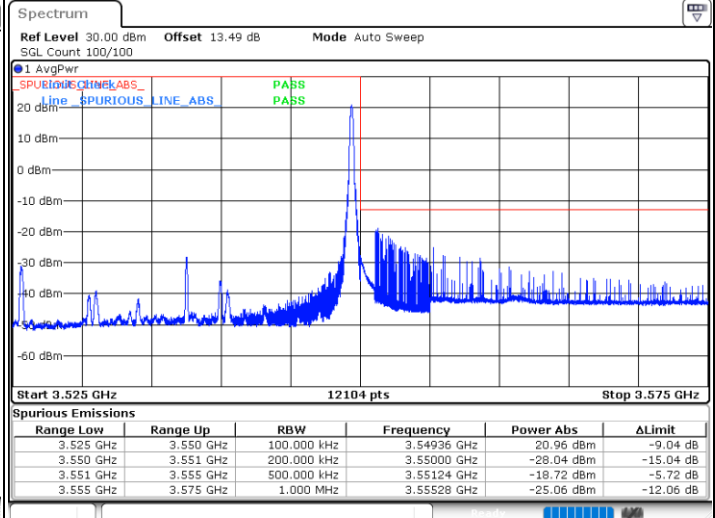
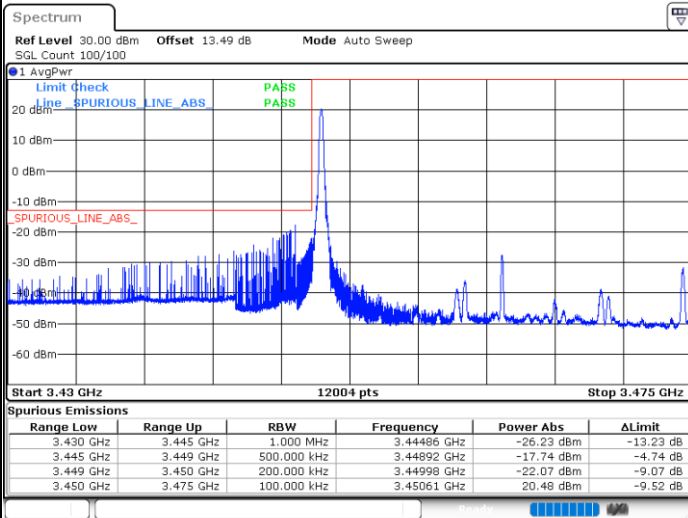




FR1 n78/ 25MHz / DFT-S OFDM / 16Q

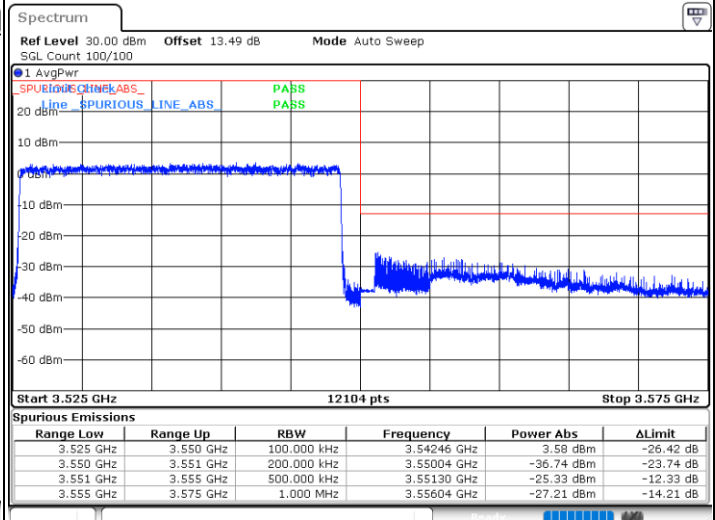
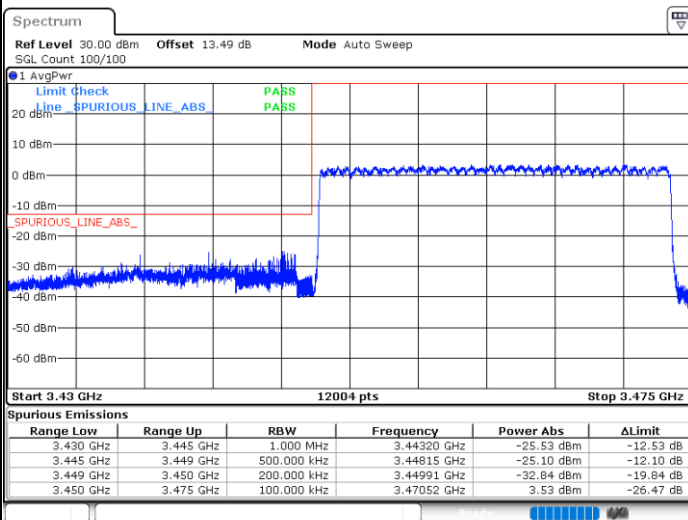
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

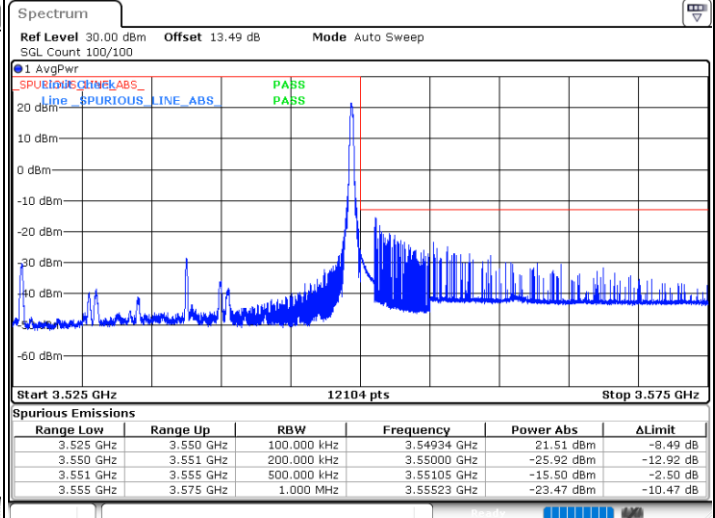
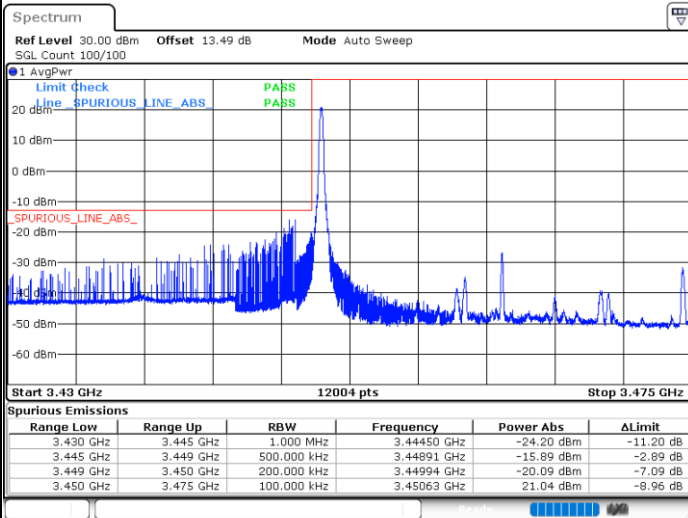




FR1 n78 / 25MHz / DFT-S OFDM / 64Q

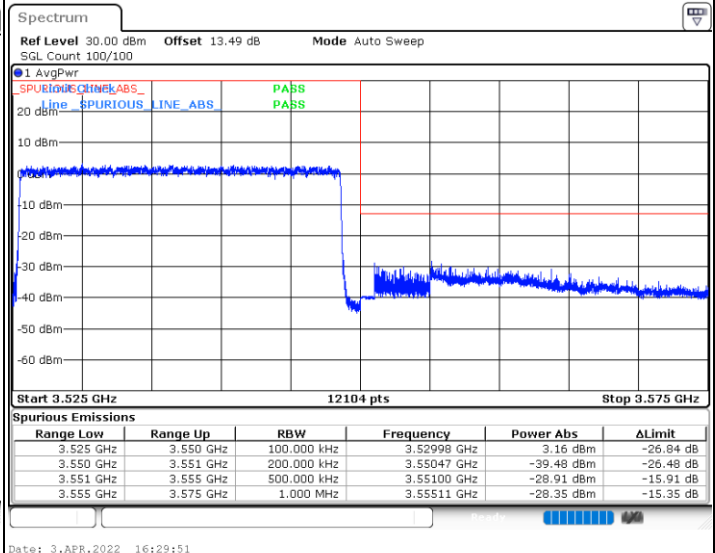
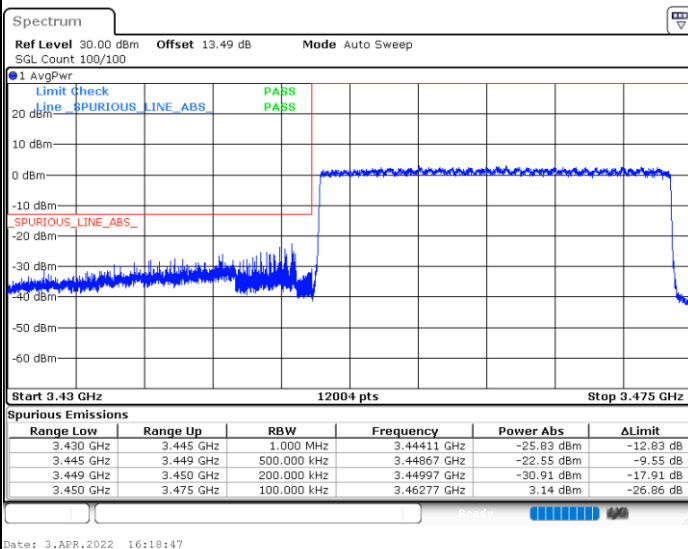
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

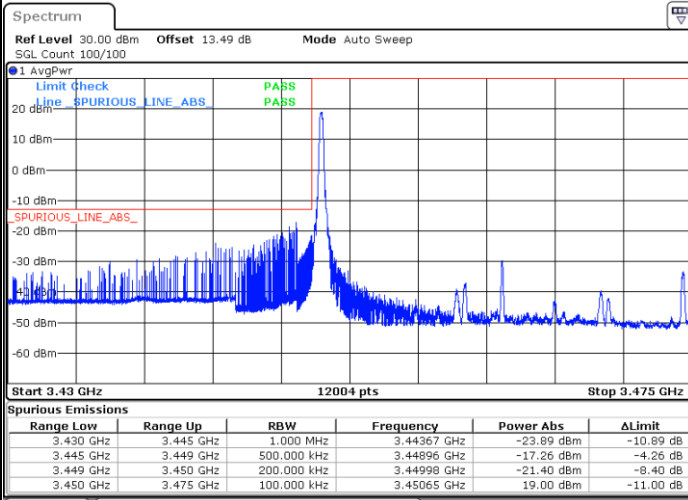




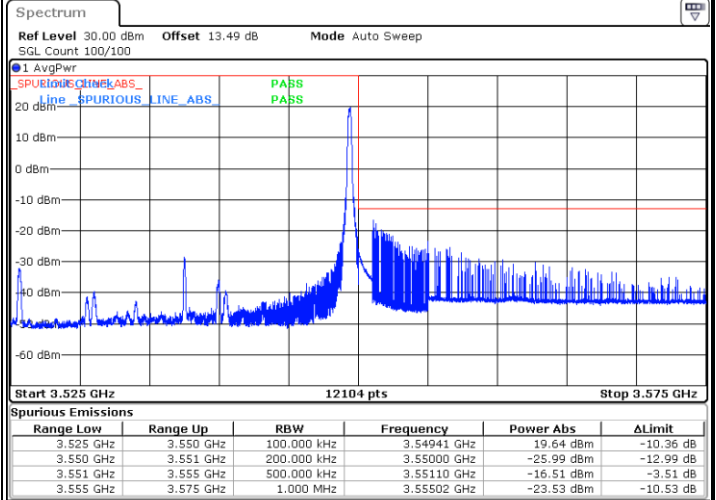
FR1 n78/ 25MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



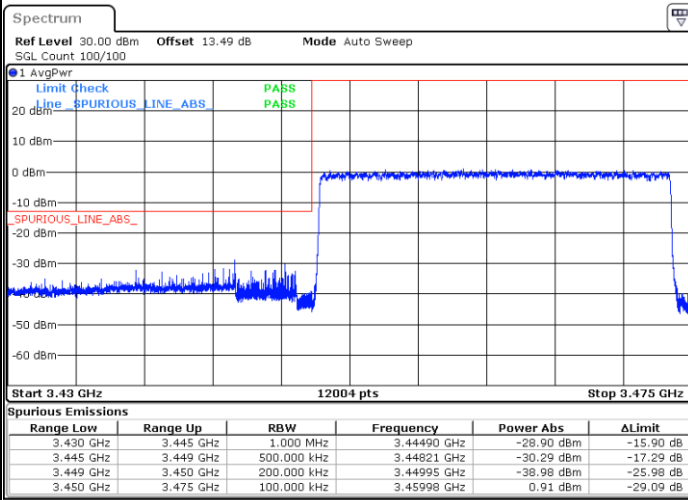
Date: 3.APR.2022 16:20:13



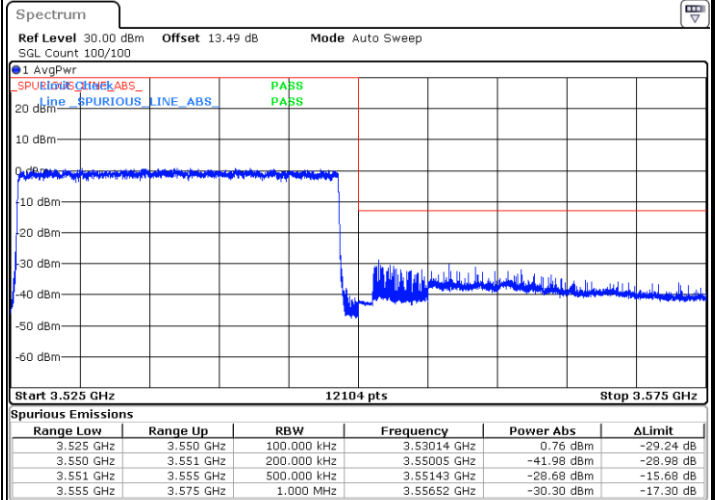
Date: 3.APR.2022 16:31:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.APR.2022 16:19:32



