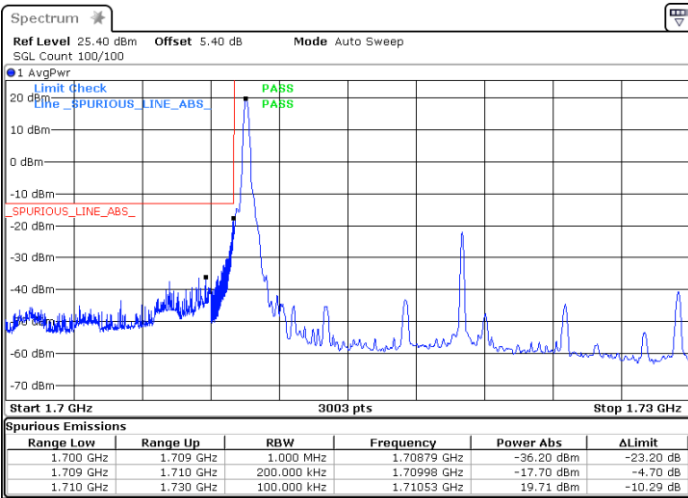




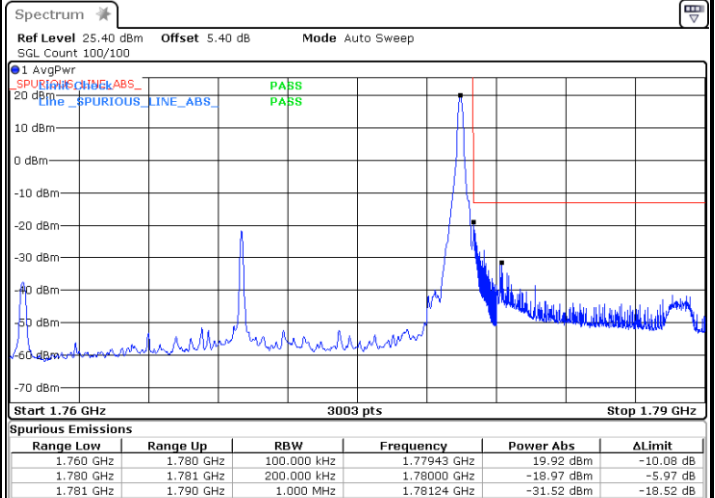
FR1 n66 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



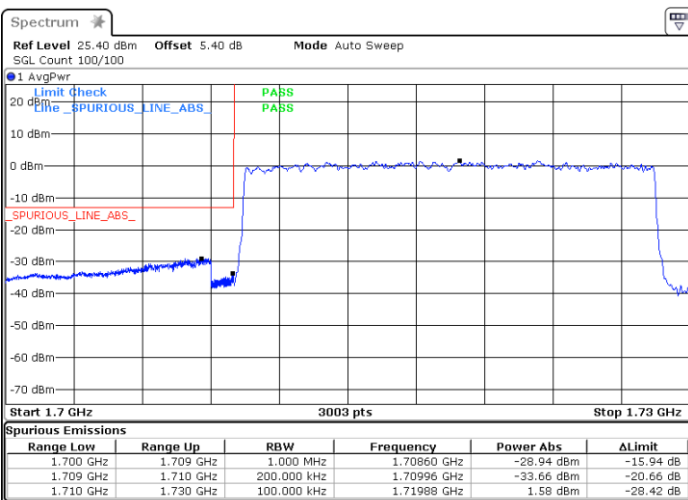
Date: 21.NOV.2020 21:16:09



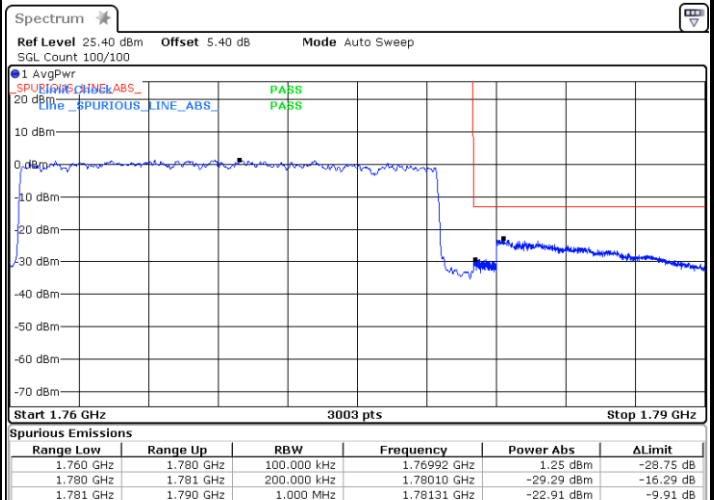
Date: 21.NOV.2020 21:21:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2020 21:12:51



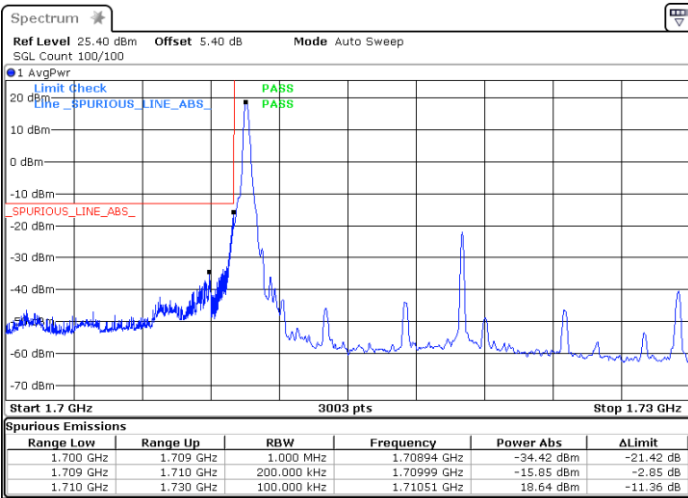
Date: 21.NOV.2020 21:20:15



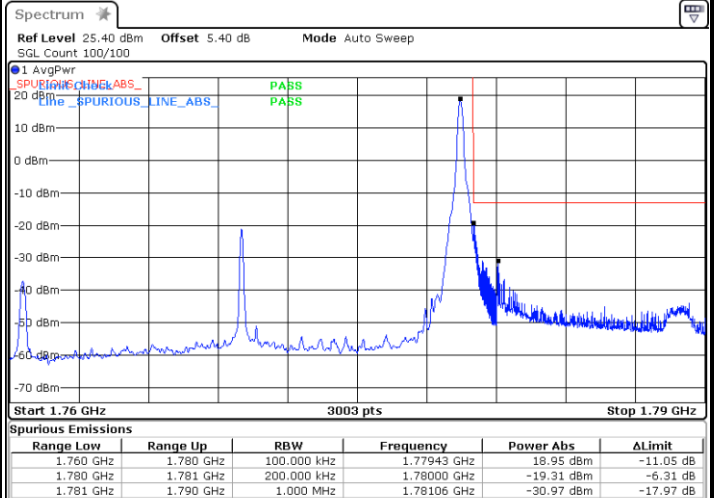
FR1 n66 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



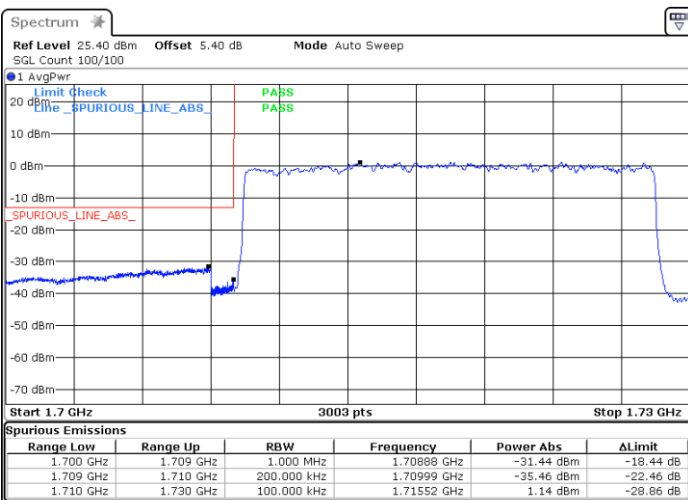
Date: 21.NOV.2020 21:16:54



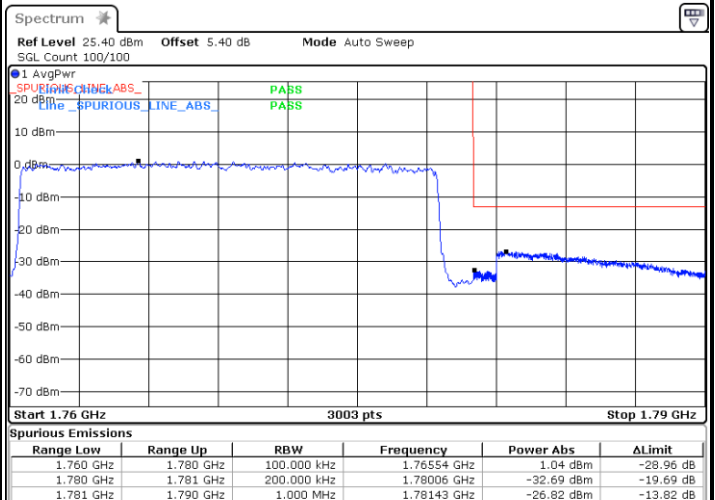
Date: 21.NOV.2020 21:21:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2020 21:13:04



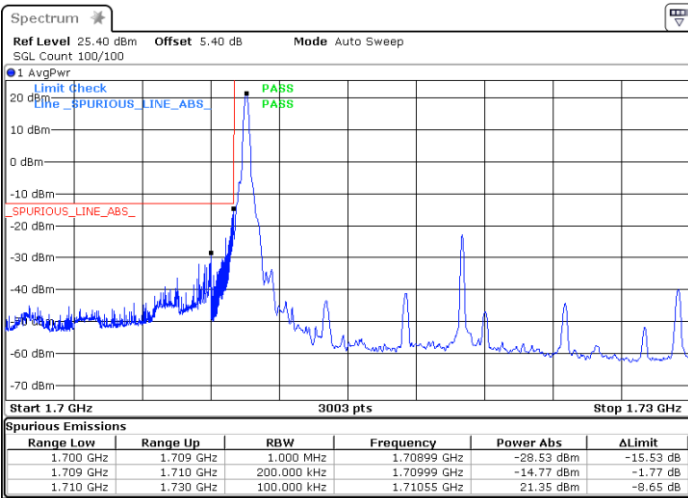
Date: 21.NOV.2020 21:20:27



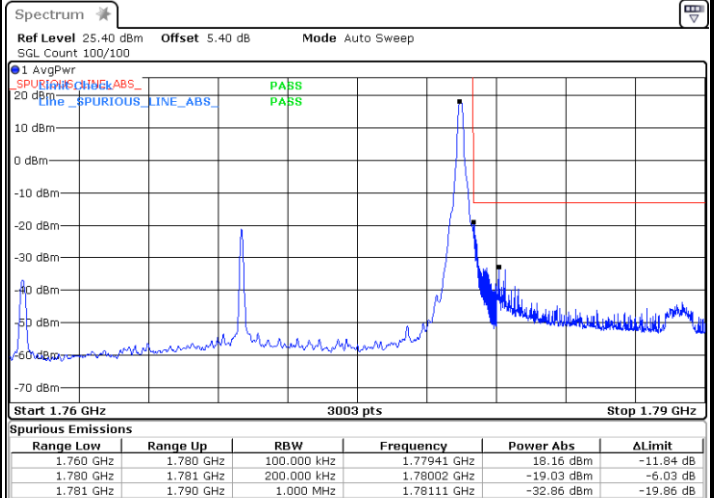
FR1 n66 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



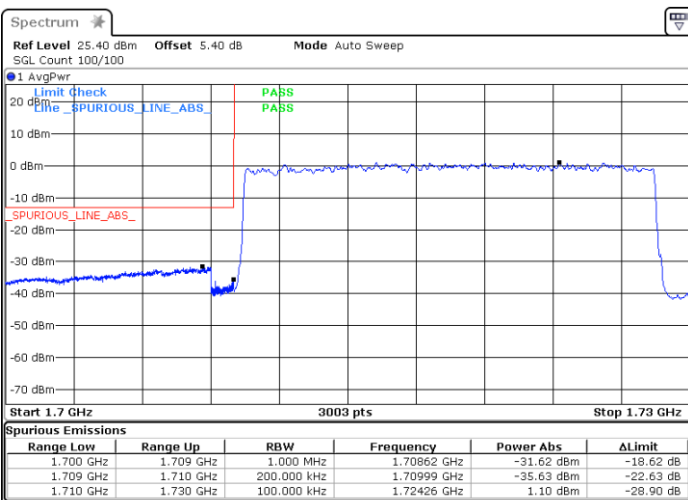
Date: 21.NOV.2020 21:14:38



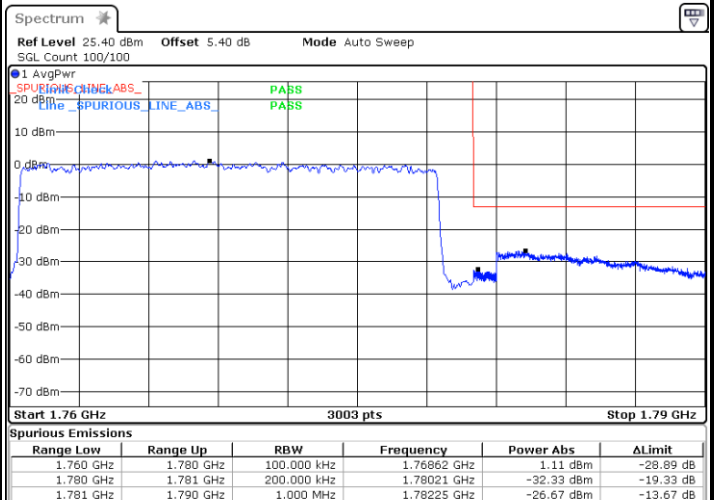
Date: 21.NOV.2020 21:22:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2020 21:13:19



