

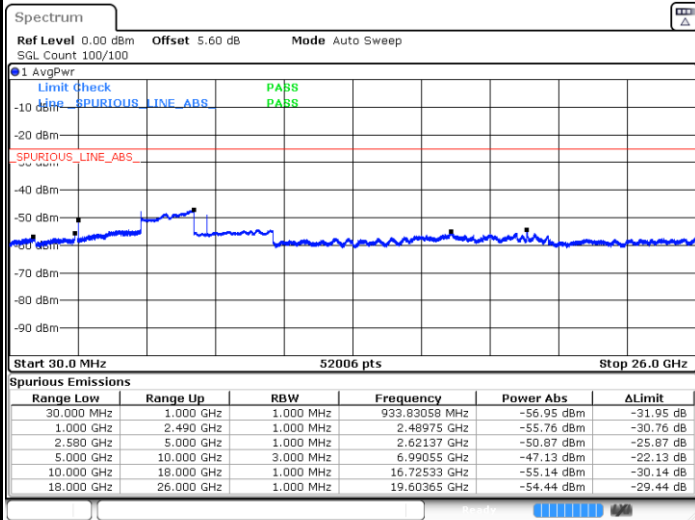


Conducted Spurious Emission

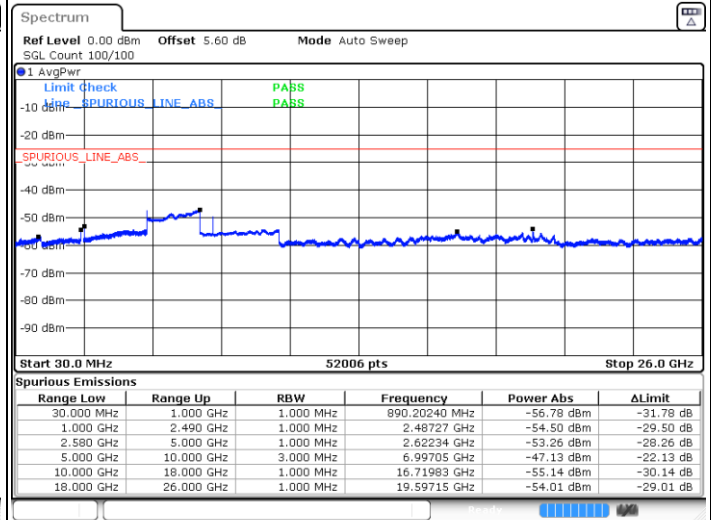
FR1 n7 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

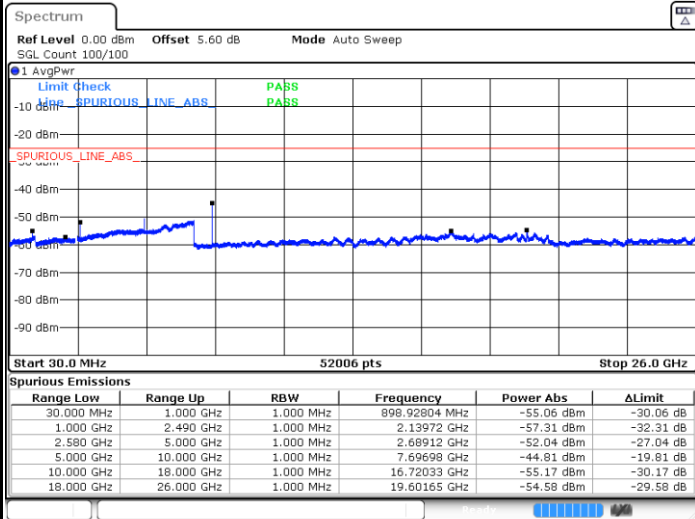


Date: 7 JUN 2022 05:28:10



Date: 7 JUN 2022 05:31:44

Highest Channel / 1RB1



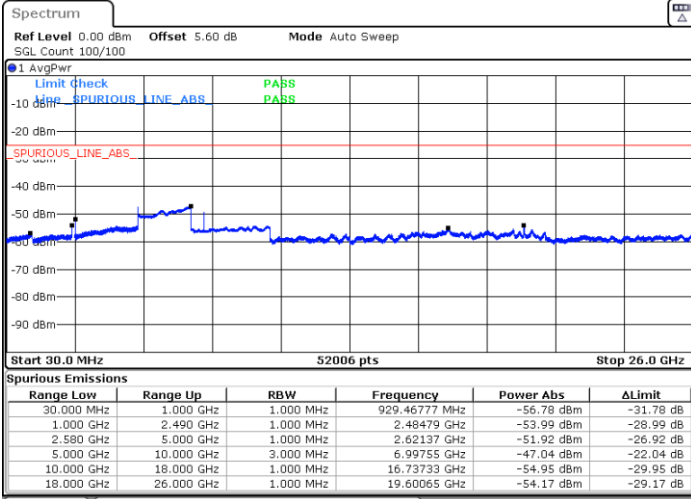
Date: 7 JUN 2022 05:46:39



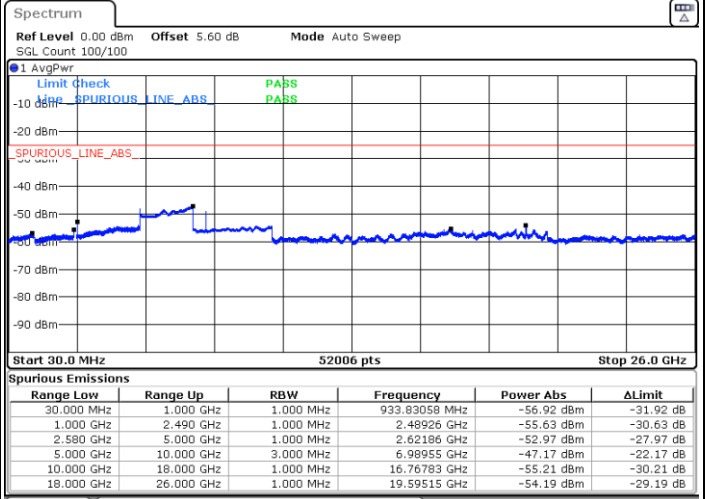
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

