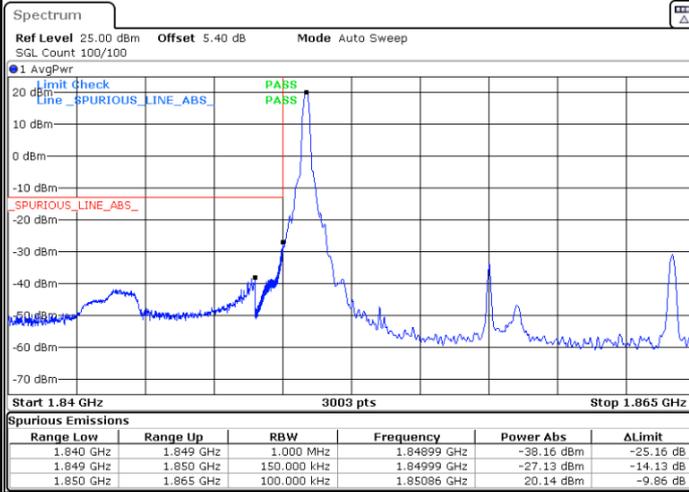




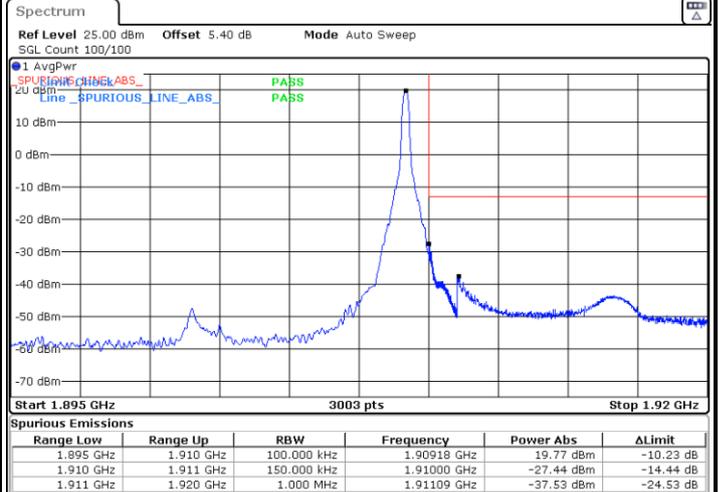
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



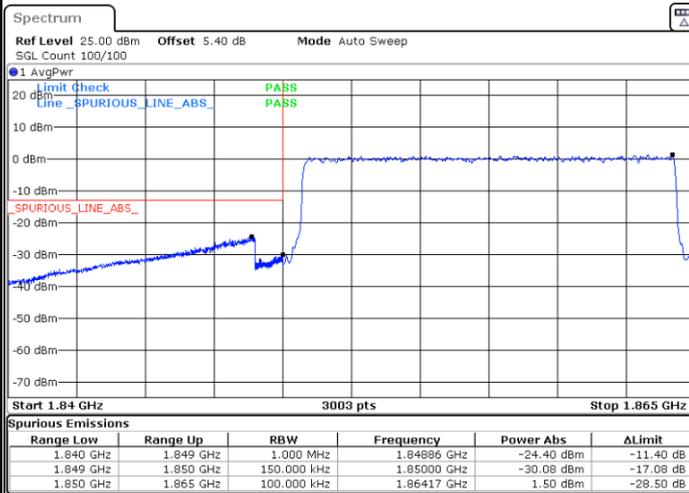
Date: 21.NOV.2024 20:30:22

Highest Band Edge / 1 RB



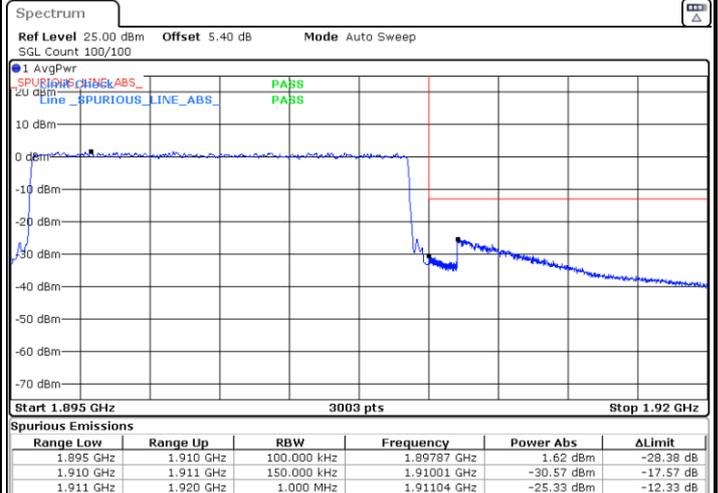
Date: 21.NOV.2024 20:37:31

Lowest Band Edge / Full RB



Date: 21.NOV.2024 20:26:01

Highest Band Edge / Full RB

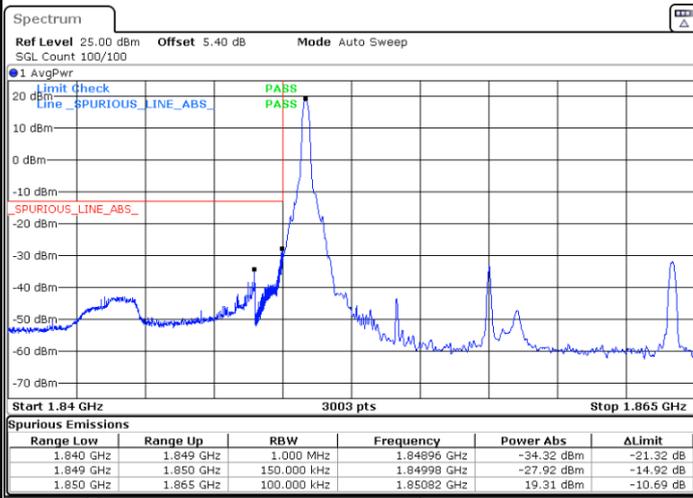


Date: 21.NOV.2024 20:42:27



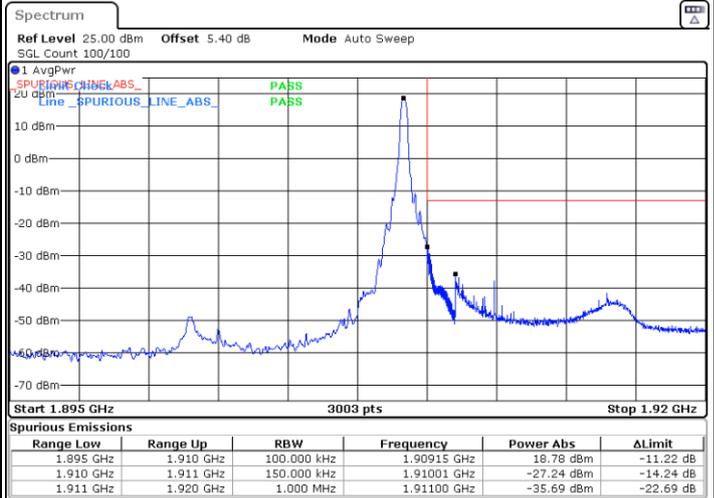
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



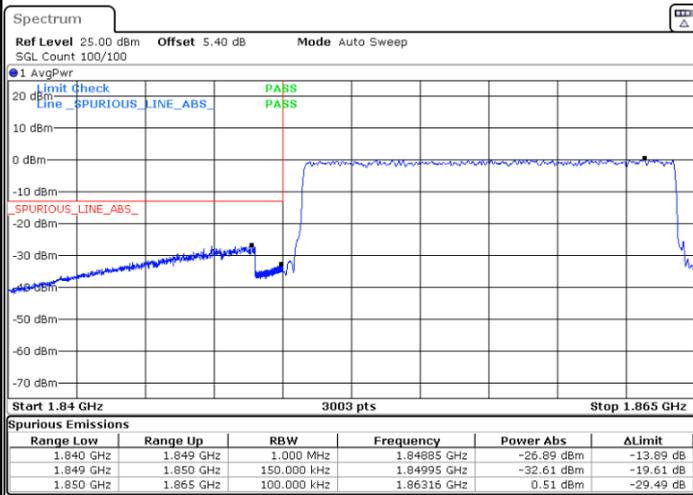
Date: 21.NOV.2024 20:30:46

Highest Band Edge / 1 RB



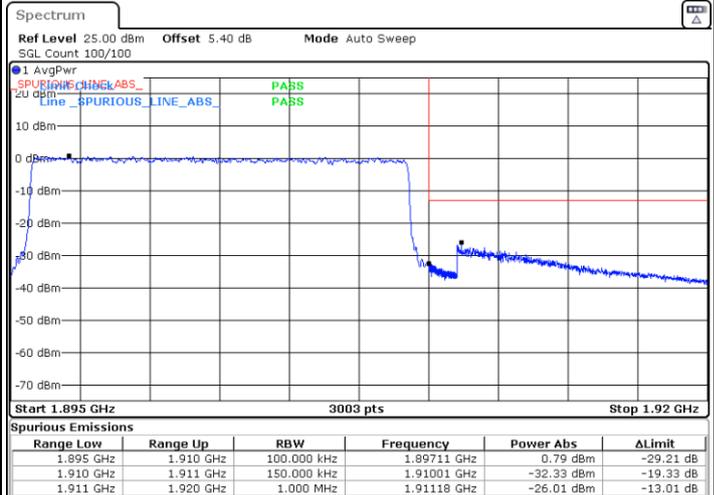
Date: 21.NOV.2024 20:41:00

Lowest Band Edge / Full RB



Date: 21.NOV.2024 20:26:46

Highest Band Edge / Full RB

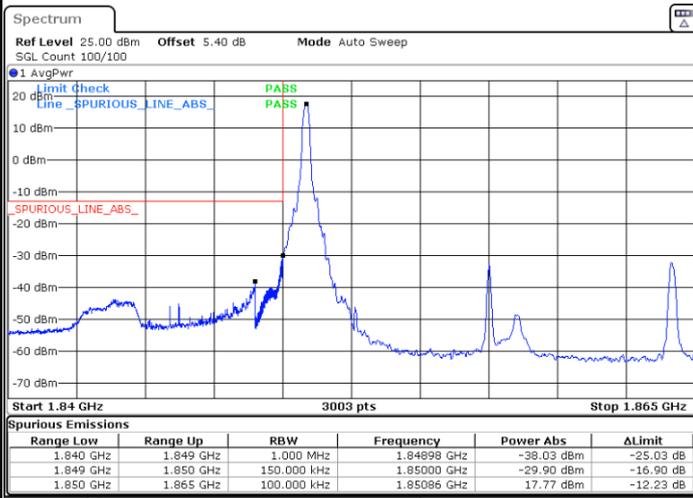


Date: 21.NOV.2024 20:42:57



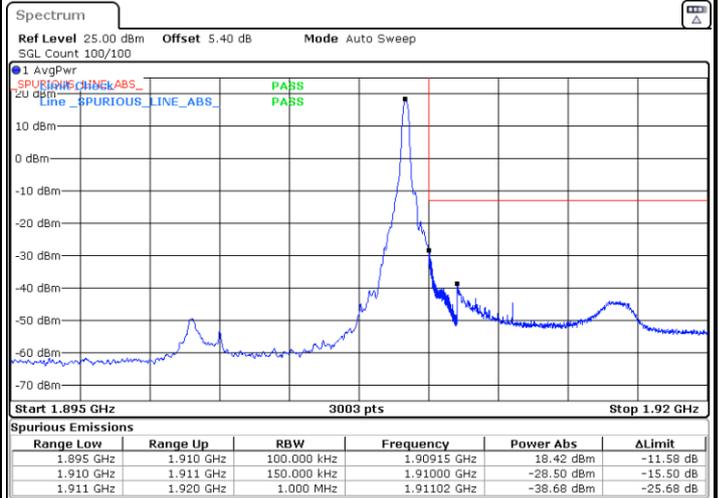
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