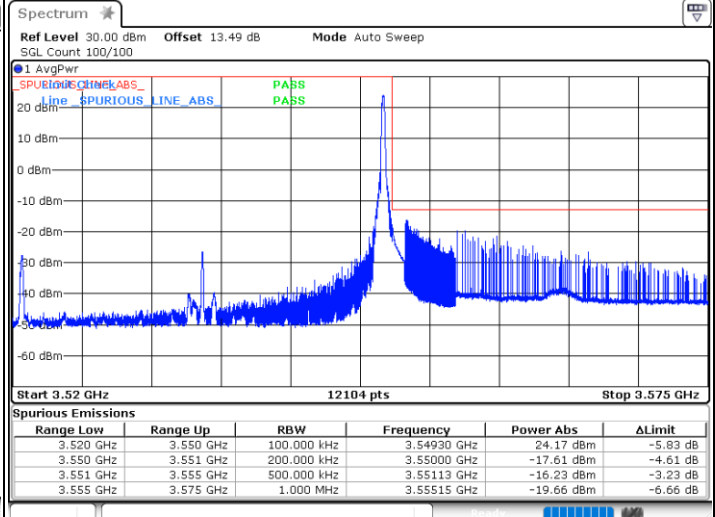
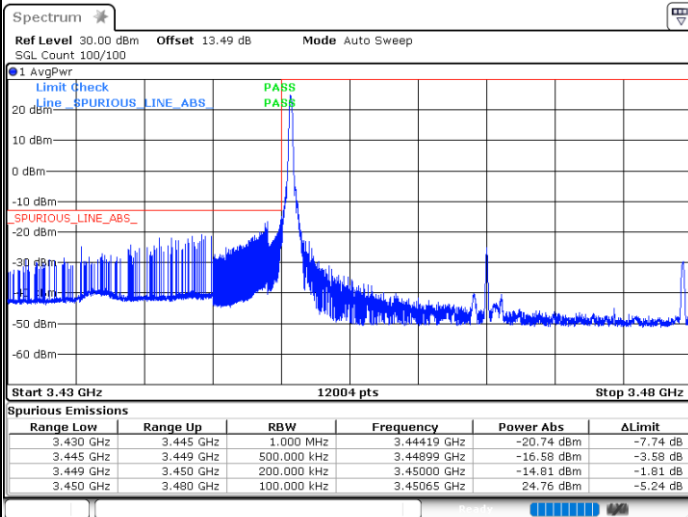
Date: 3.APR.2022 16:30:44



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

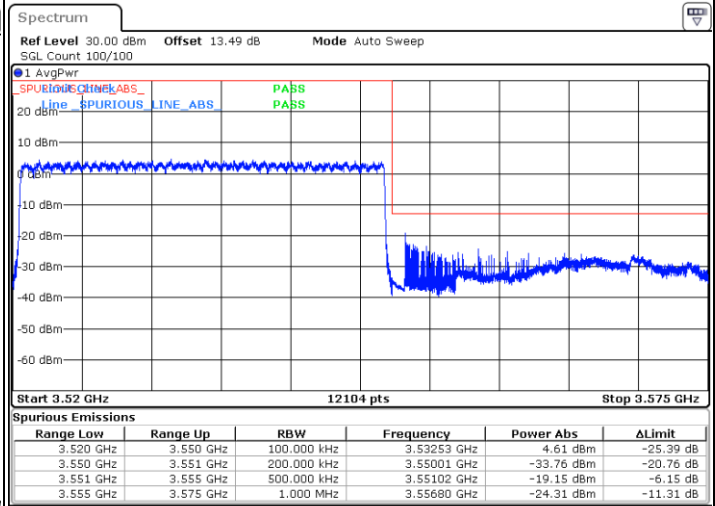
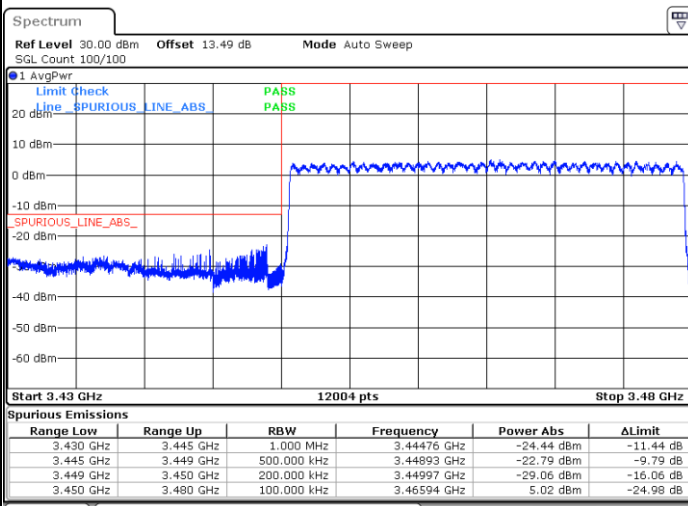
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

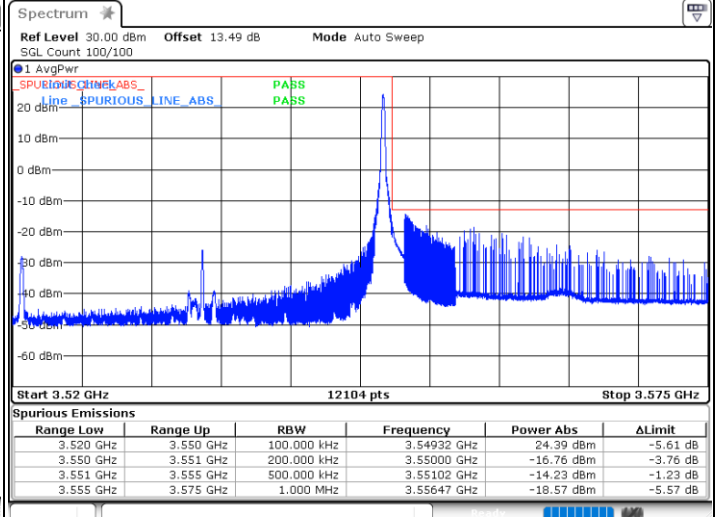
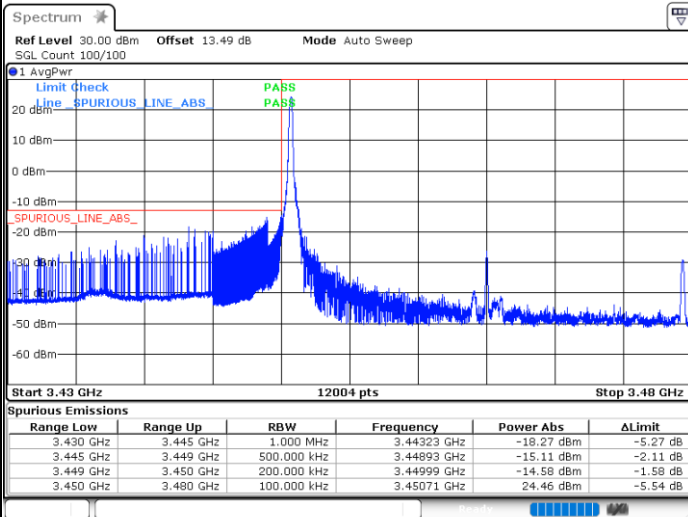




FR1 n78 / 30MHz / DFT-S OFDM / QPSK

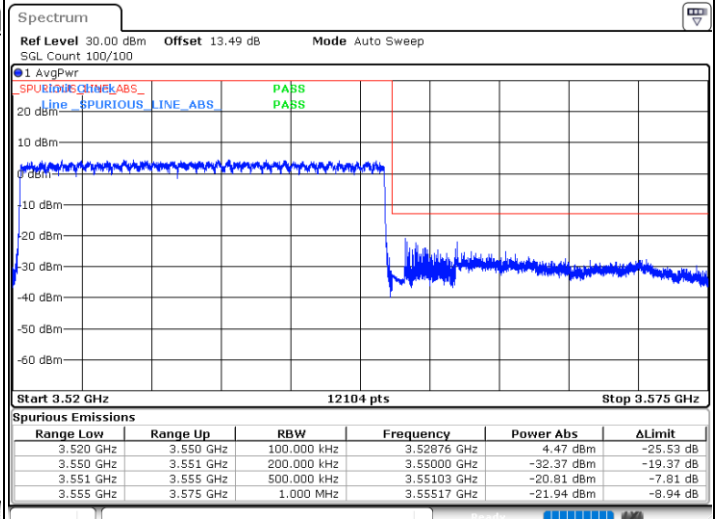
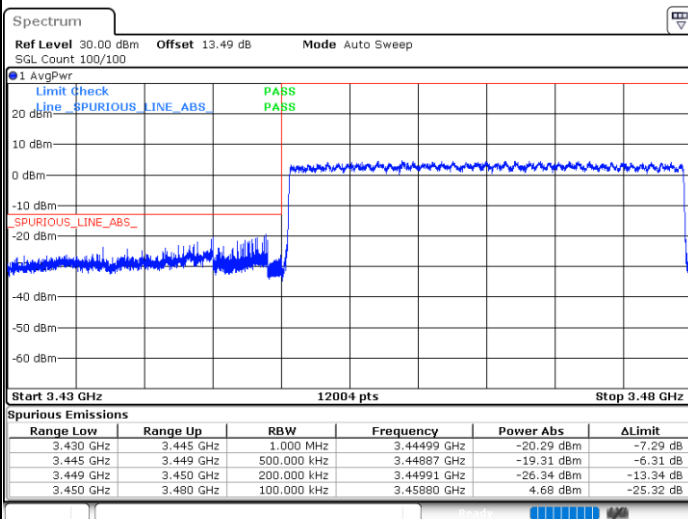
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

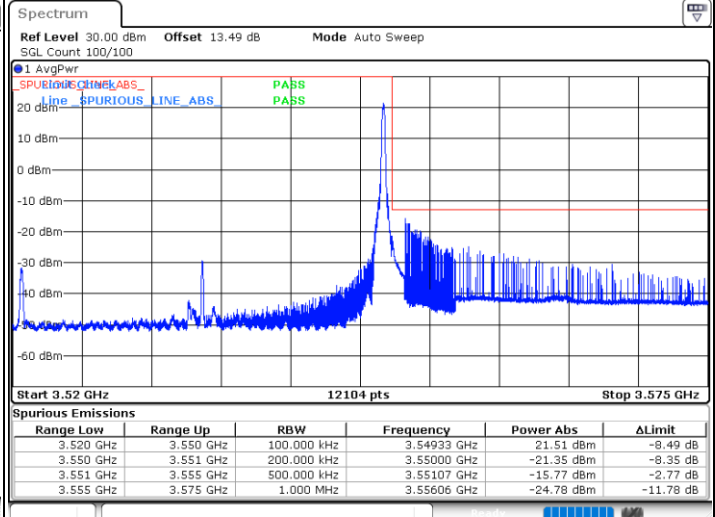
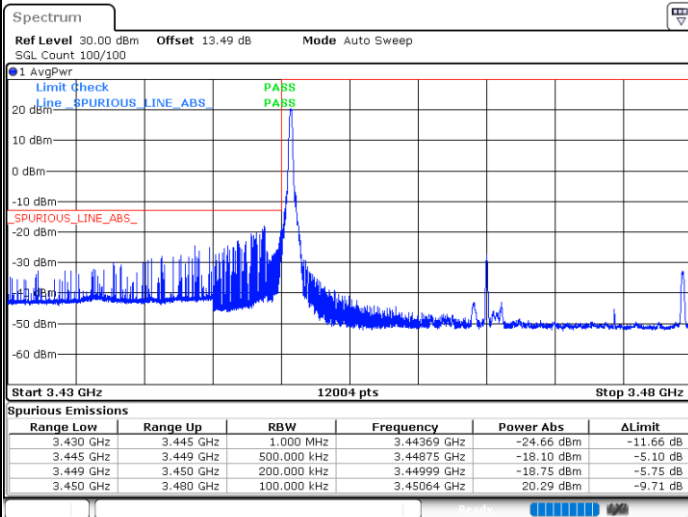




FR1 n78 / 30MHz / DFT-S OFDM / 16Q

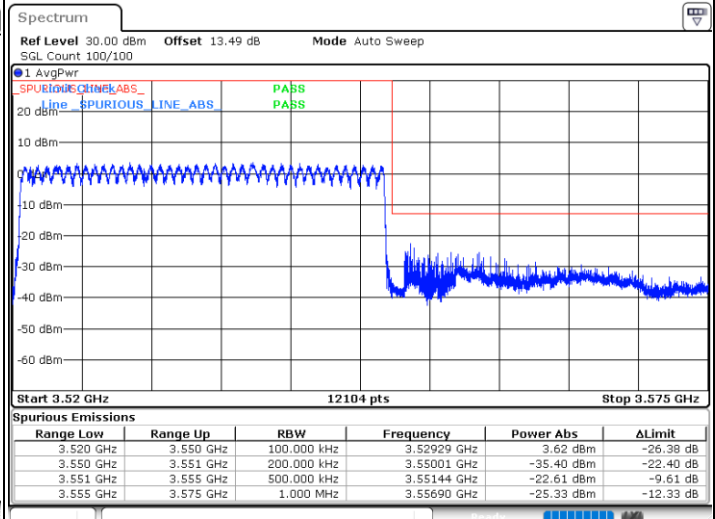
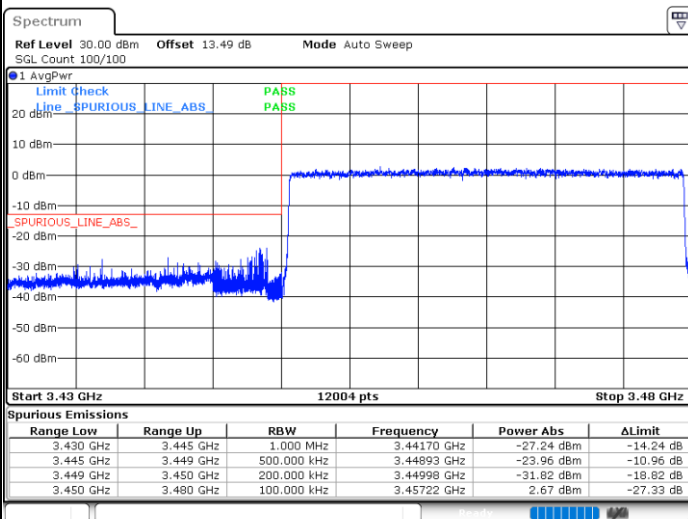
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

