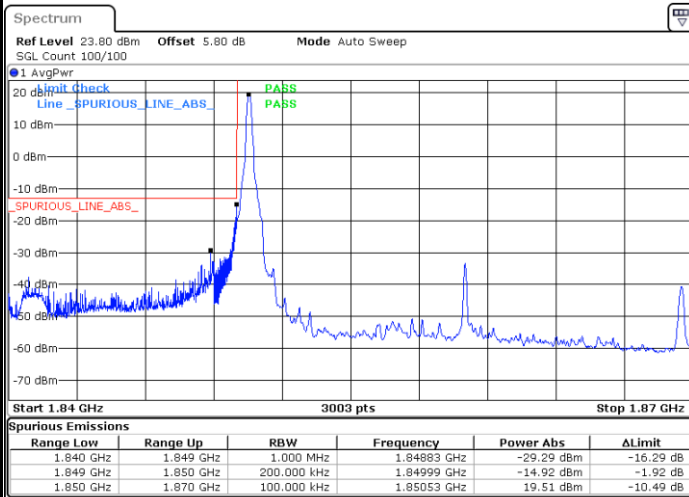


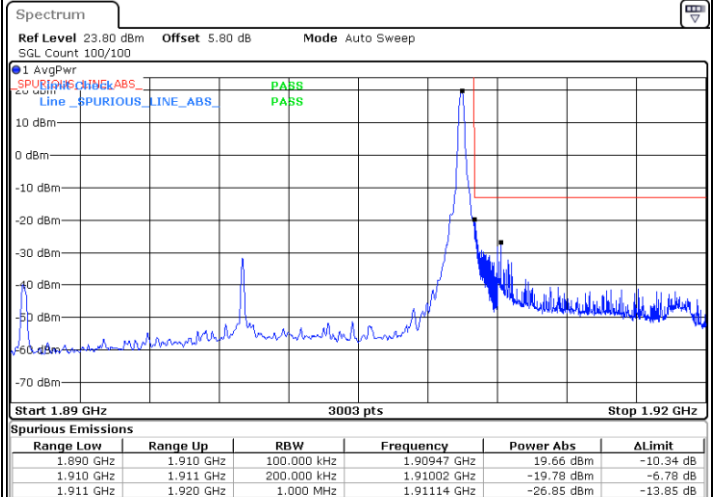


20MHz / 16QAM

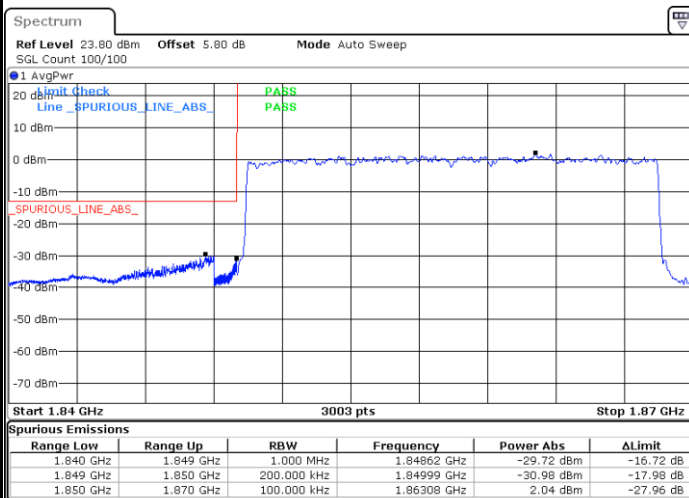
Lowest Band Edge / 1RB0



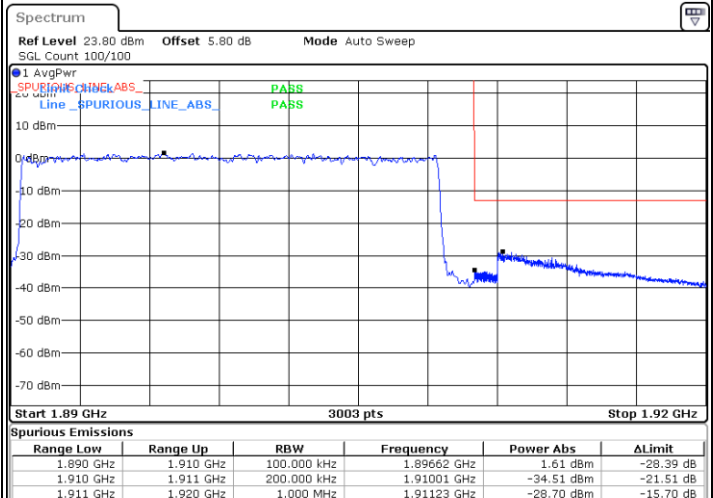
Highest Band Edge / 1RB105



Lowest Band Edge / 100RB0



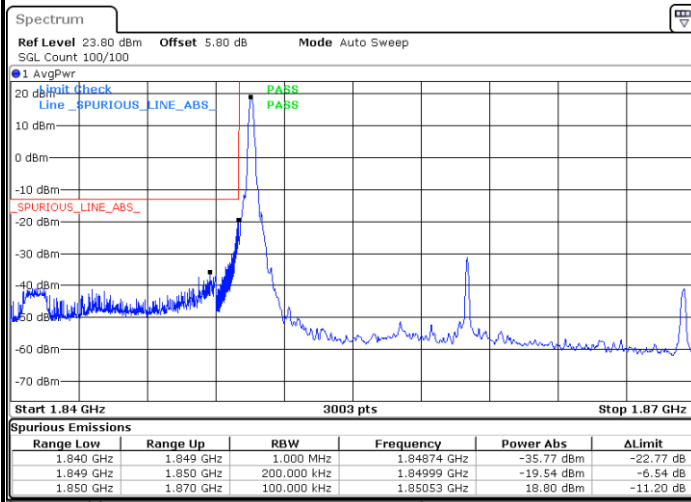
Highest Band Edge / 100RB0



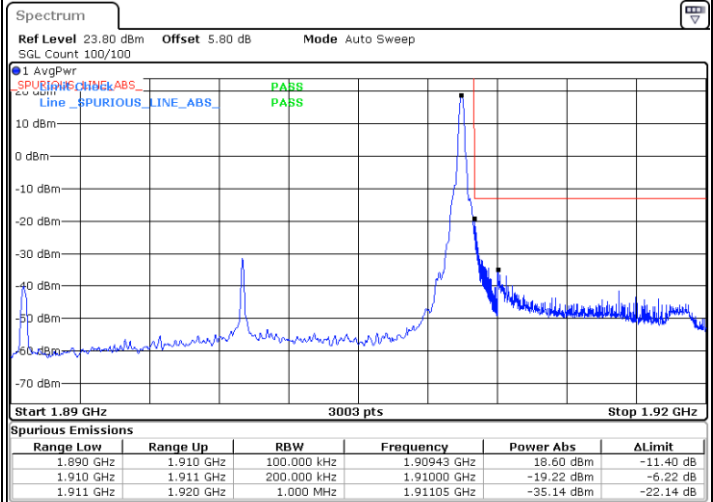


20MHz / 64QAM

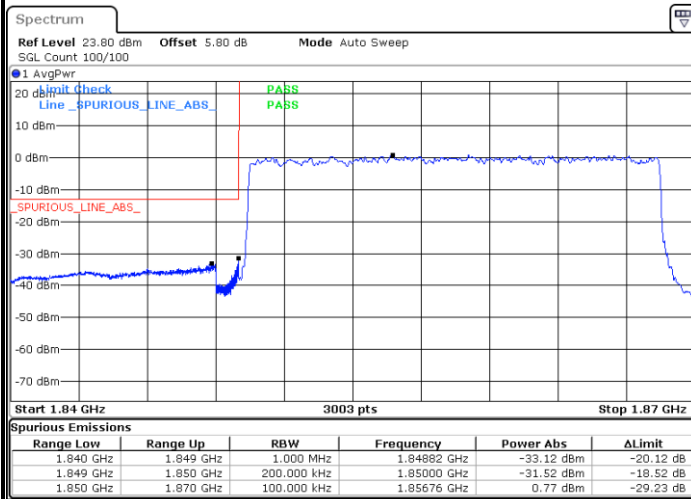
Lowest Band Edge / 1RB0



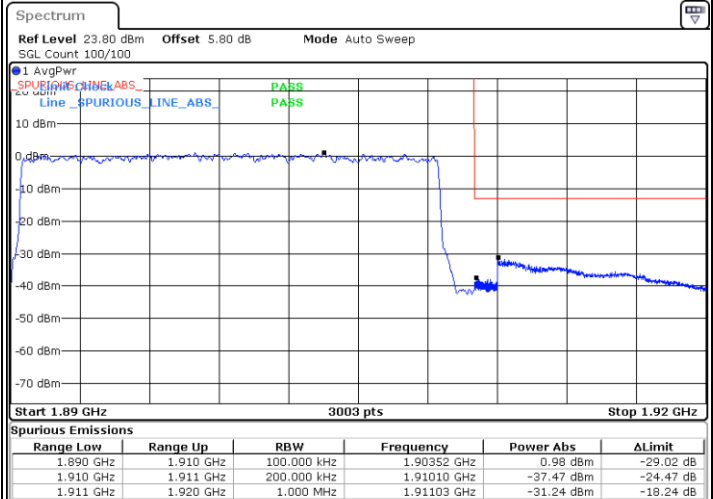
Highest Band Edge / 1RB105



Lowest Band Edge / 100RB0



Highest Band Edge / 100RB0

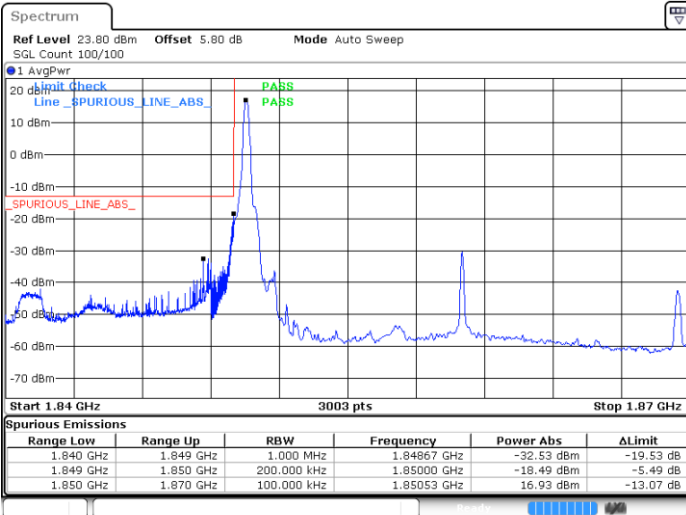




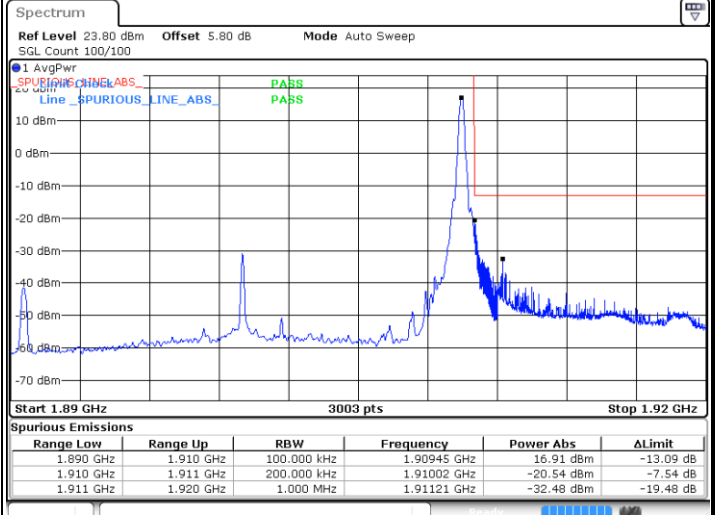
20MHz / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB105



