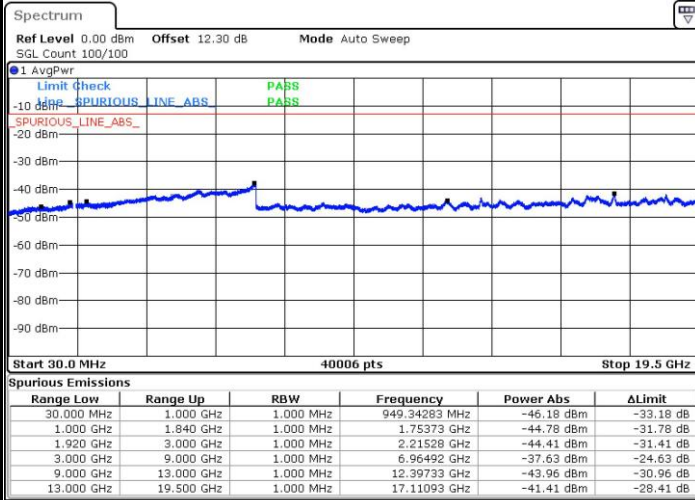




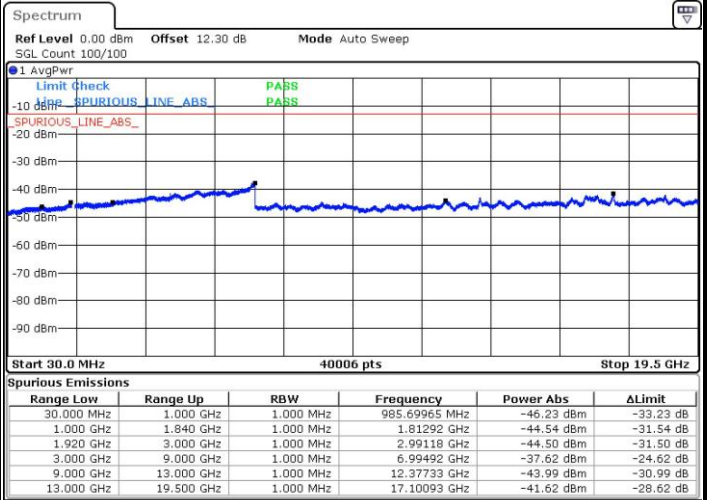
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 18.JUL.2018 08:50:22

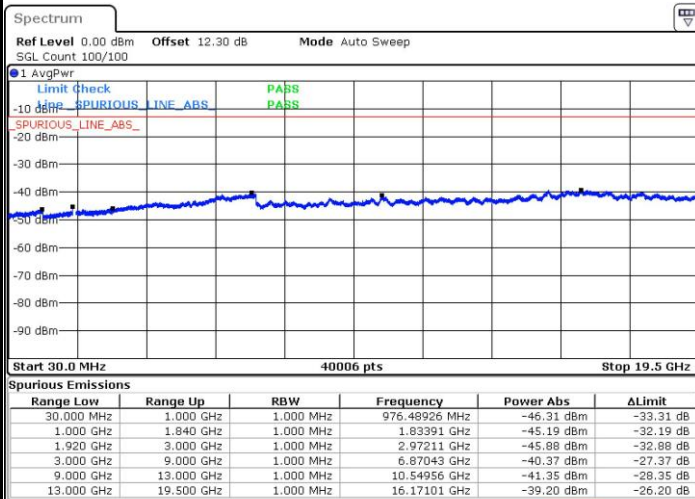
Highest Channel / 16QAM



Date: 18.JUL.2018 08:51:24

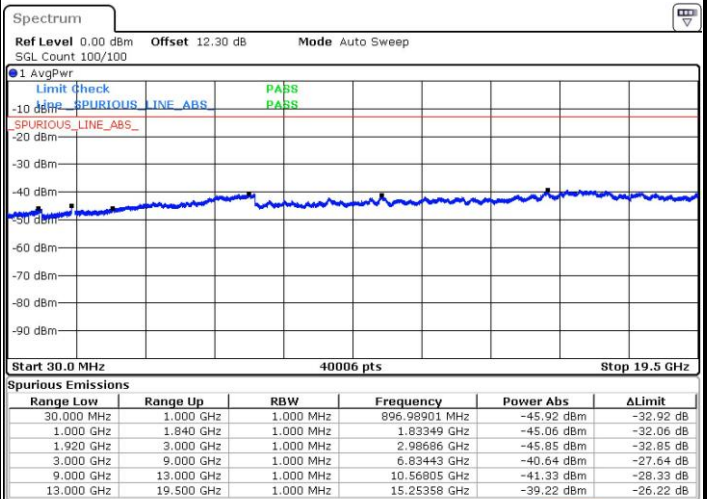
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 20.JUL.2018 01:08:59

Lowest Channel / 16QAM



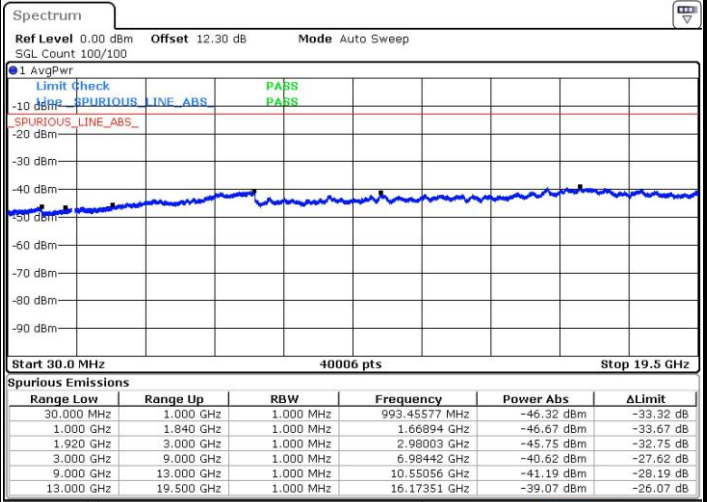
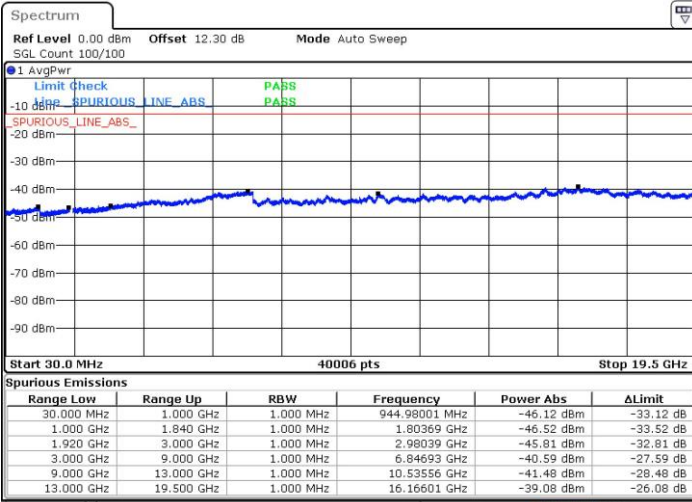
Date: 20.JUL.2018 01:10:00



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

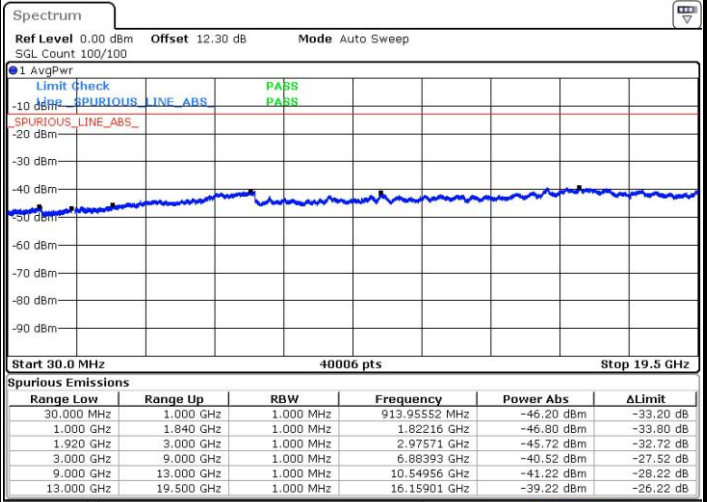
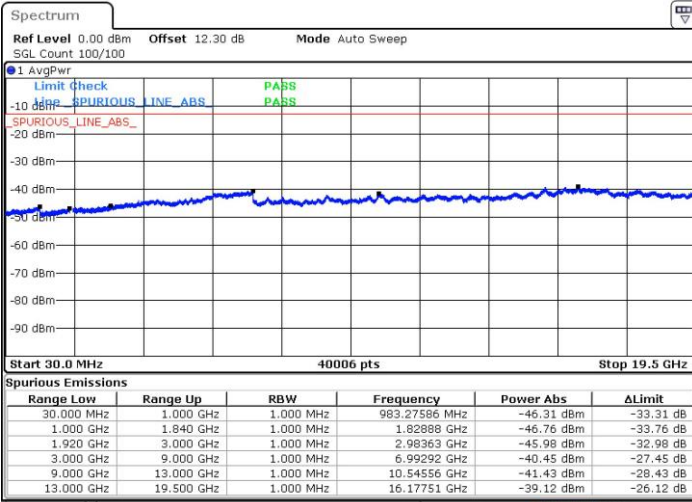


Date: 20 JUL 2018 01:11:40

Date: 20 JUL 2018 01:12:39

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 JUL 2018 01:19:09

Date: 20 JUL 2018 01:20:09



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0060	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0057	

Note:

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



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.09	4.67	4.9	5.65	PASS
Middle CH	3.94	4.72	4.55	5.65	
Highest CH	4.12	4.61	4.99	5.57	



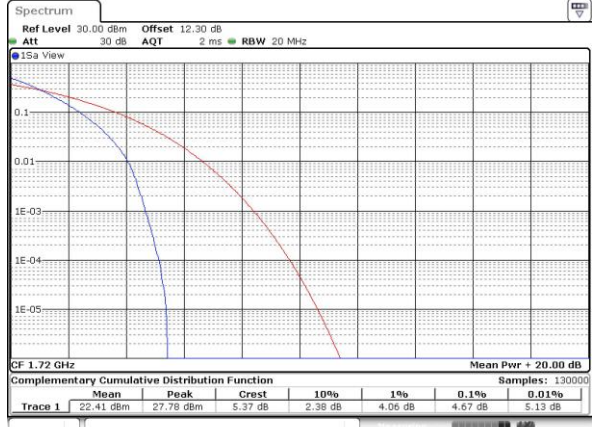
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