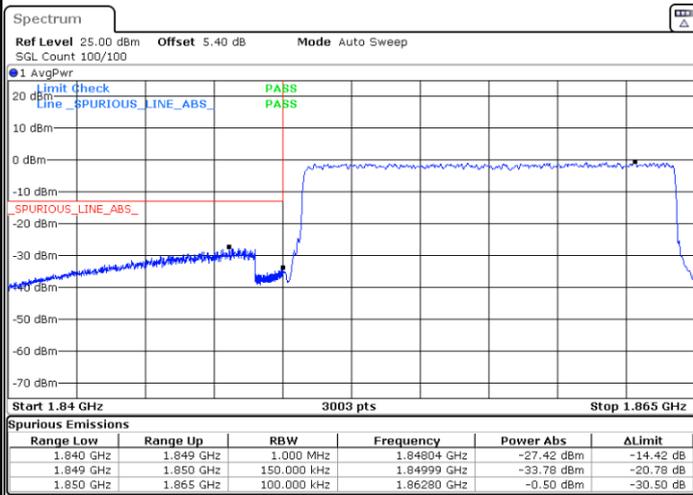
Date: 21.NOV.2024 20:31:19

Highest Band Edge / 1 RB



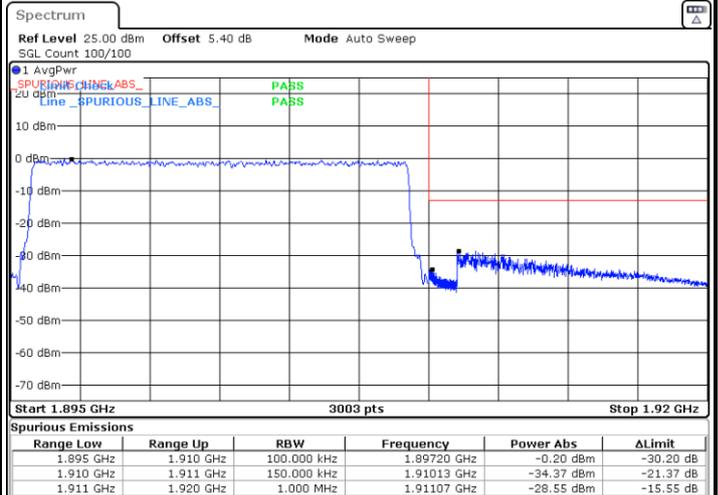
Date: 21.NOV.2024 20:41:38

Lowest Band Edge / Full RB



Date: 21.NOV.2024 20:27:11

Highest Band Edge / Full RB

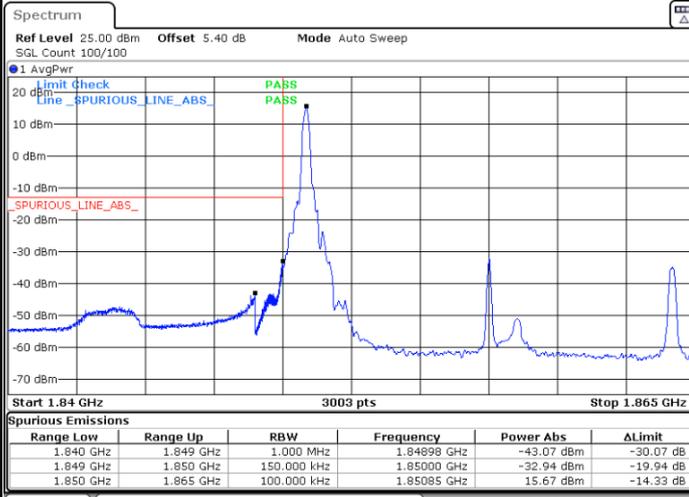


Date: 21.NOV.2024 20:47:22



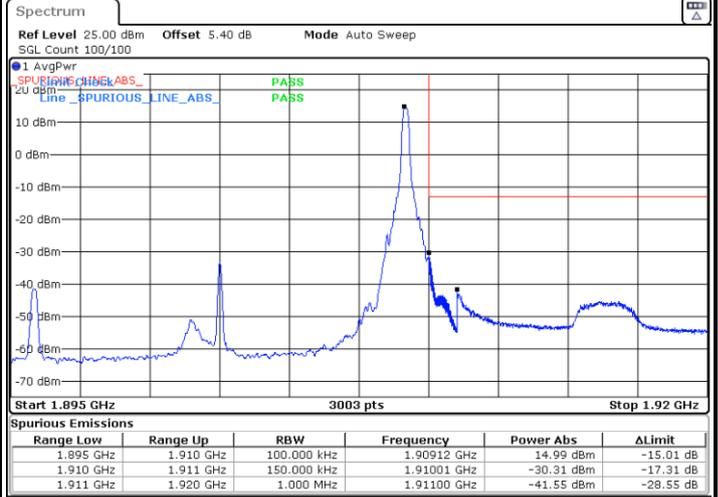
LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



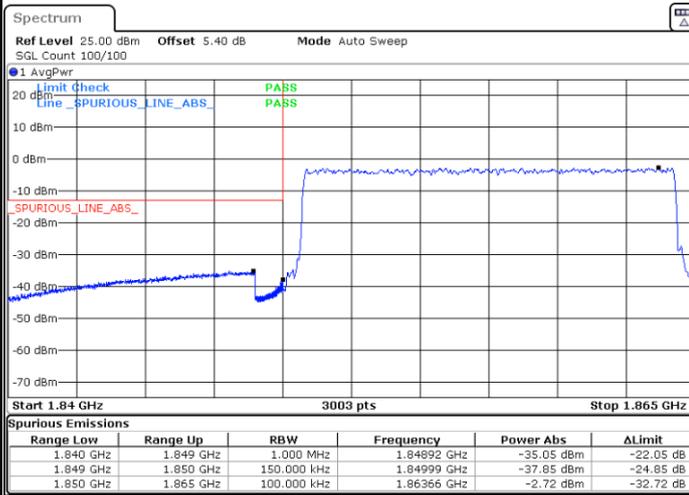
Date: 21.NOV.2024 20:32:08

Highest Band Edge / 1 RB



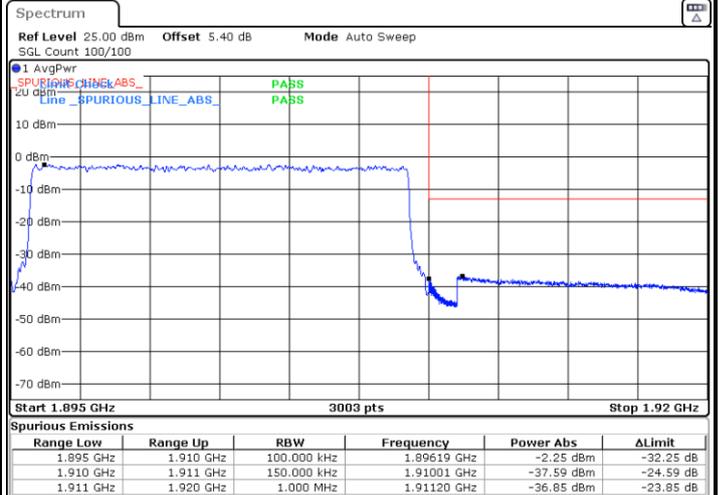
Date: 21.NOV.2024 20:41:59

Lowest Band Edge / Full RB



Date: 21.NOV.2024 20:27:48

Highest Band Edge / Full RB

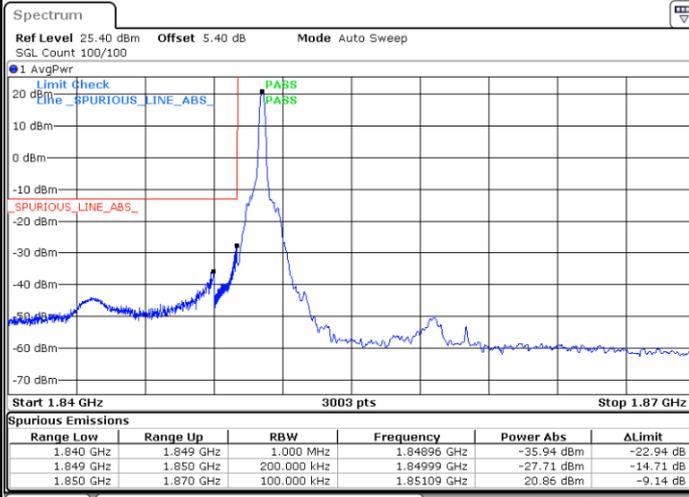


Date: 21.NOV.2024 20:49:07



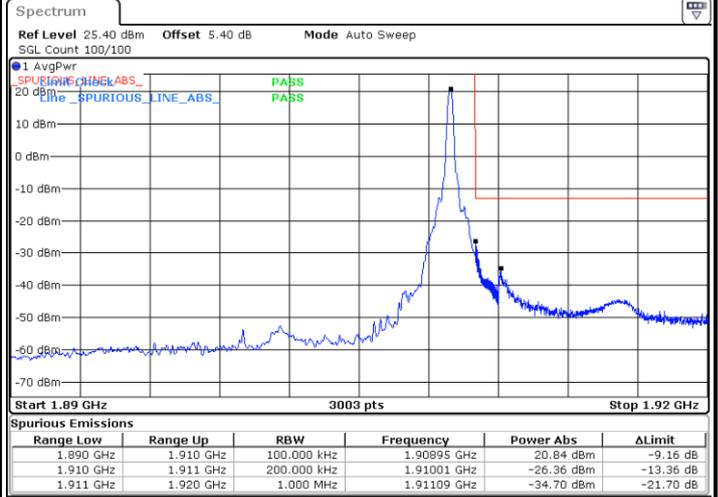
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



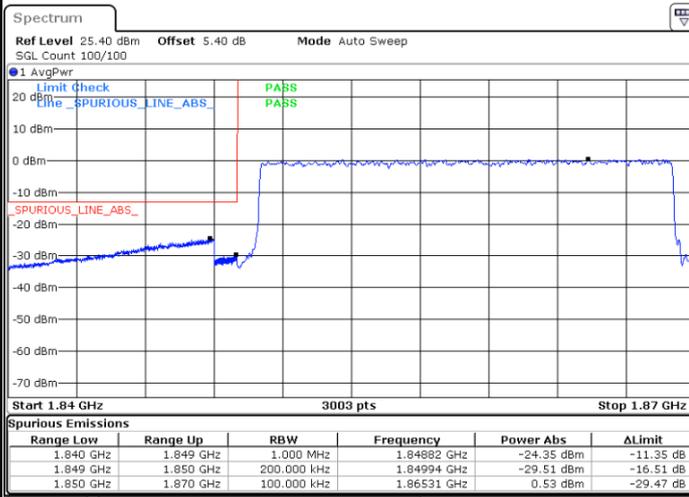
Date: 19.NOV.2024 22:37:24

Highest Band Edge / 1 RB



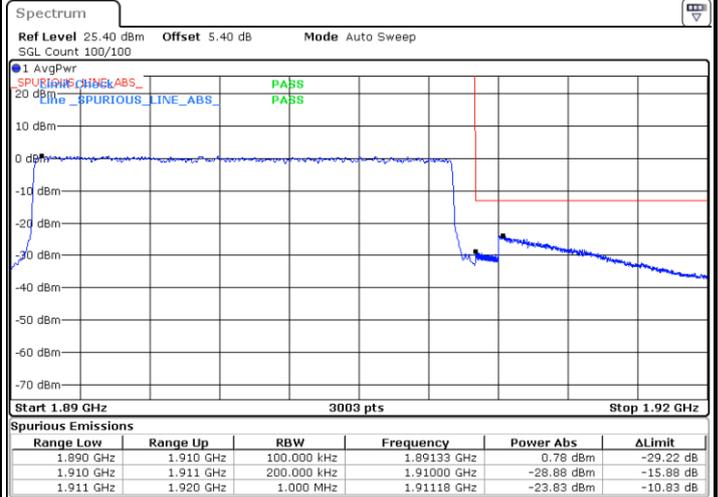
Date: 19.NOV.2024 22:45:27

Lowest Band Edge / Full RB



Date: 19.NOV.2024 22:40:05

Highest Band Edge / Full RB

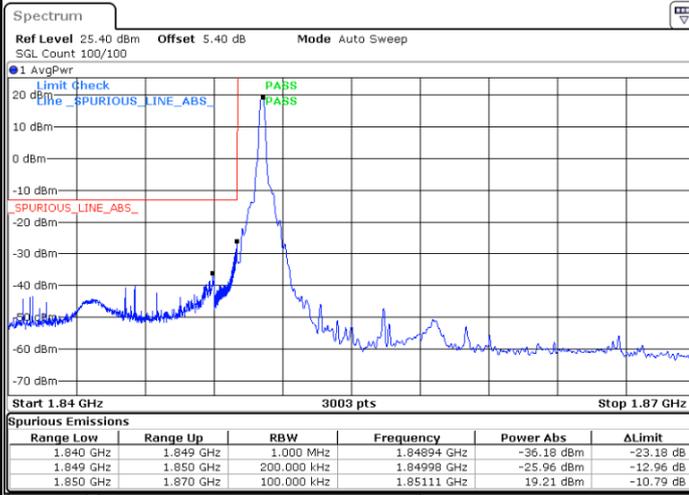


Date: 19.NOV.2024 22:46:09



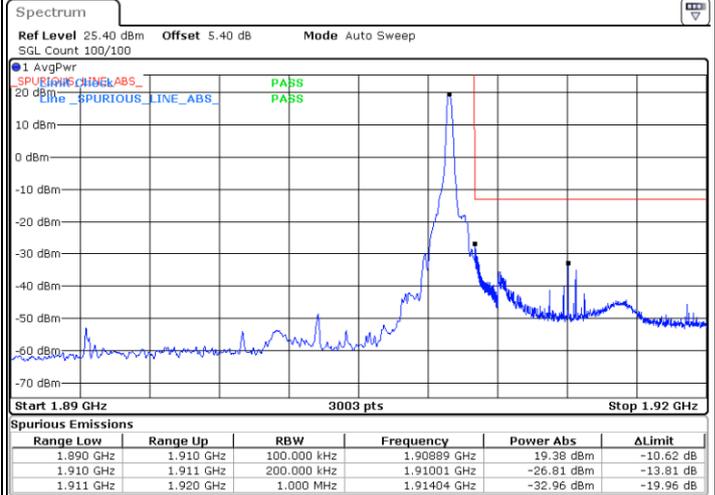
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



