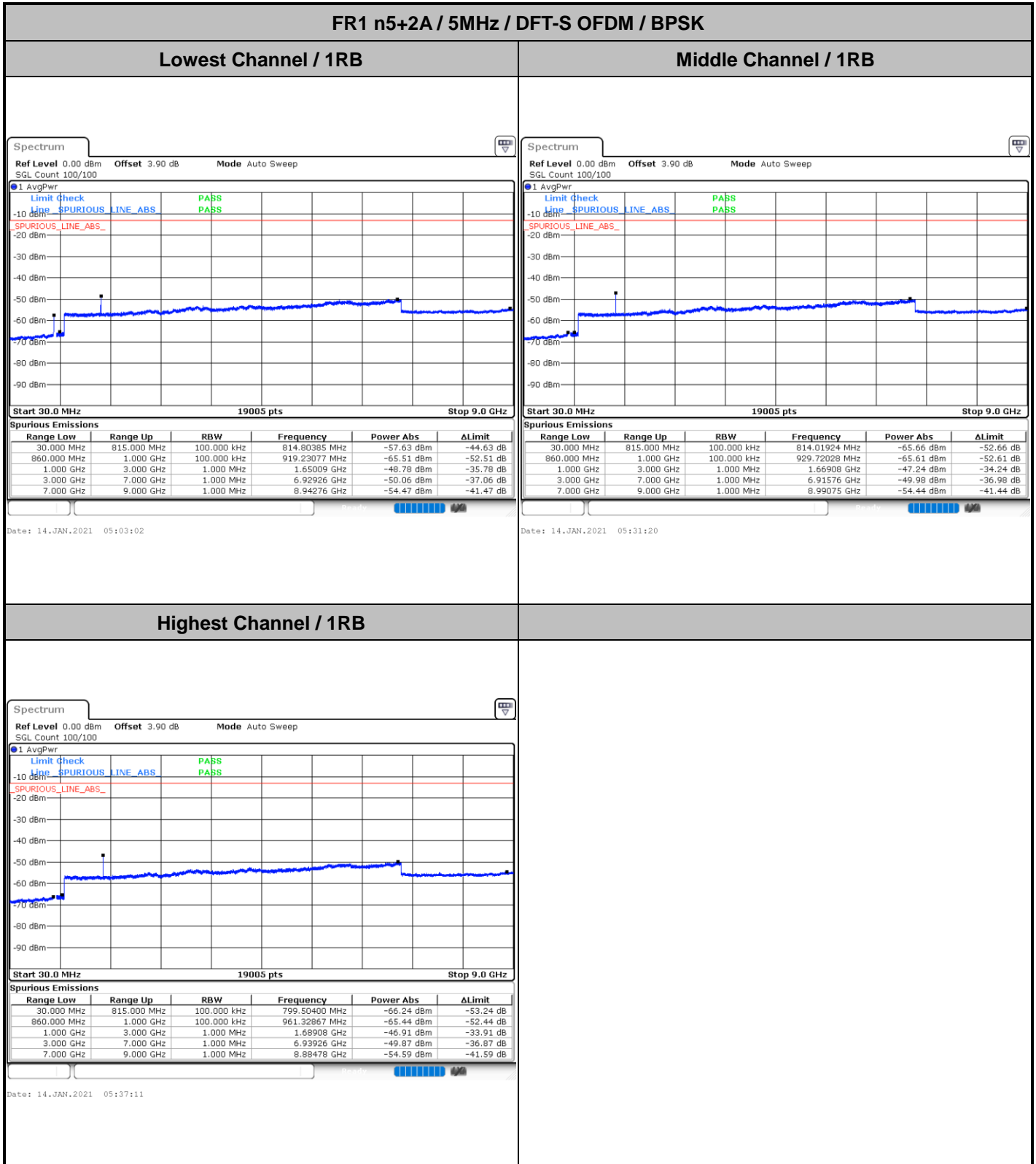




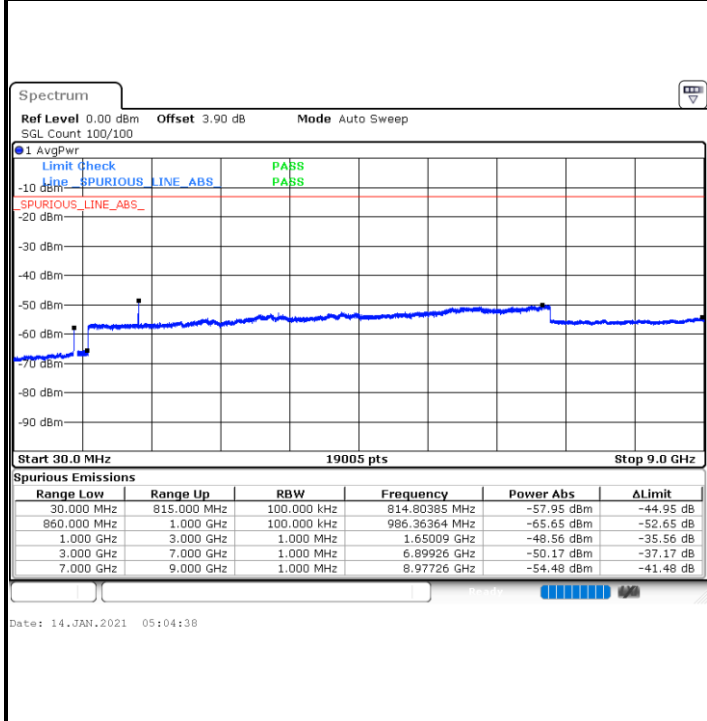
Conducted Spurious Emission



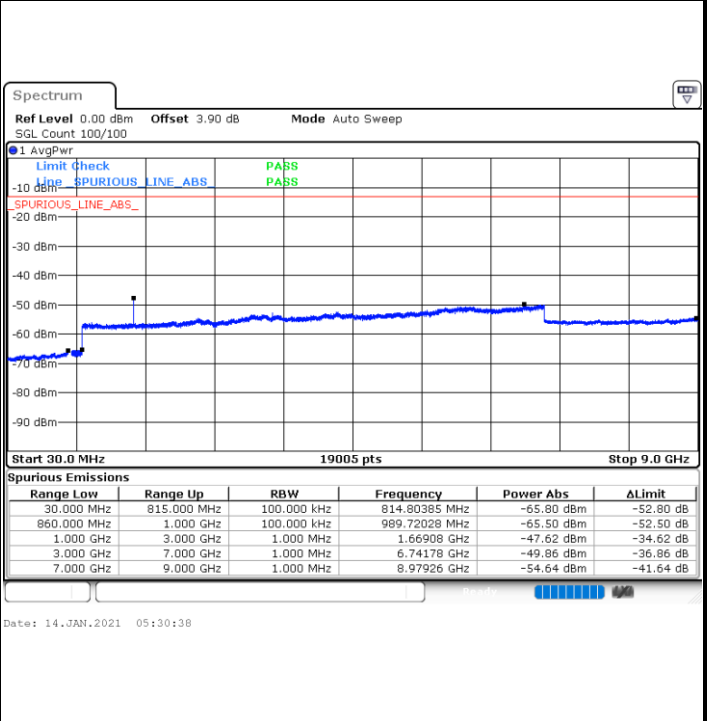


FR1 n5+2A / 5MHz / DFT-S OFDM / QPSK

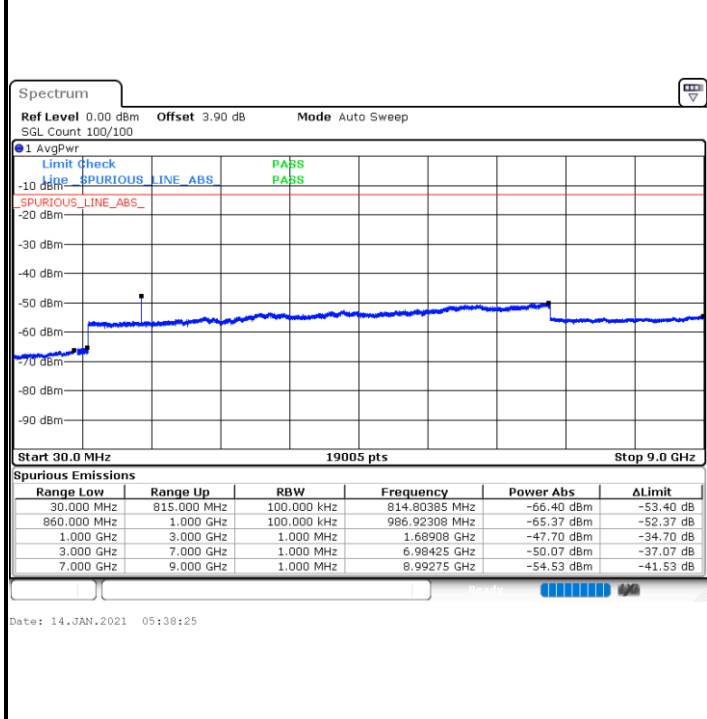
Lowest Channel / 1RB



Middle Channel / 1RB



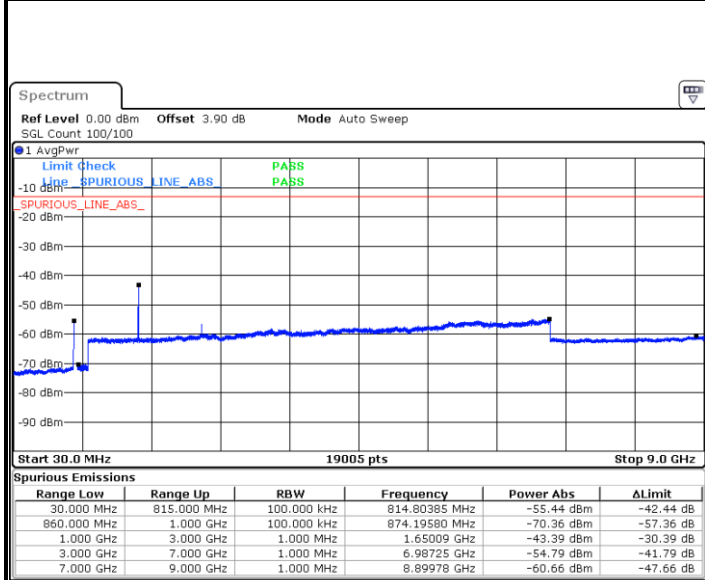
Highest Channel / 1RB





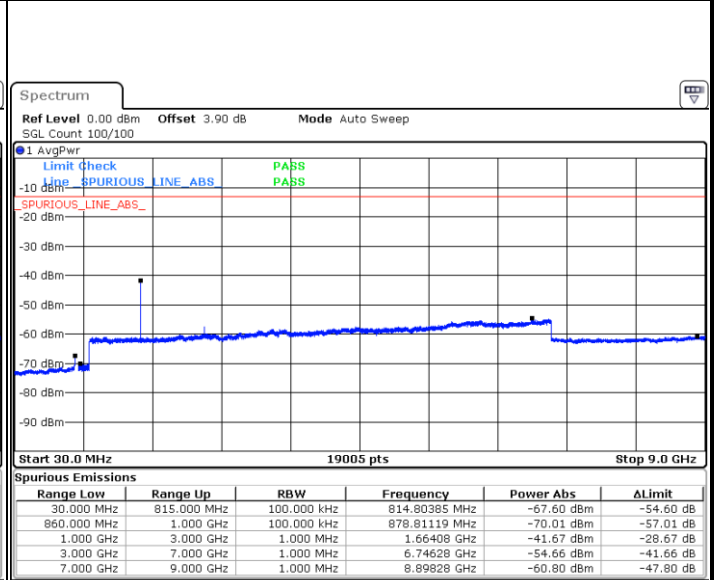
FR1 n5+2A / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



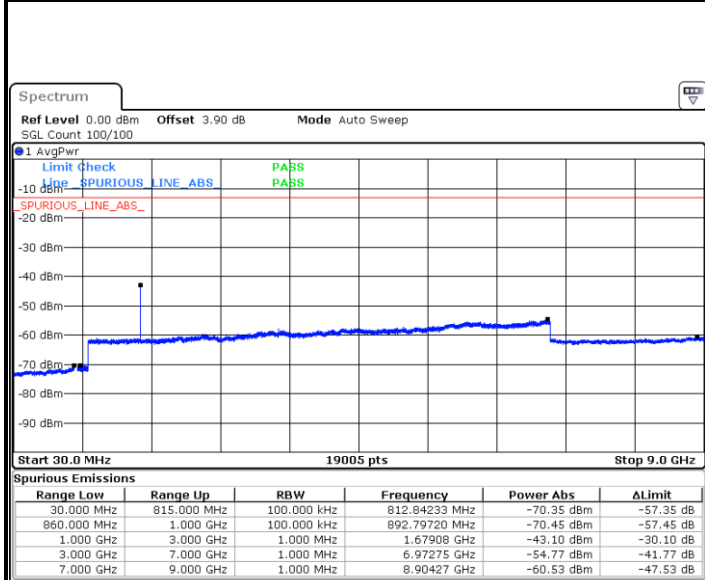
Date: 14.JAN.2021 03:48:24

Middle Channel / 1RB



Date: 14.JAN.2021 04:10:01

Highest Channel / 1RB



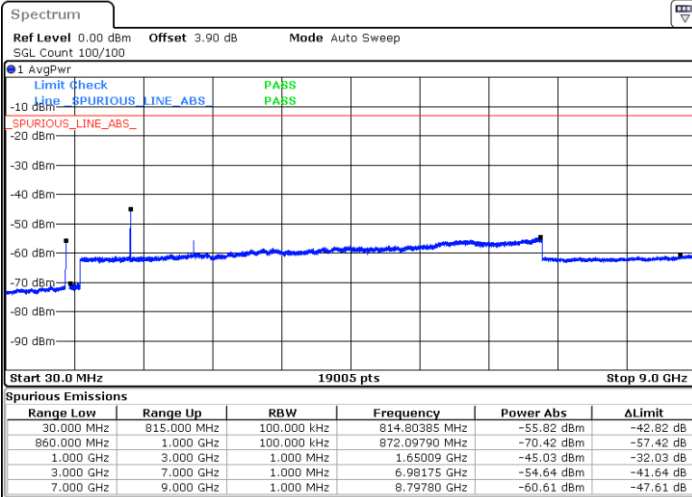
Date: 14.JAN.2021 04:22:32



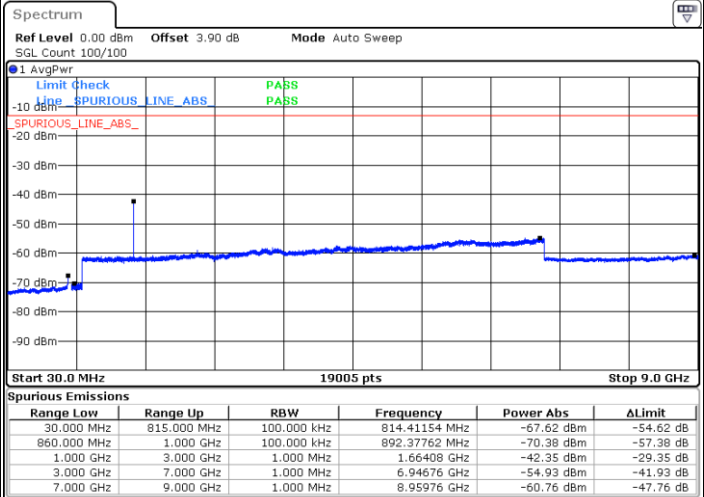
FR1 n5+2A / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

