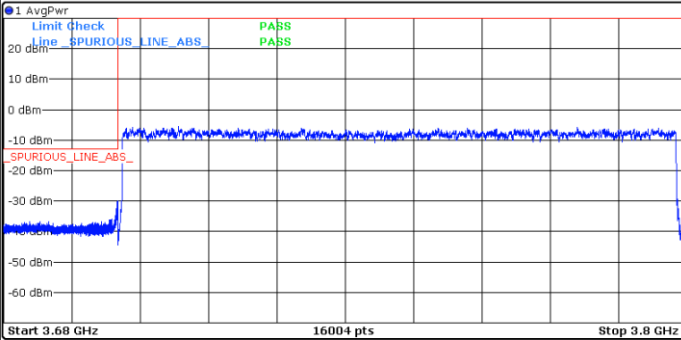




Lowest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 13.49 dB Mode Auto Sweep
SGL Count 100/100

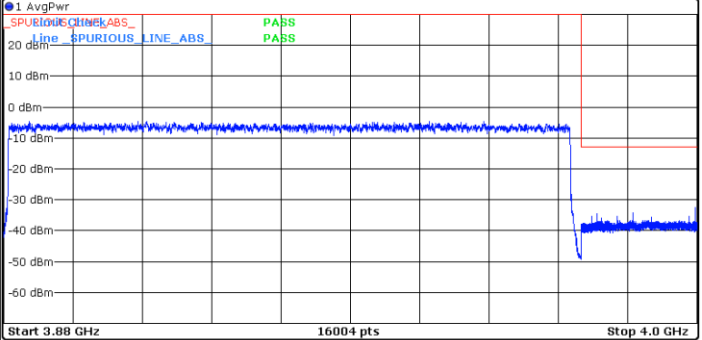
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.68634 GHz	-36.70 dBm	-23.70 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69897 GHz	-35.94 dBm	-22.94 dB
3.699 GHz	3.700 GHz	1.000 MHz	3.70000 GHz	-30.05 dBm	-17.05 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.71066 GHz	-5.57 dBm	-35.57 dB

Date: 27.NOV.2021 10:15:39

Highest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 13.49 dB Mode Auto Sweep
SGL Count 100/100

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.88441 GHz	-4.57 dBm	-34.57 dB
3.980 GHz	3.981 GHz	1.000 MHz	3.98042 GHz	-37.51 dBm	-24.51 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98271 GHz	-34.41 dBm	-21.41 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.99966 GHz	-32.43 dBm	-19.43 dB

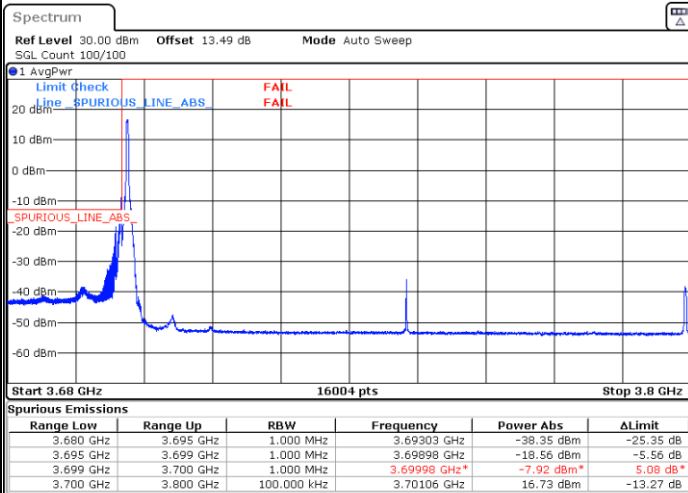
Date: 27.NOV.2021 14:45:10



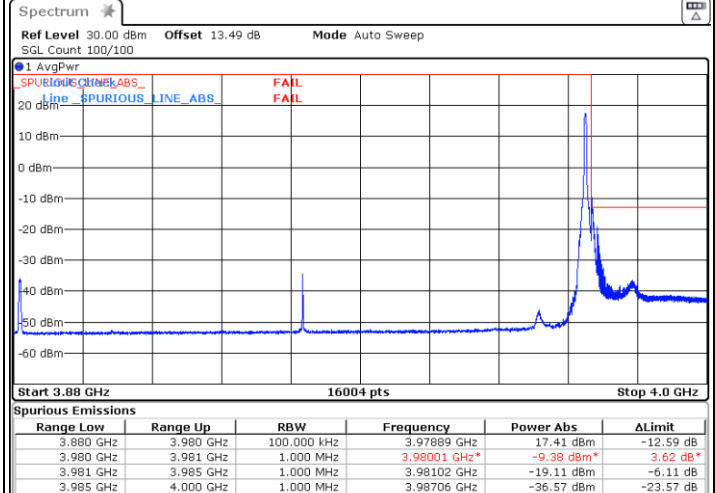
FR1 n77 / 100MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

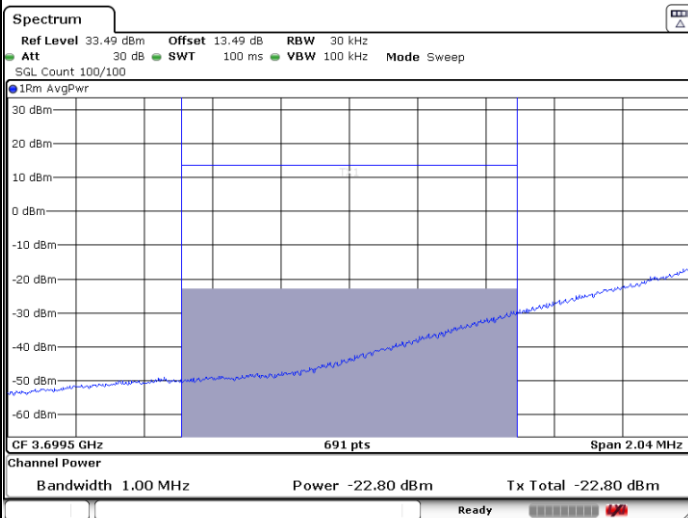
Highest Band Edge / 1RBmax



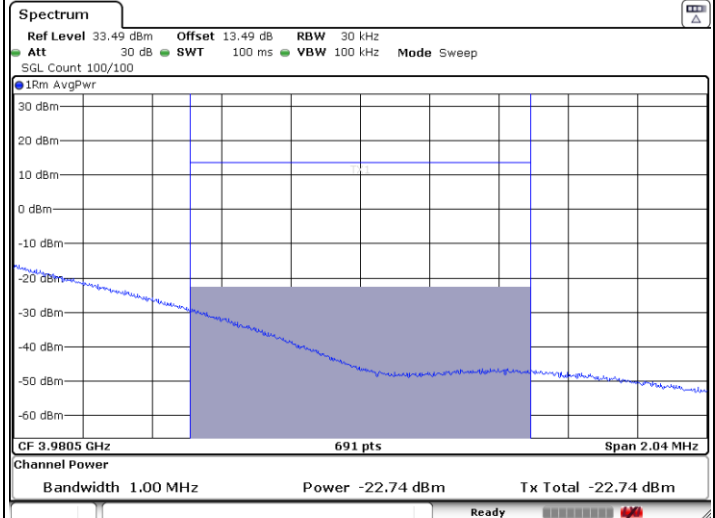
Date: 27.NOV.2021 10:09:26



Date: 27.NOV.2021 14:06:14



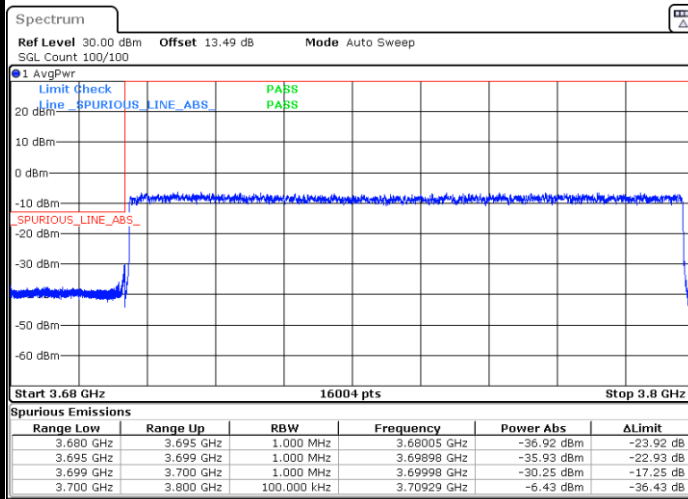
Date: 27.NOV.2021 15:58:07



Date: 27.NOV.2021 16:03:00

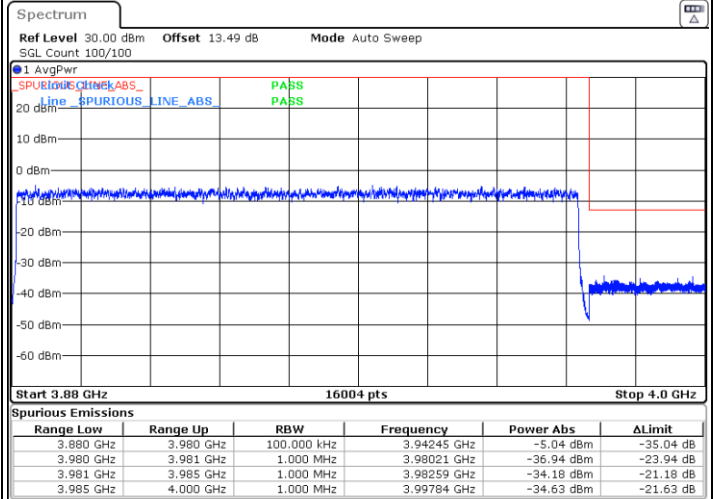


Lowest Band Edge / Full RB



Date: 27.NOV.2021 10:16:52

Highest Band Edge / Full RB

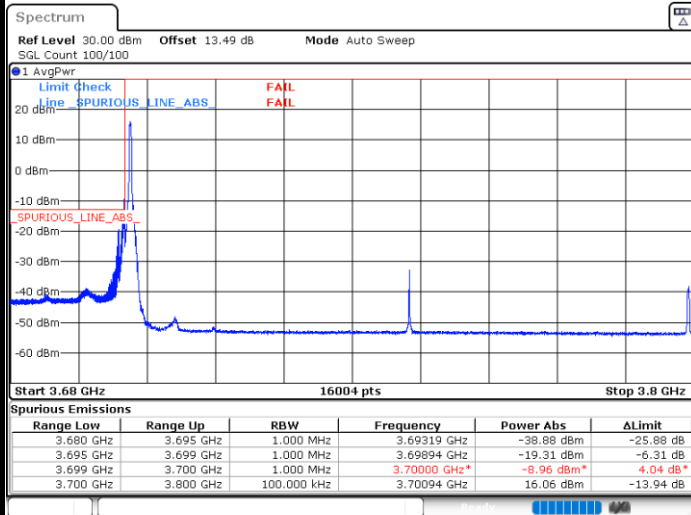


Date: 27.NOV.2021 14:44:16

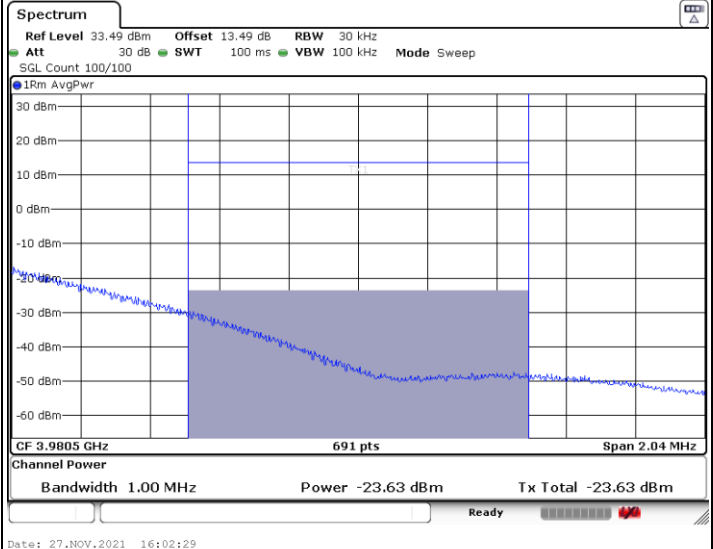
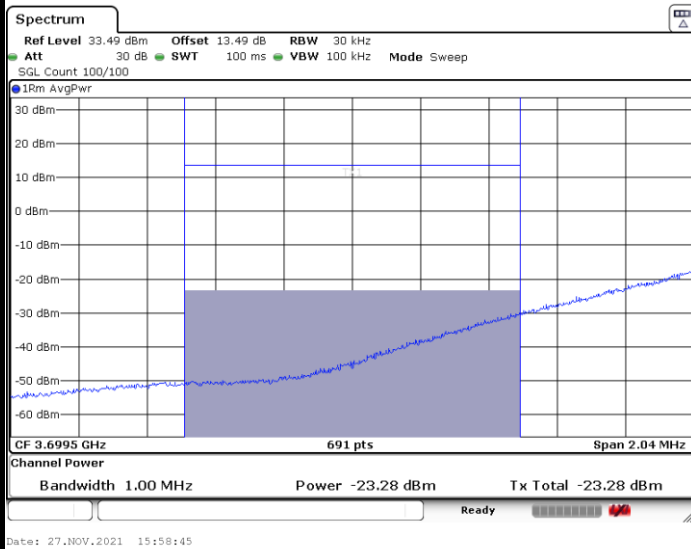
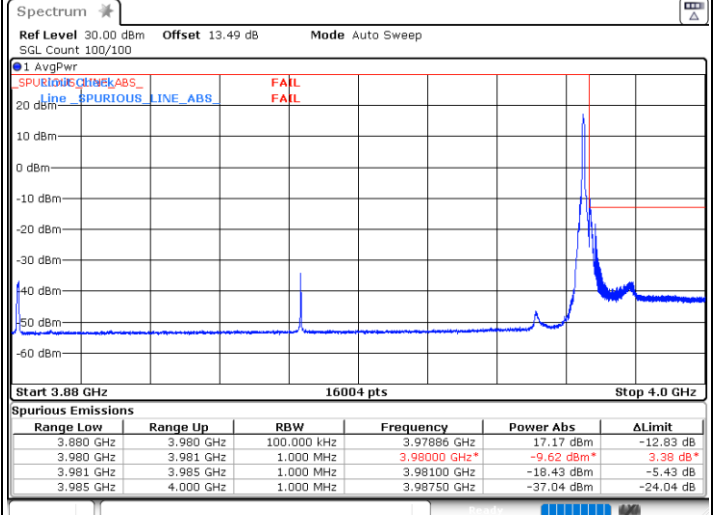


