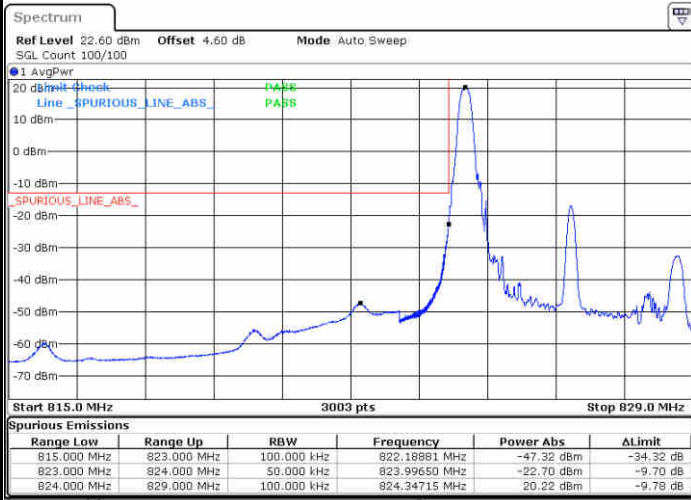




LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



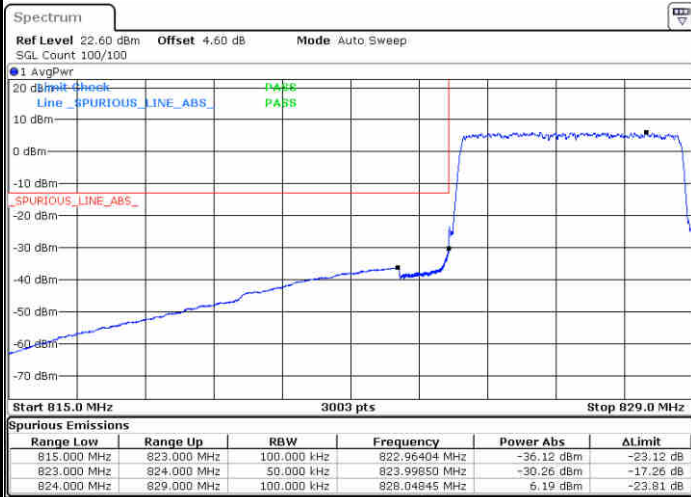
Date: 17.MAY.2020 06:20:27

Highest Band Edge / 1 RB



Date: 17.MAY.2020 05:22:03

Lowest Band Edge / Full RB



Date: 17.MAY.2020 06:23:42

Highest Band Edge / Full RB



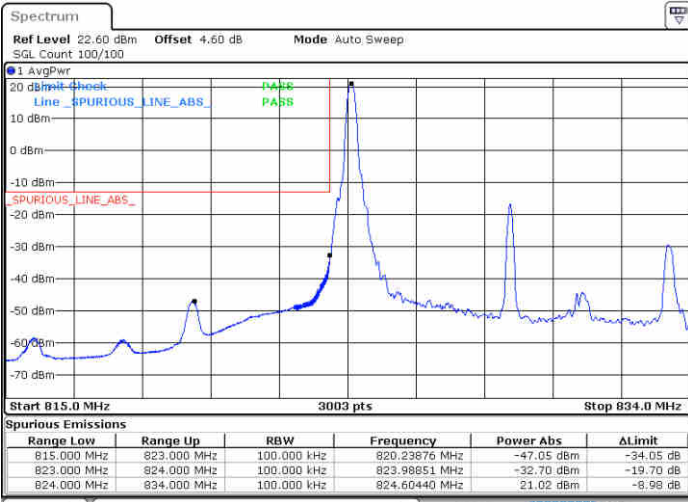
Date: 17.MAY.2020 05:25:18



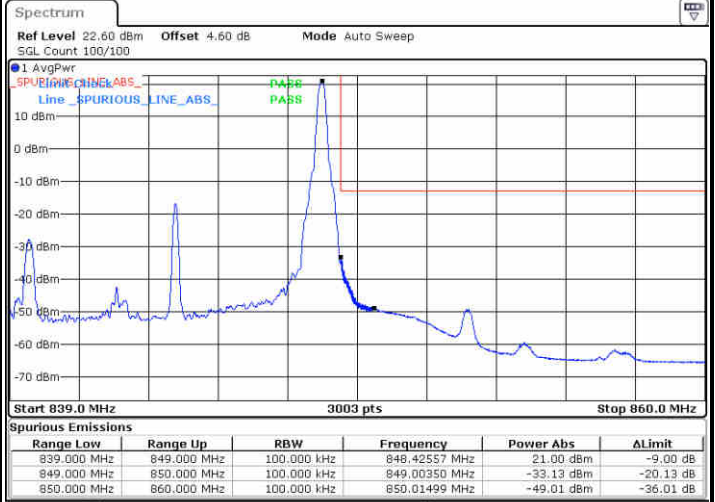
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



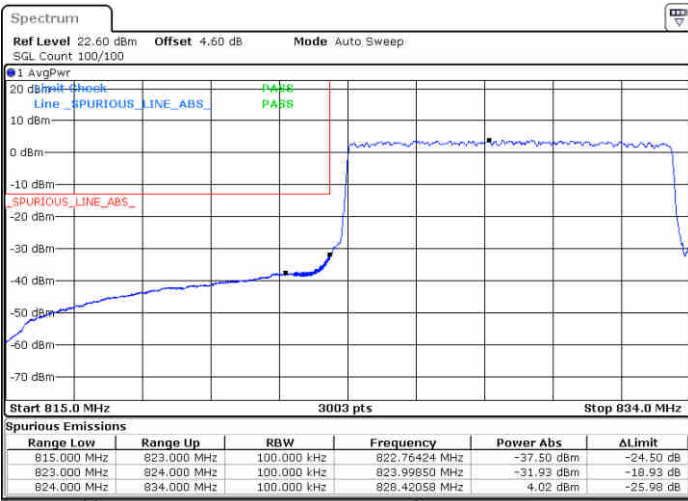
Date: 17.MAY.2020 06:29:36



Date: 17.MAY.2020 06:41:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.MAY.2020 06:32:51

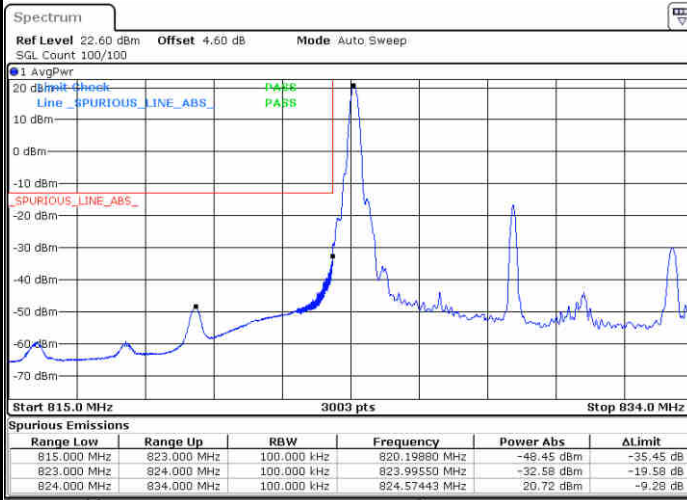


Date: 17.MAY.2020 06:44:19



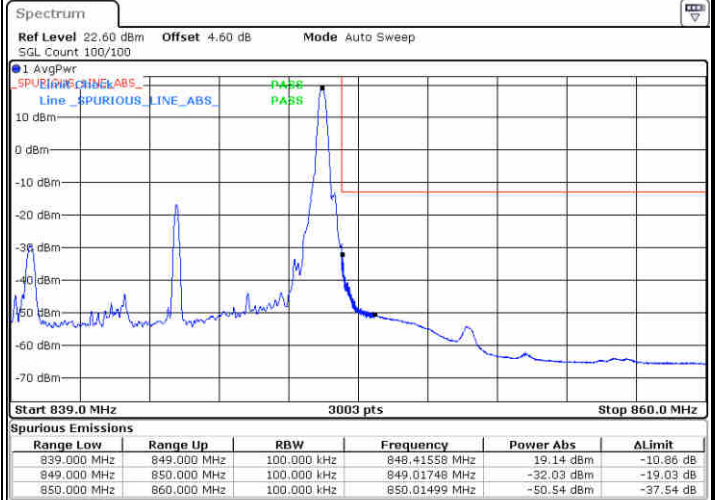
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



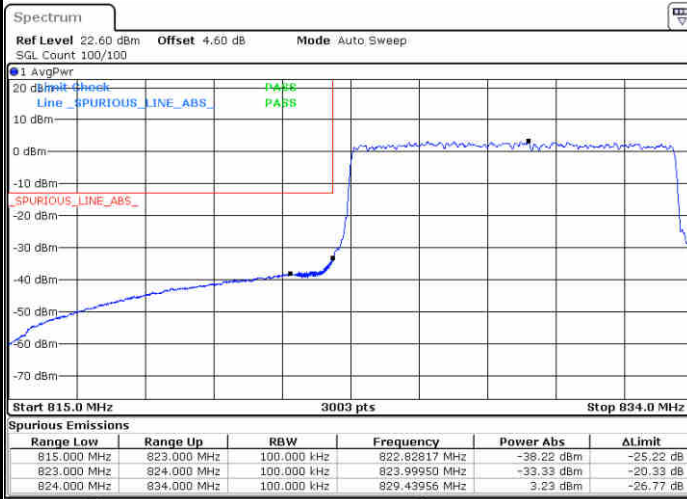
Date: 17.MAY.2020 06:31:13

Highest Band Edge / 1 RB



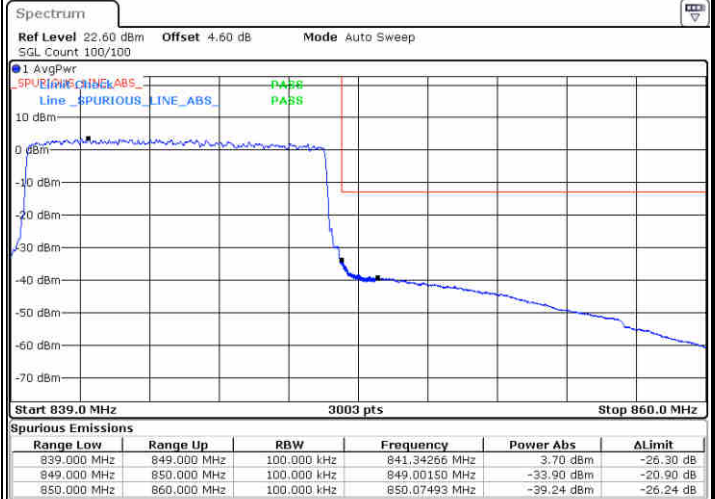
Date: 17.MAY.2020 06:42:42

Lowest Band Edge / Full RB



Date: 17.MAY.2020 06:34:28

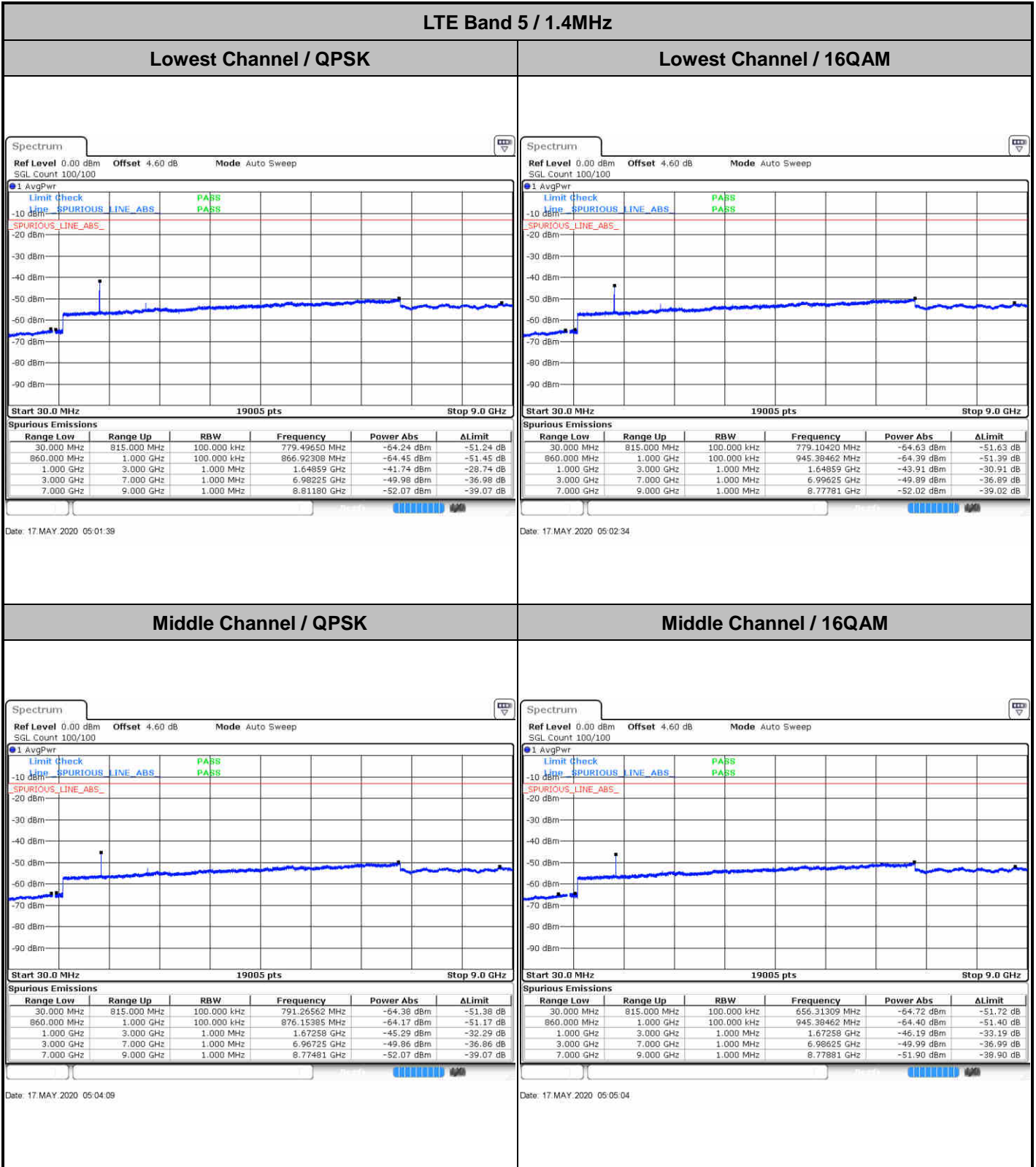
Highest Band Edge / Full RB



Date: 17.MAY.2020 06:45:57



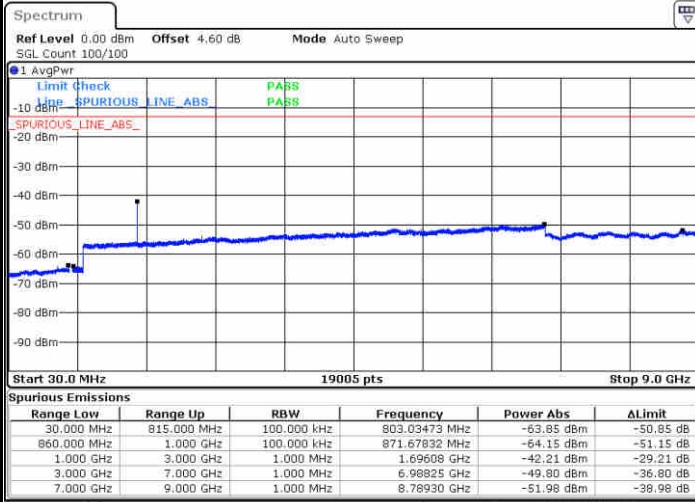
Conducted Spurious Emission





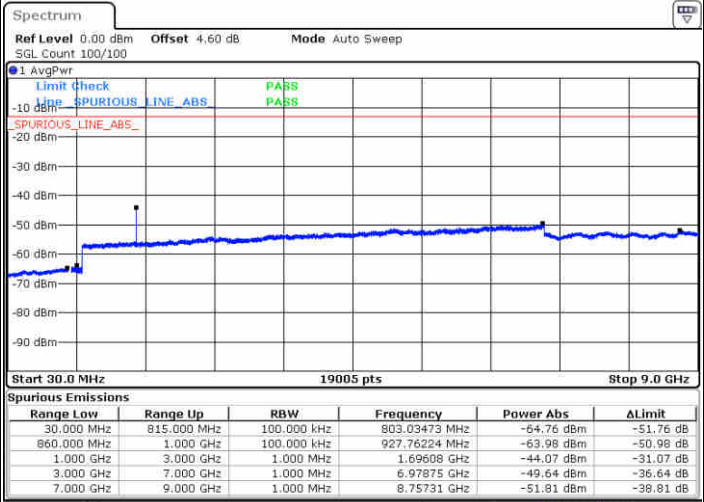
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 17.MAY.2020 05:13:08