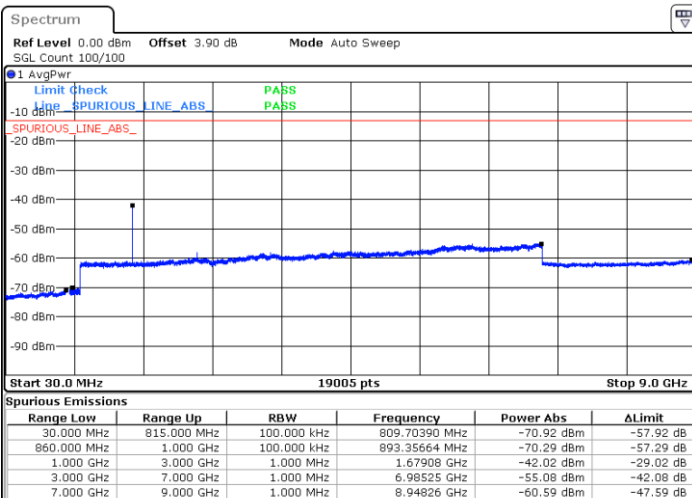


Date: 14.JAN.2021 04:06:13



Date: 14.JAN.2021 04:09:05

Highest Channel / 1RB

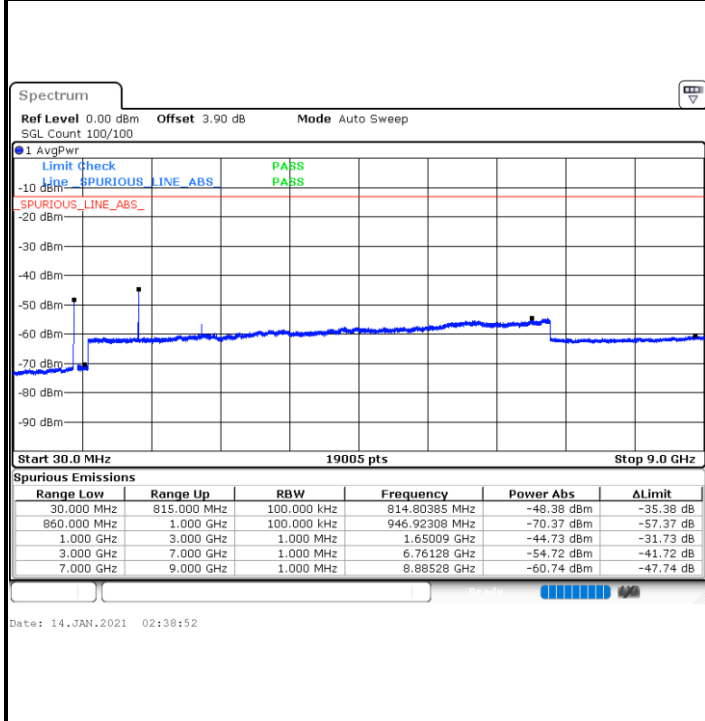


Date: 14.JAN.2021 04:23:51

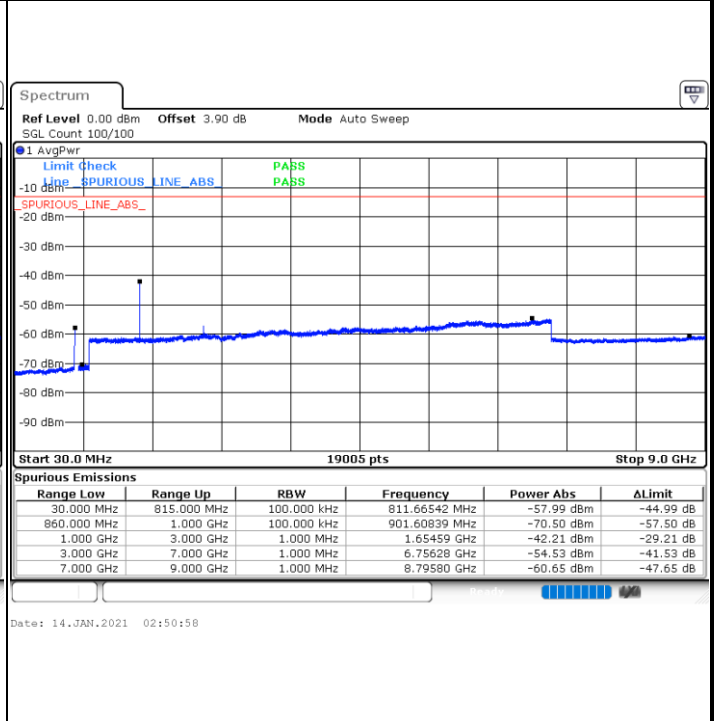


FR1 n5+2A / 20MHz / DFT-S OFDM / BPSK

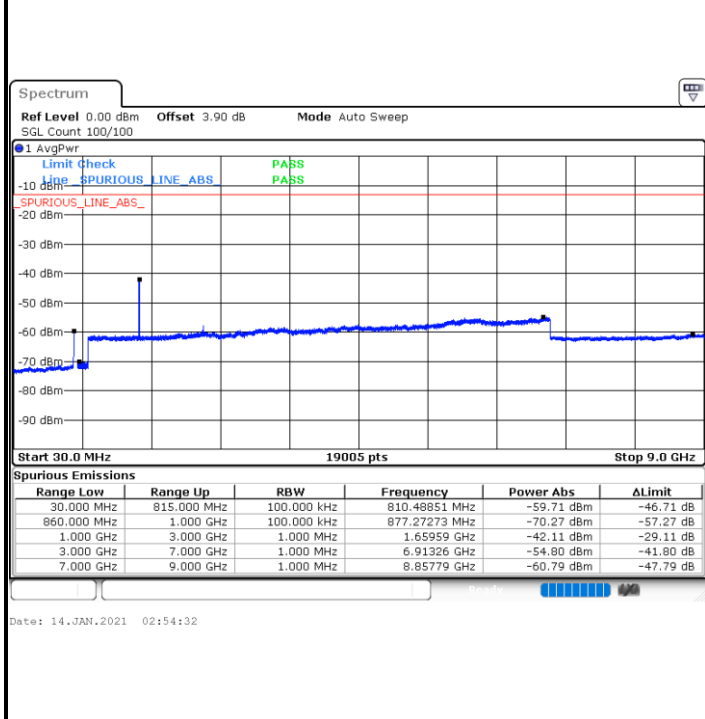
Lowest Channel / 1RB



Middle Channel / 1RB



Highest Channel / 1RB

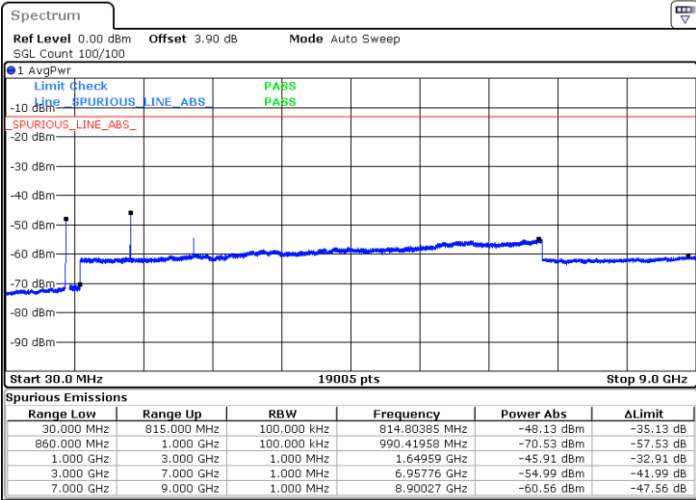




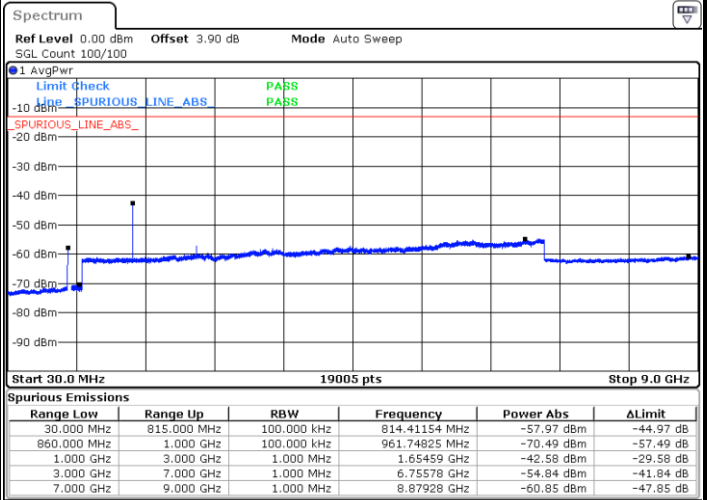
FR1 n5+2A / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

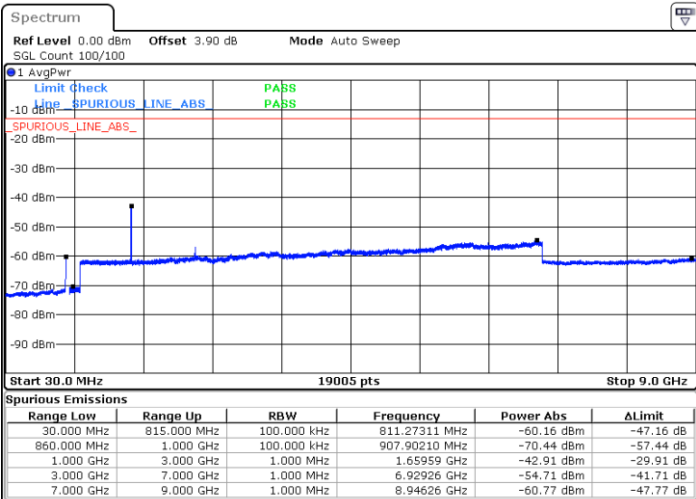


Date: 14.JAN.2021 02:40:03



Date: 14.JAN.2021 02:51:35

Highest Channel / 1RB



Date: 14.JAN.2021 02:53:18



Frequency Stability

Test Conditions		NR n5+2A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n25 SA

Peak-to-Average Ratio

Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.30	4.29	5.04	5.30	PASS
Middle CH	3.57	3.68	5.71	5.42	
Highest CH	3.68	3.71	5.51	5.16	



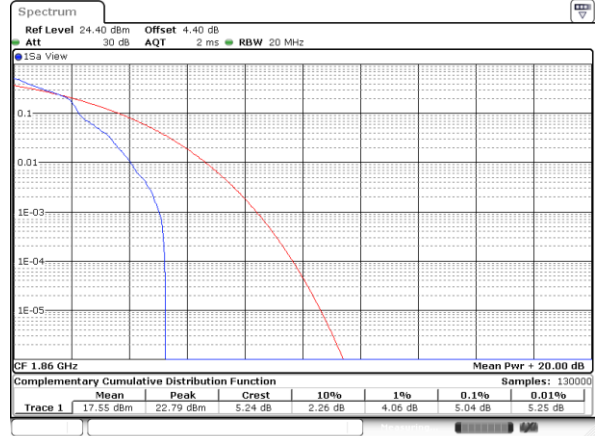
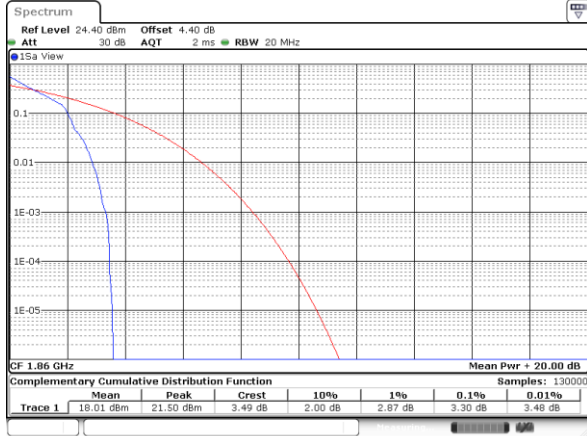
FR1 n25 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

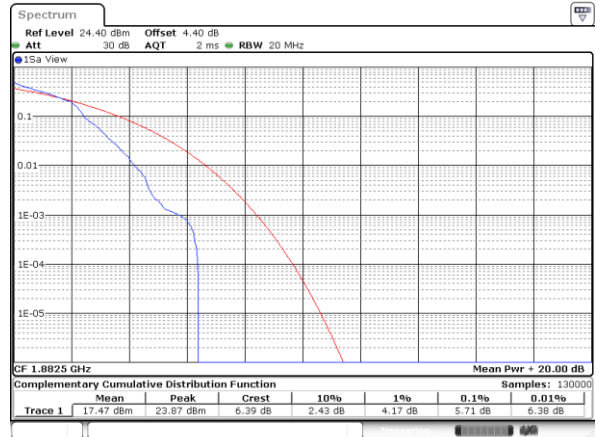
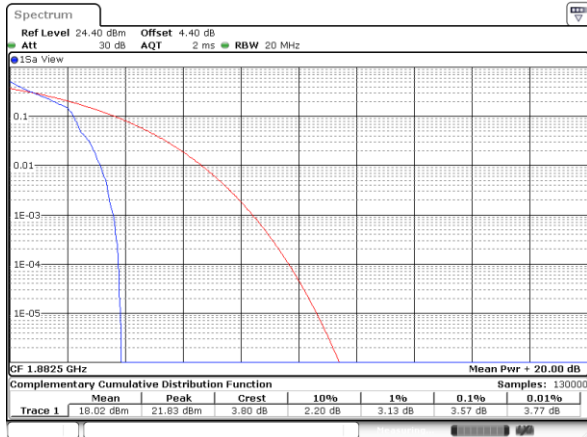


Date: 13, JAN, 2021 08:41:56

Date: 13, JAN, 2021 08:40:11

Middle Channel / 1 RB

Middle Channel / 1 RB

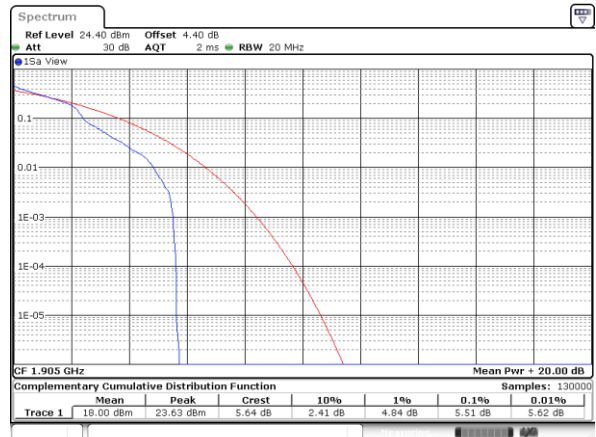
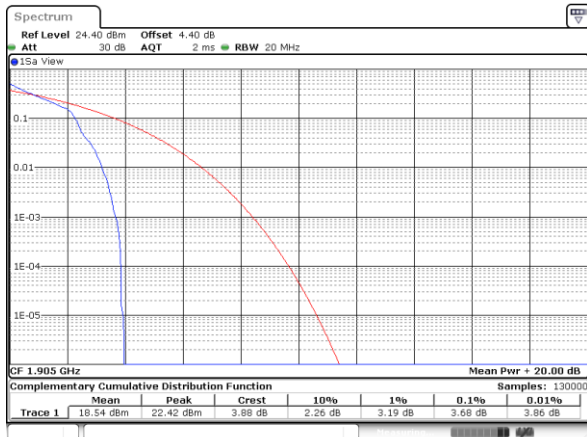


Date: 13, JAN, 2021 07:53:00

Date: 13, JAN, 2021 07:53:11

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 14, JAN, 2021 05:44:55

Date: 14, JAN, 2021 05:44:43



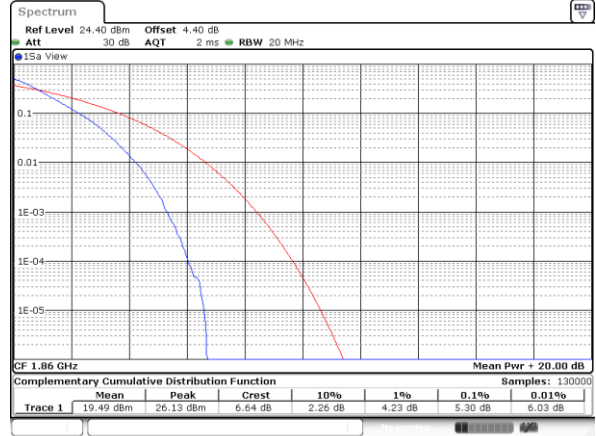
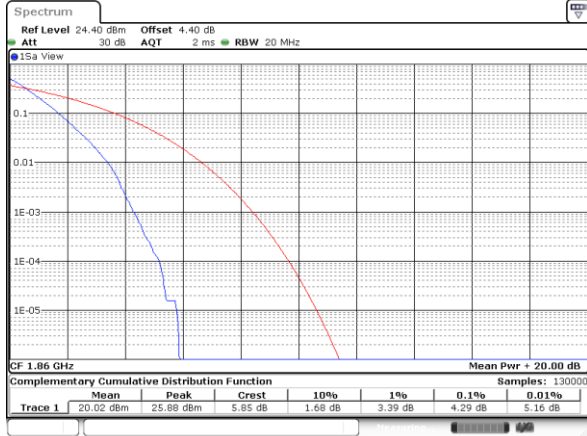
FR1 n25 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