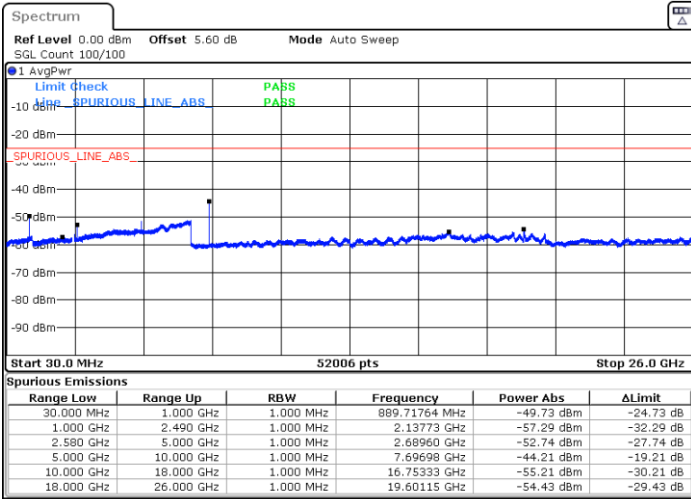


Date: 7 JUN 2022 05:29:01



Date: 7 JUN 2022 05:30:58

Highest Channel / 1RB1



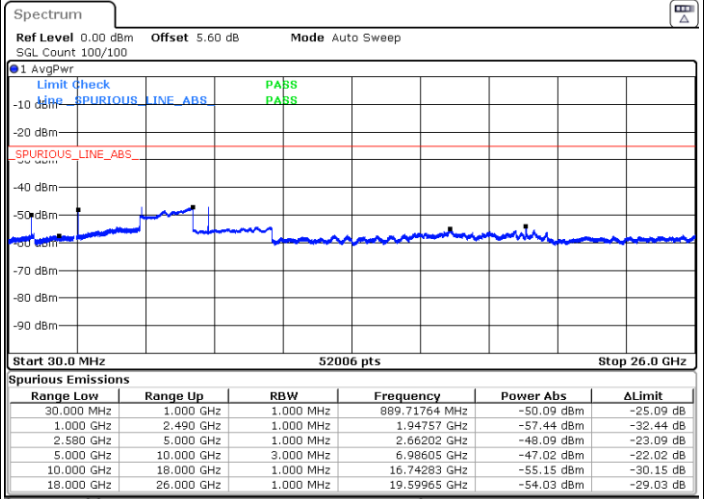
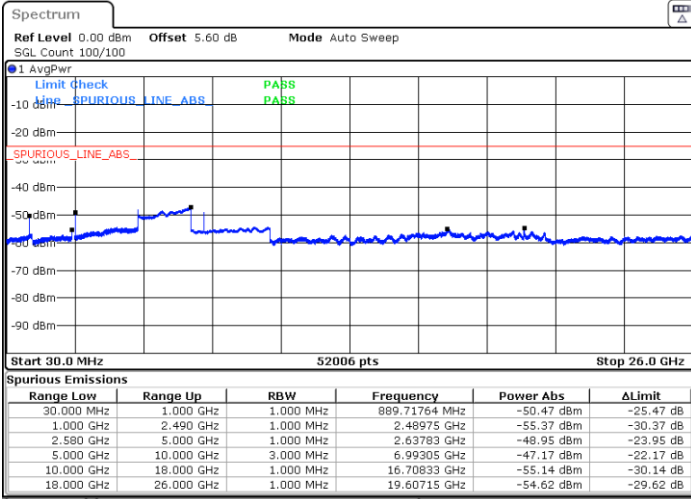
Date: 7 JUN 2022 05:47:23



FR1 n7 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

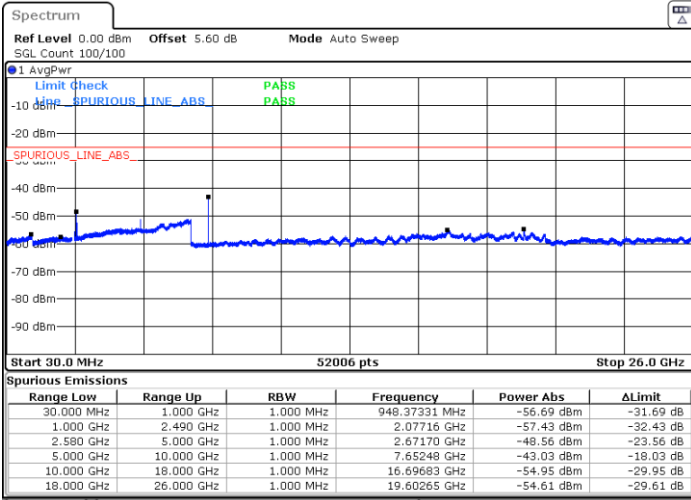
Middle Channel / 1RB1



Date: 7 JUN 2022 06:34:12

Date: 7 JUN 2022 06:36:04

Highest Channel / 1RB1



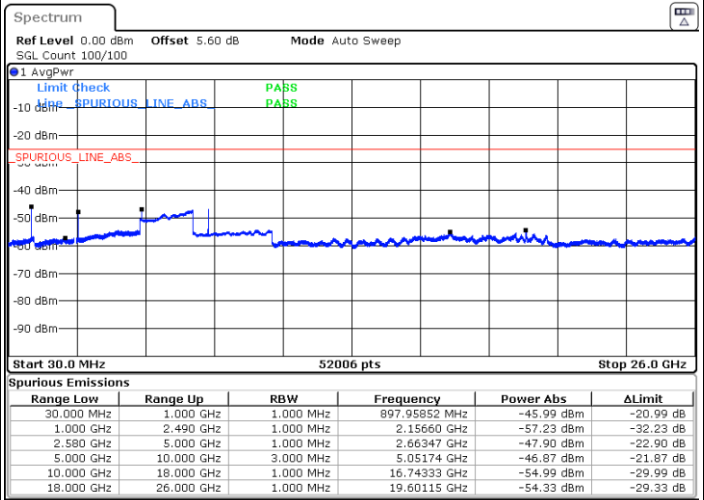
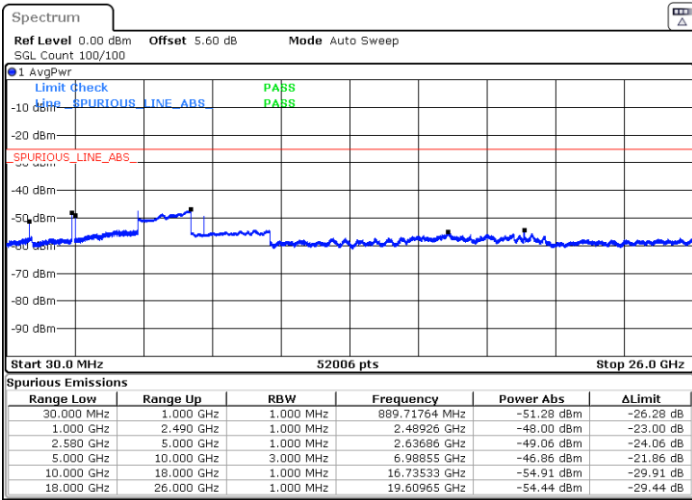
Date: 7 JUN 2022 06:48:43



FR1 n7 / 25MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

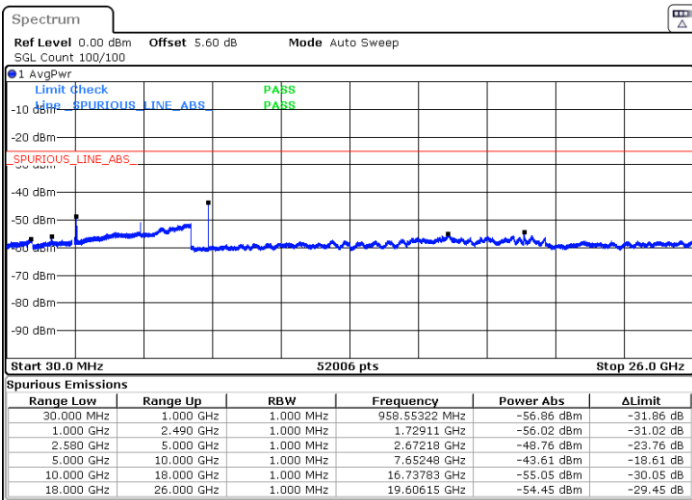
Middle Channel / 1RB1



Date: 7 JUN 2022 06:33:24

Date: 7 JUN 2022 06:37:10

Highest Channel / 1RB1



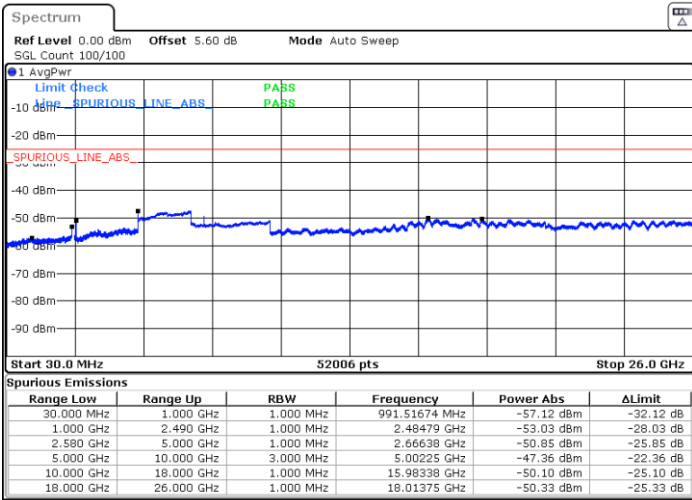
Date: 7 JUN 2022 06:49:35



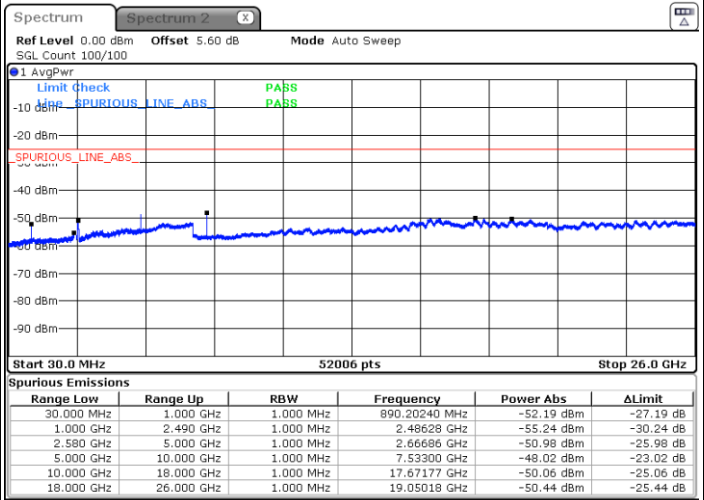
FR1 n7 / 50MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

