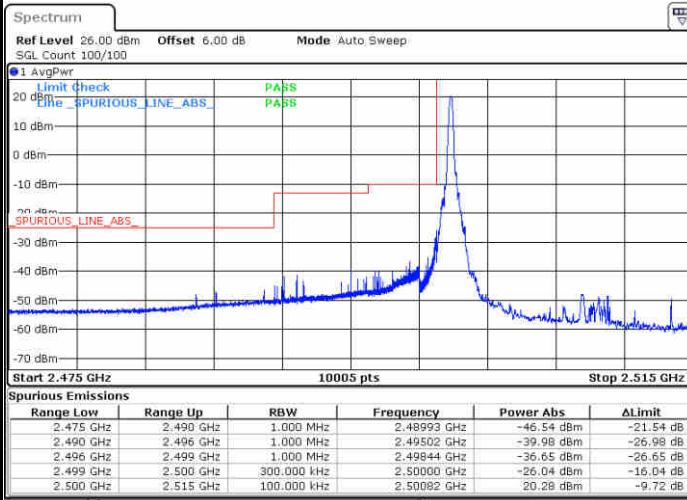




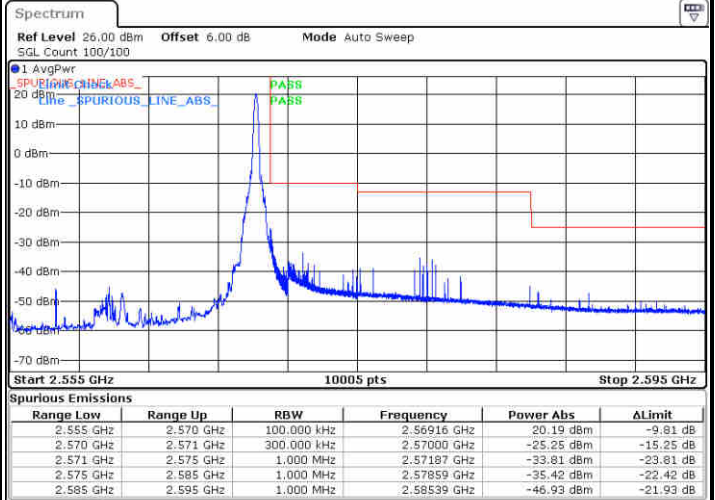
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



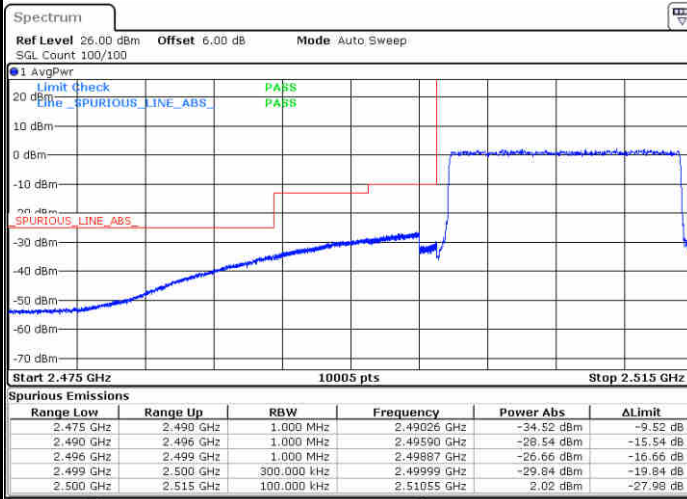
Date: 26 JUN 2020 06:51:01

Highest Band Edge / 1 RB



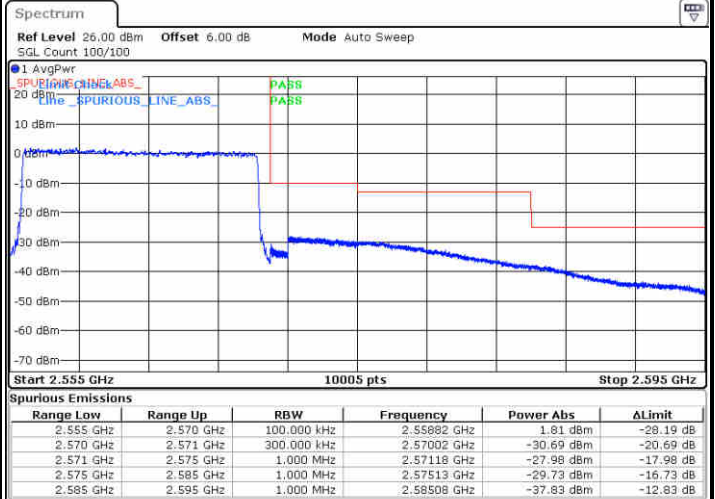
Date: 26 JUN 2020 06:53:17

Lowest Band Edge / Full RB



Date: 26 JUN 2020 06:49:53

Highest Band Edge / Full RB



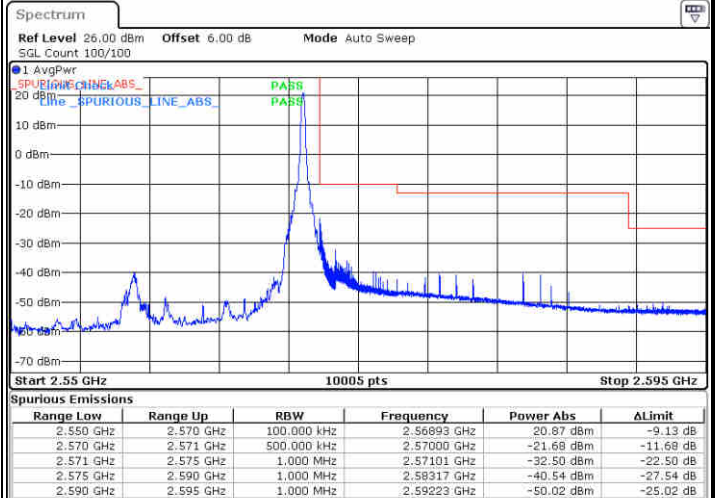
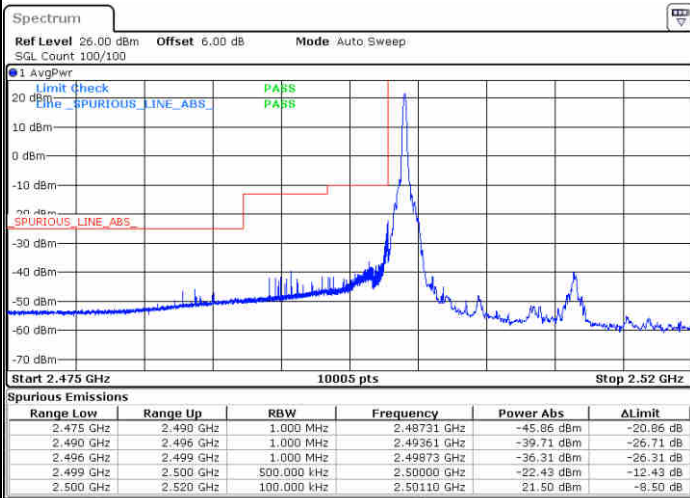
Date: 26 JUN 2020 06:52:09



LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

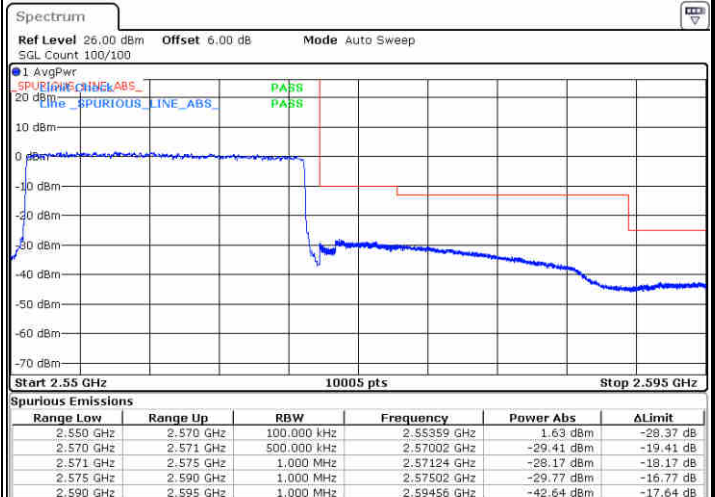
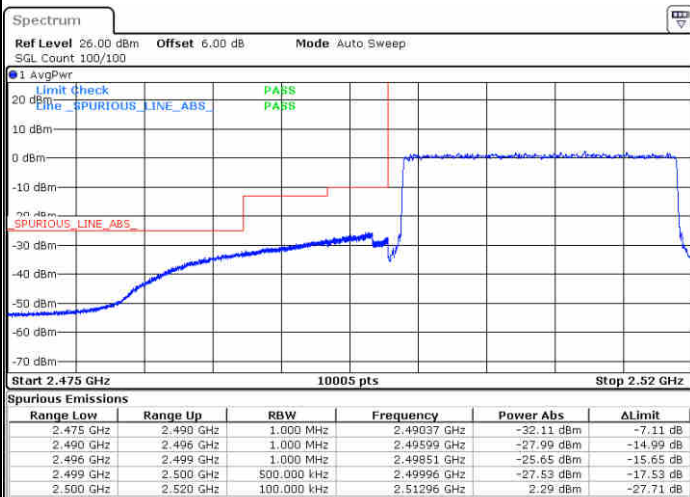


Date: 26 JUN 2020 06:17:56

Date: 26 JUN 2020 06:25:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



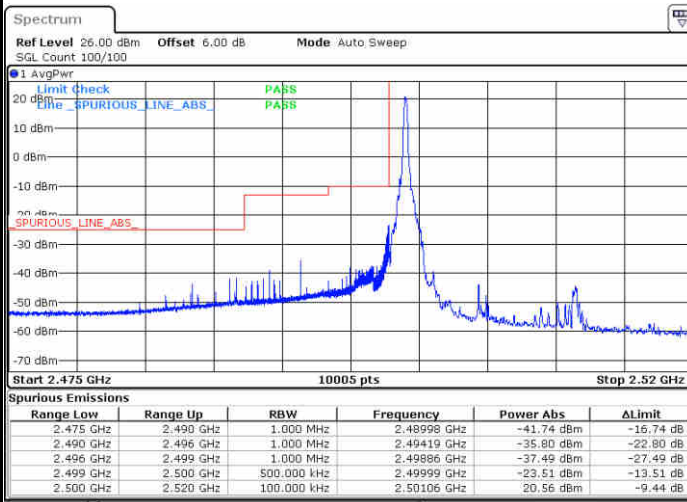
Date: 26 JUN 2020 06:21:21

Date: 26 JUN 2020 06:22:29



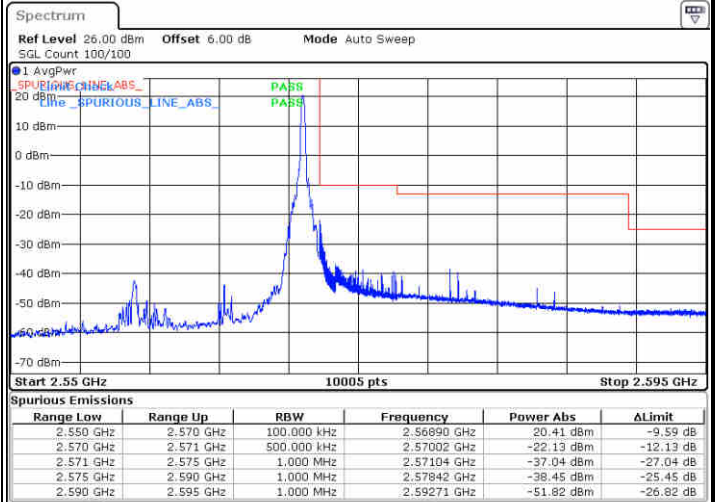
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



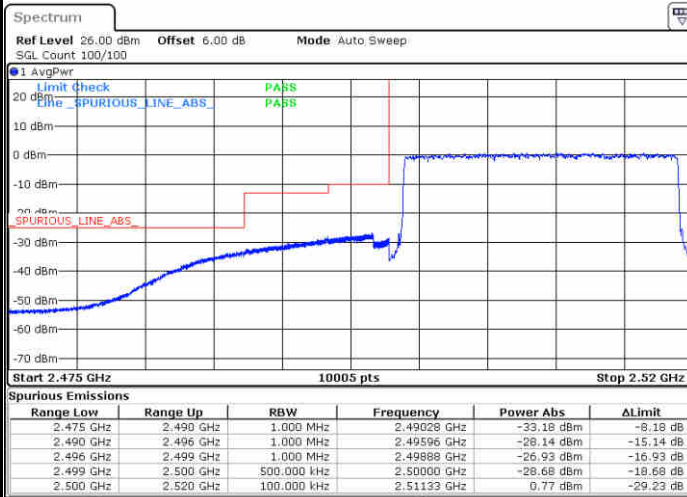
Date: 26 JUN 2020 06:19:04

Highest Band Edge / 1RB



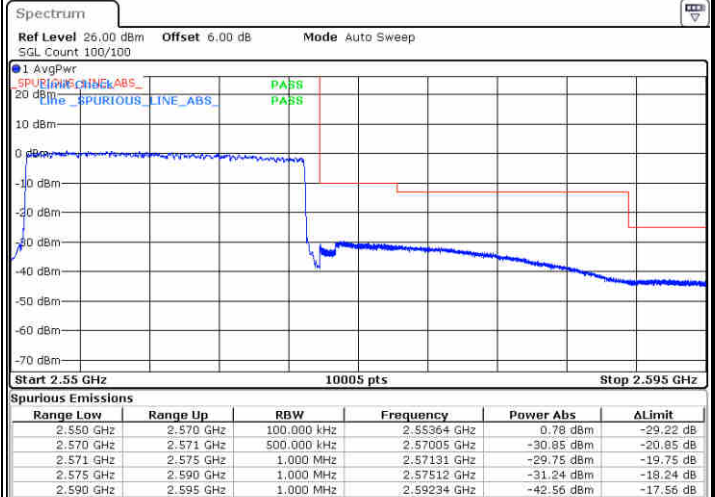
Date: 26 JUN 2020 06:24:45

Lowest Band Edge / Full RB



Date: 26 JUN 2020 06:20:13

Highest Band Edge / Full RB

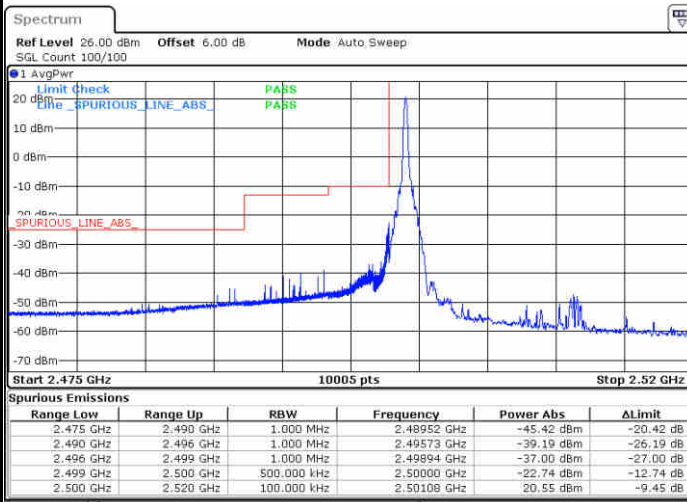


Date: 26 JUN 2020 06:23:37



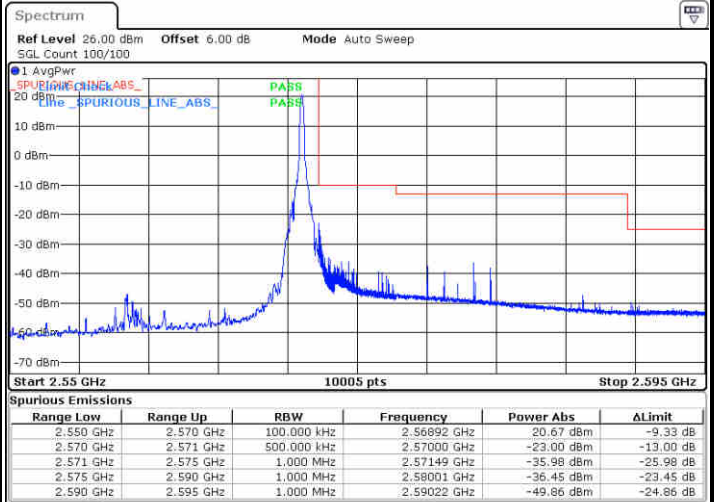
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