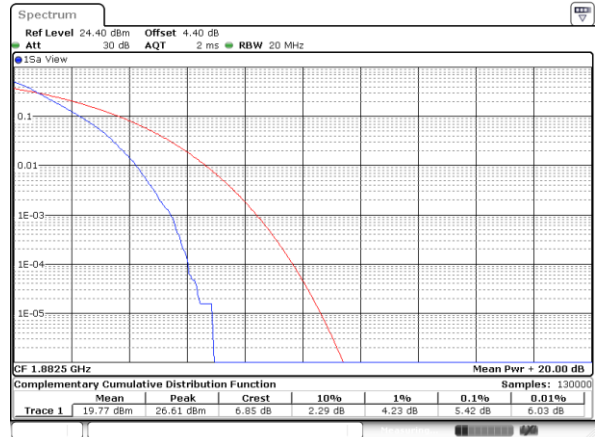
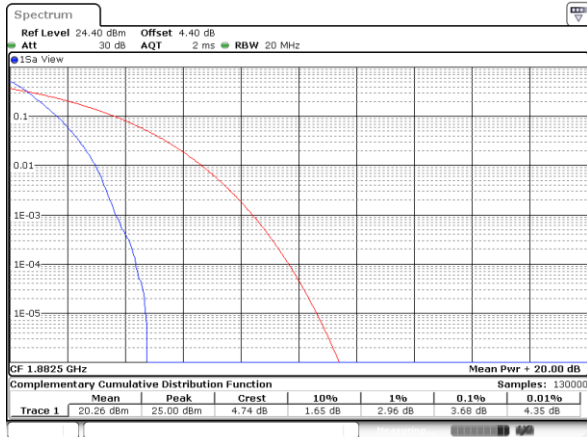


Date: 13, JAN, 2021 08:46:49

Date: 13, JAN, 2021 08:47:13

Middle Channel / Full RB

Middle Channel / Full RB

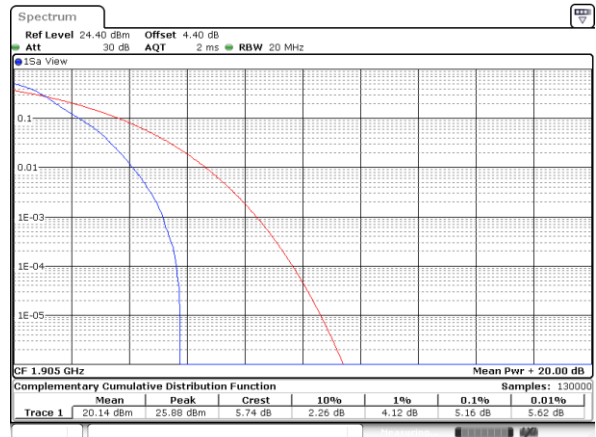
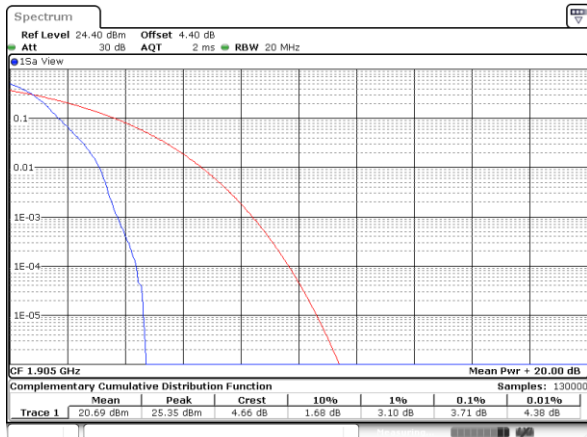


Date: 13, JAN, 2021 07:52:31

Date: 13, JAN, 2021 07:52:08

Highest Channel / Full RB

Highest Channel / Full RB



Date: 14, JAN, 2021 05:43:17

Date: 14, JAN, 2021 05:44:21



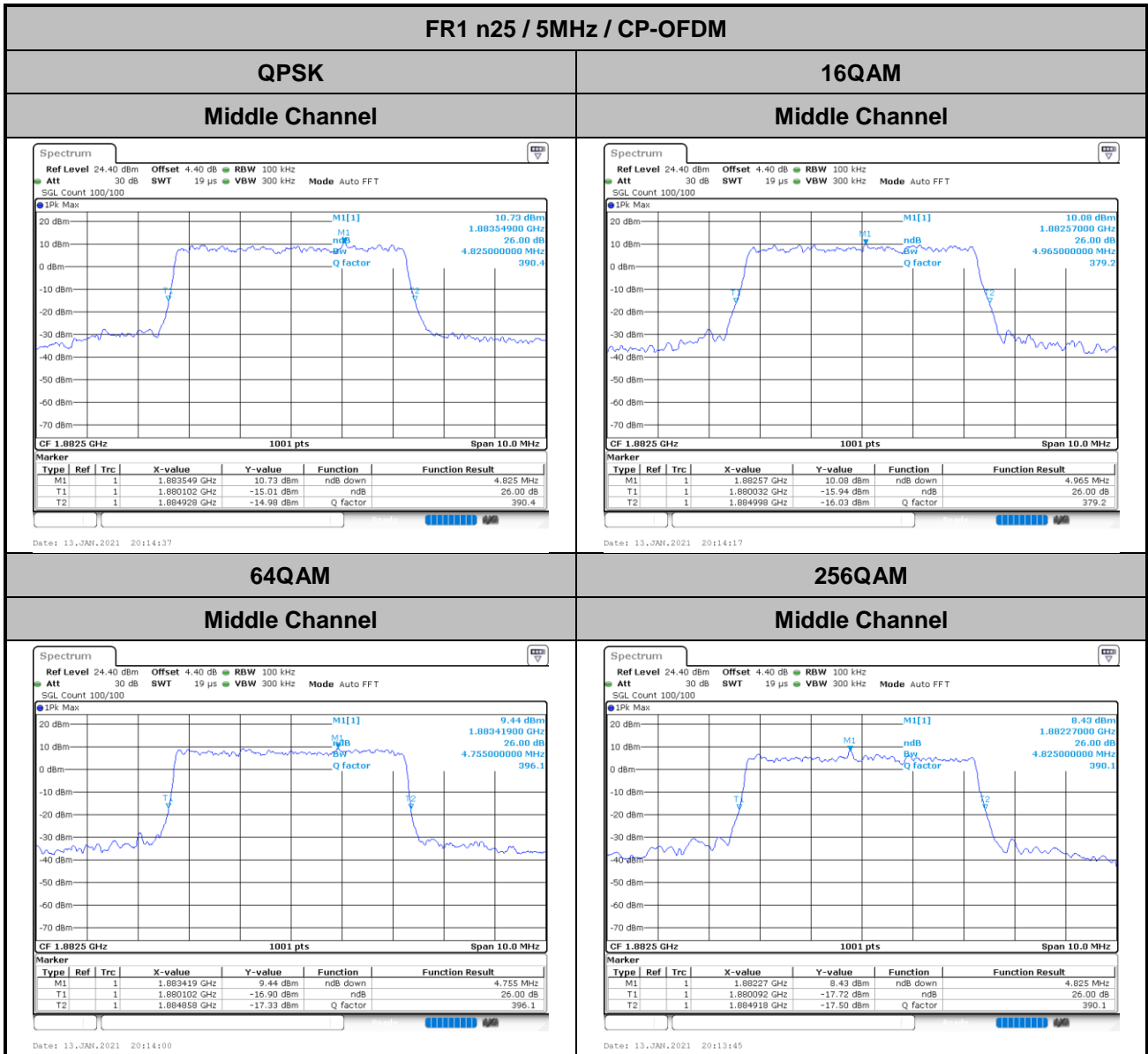
26dB Bandwidth

Mode	FR1 n25 : 26dB BW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.83	4.96	4.75	4.83				

Mode	FR1 n25 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.77	9.73	9.87	9.75				

Mode	FR1 n25 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.89	14.96	14.89	14.84				

Mode	FR1 n25 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.90	20.26	19.90	19.86				





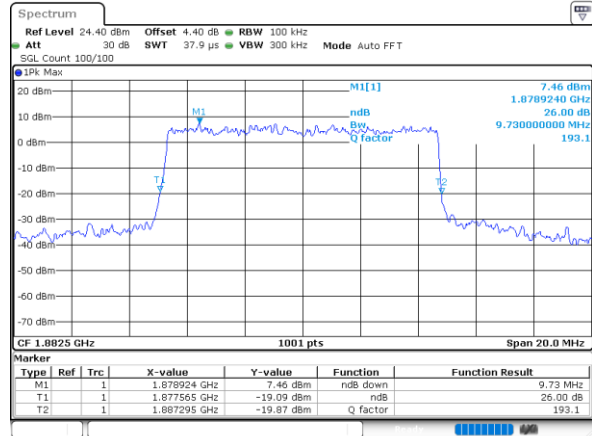
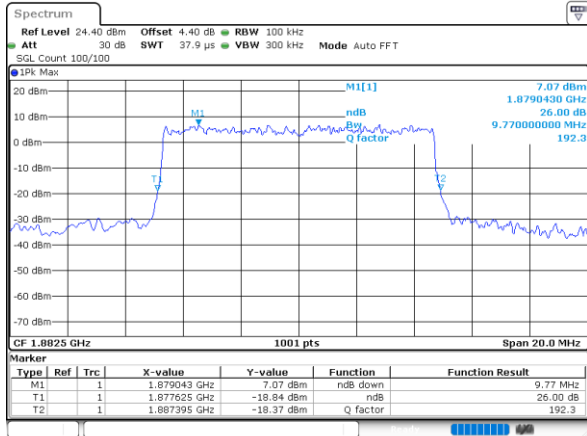
FR1 n25 / 10MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 20:32:48

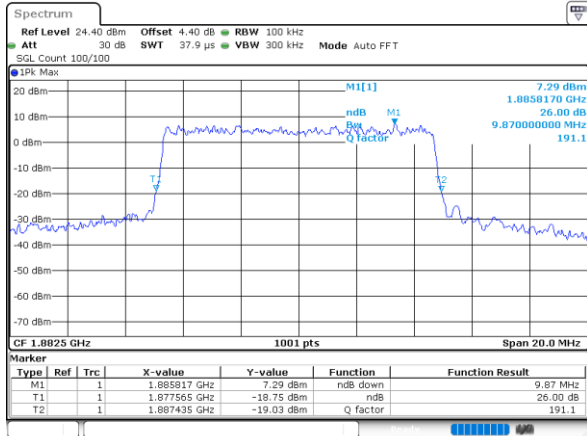
Date: 13.JAN.2021 20:33:12

64QAM

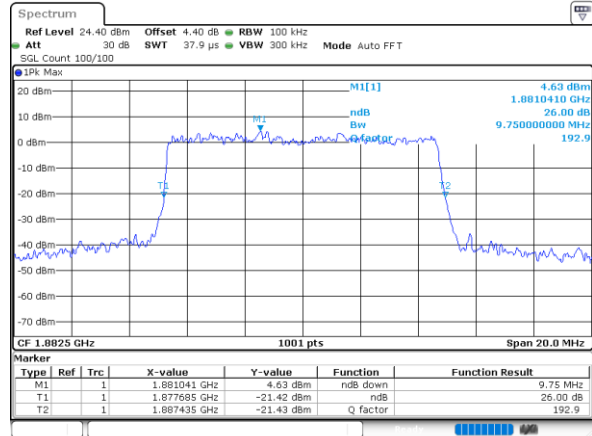
256QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 20:33:31



Date: 13.JAN.2021 20:33:46



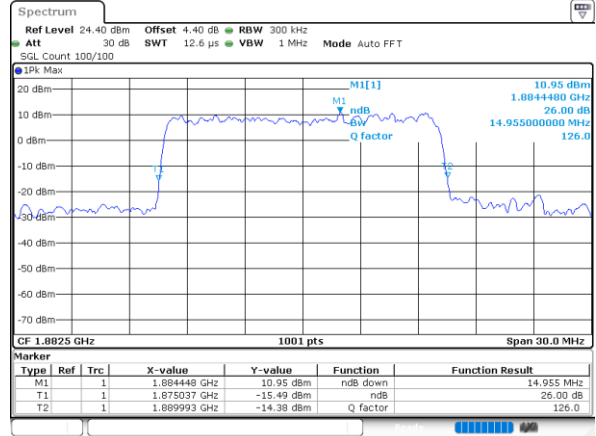
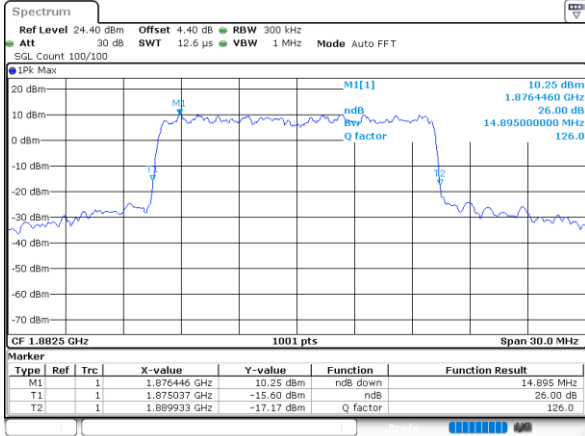
FR1 n25 / 15MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13_JAN_2021 20:35:27

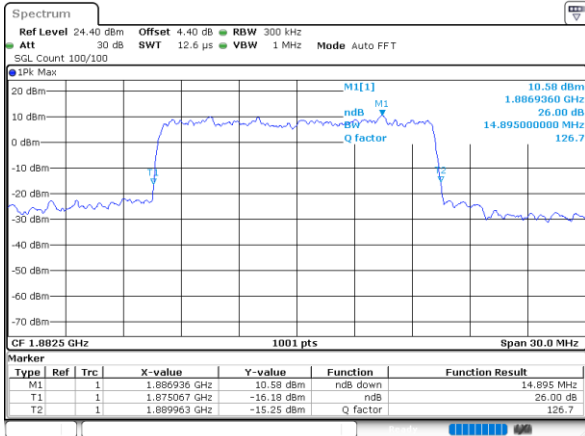
Date: 13_JAN_2021 20:35:11

64QAM

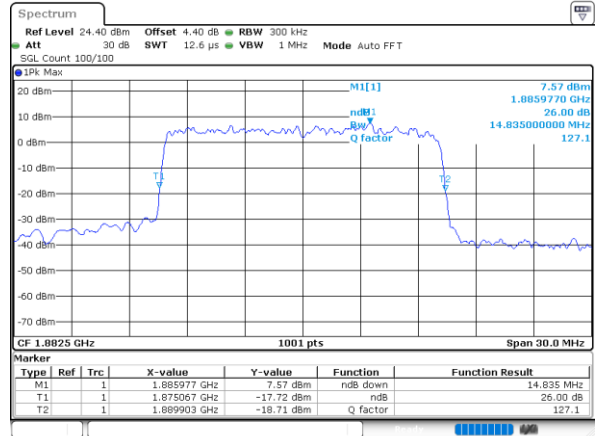
256QAM

Middle Channel

Middle Channel



Date: 13_JAN_2021 20:34:56



Date: 13_JAN_2021 20:34:41



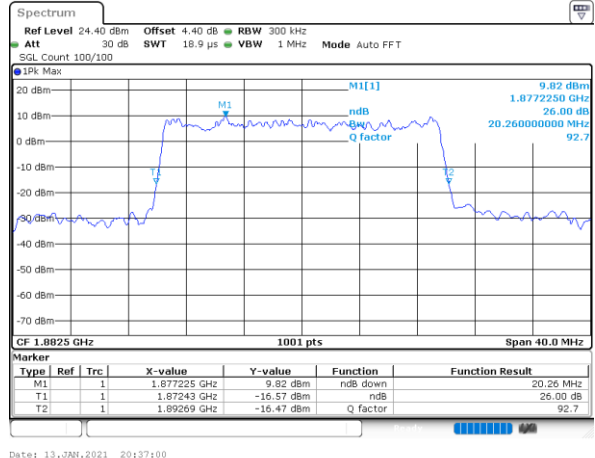
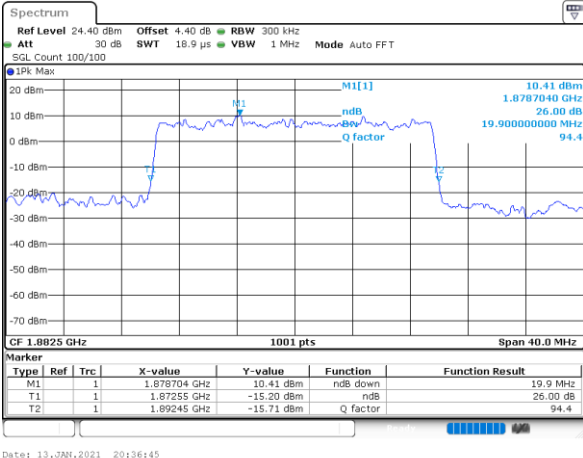
FR1 n25 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