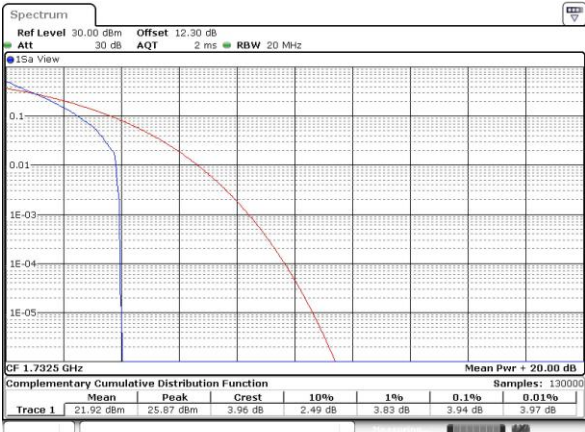
Date: 20 JUL 2018 03:46:41

Lowest Channel / Full RB



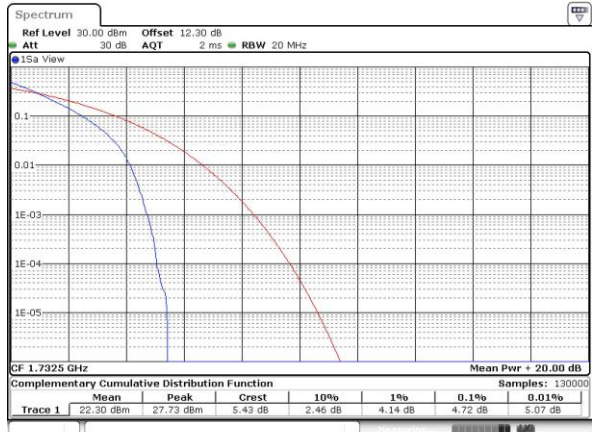
Date: 20 JUL 2018 03:47:12

Middle Channel / 1RB



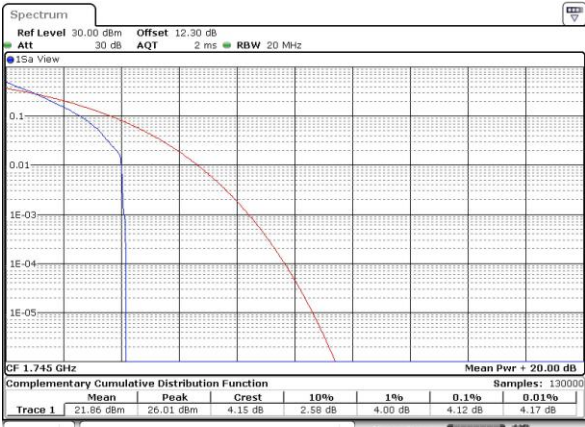
Date: 20 JUL 2018 03:47:21

Middle Channel / Full RB



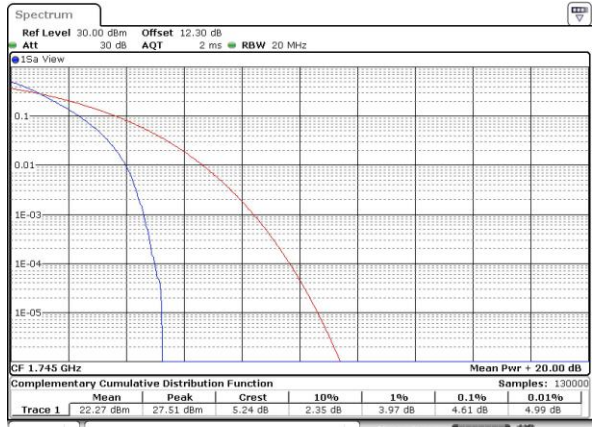
Date: 20 JUL 2018 03:47:31

Highest Channel / 1RB



Date: 20 JUL 2018 03:47:40

Highest Channel / Full RB

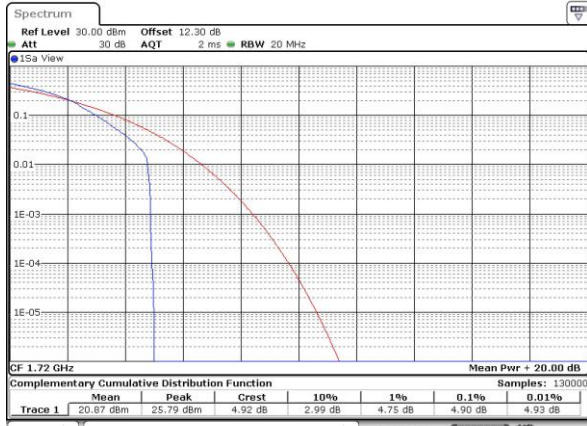


Date: 20 JUL 2018 03:47:50



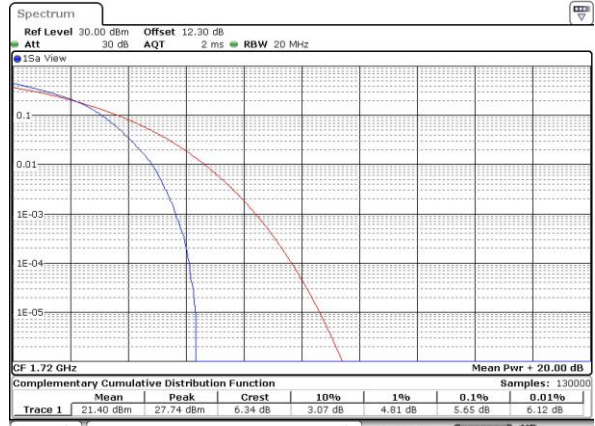
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



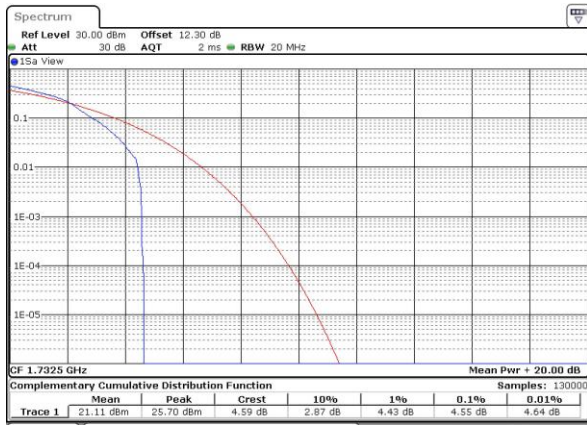
Date: 20 JUL 2018 03:43:27

Lowest Channel / Full RB



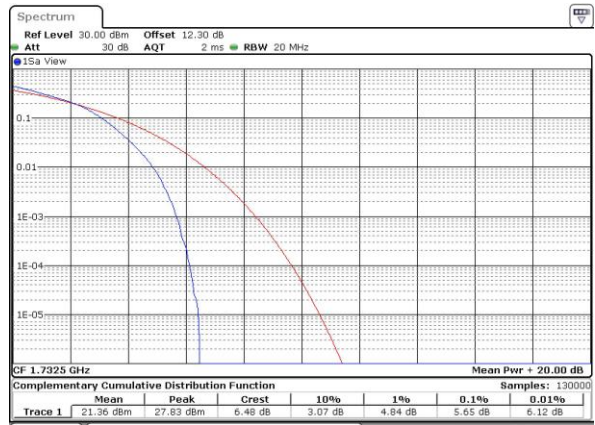
Date: 20 JUL 2018 03:43:37

Middle Channel / 1RB



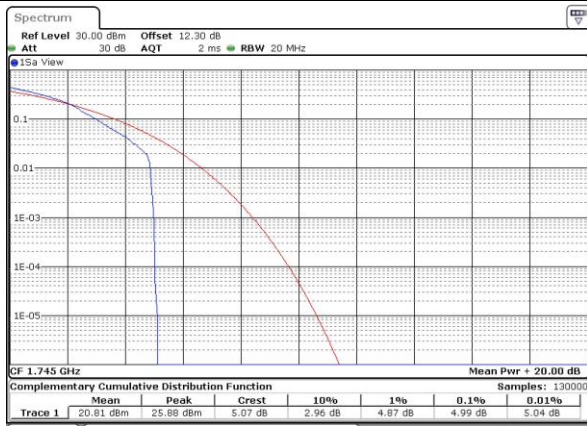
Date: 20 JUL 2018 03:45:58

Middle Channel / Full RB



Date: 20 JUL 2018 03:46:09

Highest Channel / 1RB



Date: 20 JUL 2018 03:46:22

Highest Channel / Full RB



Date: 20 JUL 2018 03:46:32



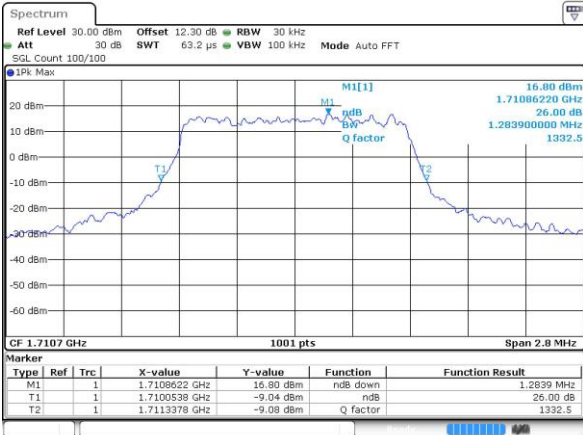
26dB Bandwidth

Mode	LTE Band 4 : 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	1.28	1.27	3.05	2.99	4.94	4.92	9.95	9.87	14.63	14.36	20.1	20.14
Middle CH	1.30	1.27	3.02	3.00	4.91	4.96	9.75	9.77	14.51	14.51	20.06	20.18
Highest CH	1.26	1.28	3.03	3.02	4.97	5.02	9.89	9.91	14.48	14.33	20.26	20.14



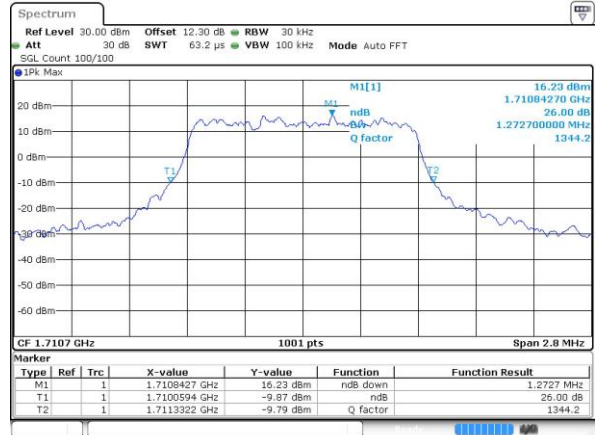
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



