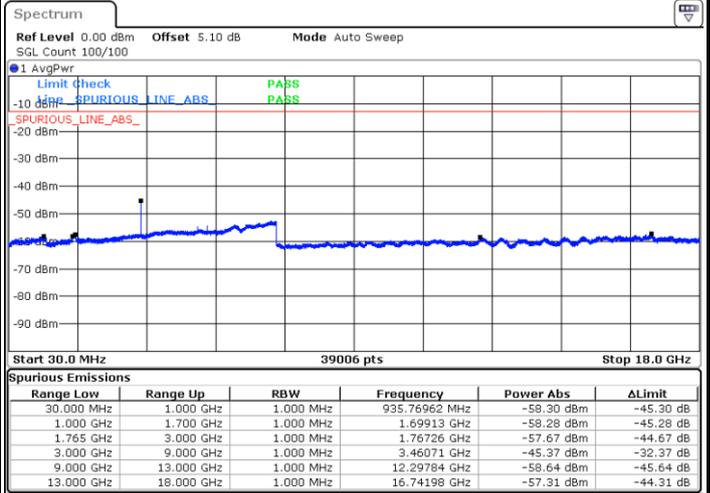
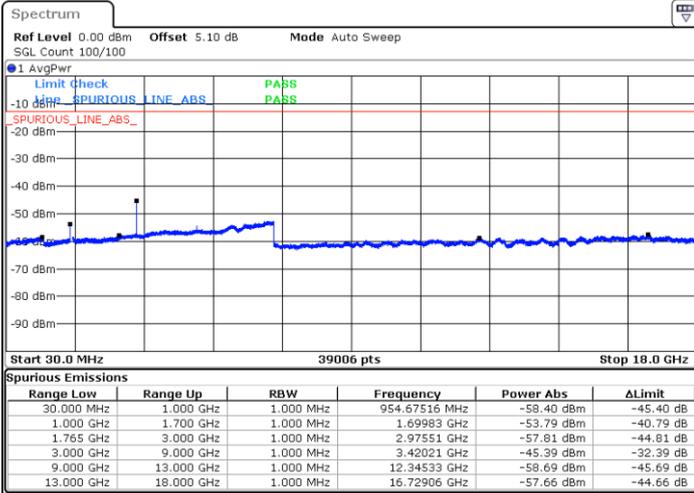




LTE Band 4 / 5MHz

Lowest Channel / QPSK

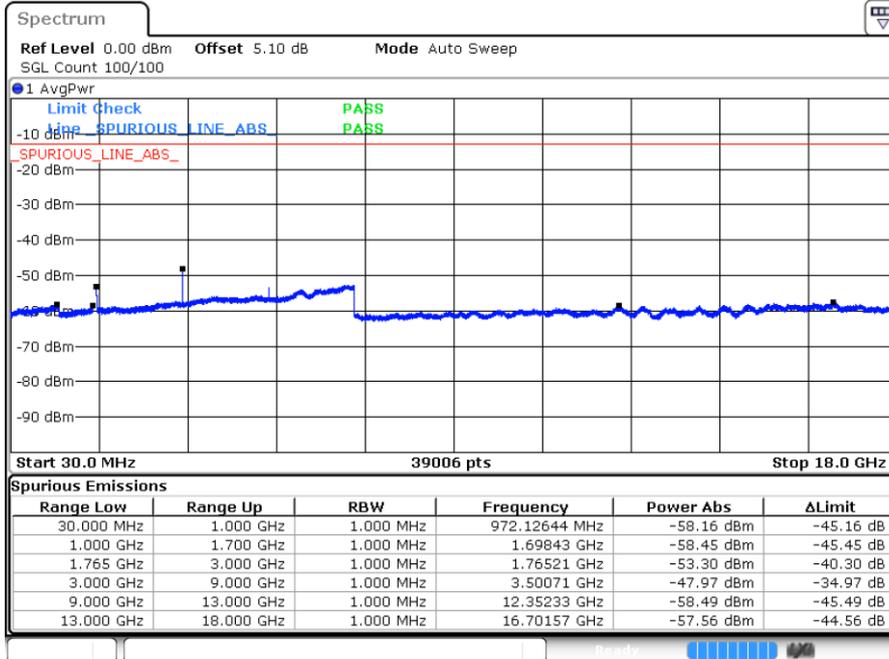
Middle Channel / QPSK



Date: 22.DEC.2021 03:32:16

Date: 22.DEC.2021 03:38:48

Highest Channel / QPSK



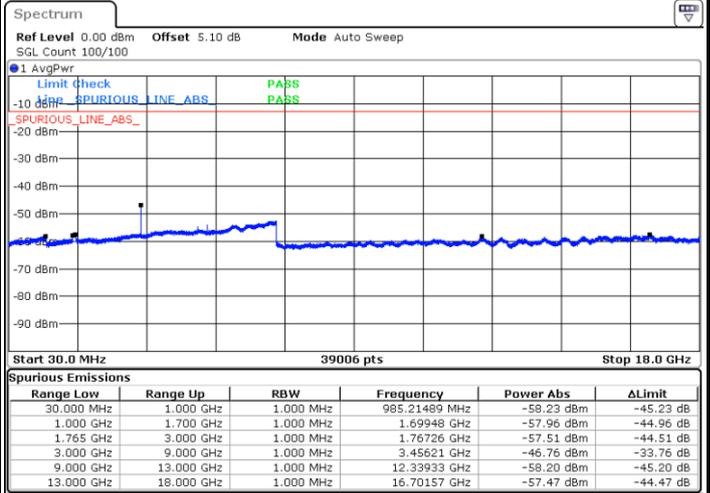
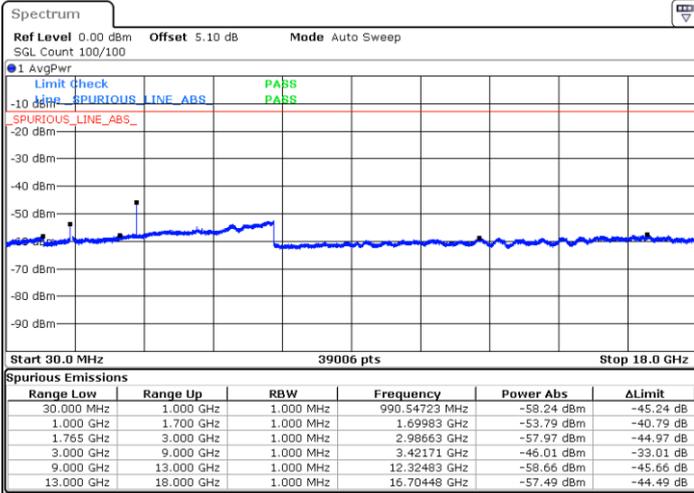
Date: 22.DEC.2021 03:39:53



LTE Band 4 / 10MHz

Lowest Channel / QPSK

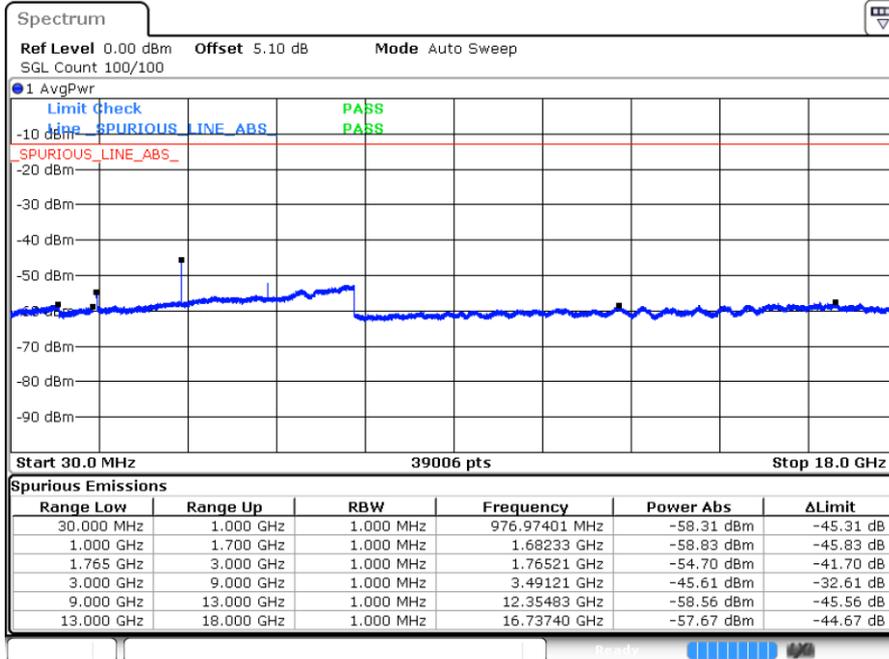
Middle Channel / QPSK



Date: 22.DEC.2021 03:46:37

Date: 22.DEC.2021 04:00:33

Highest Channel / QPSK



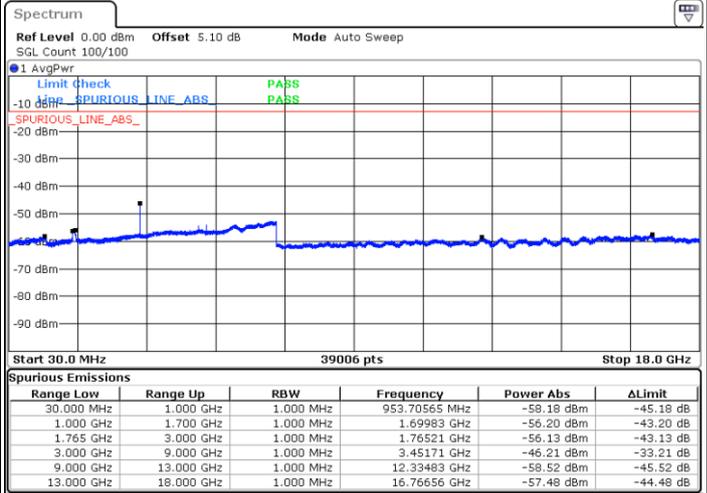
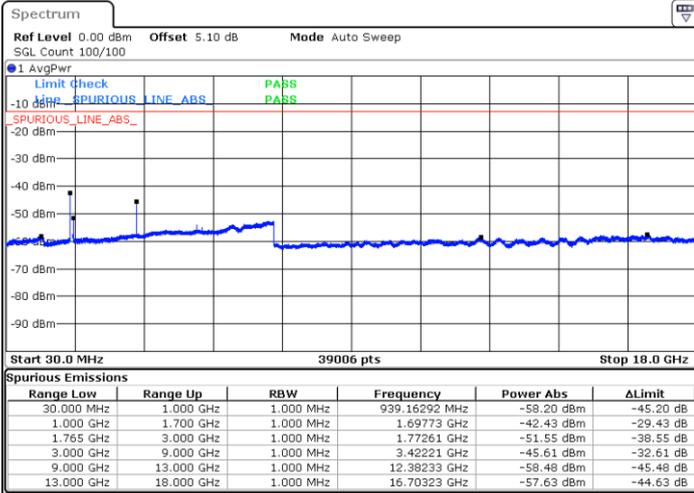
Date: 22.DEC.2021 04:01:38



LTE Band 4 / 15MHz

Lowest Channel / QPSK

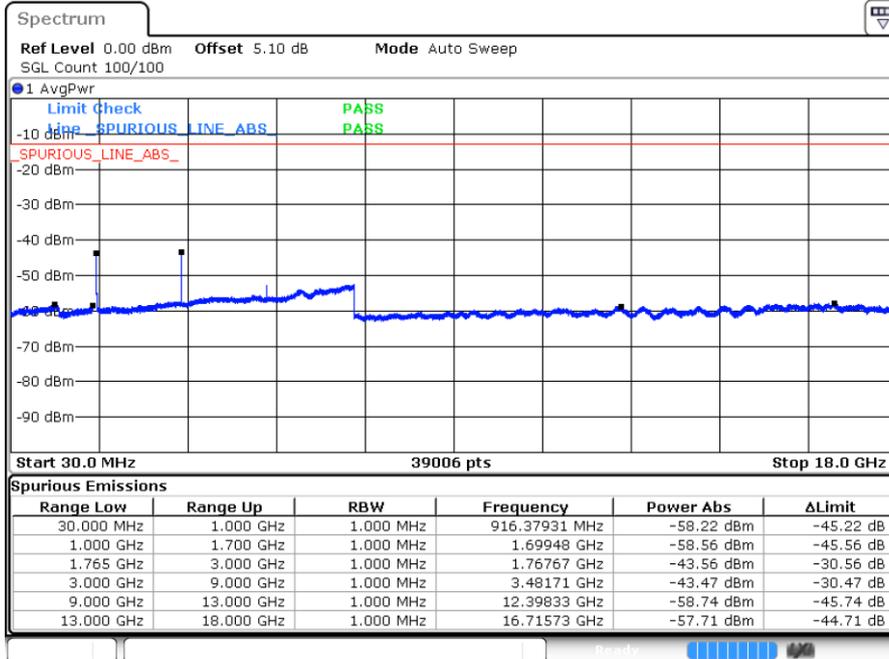
Middle Channel / QPSK



Date: 22.DEC.2021 04:06:42

Date: 22.DEC.2021 04:12:43

Highest Channel / QPSK



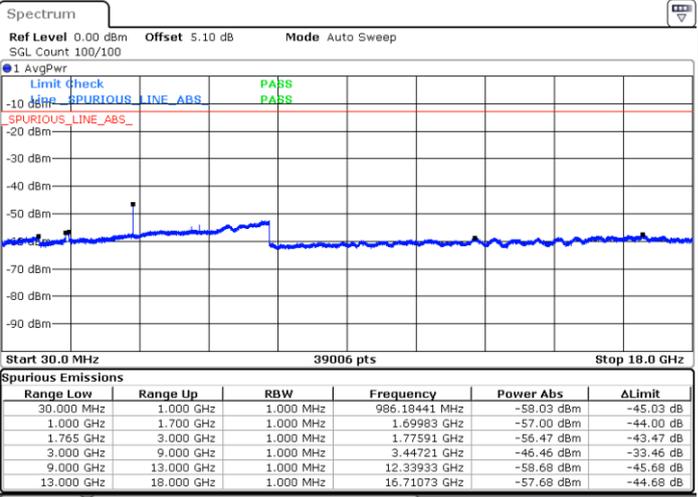
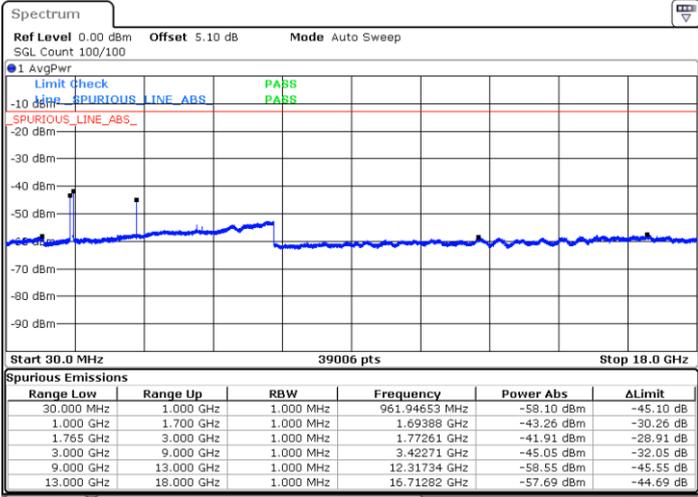
Date: 22.DEC.2021 04:13:47