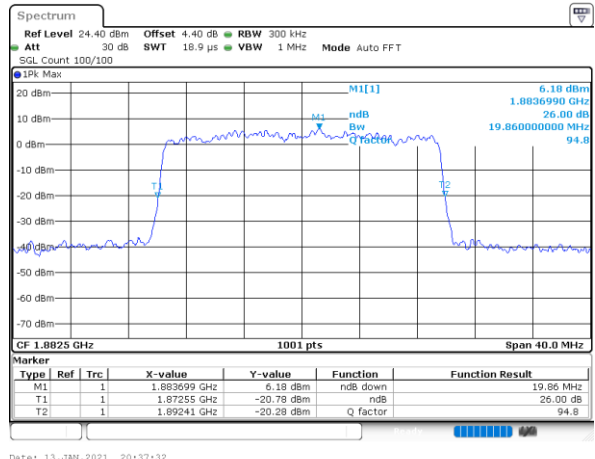
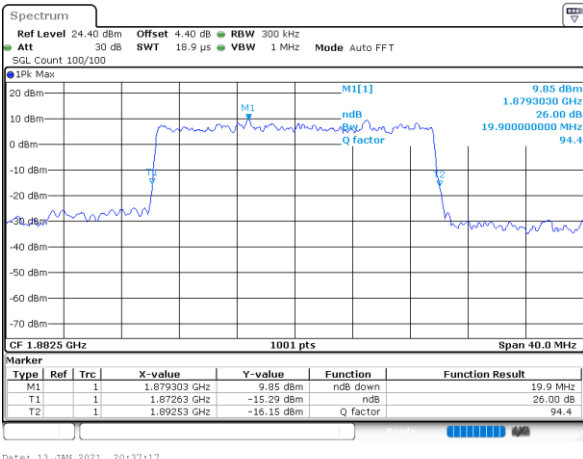


64QAM

256QAM

Middle Channel

Middle Channel





Occupied Bandwidth

Mode	FR1 n25 : OBW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.49	4.47	4.47	4.49				

Mode	FR1 n25 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.25	9.29	9.31	9.27				

Mode	FR1 n25 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.12	14.12	14.12	14.09				

Mode	FR1 n25 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.86	18.94	18.90	18.94				



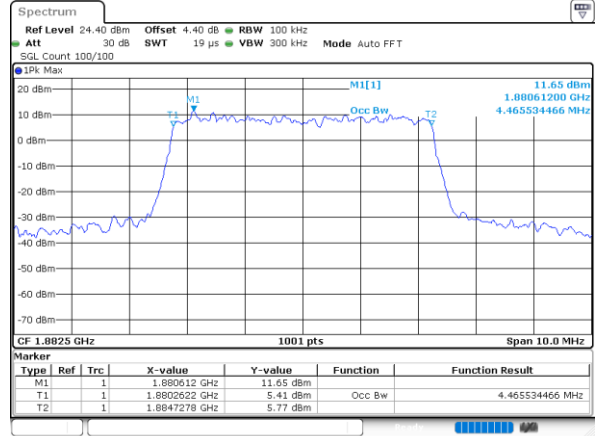
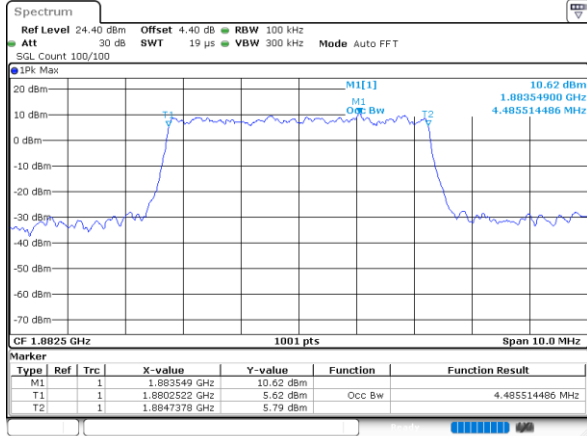
FR1 n25 / 5MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 20:14:33

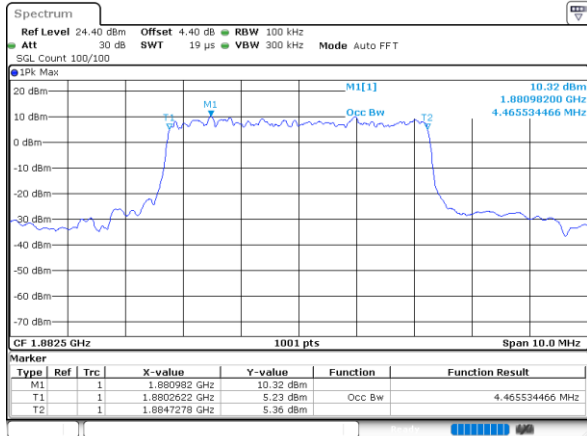
Date: 13.JAN.2021 20:14:13

64QAM

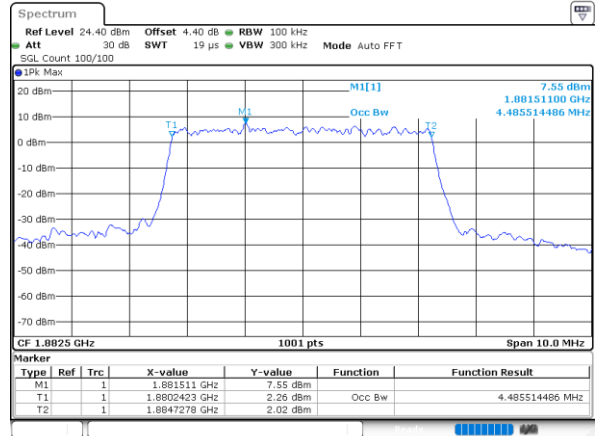
256QAM

Middle Channel

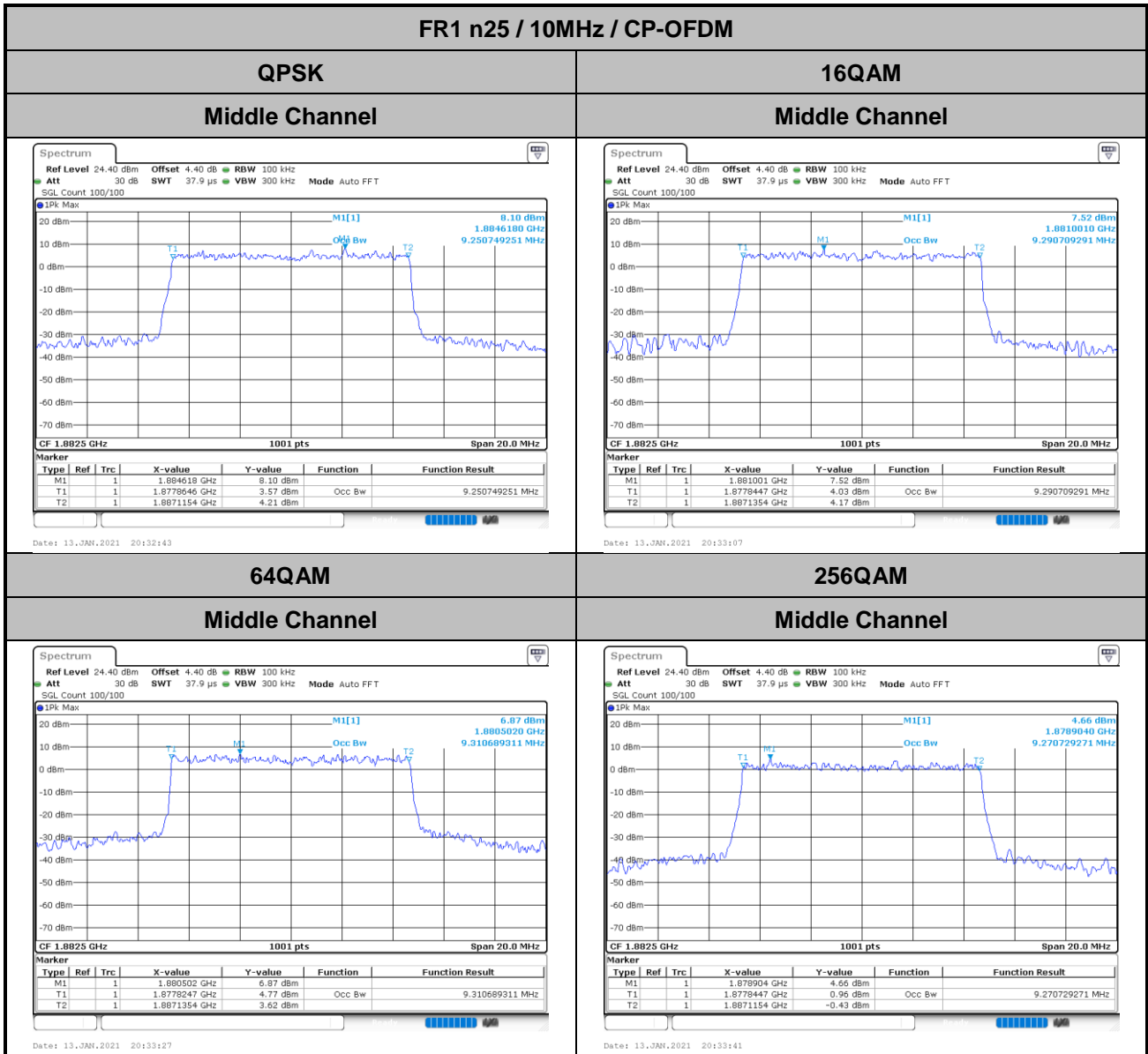
Middle Channel

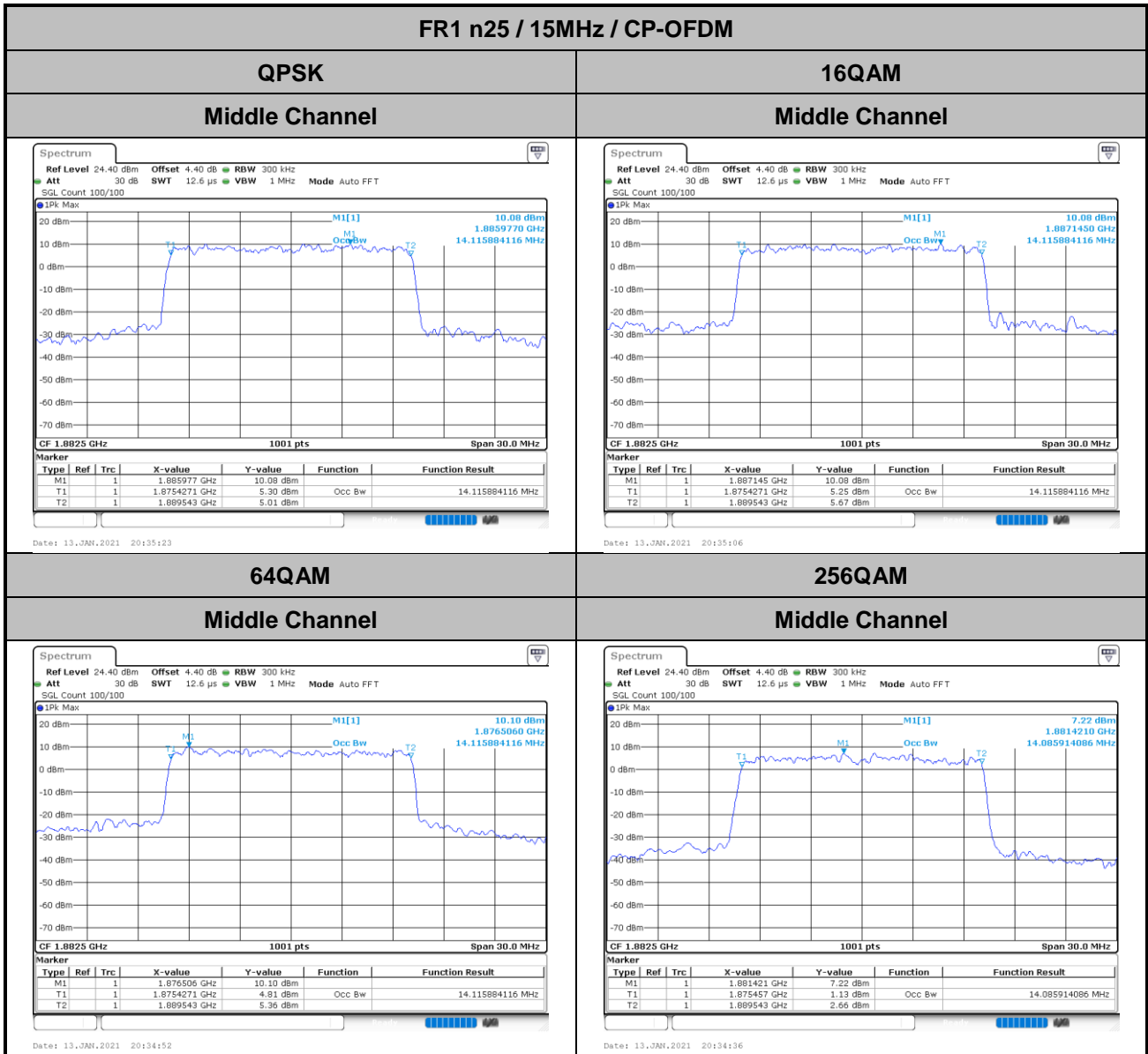


Date: 13.JAN.2021 20:13:56



Date: 13.JAN.2021 20:13:41







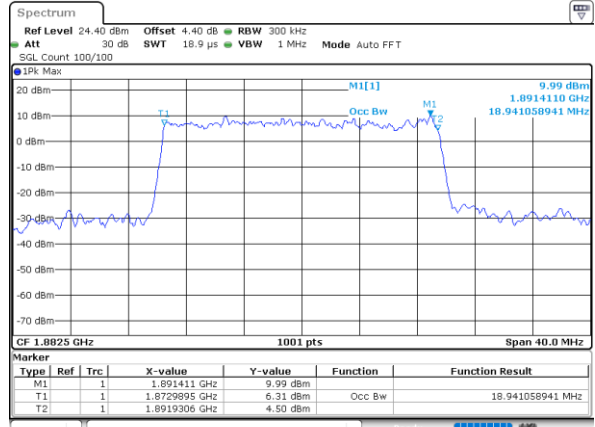
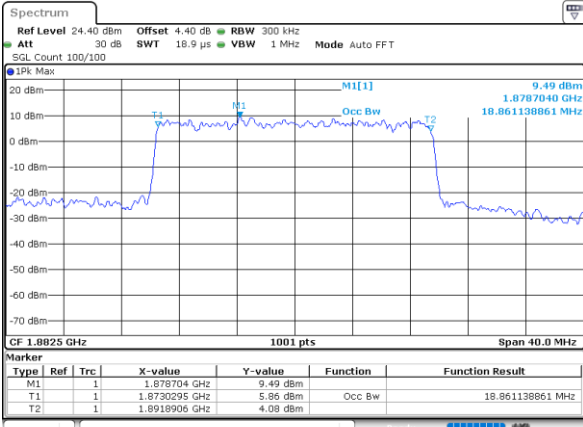
FR1 n25 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13_JAN_2021 20:36:40