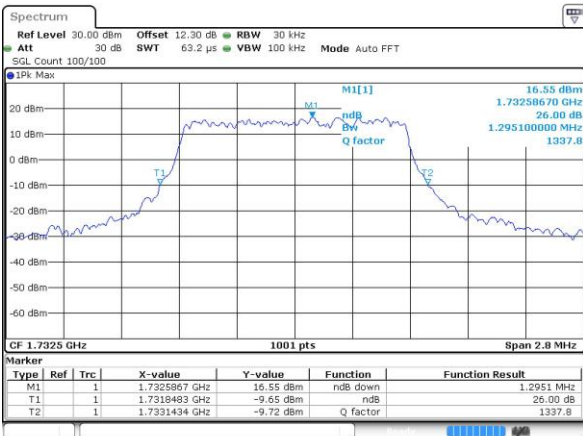
Date: 20 JUL 2018 03:08:43

Lowest Channel / 1.4MHz / 16QAM



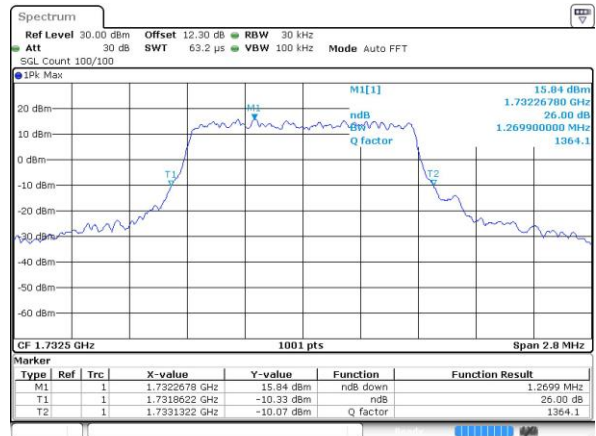
Date: 20 JUL 2018 03:08:53

Middle Channel / 1.4MHz / QPSK



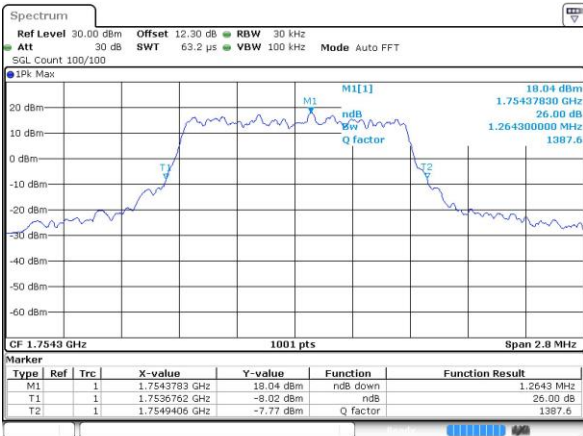
Date: 20 JUL 2018 03:16:08

Middle Channel / 1.4MHz / 16QAM



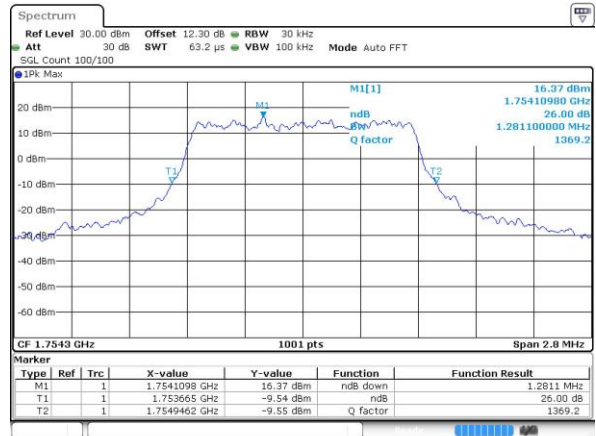
Date: 20 JUL 2018 03:16:19

Highest Channel / 1.4MHz / QPSK



Date: 20 JUL 2018 03:18:49

Highest Channel / 1.4MHz / 16QAM

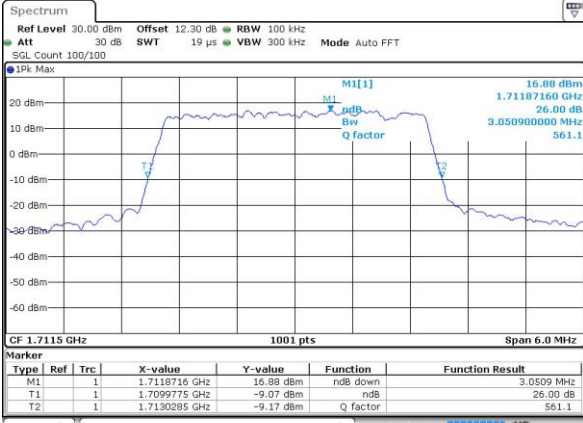


Date: 20 JUL 2018 03:18:59



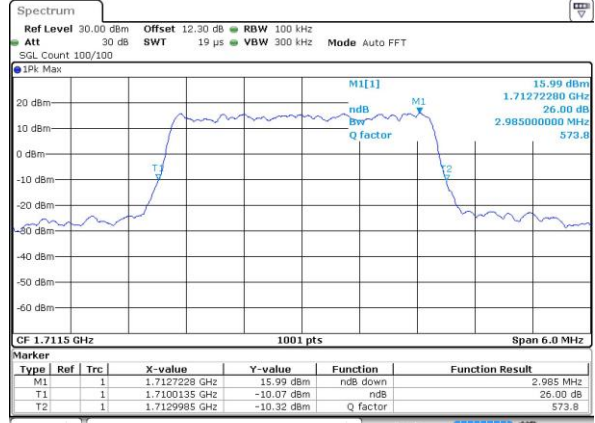
LTE Band 4

Lowest Channel / 3MHz / QPSK



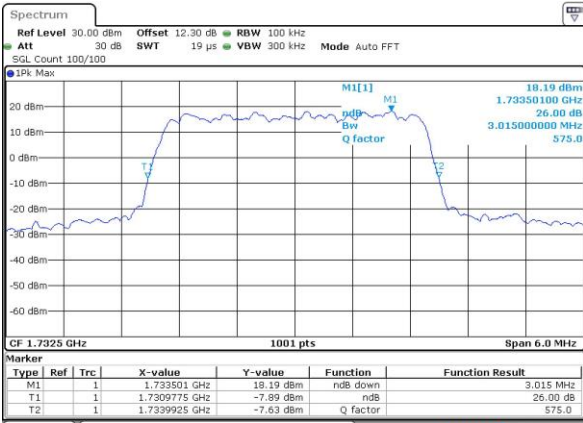
Date: 20 JUL 2018 01:41:09

Lowest Channel / 3MHz / 16QAM



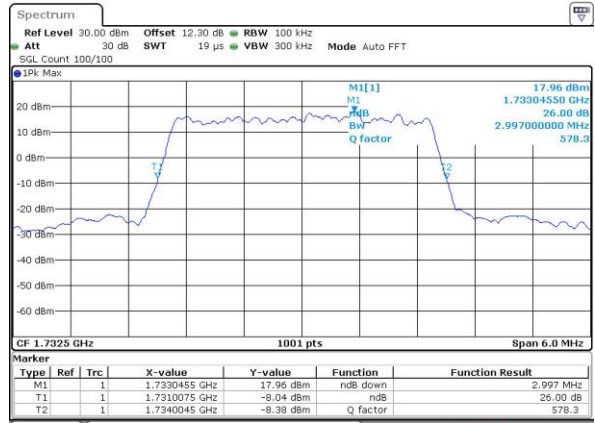
Date: 20 JUL 2018 01:41:20

Middle Channel / 3MHz / QPSK



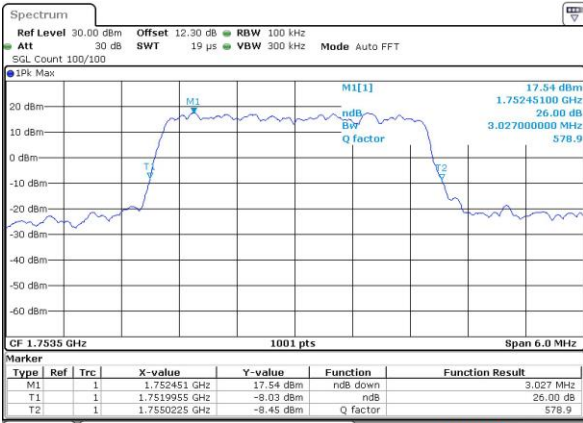
Date: 20 JUL 2018 01:48:35

Middle Channel / 3MHz / 16QAM



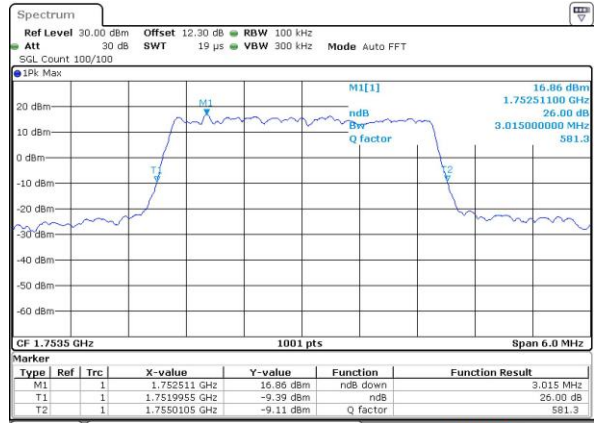
Date: 20 JUL 2018 01:48:45

Highest Channel / 3MHz / QPSK



Date: 20 JUL 2018 01:51:15

Highest Channel / 3MHz / 16QAM

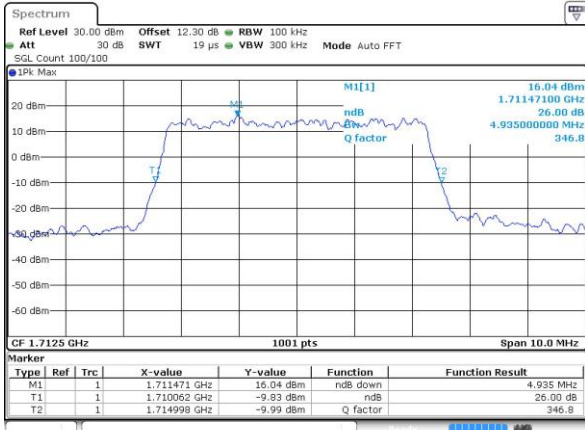


Date: 20 JUL 2018 01:51:25



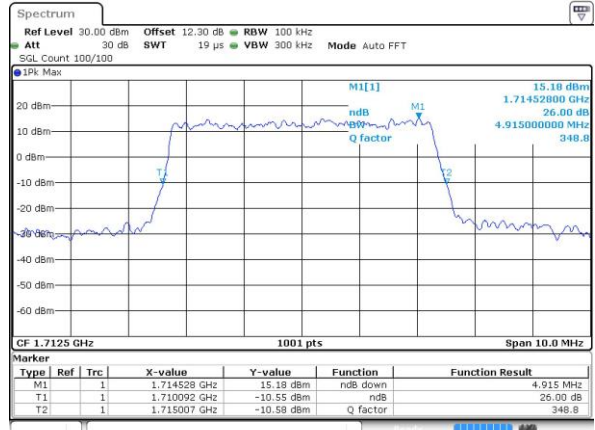
LTE Band 4

Lowest Channel / 5MHz / QPSK



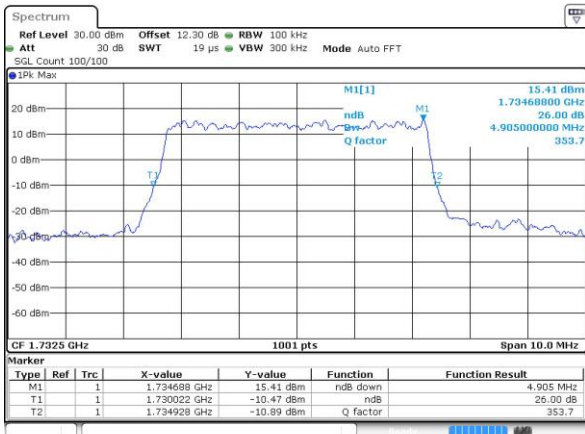
Date: 20 JUL 2018 01:58:42

Lowest Channel / 5MHz / 16QAM