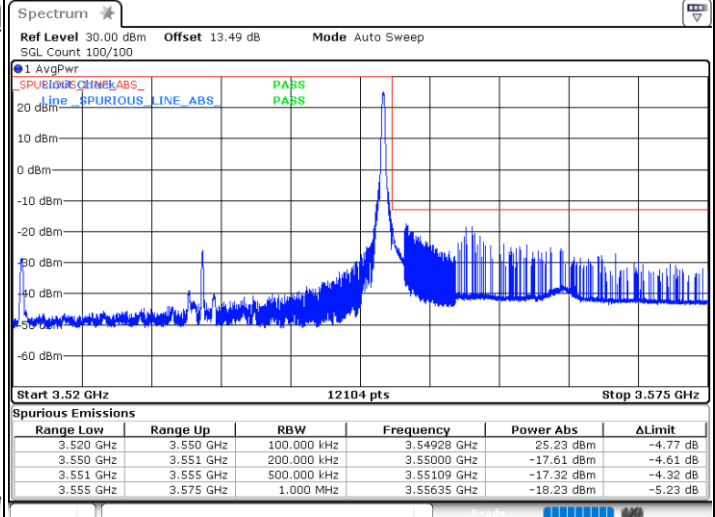
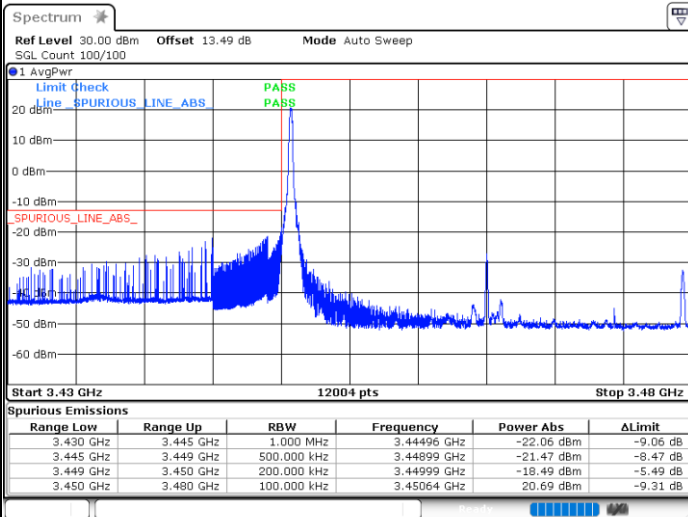




FR1 n78 / 30MHz / DFT-S OFDM / 64Q

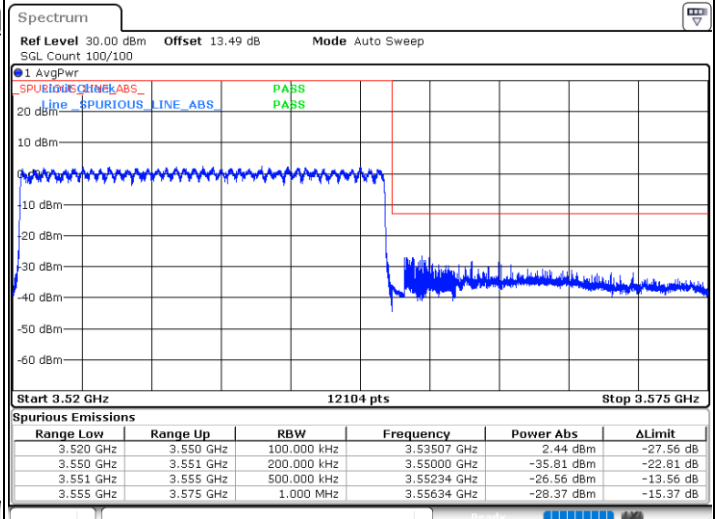
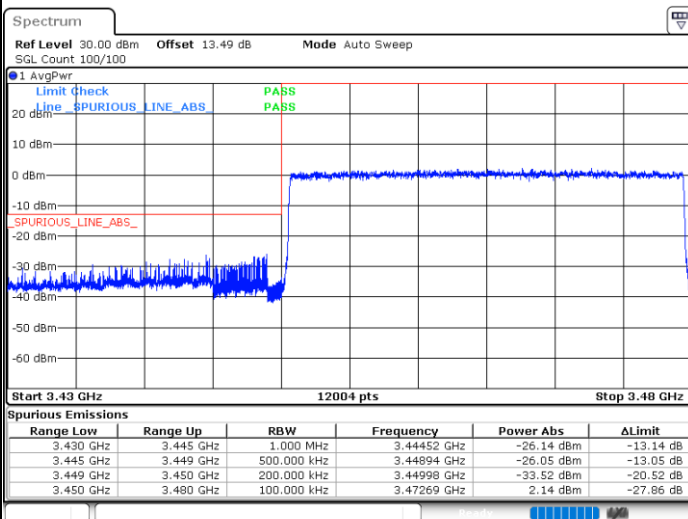
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

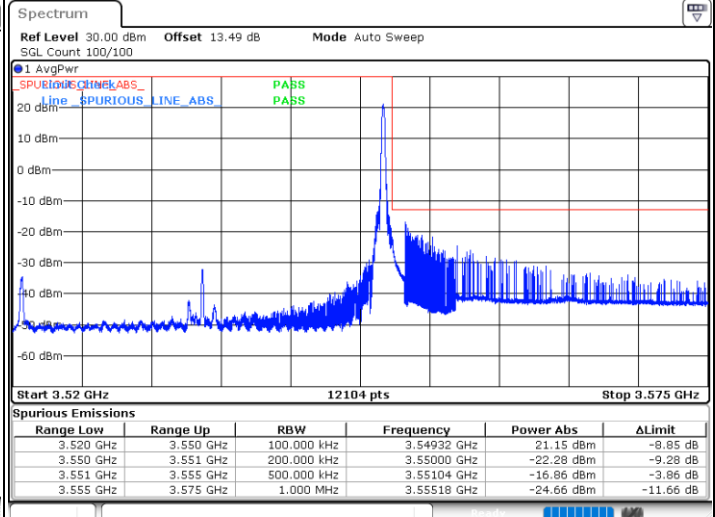
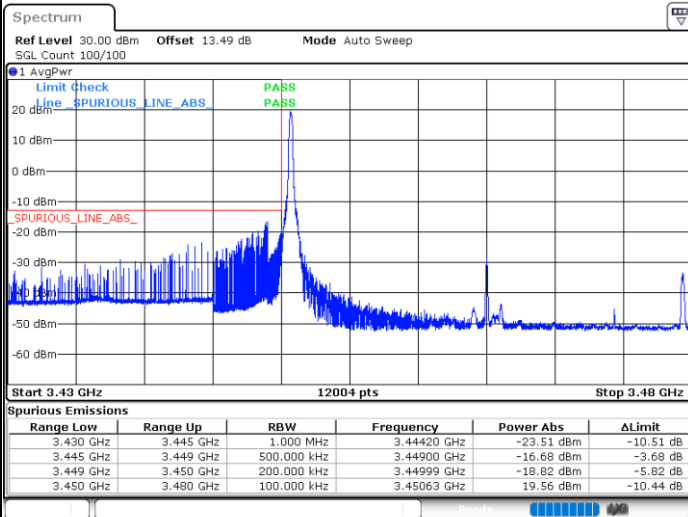




FR1 n78 / 30MHz / DFT-S OFDM / 256Q

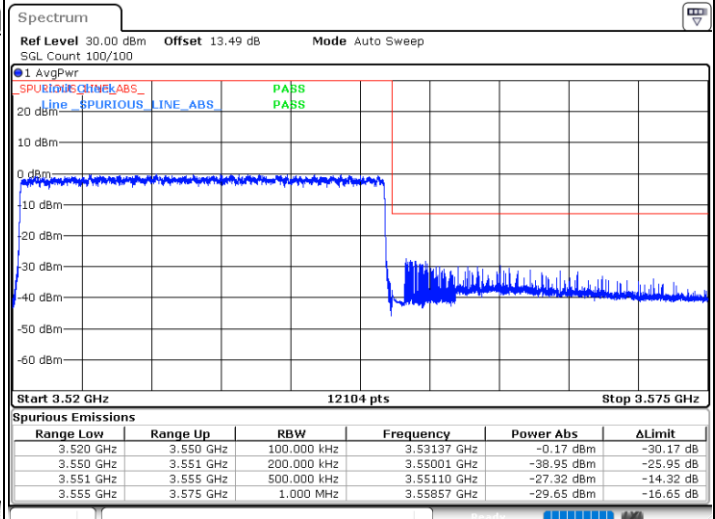
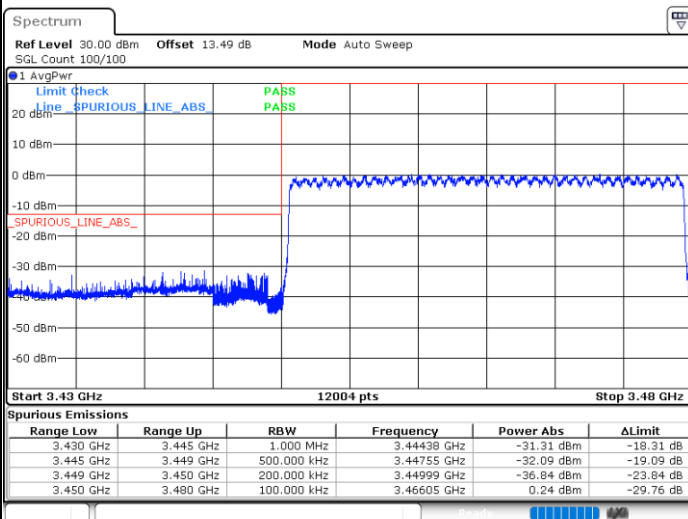
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

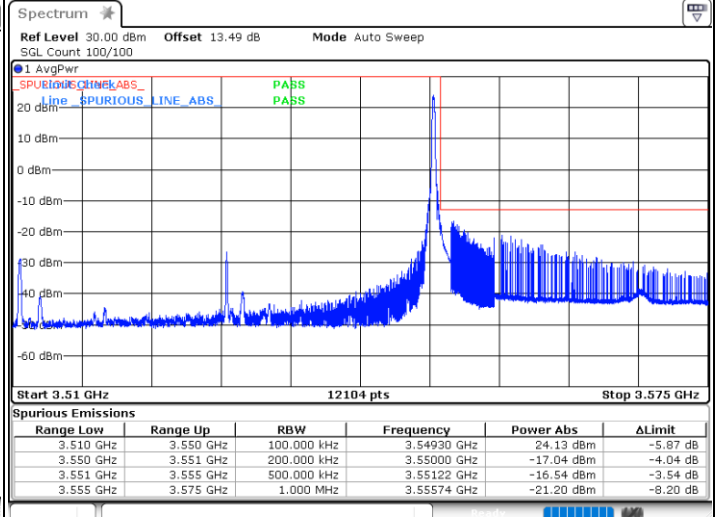
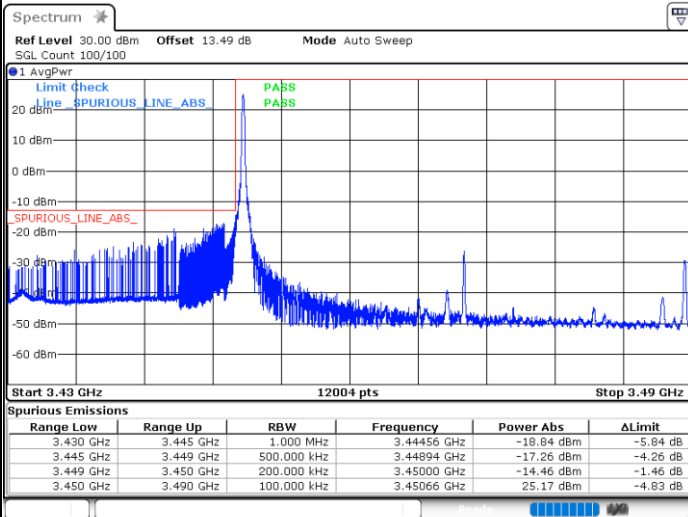




FR1 n78 / 40MHz / DFT-S OFDM / BPSK

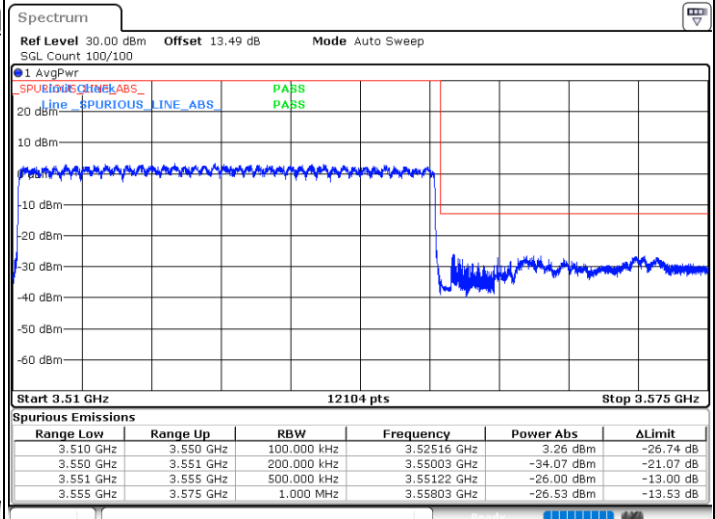
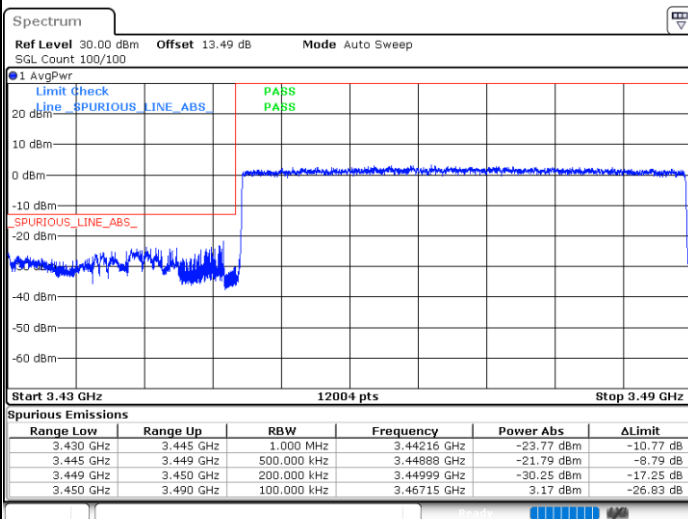
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