LTE Band 4 / 20MHz

Lowest Channel / QPSK

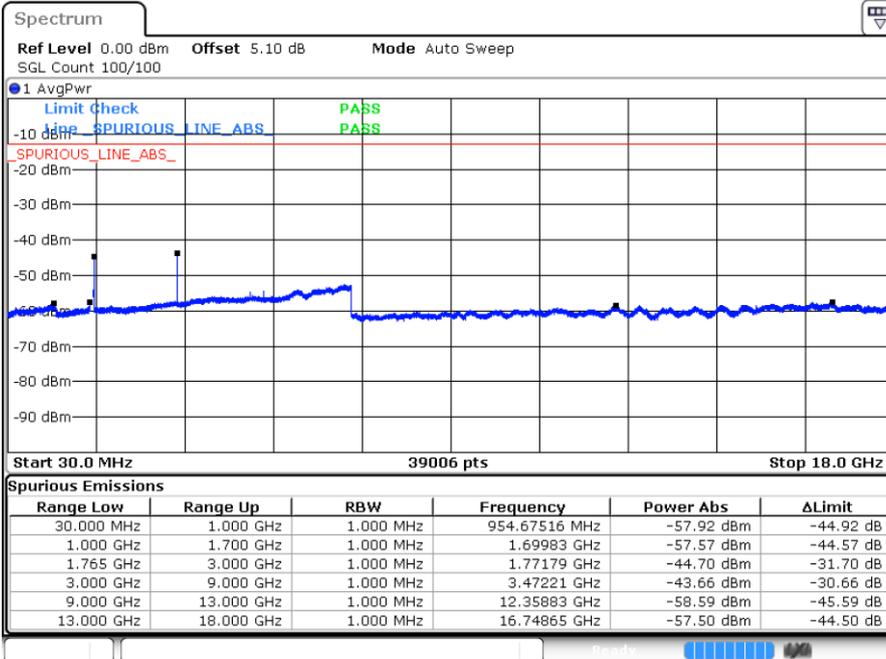
Middle Channel / QPSK



Date: 22.DEC.2021 04:20:00

Date: 22.DEC.2021 04:26:09

Highest Channel / QPSK



Date: 22.DEC.2021 04:27:14



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	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0003	

Note:

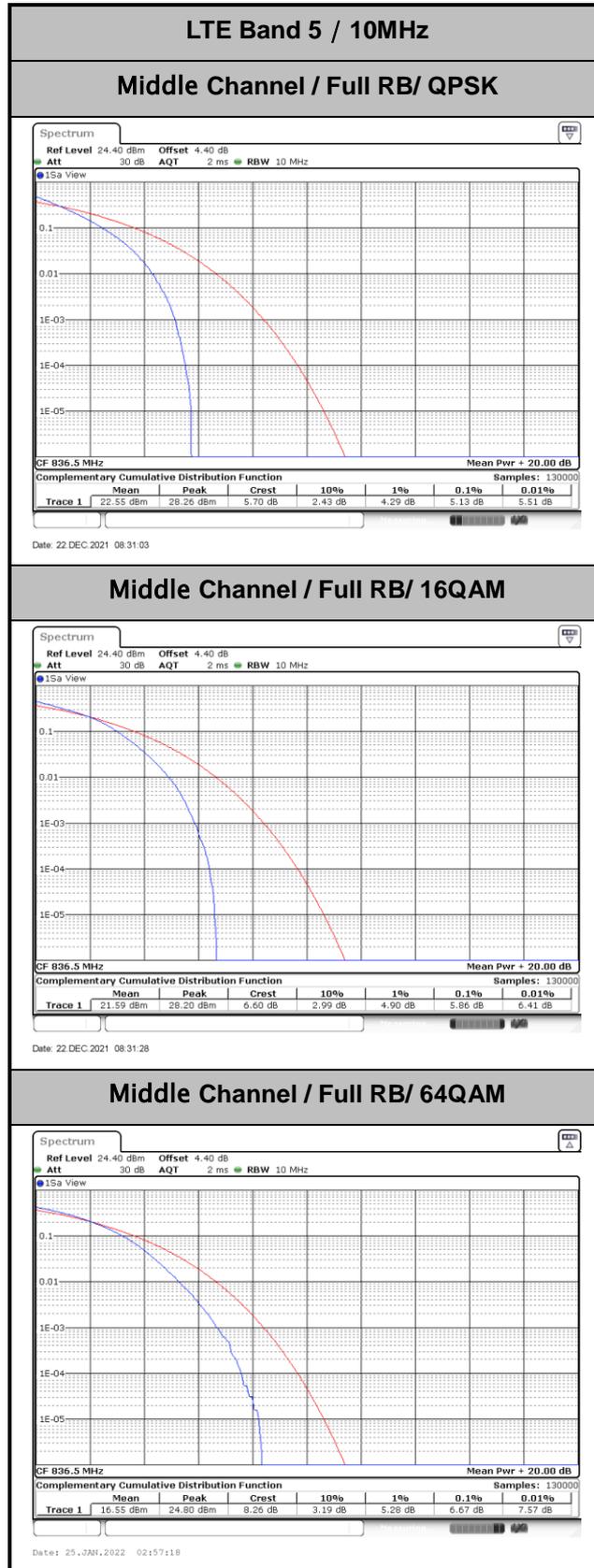
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

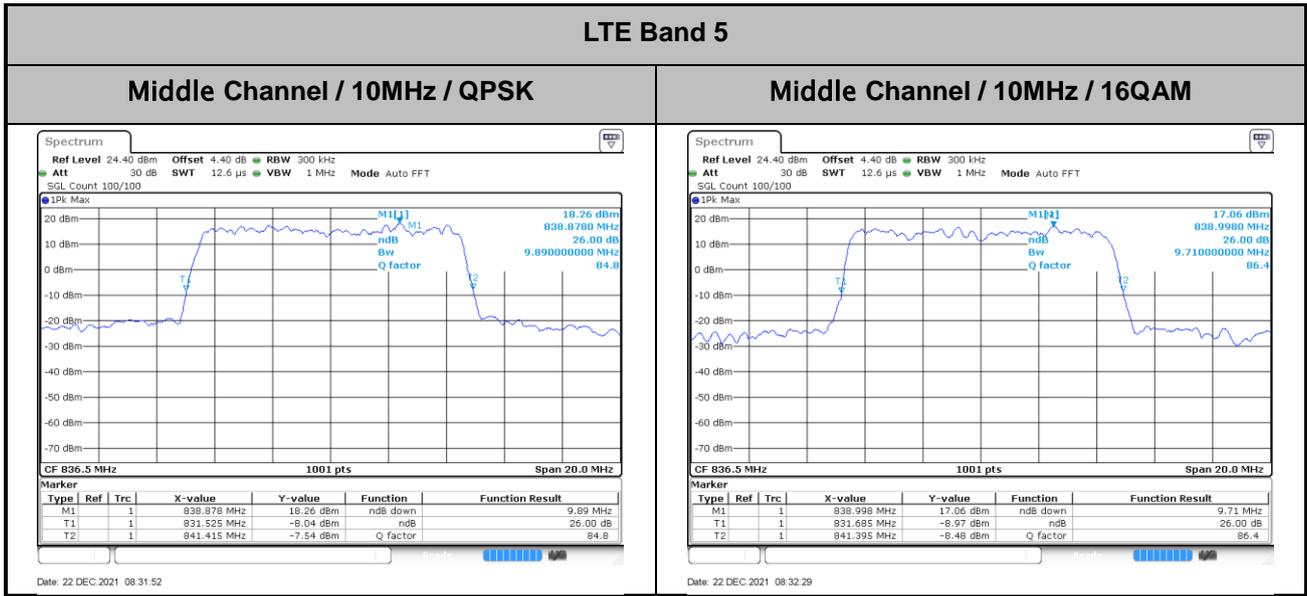
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.13	5.86	6.67	PASS





26dB Bandwidth

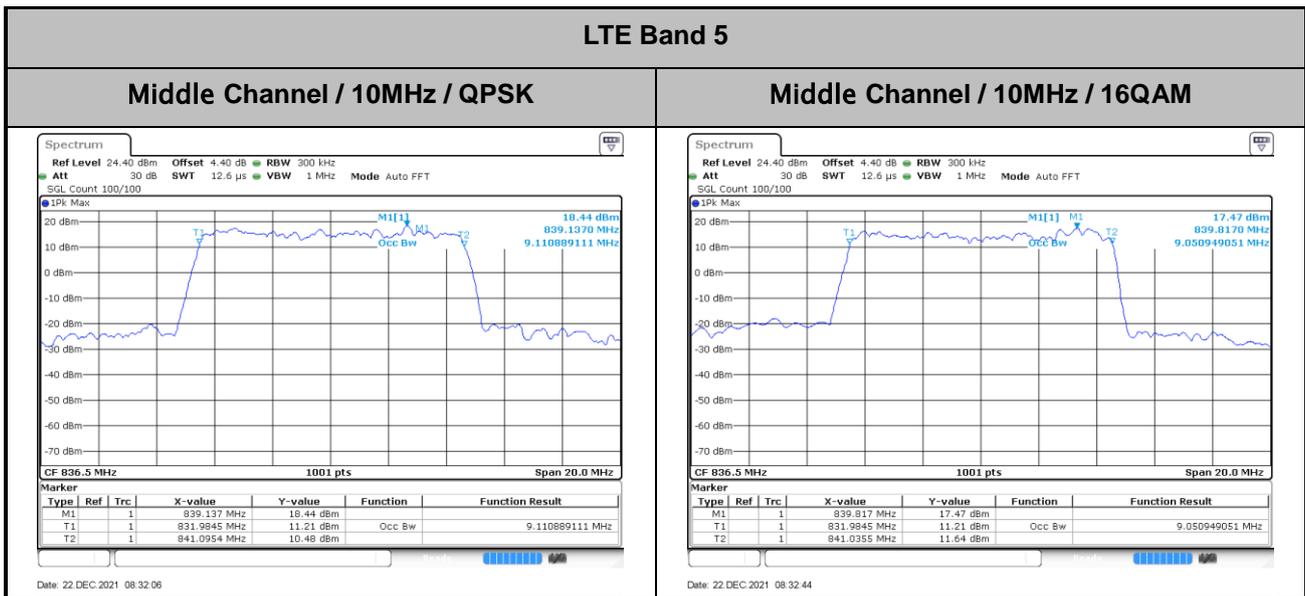
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.71





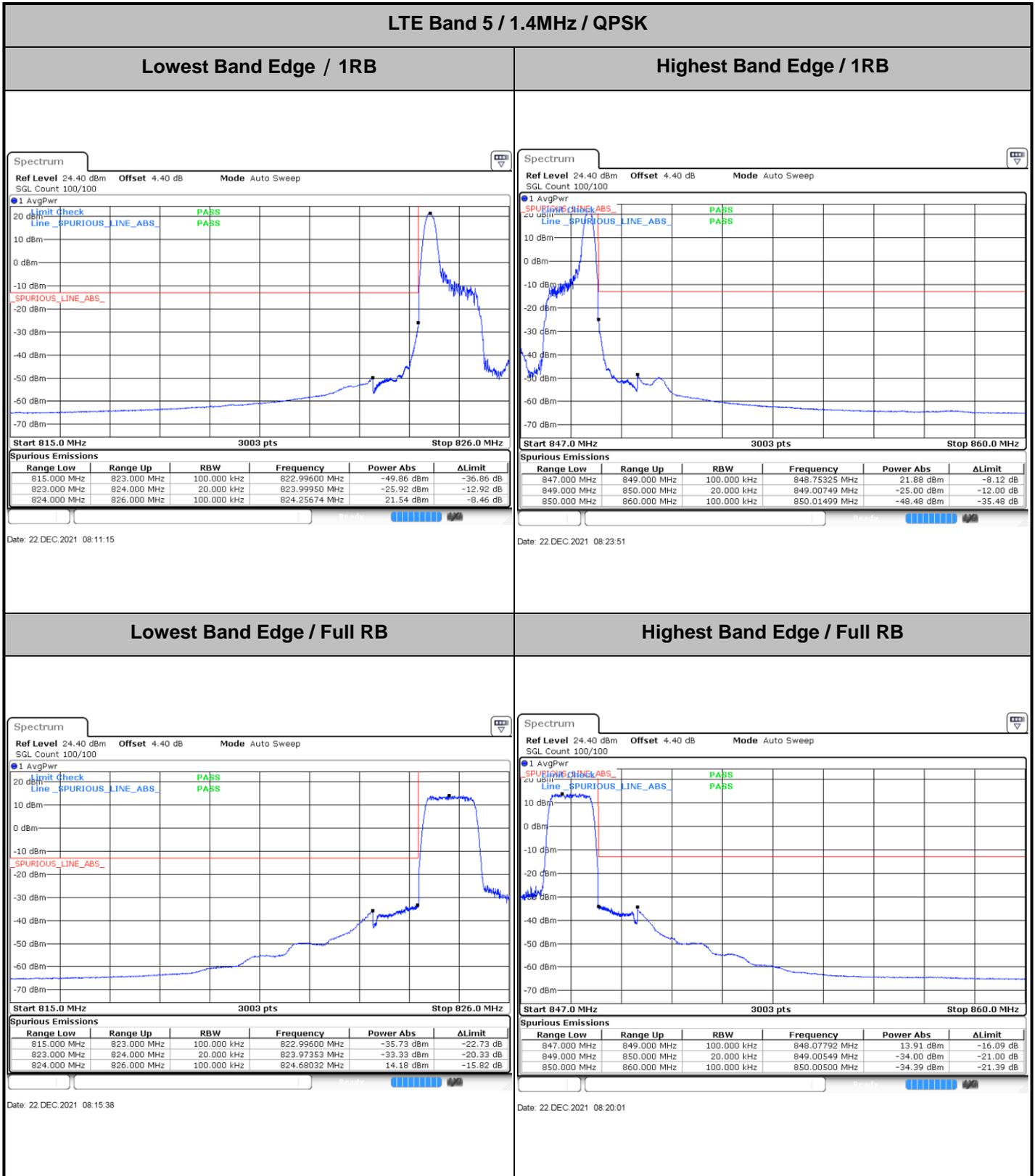
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.11	9.05