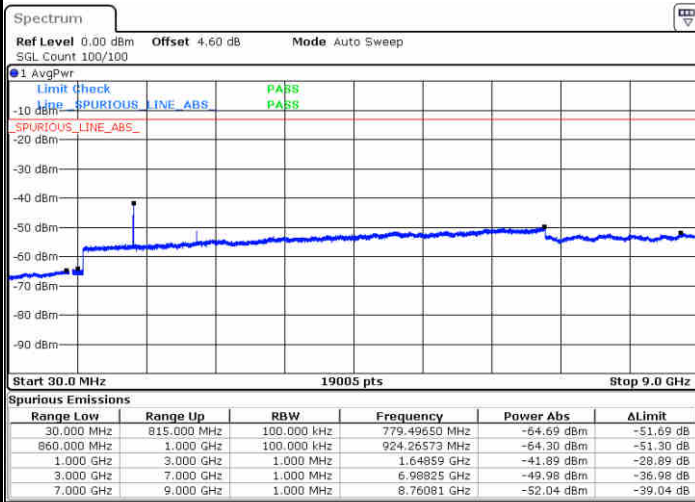
Highest Channel / 16QAM



Date: 17.MAY.2020 05:14:03

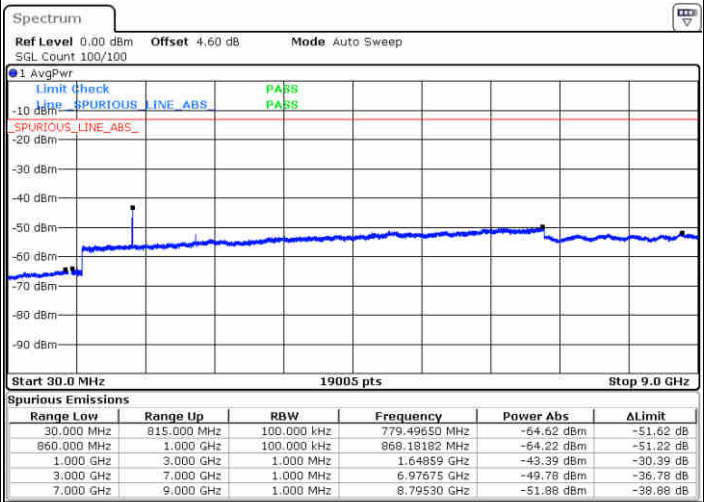
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 17.MAY.2020 05:54:03

Lowest Channel / 16QAM



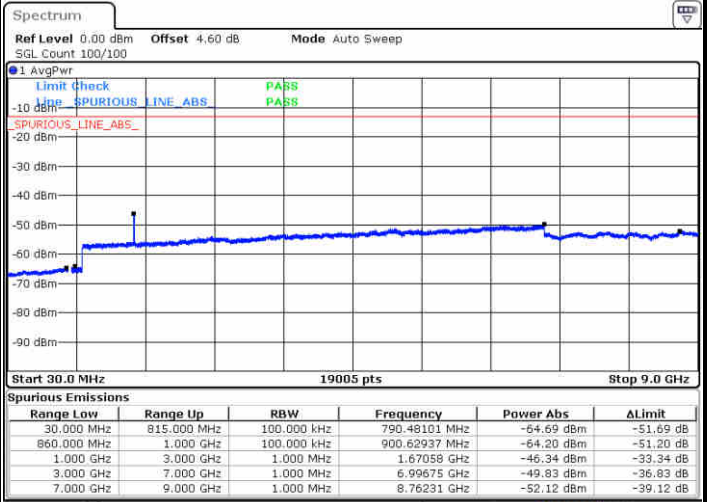
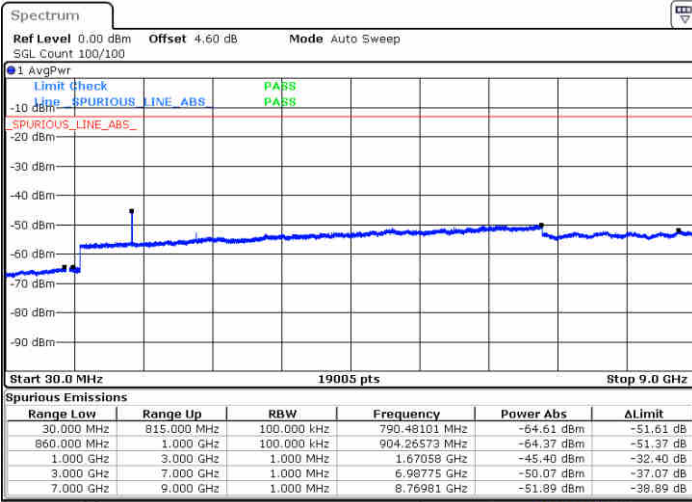
Date: 17.MAY.2020 05:54:57



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

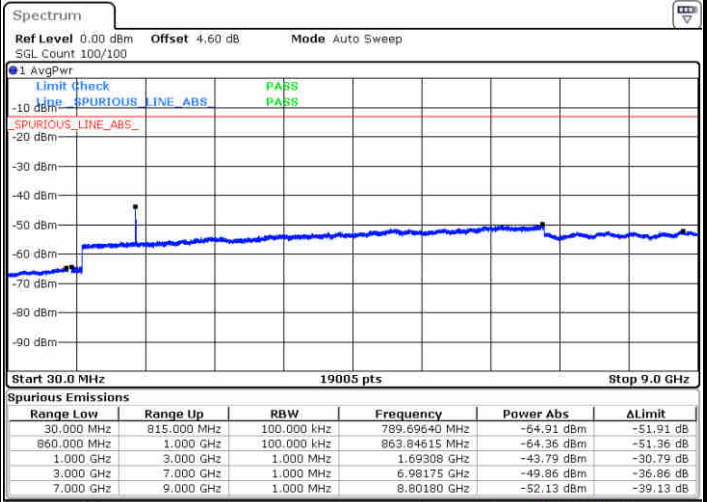
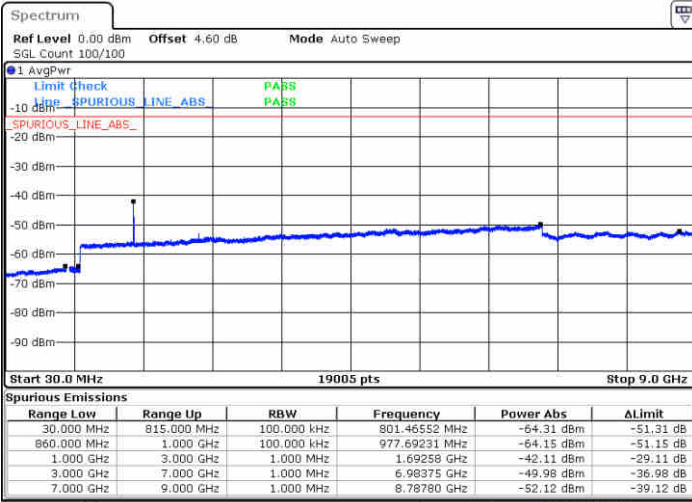


Date: 17.MAY.2020 05:56:32

Date: 17.MAY.2020 05:57:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17.MAY.2020 06:05:31

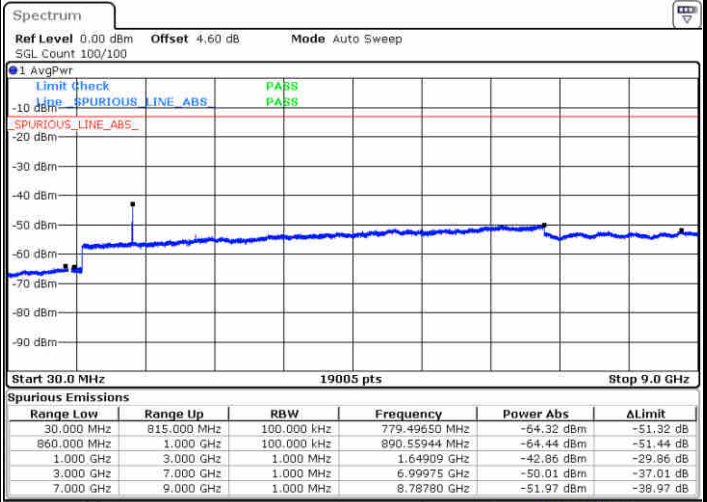
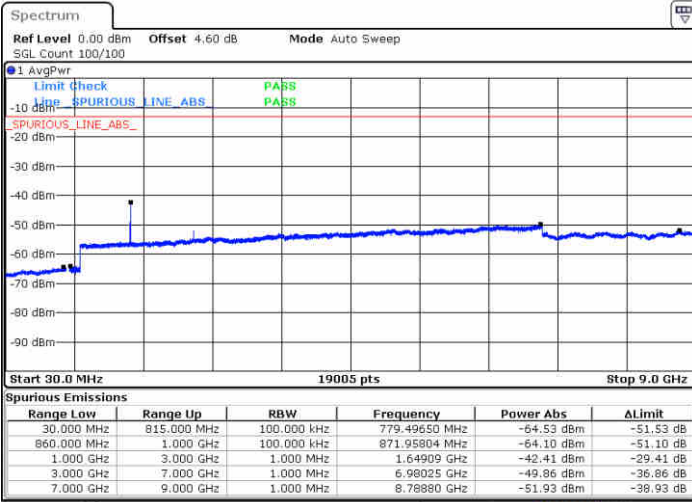
Date: 17.MAY.2020 06:06:26



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

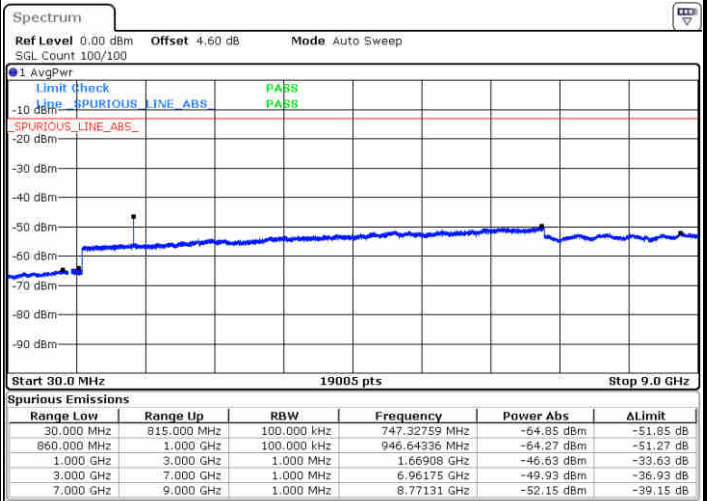
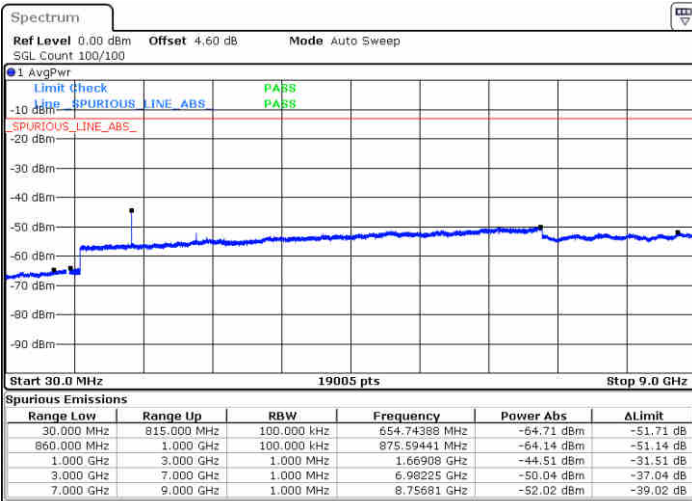


Date: 17.MAY.2020 06:24:36

Date: 17.MAY.2020 06:25:31

Middle Channel / QPSK

Middle Channel / 16QAM



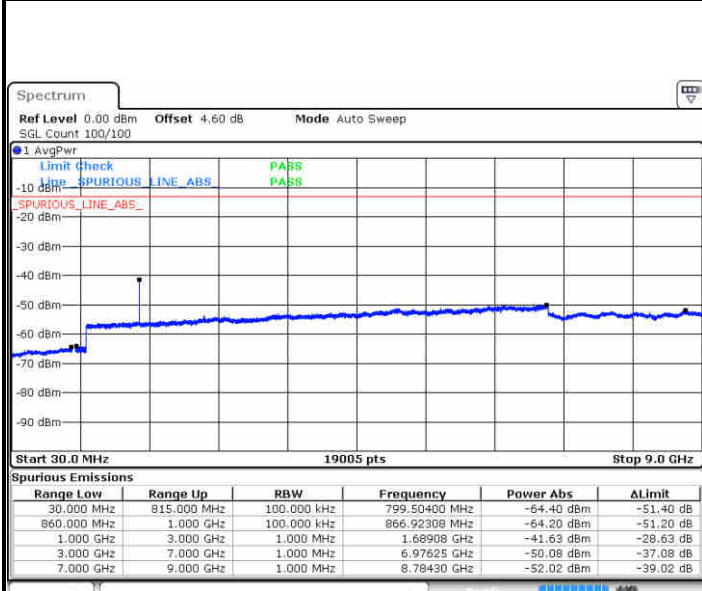
Date: 17.MAY.2020 05:17:12

Date: 17.MAY.2020 05:18:07



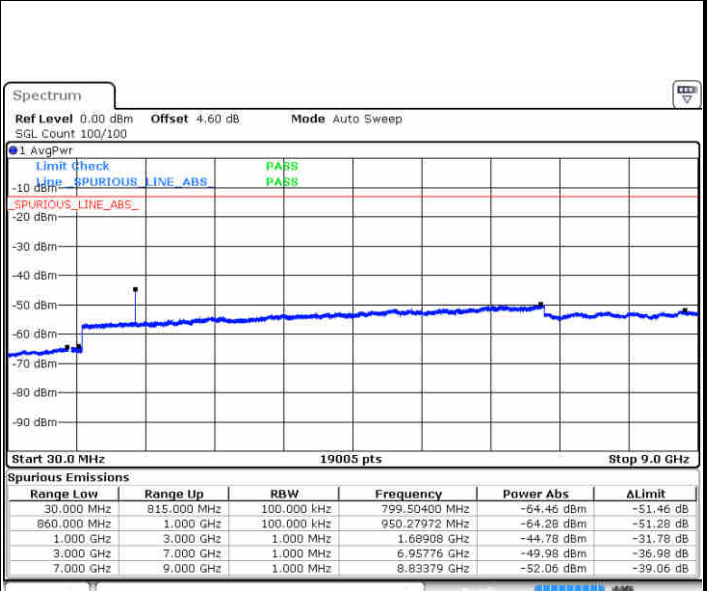
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 17.MAY.2020 05:26:12