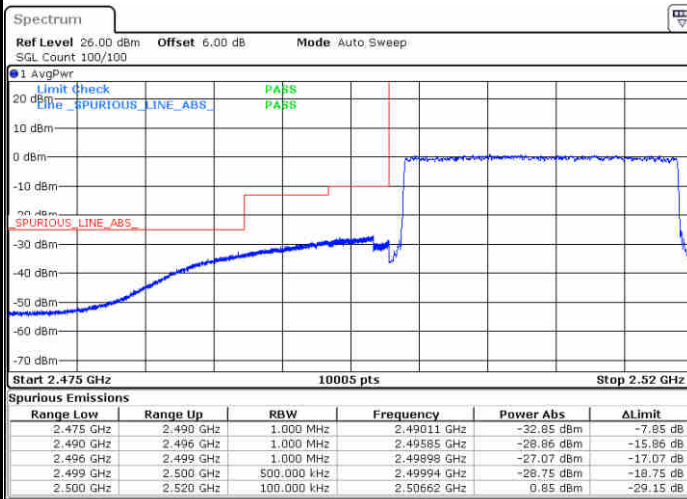
Date: 26 JUN 2020 06:59:15

Highest Band Edge / 1 RB



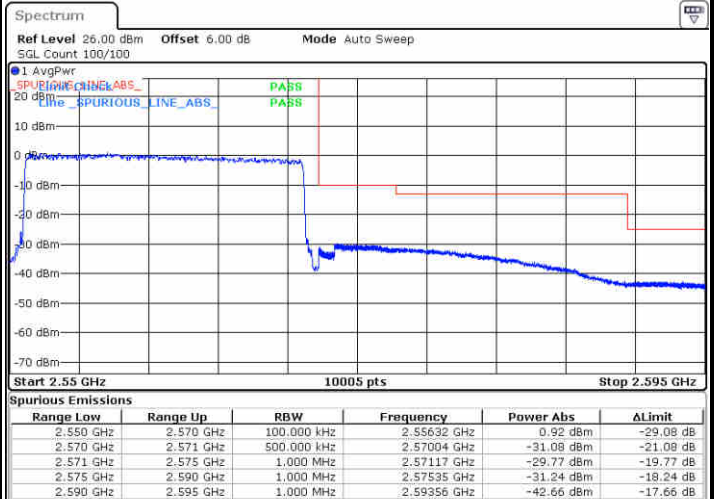
Date: 26 JUN 2020 07:01:32

Lowest Band Edge / Full RB



Date: 26 JUN 2020 06:58:07

Highest Band Edge / Full RB



Date: 26 JUN 2020 07:00:23



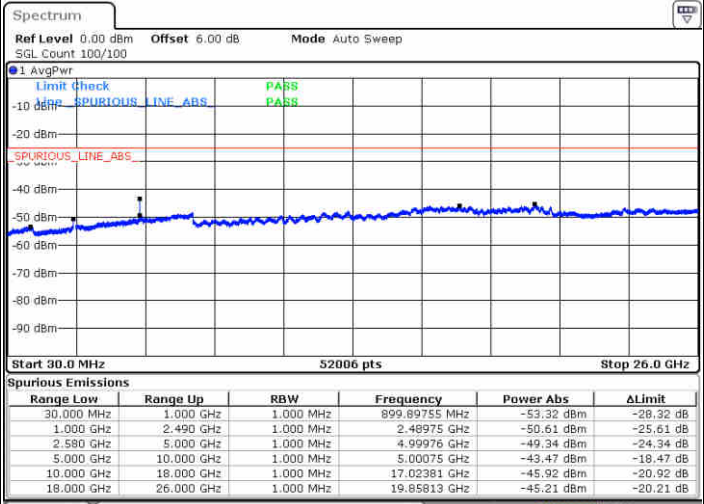
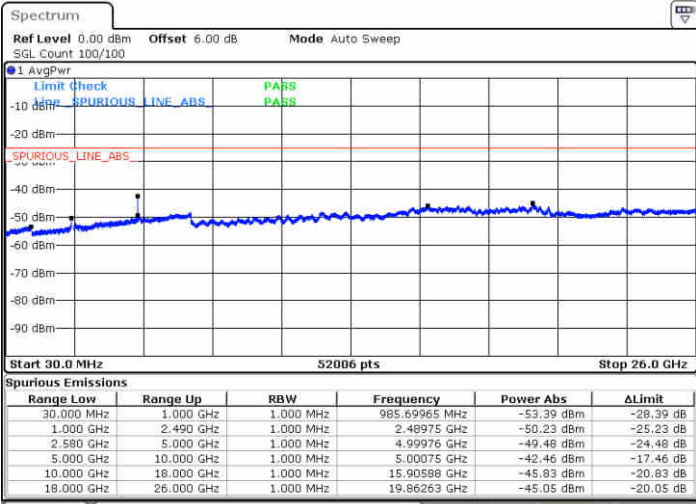
Conducted Spurious Emission



LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

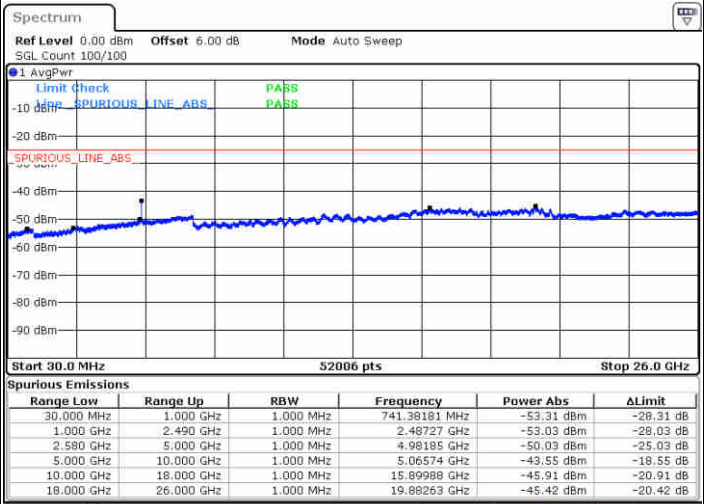
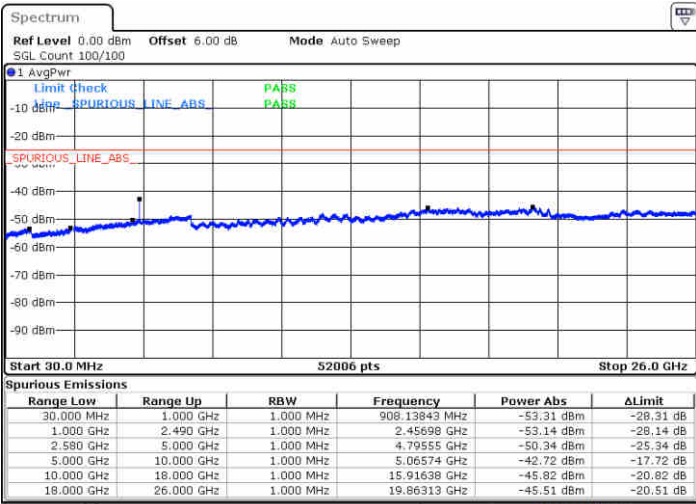


Date: 26 JUN 2020 05:37:21

Date: 26 JUN 2020 05:38:14

Middle Channel / QPSK

Middle Channel / 16QAM



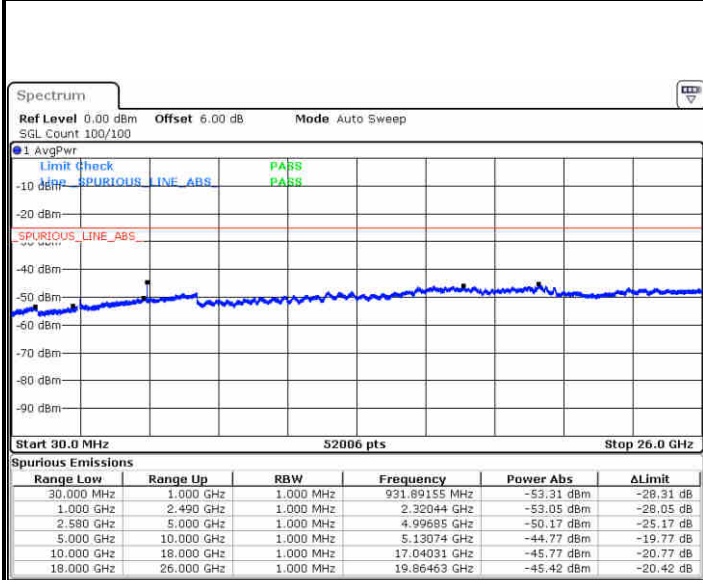
Date: 26 JUN 2020 05:40:02

Date: 26 JUN 2020 05:39:08



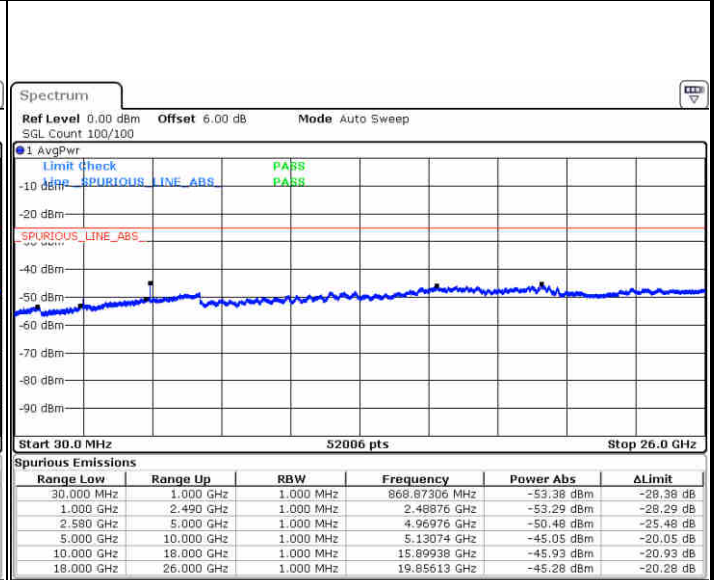
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 26 JUN 2020 05:40:56

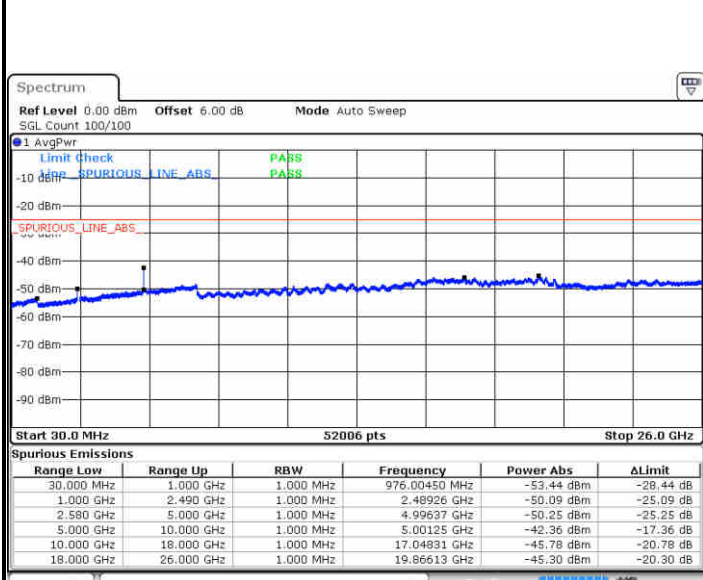
Highest Channel / 16QAM



Date: 26 JUN 2020 05:41:50

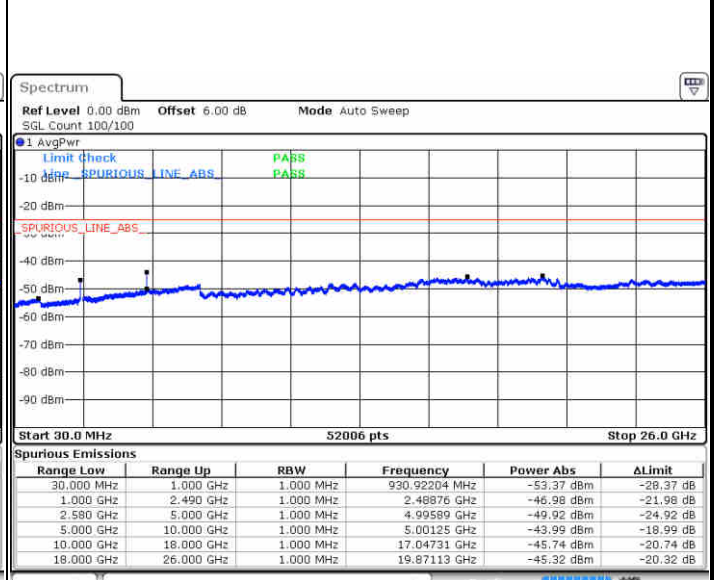
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 26 JUN 2020 05:53:48

Lowest Channel / 16QAM



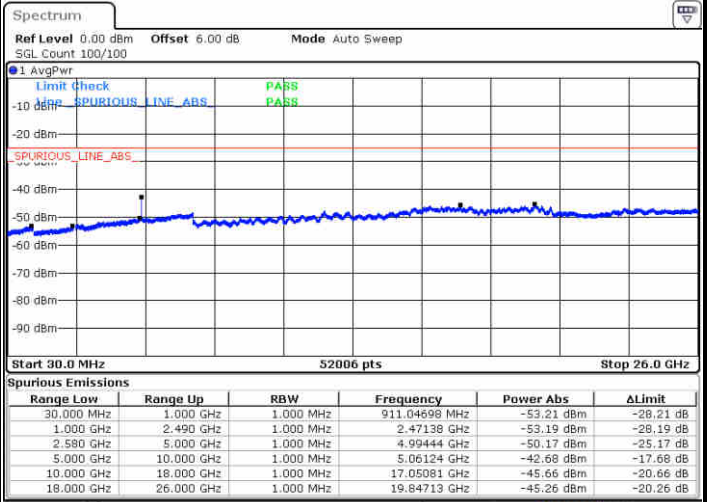
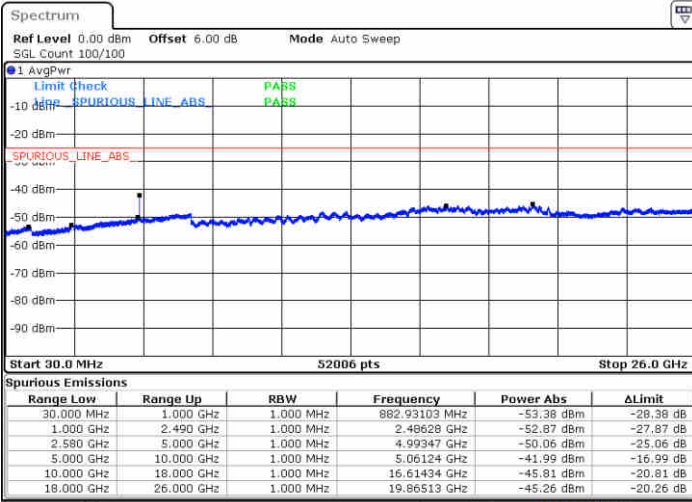
Date: 26 JUN 2020 05:54:42



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

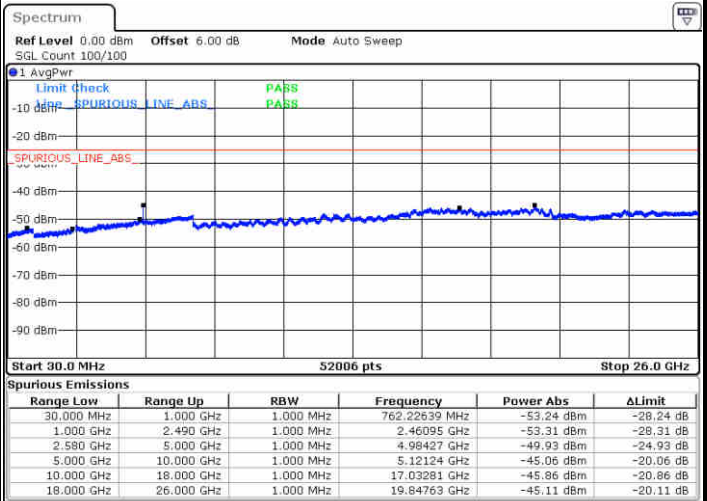
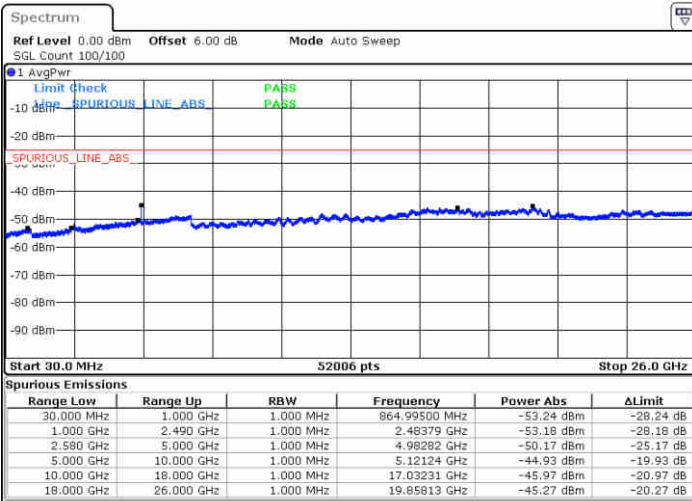


Date: 26 JUN 2020 05:56:30

Date: 26 JUN 2020 05:55:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 JUN 2020 05:57:24

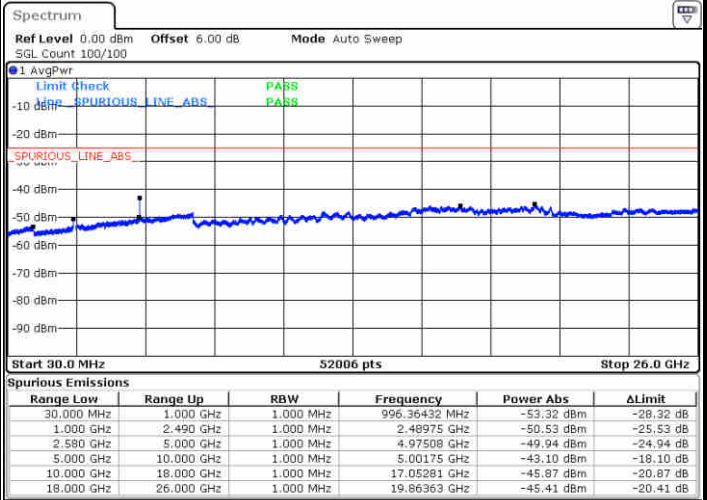
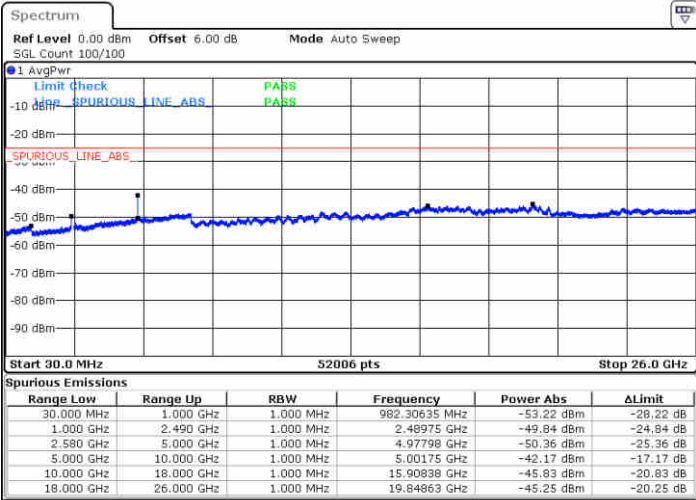
Date: 26 JUN 2020 05:58:17



