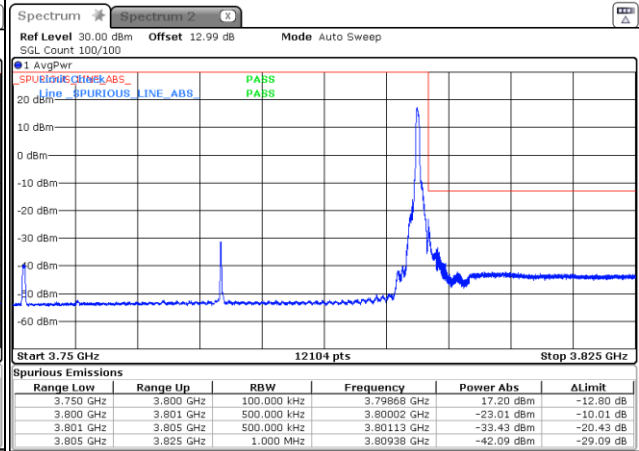
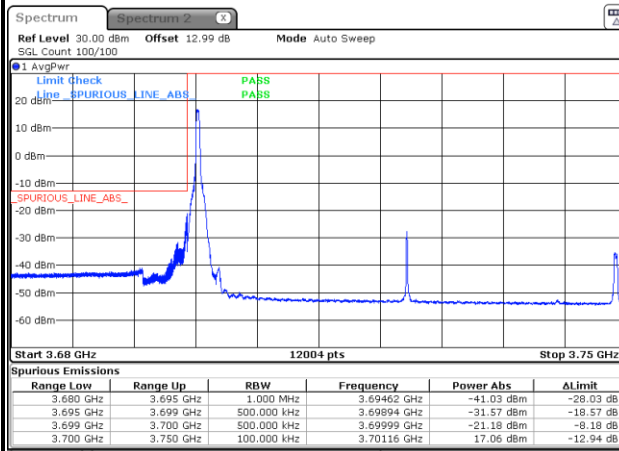


FR1 n78 / 50MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

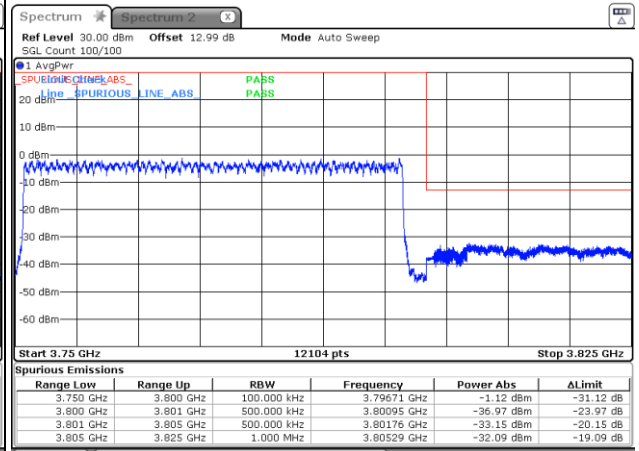
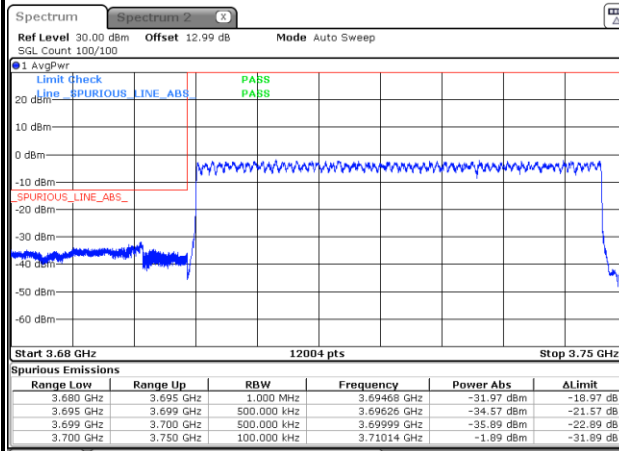


Date: 29.DEC.2021 11:54:26

Date: 29.DEC.2021 11:18:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



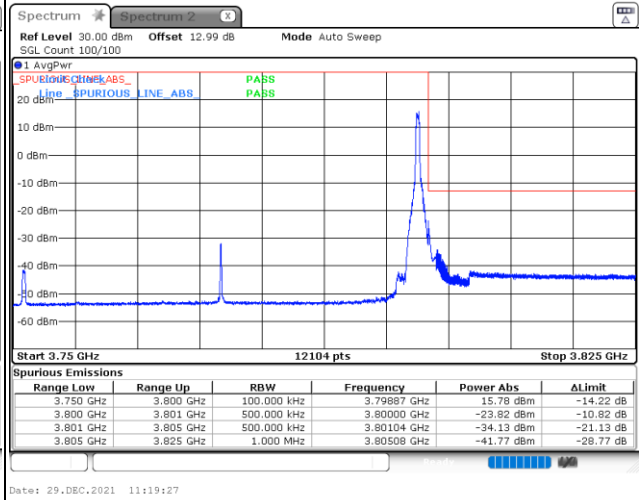
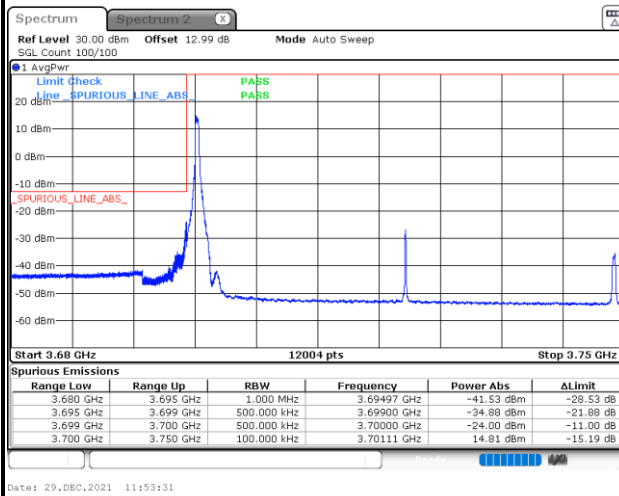
Date: 29.DEC.2021 11:51:47

Date: 29.DEC.2021 11:21:33

FR1 n78 / 50MHz / DFT-S OFDM / 256QAM

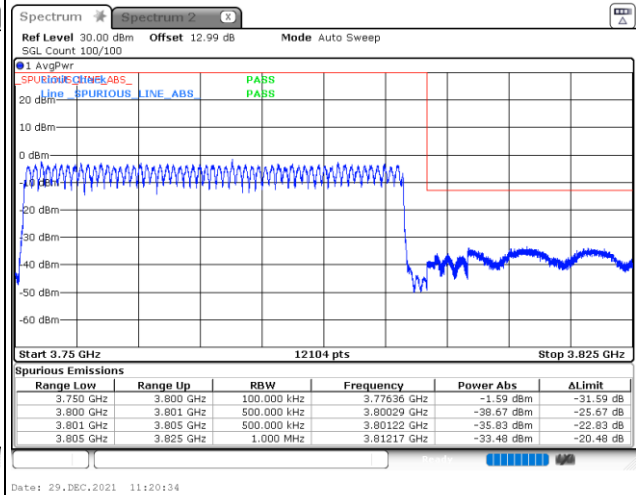
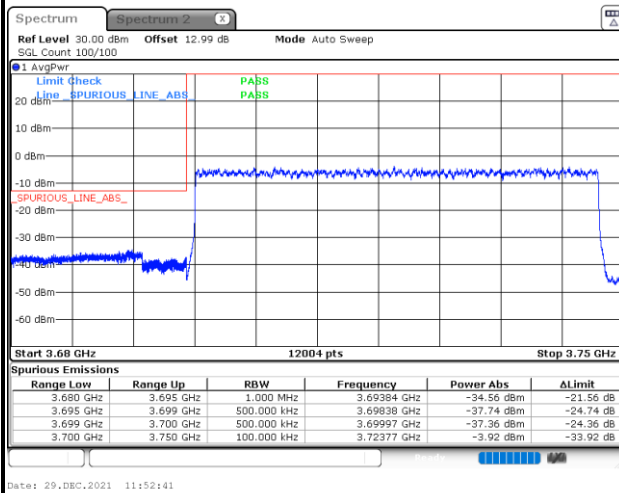
Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24



Lowest Band Edge / Full RB

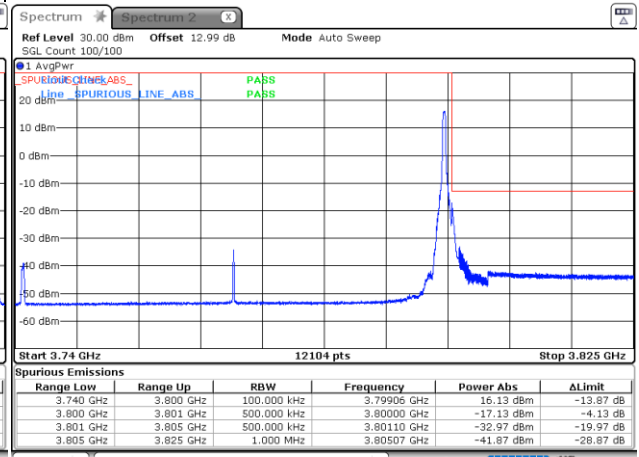
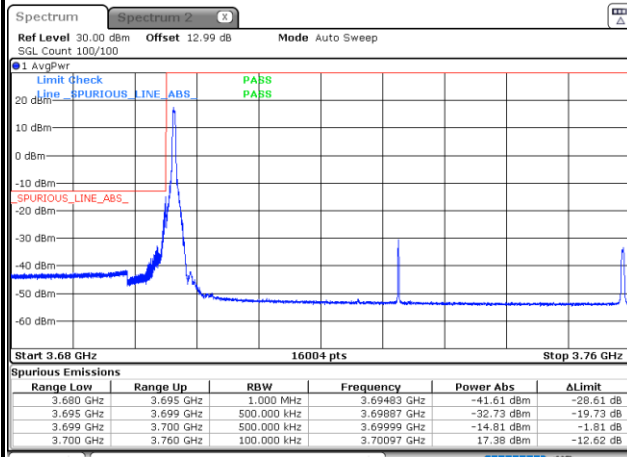
Highest Band Edge / Full RB



FR1 n78 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

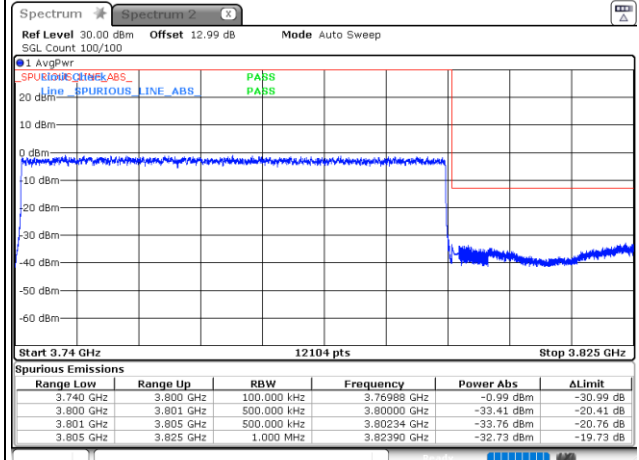
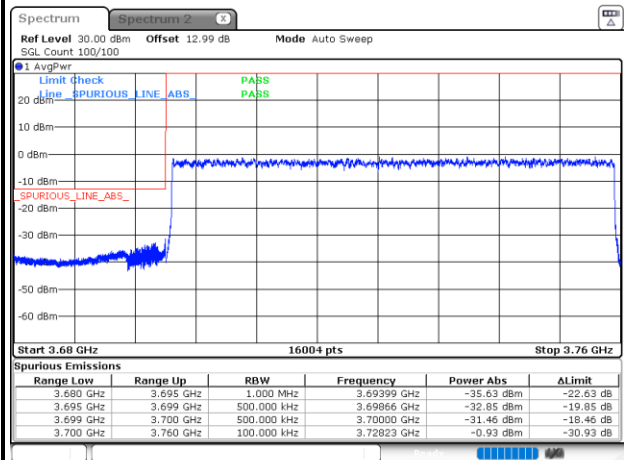