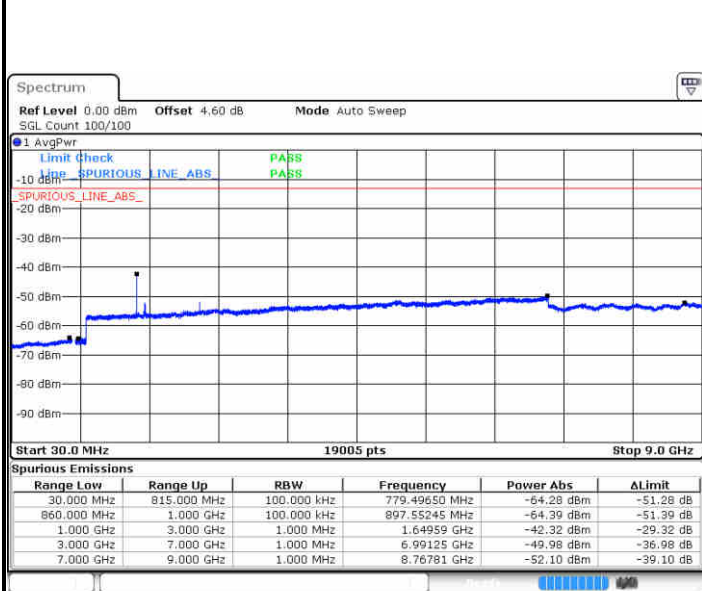
Highest Channel / 16QAM



Date: 17.MAY.2020 05:27:06

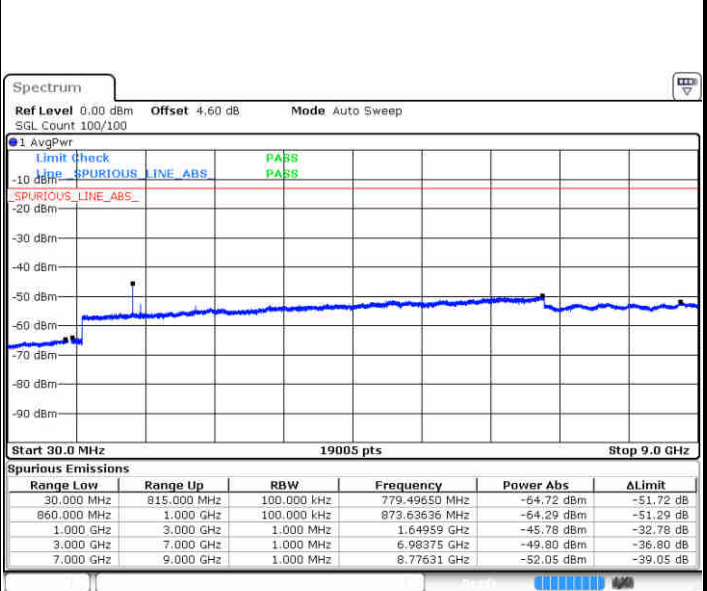
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 17.MAY.2020 06:35:22

Lowest Channel / 16QAM



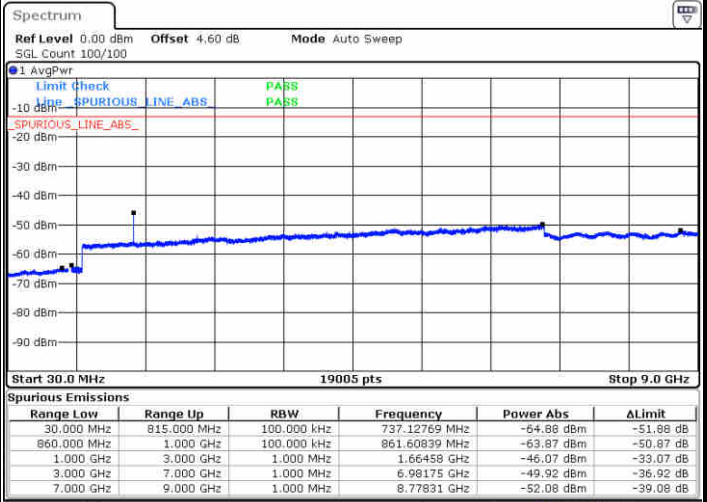
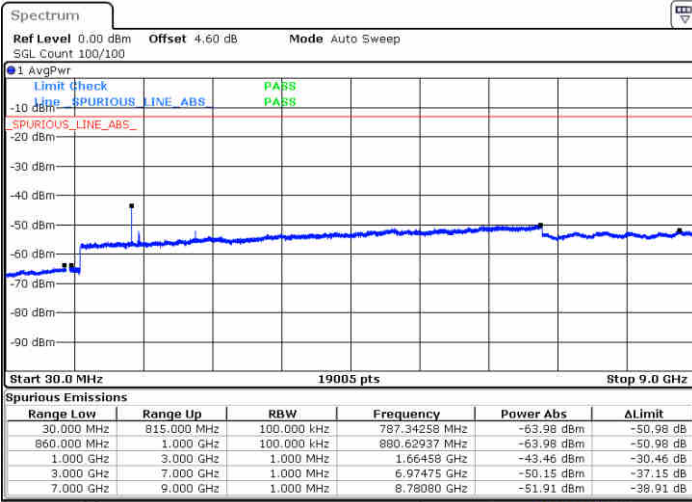
Date: 17.MAY.2020 06:36:17



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

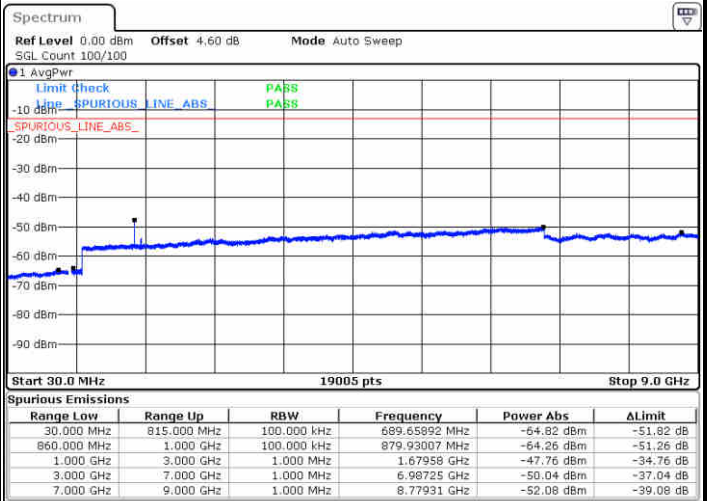
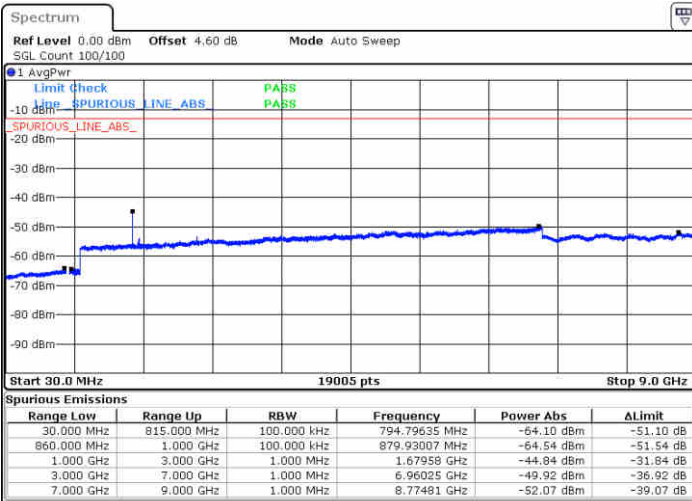


Date: 17.MAY.2020 08:37:51

Date: 17.MAY.2020 08:38:46

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17.MAY.2020 08:46:50

Date: 17.MAY.2020 08:47:45



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	0.0022	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0039	

Note: Normal Voltage =4 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



LTE Band 12

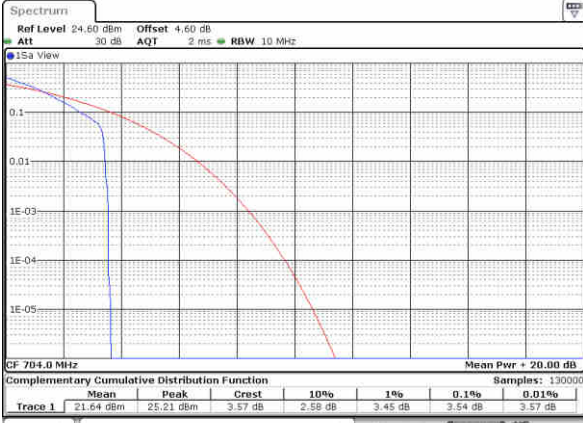
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.58	4.14	5.59	PASS
Middle CH	3.42	4.32	4.29	5.36	
Highest CH	2.93	4.41	4.14	5.45	



LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



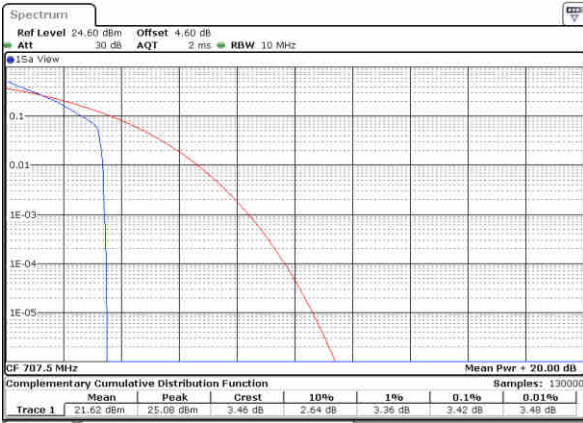
Date: 17 MAY 2020 04:51:32

Lowest Channel / Full RB



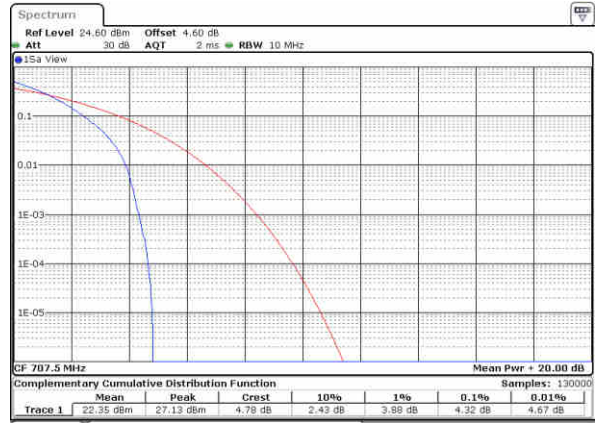
Date: 17 MAY 2020 04:51:41

Middle Channel / 1RB



Date: 17 MAY 2020 04:52:16

Middle Channel / Full RB



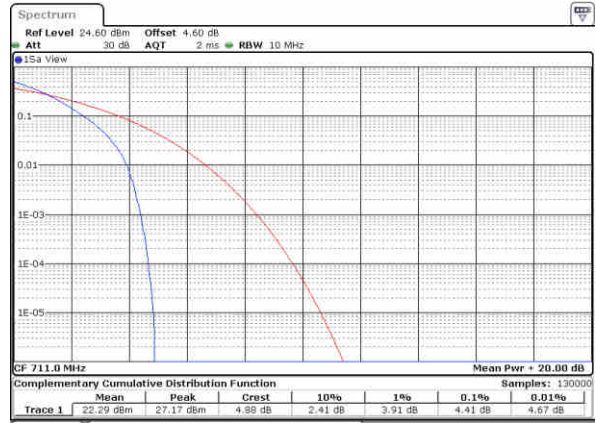
Date: 17 MAY 2020 04:52:07

Highest Channel / 1RB



Date: 17 MAY 2020 04:52:42

Highest Channel / Full RB

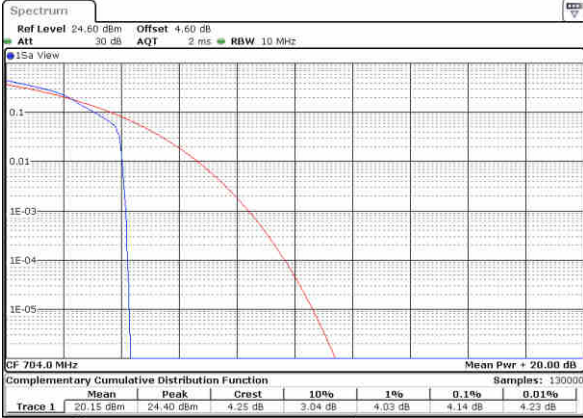


Date: 17 MAY 2020 04:52:51



LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 17 MAY 2020 04:51:22

Lowest Channel / Full RB



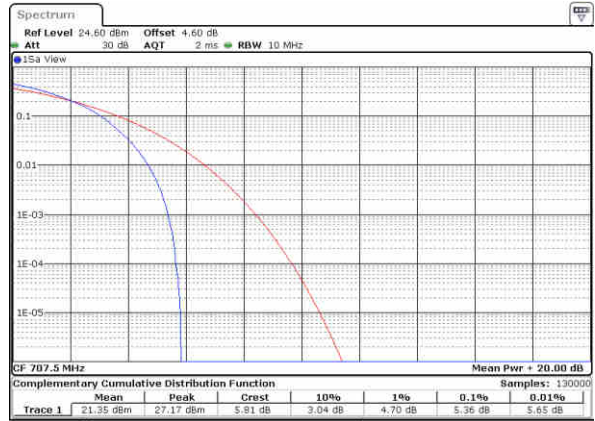
Date: 17 MAY 2020 04:51:49

Middle Channel / 1RB



Date: 17 MAY 2020 04:52:25

Middle Channel / Full RB



Date: 17 MAY 2020 04:51:59

Highest Channel / 1RB



Date: 17 MAY 2020 04:52:33

Highest Channel / Full RB



Date: 17 MAY 2020 04:53:00



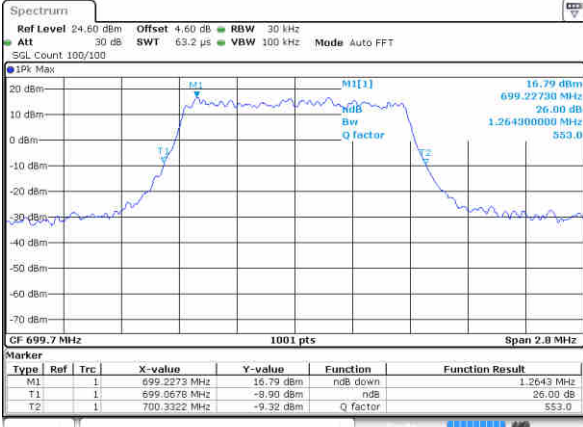
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.26	1.25	3.01	3.02	4.92	4.96	9.79	9.71	-	-	-	-
Middle CH	1.31	1.27	3.00	3.02	4.92	4.87	9.79	9.73	-	-	-	-
Highest CH	1.28	1.27	2.99	3.03	4.92	4.93	9.65	9.87	-	-	-	-



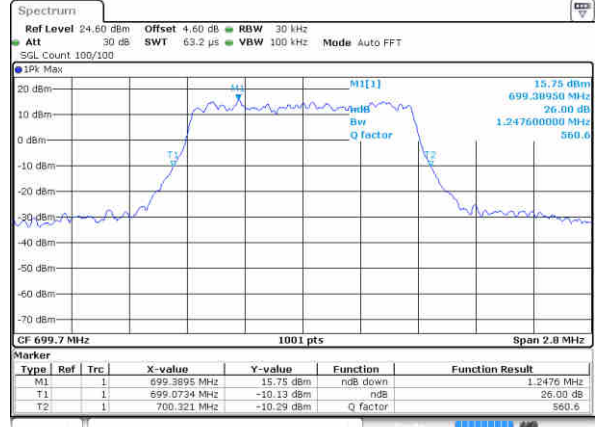
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