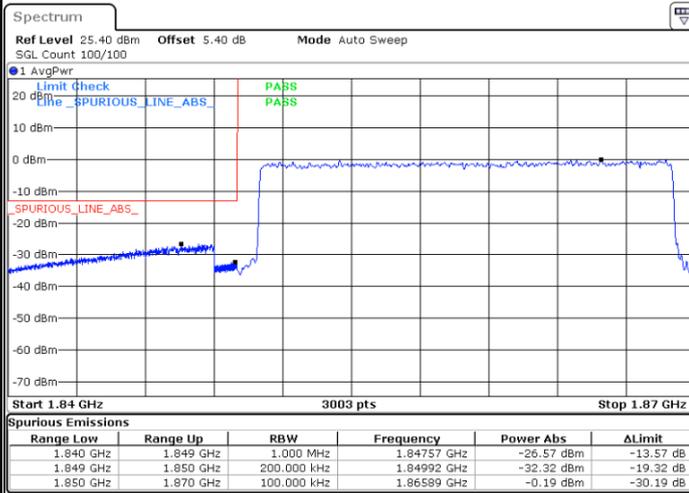
Date: 19.NOV.2024 22:38:04

Highest Band Edge / 1 RB



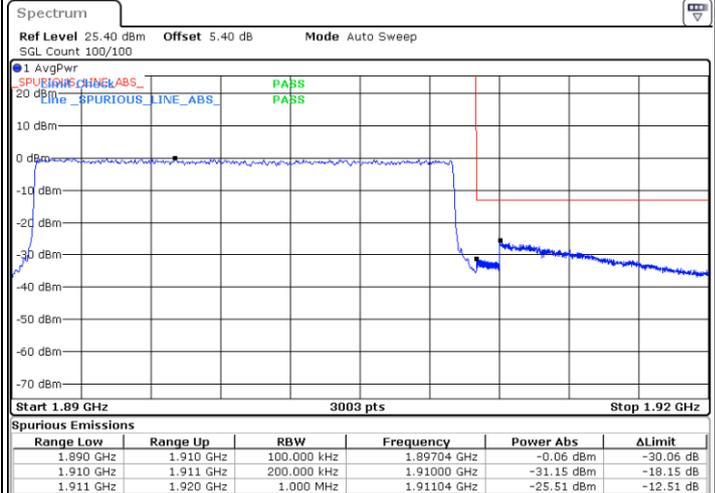
Date: 19.NOV.2024 22:46:08

Lowest Band Edge / Full RB



Date: 19.NOV.2024 22:40:46

Highest Band Edge / Full RB

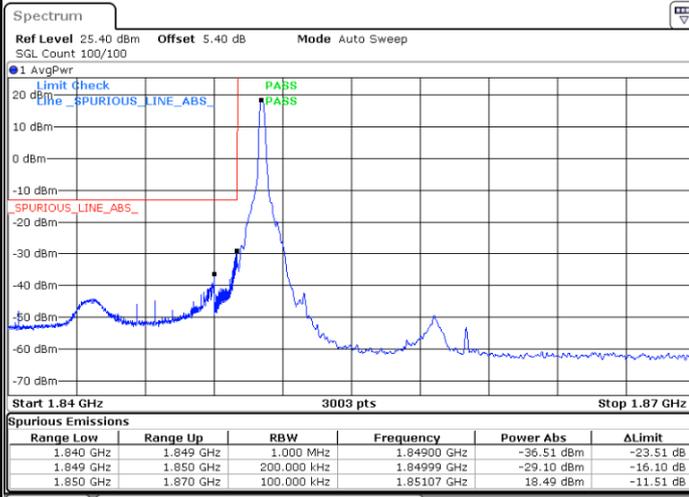


Date: 19.NOV.2024 22:48:50



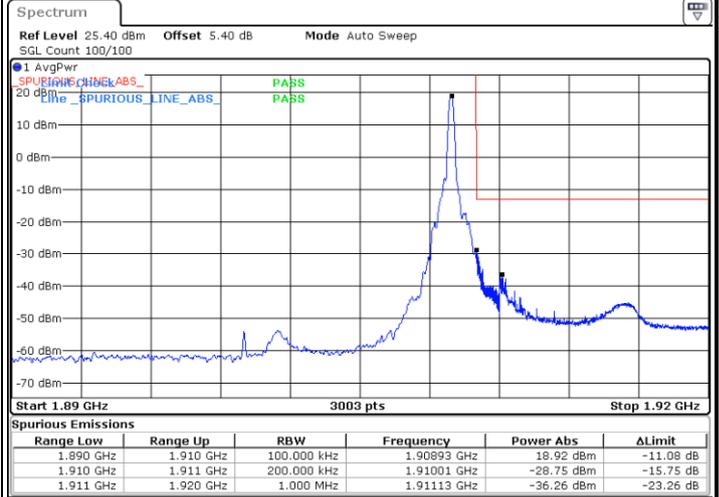
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



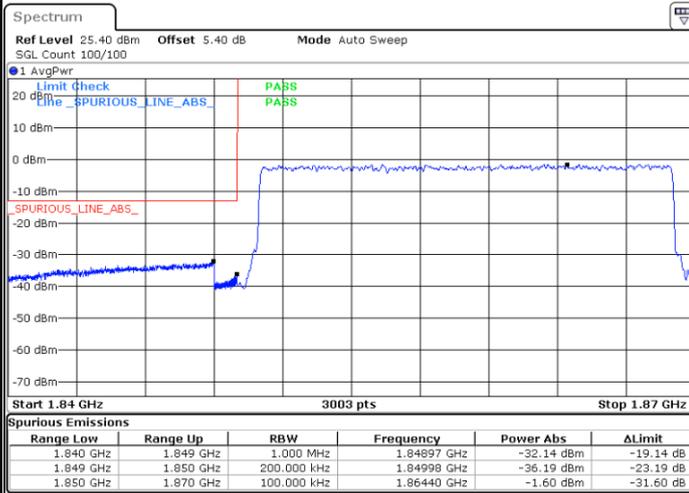
Date: 19.NOV.2024 22:38:44

Highest Band Edge / 1 RB



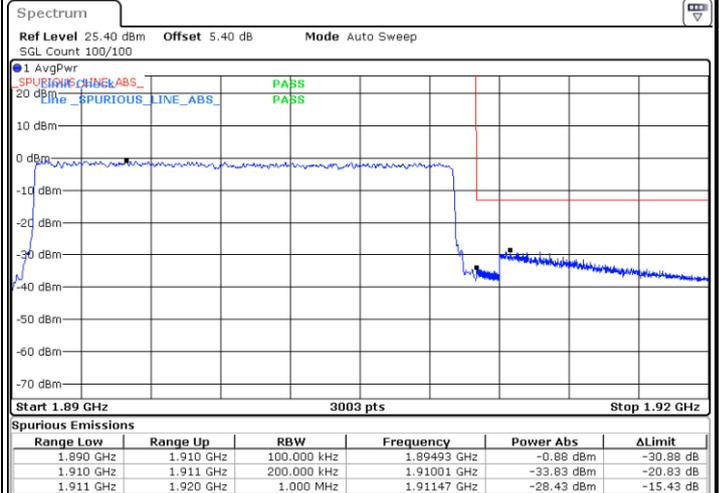
Date: 19.NOV.2024 22:46:48

Lowest Band Edge / Full RB



Date: 19.NOV.2024 22:41:26

Highest Band Edge / Full RB

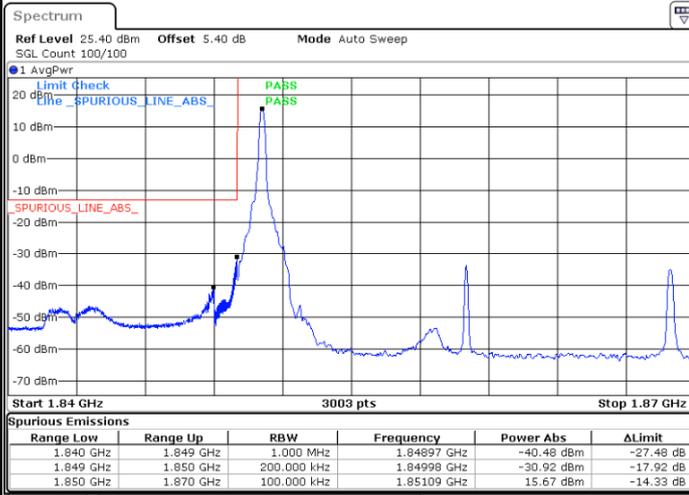


Date: 19.NOV.2024 22:49:30



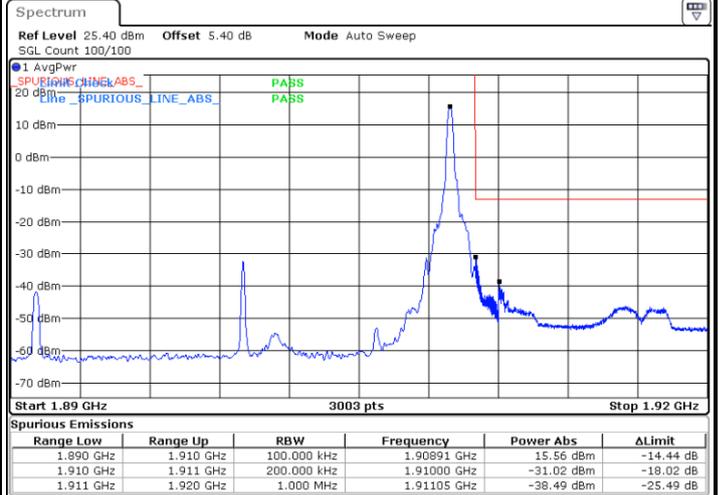
LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