Date: 29. DEC. 2021 11:04:38

Date: 29. DEC. 2021 10:08:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



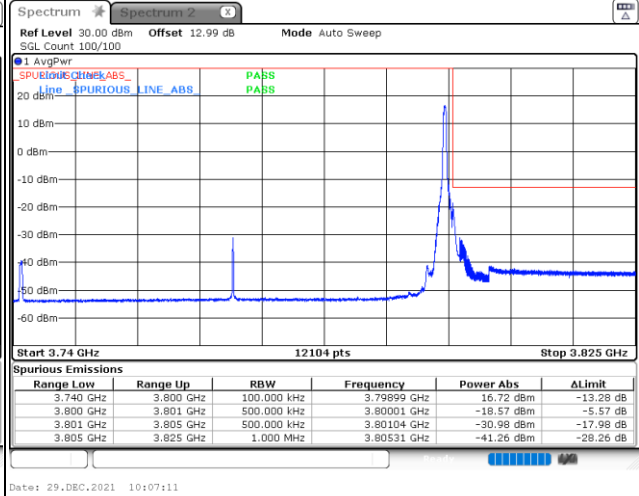
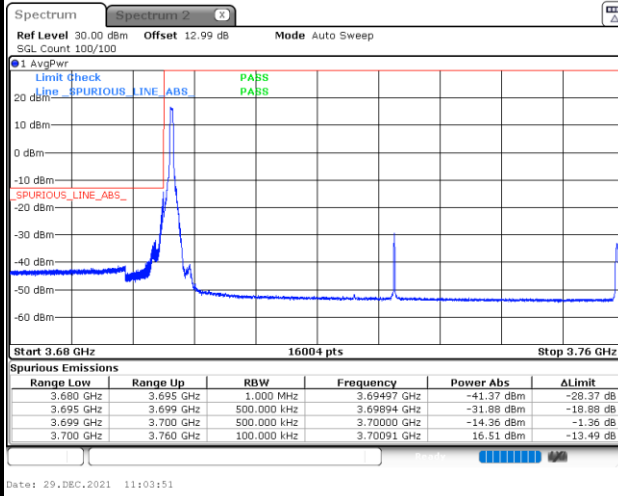
Date: 29. DEC. 2021 10:56:20

Date: 29. DEC. 2021 10:54:54

FR1 n78 / 60MHz / DFT-S OFDM / QPSK

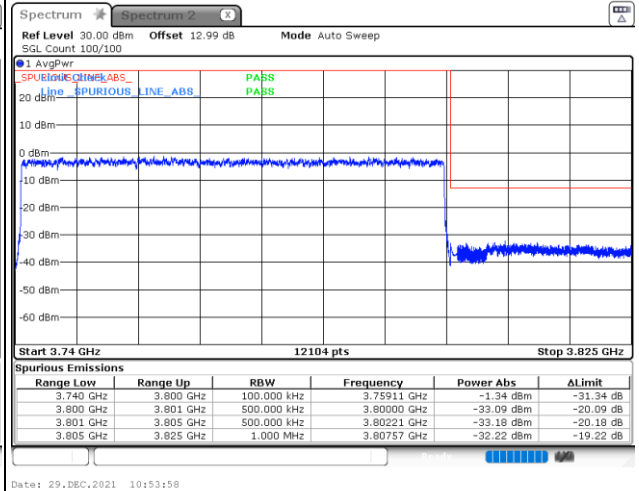
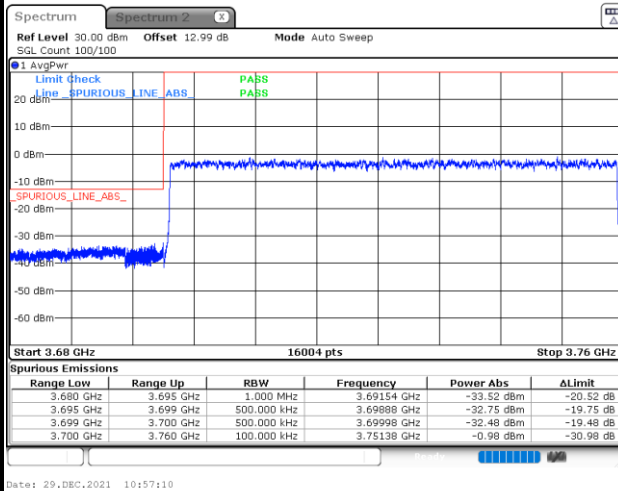
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

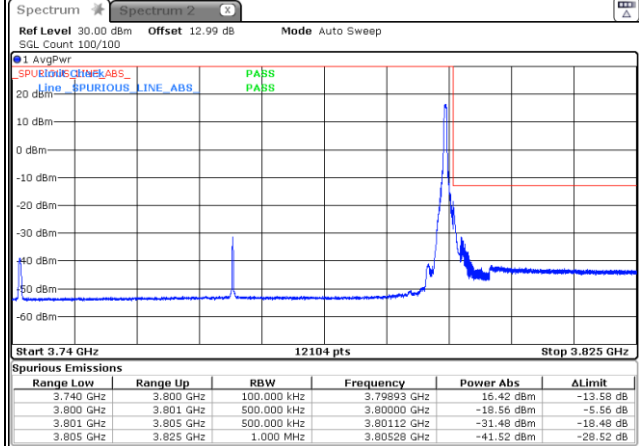
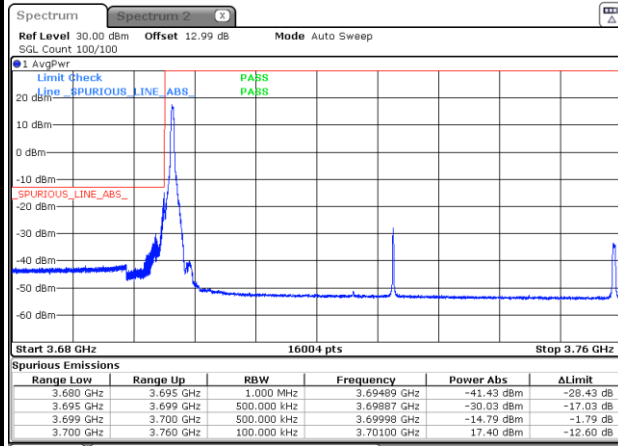
Highest Band Edge / Full RB



FR1 n78 / 60MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

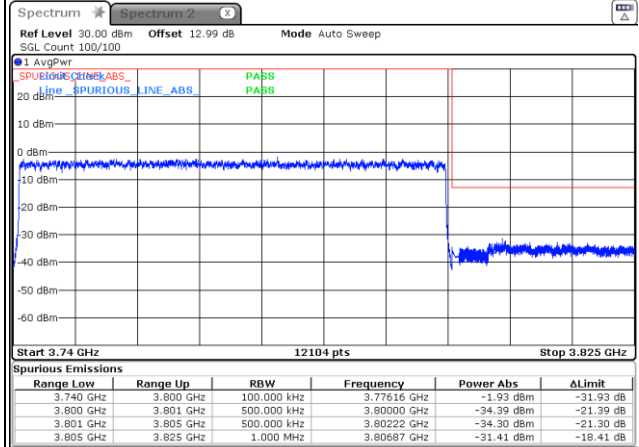
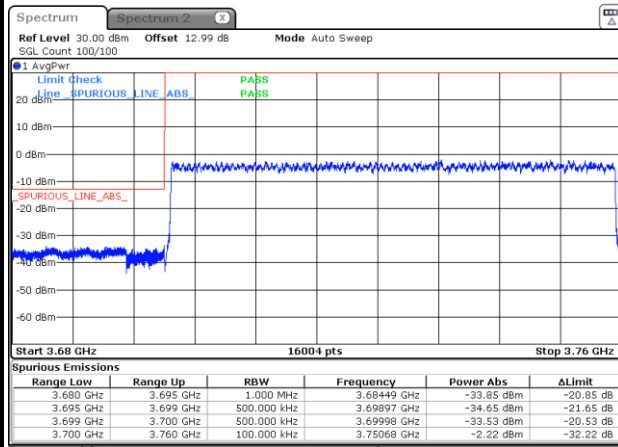


Date: 29.DEC.2021 11:02:38

Date: 29.DEC.2021 10:09:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



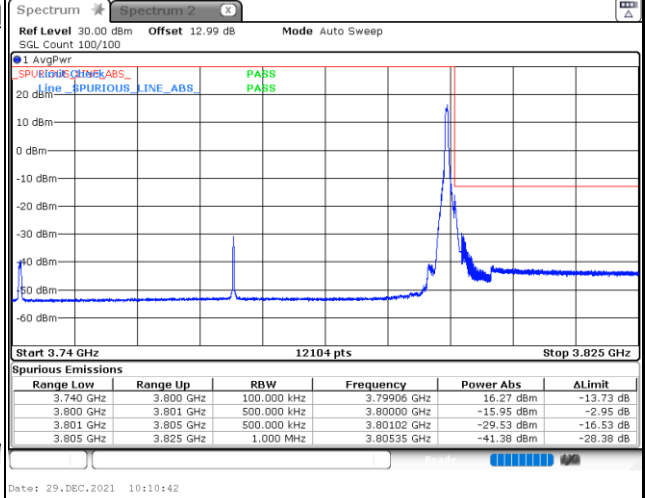
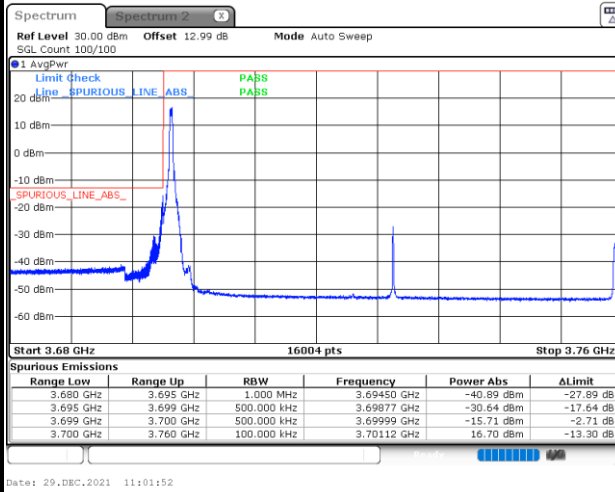
Date: 29.DEC.2021 10:58:07