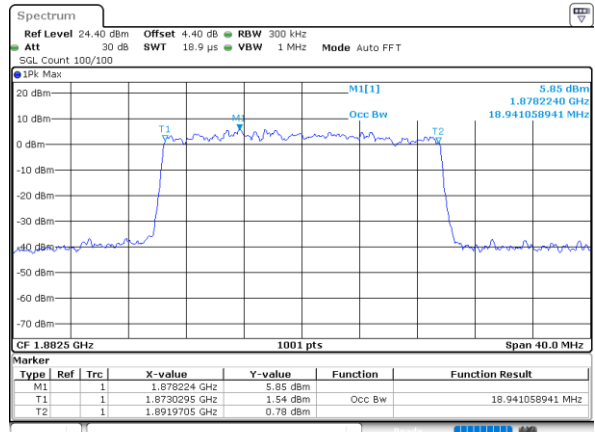
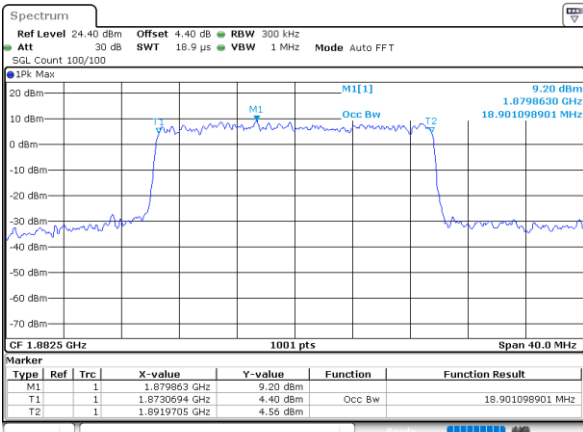
Date: 13_JAN_2021 20:36:56

64QAM

256QAM

Middle Channel

Middle Channel



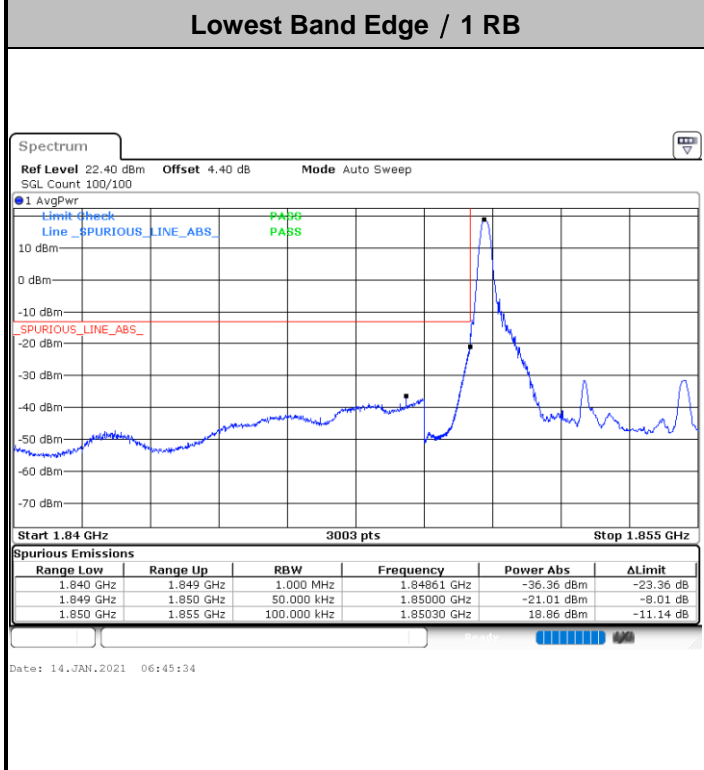
Date: 13_JAN_2021 20:37:12

Date: 13_JAN_2021 20:37:27

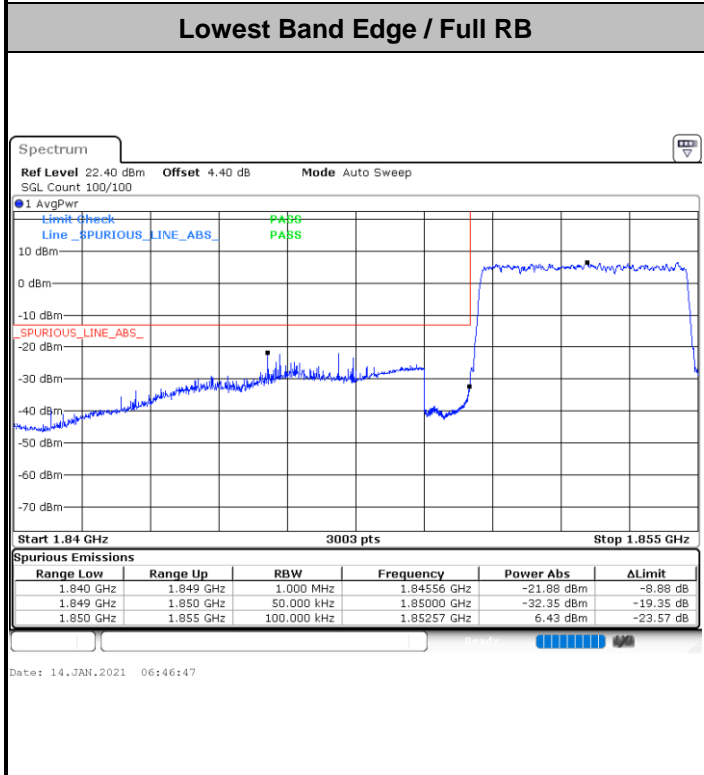


Conducted Band Edge

FR1 n25 / 5MHz / DFT-S OFDM BPSK



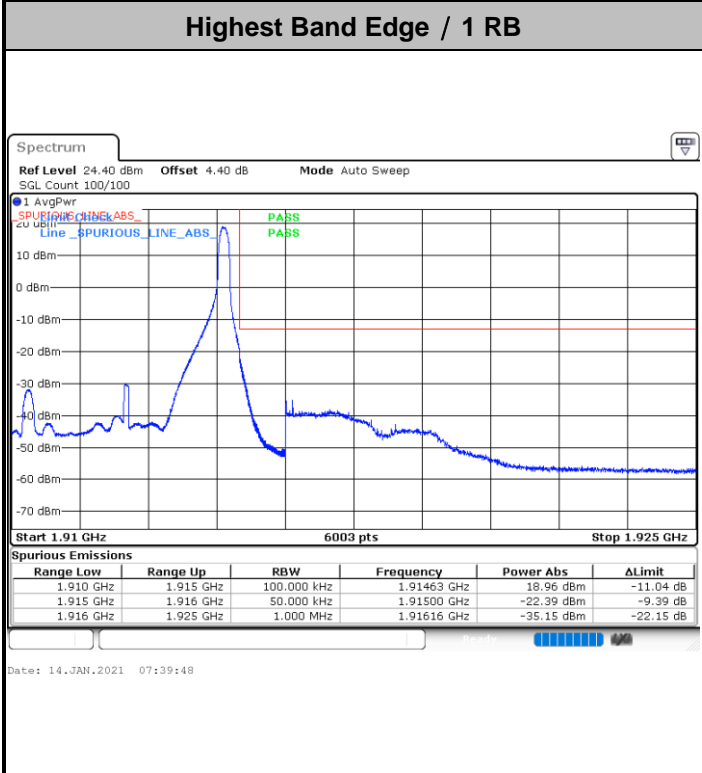
Channel Power < -13dBm Pass



Channel Power < -13dBm Pass

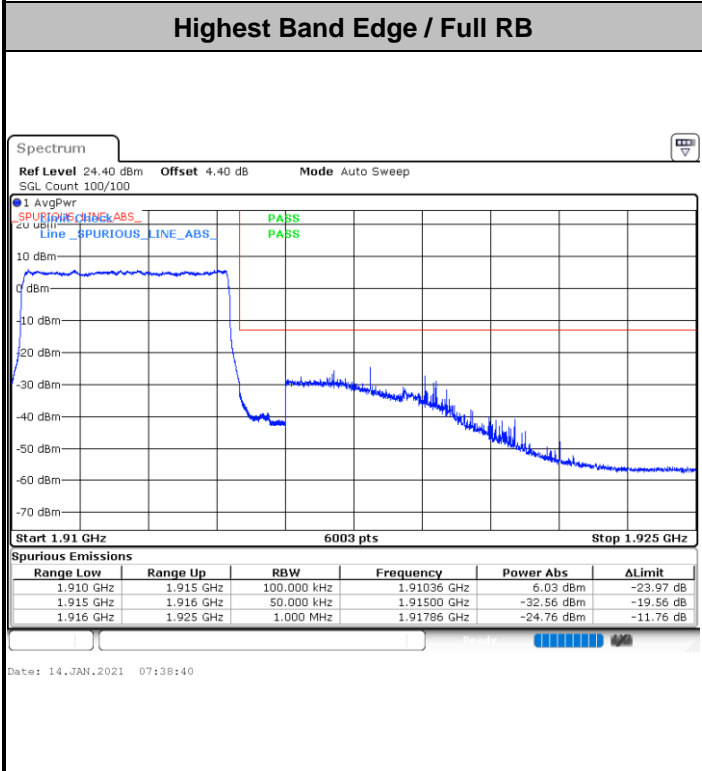


FR1 n25 / 5MHz / DFT-S OFDM BPSK



Channel Power < -13dBm Pass

/



Channel Power < -13dBm Pass

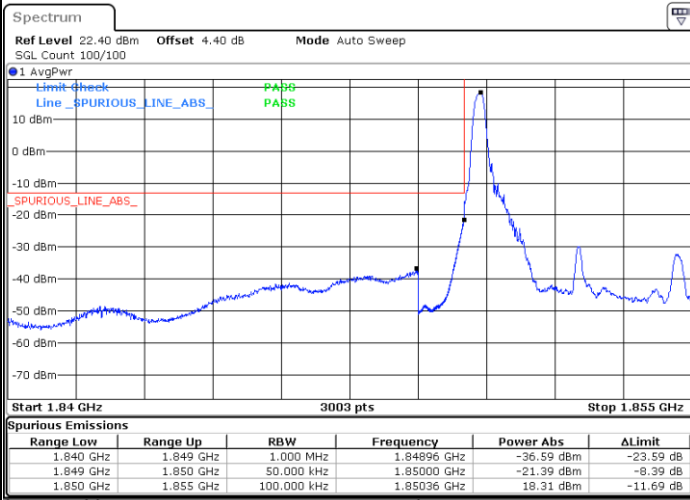
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FR1 n25 / 5MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

