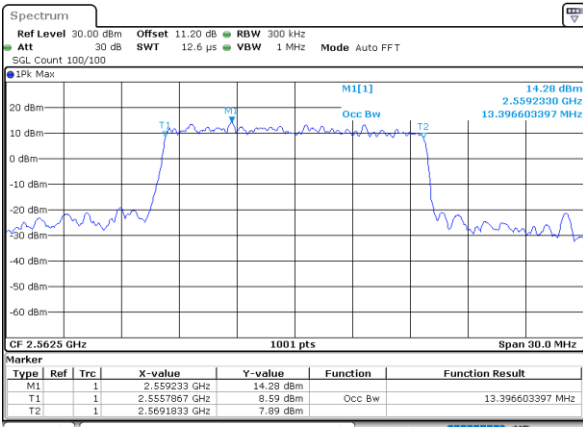
Date: 28_MAR_2020 13:12:39

Middle Channel / 20MHz / 64QAM



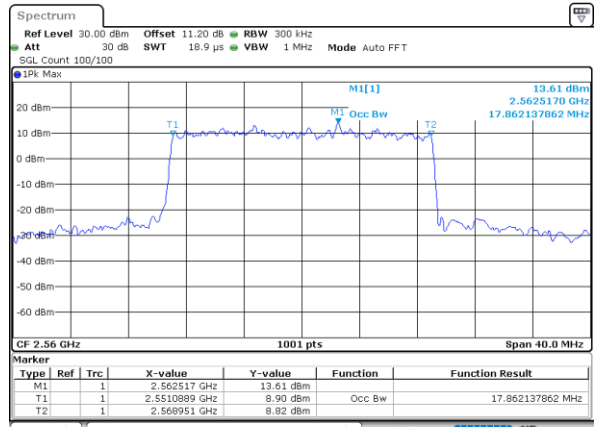
Date: 28_MAR_2020 13:15:152

Highest Channel / 15MHz / 64QAM



Date: 28_MAR_2020 13:13:52

Highest Channel / 20MHz / 64QAM



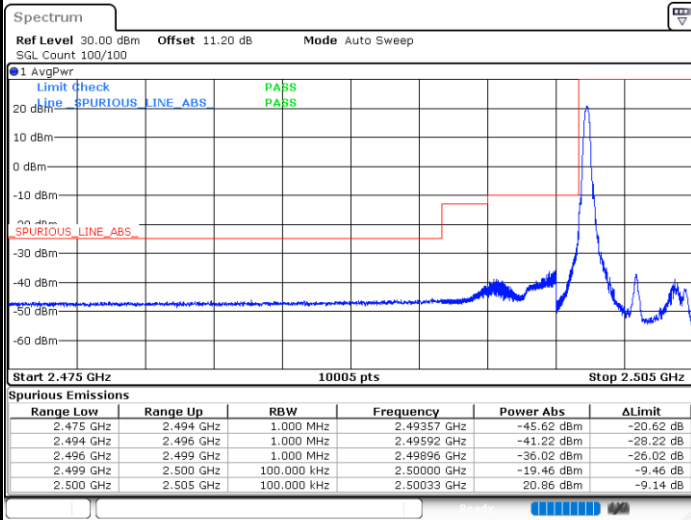
Date: 28_MAR_2020 13:17:104



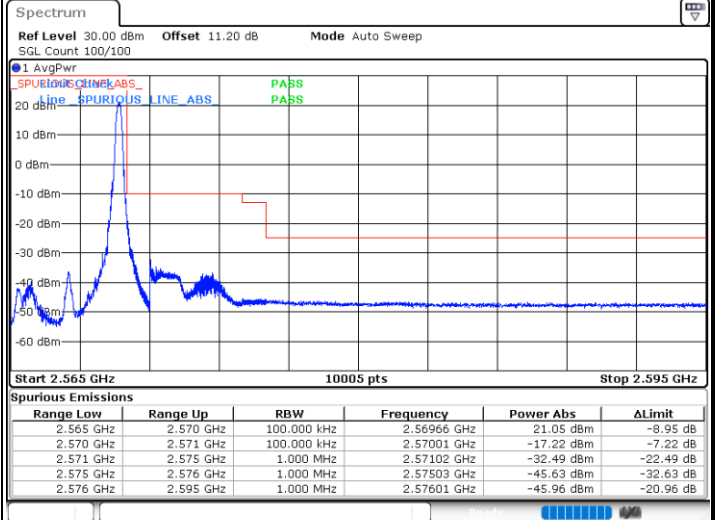
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