Date: 21.NOV.2020 21:20:39

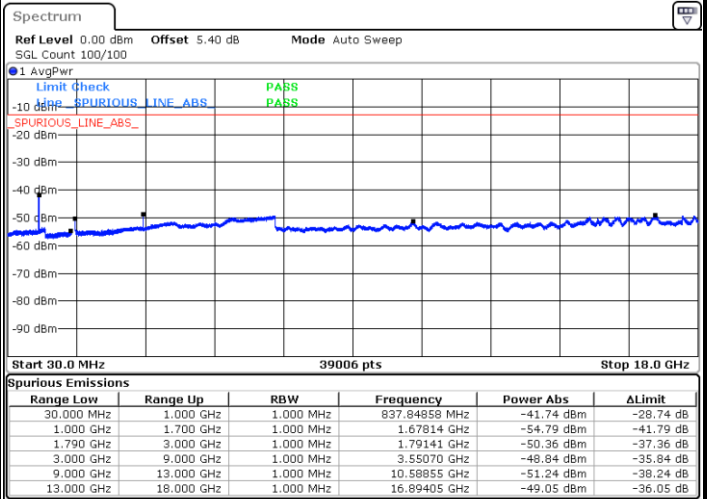
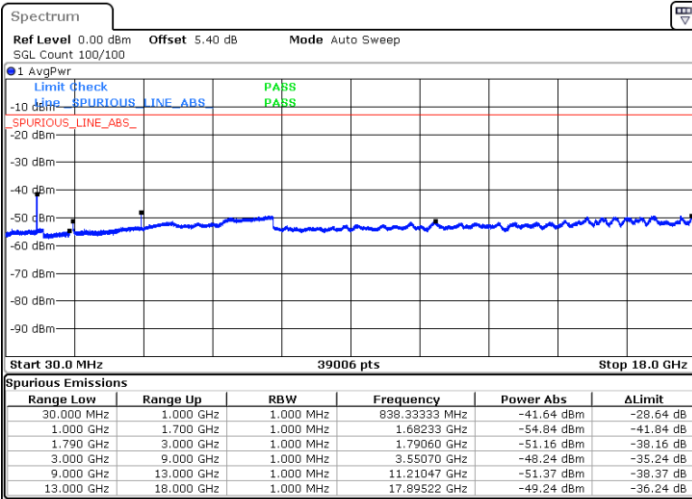


Conducted Spurious Emission

FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

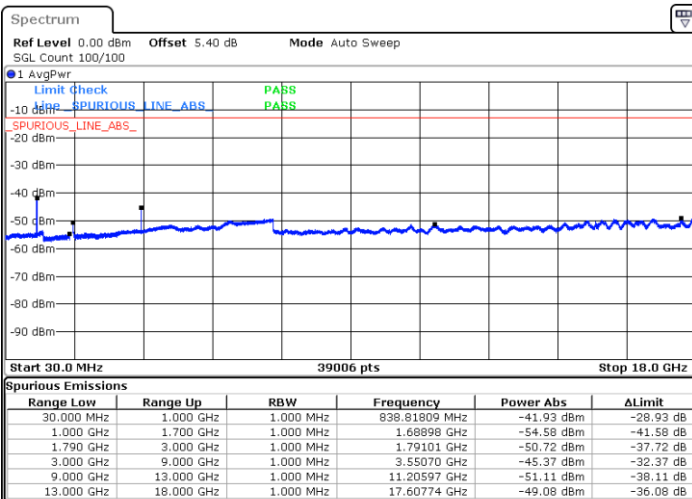
Middle Channel / 1RB1



Date: 2 DEC.2020 11:04:08

Date: 2 DEC.2020 11:02:15

Highest Channel / 1RB1

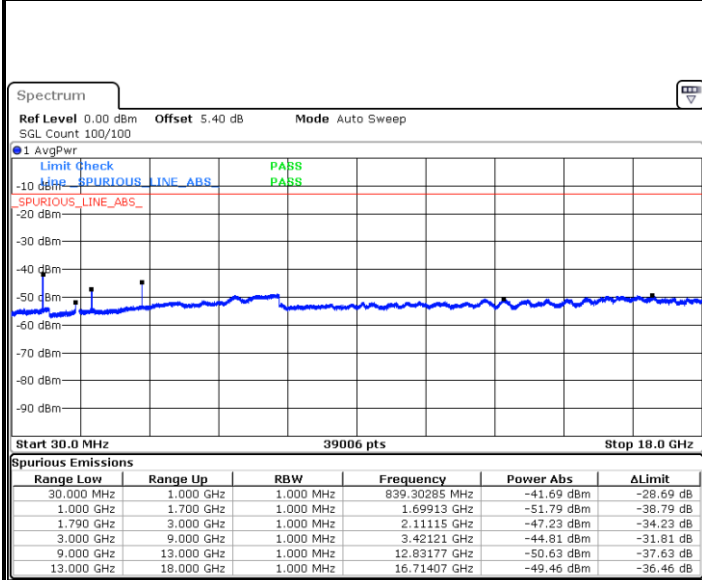


Date: 2 DEC.2020 10:46:58



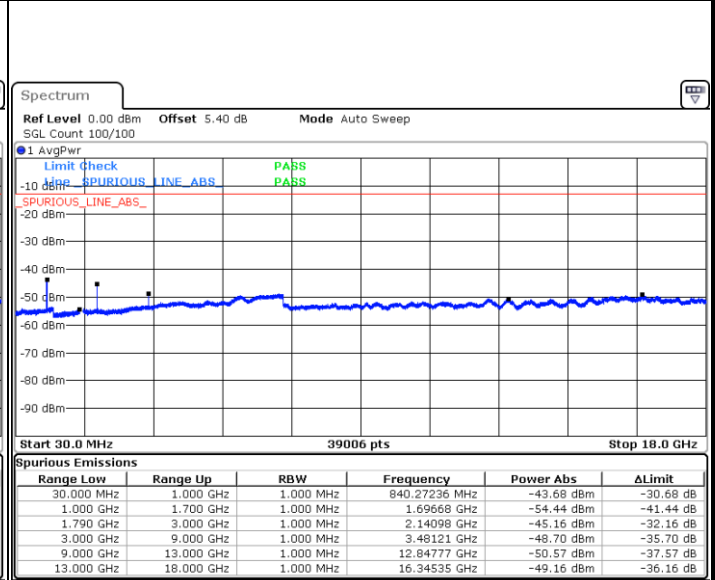
FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



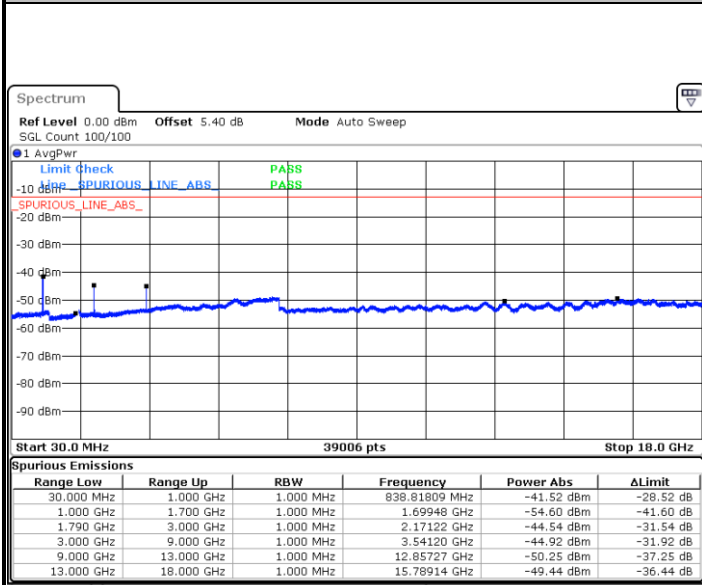
Date: 21.NOV.2020 22:04:01

Middle Channel / 1RB1



Date: 21.NOV.2020 22:07:48

Highest Channel / 1RB1



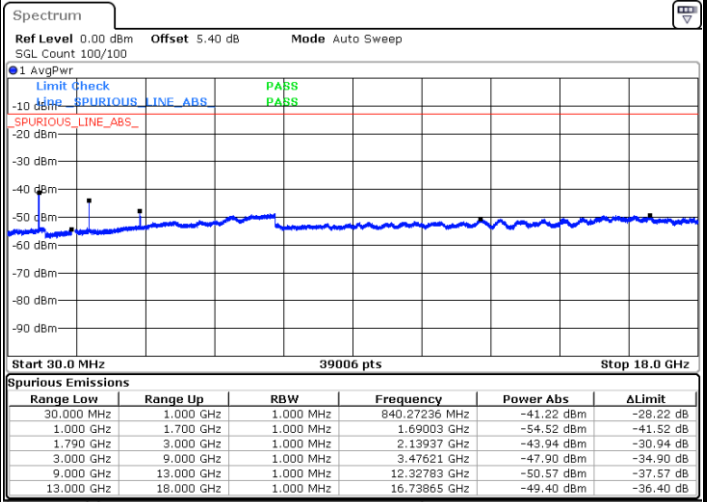
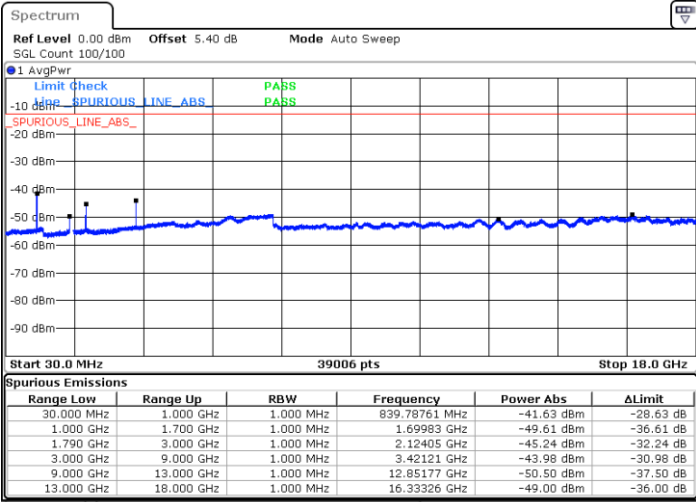
Date: 21.NOV.2020 22:11:46



FR1 n66 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

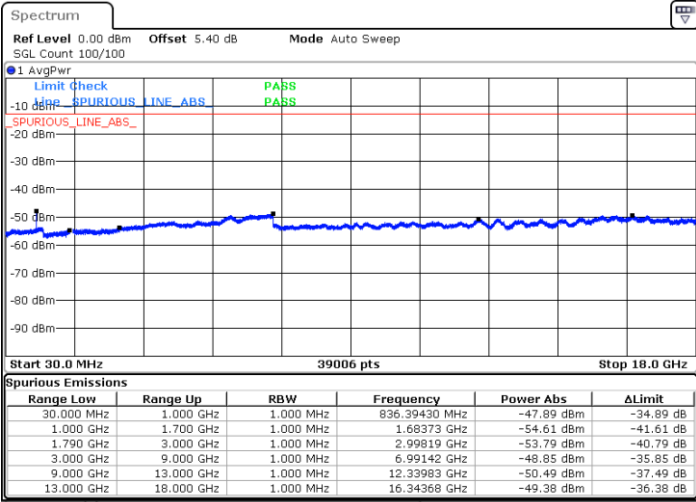
Middle Channel / 1RB1



Date: 21.NOV.2020 22:15:41

Date: 21.NOV.2020 22:19:55

Highest Channel / 1RB1



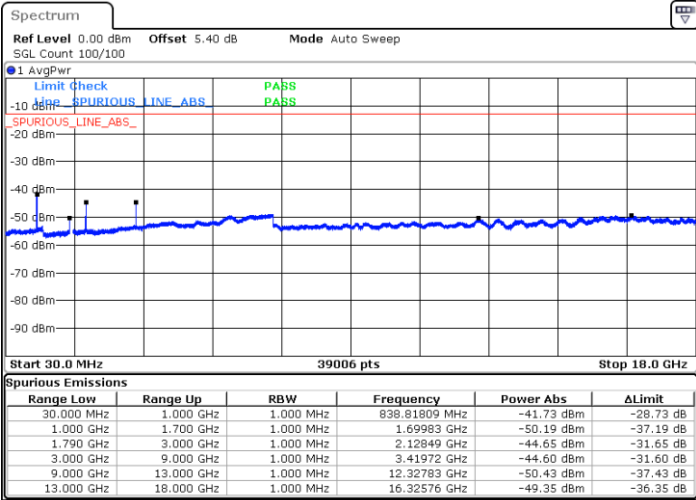
Date: 21.NOV.2020 22:24:28



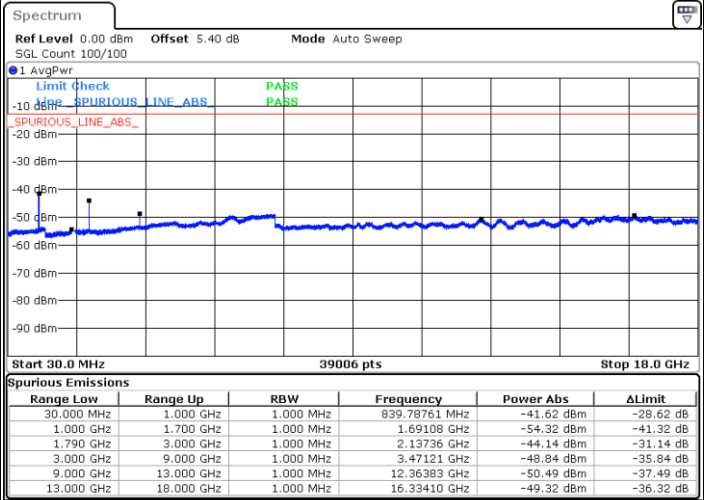
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

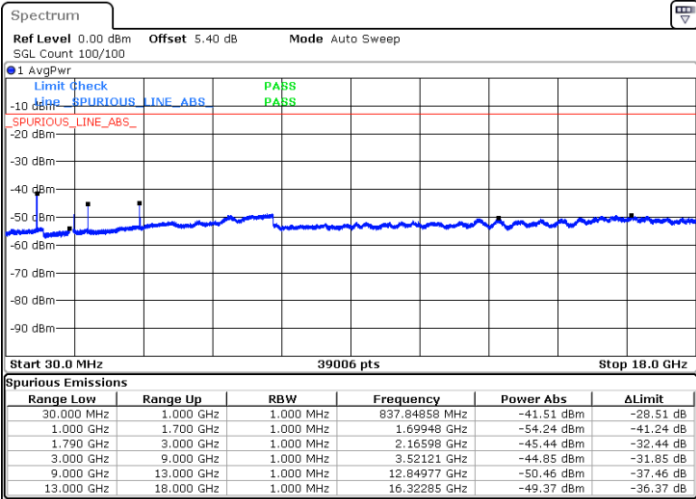


Date: 21.NOV.2020 22:29:19



Date: 21.NOV.2020 22:35:22

Highest Channel / 1RB1



Date: 21.NOV.2020 22:38:41



Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n77

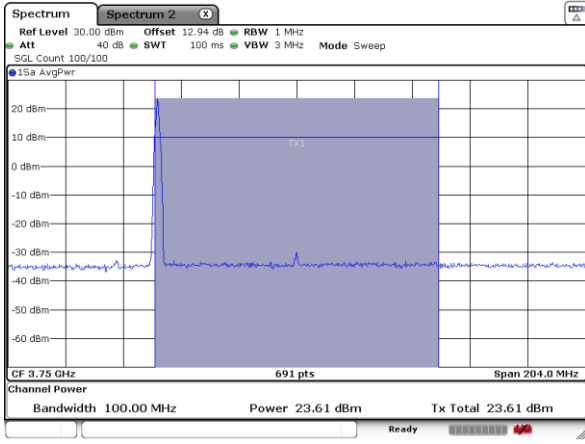
Peak-to-Average Ratio

Mode	FR1 n77 / 100MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	1 RB	1 RB	1 RB	1 RB	Result
Lowest CH	2.95	3.71	3.94	5.67	PASS
Middle CH	2.54	4.34	5.81	5.4	
Highest CH	2.36	3.85	3.99	4.85	
Mode	FR1 n77 / 100MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	1 RB				Result
Lowest CH	4.86				PASS
Middle CH	3.4				
Highest CH	3.71				
Mode	FR1 n77 / 100MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Lowest CH	5.06	5.3	5.2	5.4	PASS
Middle CH	5.22	5.33	5.36	5.21	
Highest CH	5.28	5.2	5.5	5.36	
Mode	FR1 n77 / 100MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	5.28				PASS
Middle CH	5.16				
Highest CH	5.44				