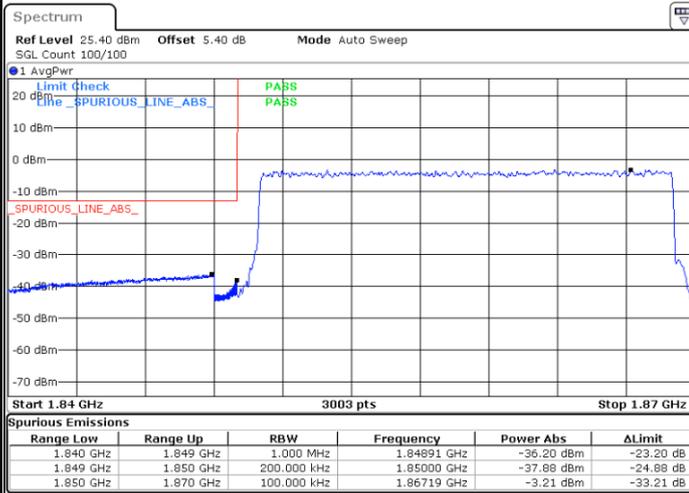
Date: 19.NOV.2024 22:39:25

Highest Band Edge / 1 RB



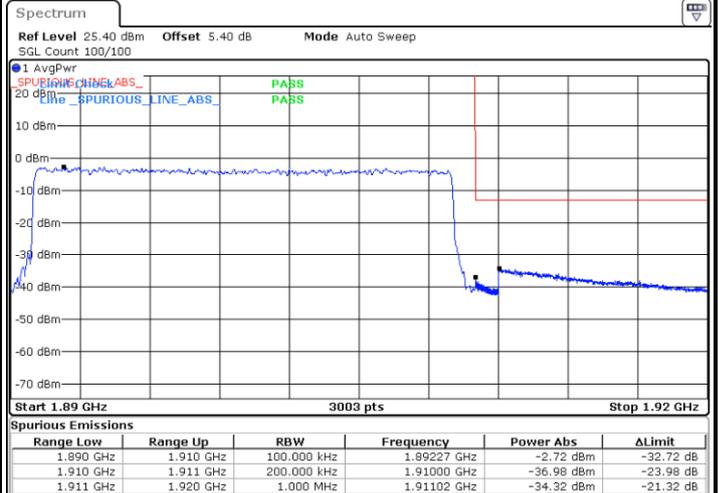
Date: 19.NOV.2024 22:47:29

Lowest Band Edge / Full RB



Date: 19.NOV.2024 22:42:06

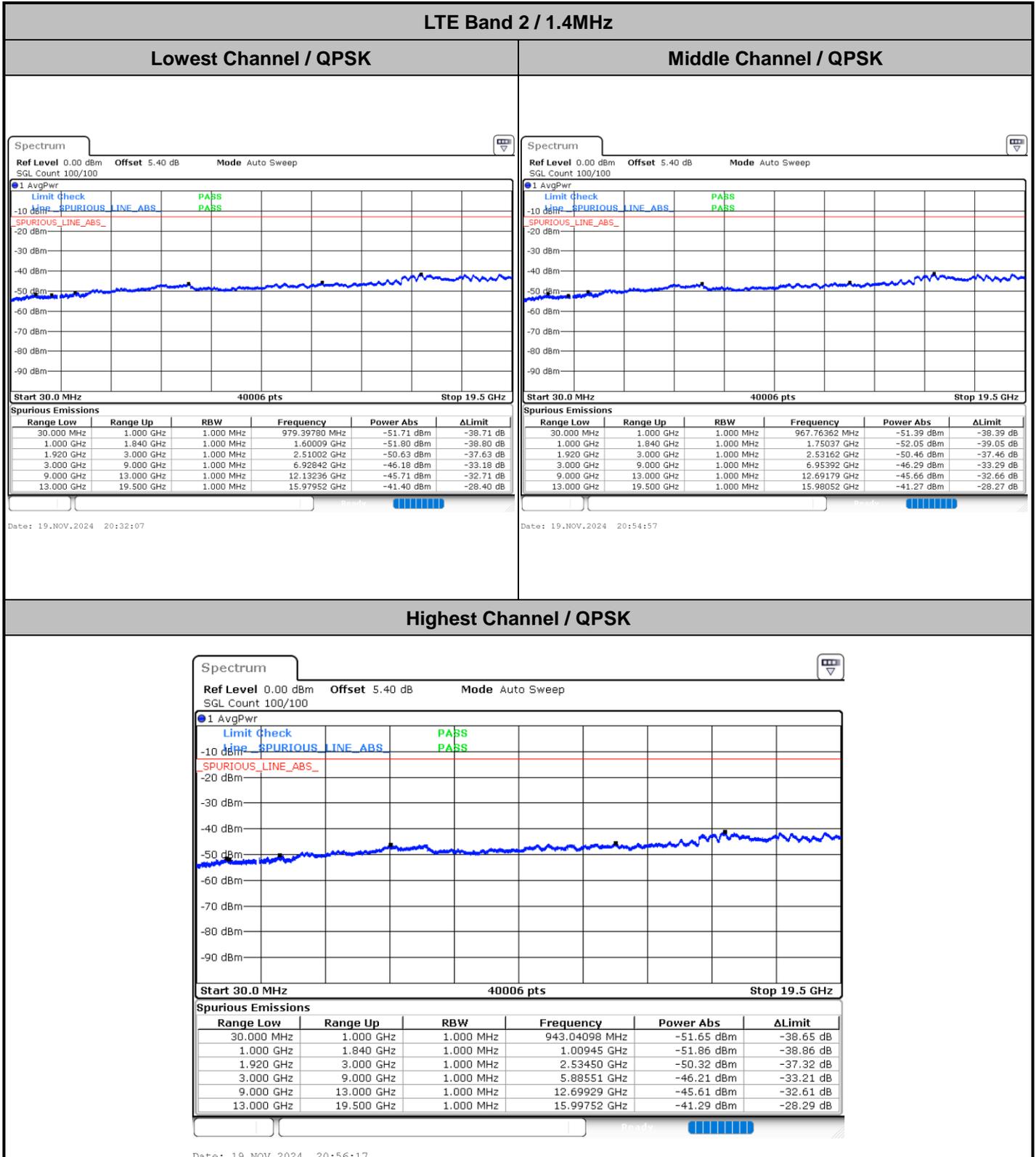
Highest Band Edge / Full RB



Date: 19.NOV.2024 22:50:11



Conducted Spurious Emission

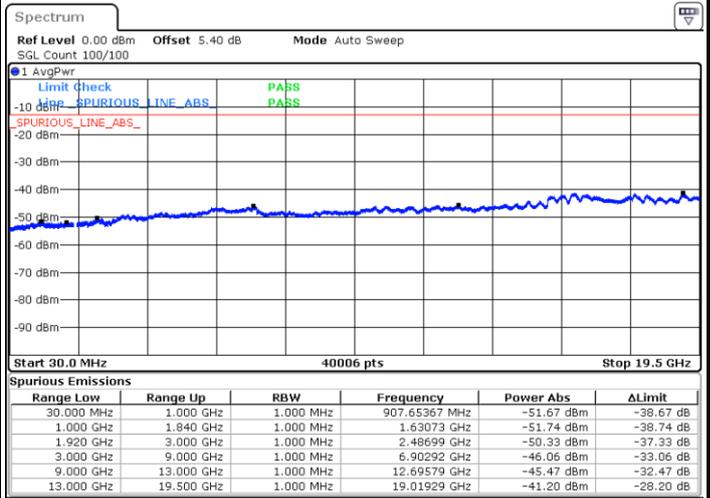
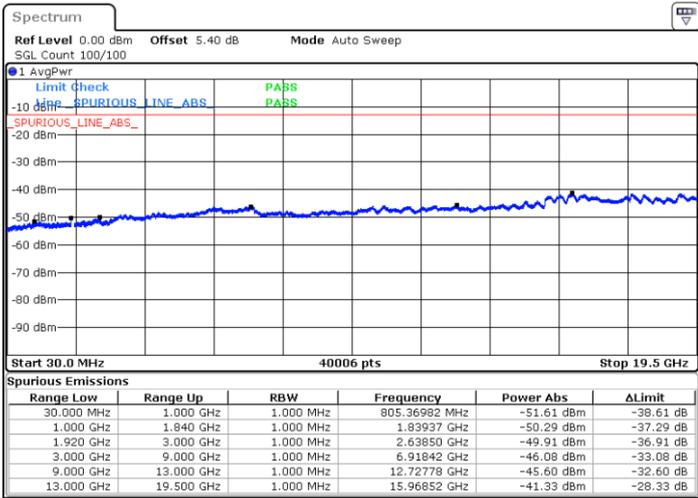




LTE Band 2 / 3MHz

Lowest Channel / QPSK

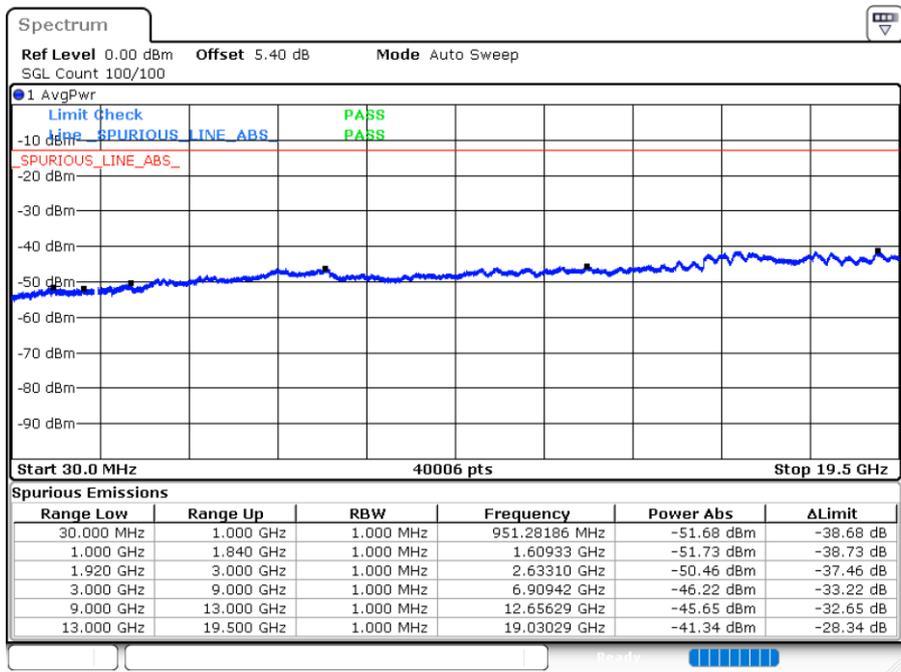
Middle Channel / QPSK



Date: 19.NOV.2024 21:42:18

Date: 19.NOV.2024 21:53:13

Highest Channel / QPSK



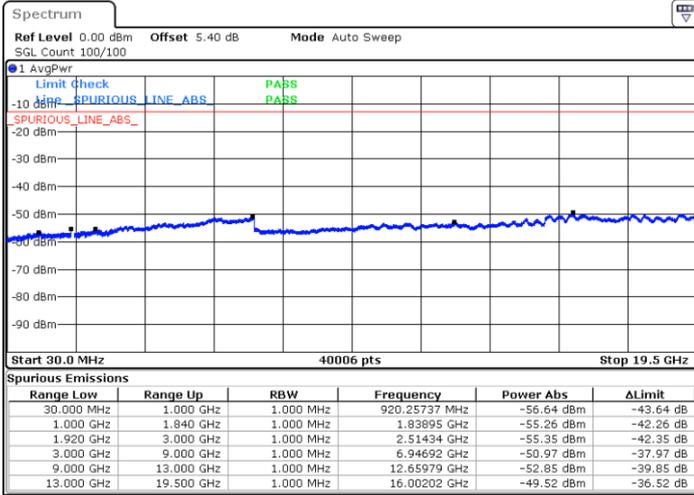
Date: 19.NOV.2024 21:54:33



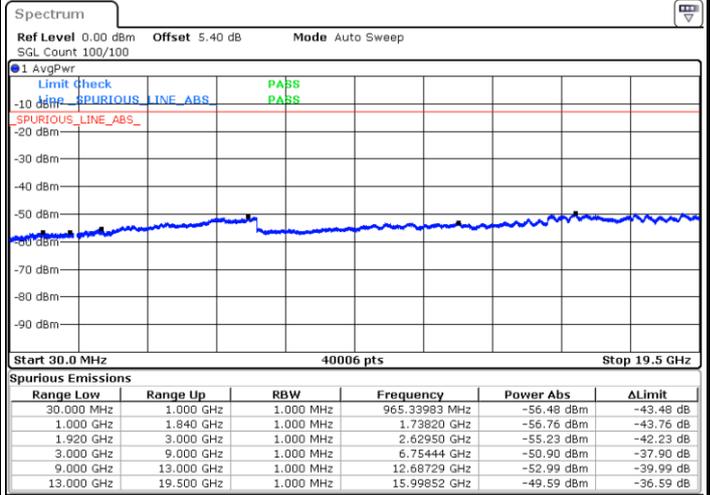
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

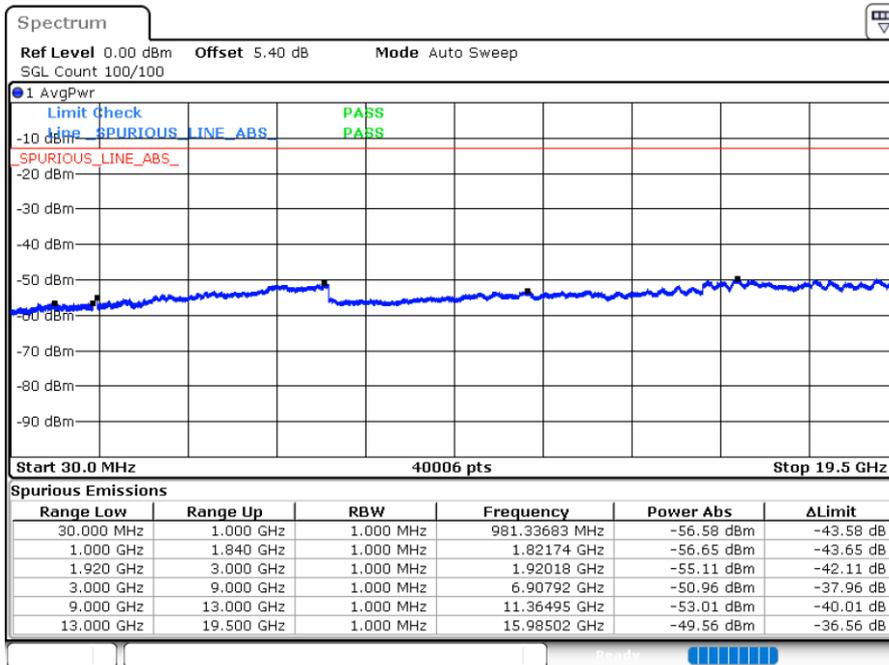


Date: 19.NOV.2024 22:04:37



Date: 19.NOV.2024 22:12:50

Highest Channel / QPSK



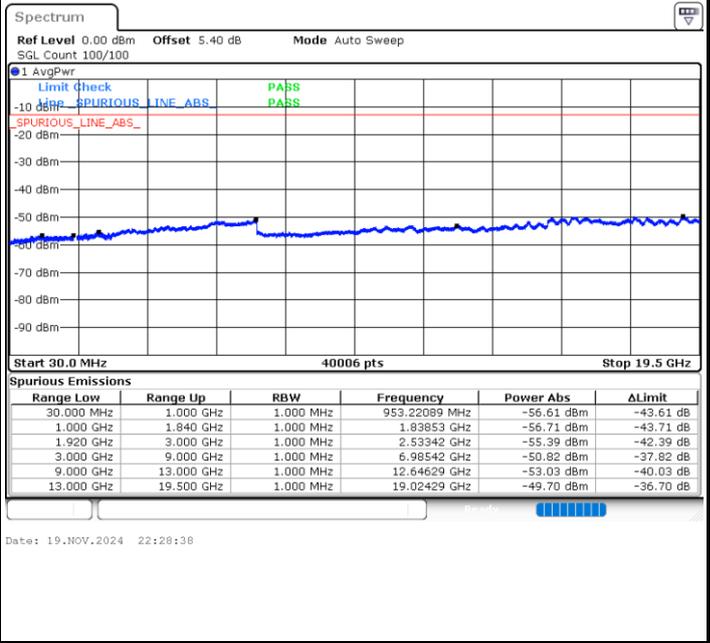
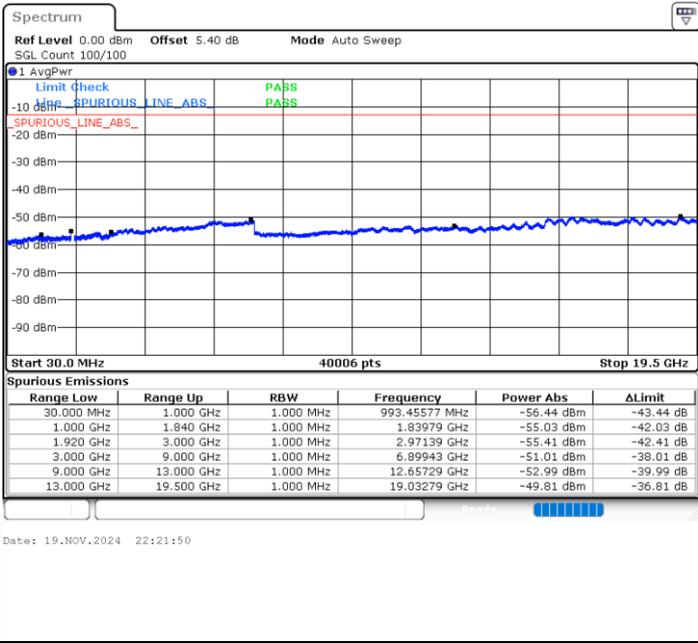
Date: 19.NOV.2024 22:14:10



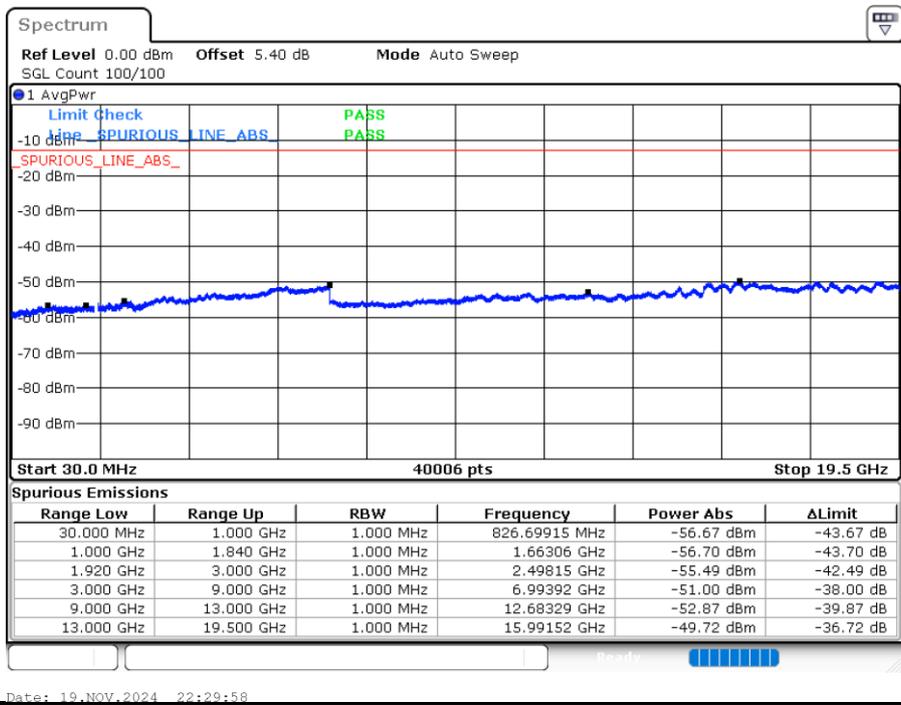
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