Date: 29.DEC.2021 10:53:09

FR1 n78 / 60MHz / DFT-S OFDM / 64QAM

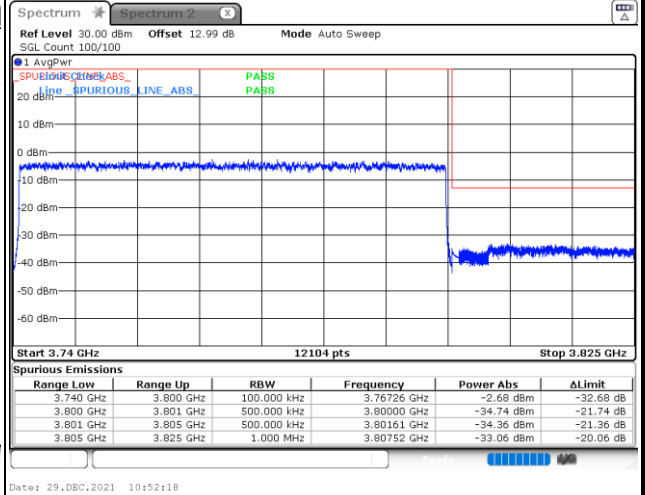
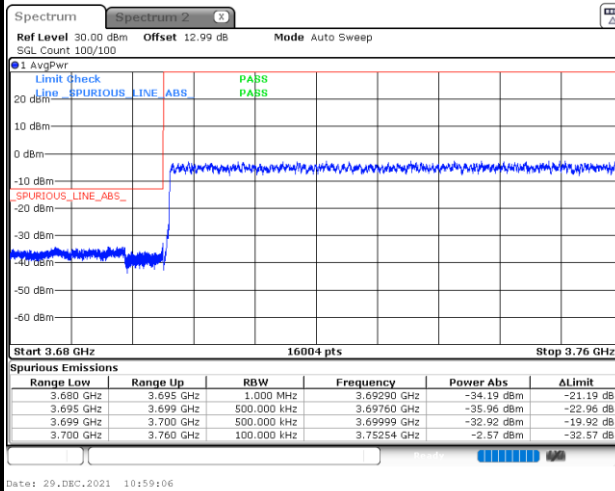
Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24



Lowest Band Edge / Full RB

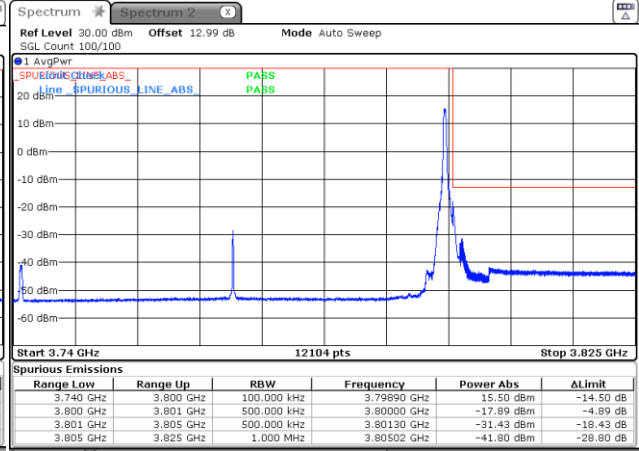
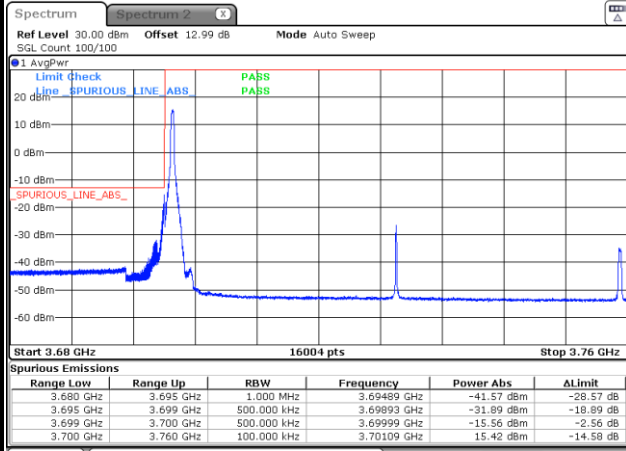
Highest Band Edge / Full RB



FR1 n78/ 60MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

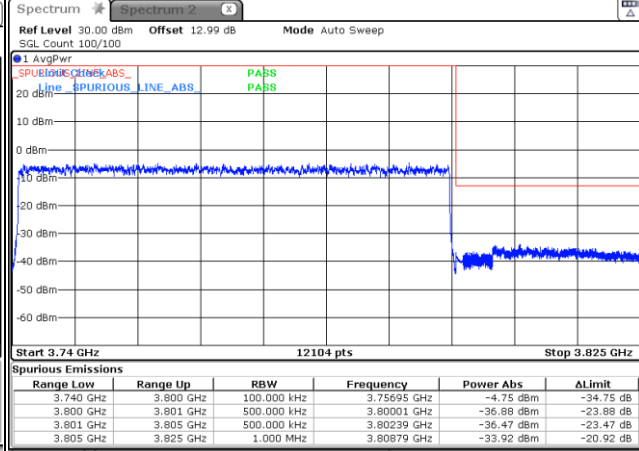
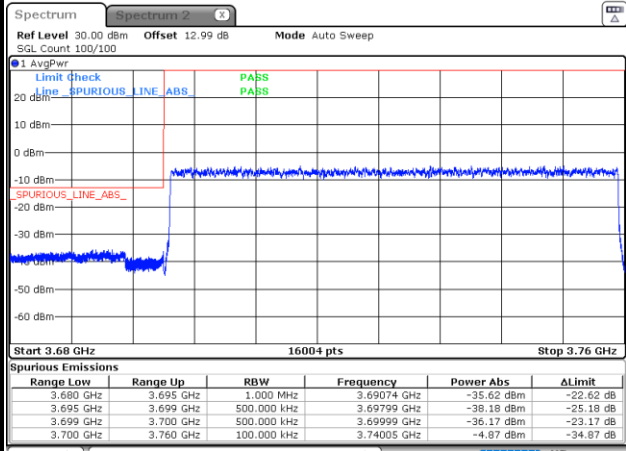


Date: 29.DEC.2021 11:01:01

Date: 29.DEC.2021 10:11:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



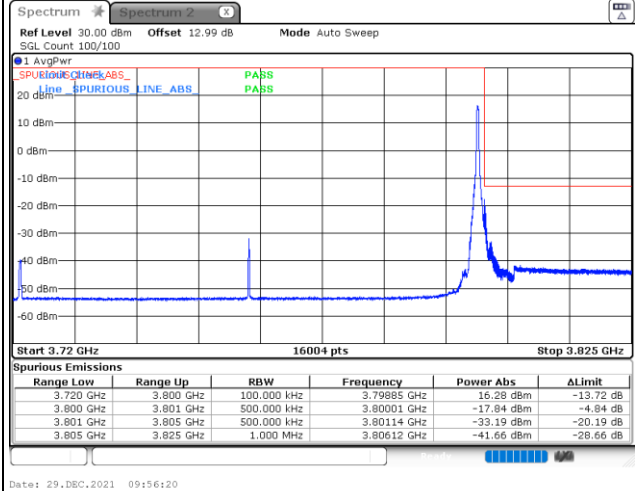
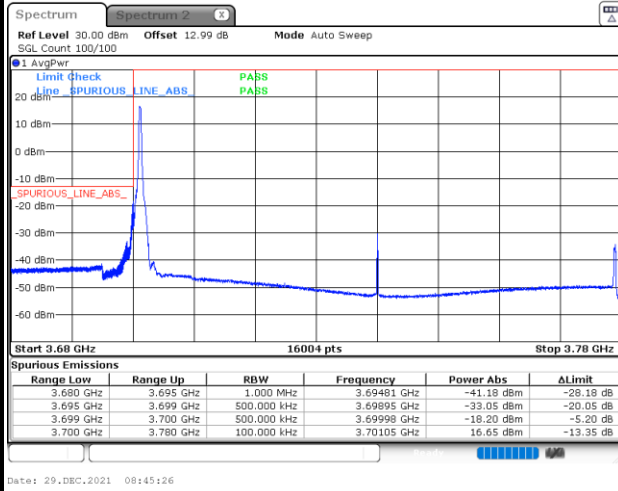
Date: 29.DEC.2021 11:00:04

Date: 29.DEC.2021 10:50:16

FR1 n78 / 80MHz / DFT-S OFDM / BPSK

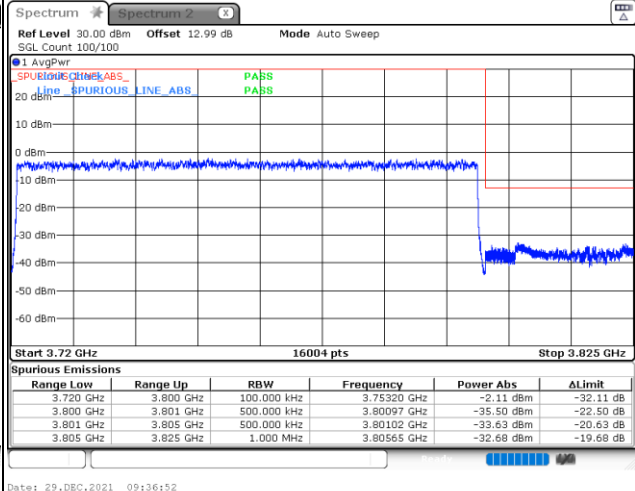
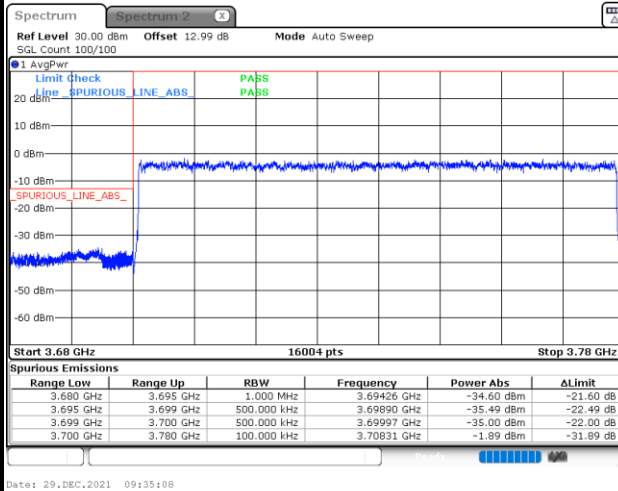
Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24



Lowest Band Edge / Full RB

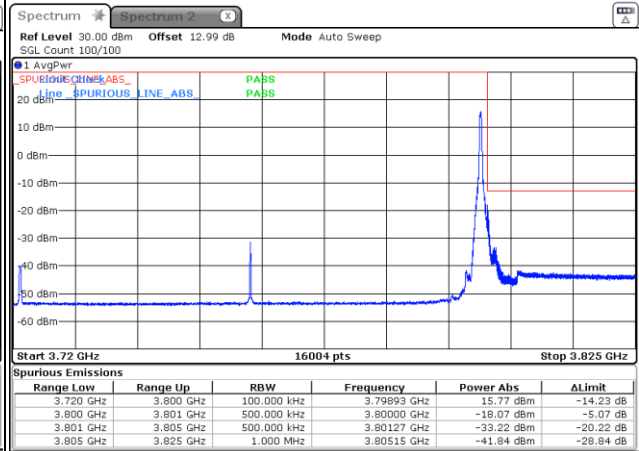
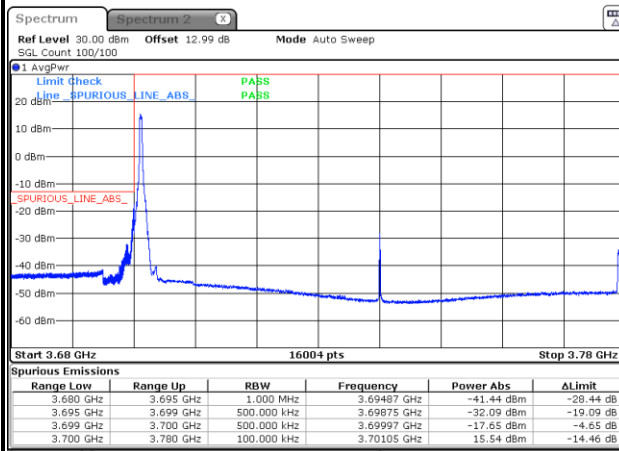
Highest Band Edge / Full RB