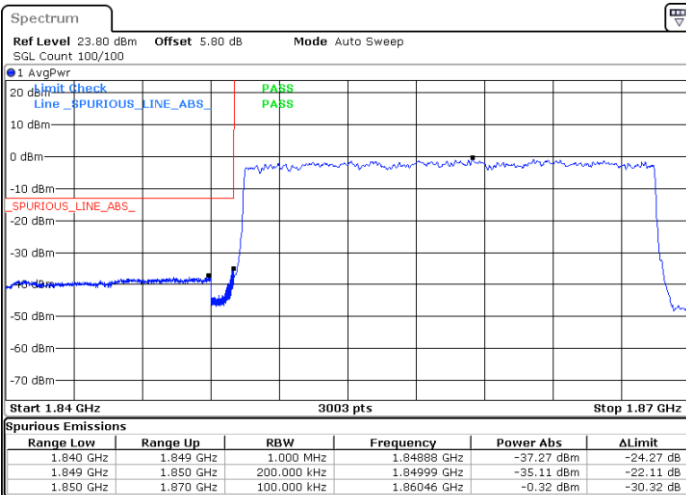
Date: 22 JUN 2020 23:54:02



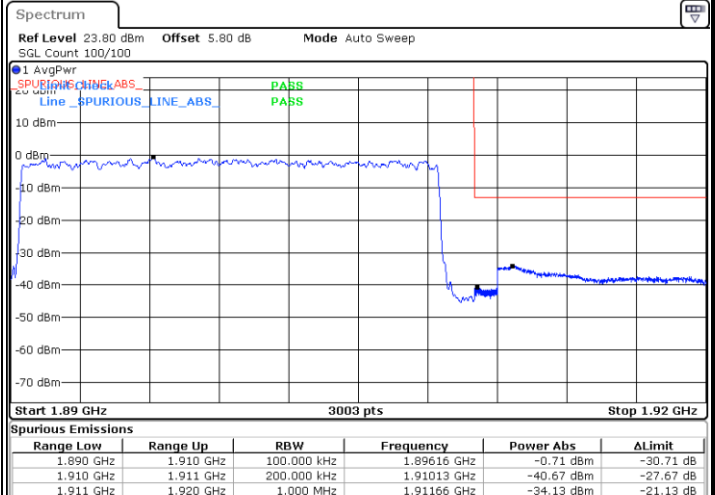
Date: 23 JUN 2020 00:53:00

Lowest Band Edge / 100RB0

Highest Band Edge / 100RB0



Date: 22 JUN 2020 23:48:28



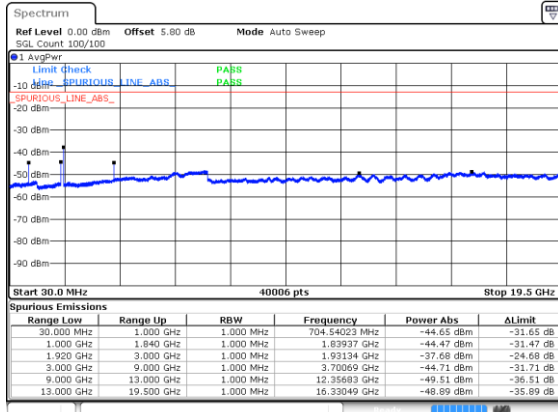
Date: 23 JUN 2020 00:28:57



Conducted Spurious Emission

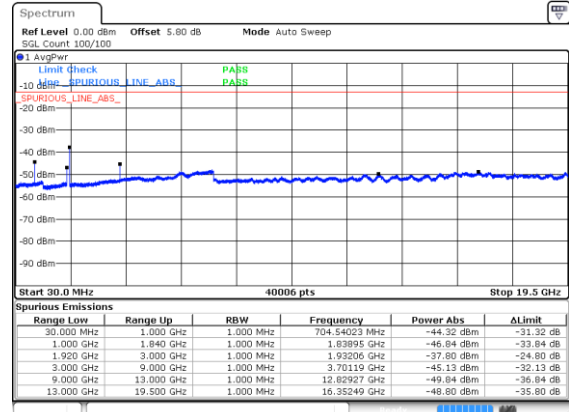
5MHz

Lowest Channel / BPSK



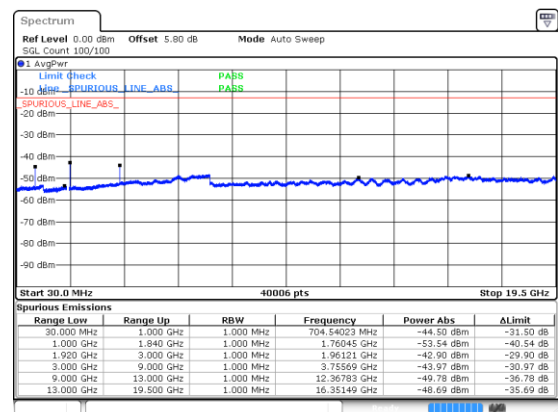
Date: 20_8/1/2020_04:21:33

Lowest Channel / QPSK



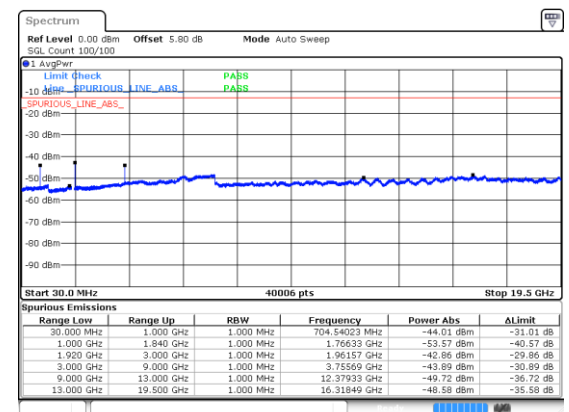
Date: 20_8/1/2020_04:20:46

Middle Channel / BPSK



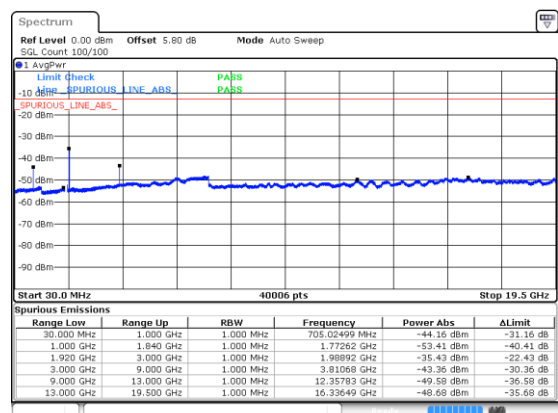
Date: 20_8/1/2020_04:21:33

Middle Channel / QPSK



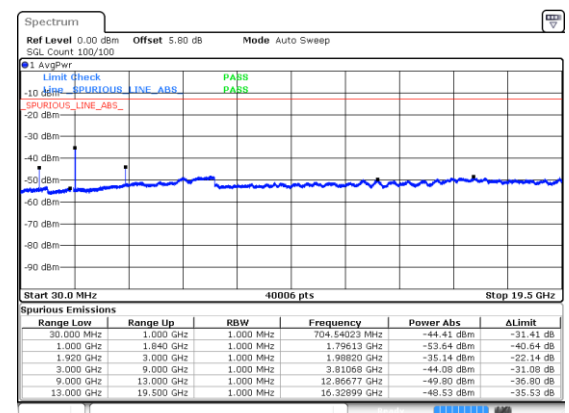
Date: 20_8/1/2020_04:20:46

Highest Channel / BPSK



Date: 20_8/1/2020_04:21:33

Highest Channel / QPSK

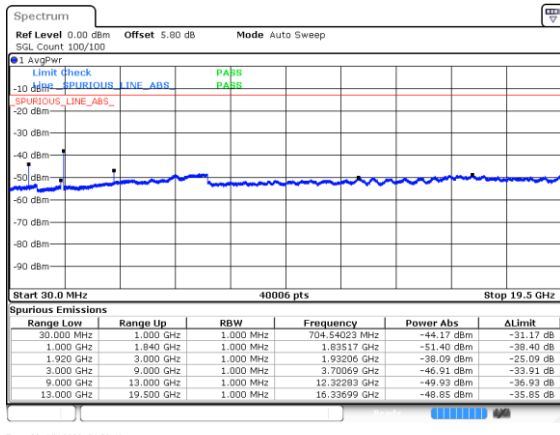


Date: 20_8/1/2020_04:20:46



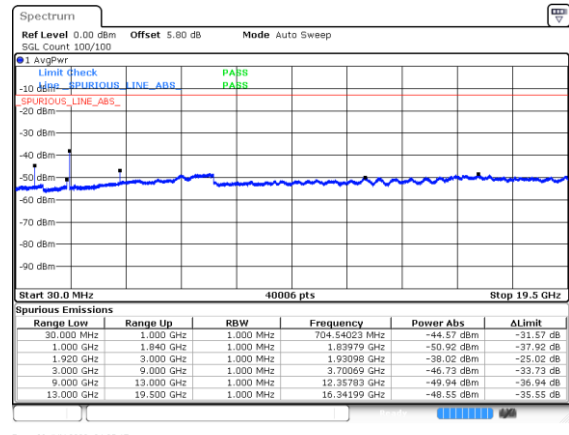
5MHz

Lowest Channel / 16QAM



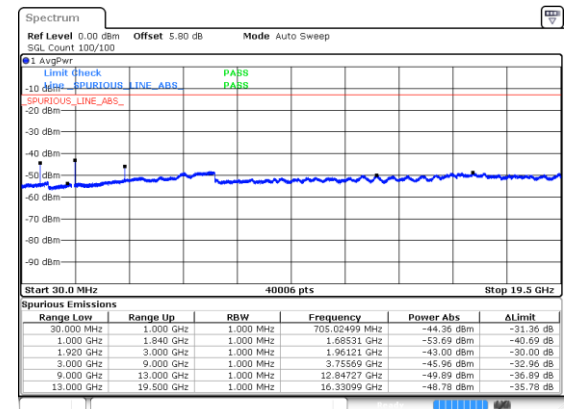
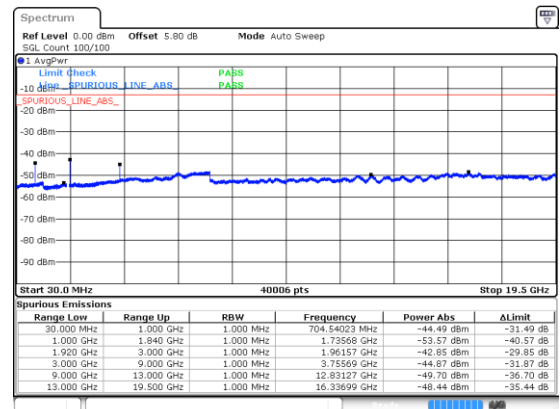
Date: 20_8/1/2020_04:23:48

Lowest Channel / 64QAM

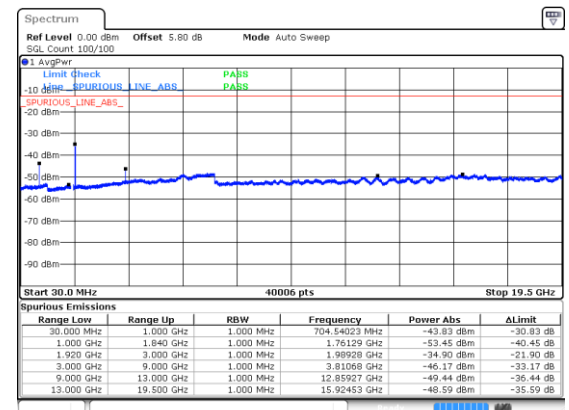
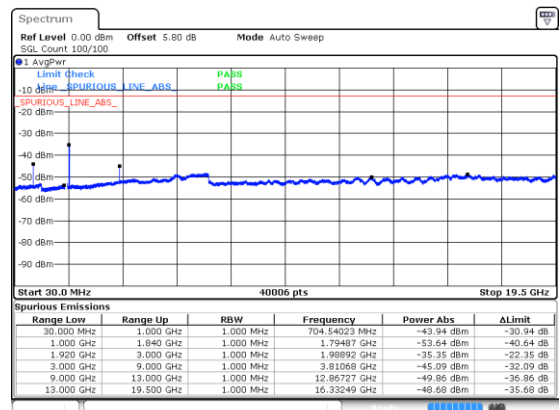