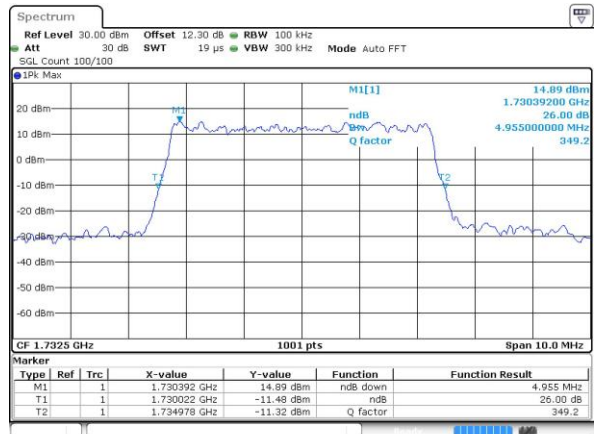
Date: 20 JUL 2018 01:58:52

Middle Channel / 5MHz / QPSK



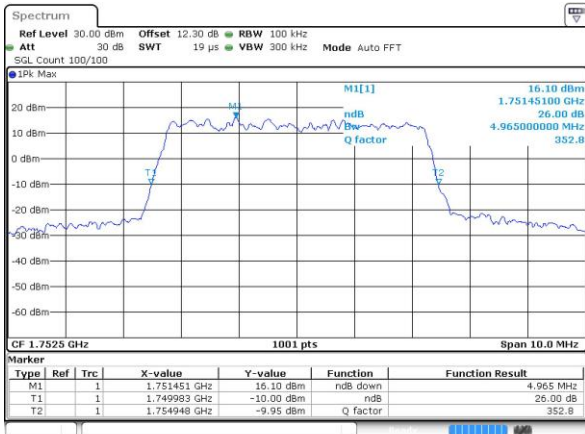
Date: 20 JUL 2018 02:06:06

Middle Channel / 5MHz / 16QAM



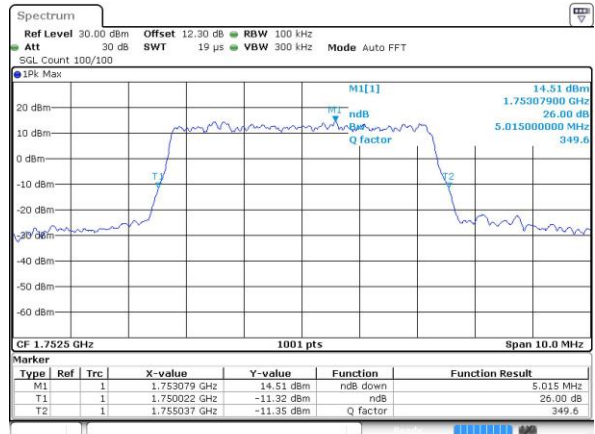
Date: 20 JUL 2018 02:06:17

Highest Channel / 5MHz / QPSK



Date: 20 JUL 2018 02:08:47

Highest Channel / 5MHz / 16QAM

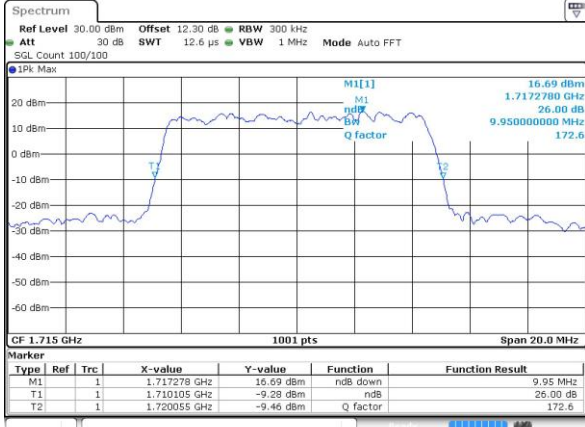


Date: 20 JUL 2018 02:08:57



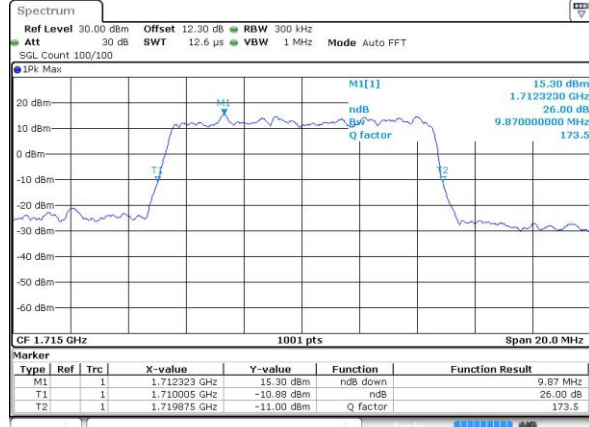
LTE Band 4

Lowest Channel / 10MHz / QPSK



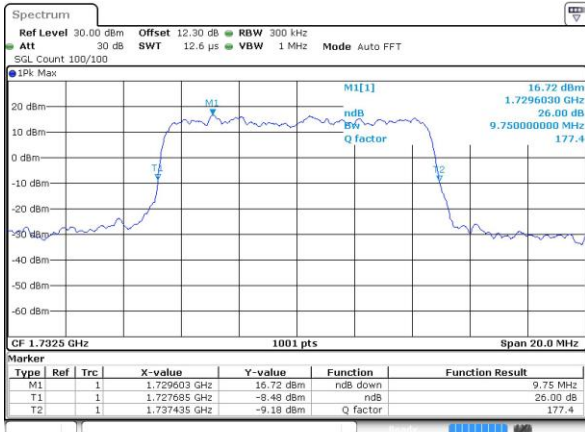
Date: 20 JUL 2018 02:16:13

Lowest Channel / 10MHz / 16QAM



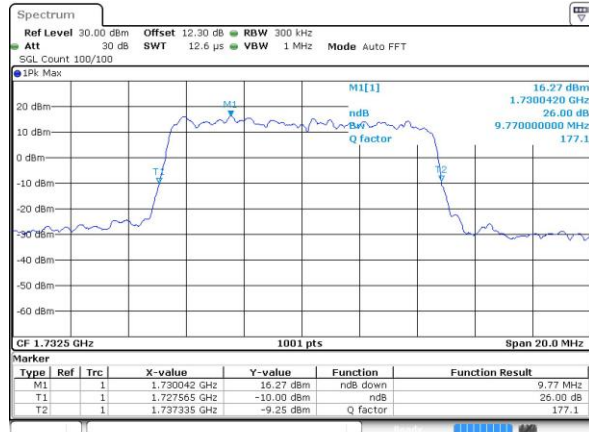
Date: 20 JUL 2018 02:16:23

Middle Channel / 10MHz / QPSK



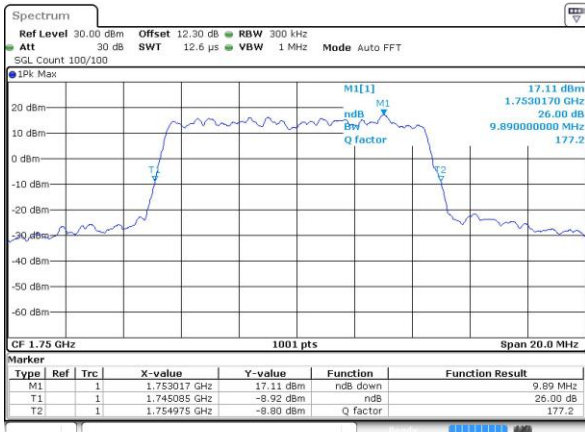
Date: 20 JUL 2018 02:23:35

Middle Channel / 10MHz / 16QAM



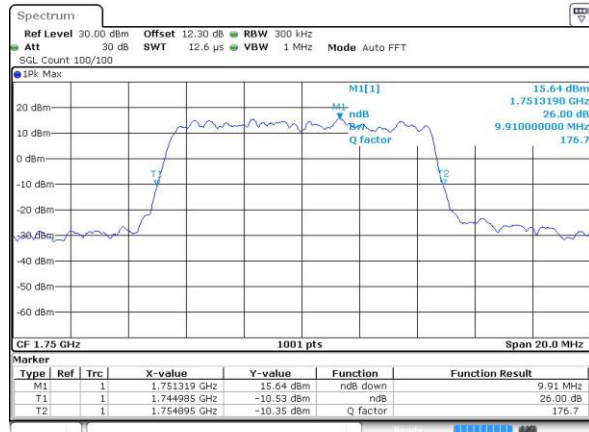
Date: 20 JUL 2018 02:23:45

Highest Channel / 10MHz / QPSK



Date: 20 JUL 2018 02:26:15

Highest Channel / 10MHz / 16QAM

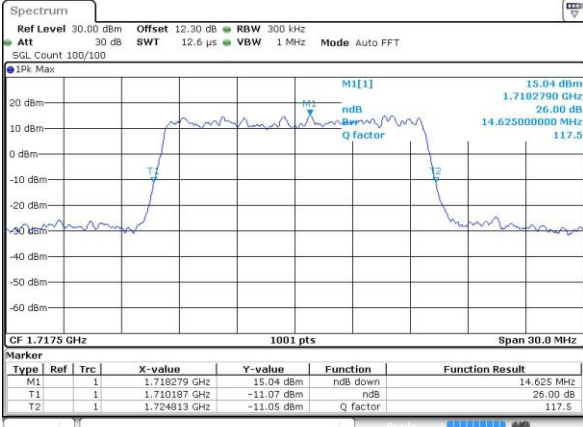


Date: 20 JUL 2018 02:26:25



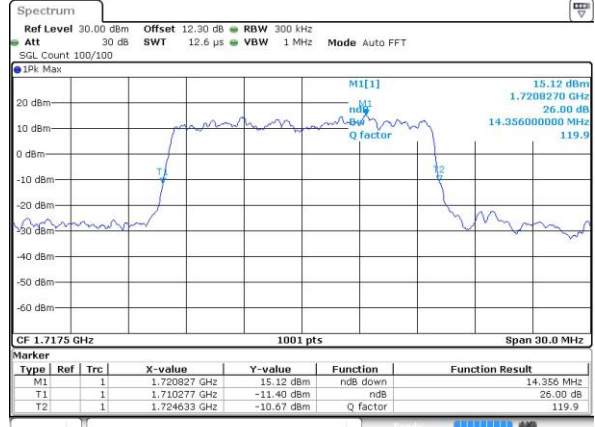
LTE Band 4

Lowest Channel / 15MHz / QPSK



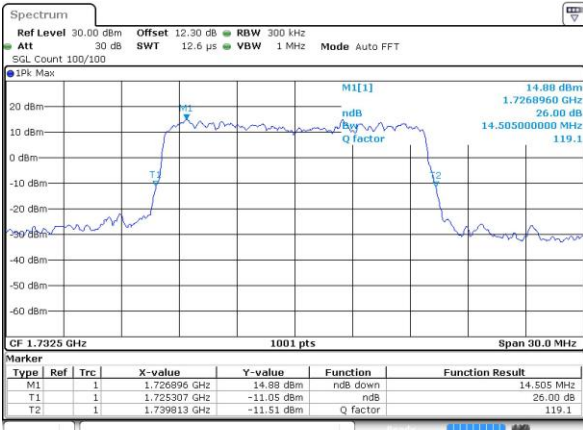
Date: 20 JUL 2018 02:33:39

Lowest Channel / 15MHz / 16QAM



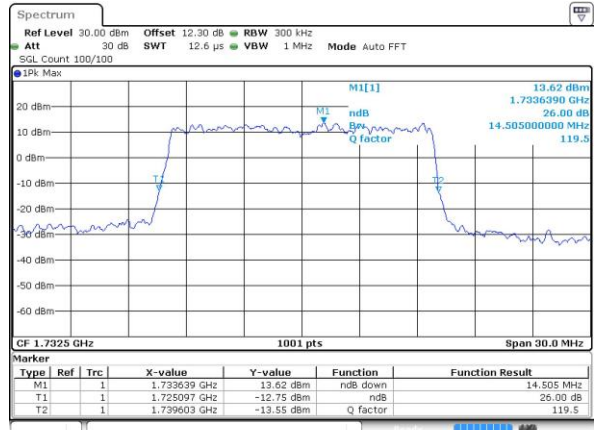
Date: 20 JUL 2018 02:33:49

Middle Channel / 15MHz / QPSK