FR1 n77 / 100MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



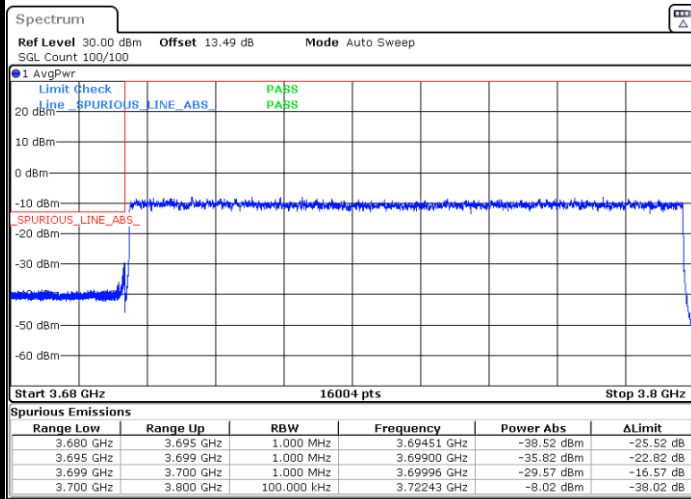
Highest Band Edge / 1RB24



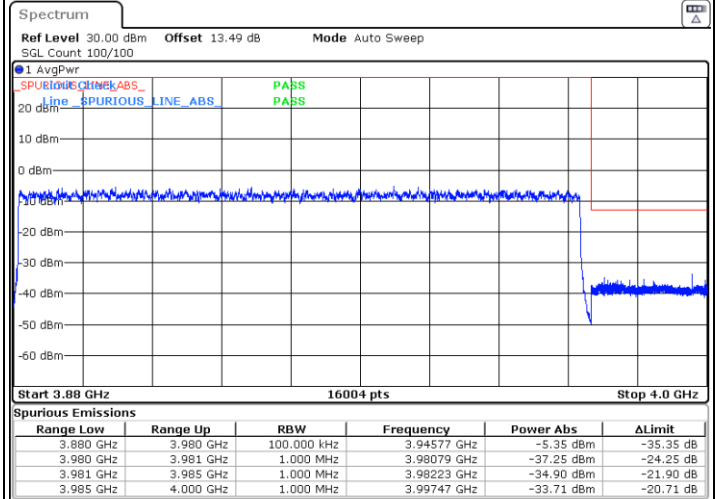


Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.NOV.2021 10:17:38

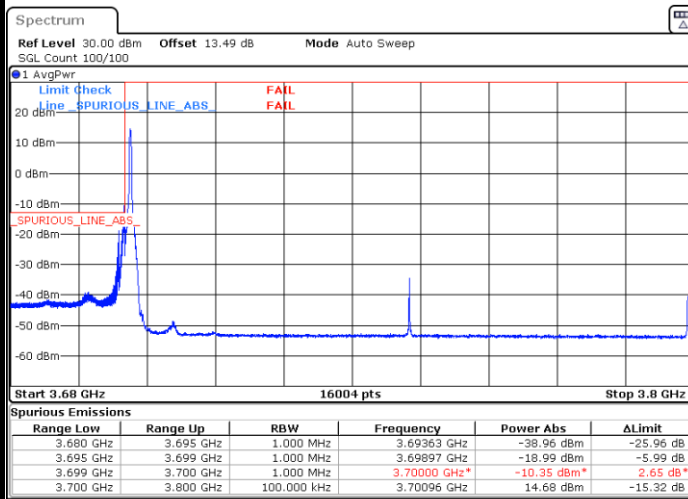


Date: 27.NOV.2021 14:43:21



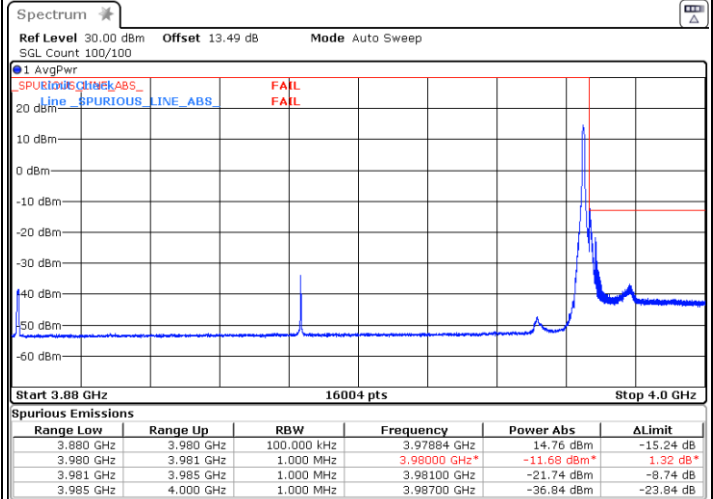
FR1 n77 / 100MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

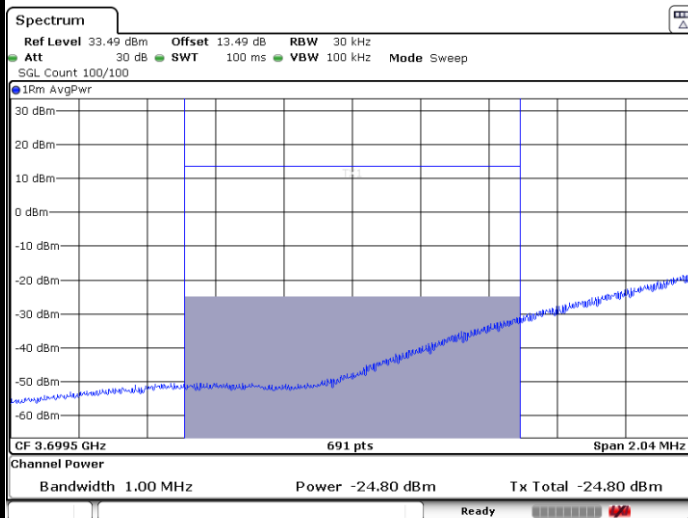


Date: 27.NOV.2021 10:11:58

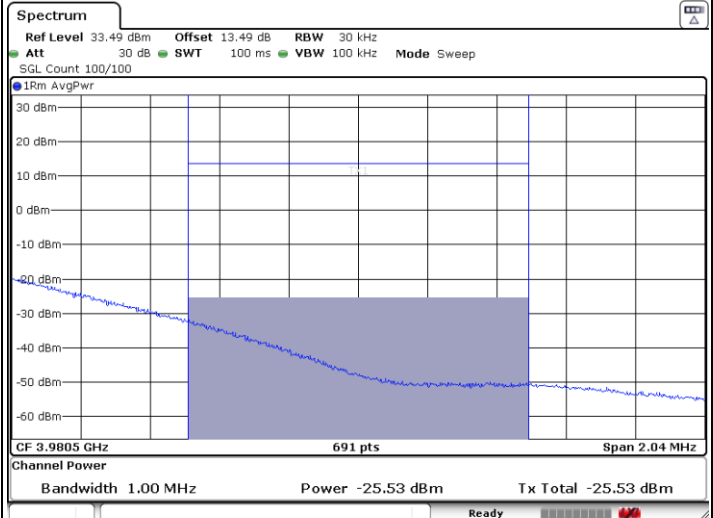
Highest Band Edge / 1RB24



Date: 27.NOV.2021 14:40:11



Date: 27.NOV.2021 16:00:10

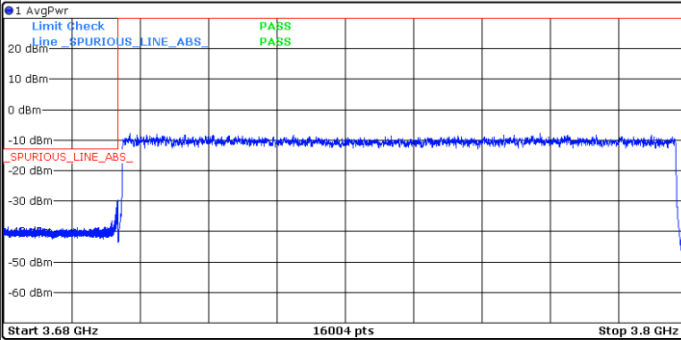


Date: 27.NOV.2021 16:01:53



Lowest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 13.49 dB Mode Auto Sweep
SGL Count 100/100

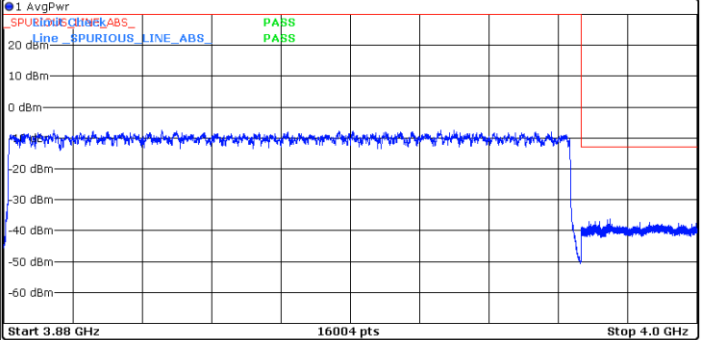
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.680 GHz	3.695 GHz	1.000 MHz	3.68074 GHz	-38.57 dBm	-25.57 dB
3.695 GHz	3.699 GHz	1.000 MHz	3.69897 GHz	-36.39 dBm	-23.39 dB
3.699 GHz	3.700 GHz	1.000 MHz	3.70000 GHz	-29.69 dBm	-16.69 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.77419 GHz	-7.87 dBm	-37.87 dB

Date: 27.NOV.2021 10:19:25

Highest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 13.49 dB Mode Auto Sweep
SGL Count 100/100

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.90733 GHz	-7.40 dBm	-37.40 dB
3.980 GHz	3.981 GHz	1.000 MHz	3.98004 GHz	-38.77 dBm	-25.77 dB
3.981 GHz	3.985 GHz	1.000 MHz	3.98499 GHz	-36.23 dBm	-23.23 dB
3.985 GHz	4.000 GHz	1.000 MHz	3.99175 GHz	-37.21 dBm	-24.21 dB

Date: 27.NOV.2021 14:42:19

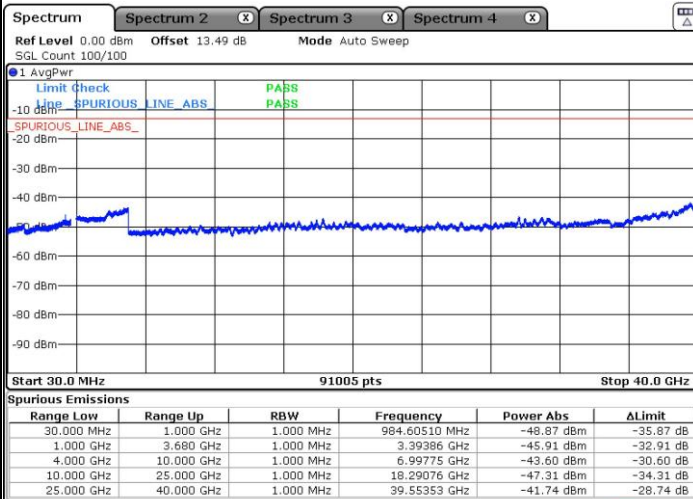


Conducted Spurious Emission

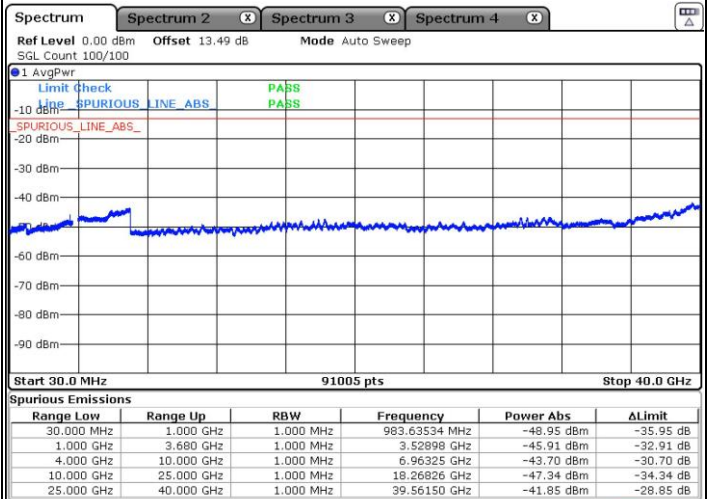
FR1 n77 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