Date: 20_8/1/2020_04:26:13

Middle Channel / 16QAM



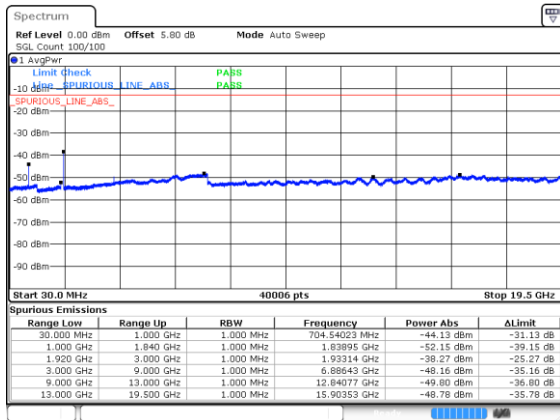
Highest Channel / 16QAM





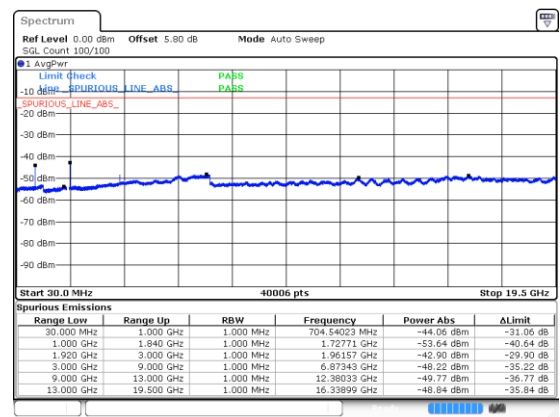
5MHz

Lowest Channel / 256QAM

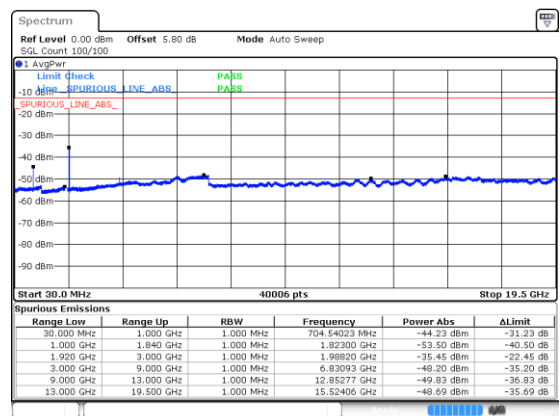


Date: 20. 8. 11 2020, 04:20:33

Middle Channel / 256QAM



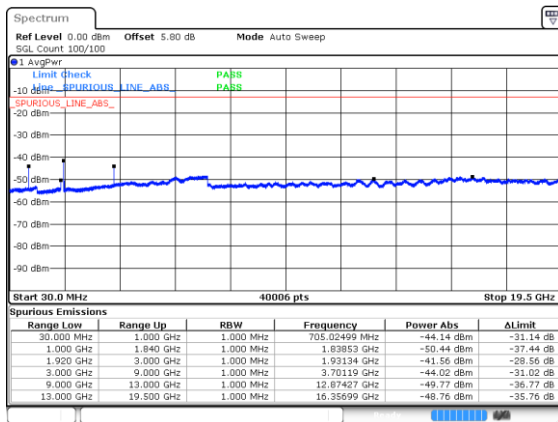
Highest Channel / 256QAM





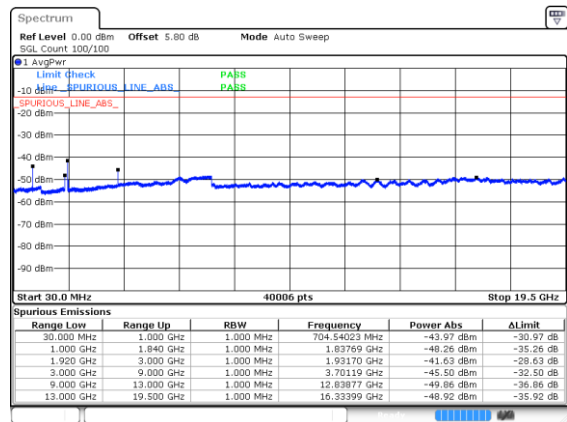
10MHz

Lowest Channel / BPSK



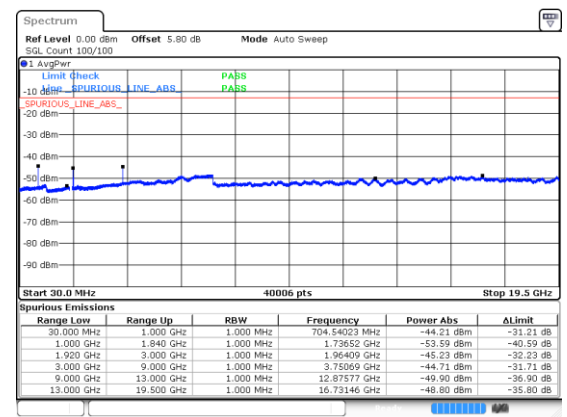
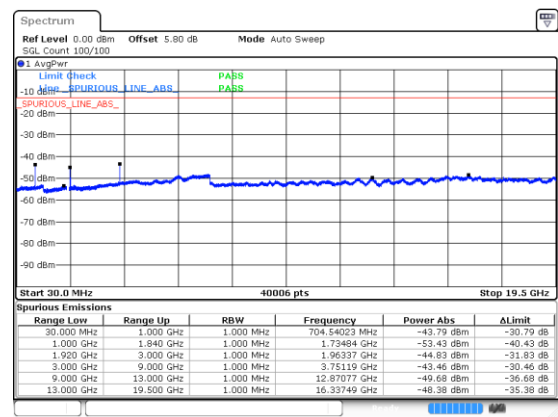
Date: 20_8/1/2020_09:54:35

Lowest Channel / QPSK

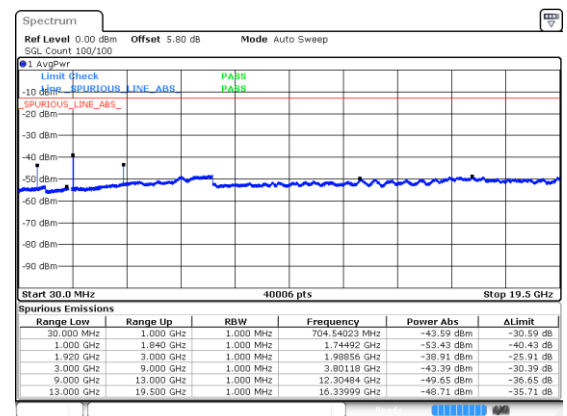
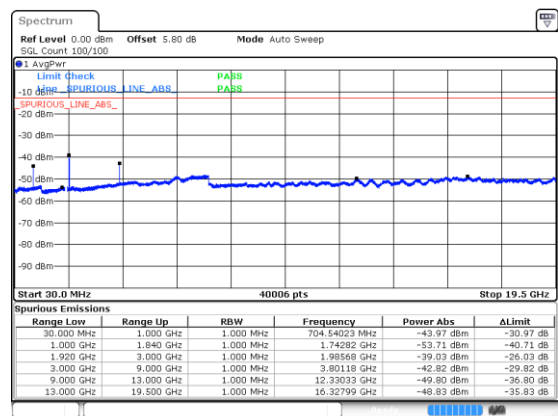