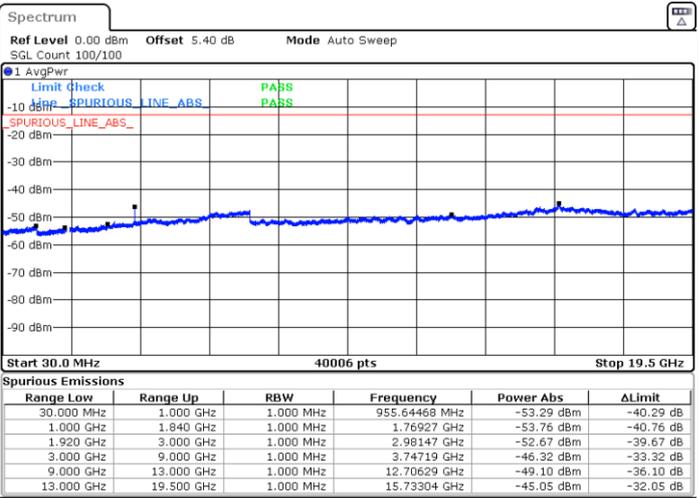
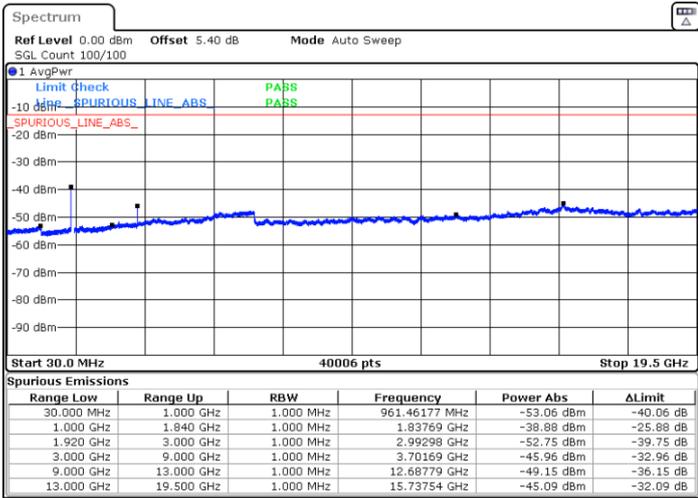




LTE Band 2 / 15MHz

Lowest Channel / QPSK

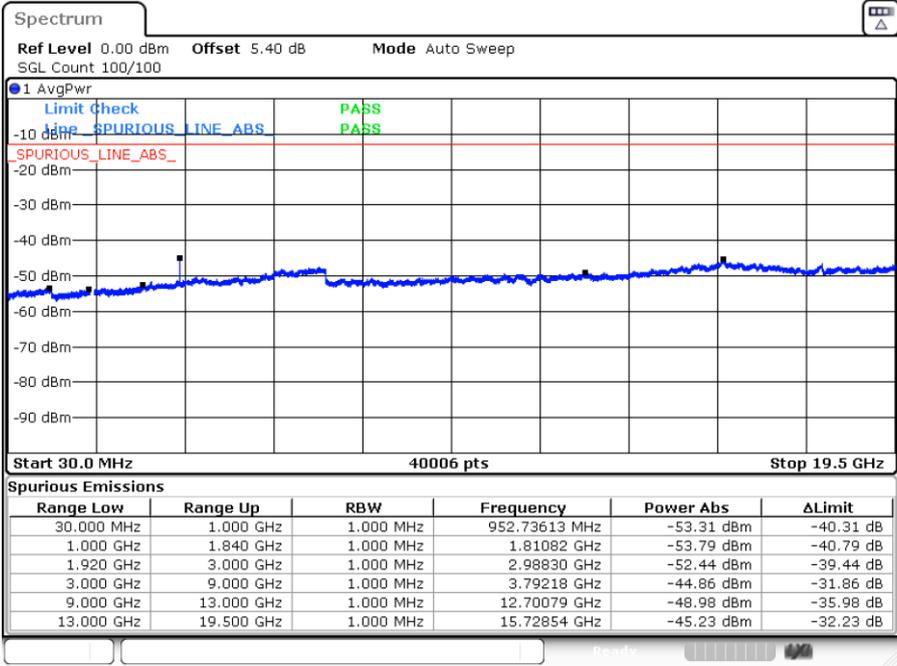
Middle Channel / QPSK



Date: 21.NOV.2024 20:30:03

Date: 21.NOV.2024 20:33:40

Highest Channel / QPSK



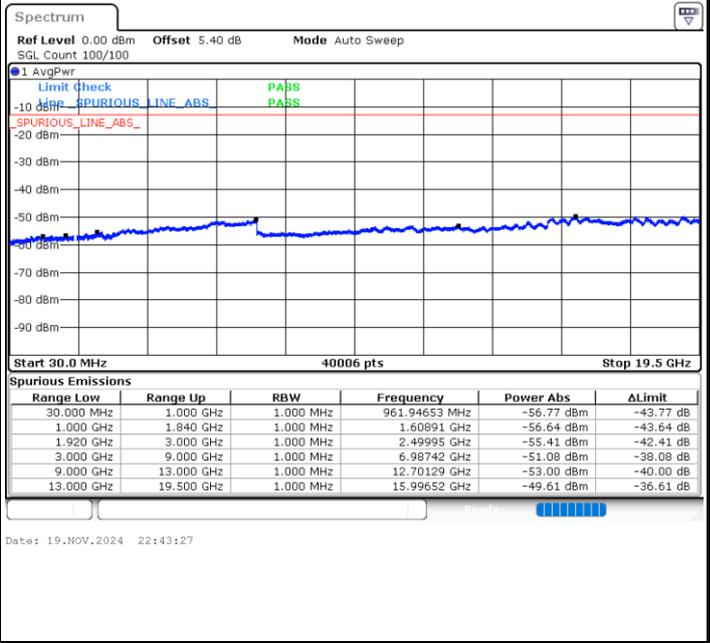
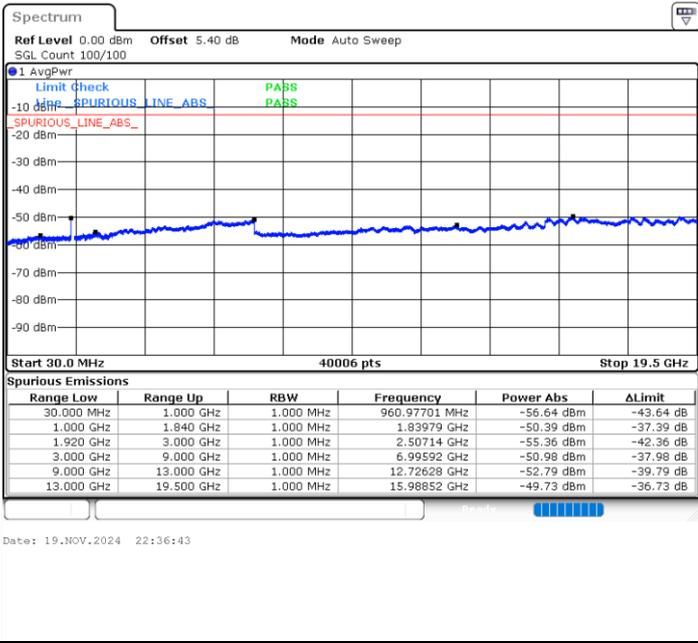
Date: 21.NOV.2024 20:36:51



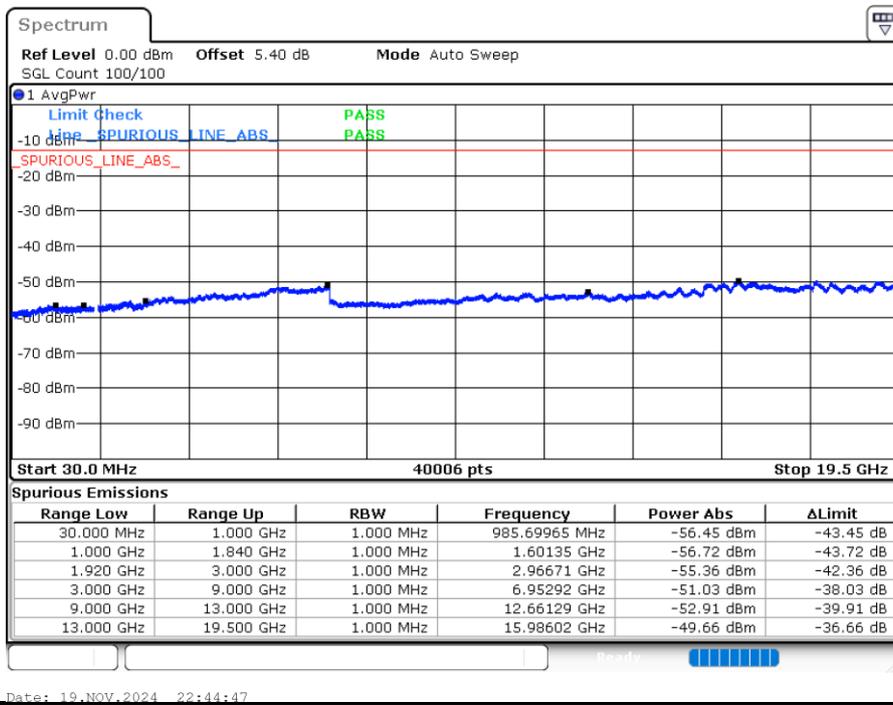
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





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	0.0015	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0049	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0071	
20	Battery End Point	0.0042	

Note:

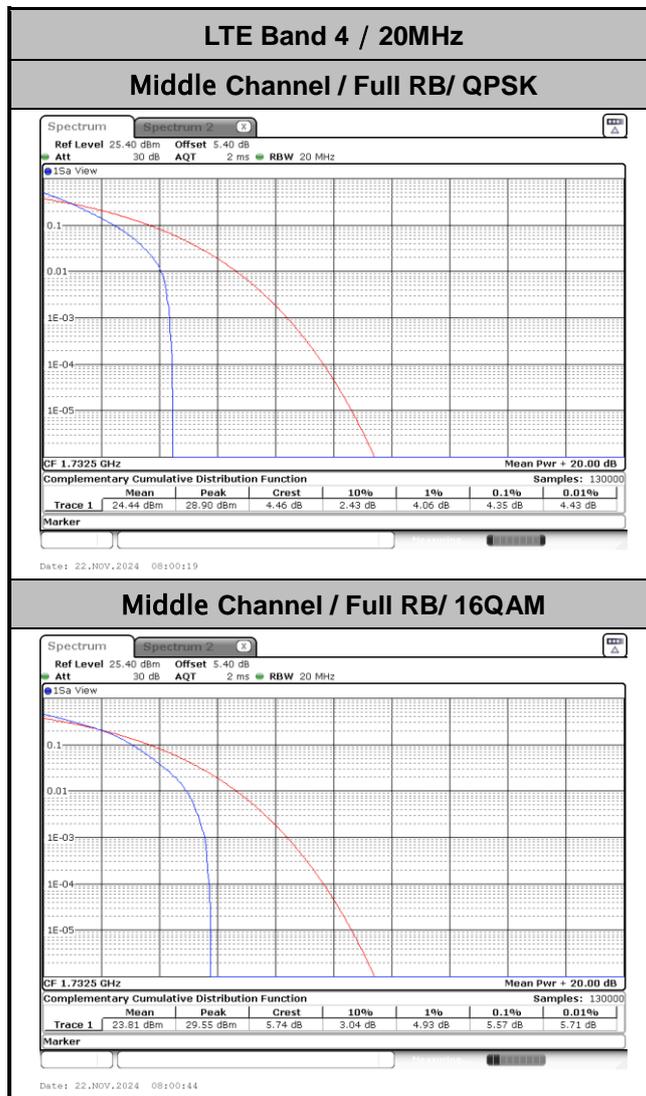
1. Normal Voltage = 3.69 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage = 4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

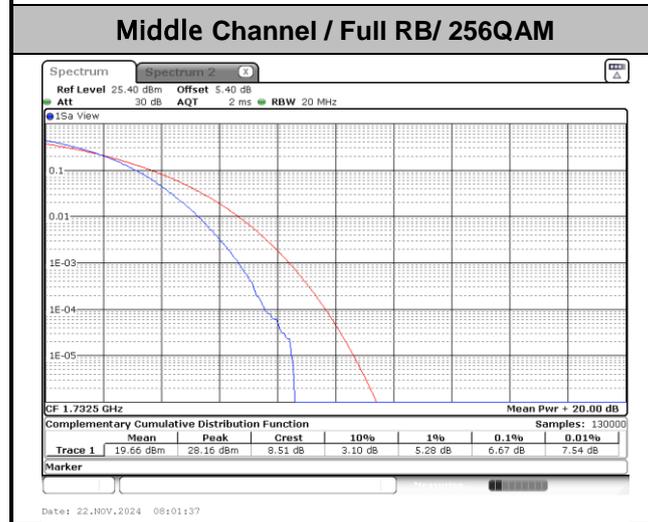
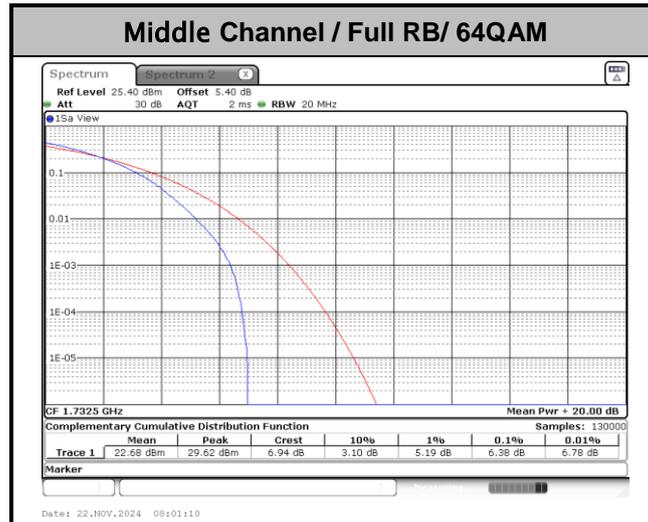