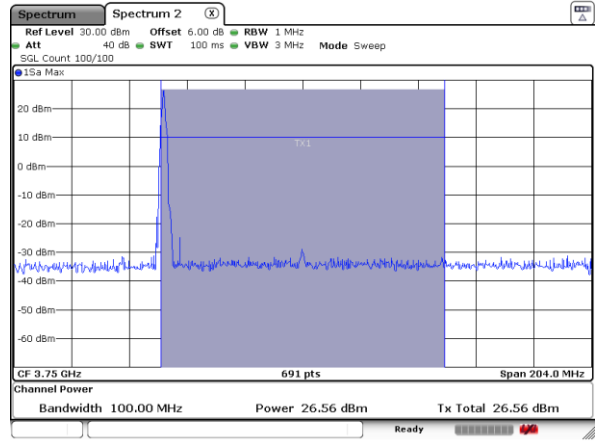


FR1 n77 / 20MHz / DFT-S OFDM

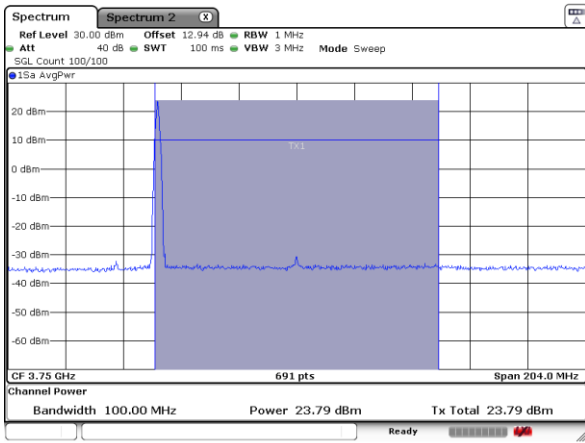
L-1RB-B-A



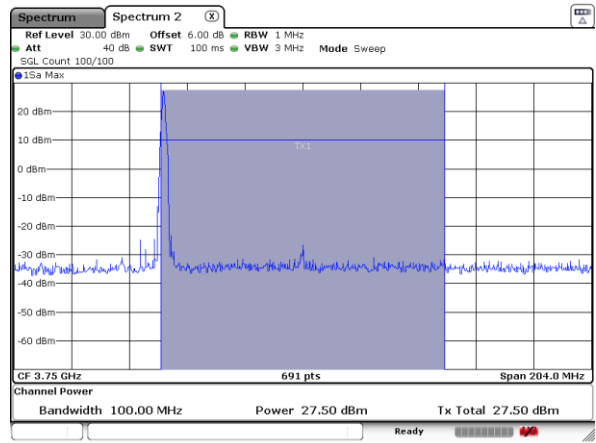
L-1RB-B-P



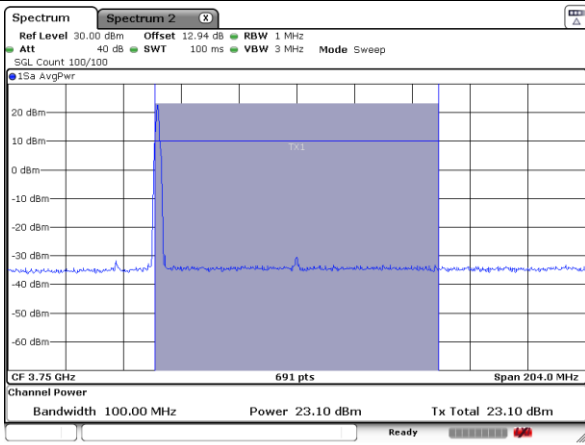
L-1RB-Q-A



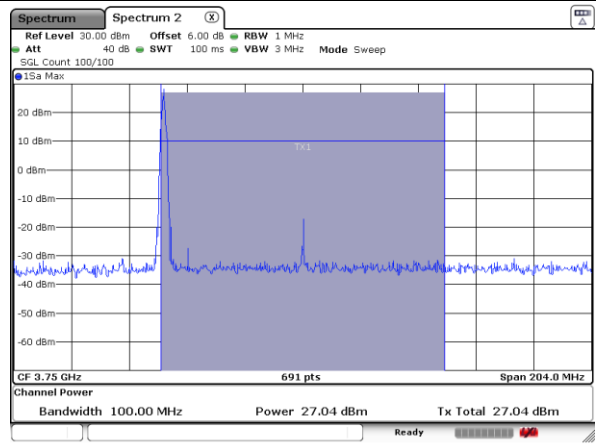
L-1RB-Q-P



L-1RB-16Q-A

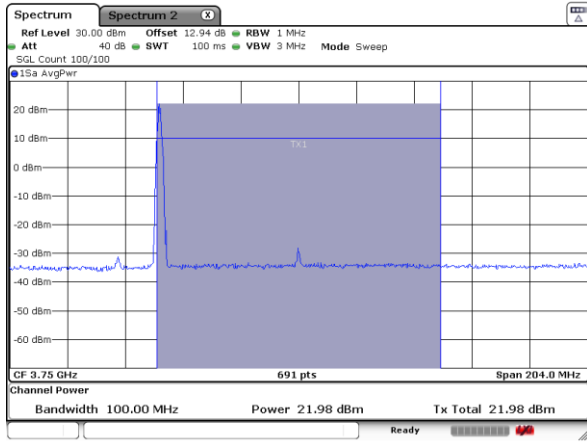


L-1RB-16Q-P



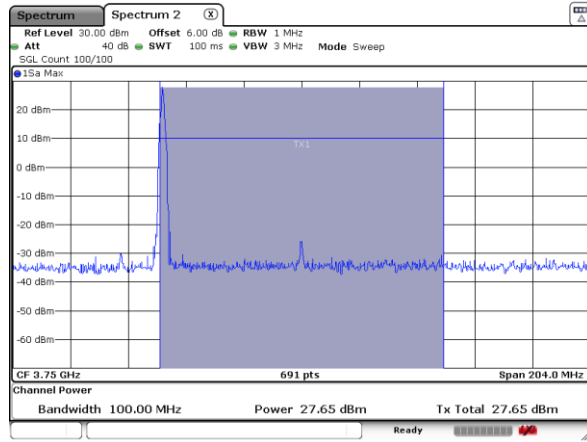


L-1RB-64Q-A



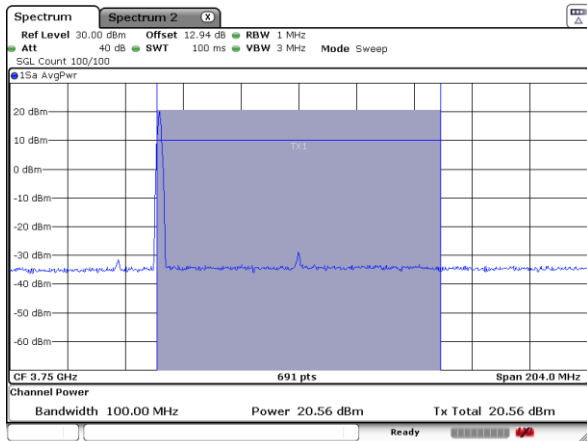
Date: 30.NOV.2020 18:41:06

L-1RB-64Q-P



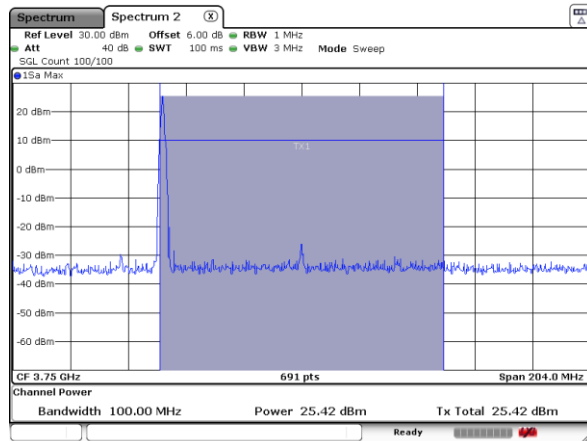
Date: 30.NOV.2020 18:41:13

L-1RB-256Q-A



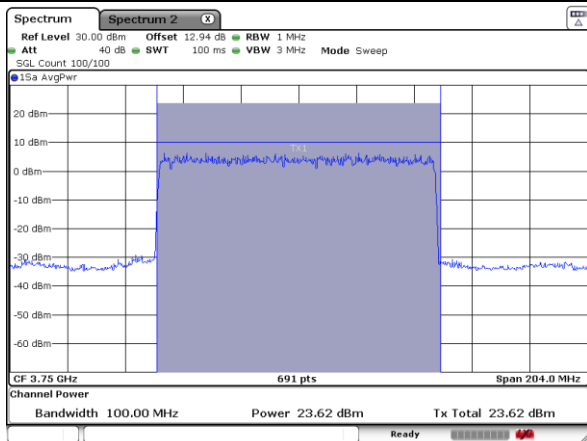
Date: 30.NOV.2020 18:42:39

L-1RB-256Q-P



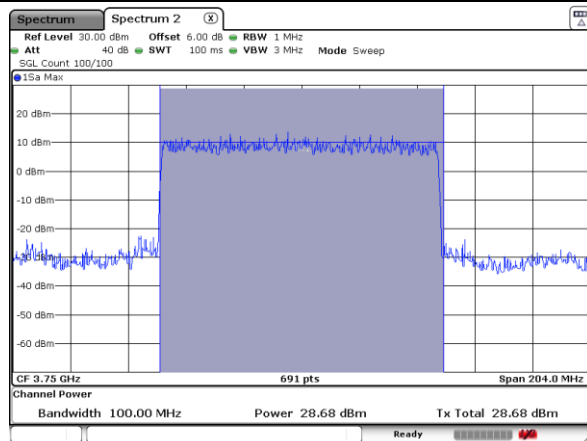
Date: 30.NOV.2020 18:42:13

L-FULLRB-B-A

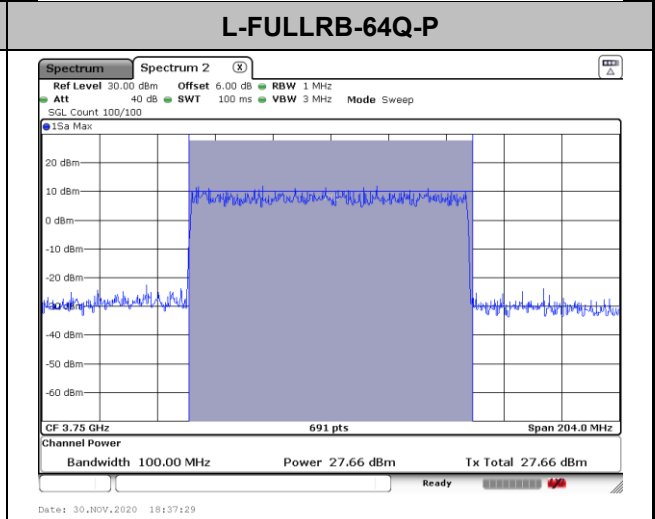
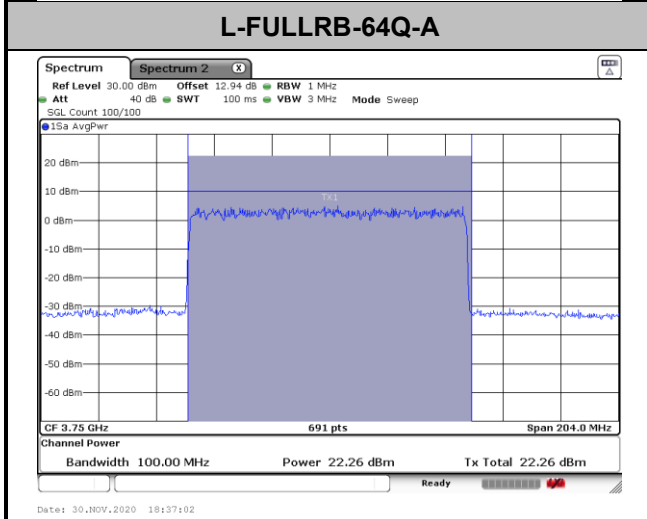
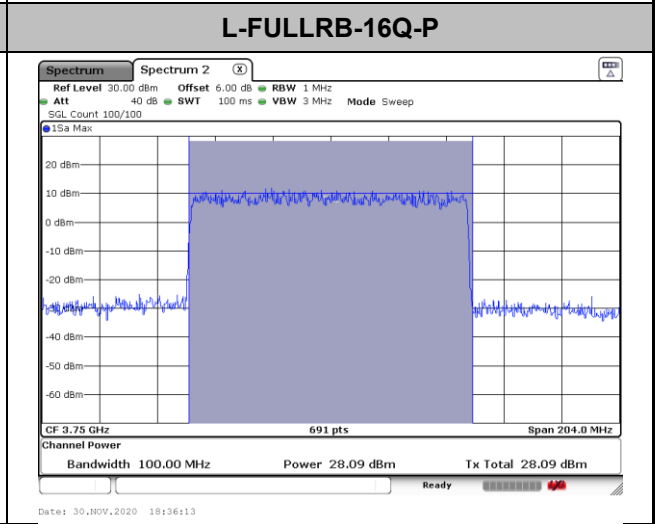
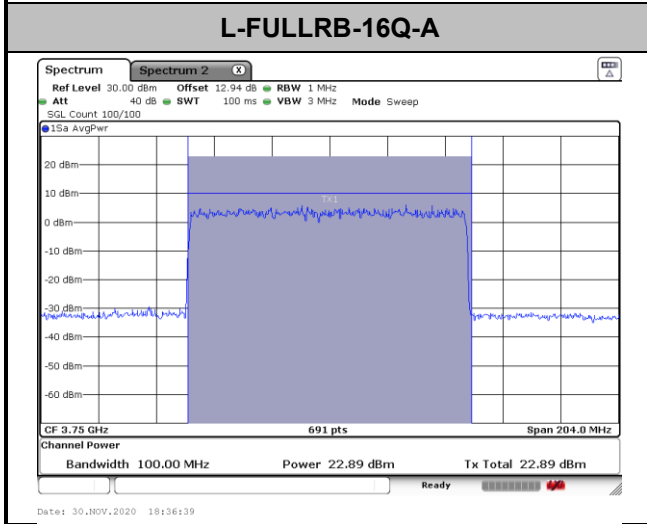
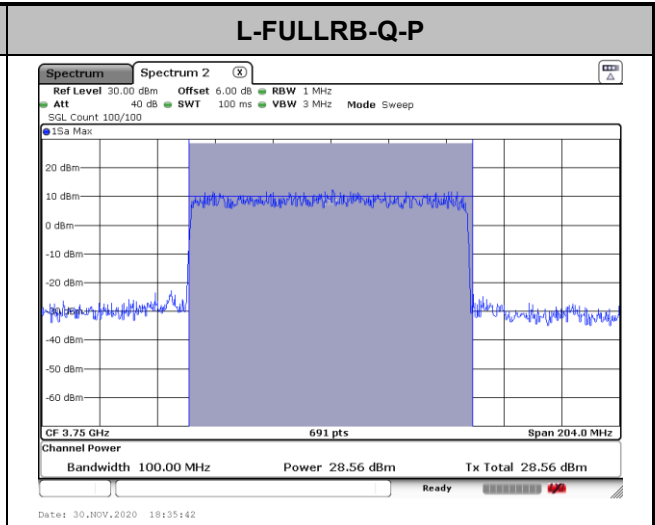
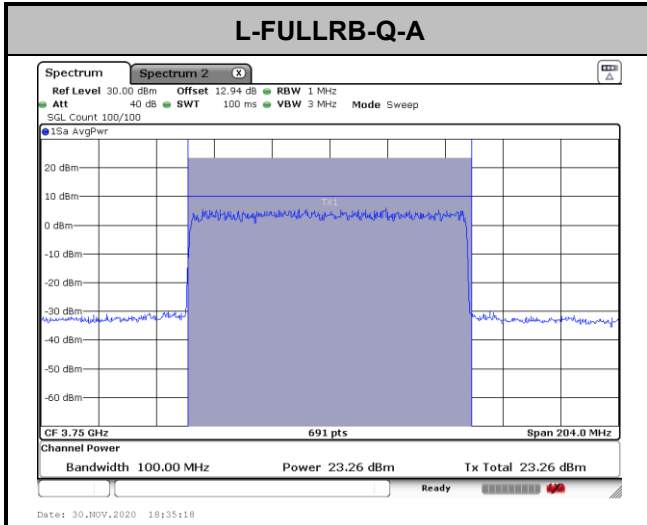