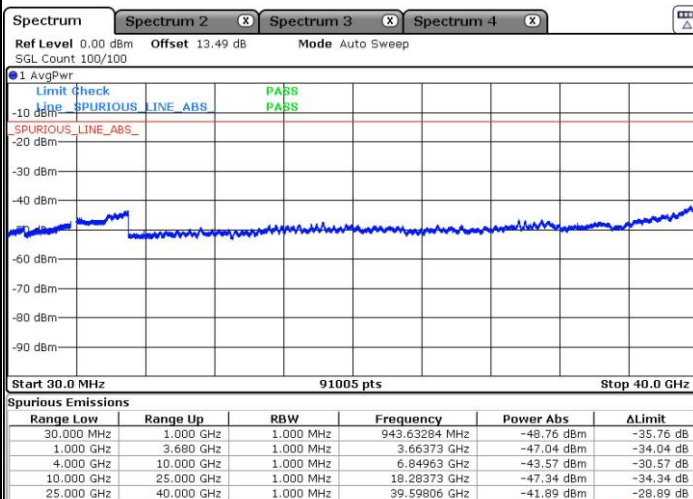


Date: 2.DEC.2021 17:14:02



Date: 2.DEC.2021 17:12:43

Highest Channel / 1RB1

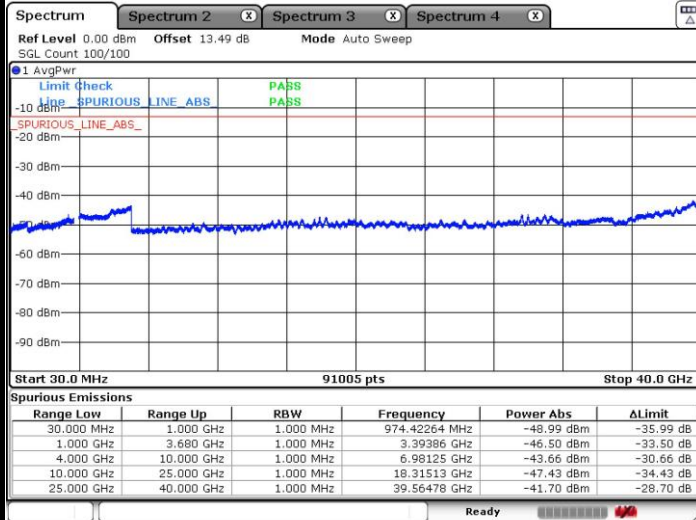


Date: 2.DEC.2021 17:37:11



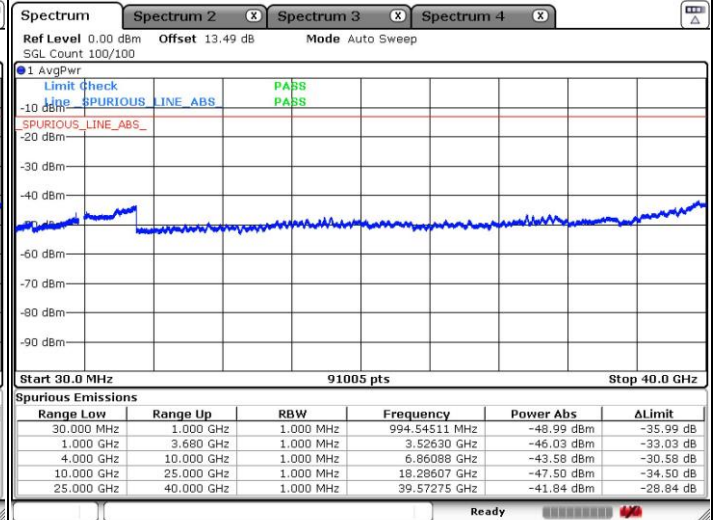
FR1 n77 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



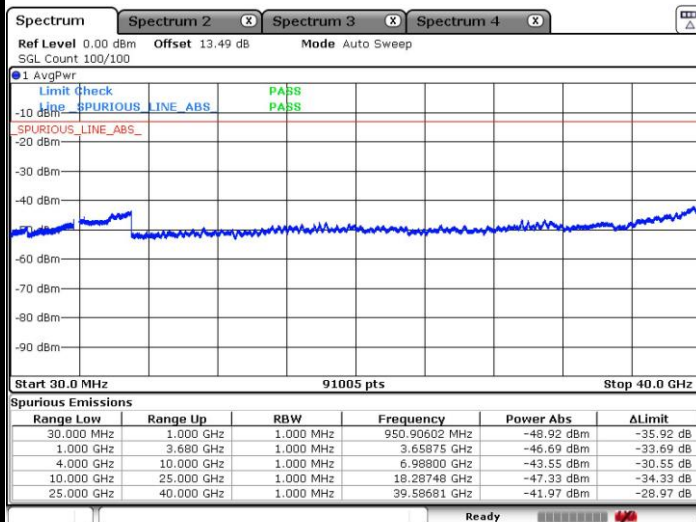
Date: 2.DEC.2021 18:00:37

Middle Channel / 1RB1



Date: 2.DEC.2021 17:58:37

Highest Channel / 1RB1

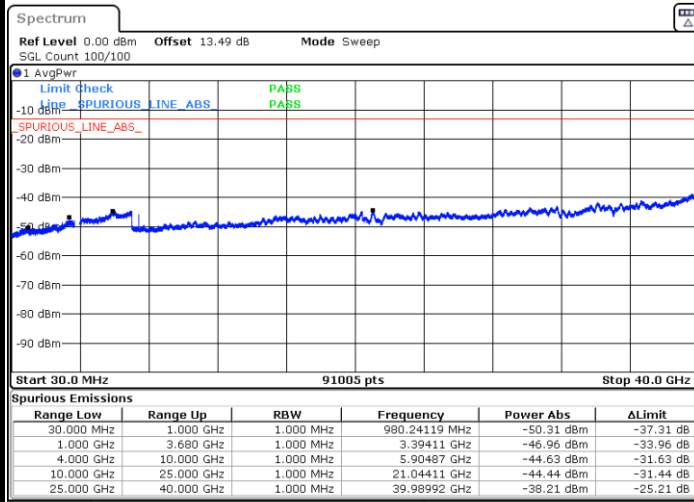


Date: 2.DEC.2021 18:18:34



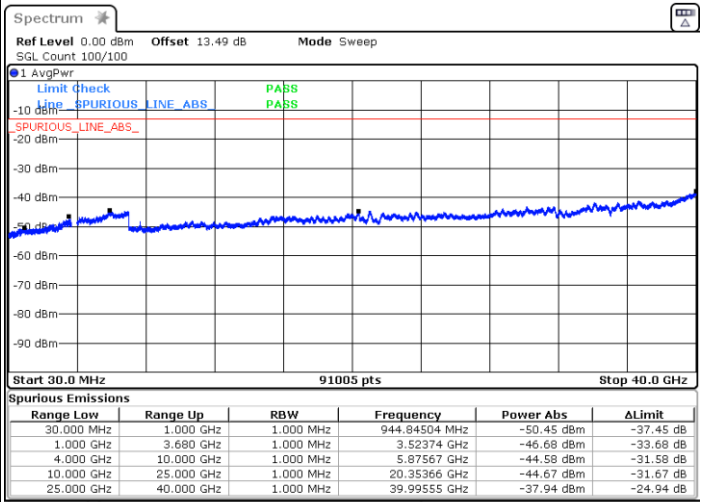
FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



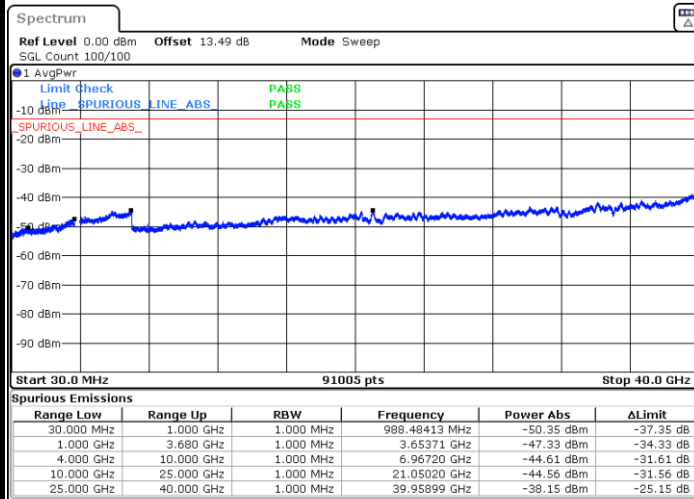
Date: 26.NOV.2021 20:35:52

Middle Channel / 1RB1



Date: 26.NOV.2021 20:34:26

Highest Channel / 1RB1

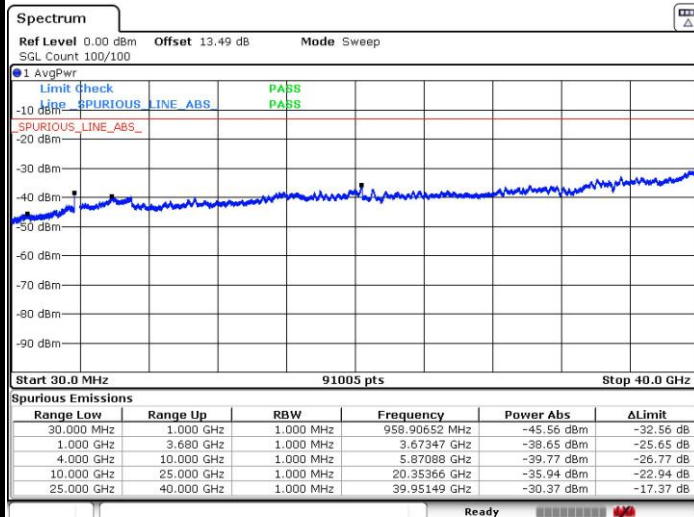


Date: 26.NOV.2021 20:37:58



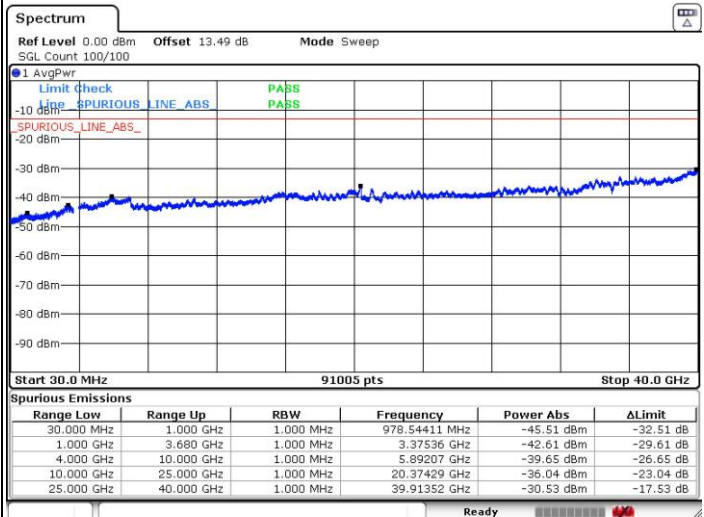
FR1 n77 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



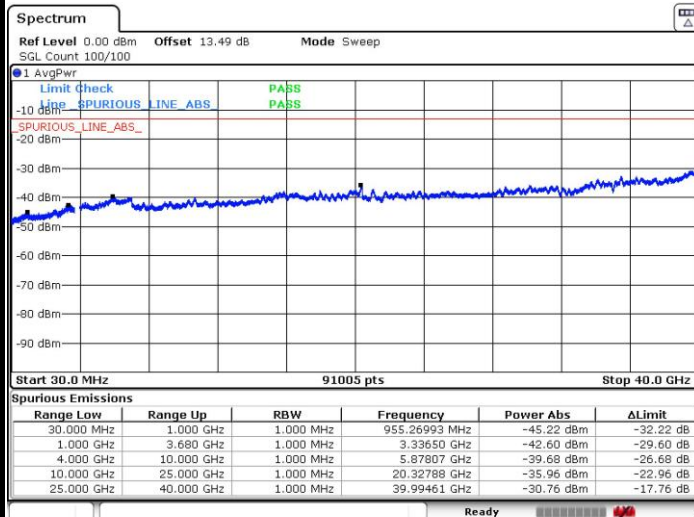
Date: 26.NOV.2021 21:11:54

Middle Channel / 1RB1



Date: 26.NOV.2021 21:18:14

Highest Channel / 1RB1



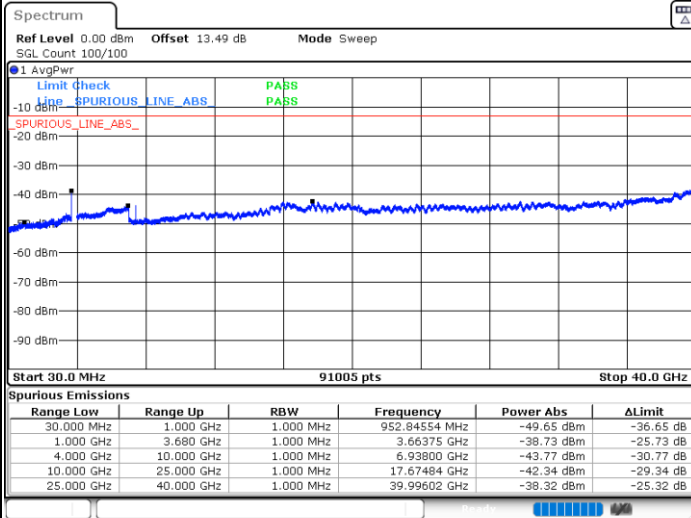
Date: 26.NOV.2021 21:37:10



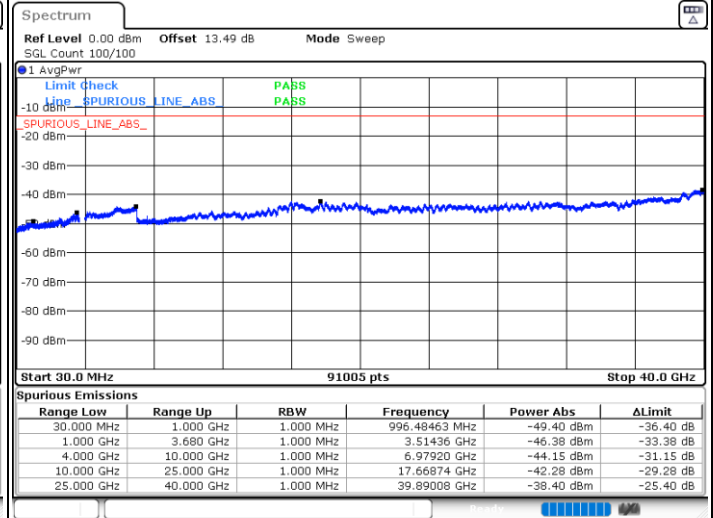
FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