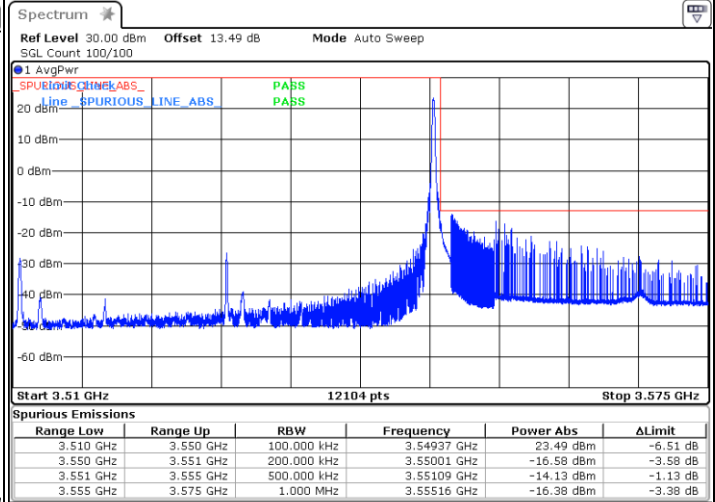
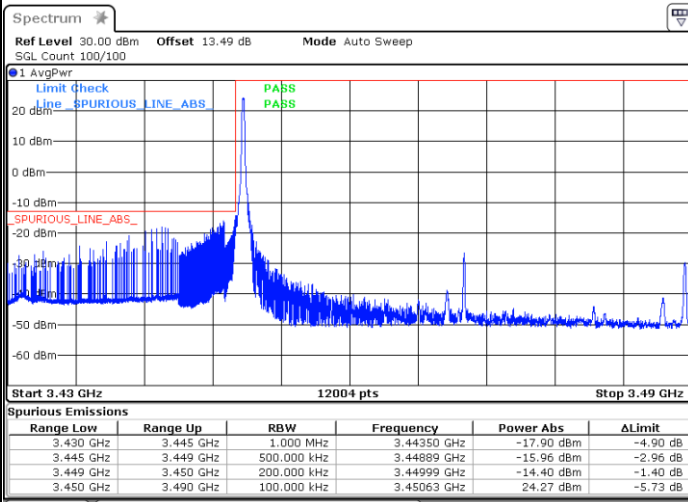




FR1 n78 / 40MHz / DFT-S OFDM / QPSK

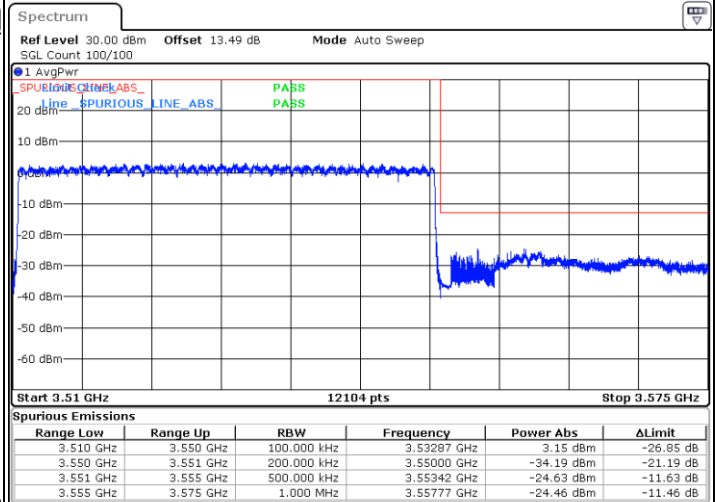
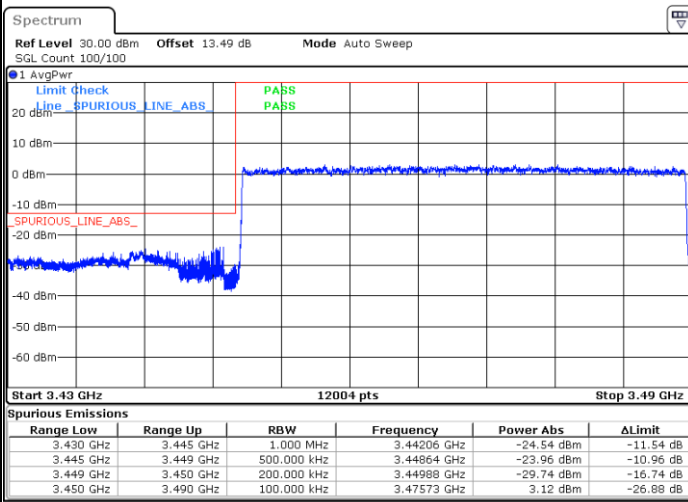
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

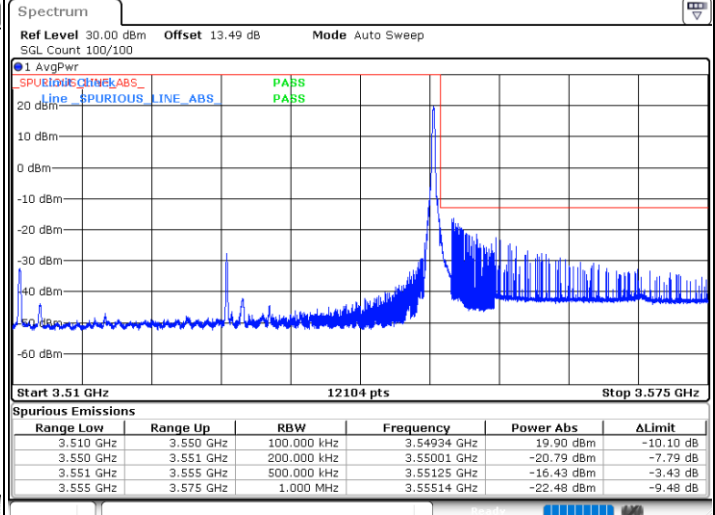
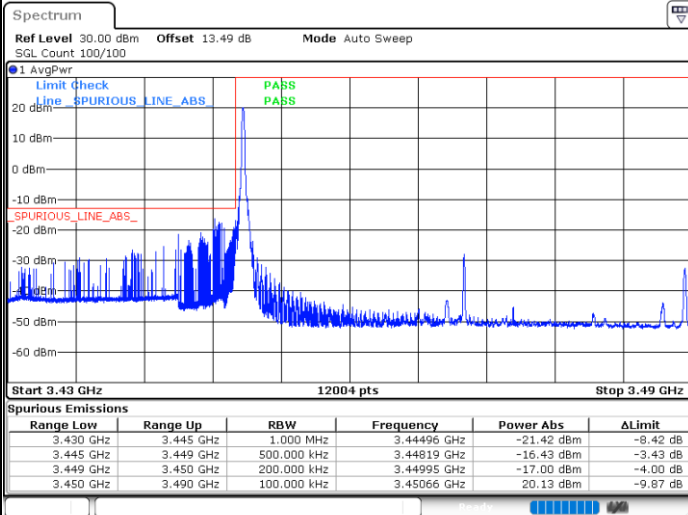




FR1 n78 / 40MHz / DFT-S OFDM / 16Q

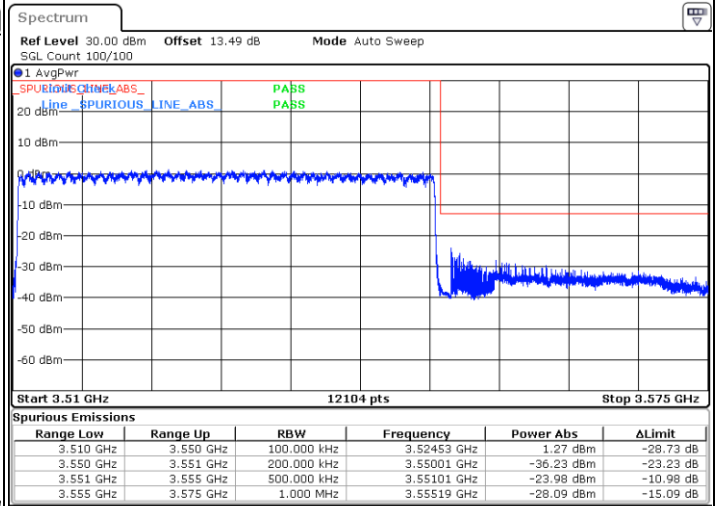
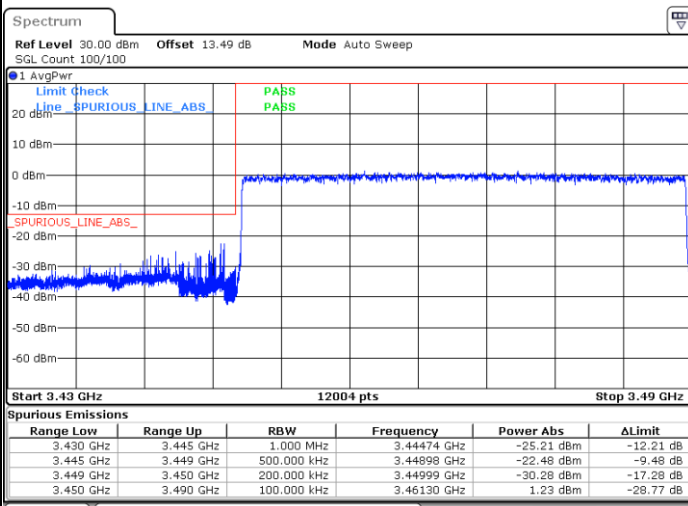
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

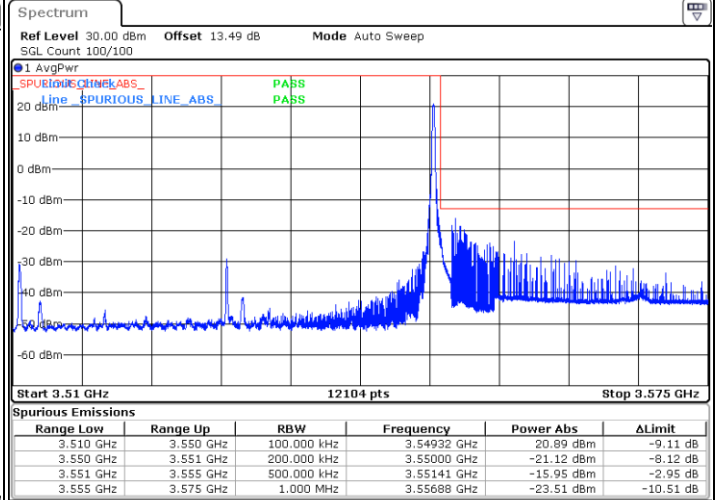
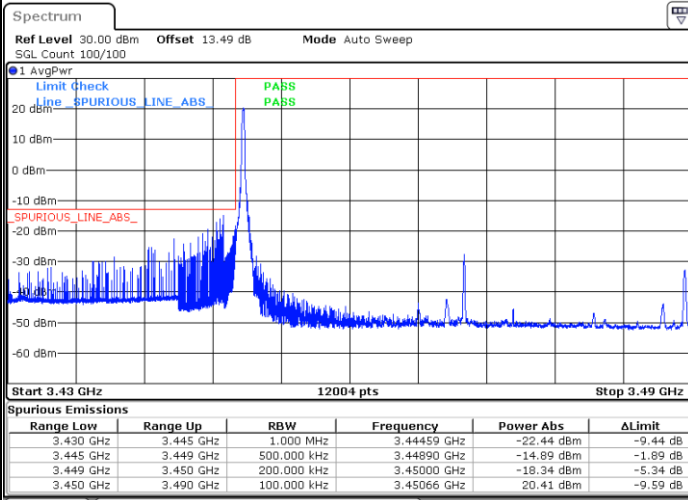




FR1 n78 / 40MHz / DFT-S OFDM / 64Q

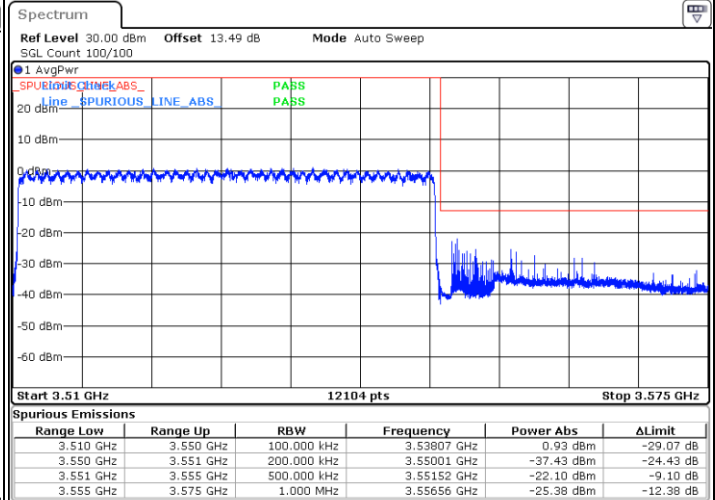
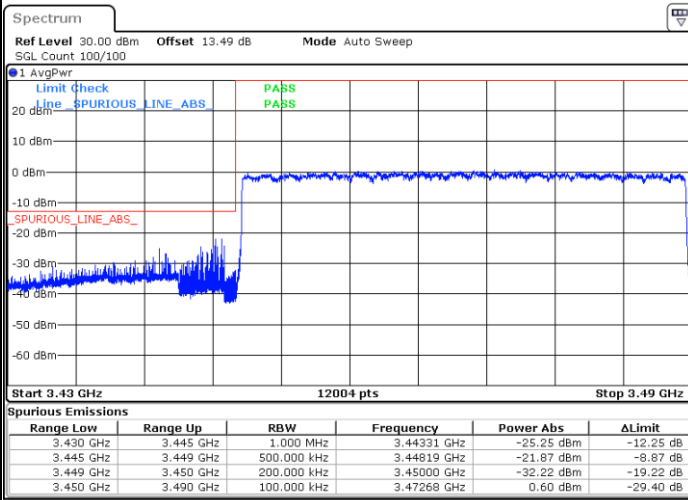
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