Date: 20_8/1/2020_09:53:23

Middle Channel / BPSK



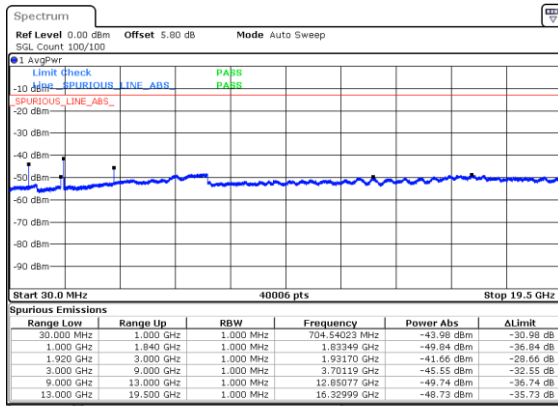
Highest Channel / BPSK





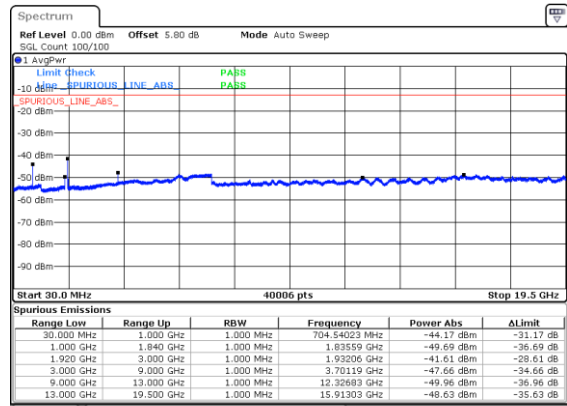
10MHz

Lowest Channel / 16QAM



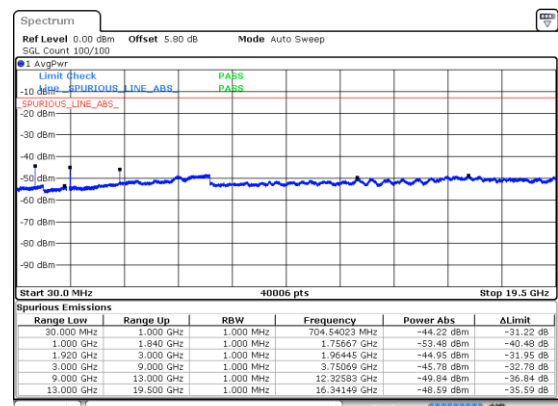
Data: 20_8/1/2020_03:44:35

Lowest Channel / 64QAM

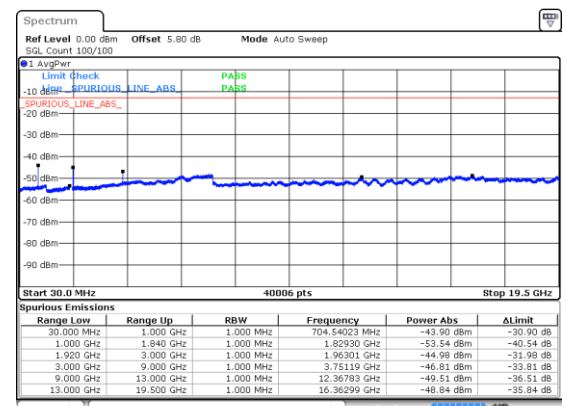


Data: 20_8/1/2020_03:46:30

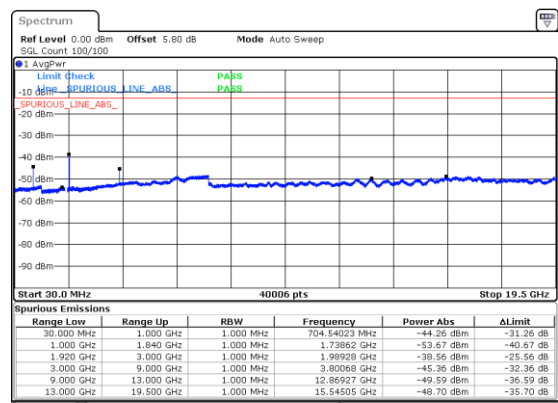
Middle Channel / 16QAM



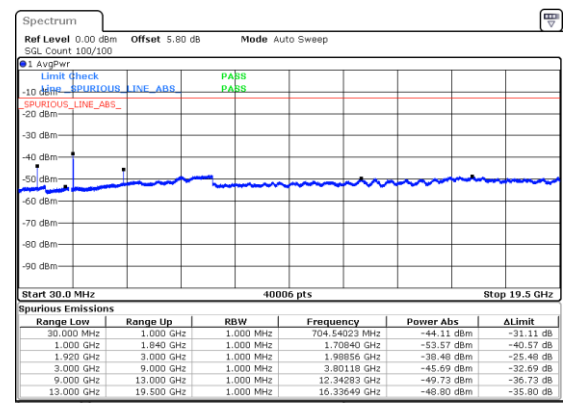
Middle Channel / 64QAM



Highest Channel / 16QAM



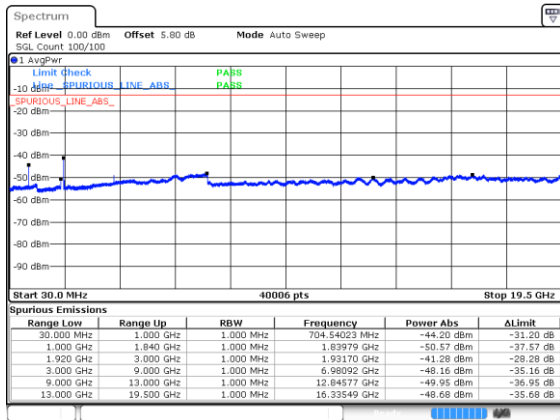
Highest Channel / 64QAM



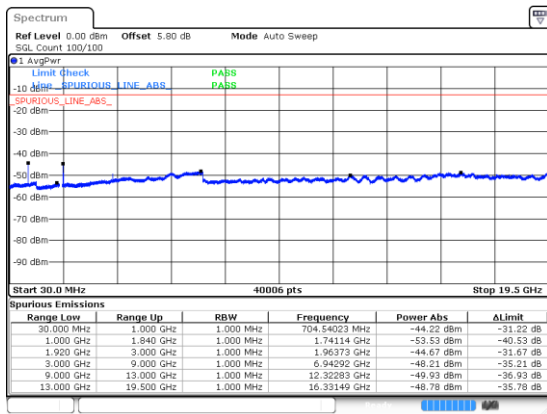


10MHz

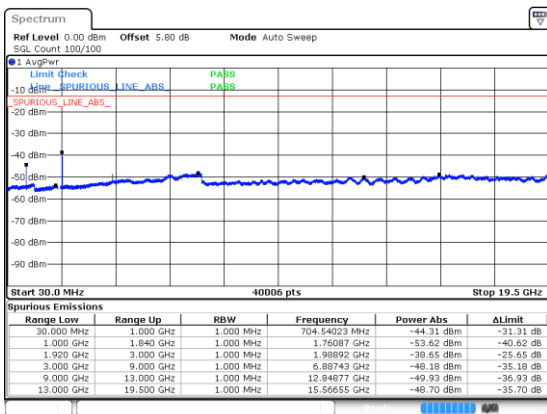
Lowest Channel / 256QAM



Middle Channel / 256QAM



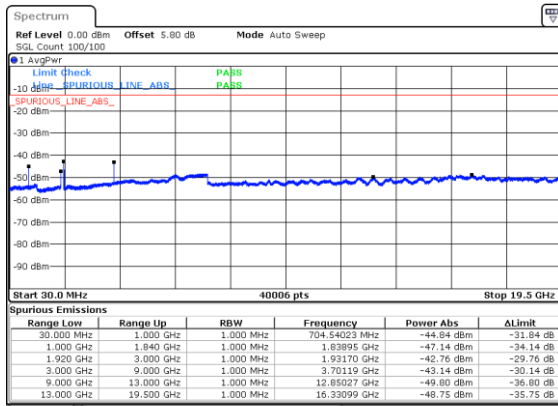
Highest Channel / 256QAM





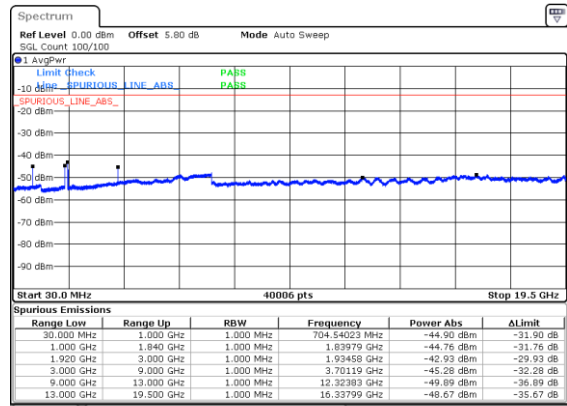
15MHz

Lowest Channel / BPSK



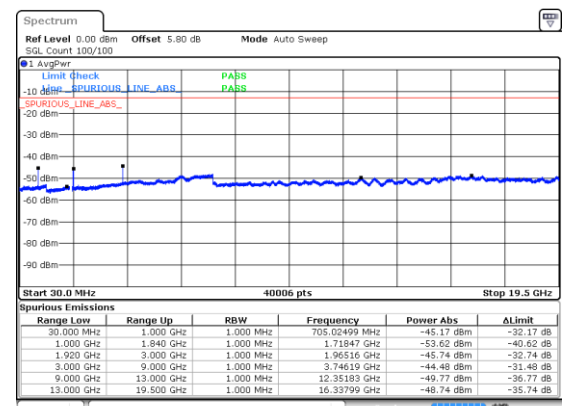
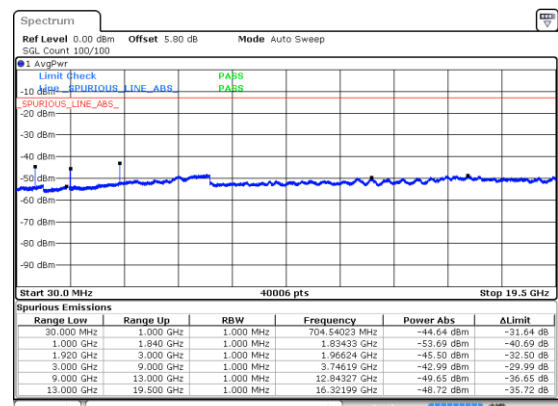
Date: 20_08/2020_04:34:40

Lowest Channel / QPSK

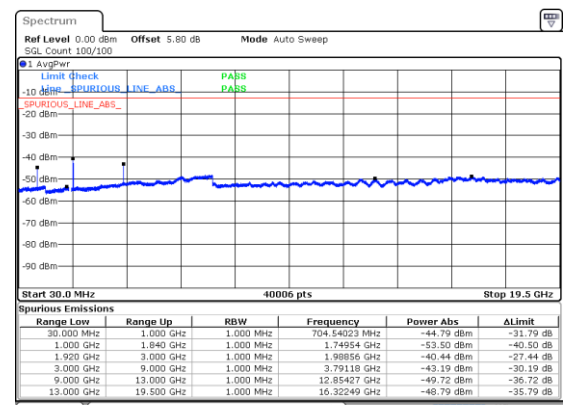
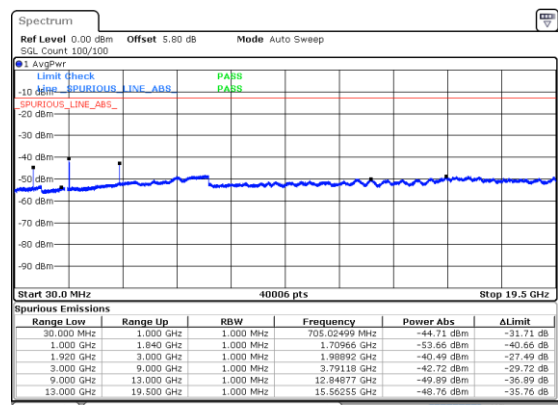


