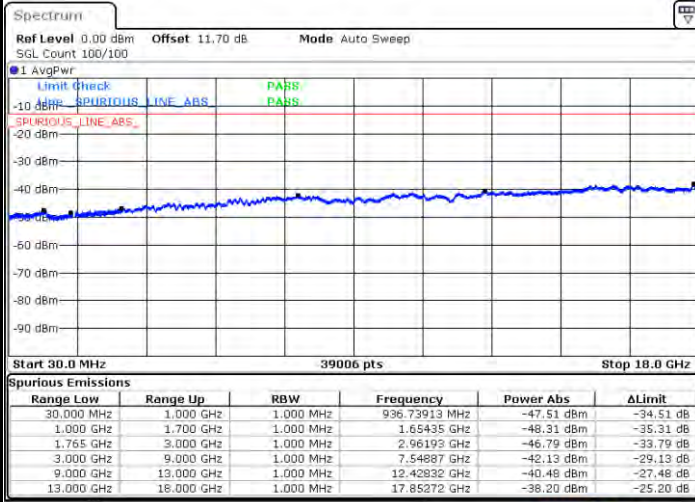




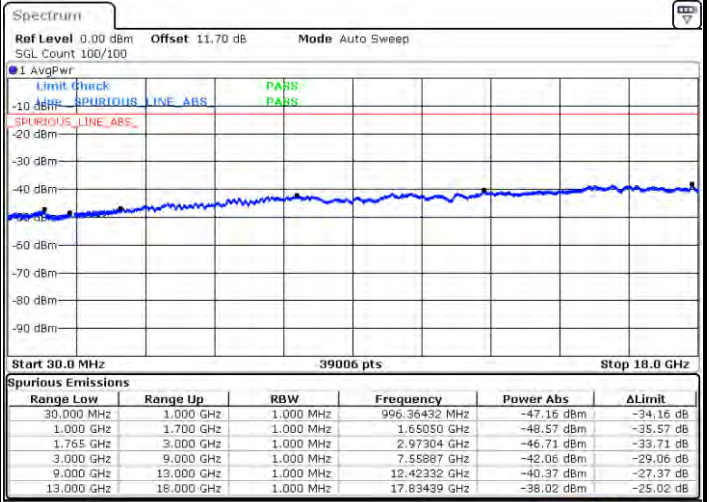
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 4 DEC 2019 11:45:08

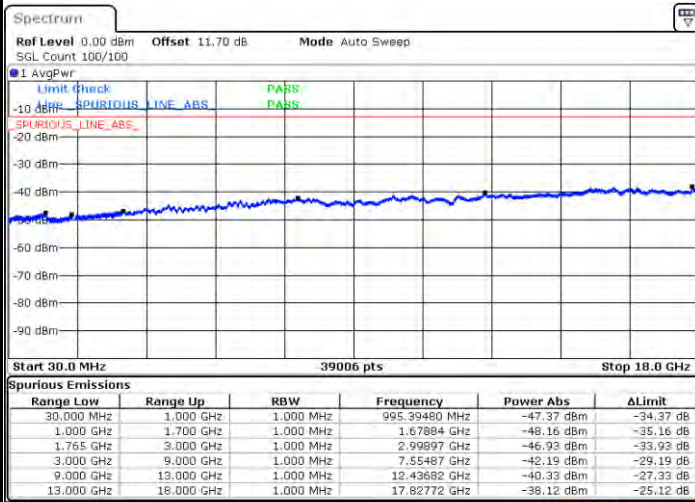
Highest Channel / 16QAM



Date: 4 DEC 2019 11:45:49

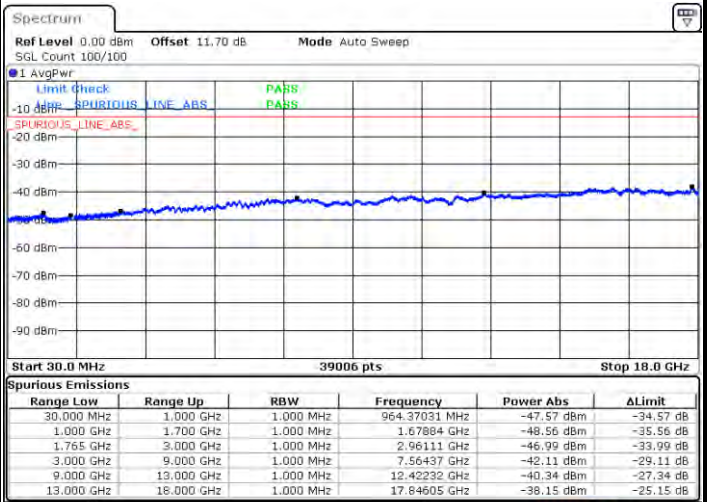
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 4 DEC 2019 11:51:22

Lowest Channel / 16QAM



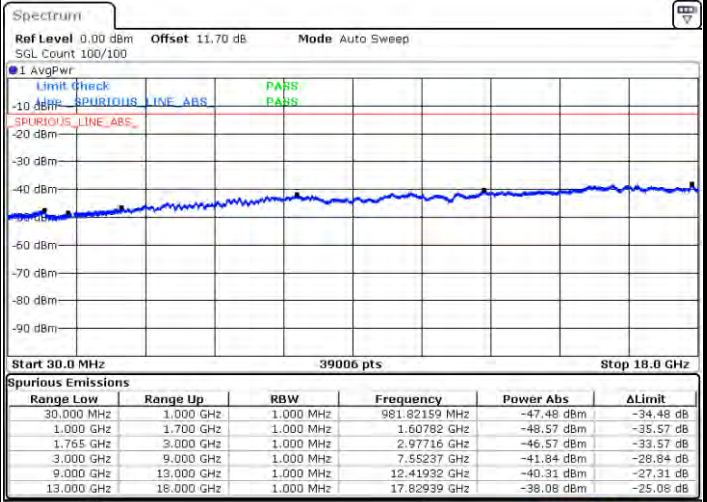
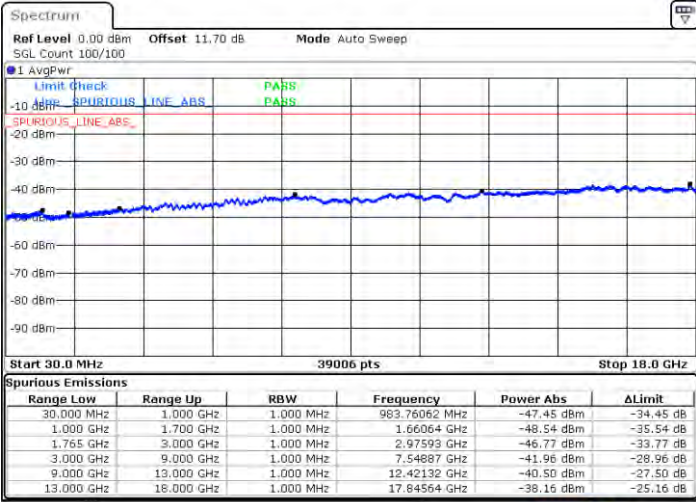
Date: 4 DEC 2019 11:52:03



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

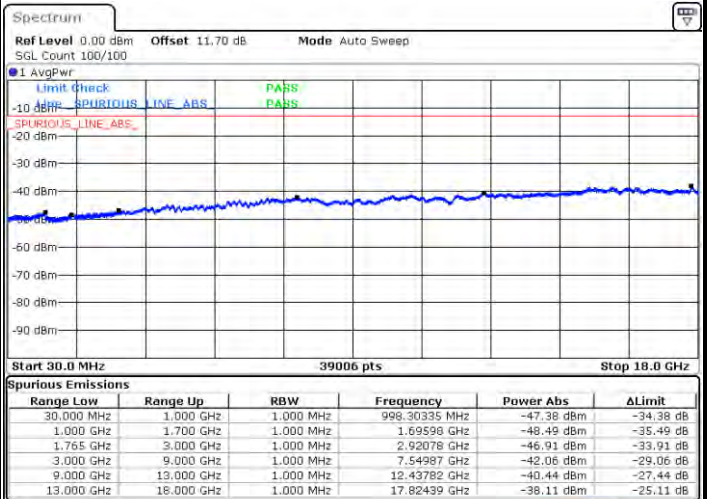
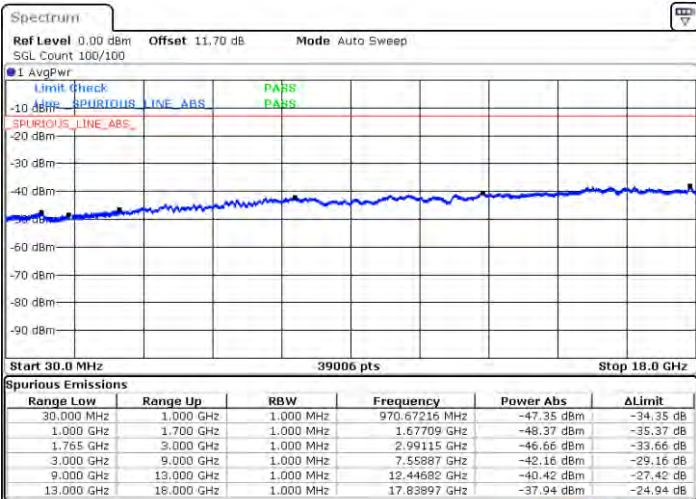


Date: 4 DEC.2019 11:53:30

Date: 4 DEC.2019 11:54:10

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 DEC.2019 13:37:45

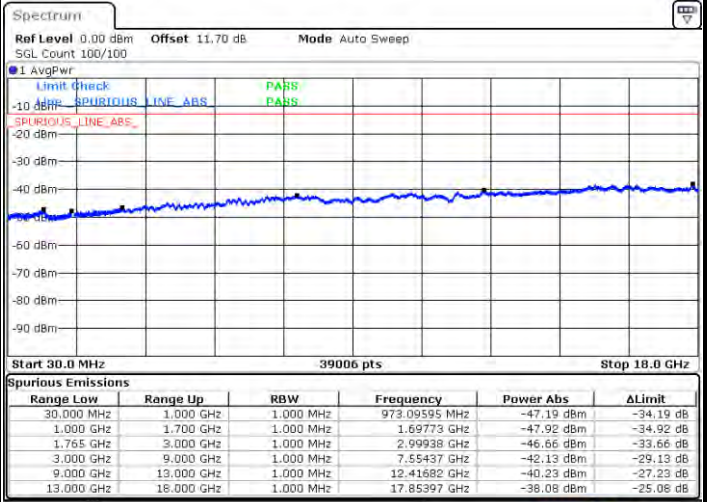
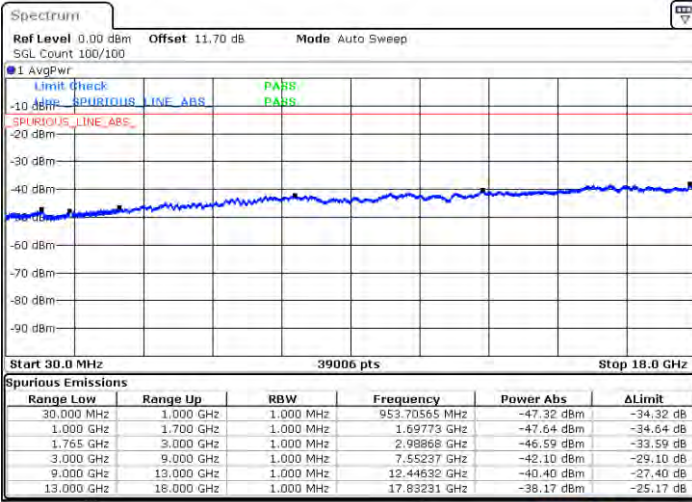
Date: 4 DEC.2019 13:38:26



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

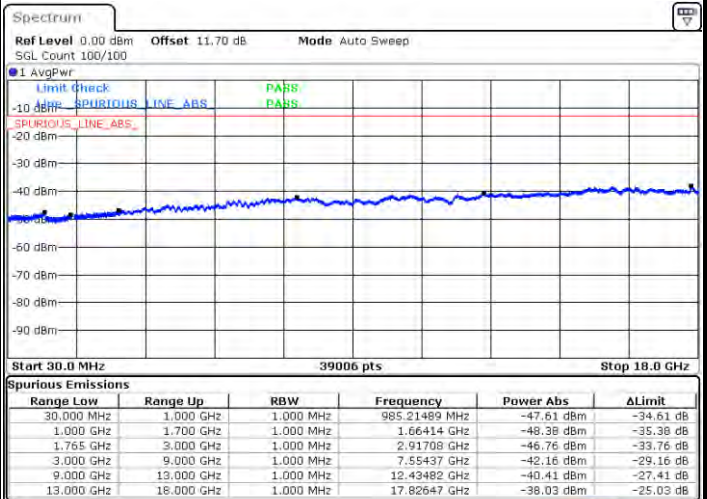
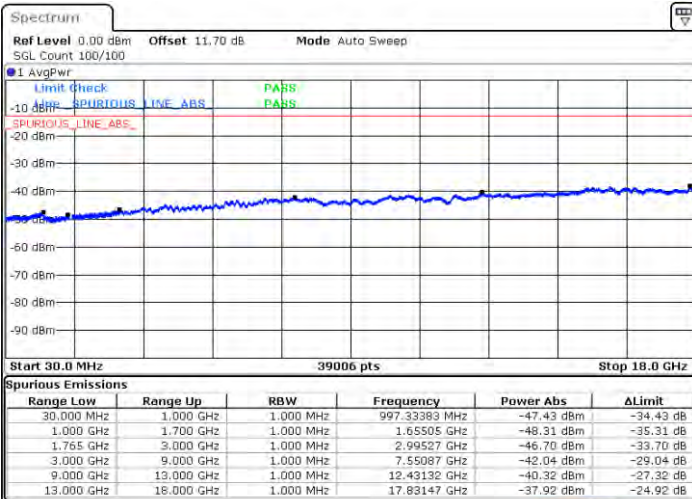


Date: 4 DEC.2019 13:51:14

Date: 4 DEC.2019 13:51:55

Middle Channel / QPSK

Middle Channel / 16QAM



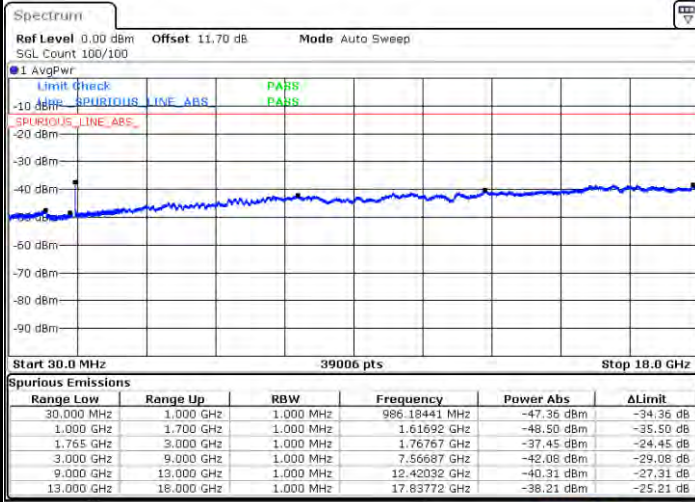
Date: 4 DEC.2019 13:53:22

Date: 4 DEC.2019 13:54:03



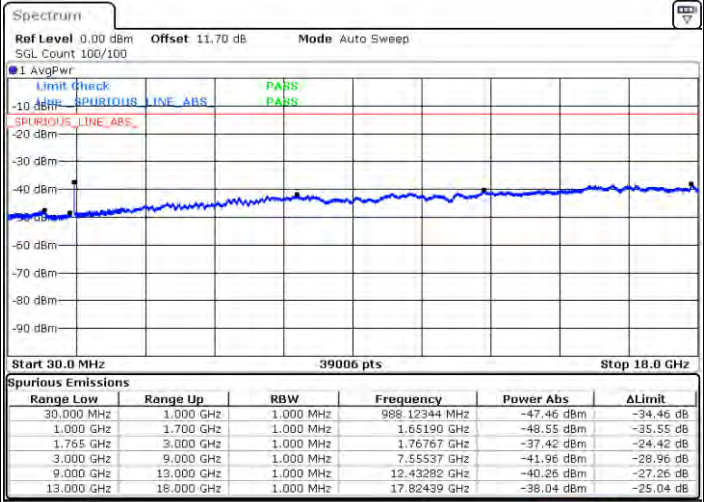
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 DEC 2019 13:59:35

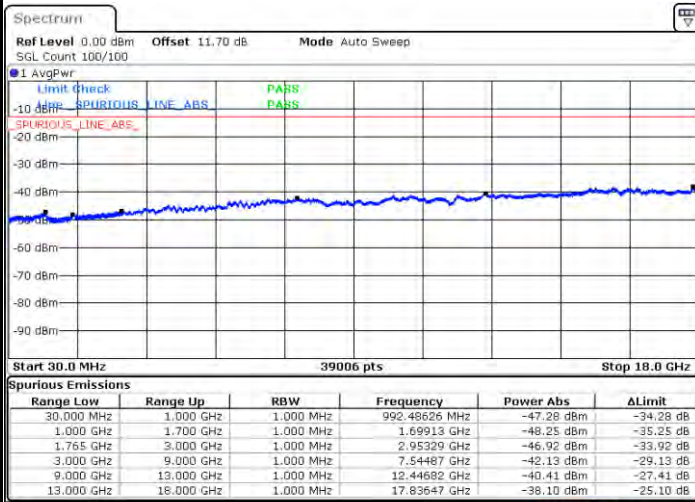
Highest Channel / 16QAM



Date: 4 DEC 2019 14:00:16

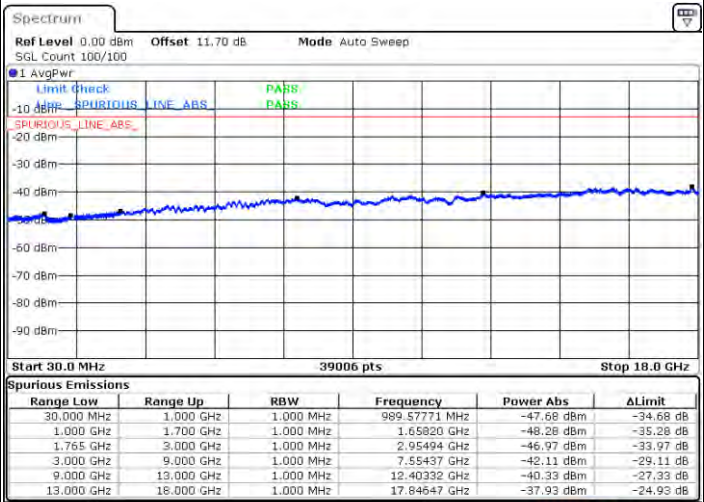
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 DEC 2019 14:13:04

Lowest Channel / 16QAM

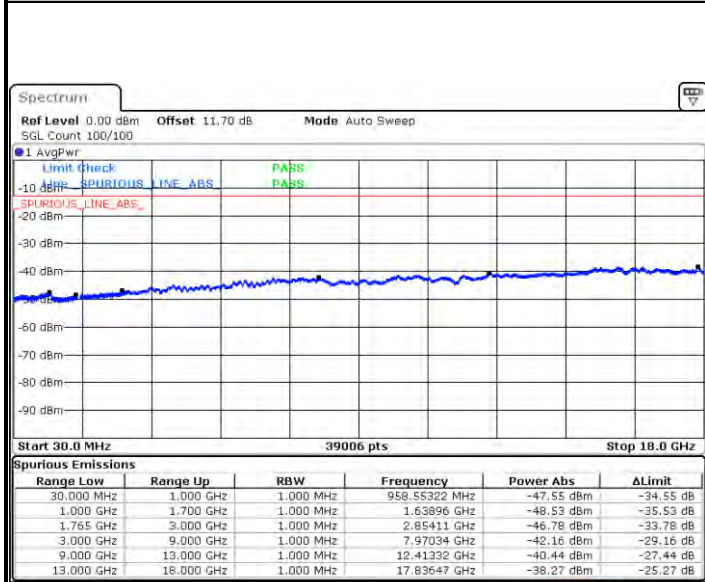


Date: 4 DEC 2019 14:13:45



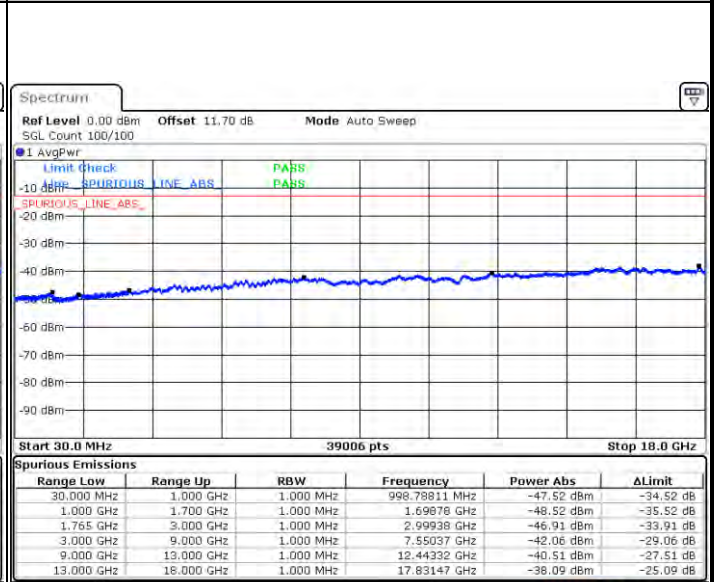
LTE Band 4 / 20MHz

Middle Channel / QPSK



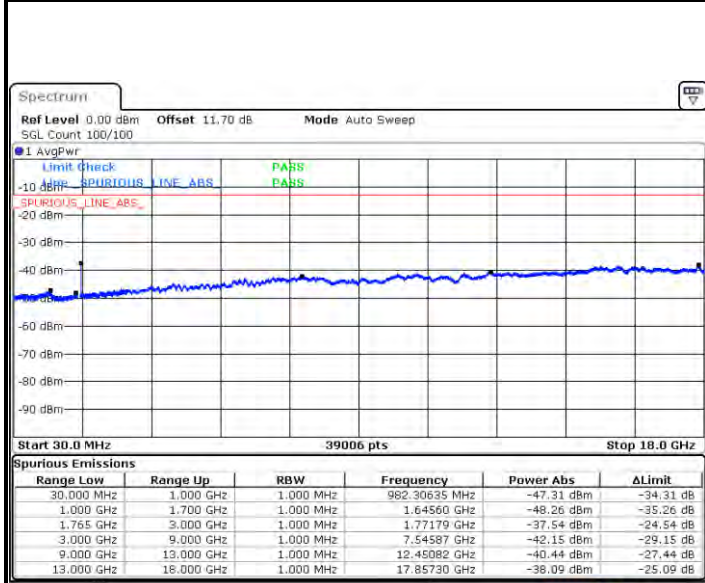
Date: 4 DEC.2019 14:15:11

Middle Channel / 16QAM



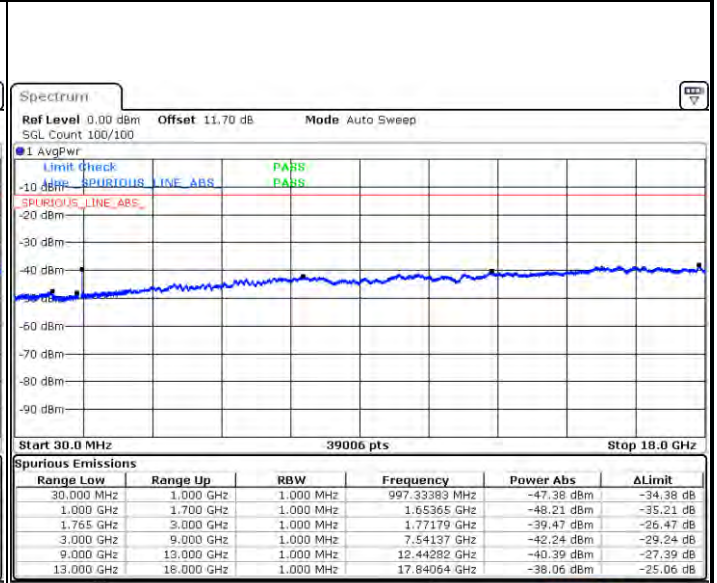
Date: 4 DEC.2019 14:15:52

Highest Channel / QPSK



Date: 4 DEC.2019 14:21:23

Highest Channel / 16QAM



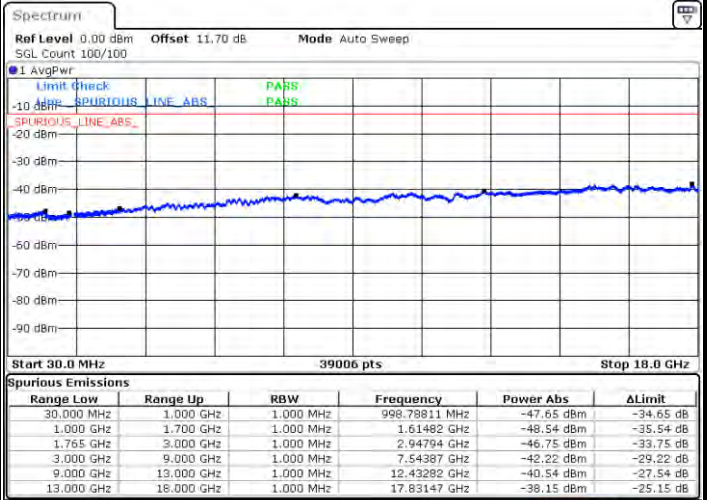
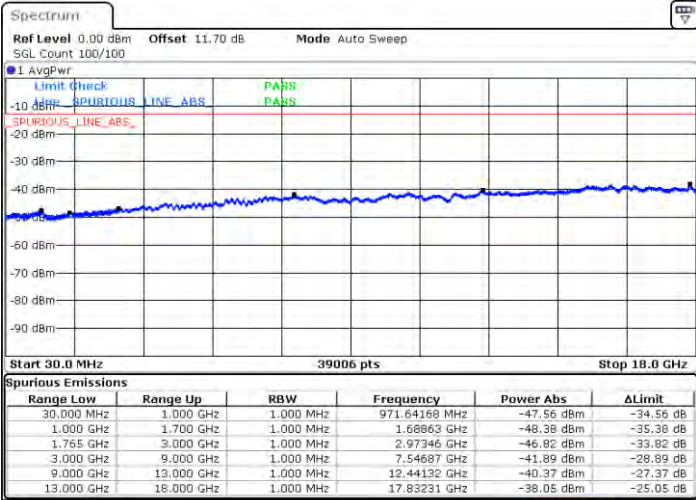
Date: 4 DEC.2019 14:22:04



LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

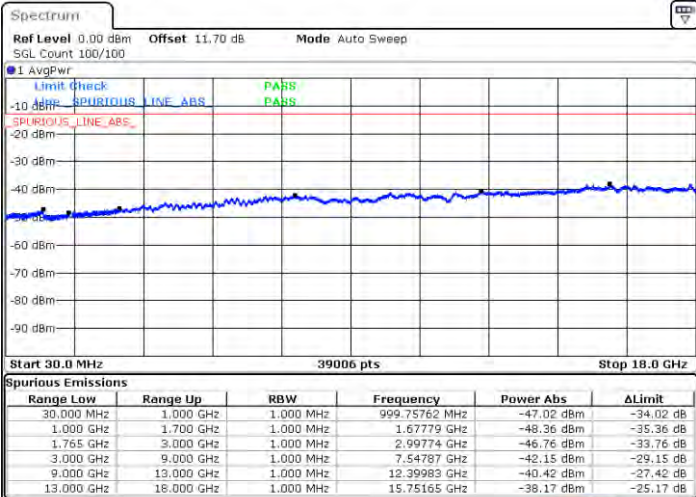
Middle Channel / 64QAM



Date: 4 DEC.2019 10:57:54

Date: 4 DEC.2019 10:58:57

Highest Channel / 64QAM



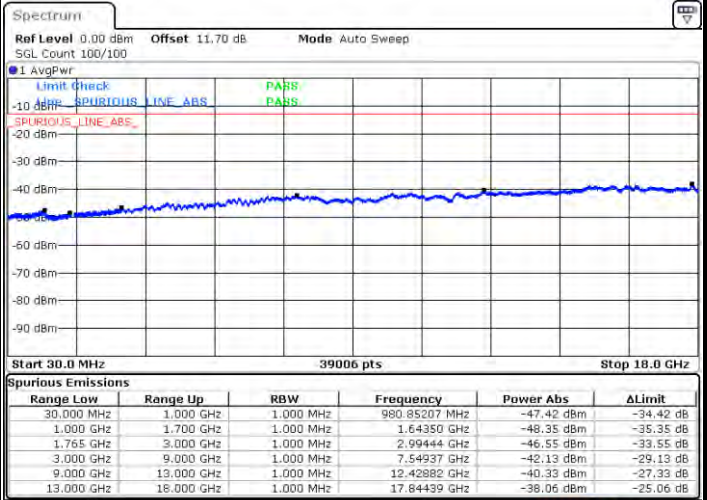
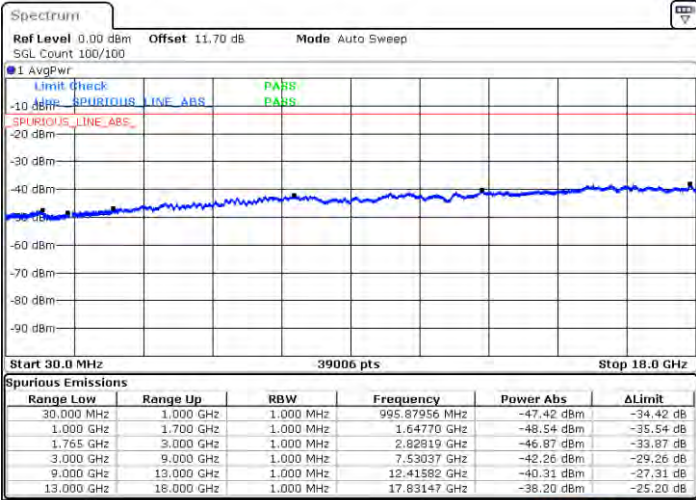
Date: 4 DEC.2019 11:02:10



LTE Band 4 / 3MHz

Lowest Channel / 64QAM

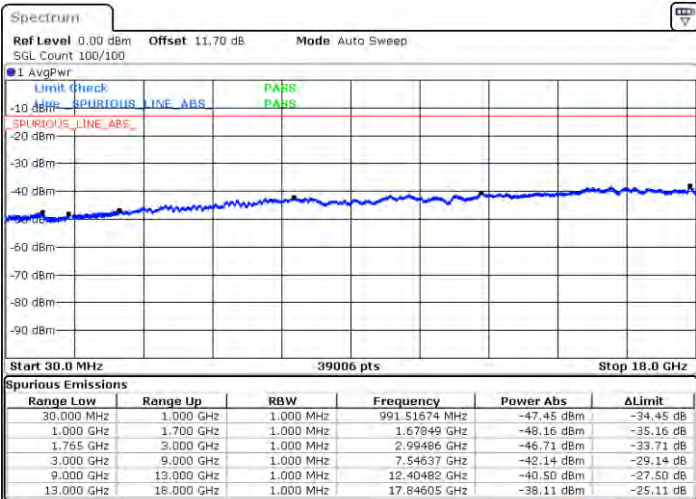
Middle Channel / 64QAM



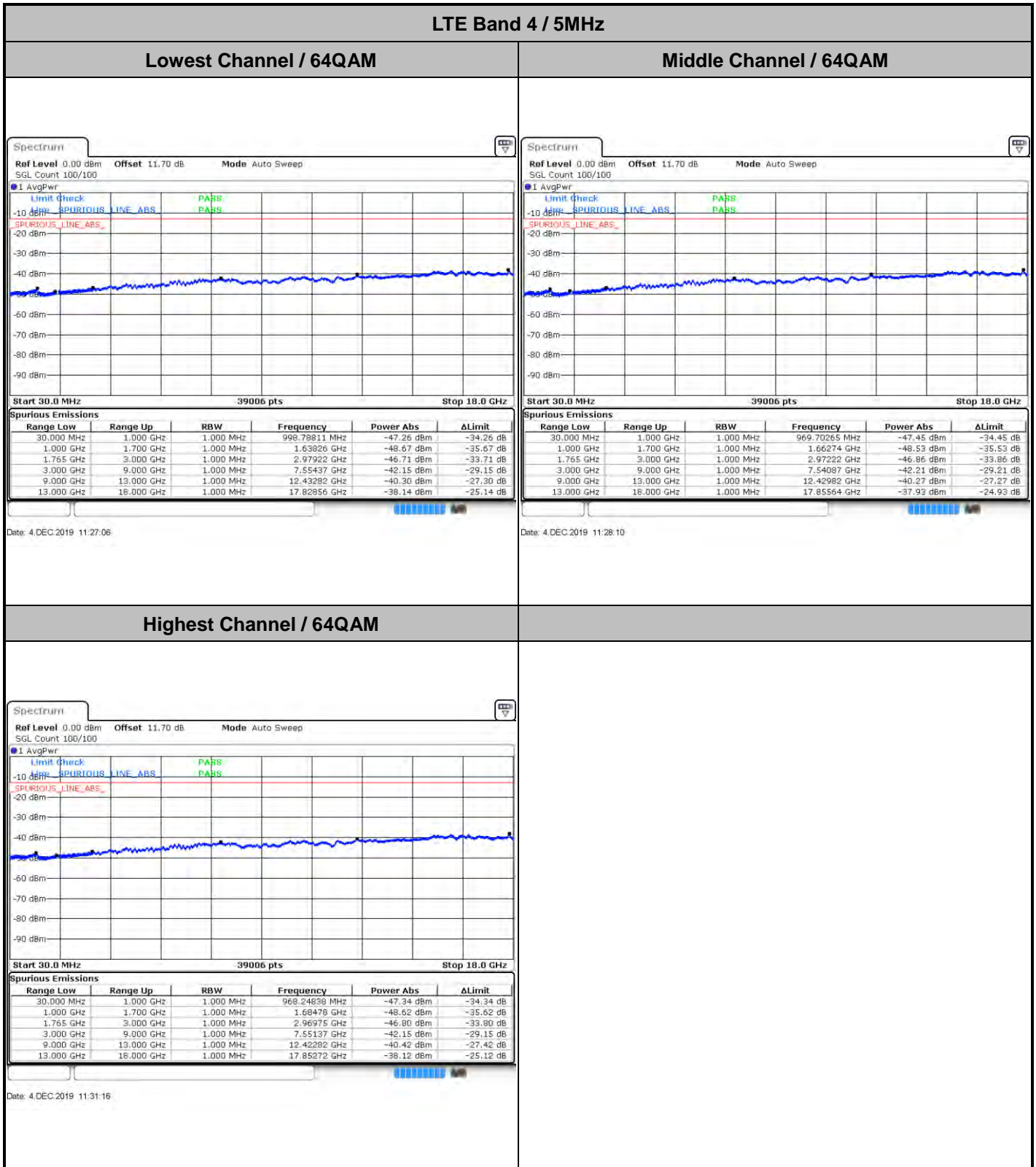
Date: 4 DEC.2019 11:19:49

Date: 4 DEC.2019 11:20:53

Highest Channel / 64QAM



Date: 4 DEC.2019 11:23:59

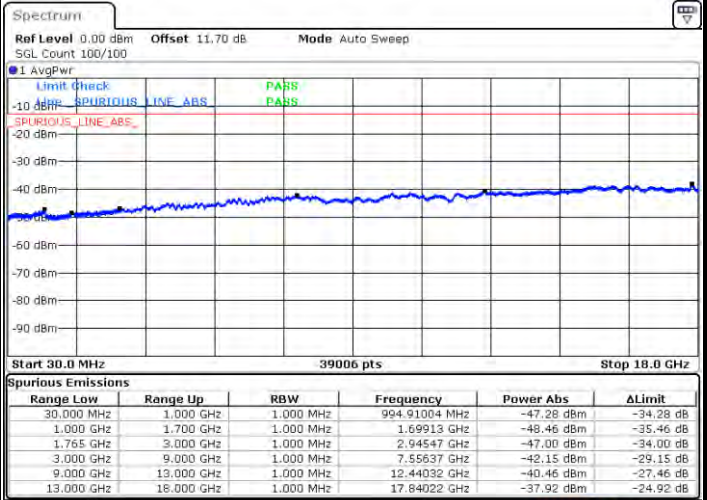
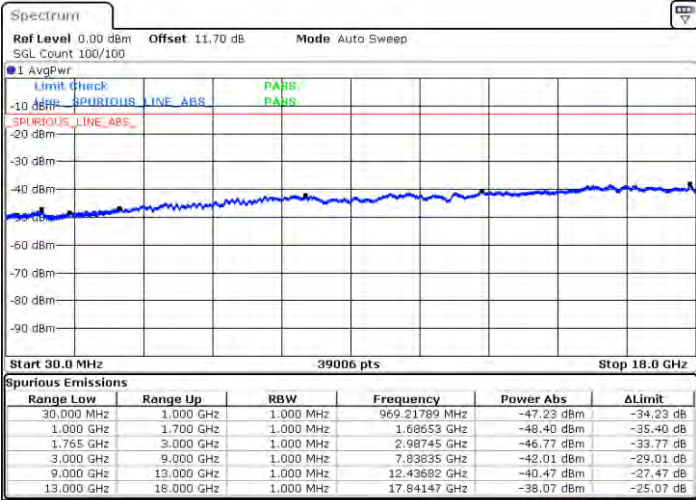




LTE Band 4 / 10MHz

Lowest Channel / 64QAM

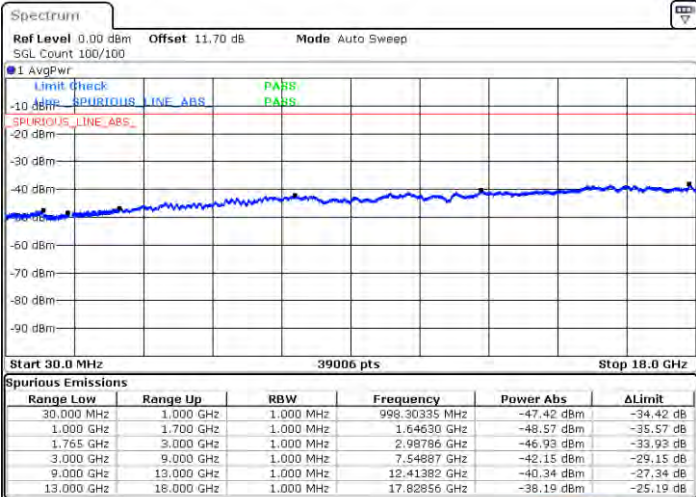
Middle Channel / 64QAM



Date: 4 DEC.2019 13:41:32

Date: 4 DEC.2019 13:42:36

Highest Channel / 64QAM

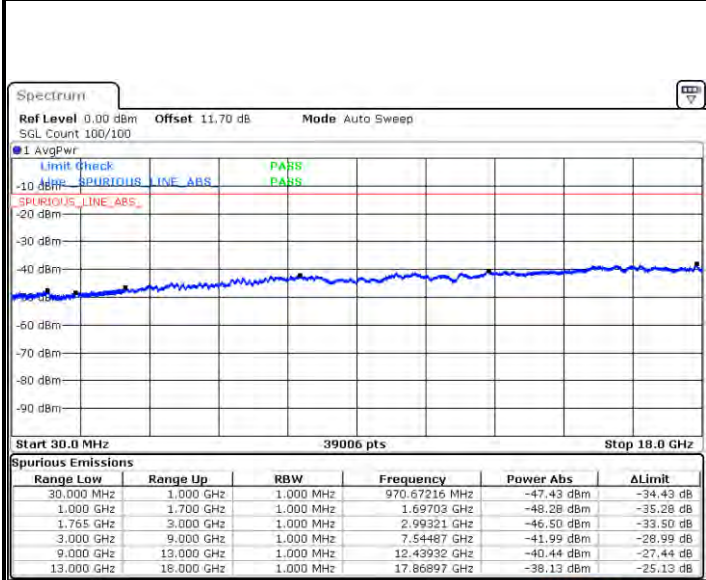


Date: 4 DEC.2019 13:45:42



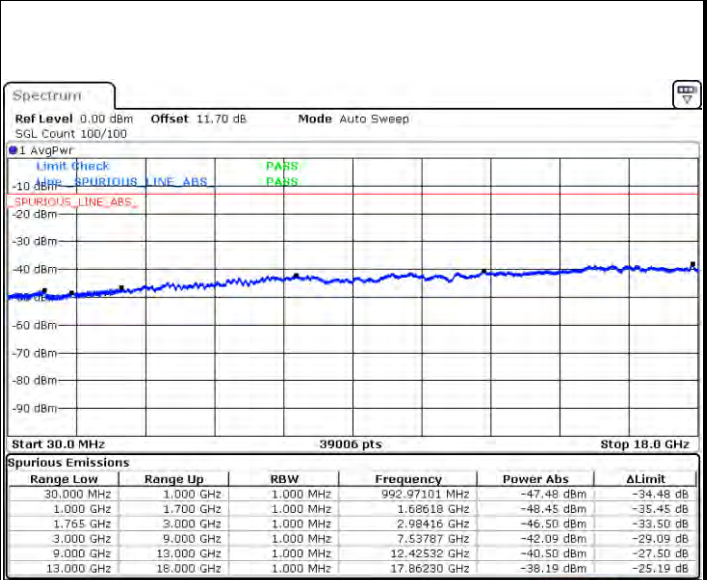
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



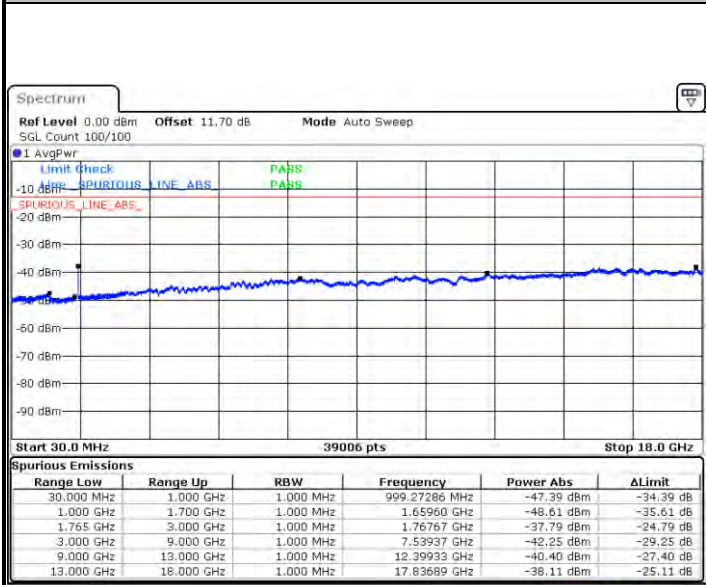
Date: 4 DEC.2019 14:03:22

Middle Channel / 64QAM



Date: 4 DEC.2019 14:04:25

Highest Channel / 64QAM

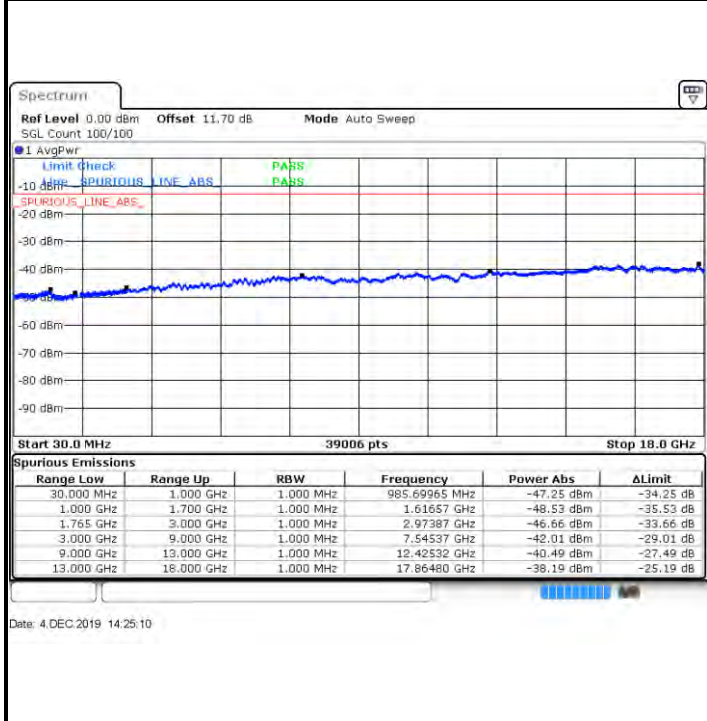


Date: 4 DEC.2019 14:07:31

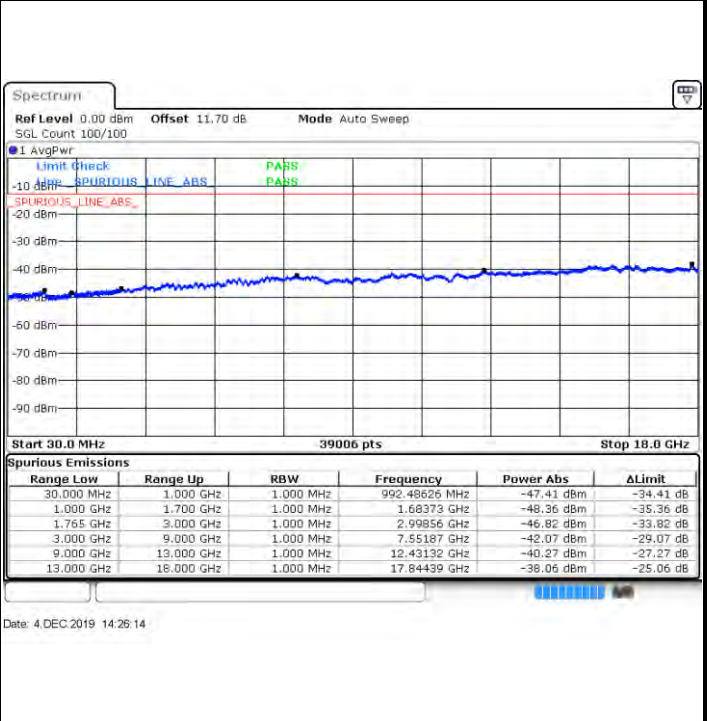


LTE Band 4 / 20MHz

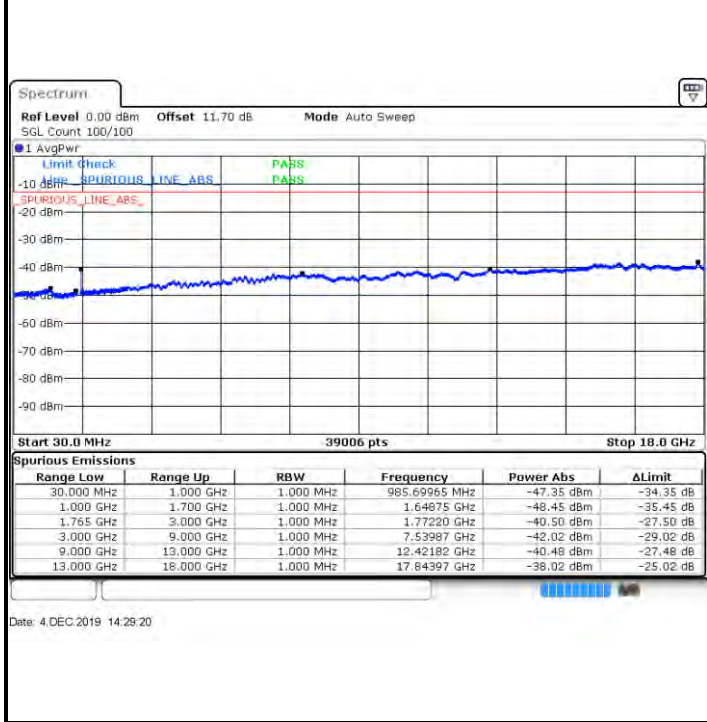
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

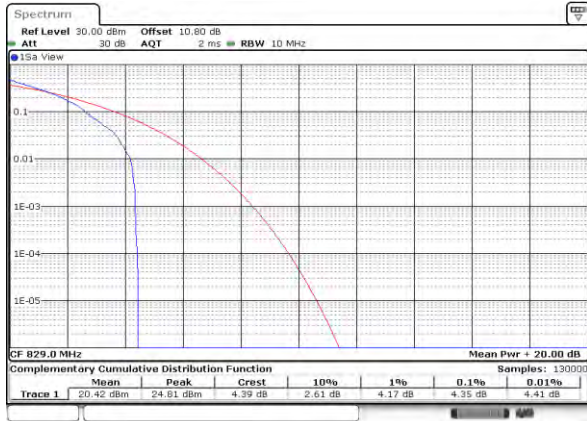
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	5.07	4.96	6.03	PASS
Middle CH	4.43	5.10	5.04	6.06	
Highest CH	4.35	4.87	4.78	5.88	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.23	6.67	-	-	PASS
Middle CH	6.32	6.64	-	-	
Highest CH	5.91	6.41	-	-	



LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



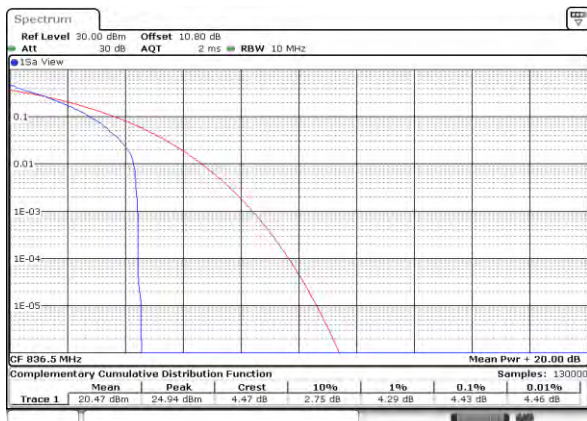
Date: 4 DEC 2019 23:21:23

Lowest Channel / Full RB



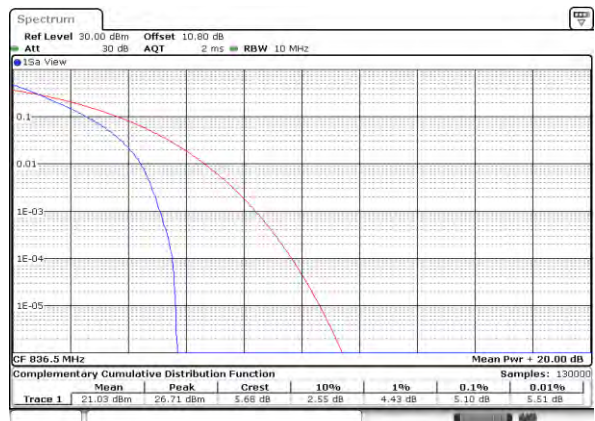
Date: 4 DEC 2019 23:21:33

Middle Channel / 1RB



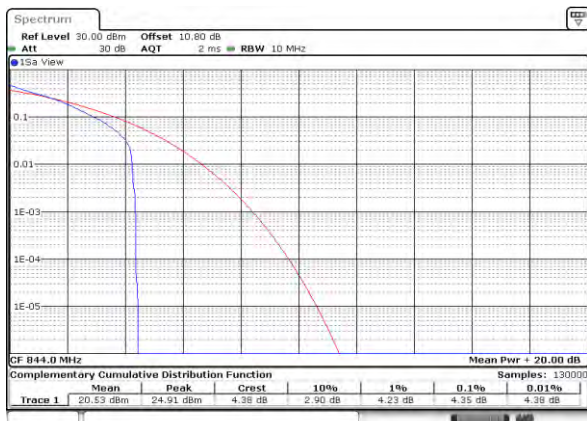
Date: 4 DEC 2019 23:21:44

Middle Channel / Full RB



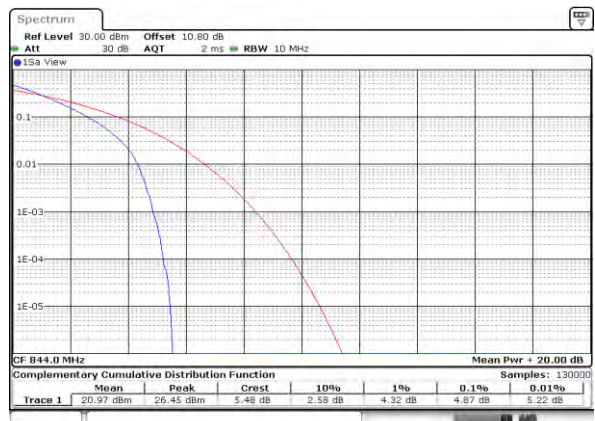
Date: 4 DEC 2019 23:21:53

Highest Channel / 1RB



Date: 4 DEC 2019 23:22:03

Highest Channel / Full RB



Date: 4 DEC 2019 23:22:13



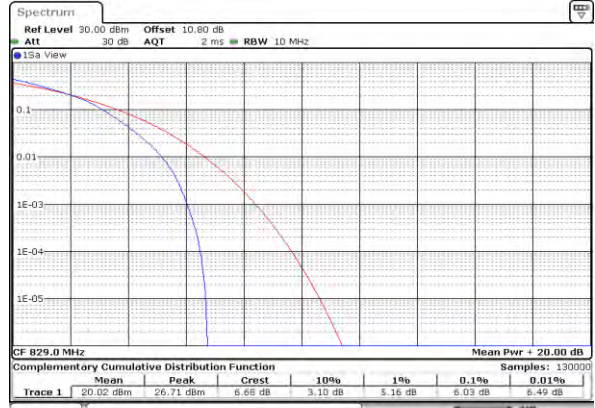
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



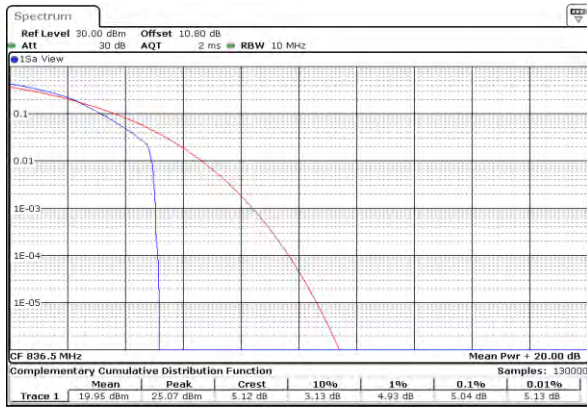
Date: 4 DEC 2019 23:17:47

Lowest Channel / Full RB



Date: 4 DEC 2019 23:17:58

Middle Channel / 1RB



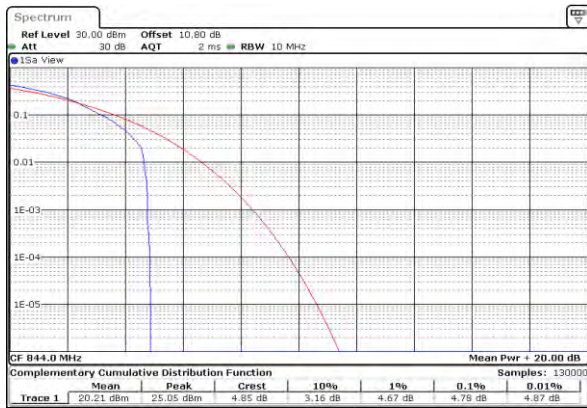
Date: 4 DEC 2019 23:26:21

Middle Channel / Full RB



Date: 4 DEC 2019 23:20:43

Highest Channel / 1RB



Date: 4 DEC 2019 23:20:57

Highest Channel / Full RB

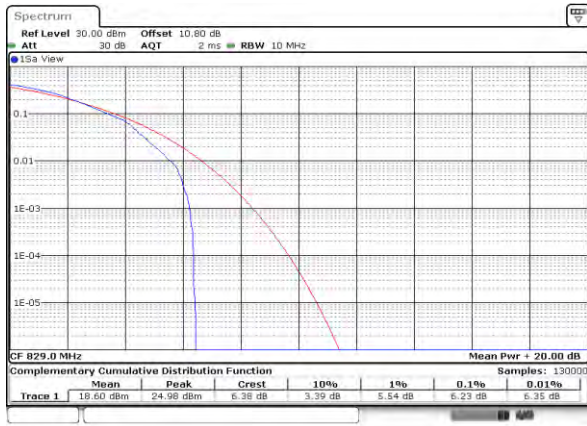


Date: 4 DEC 2019 23:21:12



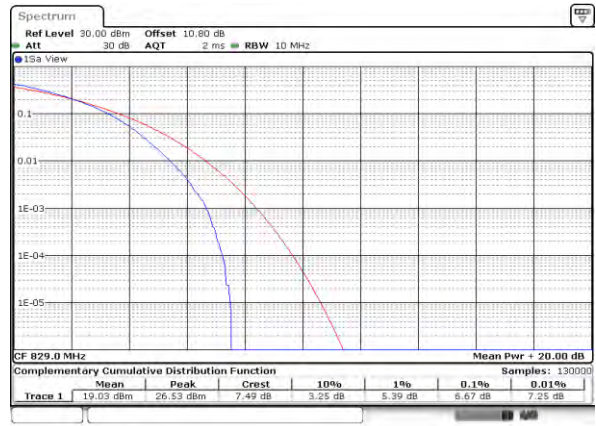
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