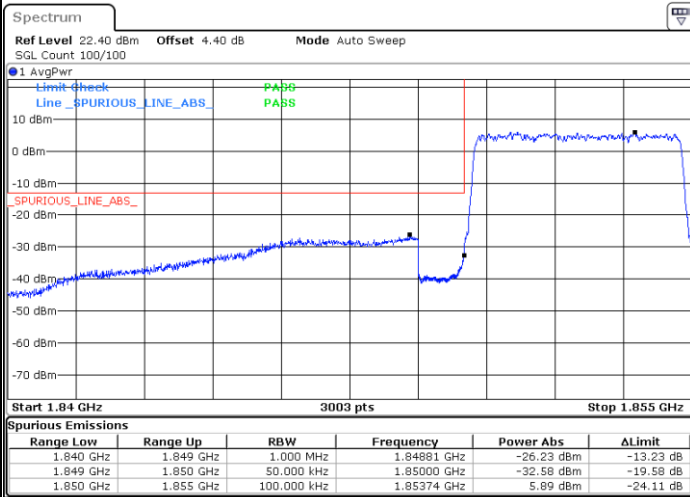
Channel Power < -13dBm Pass



Date: 14.JAN.2021 06:44:18

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



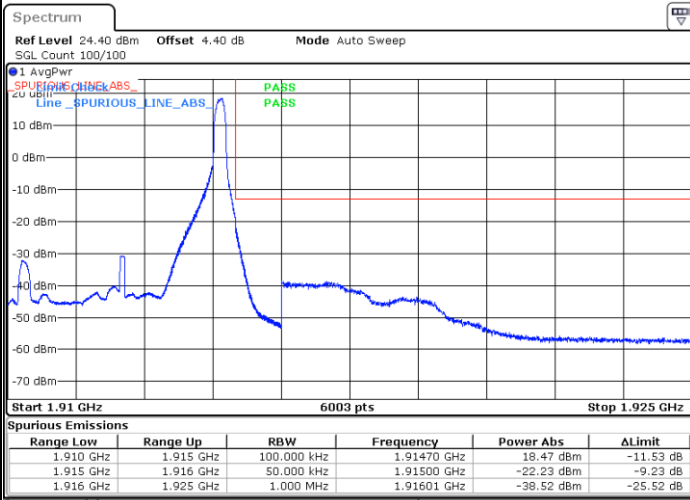
Date: 14.JAN.2021 06:48:06



FR1 n25 / 5MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

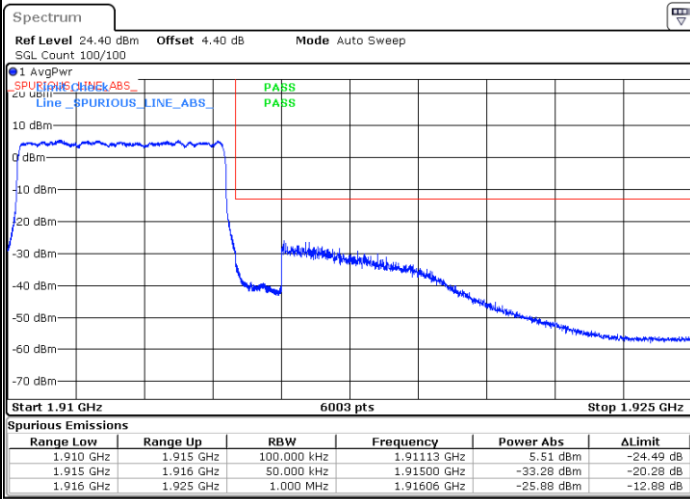
Channel Power < -13dBm Pass



Date: 14. JAN. 2021 07:40:44

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



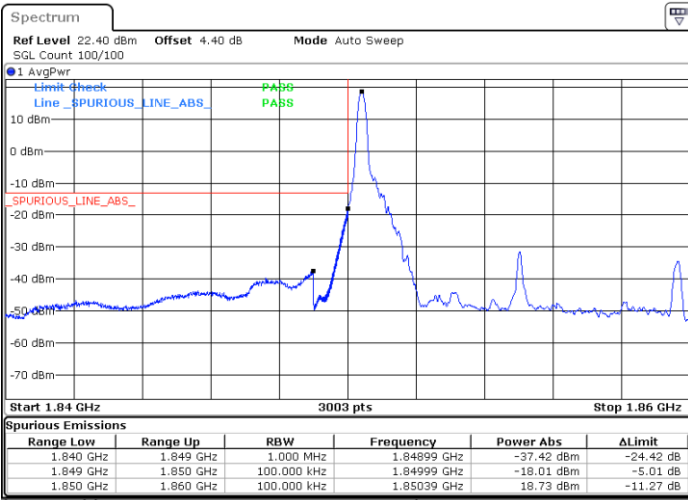
Date: 14. JAN. 2021 07:37:34



FR1 n25 / 10MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

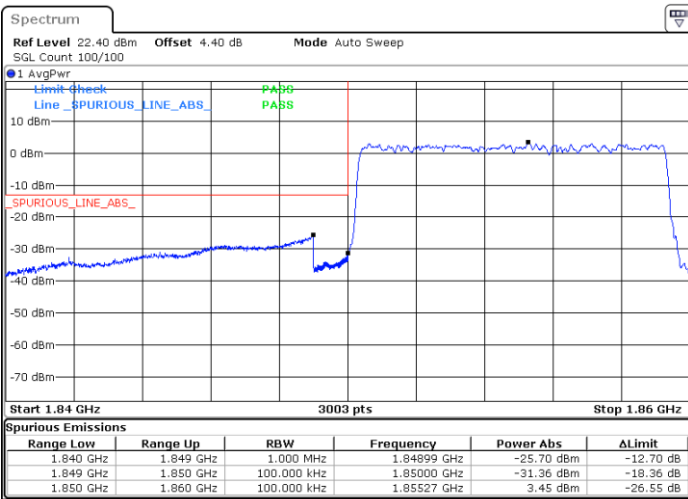
Channel Power < -13dBm Pass



Date: 14. JAN. 2021 06:15:32

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



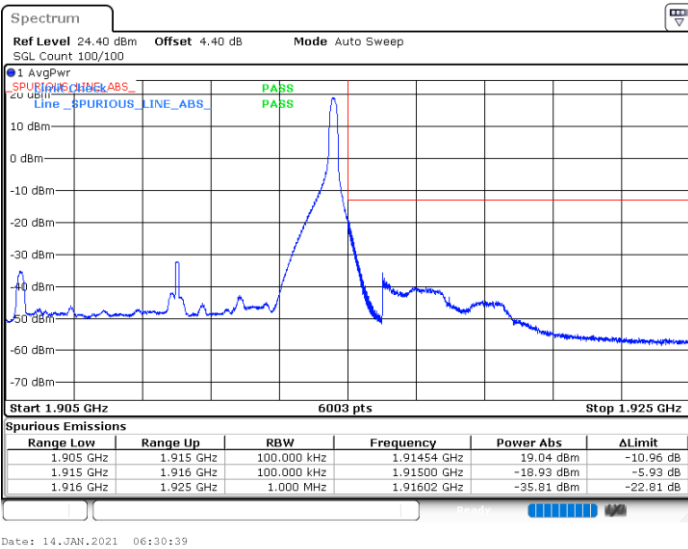
Date: 14. JAN. 2021 06:15:55



FR1 n25 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

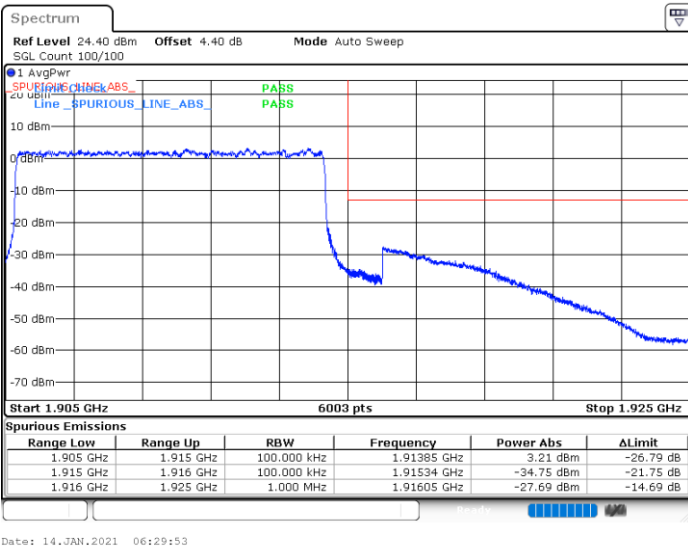
Channel Power < -13dBm Pass



Date: 14.JAN.2021 06:30:39

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



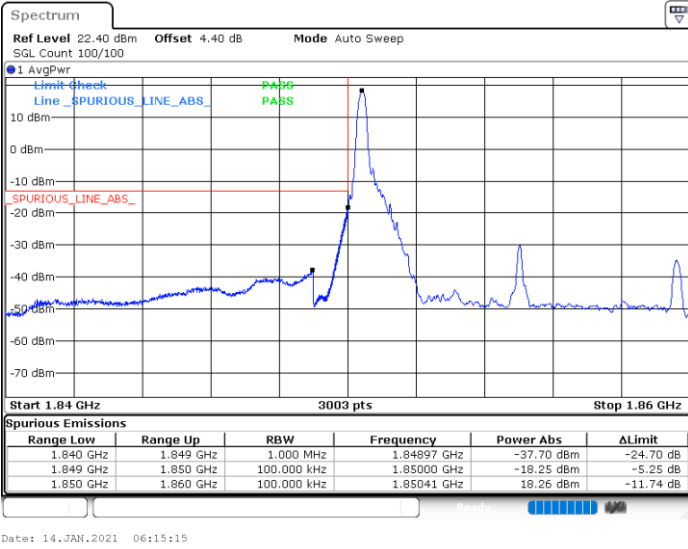
Date: 14.JAN.2021 06:29:53



FR1 n25 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

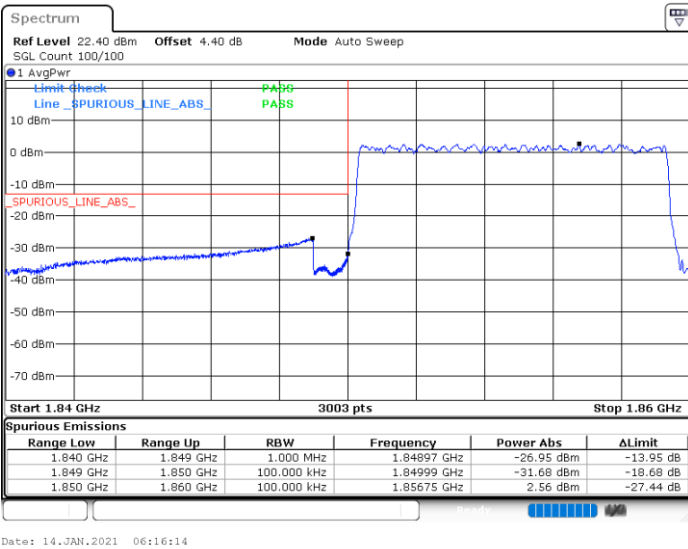
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



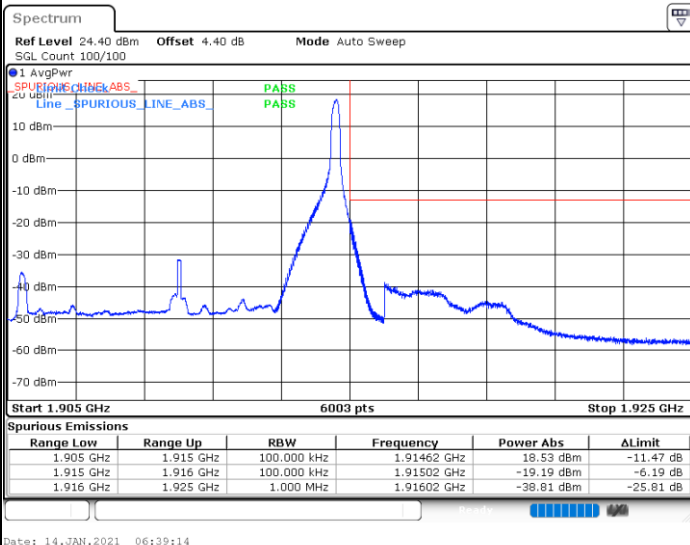
/



FR1 n25 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

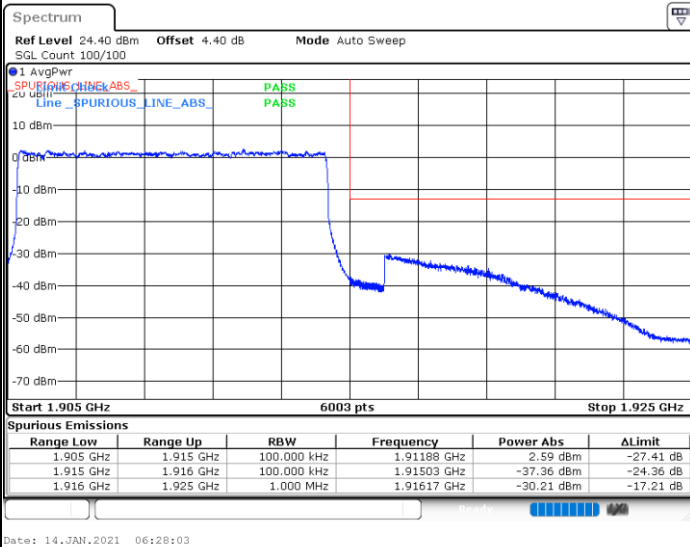
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



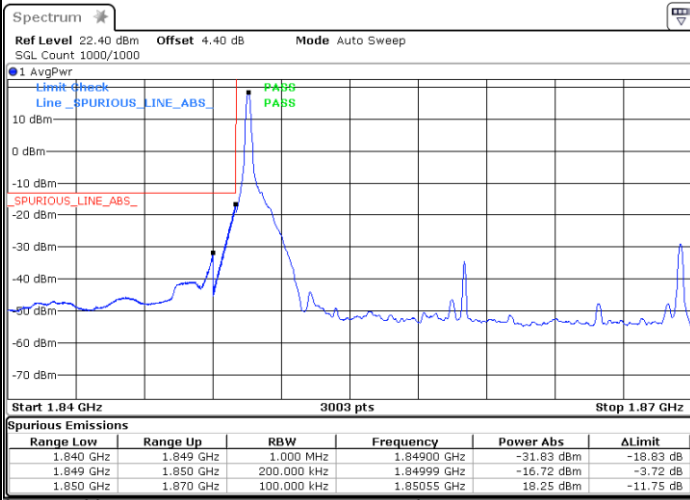
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FR1 n25 / 20MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

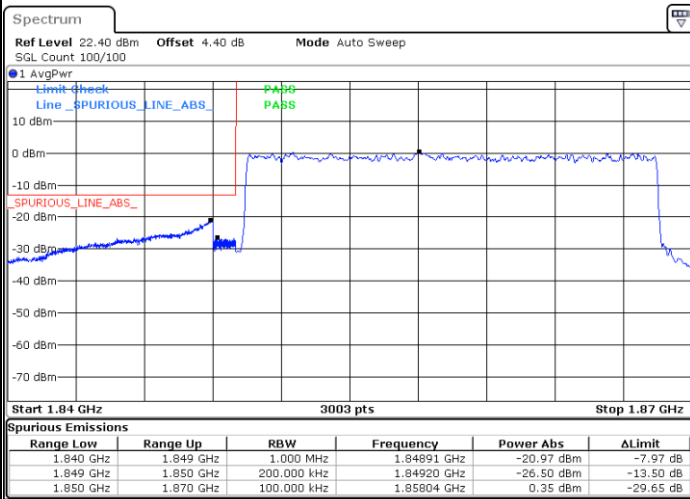
Channel Power < -13dBm Pass



Date: 13.JAN.2021 08:45:01

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



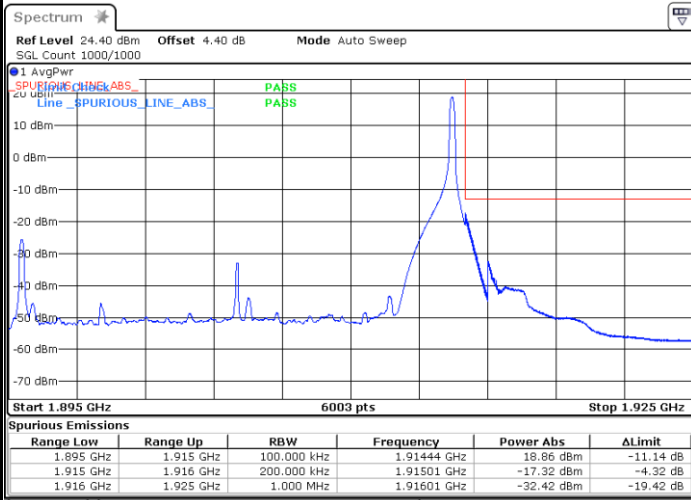
Date: 13.JAN.2021 08:46:33



FR1 n25 / 20MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

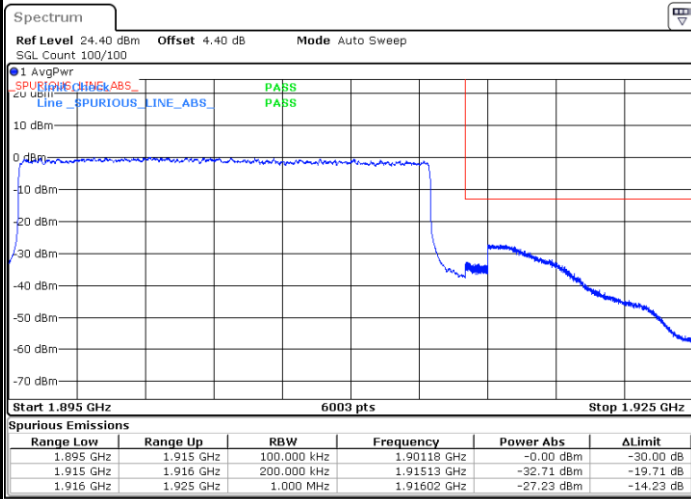
Channel Power < -13dBm Pass



Date: 14.JAN.2021 05:53:06

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



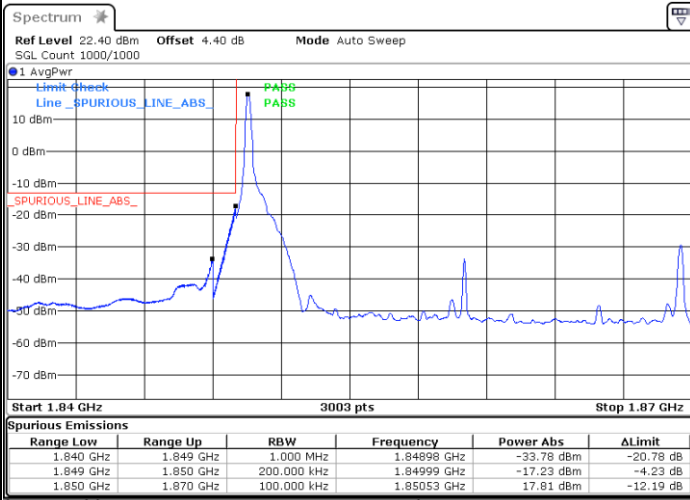
Date: 14.JAN.2021 06:05:25



FR1 n25 / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

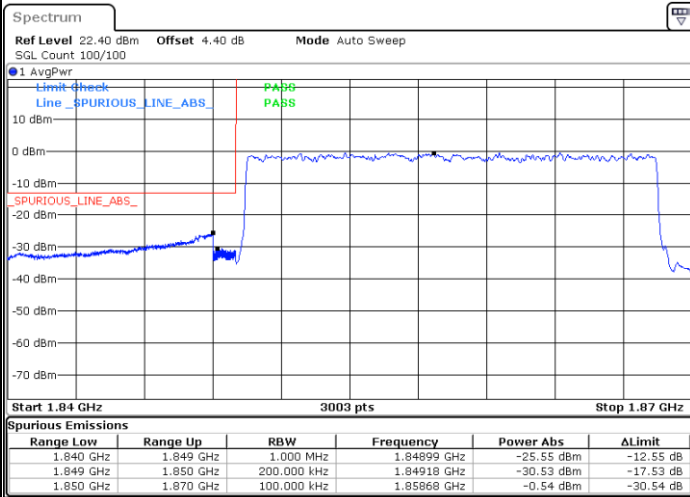
Channel Power < -13dBm Pass



Date: 13.JAN.2021 08:45:56

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



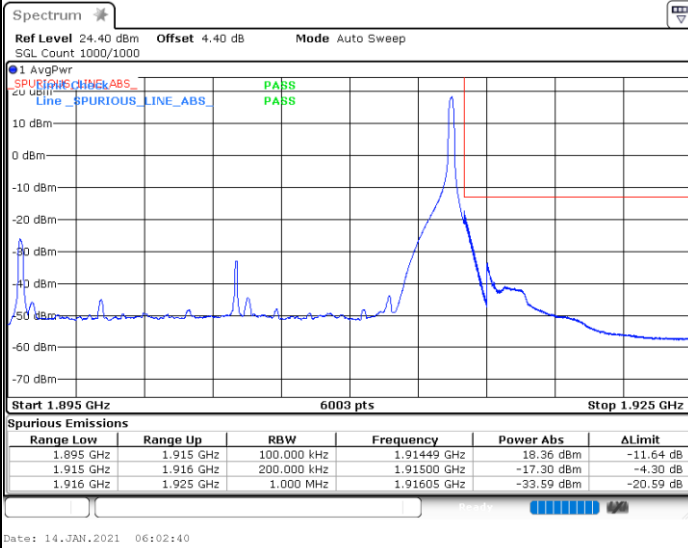
Date: 13.JAN.2021 08:46:15



FR1 n25 / 20MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

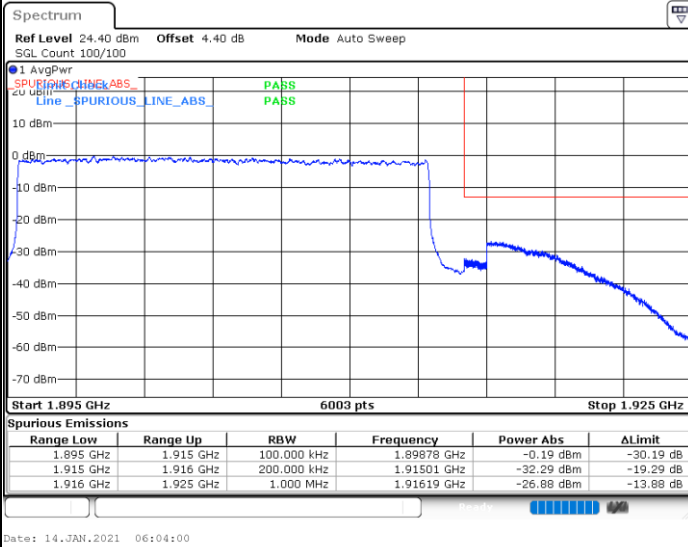
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