Date: 20_08/2020_04:36:13

Middle Channel / BPSK



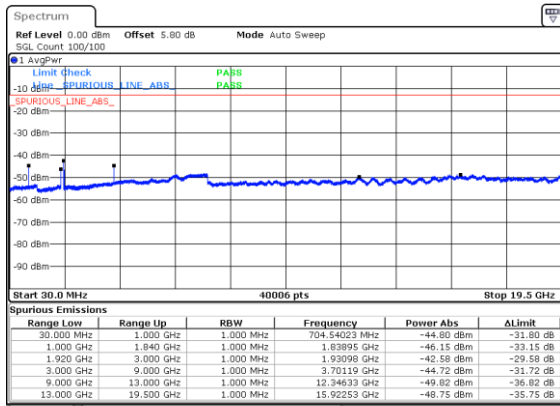
Highest Channel / BPSK





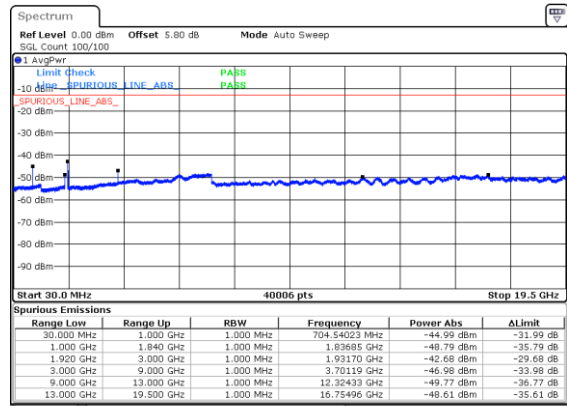
15MHz

Lowest Channel / 16QAM



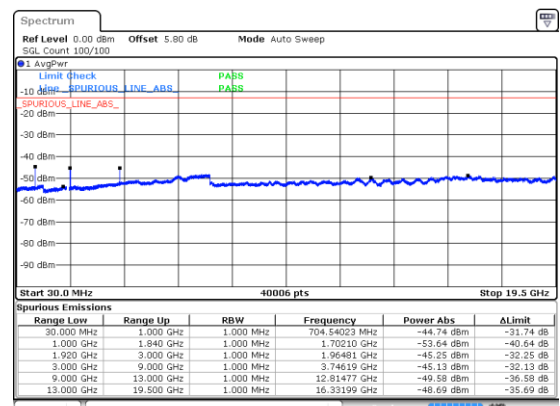
Date: 20_8/1/2020_04:37:33

Lowest Channel / 64QAM

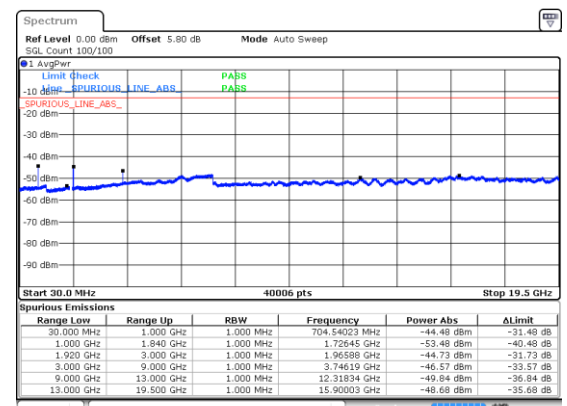


Date: 20_8/1/2020_04:38:30

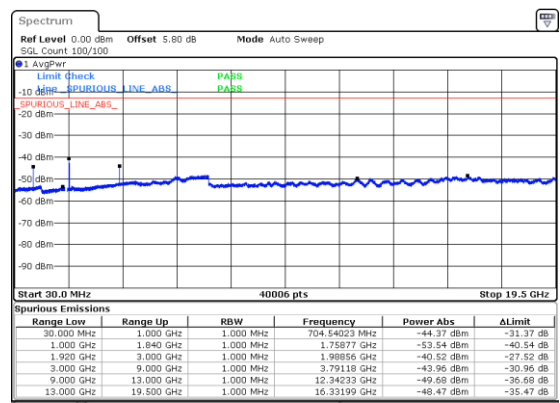
Middle Channel / 16QAM



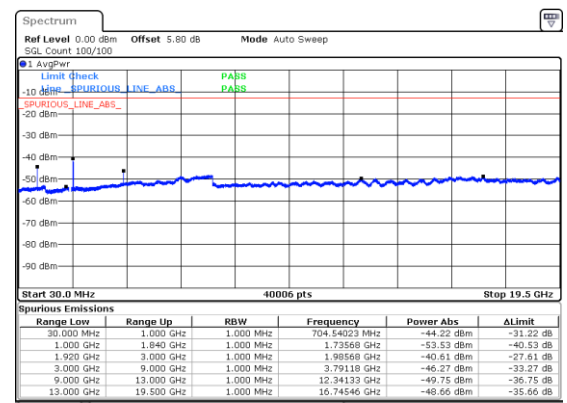
Middle Channel / 64QAM



Highest Channel / 16QAM



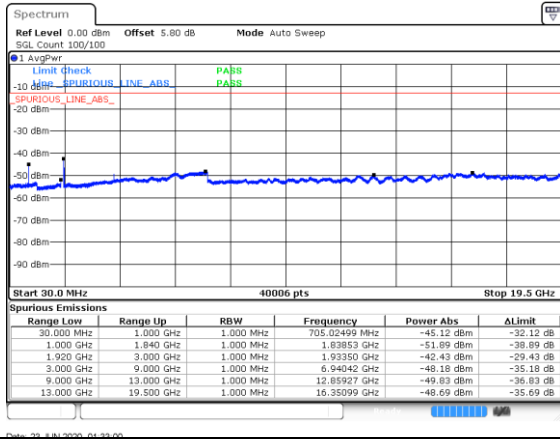
Highest Channel / 64QAM



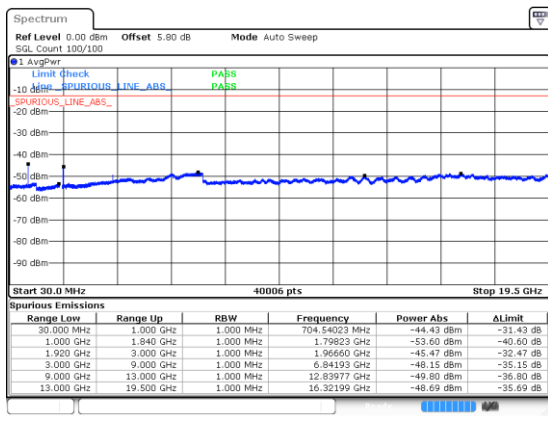


15MHz

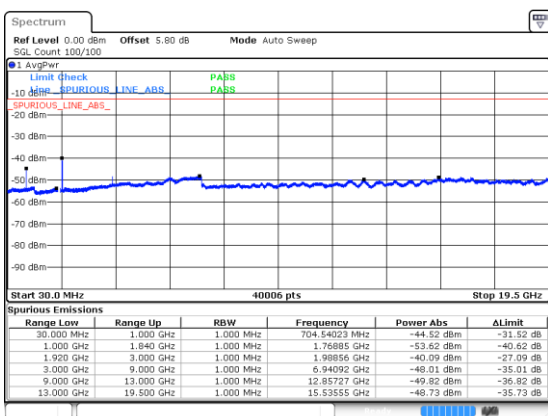
Lowest Channel / 256QAM



Middle Channel / 256QAM



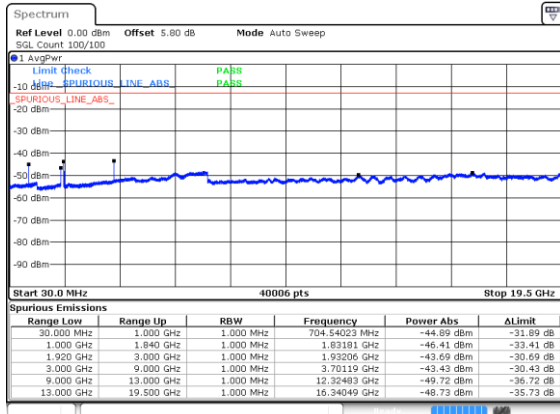
Highest Channel / 256QAM





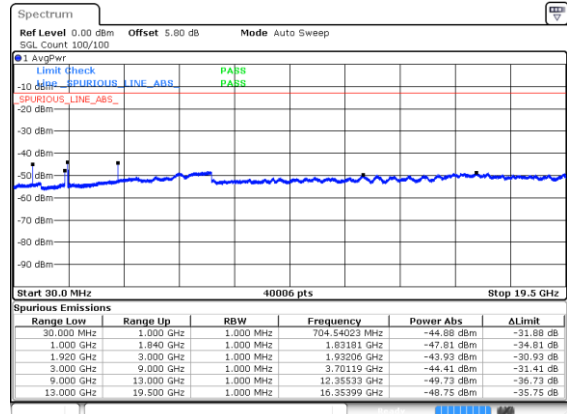
N2 / 20MHz

Lowest Channel / BPSK



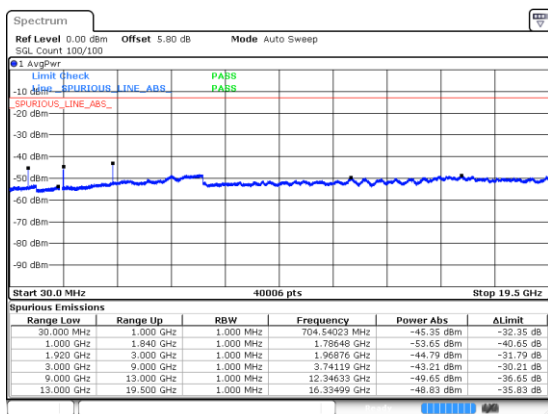
Data: 22.8.11.2020, 22.53.33

Lowest Channel / QPSK



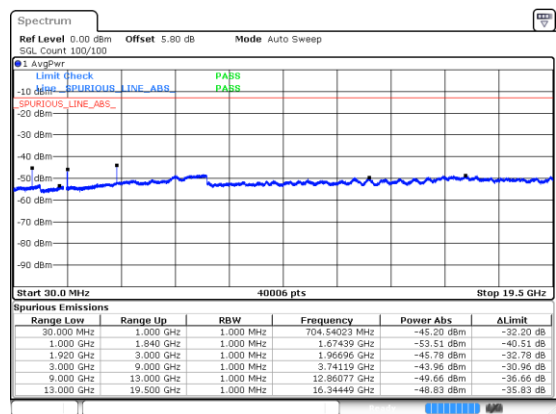
Data: 22.8.11.2020, 22.56.36

Middle Channel / BPSK



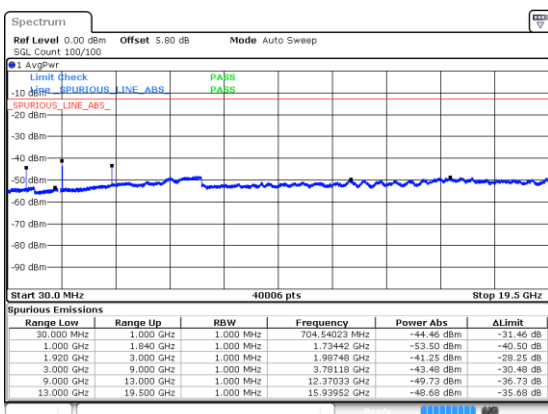
Data: 22.8.11.2020, 22.53.33

Middle Channel / QPSK



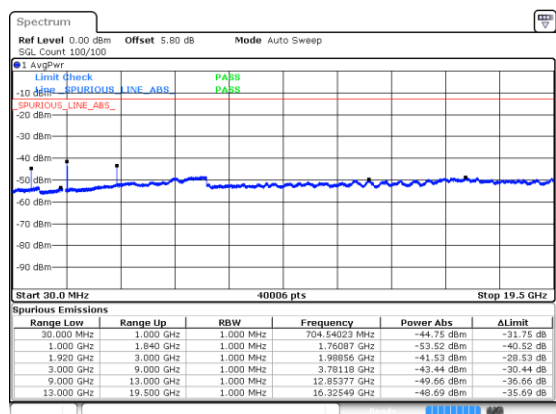
Data: 22.8.11.2020, 22.56.36

Highest Channel / BPSK



Data: 22.8.11.2020, 22.53.33

Highest Channel / QPSK

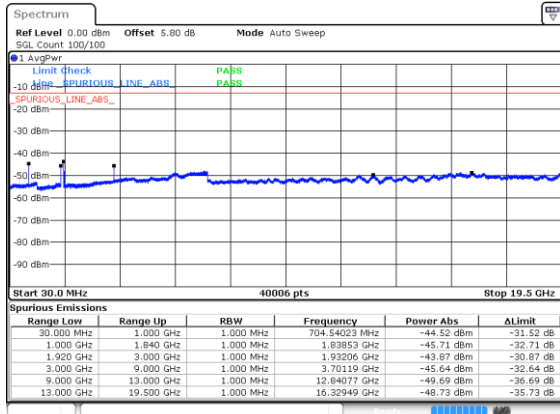


Data: 22.8.11.2020, 22.56.36

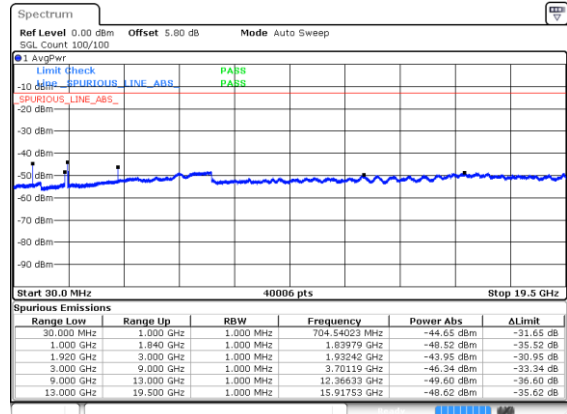


N2 / 20MHz

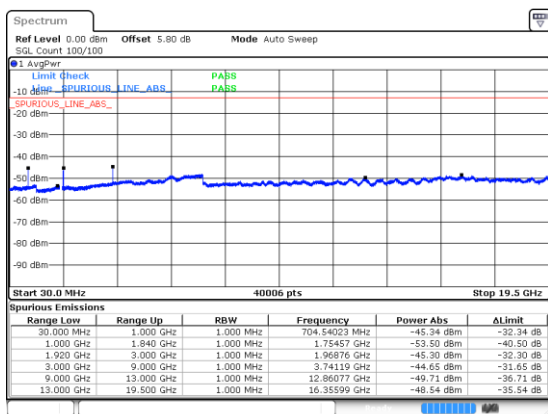
Lowest Channel / 16QAM



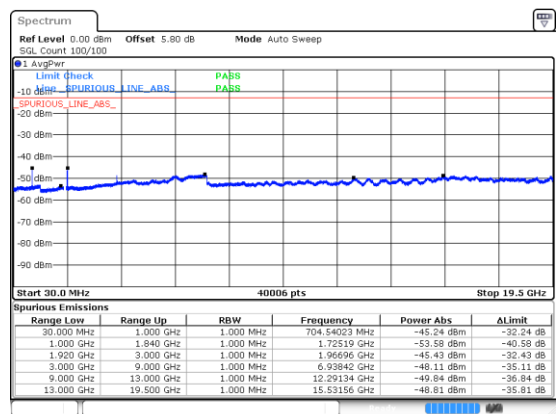
Lowest Channel / 64QAM



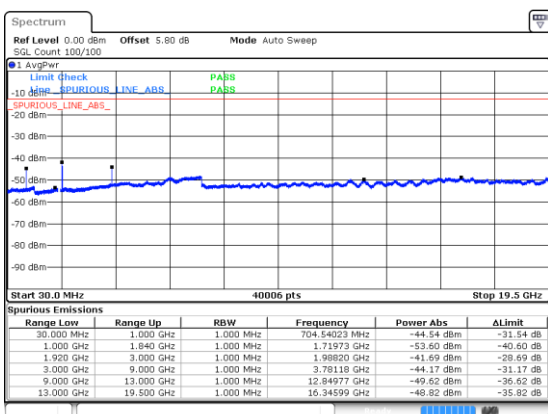
Middle Channel / 16QAM



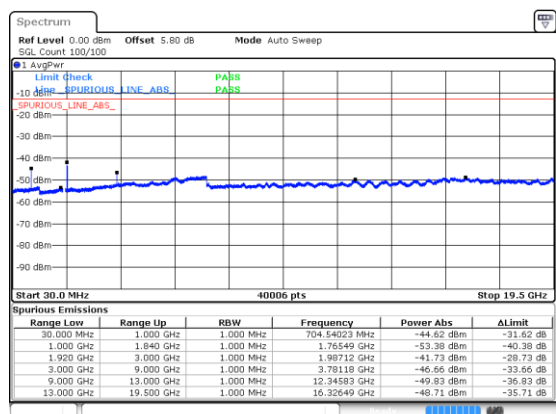
Middle Channel / 64QAM



Highest Channel / 16QAM



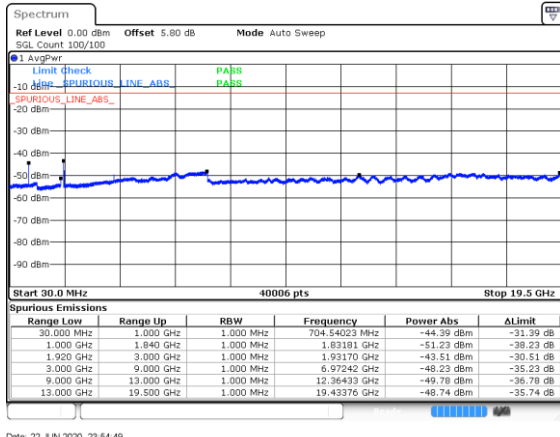
Highest Channel / 64QAM



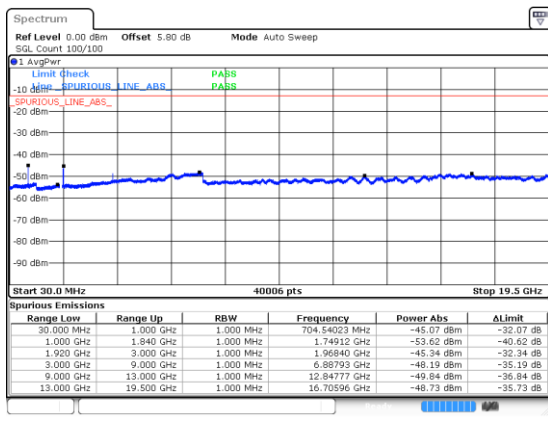


N2 / 20MHz

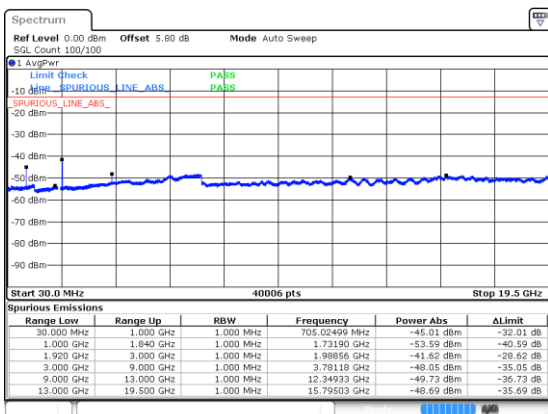
Lowest Channel / 256QAM



Middle Channel / 256QAM



Highest Channel / 256QAM



Frequency Stability

Test Conditions		n2 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0004	

Note:

