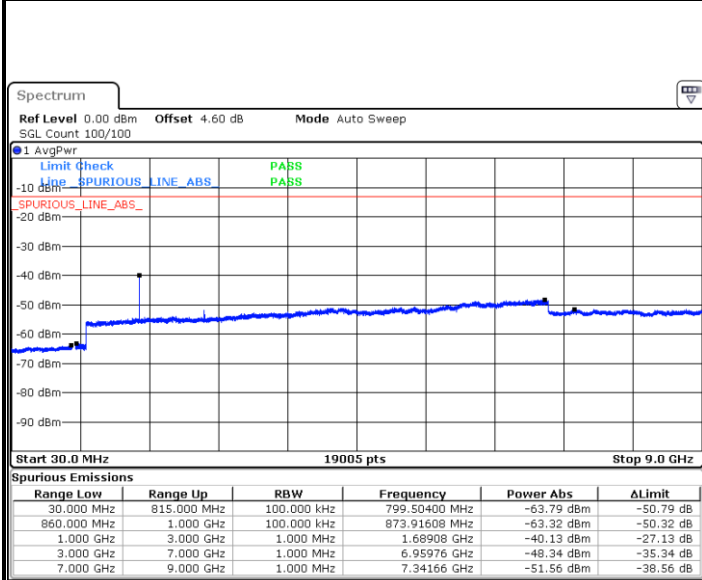




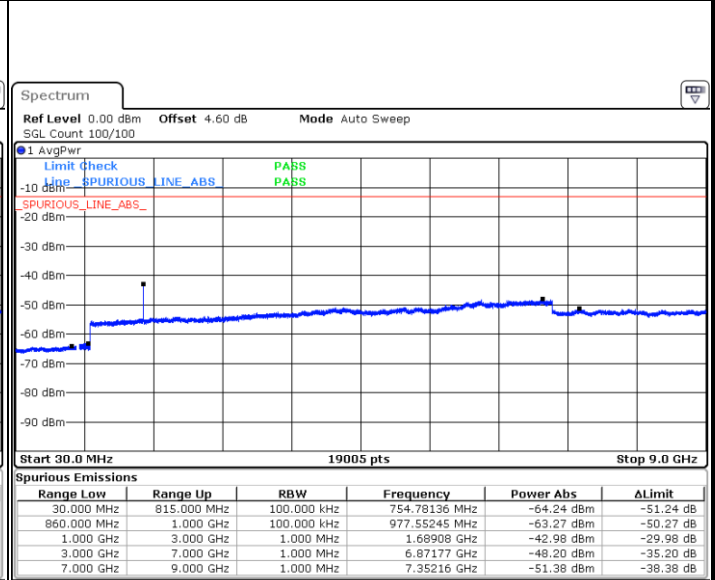
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 19.OCT.2019 16:00:47

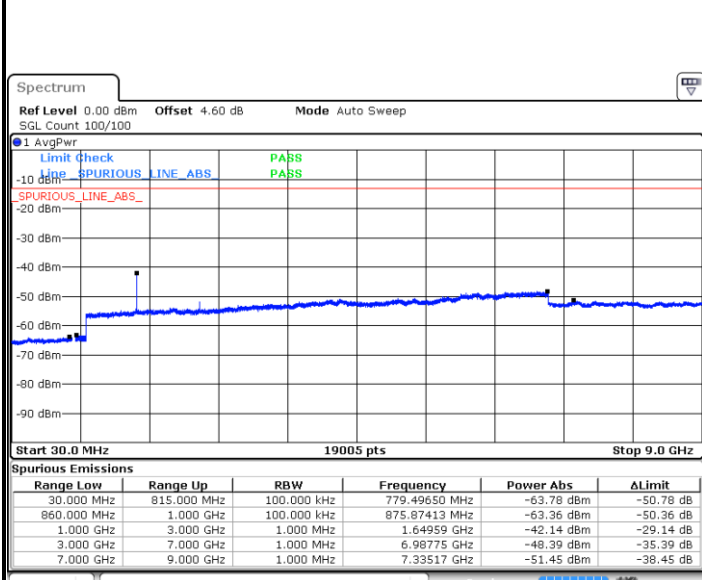
Highest Channel / 16QAM



Date: 19.OCT.2019 16:01:42

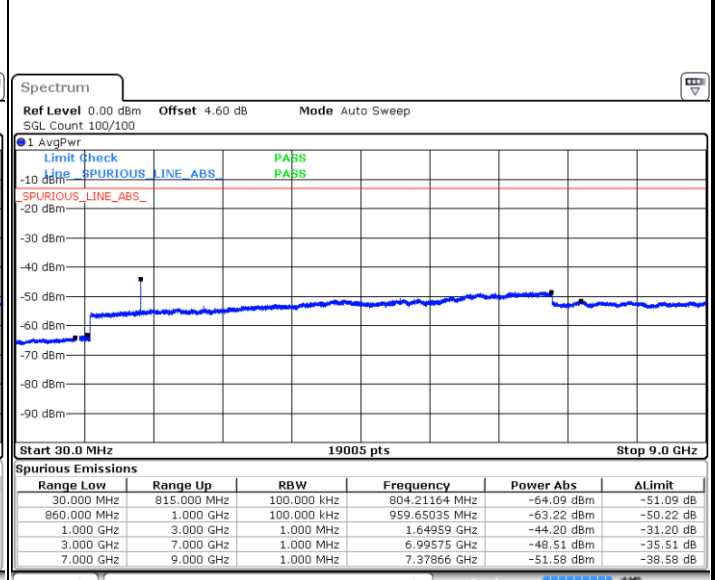
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 19.OCT.2019 16:09:47

Lowest Channel / 16QAM

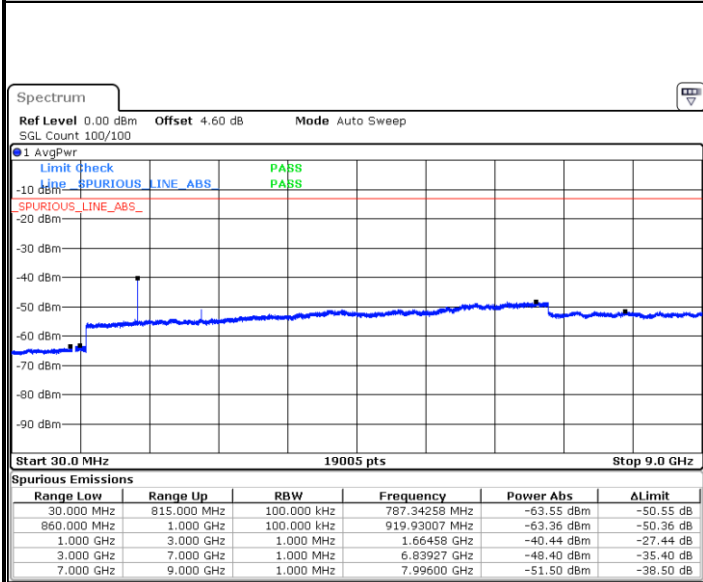


Date: 19.OCT.2019 16:10:42



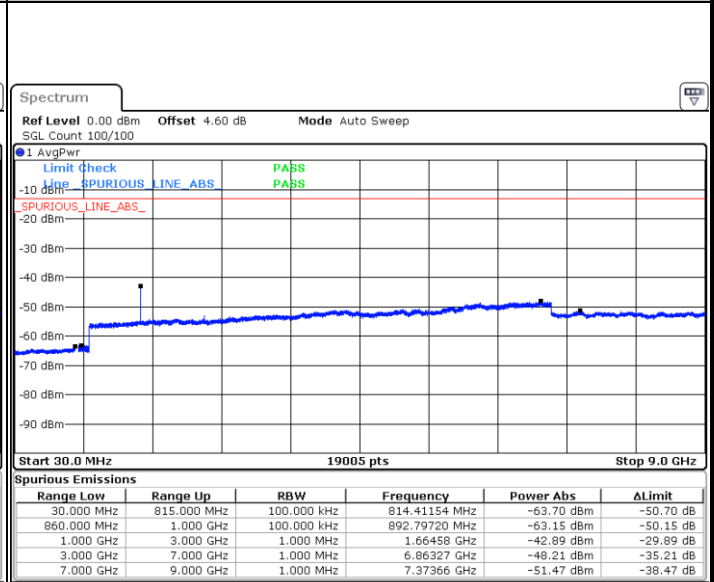
LTE Band 5 / 10MHz

Middle Channel / QPSK



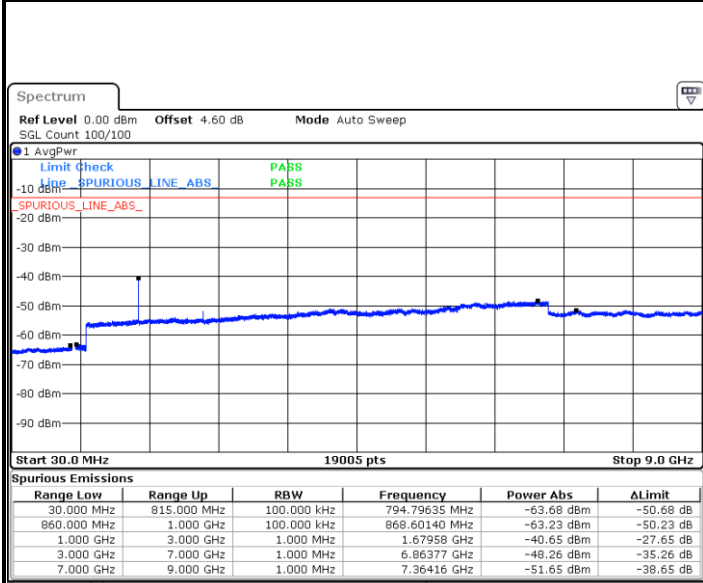
Date: 19.OCT.2019 16:12:16

Middle Channel / 16QAM



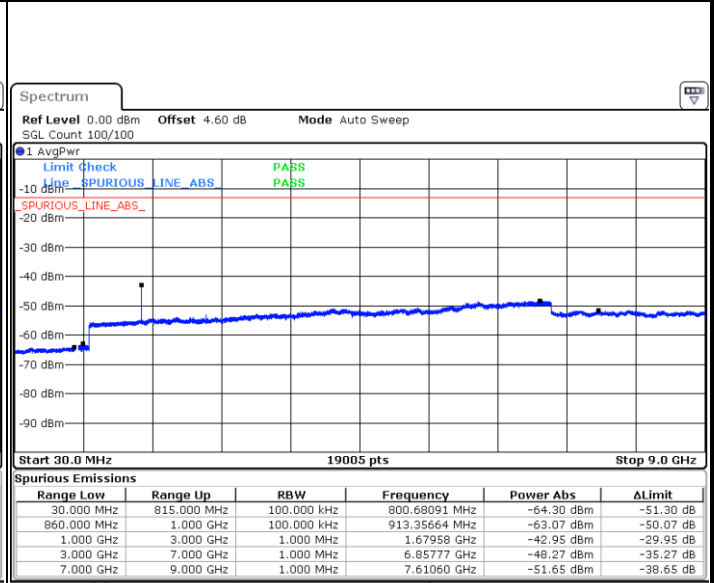
Date: 19.OCT.2019 16:13:11

Highest Channel / QPSK



Date: 19.OCT.2019 16:21:16

Highest Channel / 16QAM



Date: 19.OCT.2019 16:23:55



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	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.



## LTE Band 7

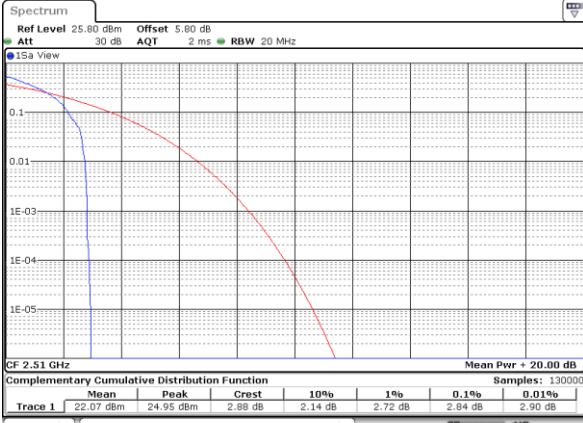
### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	2.84	4.23	4.12	5.30	PASS
Middle CH	3.54	4.84	4.32	5.91	
Highest CH	3.16	4.67	4.17	5.68	



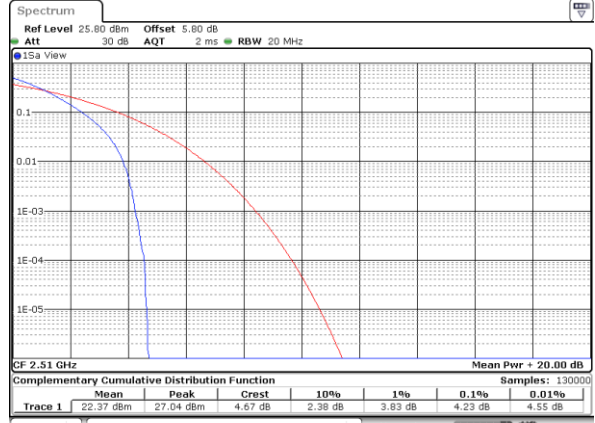
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