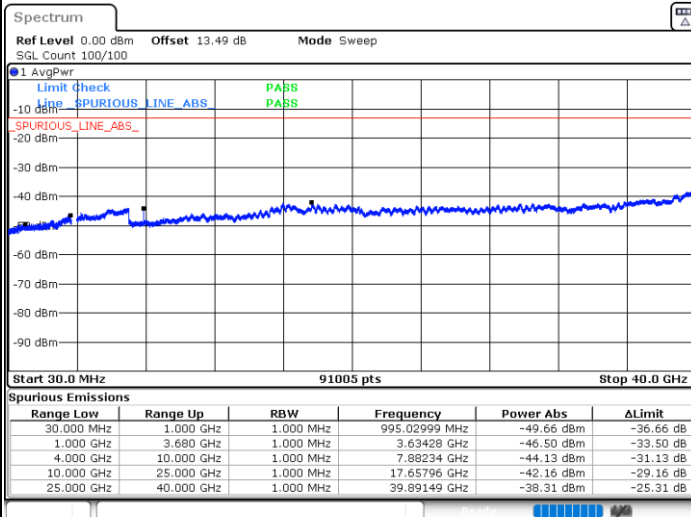


Date: 27.NOV.2021 05:33:17



Date: 27.NOV.2021 05:35:48

Highest Channel / 1RB1

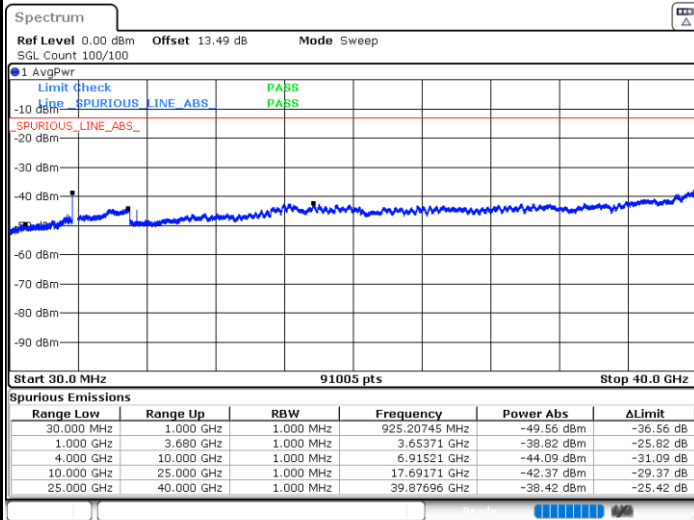


Date: 27.NOV.2021 05:37:26

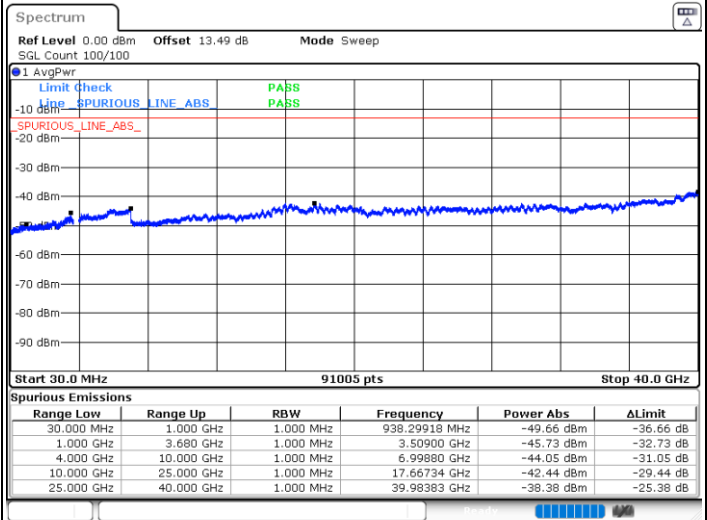


FR1 n77 / 50MHz / DFT-S OFDM / QPSK

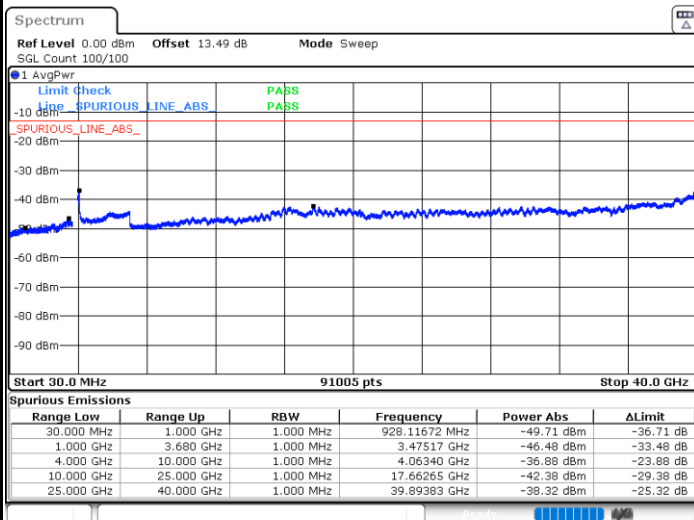
Lowest Channel / 1RB1



Middle Channel / 1RB1



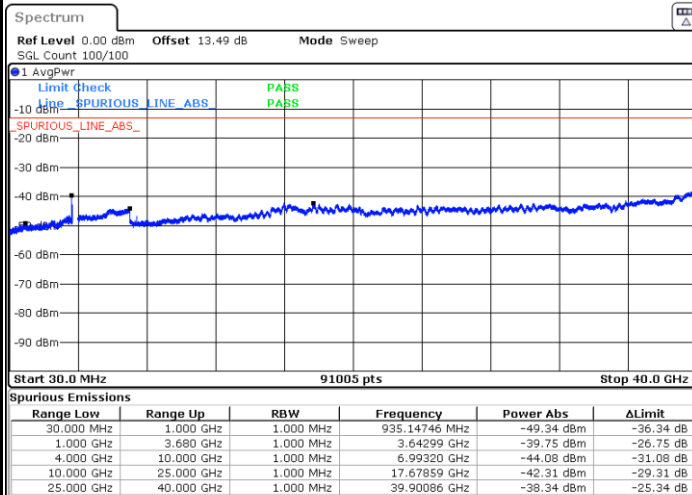
Highest Channel / 1RB1





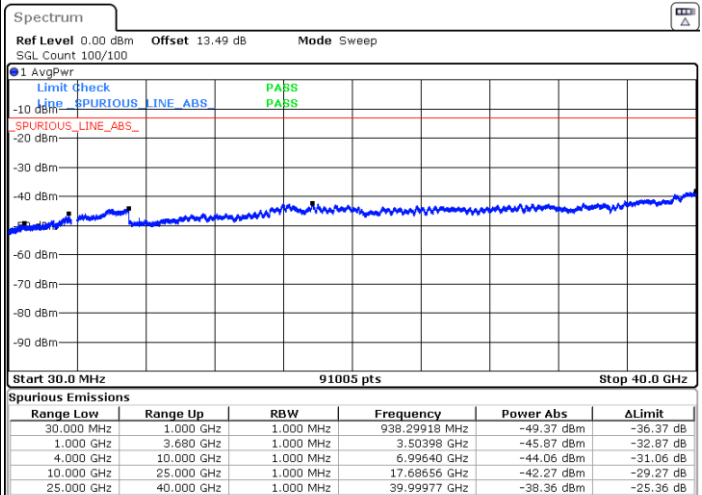
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



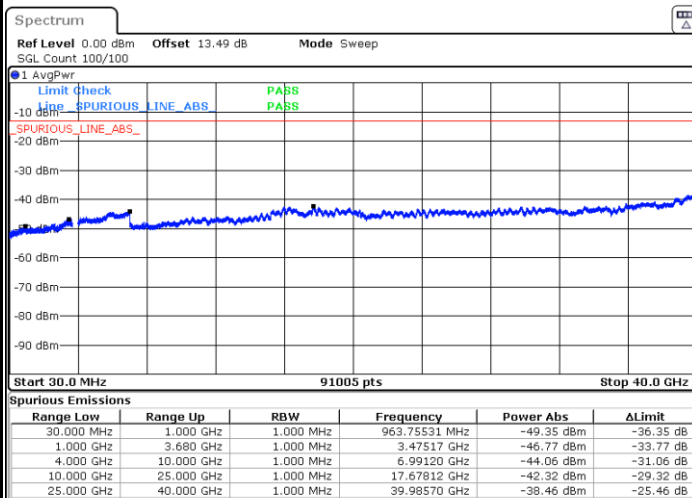
Date: 27.NOV.2021 07:22:48

Middle Channel / 1RB1



Date: 27.NOV.2021 07:24:21

Highest Channel / 1RB1

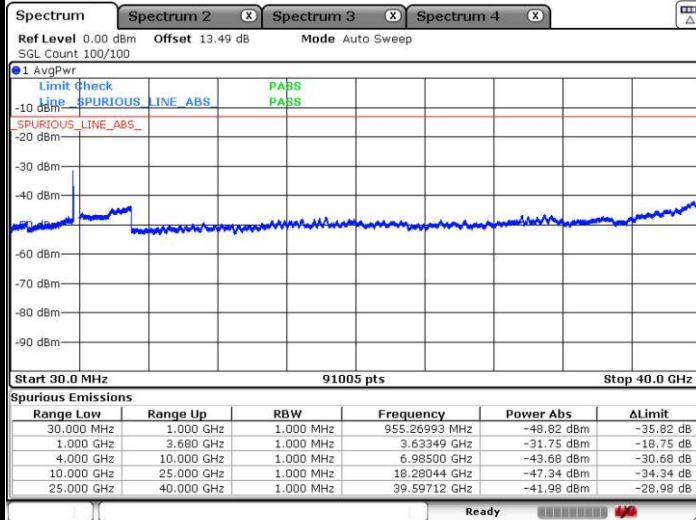


Date: 27.NOV.2021 07:26:05



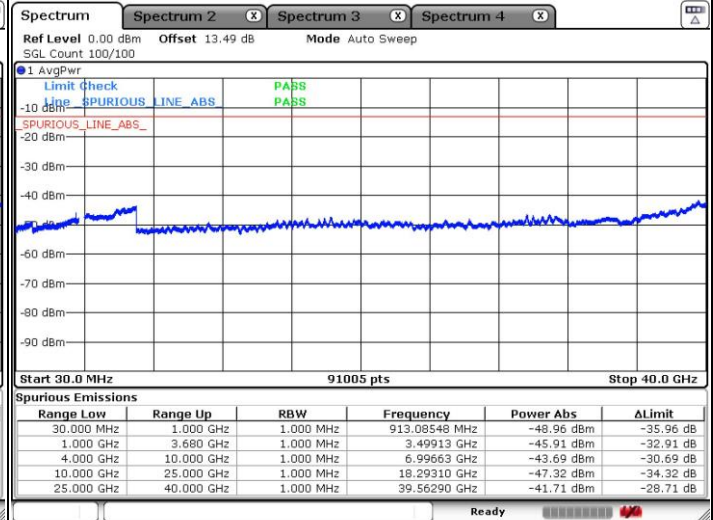
FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



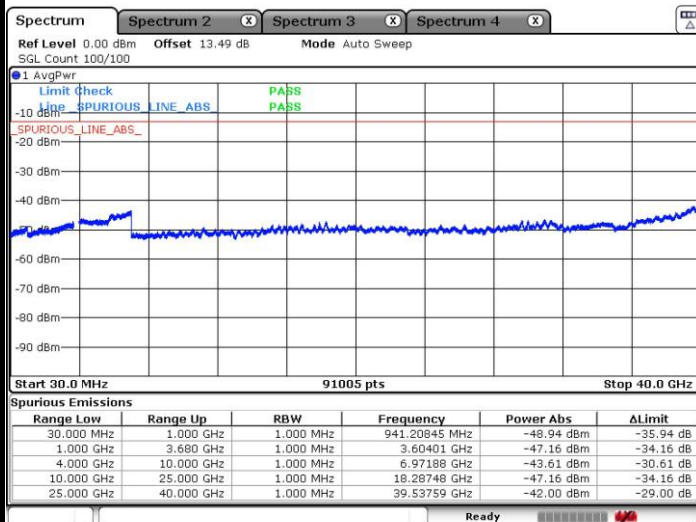
Date: 2.DEC.2021 18:39:45

Middle Channel / 1RB1



Date: 2.DEC.2021 18:38:00

Highest Channel / 1RB1

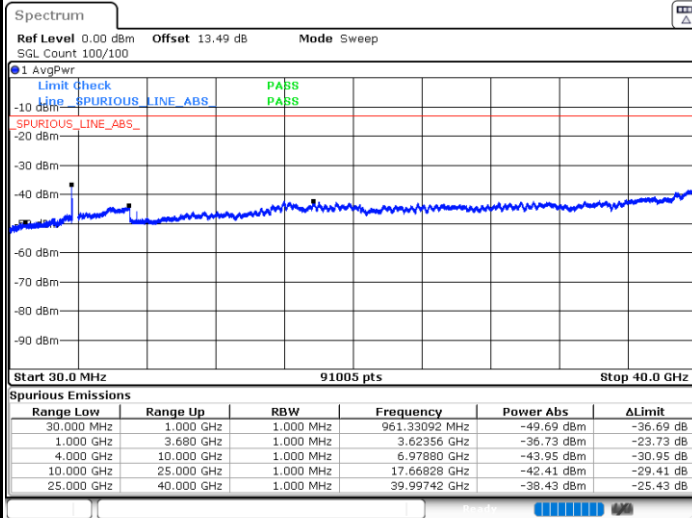


Date: 2.DEC.2021 18:55:21



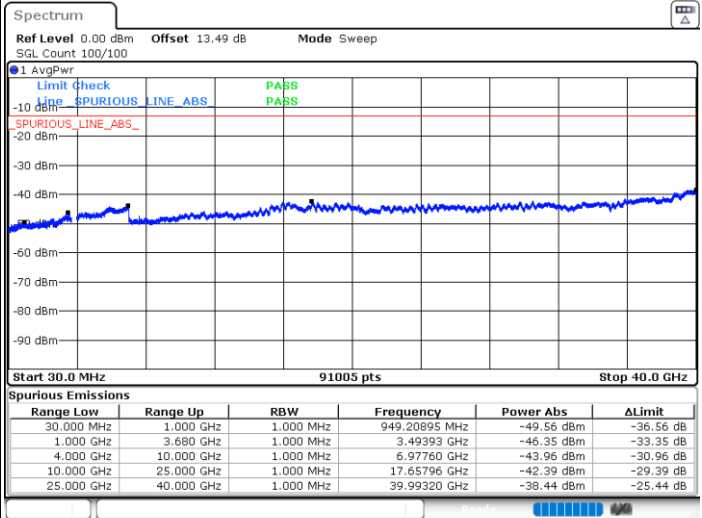
FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