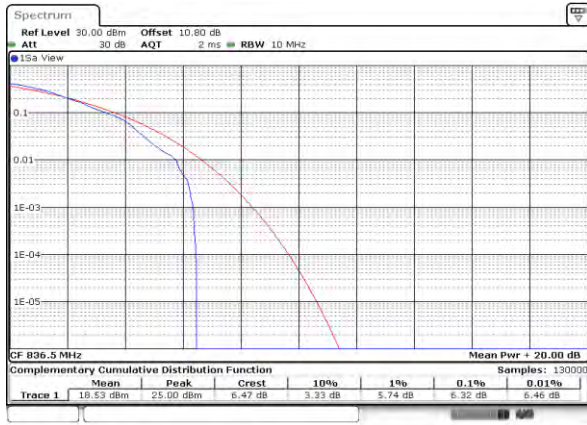
Date: 4 DEC 2019 23:22:27

Lowest Channel / Full RB



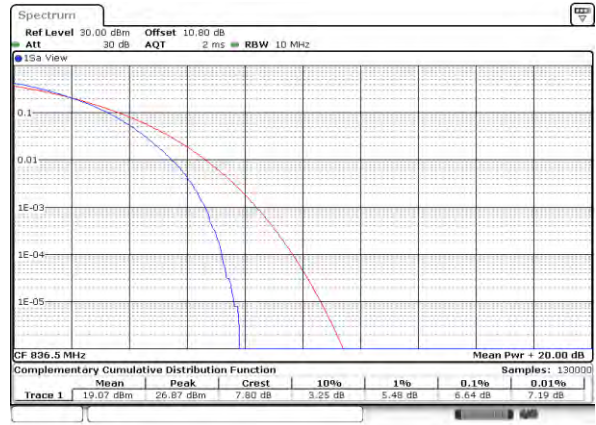
Date: 4 DEC 2019 23:22:42

Middle Channel / 1RB



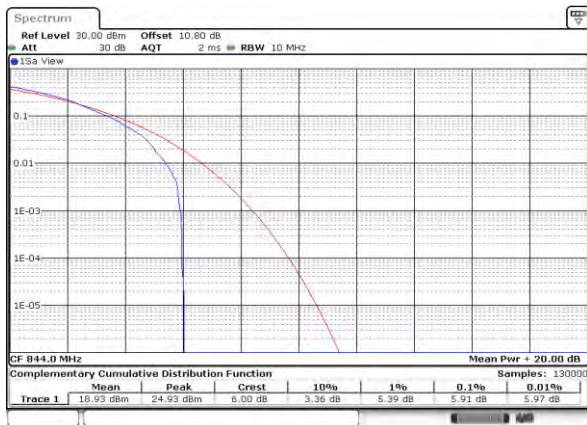
Date: 4 DEC 2019 23:22:53

Middle Channel / Full RB



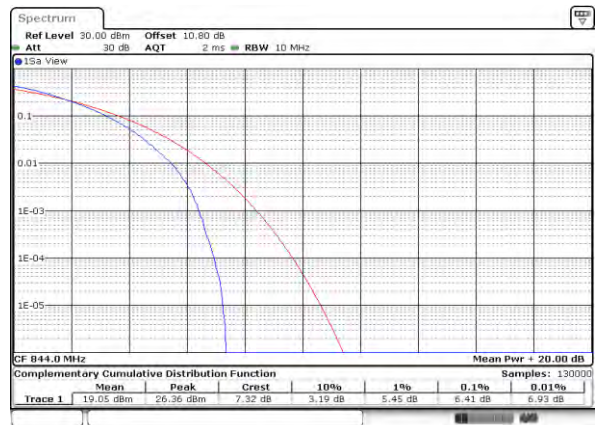
Date: 4 DEC 2019 23:23:10

Highest Channel / 1RB



Date: 4 DEC 2019 23:23:21

Highest Channel / Full RB



Date: 4 DEC 2019 23:23:42



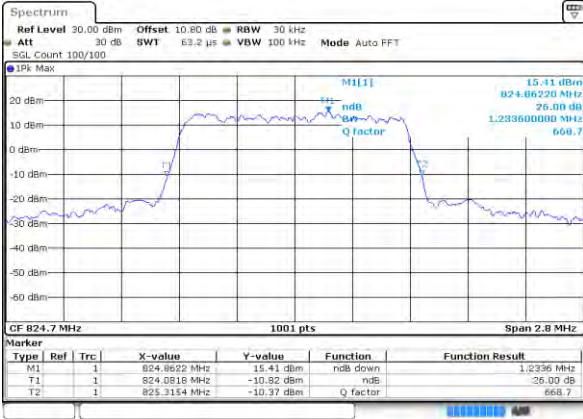
26dB Bandwidth

Mode	LTE Band 5 : 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	1.23	1.23	3.00	2.96	4.90	4.88	9.69	9.75	-	-	-	-
Middle CH	1.22	1.22	2.97	3.00	4.92	4.90	9.71	9.85	-	-	-	-
Highest CH	1.24	1.23	3.05	3.07	4.87	4.88	9.81	9.75	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	2.97	-	4.98	-	9.83	-	-	-	-	-
Middle CH	1.24	-	2.97	-	4.87	-	9.87	-	-	-	-	-
Highest CH	1.23	-	3.03	-	4.85	-	9.85	-	-	-	-	-



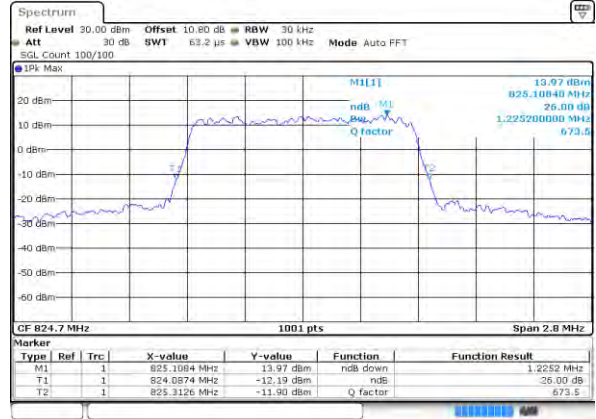
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



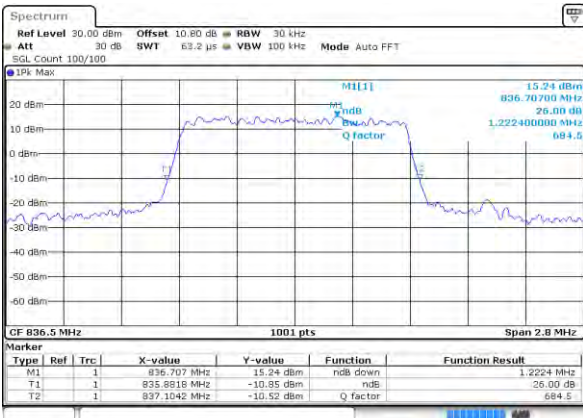
Date: 4 DEC 2019 22:51:46

Lowest Channel / 1.4MHz / 16QAM



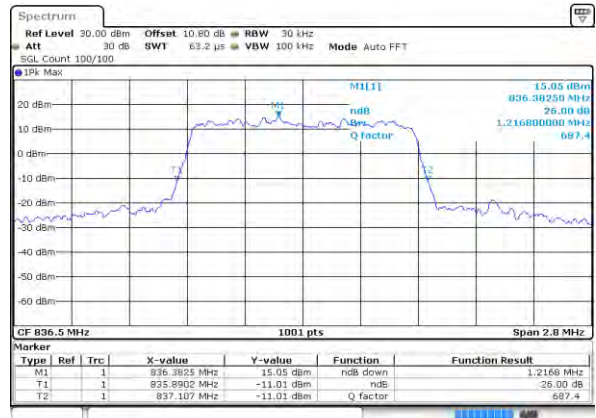
Date: 4 DEC 2019 22:51:34

Middle Channel / 1.4MHz / QPSK



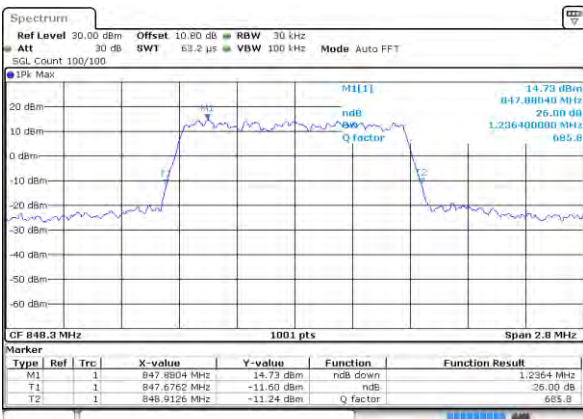
Date: 4 DEC 2019 22:57:08

Middle Channel / 1.4MHz / 16QAM



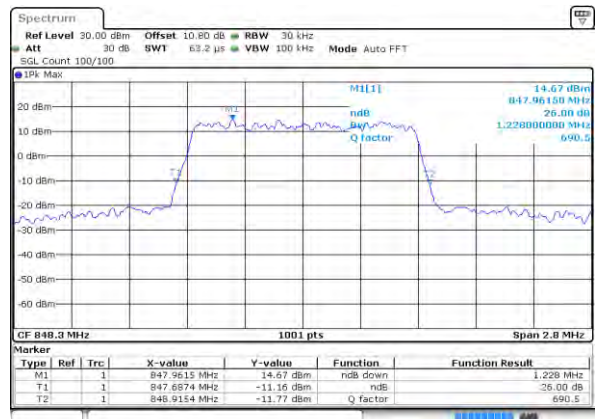
Date: 4 DEC 2019 22:57:16

Highest Channel / 1.4MHz / QPSK



Date: 4 DEC 2019 22:59:14

Highest Channel / 1.4MHz / 16QAM

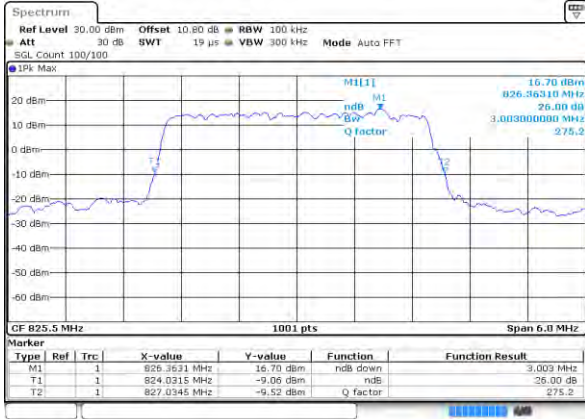


Date: 4 DEC 2019 22:59:28



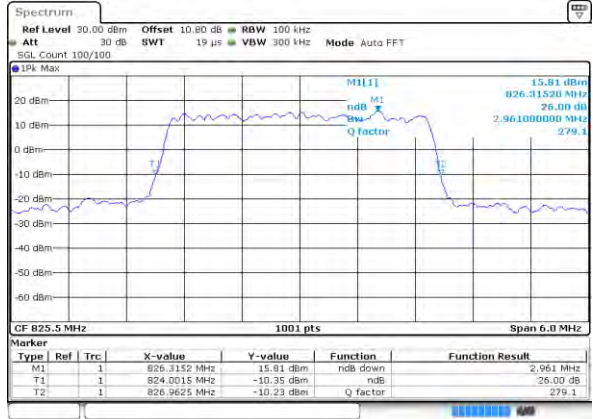
LTE Band 5

Lowest Channel / 3MHz / QPSK



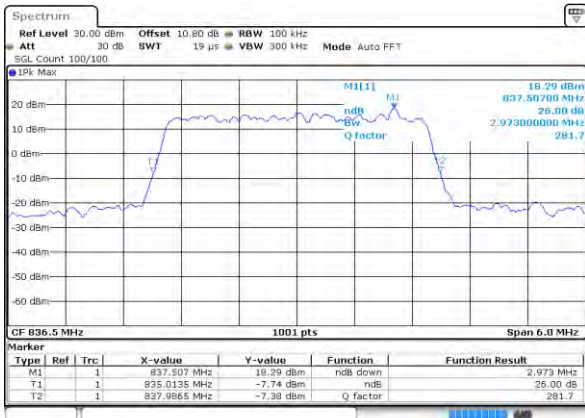
Date: 4 DEC 2019 18:01:24

Lowest Channel / 3MHz / 16QAM



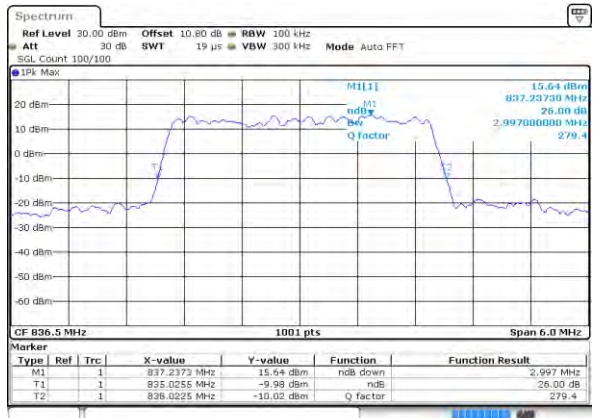
Date: 4 DEC 2019 18:01:36

Middle Channel / 3MHz / QPSK



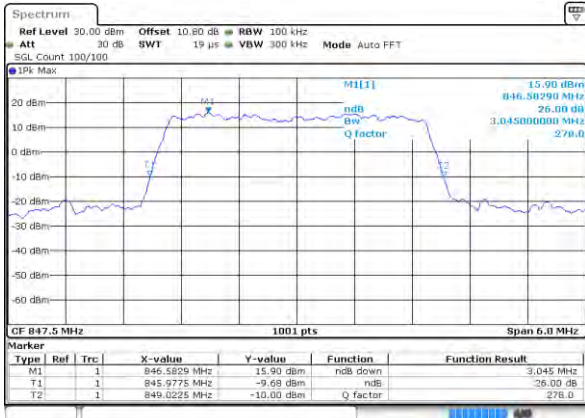
Date: 4 DEC 2019 18:10:15

Middle Channel / 3MHz / 16QAM



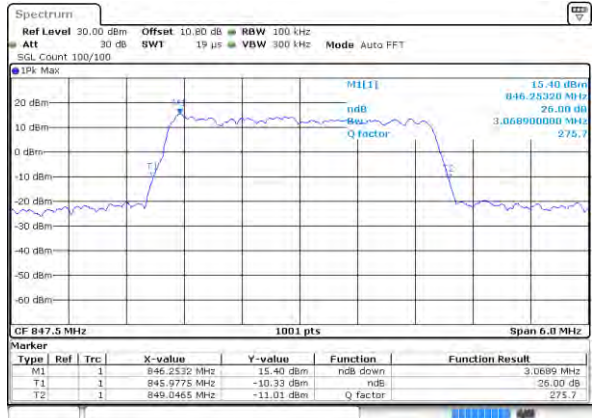
Date: 4 DEC 2019 18:10:27

Highest Channel / 3MHz / QPSK



Date: 4 DEC 2019 18:12:23

Highest Channel / 3MHz / 16QAM

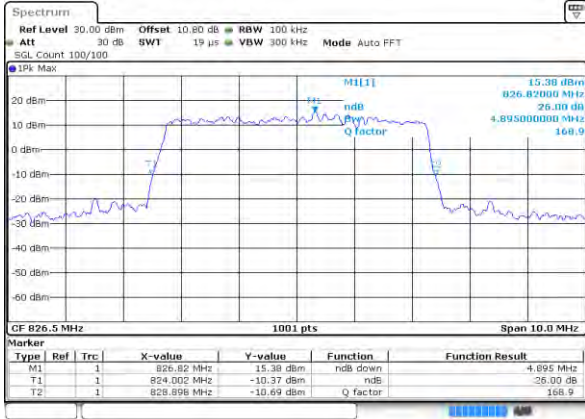


Date: 4 DEC 2019 18:12:35



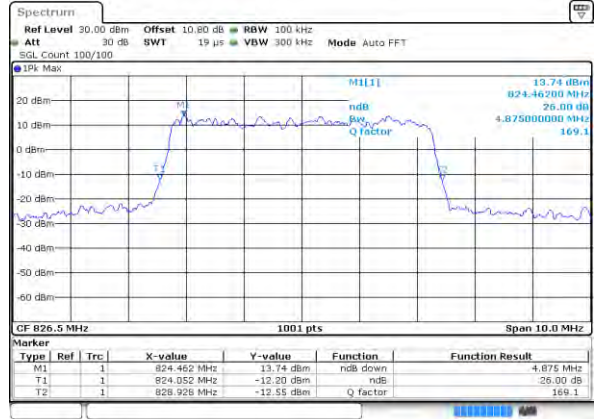
LTE Band 5

Lowest Channel / 5MHz / QPSK



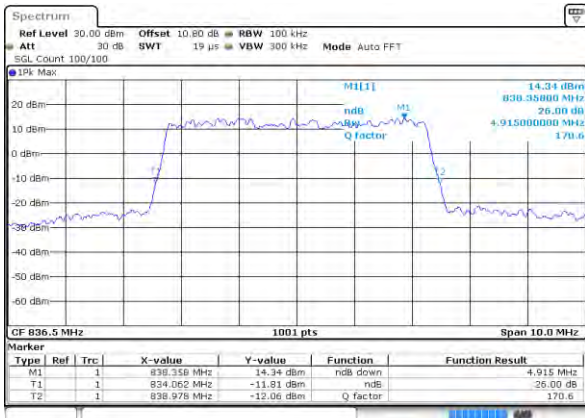
Date: 4 DEC 2019 19:31:11

Lowest Channel / 5MHz / 16QAM



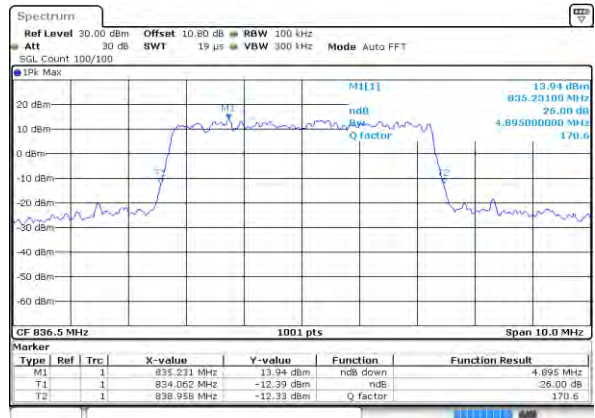
Date: 4 DEC 2019 19:31:23

Middle Channel / 5MHz / QPSK



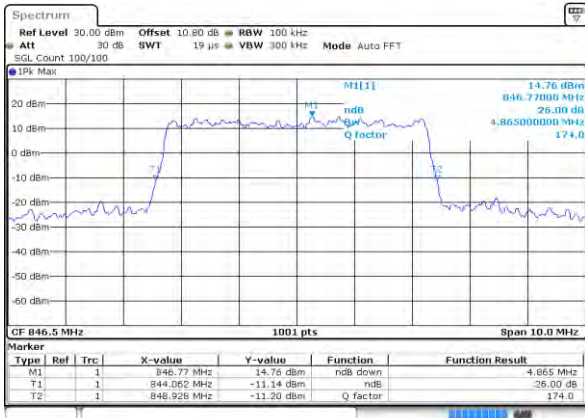
Date: 4 DEC 2019 18:40:03

Middle Channel / 5MHz / 16QAM



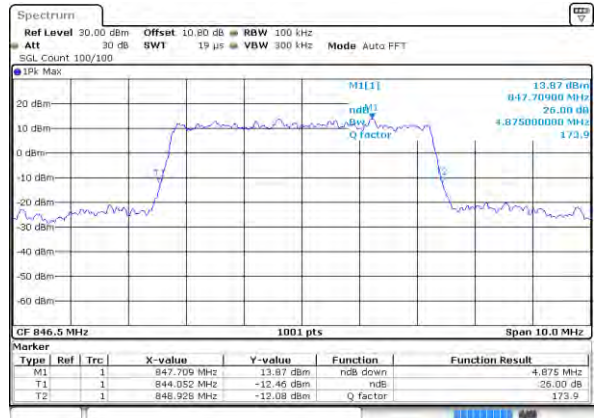
Date: 4 DEC 2019 18:40:14

Highest Channel / 5MHz / QPSK



Date: 4 DEC 2019 21:45:54

Highest Channel / 5MHz / 16QAM

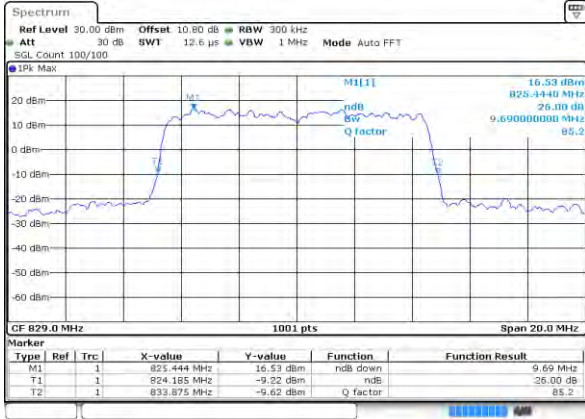


Date: 4 DEC 2019 21:46:05



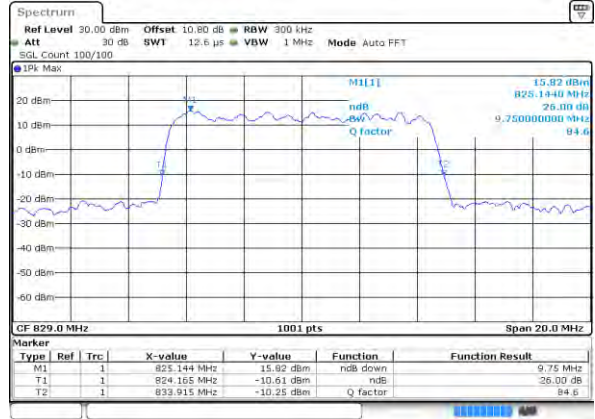
LTE Band 5

Lowest Channel / 10MHz / QPSK



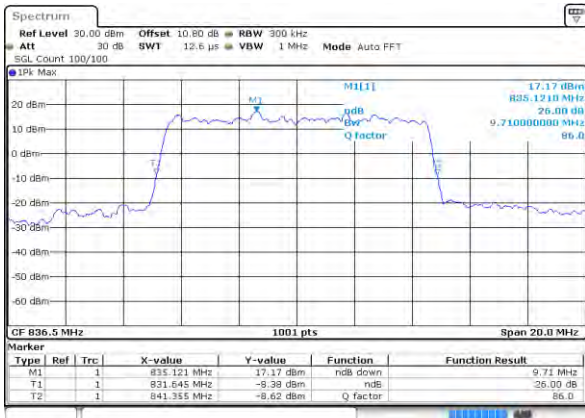
Date: 4 DEC 2019 22:17:23

Lowest Channel / 10MHz / 16QAM



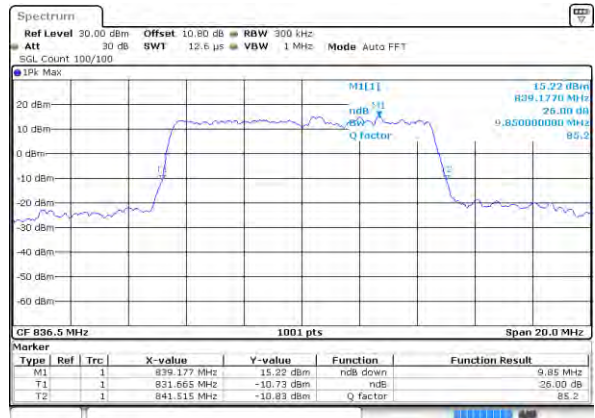
Date: 4 DEC 2019 22:17:35

Middle Channel / 10MHz / QPSK



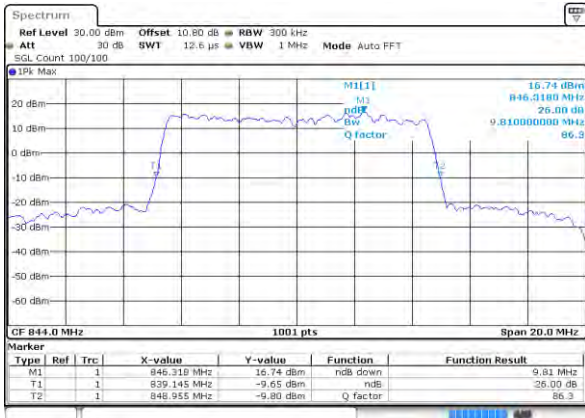
Date: 4 DEC 2019 22:28:59

Middle Channel / 10MHz / 16QAM



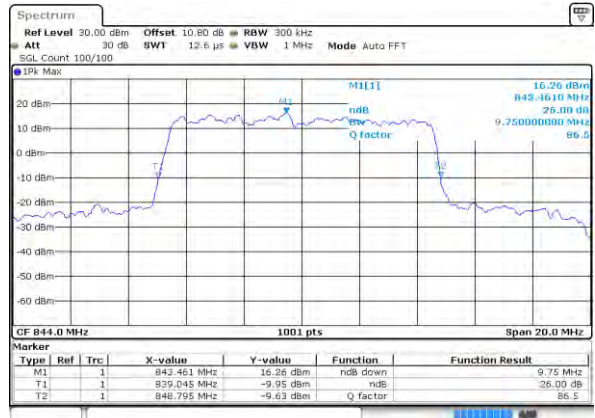
Date: 4 DEC 2019 22:29:10

Highest Channel / 10MHz / QPSK



Date: 4 DEC 2019 22:31:08

Highest Channel / 10MHz / 16QAM

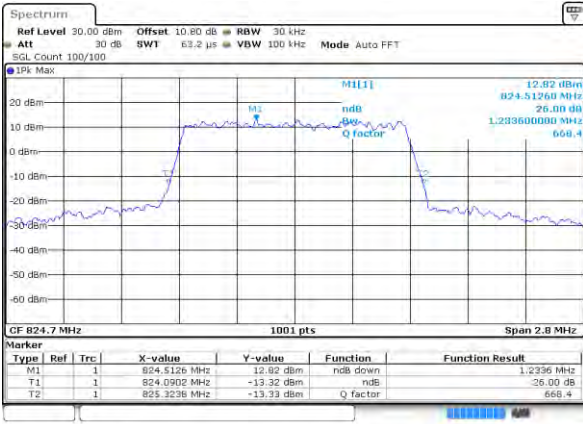


Date: 4 DEC 2019 22:31:18



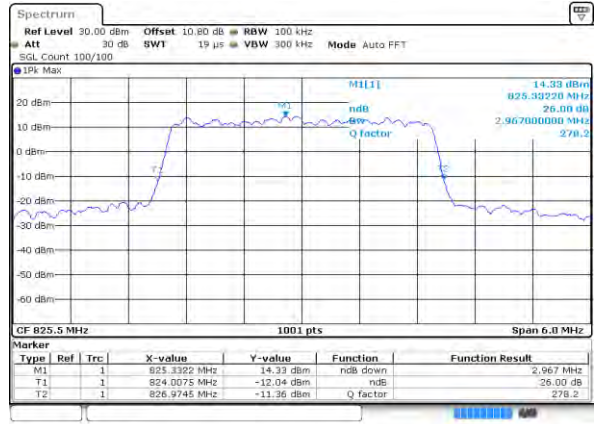
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