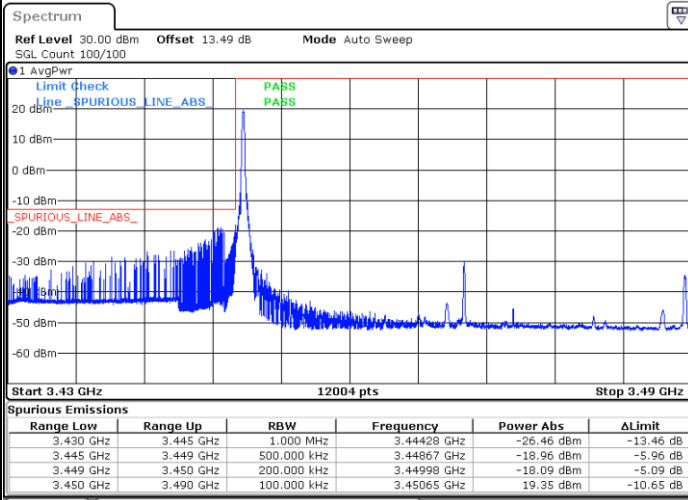




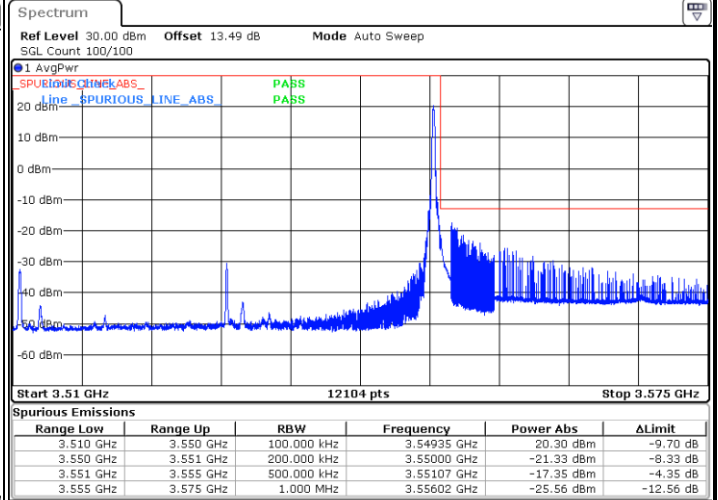
FR1 n78 / 40MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



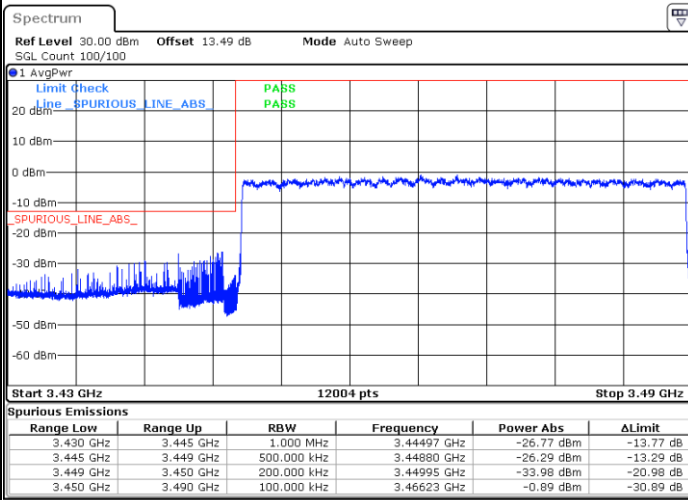
Date: 3.APR.2022 17:01:39



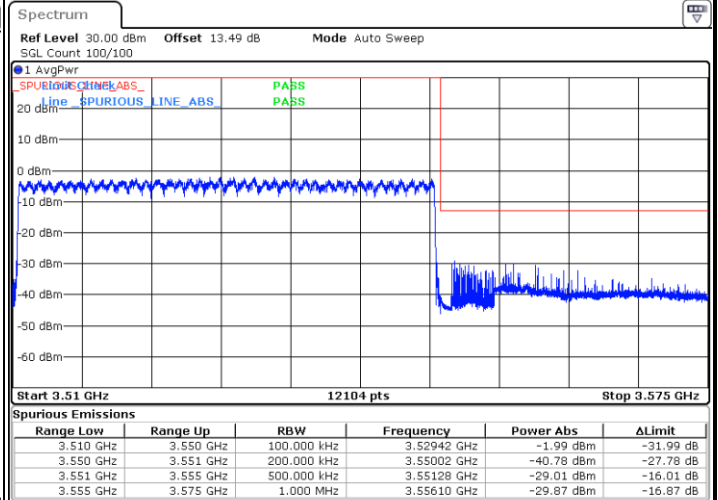
Date: 3.APR.2022 17:10:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.APR.2022 17:00:56



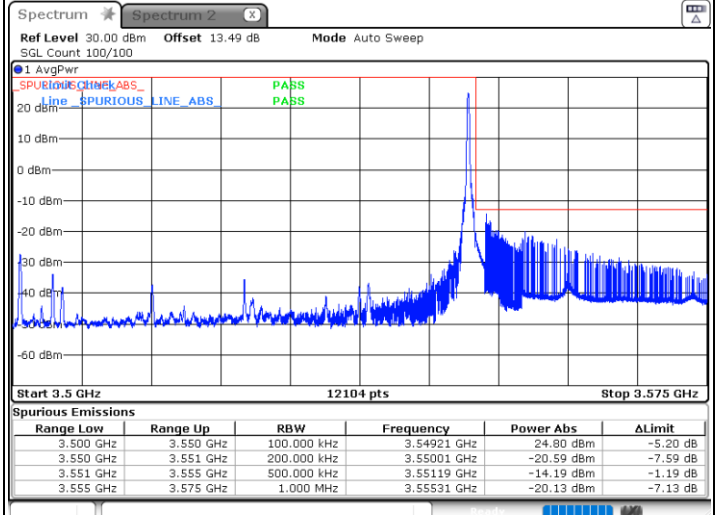
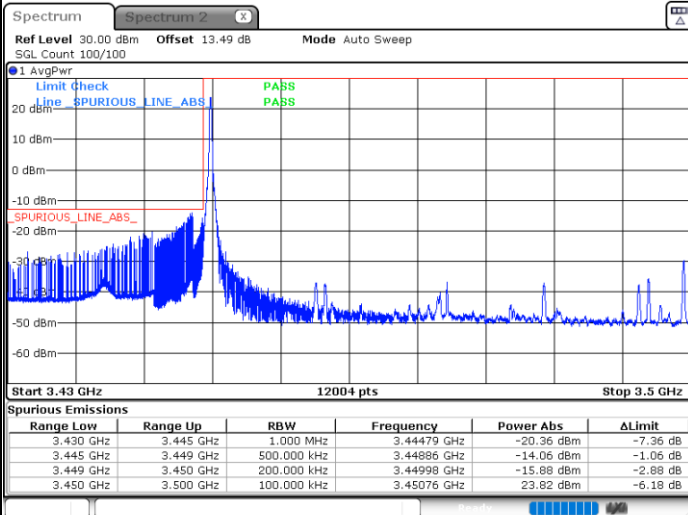
Date: 3.APR.2022 17:09:39



FR1 n78 / 50MHz / DFT-S OFDM / PI/2 BPSK

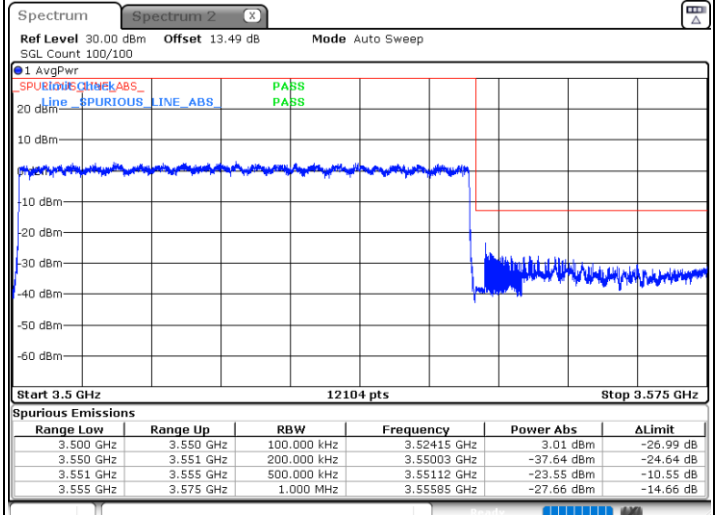
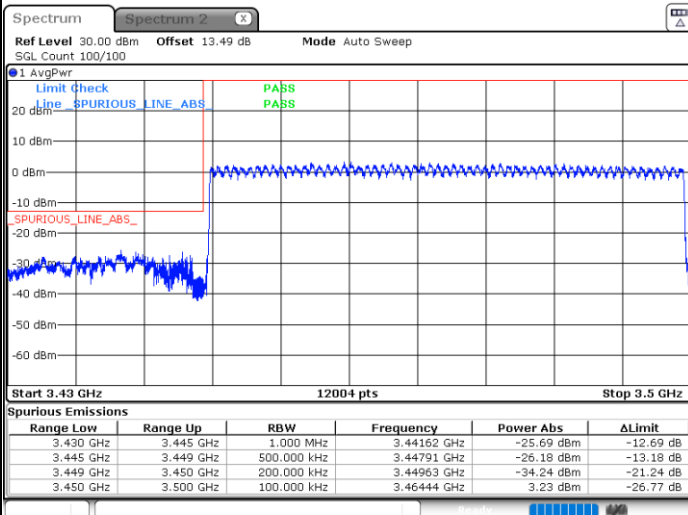
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

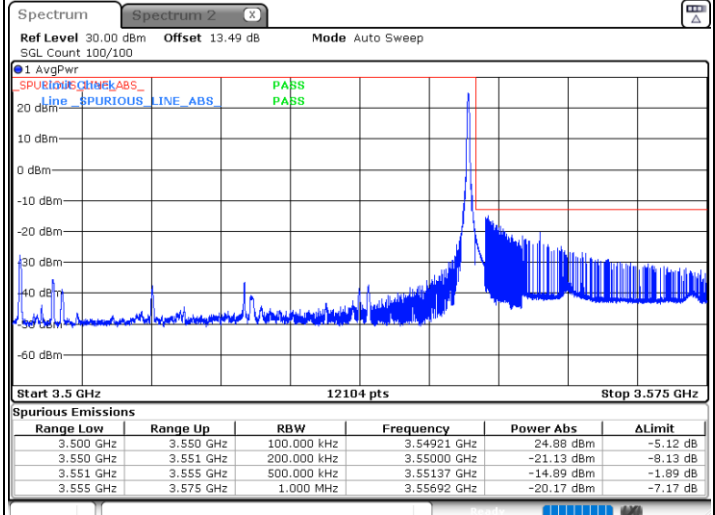
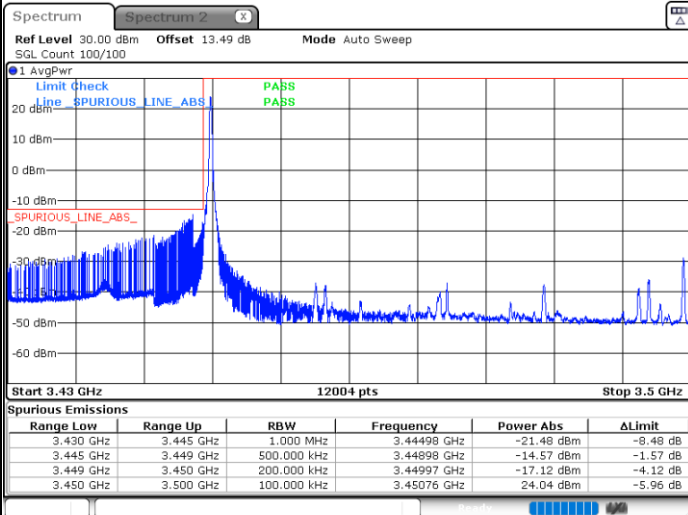




FR1 n78 / 50MHz / DFT-S OFDM / QPSK

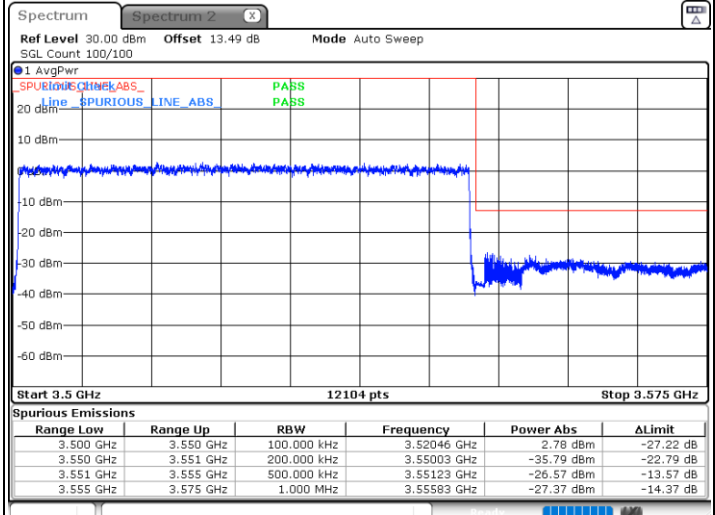
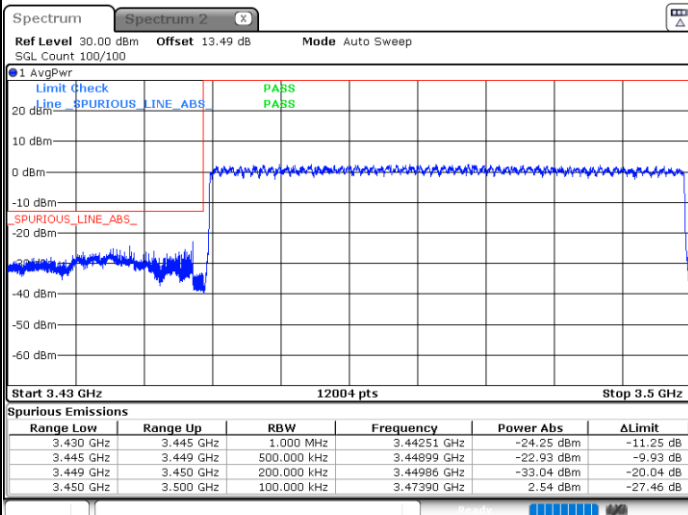
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