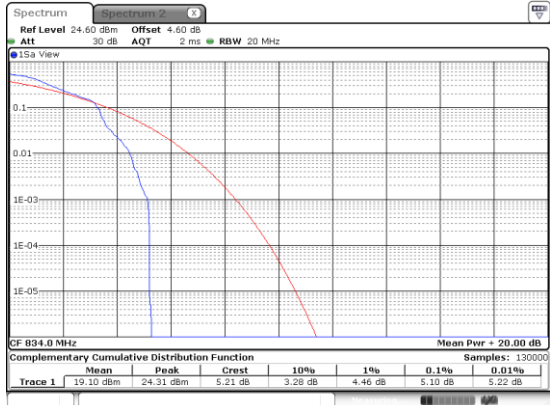
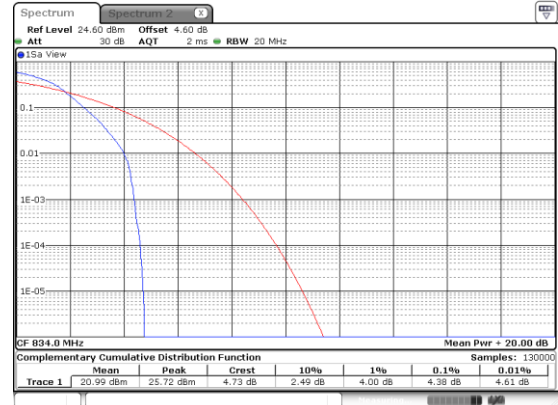
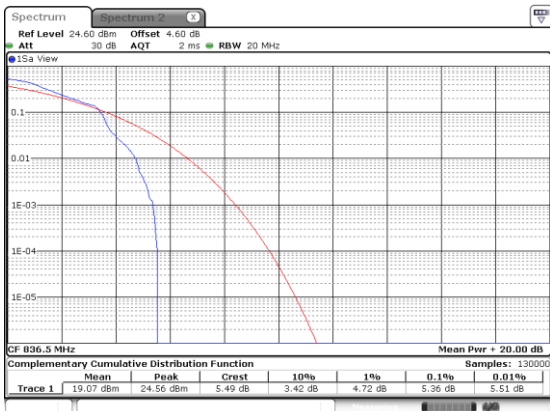
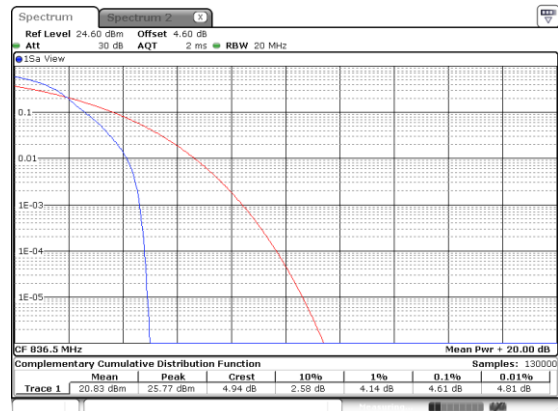
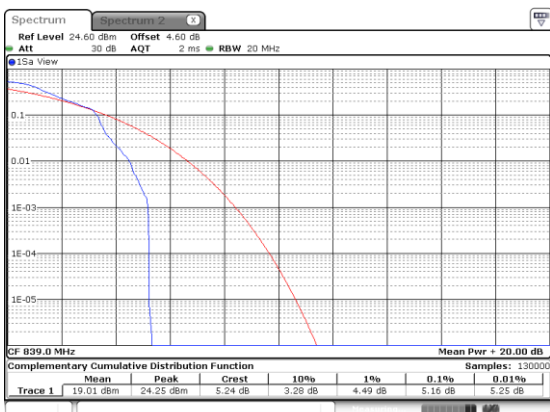
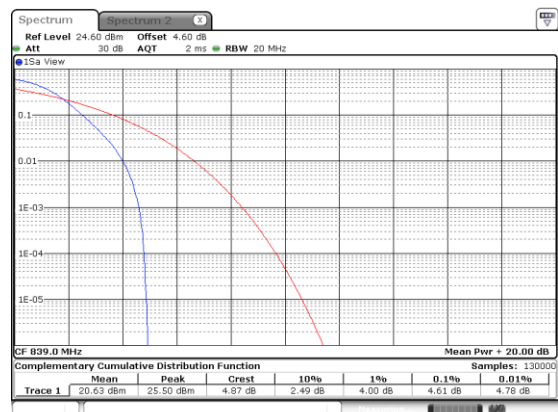
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



5G NR n5

Peak-to-Average Ratio

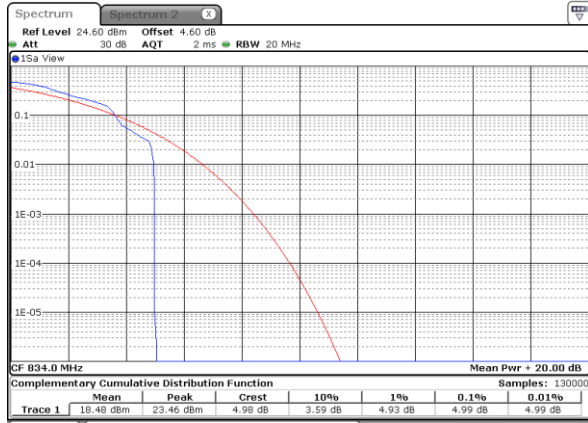
Mode	N5 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.99	5.36	5.91	6.38	PASS
Middle CH	4.84	5.30	5.77	6.43	
Highest CH	4.81	5.33	5.74	6.43	
Mode	N5 / 20MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.58	6.81	7.30	7.45	PASS
Middle CH	6.67	6.84	7.42	7.39	
Highest CH	6.52	6.87	7.36	7.45	
Mode	N5 / 20MHz				
Mod.	BPSK				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.10	4.38			PASS
Middle CH	5.36	4.61			
Highest CH	5.16	4.61			