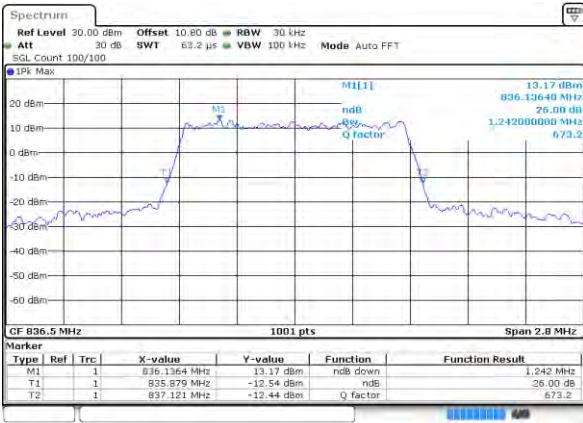
Date: 4 DEC 2019 23:07:55

Lowest Channel / 3MHz / 64QAM



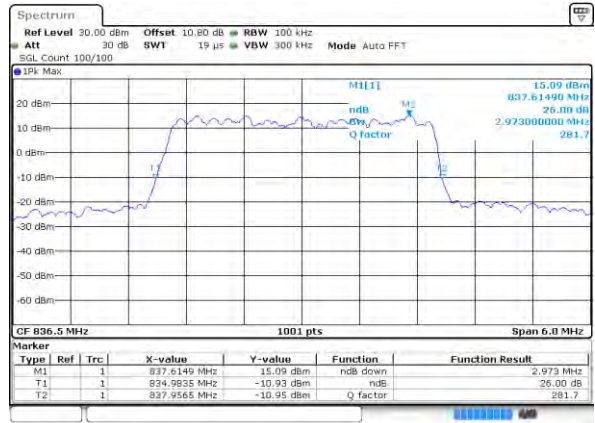
Date: 4 DEC 2019 19:21:03

Middle Channel / 1.4MHz / 64QAM



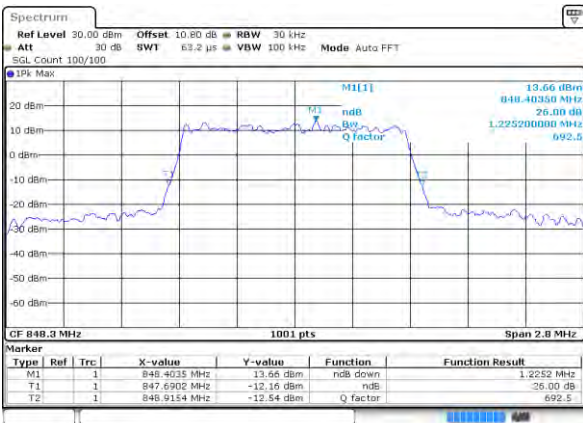
Date: 4 DEC 2019 23:10:41

Middle Channel / 3MHz / 64QAM



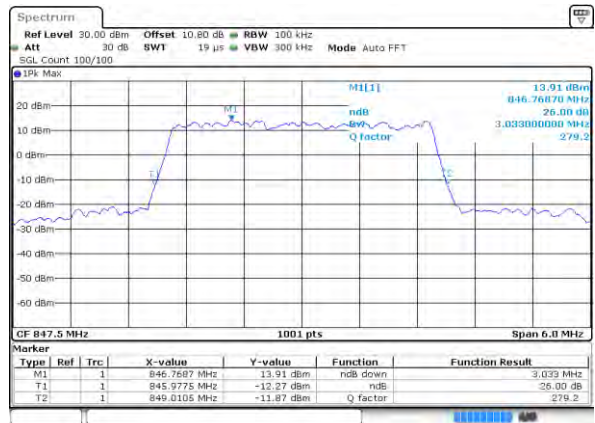
Date: 4 DEC 2019 19:25:28

Highest Channel / 1.4MHz / 64QAM



Date: 4 DEC 2019 23:11:45

Highest Channel / 3MHz / 64QAM

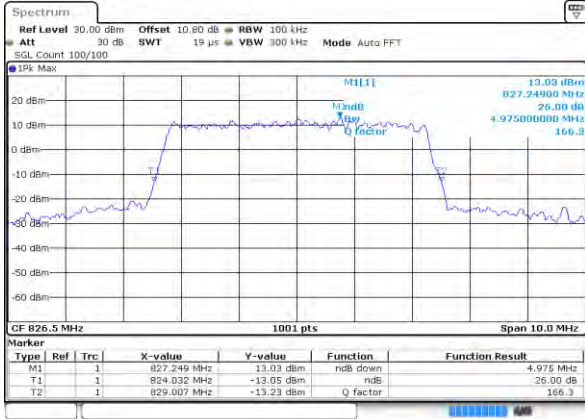


Date: 4 DEC 2019 19:26:32



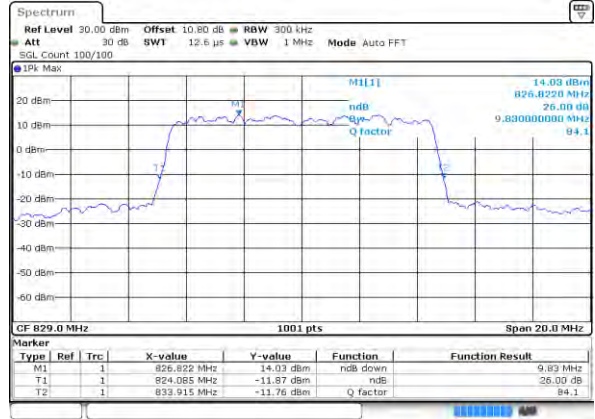
LTE Band 5

Lowest Channel / 5MHz / 64QAM



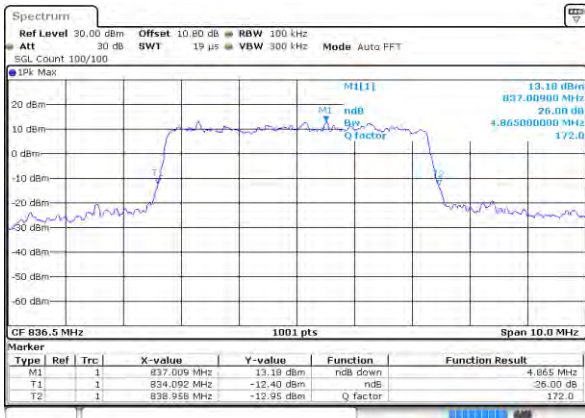
Date: 4 DEC 2019 22:07:56

Lowest Channel / 10MHz / 64QAM



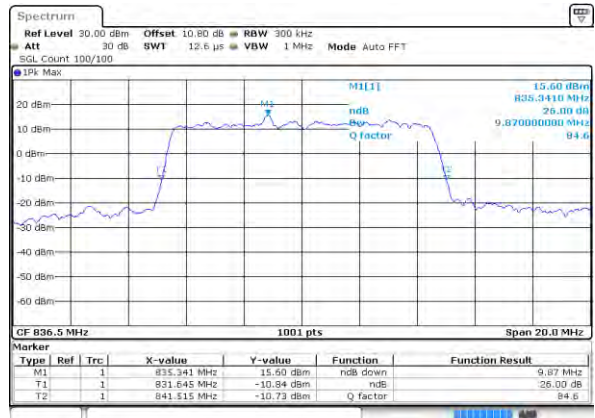
Date: 4 DEC 2019 22:40:28

Middle Channel / 5MHz / 64QAM



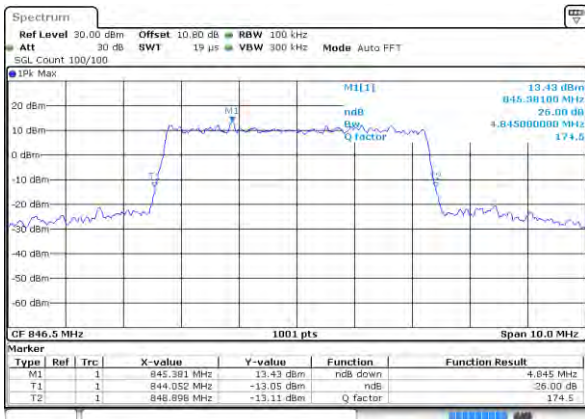
Date: 4 DEC 2019 22:12:21

Middle Channel / 10MHz / 64QAM



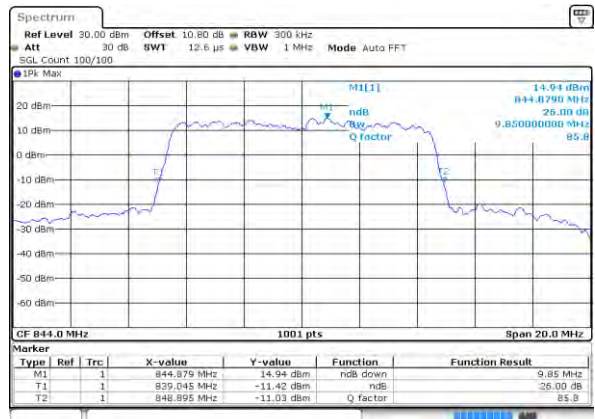
Date: 4 DEC 2019 22:44:54

Highest Channel / 5MHz / 64QAM



Date: 4 DEC 2019 22:13:25

Highest Channel / 10MHz / 64QAM



Date: 4 DEC 2019 22:45:57



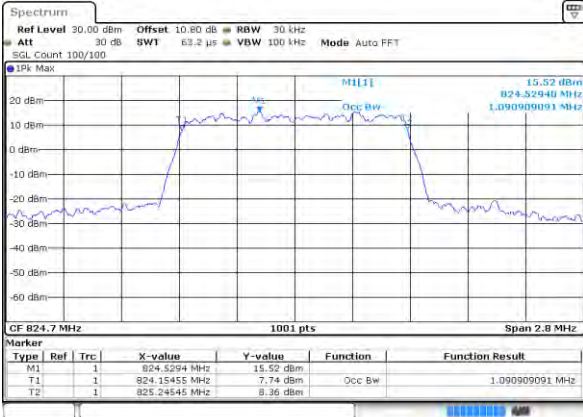
Occupied Bandwidth

Mode	LTE Band 5 : 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	4.49	4.48	8.99	9.01	-	-	-	-
Middle CH	1.09	1.10	2.72	2.72	4.51	4.48	9.07	8.99	-	-	-	-
Highest CH	1.09	1.09	2.70	2.72	4.50	4.51	8.99	9.05	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.72	-	4.50	-	9.05	-	-	-	-	-
Middle CH	1.09	-	2.72	-	4.50	-	9.01	-	-	-	-	-
Highest CH	1.09	-	2.73	-	4.48	-	9.01	-	-	-	-	-



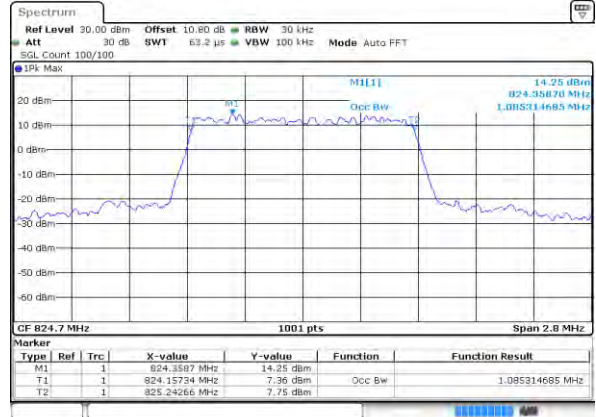
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



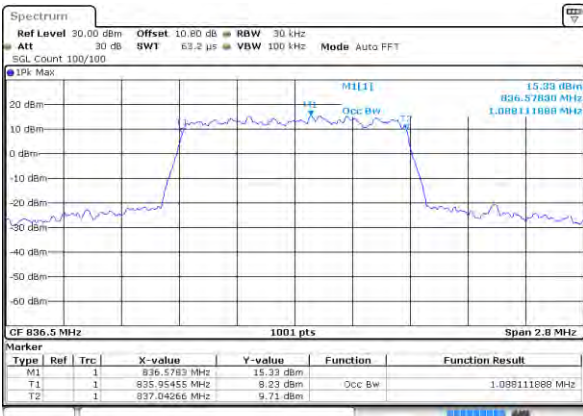
Date: 4 DEC 2019 22:51:10

Lowest Channel / 1.4MHz / 16QAM



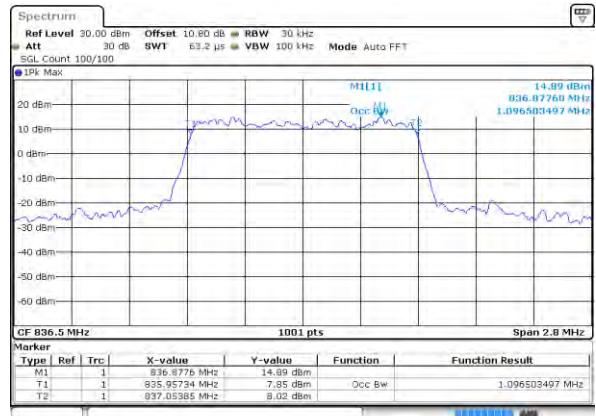
Date: 4 DEC 2019 22:51:23

Middle Channel / 1.4MHz / QPSK



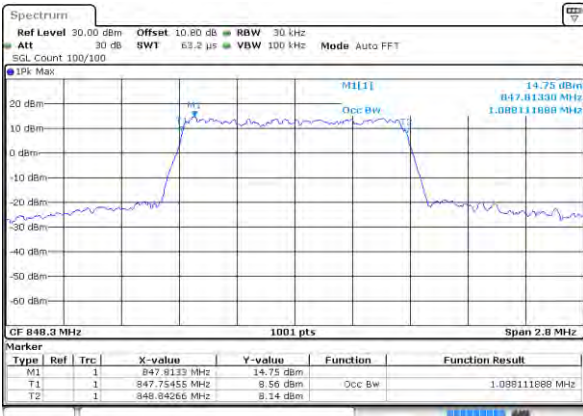
Date: 4 DEC 2019 22:56:43

Middle Channel / 1.4MHz / 16QAM



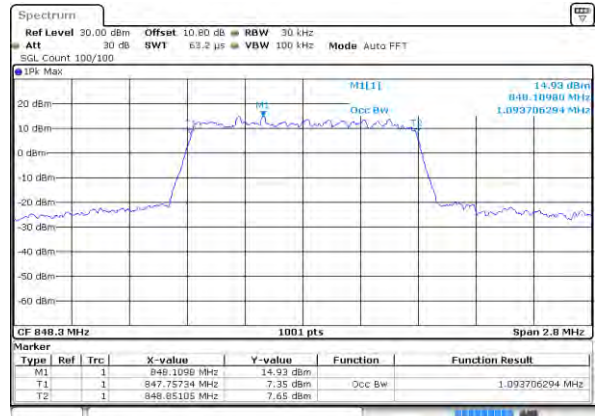
Date: 4 DEC 2019 22:56:55

Highest Channel / 1.4MHz / QPSK



Date: 4 DEC 2019 22:58:50

Highest Channel / 1.4MHz / 16QAM

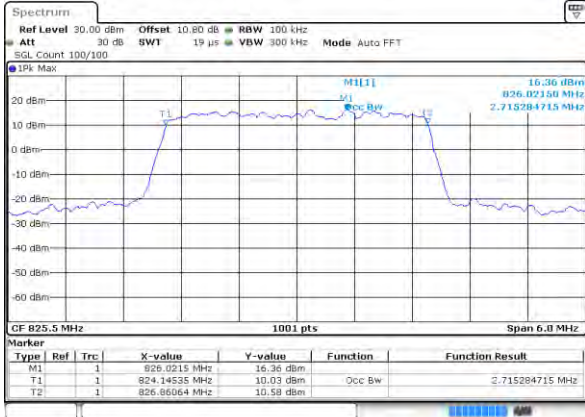


Date: 4 DEC 2019 22:59:02

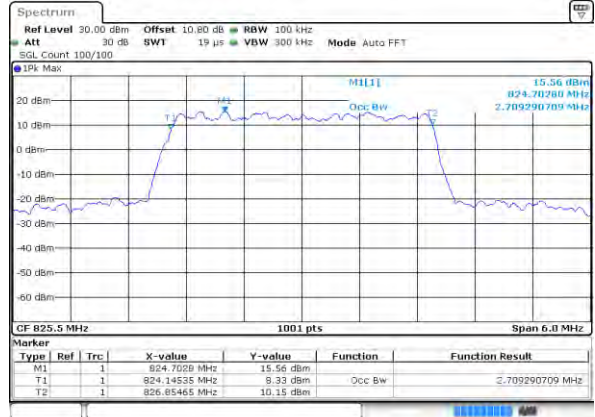


LTE Band 5

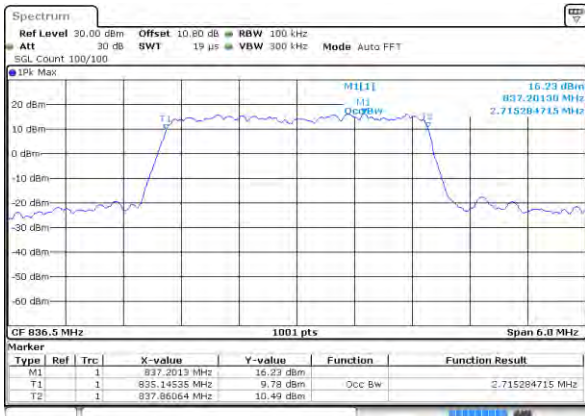
Lowest Channel / 3MHz / QPSK



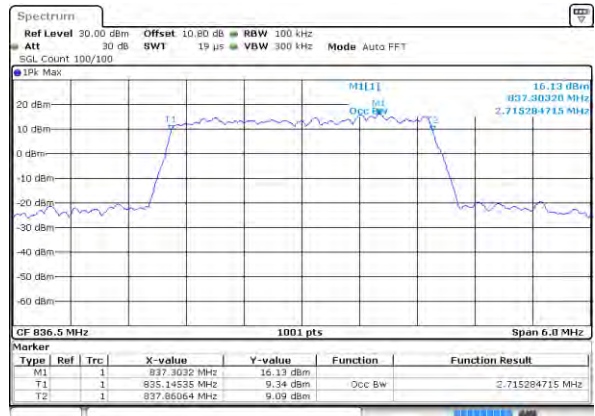
Lowest Channel / 3MHz / 16QAM



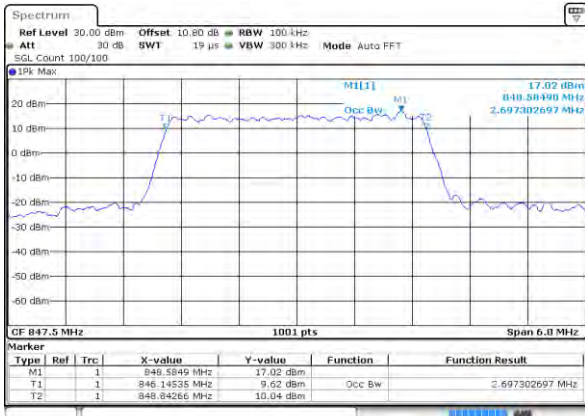
Middle Channel / 3MHz / QPSK



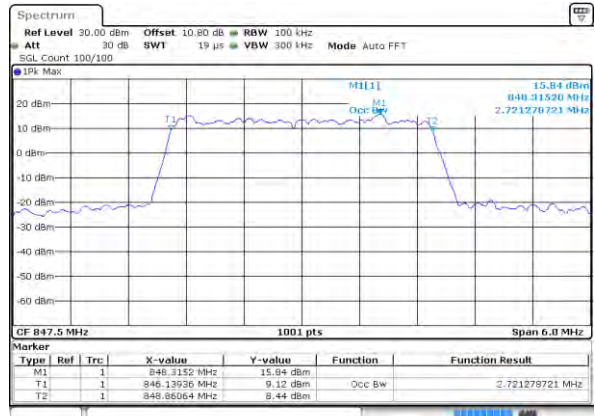
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