Date: 30.NOV.2020 18:34:14

L-FULLRB-B-P

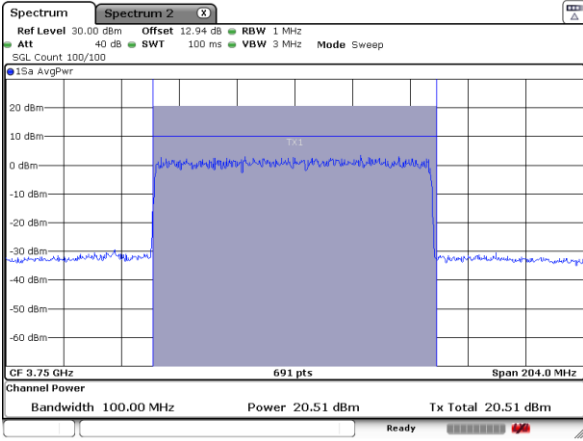


Date: 30.NOV.2020 18:34:51



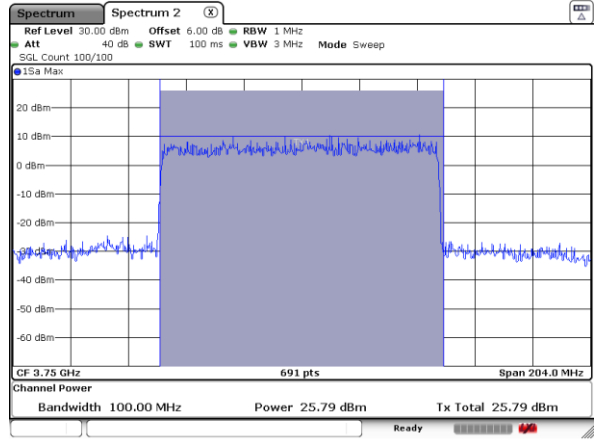


L-FULLRB-256Q-A



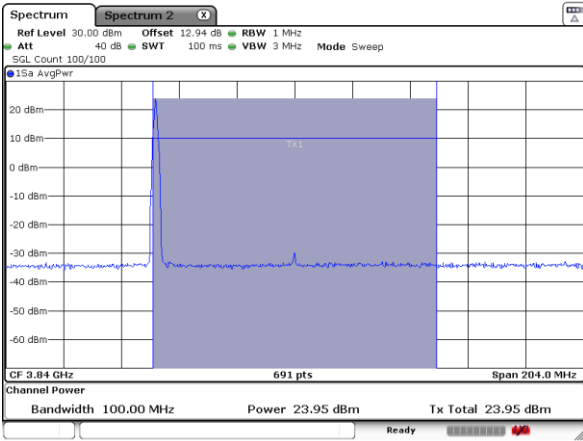
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L-FULLRB-256Q-P



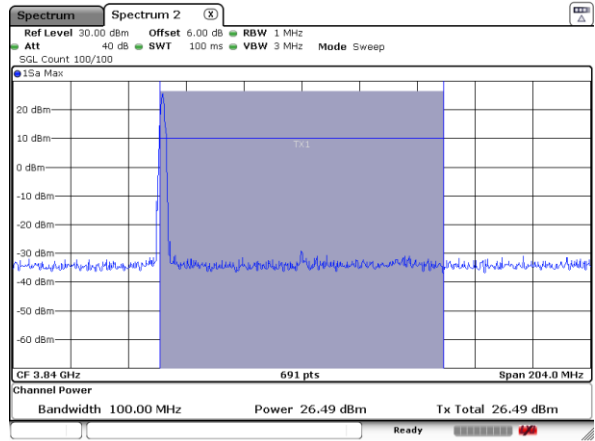
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M-1RB-B-A