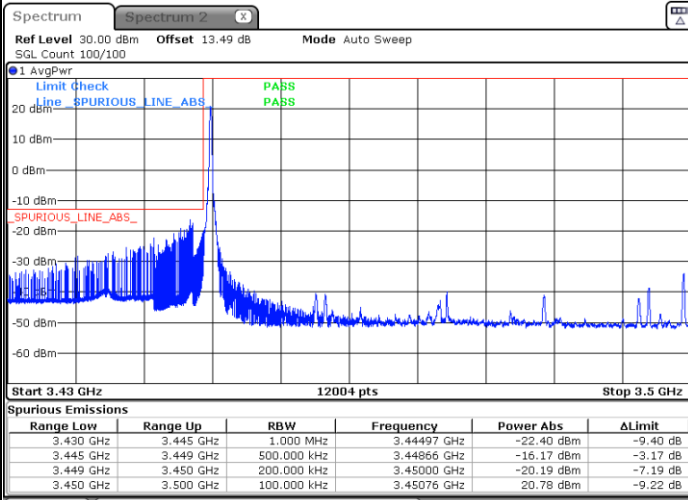




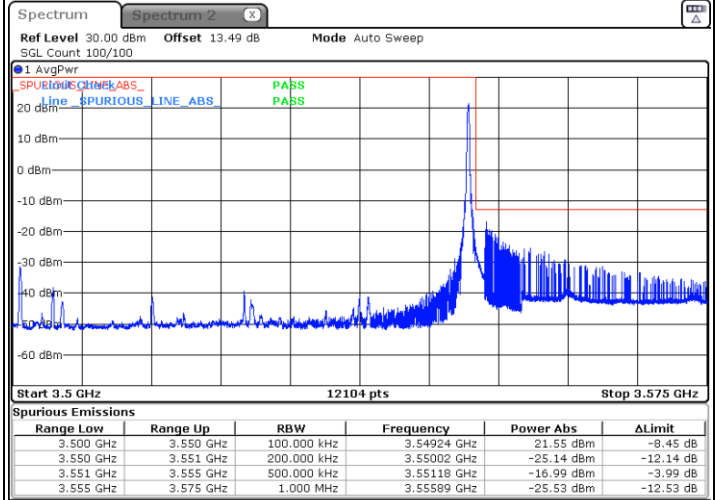
FR1 n78 / 50MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



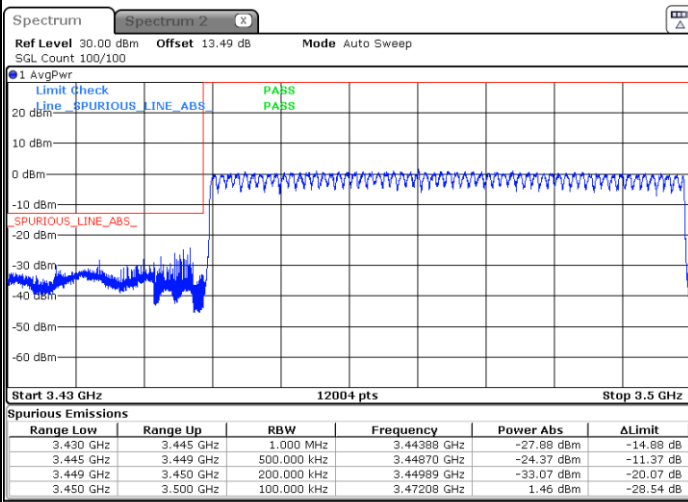
Date: 25.MAR.2022 15:36:27



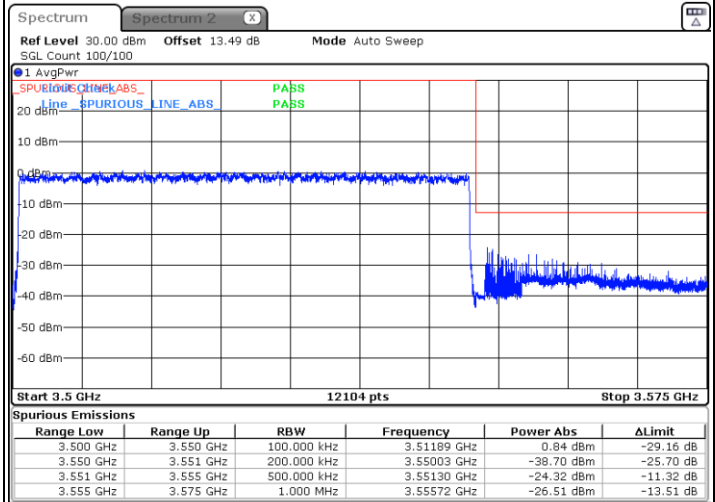
Date: 25.MAR.2022 15:47:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.MAR.2022 15:32:10