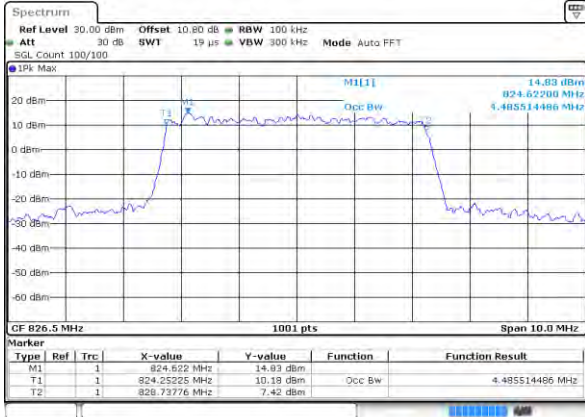
Highest Channel / 3MHz / 16QAM





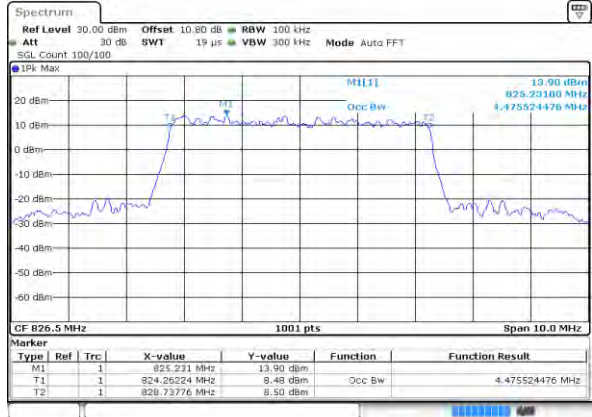
LTE Band 5

Lowest Channel / 5MHz / QPSK



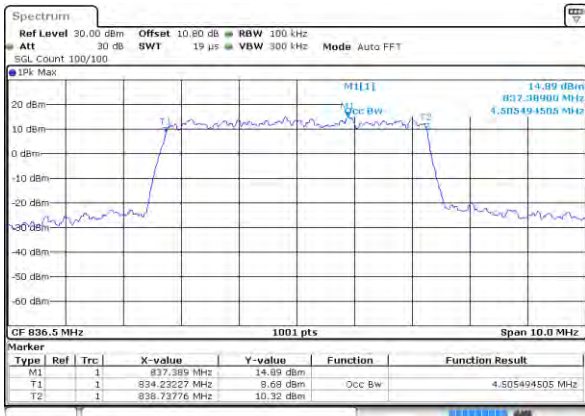
Date: 4 DEC 2019 19:30:47

Lowest Channel / 5MHz / 16QAM



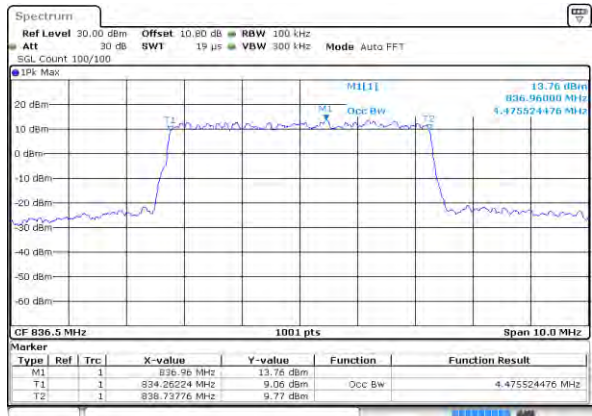
Date: 4 DEC 2019 19:30:59

Middle Channel / 5MHz / QPSK



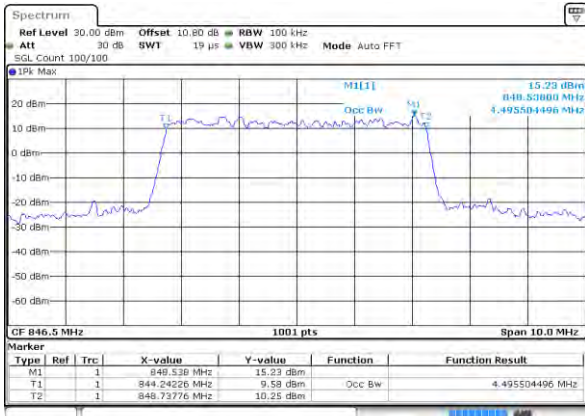
Date: 4 DEC 2019 19:39:40

Middle Channel / 5MHz / 16QAM



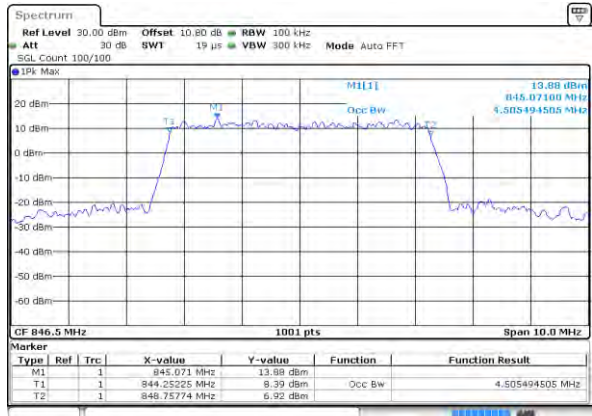
Date: 4 DEC 2019 19:39:51

Highest Channel / 5MHz / QPSK



Date: 4 DEC 2019 21:45:30

Highest Channel / 5MHz / 16QAM

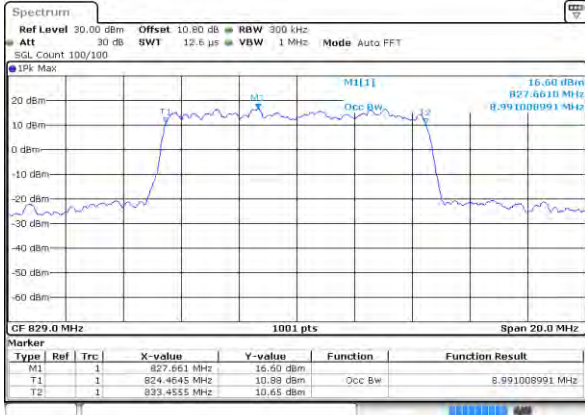


Date: 4 DEC 2019 21:45:42



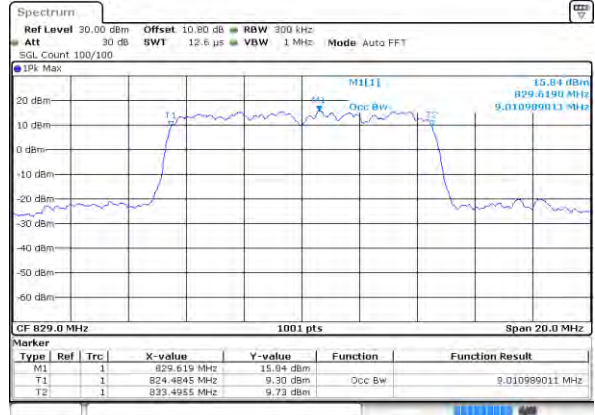
LTE Band 5

Lowest Channel / 10MHz / QPSK



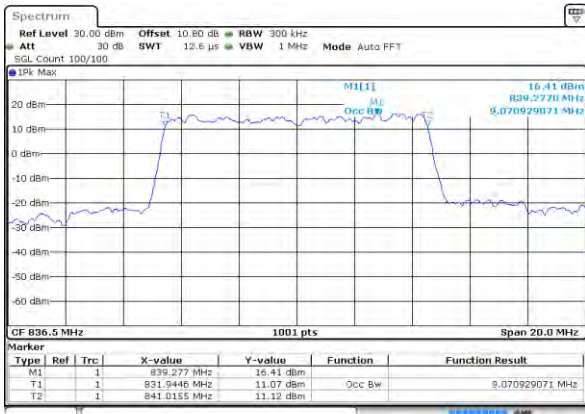
Date: 4 DEC 2019 22:16:59

Lowest Channel / 10MHz / 16QAM



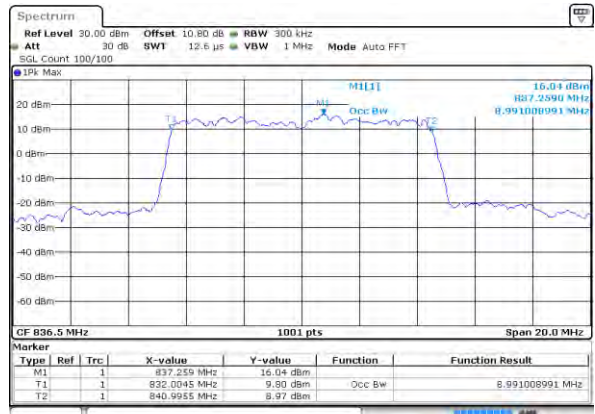
Date: 4 DEC 2019 22:17:11

Middle Channel / 10MHz / QPSK



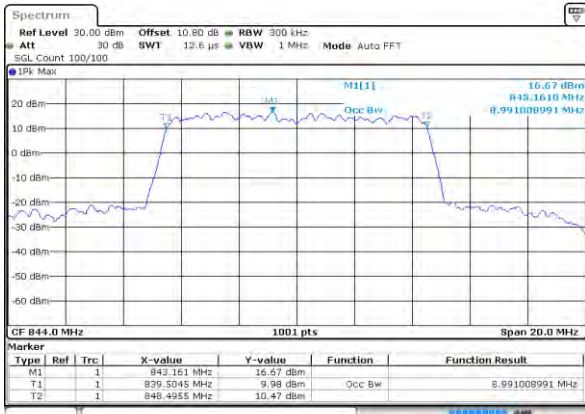
Date: 4 DEC 2019 22:28:35

Middle Channel / 10MHz / 16QAM



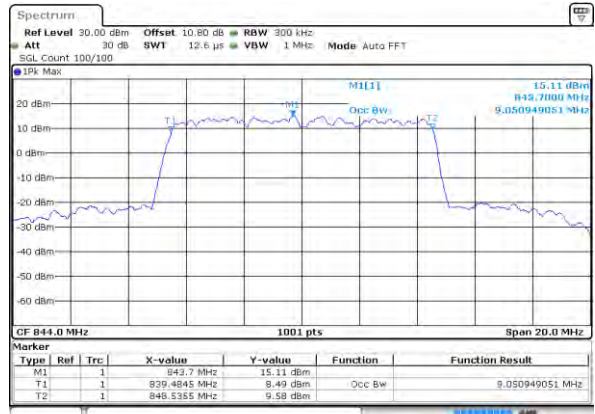
Date: 4 DEC 2019 22:28:47

Highest Channel / 10MHz / QPSK



Date: 4 DEC 2019 22:30:42

Highest Channel / 10MHz / 16QAM

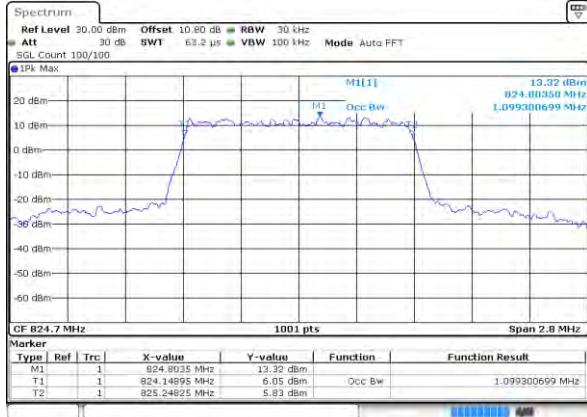


Date: 4 DEC 2019 22:30:54



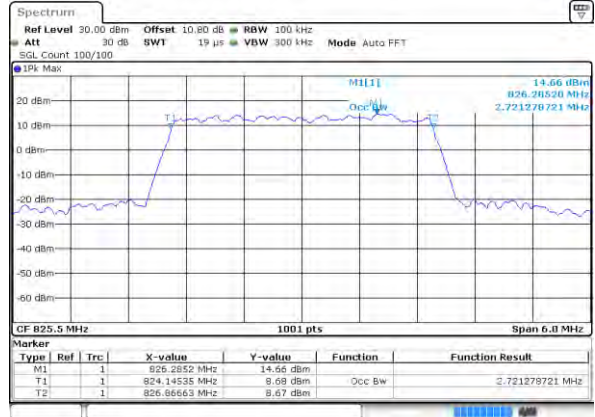
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



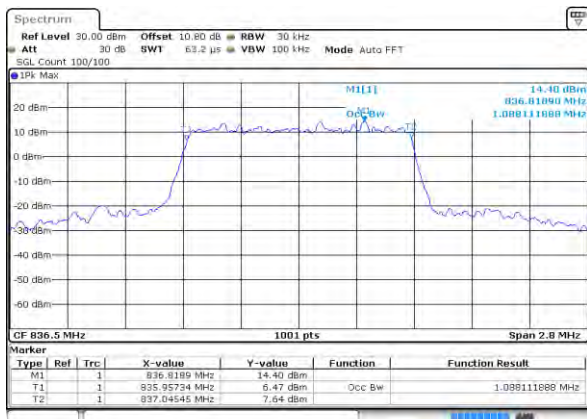
Date: 4 DEC 2019 23:07:45

Lowest Channel / 3MHz / 64QAM



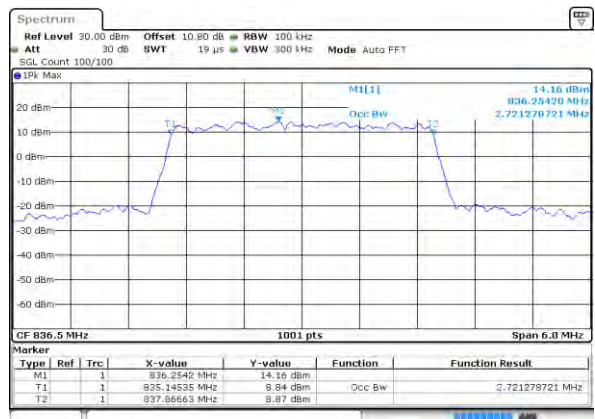
Date: 4 DEC 2019 19:20:51

Middle Channel / 1.4MHz / 64QAM



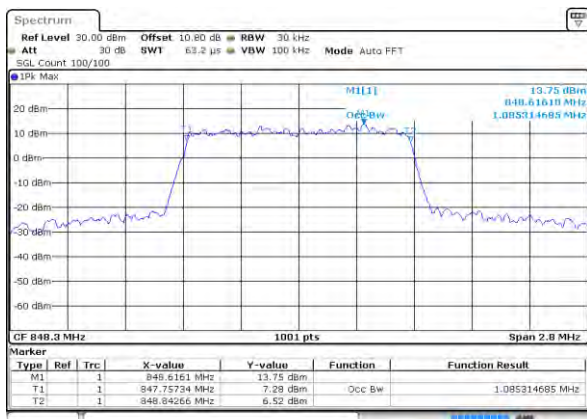
Date: 4 DEC 2019 23:10:30

Middle Channel / 3MHz / 64QAM



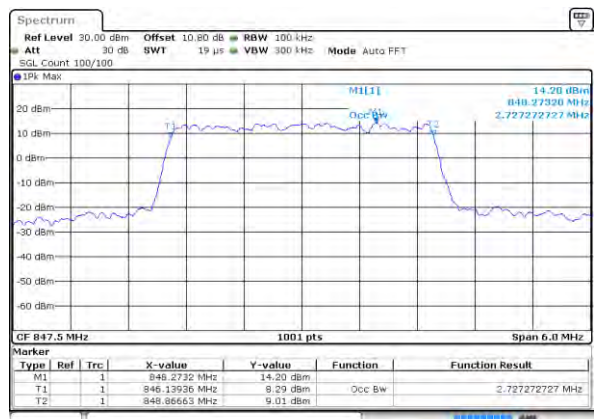
Date: 4 DEC 2019 19:25:17

Highest Channel / 1.4MHz / 64QAM



Date: 4 DEC 2019 23:11:33

Highest Channel / 3MHz / 64QAM

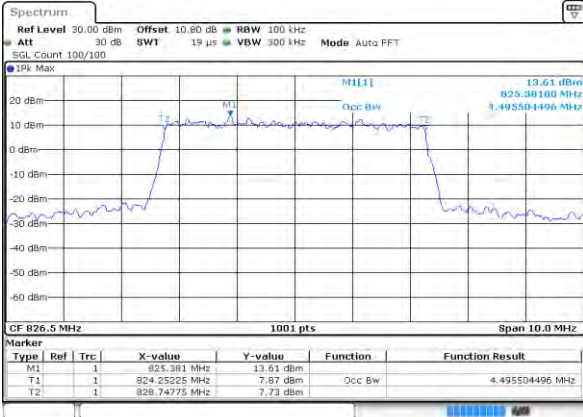


Date: 4 DEC 2019 19:26:20



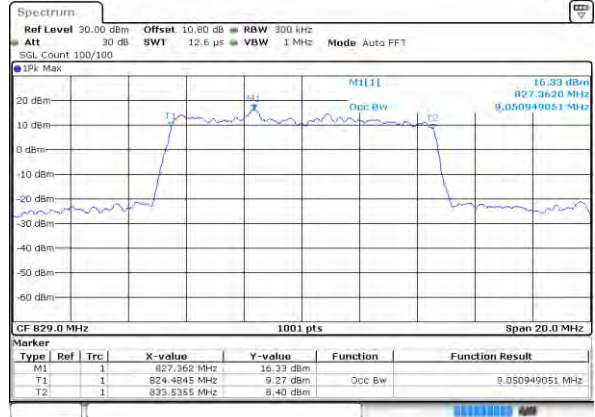
LTE Band 5

Lowest Channel / 5MHz / 64QAM



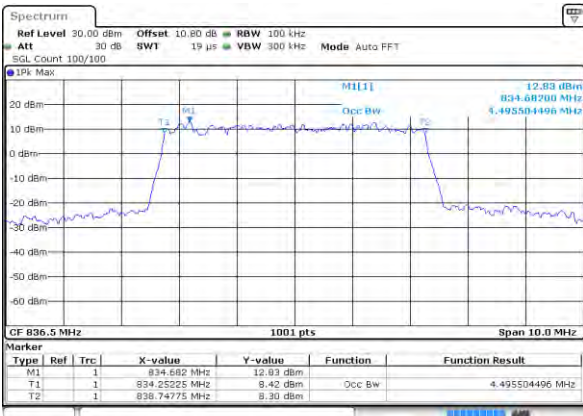
Date: 4 DEC 2019 22:07:44

Lowest Channel / 10MHz / 64QAM



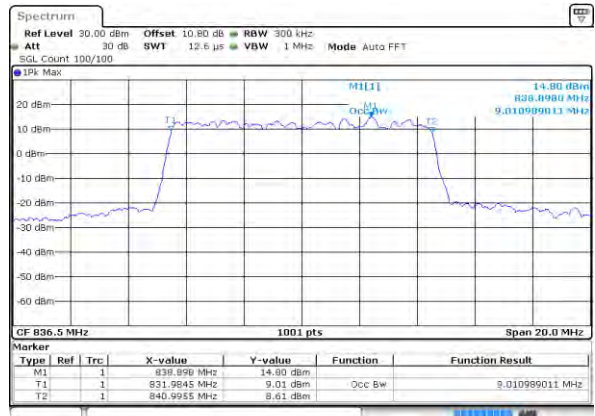
Date: 4 DEC 2019 22:40:17

Middle Channel / 5MHz / 64QAM



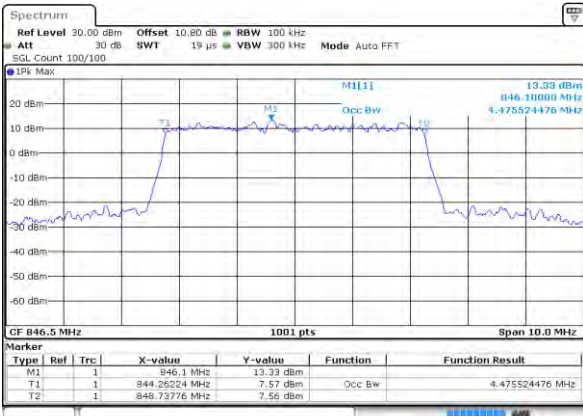
Date: 4 DEC 2019 22:12:10

Middle Channel / 10MHz / 64QAM



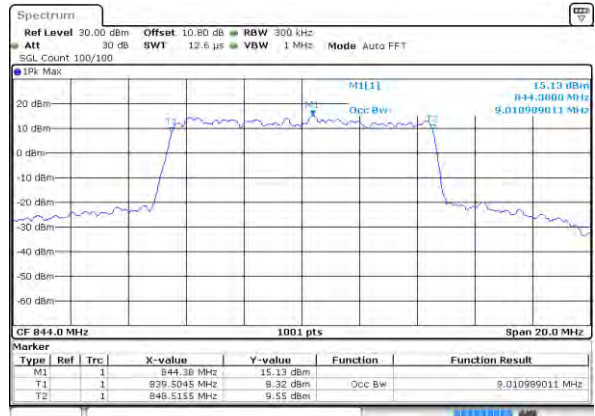
Date: 4 DEC 2019 22:44:42

Highest Channel / 5MHz / 64QAM



Date: 4 DEC 2019 22:13:15

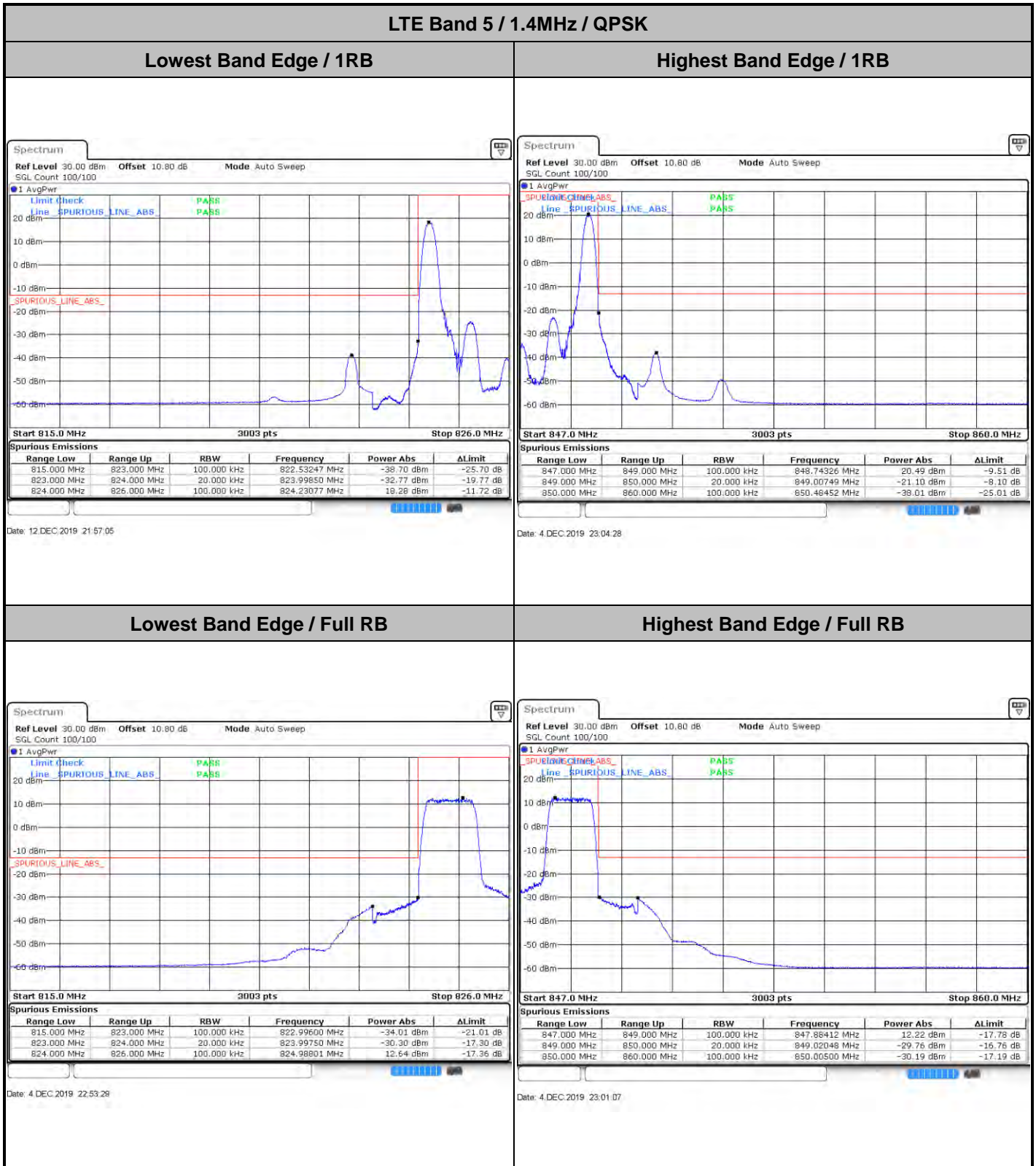
Highest Channel / 10MHz / 64QAM



Date: 4 DEC 2019 22:45:48



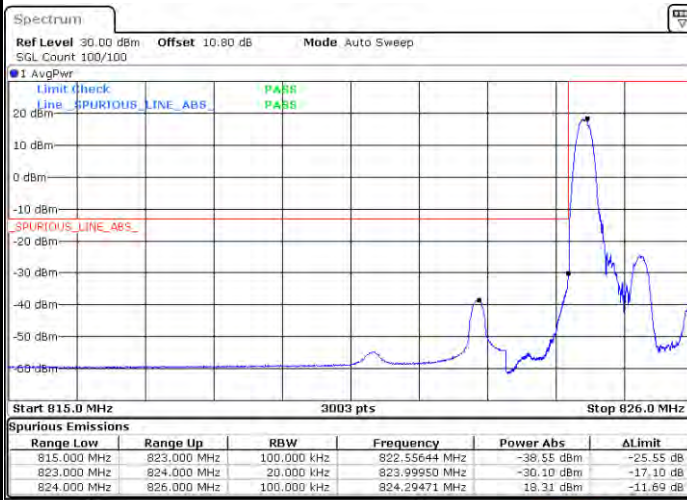
Conducted Band Edge





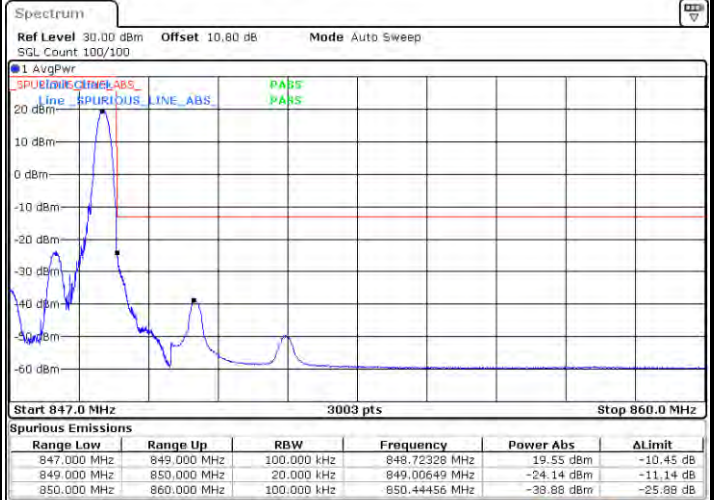
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 12 DEC 2019 21:58:47

Highest Band Edge / 1 RB



Date: 4 DEC 2019 23:06:09

Lowest Band Edge / Full RB



Date: 4 DEC 2019 22:55:10

Highest Band Edge / Full RB

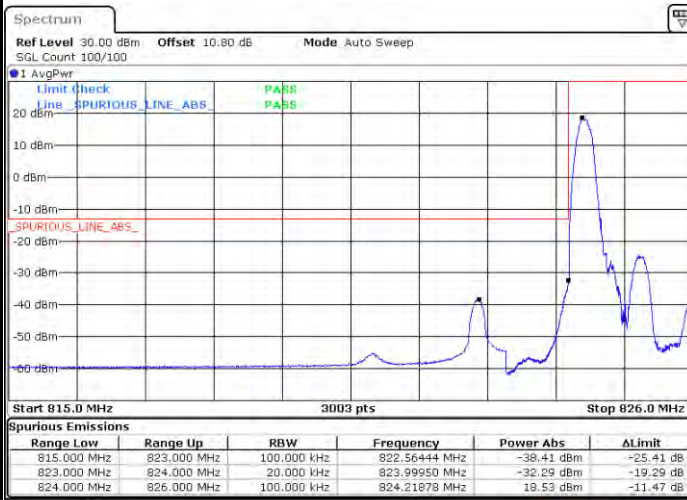


Date: 4 DEC 2019 23:02:47



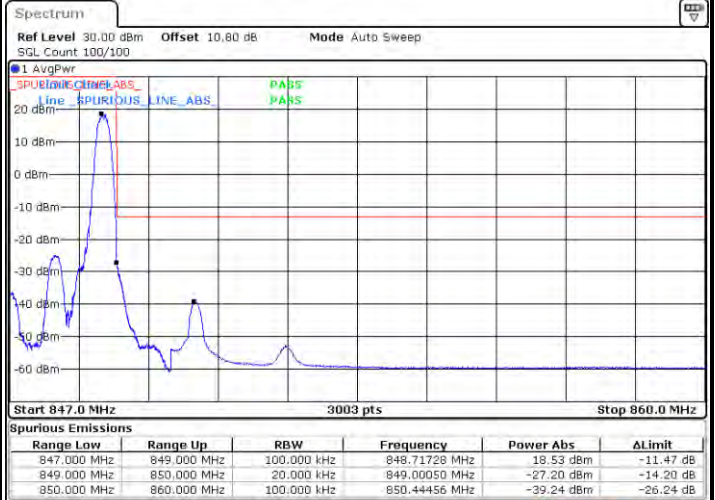
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 12 DEC 2019 22:00:15

Highest Band Edge / 1 RB



Date: 4 DEC 2019 23:15:06

Lowest Band Edge / Full RB



Date: 4 DEC 2019 23:09:37

Highest Band Edge / Full RB

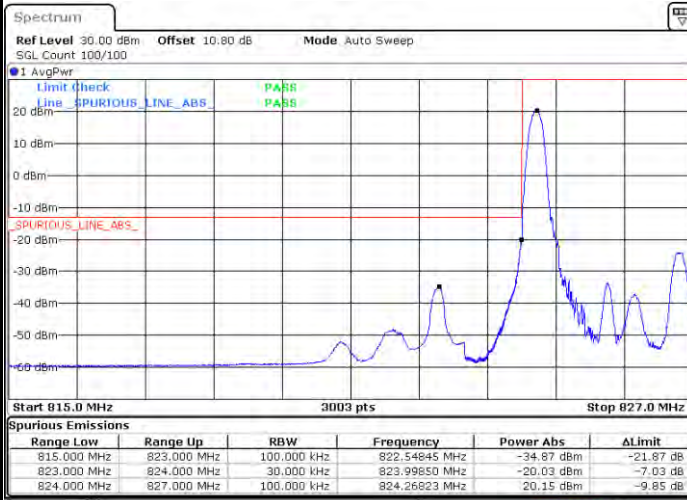


Date: 4 DEC 2019 23:13:25



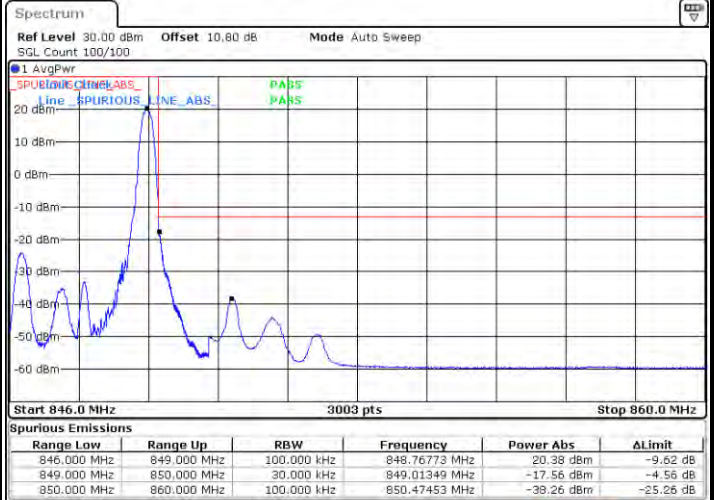
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 4 DEC.2019 19:03:16

Highest Band Edge / 1 RB



Date: 4 DEC.2019 19:14:15

Lowest Band Edge / Full RB



Date: 4 DEC.2019 19:06:38

Highest Band Edge / Full RB

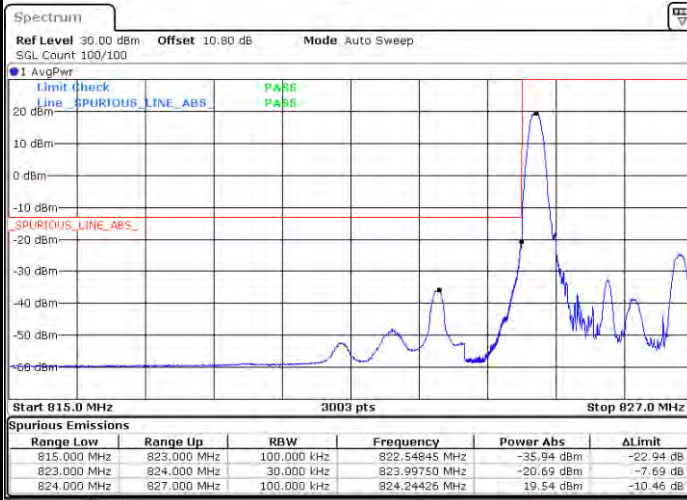


Date: 4 DEC.2019 19:17:37



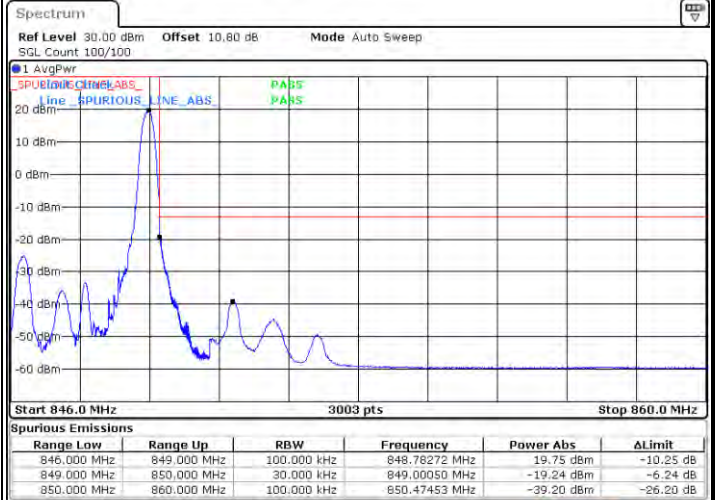
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 4 DEC.2019 19:04:57