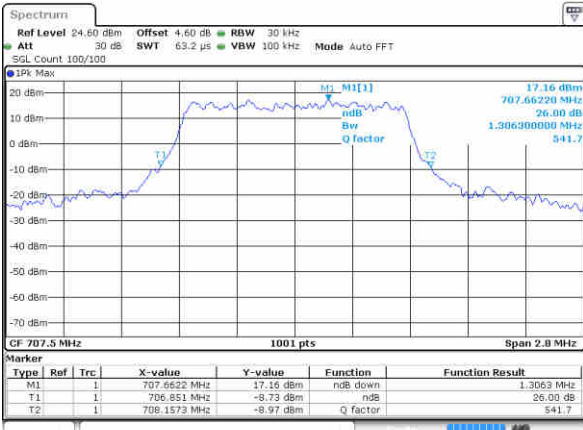
Date: 17 MAY 2020 03:24:50

Lowest Channel / 1.4MHz / 16QAM



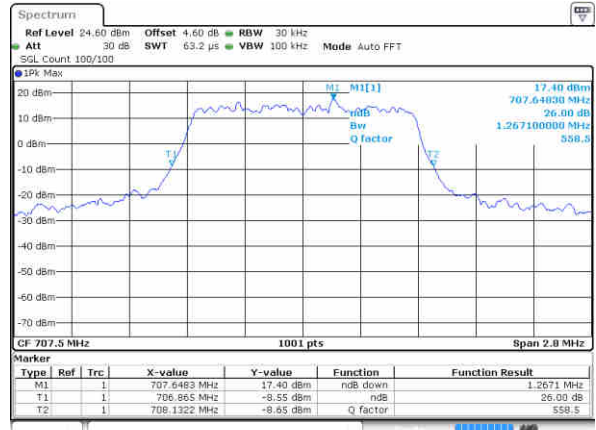
Date: 17 MAY 2020 03:24:40

Middle Channel / 1.4MHz / QPSK



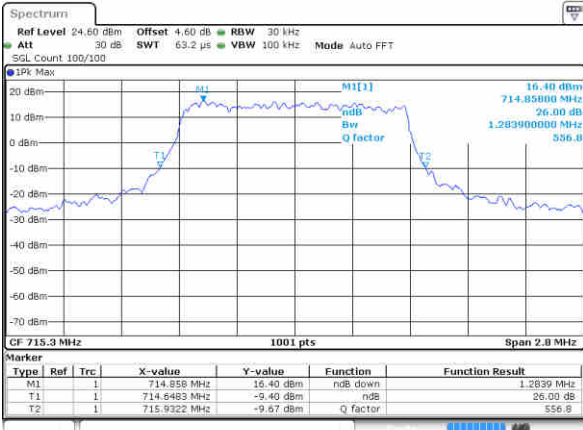
Date: 17 MAY 2020 03:24:20

Middle Channel / 1.4MHz / 16QAM



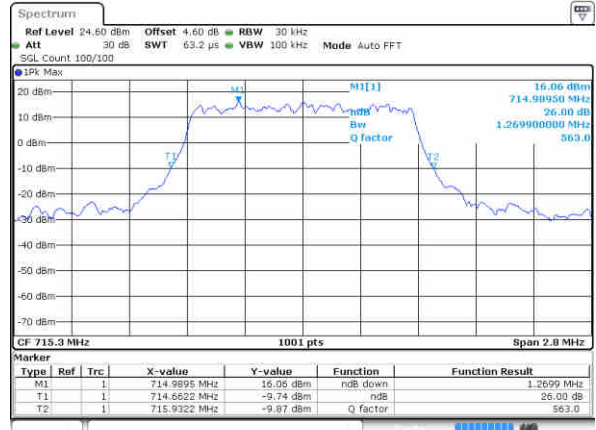
Date: 17 MAY 2020 03:24:30

Highest Channel / 1.4MHz / QPSK



Date: 17 MAY 2020 03:24:10

Highest Channel / 1.4MHz / 16QAM

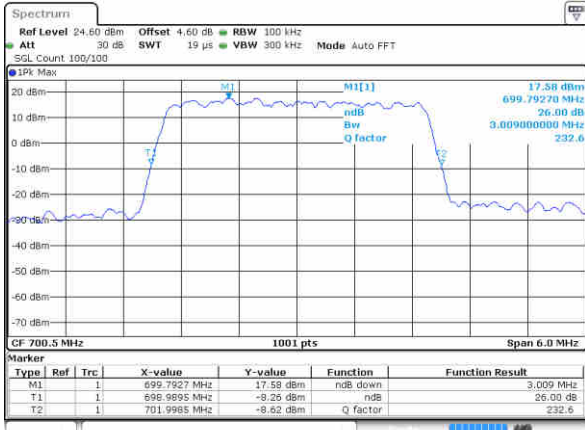


Date: 17 MAY 2020 03:24:00



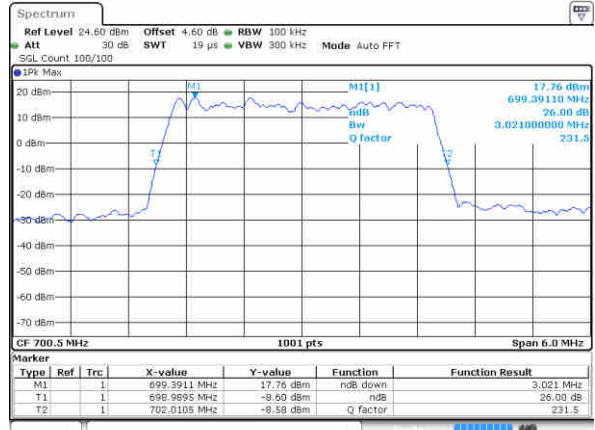
LTE Band 12

Lowest Channel / 3MHz / QPSK



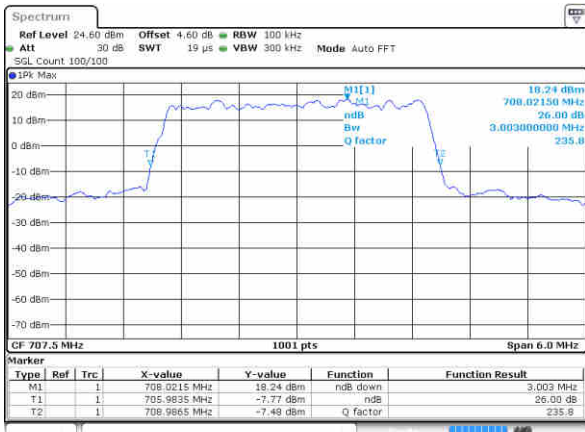
Date: 17 MAY 2020 03:41:16

Lowest Channel / 3MHz / 16QAM



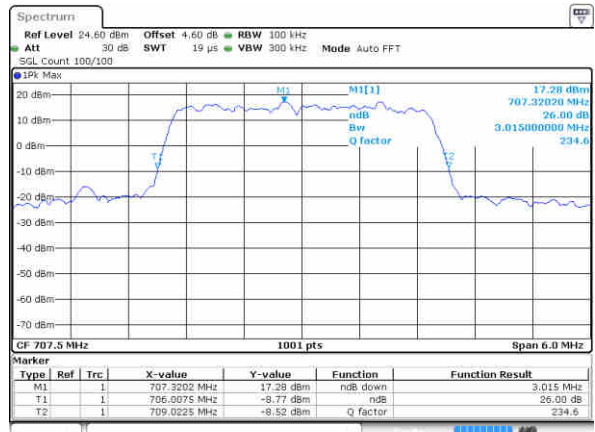
Date: 17 MAY 2020 03:41:08

Middle Channel / 3MHz / QPSK



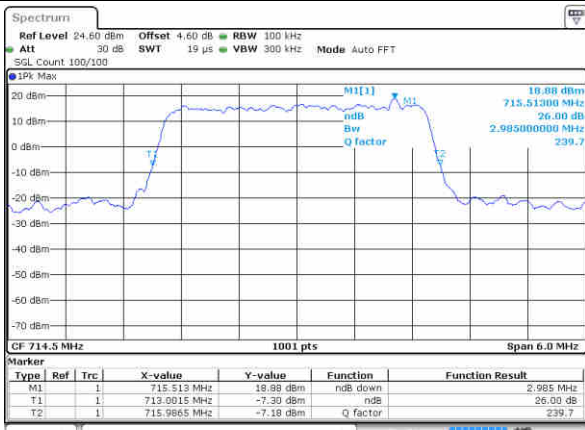
Date: 17 MAY 2020 03:40:48

Middle Channel / 3MHz / 16QAM



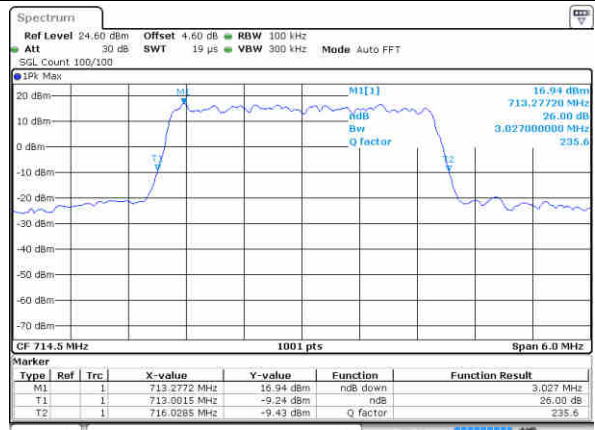
Date: 17 MAY 2020 03:40:58

Highest Channel / 3MHz / QPSK



Date: 17 MAY 2020 03:40:38

Highest Channel / 3MHz / 16QAM

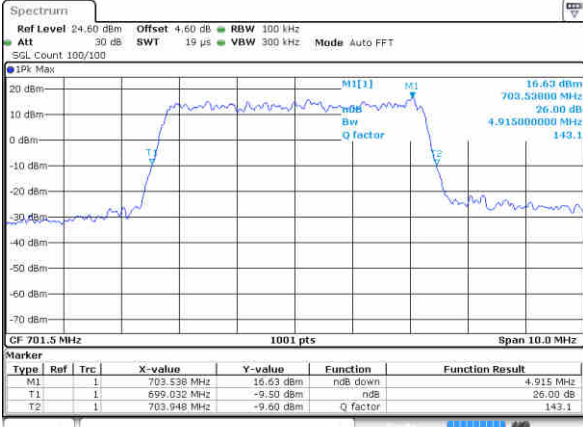


Date: 17 MAY 2020 03:40:28



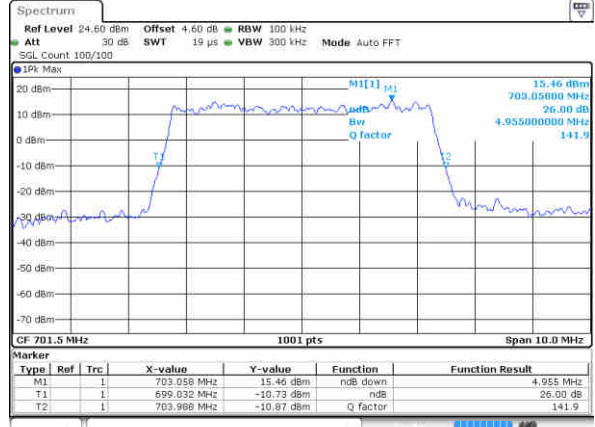
LTE Band 12

Lowest Channel / 5MHz / QPSK



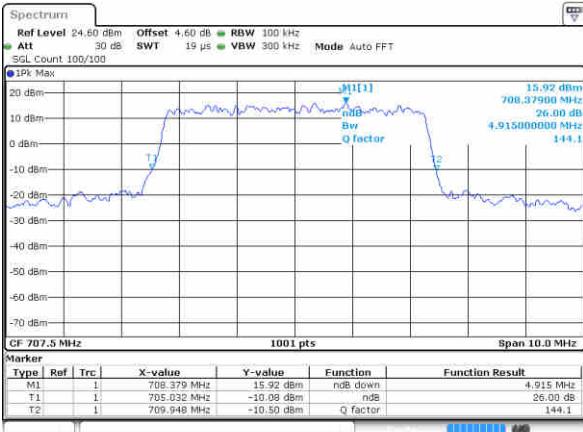
Date: 17 MAY 2020 03:57:46

Lowest Channel / 5MHz / 16QAM



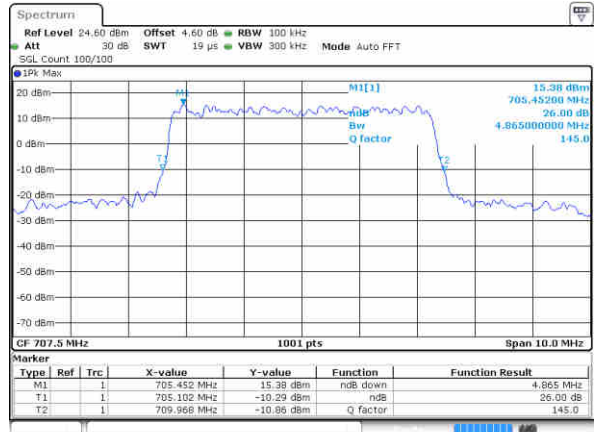
Date: 17 MAY 2020 03:57:35

Middle Channel / 5MHz / QPSK



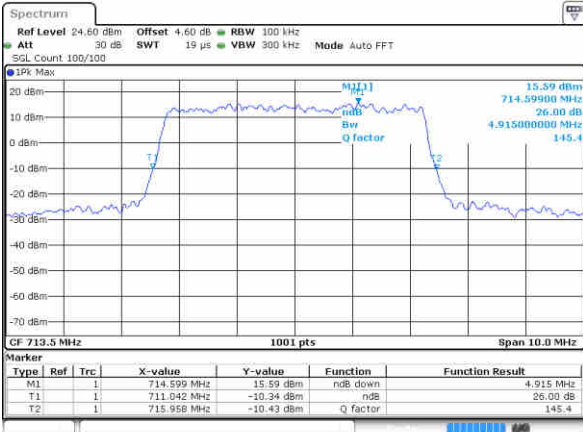
Date: 17 MAY 2020 03:57:16

Middle Channel / 5MHz / 16QAM



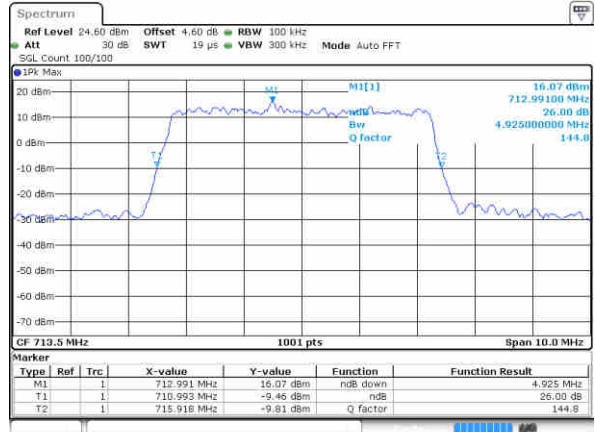
Date: 17 MAY 2020 03:57:26

Highest Channel / 5MHz / QPSK



Date: 17 MAY 2020 03:57:06

Highest Channel / 5MHz / 16QAM

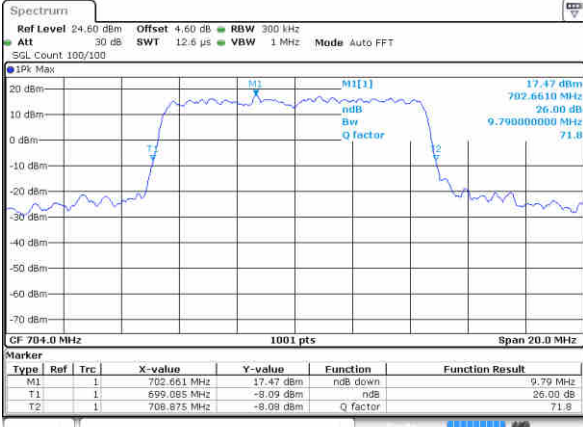


Date: 17 MAY 2020 03:56:56



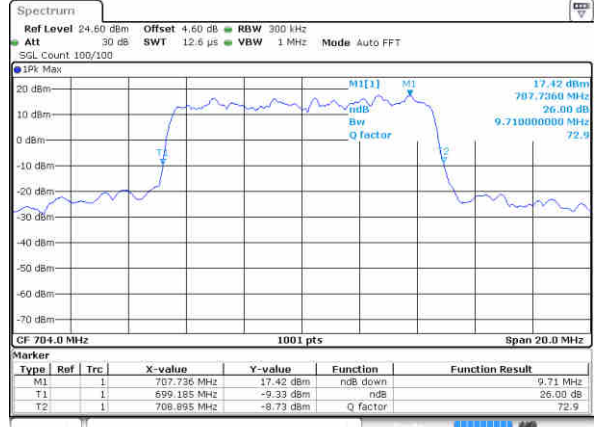
LTE Band 12

Lowest Channel / 10MHz / QPSK



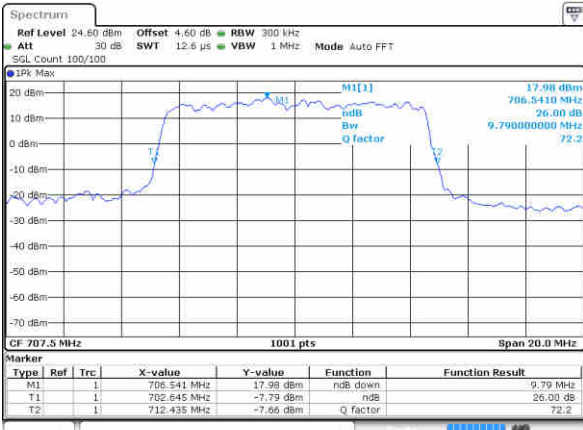
Date: 17 MAY 2020 04:14:14

Lowest Channel / 10MHz / 16QAM



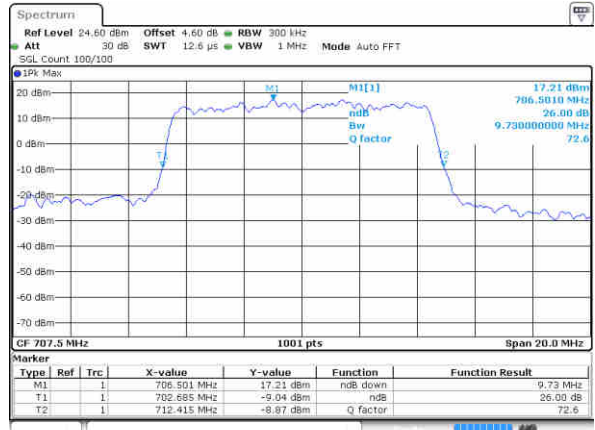
Date: 17 MAY 2020 04:14:04

Middle Channel / 10MHz / QPSK



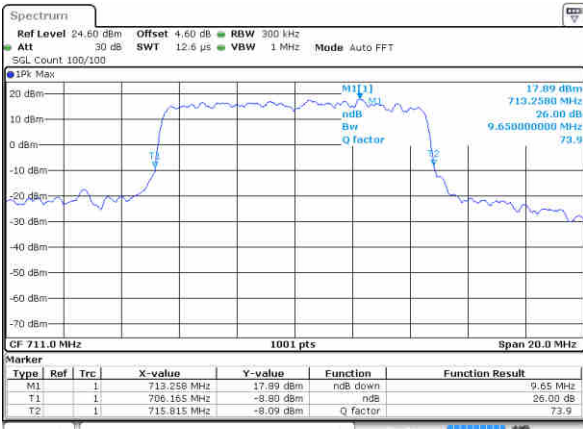
Date: 17 MAY 2020 04:13:44

Middle Channel / 10MHz / 16QAM



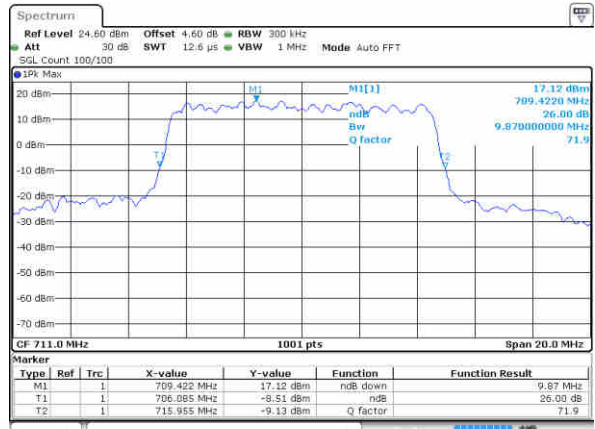
Date: 17 MAY 2020 04:13:54

Highest Channel / 10MHz / QPSK



Date: 17 MAY 2020 04:13:34

Highest Channel / 10MHz / 16QAM



Date: 17 MAY 2020 04:13:24



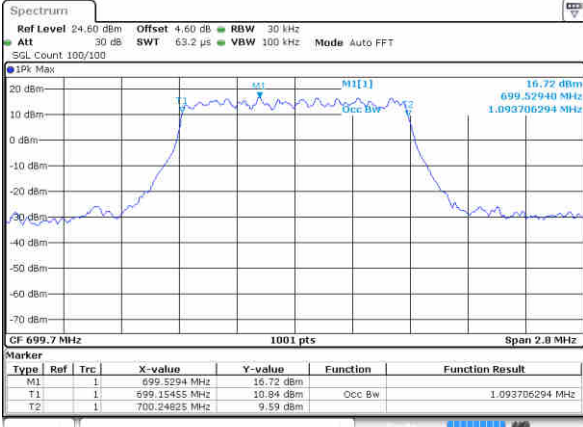
Occupied Bandwidth

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



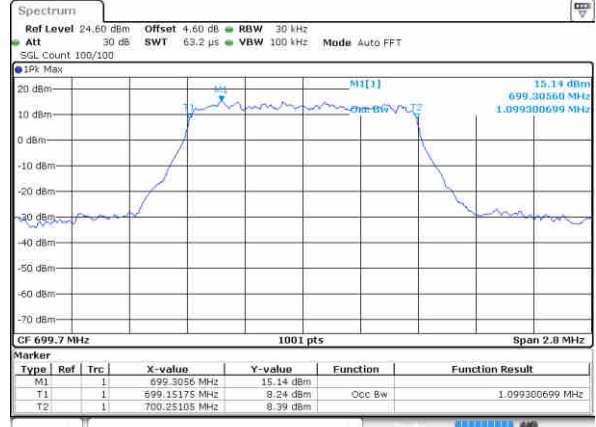
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