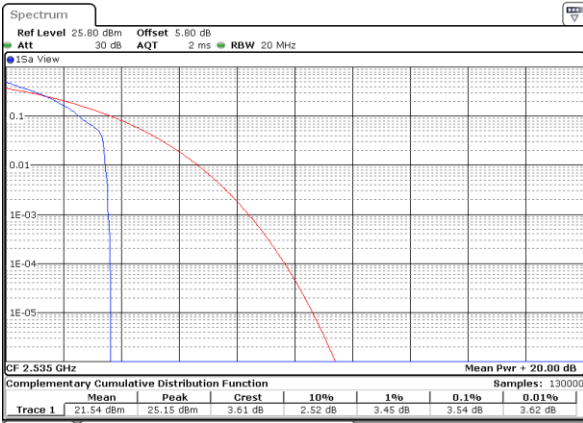
Date: 19.OCT.2019 19:49:57

Lowest Channel / Full RB



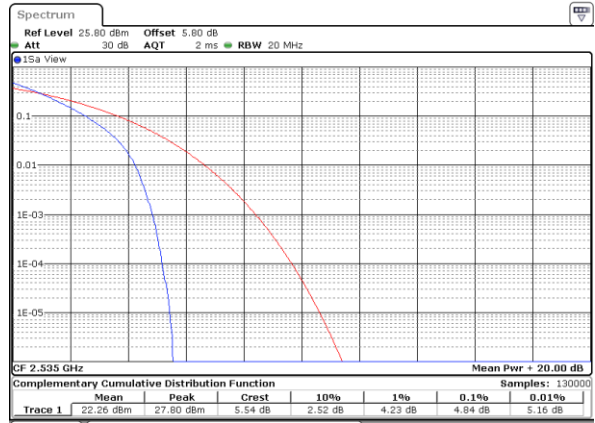
Date: 19.OCT.2019 19:50:07

Middle Channel / 1RB



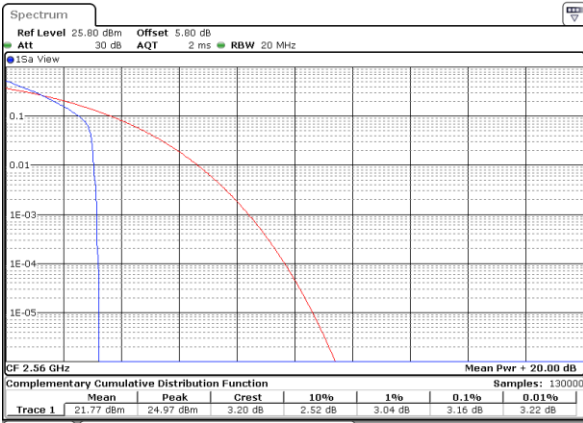
Date: 19.OCT.2019 19:50:47

Middle Channel / Full RB



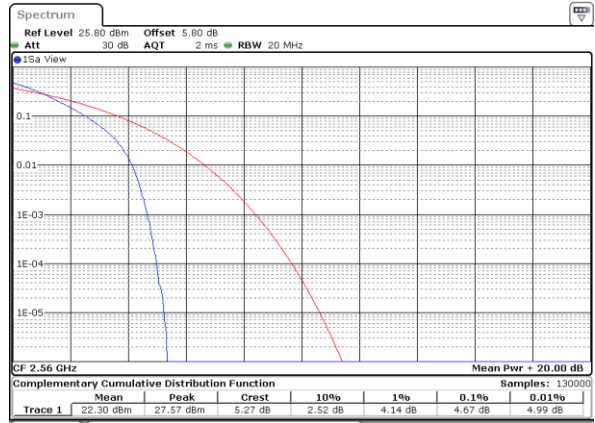
Date: 19.OCT.2019 19:50:37

Highest Channel / 1RB



Date: 19.OCT.2019 19:51:17

Highest Channel / Full RB

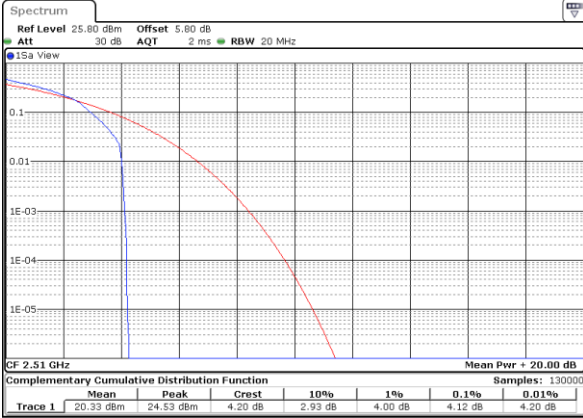


Date: 19.OCT.2019 19:51:26



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



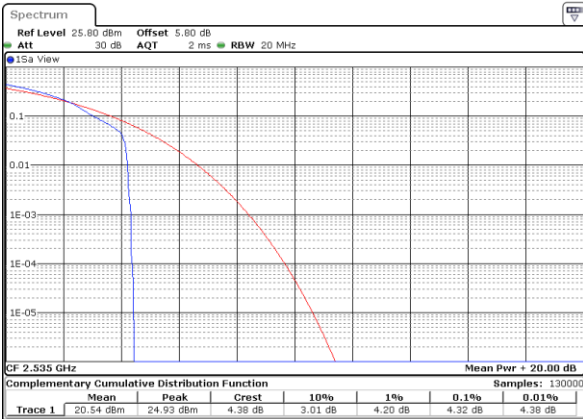
Date: 19.OCT.2019 19:49:48

Lowest Channel / Full RB



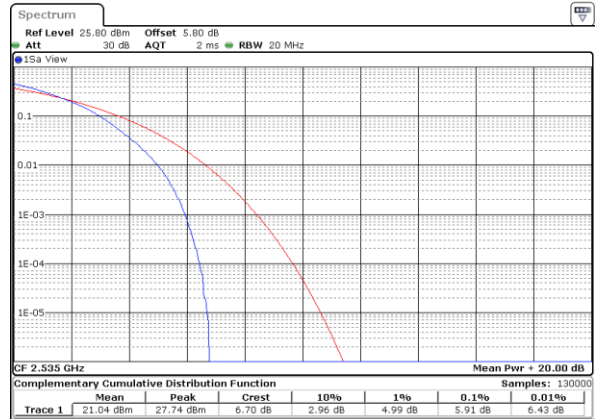
Date: 19.OCT.2019 19:50:17

Middle Channel / 1RB



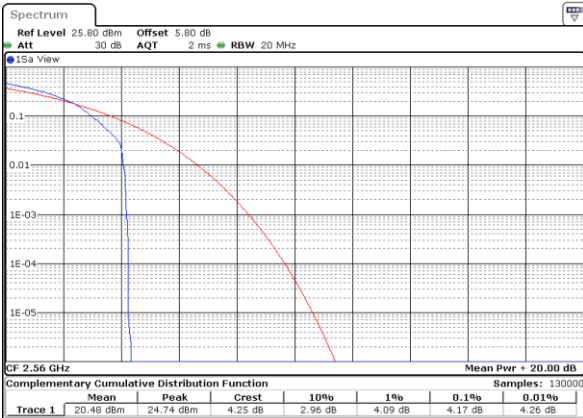
Date: 19.OCT.2019 19:50:57

Middle Channel / Full RB



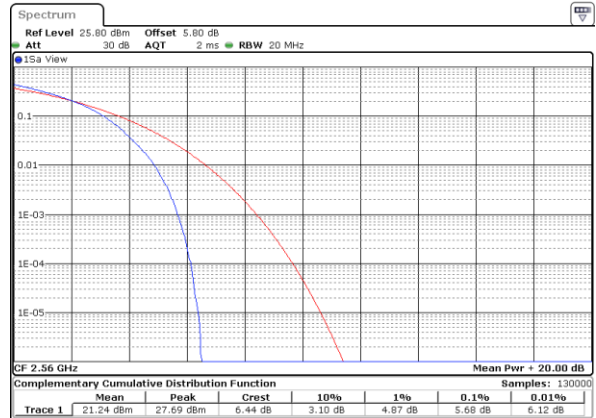
Date: 19.OCT.2019 19:50:27

Highest Channel / 1RB



Date: 19.OCT.2019 19:51:06

Highest Channel / Full RB



Date: 19.OCT.2019 19:51:35



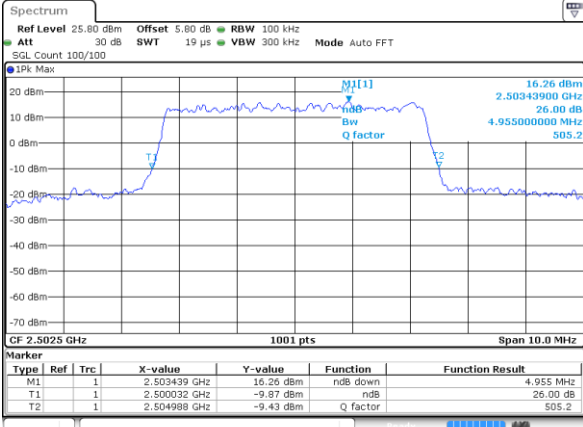
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.955	4.895	9.83	9.83	14.595	14.206	20.14	20.10
Middle CH	-	-	-	-	4.895	4.875	9.81	9.77	14.146	14.236	20.22	20.26
Highest CH	-	-	-	-	5.045	4.825	9.65	9.79	14.326	14.236	20.38	20.14