Highest Band Edge / 1 RB



Date: 4 DEC.2019 19:15:56

Lowest Band Edge / Full RB



Date: 4 DEC.2019 19:08:18

Highest Band Edge / Full RB

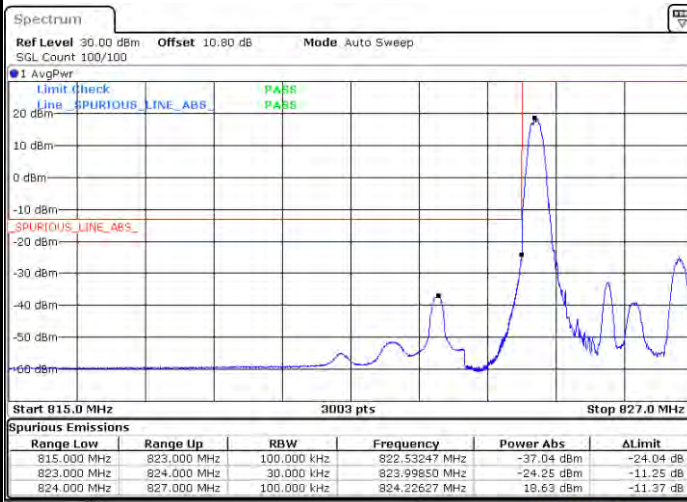


Date: 4 DEC.2019 19:19:17



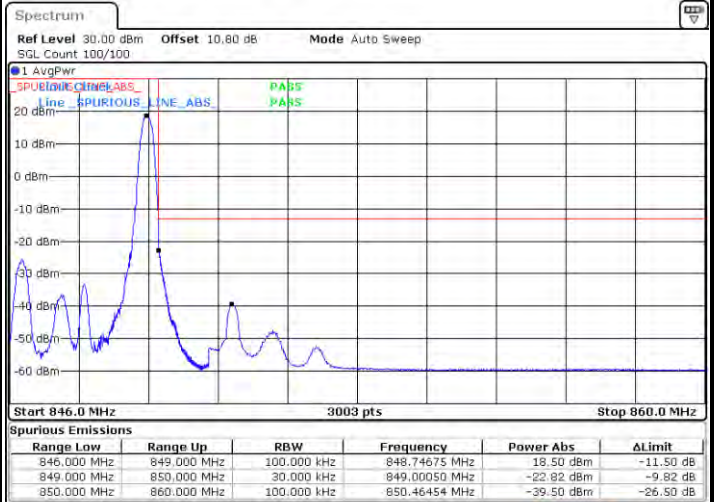
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



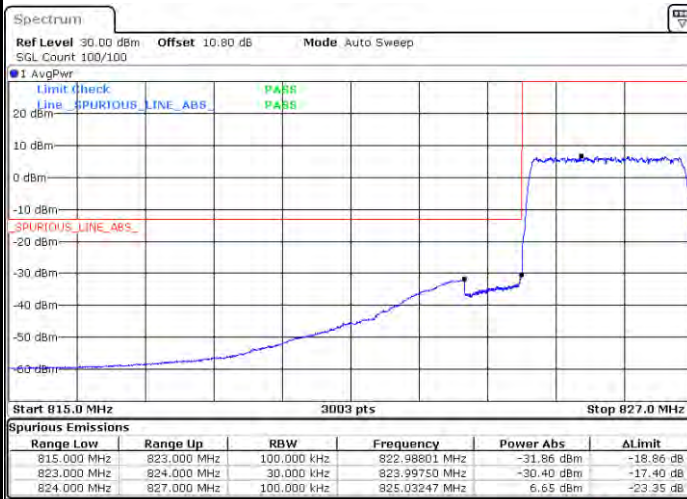
Date: 4 DEC.2019 19:22:44

Highest Band Edge / 1 RB



Date: 4 DEC.2019 19:28:13

Lowest Band Edge / Full RB



Date: 4 DEC.2019 19:24:24

Highest Band Edge / Full RB

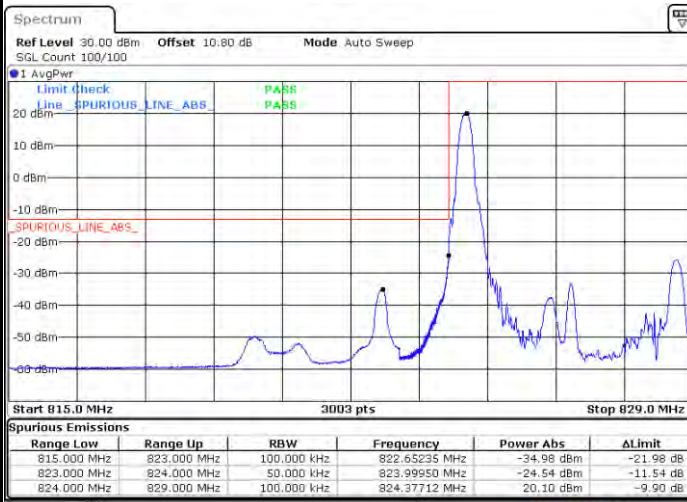


Date: 4 DEC.2019 19:29:53



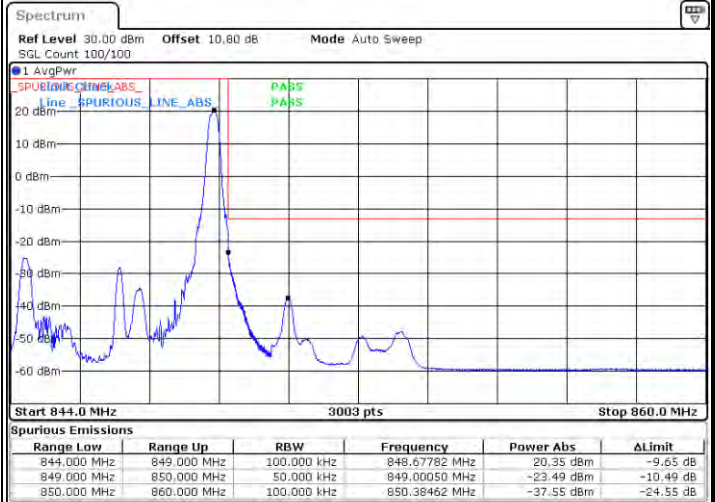
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



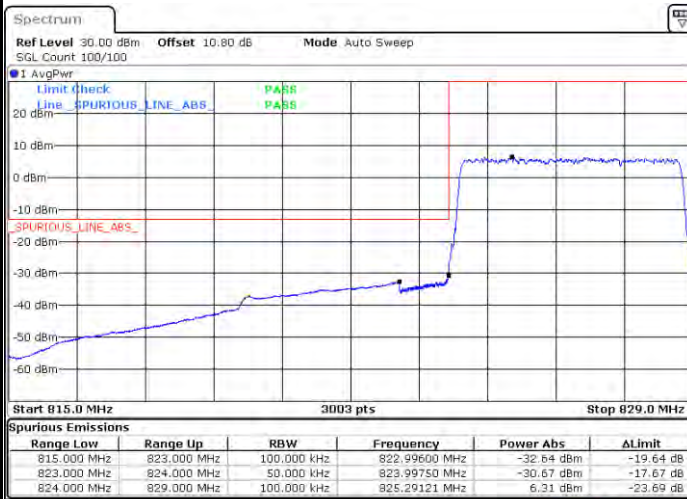
Date: 4 DEC 2019 19:33:03

Highest Band Edge / 1 RB



Date: 4 DEC 2019 21:47:47

Lowest Band Edge / Full RB



Date: 4 DEC 2019 19:36:25

Highest Band Edge / Full RB

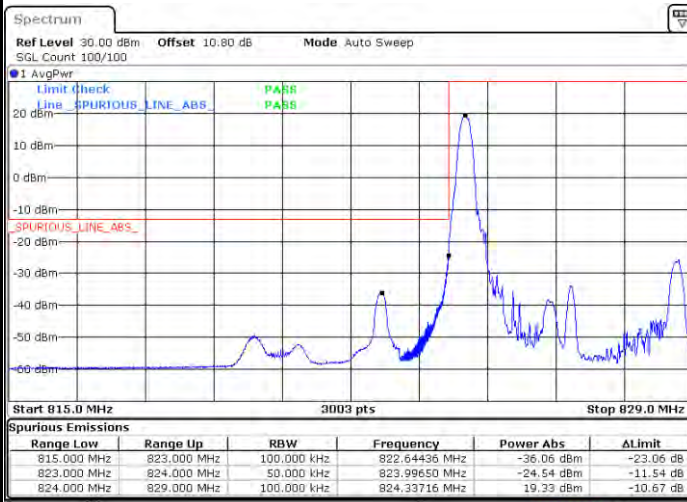


Date: 4 DEC 2019 21:51:08



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



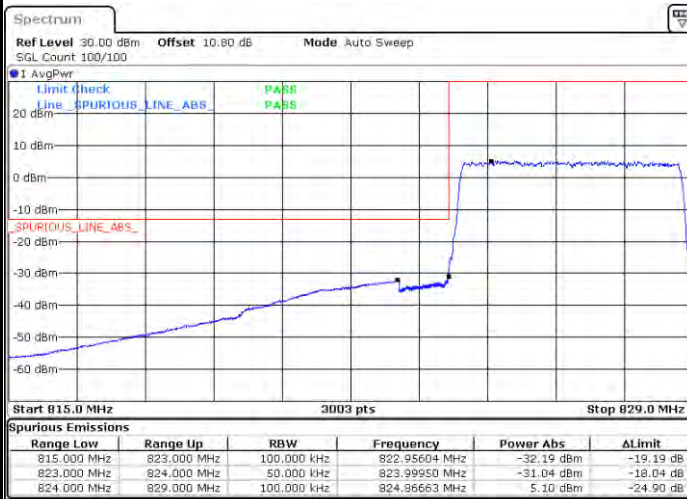
Date: 4 DEC.2019 19:34:44

Highest Band Edge / 1 RB



Date: 4 DEC.2019 21:49:28

Lowest Band Edge / Full RB



Date: 4 DEC.2019 19:38:05

Highest Band Edge / Full RB

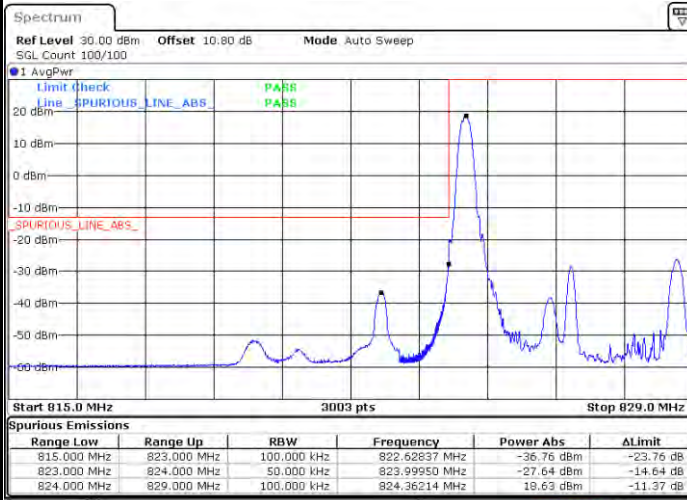


Date: 4 DEC.2019 21:52:49



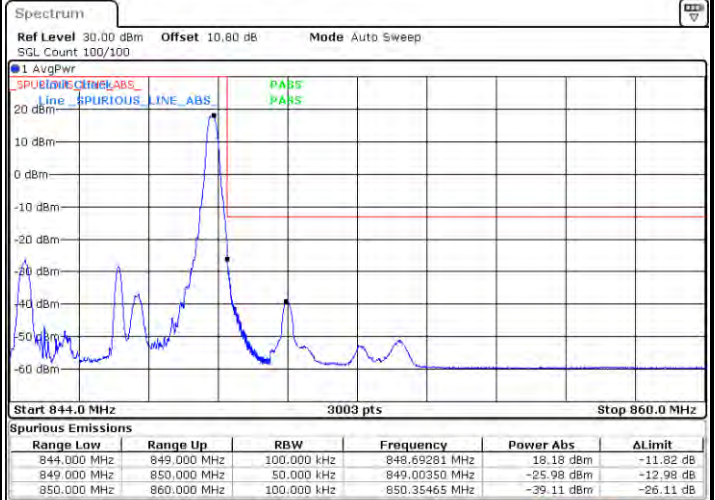
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



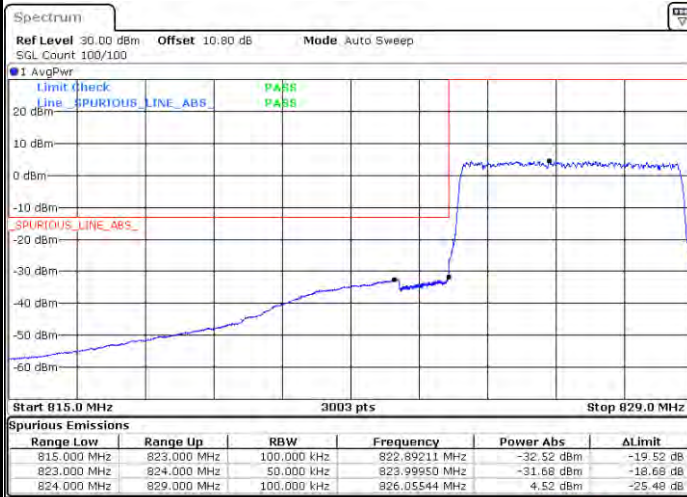
Date: 4 DEC.2019 22:09:36

Highest Band Edge / 1 RB



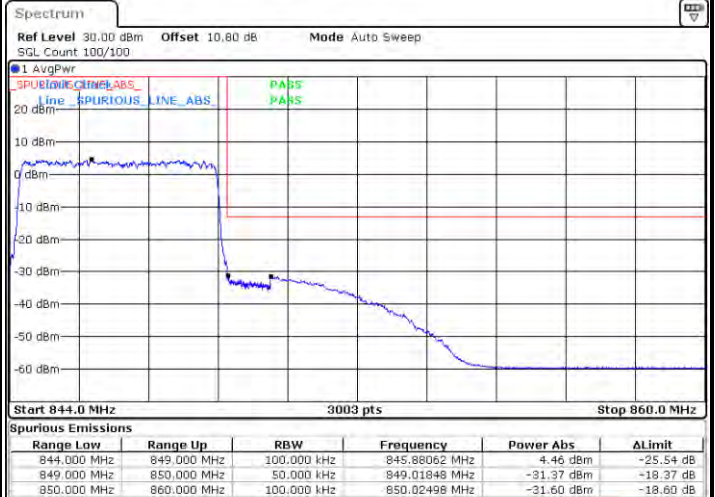
Date: 4 DEC.2019 22:15:05

Lowest Band Edge / Full RB



Date: 4 DEC.2019 22:11:17

Highest Band Edge / Full RB

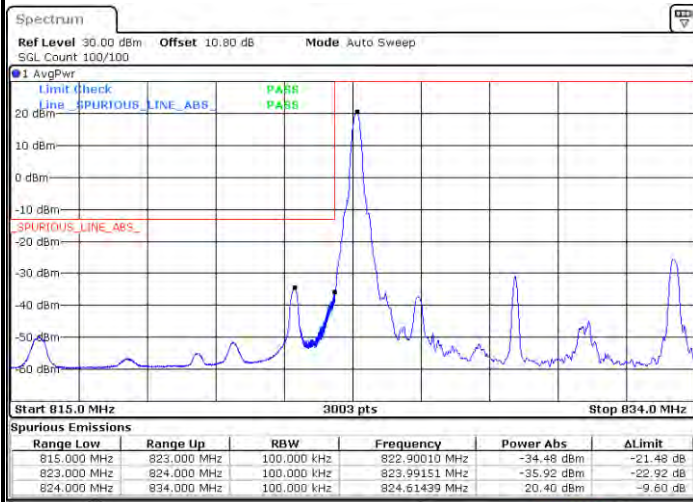


Date: 4 DEC.2019 22:16:46



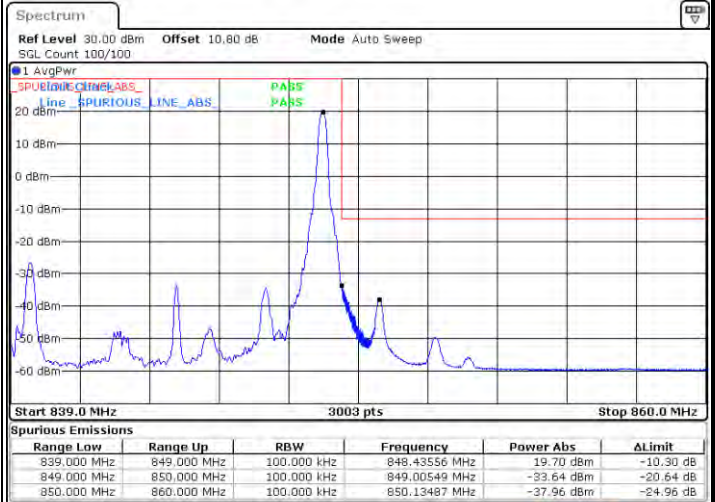
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



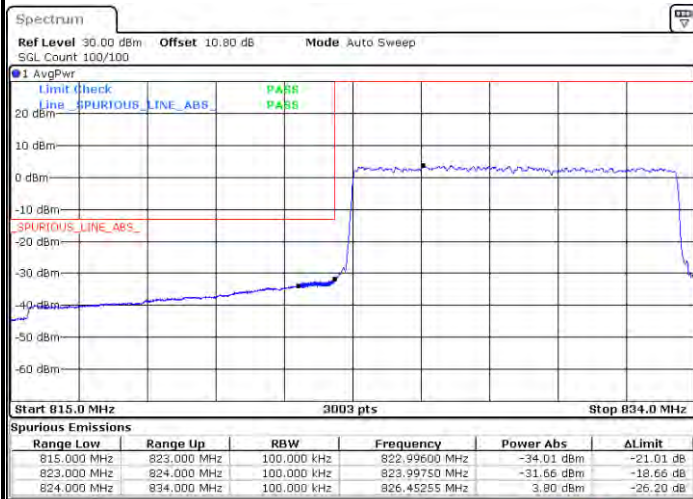
Date: 4 DEC.2019 22:19:15

Highest Band Edge / 1 RB



Date: 4 DEC.2019 22:32:59

Lowest Band Edge / Full RB



Date: 4 DEC.2019 22:25:21

Highest Band Edge / Full RB

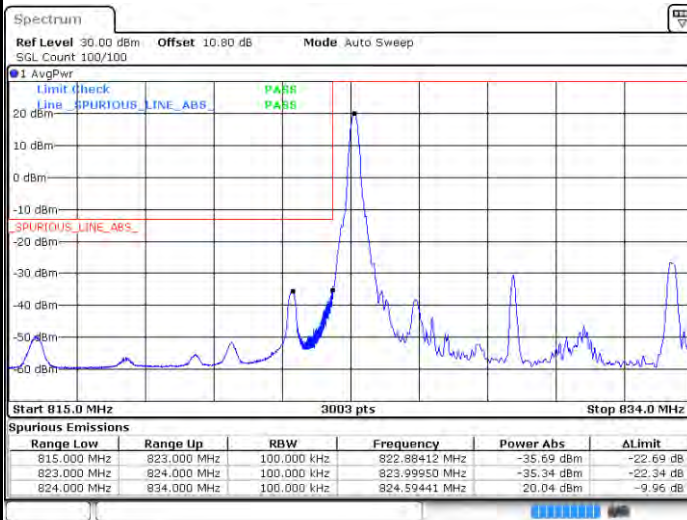


Date: 4 DEC.2019 22:36:20



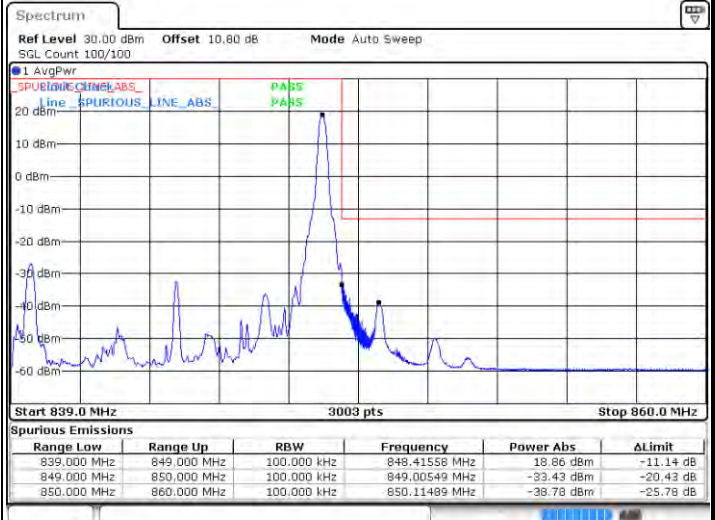
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



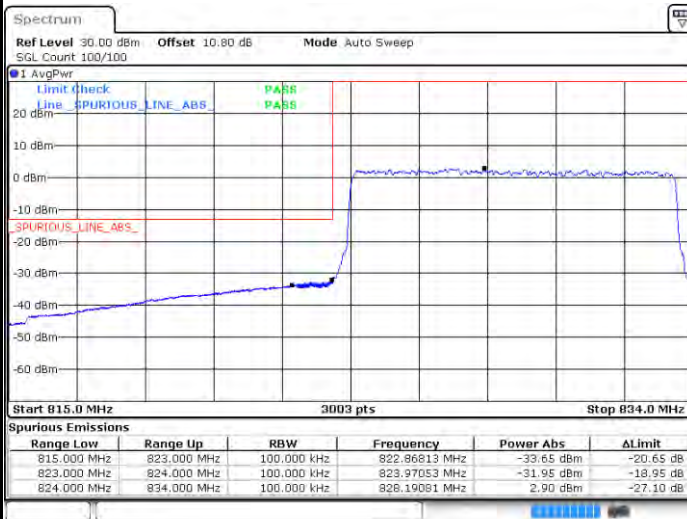
Date: 4 DEC 2019 22:20:56

Highest Band Edge / 1 RB



Date: 4 DEC 2019 22:34:39

Lowest Band Edge / Full RB



Date: 4 DEC 2019 22:27:02

Highest Band Edge / Full RB

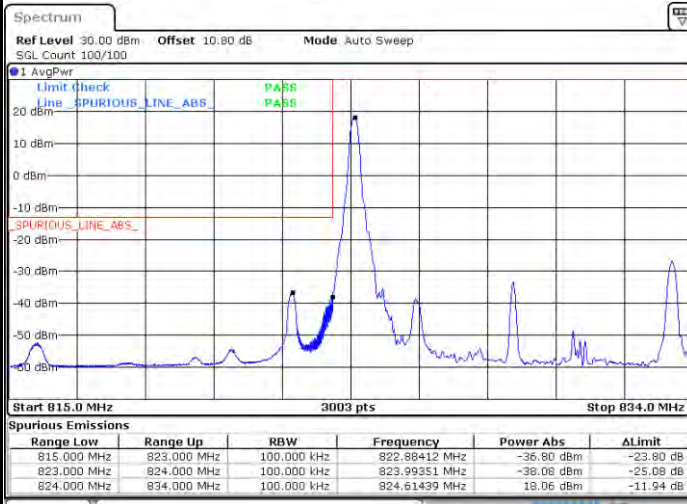


Date: 4 DEC 2019 22:38:01



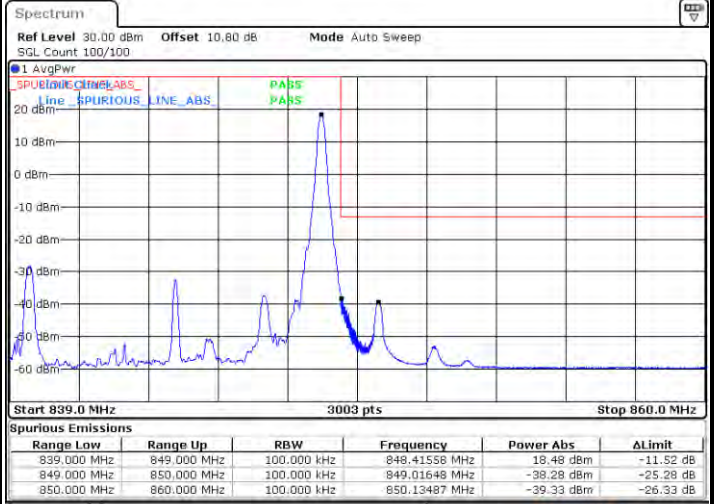
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