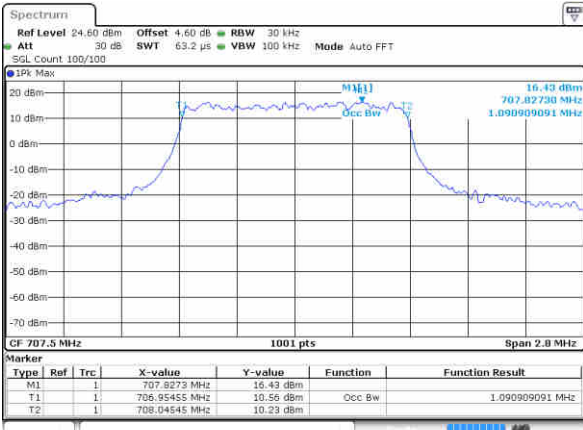
Date: 17 MAY 2020 03:22:58

Lowest Channel / 1.4MHz / 16QAM



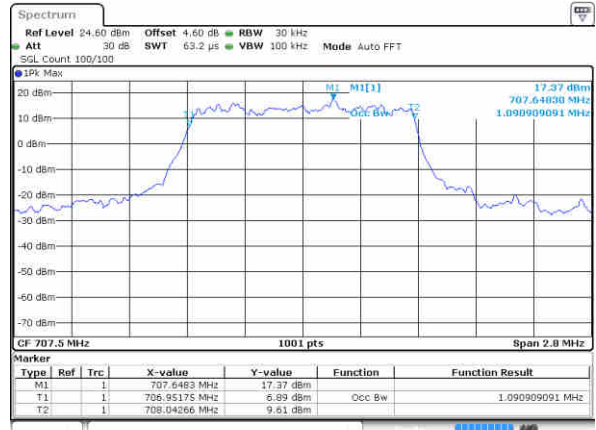
Date: 17 MAY 2020 03:23:09

Middle Channel / 1.4MHz / QPSK



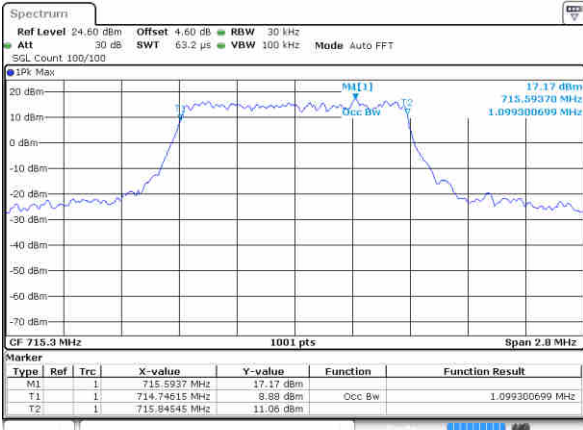
Date: 17 MAY 2020 03:23:30

Middle Channel / 1.4MHz / 16QAM



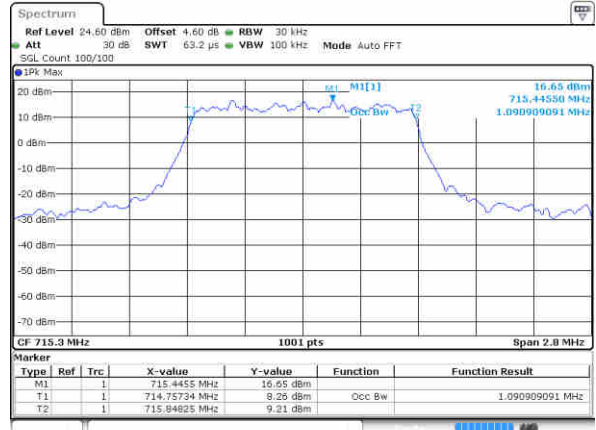
Date: 17 MAY 2020 03:23:20

Highest Channel / 1.4MHz / QPSK



Date: 17 MAY 2020 03:23:40

Highest Channel / 1.4MHz / 16QAM

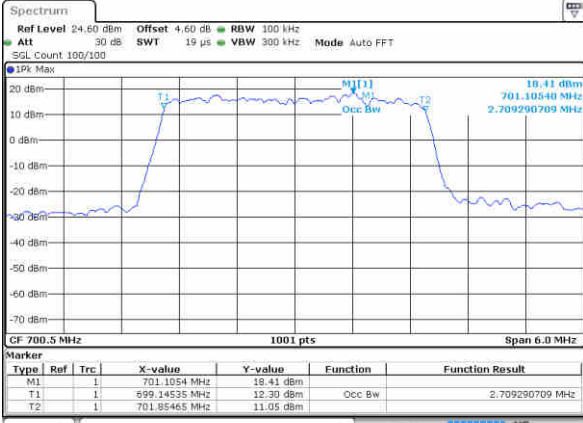


Date: 17 MAY 2020 03:23:50



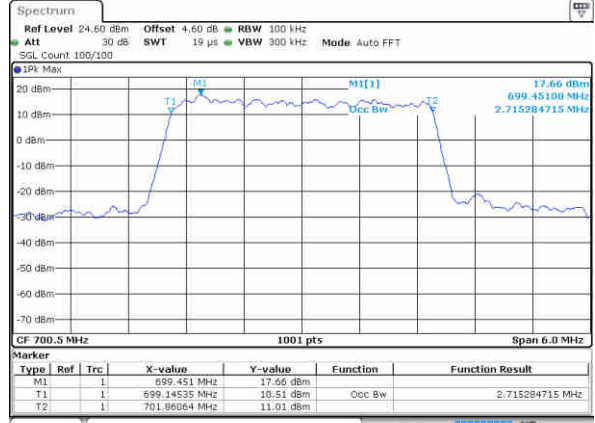
LTE Band 12

Lowest Channel / 3MHz / QPSK



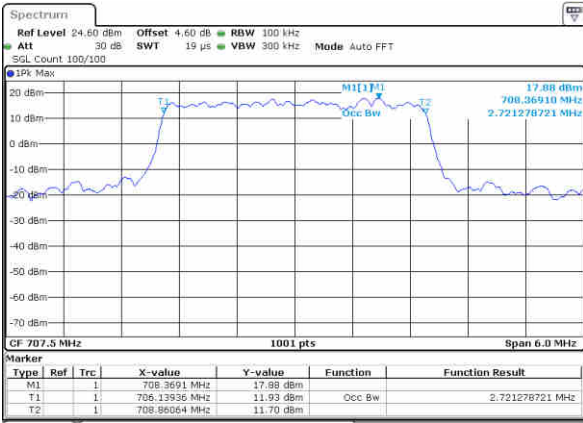
Date: 17 MAY 2020 03:39:27

Lowest Channel / 3MHz / 16QAM



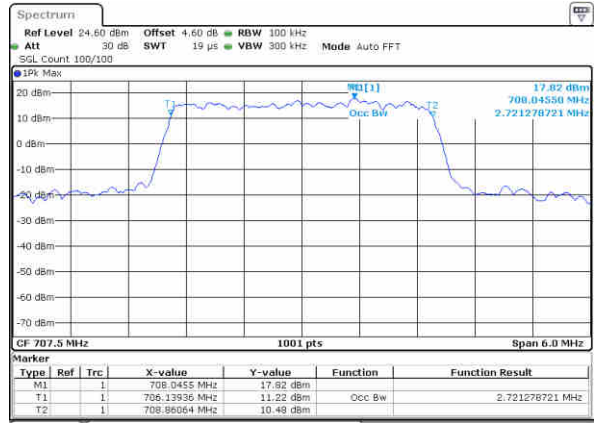
Date: 17 MAY 2020 03:39:37

Middle Channel / 3MHz / QPSK



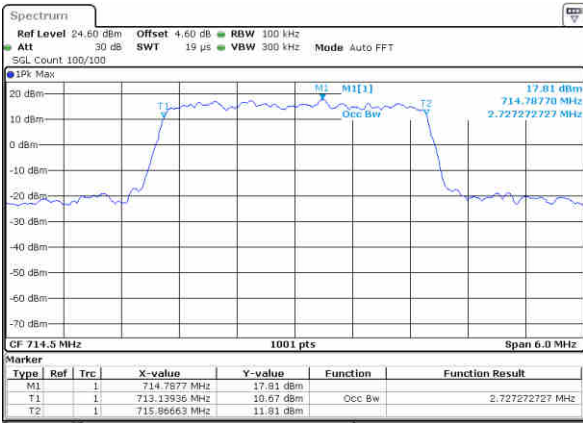
Date: 17 MAY 2020 03:39:57

Middle Channel / 3MHz / 16QAM



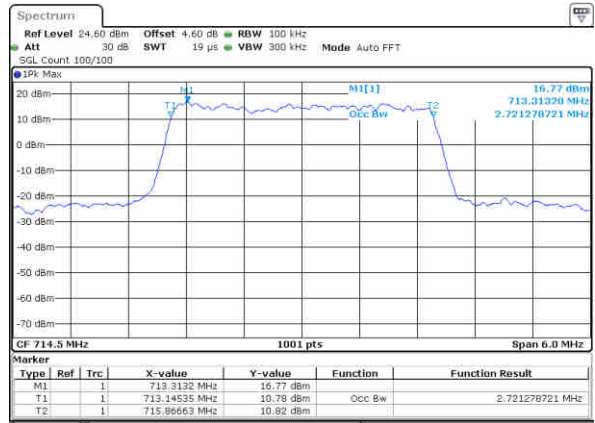
Date: 17 MAY 2020 03:39:47

Highest Channel / 3MHz / QPSK



Date: 17 MAY 2020 03:40:07

Highest Channel / 3MHz / 16QAM

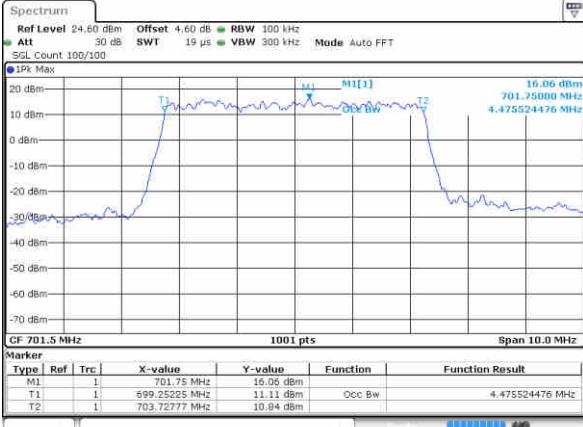


Date: 17 MAY 2020 03:40:18



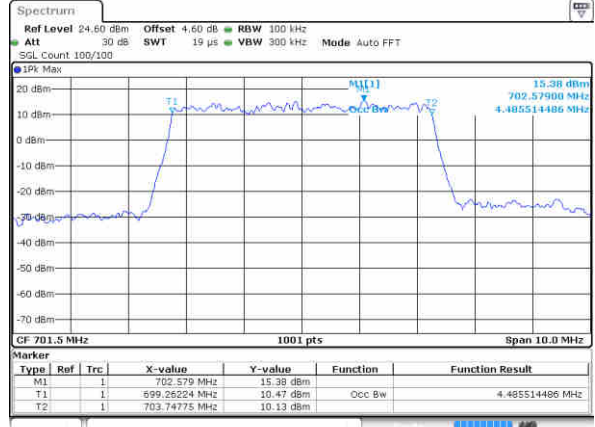
LTE Band 12

Lowest Channel / 5MHz / QPSK