LTE Band 4(Other PA3)

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.35	5.57	6.38	6.67	PASS

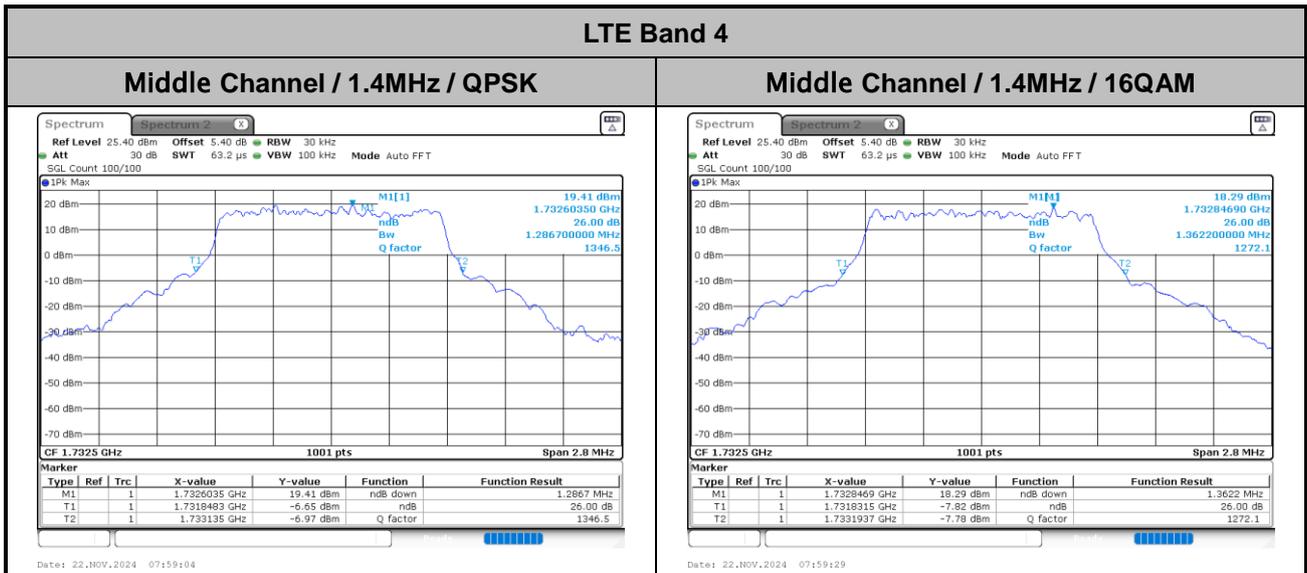






26dB Bandwidth

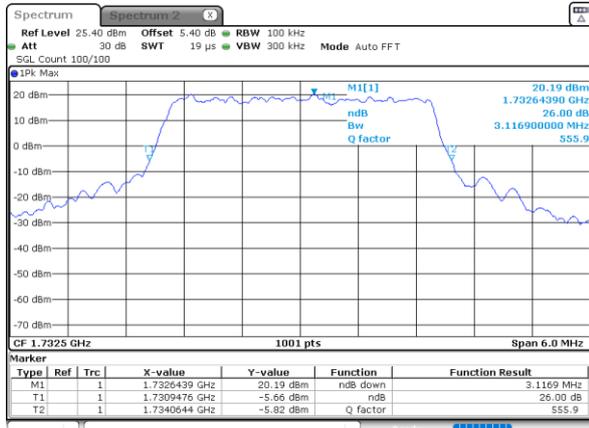
Mode	LTE Band 4 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.29	1.36
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.12	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.09	5.14
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.79	9.73
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.72	14.54
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.22	19.18





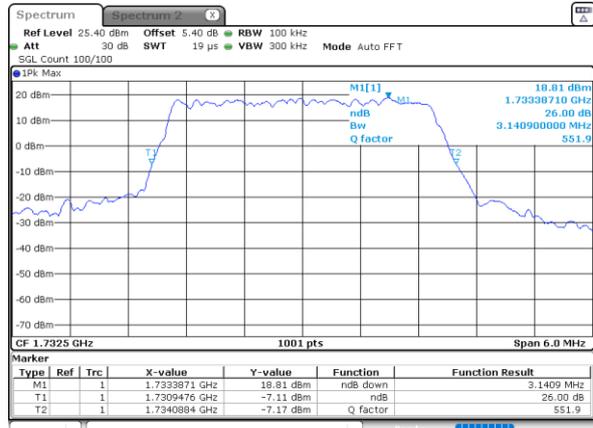
LTE Band 4

Middle Channel / 3MHz / QPSK



Date: 22.NOV.2024 07:56:56

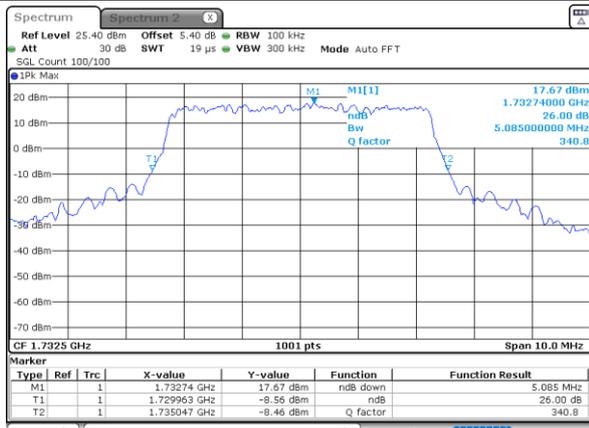
Middle Channel / 3MHz / 16QAM



Date: 22.NOV.2024 07:57:120

LTE Band 4

Middle Channel / 5MHz / QPSK



Date: 22.NOV.2024 07:55:19

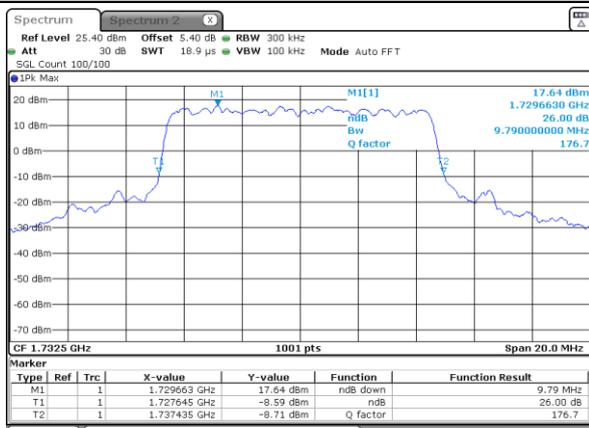
Middle Channel / 5MHz / 16QAM



Date: 22.NOV.2024 07:55:43

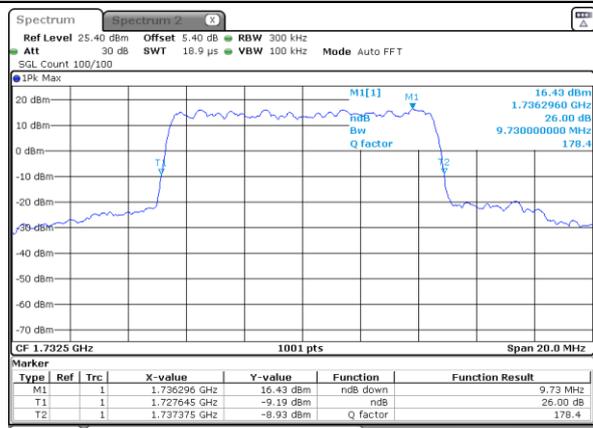
LTE Band 4

Middle Channel / 10MHz / QPSK



Date: 22.NOV.2024 07:53:42

Middle Channel / 10MHz / 16QAM

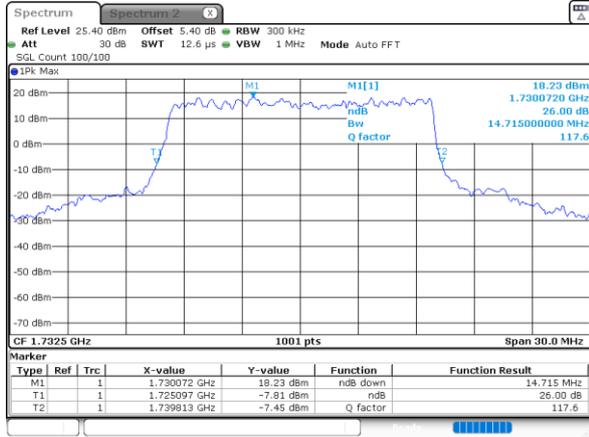


Date: 22.NOV.2024 07:54:06

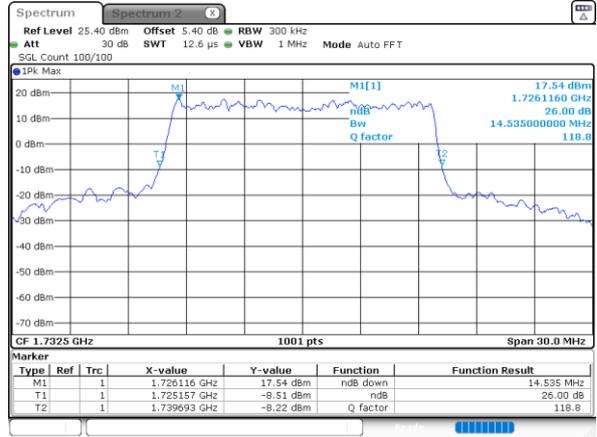


LTE Band 4

Middle Channel / 15MHz / QPSK

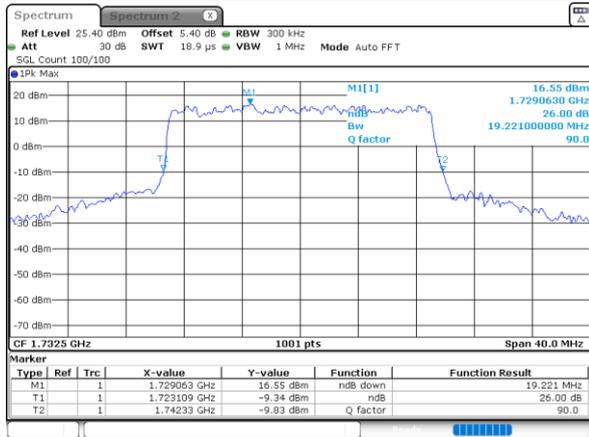


Middle Channel / 15MHz / 16QAM

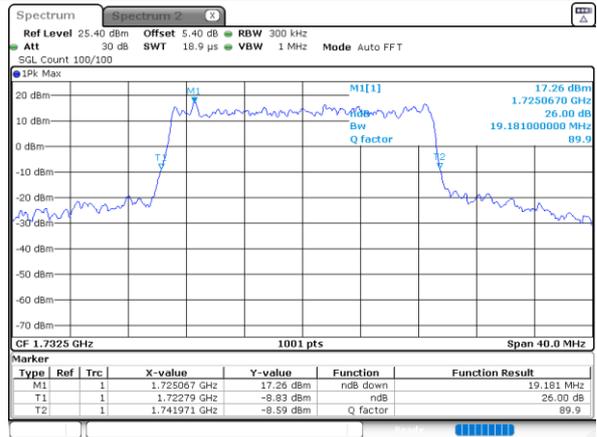


LTE Band 4

Middle Channel / 20MHz / QPSK



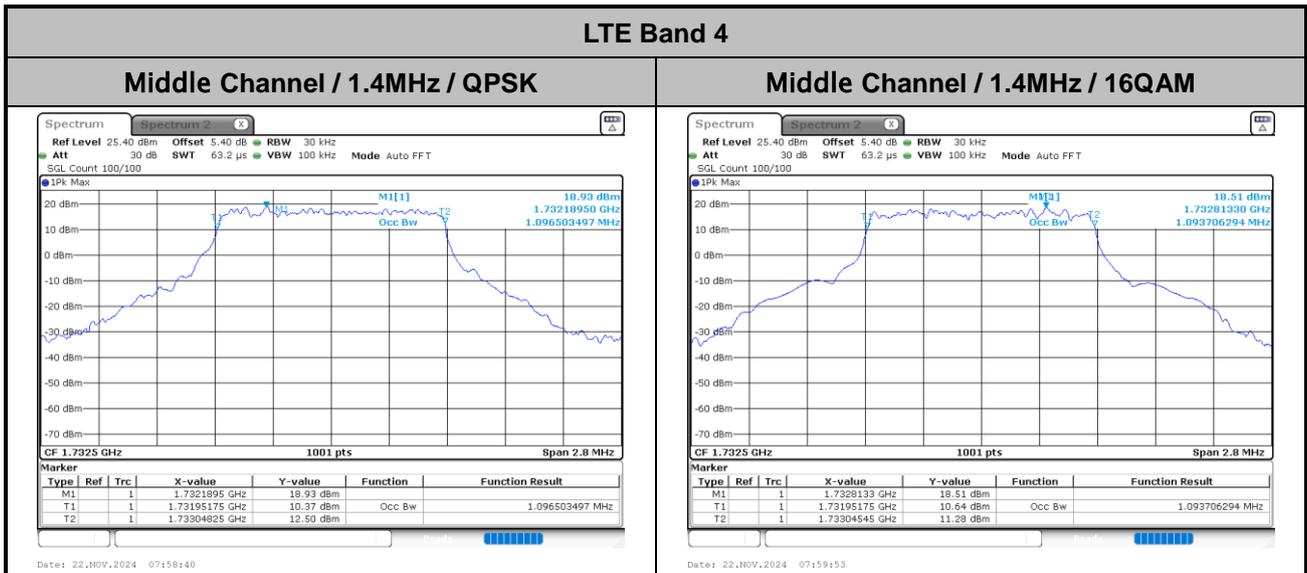
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