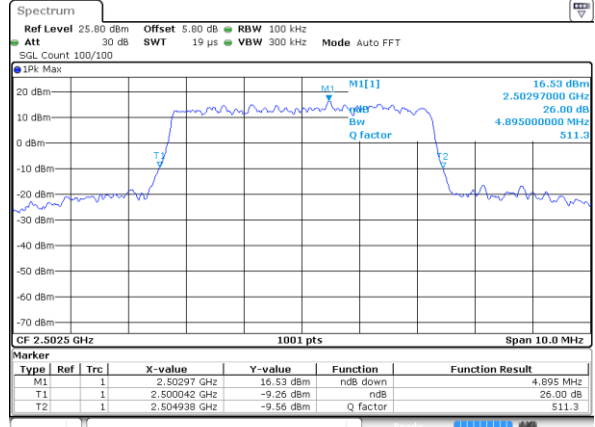
LTE Band 7

Lowest Channel / 5MHz / QPSK



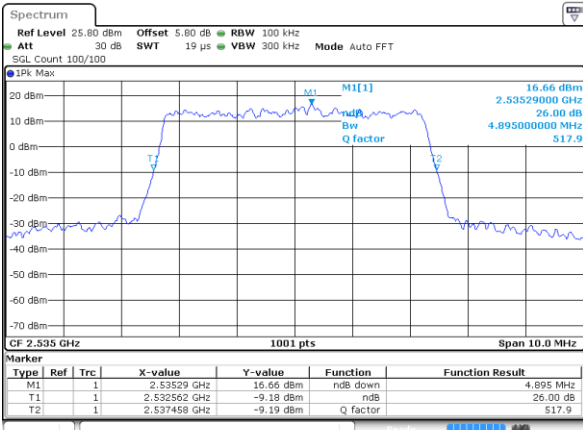
Date: 19.OCT.2019 18:43:24

Lowest Channel / 5MHz / 16QAM



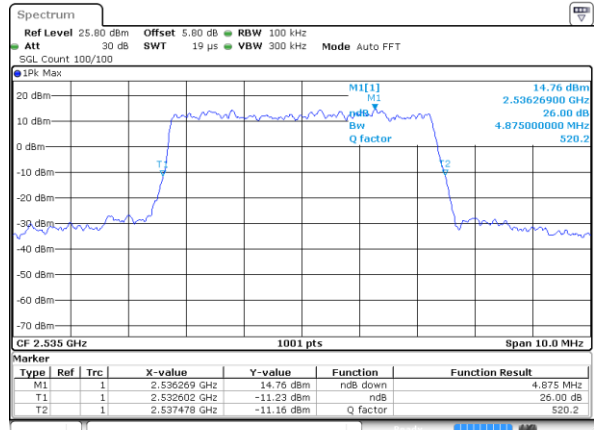
Date: 19.OCT.2019 18:43:44

Middle Channel / 5MHz / QPSK



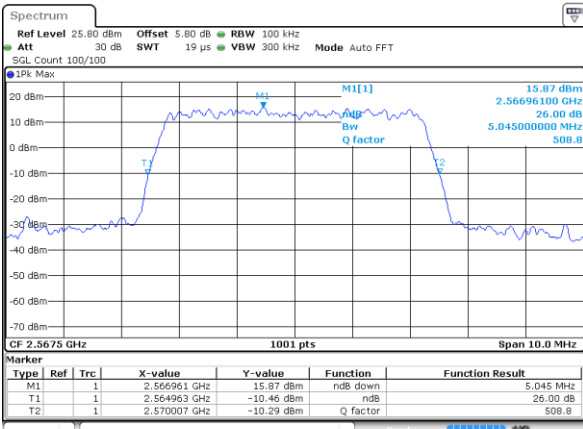
Date: 19.OCT.2019 18:44:24

Middle Channel / 5MHz / 16QAM



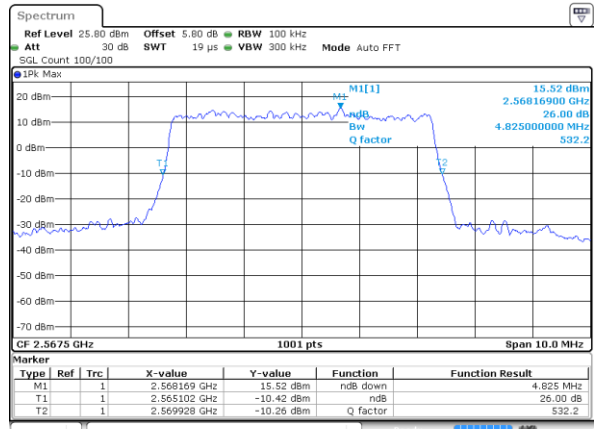
Date: 19.OCT.2019 18:44:04

Highest Channel / 5MHz / QPSK



Date: 19.OCT.2019 18:44:44

Highest Channel / 5MHz / 16QAM



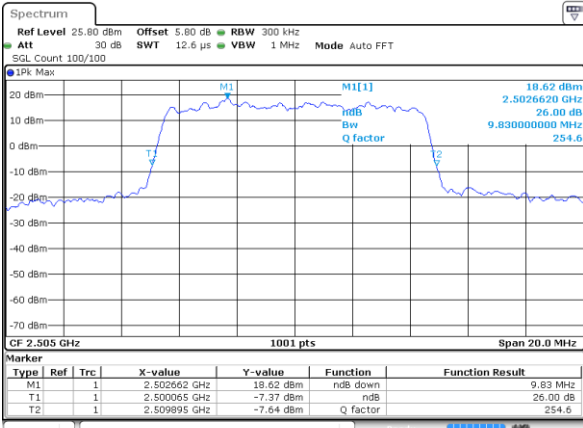
Date: 19.OCT.2019 18:45:04





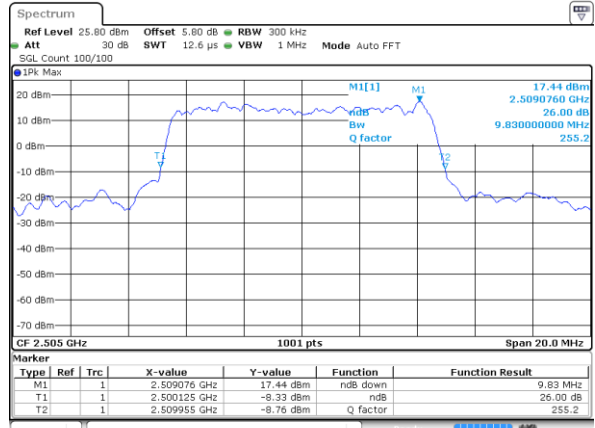
LTE Band 7

Lowest Channel / 10MHz / QPSK



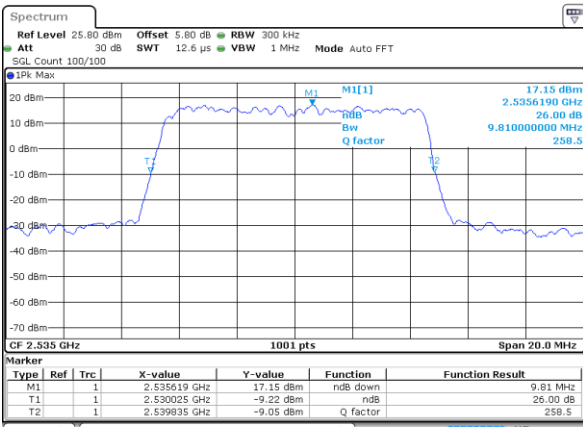
Date: 19.OCT.2019 18:59:56

Lowest Channel / 10MHz / 16QAM



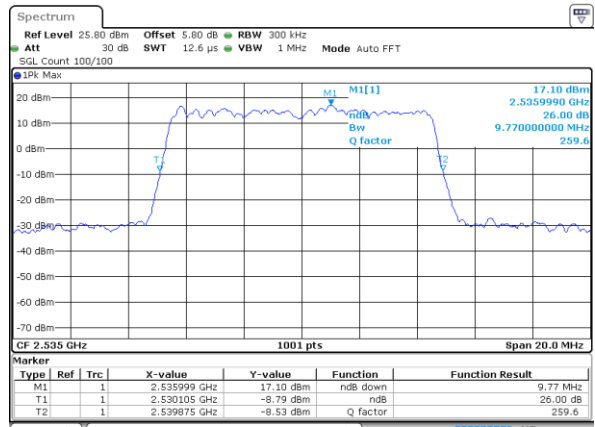
Date: 19.OCT.2019 19:00:16

Middle Channel / 10MHz / QPSK



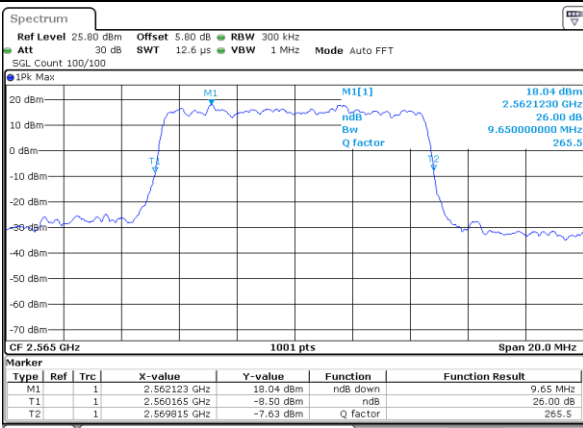
Date: 19.OCT.2019 19:00:56

Middle Channel / 10MHz / 16QAM



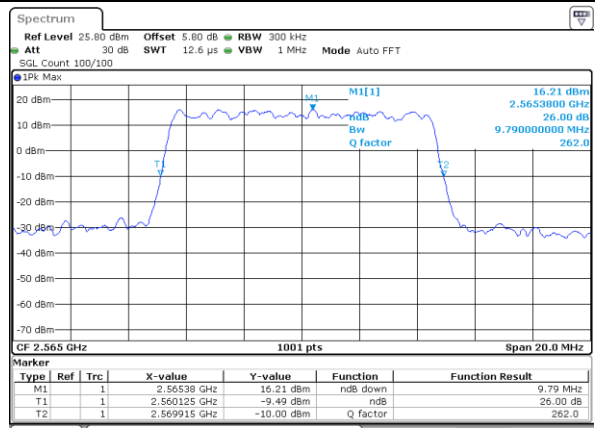
Date: 19.OCT.2019 19:00:36

Highest Channel / 10MHz / QPSK



Date: 19.OCT.2019 19:01:16

Highest Channel / 10MHz / 16QAM

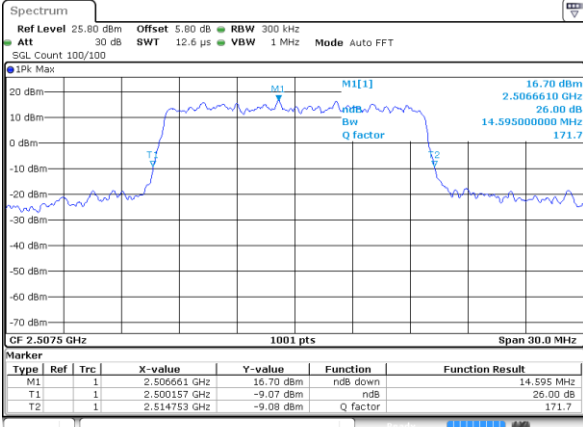


Date: 19.OCT.2019 19:01:36



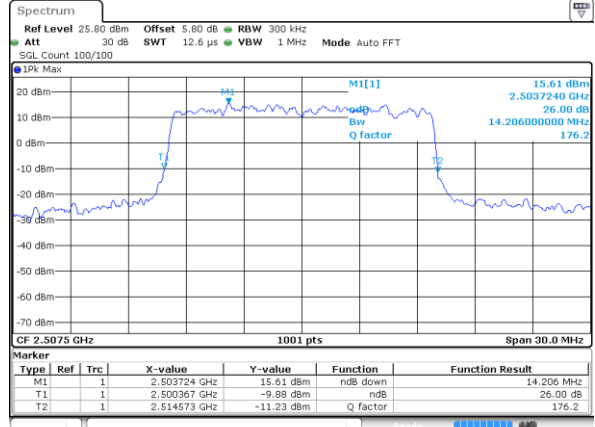
LTE Band 7

Lowest Channel / 15MHz / QPSK



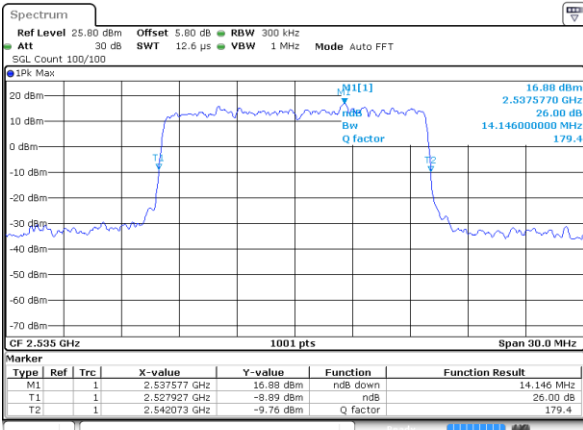
Date: 19.OCT.2019 19:16:46

Lowest Channel / 15MHz / 16QAM



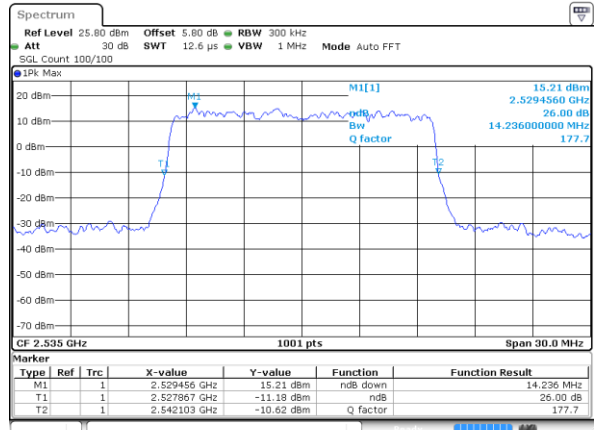
Date: 19.OCT.2019 19:16:26

Middle Channel / 15MHz / QPSK



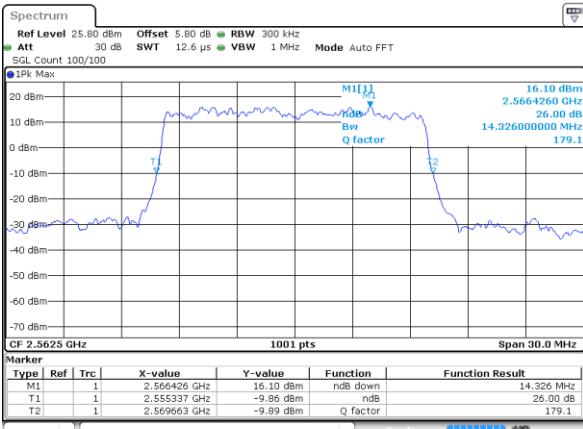
Date: 19.OCT.2019 19:17:06

Middle Channel / 15MHz / 16QAM



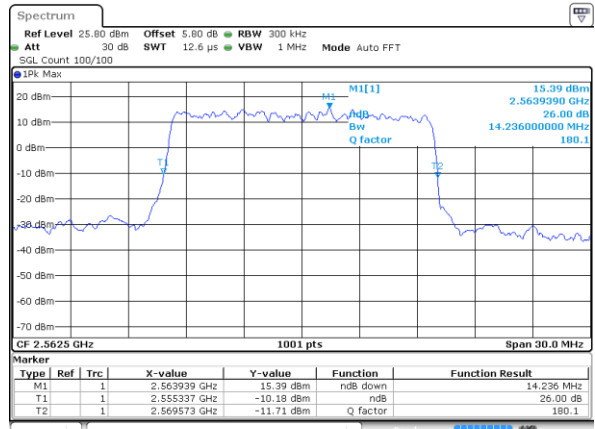
Date: 19.OCT.2019 19:17:26

Highest Channel / 15MHz / QPSK



Date: 19.OCT.2019 19:18:06

Highest Channel / 15MHz / 16QAM

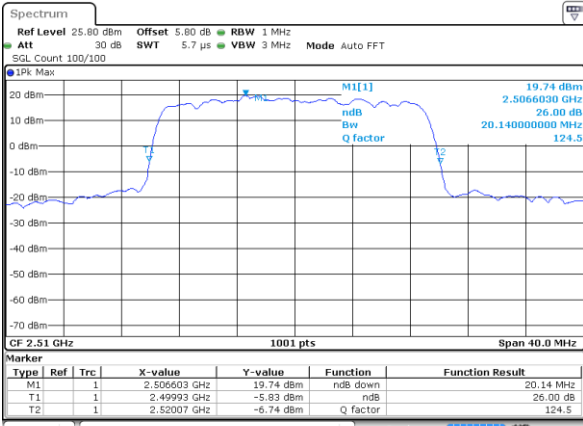


Date: 19.OCT.2019 19:17:46



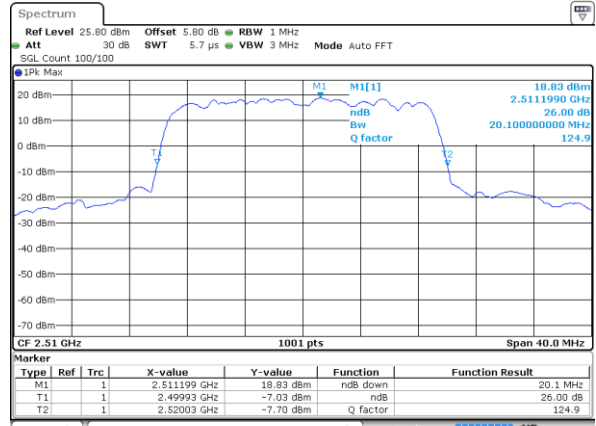
LTE Band 7

Lowest Channel / 20MHz / QPSK



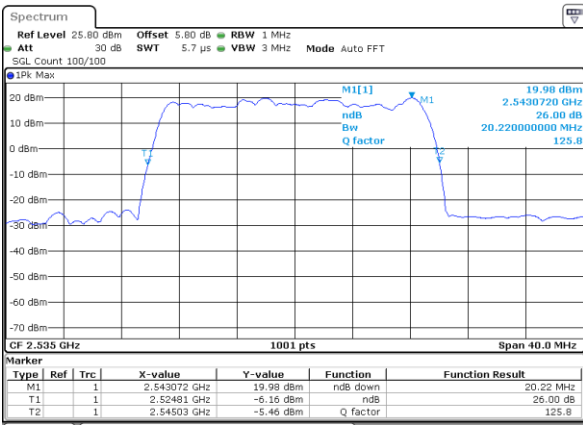
Date: 19.OCT.2019 19:33:18

Lowest Channel / 20MHz / 16QAM



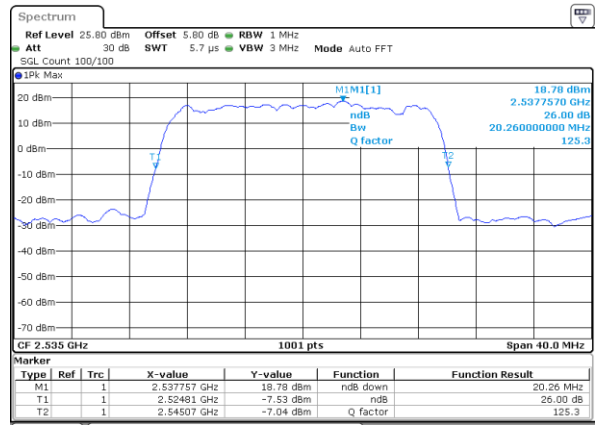
Date: 19.OCT.2019 19:32:57

Middle Channel / 20MHz / QPSK



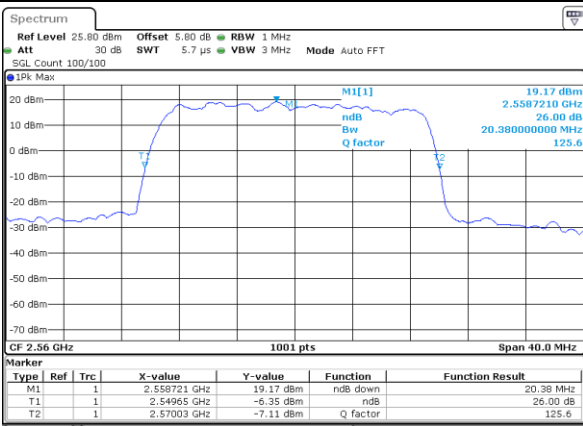
Date: 19.OCT.2019 19:33:38

Middle Channel / 20MHz / 16QAM



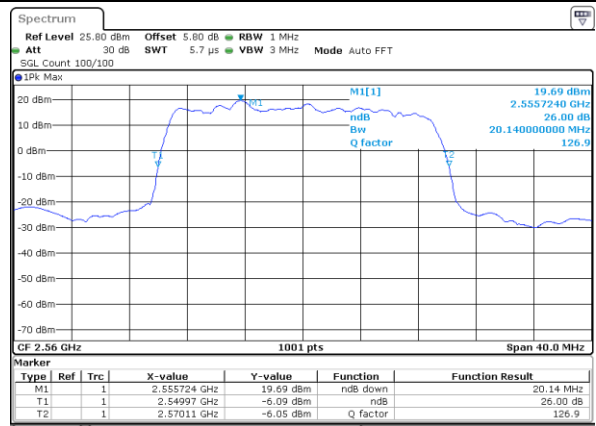
Date: 19.OCT.2019 19:33:58

Highest Channel / 20MHz / QPSK



Date: 19.OCT.2019 19:34:39

Highest Channel / 20MHz / 16QAM



Date: 19.OCT.2019 19:34:18



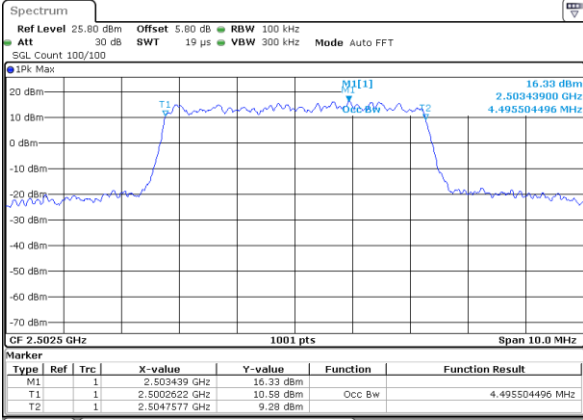
### Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.50	4.50	9.01	8.95	13.43	13.43	18.22	18.42
Middle CH	-	-	-	-	4.50	4.49	9.03	9.01	13.40	13.37	18.26	18.22
Highest CH	-	-	-	-	4.50	4.51	9.01	8.99	13.40	13.40	18.22	18.18