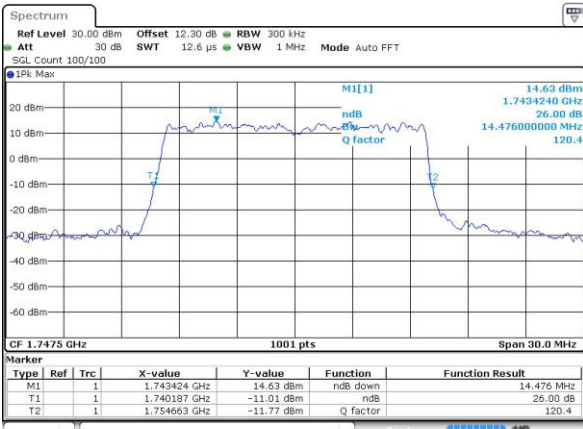
Date: 20 JUL 2018 02:41:06

Middle Channel / 15MHz / 16QAM



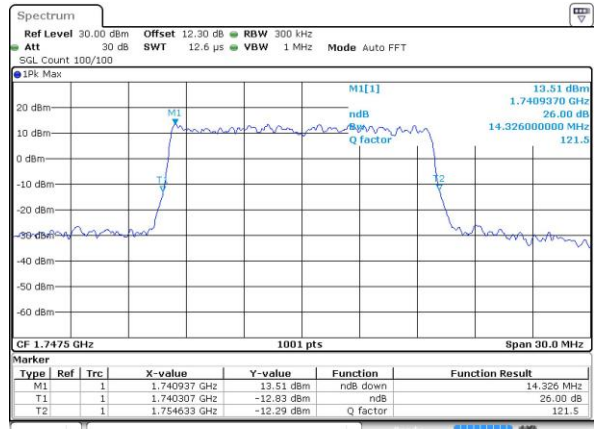
Date: 20 JUL 2018 02:41:16

Highest Channel / 15MHz / QPSK



Date: 20 JUL 2018 02:43:46

Highest Channel / 15MHz / 16QAM

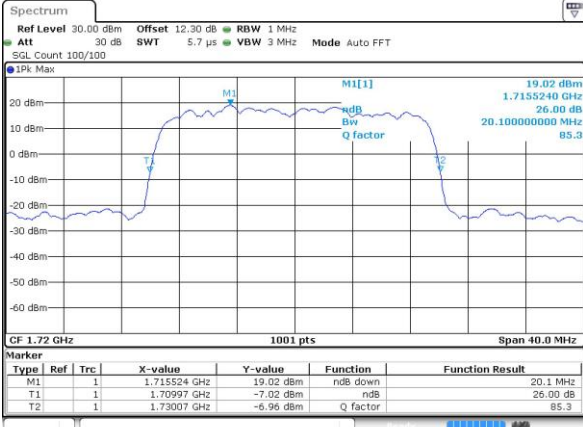


Date: 20 JUL 2018 02:43:56



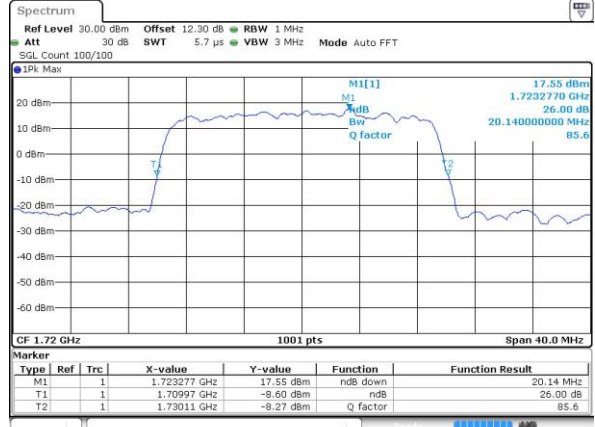
LTE Band 4

Lowest Channel / 20MHz / QPSK



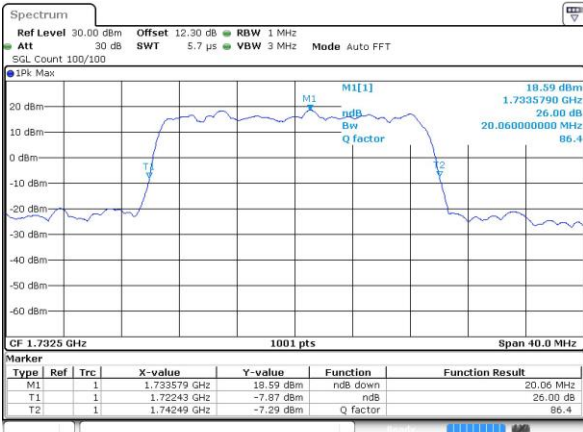
Date: 20 JUL 2018 02:51:12

Lowest Channel / 20MHz / 16QAM



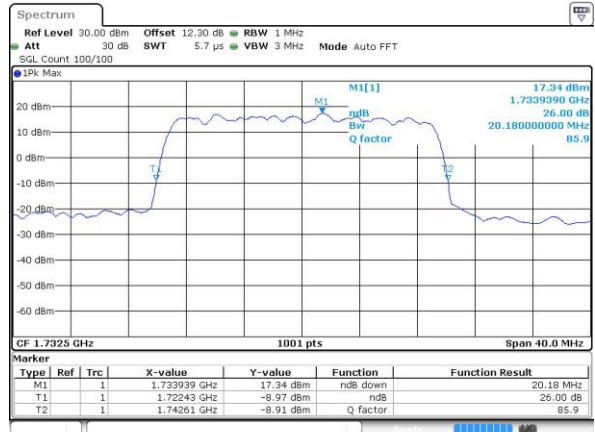
Date: 20 JUL 2018 02:51:22

Middle Channel / 20MHz / QPSK



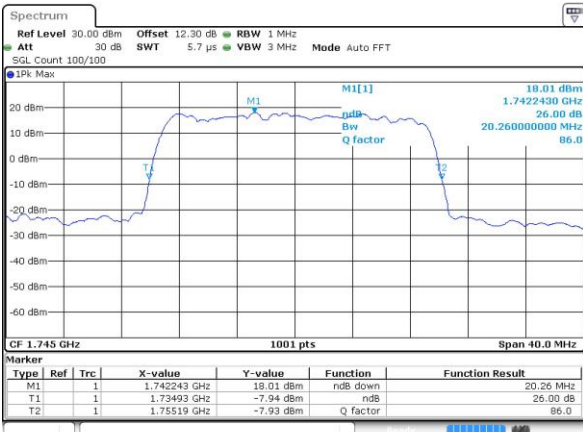
Date: 20 JUL 2018 02:58:37

Middle Channel / 20MHz / 16QAM



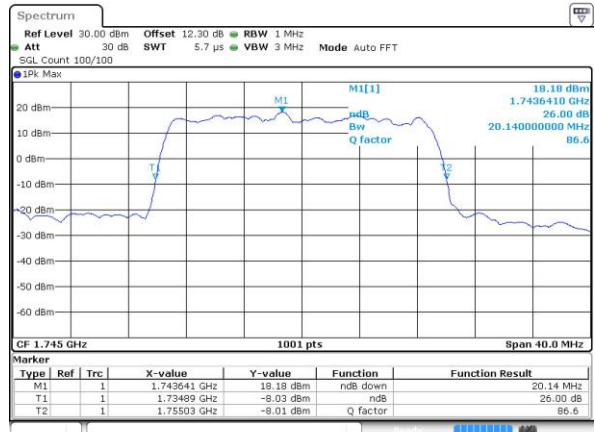
Date: 20 JUL 2018 02:58:47

Highest Channel / 20MHz / QPSK



Date: 20 JUL 2018 03:01:18

Highest Channel / 20MHz / 16QAM



Date: 20 JUL 2018 03:01:28



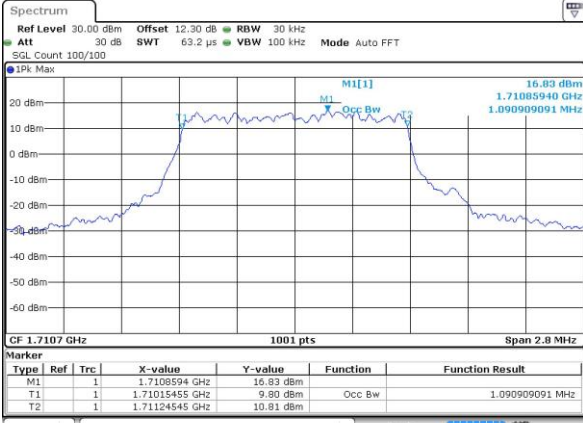
Occupied Bandwidth

Mode	LTE Band 4 : 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	1.09	2.72	2.72	4.49	4.5	9.05	9.01	13.43	13.43	18.3	18.3
Middle CH	1.1	1.1	2.74	2.72	4.52	4.51	9.03	9.01	13.4	13.49	18.46	18.46
Highest CH	1.1	1.09	2.72	2.72	4.49	4.48	9.05	9.01	13.46	13.4	18.5	18.18



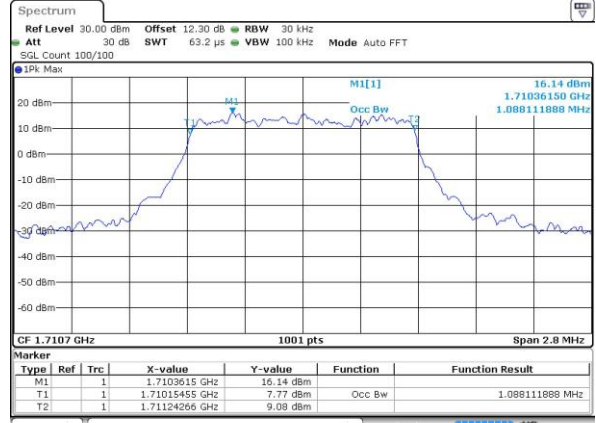
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