Conducted Band Edge

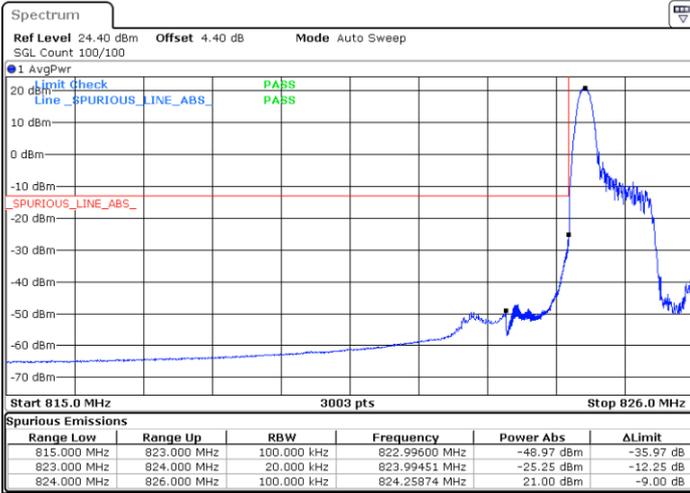




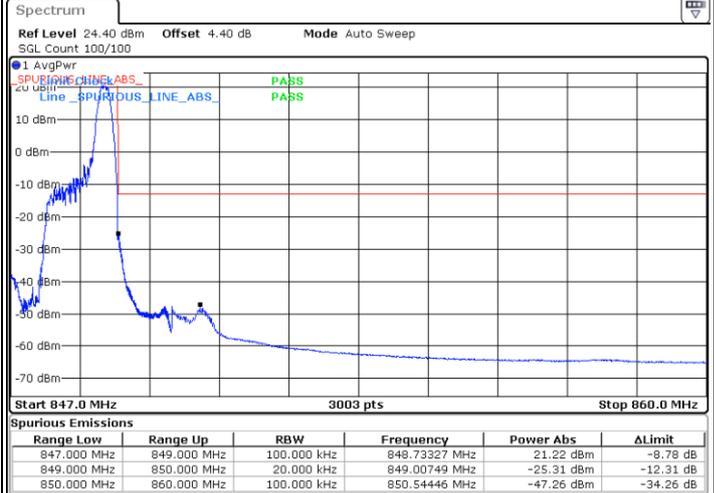
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



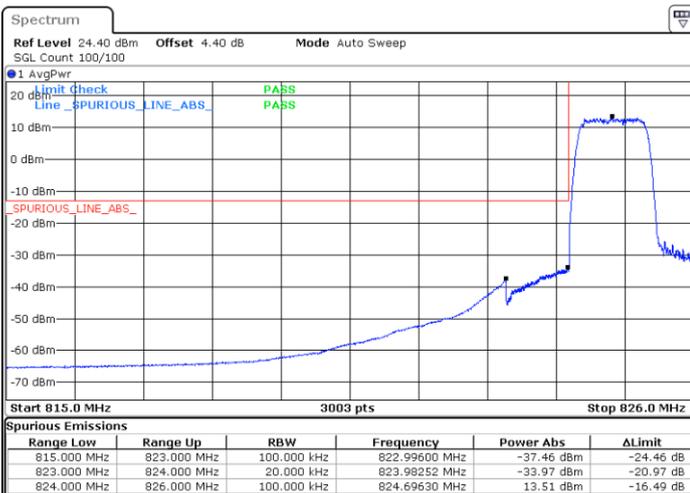
Date: 22.DEC.2021 08:13:09



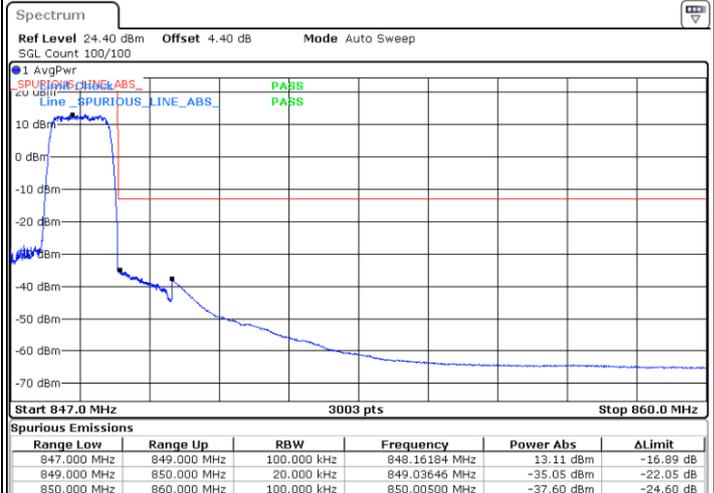
Date: 22.DEC.2021 08:25:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.DEC.2021 08:17:33



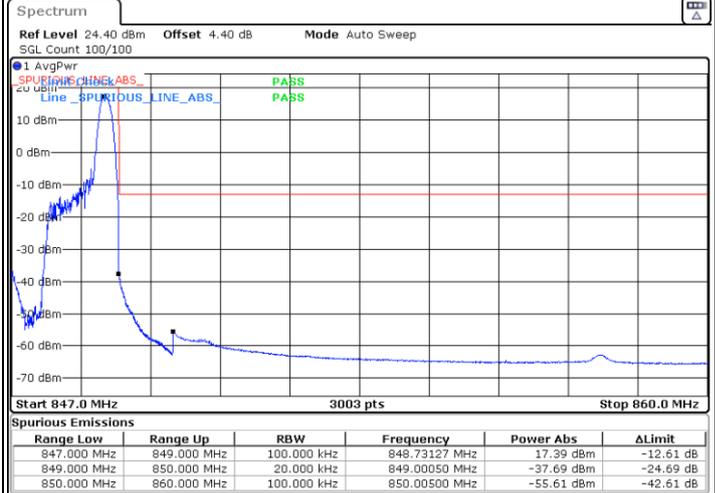
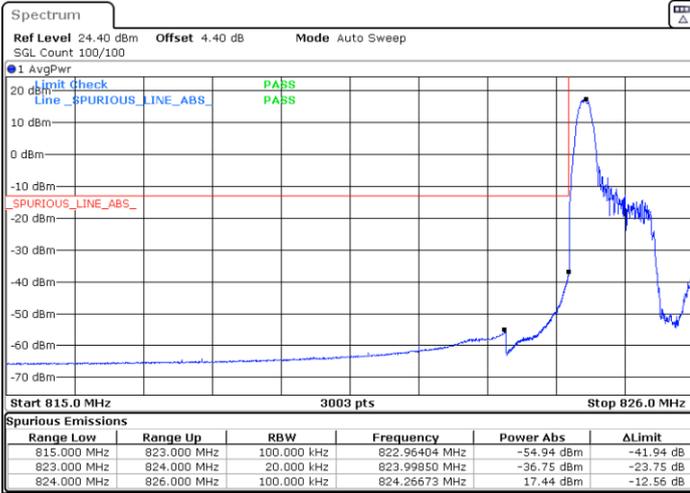
Date: 22.DEC.2021 08:21:56



LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

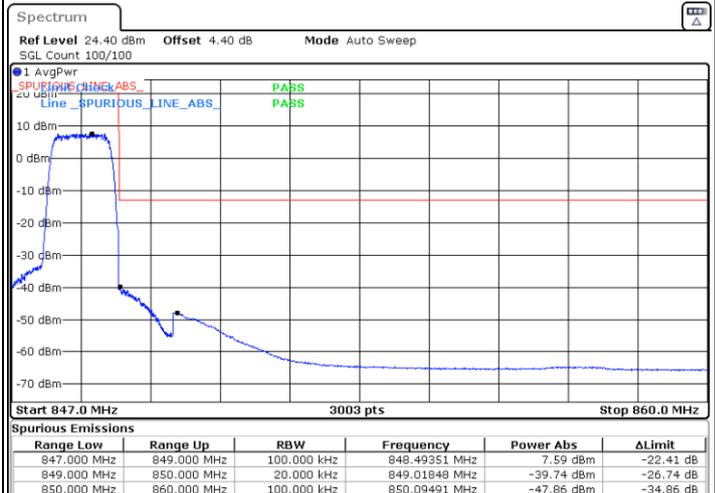
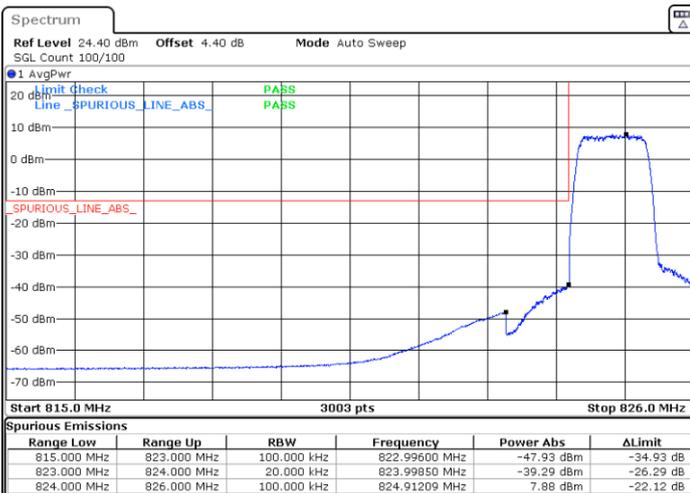


Date: 25.JAN.2022 03:11:07

Date: 25.JAN.2022 03:17:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.JAN.2022 03:13:22

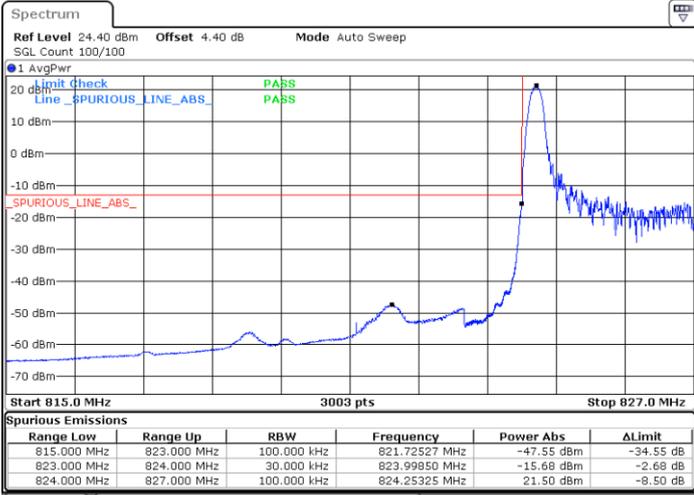
Date: 25.JAN.2022 03:16:11



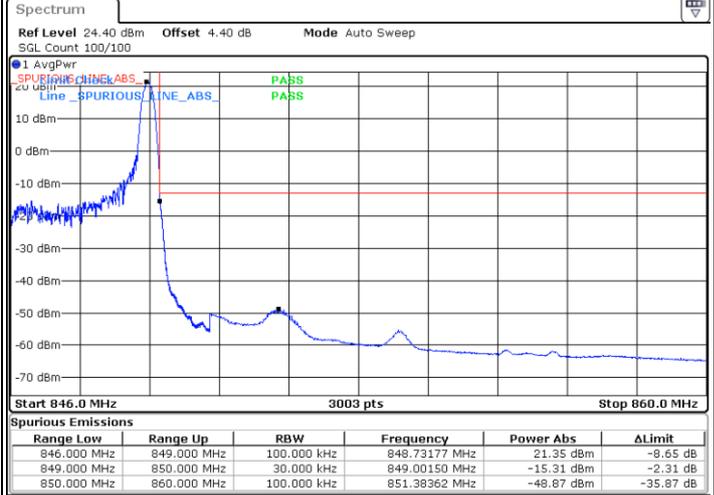
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



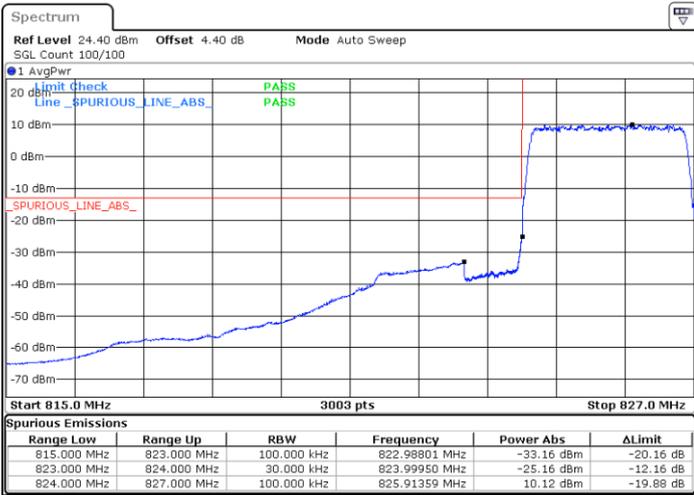
Date: 22 DEC 2021 04:59:18



Date: 22 DEC 2021 05:07:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 DEC 2021 05:03:41