FR1 n78 / 80MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

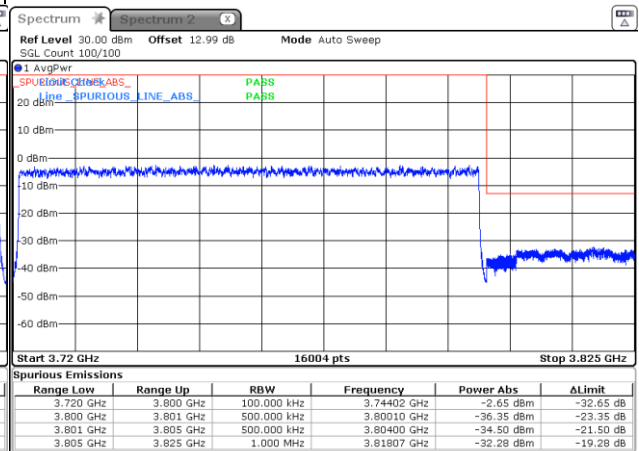
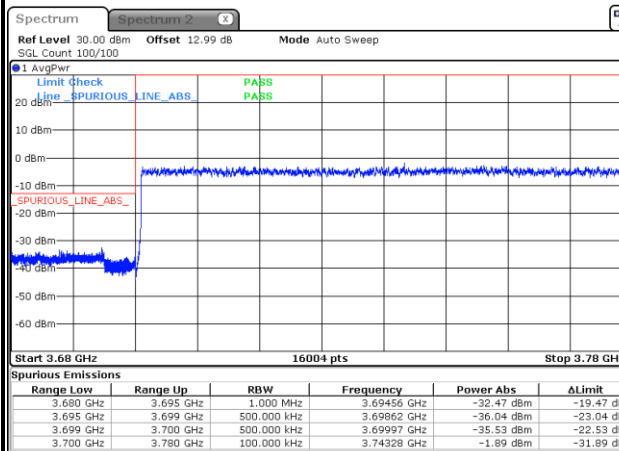


Date: 29.DEC.2021 08:46:19

Date: 29.DEC.2021 09:53:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



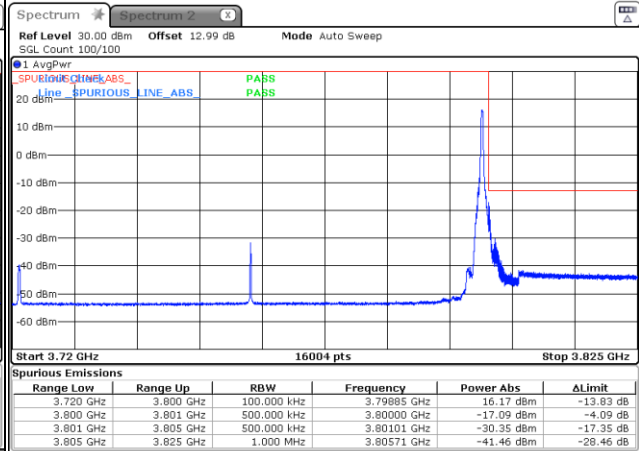
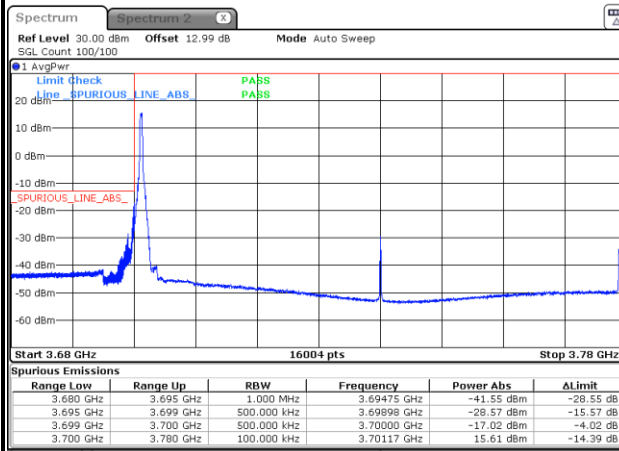
Date: 29.DEC.2021 09:34:25

Date: 29.DEC.2021 09:38:00

FR1 n78 / 80MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

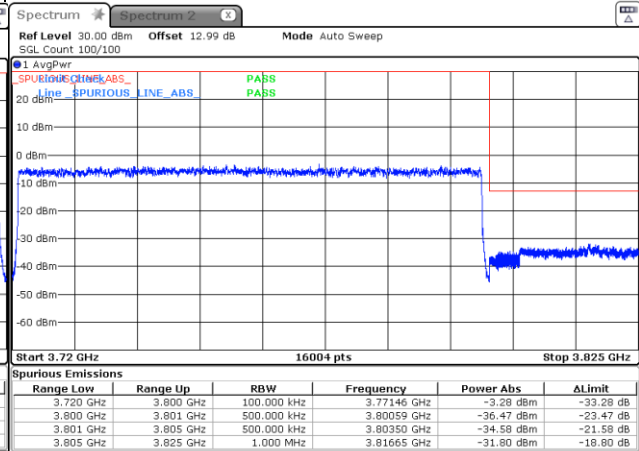
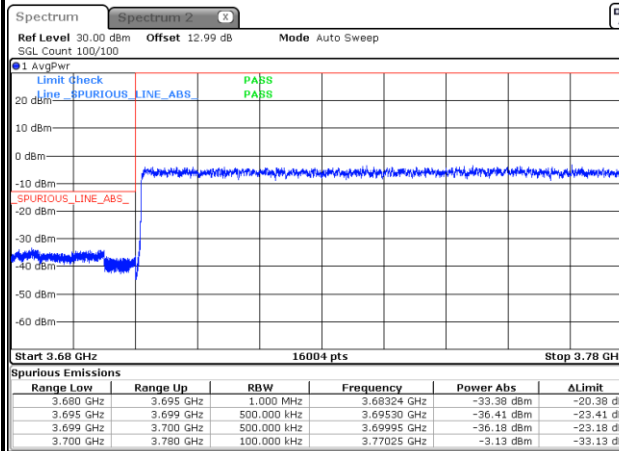


Date: 29.DEC.2021 08:47:10

Date: 29.DEC.2021 09:50:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

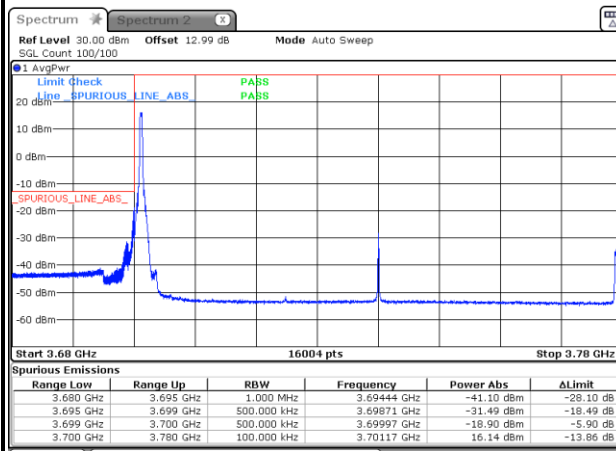


Date: 29.DEC.2021 09:33:47

Date: 29.DEC.2021 09:39:00

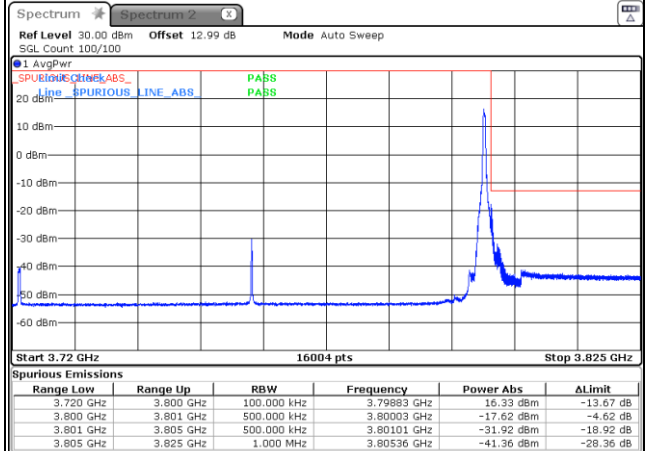
FR1 n78 / 80MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



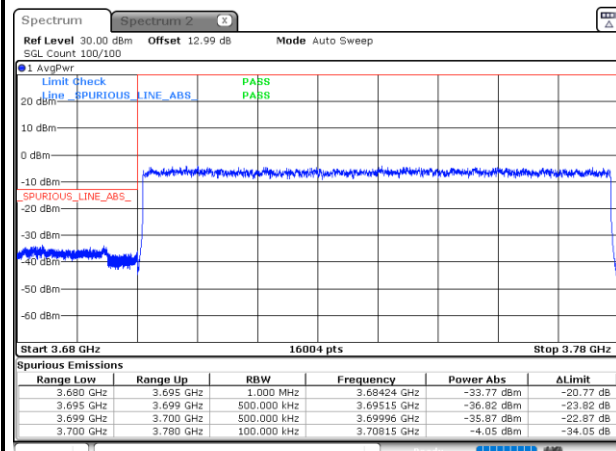
Date: 29.DEC.2021 09:25:10

Highest Band Edge / 1RB24



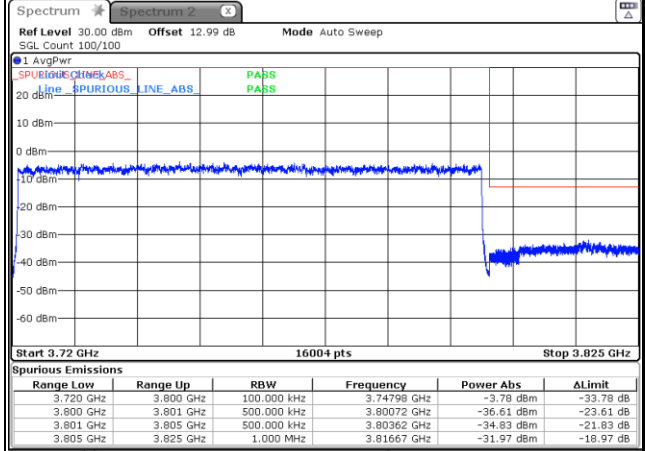
Date: 29.DEC.2021 09:47:42

Lowest Band Edge / Full RB



Date: 29.DEC.2021 09:33:10

Highest Band Edge / Full RB

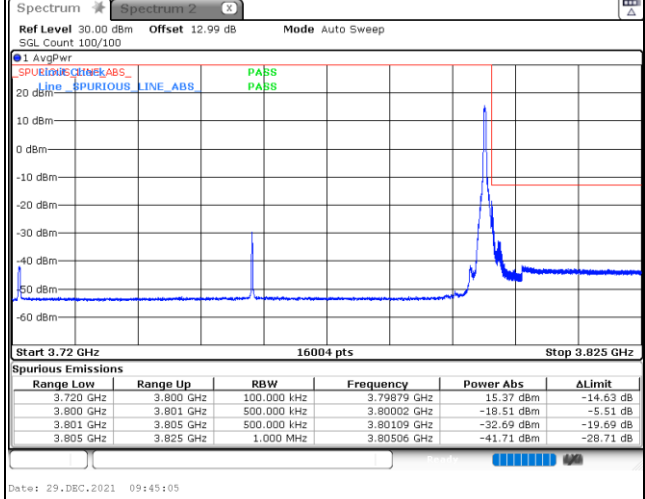
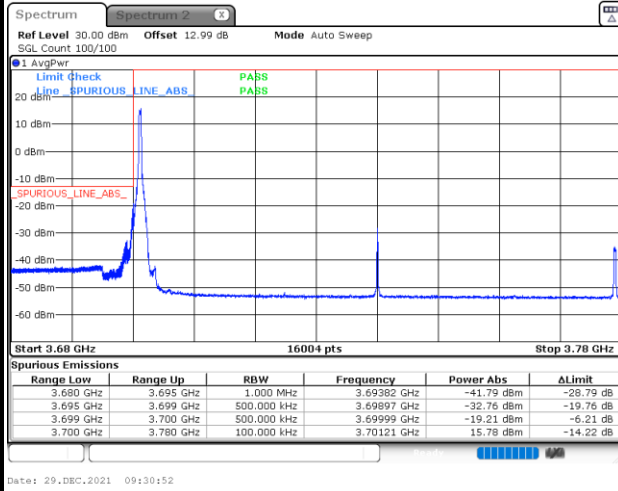