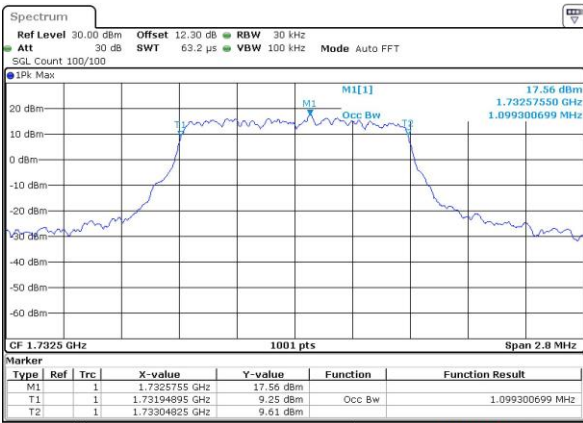
Date: 20 JUL 2018 03:08:23

Lowest Channel / 1.4MHz / 16QAM



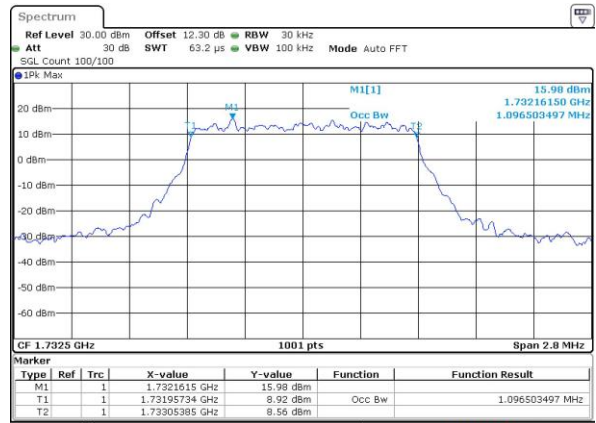
Date: 20 JUL 2018 03:08:33

Middle Channel / 1.4MHz / QPSK



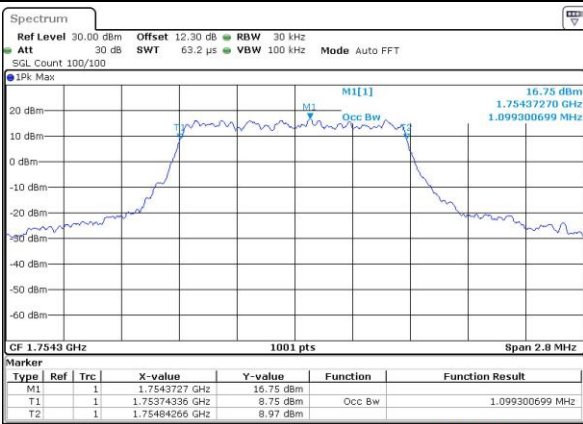
Date: 20 JUL 2018 03:15:48

Middle Channel / 1.4MHz / 16QAM



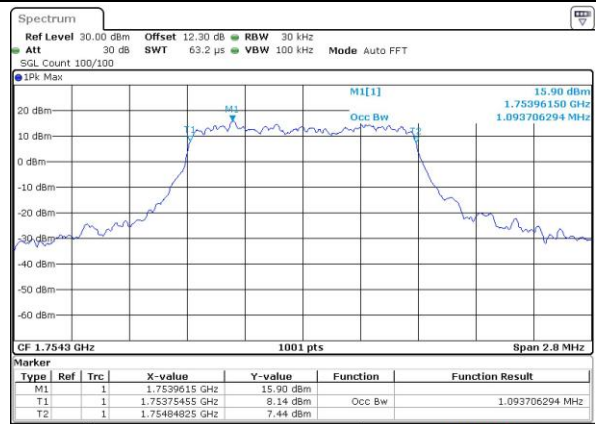
Date: 20 JUL 2018 03:15:58

Highest Channel / 1.4MHz / QPSK



Date: 20 JUL 2018 03:18:29

Highest Channel / 1.4MHz / 16QAM

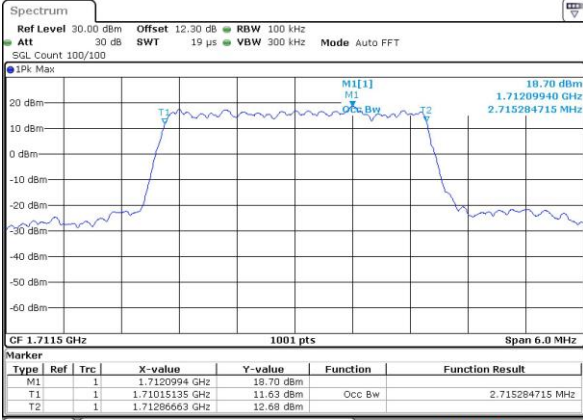


Date: 20 JUL 2018 03:18:39



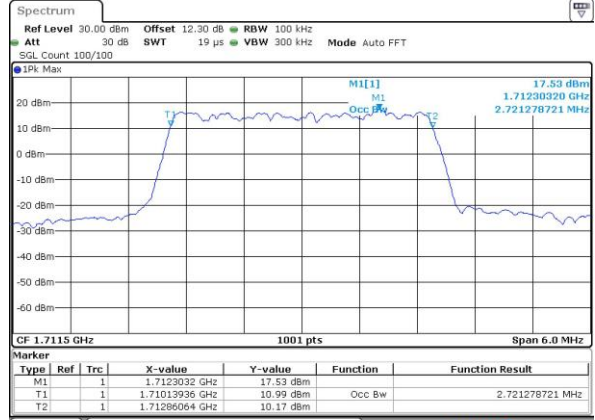
LTE Band 4

Lowest Channel / 3MHz / QPSK



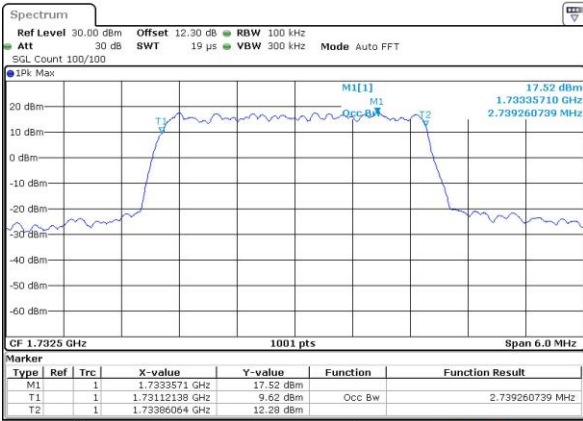
Date: 20_JUL 2018 01:40:49

Lowest Channel / 3MHz / 16QAM



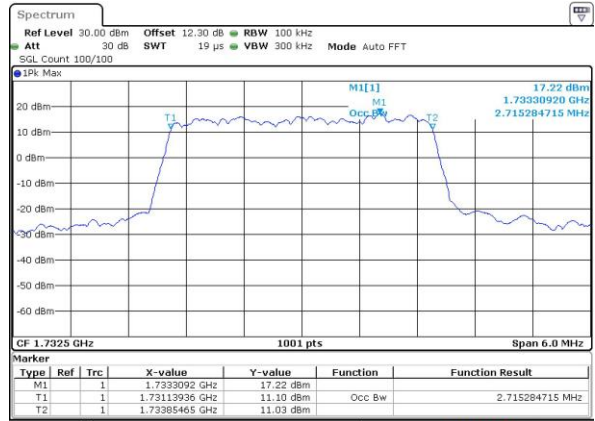
Date: 20_JUL 2018 01:40:59

Middle Channel / 3MHz / QPSK



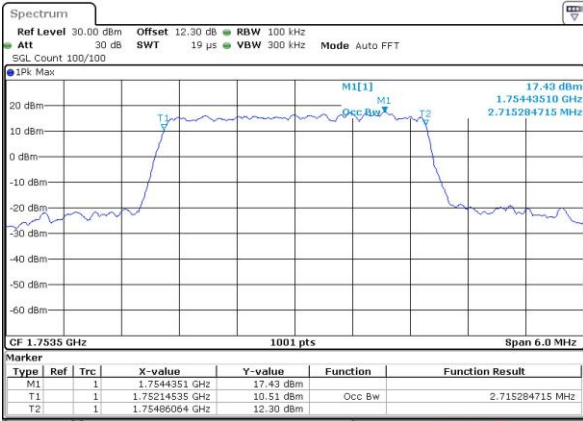
Date: 20_JUL 2018 01:48:14

Middle Channel / 3MHz / 16QAM



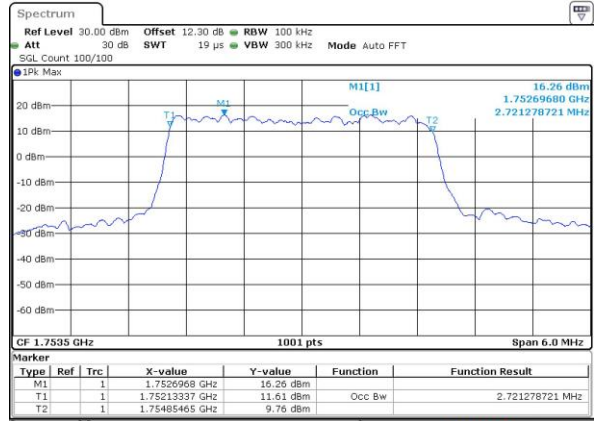
Date: 20_JUL 2018 01:48:24

Highest Channel / 3MHz / QPSK



Date: 20_JUL 2018 01:50:55

Highest Channel / 3MHz / 16QAM

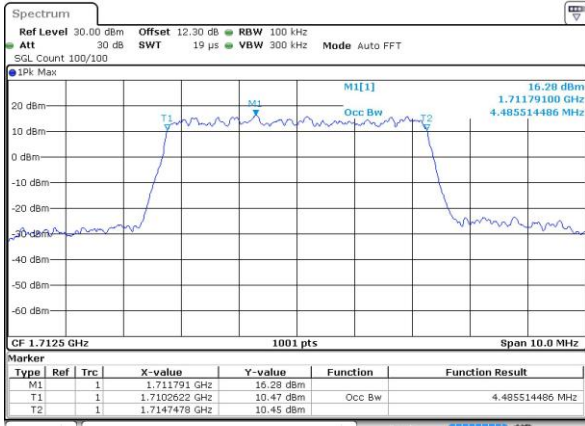


Date: 20_JUL 2018 01:51:05



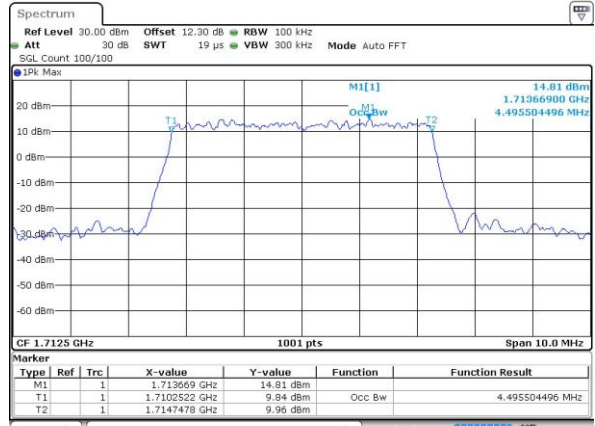
LTE Band 4

Lowest Channel / 5MHz / QPSK



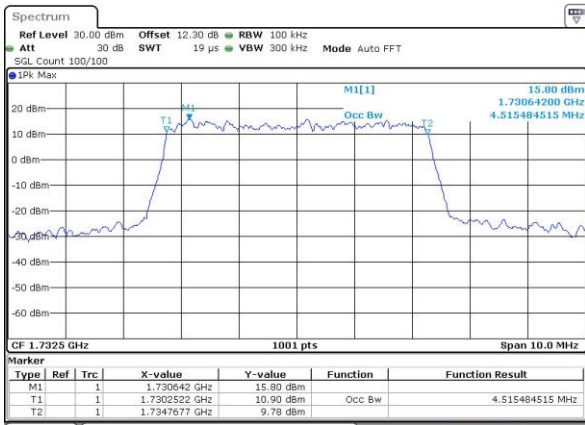
Date: 20 JUL 2018 01:58:22