/

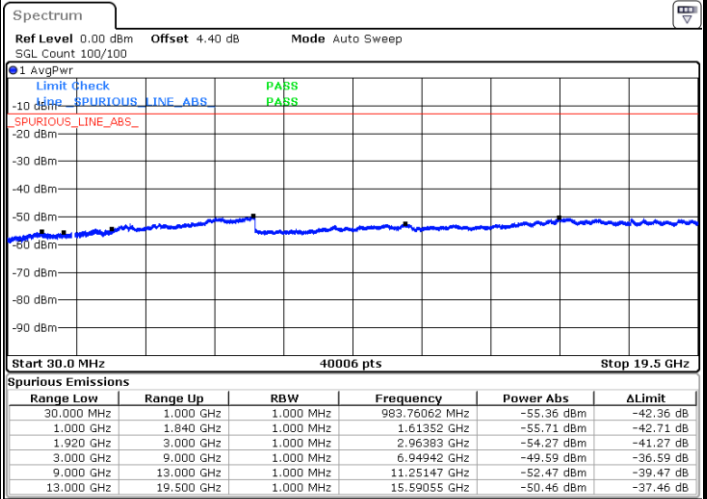
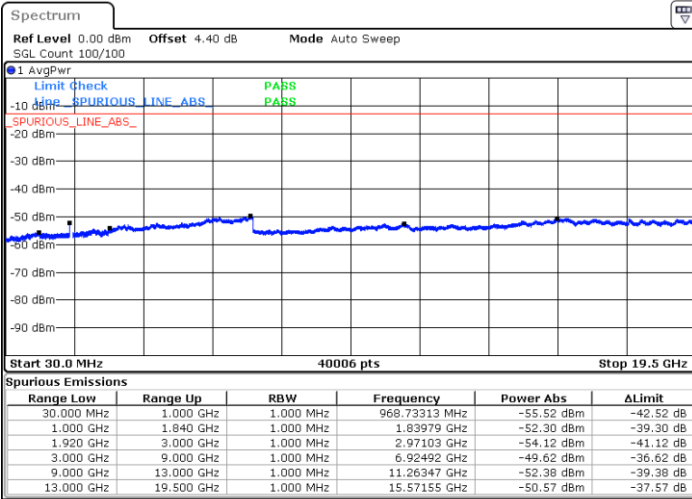


Conducted Spurious Emission

FR1 n25 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

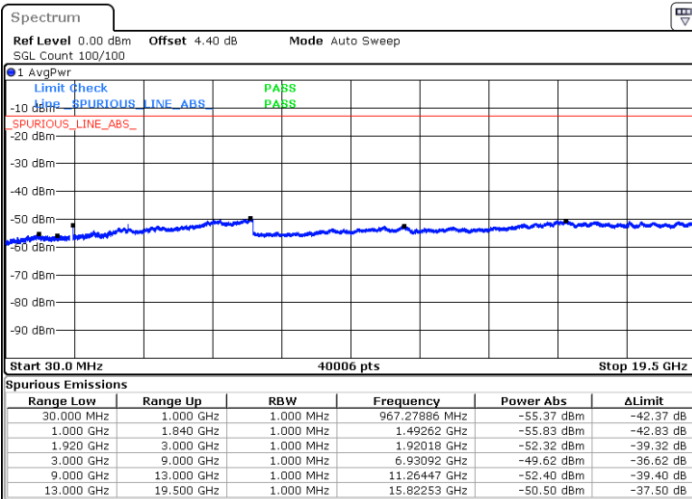
Middle Channel / 1RB



Date: 14.JAN.2021 06:41:40

Date: 14.JAN.2021 06:51:49

Highest Channel / 1RB



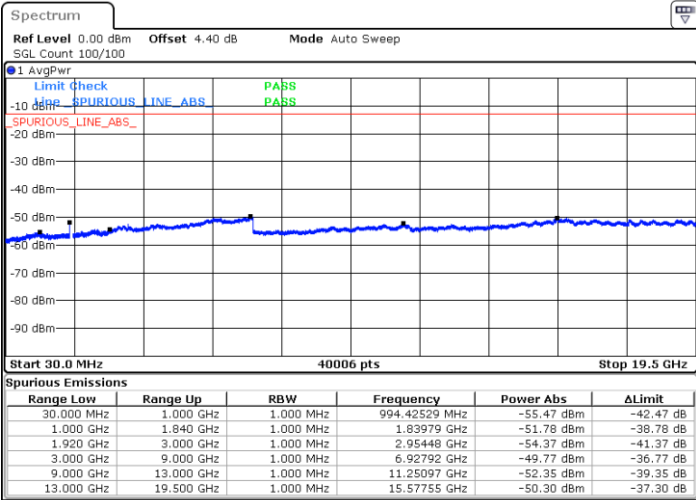
Date: 14.JAN.2021 07:35:57



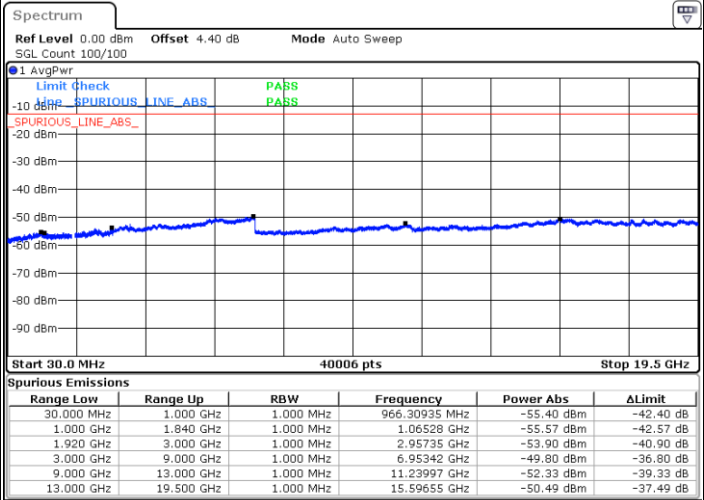
FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

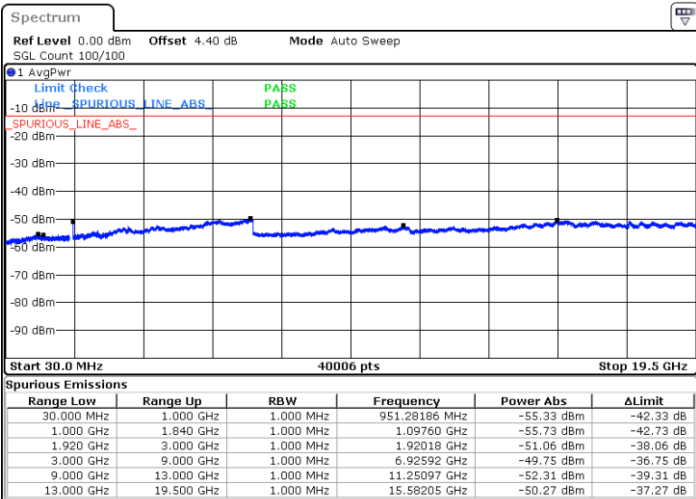


Date: 14.JAN.2021 06:43:31



Date: 14.JAN.2021 07:33:23

Highest Channel / 1RB

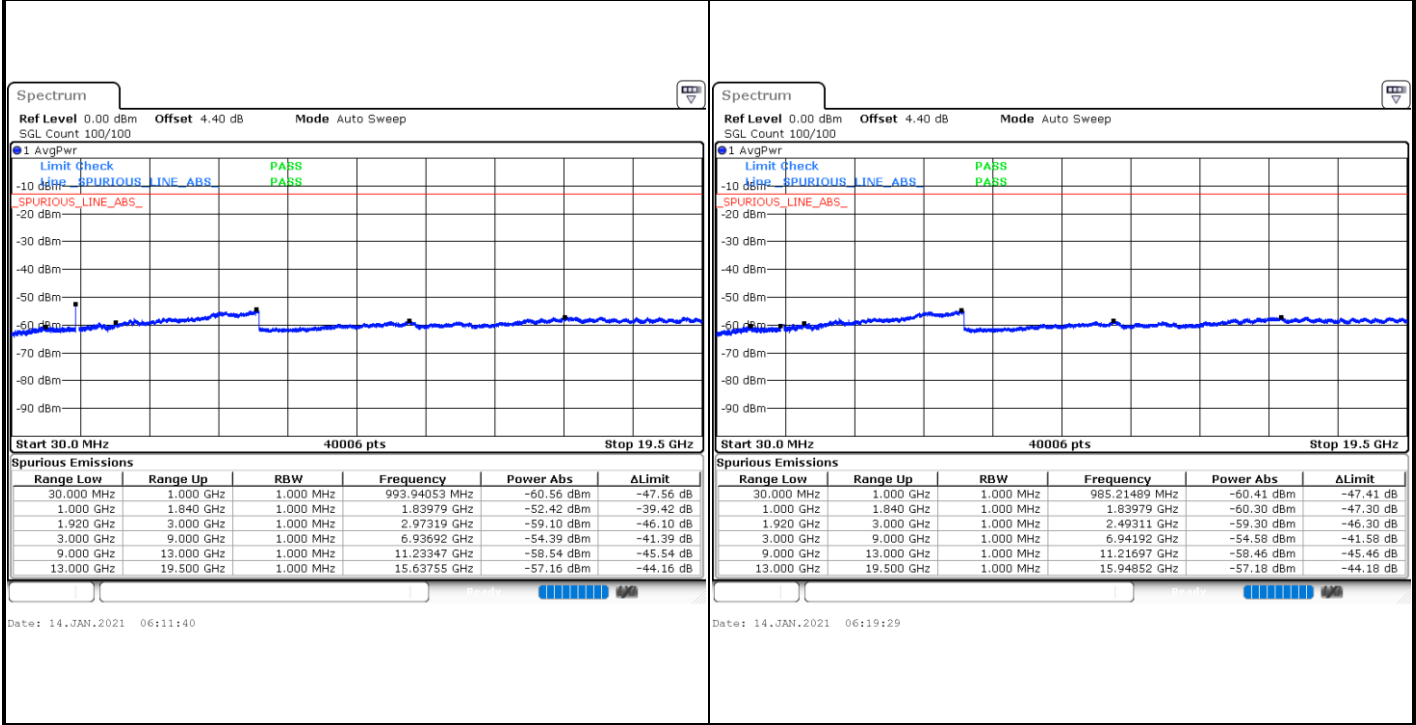


Date: 14.JAN.2021 07:35:13

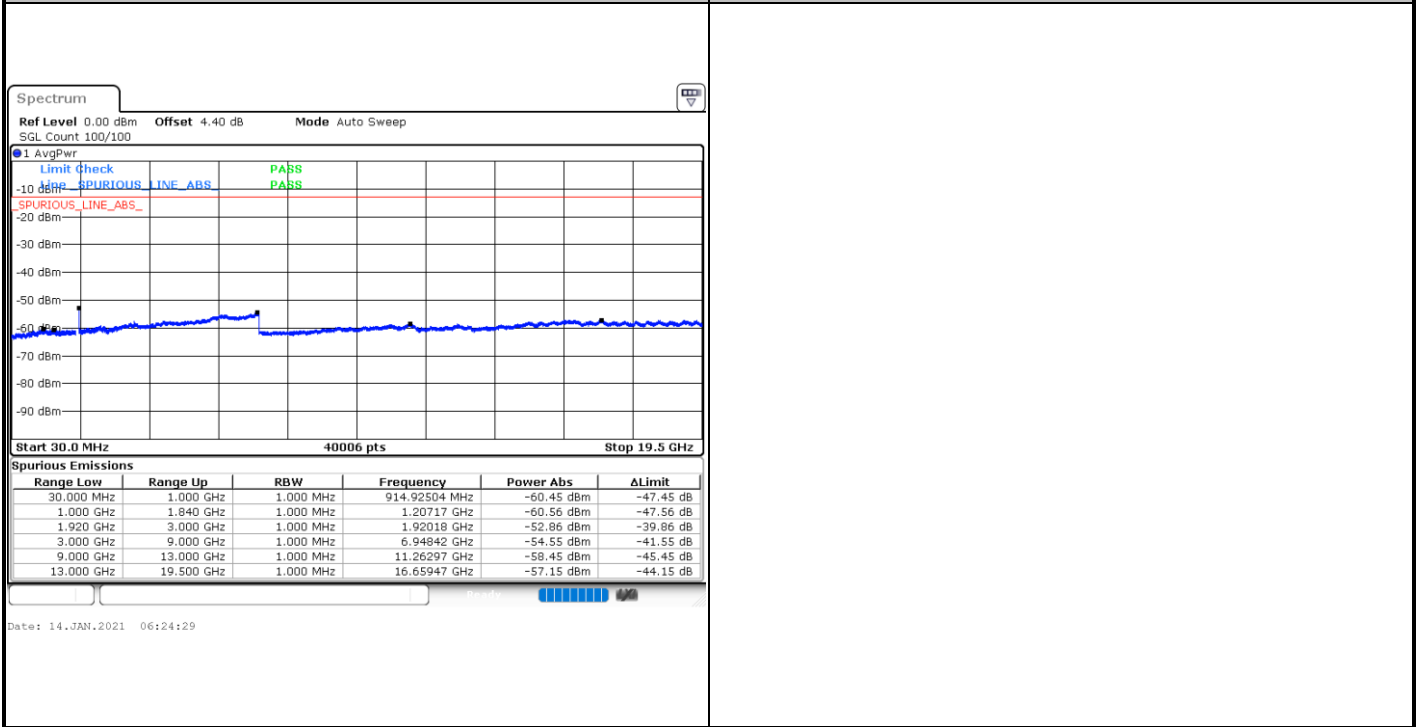


FR1 n25 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB	Middle Channel / 1RB
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Highest Channel / 1RB