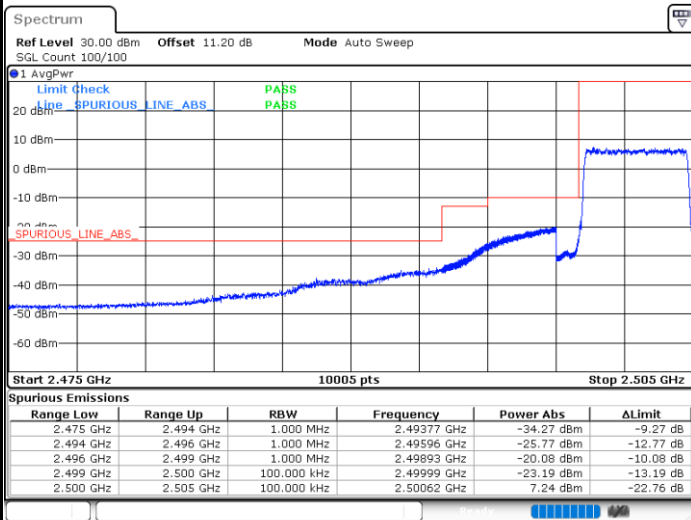
Lowest Band Edge / 1 RB



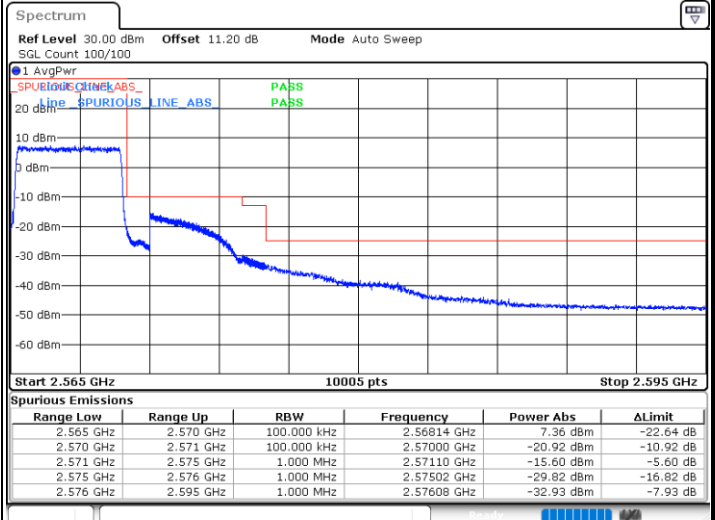
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