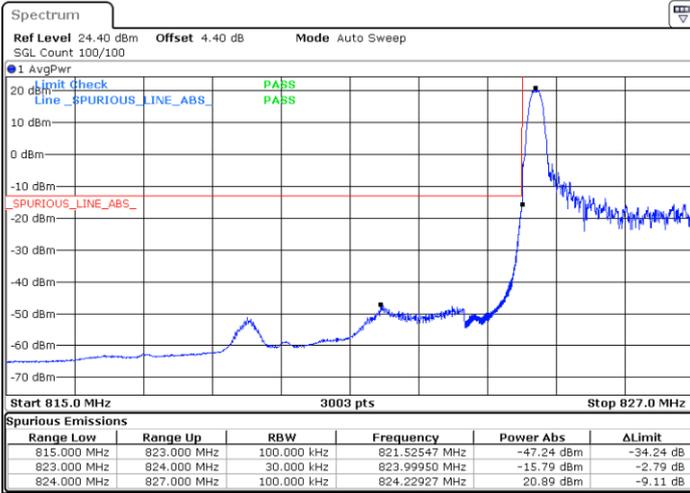
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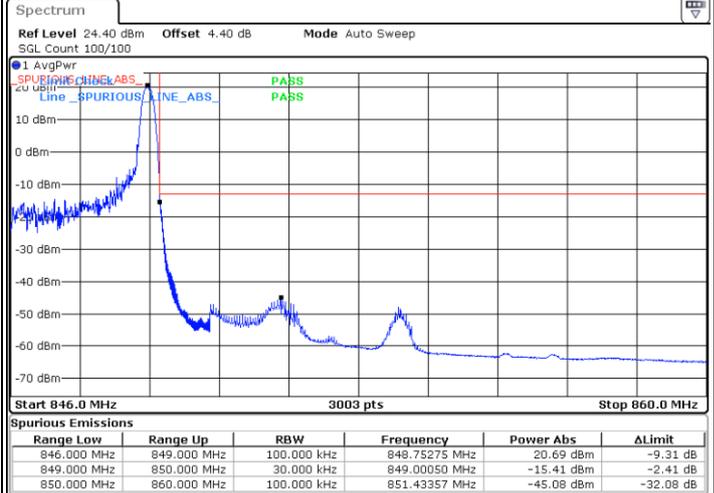
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



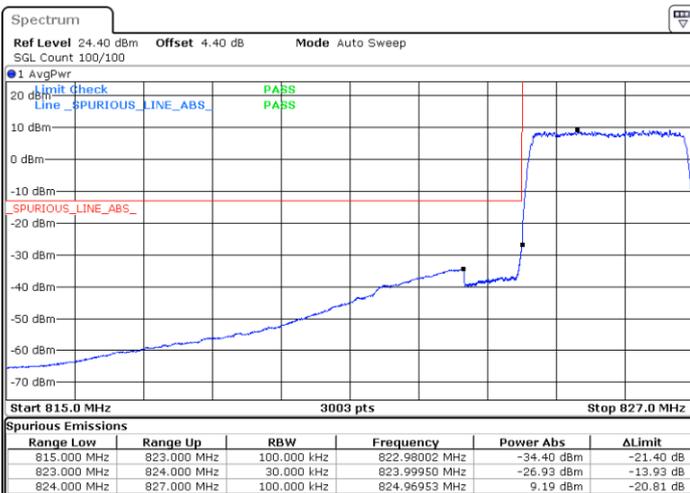
Date: 22.DEC.2021 05:01:47



Date: 22.DEC.2021 05:09:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.DEC.2021 05:05:36



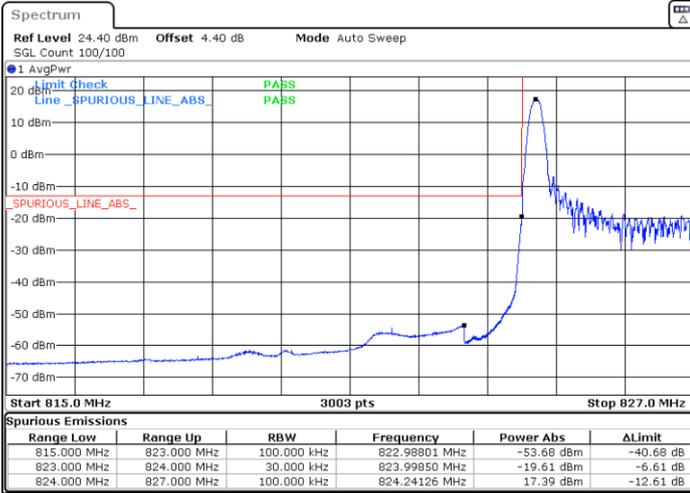
Date: 22.DEC.2021 05:13:49



LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

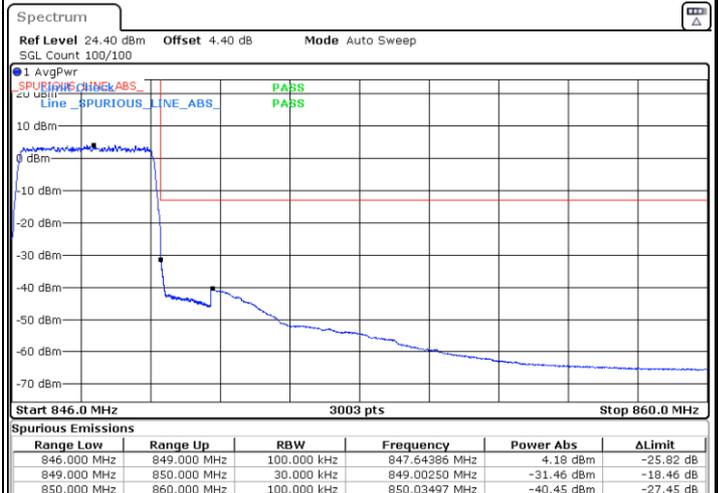


Date: 25.JAN.2022 03:03:47

Date: 25.JAN.2022 03:07:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.JAN.2022 03:04:59

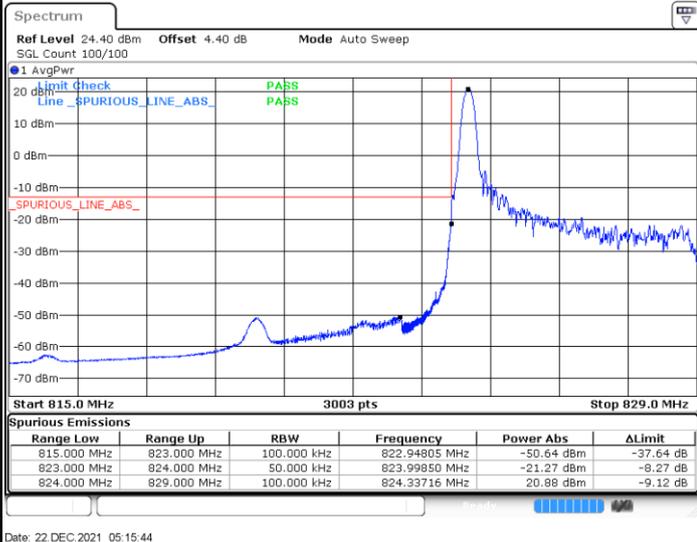
Date: 25.JAN.2022 03:06:12



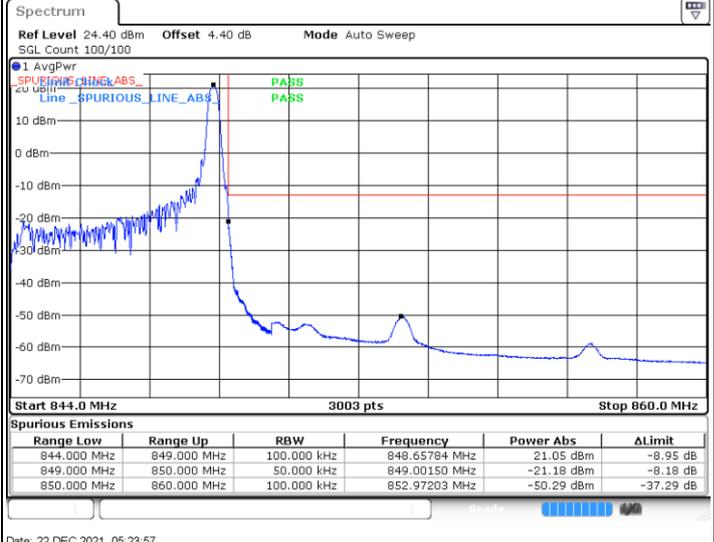
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



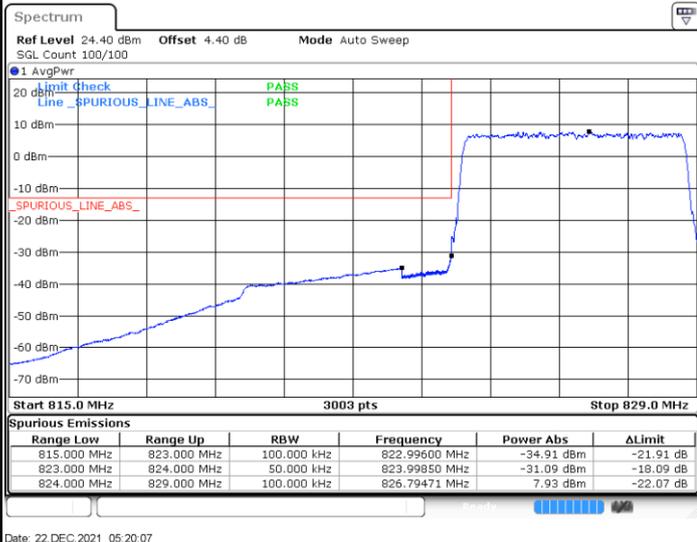
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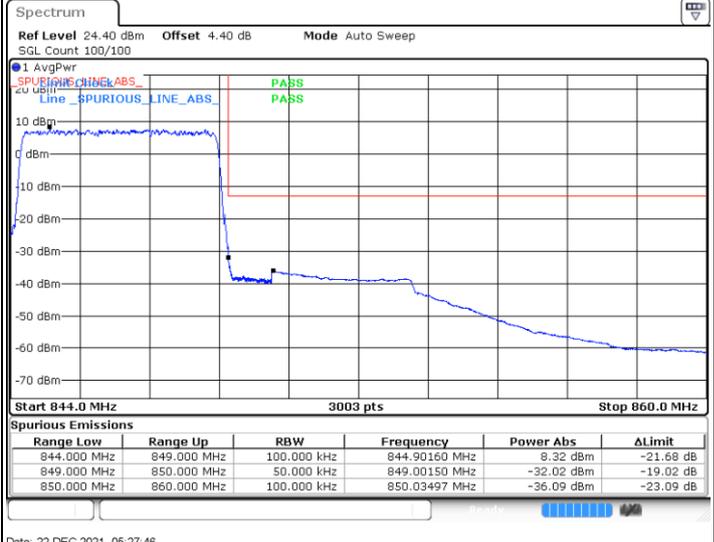
Date: 22 DEC 2021 05:23:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 DEC 2021 05:20:07

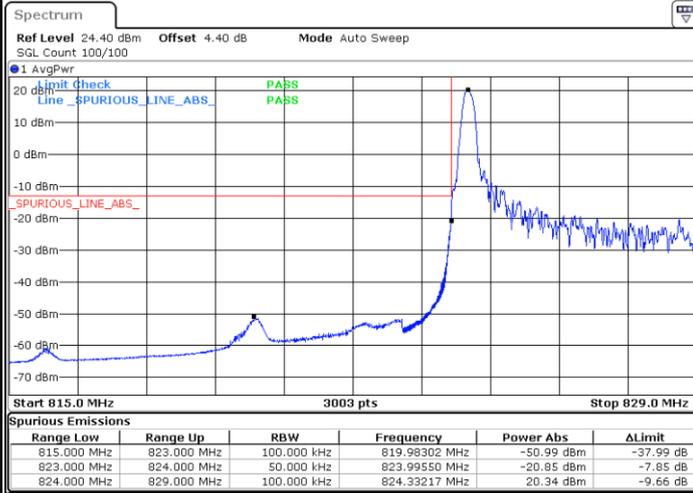


Date: 22 DEC 2021 05:27:46



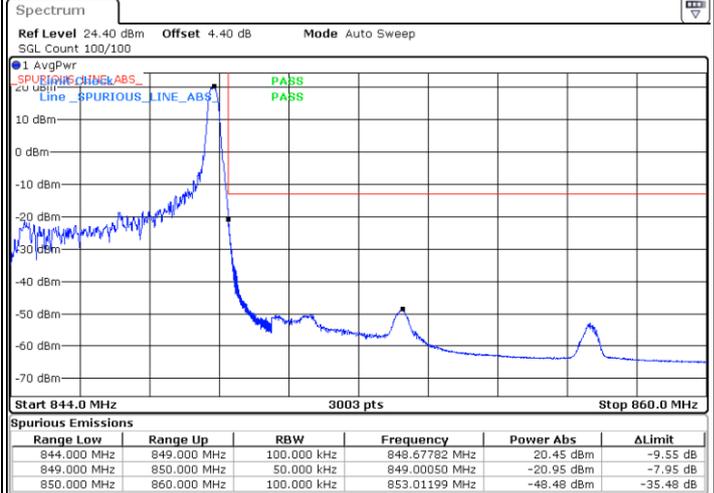
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