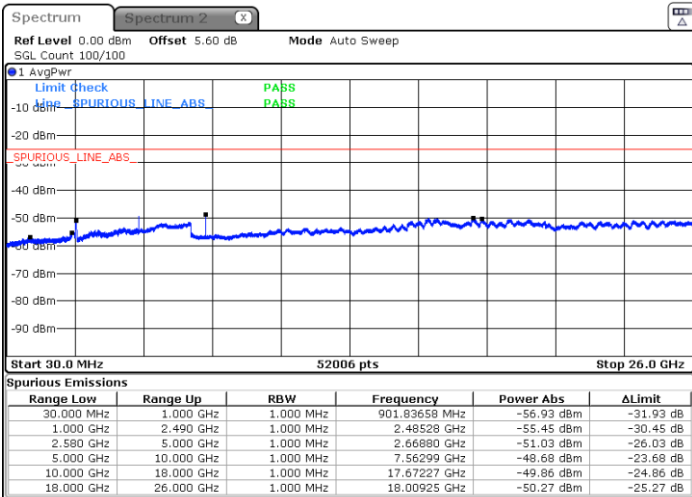


Date: 9 JUN 2022 13:44:23



Date: 9 JUN 2022 14:27:08

Highest Channel / 1RB1



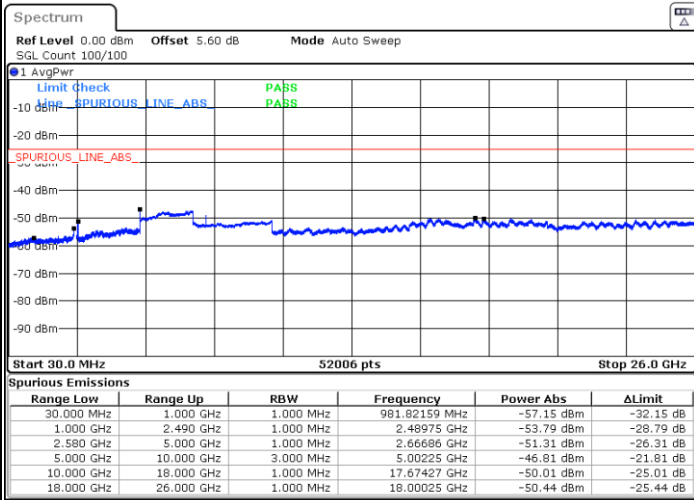
Date: 9 JUN 2022 14:32:05



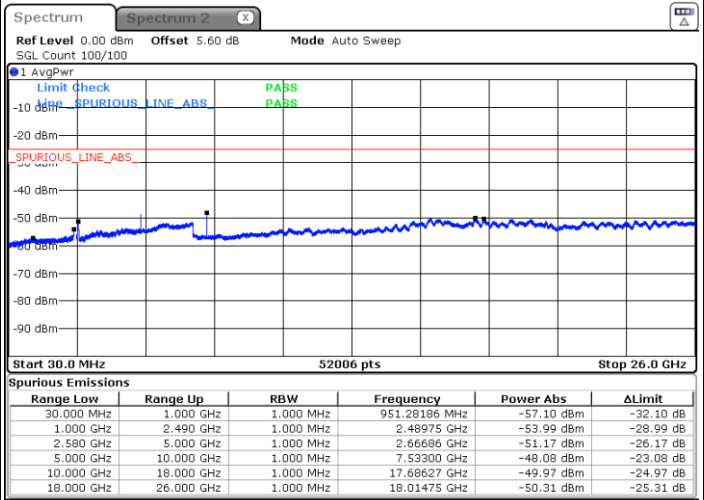
FR1 n7 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

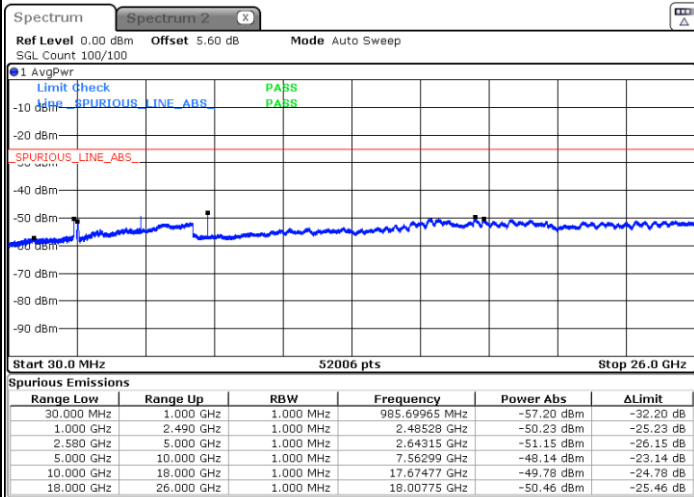


Date: 9 JUN 2022 13:45:21



Date: 9 JUN 2022 14:29:15

Highest Channel / 1RB1



Date: 9 JUN 2022 14:30:59



Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0012	

Note:

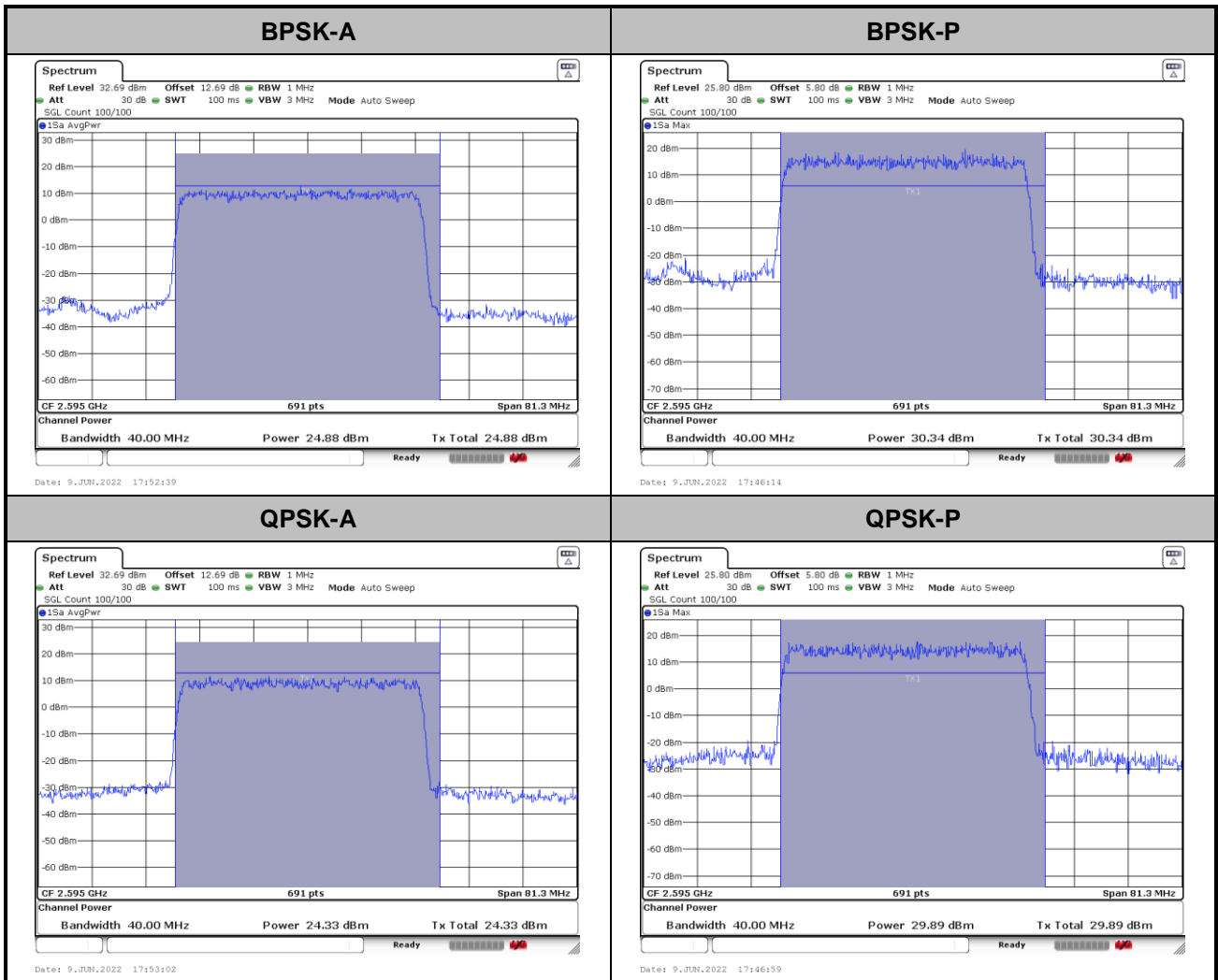
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n38