Lowest Channel / 5MHz / 16QAM



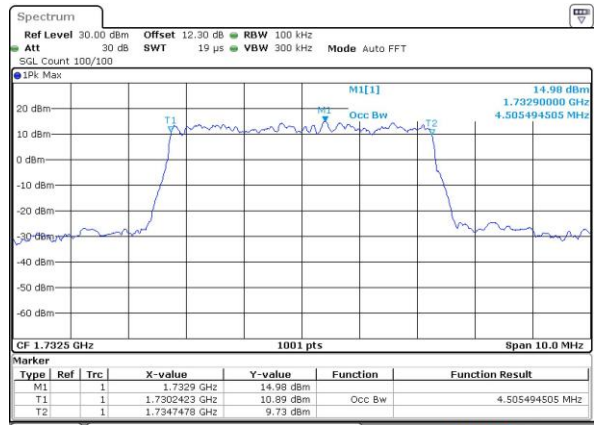
Date: 20 JUL 2018 01:58:32

Middle Channel / 5MHz / QPSK



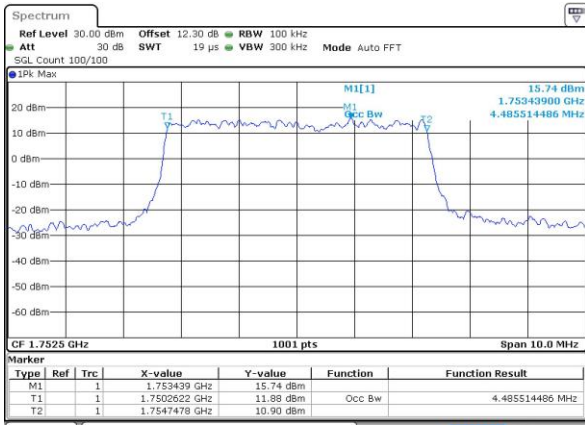
Date: 20 JUL 2018 02:05:46

Middle Channel / 5MHz / 16QAM



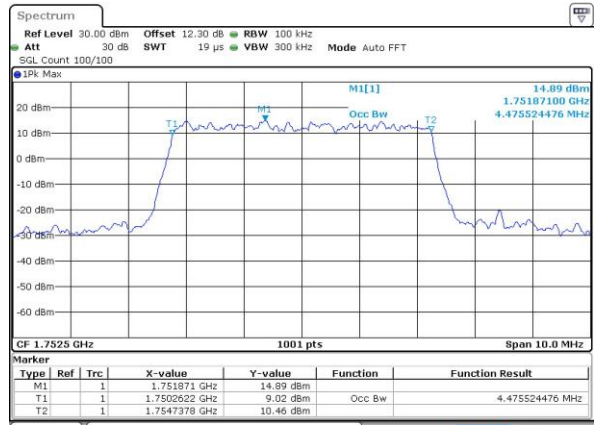
Date: 20 JUL 2018 02:05:56

Highest Channel / 5MHz / QPSK



Date: 20 JUL 2018 02:08:27

Highest Channel / 5MHz / 16QAM

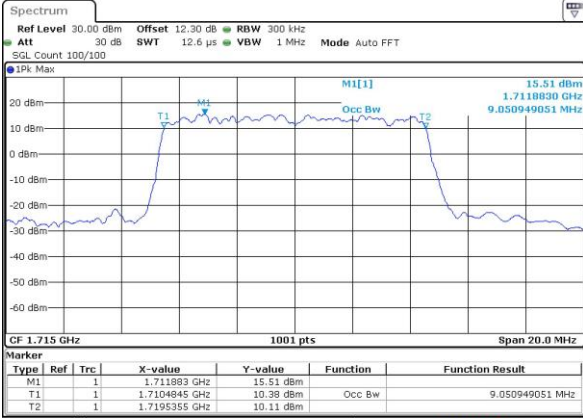


Date: 20 JUL 2018 02:08:37



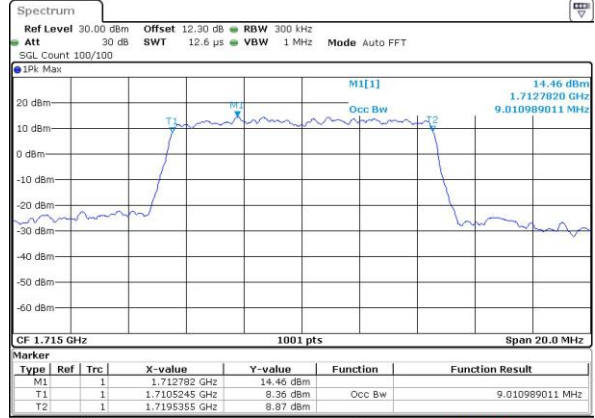
LTE Band 4

Lowest Channel / 10MHz / QPSK



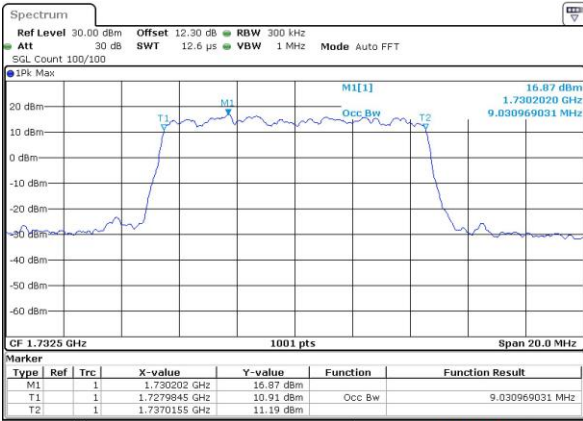
Date: 20 JUL 2018 02:15:52

Lowest Channel / 10MHz / 16QAM



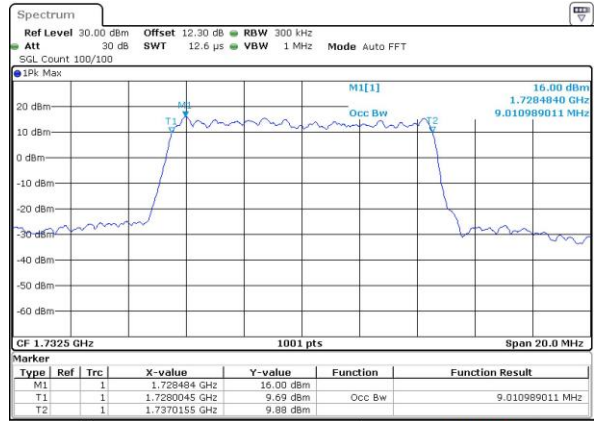
Date: 20 JUL 2018 02:16:02

Middle Channel / 10MHz / QPSK



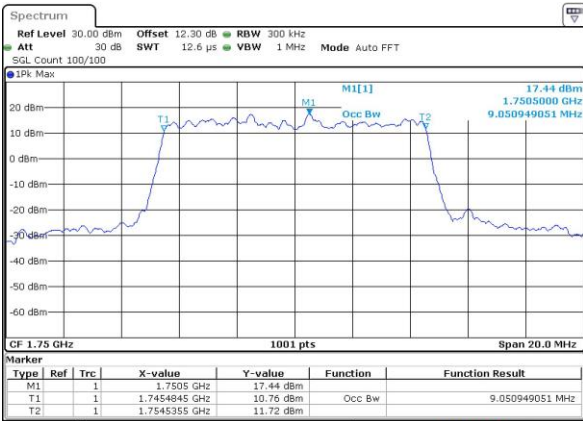
Date: 20 JUL 2018 02:23:15

Middle Channel / 10MHz / 16QAM



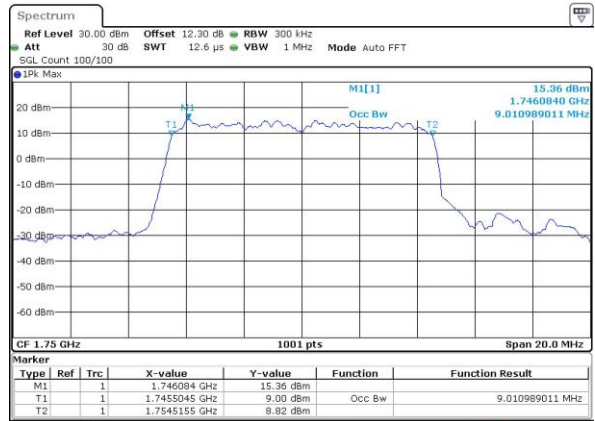
Date: 20 JUL 2018 02:23:25

Highest Channel / 10MHz / QPSK



Date: 20 JUL 2018 02:25:54

Highest Channel / 10MHz / 16QAM

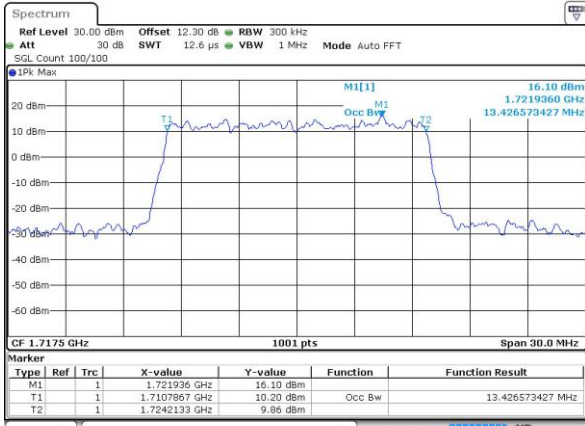


Date: 20 JUL 2018 02:26:05



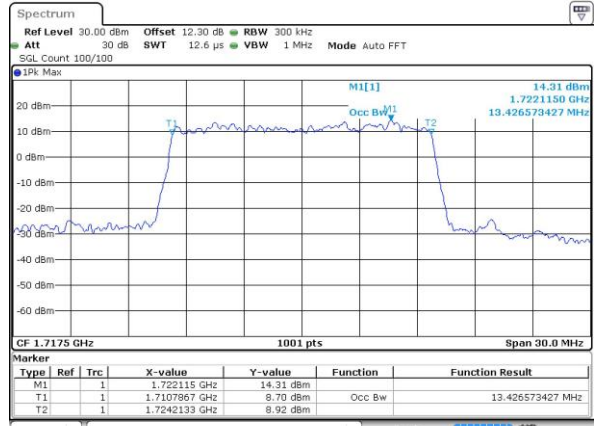
LTE Band 4

Lowest Channel / 15MHz / QPSK



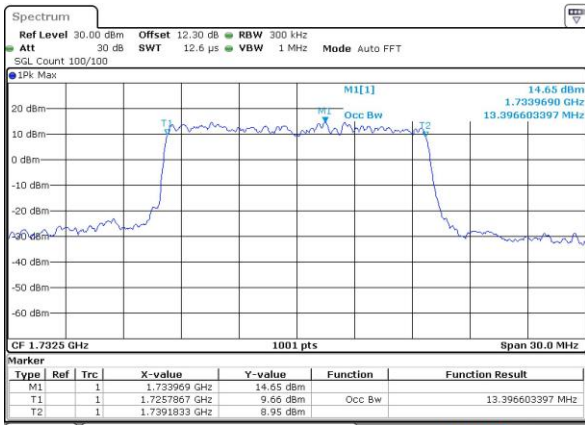
Date: 20 JUL 2018 02:33:19

Lowest Channel / 15MHz / 16QAM



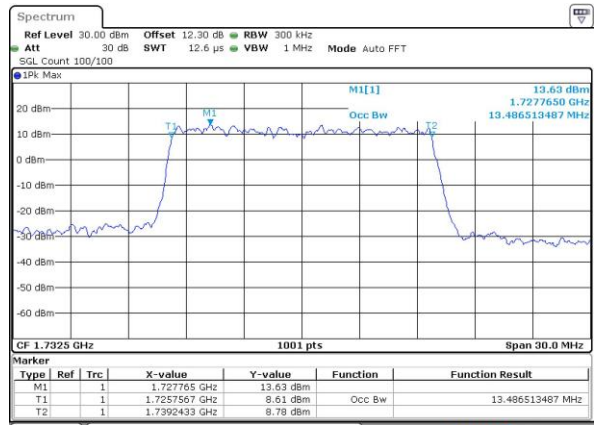
Date: 20 JUL 2018 02:33:29