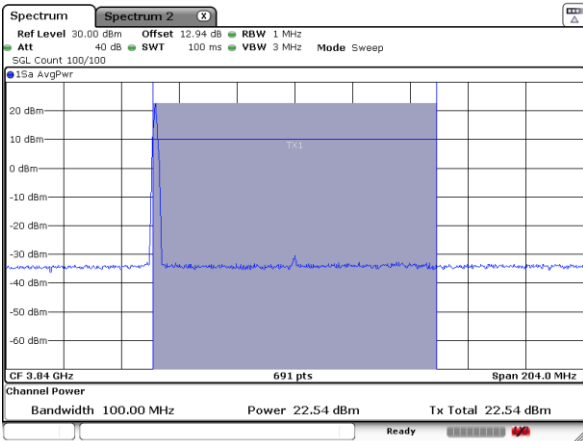
Date: 30.NOV.2020 18:48:26

M-1RB-B-P



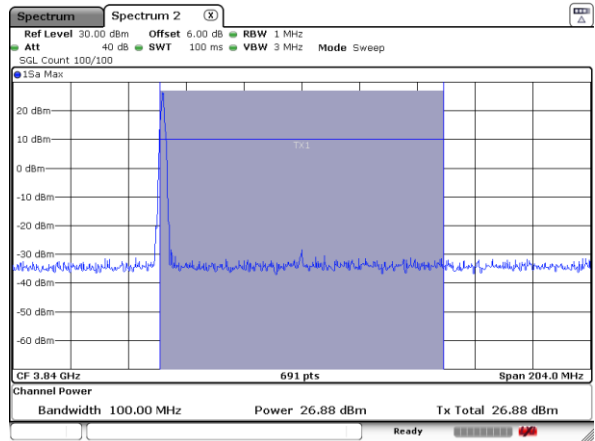
Date: 30.NOV.2020 18:47:47

M-1RB-Q-A

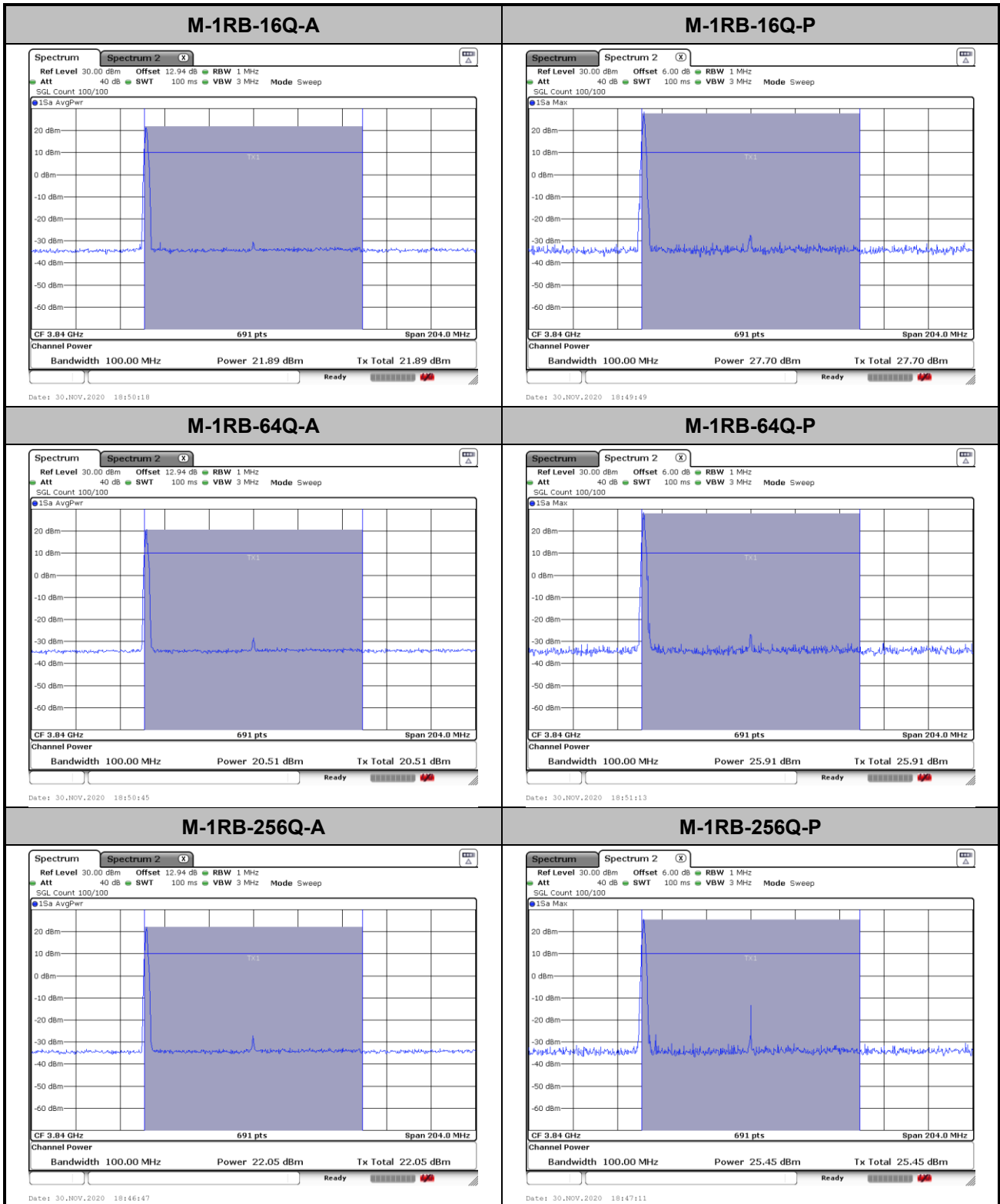


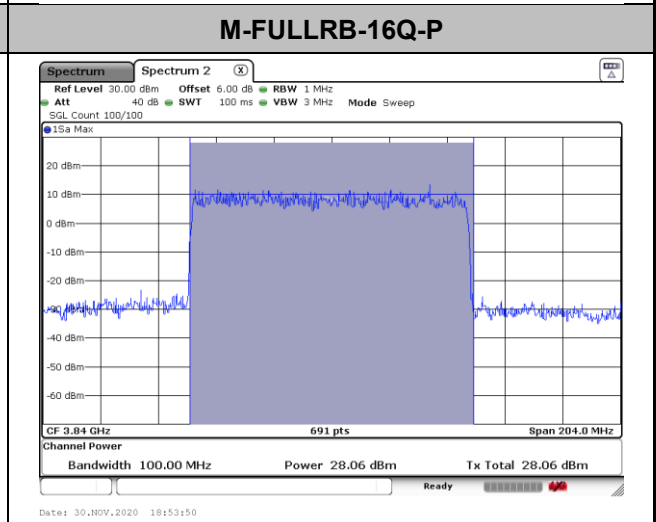
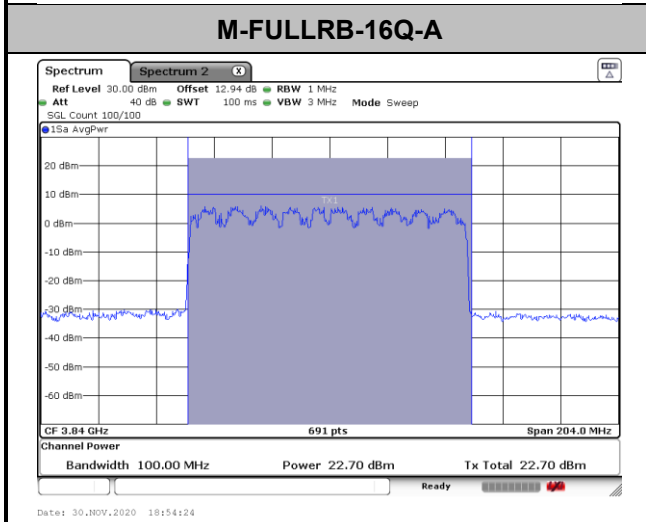
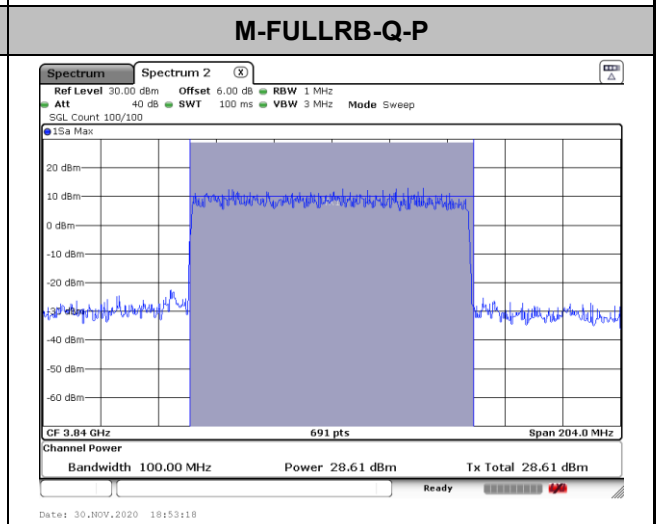
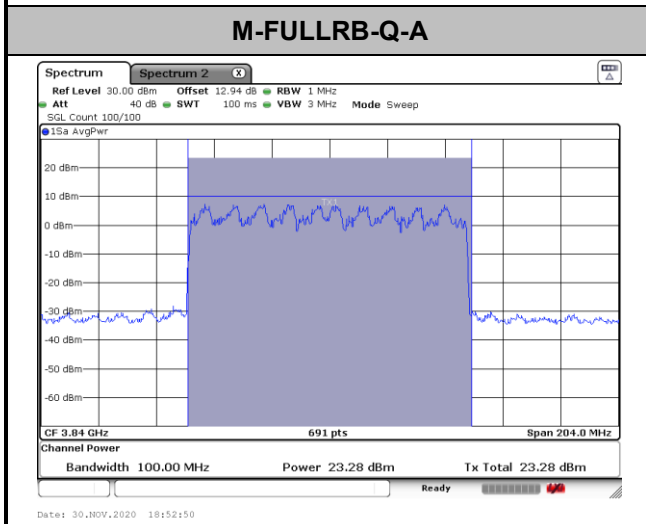
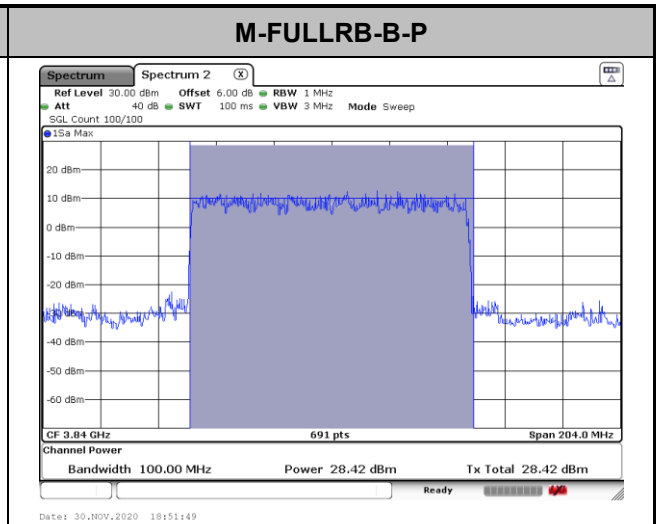
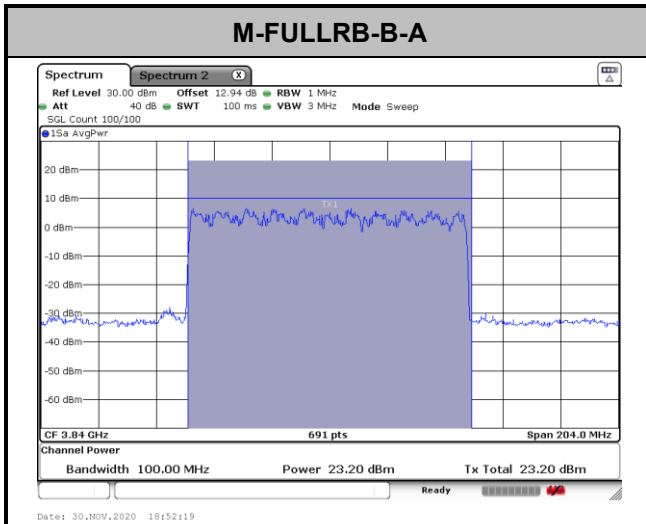
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M-1RB-Q-P



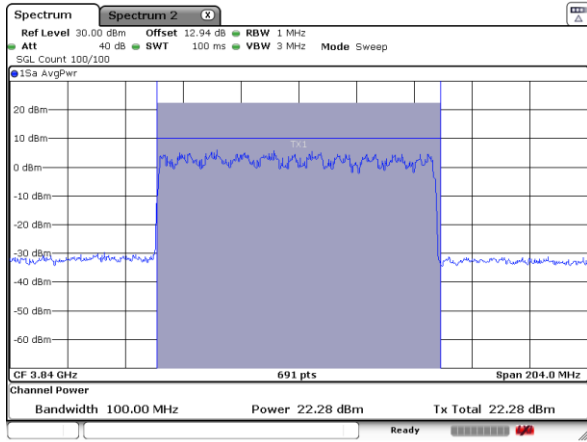
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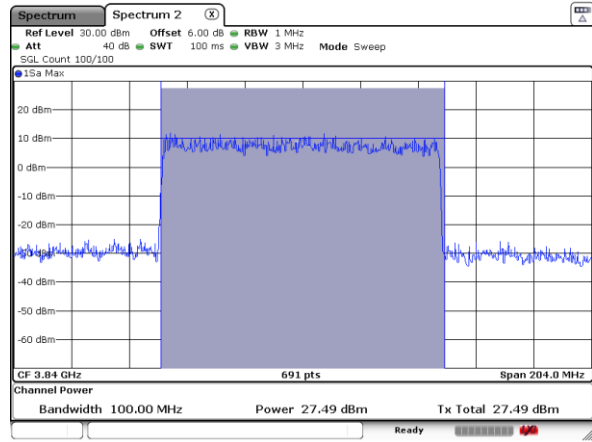


M-FULLRB-64Q-A



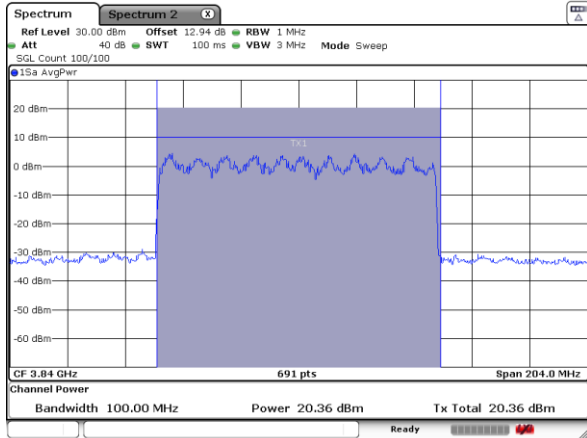
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M-FULLRB-64Q-P



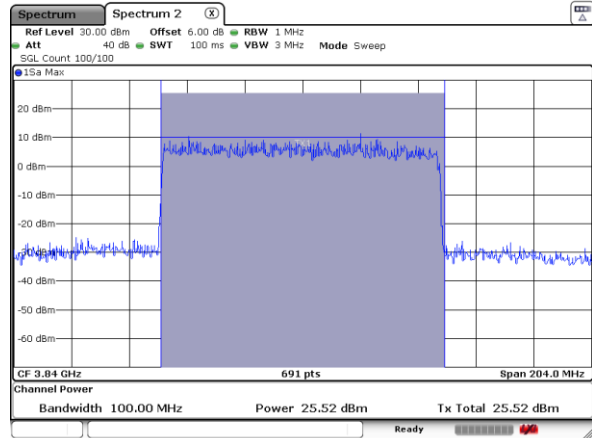
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M-FULLRB-256Q-A