Peak-to-Average Ratio

Mode	FR1 n38 /40MHz / DFT-S OFDM		
Mod.	100M		Limit: 13dB
RB Size	BPSK	QPSK	Result
Middle CH	5.46	5.56	PASS





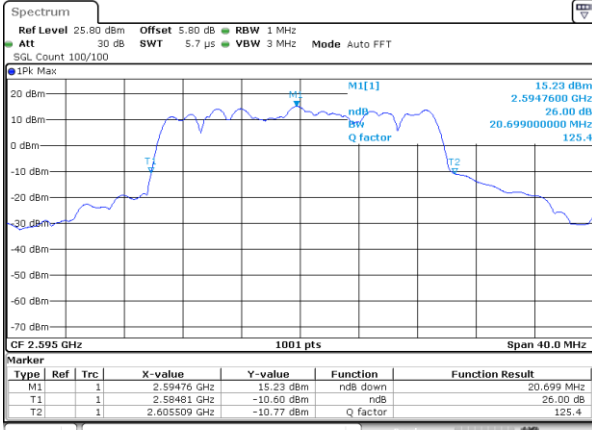
26dB Bandwidth

Mode	FR1 n38 : 26dB BW(MHz) / CP			
BW	20M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	20.70	20.70	20.46	20.3
BW	30M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.71	28.89	28.89	28.83
BW	40M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.04	40.2	40.12	40.04