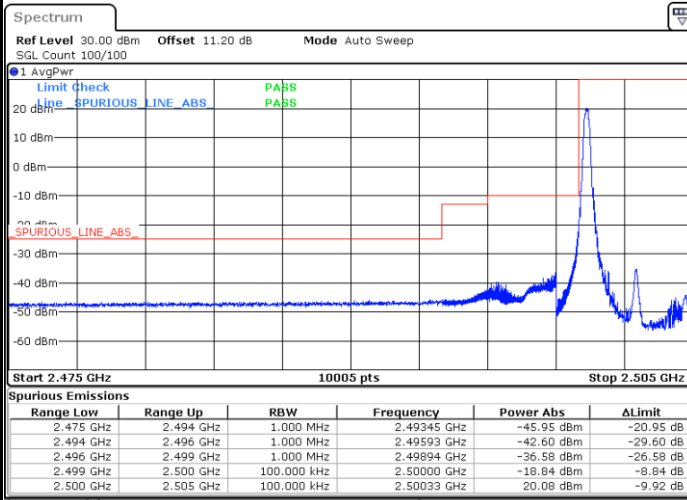
Highest Band Edge / Full RB





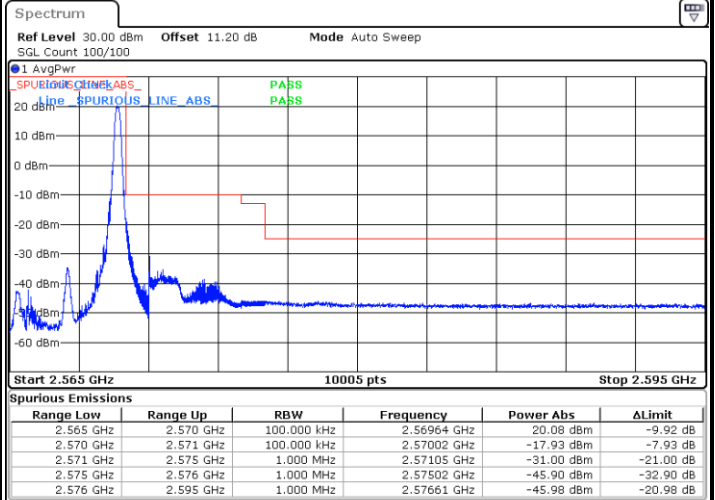
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