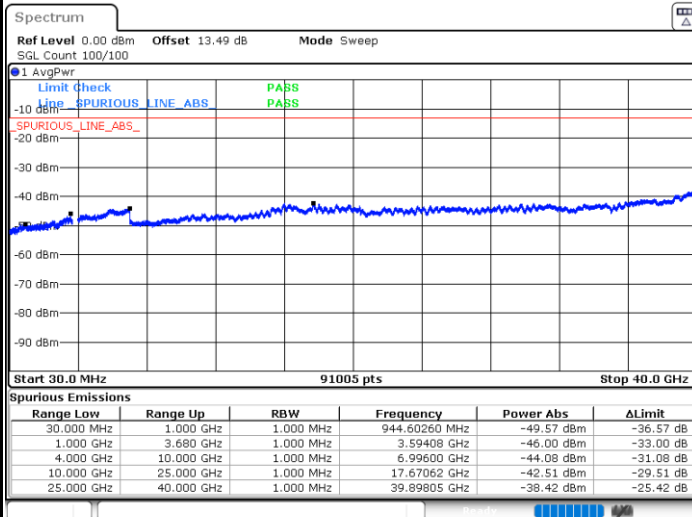
Date: 27.NOV.2021 08:22:50

Middle Channel / 1RB1



Date: 27.NOV.2021 08:33:48

Highest Channel / 1RB1

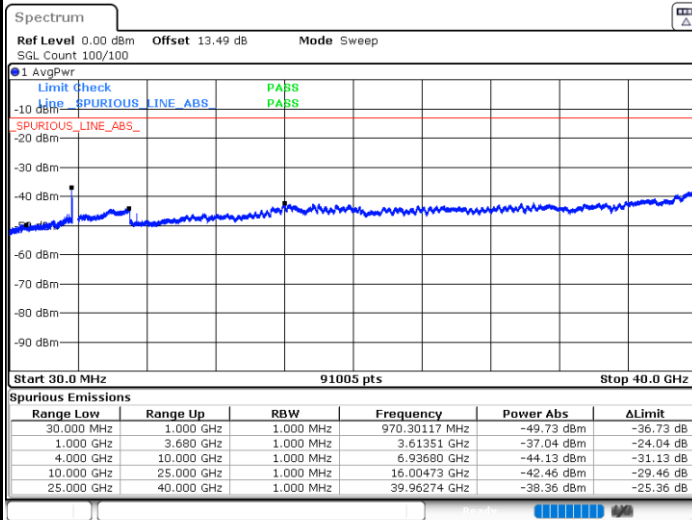


Date: 27.NOV.2021 08:35:40



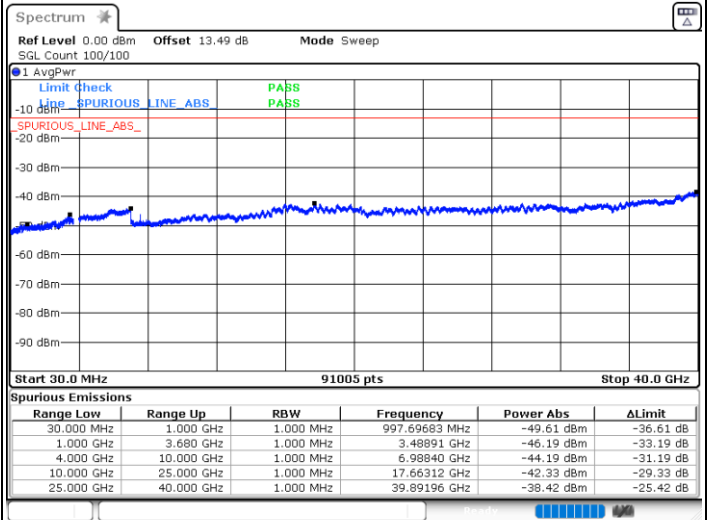
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



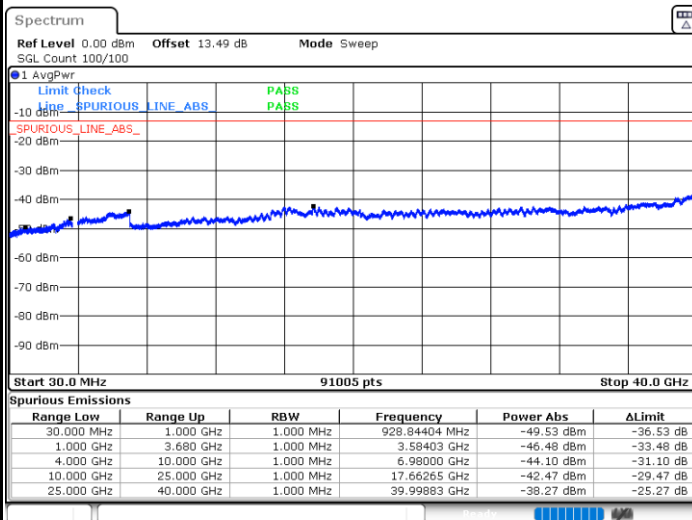
Date: 27.NOV.2021 09:23:23

Middle Channel / 1RB1



Date: 27.NOV.2021 09:30:20

Highest Channel / 1RB1

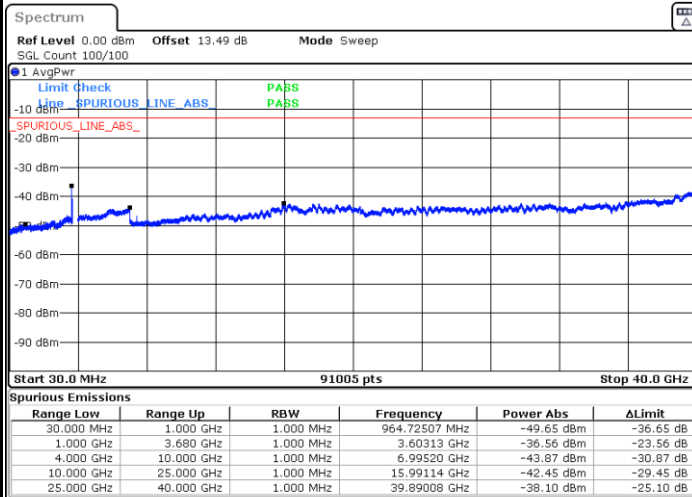


Date: 27.NOV.2021 09:31:59



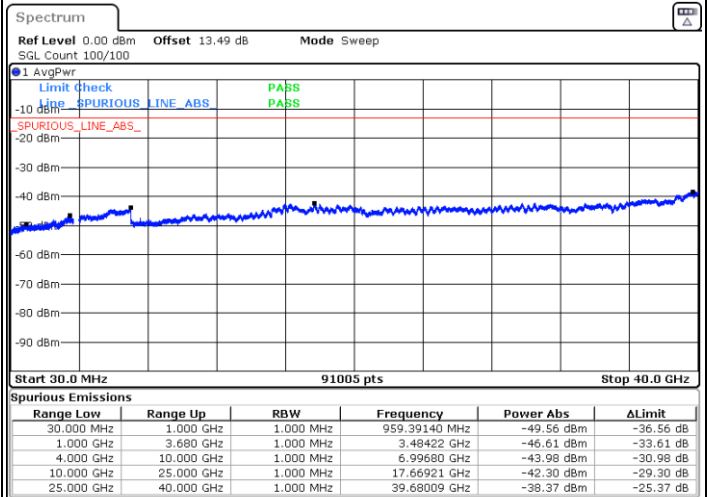
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



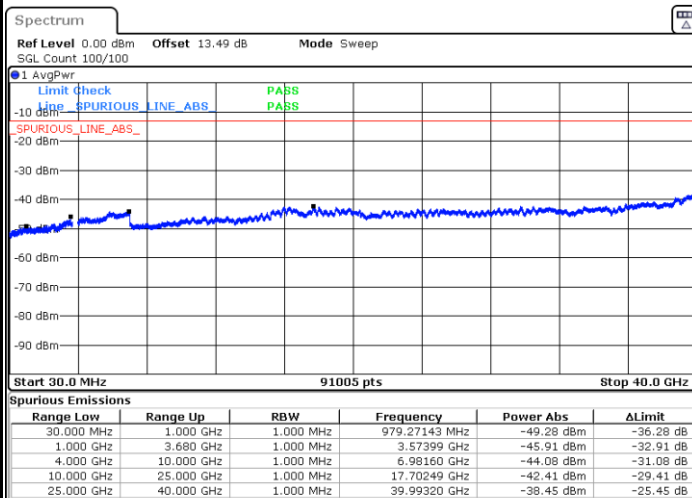
Date: 27.NOV.2021 10:22:22

Middle Channel / 1RB1



Date: 27.NOV.2021 13:54:42

Highest Channel / 1RB1



Date: 27.NOV.2021 13:57:15

Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0010	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0031	

Note:

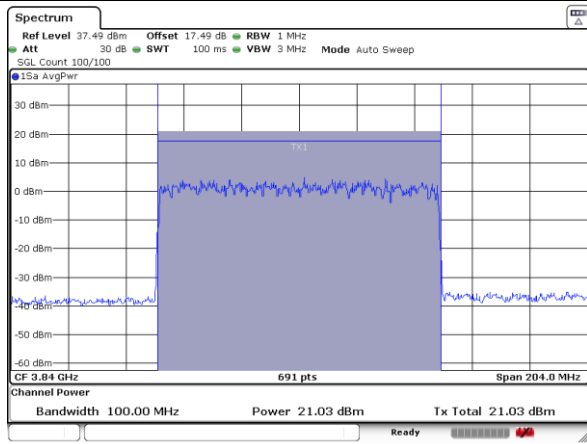
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n77****Peak-to-Average Ratio**

Mode	FR1 n77 / 100MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.56	5.15	5.4	5.39	PASS