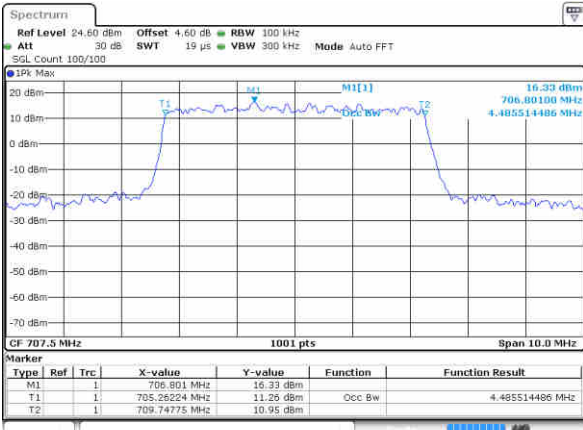
Date: 17 MAY 2020 03:55:55

Lowest Channel / 5MHz / 16QAM



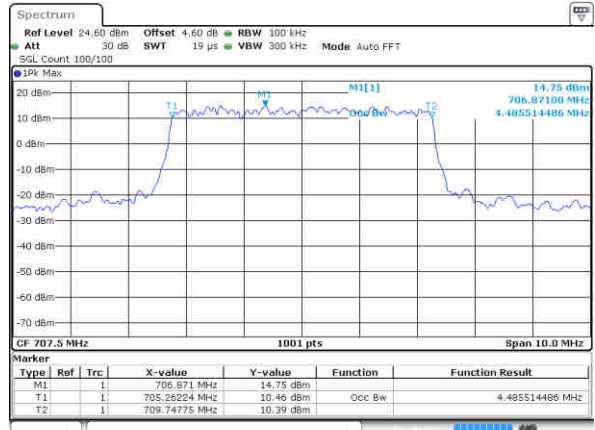
Date: 17 MAY 2020 03:56:05

Middle Channel / 5MHz / QPSK



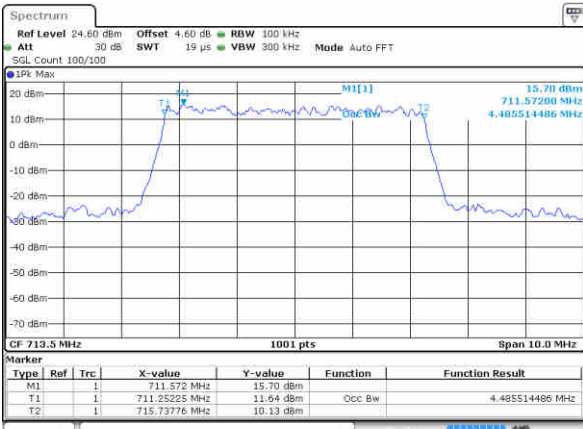
Date: 17 MAY 2020 03:56:25

Middle Channel / 5MHz / 16QAM



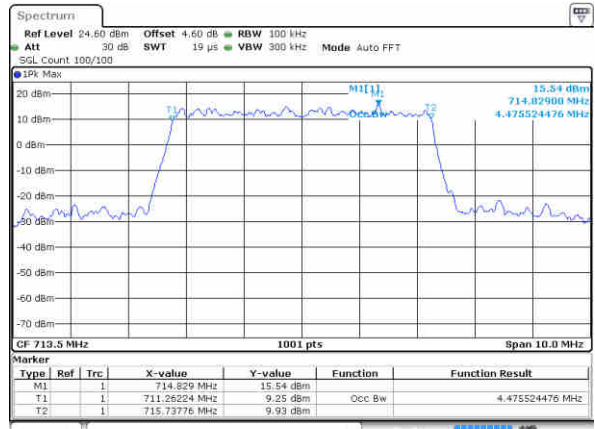
Date: 17 MAY 2020 03:56:15

Highest Channel / 5MHz / QPSK



Date: 17 MAY 2020 03:56:36

Highest Channel / 5MHz / 16QAM

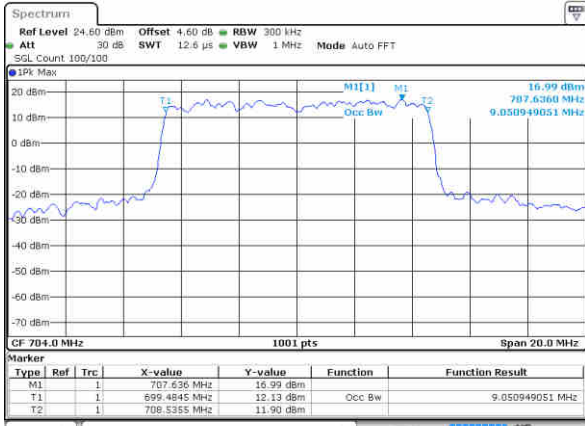


Date: 17 MAY 2020 03:56:46



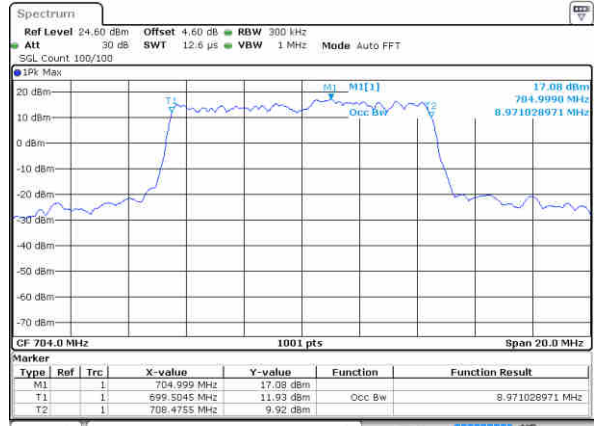
LTE Band 12

Lowest Channel / 10MHz / QPSK



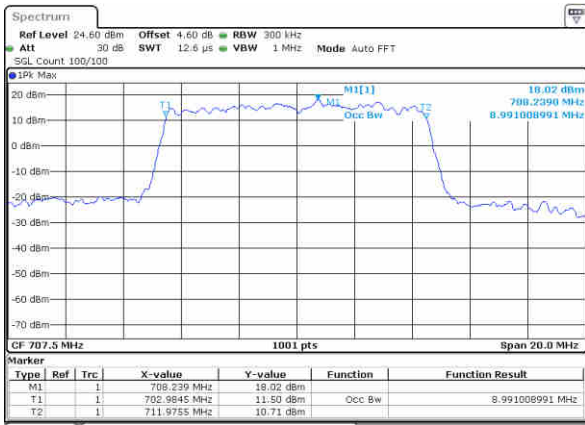
Date: 17 MAY 2020 04:12:24

Lowest Channel / 10MHz / 16QAM



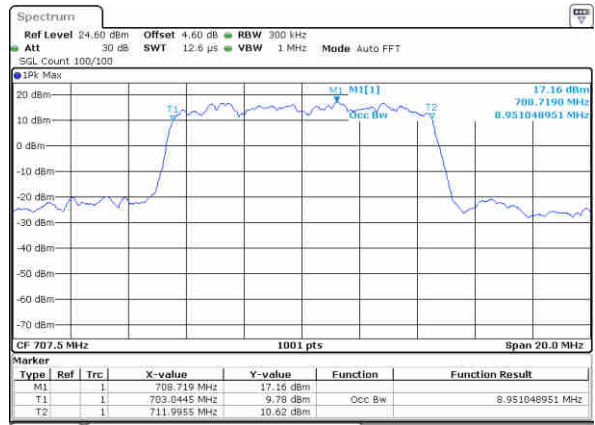
Date: 17 MAY 2020 04:12:34

Middle Channel / 10MHz / QPSK



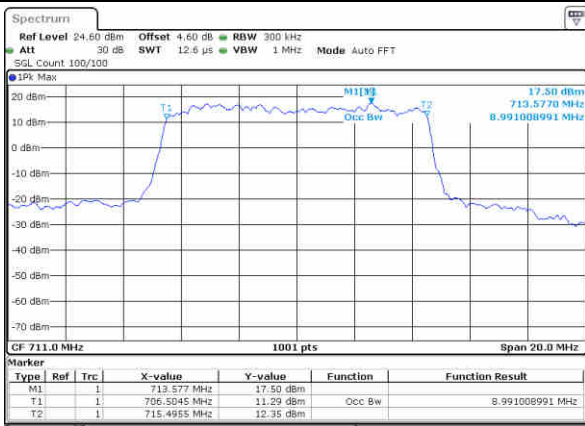
Date: 17 MAY 2020 04:12:54

Middle Channel / 10MHz / 16QAM



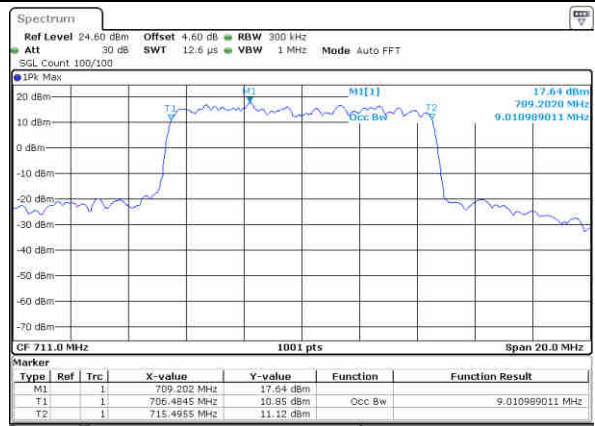
Date: 17 MAY 2020 04:12:44

Highest Channel / 10MHz / QPSK



Date: 17 MAY 2020 04:13:04

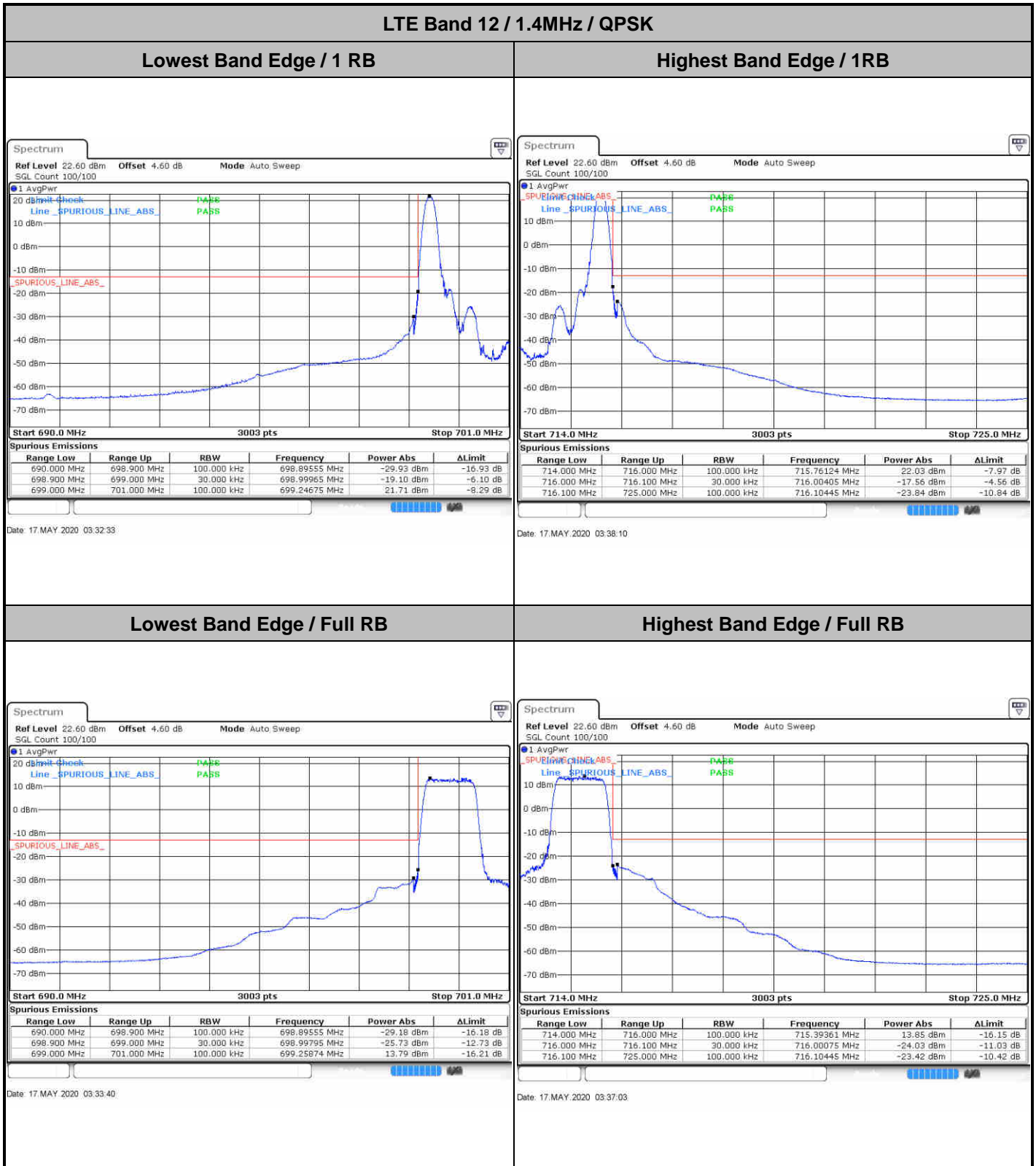
Highest Channel / 10MHz / 16QAM



Date: 17 MAY 2020 04:13:14



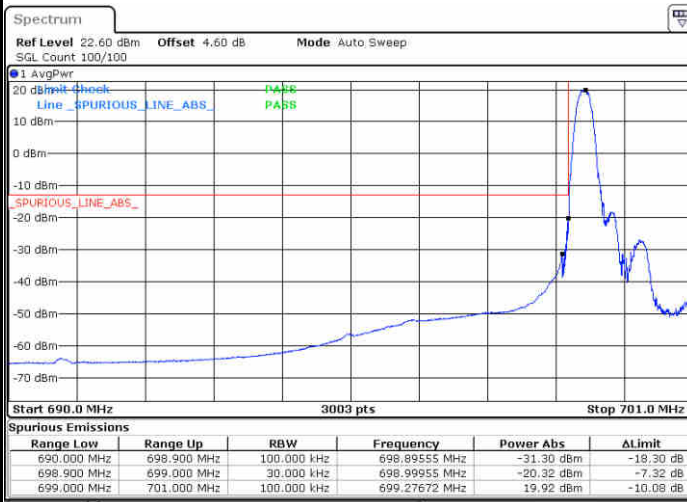
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 17.MAY.2020 03:31:25