Date: 29.DEC.2021 09:42:49

FR1 n78 / 80MHz / DFT-S OFDM / 256QAM

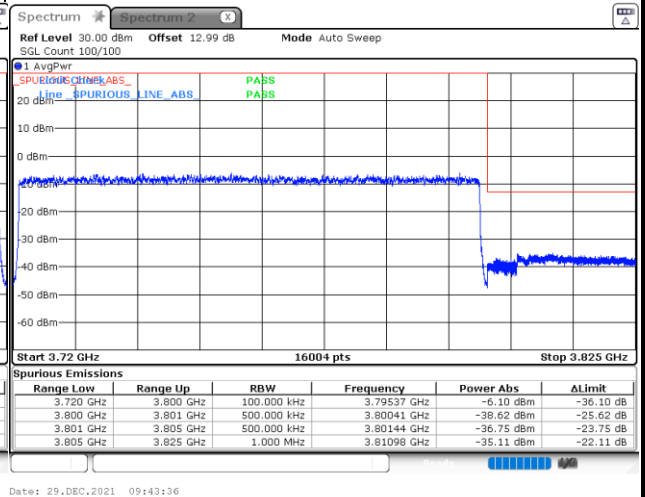
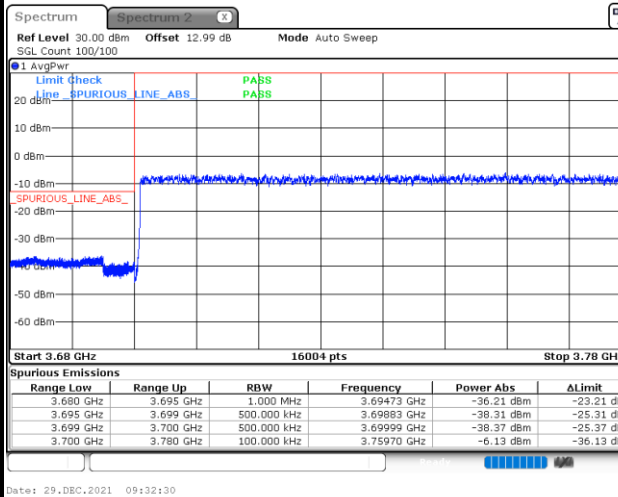
Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24



Lowest Band Edge / Full RB

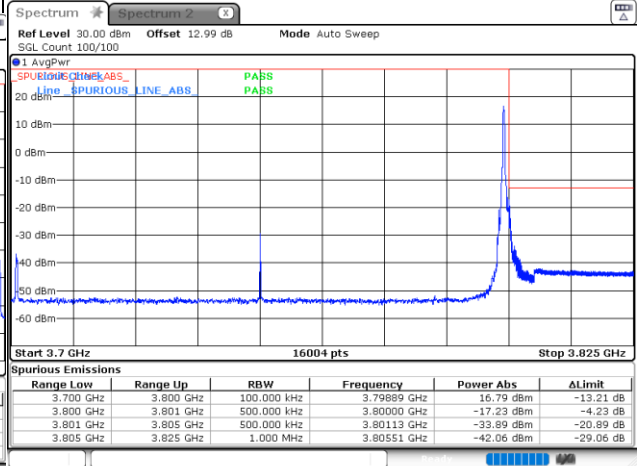
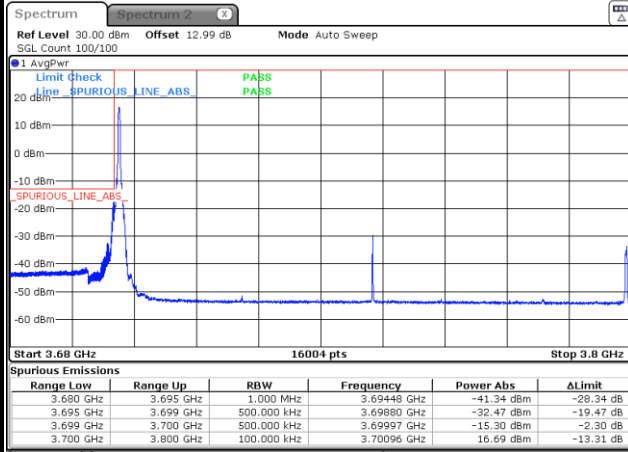
Highest Band Edge / Full RB



FR1 n78 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

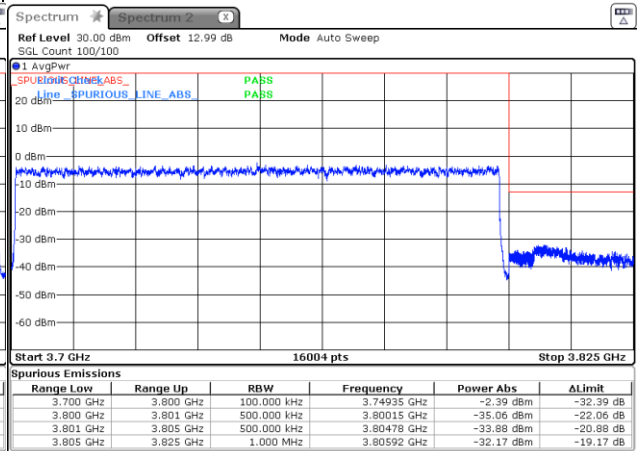
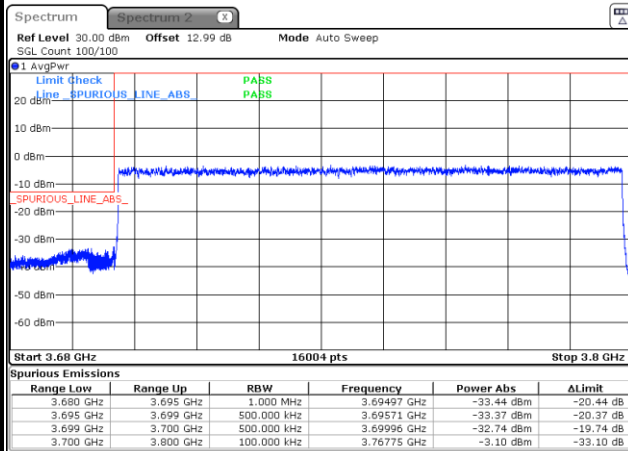


Date: 29.DEC.2021 07:21:33

Date: 30.DEC.2021 03:17:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



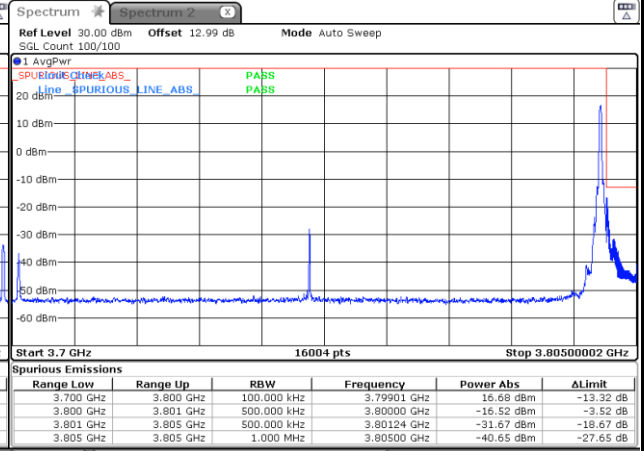
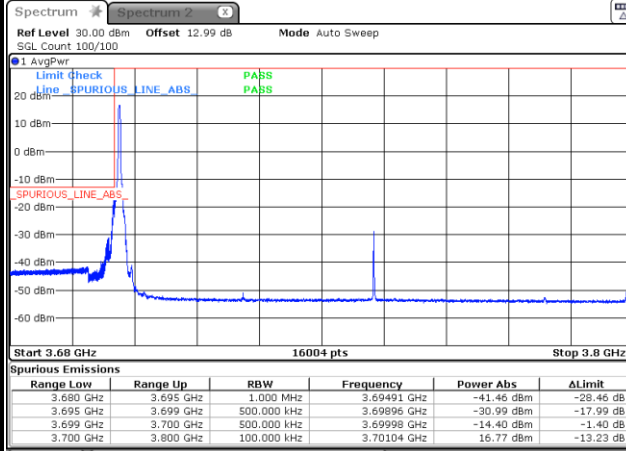
Date: 29.DEC.2021 07:05:21

Date: 29.DEC.2021 08:20:20

FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

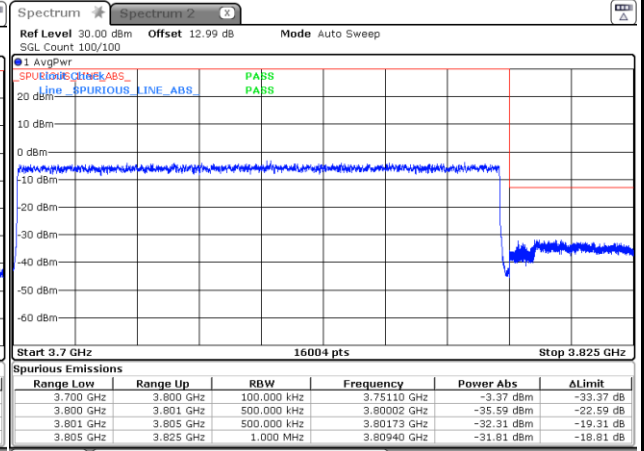
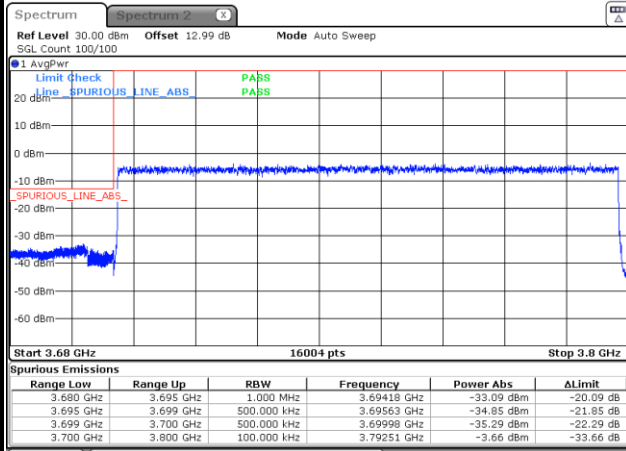