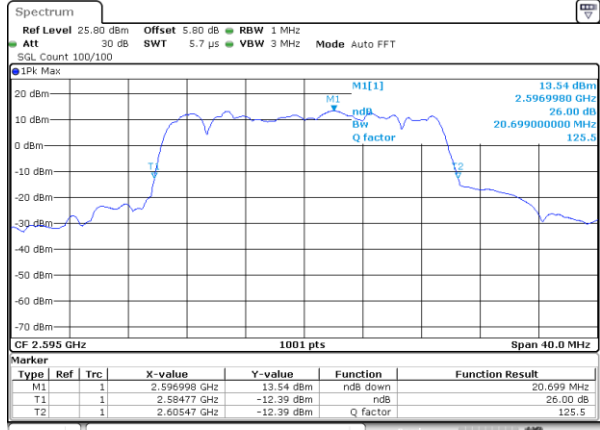
20M

QPSK



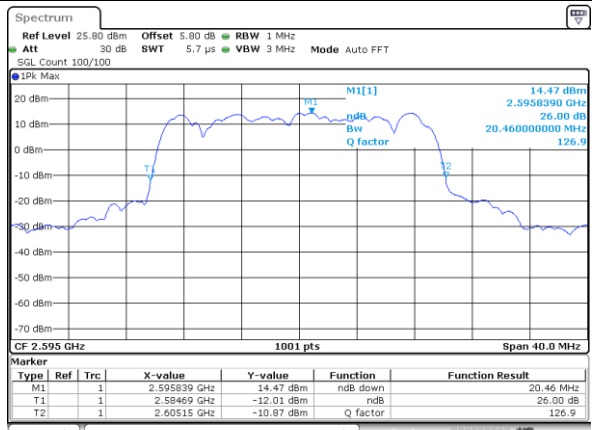
Date: 11 JUN 2022 14:36:47

16QAM



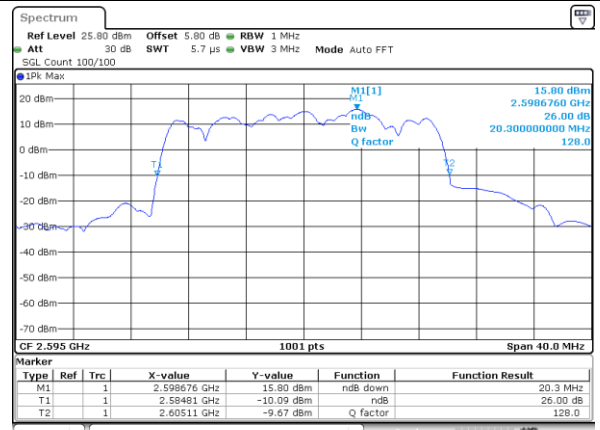
Date: 11 JUN 2022 14:37:10

64QAM



Date: 11 JUN 2022 14:37:36

256QAM

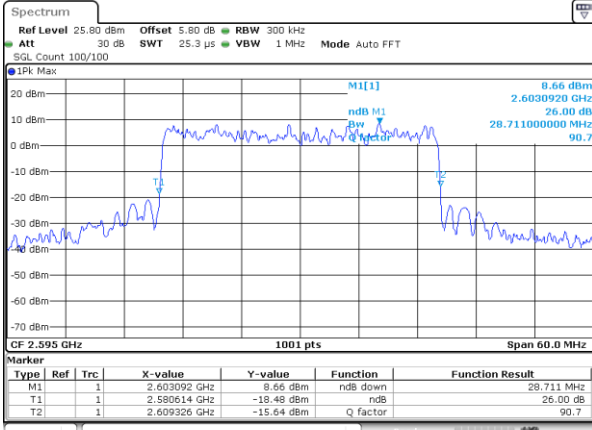


Date: 11 JUN 2022 14:38:03



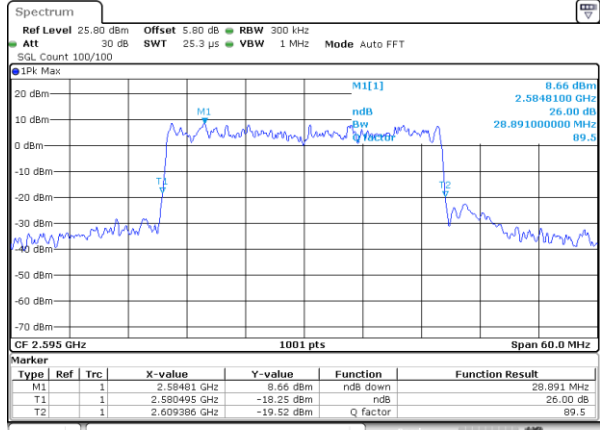
30M

QPSK



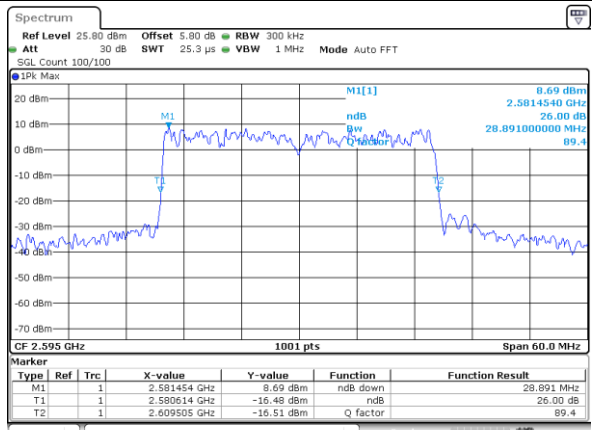
Date: 11 JUN 2022 14:05:40

16QAM



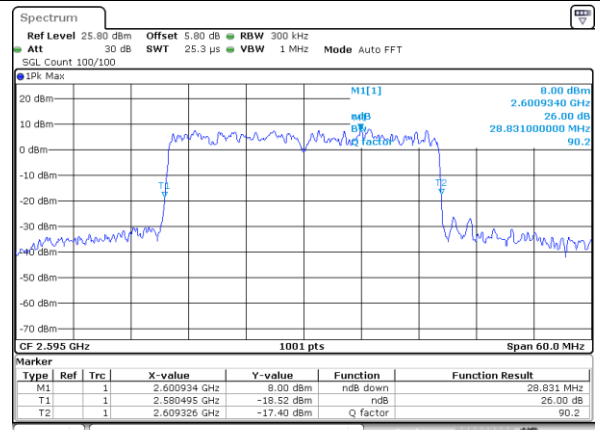
Date: 11 JUN 2022 14:06:19

64QAM



Date: 11 JUN 2022 14:06:54

256QAM

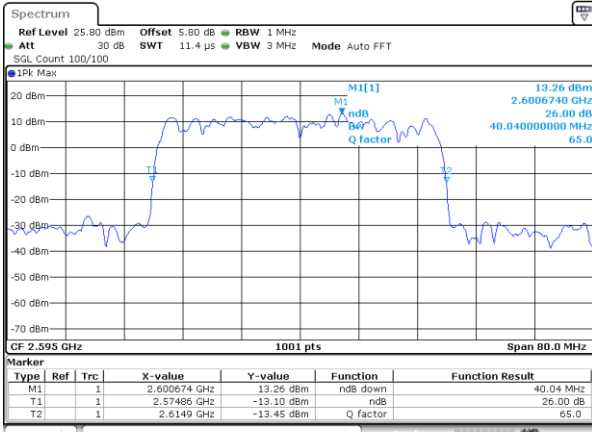


Date: 11 JUN 2022 14:21:03



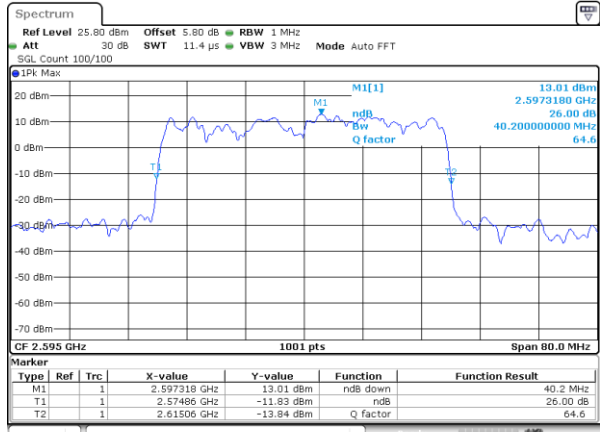
40M

QPSK



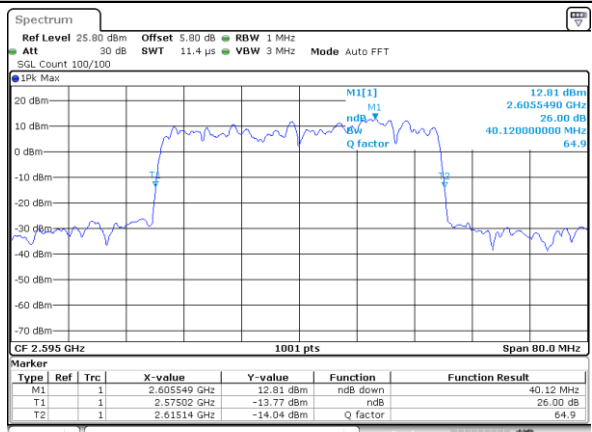
Date: 11.JUN.2022 13:56:42

16QAM



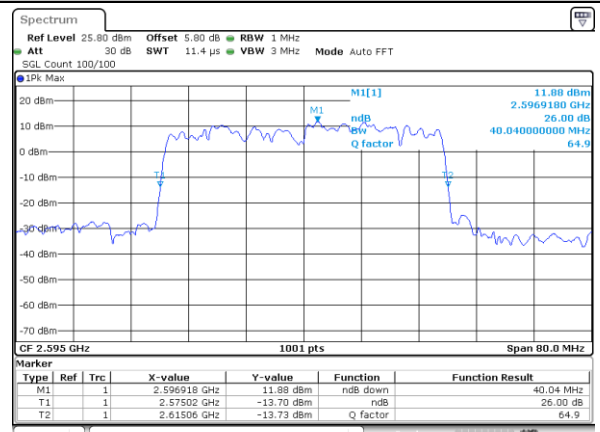
Date: 11.JUN.2022 13:58:28

64QAM



Date: 11.JUN.2022 14:00:13

256QAM



Date: 11.JUN.2022 14:01:03



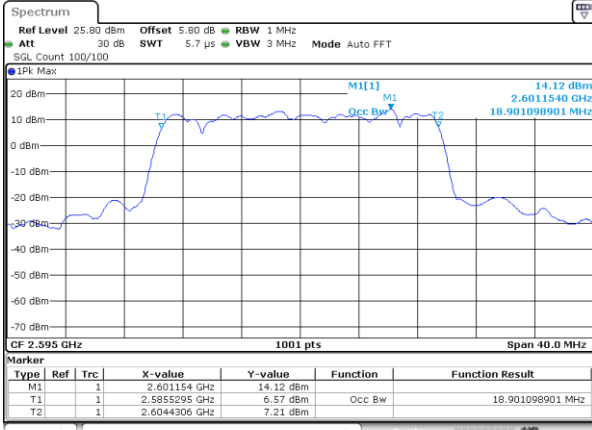
Occupied Bandwidth

Mode	FR1 n38: OB BW(MHz) / CP			
BW	20M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.90	18.90	18.58	18.62
BW	30M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	27.75	27.81	27.75	27.63
BW	40M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	38.20	38.20	38.04	38.20