Highest Band Edge / 1 RB



Date: 17.MAY.2020 03:39:18

Lowest Band Edge / Full RB



Date: 17.MAY.2020 03:34:48

Highest Band Edge / Full RB

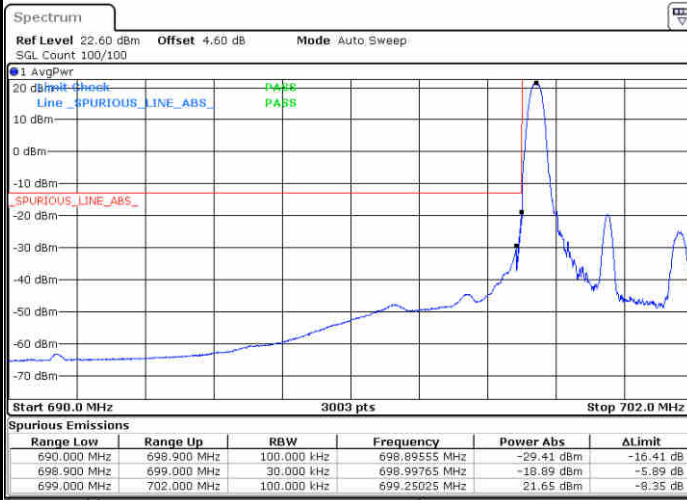


Date: 17.MAY.2020 03:35:55



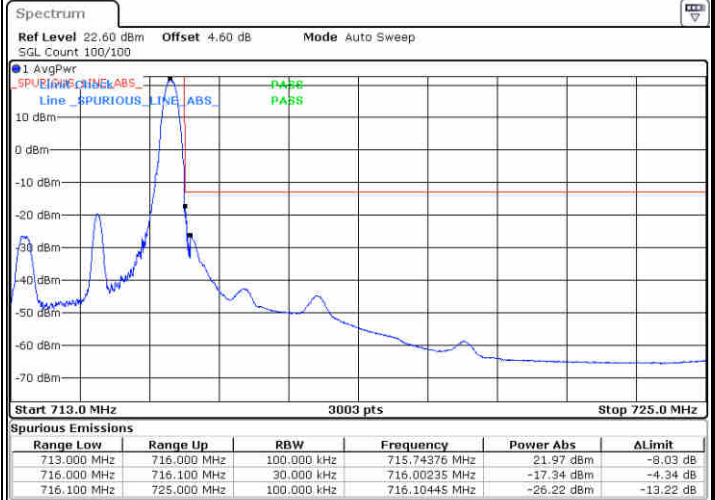
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 17.MAY.2020 03:49:01

Highest Band Edge / 1 RB



Date: 17.MAY.2020 03:54:38

Lowest Band Edge / Full RB



Date: 17.MAY.2020 03:50:08

Highest Band Edge / Full RB

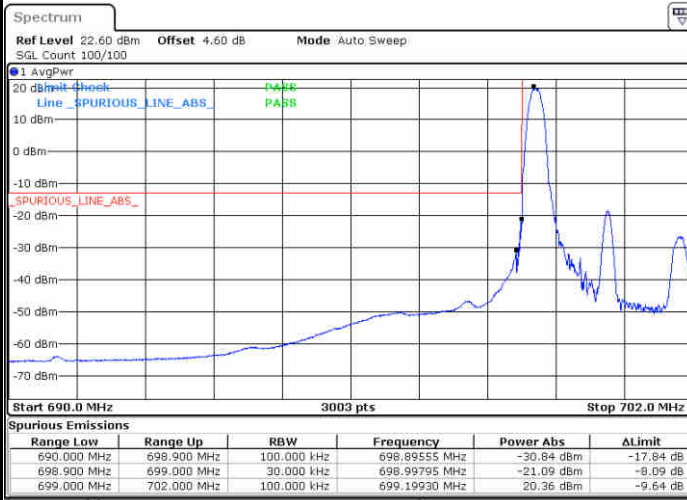


Date: 17.MAY.2020 03:53:31



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



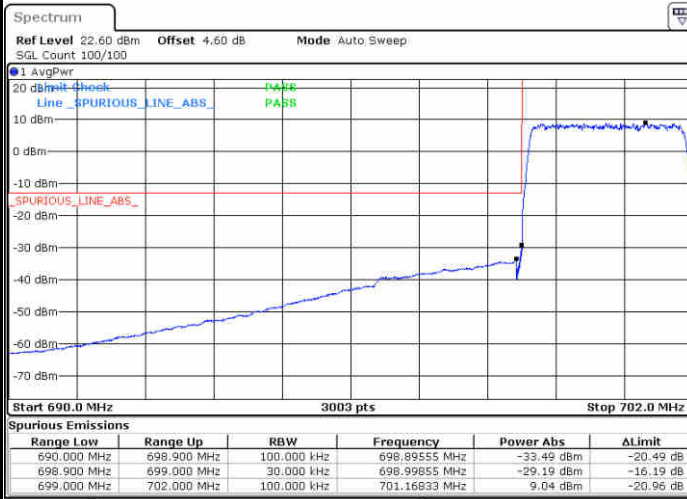
Date: 17.MAY.2020 03:47:53

Highest Band Edge / 1 RB



Date: 17.MAY.2020 03:55:46

Lowest Band Edge / Full RB



Date: 17.MAY.2020 03:51:16

Highest Band Edge / Full RB

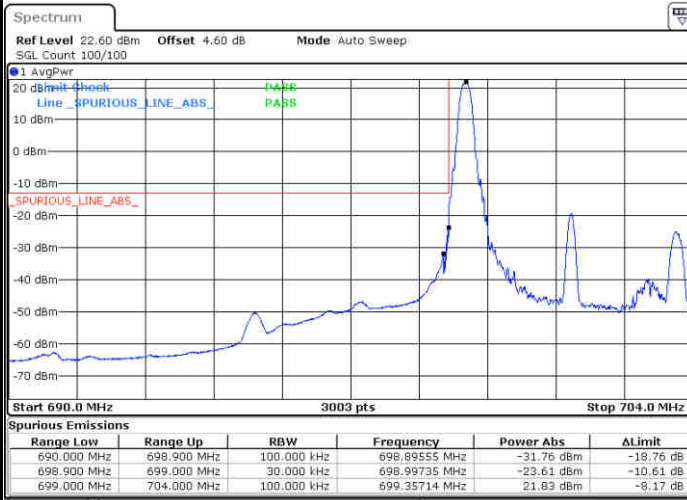


Date: 17.MAY.2020 03:52:23



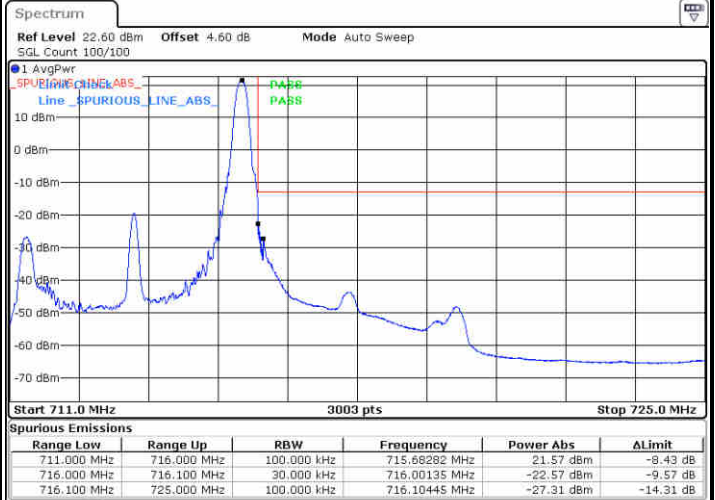
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 17.MAY.2020 04:05:29

Highest Band Edge / 1 RB



Date: 17.MAY.2020 04:11:06

Lowest Band Edge / Full RB



Date: 17.MAY.2020 04:06:36

Highest Band Edge / Full RB

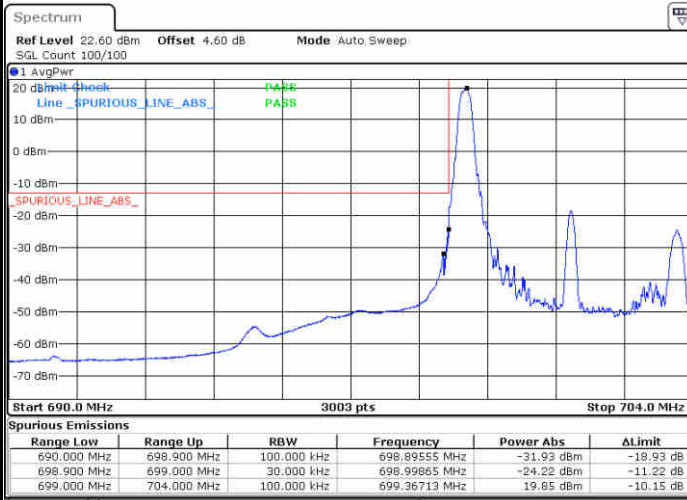


Date: 17.MAY.2020 04:09:59



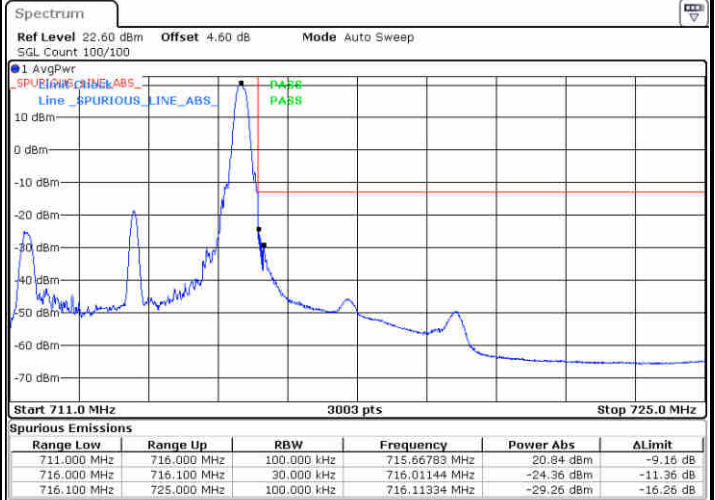
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 17.MAY.2020 04:04:21

Highest Band Edge / 1 RB



Date: 17.MAY.2020 04:12:14

Lowest Band Edge / Full RB



Date: 17.MAY.2020 04:07:44

Highest Band Edge / Full RB

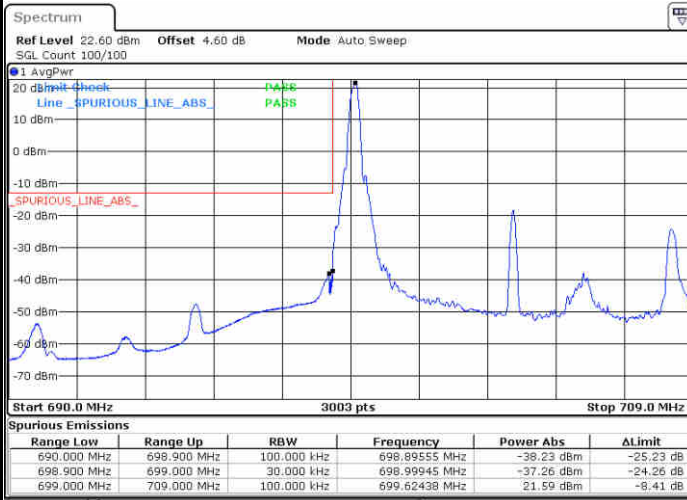


Date: 17.MAY.2020 04:08:51



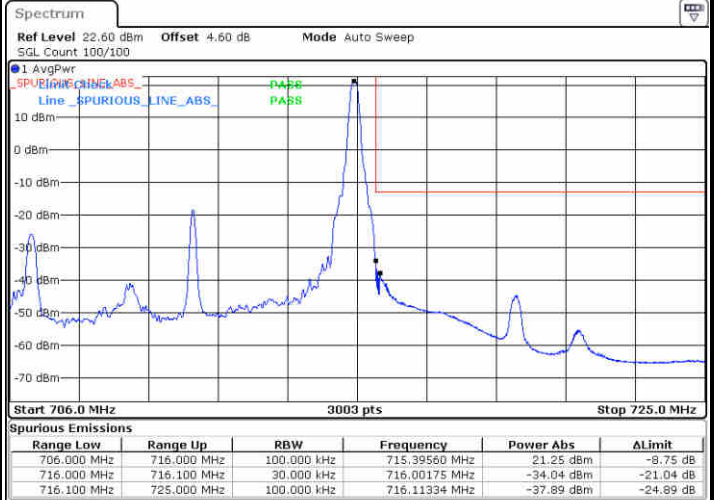
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



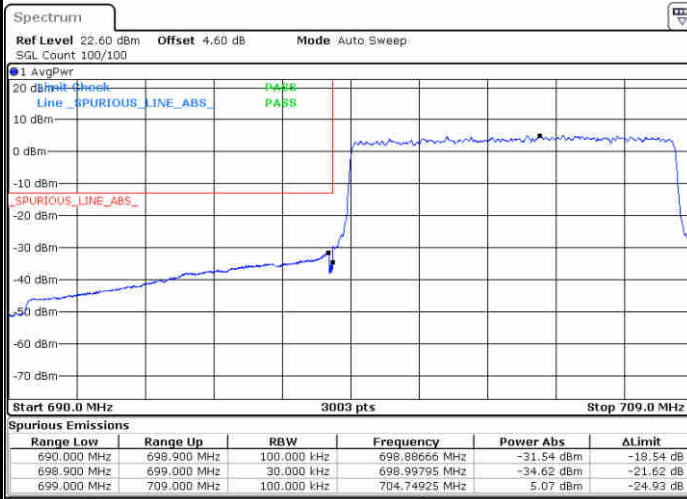
Date: 17.MAY.2020 04:21:57

Highest Band Edge / 1 RB



Date: 17.MAY.2020 04:27:34

Lowest Band Edge / Full RB



Date: 17.MAY.2020 04:23:04

Highest Band Edge / Full RB

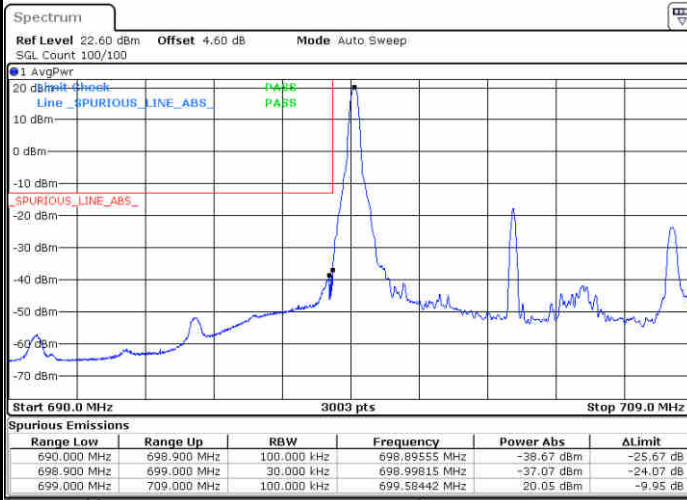


Date: 17.MAY.2020 04:28:27



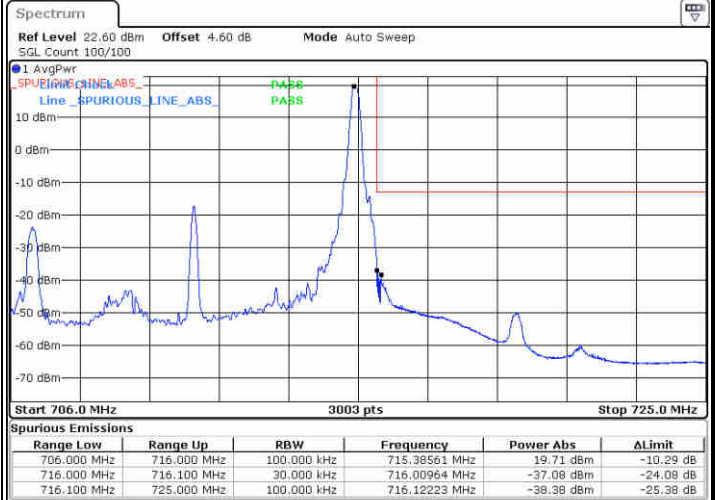
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