Date: 29.DEC.2021 07:20:37

Date: 30.DEC.2021 03:19:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



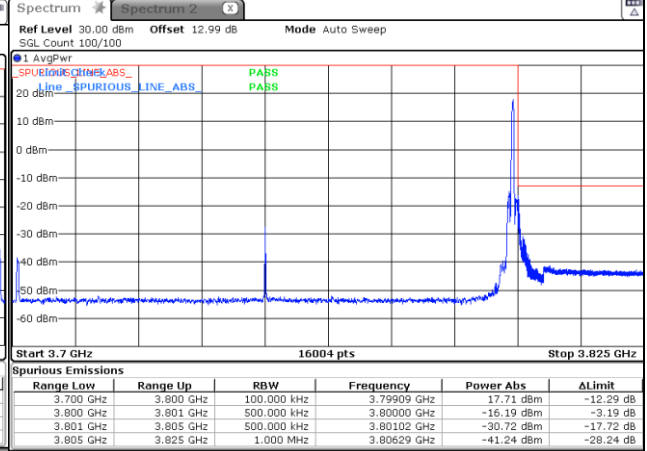
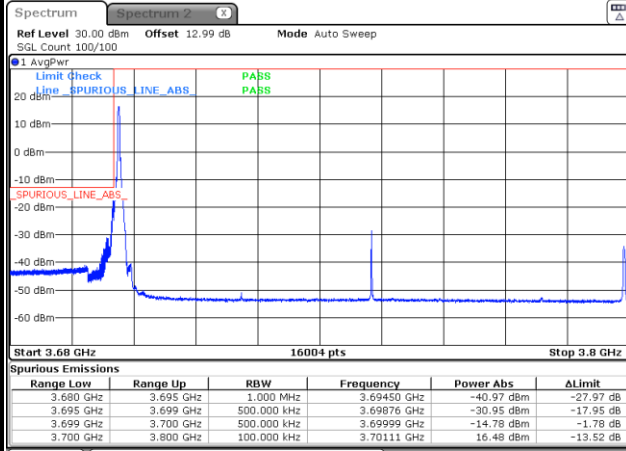
Date: 29.DEC.2021 07:10:30

Date: 29.DEC.2021 09:19:17

FR1 n78 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

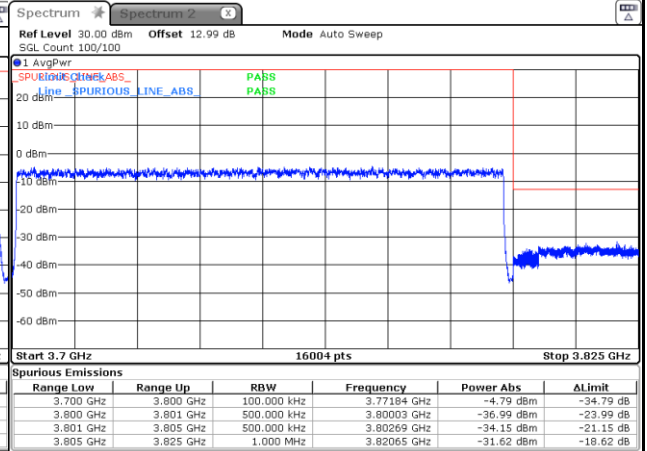
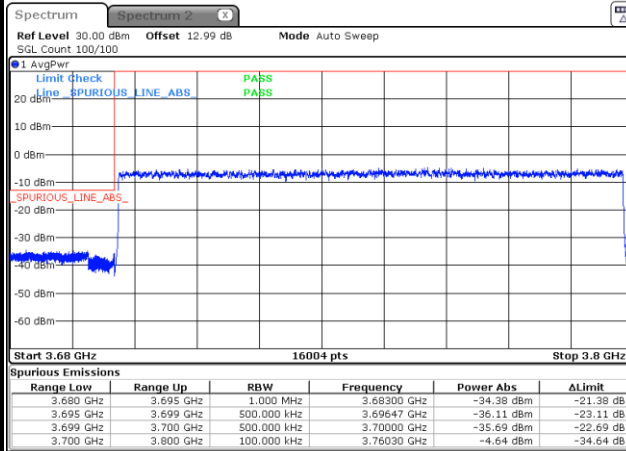


Date: 29.DEC.2021 07:18:25

Date: 30.DEC.2021 03:19:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



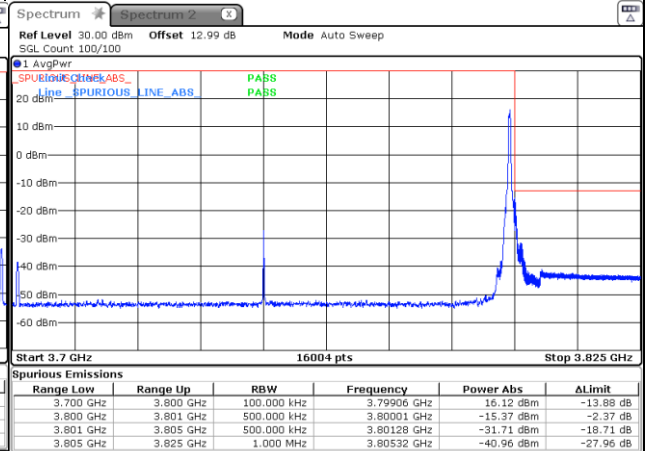
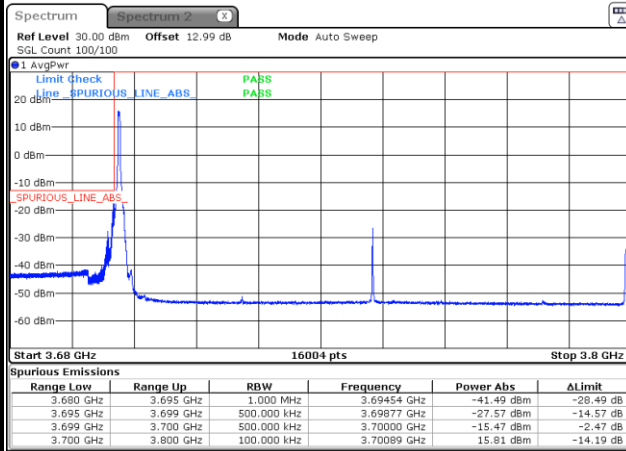
Date: 29.DEC.2021 08:22:10

Date: 29.DEC.2021 08:18:23

FR1 n78 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

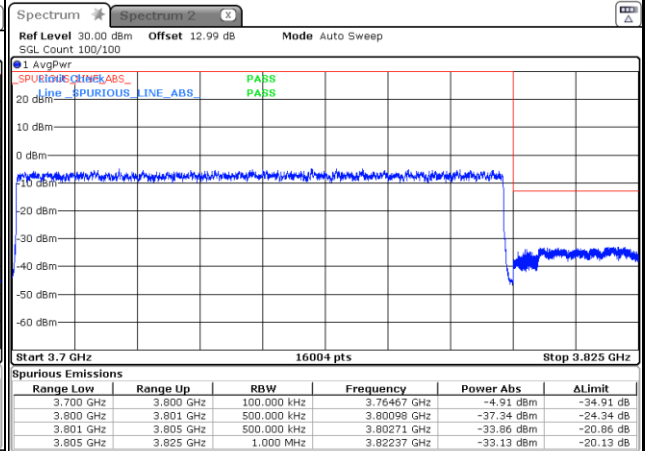
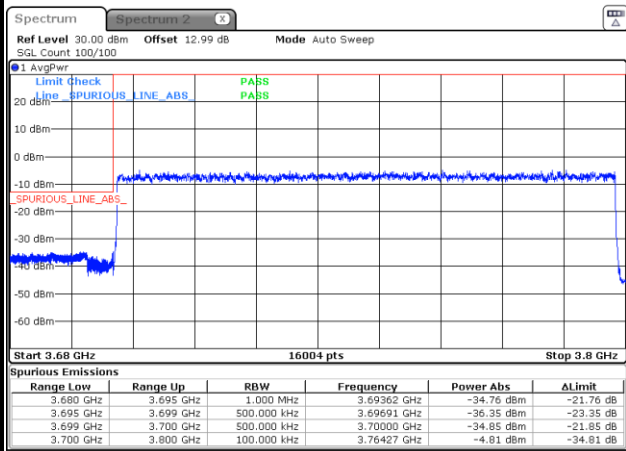


Date: 29.DEC.2021 07:17:32

Date: 30.DEC.2021 03:20:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



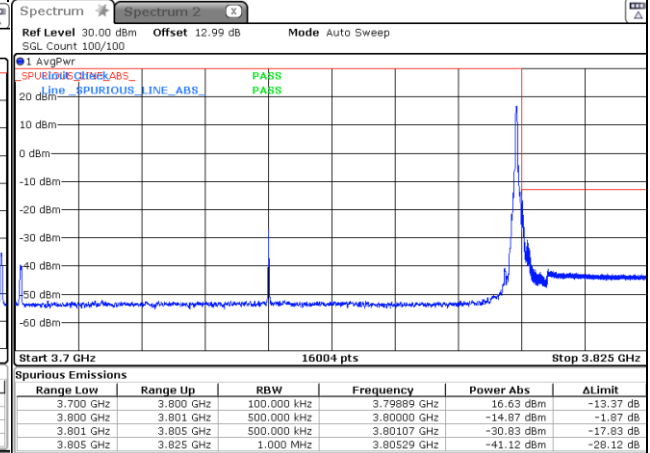
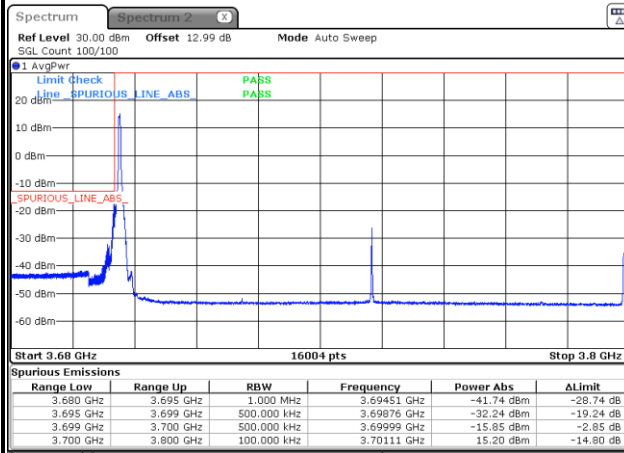
Date: 29.DEC.2021 07:13:31