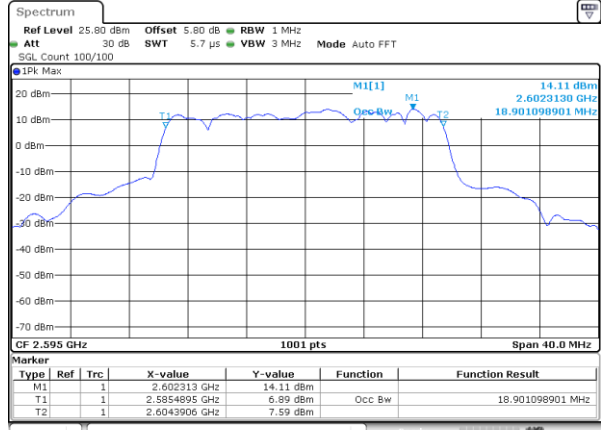
20M

QPSK



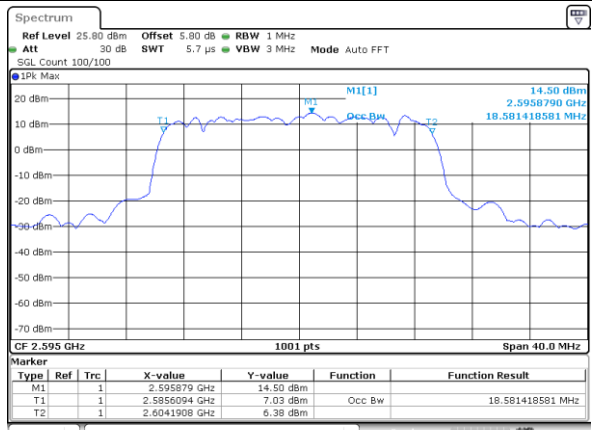
Date: 11 JUN 2022 14:36:55

16QAM



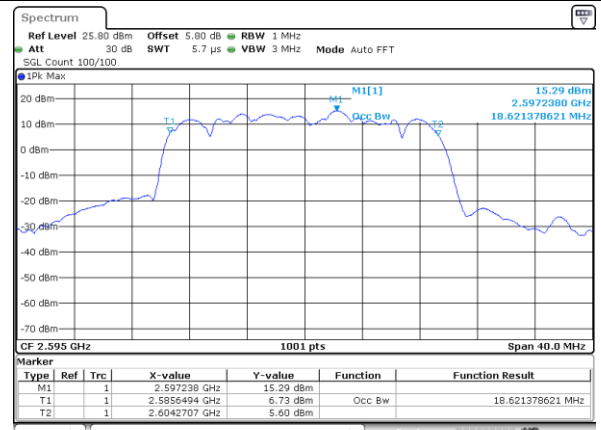
Date: 11 JUN 2022 14:37:18

64QAM



Date: 11 JUN 2022 14:37:43

256QAM

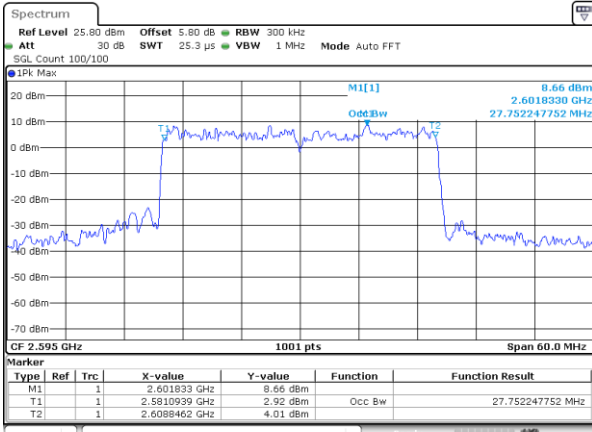


Date: 11 JUN 2022 14:38:11



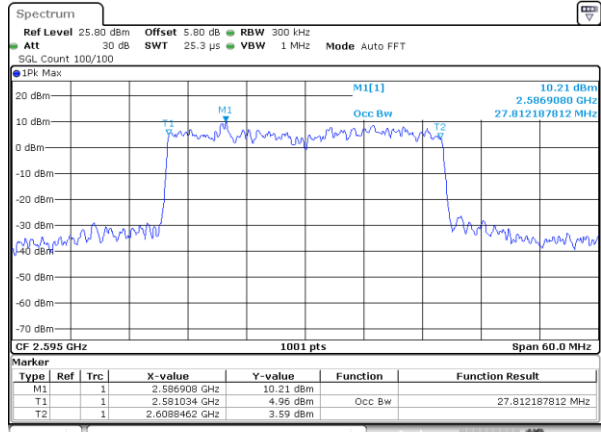
30M

QPSK



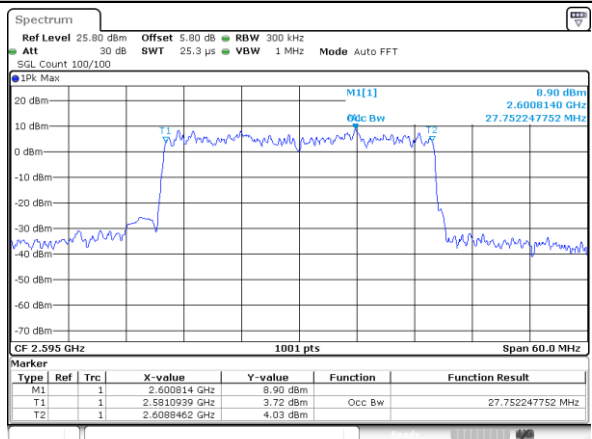
Date: 11 JUN 2022 14:06:01

16QAM



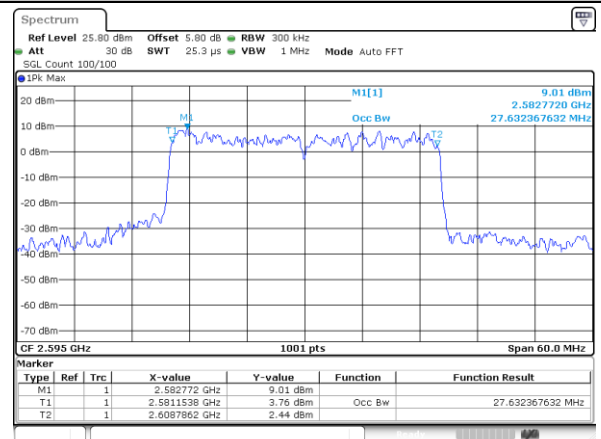
Date: 11 JUN 2022 14:06:33

64QAM



Date: 11 JUN 2022 14:07:07

256QAM

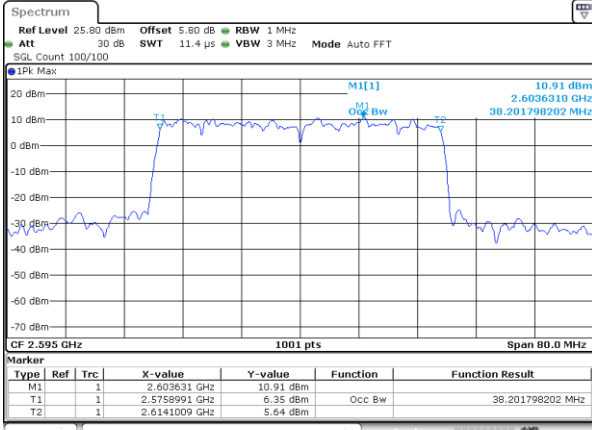


Date: 11 JUN 2022 14:23:17



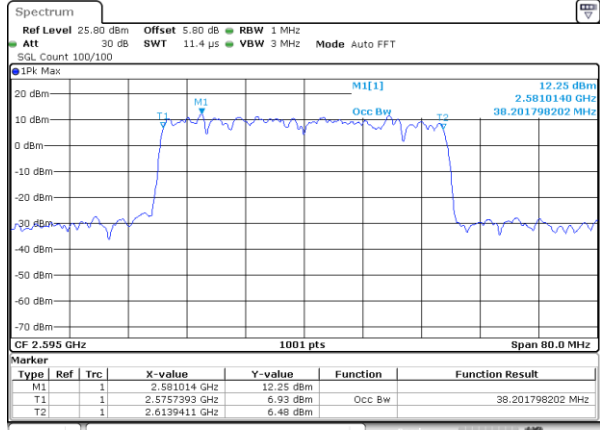
40M

QPSK



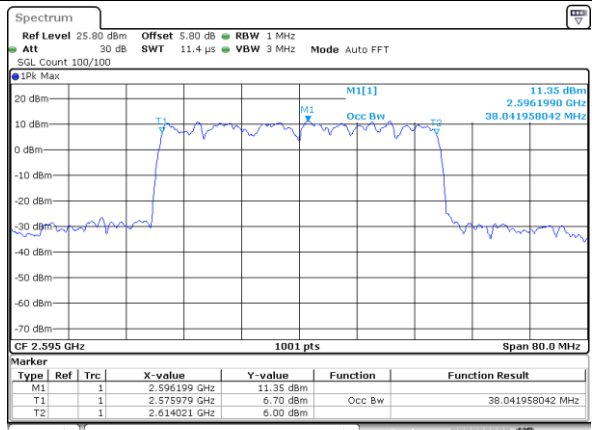
Date: 11 JUN 2022 13:56:55

16QAM