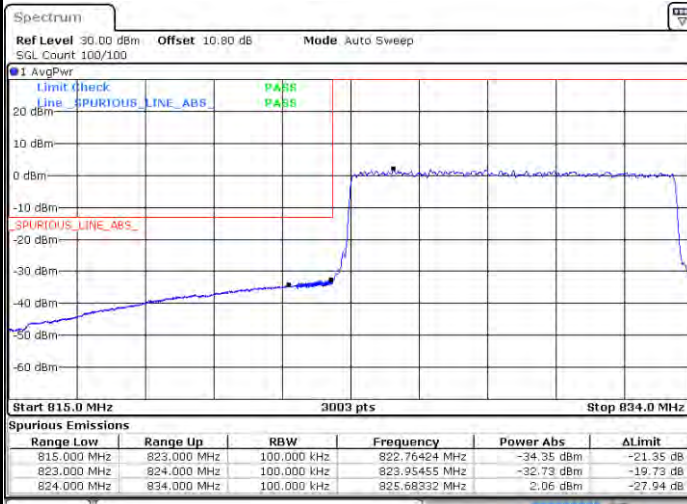
Date: 4 DEC 2019 22:42:09

Highest Band Edge / 1 RB



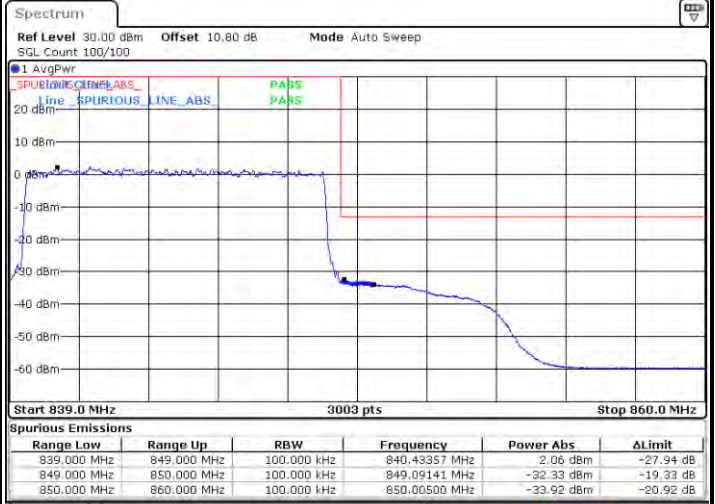
Date: 4 DEC 2019 22:47:38

Lowest Band Edge / Full RB



Date: 4 DEC 2019 22:43:49

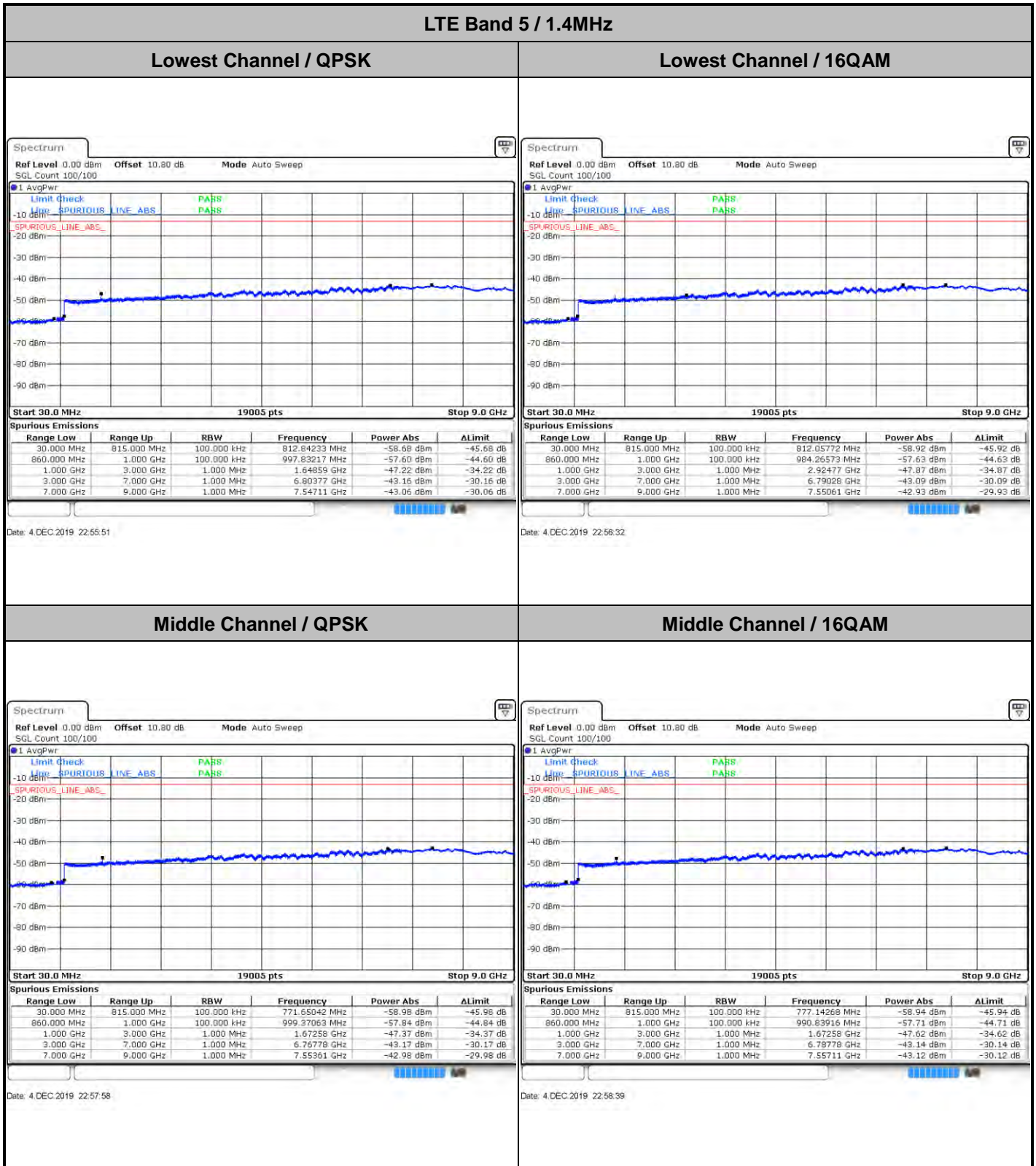
Highest Band Edge / Full RB



Date: 4 DEC 2019 22:49:18



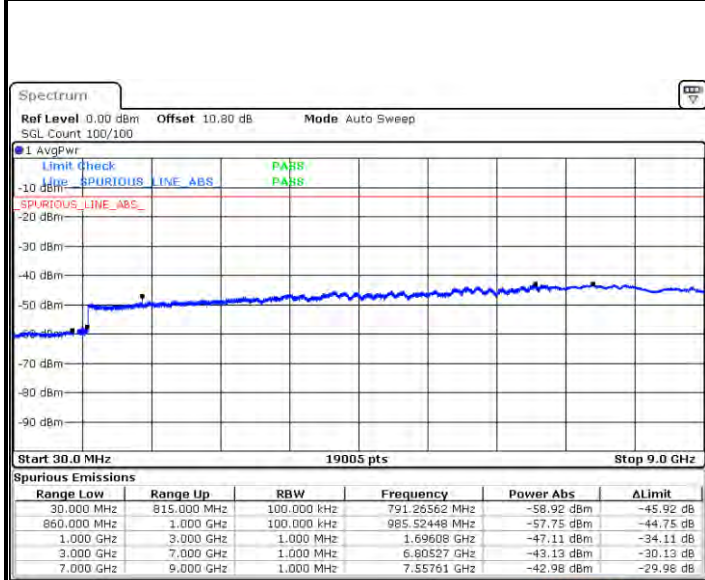
Conducted Spurious Emission





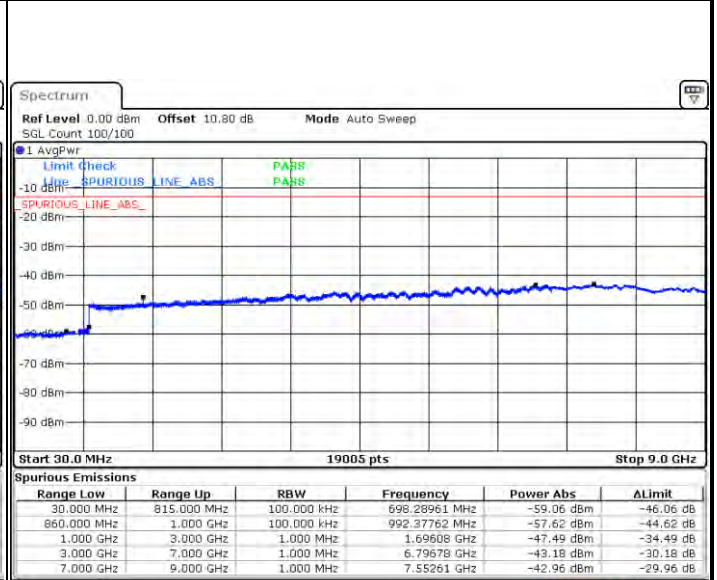
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 4 DEC 2019 23:06:51

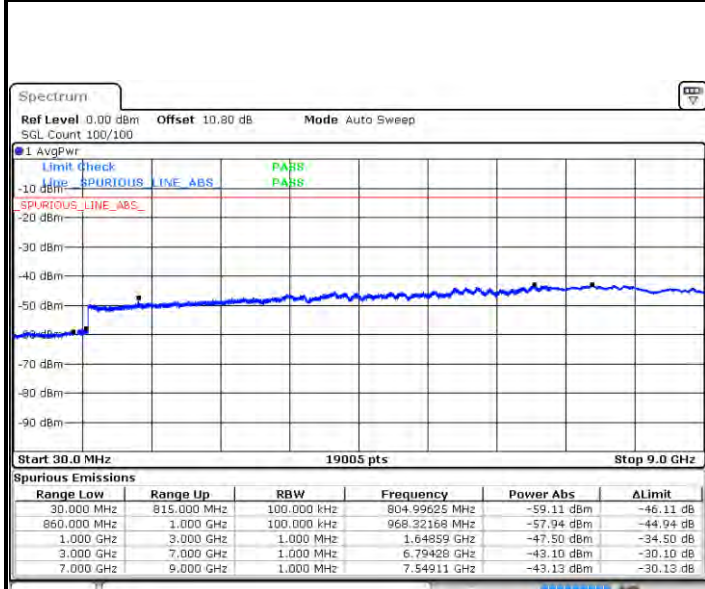
Highest Channel / 16QAM



Date: 4 DEC 2019 23:07:31

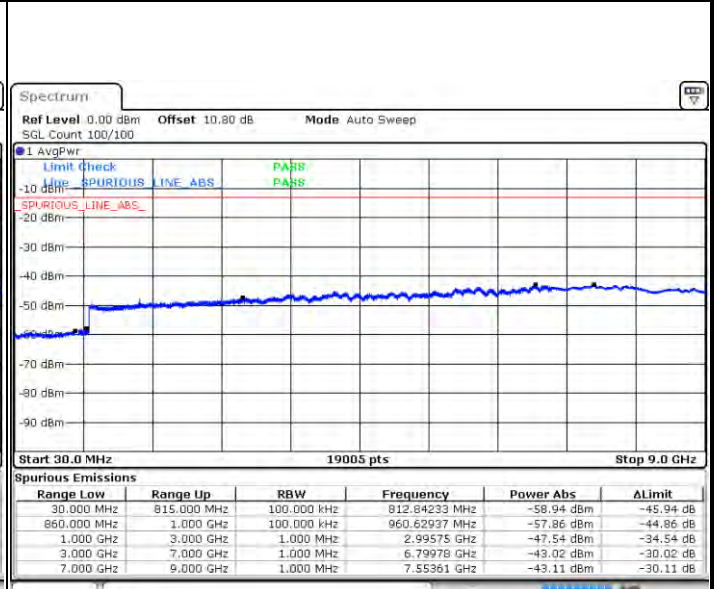
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 4 DEC 2019 19:08:00

Lowest Channel / 16QAM

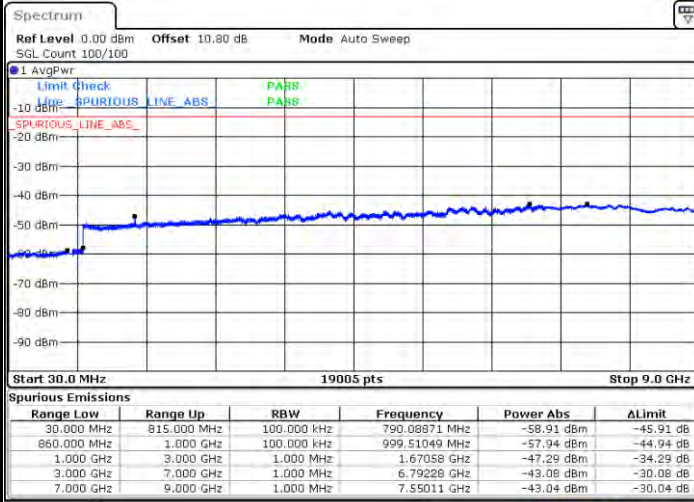


Date: 4 DEC 2019 19:09:41



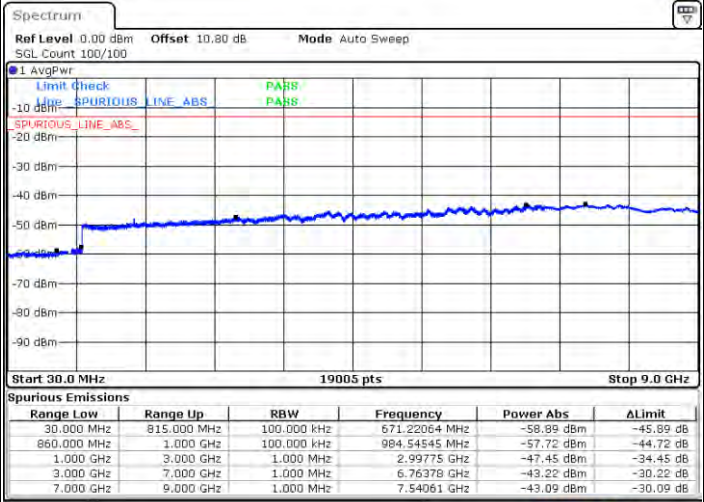
LTE Band 5 / 3MHz

Middle Channel / QPSK



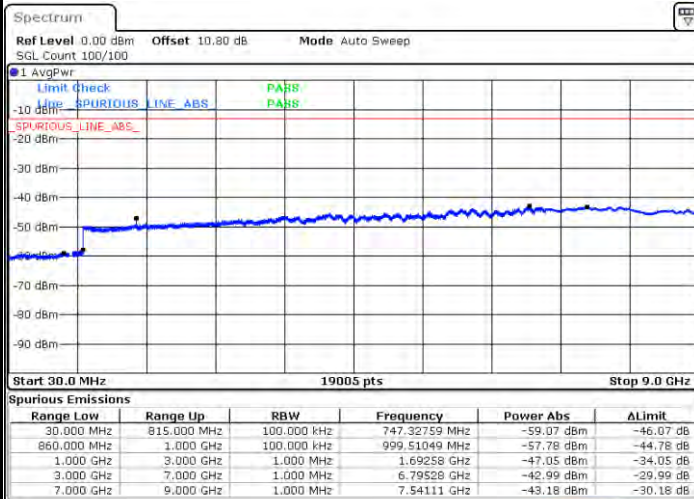
Date: 4 DEC.2019 19:11:07

Middle Channel / 16QAM



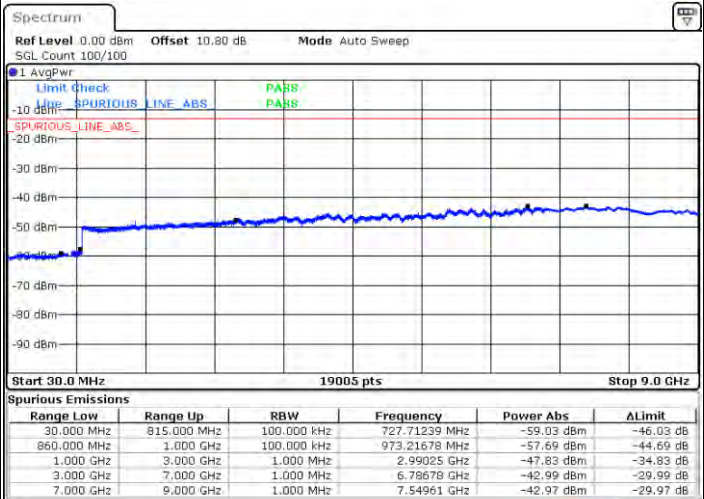
Date: 4 DEC.2019 19:11:47

Highest Channel / QPSK



Date: 4 DEC.2019 19:19:59

Highest Channel / 16QAM



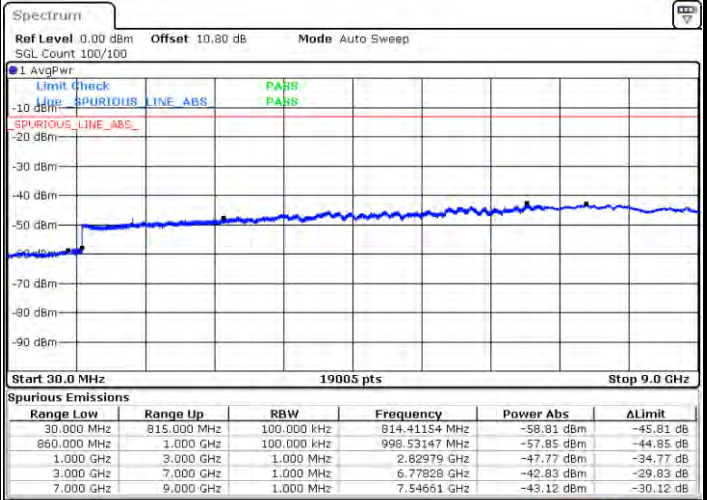
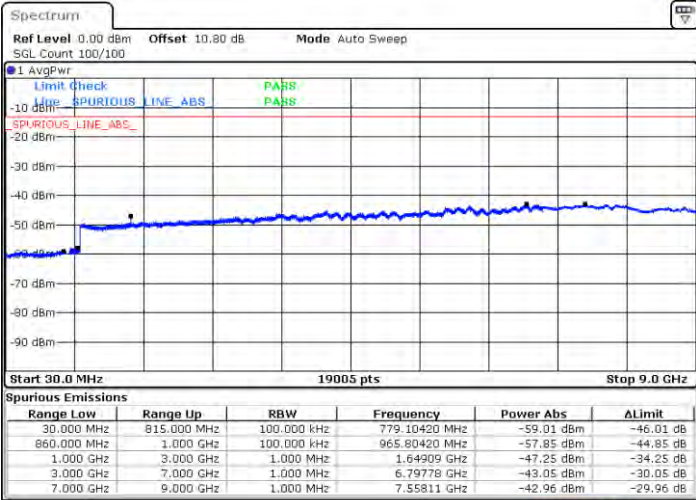
Date: 4 DEC.2019 19:20:40



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

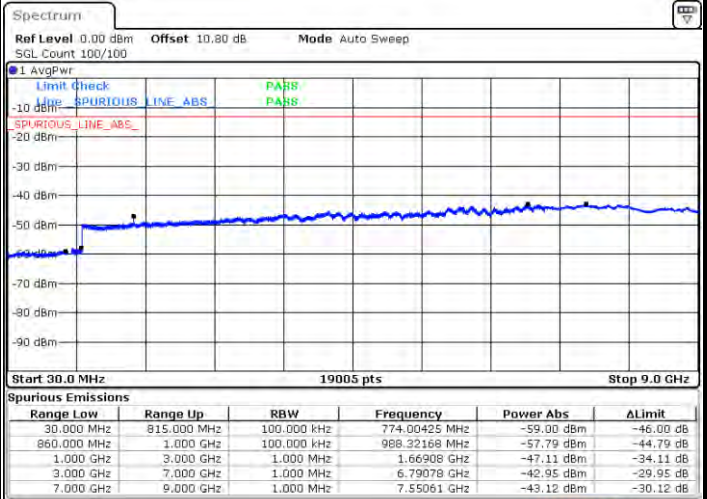
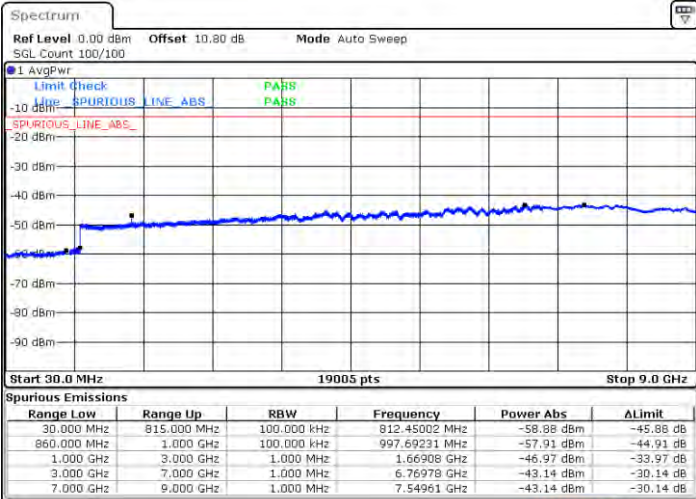


Date: 4 DEC.2019 19:38:47

Date: 4 DEC.2019 19:39:28

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4 DEC.2019 19:40:55

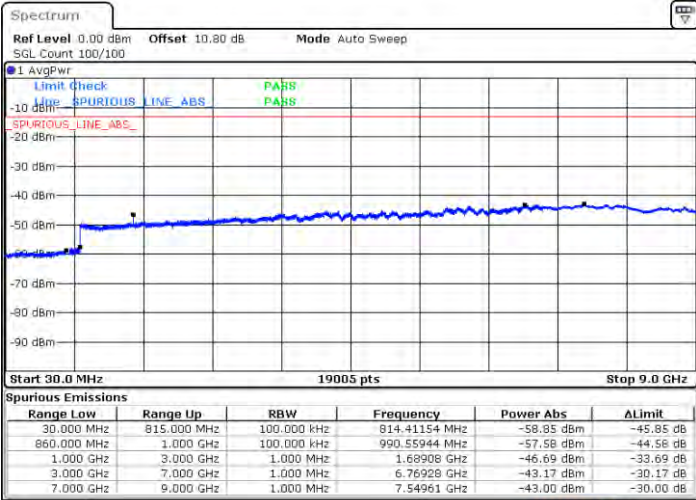
Date: 4 DEC.2019 19:41:35



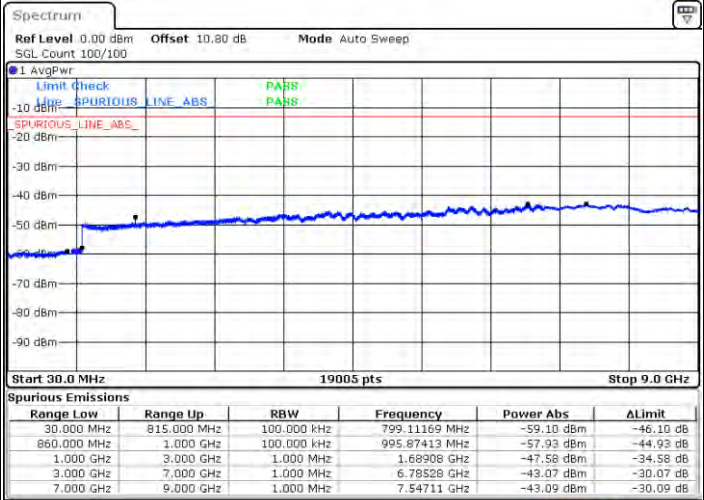
LTE Band 5 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 DEC 2019 21:53:31

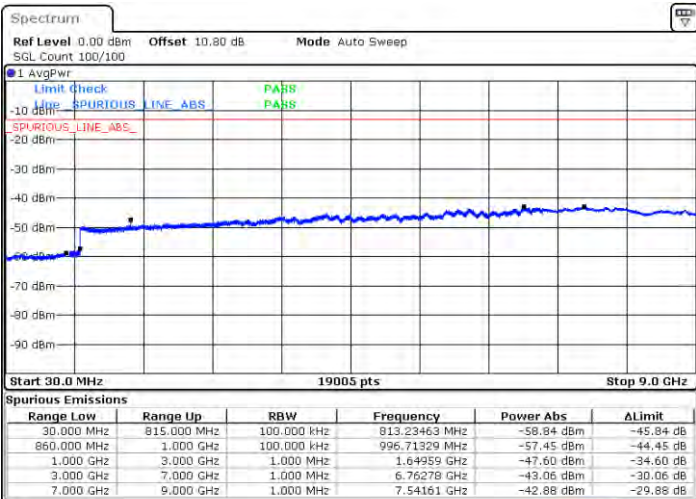


Date: 4 DEC 2019 21:54:12

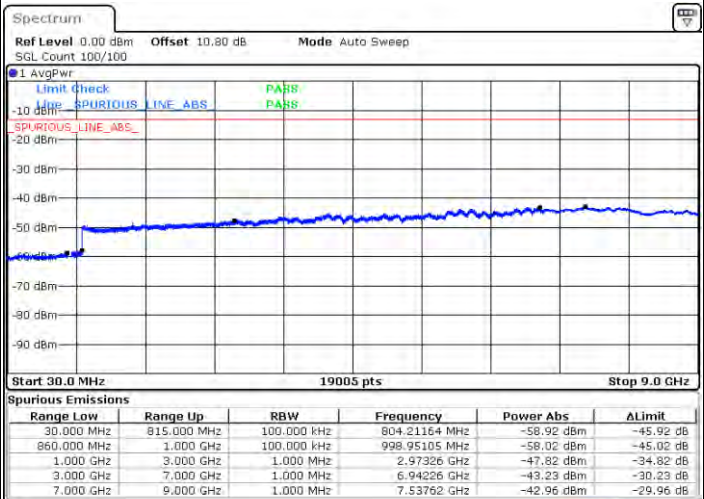
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 4 DEC 2019 22:27:43



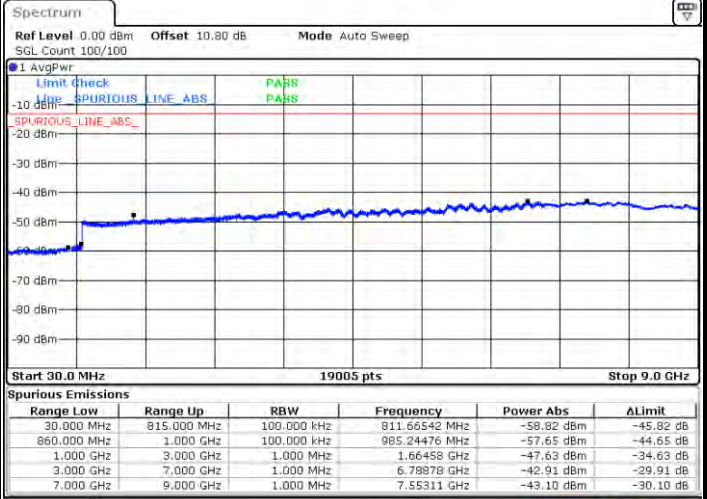
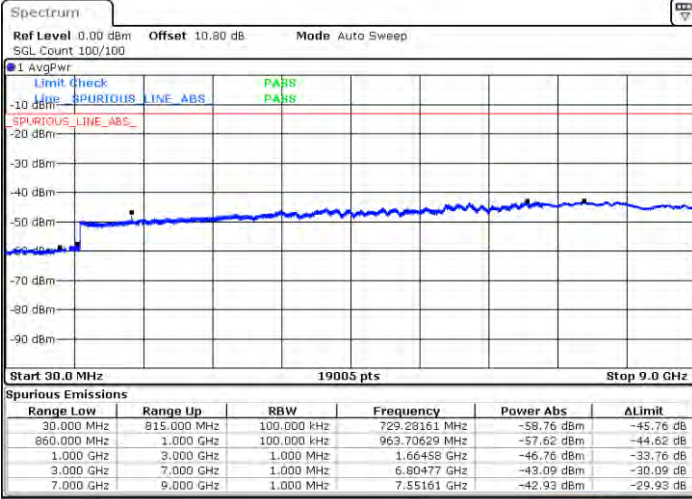
Date: 4 DEC 2019 22:28:24



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

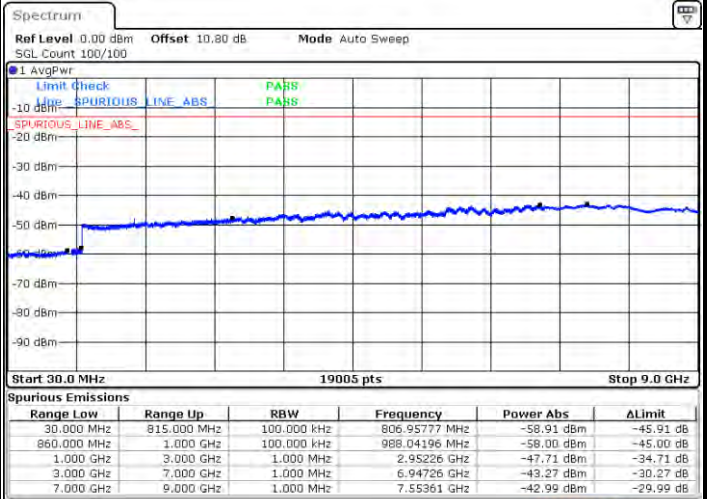
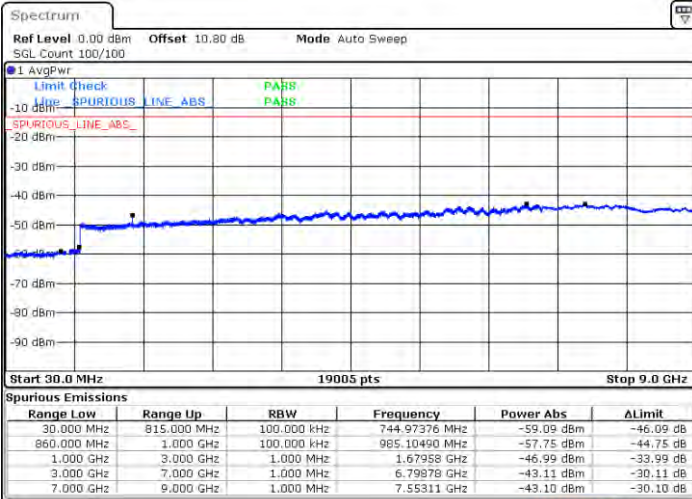


Date: 4 DEC 2019 22:29:50

Date: 4 DEC 2019 22:30:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 DEC 2019 22:38:42