Date: 29.DEC.2021 08:17:23

FR1 n78 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

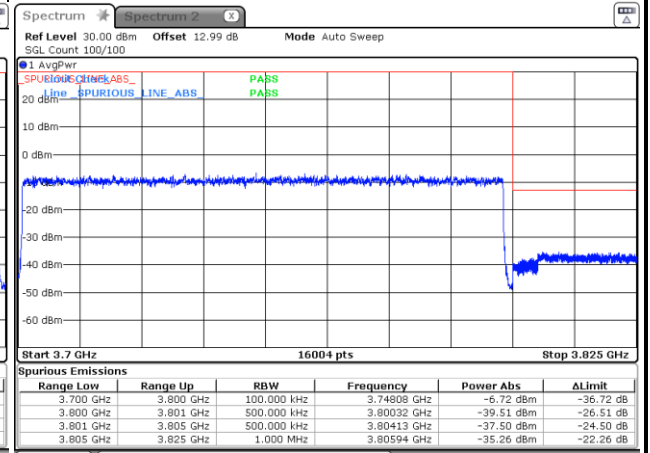
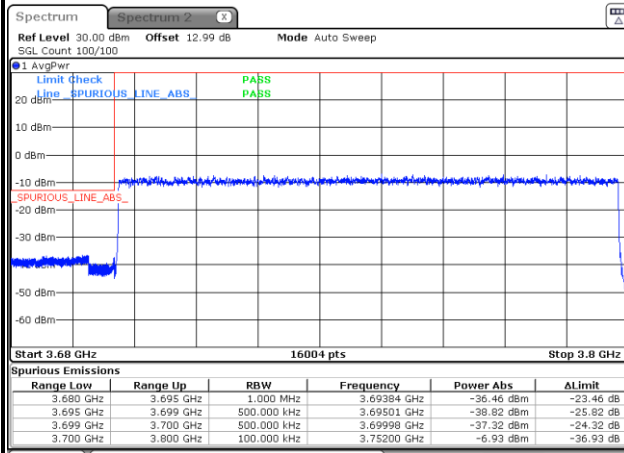


Date: 29.DEC.2021 07:16:40

Date: 30.DEC.2021 03:21:53

Lowest Band Edge / Full RB

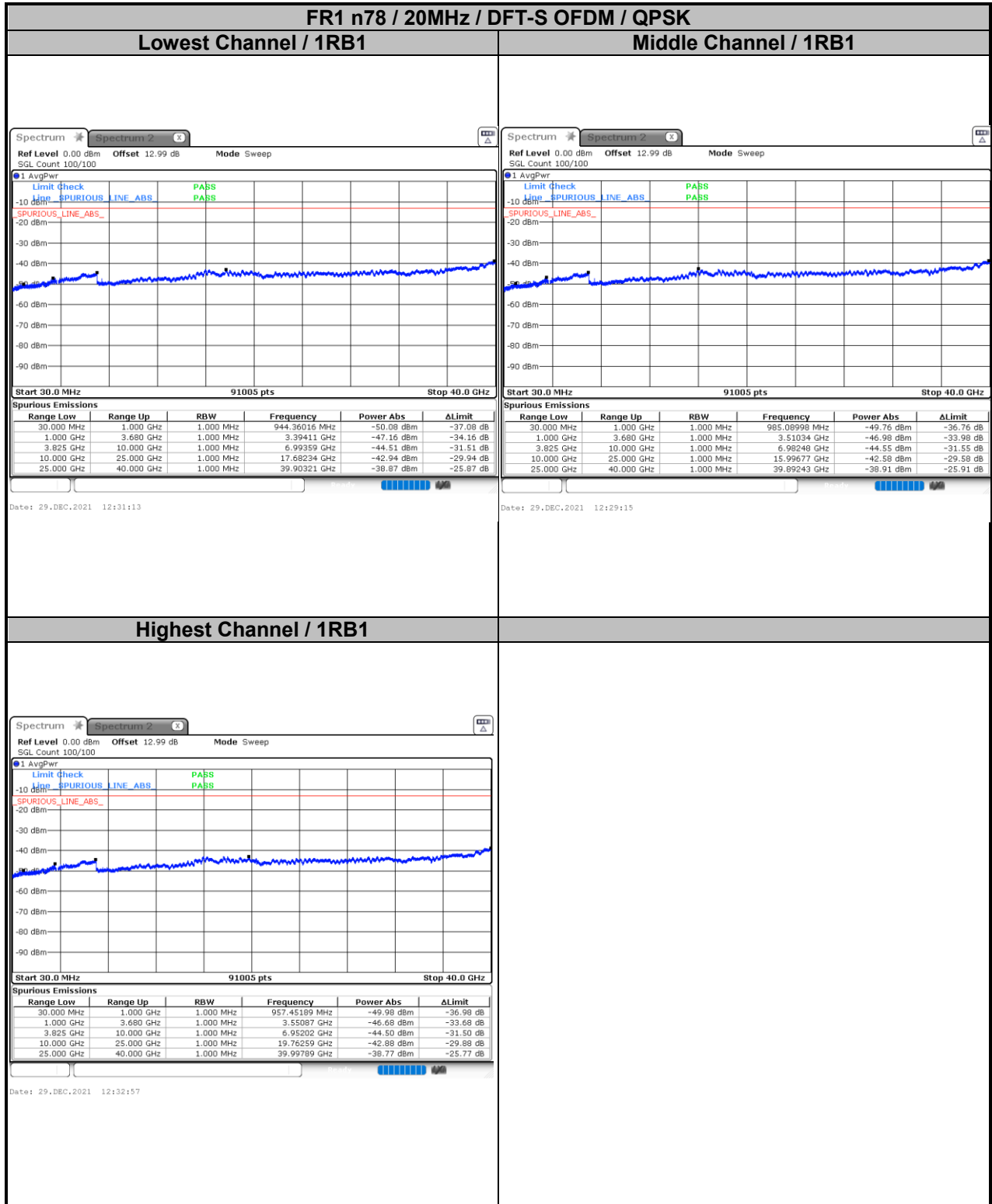
Highest Band Edge / Full RB



Date: 29.DEC.2021 08:23:26

Date: 29.DEC.2021 08:16:12

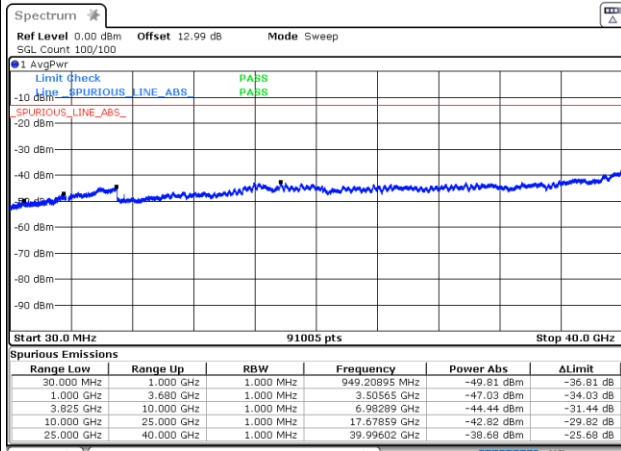
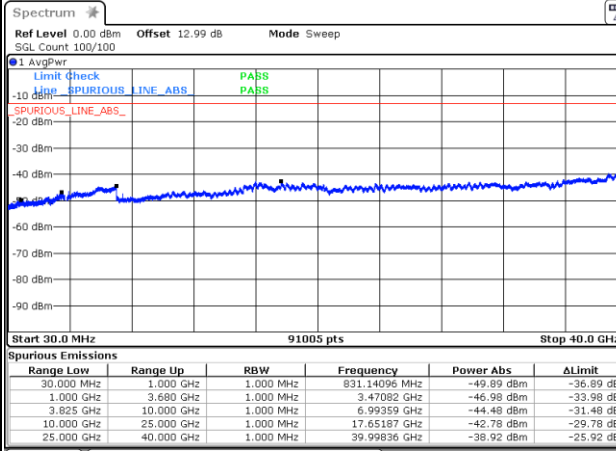
Conducted Spurious Emission



FR1 n78 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

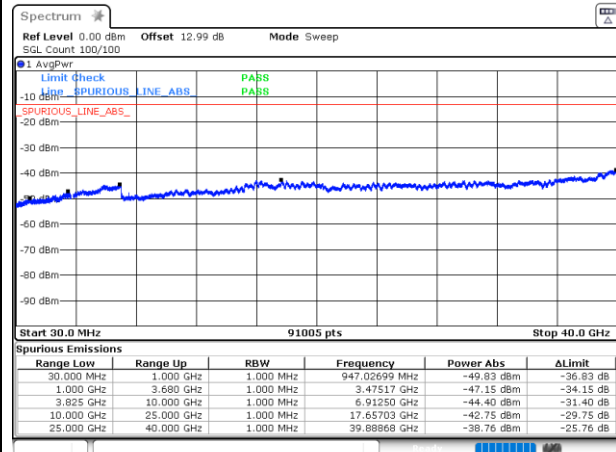
Middle Channel / 1RB1



Date: 30.DEC.2021 01:54:33

Date: 30.DEC.2021 01:52:52

Highest Channel / 1RB1

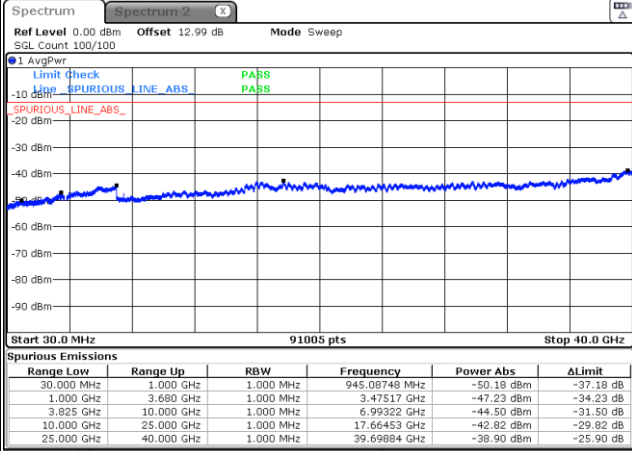
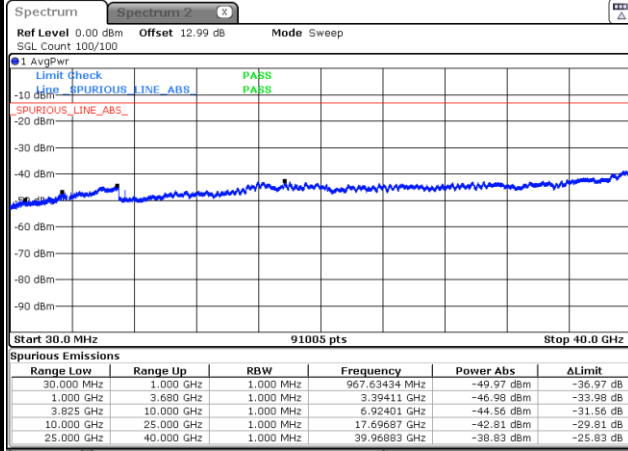