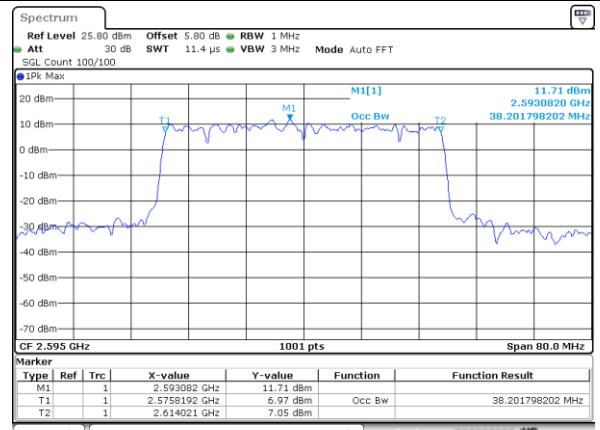
Date: 11 JUN 2022 13:58:39

4QAM



Date: 11 JUN 2022 14:09:24

256QAM



Date: 11 JUN 2022 14:02:23

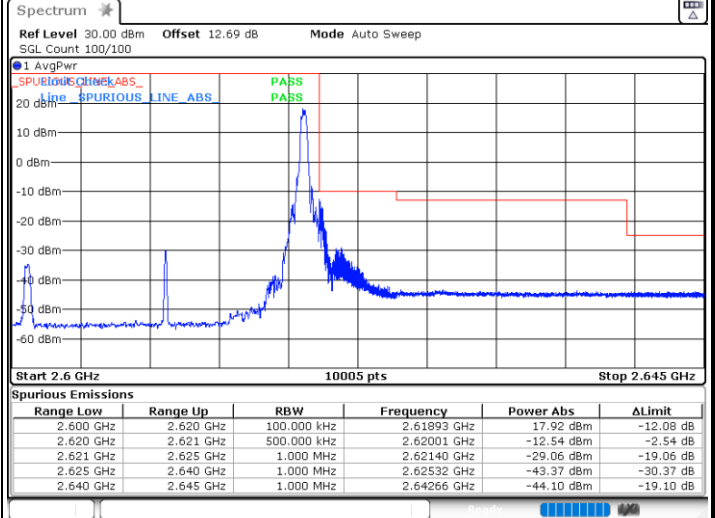
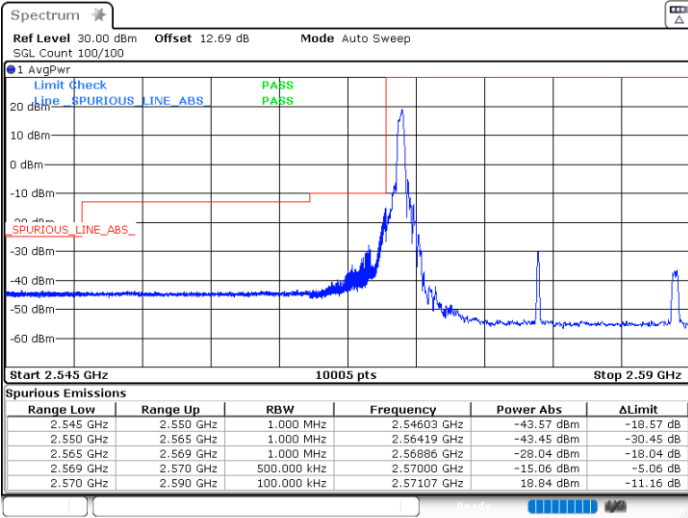


Conducted Band Edge

FR1 n38/ 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

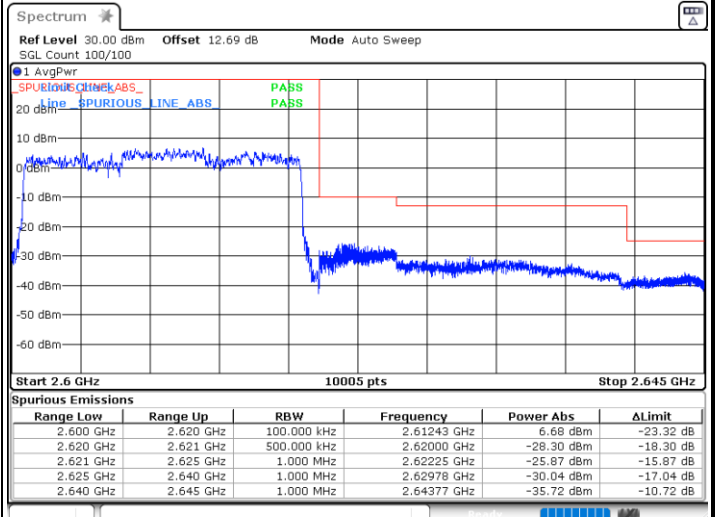
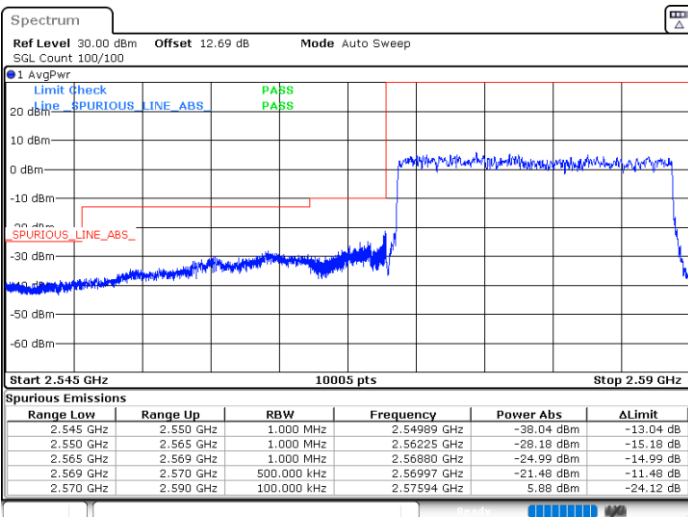


Date: 9 JUN, 2022 16:58:44

Date: 9 JUN, 2022 17:12:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN, 2022 16:59:41

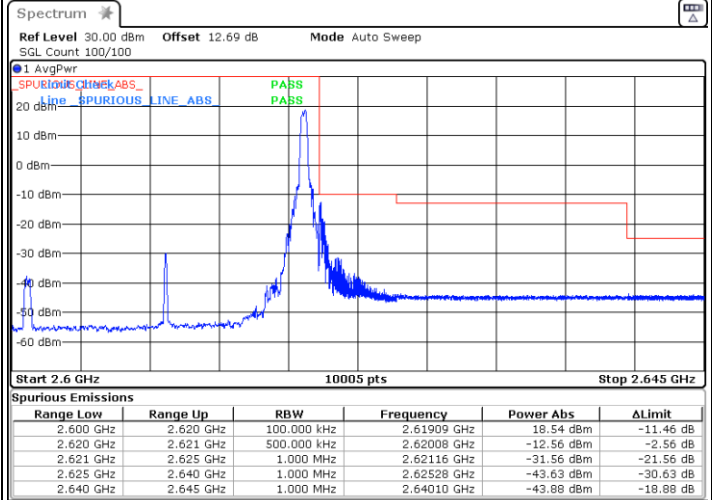
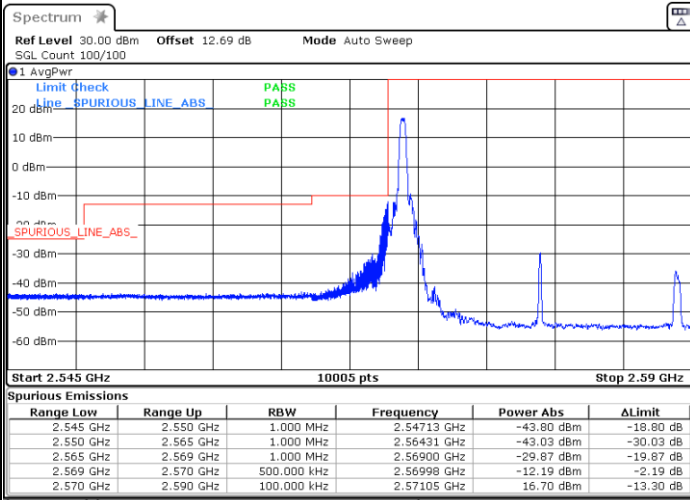
Date: 9 JUN, 2022 17:09:40



FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

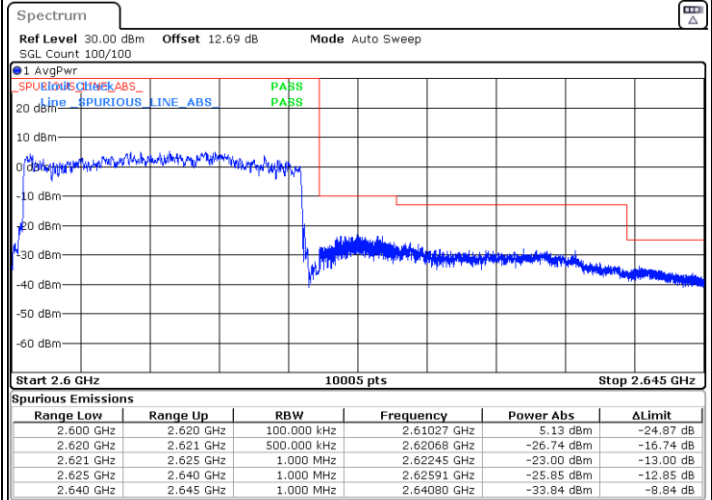
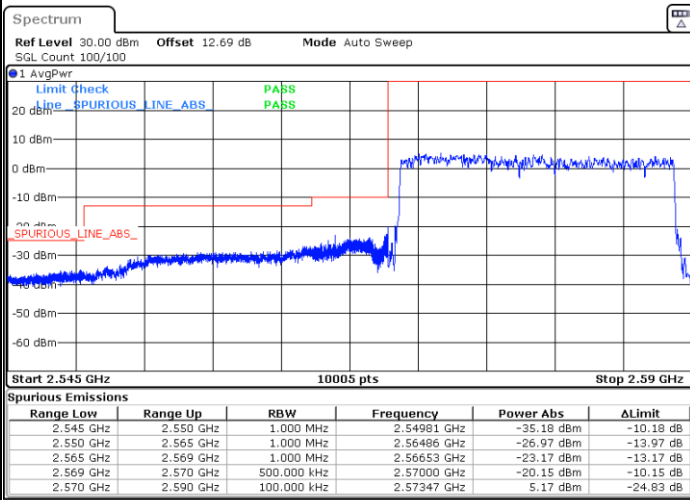