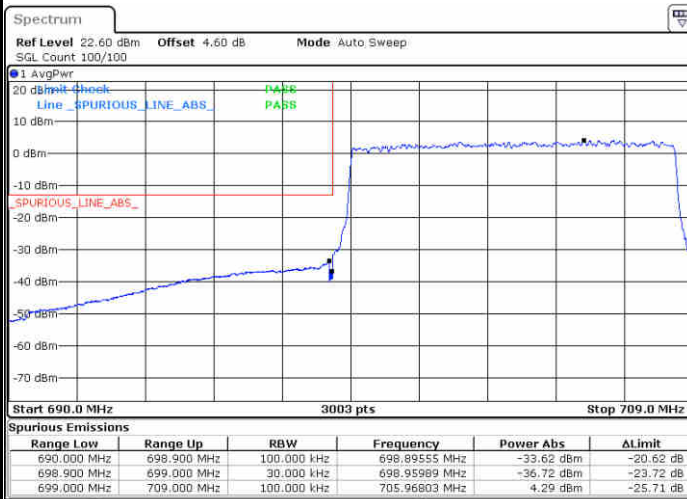
Date: 17.MAY.2020 04:20:49

Highest Band Edge / 1 RB



Date: 17.MAY.2020 04:28:42

Lowest Band Edge / Full RB



Date: 17.MAY.2020 04:24:12

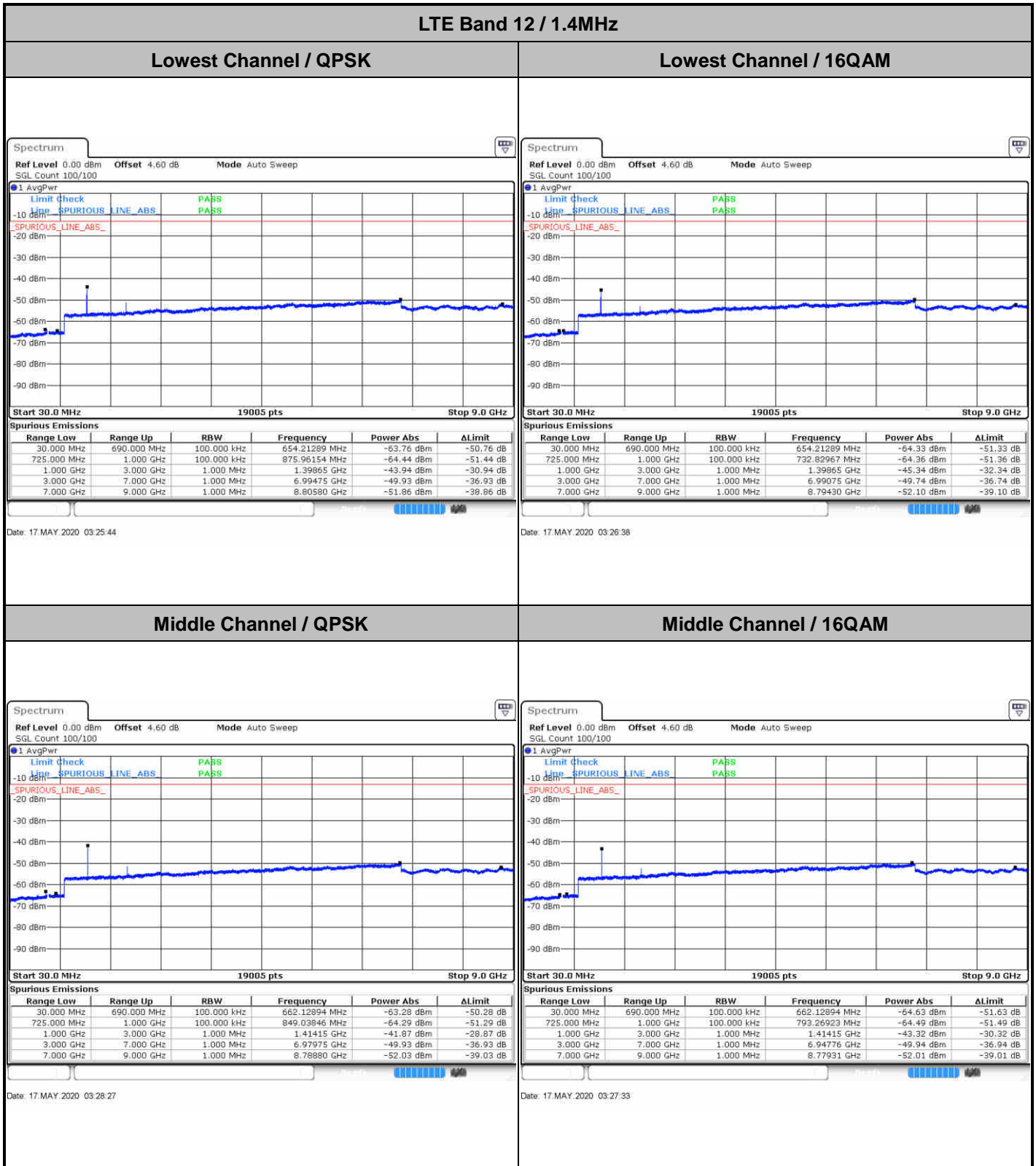
Highest Band Edge / Full RB



Date: 17.MAY.2020 04:25:19



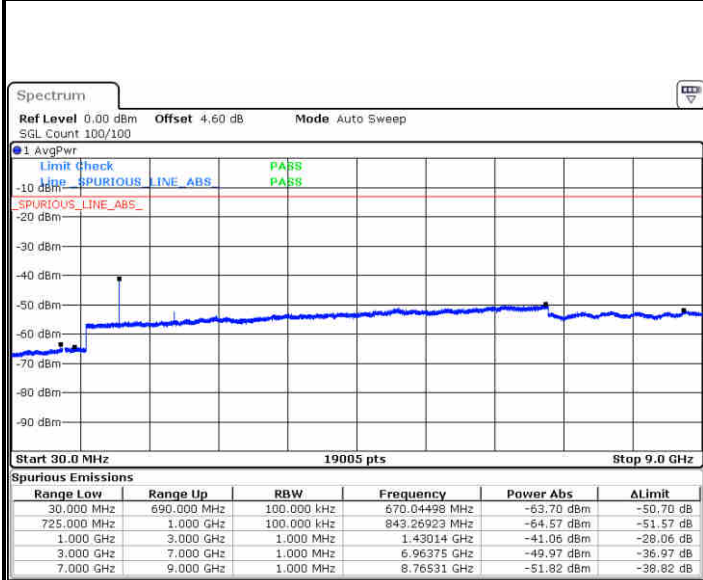
Conducted Spurious Emission





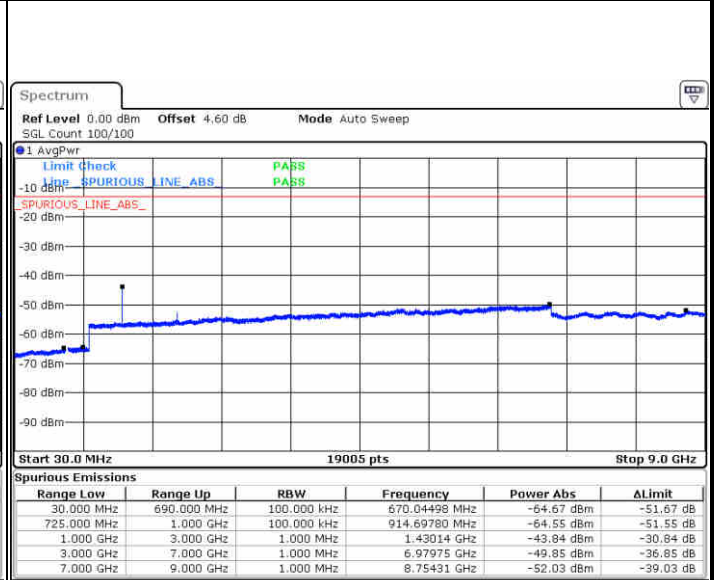
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 17.MAY.2020 03:29:22

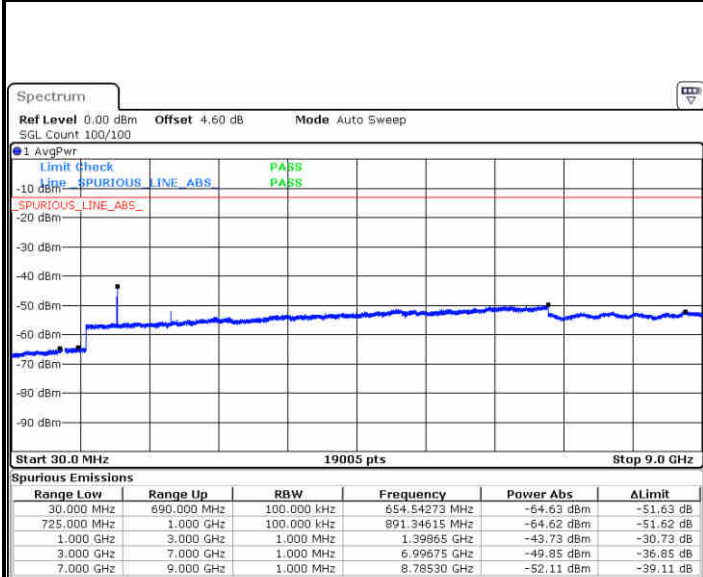
Highest Channel / 16QAM



Date: 17.MAY.2020 03:30:17

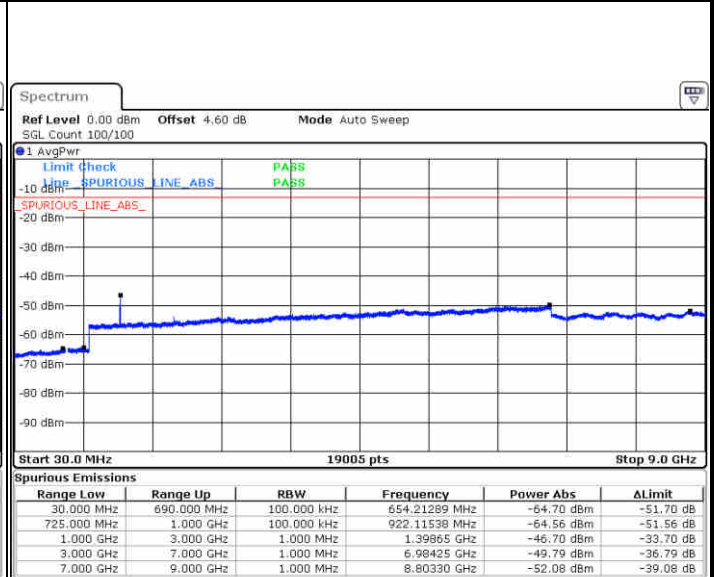
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 17.MAY.2020 03:42:12

Lowest Channel / 16QAM



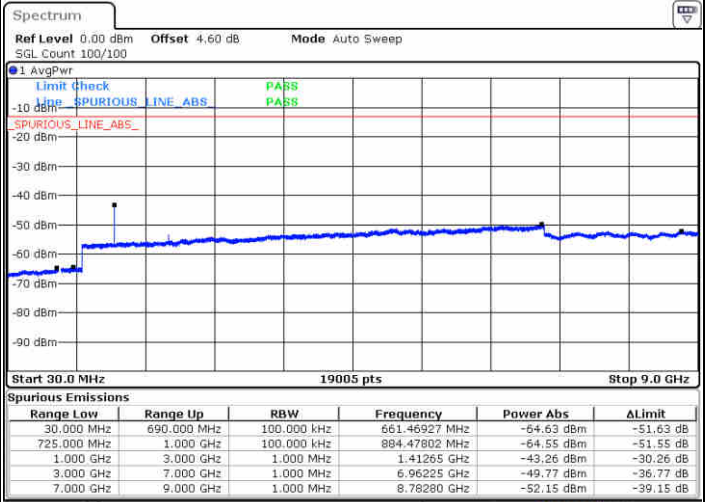
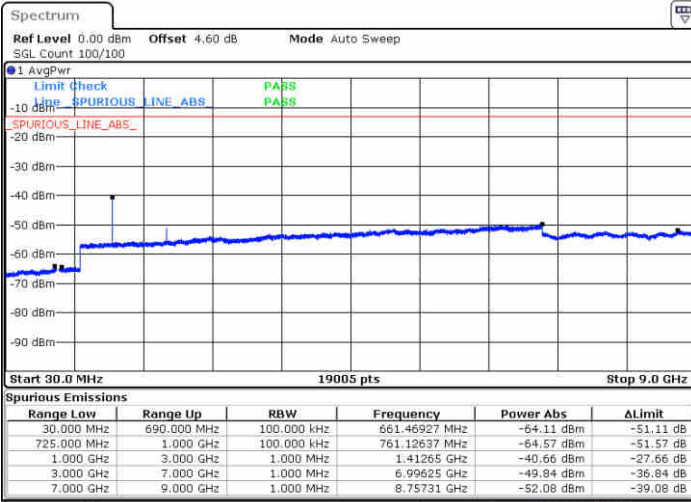
Date: 17.MAY.2020 03:43:06



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

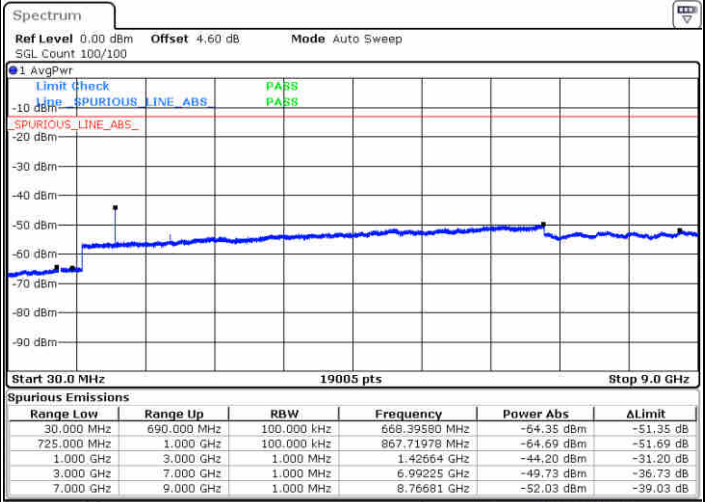
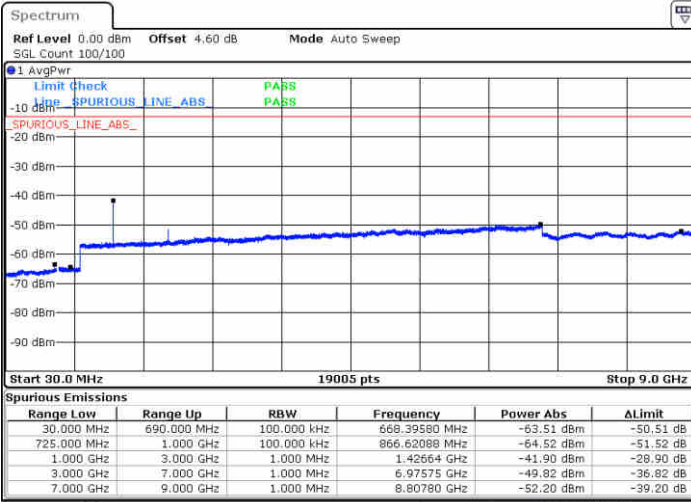


Date: 17.MAY.2020 03:44:55

Date: 17.MAY.2020 03:44:01

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17.MAY.2020 03:45:50

Date: 17.MAY.2020 03:46:45