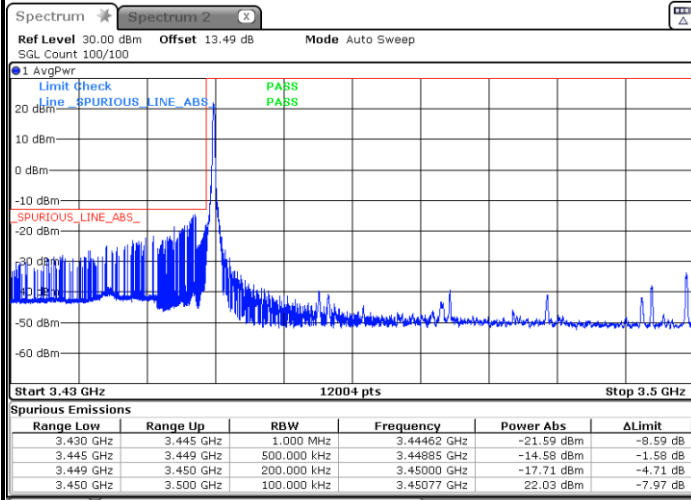


Date: 25.MAR.2022 15:44:15

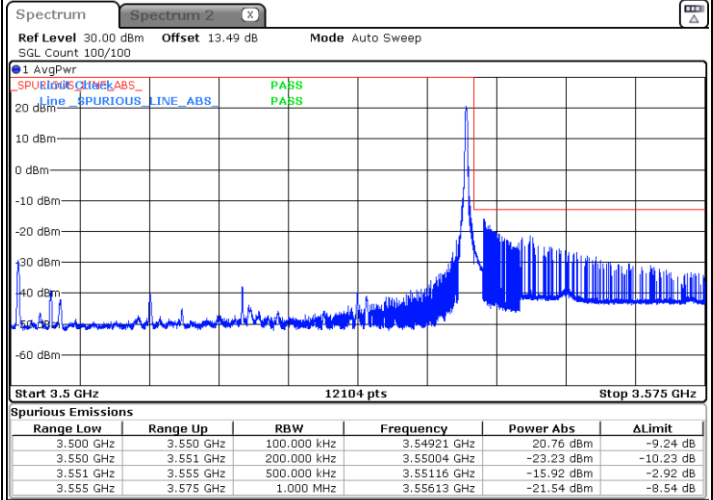


FR1 n78 / 50MHz / DFT-S OFDM / 64Q

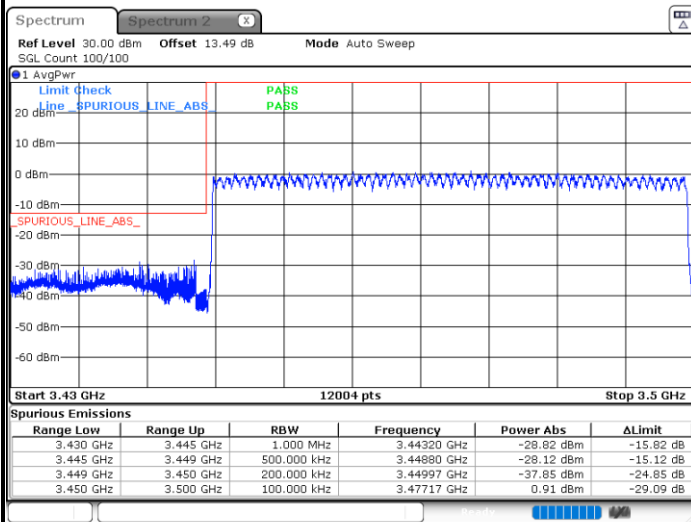
Lowest Band Edge / 1RB0



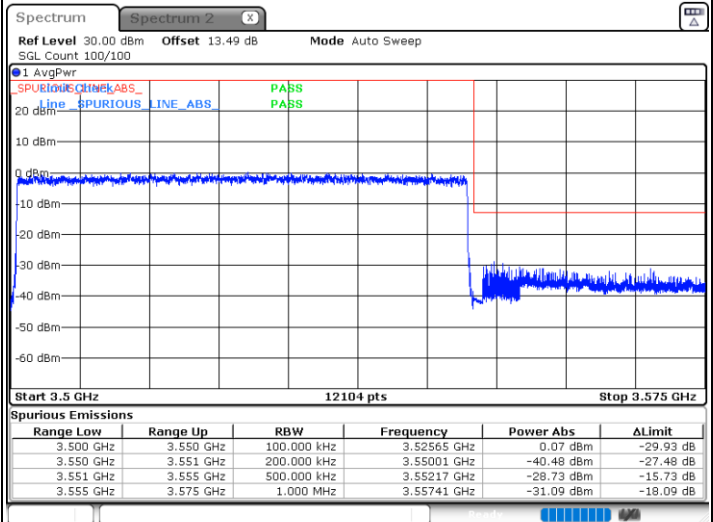
Highest Band Edge / 1RB24



Lowest Band Edge / Full RB



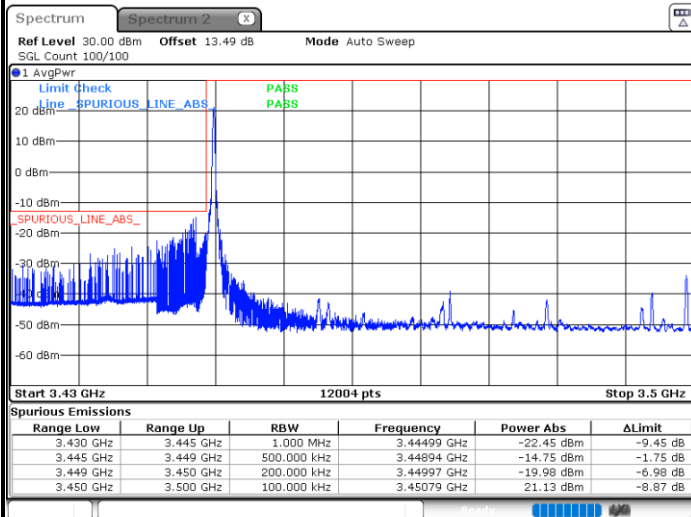
Highest Band Edge / Full RB



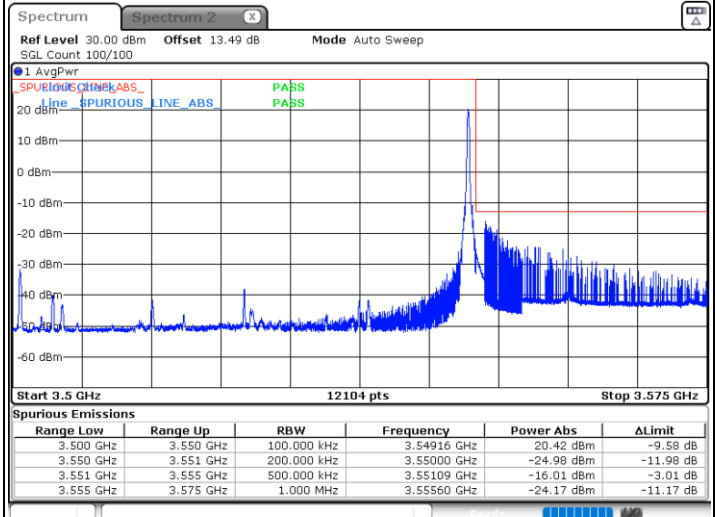


FR1 n78 / 50MHz / DFT-S OFDM / 256Q

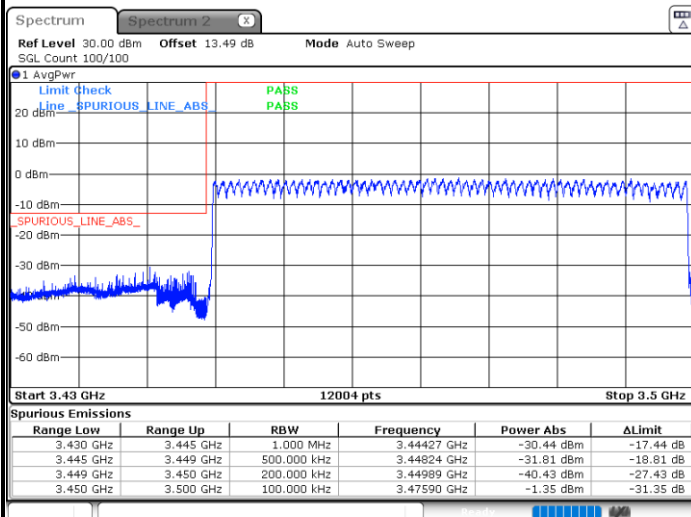
Lowest Band Edge / 1RB0



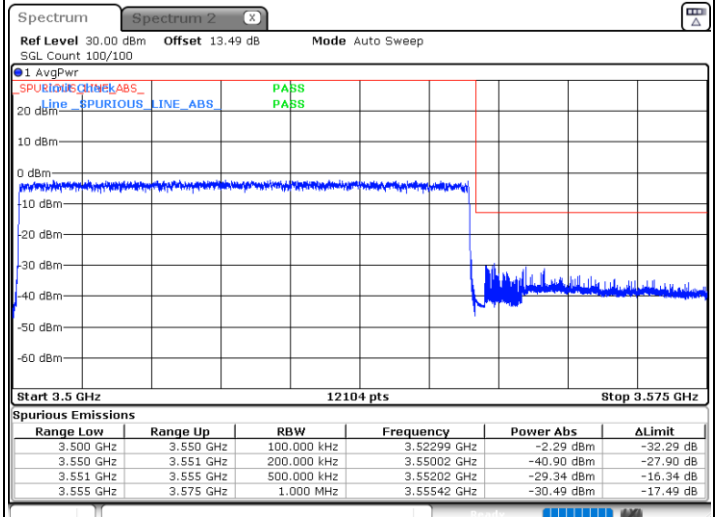
Highest Band Edge / 1RB24



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

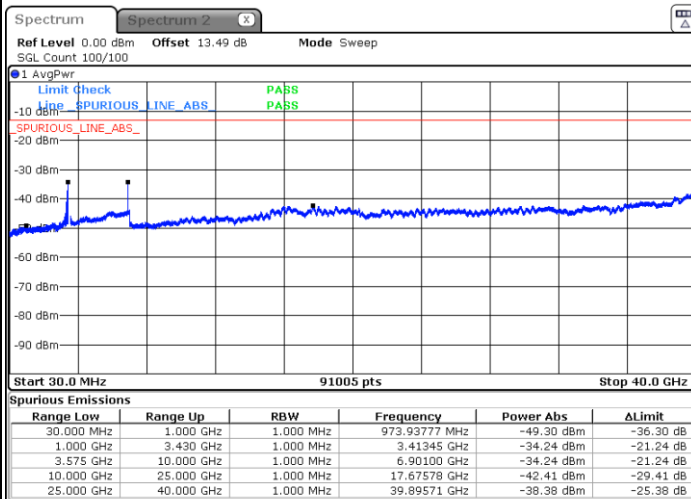




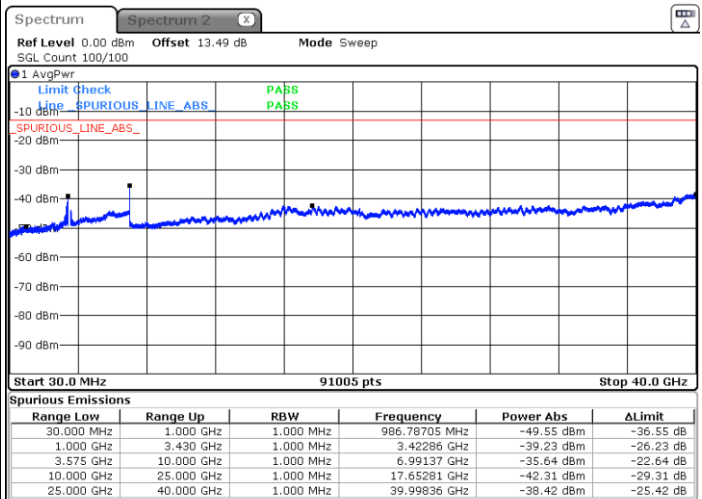
Conducted Spurious Emission

FR1 n78 / 10MHz / DFT-S OFDM / QPSK

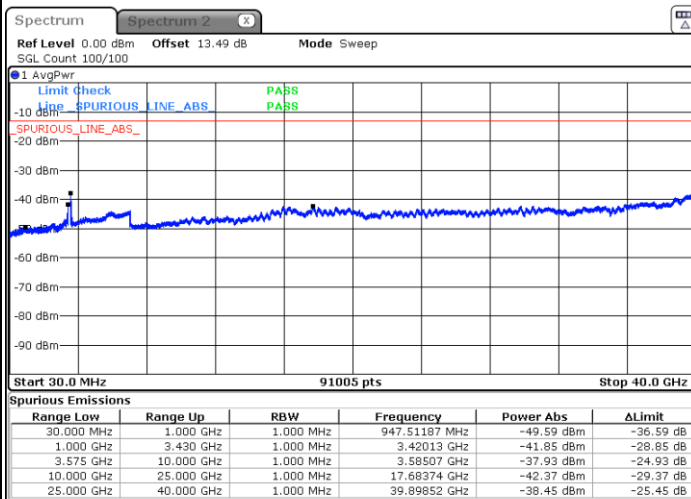
Lowest Channel / 1RB1



Middle Channel / 1RB1



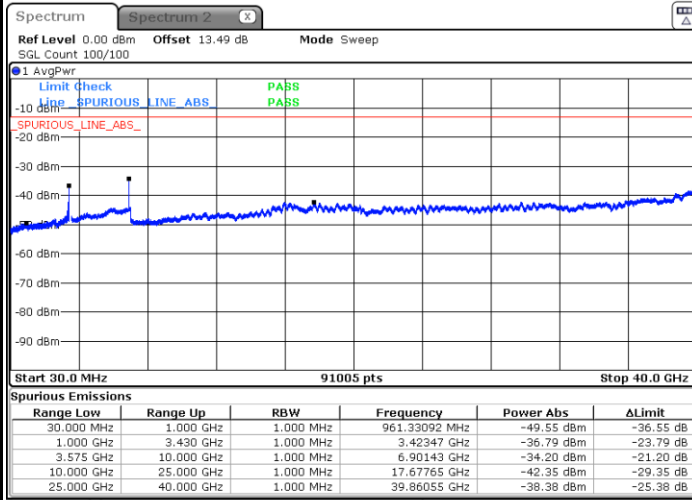
Highest Channel / 1RB1





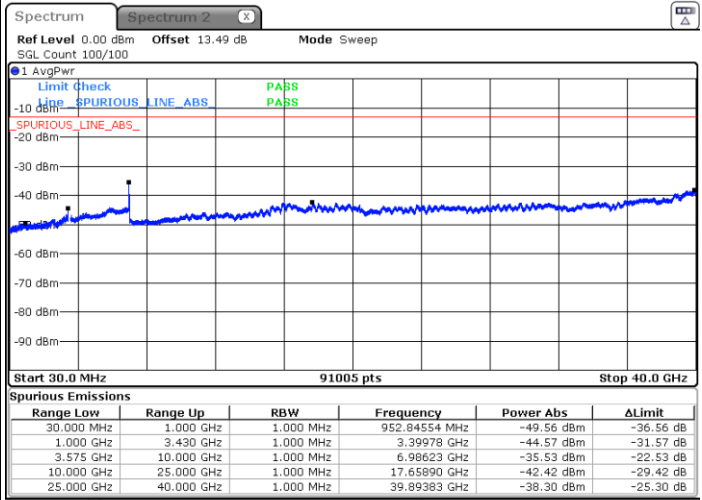
FR1 n78 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



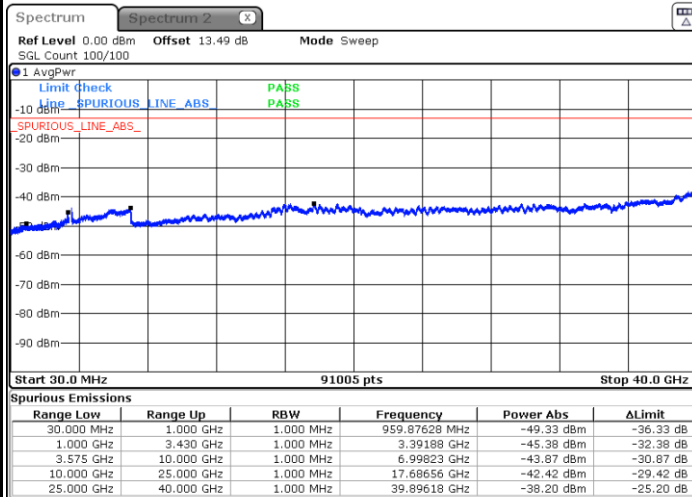
Date: 25.MAR.2022 10:57:21

Middle Channel / 1RB1



Date: 25.MAR.2022 10:58:46

Highest Channel / 1RB1

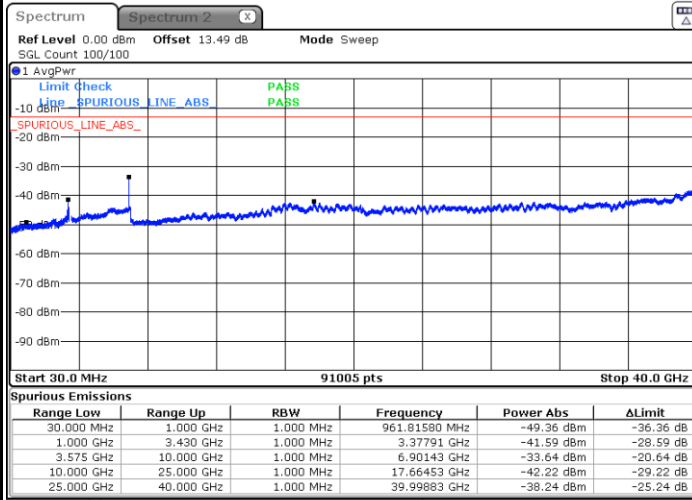


Date: 25.MAR.2022 11:00:12



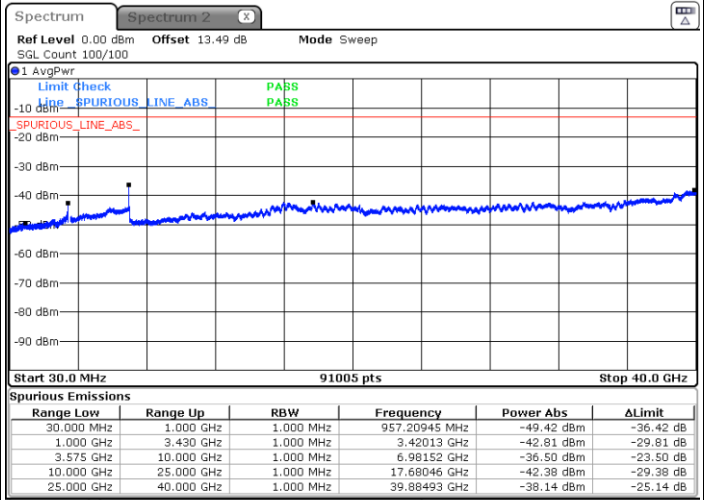
FR1 n78 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