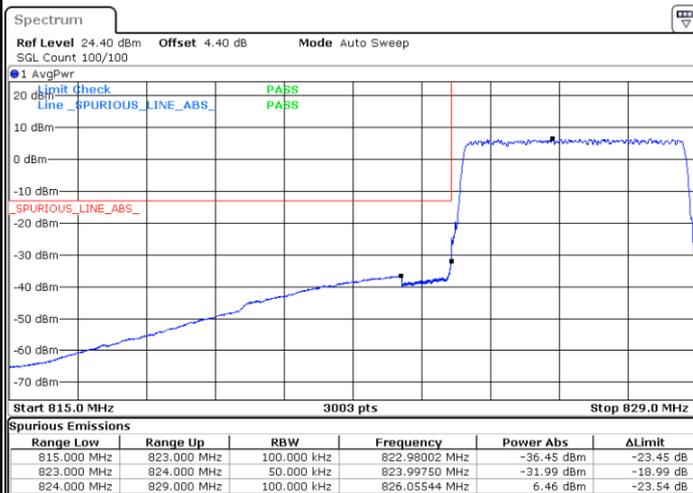
Date: 22.DEC.2021 05:18:12

Highest Band Edge / 1 RB



Date: 22.DEC.2021 05:25:51

Lowest Band Edge / Full RB



Date: 22.DEC.2021 05:22:02

Highest Band Edge / Full RB



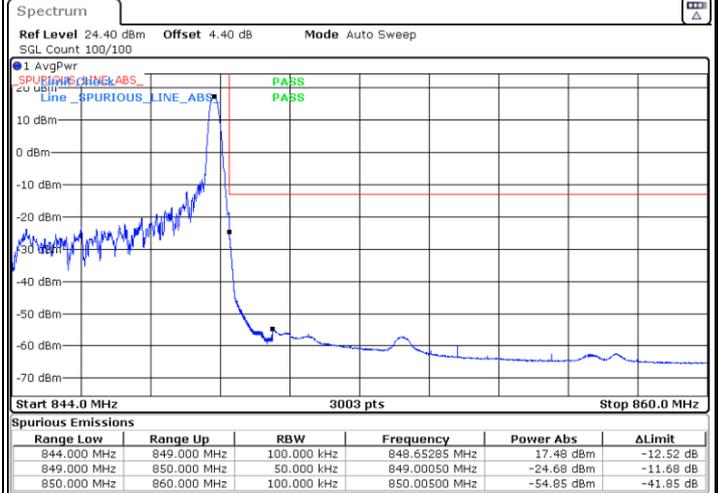
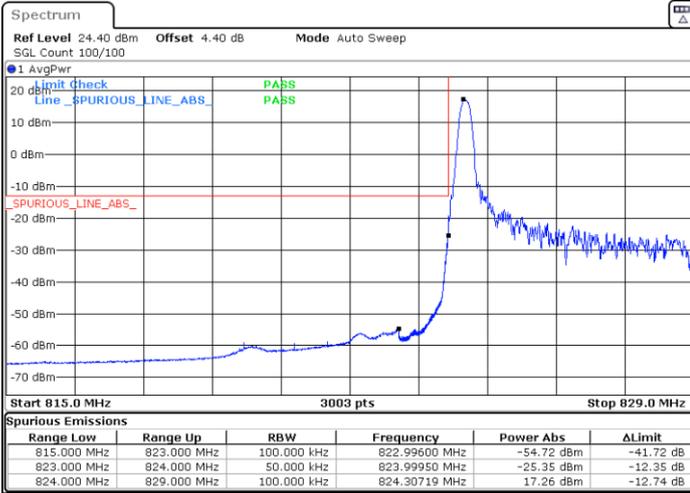
Date: 22.DEC.2021 05:29:41



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

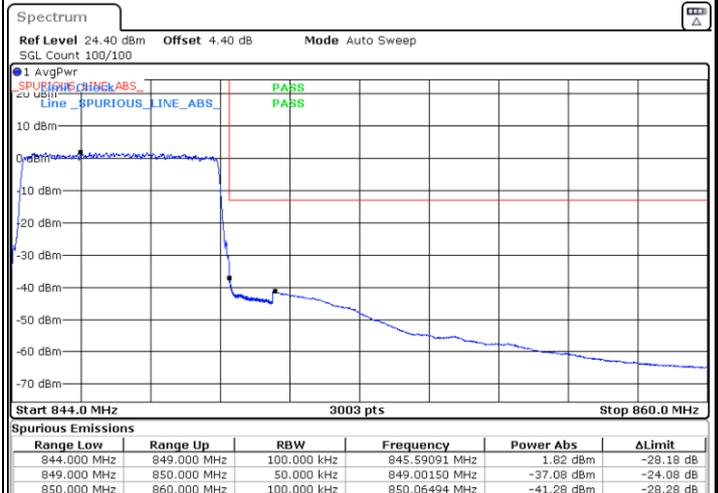
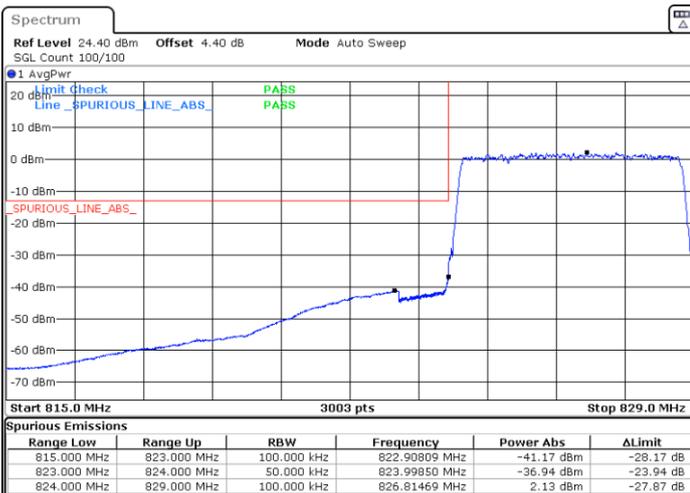


Date: 25.JAN.2022 02:59:34

Date: 25.JAN.2022 03:01:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.JAN.2022 02:58:32

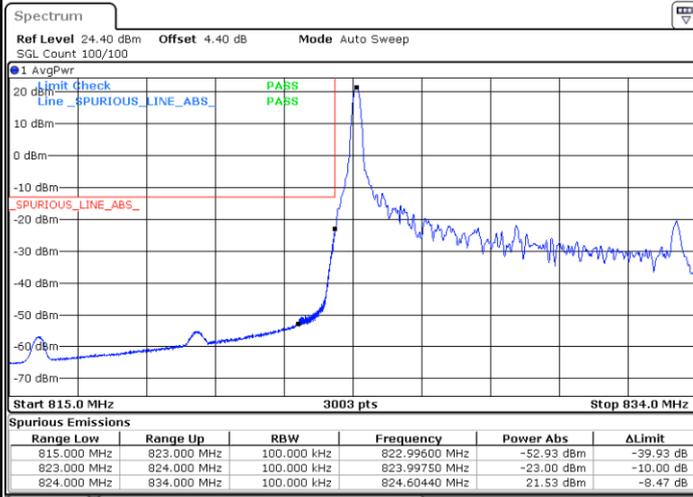
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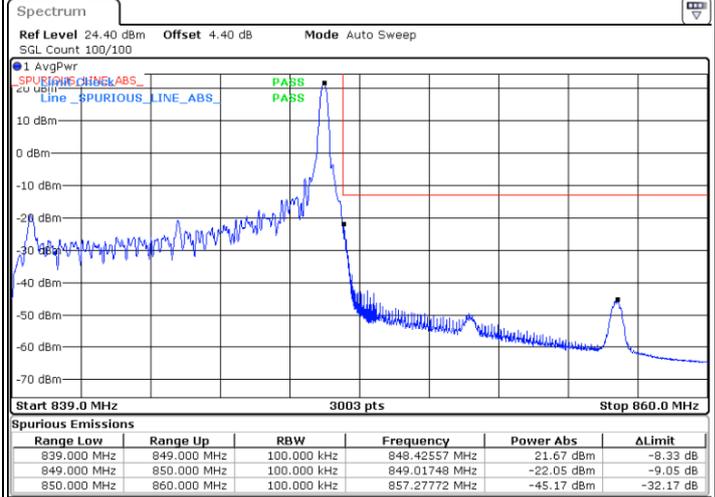
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



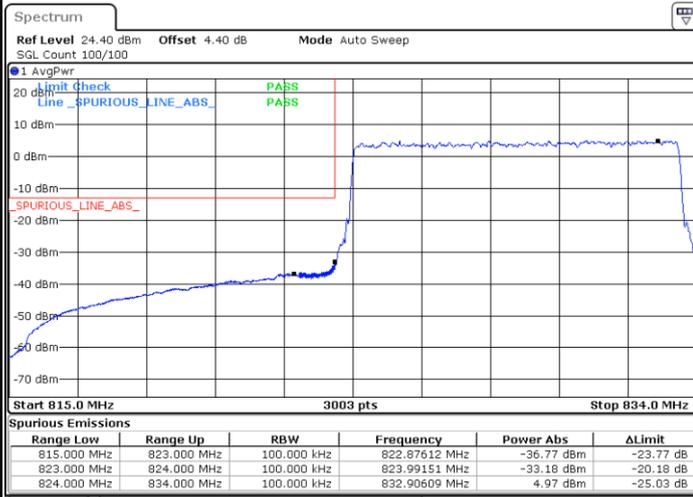
Date: 22.DEC.2021 07:41:29



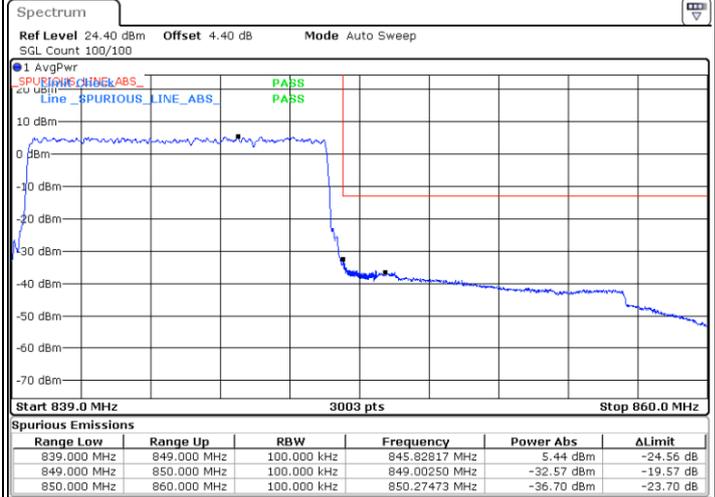
Date: 22.DEC.2021 07:49:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.DEC.2021 07:45:19

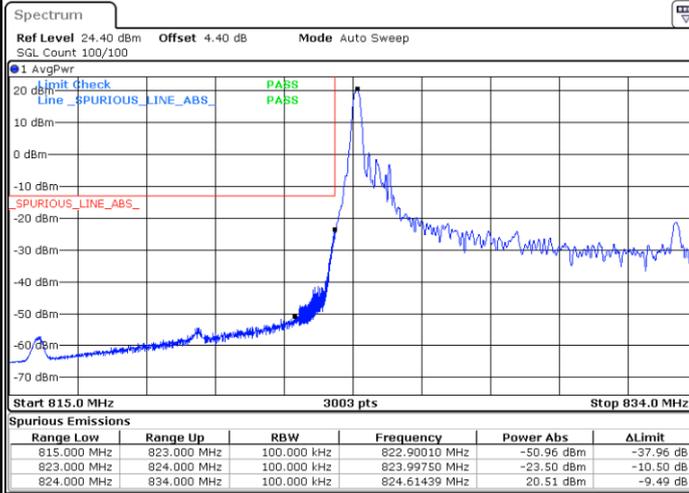


Date: 22.DEC.2021 07:53:31



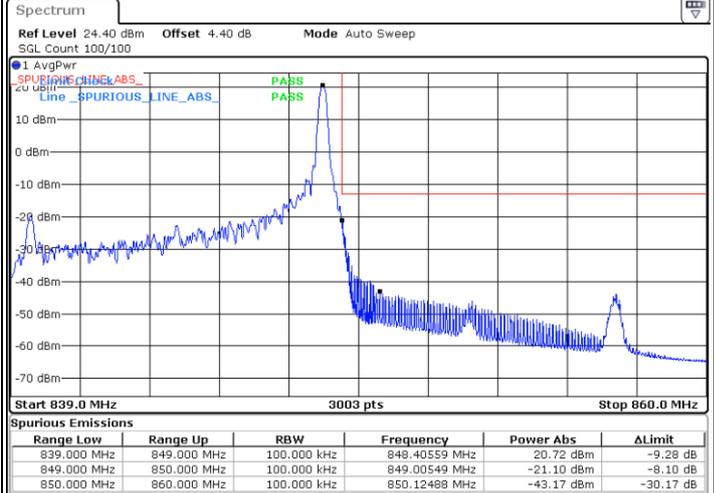
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



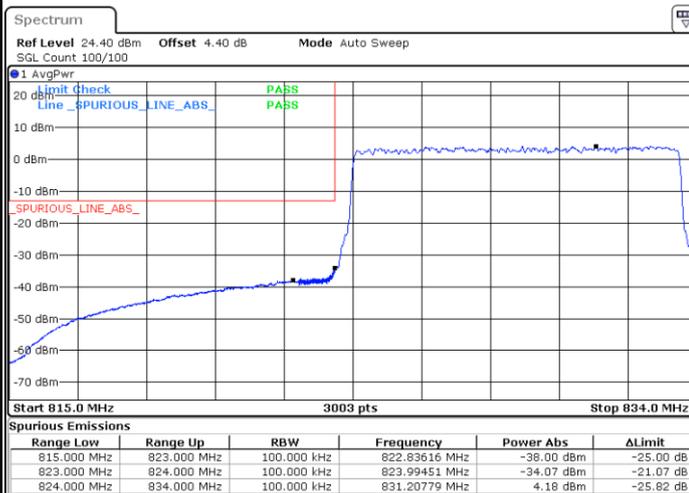
Date: 22.DEC.2021 07:43:24

Highest Band Edge / 1 RB



Date: 22.DEC.2021 07:51:37

Lowest Band Edge / Full RB



Date: 22.DEC.2021 07:47:47

Highest Band Edge / Full RB

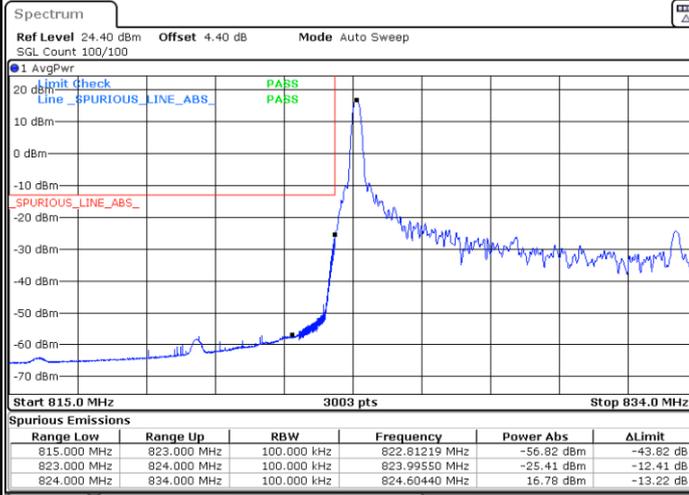


Date: 22.DEC.2021 07:56:00



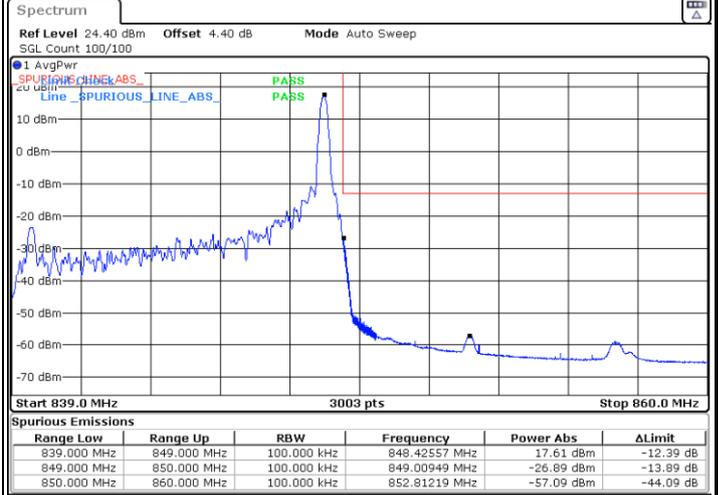
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