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

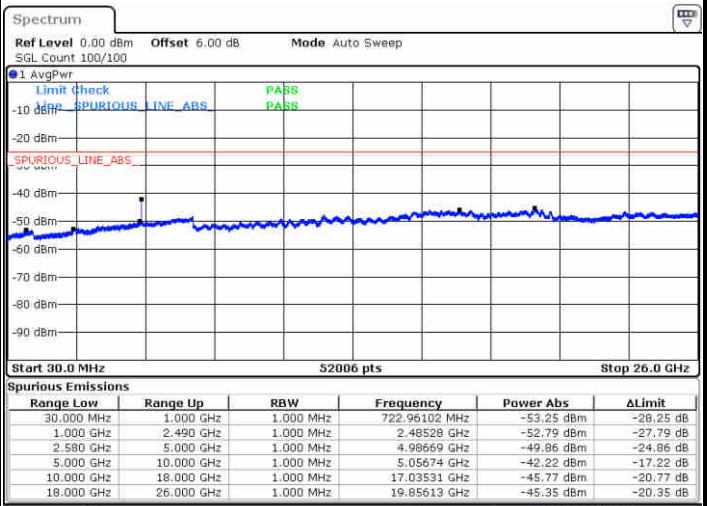
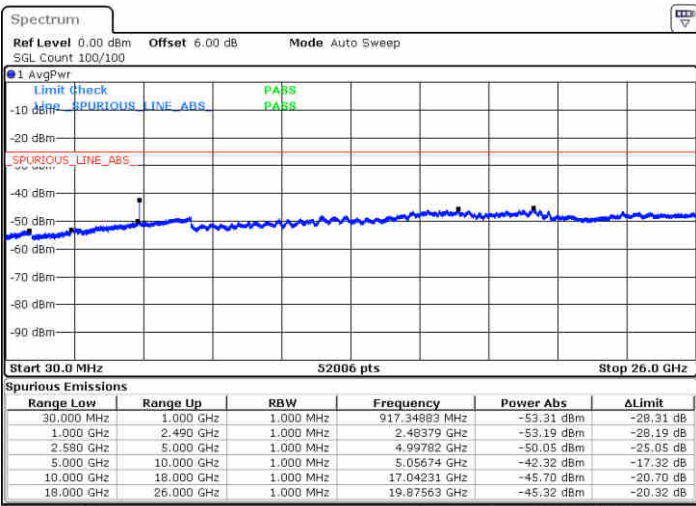


Date: 26 JUN 2020 06:10:17

Date: 26 JUN 2020 06:11:11

Middle Channel / QPSK

Middle Channel / 16QAM



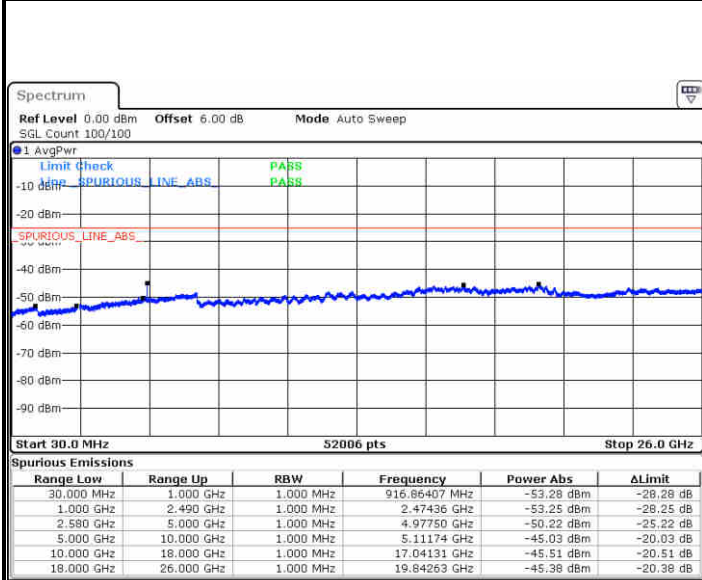
Date: 26 JUN 2020 06:12:59

Date: 26 JUN 2020 06:12:05



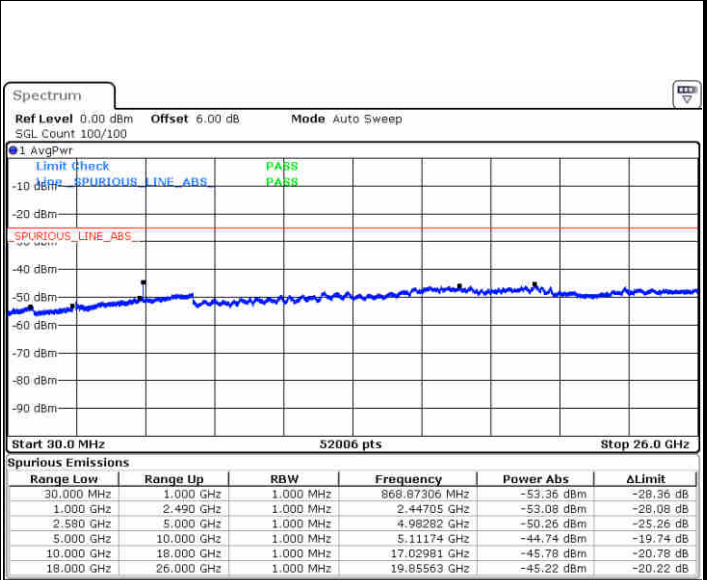
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 26 JUN 2020 06:13:52

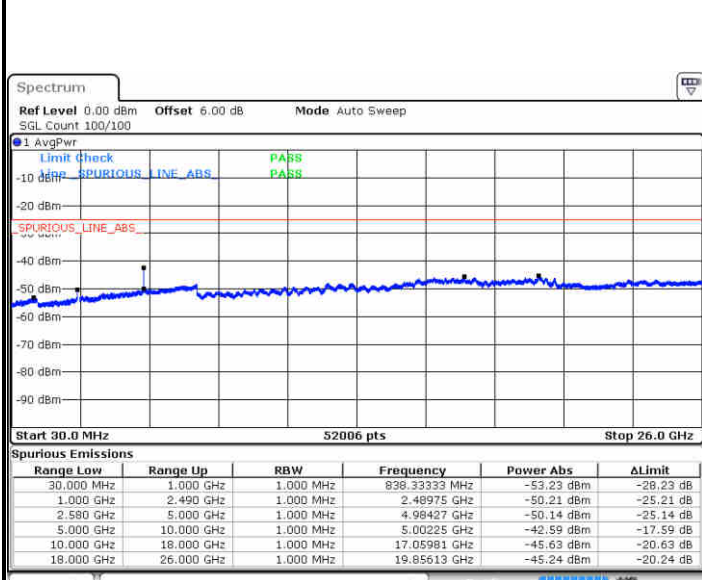
Highest Channel / 16QAM



Date: 26 JUN 2020 06:14:46

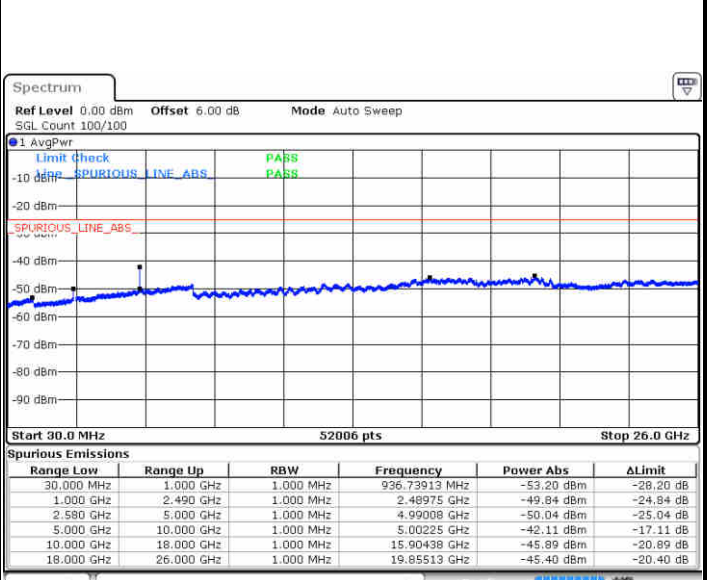
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 26 JUN 2020 06:26:46

Lowest Channel / 16QAM



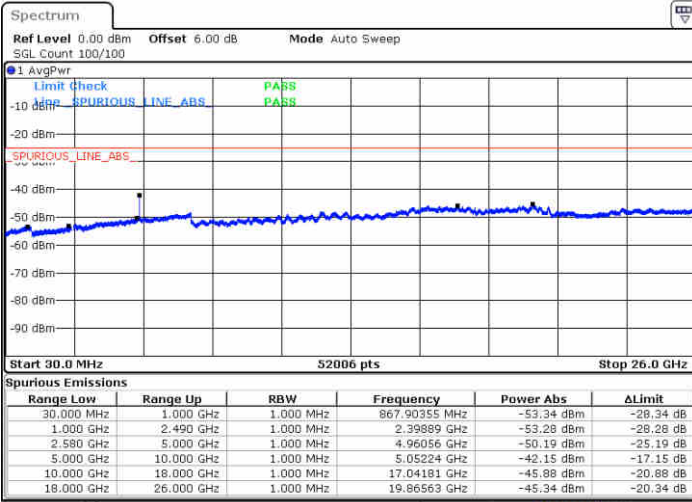
Date: 26 JUN 2020 06:27:39



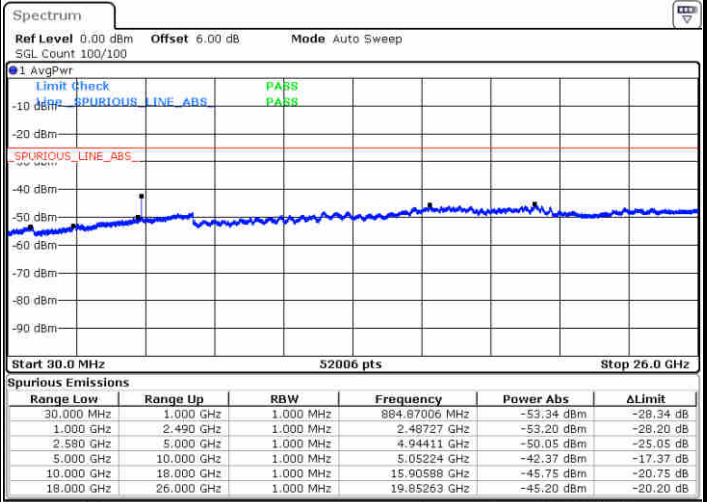
LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



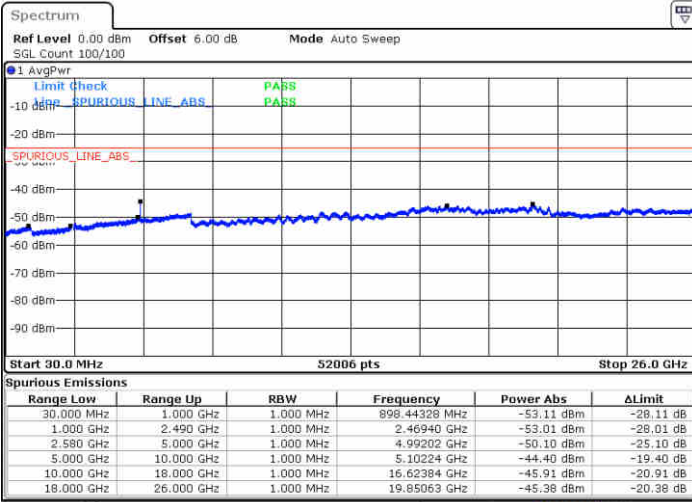
Date: 26 JUN 2020 06:29:27



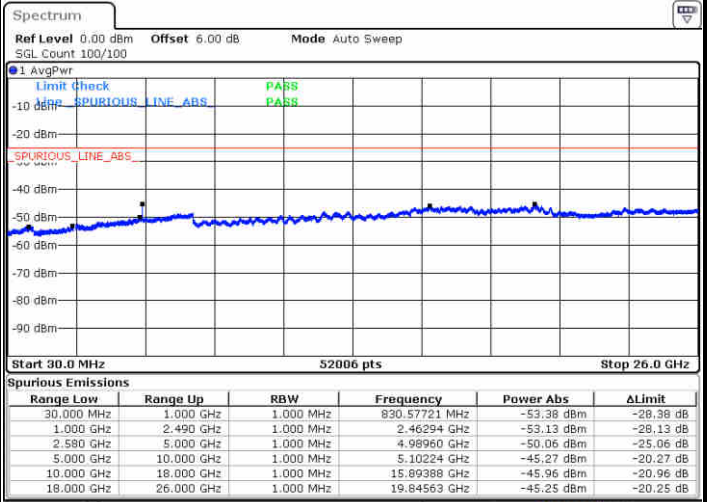
Date: 26 JUN 2020 06:28:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 JUN 2020 06:30:21



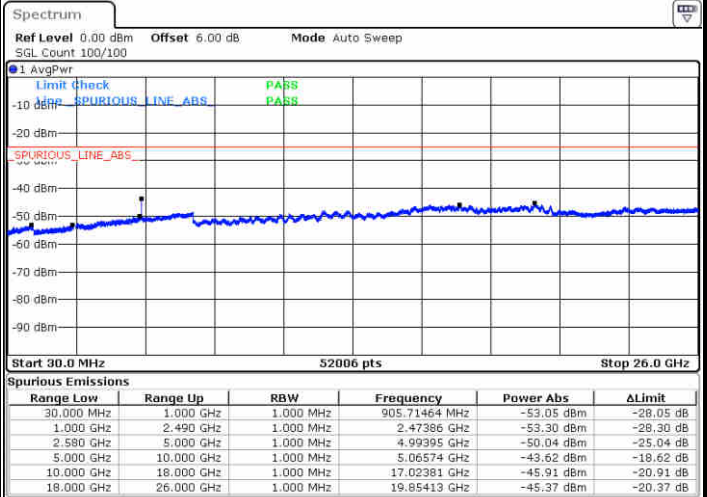
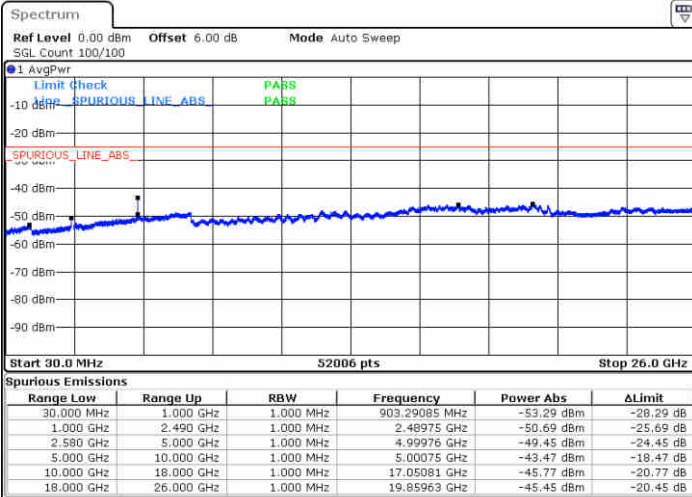
Date: 26 JUN 2020 06:31:15



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

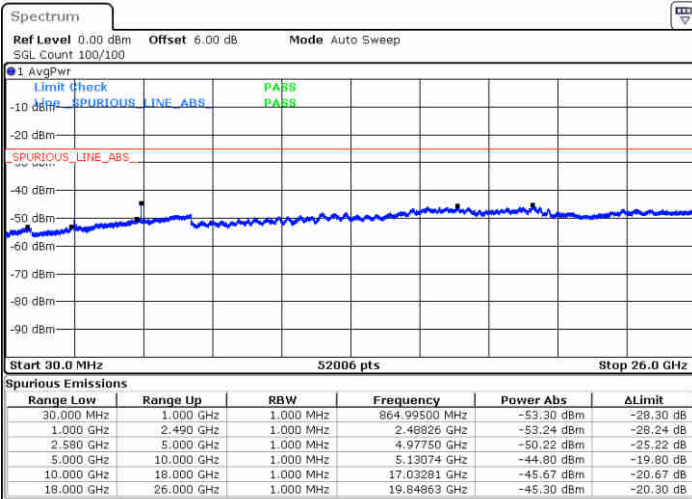
Middle Channel / 64QAM



Date: 26 JUN 2020 06:33:09

Date: 26 JUN 2020 06:34:02

Highest Channel / 64QAM



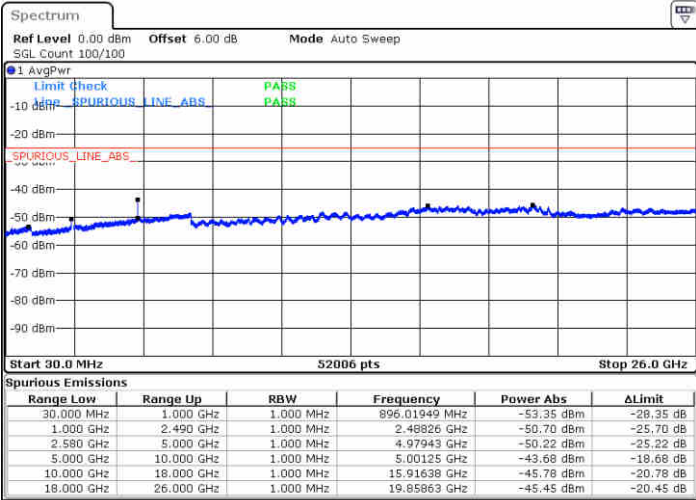
Date: 26 JUN 2020 06:34:56



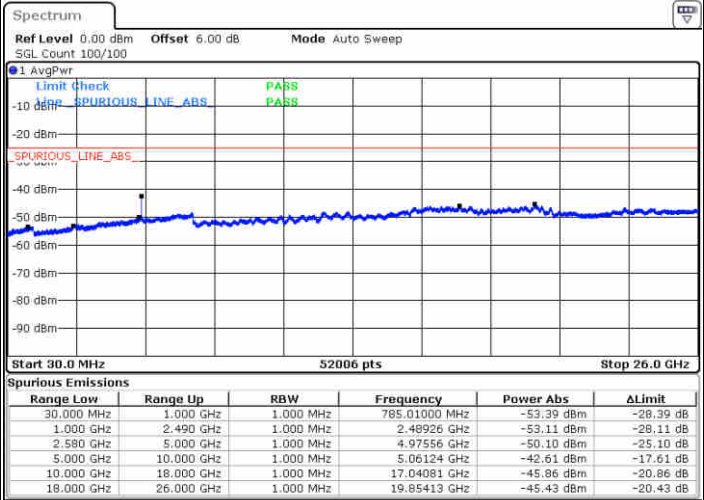
LTE Band 7 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