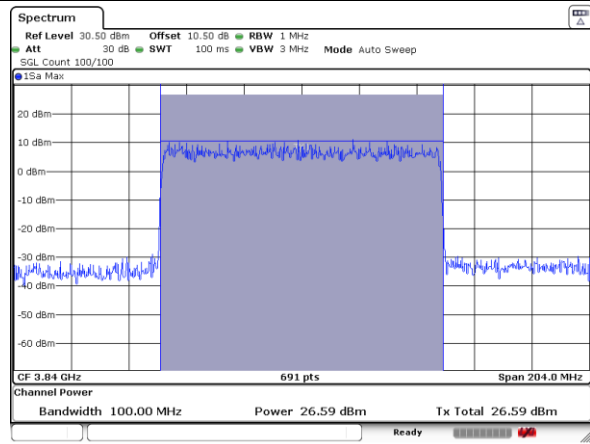


M-FULLRB-Q-A



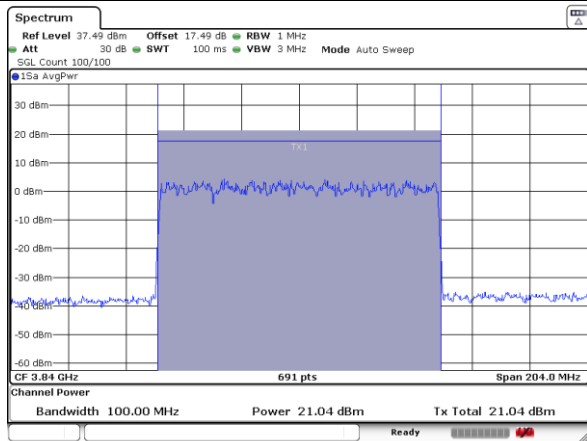
Date: 27.NOV.2021 12:39:59

M-FULLRB-Q-P



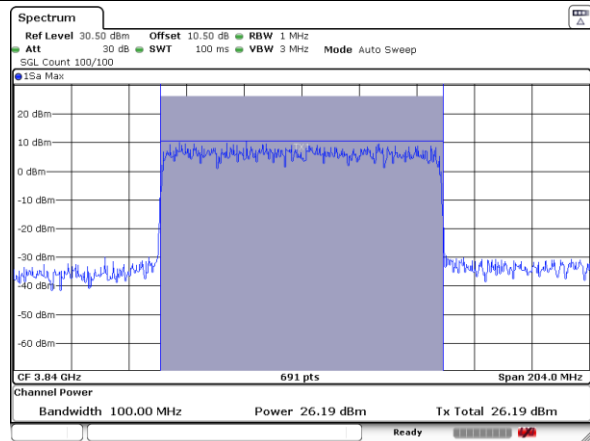
Date: 27.NOV.2021 12:44:47

M-FULLRB-16Q-A



Date: 27.NOV.2021 12:41:43

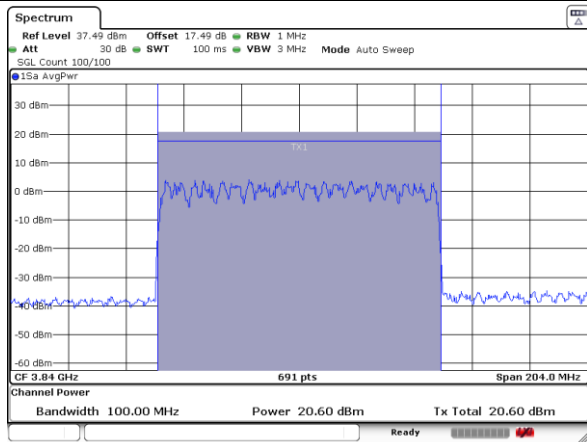
M-FULLRB-16Q-P



Date: 27.NOV.2021 12:44:23

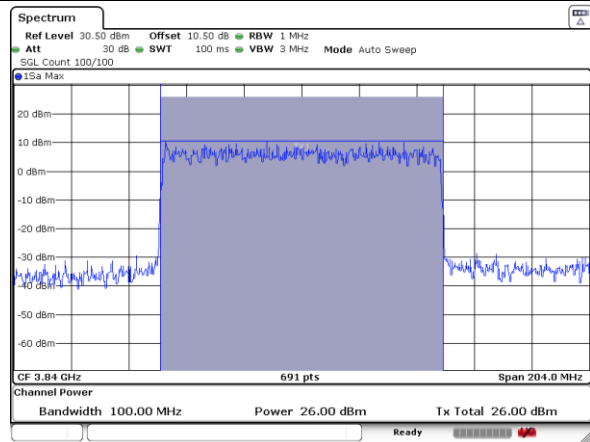


M-FULLRB-64Q-A



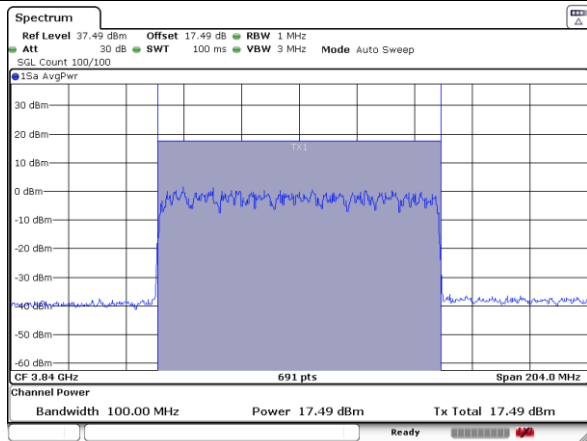
Date: 27.NOV.2021 12:42:17

M-FULLRB-64Q-P



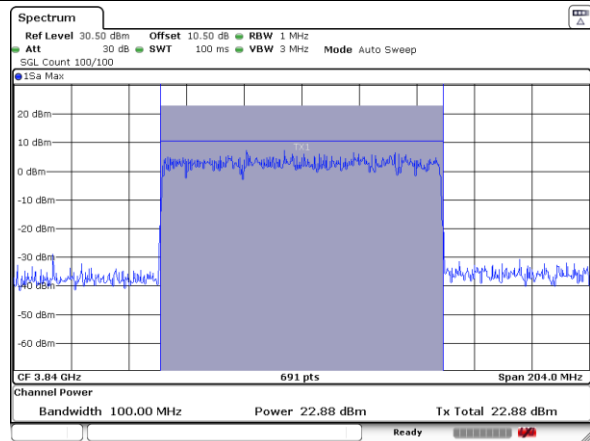
Date: 27.NOV.2021 12:43:57

M-FULLRB-256Q-A



Date: 27.NOV.2021 12:42:55

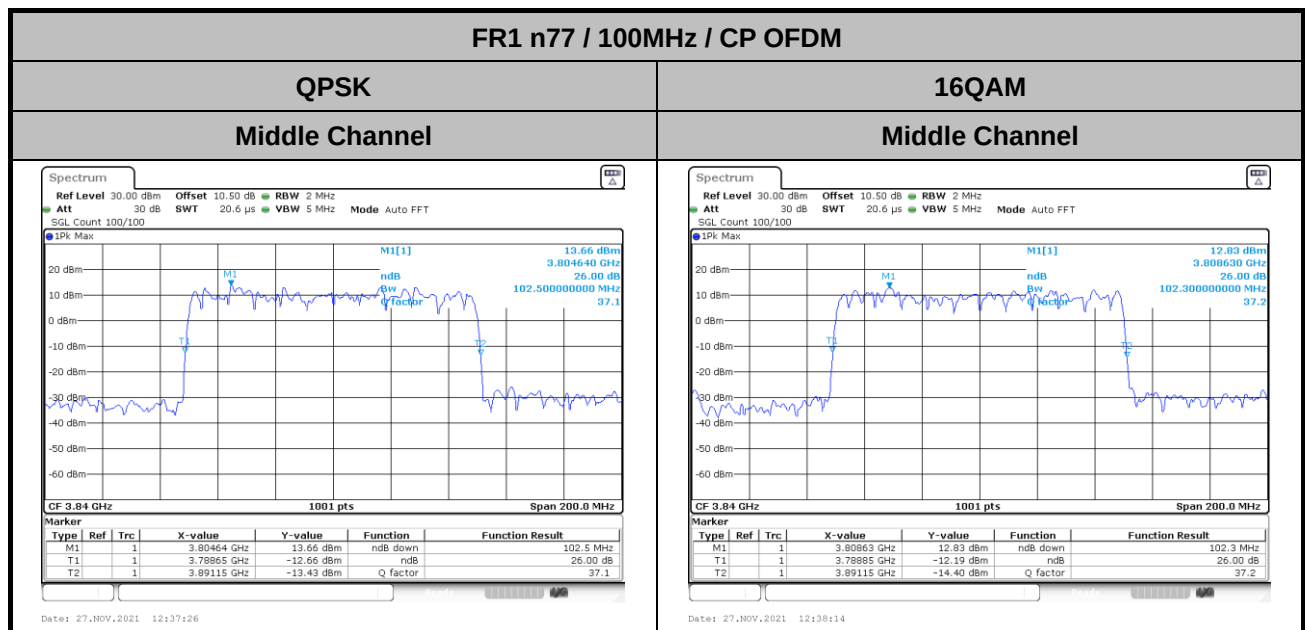
M-FULLRB-256Q-P



Date: 27.NOV.2021 12:43:30

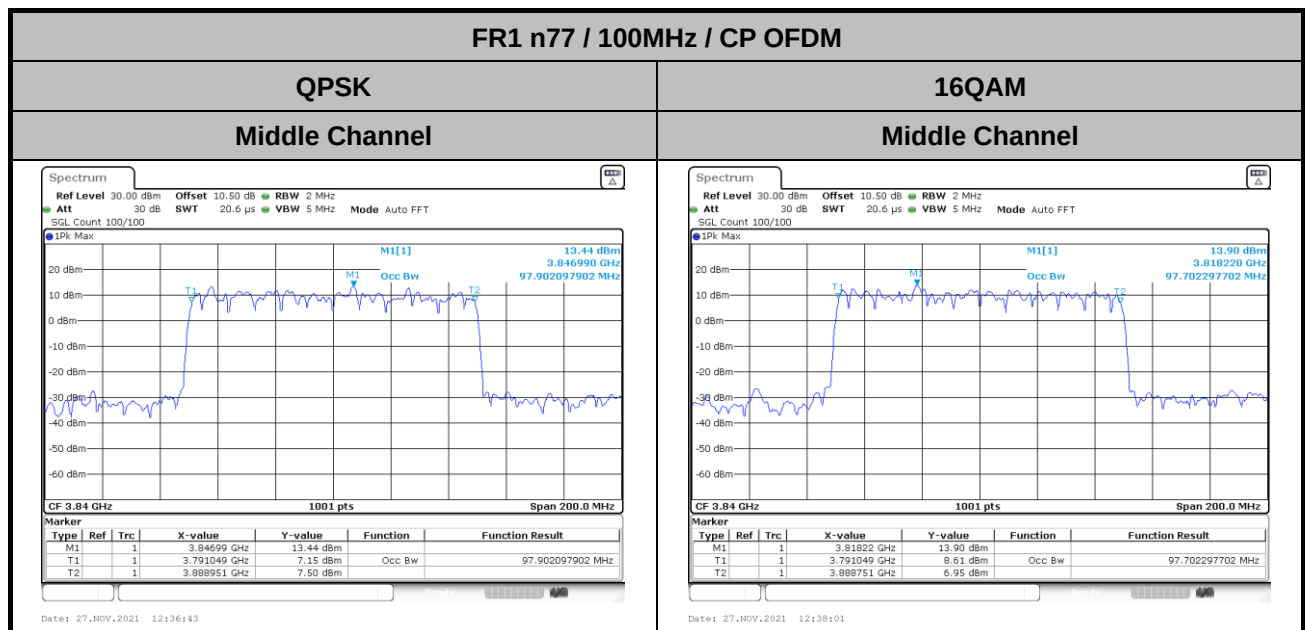
**26dB Bandwidth**

BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	102.5	102.3



Occupied Bandwidth

BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	97.90	97.70

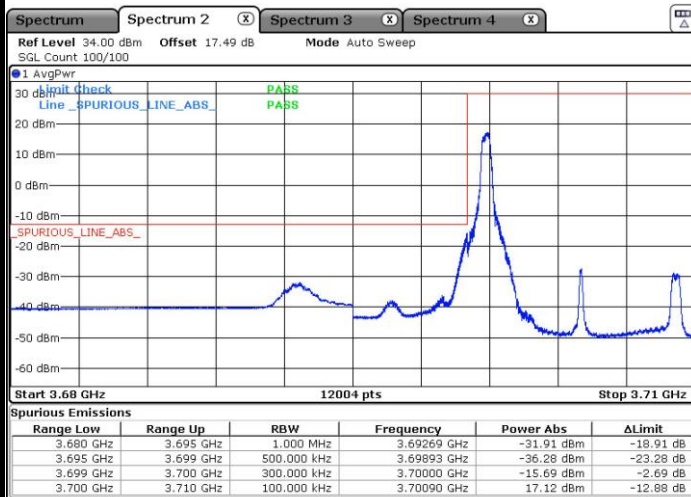


**Conducted Band Edge**

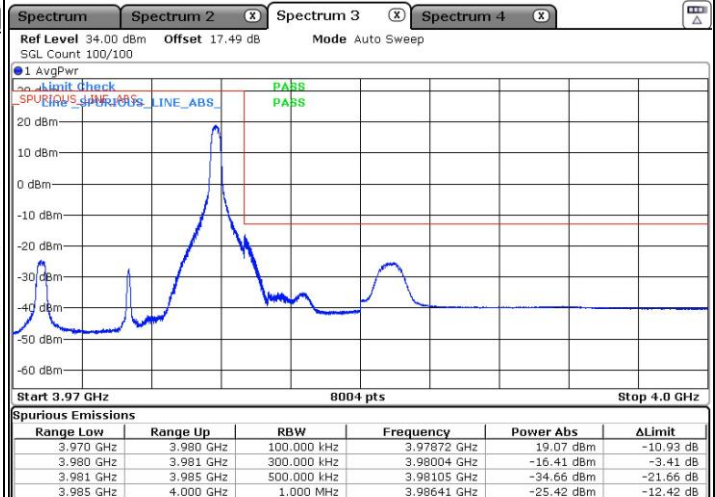
FR1 n77 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



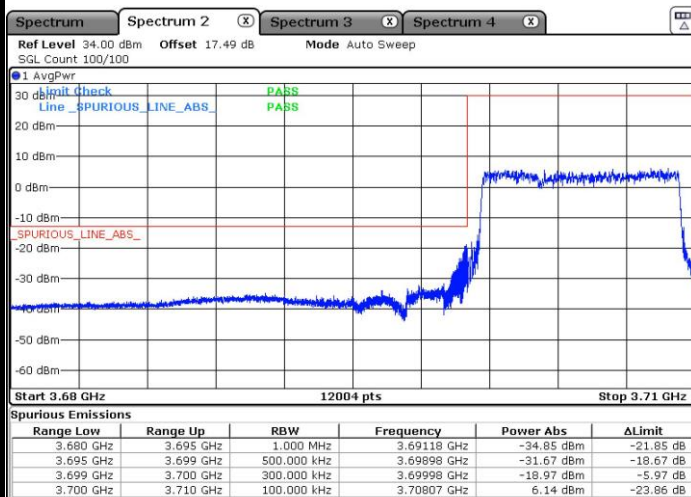
Date: 3.DEC.2021 08:44:39



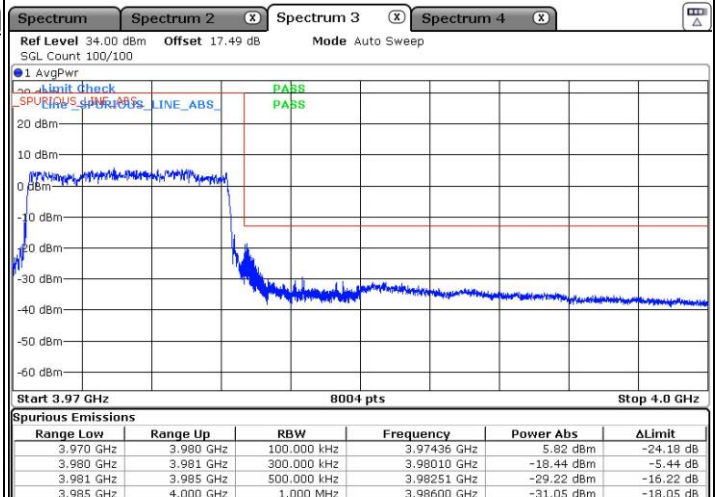
Date: 3.DEC.2021 09:54:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.DEC.2021 09:45:12