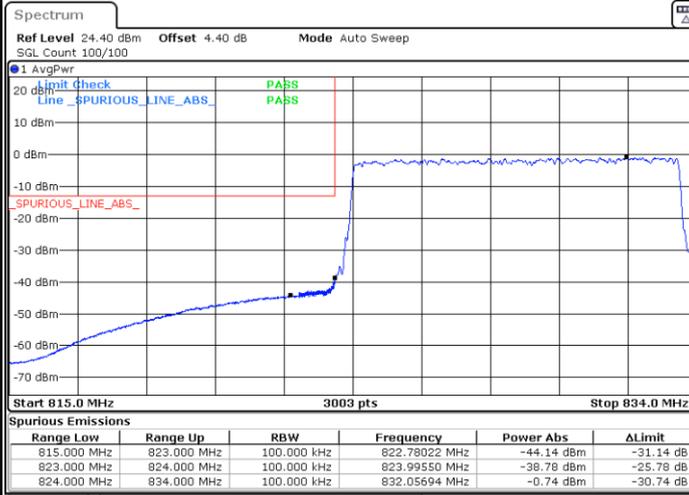
Date: 25.JAN.2022 02:55:04

Highest Band Edge / 1 RB



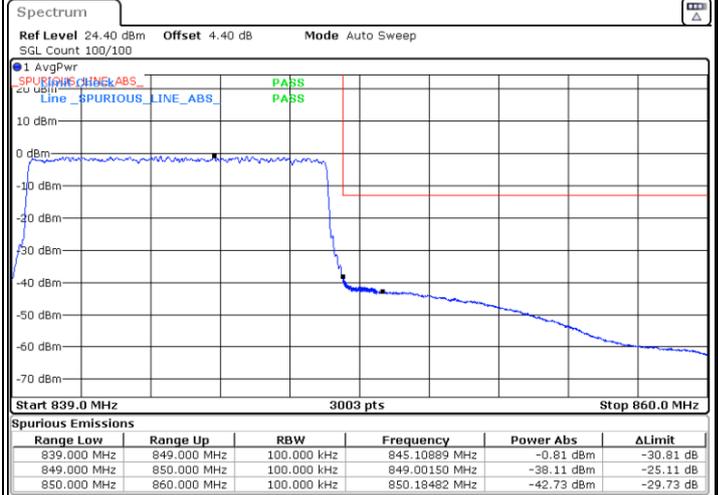
Date: 25.JAN.2022 02:55:56

Lowest Band Edge / Full RB



Date: 25.JAN.2022 02:54:12

Highest Band Edge / Full RB



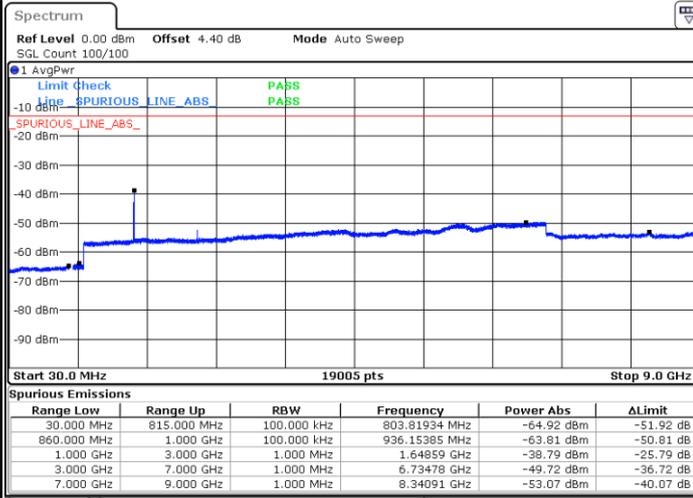
Date: 25.JAN.2022 02:56:49



Conducted Spurious Emission

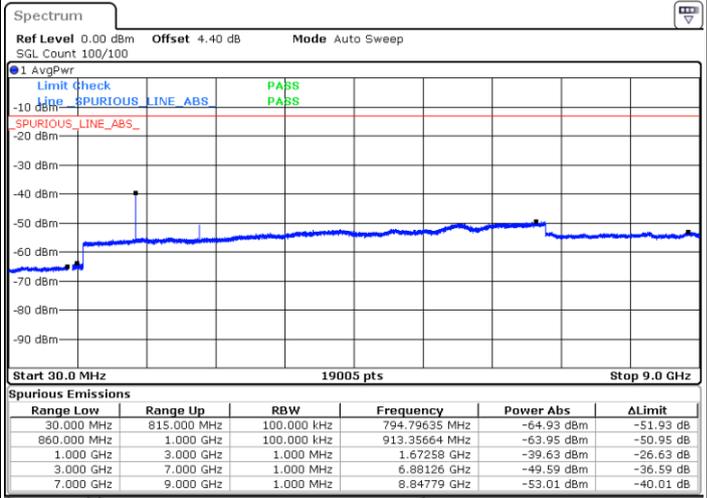
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



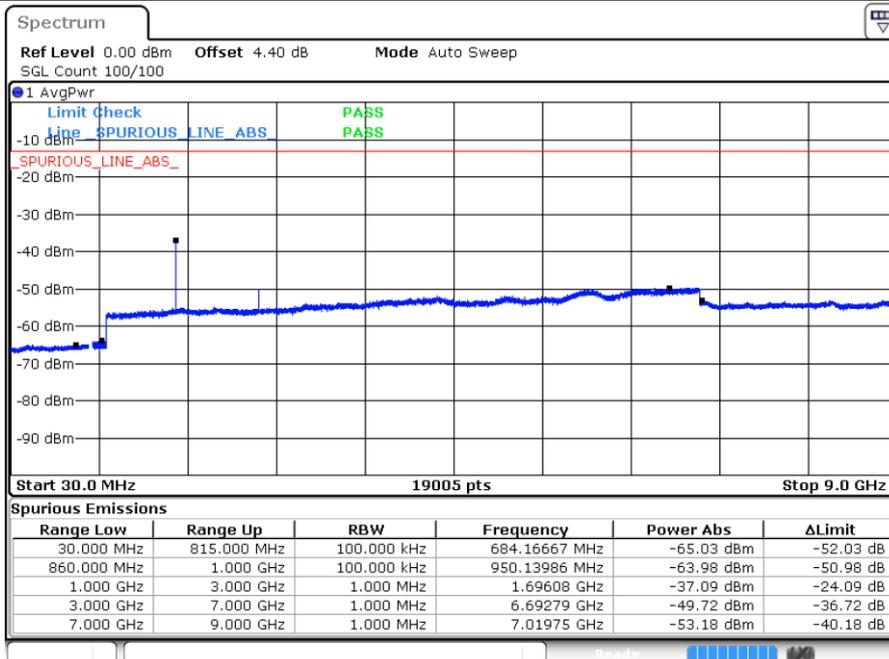
Date: 22.DEC.2021 08:27:11

Middle Channel / QPSK



Date: 22.DEC.2021 08:28:36

Highest Channel / QPSK



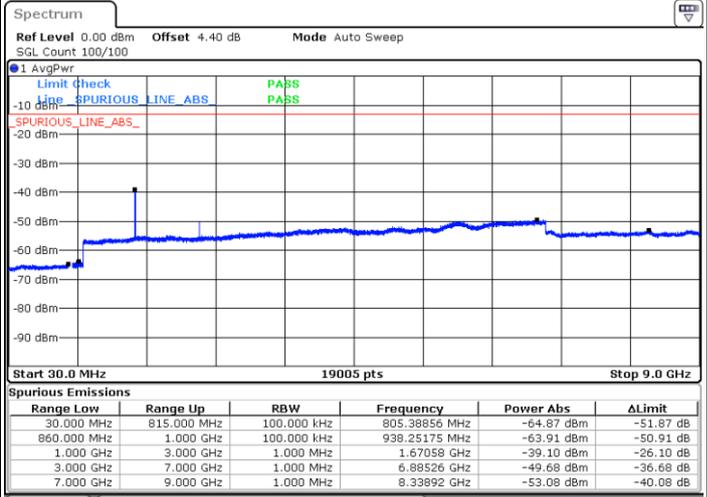
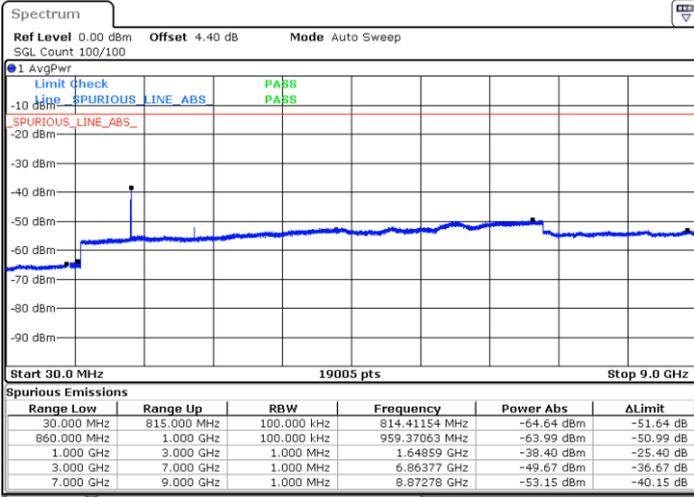
Date: 22.DEC.2021 08:30:01



LTE Band 5 / 3MHz

Lowest Channel / QPSK

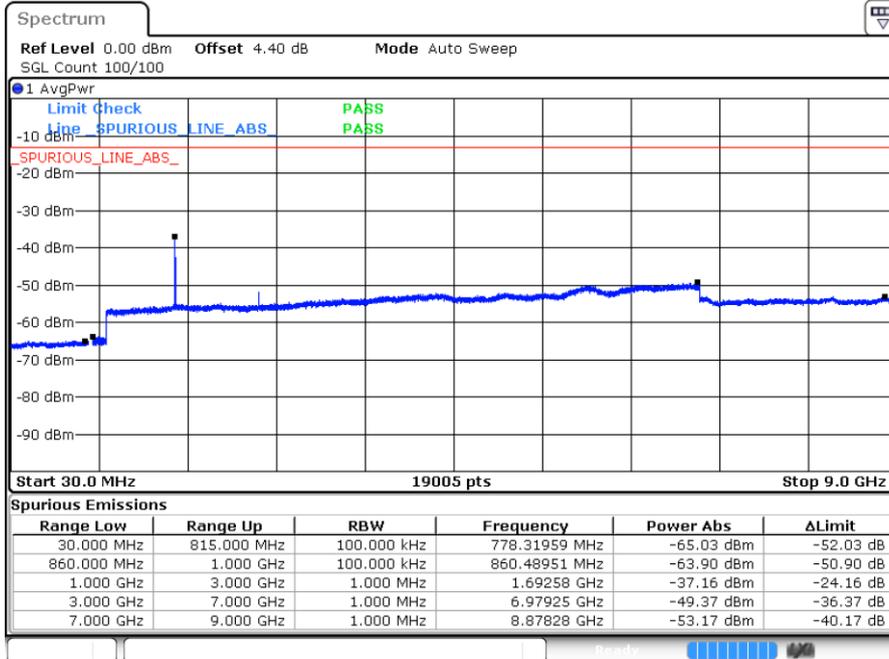
Middle Channel / QPSK



Date: 22.DEC.2021 07:57:25

Date: 22.DEC.2021 07:58:50

Highest Channel / QPSK



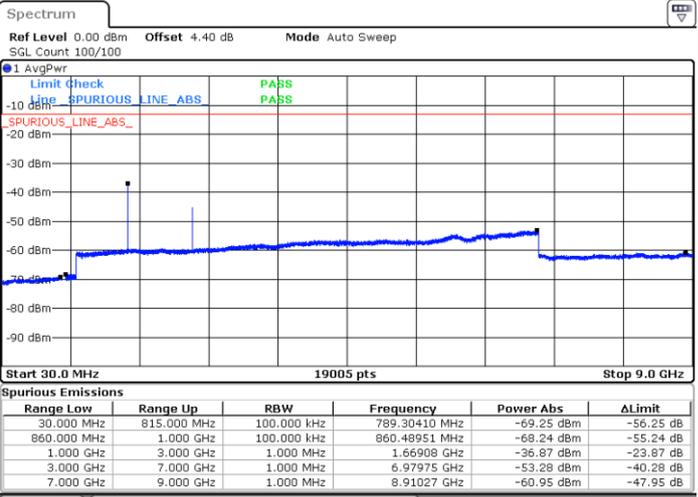
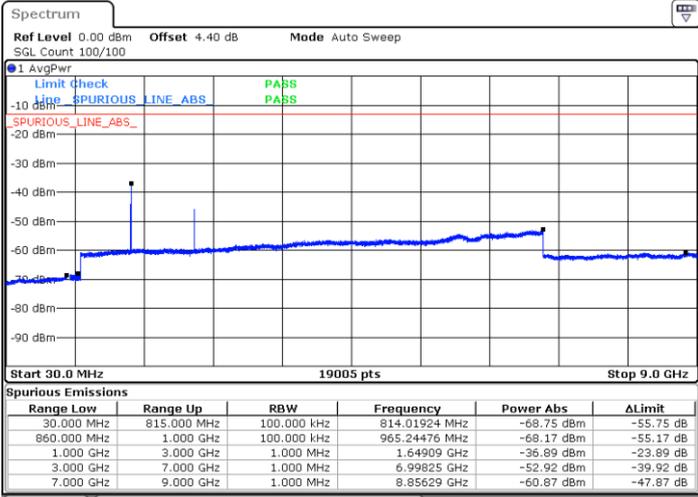
Date: 22.DEC.2021 08:00:15