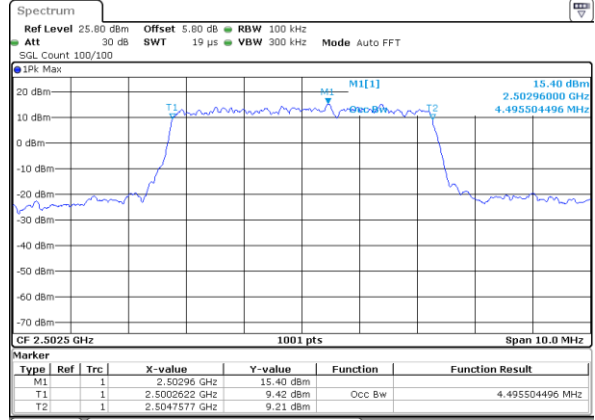
LTE Band 7

Lowest Channel / 5MHz / QPSK



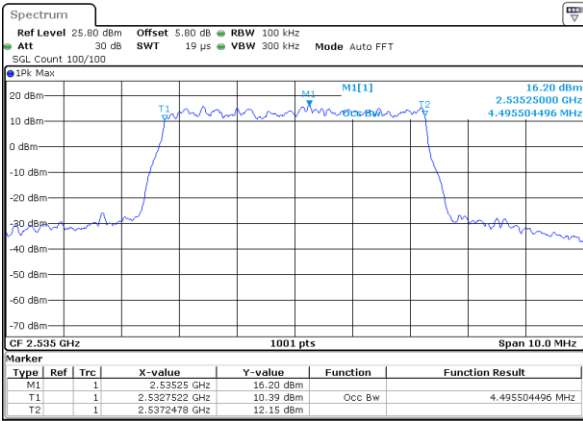
Date: 19.OCT.2019 18:43:14

Lowest Channel / 5MHz / 16QAM



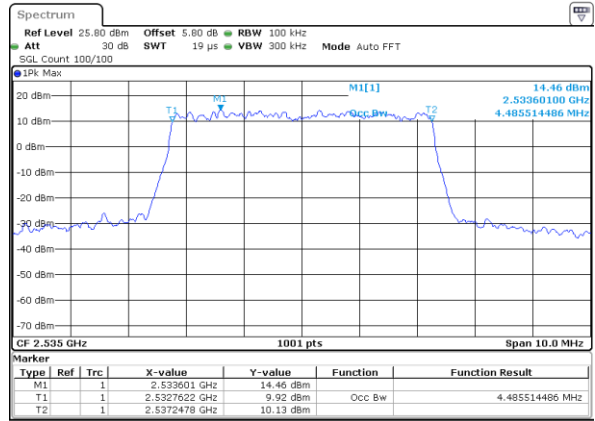
Date: 19.OCT.2019 18:43:34

Middle Channel / 5MHz / QPSK



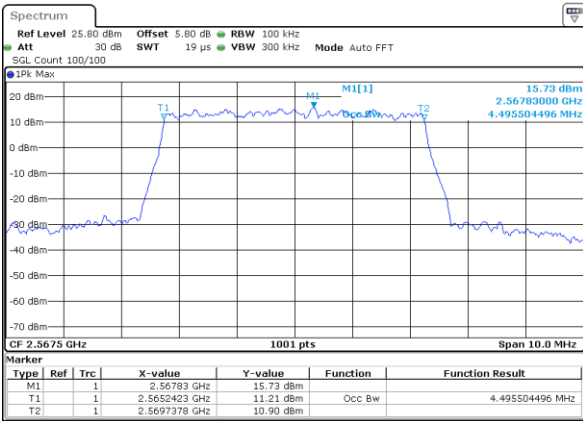
Date: 19.OCT.2019 18:44:14

Middle Channel / 5MHz / 16QAM



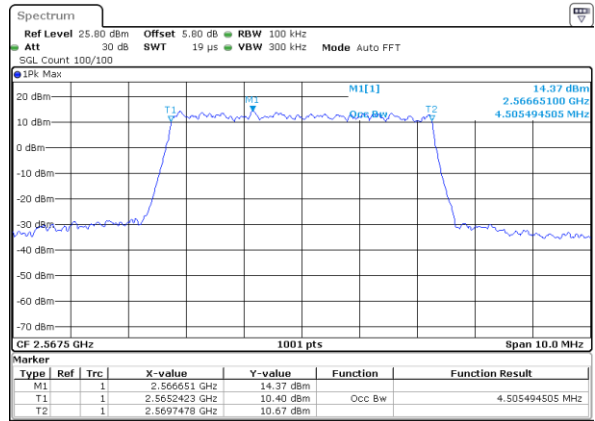
Date: 19.OCT.2019 18:44:54

Highest Channel / 5MHz / QPSK



Date: 19.OCT.2019 18:44:34

Highest Channel / 5MHz / 16QAM

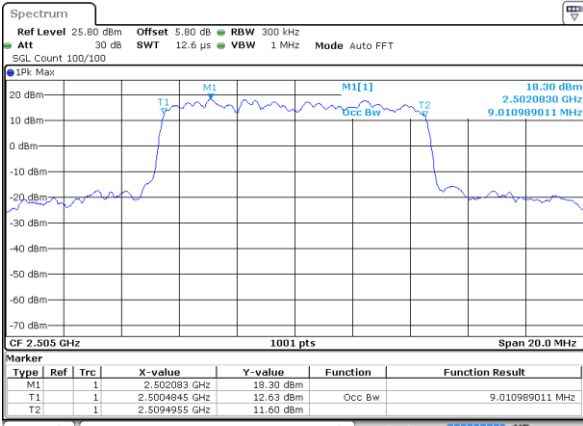


Date: 19.OCT.2019 18:44:54



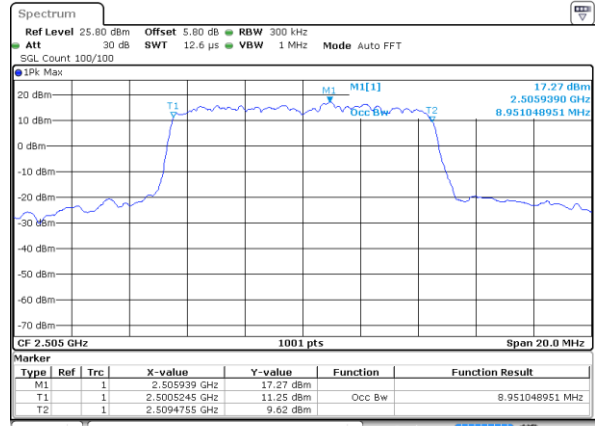
LTE Band 7

Lowest Channel / 10MHz / QPSK



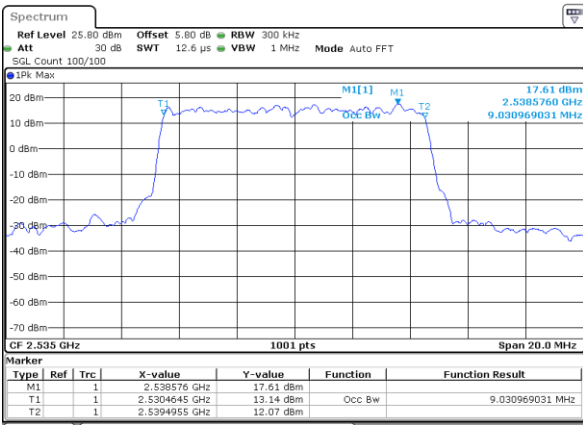
Date: 19.OCT.2019 18:59:45

Lowest Channel / 10MHz / 16QAM



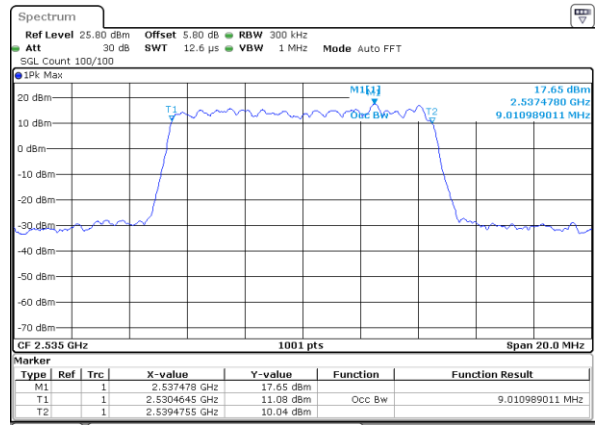
Date: 19.OCT.2019 19:00:06

Middle Channel / 10MHz / QPSK



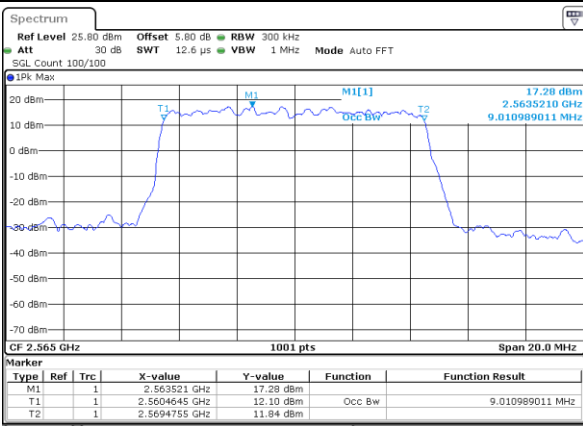
Date: 19.OCT.2019 19:00:46

Middle Channel / 10MHz / 16QAM



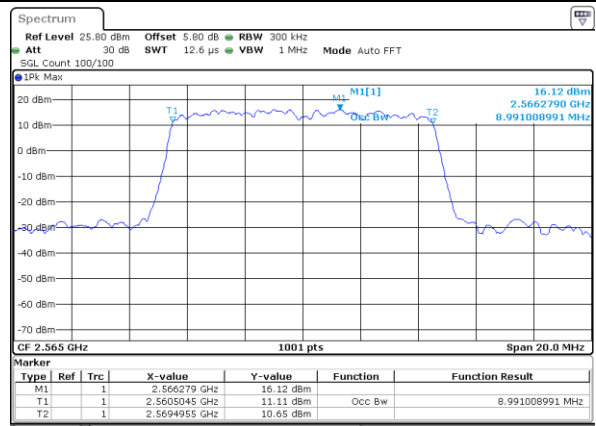
Date: 19.OCT.2019 19:00:26

Highest Channel / 10MHz / QPSK



Date: 19.OCT.2019 19:01:06

Highest Channel / 10MHz / 16QAM

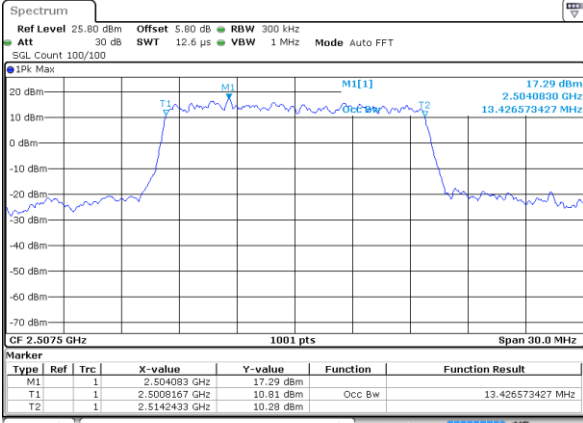


Date: 19.OCT.2019 19:01:26



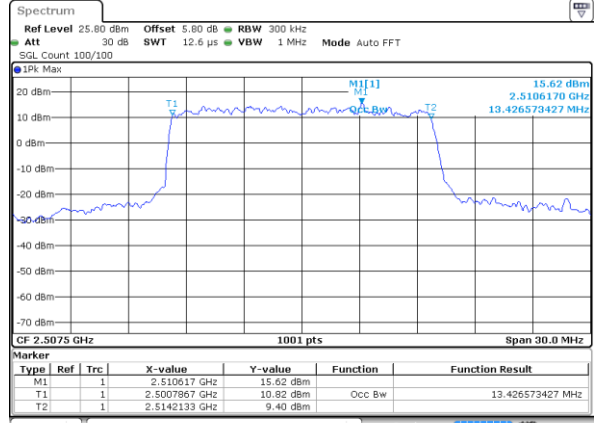
LTE Band 7

Lowest Channel / 15MHz / QPSK