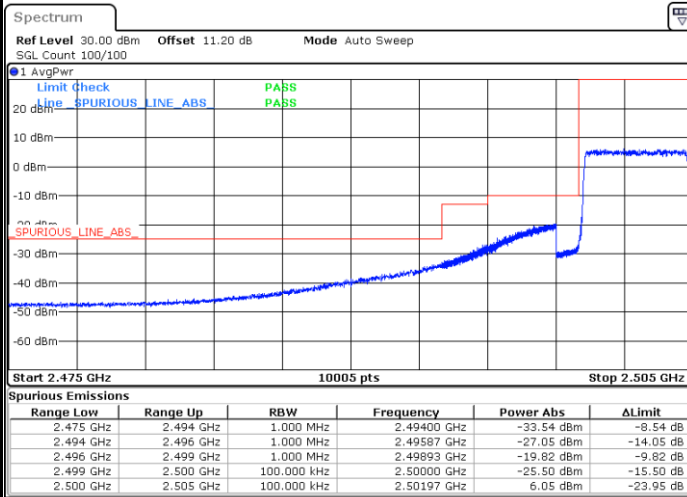
Date: 28.MAR.2020 12:10:10

Highest Band Edge / 1 RB



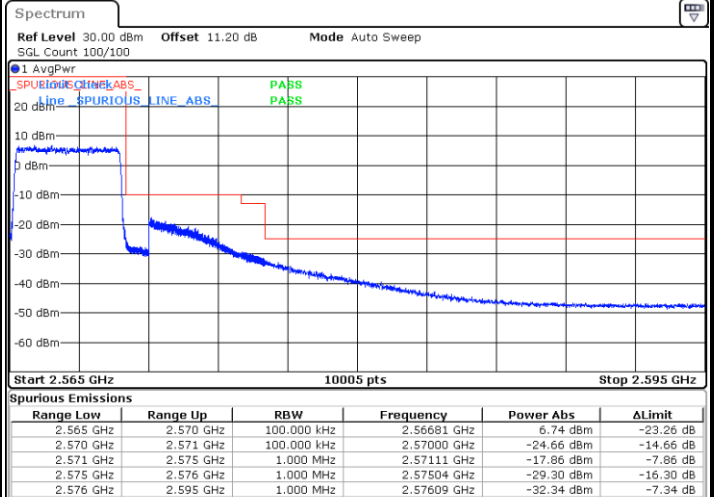
Date: 28.MAR.2020 12:19:07

Lowest Band Edge / Full RB



Date: 28.MAR.2020 12:12:13

Highest Band Edge / Full RB

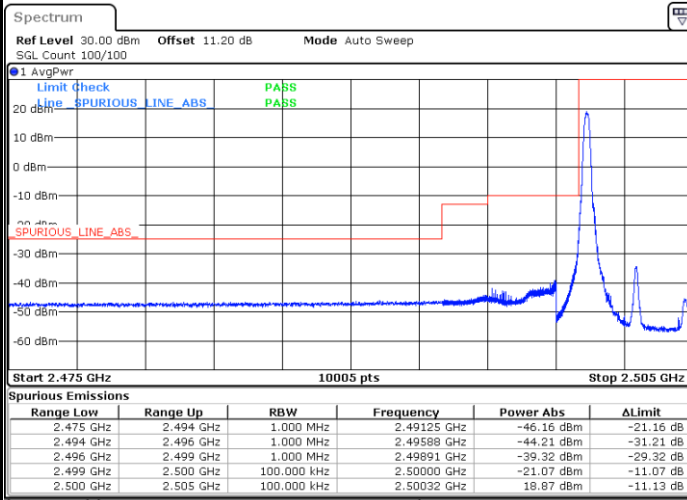


Date: 28.MAR.2020 12:21:09



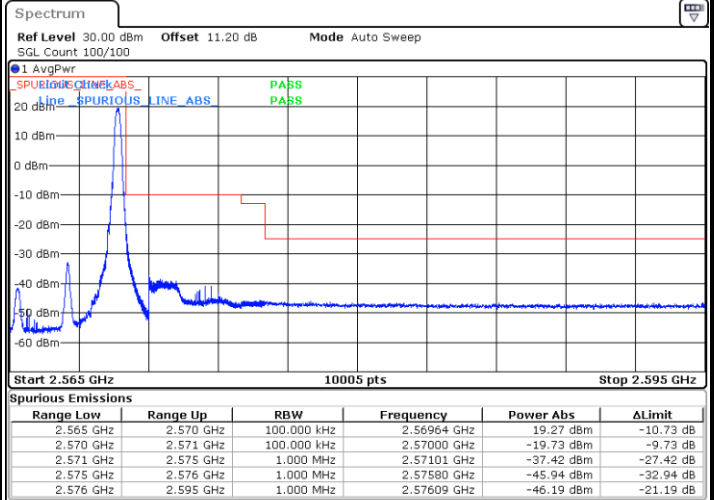
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



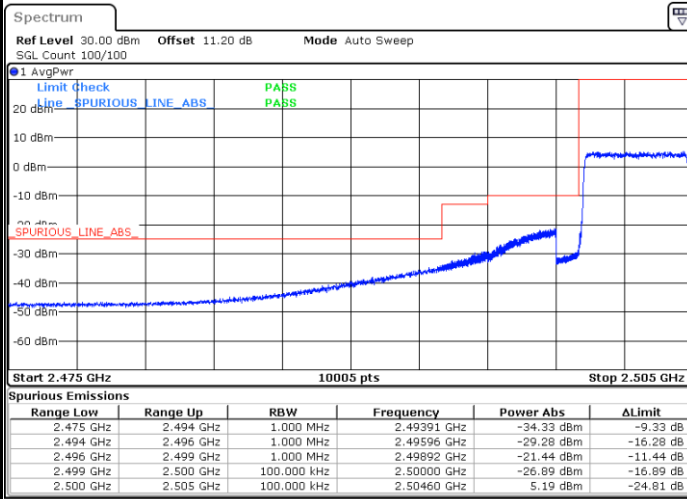
Date: 28.MAR.2020 12:24:13

Highest Band Edge / 1 RB



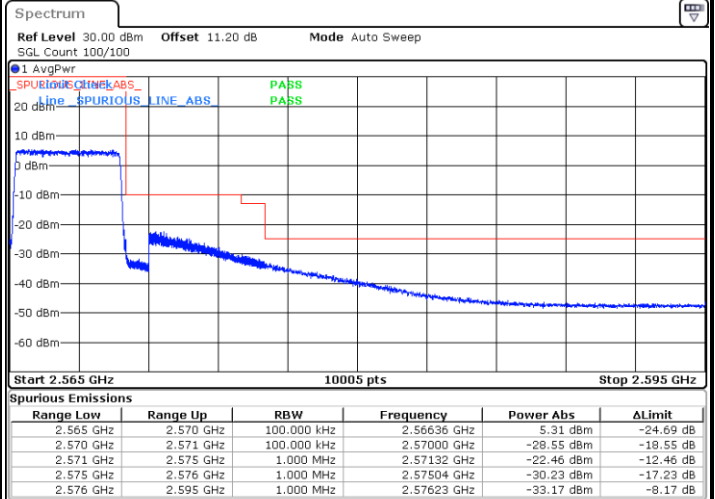
Date: 28.MAR.2020 12:28:41

Lowest Band Edge / Full RB



Date: 28.MAR.2020 12:25:15

Highest Band Edge / Full RB



Date: 28.MAR.2020 12:29:42