LTE Band 5 / 5MHz

Lowest Channel / QPSK

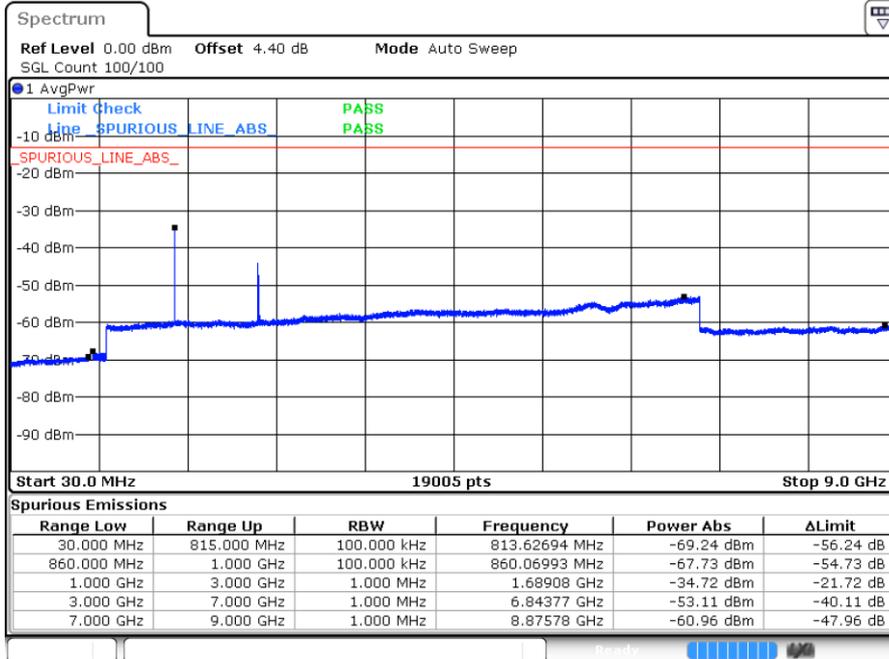
Middle Channel / QPSK



Date: 22.DEC.2021 08:01:40

Date: 22.DEC.2021 08:03:06

Highest Channel / QPSK



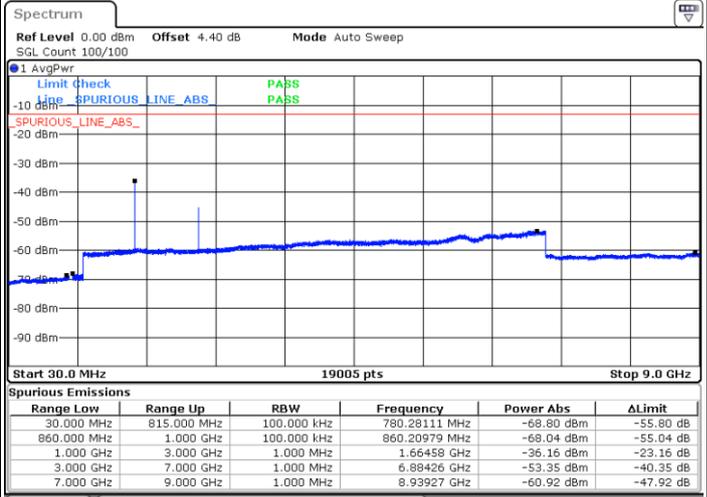
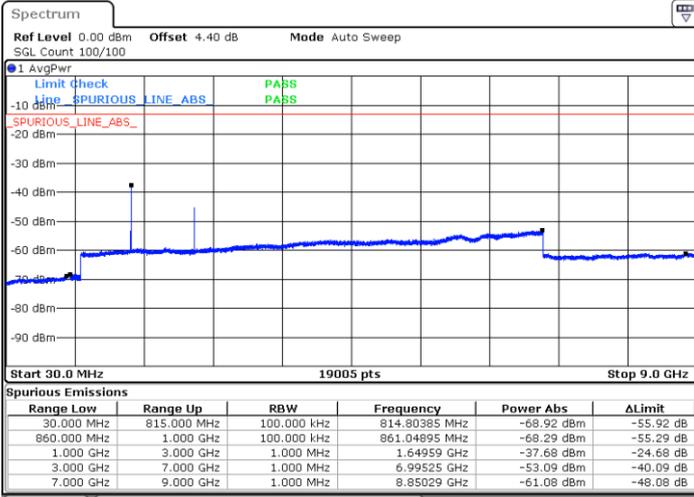
Date: 22.DEC.2021 08:04:31



LTE Band 5 / 10MHz

Lowest Channel / QPSK

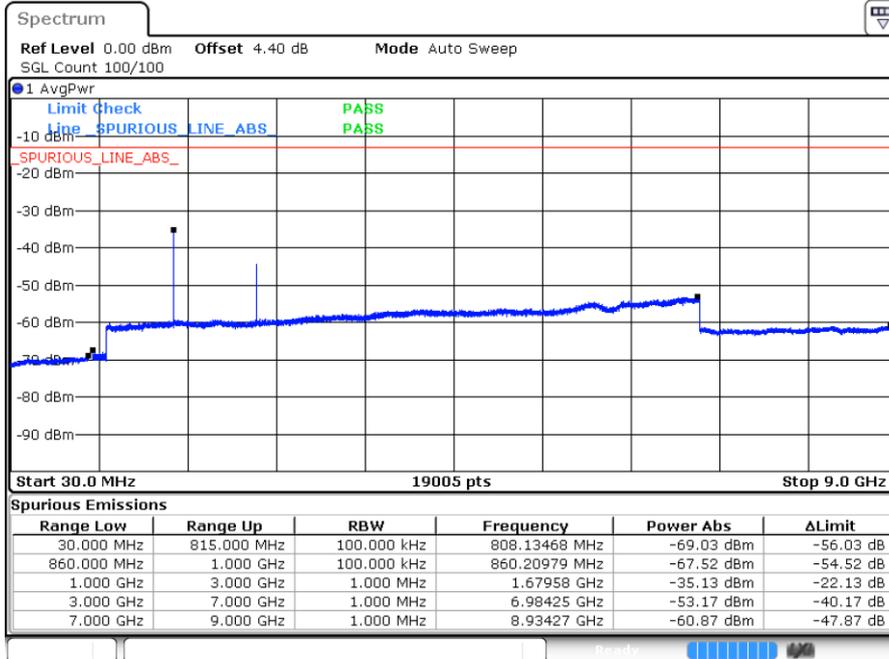
Middle Channel / QPSK



Date: 22.DEC.2021 08:06:30

Date: 22.DEC.2021 08:07:55

Highest Channel / QPSK



Date: 22.DEC.2021 08:09:20



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0073	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

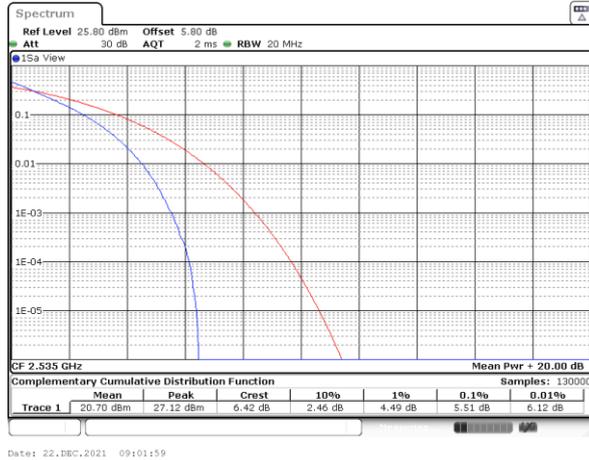
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.51	6.46	6.93	PASS

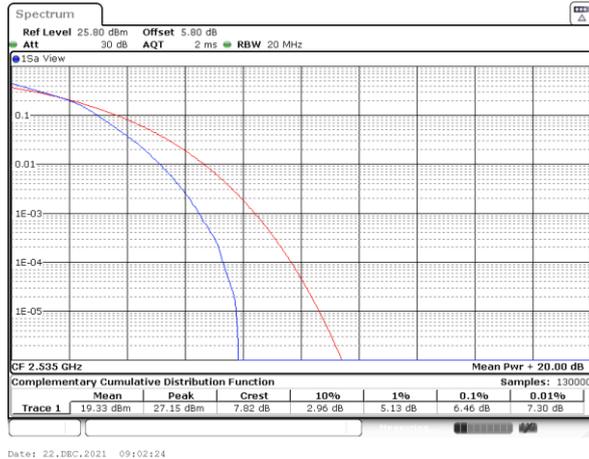


LTE Band 7 / 20MHz

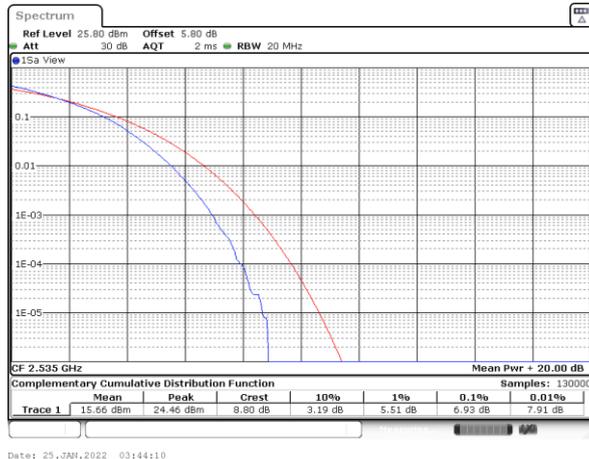
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



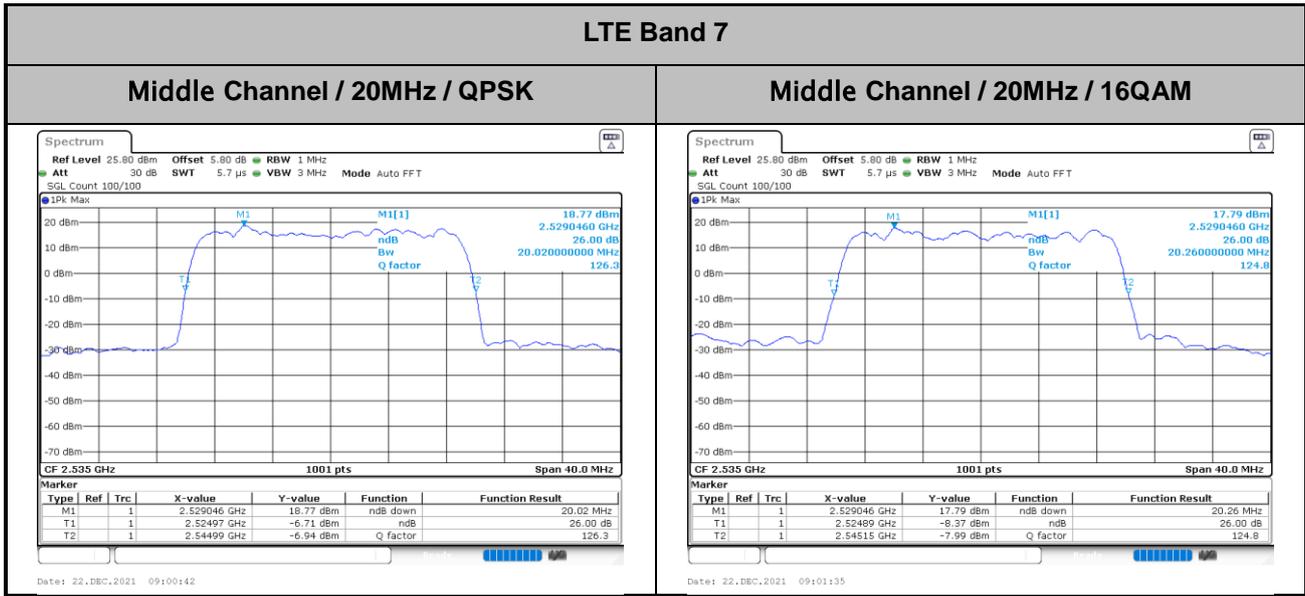
Middle Channel / Full RB/ 64QAM





26dB Bandwidth

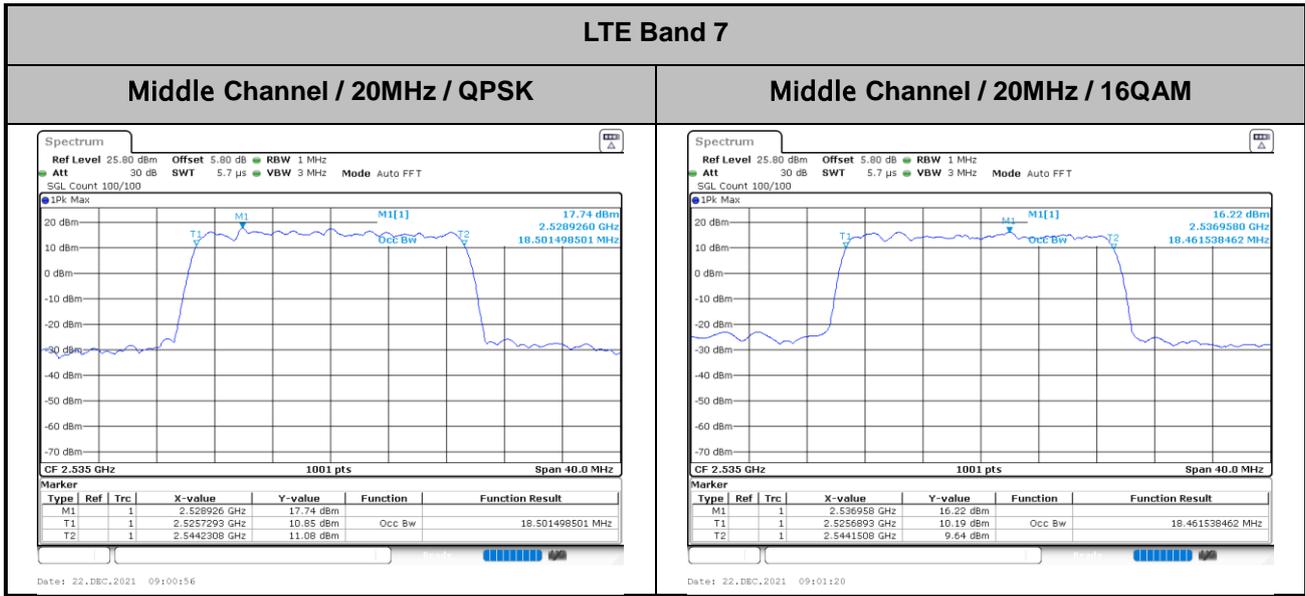
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.02	20.26