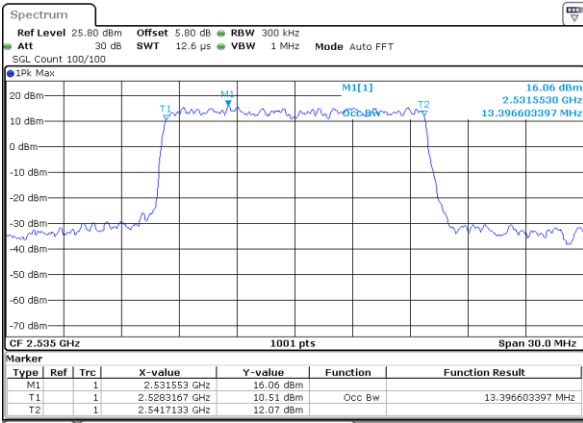
Date: 19.OCT.2019 19:16:36

Lowest Channel / 15MHz / 16QAM



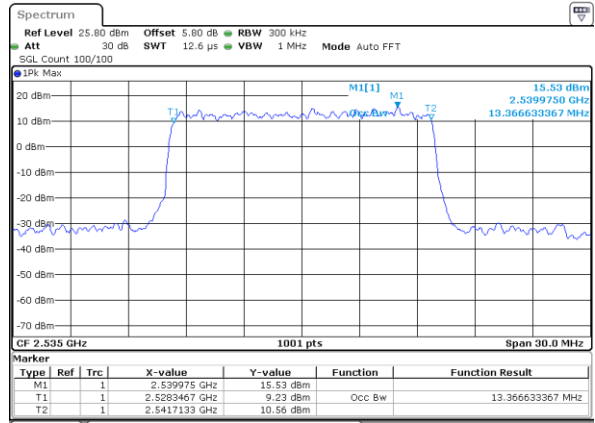
Date: 19.OCT.2019 19:16:16

Middle Channel / 15MHz / QPSK



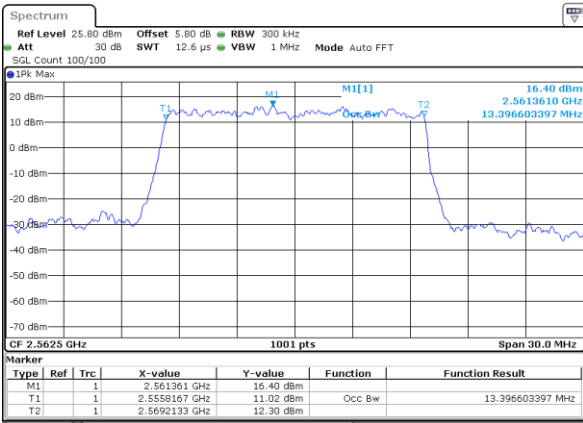
Date: 19.OCT.2019 19:16:56

Middle Channel / 15MHz / 16QAM



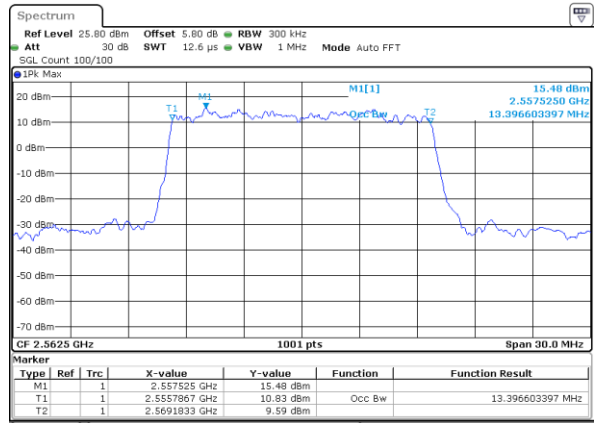
Date: 19.OCT.2019 19:17:16

Highest Channel / 15MHz / QPSK



Date: 19.OCT.2019 19:17:56

Highest Channel / 15MHz / 16QAM

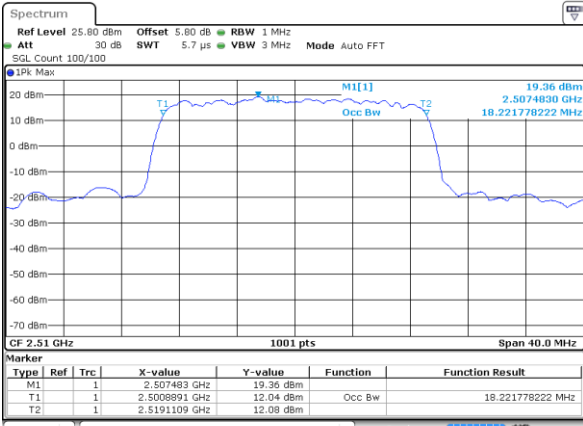


Date: 19.OCT.2019 19:17:36



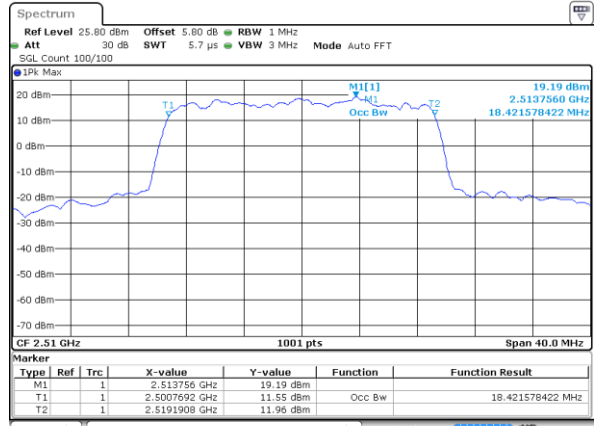
LTE Band 7

Lowest Channel / 20MHz / QPSK



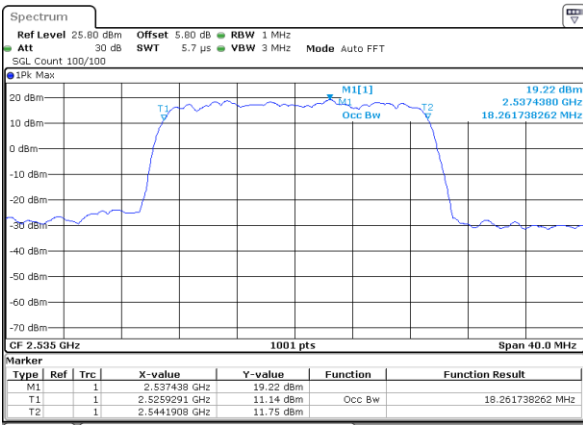
Date: 19.OCT.2019 19:33:08

Lowest Channel / 20MHz / 16QAM



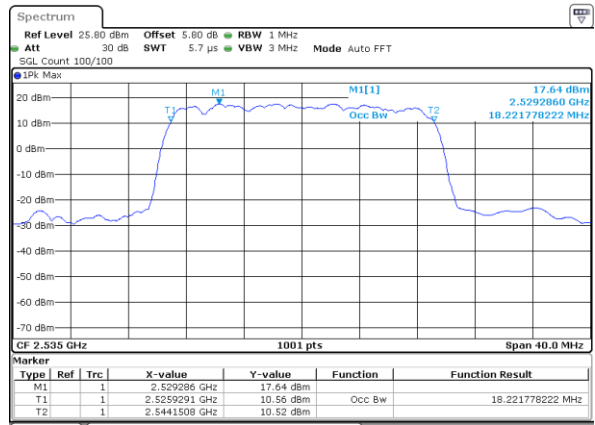
Date: 19.OCT.2019 19:32:47

Middle Channel / 20MHz / QPSK



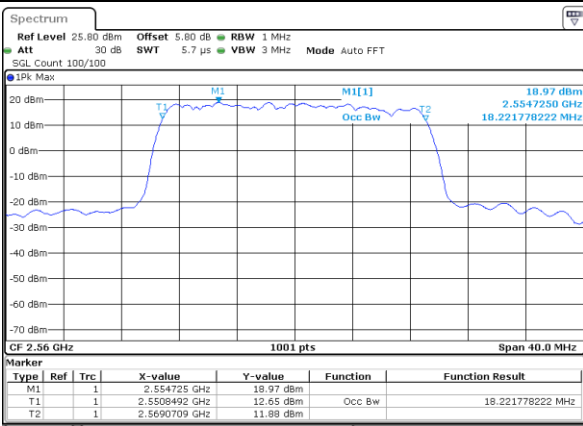
Date: 19.OCT.2019 19:33:28

Middle Channel / 20MHz / 16QAM



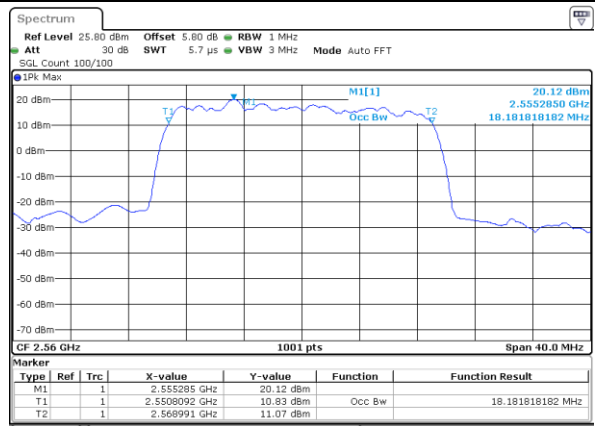
Date: 19.OCT.2019 19:33:48

Highest Channel / 20MHz / QPSK



Date: 19.OCT.2019 19:34:29

Highest Channel / 20MHz / 16QAM

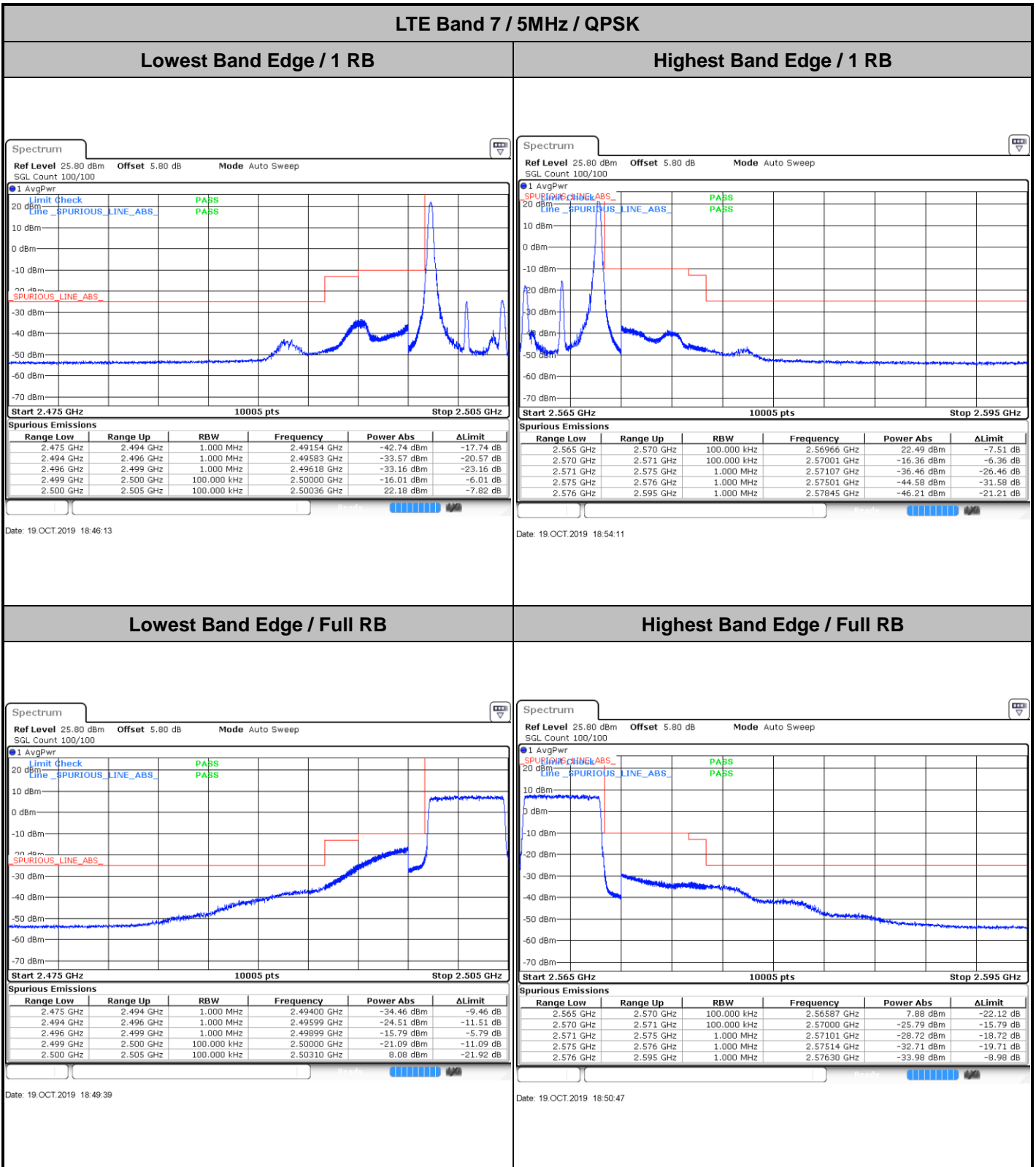


Date: 19.OCT.2019 19:34:08





# Conducted Band Edge

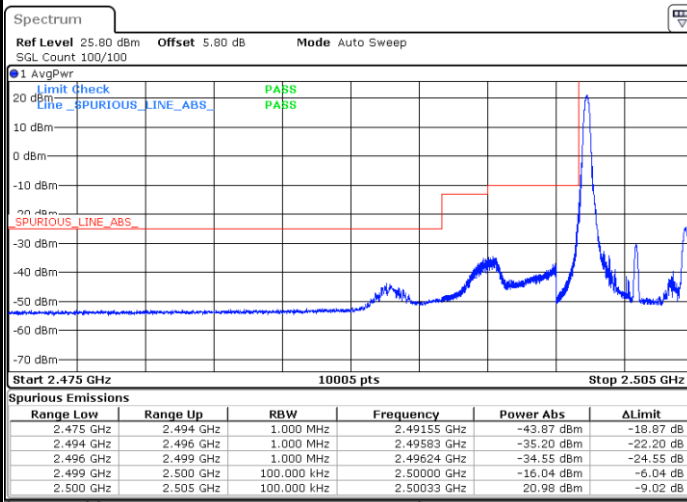




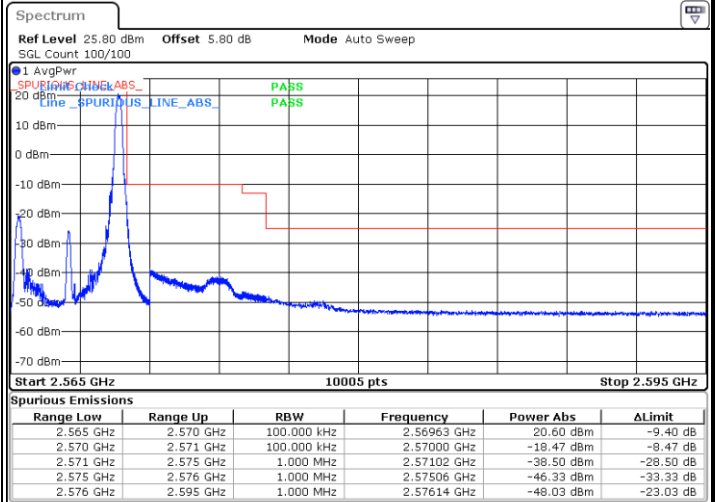
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