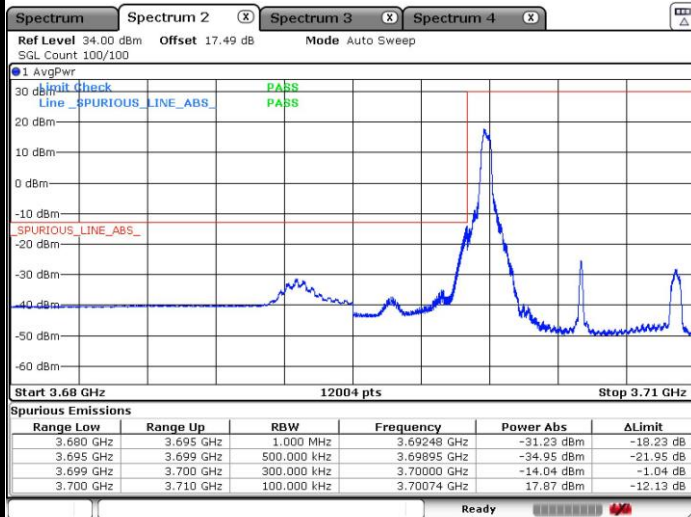


Date: 3.DEC.2021 10:00:11



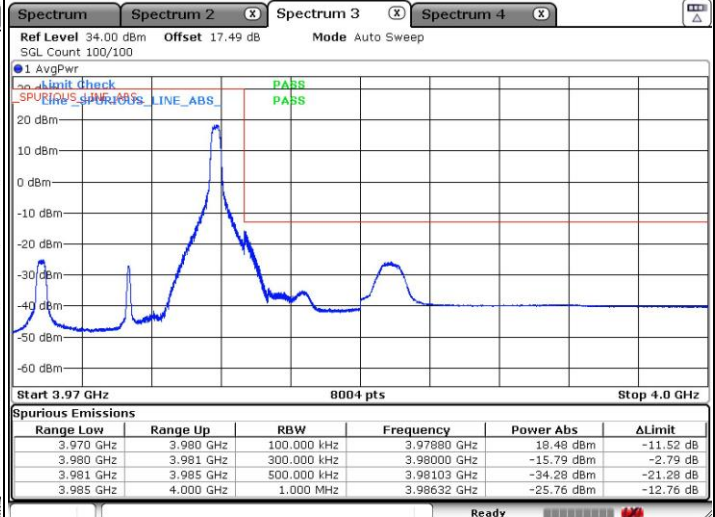
FR1 n77 / 10MHz / CP OFDM / 16Q

Lowest Band Edge / 1RB0



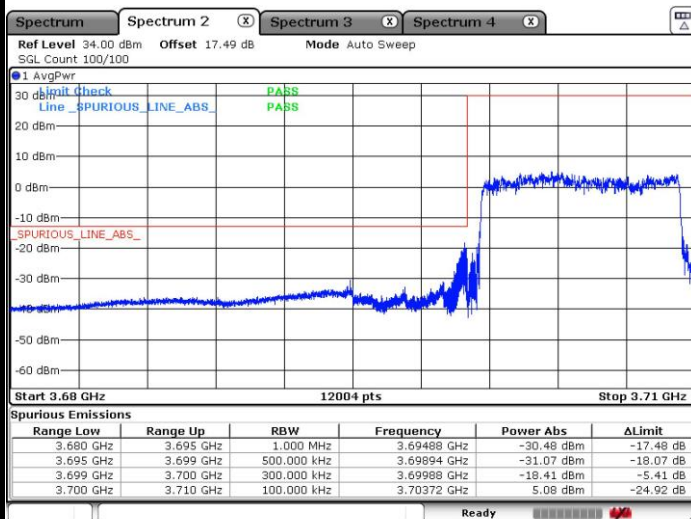
Date: 3.DEC.2021 09:37:41

Highest Band Edge / 1RBmax



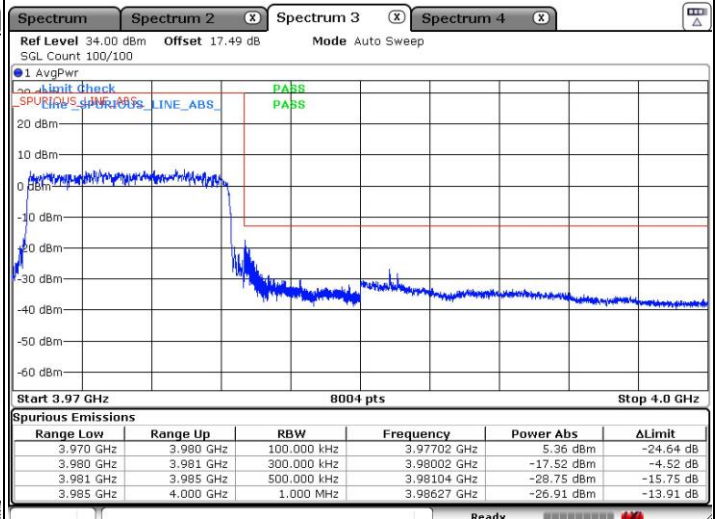
Date: 3.DEC.2021 09:56:21

Lowest Band Edge / Full RB



Date: 3.DEC.2021 09:44:34

Highest Band Edge / Full RB

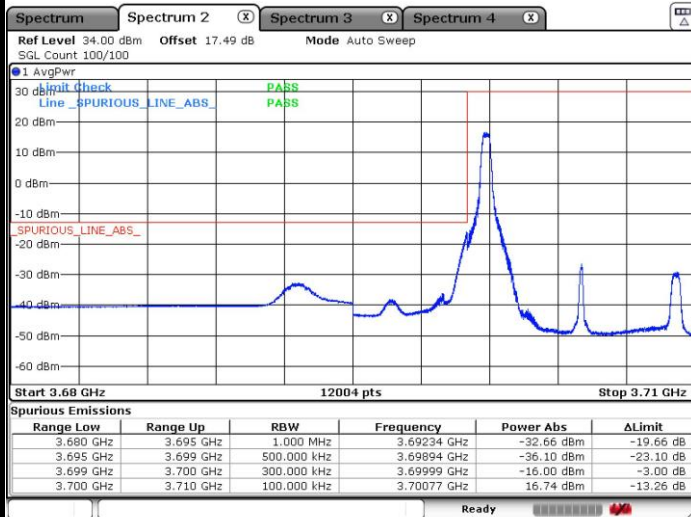


Date: 3.DEC.2021 09:59:51



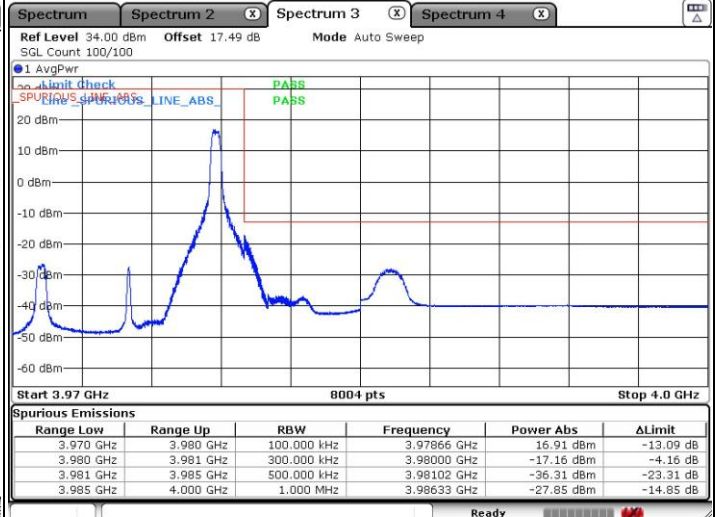
FR1 n77 /10MHz / CP OFDM / 64Q

Lowest Band Edge / 1RB0



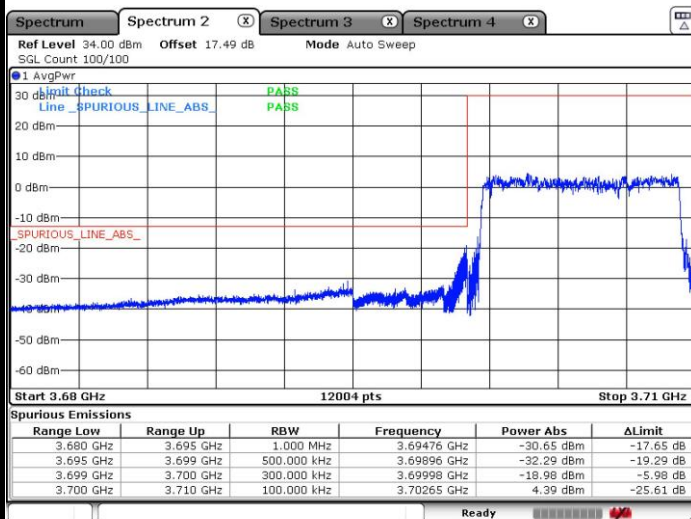
Date: 3.DEC.2021 09:40:28

Highest Band Edge / 1RBmax



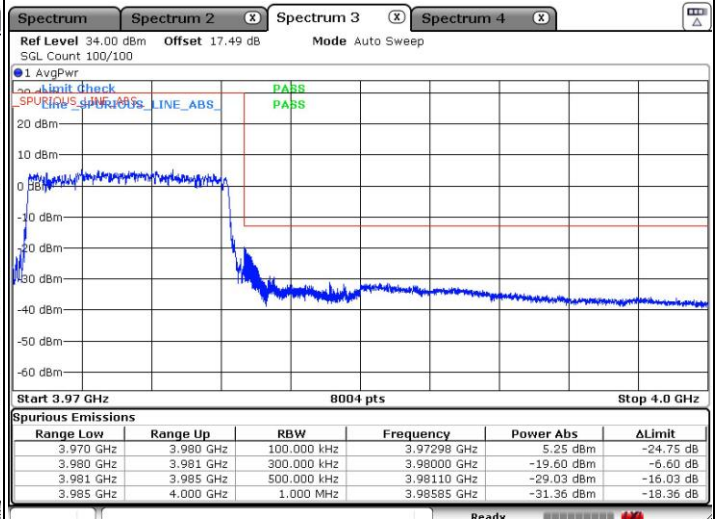
Date: 3.DEC.2021 09:57:20

Lowest Band Edge / Full RB



Date: 3.DEC.2021 09:44:16

Highest Band Edge / Full RB

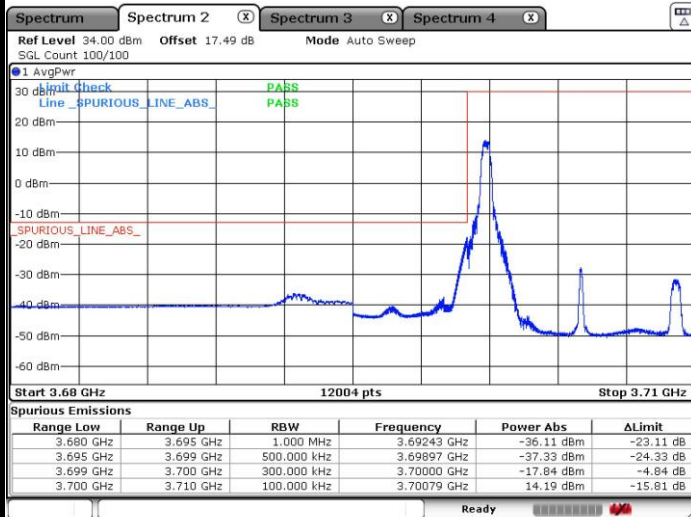


Date: 3.DEC.2021 09:59:33



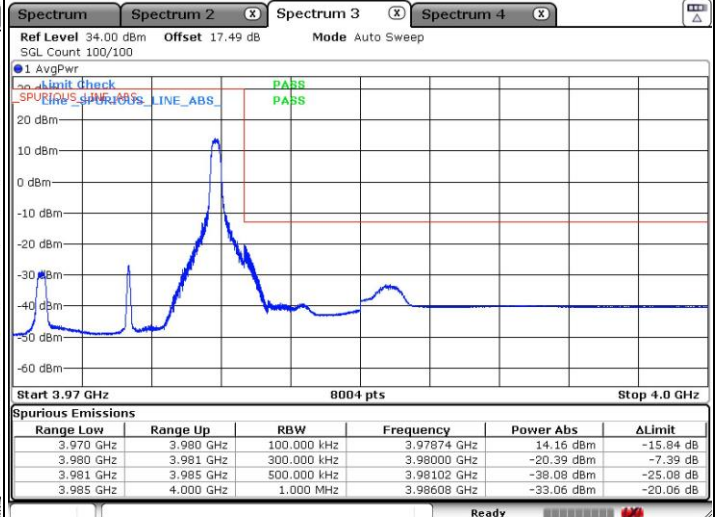
FR1 n77 /10MHz / CP OFDM / 256Q

Lowest Band Edge / 1RB0



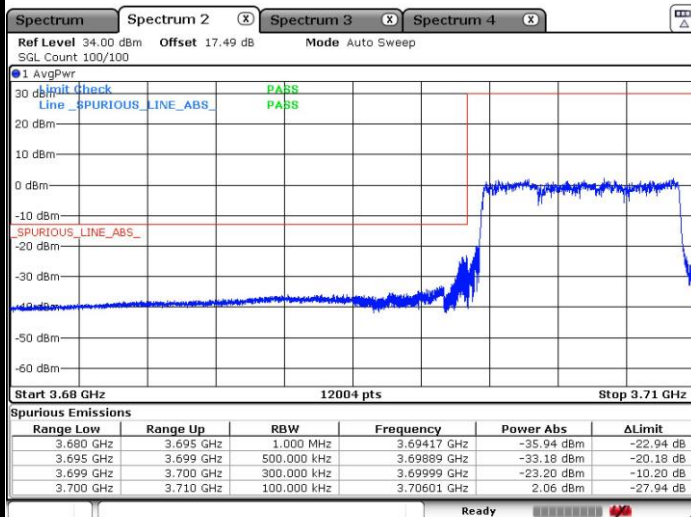
Date: 3.DEC.2021 09:43:05

Highest Band Edge / 1RBmax