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.50	18.46



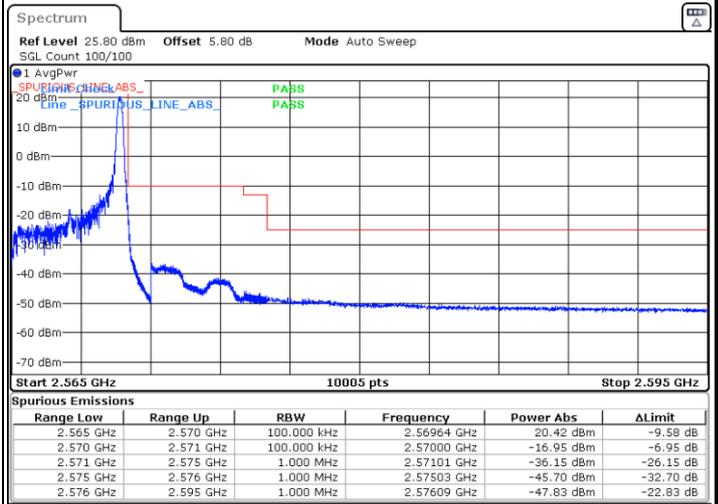
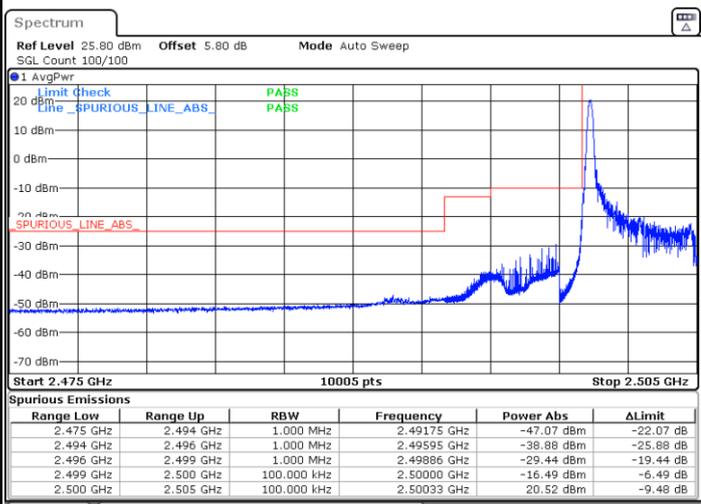


Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

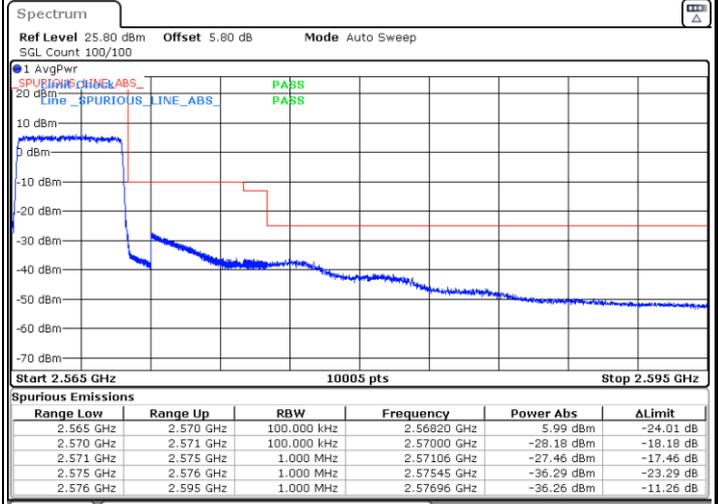
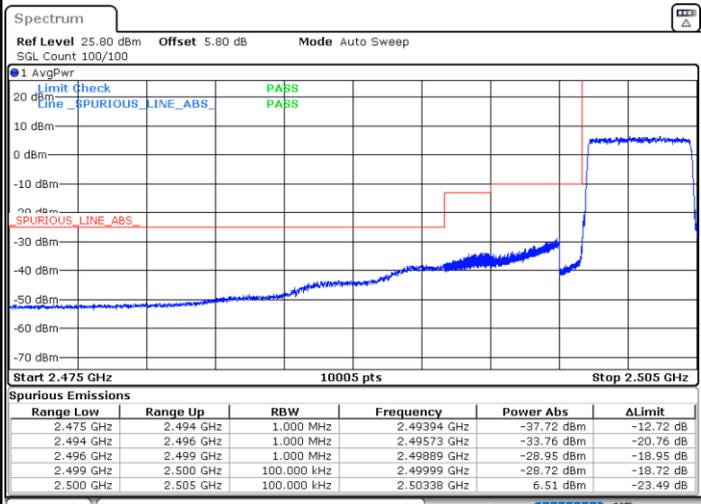


Date: 22.DEC.2021 07:27:11

Date: 22.DEC.2021 07:36:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



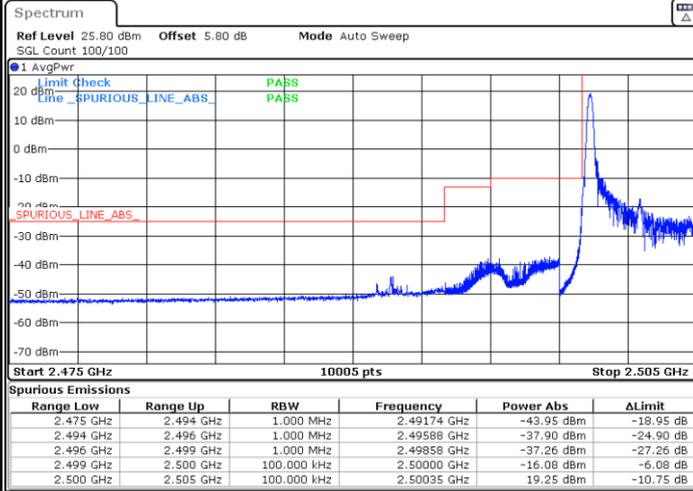
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Date: 22.DEC.2021 07:41:43



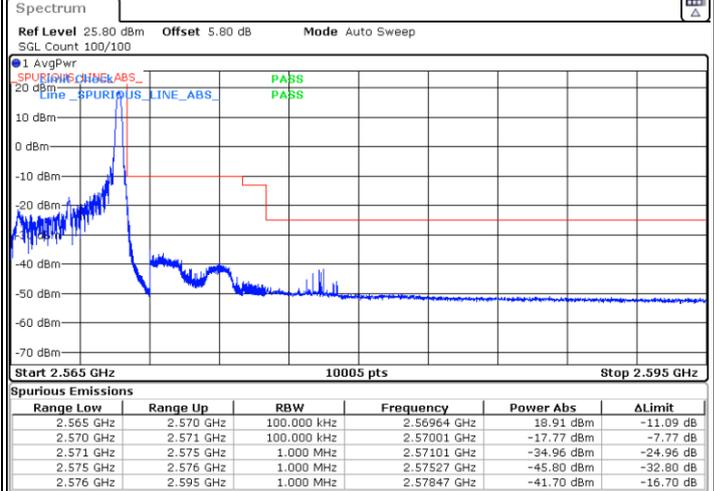
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



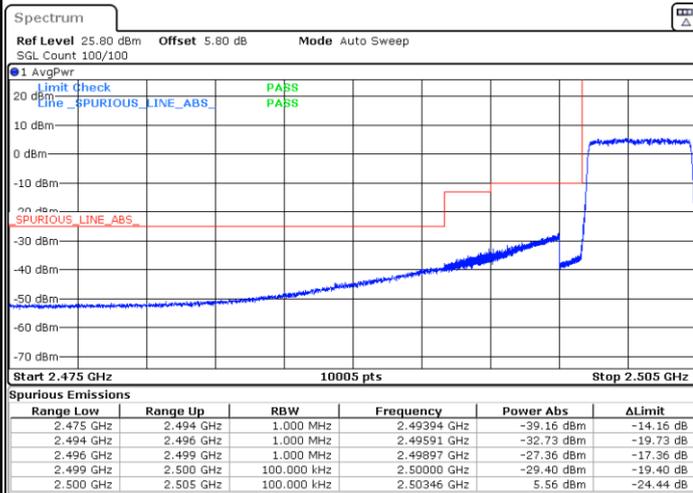
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Highest Band Edge / 1 RB



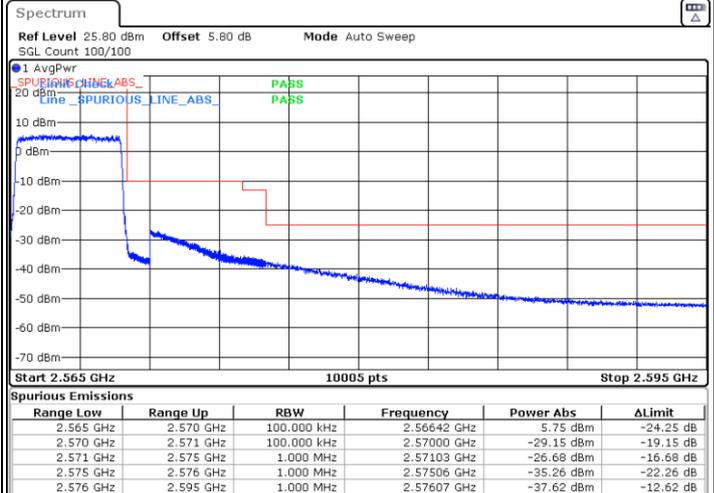
Date: 22.DEC.2021 07:38:18

Lowest Band Edge / Full RB



Date: 22.DEC.2021 07:30:02

Highest Band Edge / Full RB

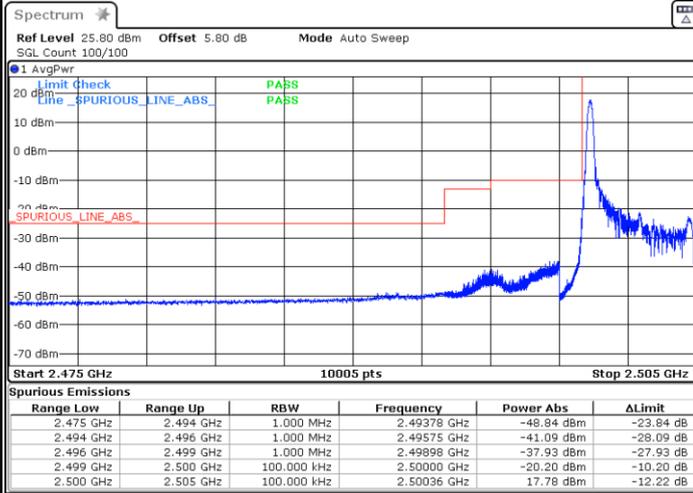


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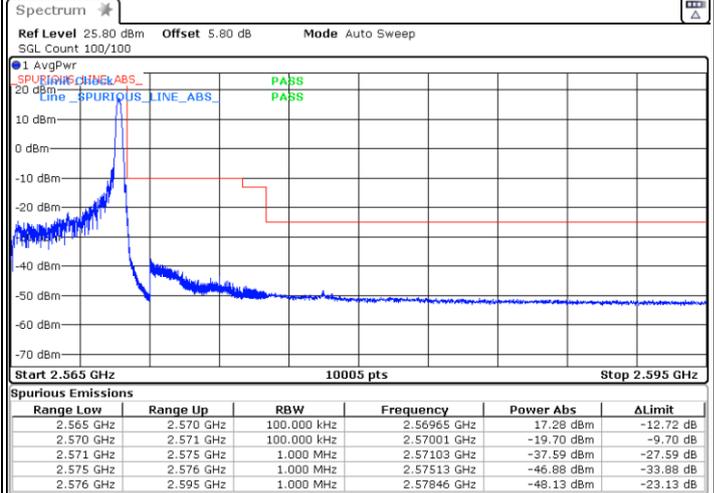
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



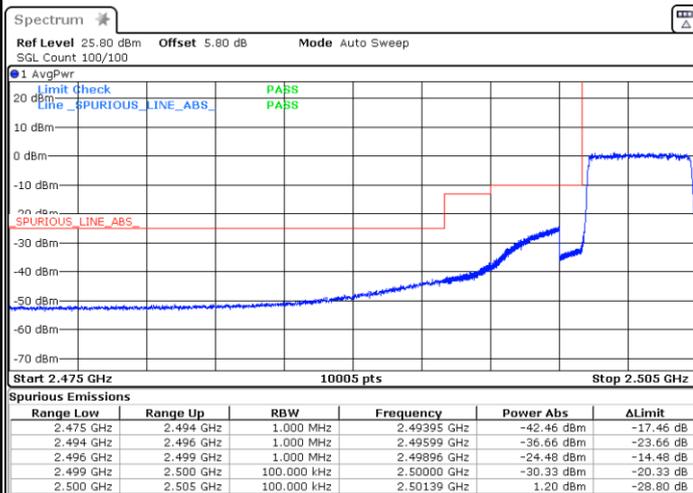
Date: 25.JAN.2022 03:21:58

Highest Band Edge / 1 RB



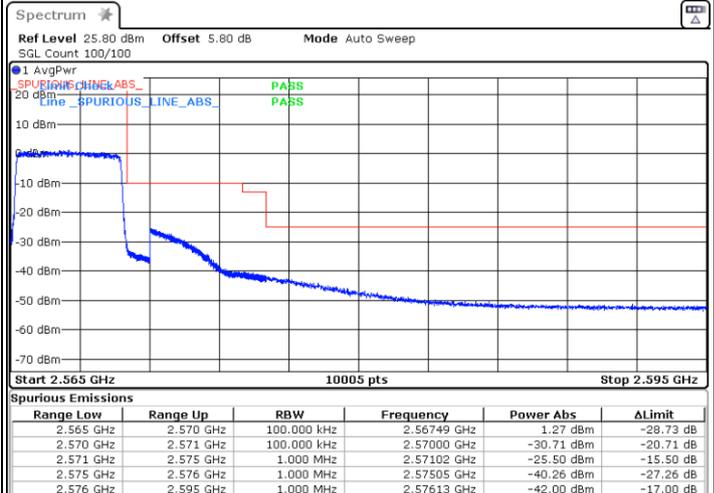
Date: 25.JAN.2022 03:25:56

Lowest Band Edge / Full RB



Date: 25.JAN.2022 03:23:17

Highest Band Edge / Full RB



Date: 25.JAN.2022 03:23:57