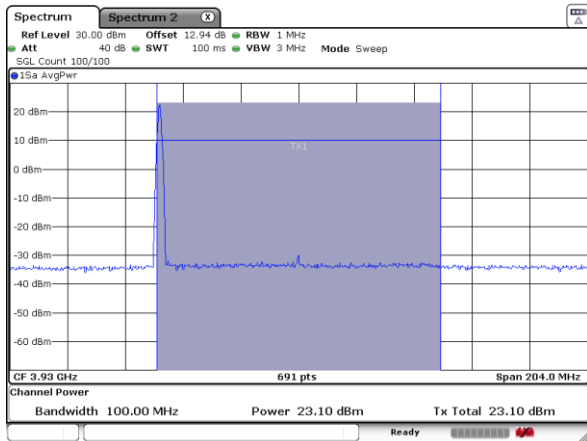
Date: 30.NOV.2020 18:45:38

M-FULLRB-256Q-P



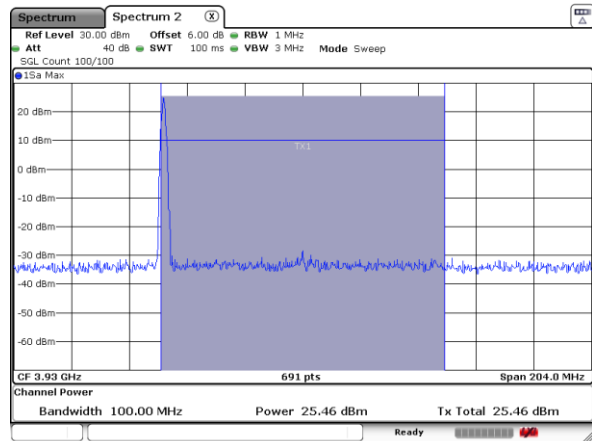
Date: 30.NOV.2020 18:46:09

H-1RB-B-A

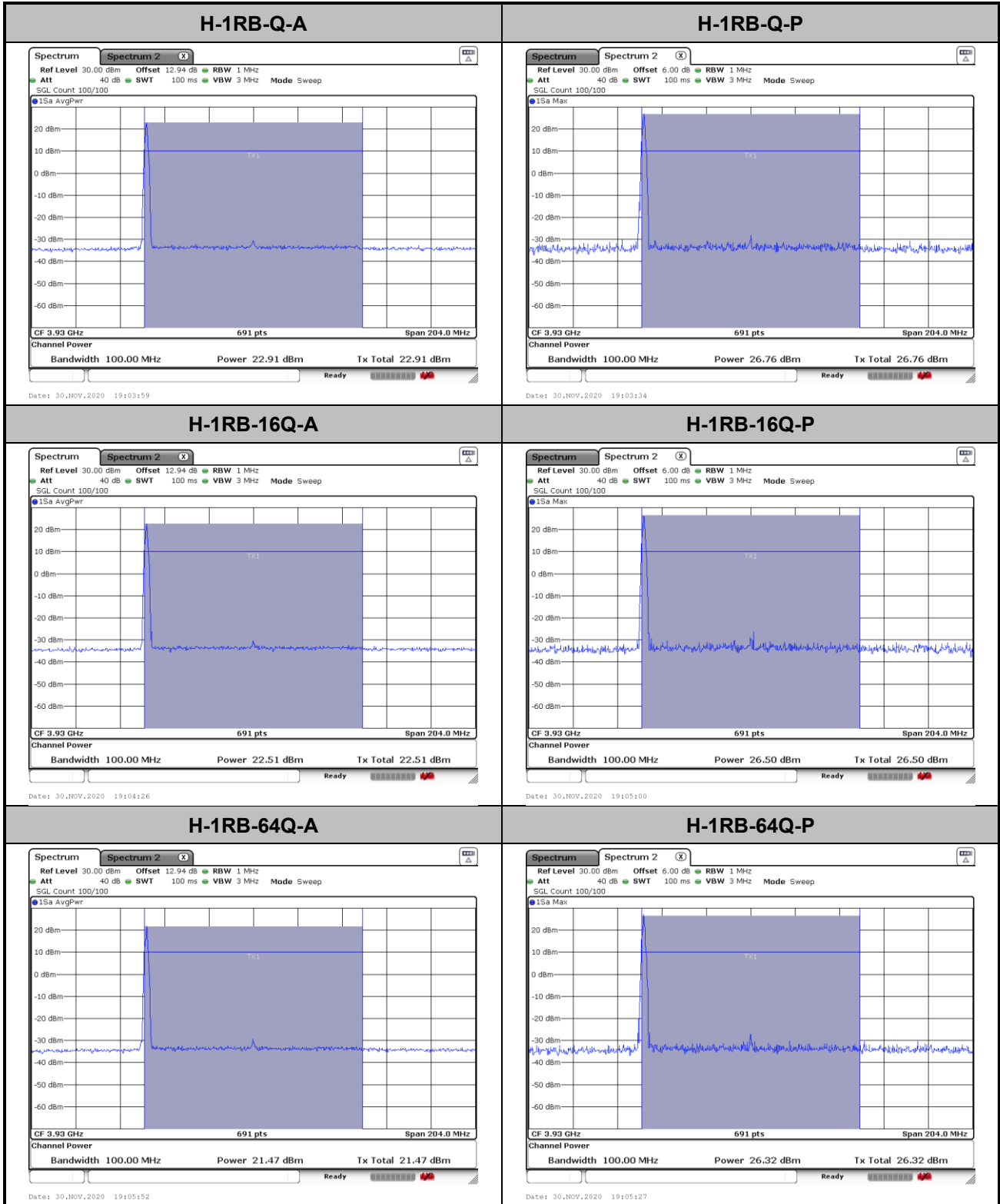


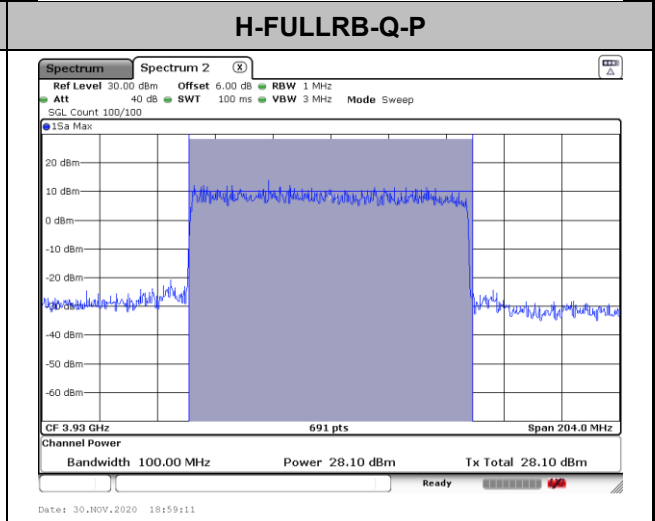
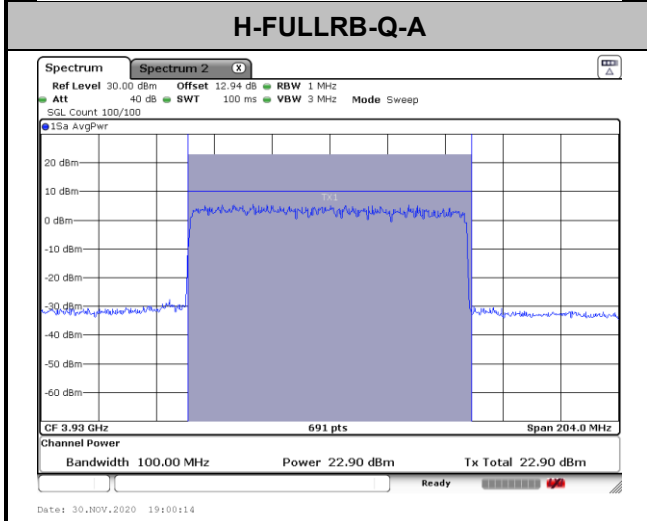
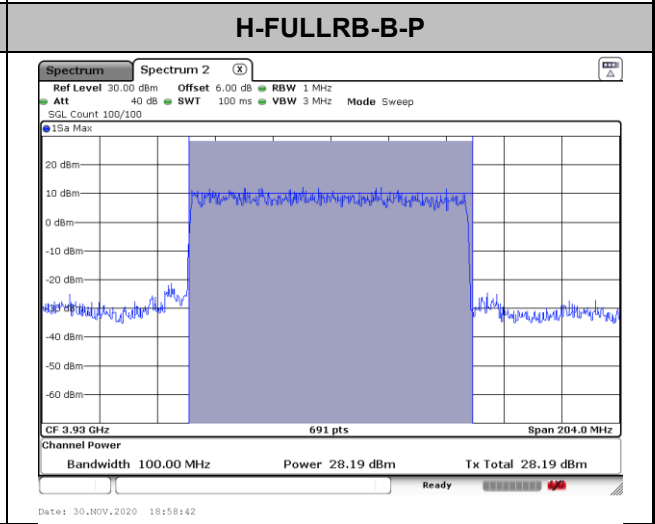
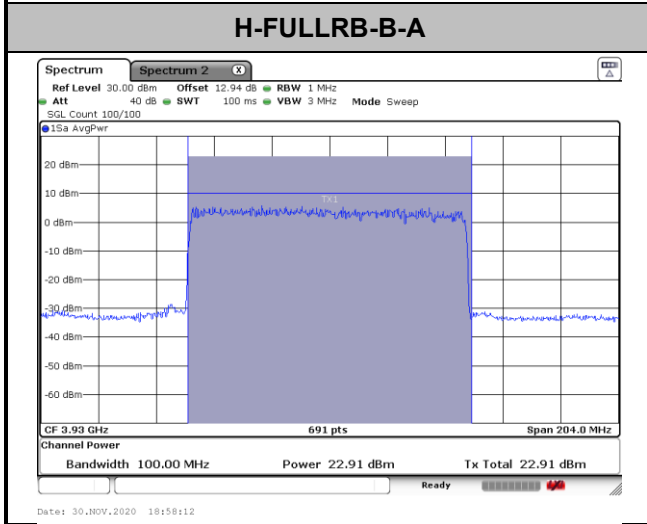
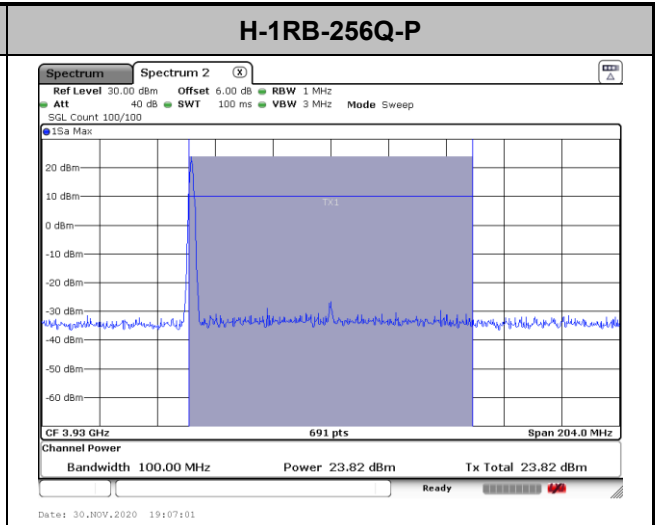
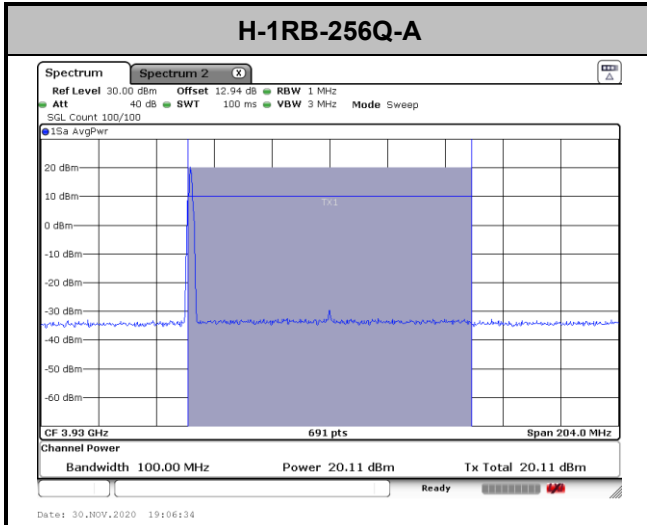
Date: 30.NOV.2020 19:02:30

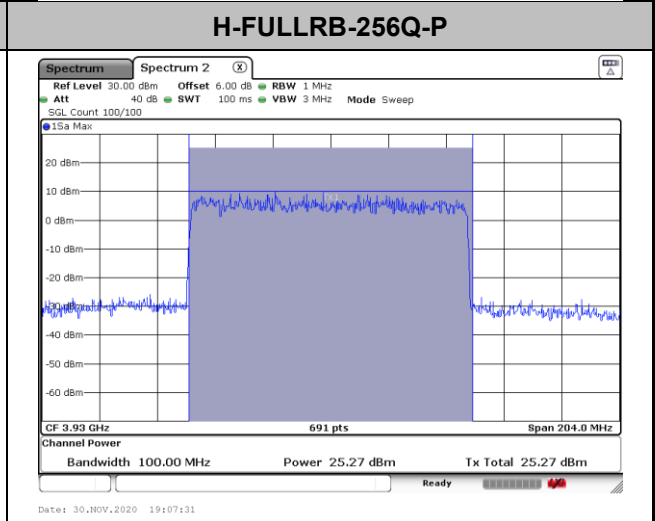
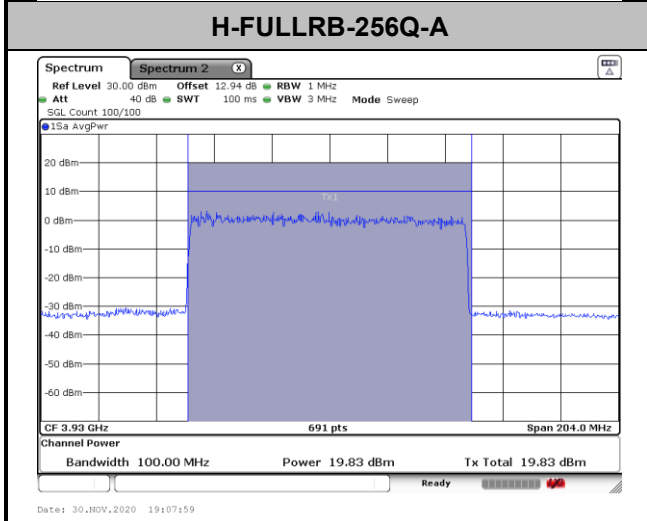
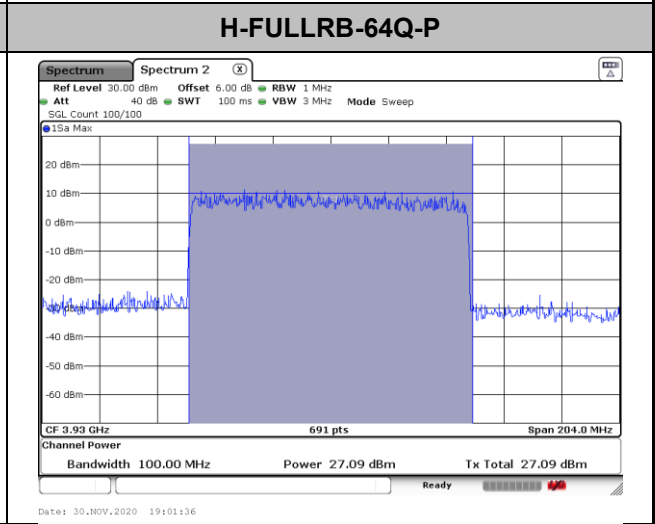
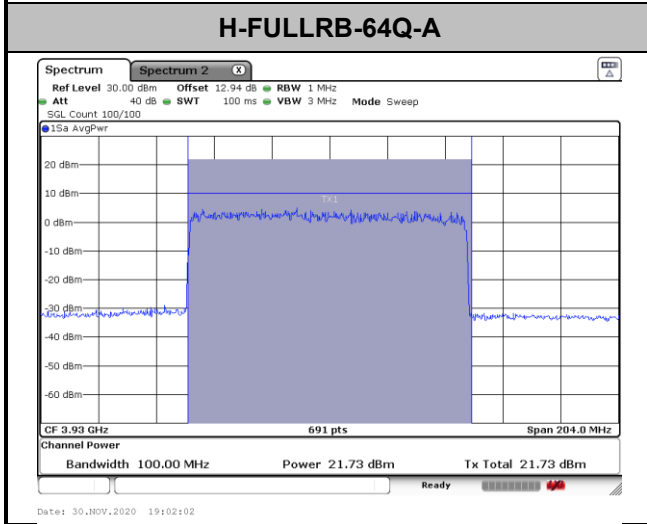
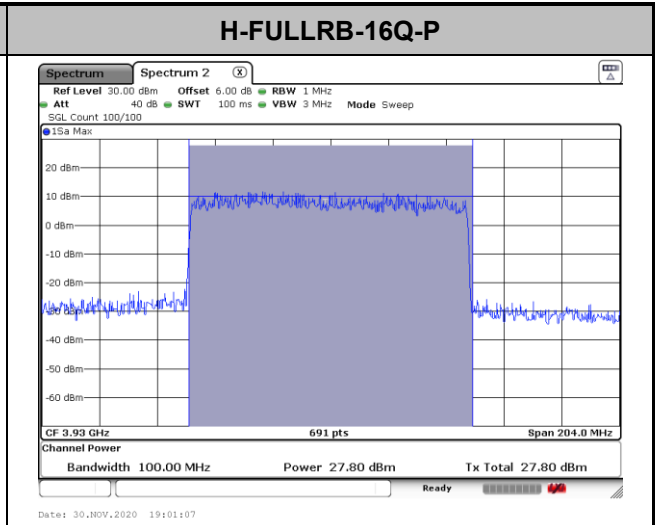
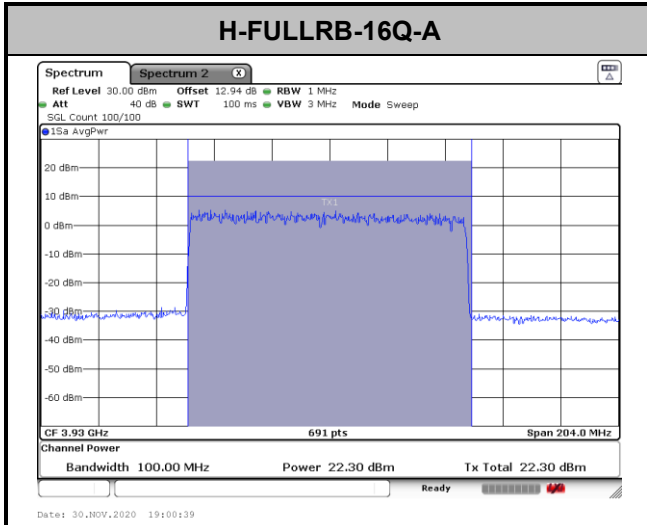
H-1RB-B-P



Date: 30.NOV.2020 19:03:04









26dB Bandwidth

Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	100MHz	100MHz						
Mod.	QPSK	16QAM						
Lowest CH	101.30	101.30						
Middle CH	101.50	101.10						
Highest CH	101.30	101.50						



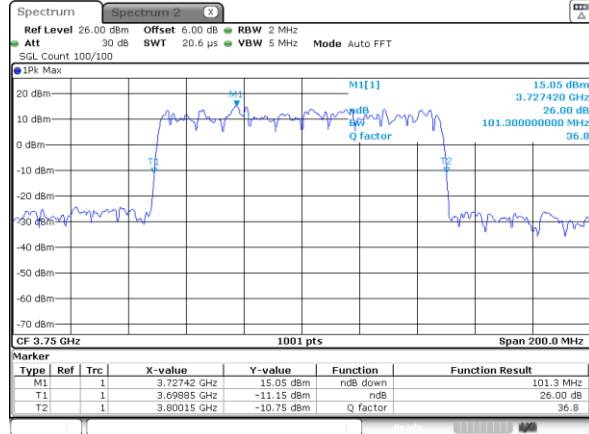
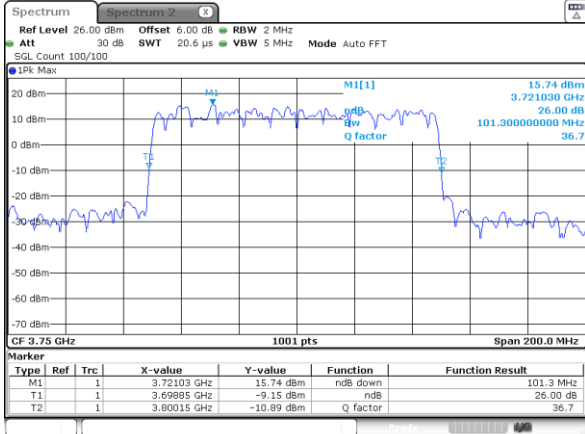
FR1 n77 / 100MHz

QPSK

16QAM

Lowest Channel

Lowest Channel

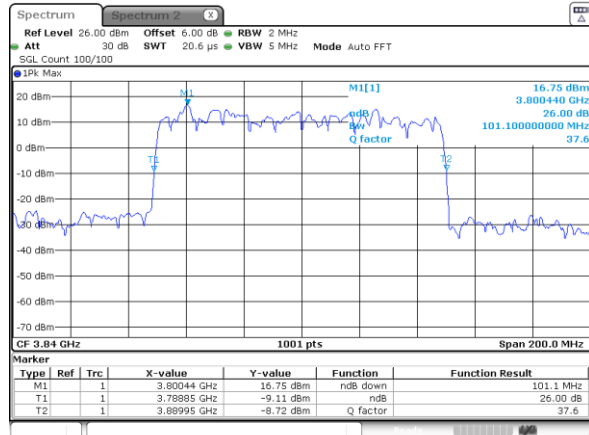
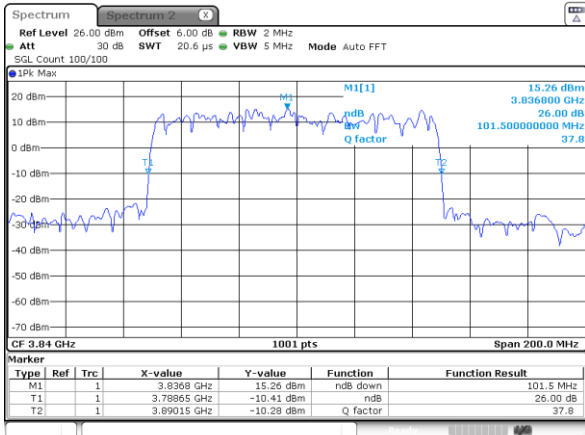