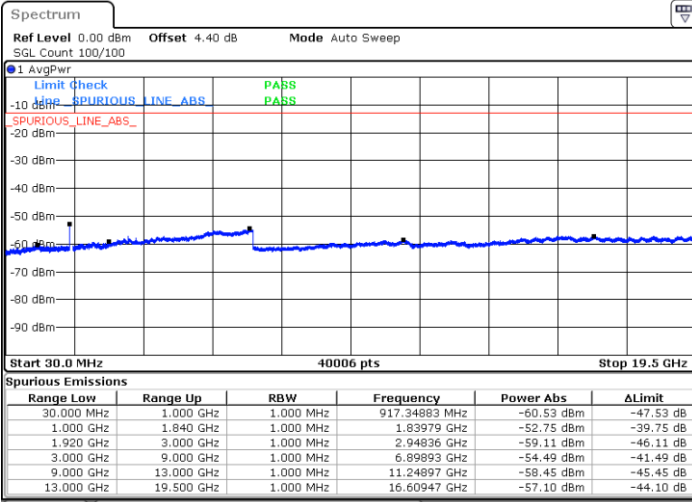




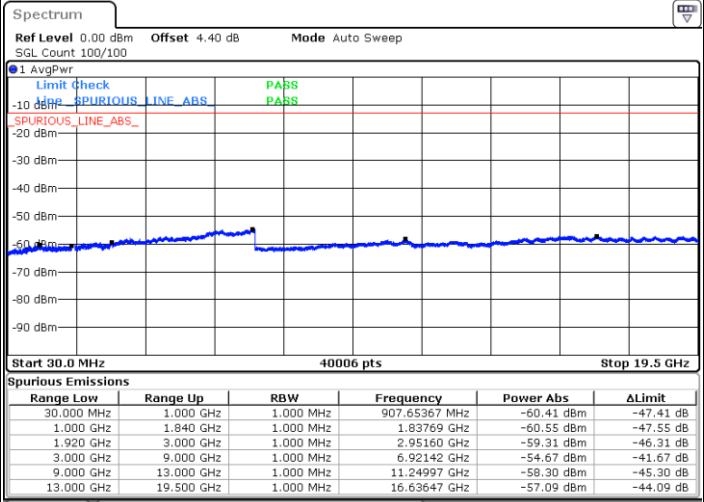
FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

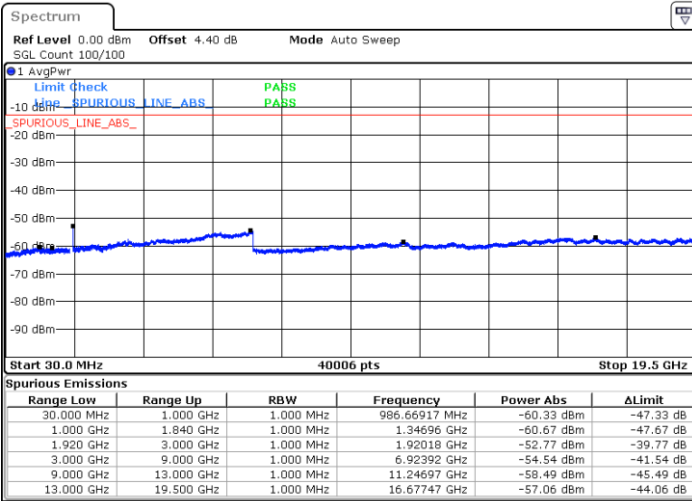


Date: 14.JAN.2021 06:13:34



Date: 14.JAN.2021 06:21:13

Highest Channel / 1RB

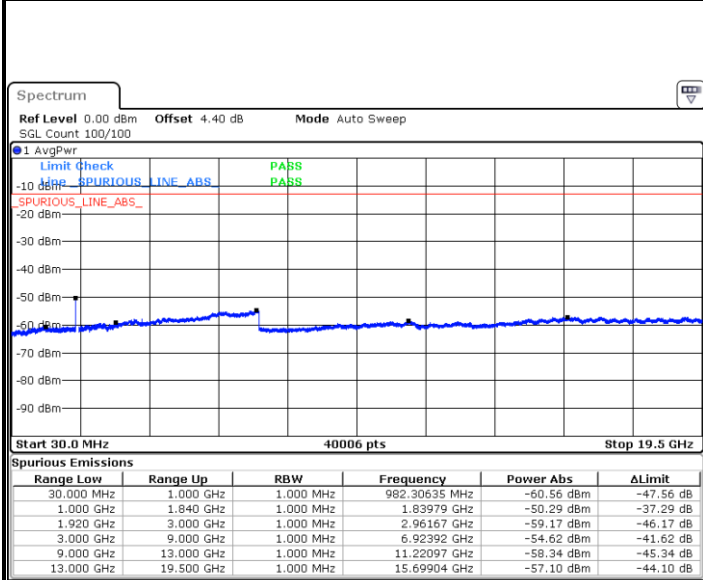


Date: 14.JAN.2021 06:22:47



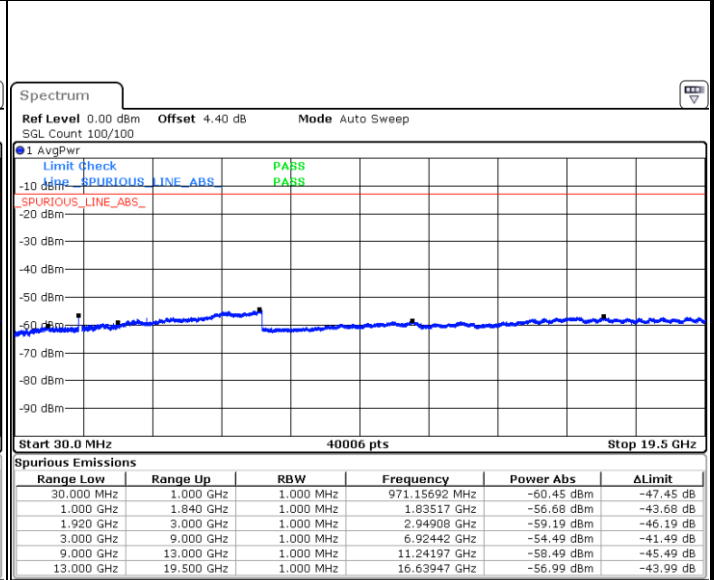
FR1 n25 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



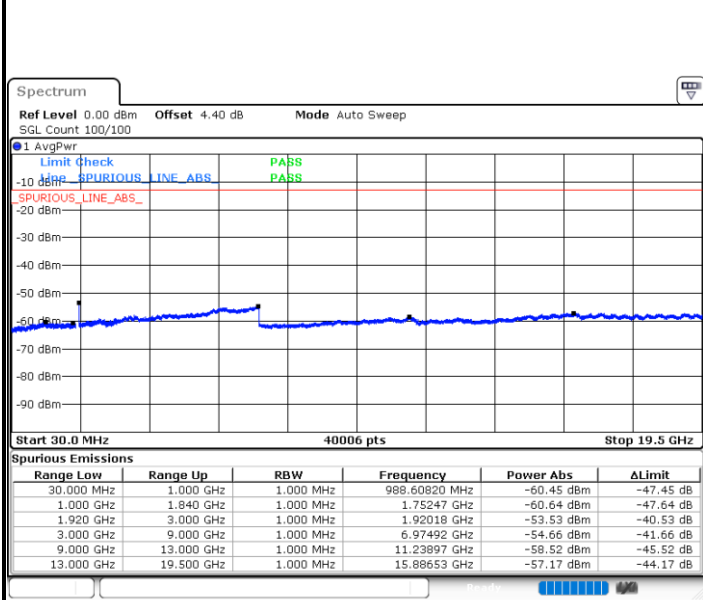
Date: 13.JAN.2021 08:28:07

Middle Channel / 1RB



Date: 13.JAN.2021 08:00:42

Highest Channel / 1RB



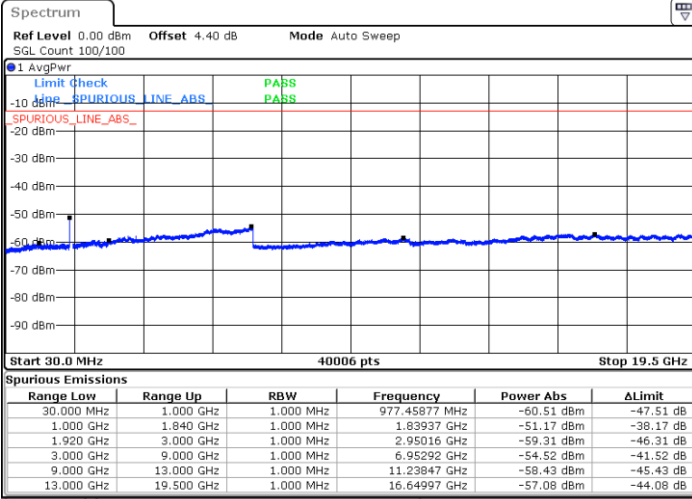
Date: 14.JAN.2021 06:07:07



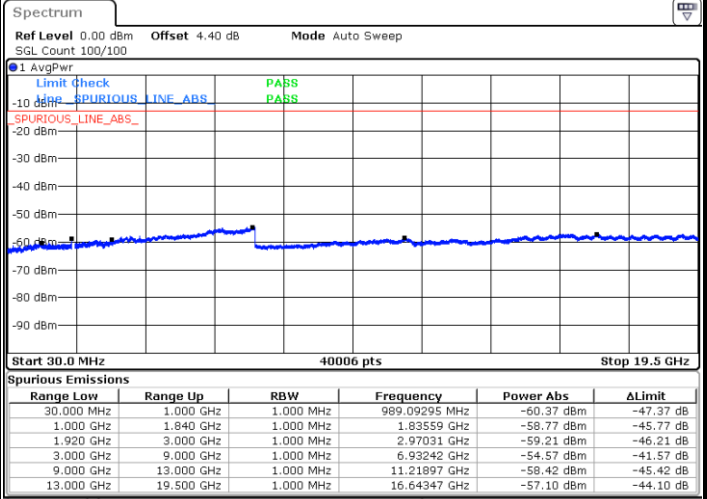
FR1 n25 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

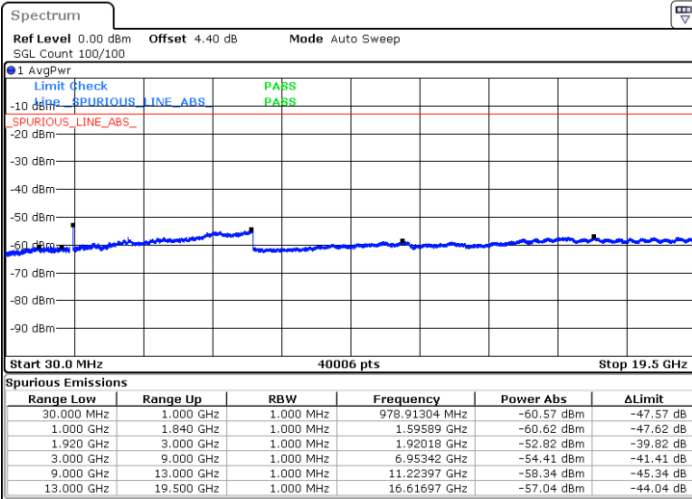


Date: 13.JAN.2021 08:32:15



Date: 13.JAN.2021 07:54:23

Highest Channel / 1RB



Date: 14.JAN.2021 06:08:29



Frequency Stability

Test Conditions		NR n25 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n66 SA

Peak-to-Average Ratio

Mode	FR1 n66 / 5MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	3.86	5.04	5.39	PASS
Middle CH	3.30	3.86	5.01	5.42	
Highest CH	3.42	3.83	4.93	5.48	



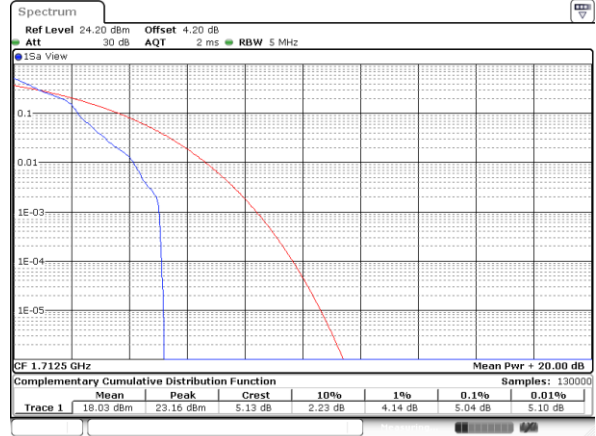
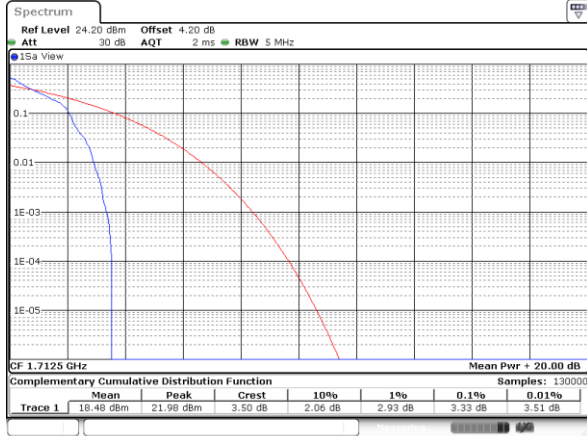
FR1 n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

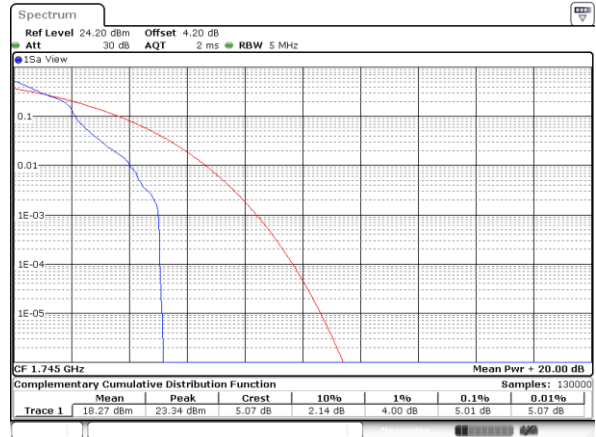
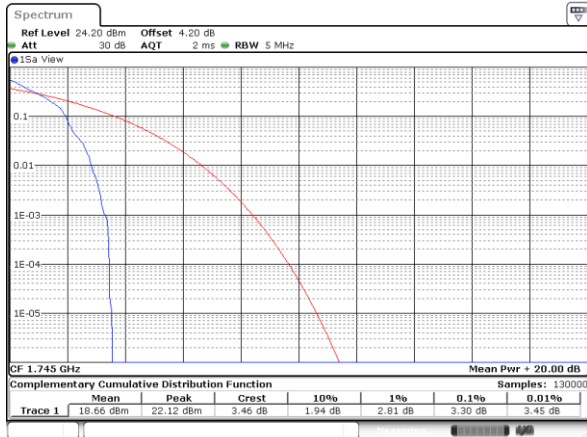


Date: 16_JAN.2021 03:54:56

Date: 16_JAN.2021 03:54:50

Middle Channel / 1 RB

Middle Channel / 1 RB

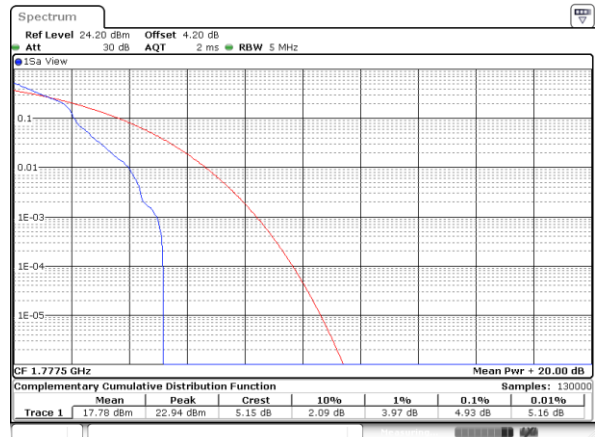
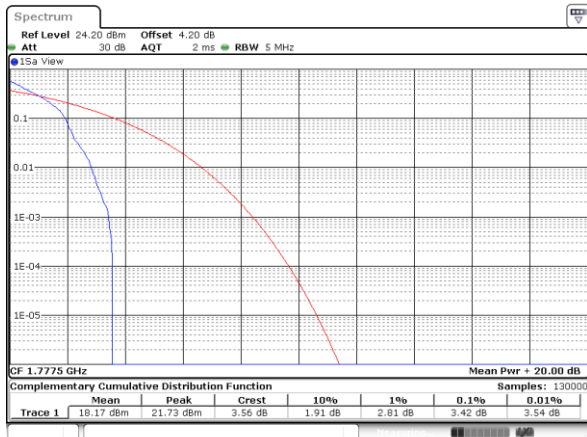


Date: 16_JAN.2021 03:58:04

Date: 16_JAN.2021 03:58:09

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 16_JAN.2021 04:06:21

Date: 16_JAN.2021 04:06:11