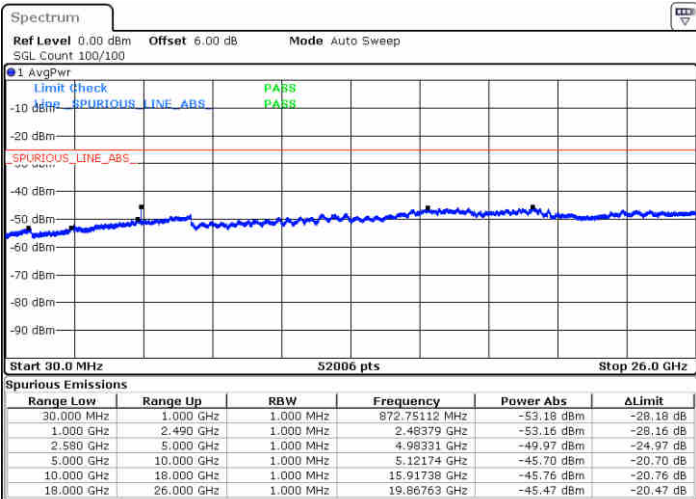


Date: 26 JUN 2020 06:41:23

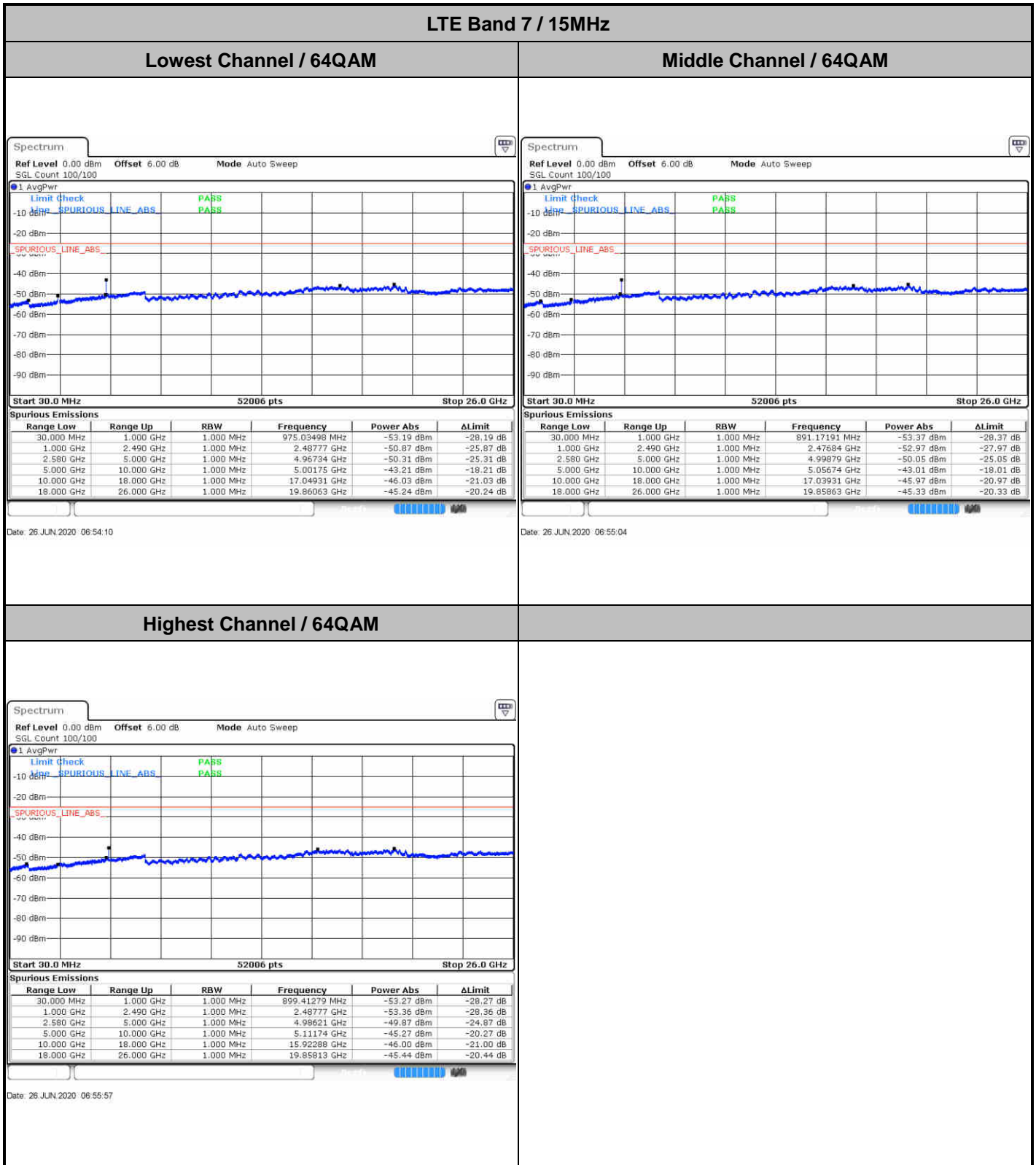


Date: 26 JUN 2020 06:42:17

Highest Channel / 64QAM



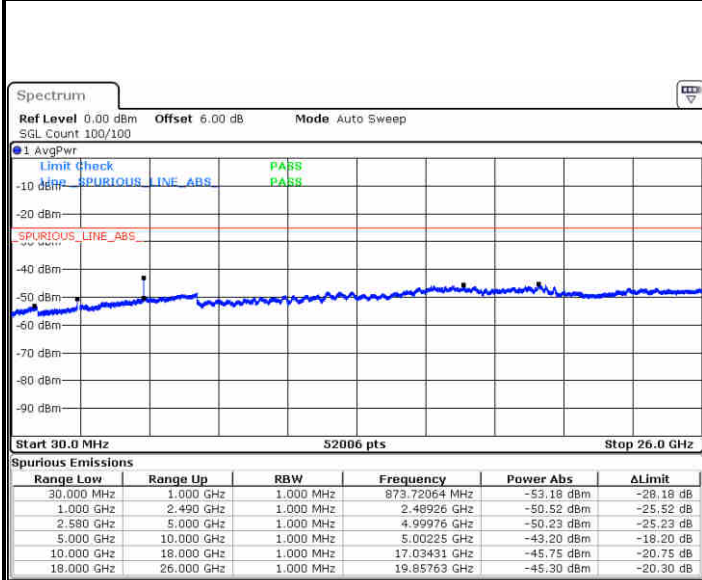
Date: 26 JUN 2020 06:43:11





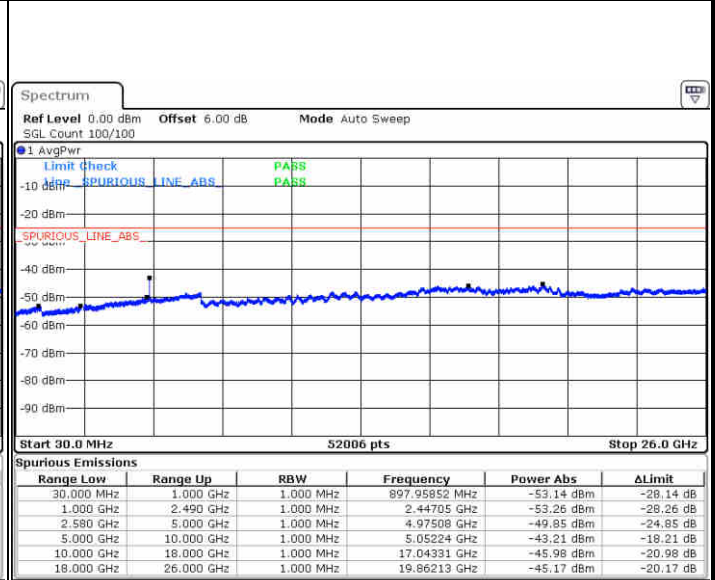
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



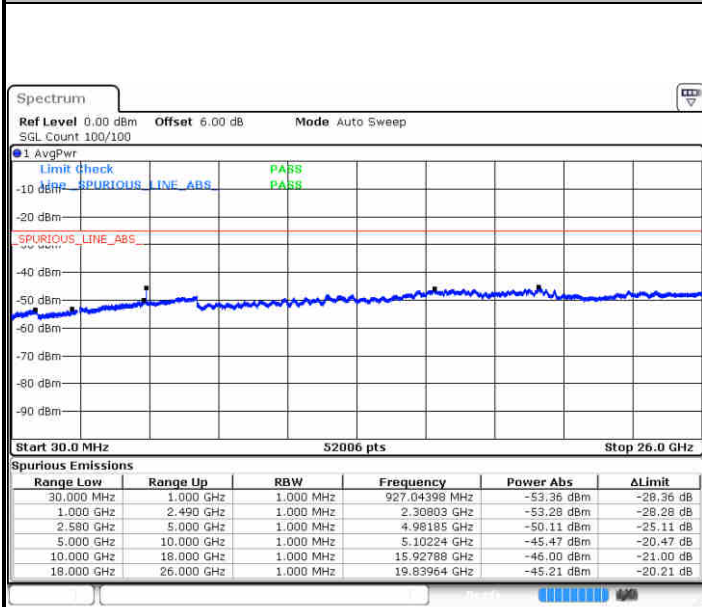
Date: 26 JUN 2020 07:02:24

Middle Channel / 64QAM



Date: 26 JUN 2020 07:03:18

Highest Channel / 64QAM



Date: 26 JUN 2020 07:04:12



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0065	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

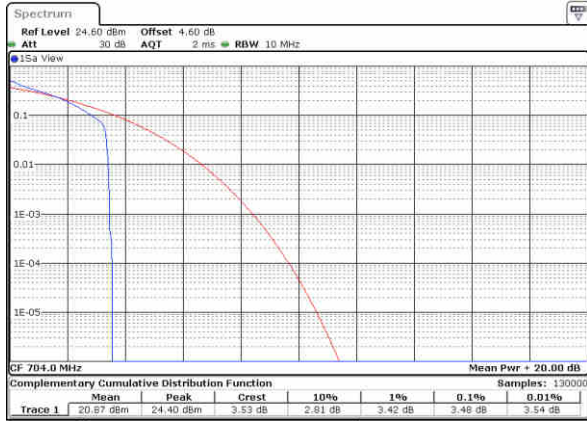
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.61	4.93	5.62	PASS
Middle CH	3.62	4.70	5.28	5.68	
Highest CH	3.39	4.78	4.43	5.74	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.01	5.62	-	-	PASS
Middle CH	5.19	5.68	-	-	
Highest CH	4.52	5.68	-	-	



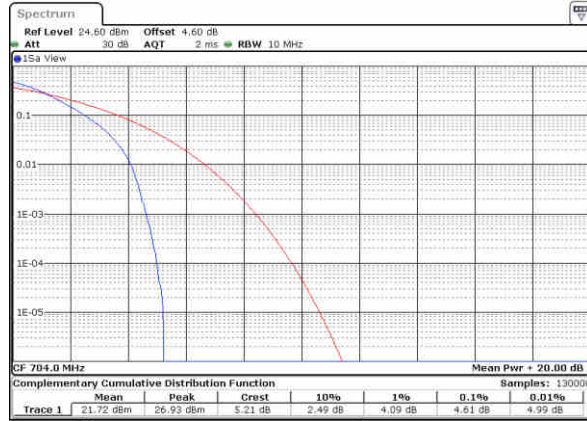
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 26 JUN 2020 04 04:23

Lowest Channel / Full RB



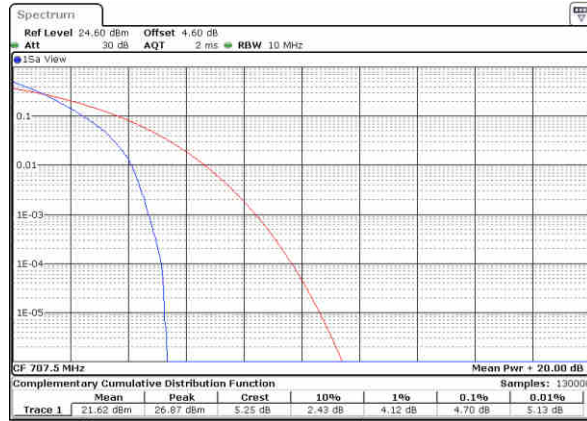
Date: 26 JUN 2020 04 05:28

Middle Channel / 1RB



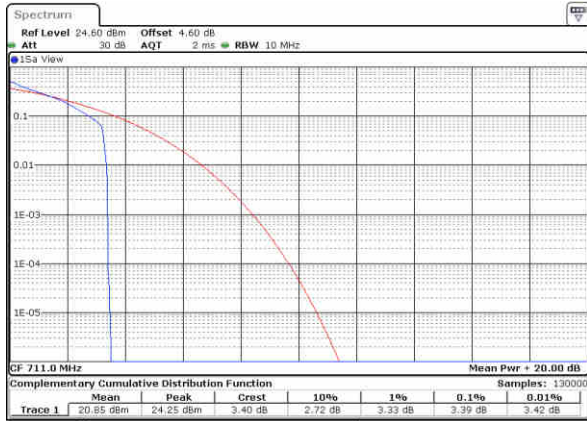
Date: 26 JUN 2020 04 05:19

Middle Channel / Full RB



Date: 26 JUN 2020 04 05:06

Highest Channel / 1RB



Date: 26 JUN 2020 04 05:48

Highest Channel / Full RB



Date: 26 JUN 2020 04 05:58



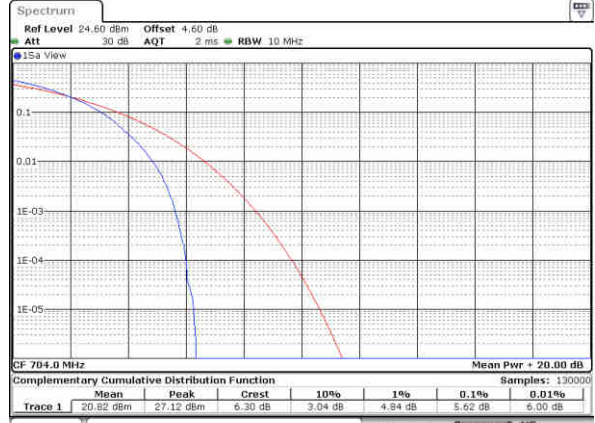
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 26 JUN 2020 04 04 13

Lowest Channel / Full RB



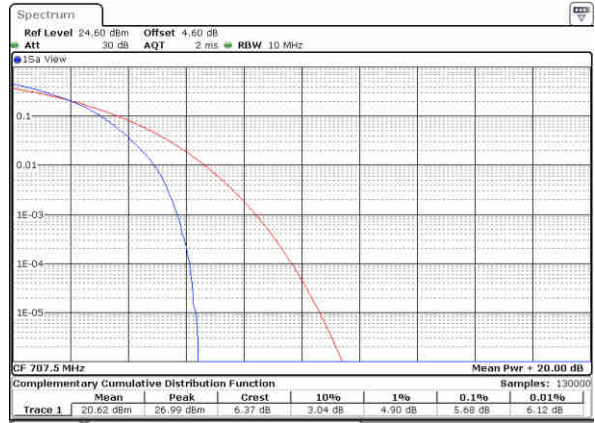
Date: 26 JUN 2020 04 04 41

Middle Channel / 1RB



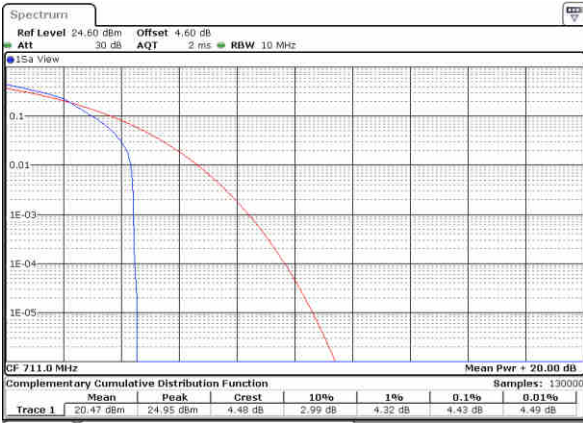
Date: 26 JUN 2020 04 05 29

Middle Channel / Full RB



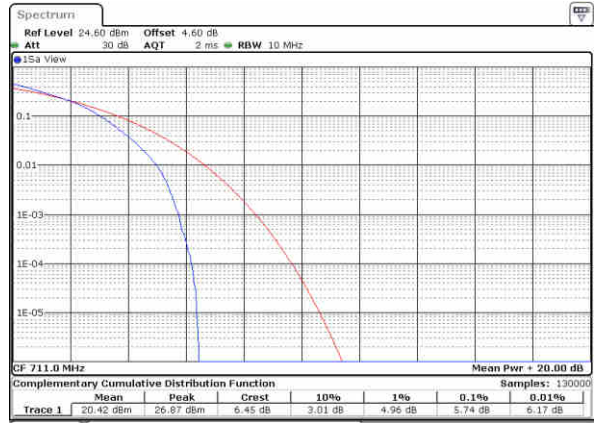
Date: 26 JUN 2020 04 04 53

Highest Channel / 1RB



Date: 26 JUN 2020 04 05 39

Highest Channel / Full RB



Date: 26 JUN 2020 04 05 07



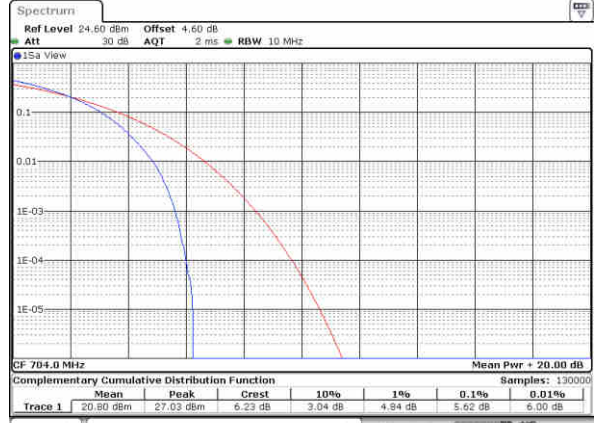
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