Date: 30.NOV.2020 15:01:40

Date: 30.NOV.2020 15:02:03

Middle Channel

Middle Channel

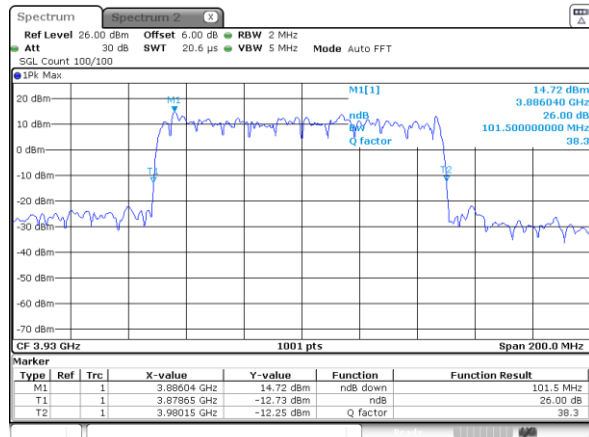
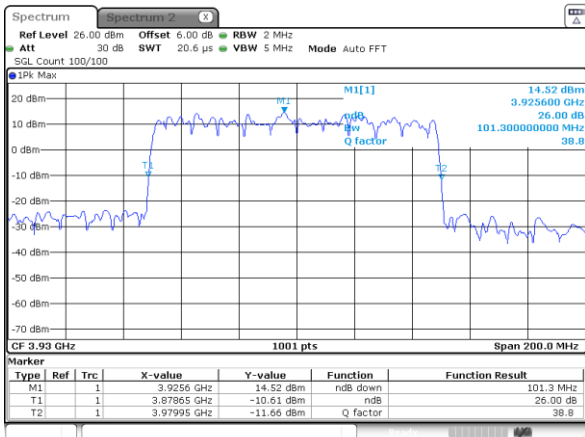


Date: 30.NOV.2020 15:12:08

Date: 30.NOV.2020 15:12:30

Highest Channel

Highest Channel



Date: 30.NOV.2020 15:14:29

Date: 30.NOV.2020 15:14:52



Occupied Bandwidth

Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM							
BW	100MHz	100MHz						
Mod.	QPSK	16QAM						
Lowest CH	96.70	96.90						
Middle CH	96.30	96.50						
Highest CH	96.50	96.30						



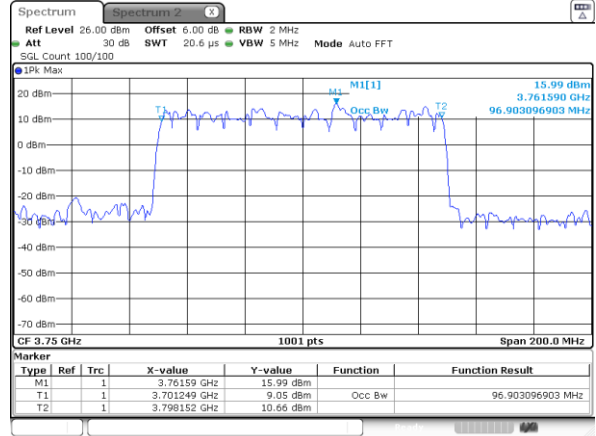
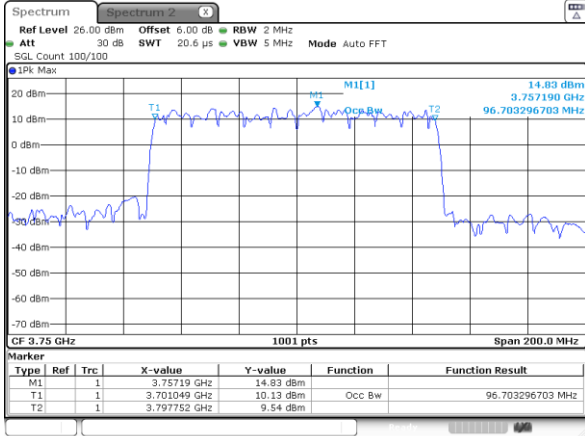
FR1 n77 / 100MHz

QPSK

16QAM

Lowest Channel

Lowest Channel

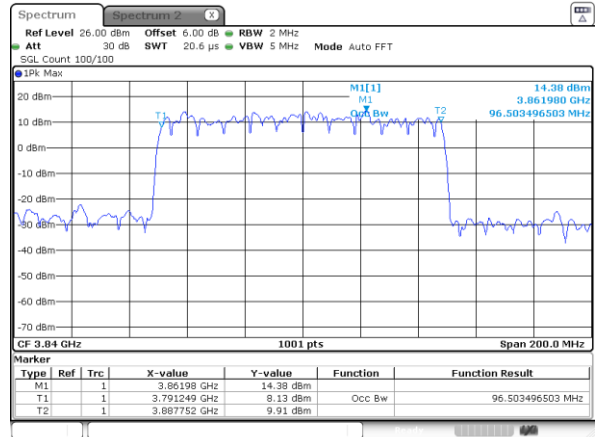
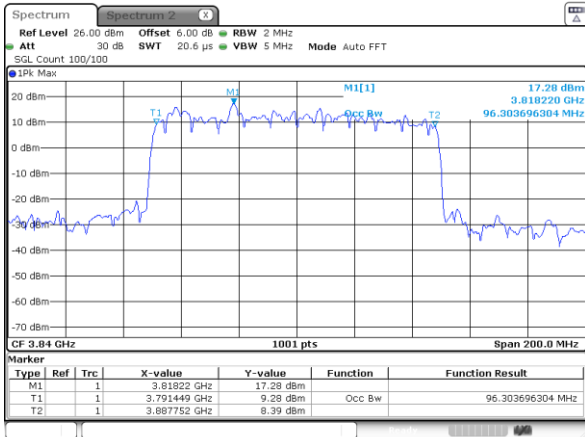


Date: 30.NOV.2020 15:01:30

Date: 30.NOV.2020 15:01:53

Middle Channel

Middle Channel

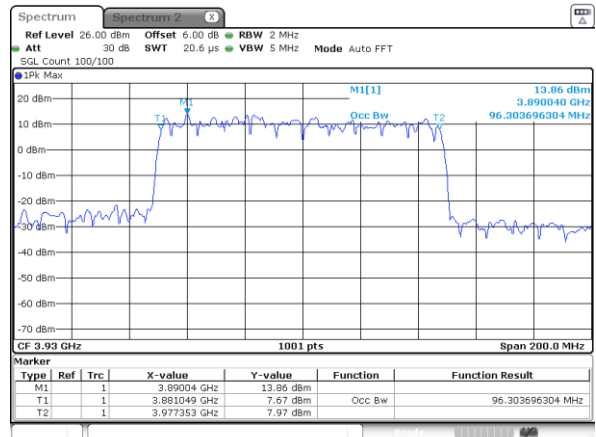
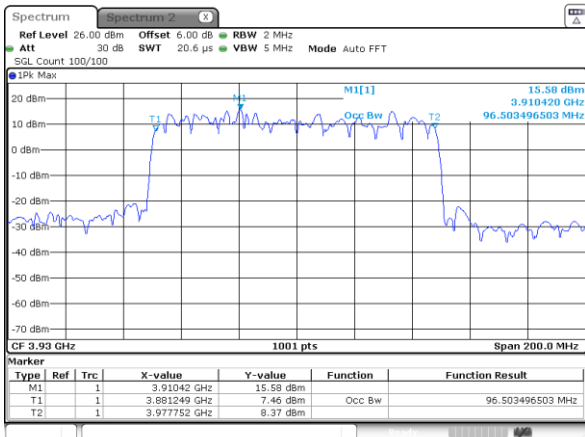