N5 20MHz / BPSK
Lowest Channel / 1RB0

Lowest Channel / 100RB0

Middle Channel / 1RB0

Middle Channel / 100RB0

Highest Channel / 1RB0

Highest Channel / 100RB0




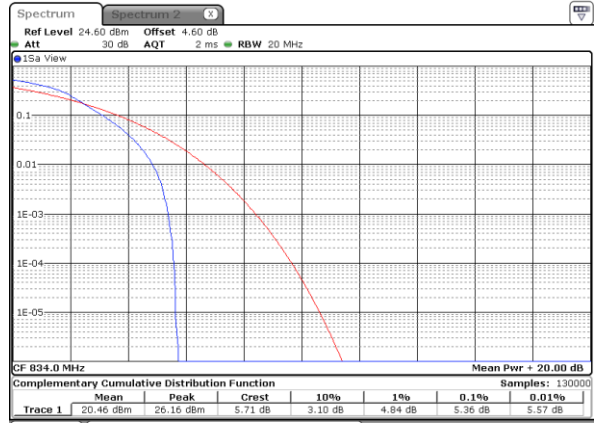
N5 20MHz / QPSK

Lowest Channel / 1RB0



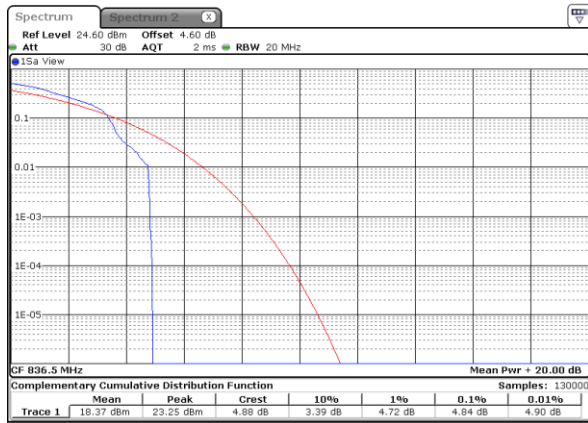
Date: 25 JUN 2020 22:34:45

Lowest Channel / 100RB0



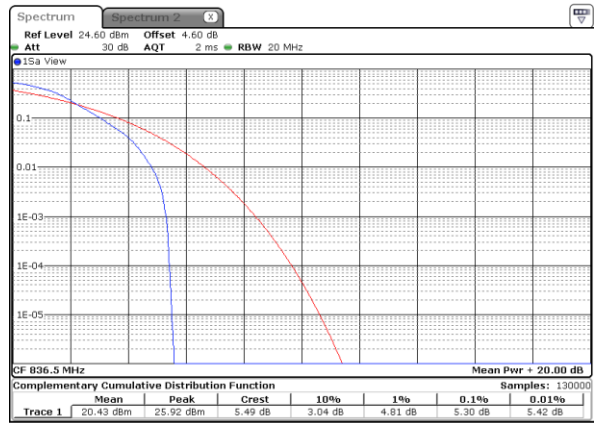
Date: 25 JUN 2020 22:04:20

Middle Channel / 1RB0



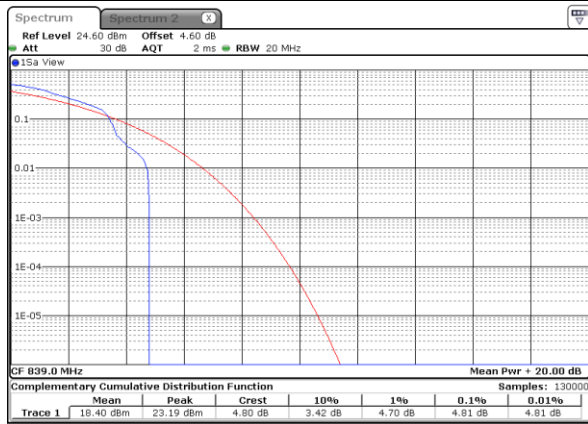
Date: 25 JUN 2020 22:41:59

Middle Channel / 100RB0



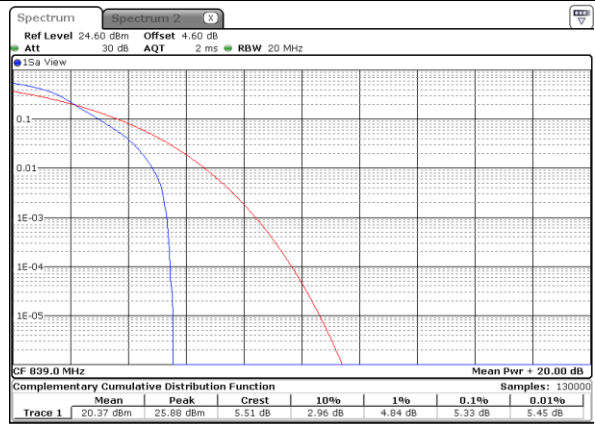
Date: 25 JUN 2020 22:46:23

Highest Channel / 1RB0



Date: 25 JUN 2020 23:01:19

Highest Channel / 100RB0

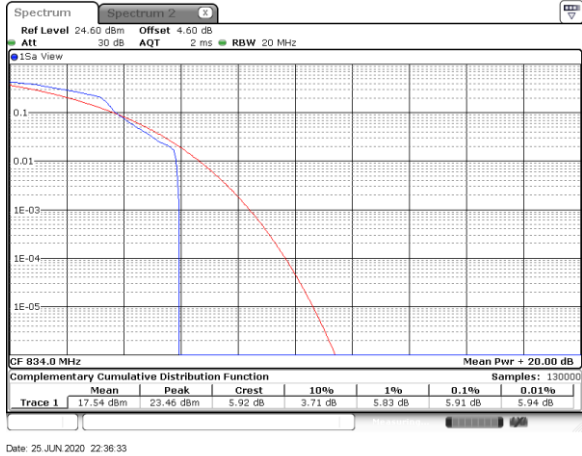


Date: 25 JUN 2020 22:51:54

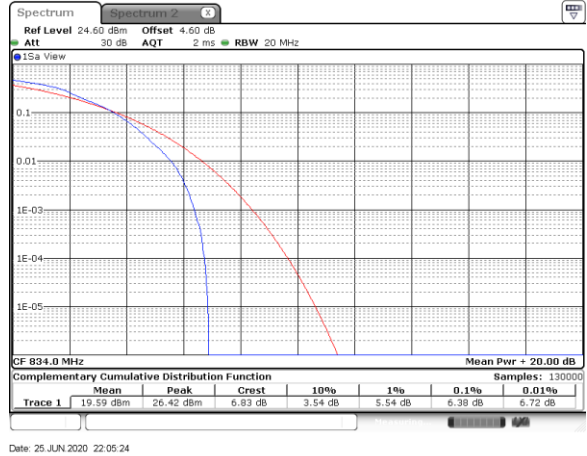


N5 20MHz / 16QAM

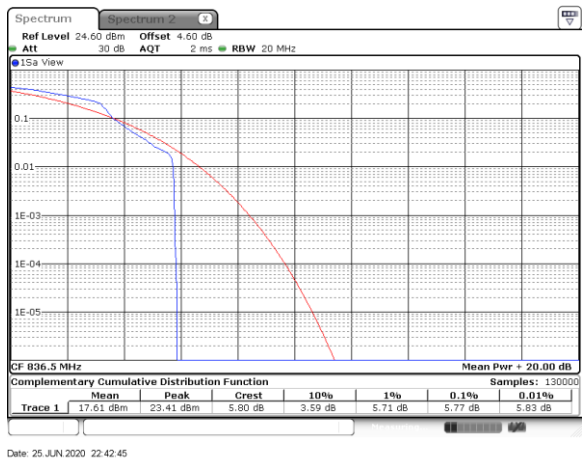
Lowest Channel / 1RB0



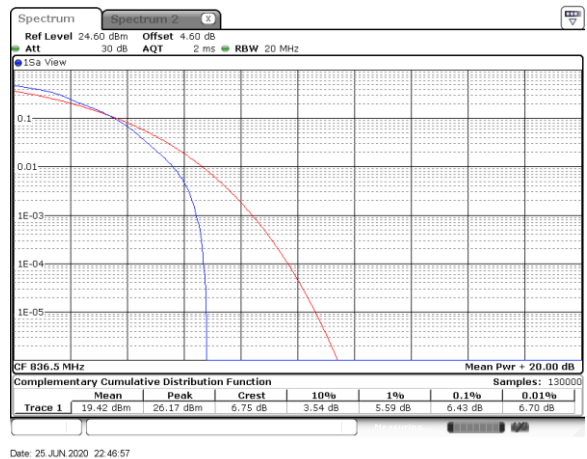
Lowest Channel / 100RB0



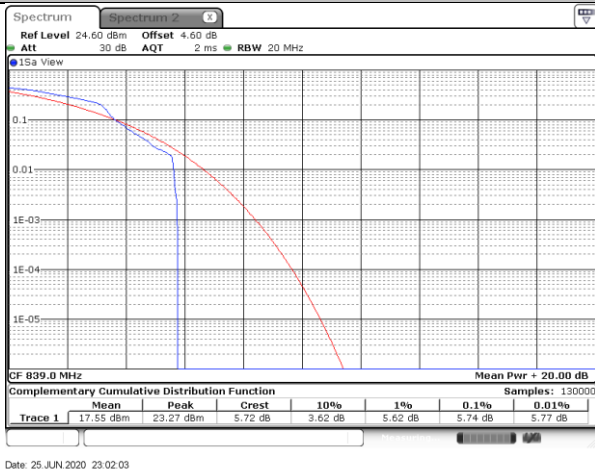
Middle Channel / 1RB0



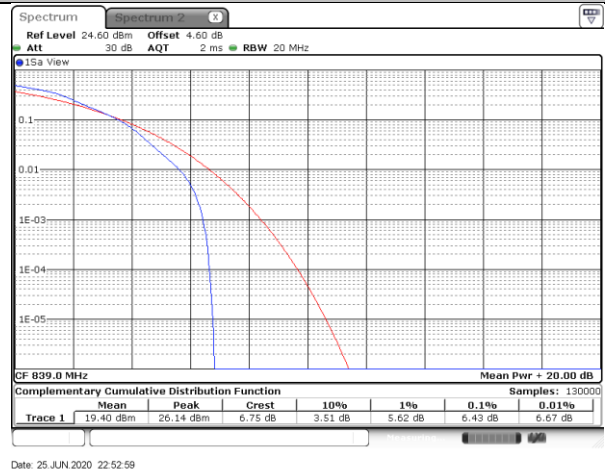
Middle Channel / 100RB0

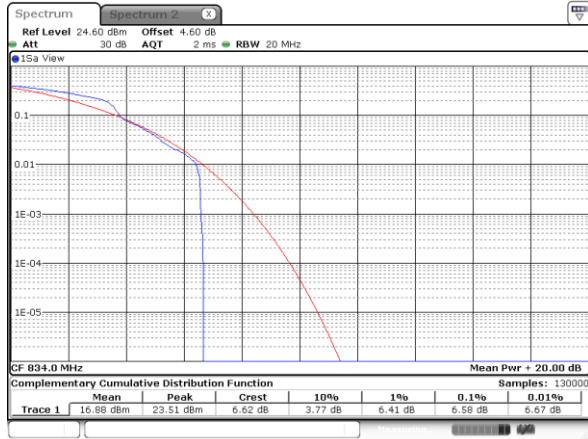


Highest Channel / 1RB0

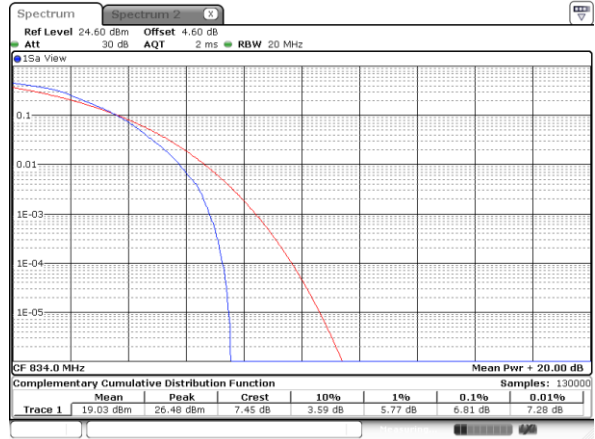


Highest Channel / 100RB0

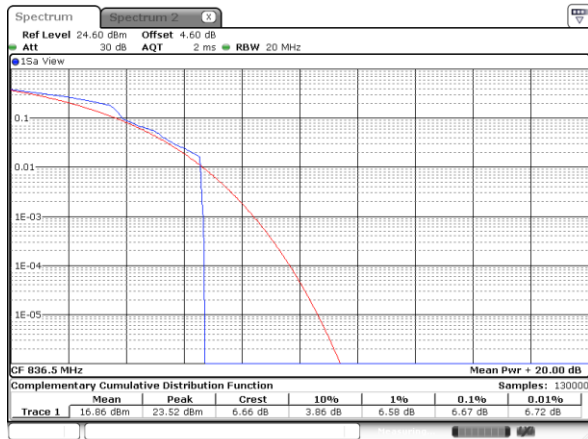


N5 20MHz / 64QAM
Lowest Channel / 1RB0


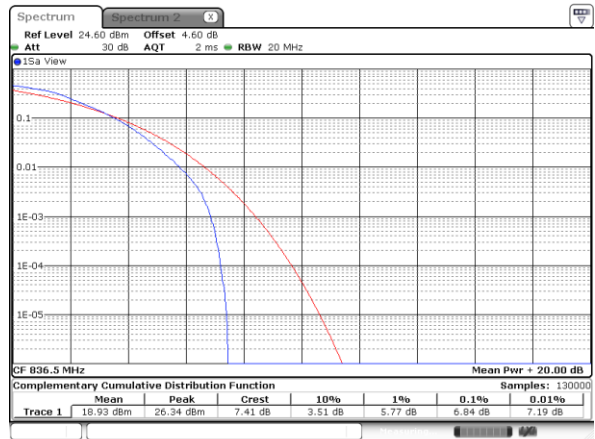
Date: 25 JUN 2020 22:37:51

Lowest Channel / 100RB0


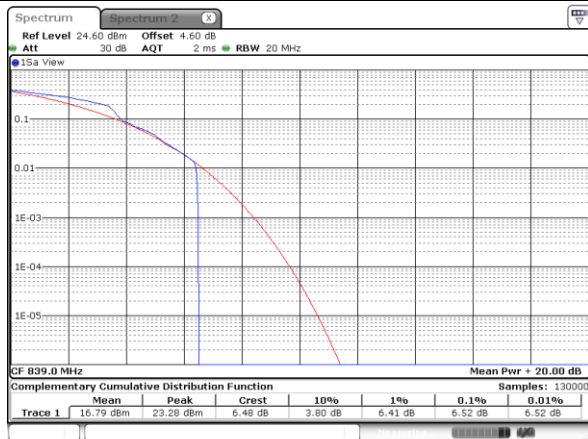
Date: 25 JUN 2020 22:06:29

Middle Channel / 1RB0


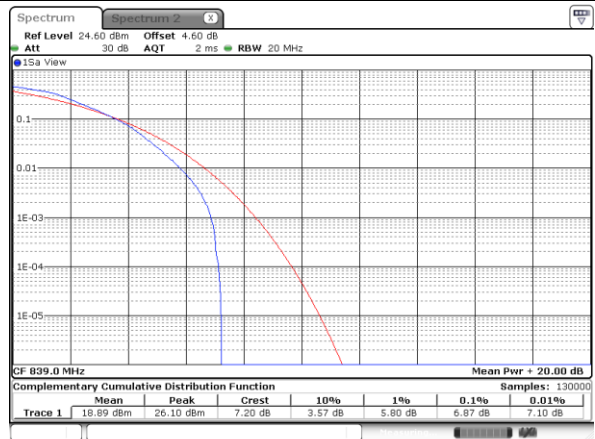
Date: 25 JUN 2020 22:43:31

Middle Channel / 100RB0


Date: 25 JUN 2020 22:47:29

Highest Channel / 1RB0


Date: 25 JUN 2020 23:02:47

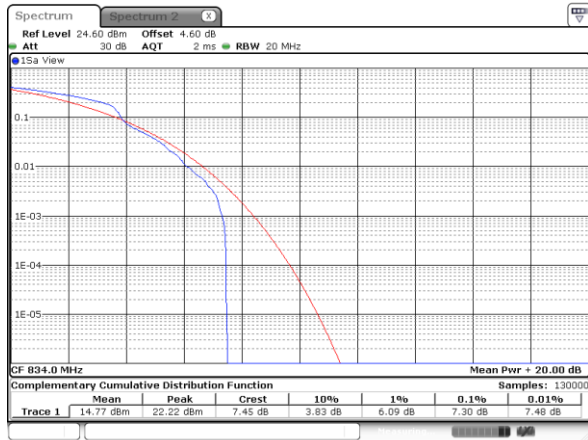
Highest Channel / 100RB0


Date: 25 JUN 2020 22:54:07



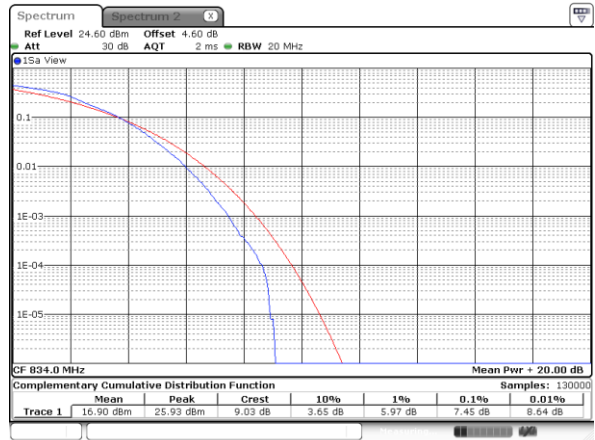
N5 20MHz / 256QAM

Lowest Channel / 1RB0



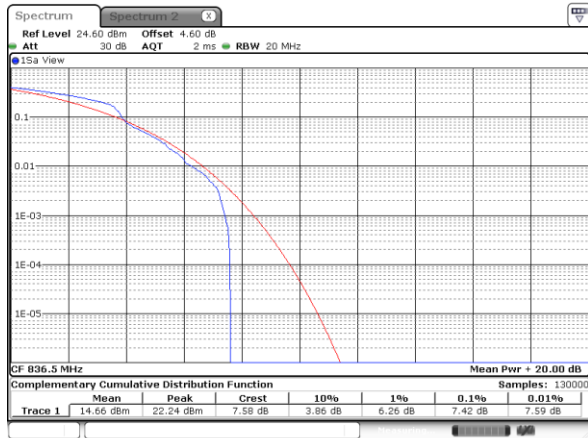
Date: 25 JUN 2020 22:08:31

Lowest Channel / 100RB0



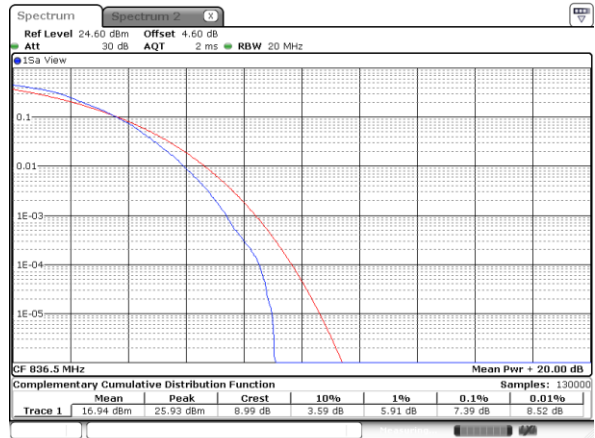
Date: 25 JUN 2020 22:02:10

Middle Channel / 1RB0



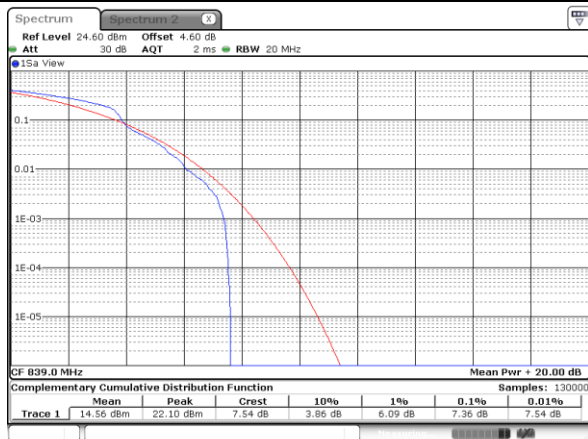