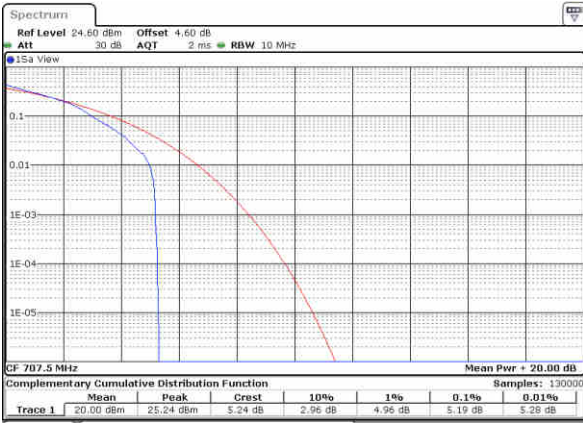
Date: 26 JUN 2020 04 03 09

Lowest Channel / Full RB



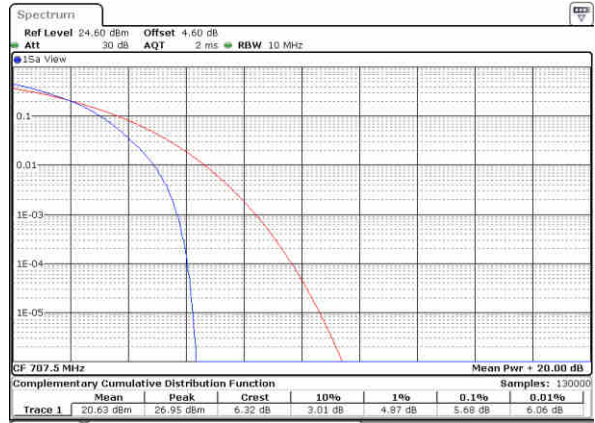
Date: 26 JUN 2020 04 03 19

Middle Channel / 1RB



Date: 26 JUN 2020 04 03 40

Middle Channel / Full RB



Date: 26 JUN 2020 04 03 31

Highest Channel / 1RB



Date: 26 JUN 2020 04 03 50

Highest Channel / Full RB



Date: 26 JUN 2020 04 04 01



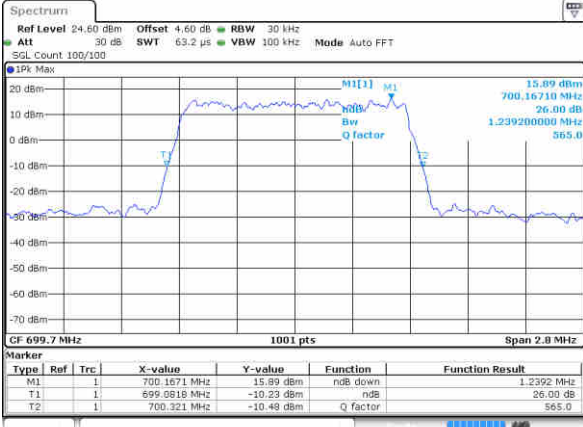
26dB Bandwidth

Mode	LTE Band 12 : 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	1.24	1.22	2.98	3.06	4.86	4.98	9.77	9.67	-	-	-	-
Middle CH	1.23	1.23	2.99	3.02	4.87	4.85	9.65	9.79	-	-	-	-
Highest CH	1.23	1.24	3.05	3.07	4.81	4.94	9.77	9.83	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.01	-	4.89	-	9.67	-	-	-	-	-
Middle CH	1.22	-	2.97	-	4.93	-	9.71	-	-	-	-	-
Highest CH	1.24	-	2.97	-	4.84	-	9.87	-	-	-	-	-



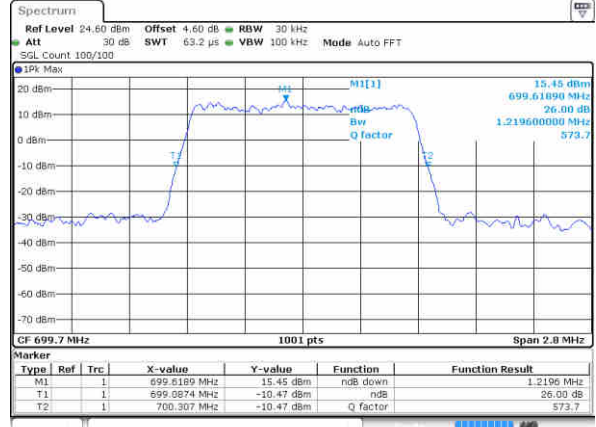
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