Date: 30.NOV.2020 15:11:58

Date: 30.NOV.2020 15:12:20

Highest Channel

Highest Channel

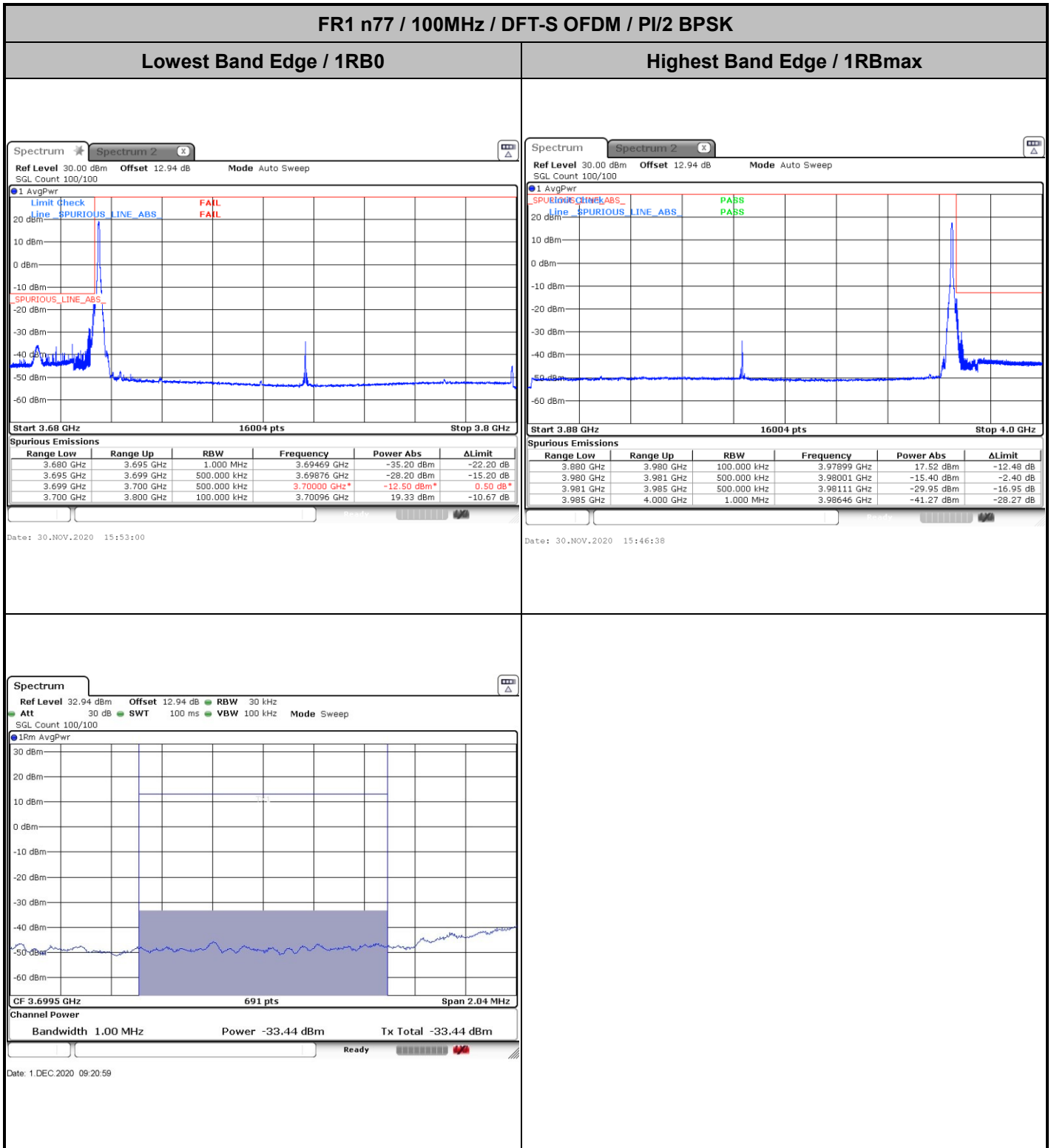


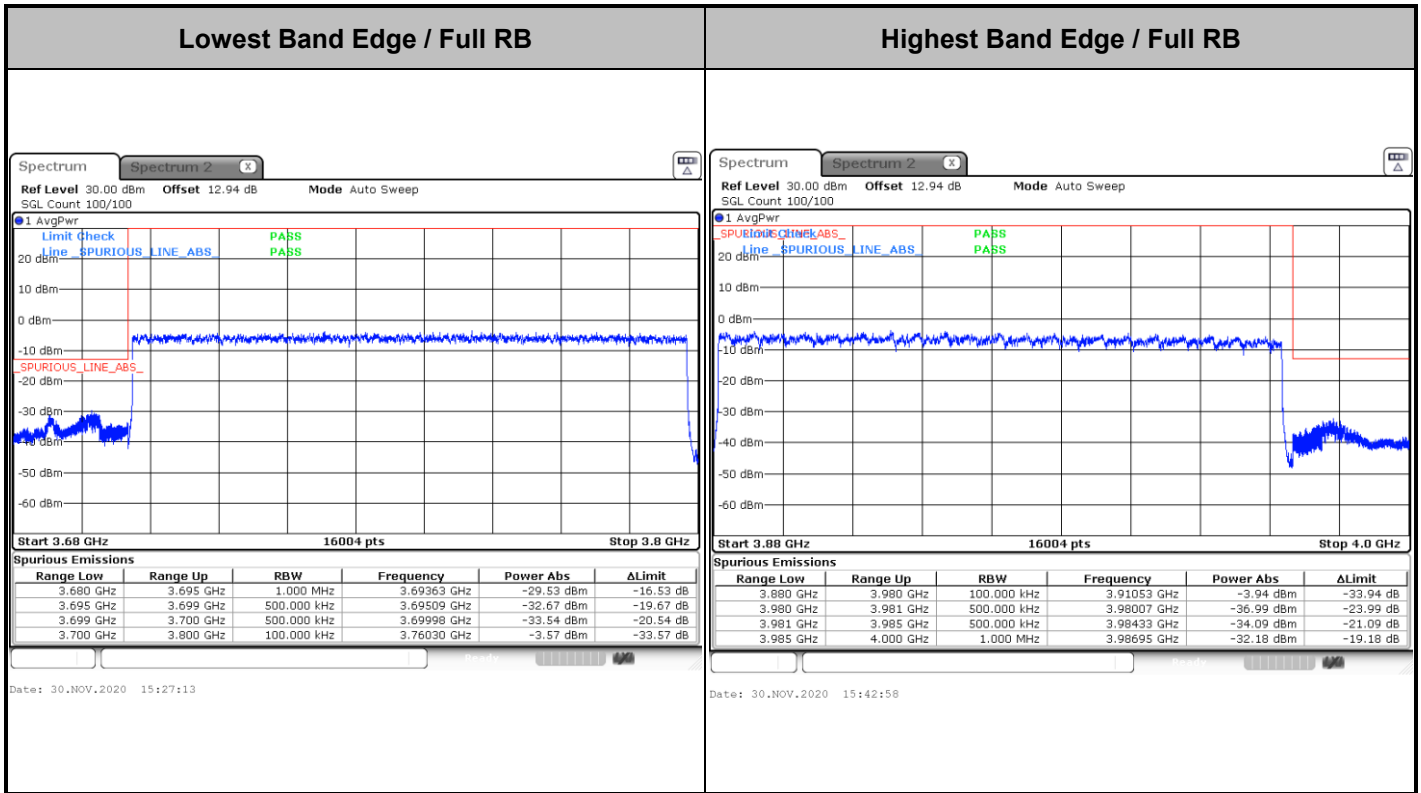
Date: 30.NOV.2020 15:14:18

Date: 30.NOV.2020 15:14:43



Conducted Band Edge



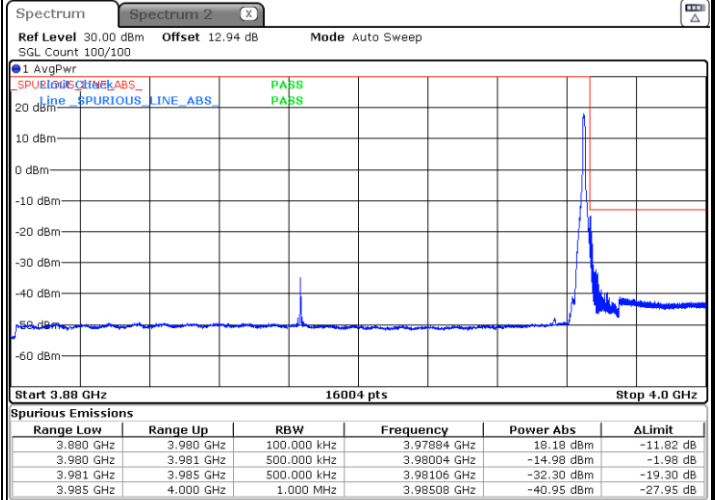
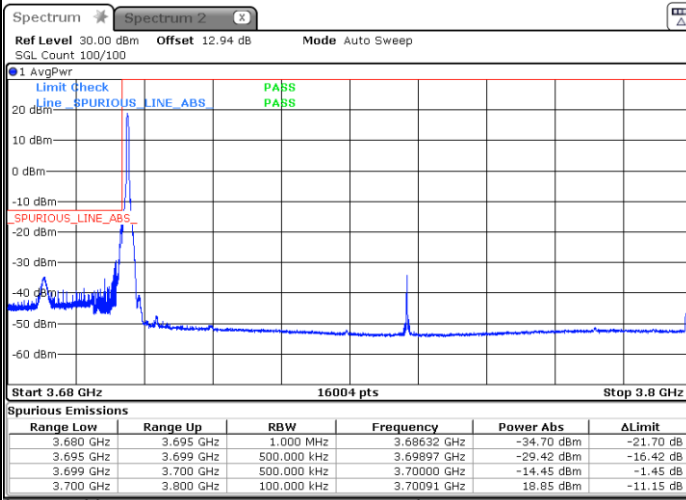




FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

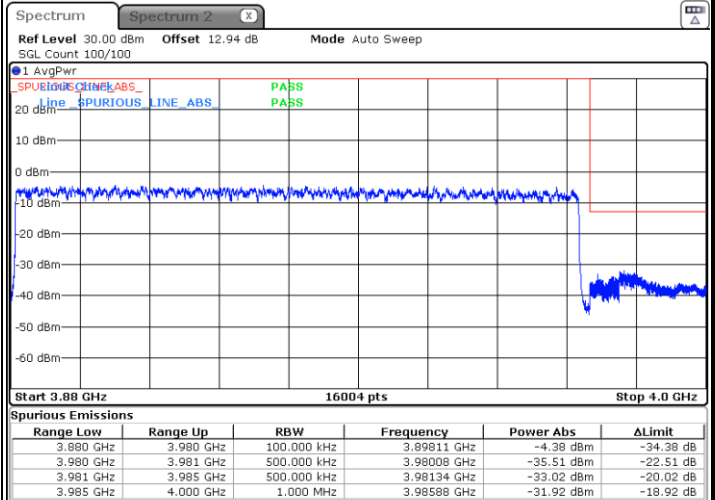
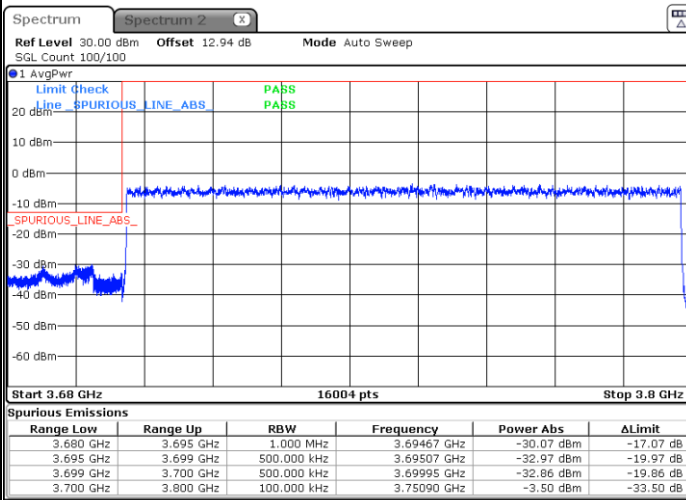


Date: 30.NOV.2020 15:33:38

Date: 30.NOV.2020 15:47:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.NOV.2020 15:27:53

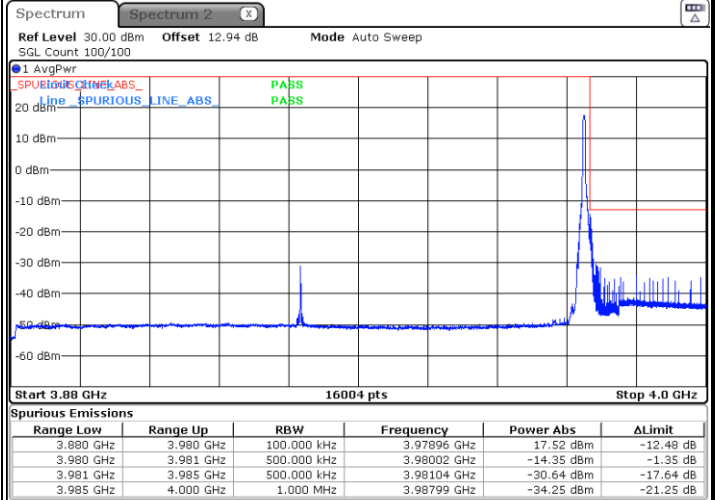
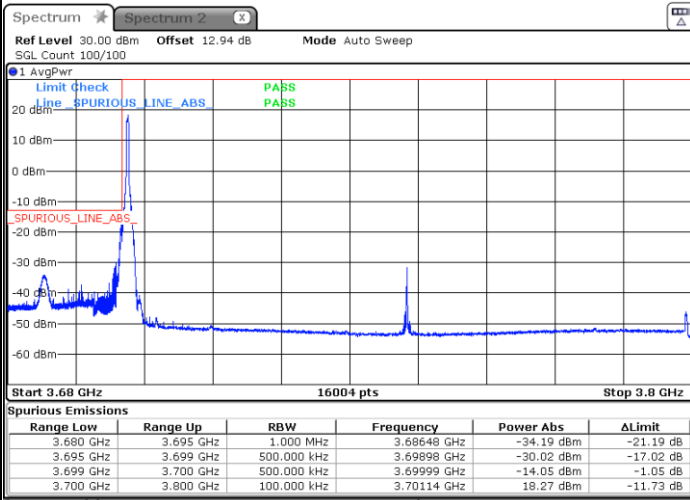
Date: 30.NOV.2020 15:43:35



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

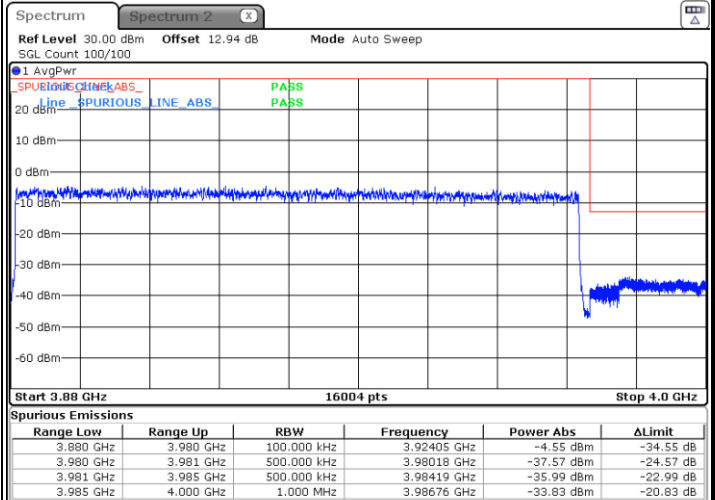
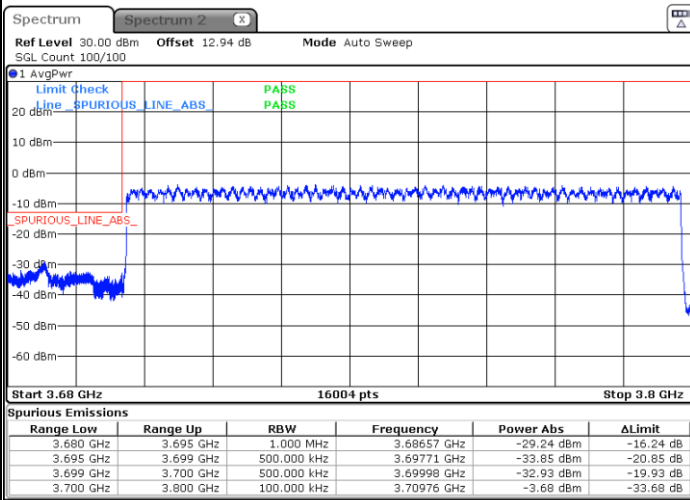


Date: 30.NOV.2020 15:38:15

Date: 30.NOV.2020 15:47:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.NOV.2020 15:28:50

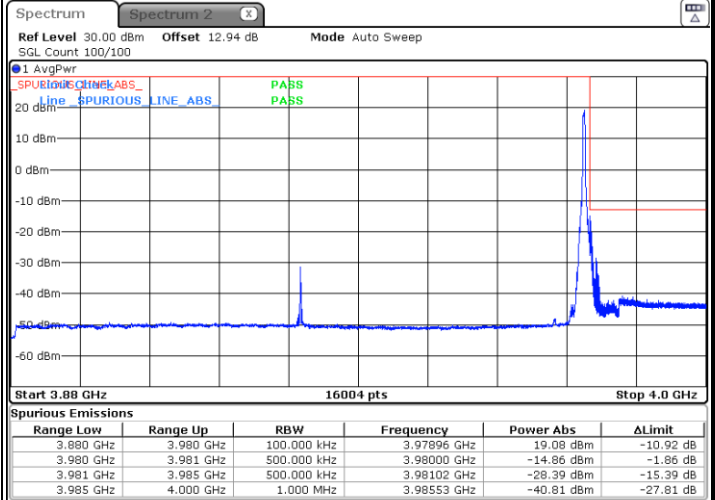
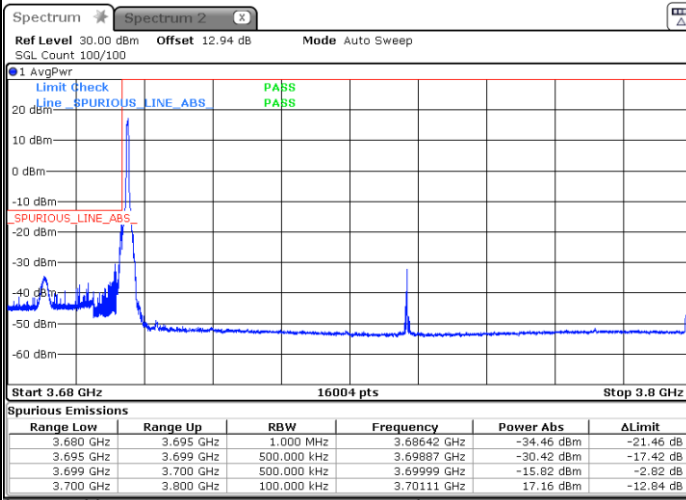
Date: 30.NOV.2020 15:44:28



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

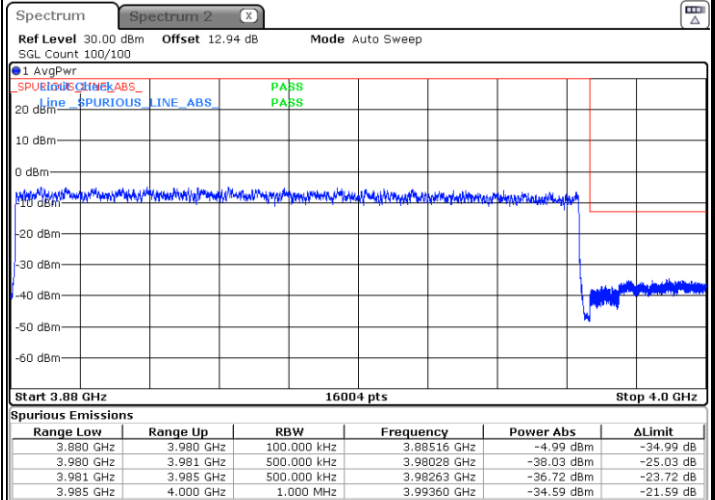
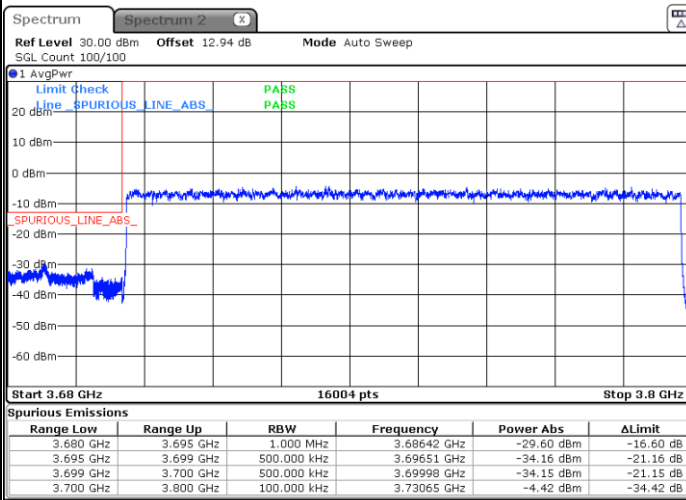


Date: 30.NOV.2020 15:39:39

Date: 30.NOV.2020 15:48:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.NOV.2020 15:29:43

Date: 30.NOV.2020 15:45:12