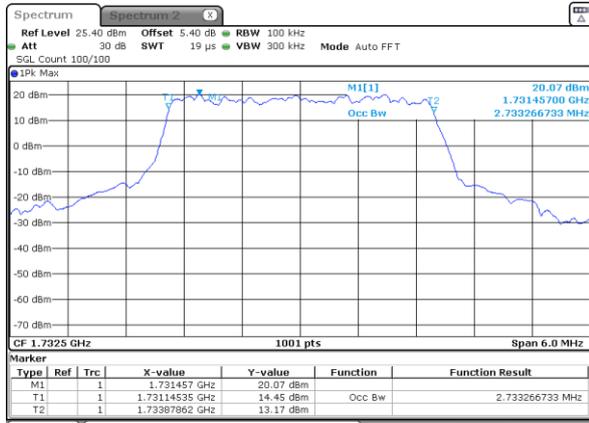
Mode	LTE Band 4 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.73	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.51	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.09
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.40	13.55
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.98





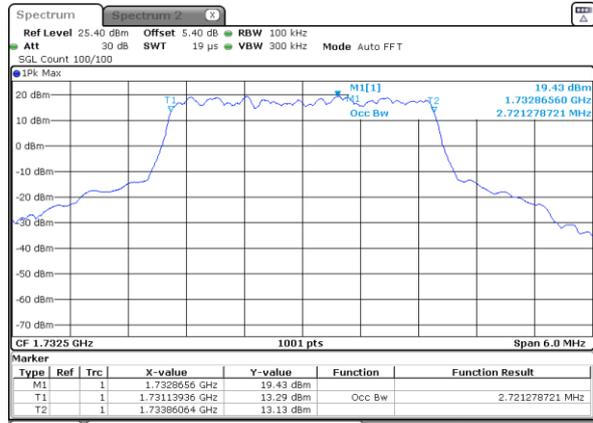
LTE Band 4

Middle Channel / 3MHz / QPSK



Date: 22.NOV.2024 07:56:32

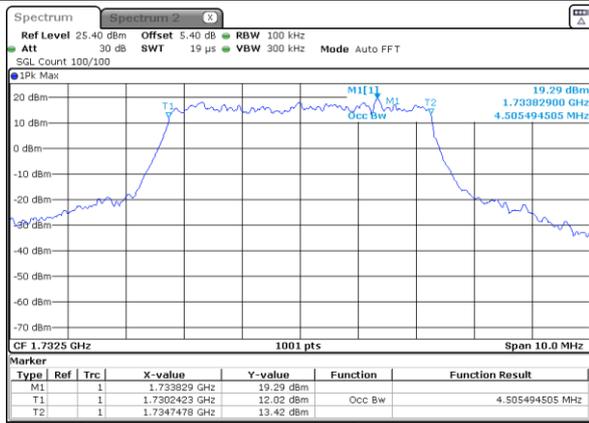
Middle Channel / 3MHz / 16QAM



Date: 22.NOV.2024 07:57:44

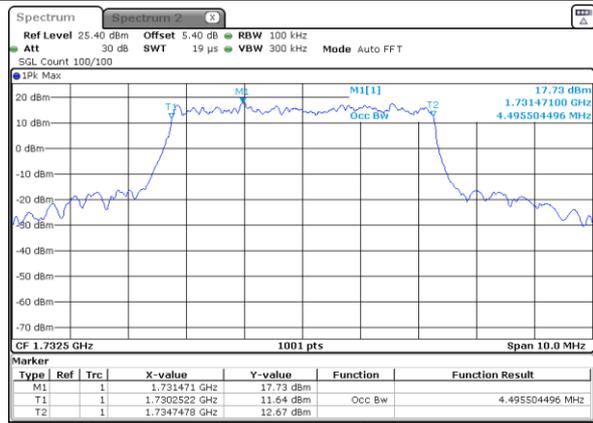
LTE Band 4

Middle Channel / 5MHz / QPSK



Date: 22.NOV.2024 07:54:55

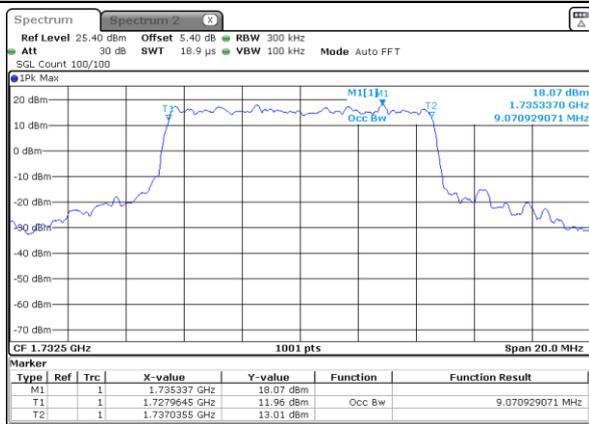
Middle Channel / 5MHz / 16QAM



Date: 22.NOV.2024 07:56:08

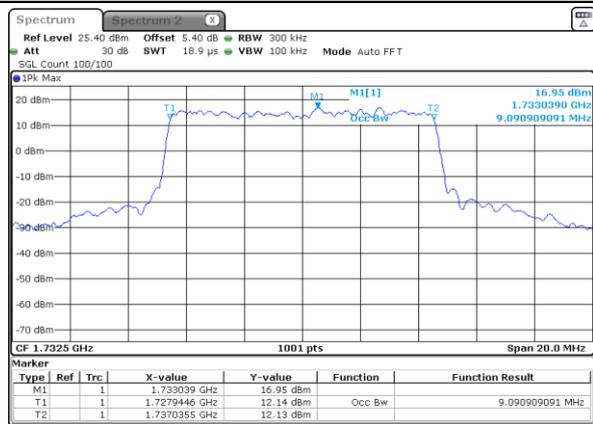
LTE Band 4

Middle Channel / 10MHz / QPSK



Date: 22.NOV.2024 07:53:18

Middle Channel / 10MHz / 16QAM

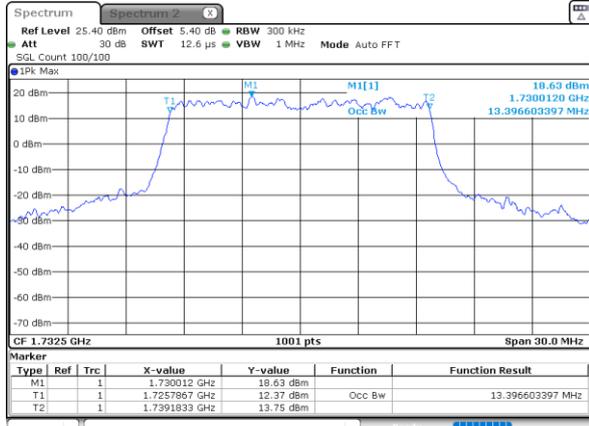


Date: 22.NOV.2024 07:54:30



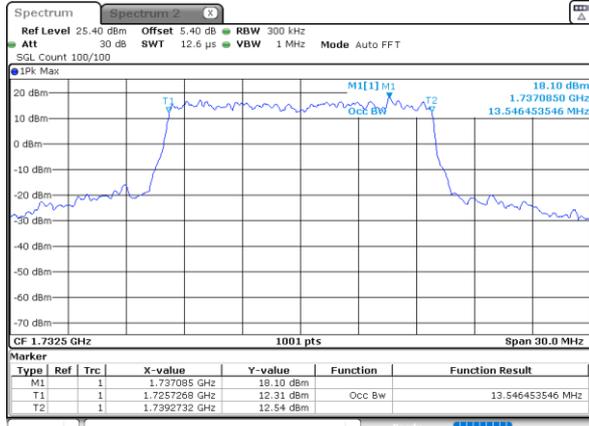
LTE Band 4

Middle Channel / 15MHz / QPSK



Date: 22.NOV.2024 07:51:41

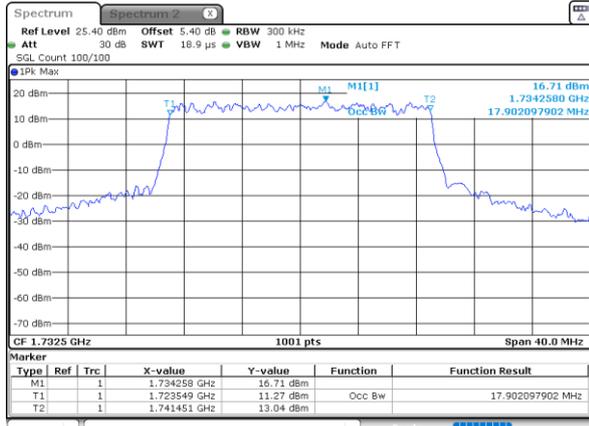
Middle Channel / 15MHz / 16QAM



Date: 22.NOV.2024 07:52:53

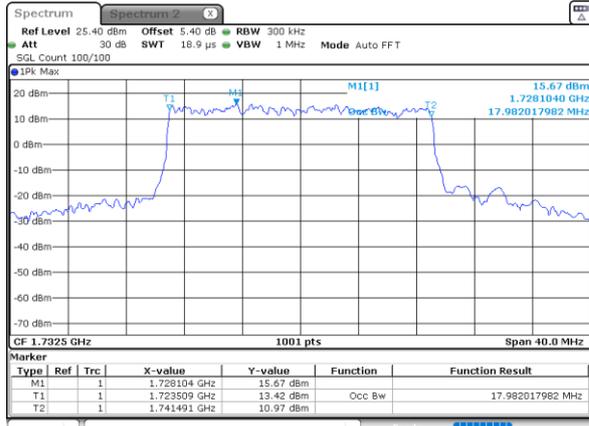
LTE Band 4

Middle Channel / 20MHz / QPSK



Date: 22.NOV.2024 07:50:28

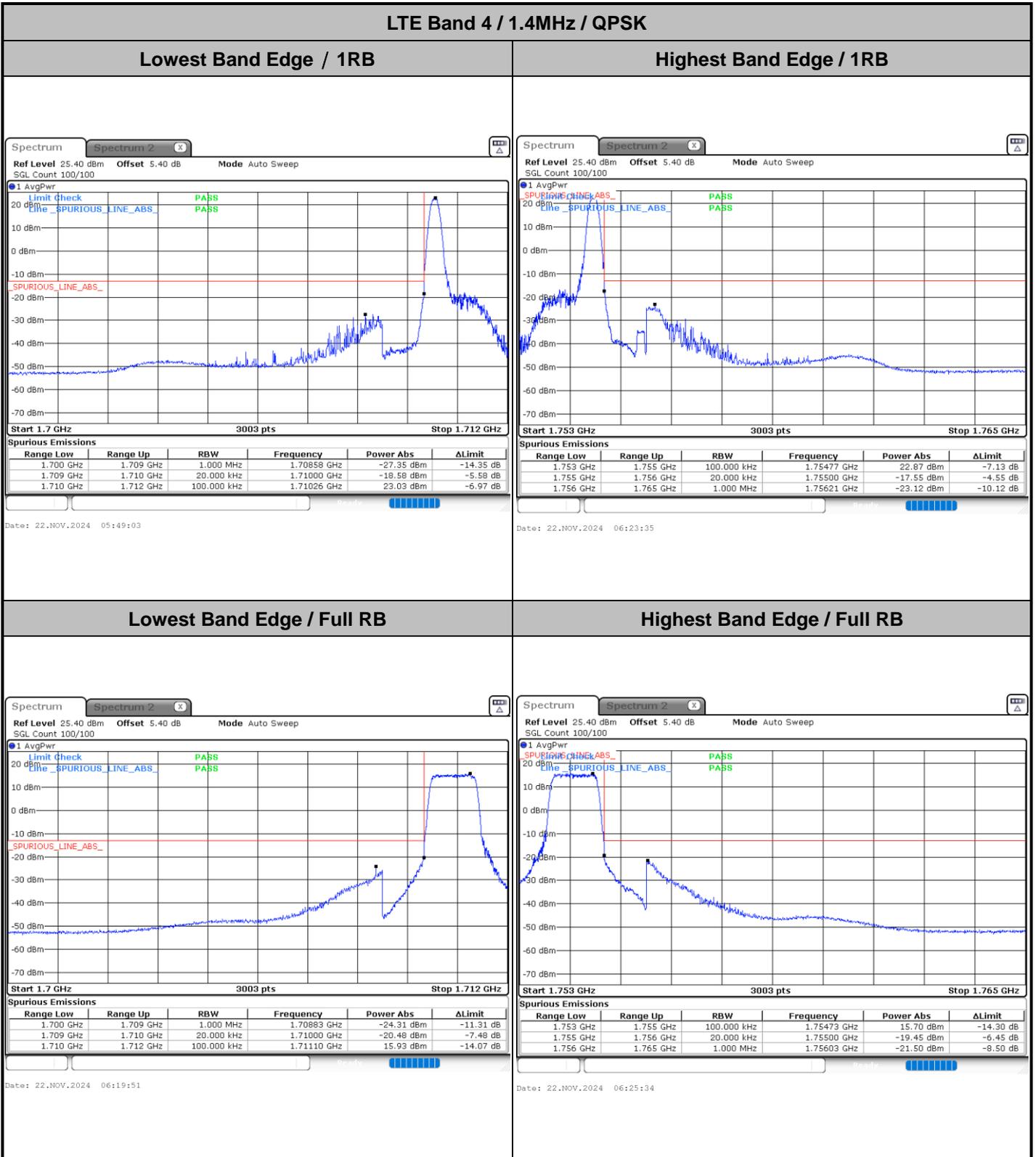
Middle Channel / 20MHz / 16QAM



Date: 22.NOV.2024 07:50:52



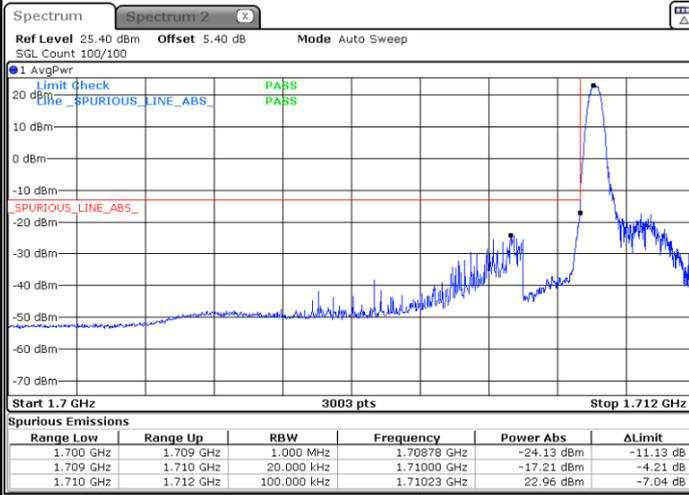
Conducted Band Edge





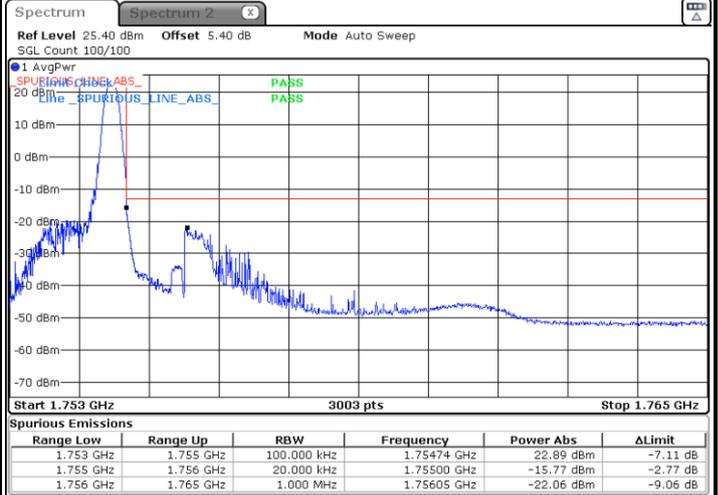
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