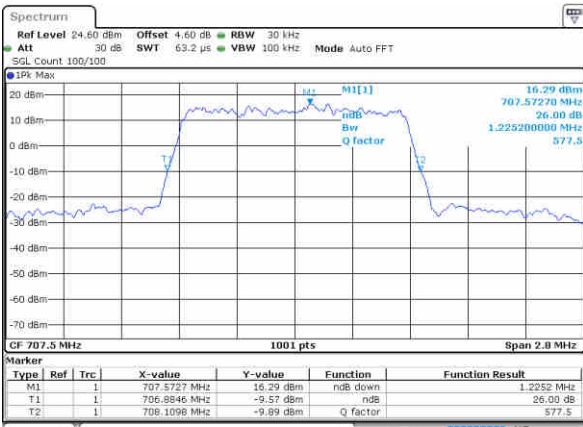
Date: 26 JUN 2020 02:24:10

Lowest Channel / 1.4MHz / 16QAM



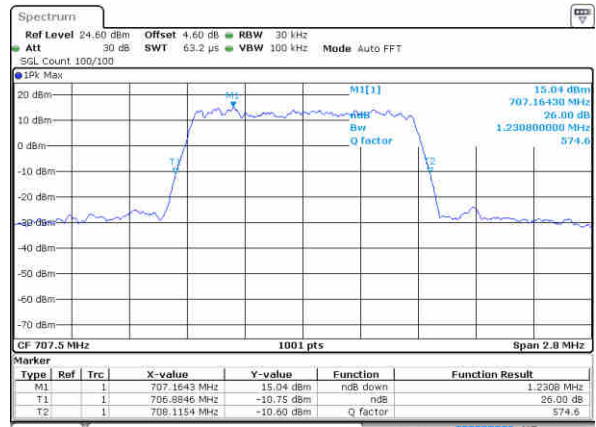
Date: 26 JUN 2020 02:24:00

Middle Channel / 1.4MHz / QPSK



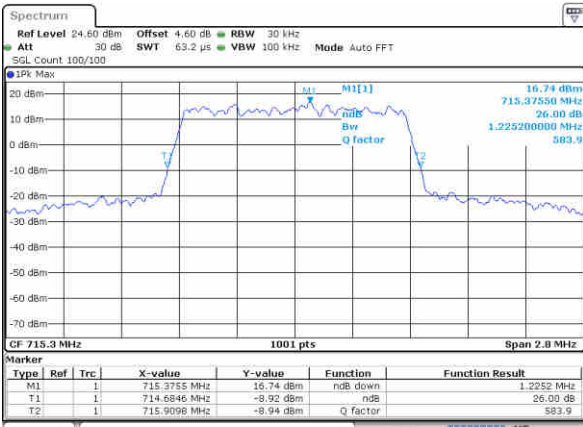
Date: 26 JUN 2020 02:23:40

Middle Channel / 1.4MHz / 16QAM



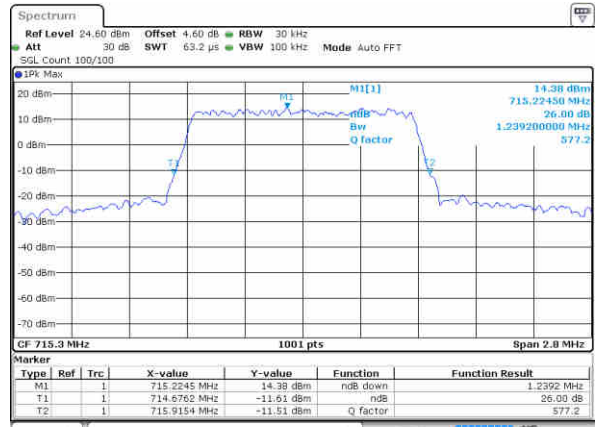
Date: 26 JUN 2020 02:23:50

Highest Channel / 1.4MHz / QPSK



Date: 26 JUN 2020 02:23:30

Highest Channel / 1.4MHz / 16QAM

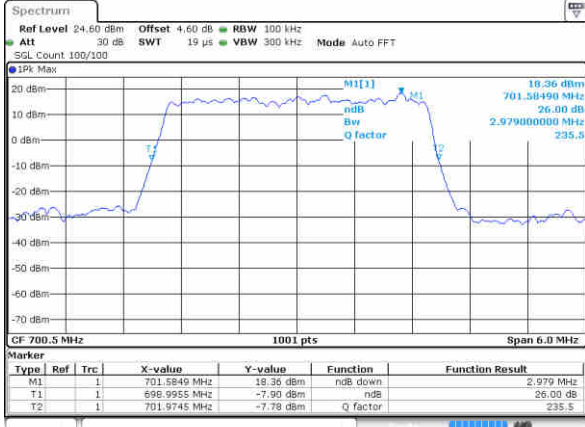


Date: 26 JUN 2020 02:23:20



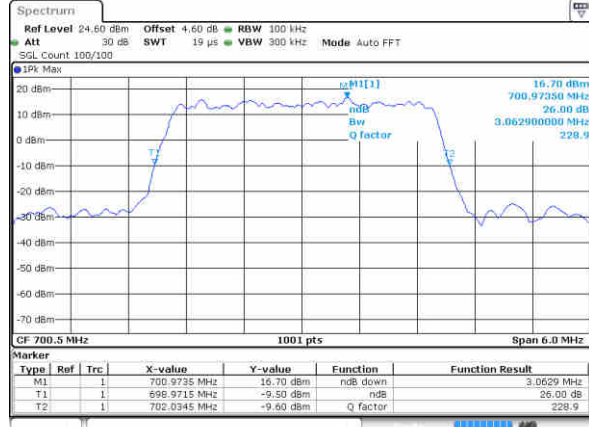
LTE Band 12

Lowest Channel / 3MHz / QPSK



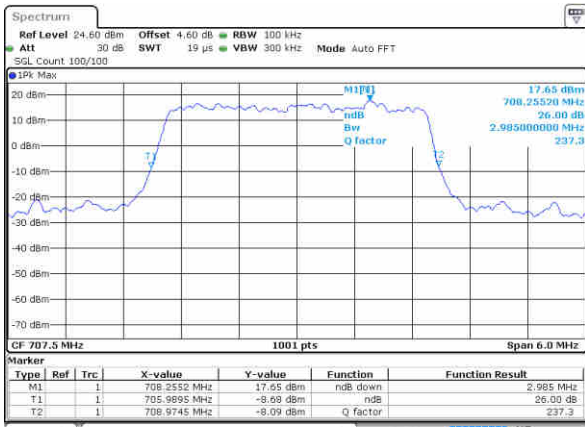
Date: 26 JUN 2020 02:39:41

Lowest Channel / 3MHz / 16QAM



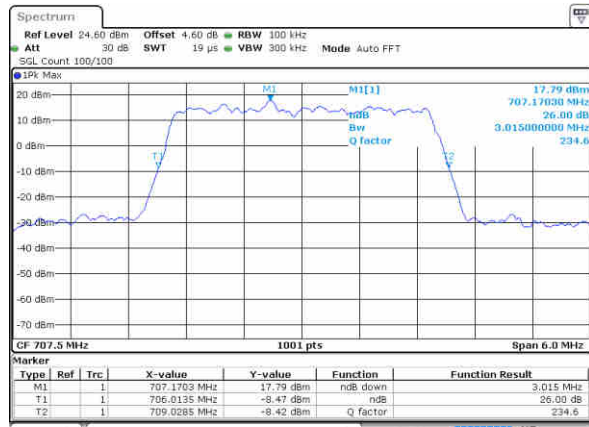
Date: 26 JUN 2020 02:39:31

Middle Channel / 3MHz / QPSK



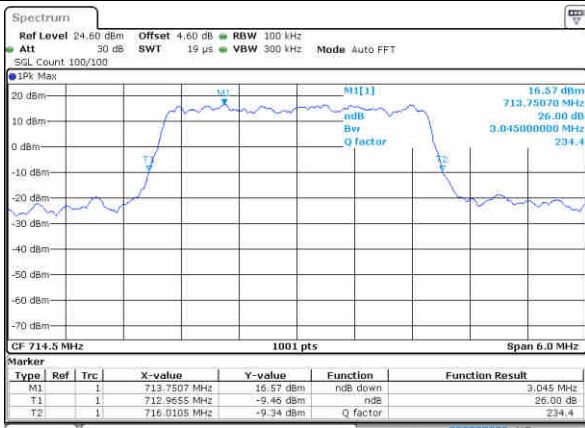
Date: 26 JUN 2020 02:39:11

Middle Channel / 3MHz / 16QAM



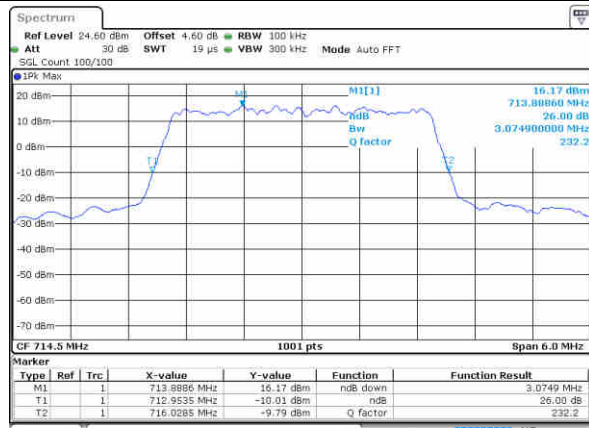
Date: 26 JUN 2020 02:39:21

Highest Channel / 3MHz / QPSK



Date: 26 JUN 2020 02:39:01

Highest Channel / 3MHz / 16QAM

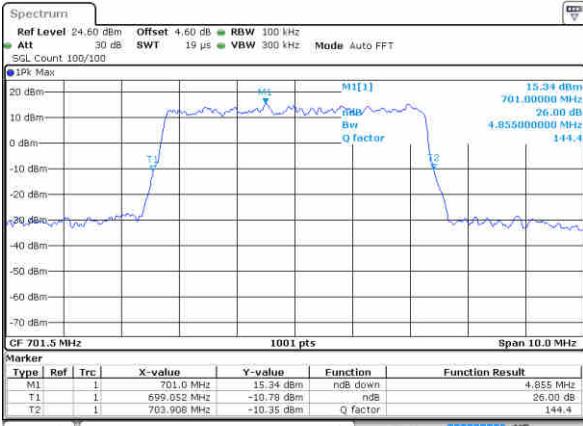


Date: 26 JUN 2020 02:38:51



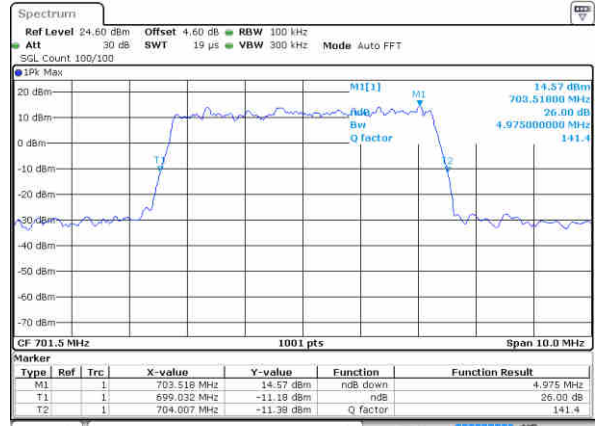
LTE Band 12

Lowest Channel / 5MHz / QPSK



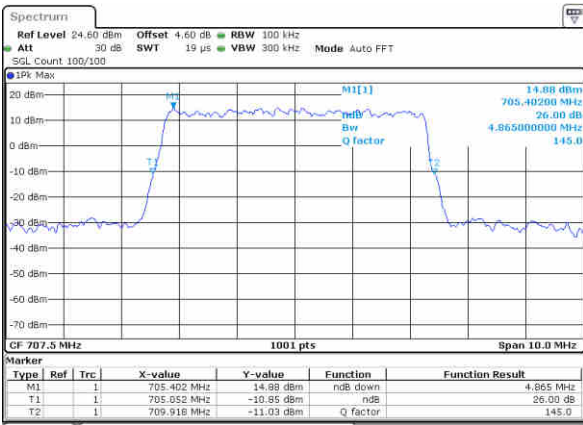
Date: 26 JUN 2020 02:55:06

Lowest Channel / 5MHz / 16QAM



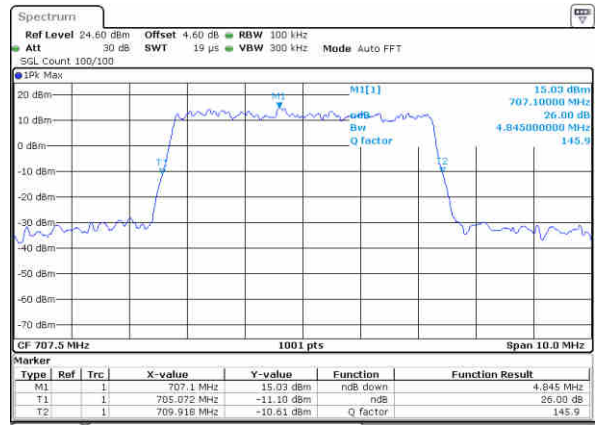
Date: 26 JUN 2020 02:55:56

Middle Channel / 5MHz / QPSK



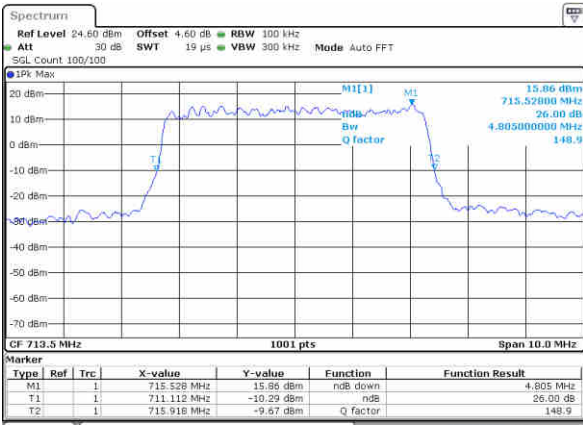
Date: 26 JUN 2020 02:55:36

Middle Channel / 5MHz / 16QAM



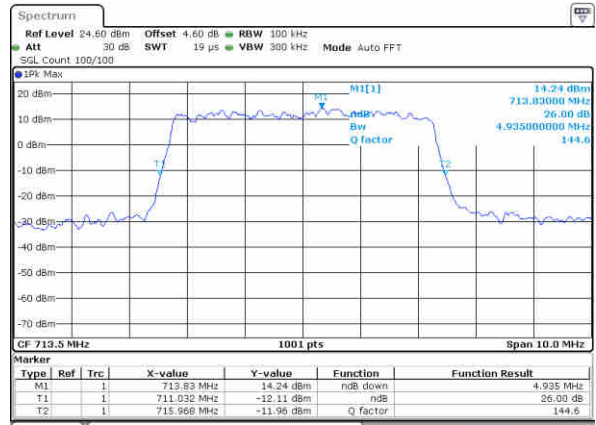
Date: 26 JUN 2020 02:55:46

Highest Channel / 5MHz / QPSK



Date: 26 JUN 2020 02:55:26

Highest Channel / 5MHz / 16QAM

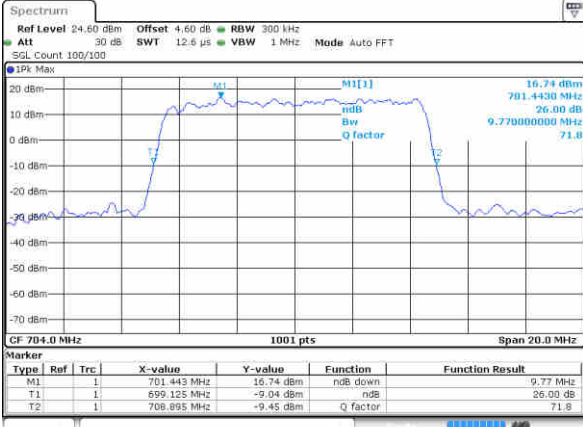


Date: 26 JUN 2020 02:55:18



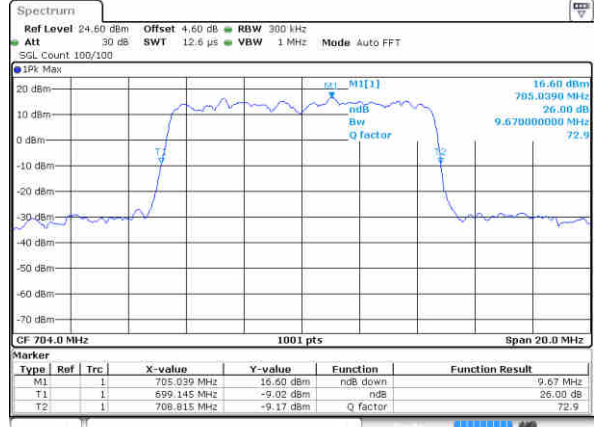
LTE Band 12

Lowest Channel / 10MHz / QPSK



Date: 26 JUN 2020 03:12:31

Lowest Channel / 10MHz / 16QAM



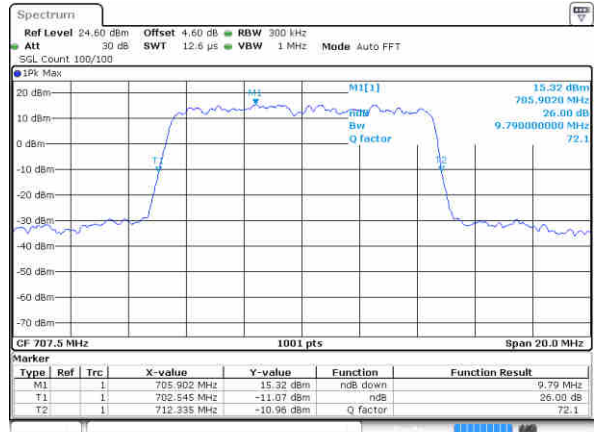
Date: 26 JUN 2020 03:12:21

Middle Channel / 10MHz / QPSK



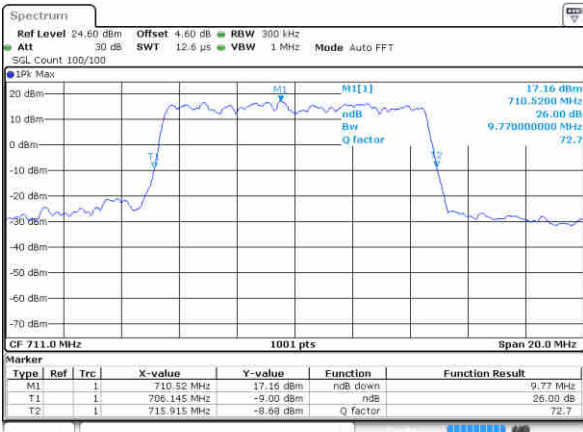
Date: 26 JUN 2020 03:12:01

Middle Channel / 10MHz / 16QAM



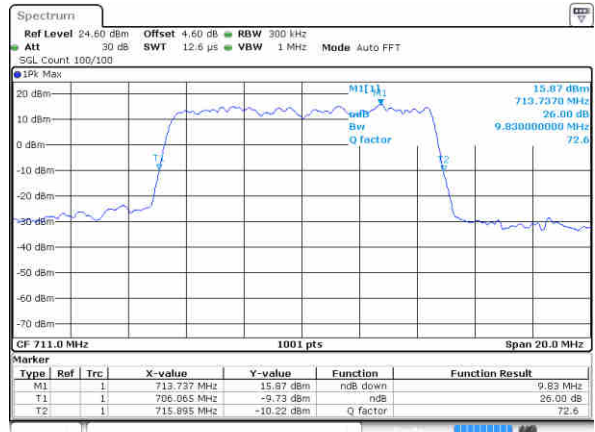
Date: 26 JUN 2020 03:12:11

Highest Channel / 10MHz / QPSK



Date: 26 JUN 2020 03:11:51

Highest Channel / 10MHz / 16QAM

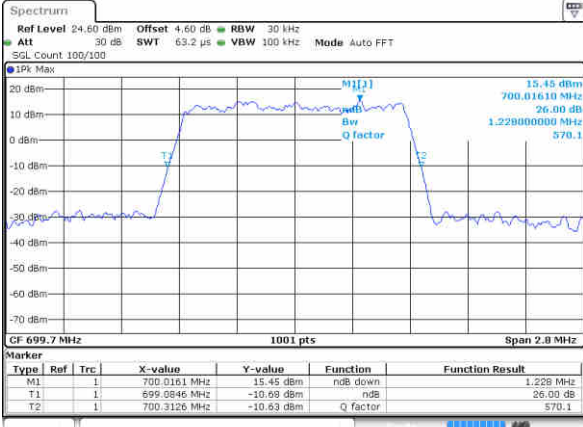


Date: 26 JUN 2020 03:11:41



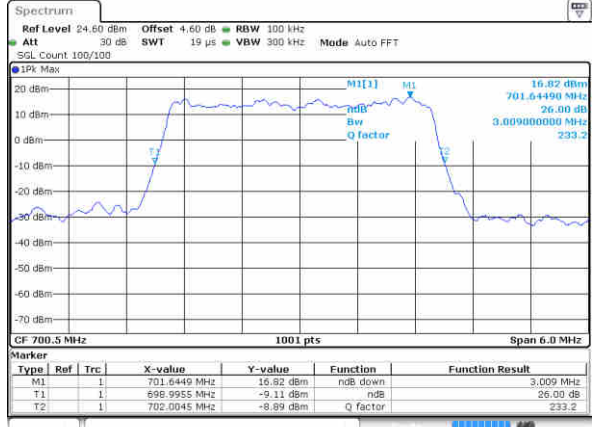
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



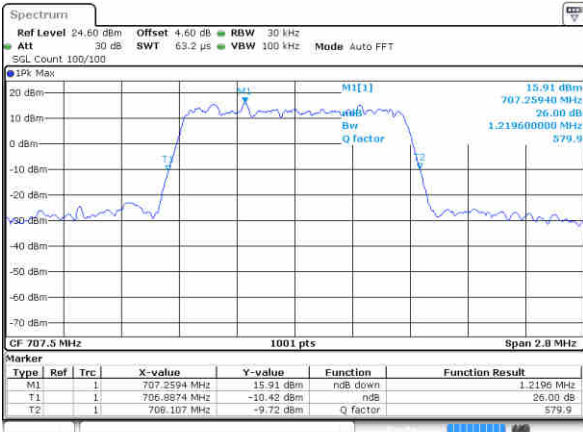
Date: 26 JUN 2020 03:27:16

Lowest Channel / 3MHz / 64QAM



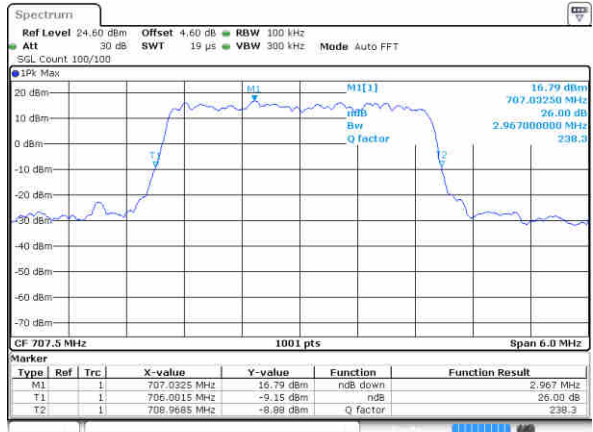
Date: 26 JUN 2020 03:38:12

Middle Channel / 1.4MHz / 64QAM



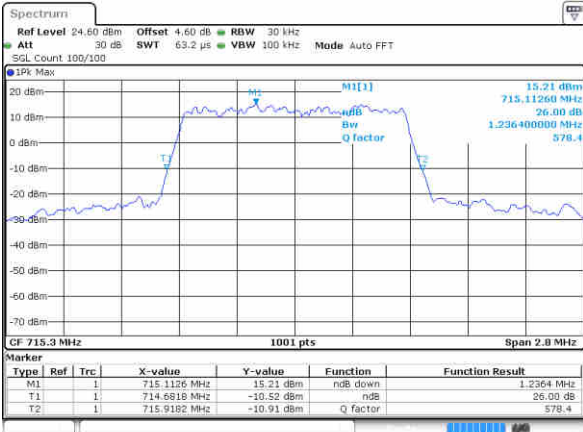
Date: 26 JUN 2020 03:27:36

Middle Channel / 3MHz / 64QAM



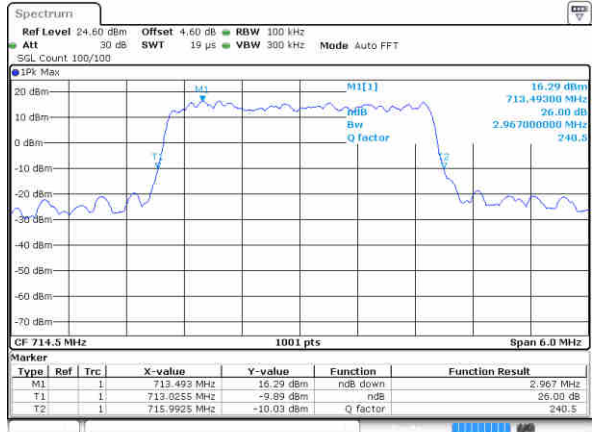
Date: 26 JUN 2020 03:38:32

Highest Channel / 1.4MHz / 64QAM



Date: 26 JUN 2020 03:27:56

Highest Channel / 3MHz / 64QAM

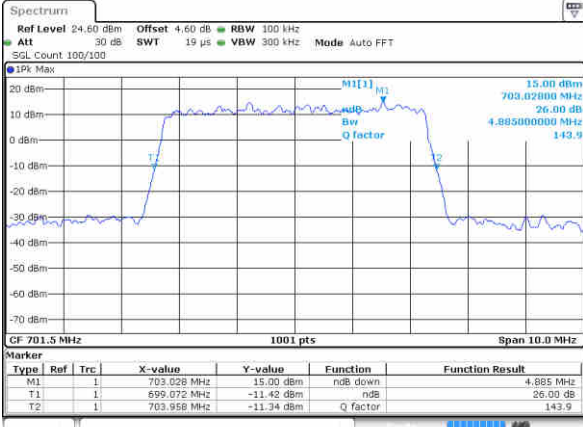


Date: 26 JUN 2020 03:38:52



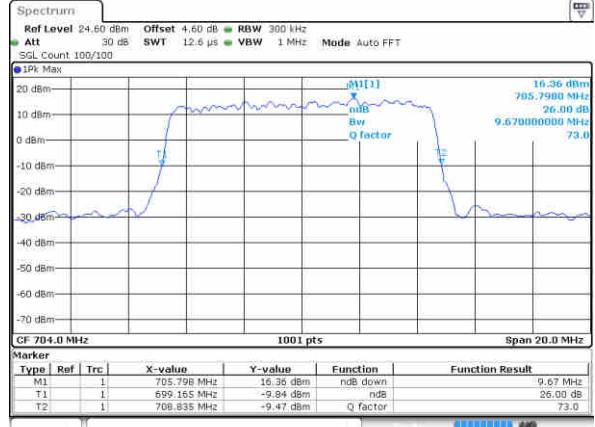
LTE Band 12

Lowest Channel / 5MHz / 64QAM



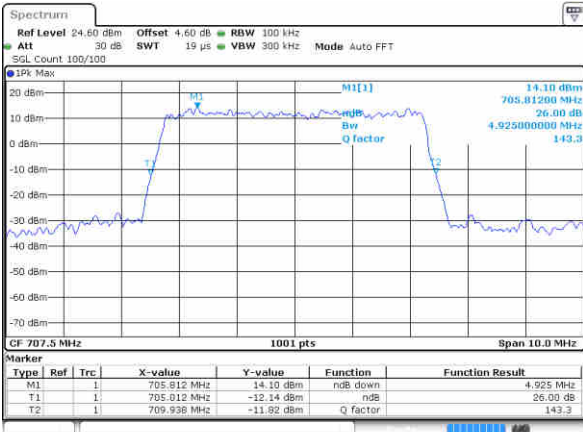
Date: 26 JUN 2020 03:43:41

Lowest Channel / 10MHz / 64QAM



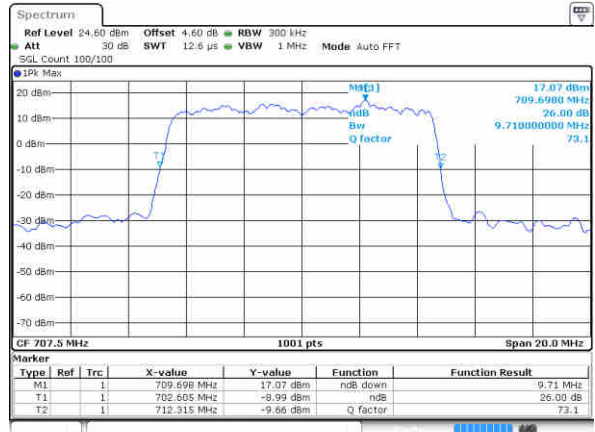
Date: 26 JUN 2020 03:54:37

Middle Channel / 5MHz / 64QAM



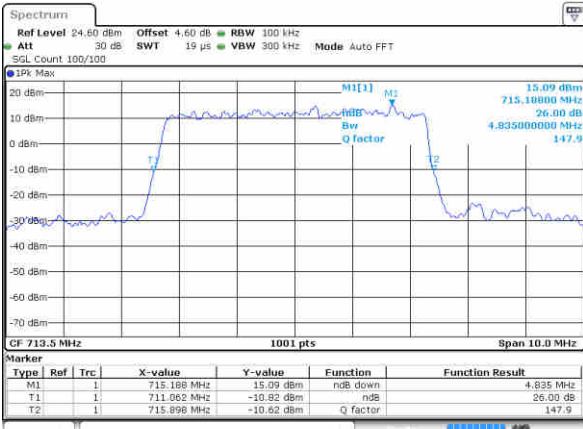
Date: 26 JUN 2020 03:44:01

Middle Channel / 10MHz / 64QAM



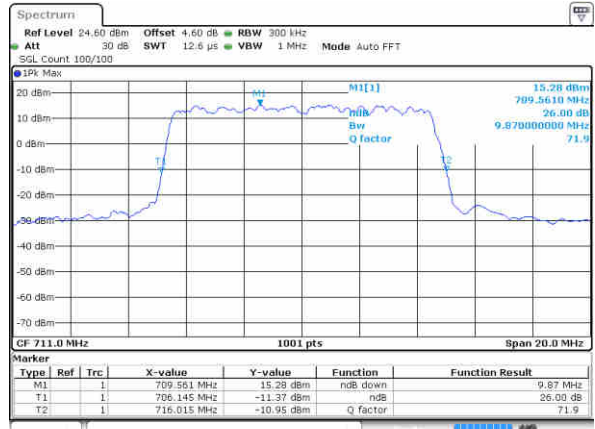
Date: 26 JUN 2020 03:54:57

Highest Channel / 5MHz / 64QAM



Date: 26 JUN 2020 03:44:21

Highest Channel / 10MHz / 64QAM



Date: 26 JUN 2020 03:55:17



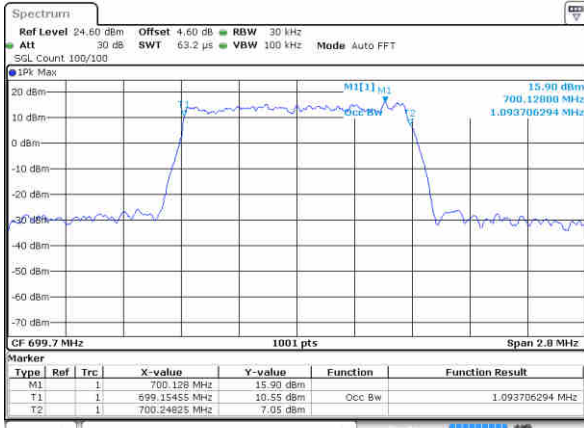
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.71	4.47	4.50	8.97	9.01	-	-	-	-
Middle CH	1.10	1.09	2.75	2.72	4.50	4.48	9.05	8.97	-	-	-	-
Highest CH	1.09	1.09	2.73	2.72	4.50	4.47	8.99	8.95	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.47	-	9.03	-	-	-	-	-
Middle CH	1.09	-	2.72	-	4.48	-	8.97	-	-	-	-	-
Highest CH	1.09	-	2.74	-	4.49	-	9.03	-	-	-	-	-