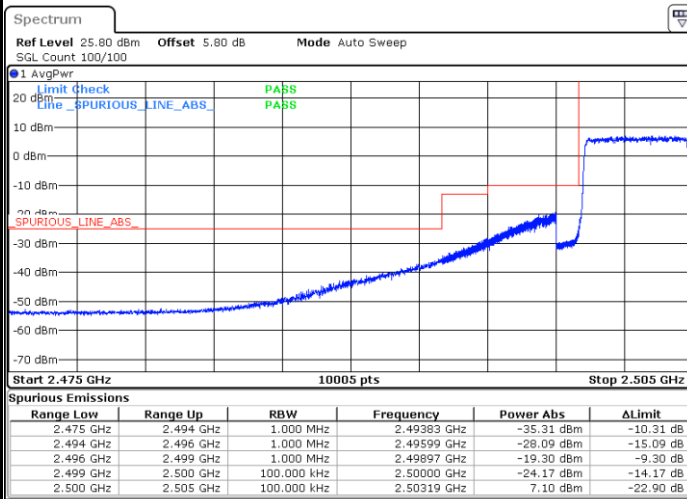
Date: 19.OCT.2019 18:47:22



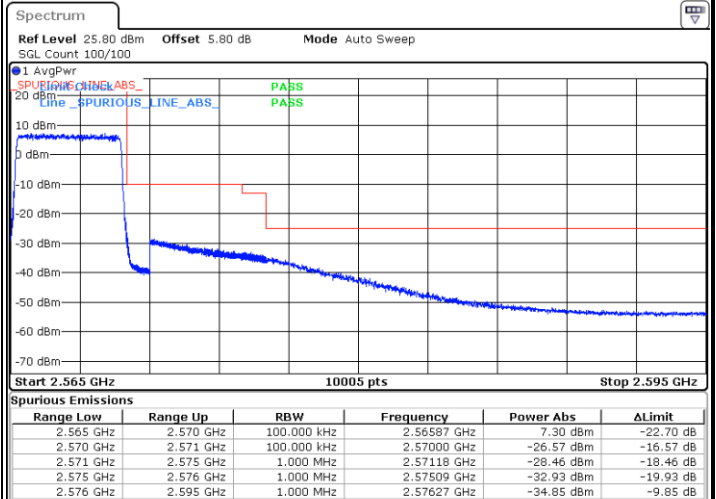
Date: 19.OCT.2019 18:53:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2019 18:48:30

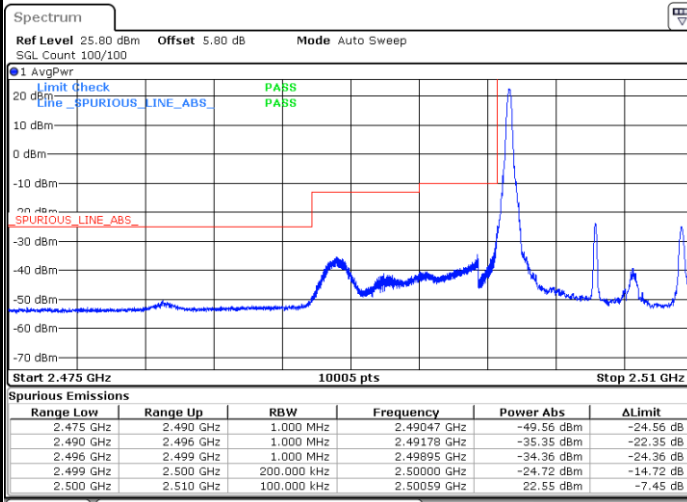


Date: 19.OCT.2019 18:51:55



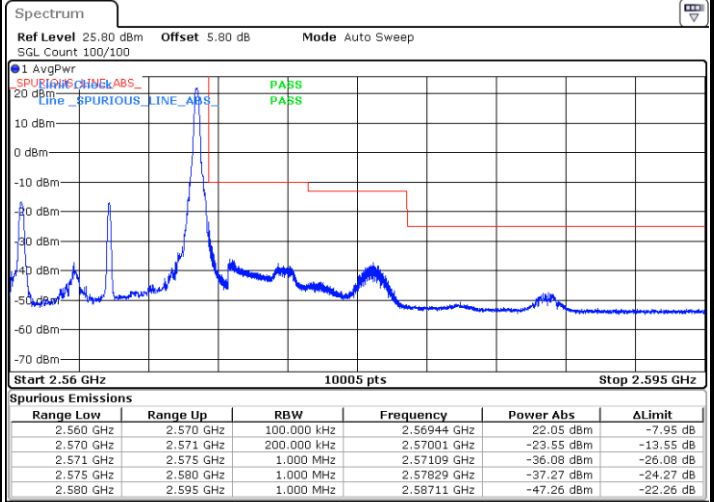
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



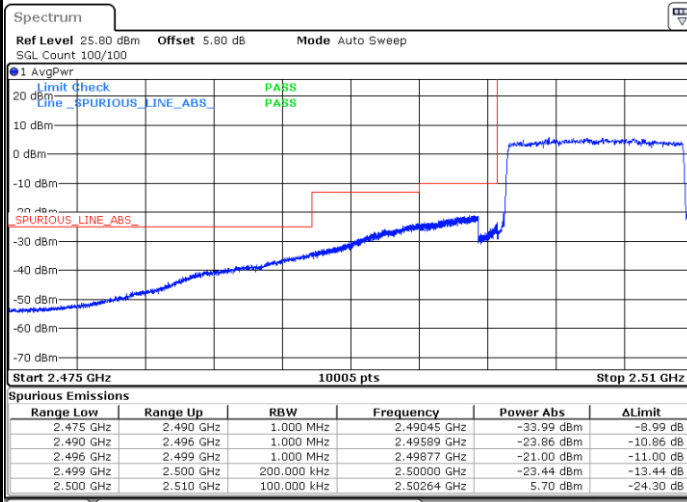
Date: 19.OCT.2019 19:02:44

Highest Band Edge / 1 RB



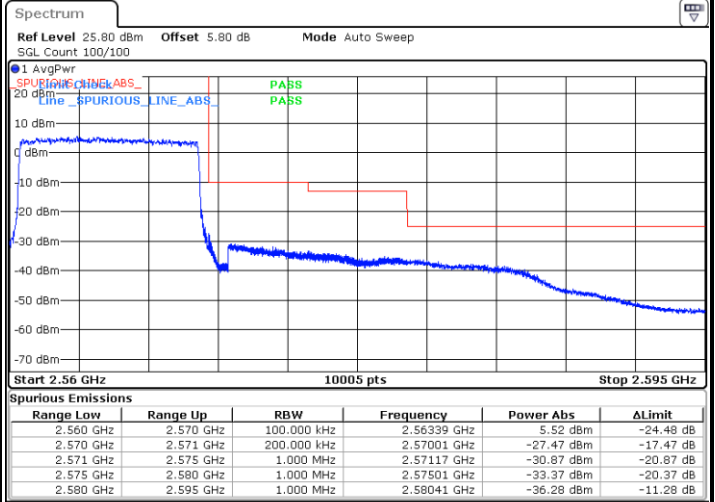
Date: 19.OCT.2019 19:10:42

Lowest Band Edge / Full RB



Date: 19.OCT.2019 19:06:09

Highest Band Edge / Full RB

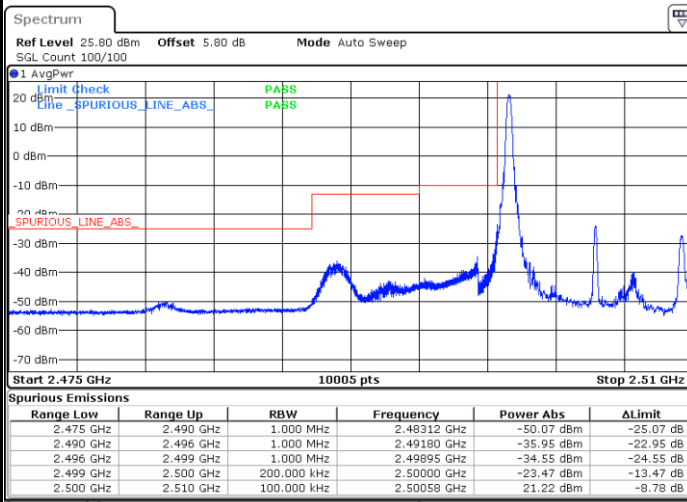


Date: 19.OCT.2019 19:07:17



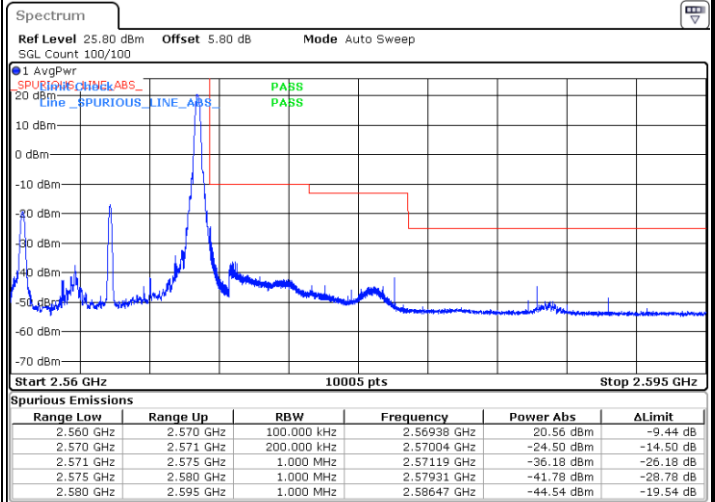
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



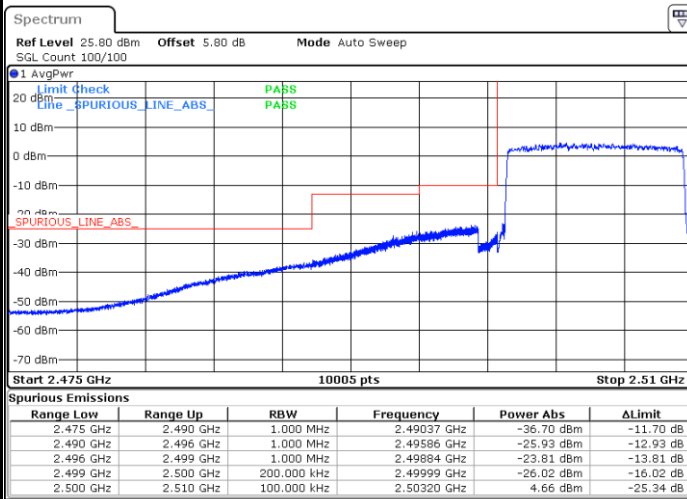
Date: 19.OCT.2019 19:03:53

Highest Band Edge / 1 RB



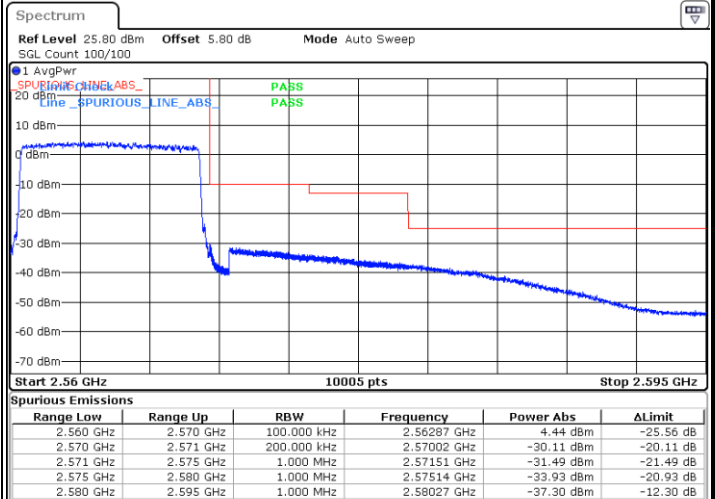
Date: 19.OCT.2019 19:09:33

Lowest Band Edge / Full RB



Date: 19.OCT.2019 19:05:01

Highest Band Edge / Full RB

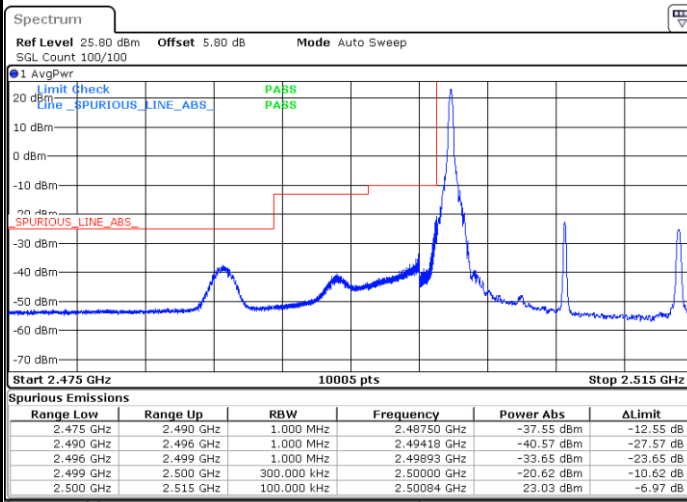


Date: 19.OCT.2019 19:08:25



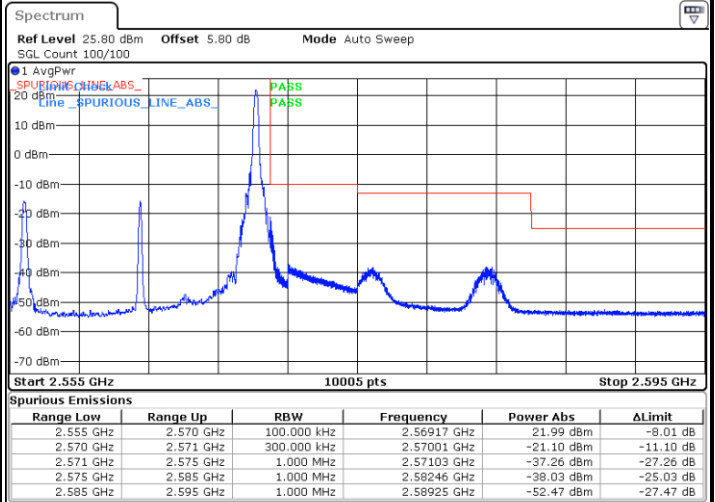
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