Date: 25 JUN 2020 22:40:54

Middle Channel / 100RB0



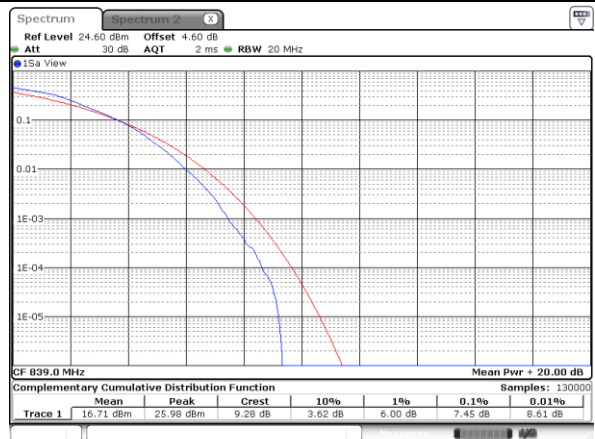
Date: 25 JUN 2020 22:44:27

Highest Channel / 1RB0



Date: 25 JUN 2020 23:00:20

Highest Channel / 100RB0



Date: 25 JUN 2020 22:49:48

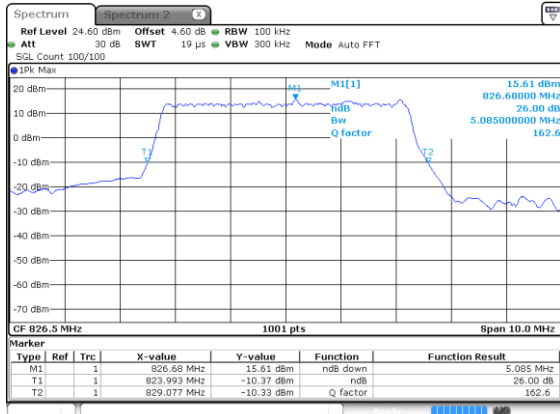
**26dB Bandwidth**

Mode	N5 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.175	5.005	9.71	9.73	14.386	14.595	20.06	20.14
Middle CH	5.225	5.015	9.79	9.65	14.356	14.266	20.10	20.14
Highest CH	4.905	5.035	9.85	9.71	14.416	14.386	20.22	20.14
Mode	N5 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.945	5.115	9.79	9.67	14.476	14.116	20.10	20.14
Middle CH	5.135	5.305	9.75	9.75	14.356	14.176	20.14	20.14
Highest CH	5.105	4.905	9.81	9.81	14.386	14.446	20.22	20.22
Mode	N5 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	BPSK		BPSK		BPSK		BPSK	
Lowest CH	5.085		9.99		14.296		20.02	
Middle CH	5.115		10.03		14.296		20.14	
Highest CH	5.005		9.99		14.505		20.22	

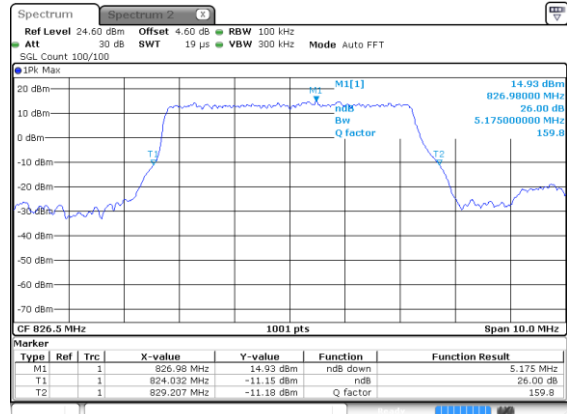


5MHz

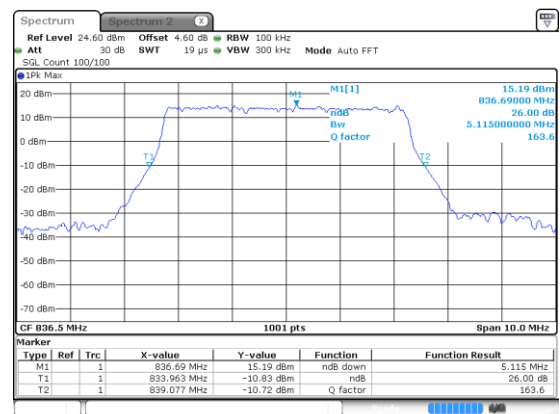
Lowest Channel / BPSK



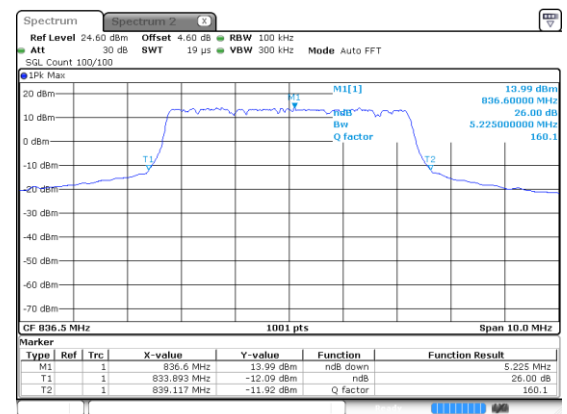
Lowest Channel / QPSK



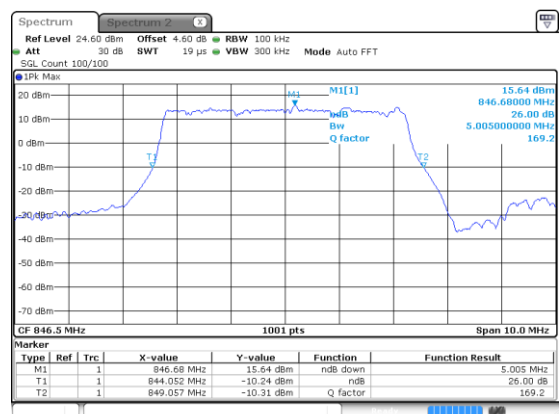
Middle Channel / BPSK



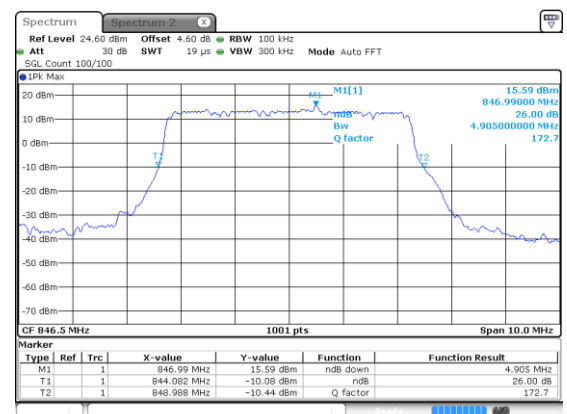
Middle Channel / QPSK



Highest Channel / BPSK



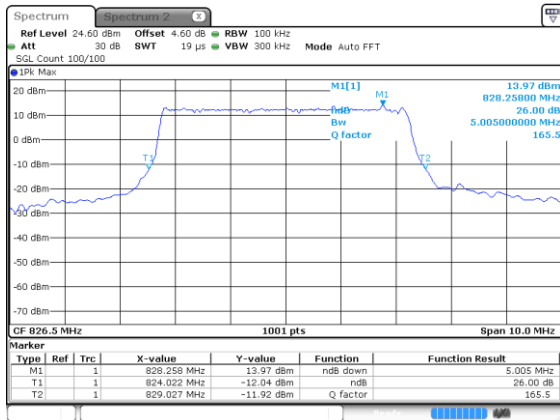
Highest Channel / QPSK





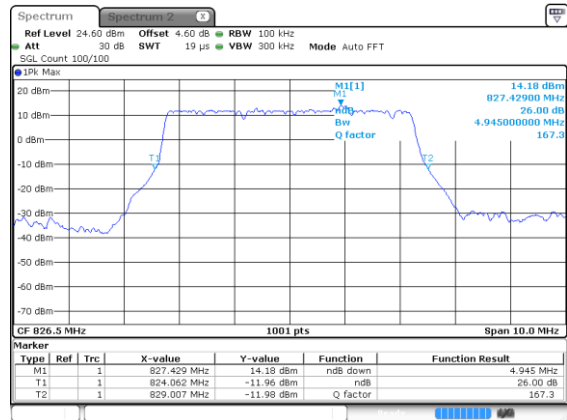
5MHz

Lowest Channel / 16QAM



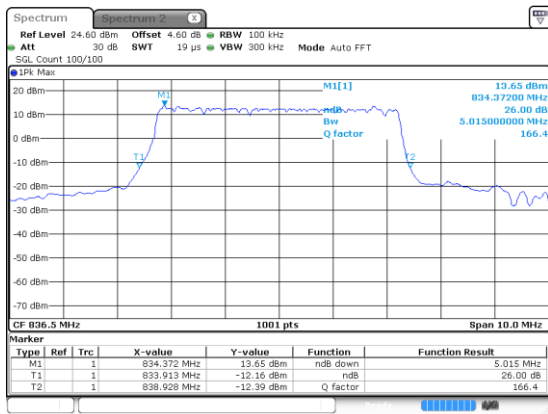
Data: 20_23/1/2020_04:08:36

Lowest Channel / 64QAM



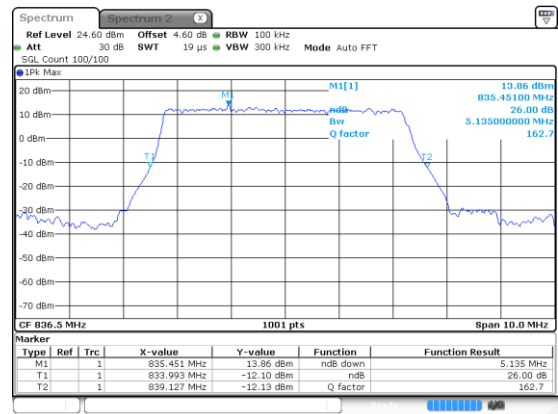
Data: 20_23/1/2020_04:10:38

Middle Channel / 16QAM



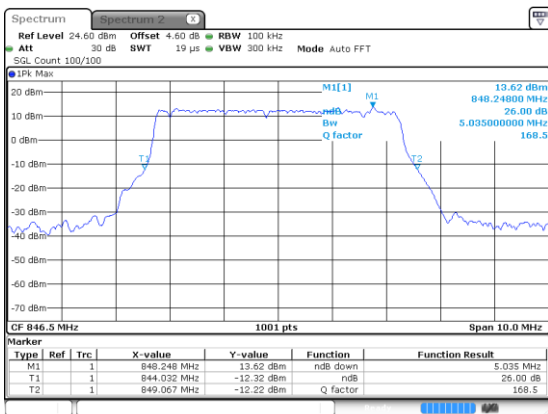
Data: 20_23/1/2020_04:12:36

Middle Channel / 64QAM



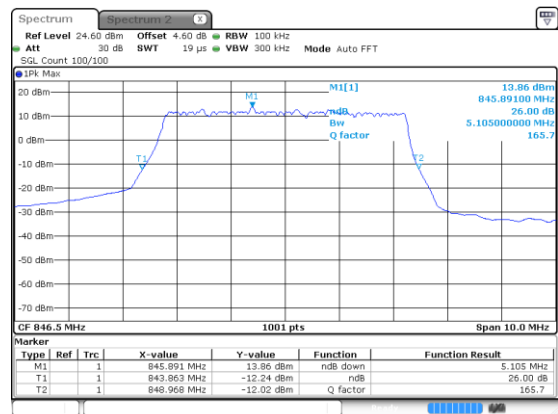
Data: 20_23/1/2020_04:14:38

Highest Channel / 16QAM



Data: 20_23/1/2020_04:16:36

Highest Channel / 64QAM

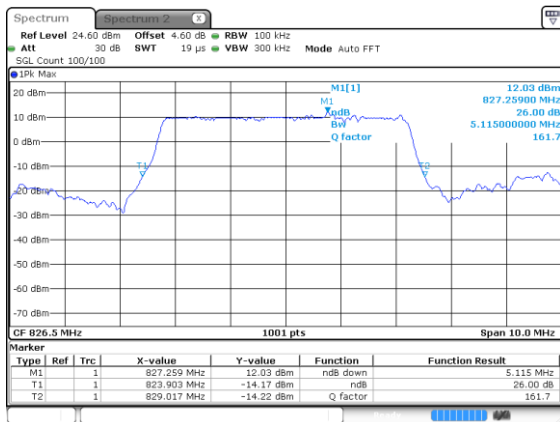


Data: 20_23/1/2020_04:18:38

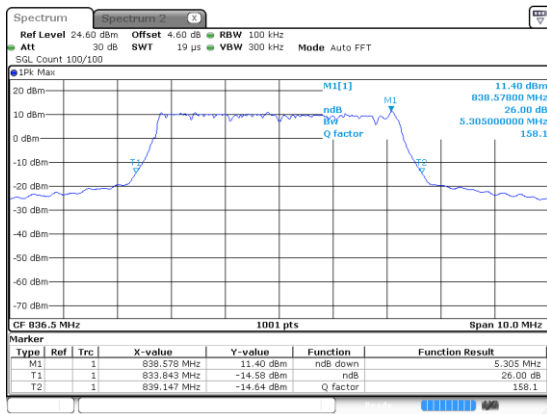


5MHz

Lowest Channel / 256QAM



Middle Channel / 256QAM



Highest Channel / 256QAM