Middle Channel / 15MHz / QPSK



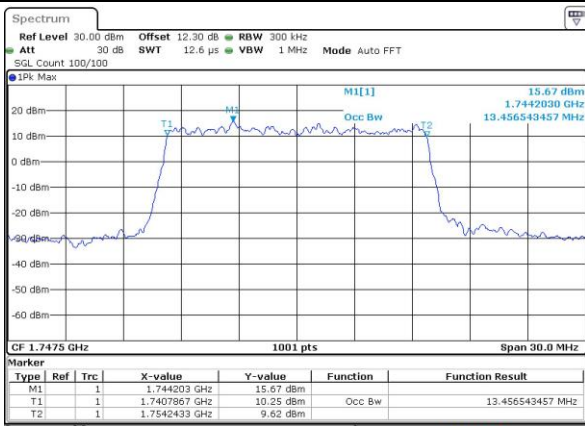
Date: 20 JUL 2018 02:40:45

Middle Channel / 15MHz / 16QAM



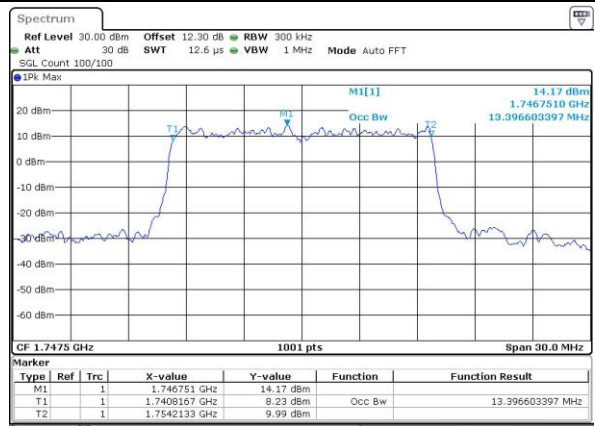
Date: 20 JUL 2018 02:40:56

Highest Channel / 15MHz / QPSK



Date: 20 JUL 2018 02:43:25

Highest Channel / 15MHz / 16QAM

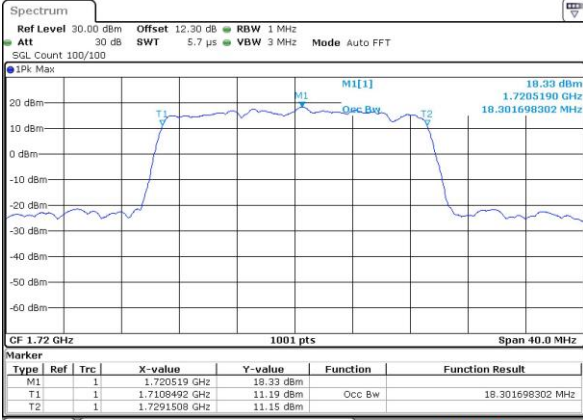


Date: 20 JUL 2018 02:43:36



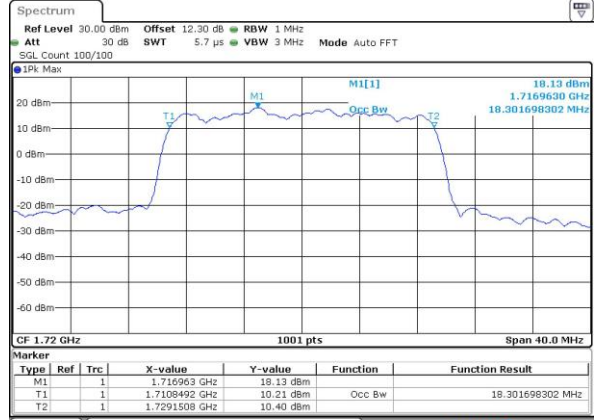
LTE Band 4

Lowest Channel / 20MHz / QPSK



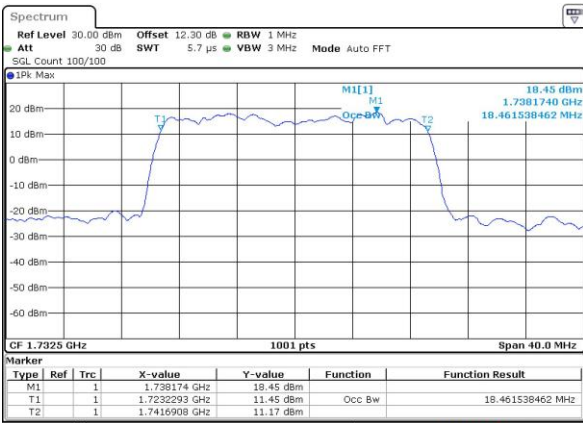
Date: 20 JUL 2018 02:50:52

Lowest Channel / 20MHz / 16QAM



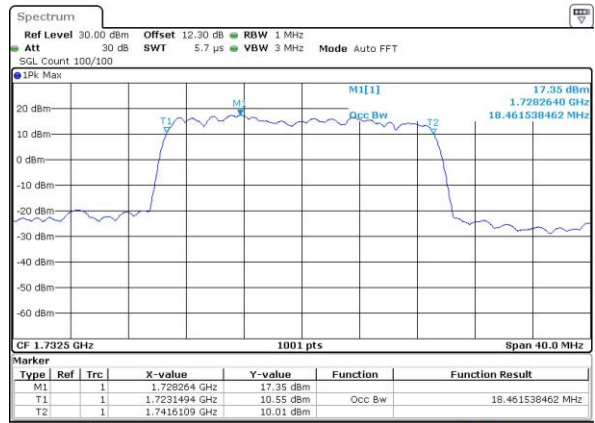
Date: 20 JUL 2018 02:51:02

Middle Channel / 20MHz / QPSK



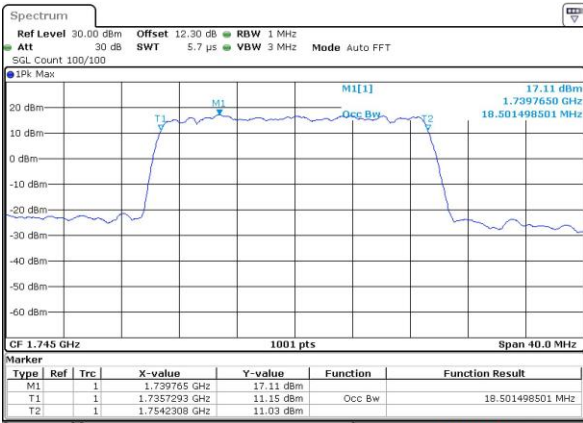
Date: 20 JUL 2018 02:58:17

Middle Channel / 20MHz / 16QAM



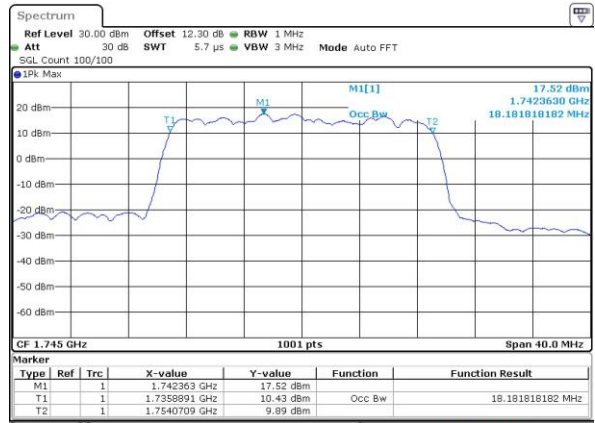
Date: 20 JUL 2018 02:58:27

Highest Channel / 20MHz / QPSK



Date: 20 JUL 2018 03:00:58

Highest Channel / 20MHz / 16QAM



Date: 20 JUL 2018 03:01:08

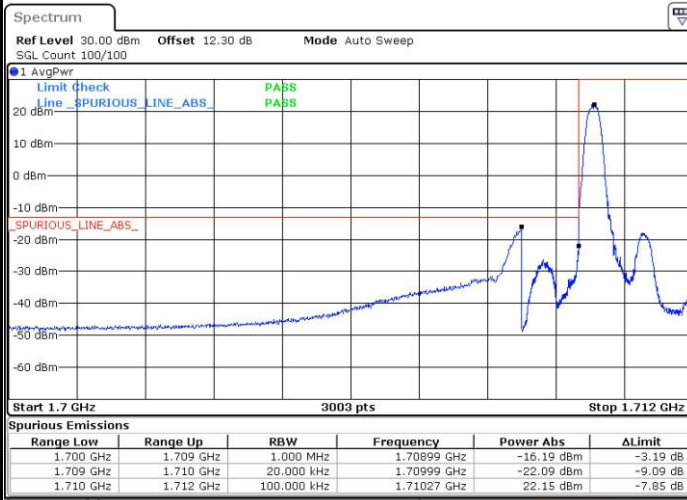


Conducted Band Edge



LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



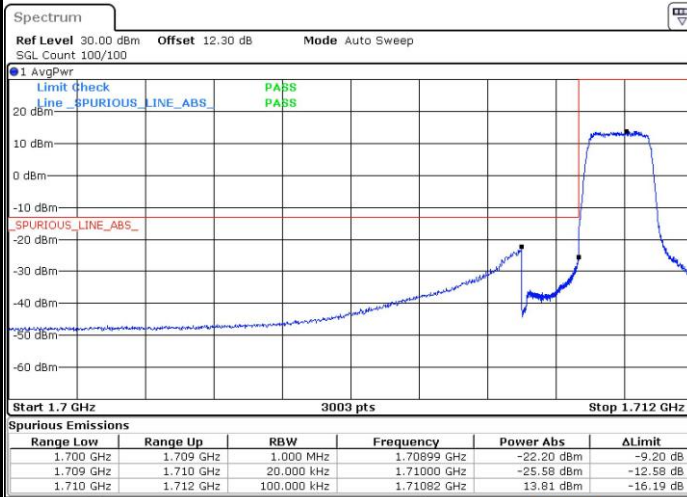
Date: 20 JUL 2018 05:46:27

Highest Band Edge / 1RB



Date: 20 JUL 2018 03:20:11

Lowest Band Edge / Full RB



Date: 20 JUL 2018 03:12:28

Highest Band Edge / Full RB



Date: 20 JUL 2018 03:22:35