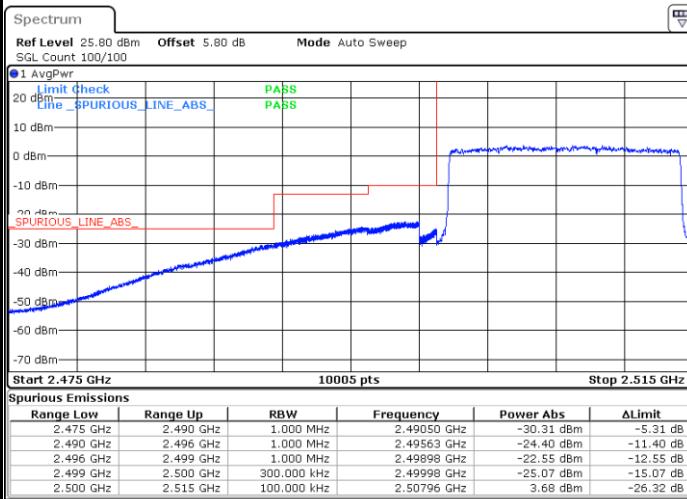
Date: 19.OCT.2019 19:19:15

Highest Band Edge / 1 RB



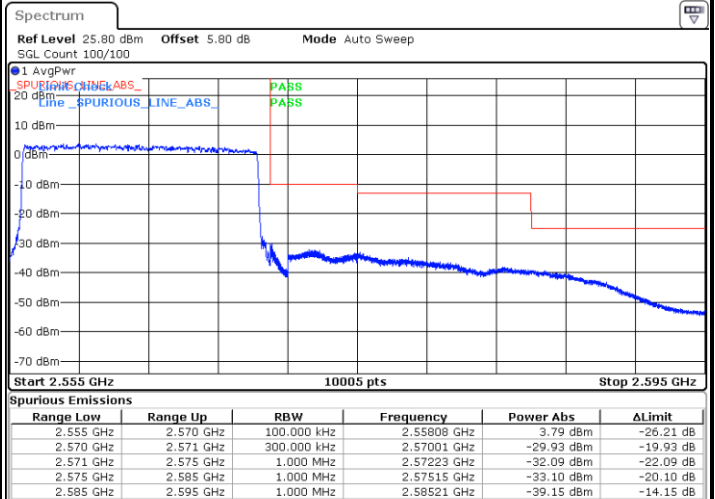
Date: 19.OCT.2019 19:27:13

Lowest Band Edge / Full RB



Date: 19.OCT.2019 19:22:41

Highest Band Edge / Full RB

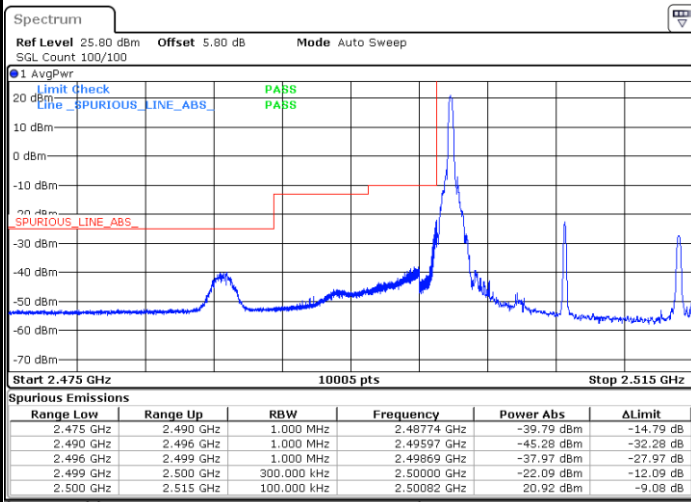


Date: 19.OCT.2019 19:23:49



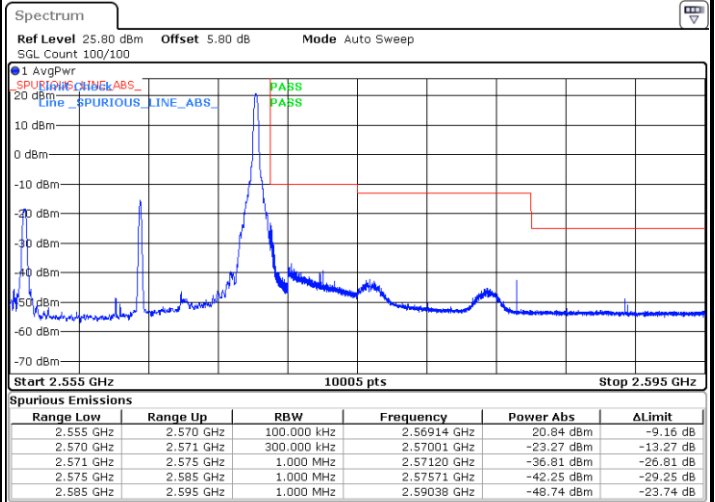
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



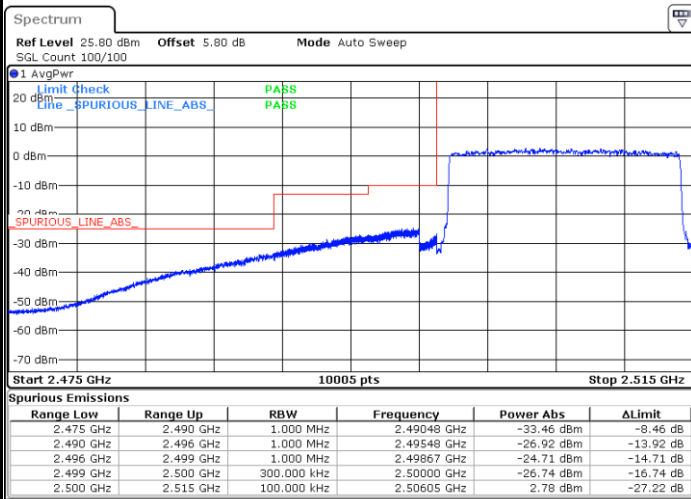
Date: 19.OCT.2019 19:20:24

Highest Band Edge / 1 RB



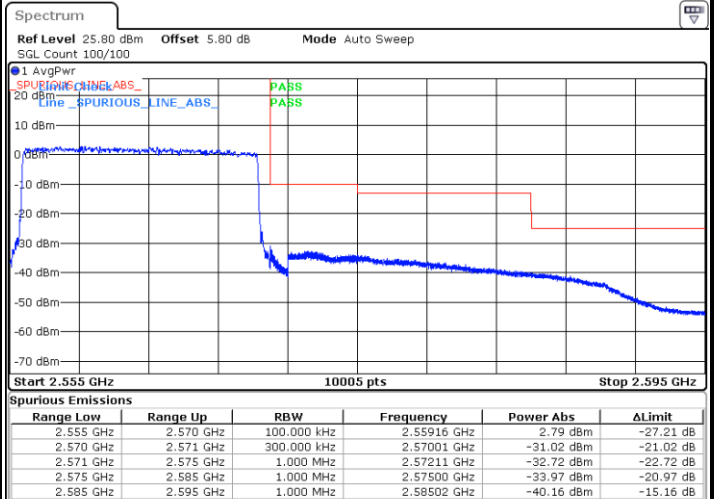
Date: 19.OCT.2019 19:26:05

Lowest Band Edge / Full RB



Date: 19.OCT.2019 19:21:32

Highest Band Edge / Full RB

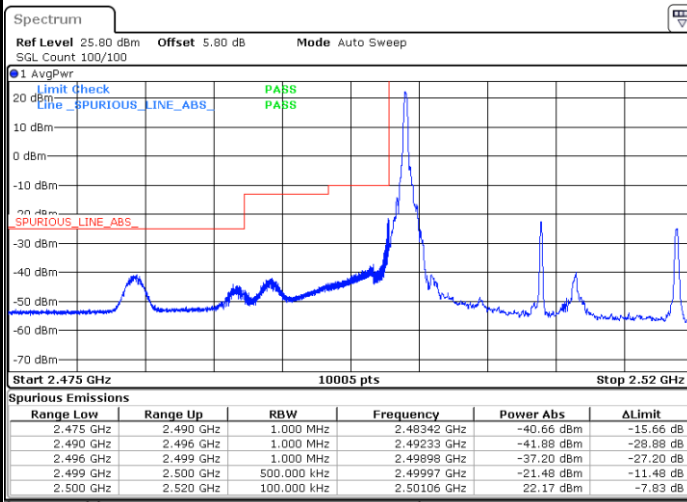


Date: 19.OCT.2019 19:24:57



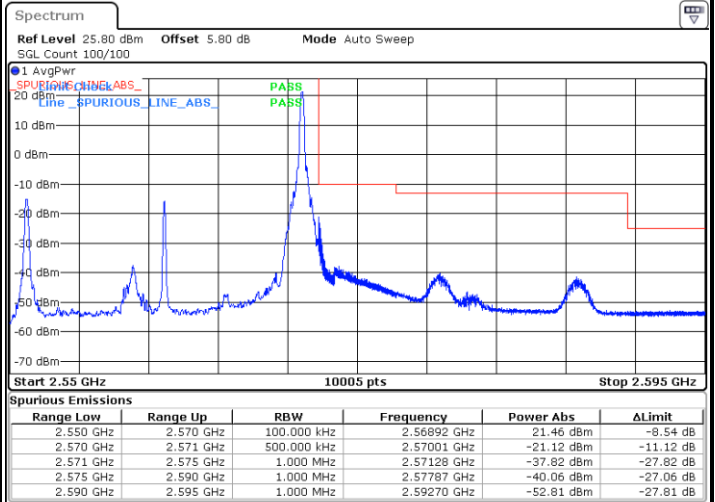
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



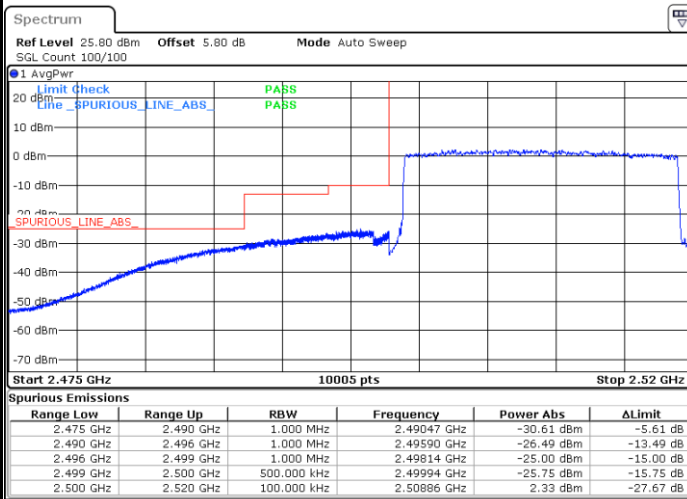
Date: 19.OCT.2019 19:35:47

Highest Band Edge / 1 RB



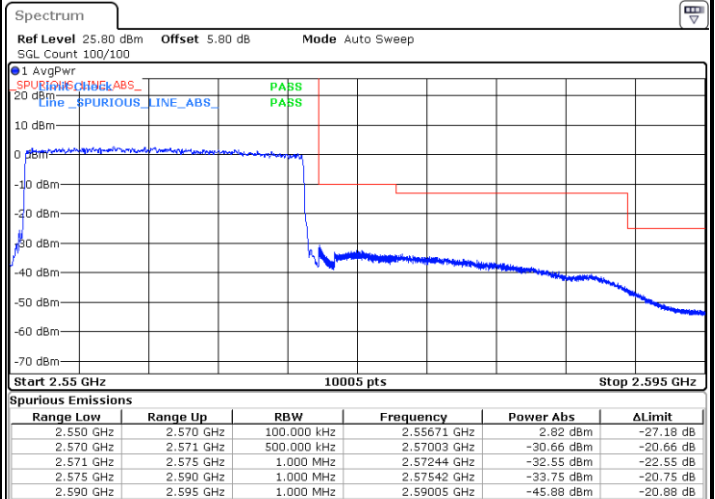
Date: 19.OCT.2019 19:43:46

Lowest Band Edge / Full RB



Date: 19.OCT.2019 19:39:13

Highest Band Edge / Full RB

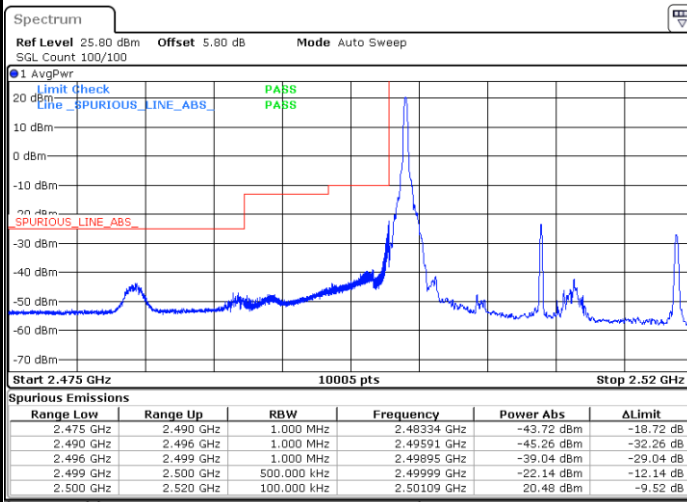


Date: 19.OCT.2019 19:40:21



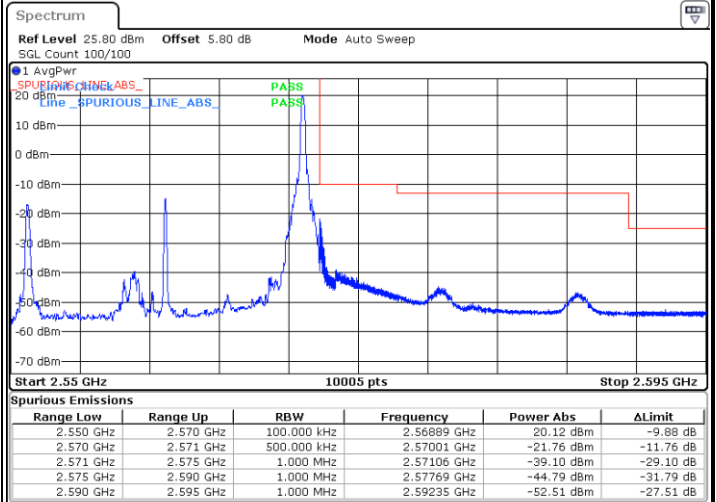
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