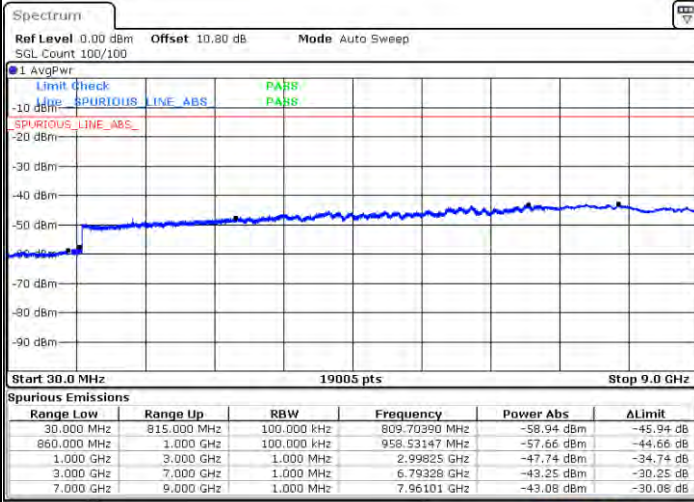
Date: 4 DEC 2019 22:38:23



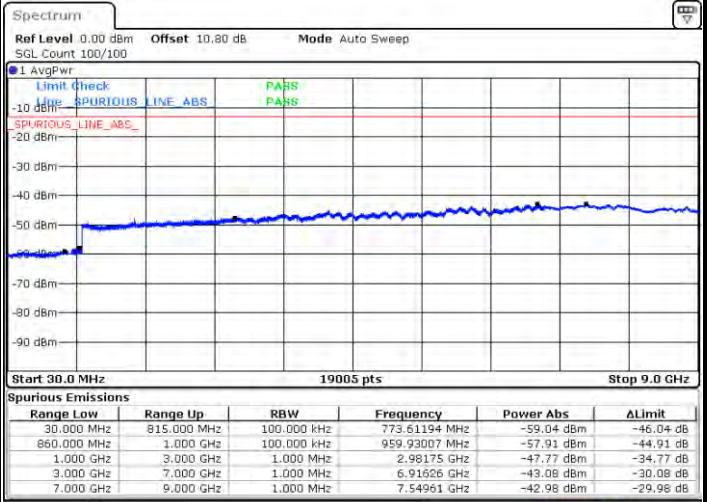
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

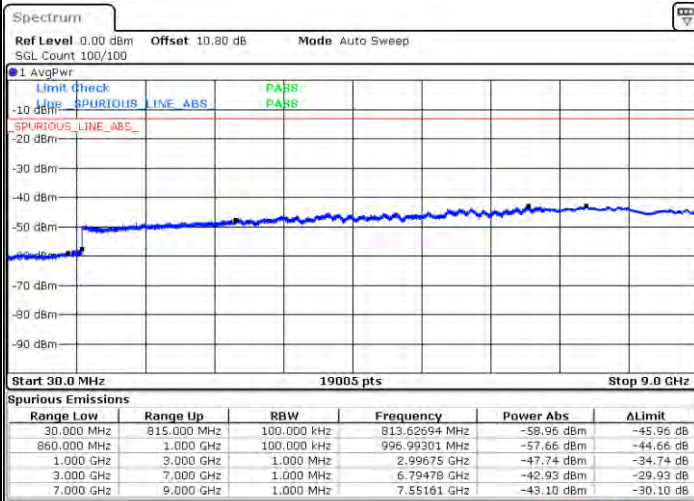


Date: 4 DEC 2019 23:10:19



Date: 4 DEC 2019 23:11:22

Highest Channel / 64QAM

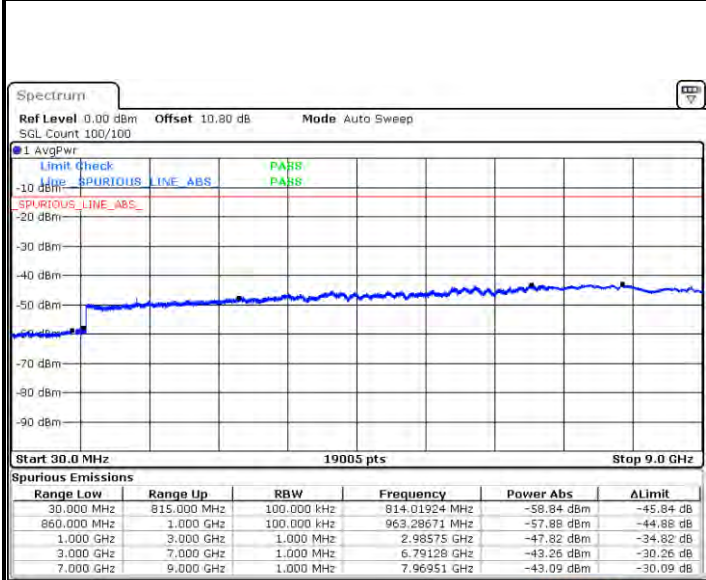


Date: 4 DEC 2019 23:15:47



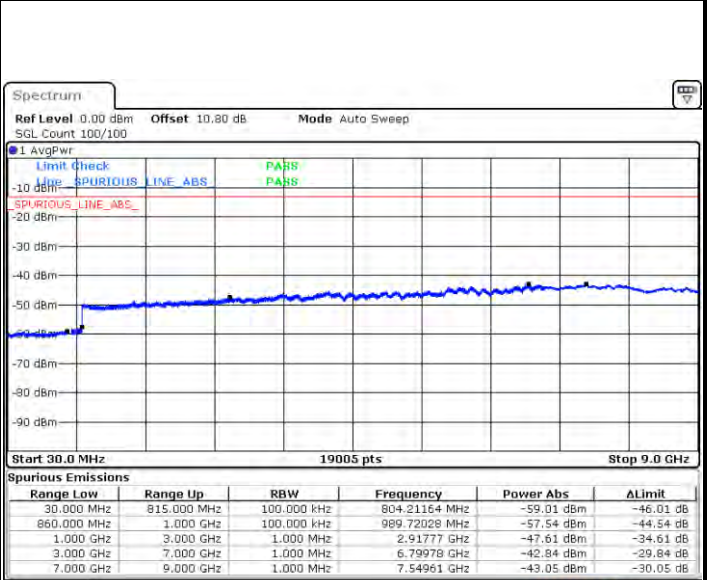
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



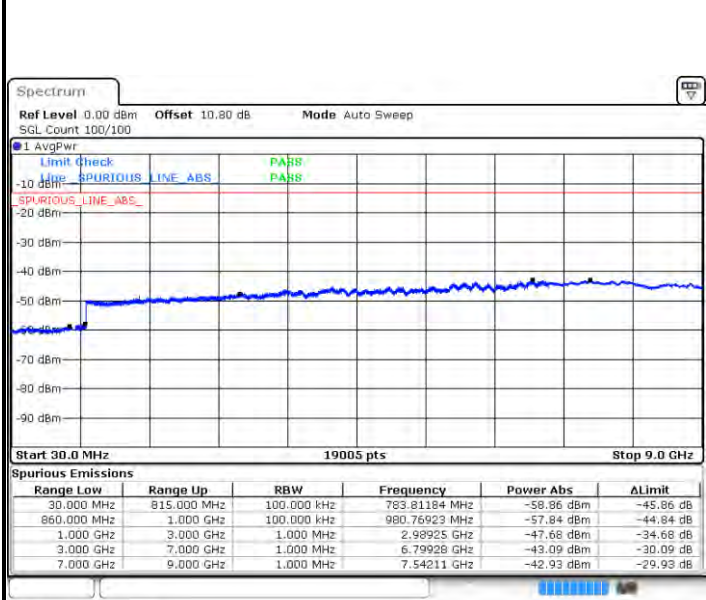
Date: 4 DEC 2019 19:25:06

Middle Channel / 64QAM



Date: 4 DEC 2019 19:26:09

Highest Channel / 64QAM



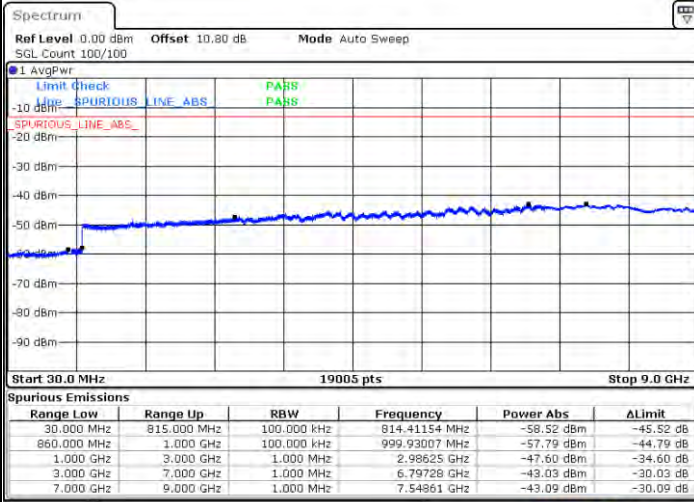
Date: 4 DEC 2019 19:30:35



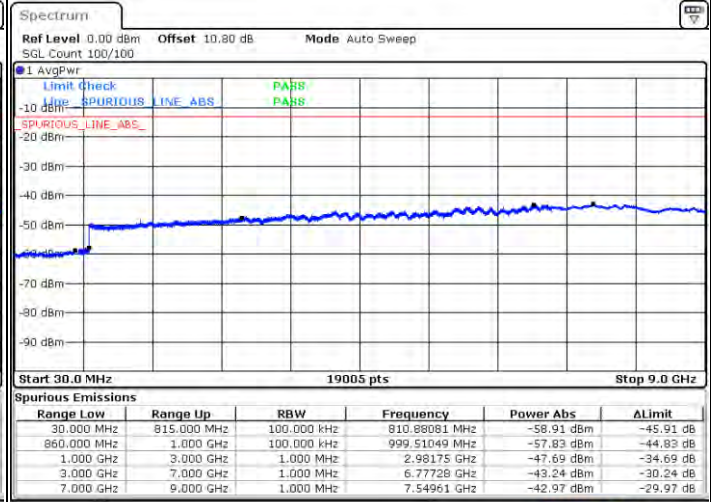
LTE Band 5 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

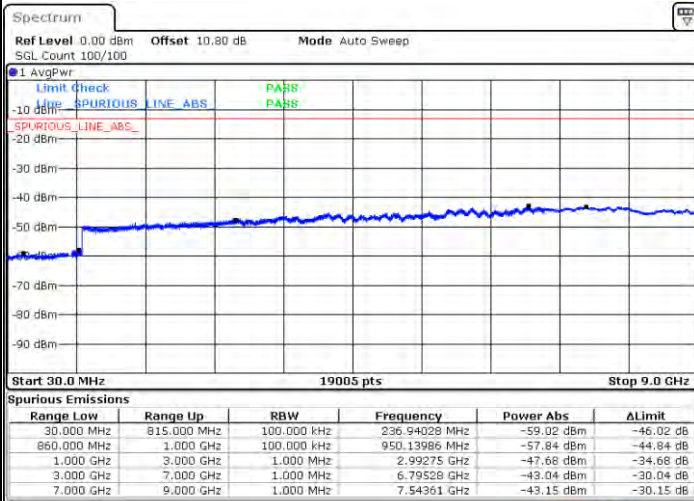


Date: 4 DEC 2019 22:11:58



Date: 4 DEC 2019 22:13:01

Highest Channel / 64QAM



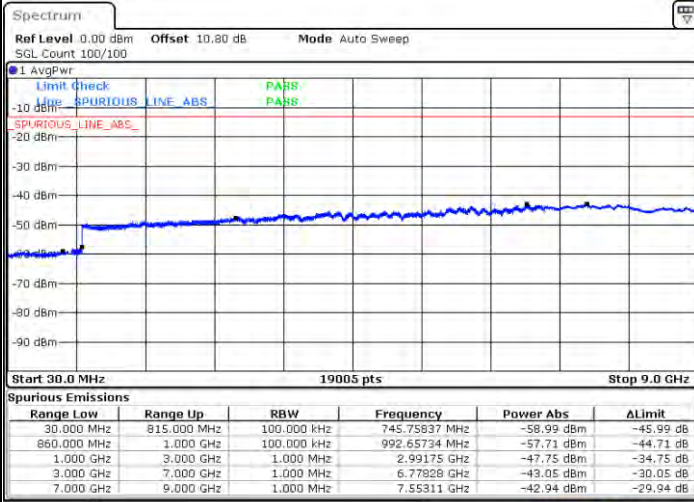
Date: 4 DEC 2019 22:40:04



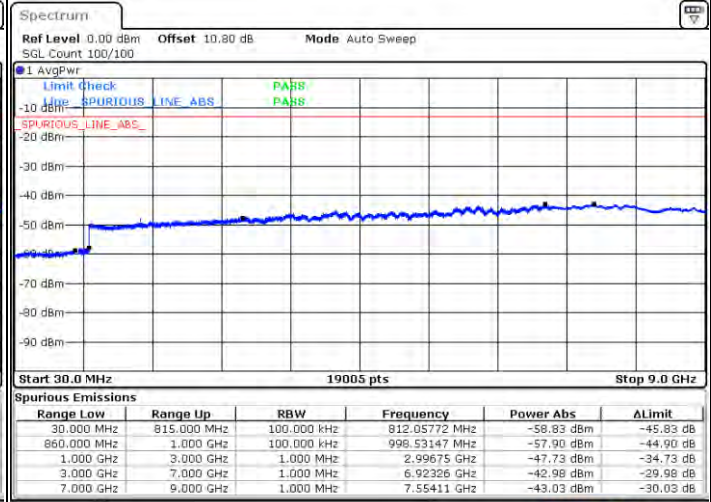
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

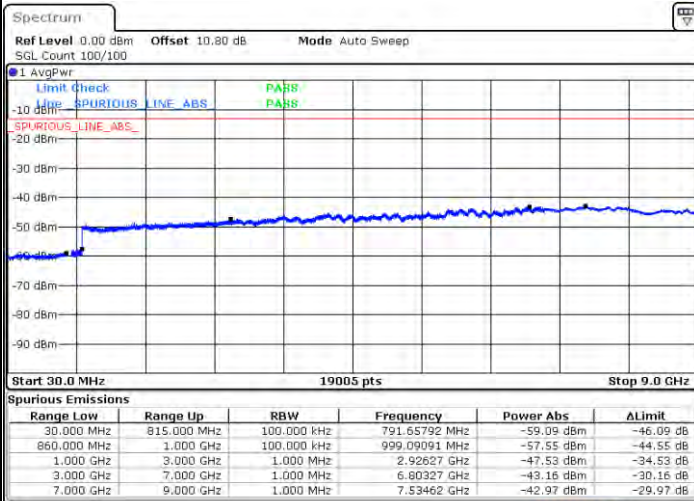


Date: 4 DEC 2019 22:44:31



Date: 4 DEC 2019 22:45:34

Highest Channel / 64QAM



Date: 4 DEC 2019 22:50:00



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	0.0081	PASS
40	Normal Voltage	0.0104	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0097	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0093	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0093	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 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	4.35	4.70	5.16	5.77	PASS
Middle CH	4.38	4.87	4.90	5.88	
Highest CH	4.38	4.70	5.04	5.68	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.23	6.17	-	-	PASS
Middle CH	6.55	6.26	-	-	
Highest CH	6.03	6.17	-	-	



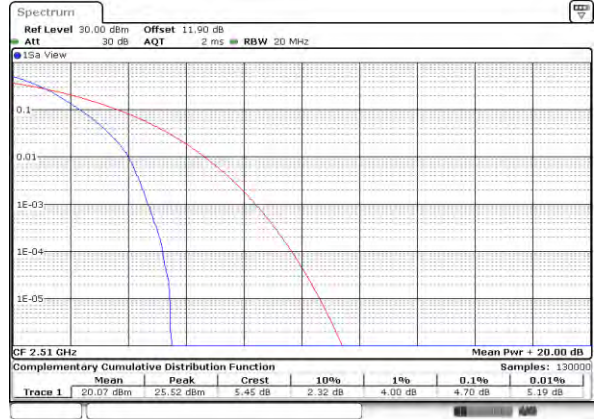
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



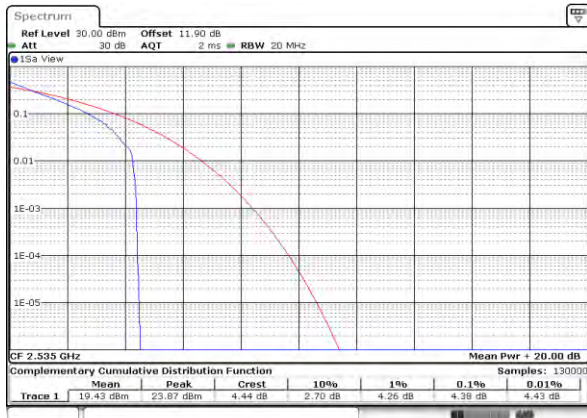
Date: 4 DEC 2019 17:45:15

Lowest Channel / Full RB



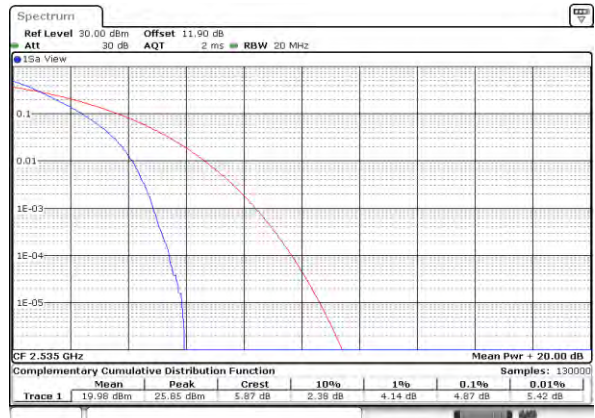
Date: 4 DEC 2019 17:45:25

Middle Channel / 1RB



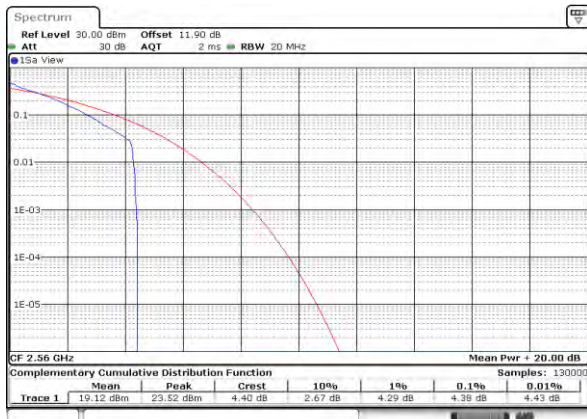
Date: 4 DEC 2019 17:45:37

Middle Channel / Full RB



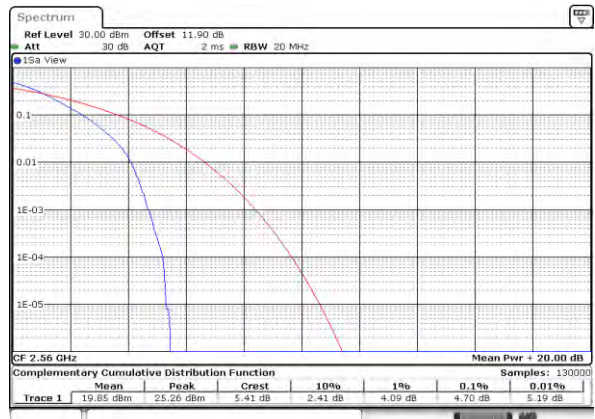
Date: 4 DEC 2019 17:46:26

Highest Channel / 1RB



Date: 4 DEC 2019 17:46:50

Highest Channel / Full RB



Date: 4 DEC 2019 17:47:07



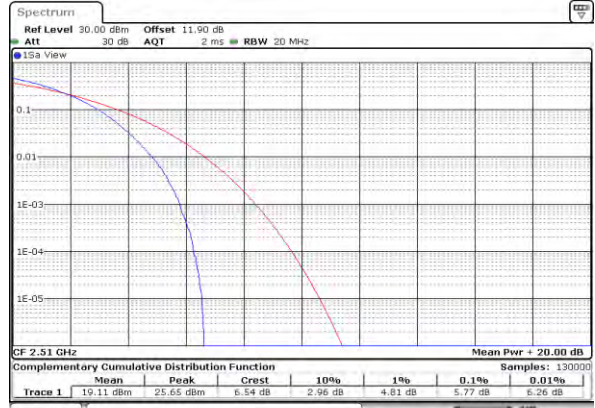
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



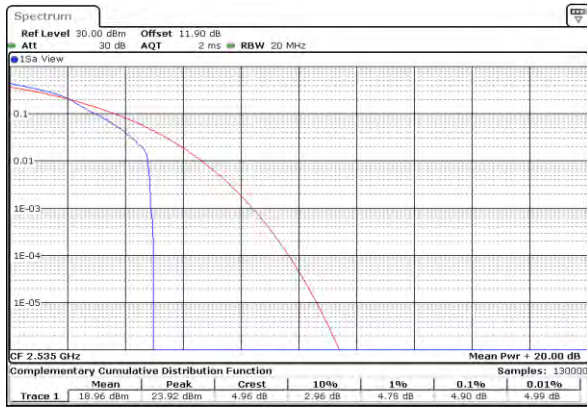
Date: 4 DEC 2019 17:42:41

Lowest Channel / Full RB



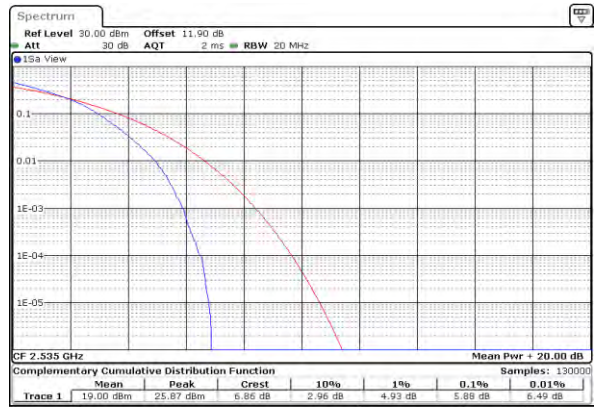
Date: 4 DEC 2019 17:42:52

Middle Channel / 1RB



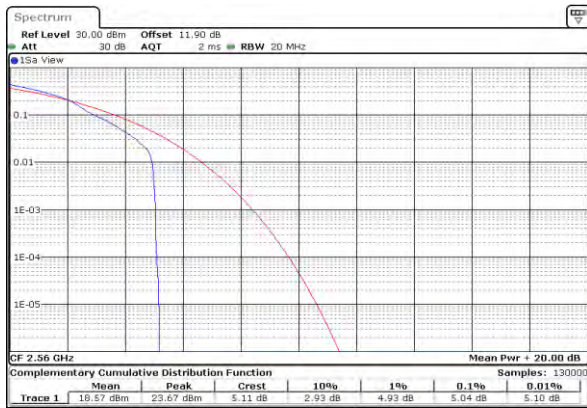
Date: 4 DEC 2019 17:43:14

Middle Channel / Full RB



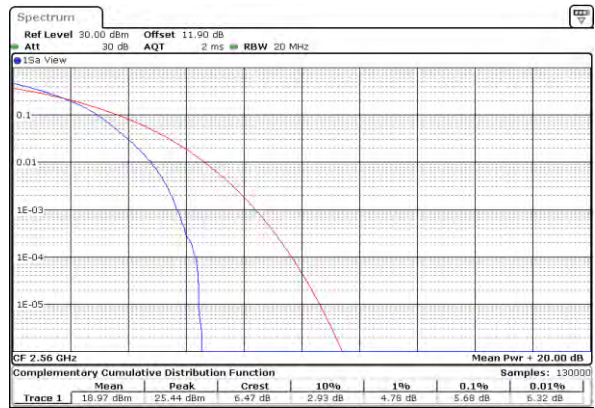
Date: 4 DEC 2019 17:43:36

Highest Channel / 1RB



Date: 4 DEC 2019 17:43:52

Highest Channel / Full RB

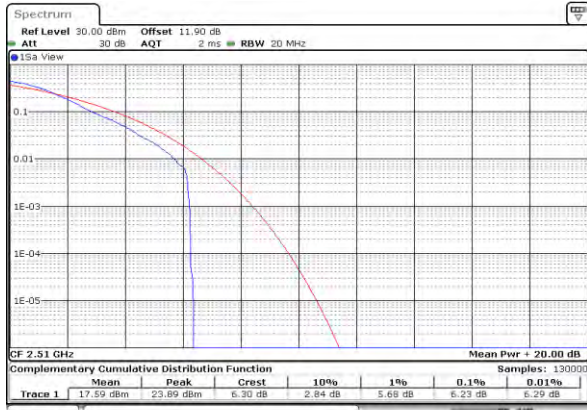


Date: 4 DEC 2019 17:44:17



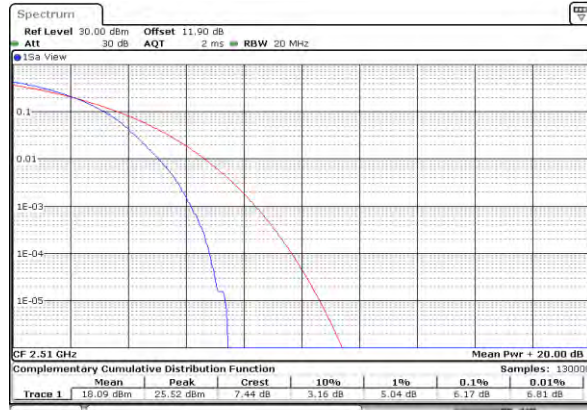
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 4 DEC 2019 17:47:54

Lowest Channel / Full RB



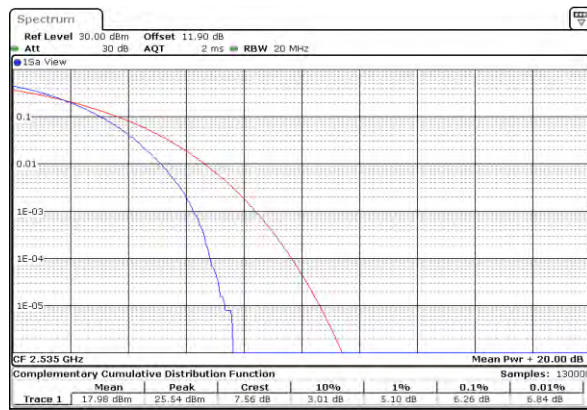
Date: 4 DEC 2019 17:48:05

Middle Channel / 1RB



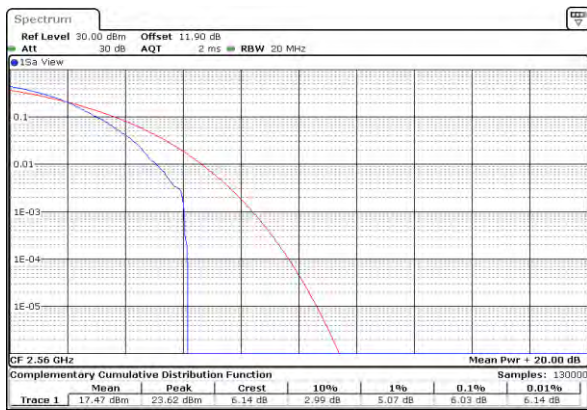
Date: 4 DEC 2019 17:48:19

Middle Channel / Full RB



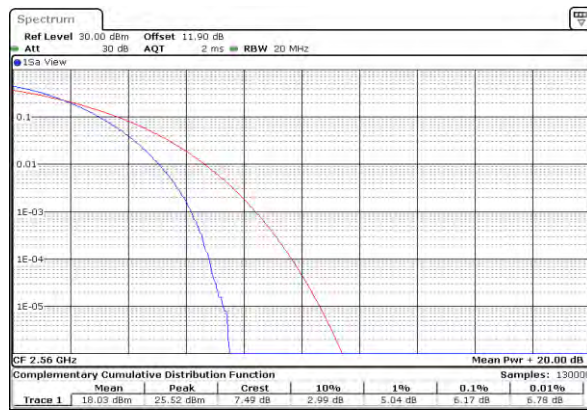
Date: 4 DEC 2019 17:49:20

Highest Channel / 1RB



Date: 4 DEC 2019 17:49:31

Highest Channel / Full RB



Date: 4 DEC 2019 18:38:24



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	-	-	-	-	4.81	4.88	9.81	9.59	14.30	14.15	18.82	18.90
Middle CH	-	-	-	-	4.89	4.80	9.87	9.89	14.42	14.30	19.10	18.98
Highest CH	-	-	-	-	4.84	4.92	9.79	9.77	14.48	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	-	-	-	-	4.83	-	9.69	-	14.24	-	18.70	-
Middle CH	-	-	-	-	4.94	-	9.71	-	14.33	-	18.78	-
Highest CH	-	-	-	-	4.92	-	9.75	-	14.30	-	19.06	-