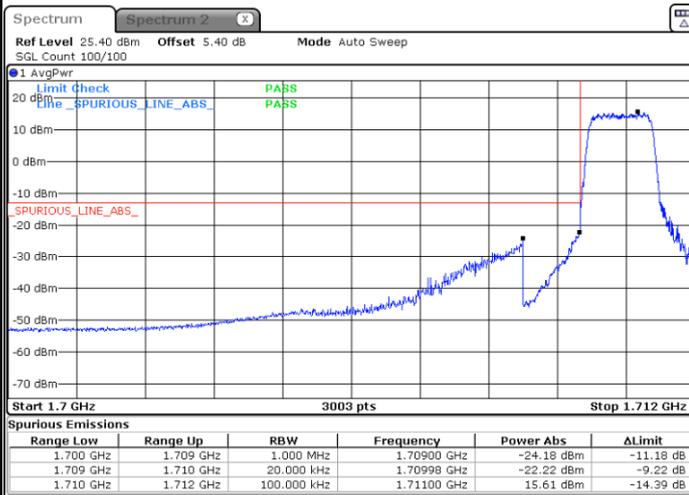
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Highest Band Edge / 1 RB



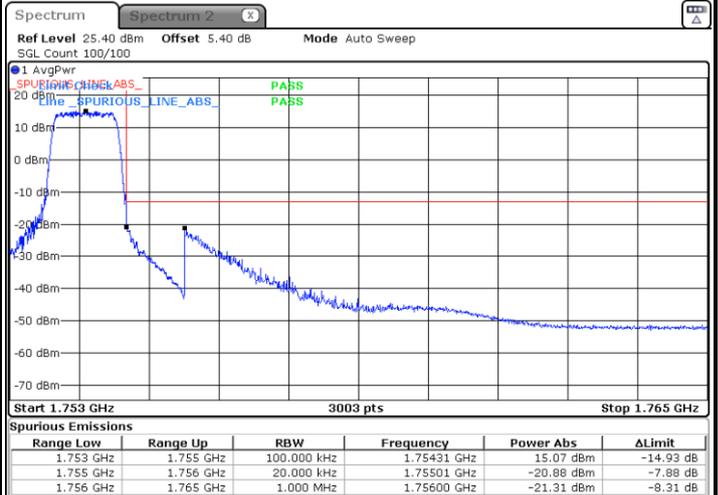
Date: 22.NOV.2024 06:24:05

Lowest Band Edge / Full RB



Date: 22.NOV.2024 06:20:21

Highest Band Edge / Full RB

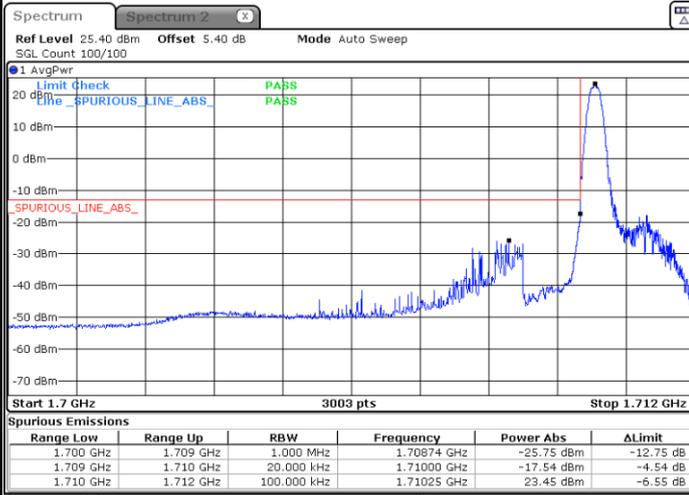


Date: 22.NOV.2024 06:26:03



LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 22.NOV.2024 05:50:09

Highest Band Edge / 1 RB



Date: 22.NOV.2024 06:24:35

Lowest Band Edge / Full RB



Date: 22.NOV.2024 06:20:50

Highest Band Edge / Full RB

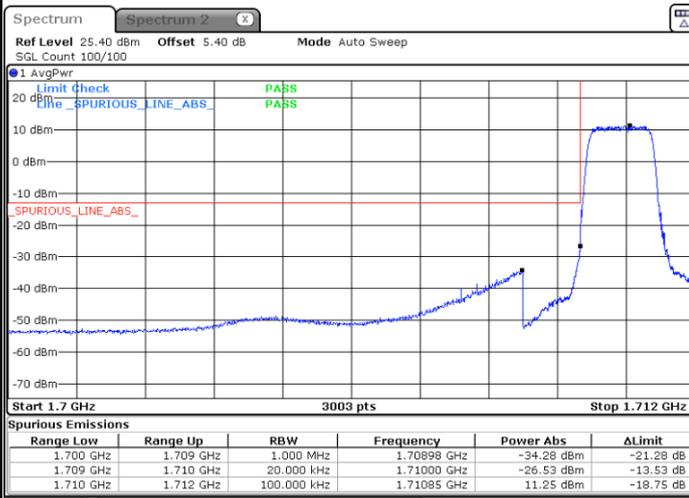


Date: 22.NOV.2024 06:26:33



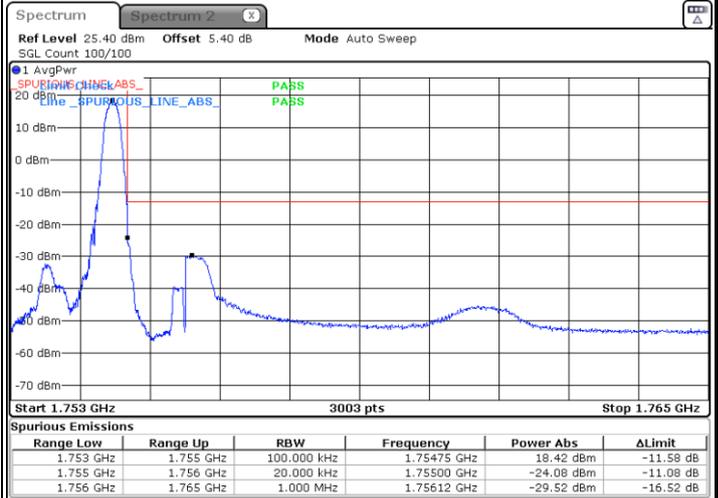
LTE Band 4 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



Date: 22.NOV.2024 06:19:21

Highest Band Edge / 1 RB



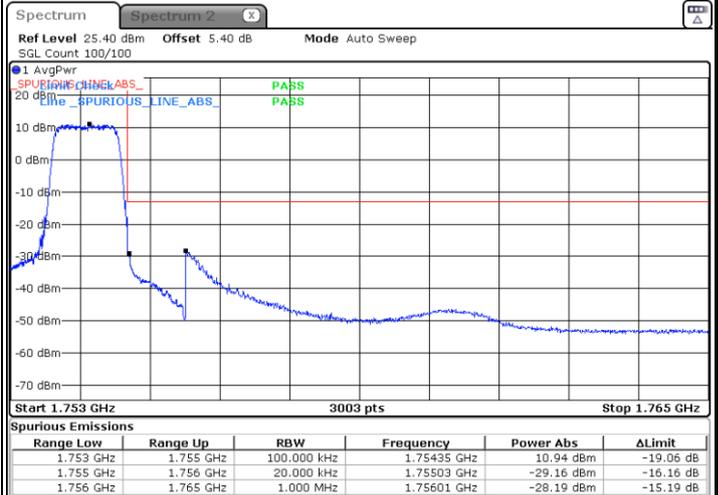
Date: 22.NOV.2024 06:25:04

Lowest Band Edge / Full RB



Date: 22.NOV.2024 06:21:20

Highest Band Edge / Full RB

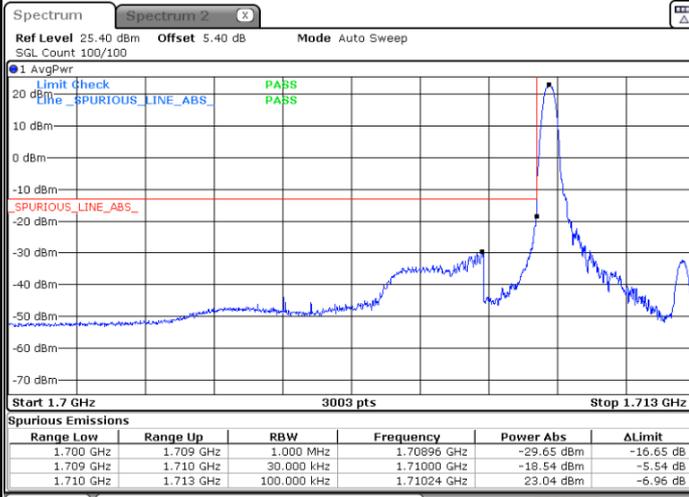


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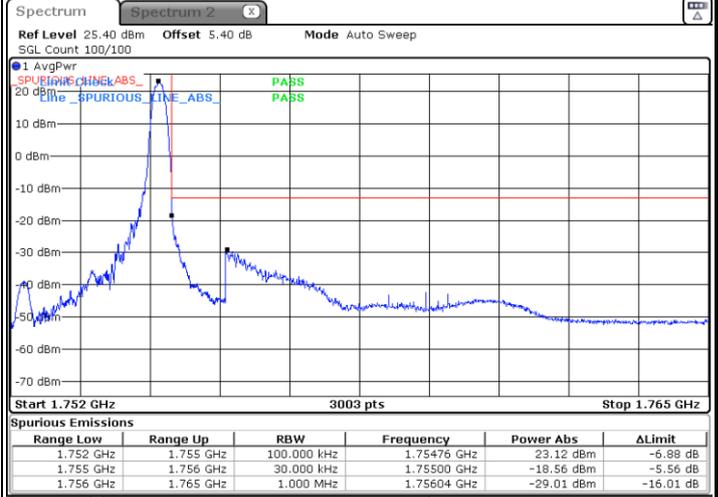


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



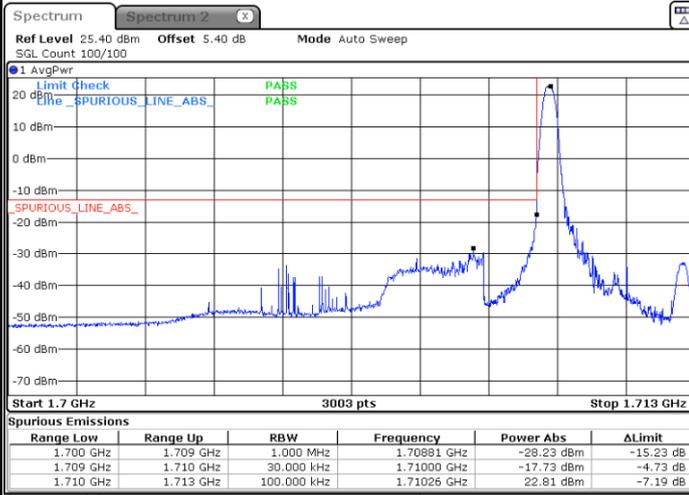
Highest Band Edge / Full RB





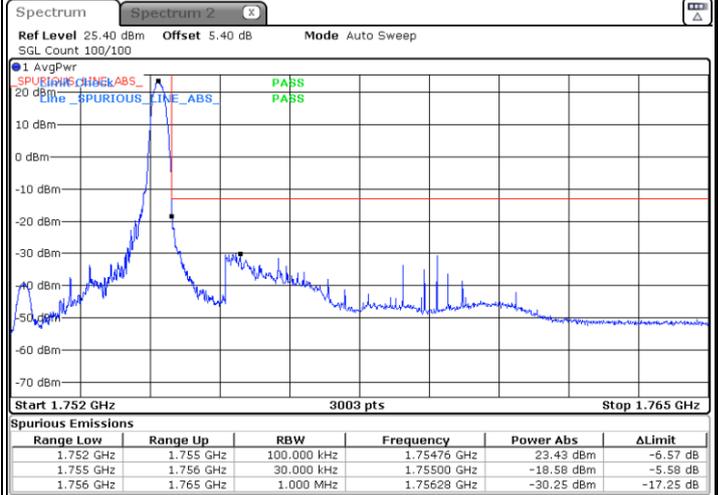
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 22.NOV.2024 06:58:59

Highest Band Edge / 1 RB



Date: 22.NOV.2024 07:04:41

Lowest Band Edge / Full RB



Date: 22.NOV.2024 07:00:57

Highest Band Edge / Full RB



Date: 22.NOV.2024 07:06:38