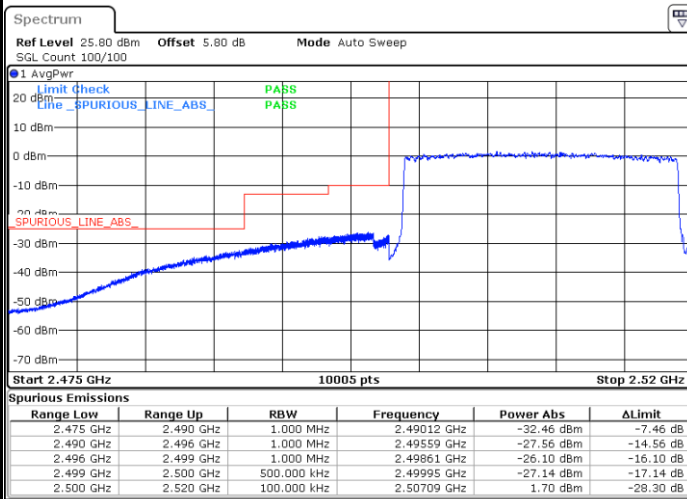
Date: 19.OCT.2019 19:36:56

Highest Band Edge / 1RB



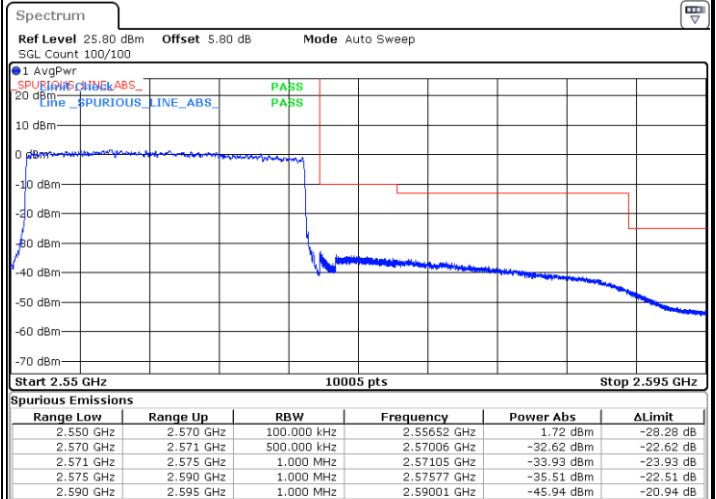
Date: 19.OCT.2019 19:42:37

Lowest Band Edge / Full RB



Date: 19.OCT.2019 19:38:05

Highest Band Edge / Full RB

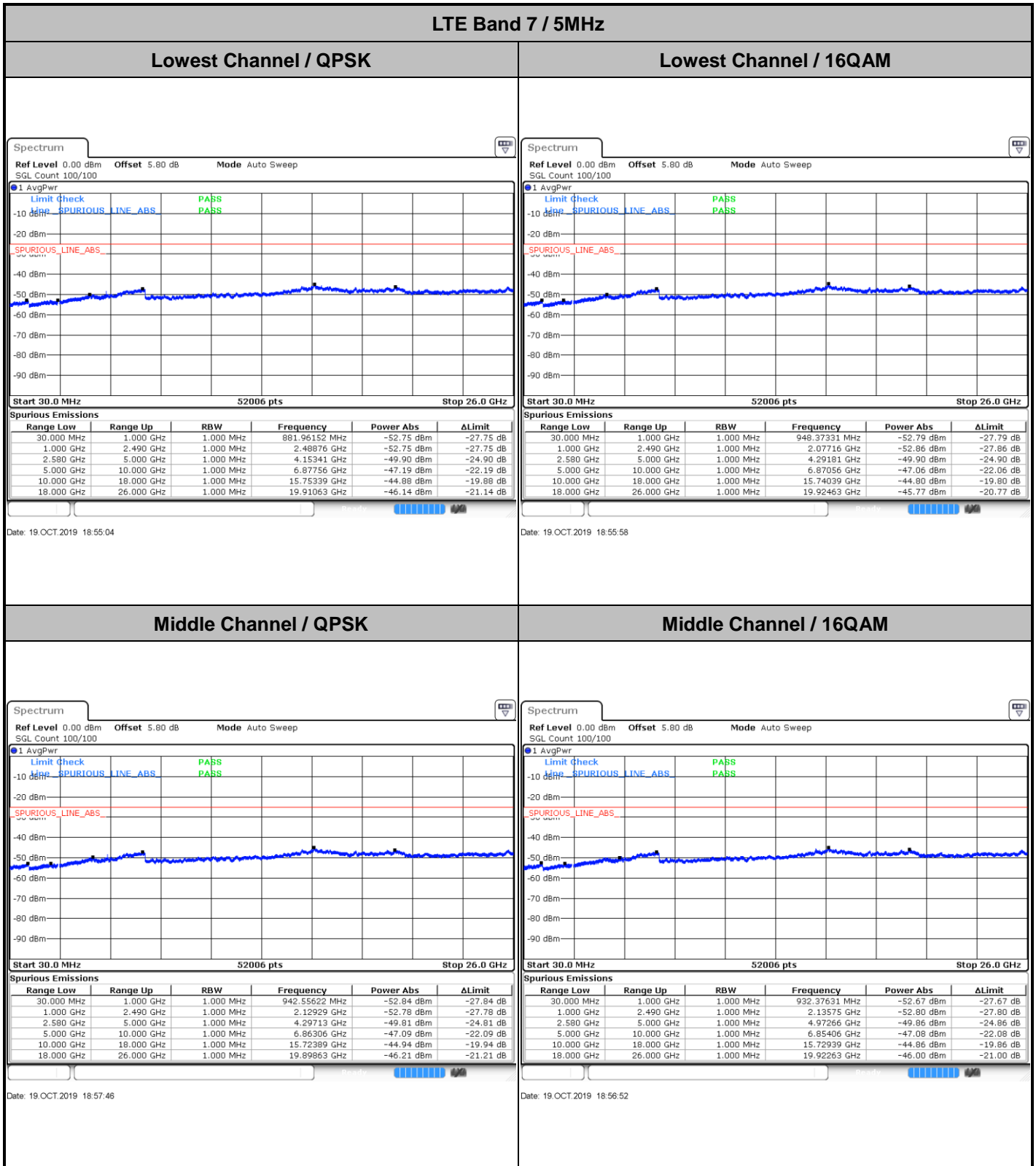


Date: 19.OCT.2019 19:41:29





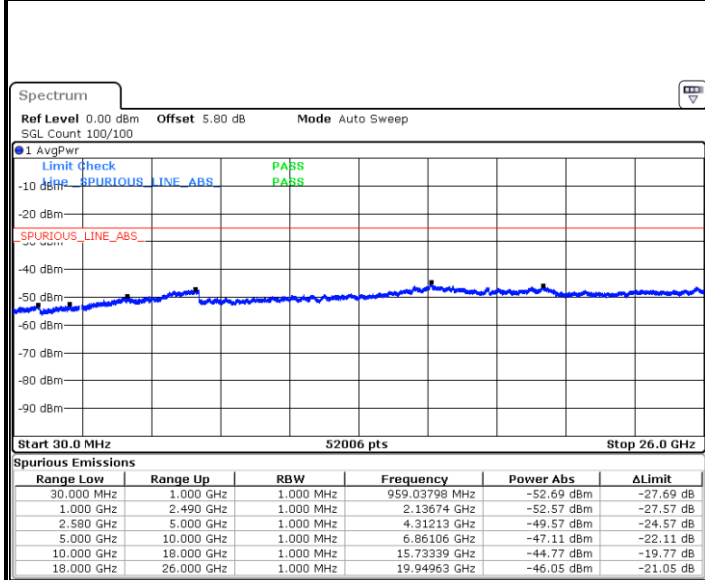
# Conducted Spurious Emission





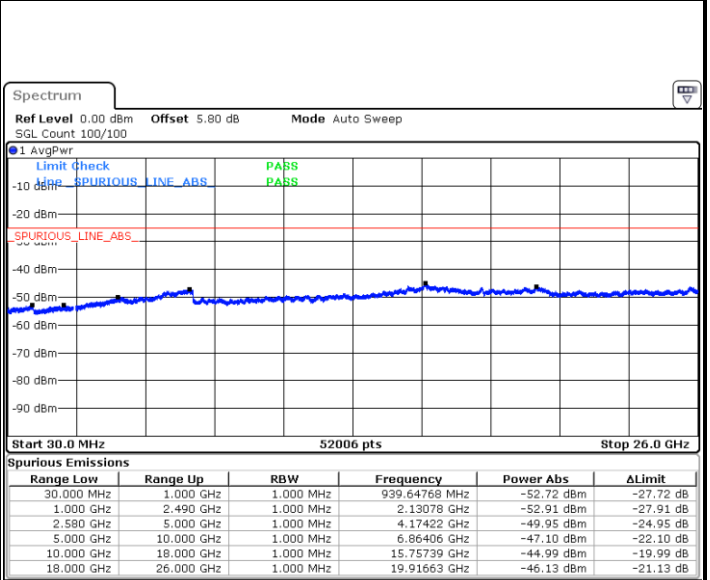
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 19.OCT.2019 18:58:40

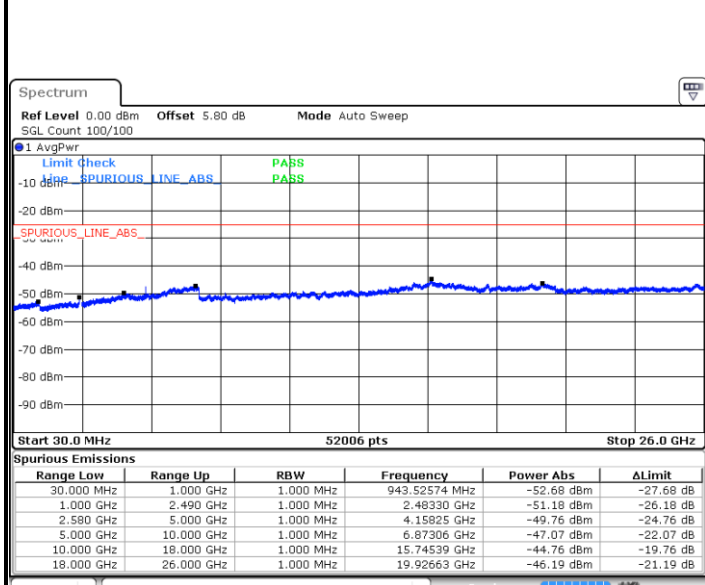
Highest Channel / 16QAM



Date: 19.OCT.2019 18:59:35

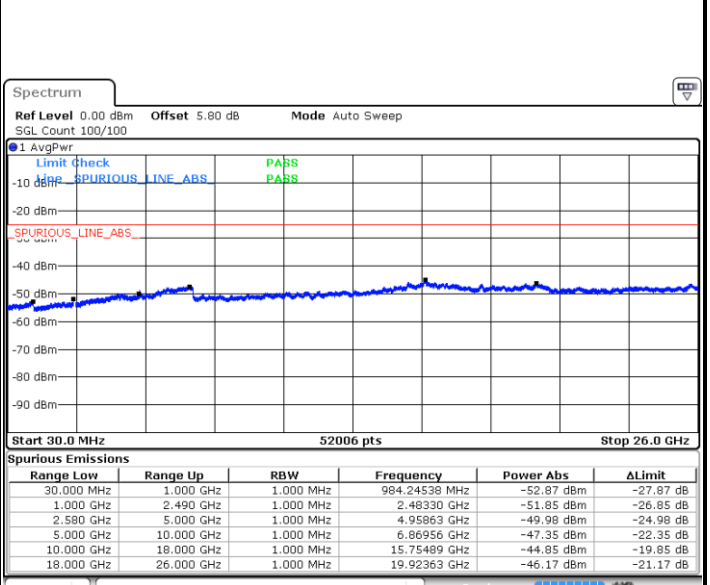
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 19.OCT.2019 19:11:34

Lowest Channel / 16QAM



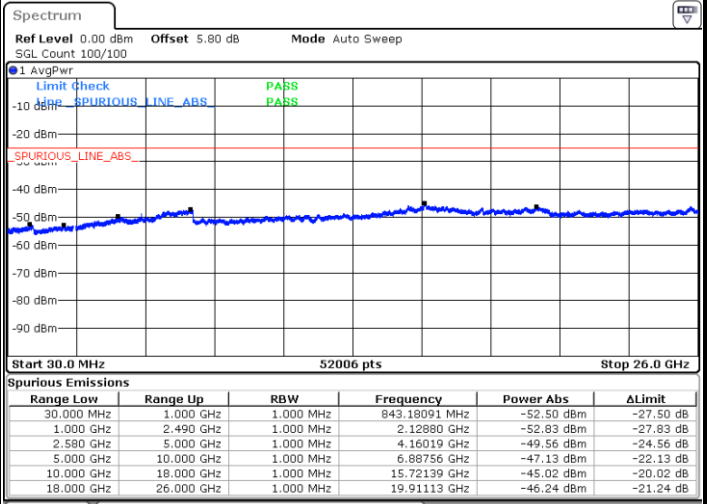
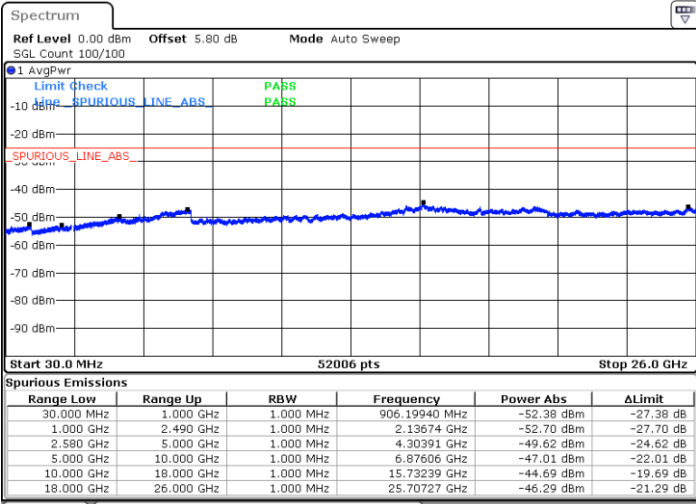
Date: 19.OCT.2019 19:12:28



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

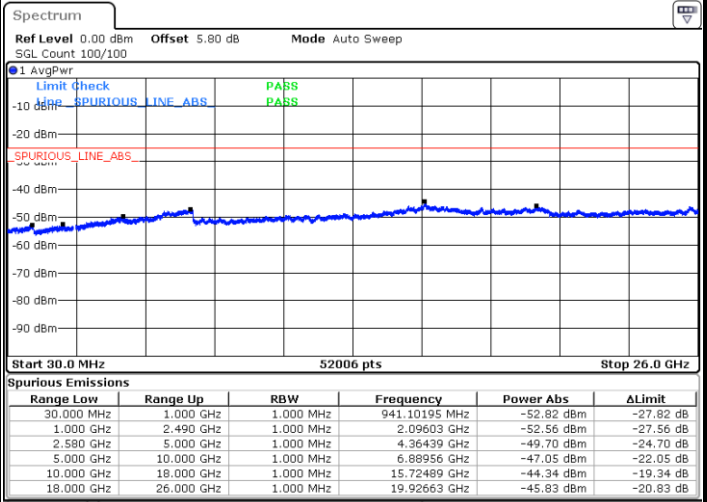
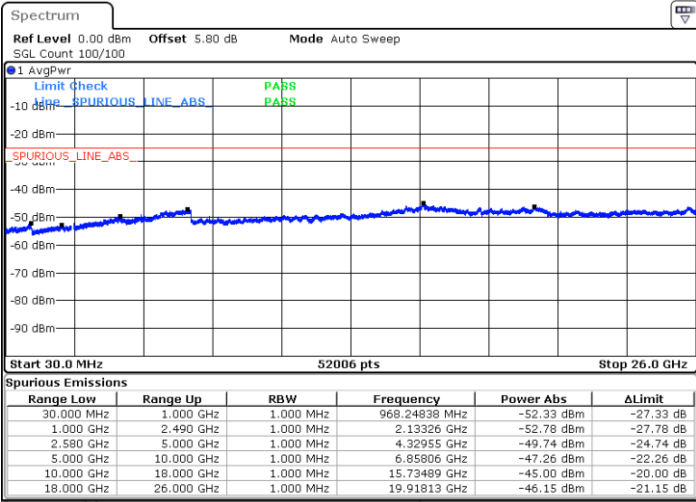


Date: 19.OCT.2019 19:14:17

Date: 19.OCT.2019 19:13:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.OCT.2019 19:15:11

Date: 19.OCT.2019 19:16:05