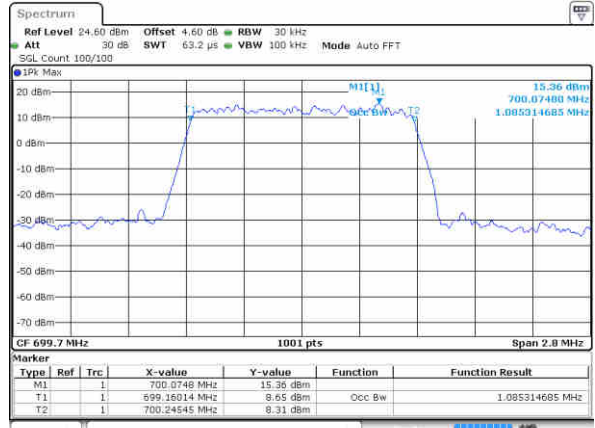
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



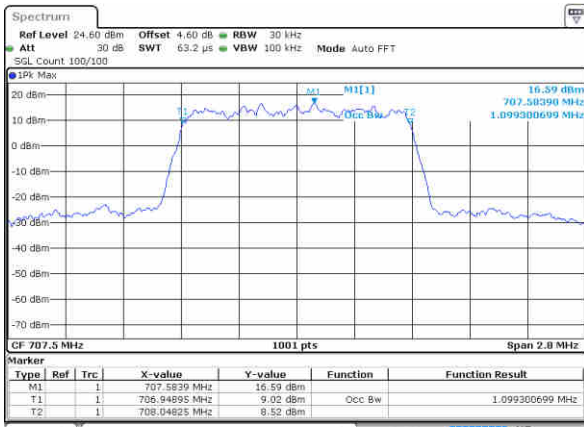
Date: 26 JUN 2020 02:22:19

Lowest Channel / 1.4MHz / 16QAM



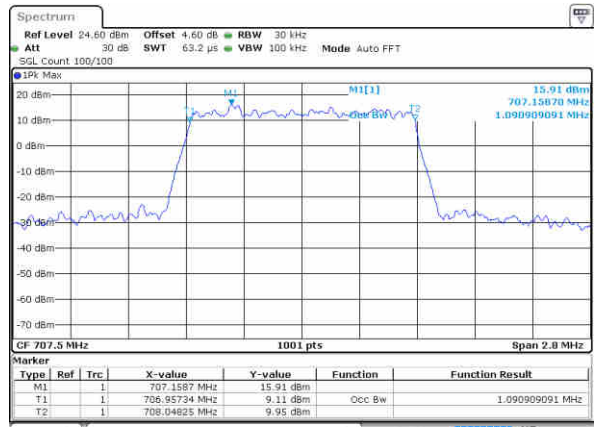
Date: 26 JUN 2020 02:22:30

Middle Channel / 1.4MHz / QPSK



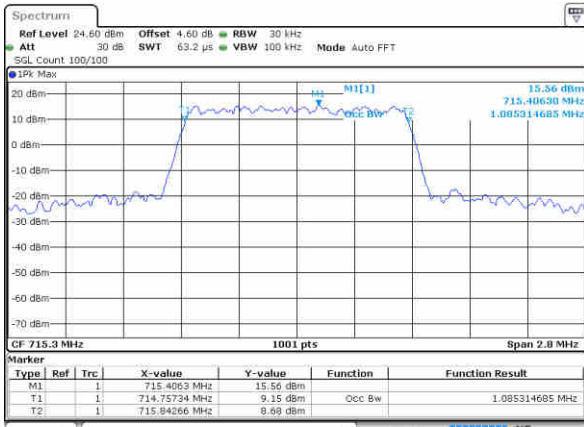
Date: 26 JUN 2020 02:22:50

Middle Channel / 1.4MHz / 16QAM



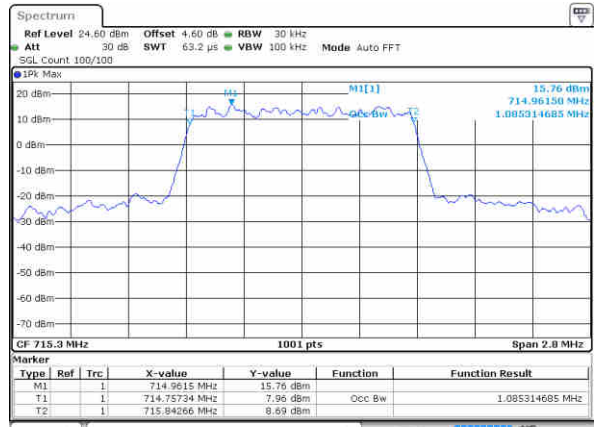
Date: 26 JUN 2020 02:22:40

Highest Channel / 1.4MHz / QPSK



Date: 26 JUN 2020 02:23:00

Highest Channel / 1.4MHz / 16QAM

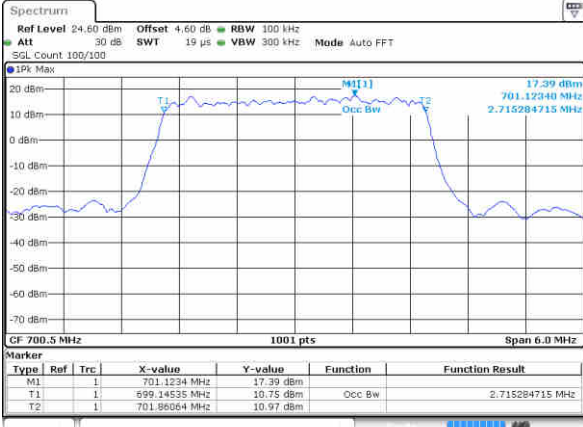


Date: 26 JUN 2020 02:23:10



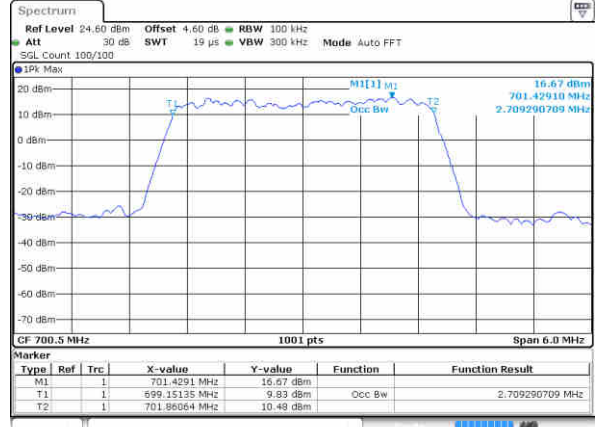
LTE Band 12

Lowest Channel / 3MHz / QPSK



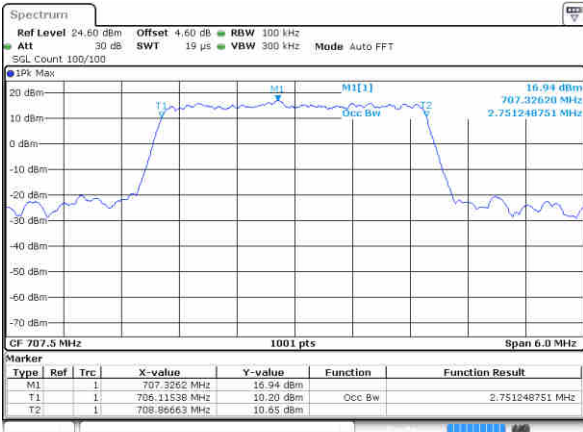
Date: 26 JUN 2020 02:37:51

Lowest Channel / 3MHz / 16QAM



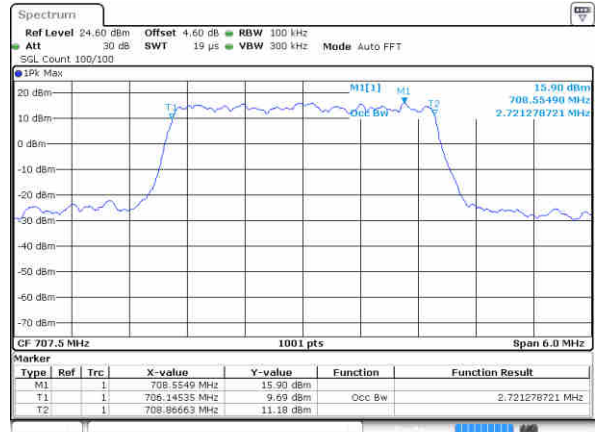
Date: 26 JUN 2020 02:38:01

Middle Channel / 3MHz / QPSK



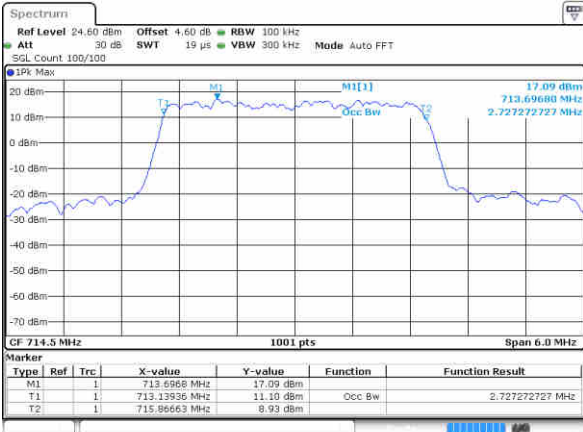
Date: 26 JUN 2020 02:38:21

Middle Channel / 3MHz / 16QAM



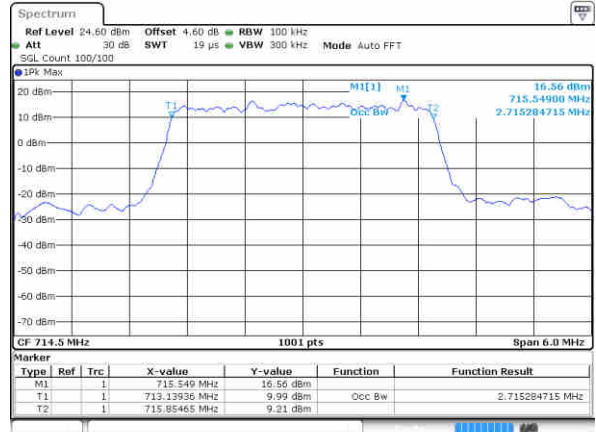
Date: 26 JUN 2020 02:38:11

Highest Channel / 3MHz / QPSK



Date: 26 JUN 2020 02:38:31

Highest Channel / 3MHz / 16QAM

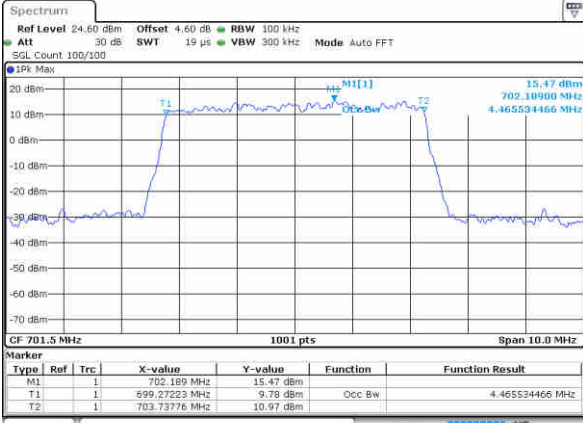


Date: 26 JUN 2020 02:38:41



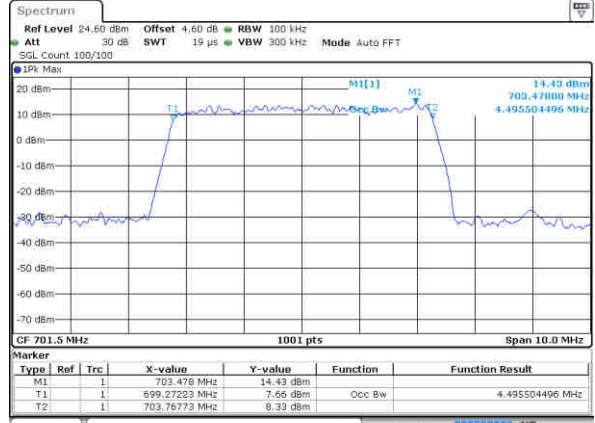
LTE Band 12

Lowest Channel / 5MHz / QPSK



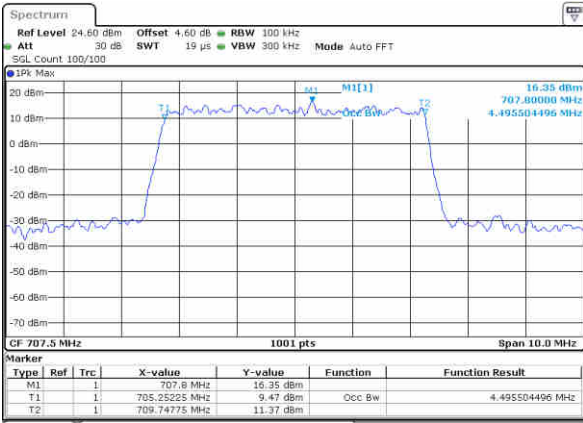
Date: 26 JUN 2020 02:54:19

Lowest Channel / 5MHz / 16QAM



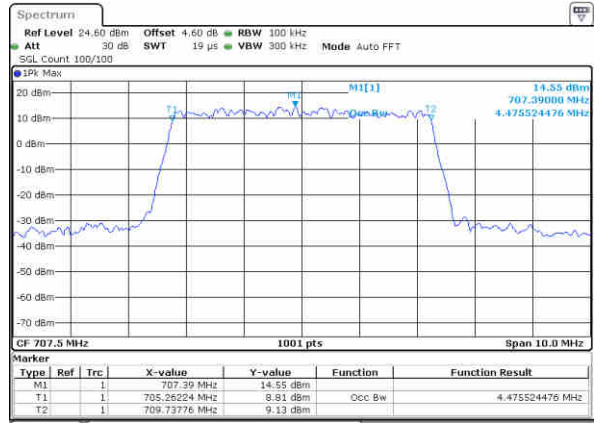
Date: 26 JUN 2020 02:54:26

Middle Channel / 5MHz / QPSK



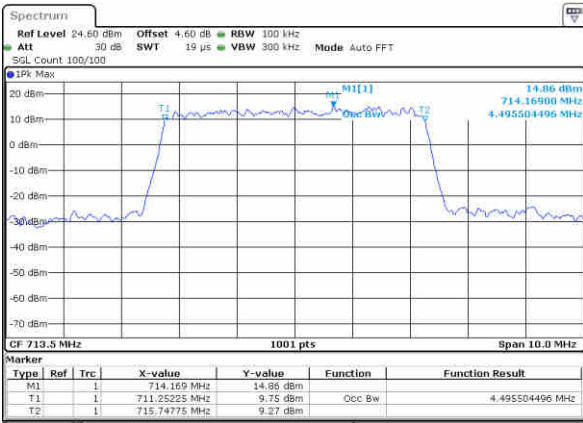
Date: 26 JUN 2020 02:54:46

Middle Channel / 5MHz / 16QAM



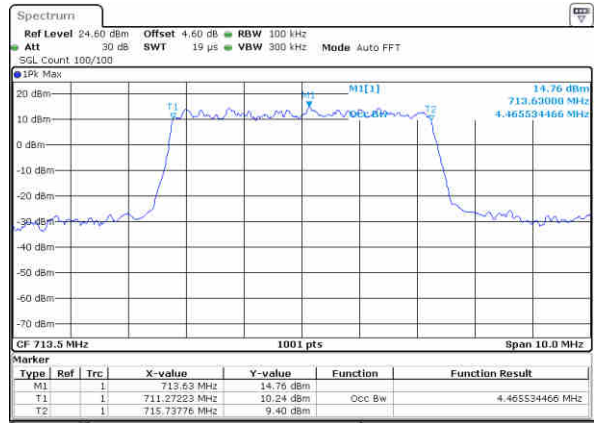
Date: 26 JUN 2020 02:54:36

Highest Channel / 5MHz / QPSK



Date: 26 JUN 2020 02:54:56

Highest Channel / 5MHz / 16QAM

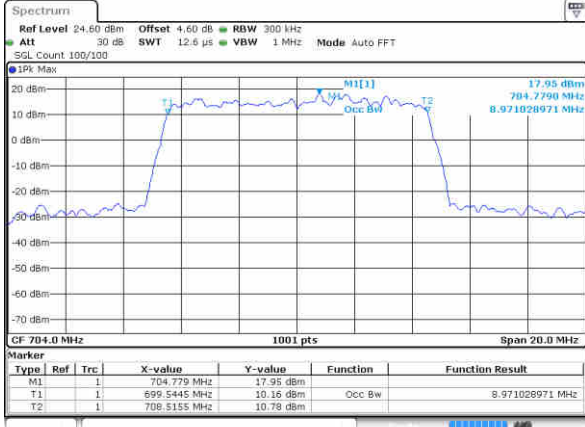


Date: 26 JUN 2020 02:55:06



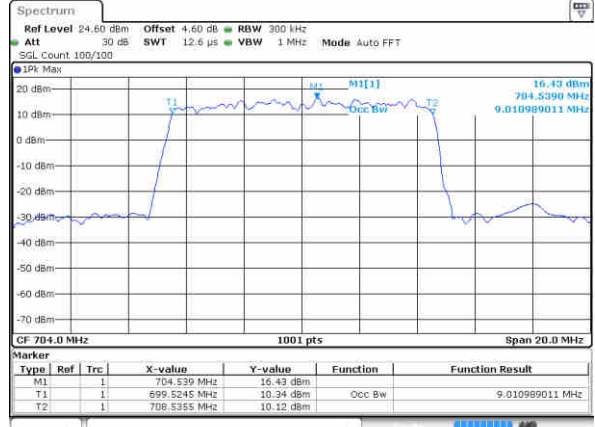
LTE Band 12

Lowest Channel / 10MHz / QPSK



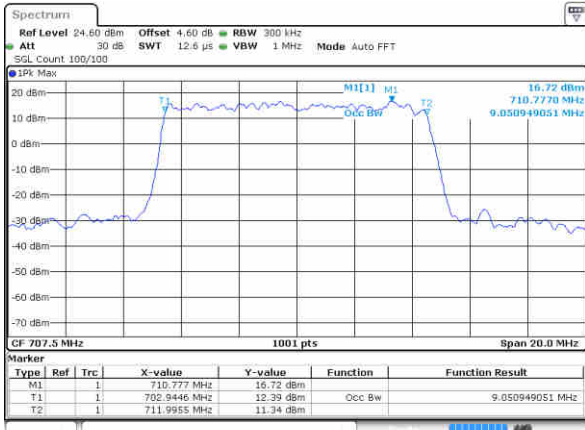