Date: 30.DEC.2021 01:56:57

FR1 n78 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

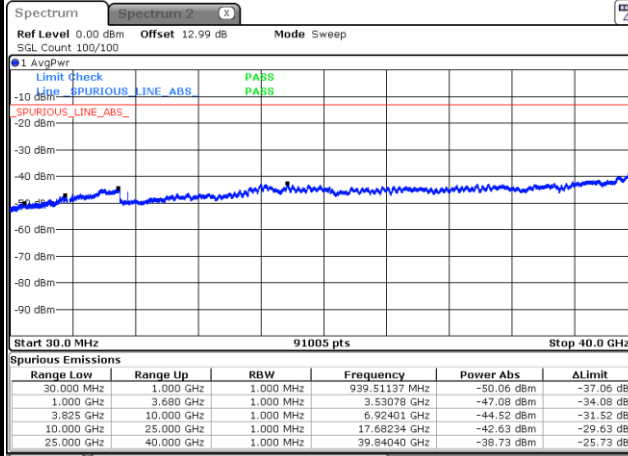
Middle Channel / 1RB1



Date: 29.DEC.2021 12:01:43

Date: 29.DEC.2021 11:59:51

Highest Channel / 1RB1

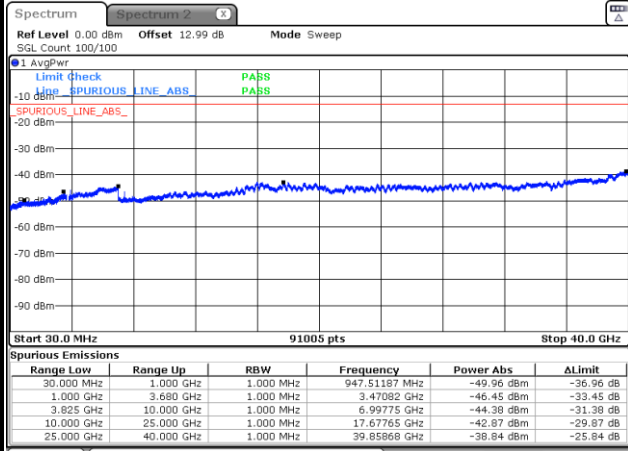


Date: 29.DEC.2021 12:03:21

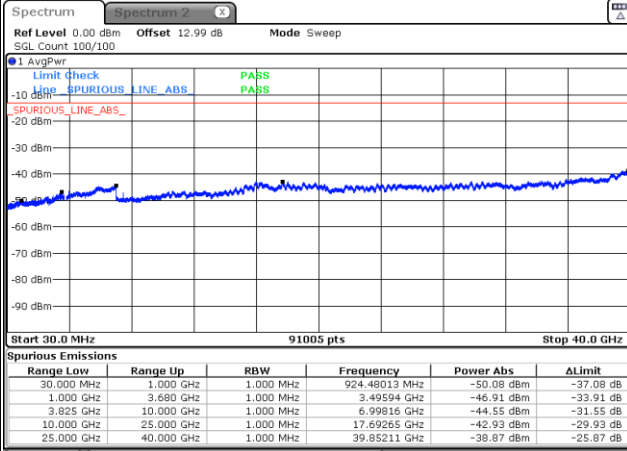
FR1 n78 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

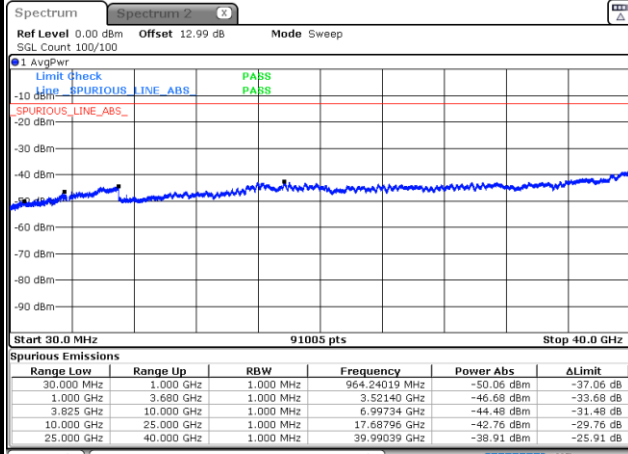


Date: 29.DEC.2021 11:10:11



Date: 29.DEC.2021 11:08:48

Highest Channel / 1RB1

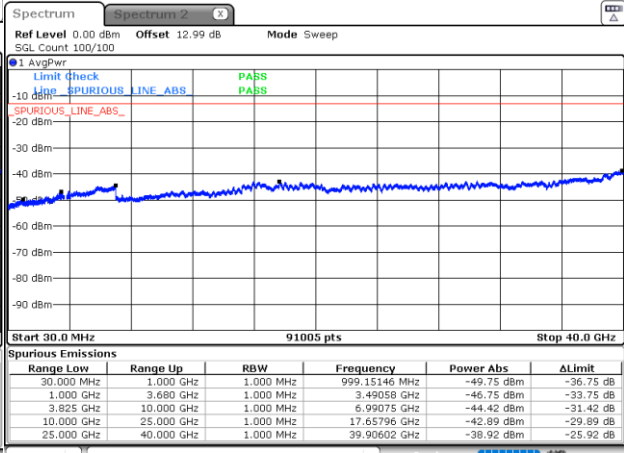
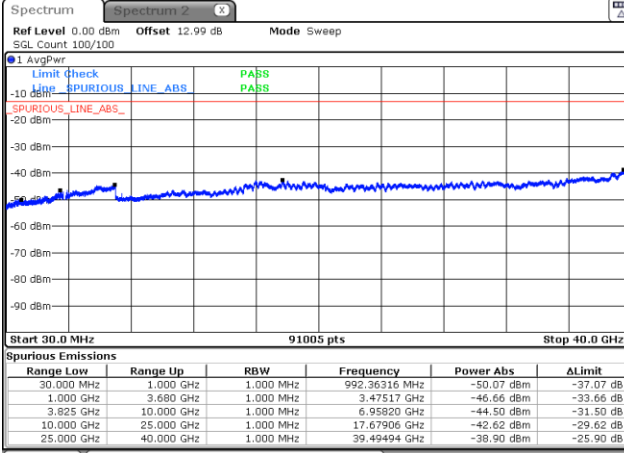


Date: 29.DEC.2021 11:12:05

FR1 n78 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

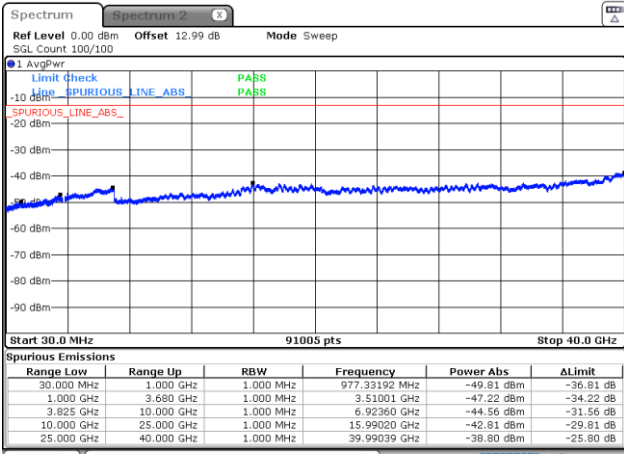
Middle Channel / 1RB1



Date: 29.DEC.2021 10:02:06

Date: 29.DEC.2021 09:59:55

Highest Channel / 1RB1

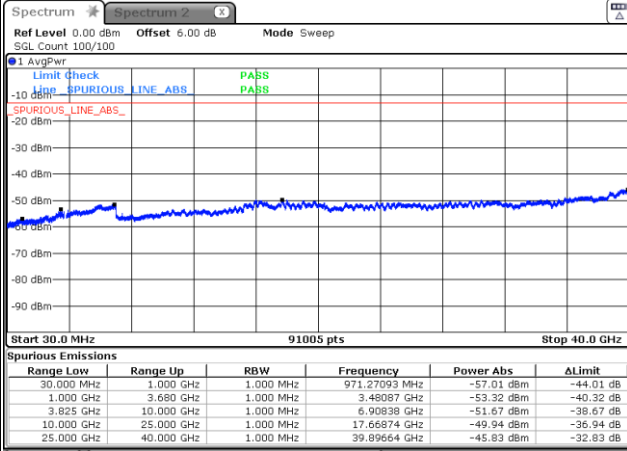
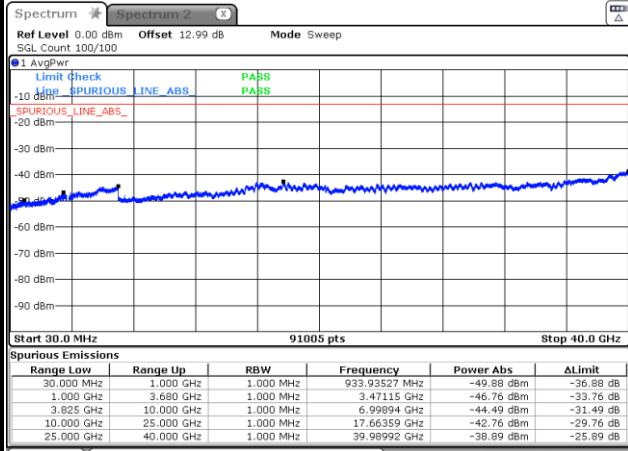


Date: 29.DEC.2021 10:03:45

FR1 n78 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

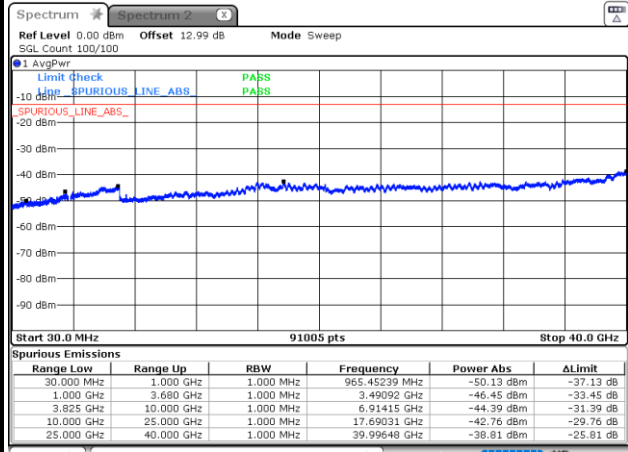
Middle Channel / 1RB1



Date: 29.DEC.2021 08:41:20

Date: 29.DEC.2021 08:37:01

Highest Channel / 1RB1



Date: 29.DEC.2021 08:43:08

Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna, we choose the worst antenna mode to test.

SA n77 / NR 40MHz / QPSK DFT-s-OFDM / ANT5								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590.18	-61.74	-13	-48.74	-72.22	2.76	13.24	H
	11375	-56.76	-13	-43.76	-66.35	3.42	13.01	H
	15180	-57.60	-13	-44.60	-67.21	3.83	13.44	H
	7590	-61.72	-13	-48.72	-72.16	2.80	13.24	V
	11375	-58.00	-13	-45.00	-67.55	3.46	13.01	V
	15180	-57.84	-13	-44.84	-67.40	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n77 / LTE 20MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT5(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-62.16	-13	-49.16	-72.64	2.76	13.24	H
	11376	-56.45	-13	-43.45	-66.04	3.42	13.01	H
	15168	-54.06	-13	-41.06	-63.67	3.83	13.44	H
	7590	-62.18	-13	-49.18	-72.62	2.80	13.24	V
	11376	-58.32	-13	-45.32	-67.87	3.46	13.01	V
	15162	-55.75	-13	-42.75	-65.31	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



SA n78 / NR 100MHz / QPSK DFT-s-OFDM / ANT5								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7416	-60.46	-13	-47.46	-70.94	2.76	13.24	H
	11100	-55.22	-13	-42.22	-64.81	3.42	13.01	H
	14808	-51.10	-13	-38.10	-60.71	3.83	13.44	H
	7416	-63.03	-13	-50.03	-73.47	2.80	13.24	V
	11100	-60.57	-13	-47.57	-70.12	3.46	13.01	V
	14808	-58.71	-13	-45.71	-68.27	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_38A_n78 / LTE 20MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT5(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7416	-60.45	-13	-47.45	-70.93	2.76	13.24	H
	11100	-56.74	-13	-43.74	-66.33	3.42	13.01	H
	14808	-48.25	-13	-35.25	-57.86	3.83	13.44	H
	7416	-60.42	-13	-47.42	-70.86	2.80	13.24	V
	11100	-56.48	-13	-43.48	-66.03	3.46	13.01	V
	14808	-49.26	-13	-36.26	-58.82	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.