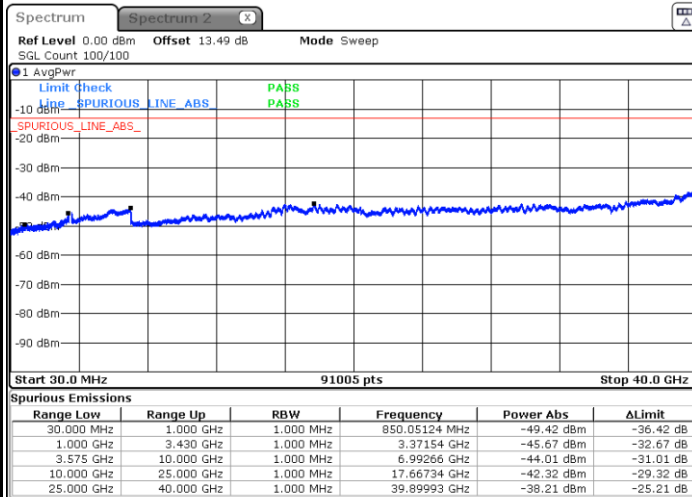
Date: 25.MAR.2022 11:44:35

Middle Channel / 1RB1



Date: 25.MAR.2022 11:46:25

Highest Channel / 1RB1

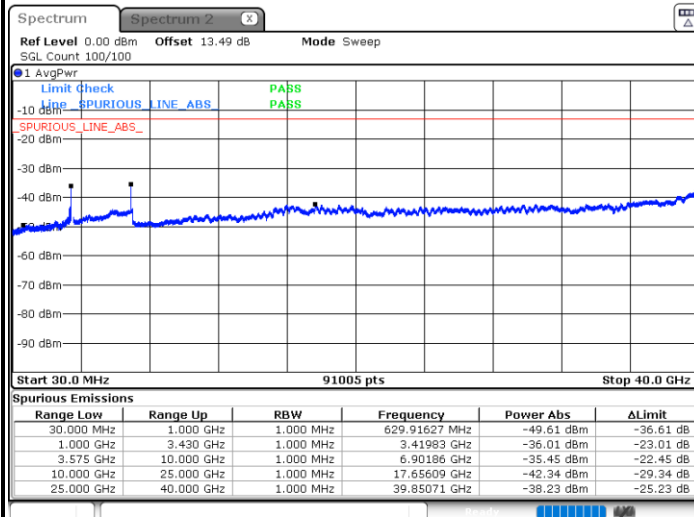


Date: 25.MAR.2022 11:47:43

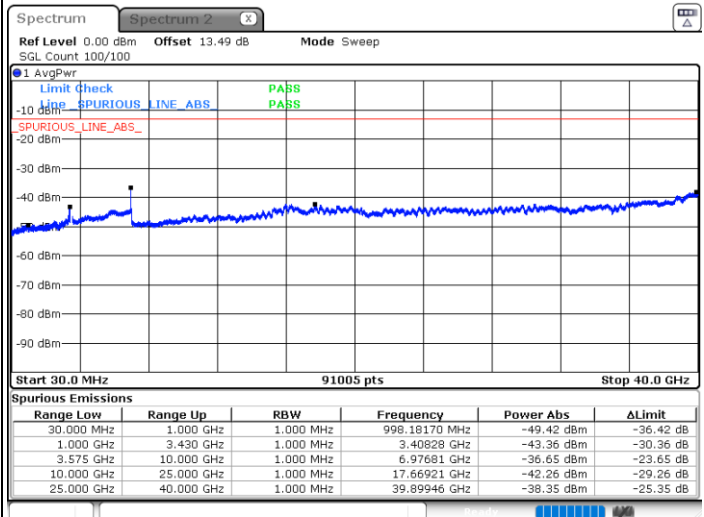


FR1 n78 / 25MHz / DFT-S OFDM / QPSK

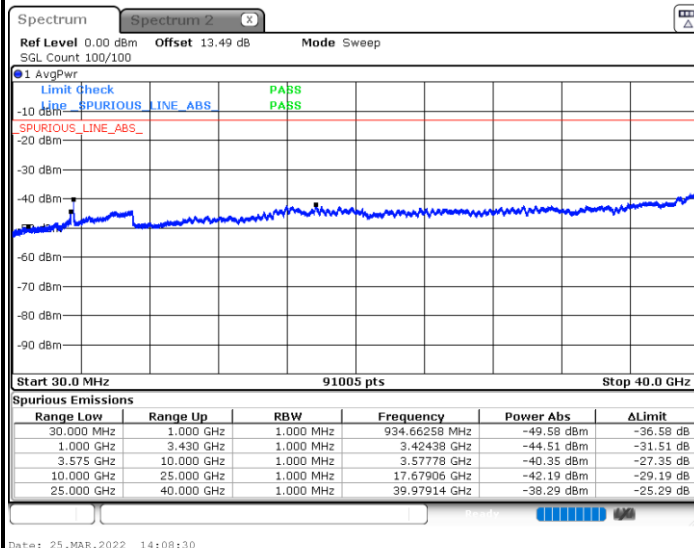
Lowest Channel / 1RB1



Middle Channel / 1RB1



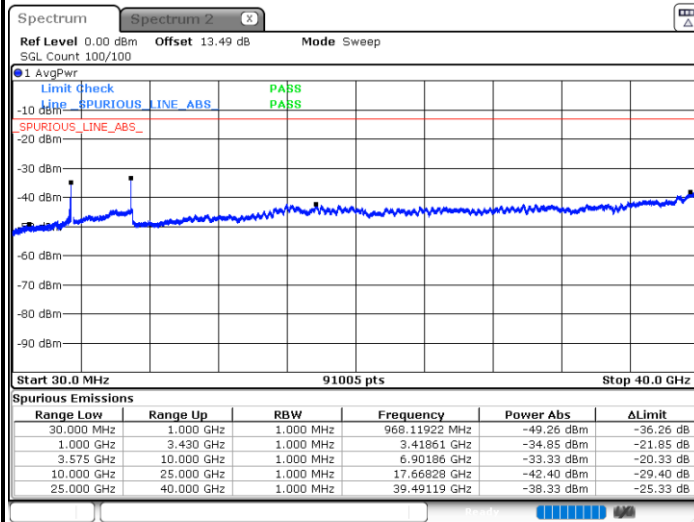
Highest Channel / 1RB1



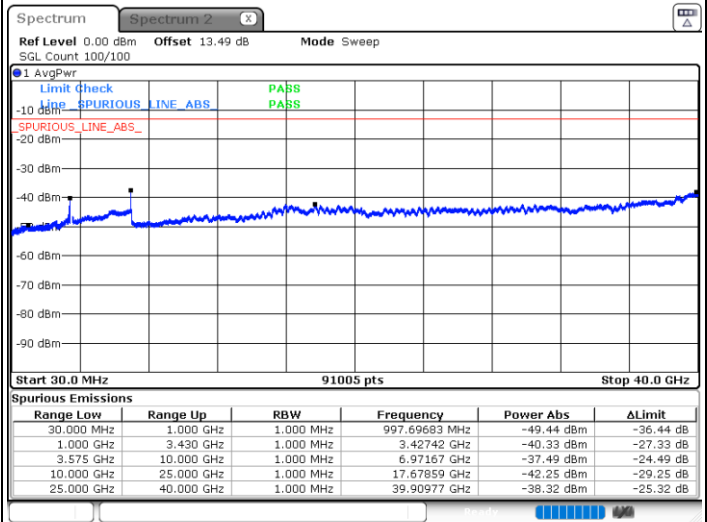


FR1 n78 / 30MHz / DFT-S OFDM / QPSK

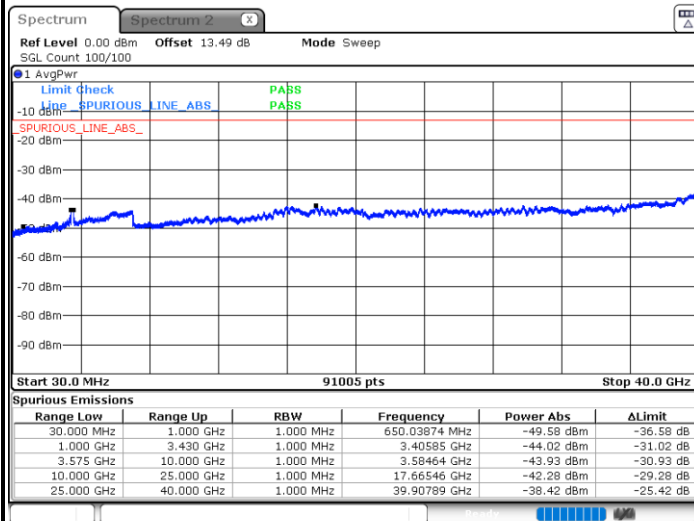
Lowest Channel / 1RB1



Middle Channel / 1RB1



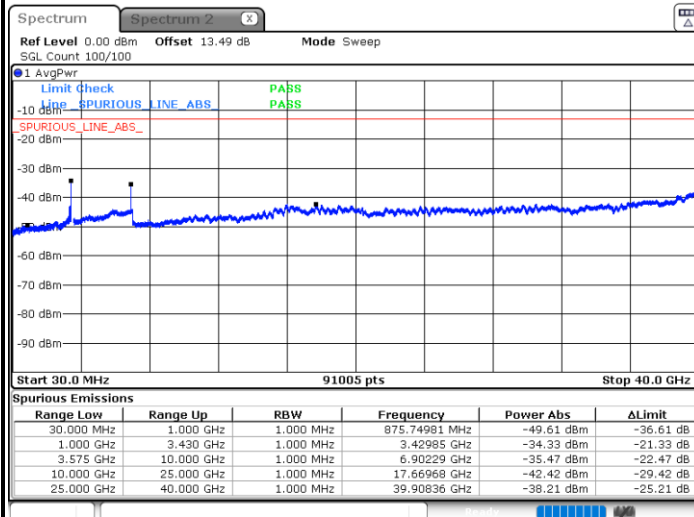
Highest Channel / 1RB1



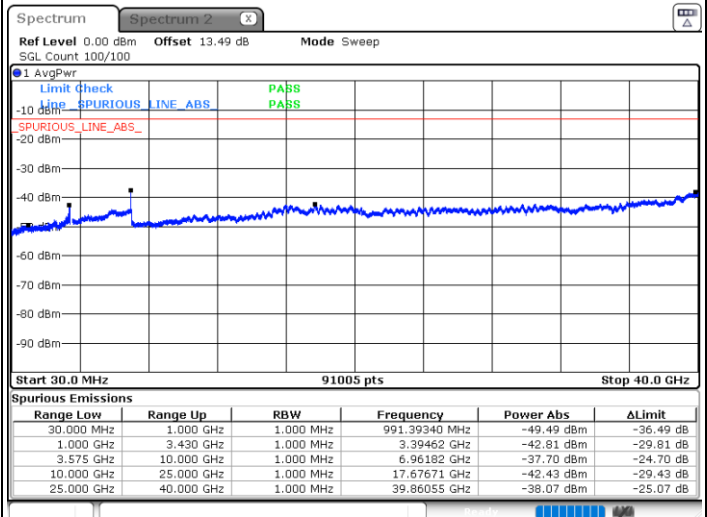


FR1 n78 / 40MHz / DFT-S OFDM / QPSK

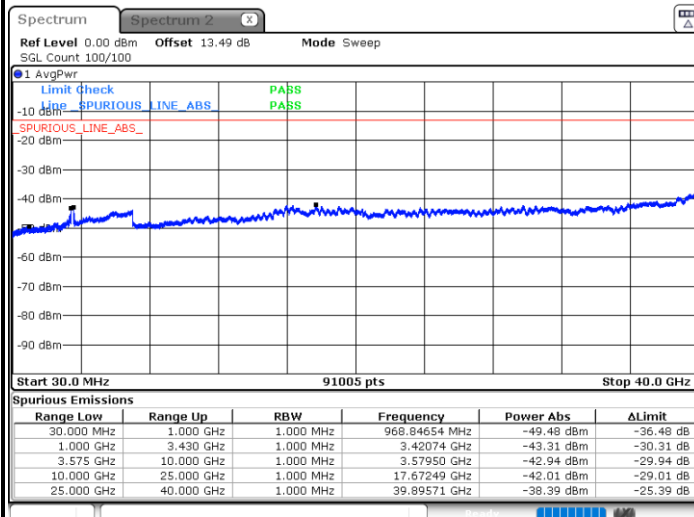
Lowest Channel / 1RB1



Middle Channel / 1RB1



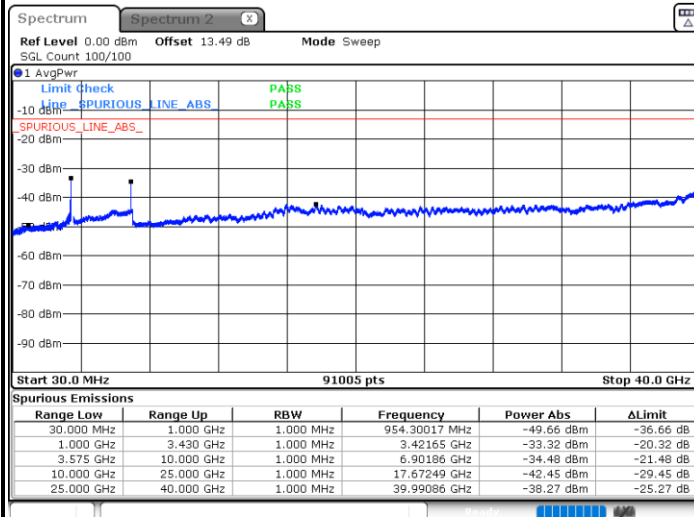
Highest Channel / 1RB1



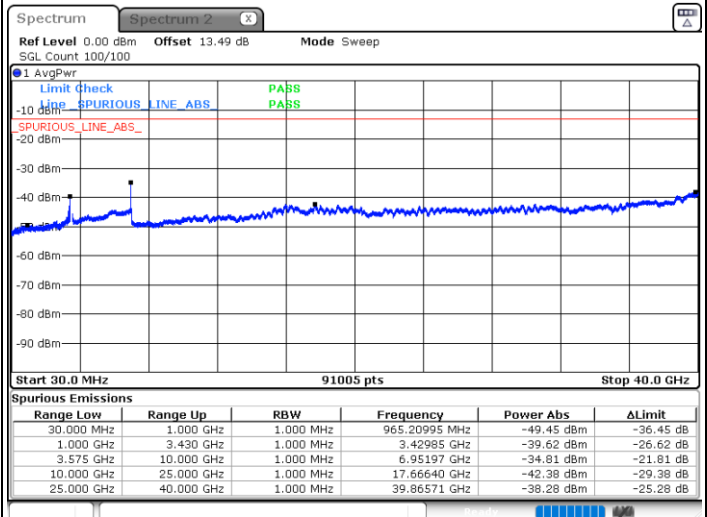


FR1 n78 / 50MHz / DFT-S OFDM / QPSK

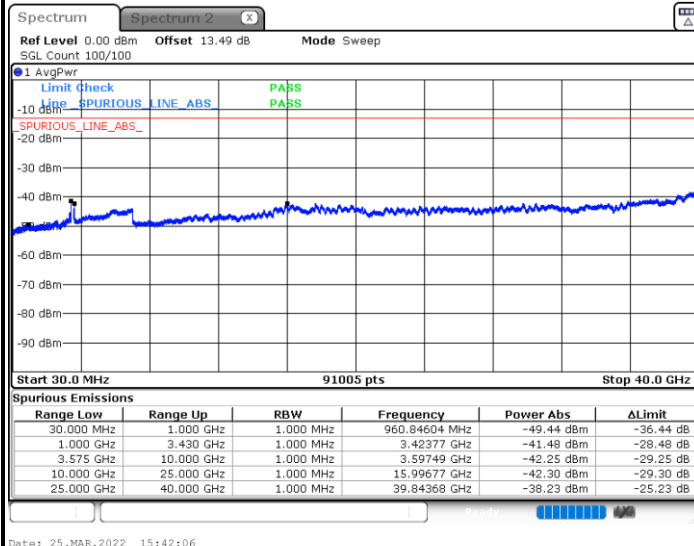
Lowest Channel / 1RB1



Middle Channel / 1RB1



Highest Channel / 1RB1



**Frequency Stability**

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 50MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0032	

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 N78-30K

Transmitter Conducted Output Power And EIRP, (GT-LC)=1.10dB

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP	EIRP	EIRP
Channel				633334	633334	633334	Gain	L	M	H
Frequency (MHz)				3500.01	3500.01	3500.01				
100	PI/2 BPSK	1	1		27.19		1.10		0.6745	
100	PI/2 BPSK	1	137		27.55		1.10		0.7328	
100	PI/2 BPSK	1	271		26.86		1.10		0.6252	
100	PI/2 BPSK	135	0		26.95		1.10		0.6383	
100	PI/2 BPSK	135	67		27.53		1.10		0.7295	
100	PI/2 BPSK	135	138		26.83		1.10		0.6209	
100	PI/2 BPSK	270	0		26.94		1.10		0.6368	
100	QPSK	1	1		26.95		1.10		0.6383	
100	QPSK	1	137		27.54		1.10		0.7311	
100	QPSK	1	271		26.86		1.10		0.6252	
100	QPSK	135	0		26.51		1.10		0.5768	
100	QPSK	135	67		27.62		1.10		0.7447	
100	QPSK	135	138		26.32		1.10		0.5521	
100	QPSK	270	0		26.45		1.10		0.5689	
100	16QAM	1	1		26.04		1.10		0.5176	
100	64QAM	1	1		24.60		1.10		0.3715	
100	256QAM	1	1		22.74		1.10		0.2421	
Channel				633000	633334	633668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3495	3500.01	3505.02				
90	PI/2 BPSK	1	1	27.12	27.06	27.14	1.10	0.6637	0.6546	0.6668
Channel				632668	633334	634000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3490.02	3500.01	3510				
80	PI/2 BPSK	1	1	27.36	27.28	27.21	1.10	0.7015	0.6887	0.6776
Channel				632334	633334	634334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3485.01	3500.01	3515.01				
70	QPSK	1	1	27.31	27.31	27.37	1.10	0.6934	0.6934	0.7031
Channel				632000	633334	634668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3480	3500.01	3520.02				
60	PI/2 BPSK	1	1	27.27	27.32	27.35	1.10	0.6871	0.6950	0.6998
Channel				631668	633334	635000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3475.02	3500.01	3525				
50	PI/2 BPSK	1	1	27.37	27.51	27.59	1.10	0.7031	0.7261	0.7396
Channel				631334	633334	635334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3470.01	3500.01	3530.01				
40	PI/2 BPSK	1	1	27.09	27.21	27.23	1.10	0.6592	0.6776	0.6808
Channel				631000	633334	635668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3465	3500.01	3535.02				
30	PI/2 BPSK	1	1	27.31	27.35	27.44	1.10	0.6934	0.6998	0.7145
Channel				630834	633334	635834	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3462.51	3500.01	3537.51				
25	PI/2 BPSK	1	1	27.33	27.34	27.42	1.10	0.6966	0.6982	0.7112



Channel				630668	633334	636000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3460.02	3500.01	3540				
20	PI/2 BPSK	1	1	27.43	27.45	27.55	1.10	0.7129	0.7161	0.7328
Channel				630500	633334	636168	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3457.5	3500.01	3542.52				
15	PI/2 BPSK	1	1	27.49	27.52	27.57	1.10	0.7228	0.7278	0.7362
Channel				630334	633334	636334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3455.01	3500.01	3545.01				
10	PI/2 BPSK	1	1	27.52	27.48	27.52	1.10	0.7278	0.7211	0.7278

**FR1 n78****Peak-to-Average Ratio**

Mode	FR1 n78 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK	16QAM	64QAM	Result
Middle CH	5.17	5.12	5.36	5.41	PASS
RB Size	256QAM				
Middle CH	5.46				