Date: 26 JUN 2020 03:10:41

Lowest Channel / 10MHz / 16QAM



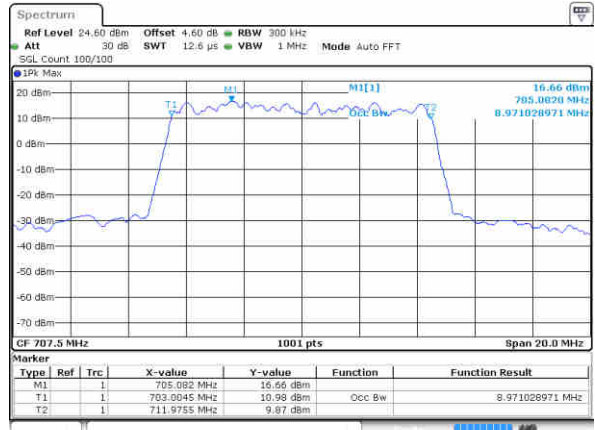
Date: 26 JUN 2020 03:10:51

Middle Channel / 10MHz / QPSK



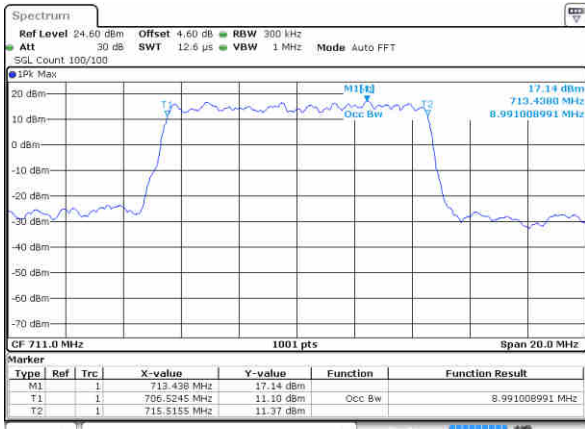
Date: 26 JUN 2020 03:11:11

Middle Channel / 10MHz / 16QAM



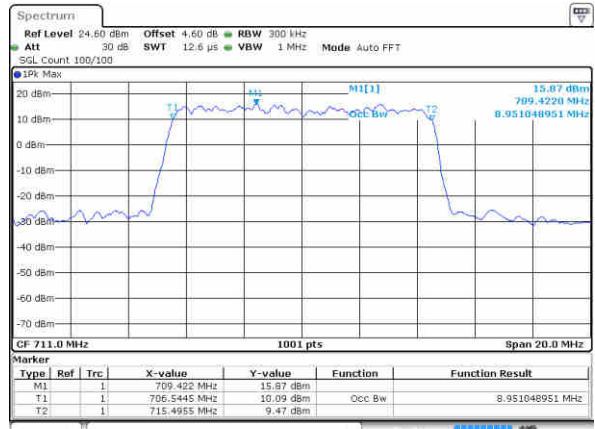
Date: 26 JUN 2020 03:11:01

Highest Channel / 10MHz / QPSK



Date: 26 JUN 2020 03:11:21

Highest Channel / 10MHz / 16QAM

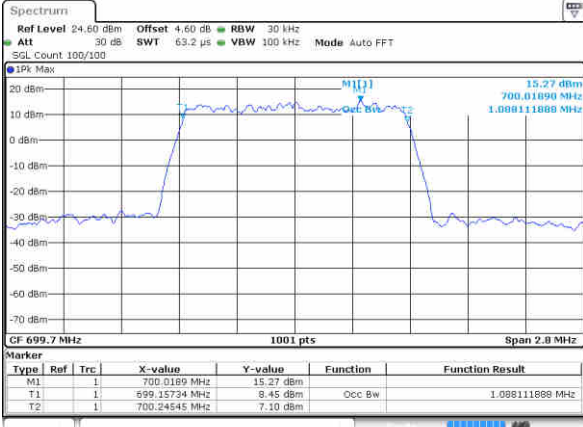


Date: 26 JUN 2020 03:11:31



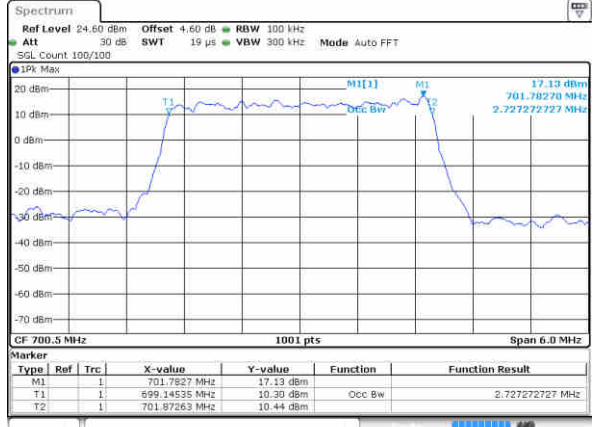
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



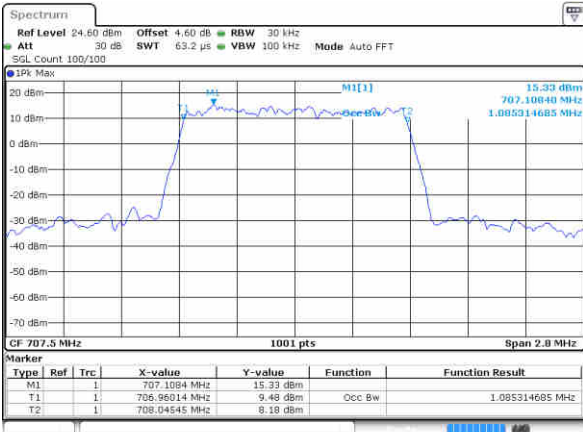
Date: 26 JUN 2020 03:27:06

Lowest Channel / 3MHz / 64QAM



Date: 26 JUN 2020 03:38:02

Middle Channel / 1.4MHz / 64QAM



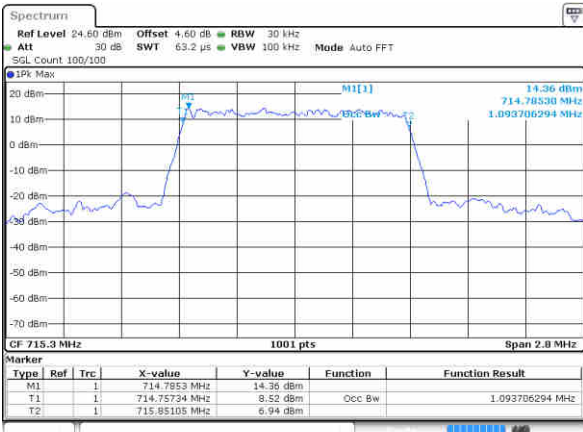
Date: 26 JUN 2020 03:27:26

Middle Channel / 3MHz / 64QAM



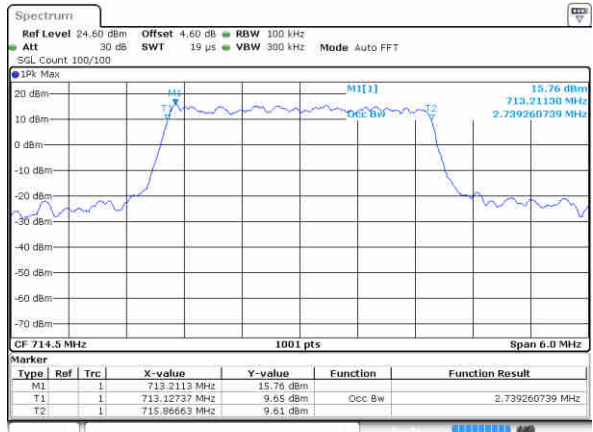
Date: 26 JUN 2020 03:38:22

Highest Channel / 1.4MHz / 64QAM



Date: 26 JUN 2020 03:27:46

Highest Channel / 3MHz / 64QAM

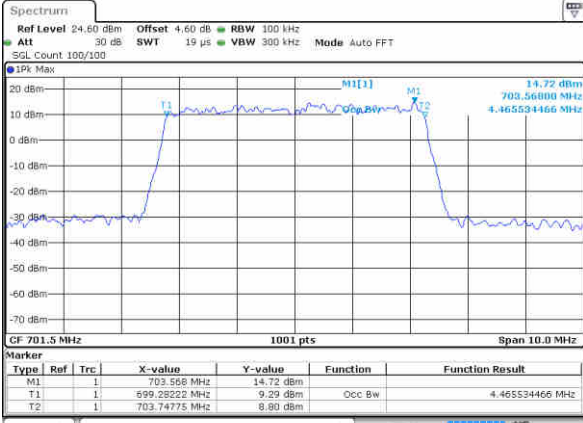


Date: 26 JUN 2020 03:38:42



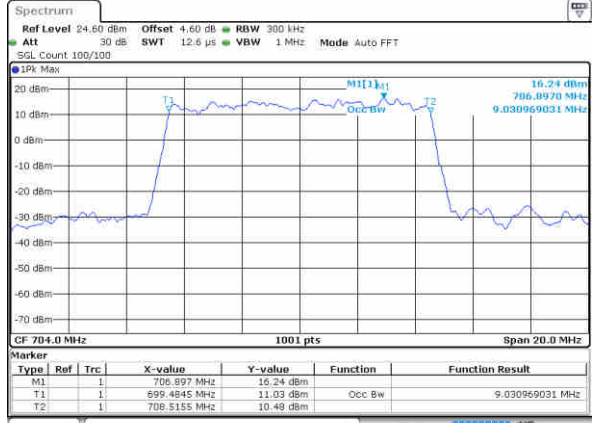
LTE Band 12

Lowest Channel / 5MHz / 64QAM



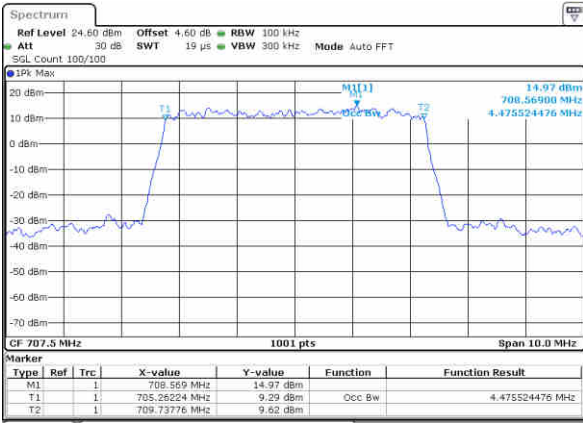
Date: 26 JUN 2020 03:43:31

Lowest Channel / 10MHz / 64QAM



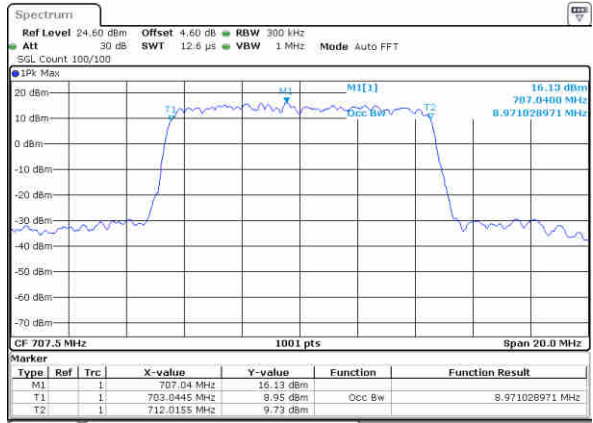
Date: 26 JUN 2020 03:54:27

Middle Channel / 5MHz / 64QAM



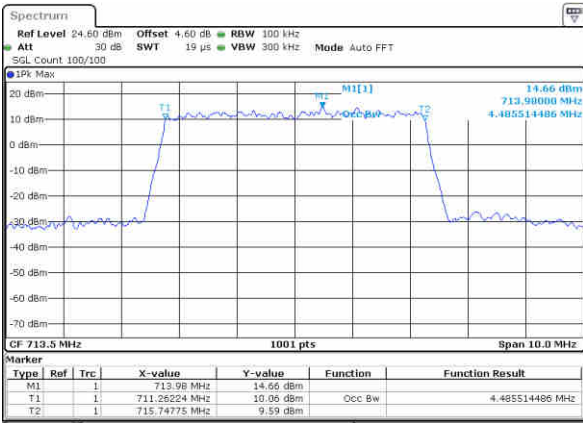
Date: 26 JUN 2020 03:43:51

Middle Channel / 10MHz / 64QAM



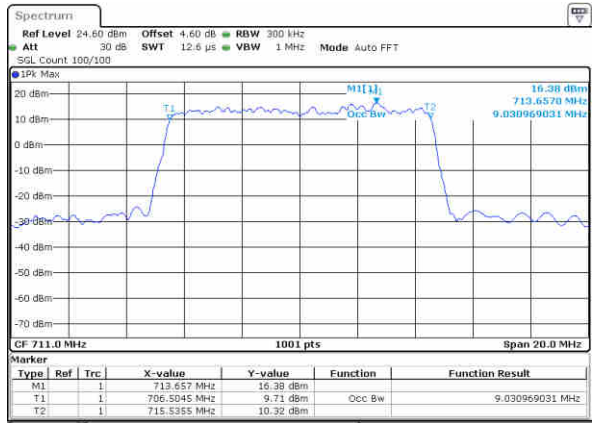
Date: 26 JUN 2020 03:54:47

Highest Channel / 5MHz / 64QAM



Date: 26 JUN 2020 03:44:11

Highest Channel / 10MHz / 64QAM



Date: 26 JUN 2020 03:55:07

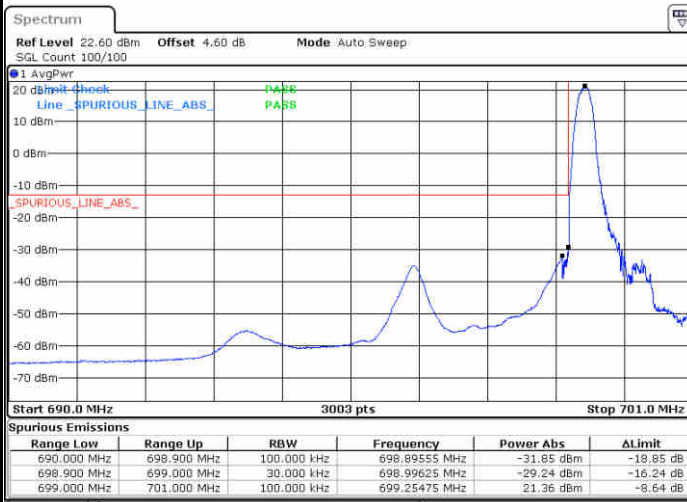


Conducted Band Edge



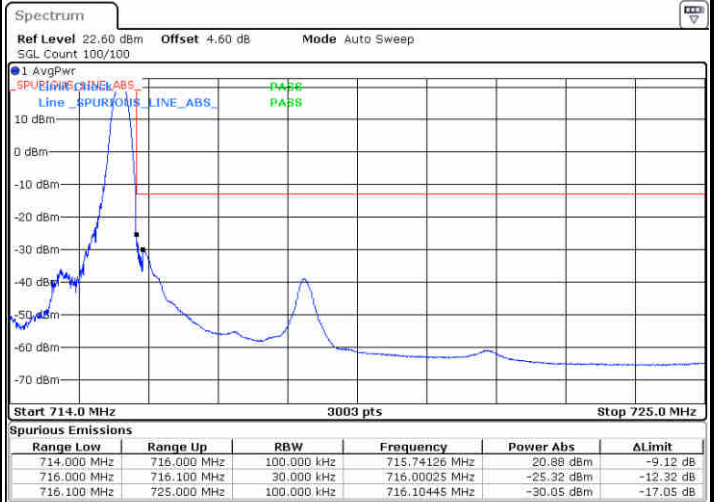
LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Date: 26 JUN 2020 02:30:56

Highest Band Edge / 1RB



Date: 26 JUN 2020 02:36:33

Lowest Band Edge / Full RB



Date: 26 JUN 2020 02:32:04

Highest Band Edge / Full RB



Date: 26 JUN 2020 02:35:26