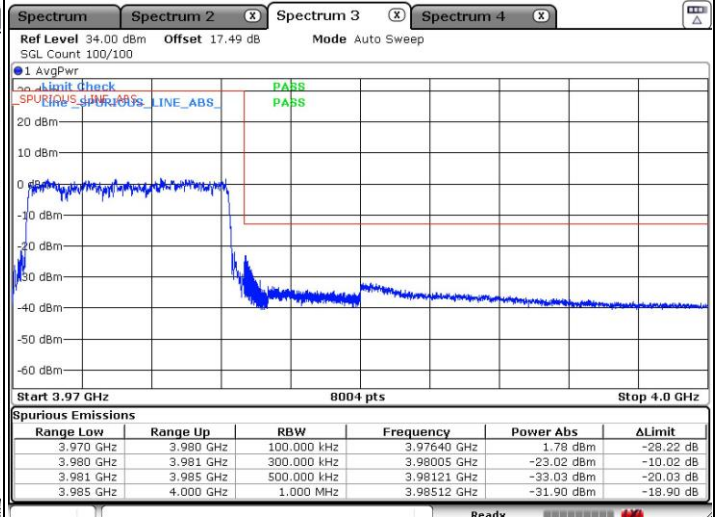
Date: 3.DEC.2021 09:58:27

Lowest Band Edge / Full RB



Date: 3.DEC.2021 09:43:53

Highest Band Edge / Full RB

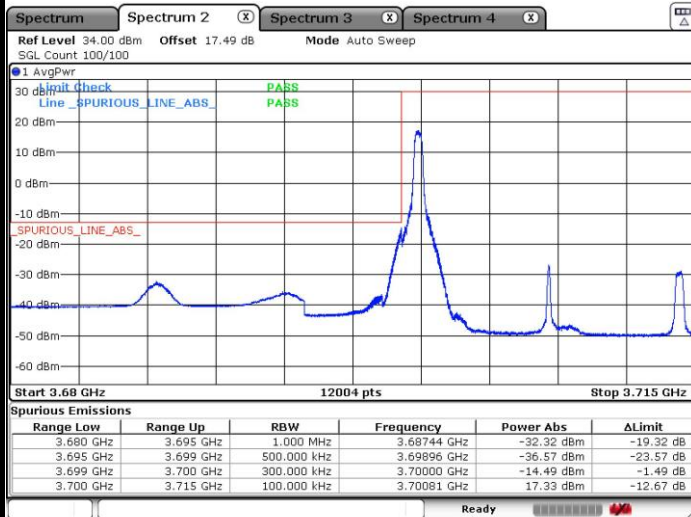


Date: 3.DEC.2021 09:59:10



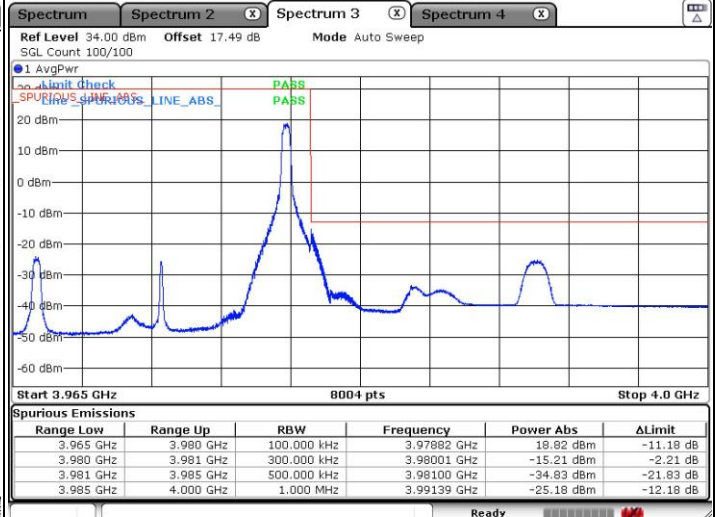
FR1 n77 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0



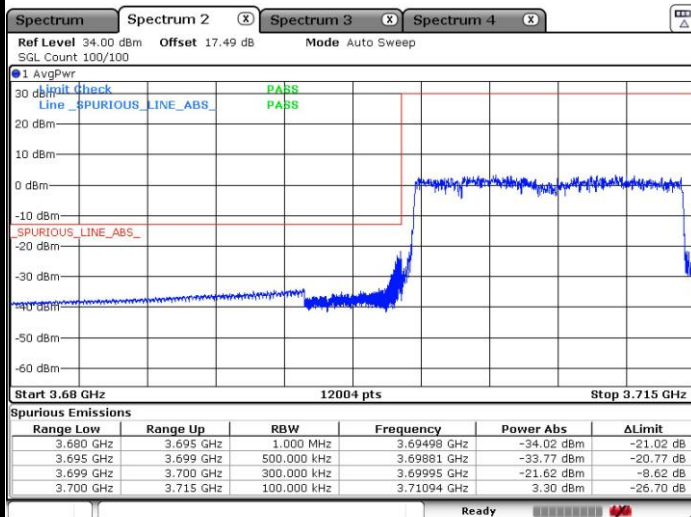
Date: 3.DEC.2021 10:17:57

Highest Band Edge / 1RBmax



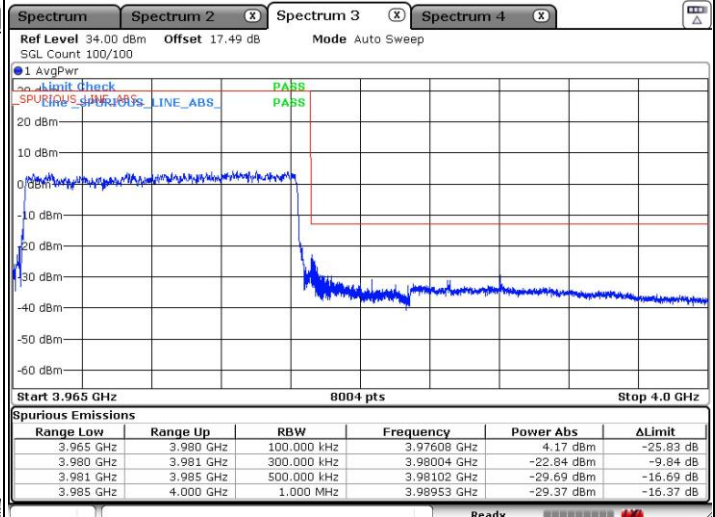
Date: 3.DEC.2021 10:40:22

Lowest Band Edge / Full RB



Date: 3.DEC.2021 10:31:44

Highest Band Edge / Full RB



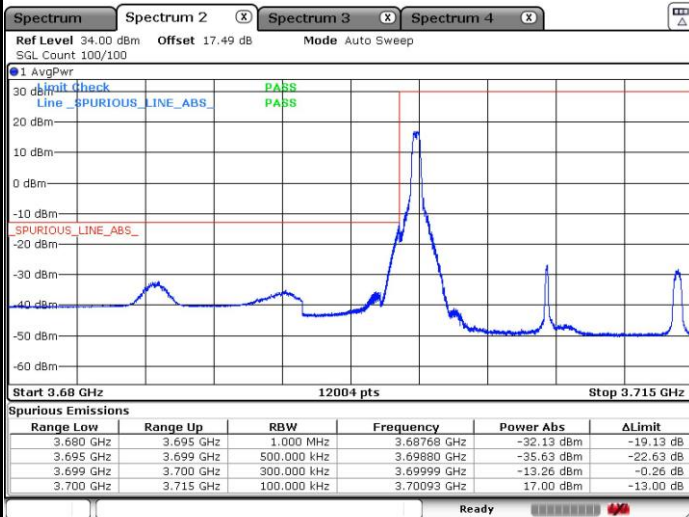
Date: 3.DEC.2021 10:34:51



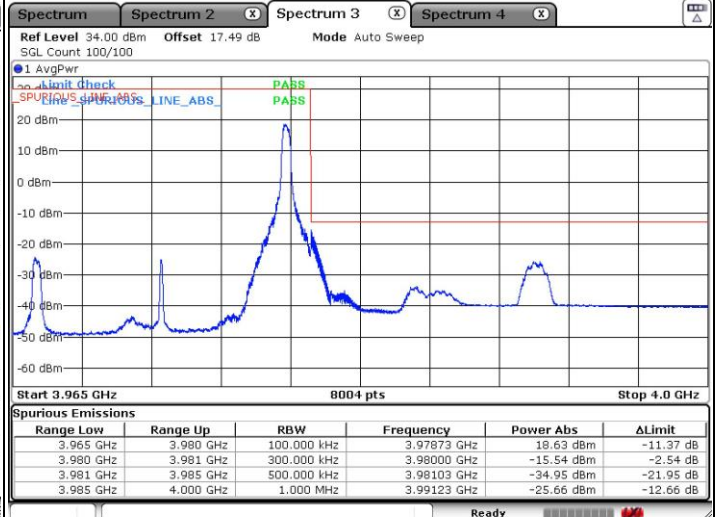
FR1 n77 / 15MHz / CP OFDM / 16Q

Lowest Band Edge / 1RB0

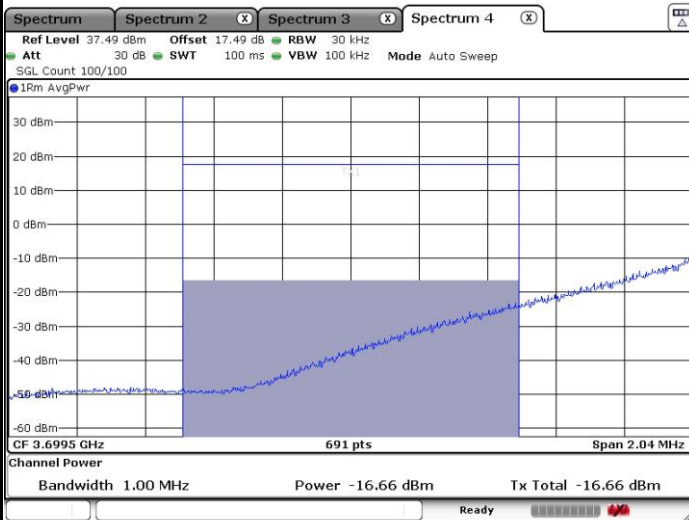
Highest Band Edge / 1RBmax



Date: 3.DEC.2021 10:22:17



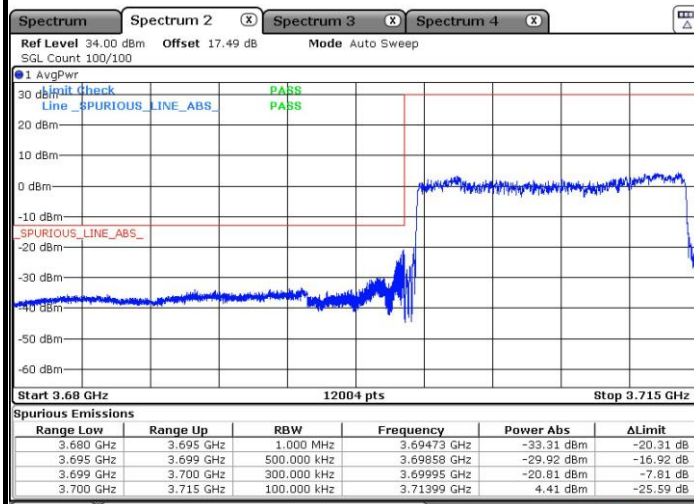
Date: 3.DEC.2021 10:39:15



Date: 3.DEC.2021 10:23:26

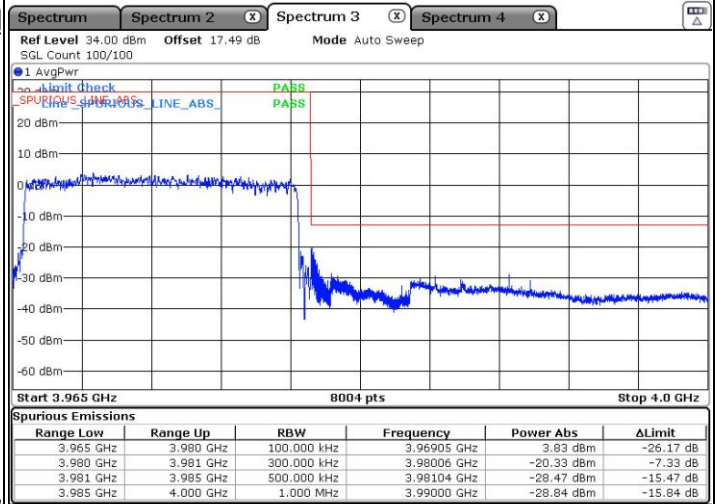


Lowest Band Edge / Full RB



Date: 3.DEC.2021 10:30:41

Highest Band Edge / Full RB



Date: 3.DEC.2021 10:35:12