Date: 9.JUN.2022 16:59:06

Date: 9.JUN.2022 17:11:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.JUN.2022 16:59:23

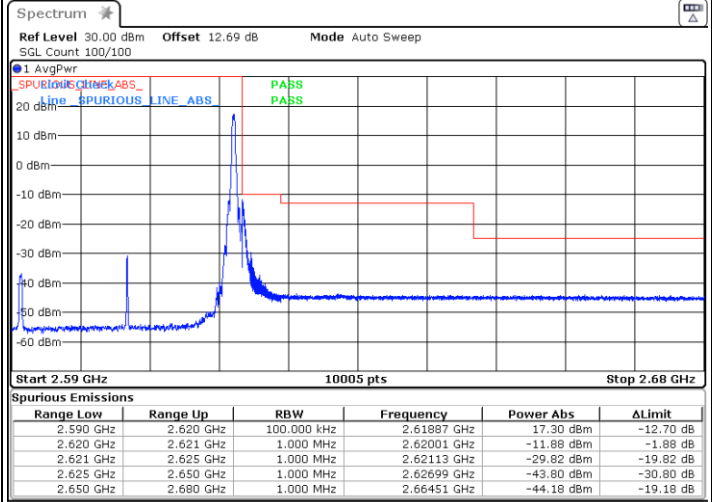
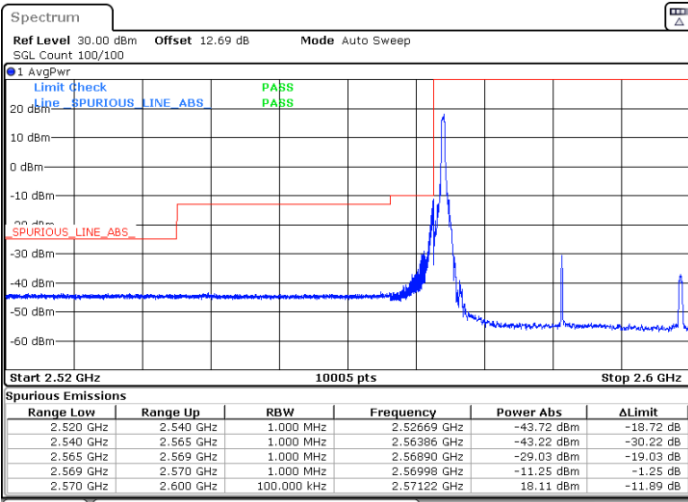
Date: 9.JUN.2022 17:10:49



FR1 n38/ 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

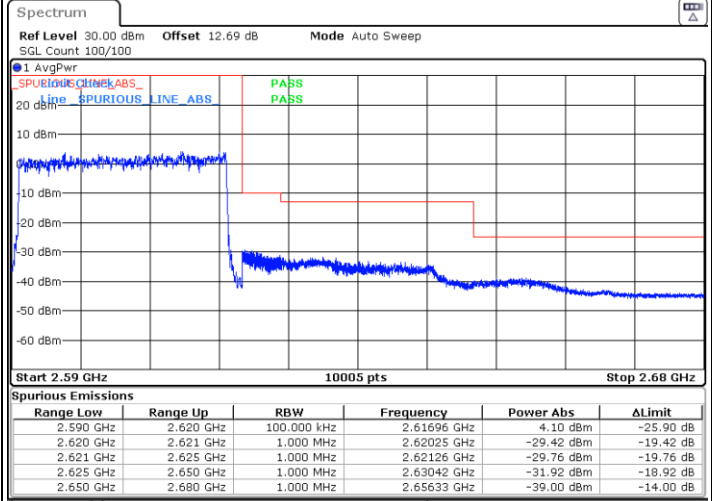
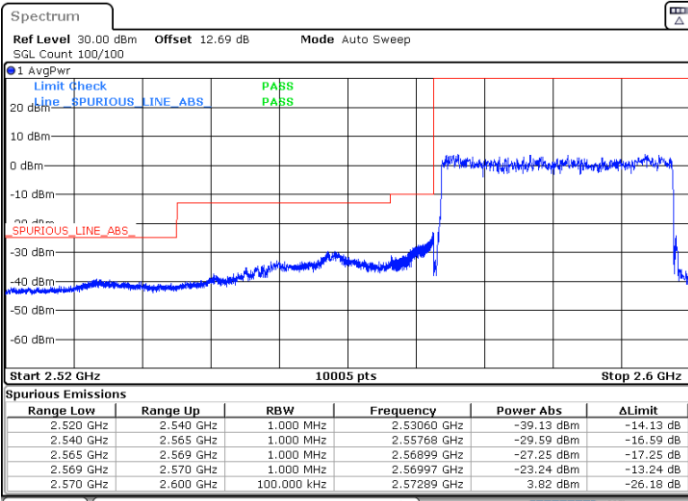


Date: 9 JUN, 2022 17:16:39

Date: 9 JUN, 2022 17:33:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN, 2022 17:18:35

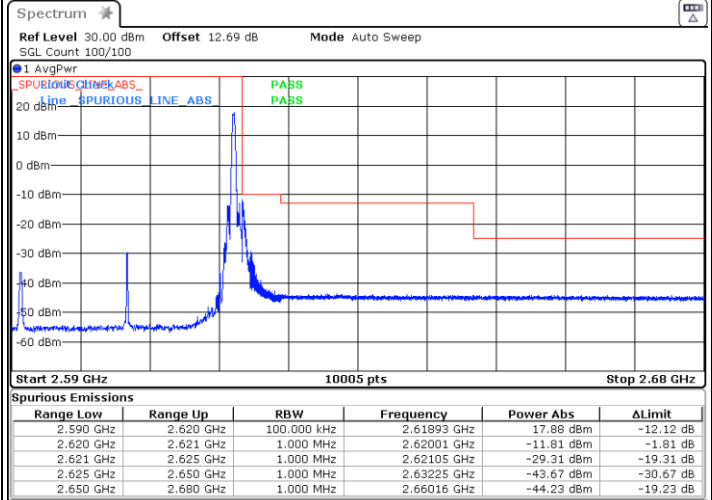
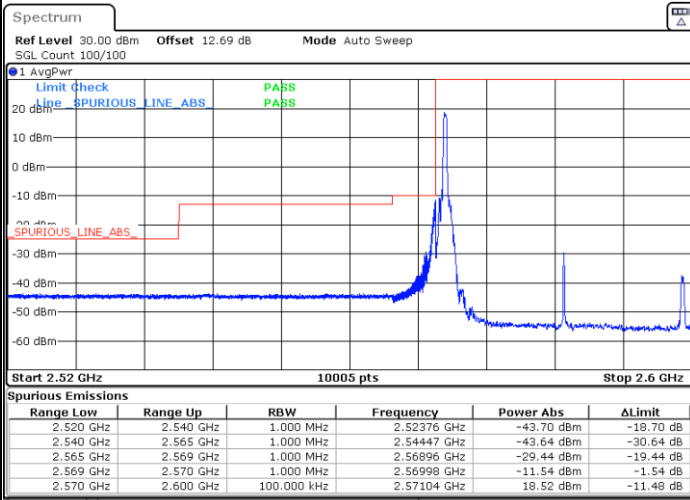
Date: 9 JUN, 2022 17:31:11



FR1 n38 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

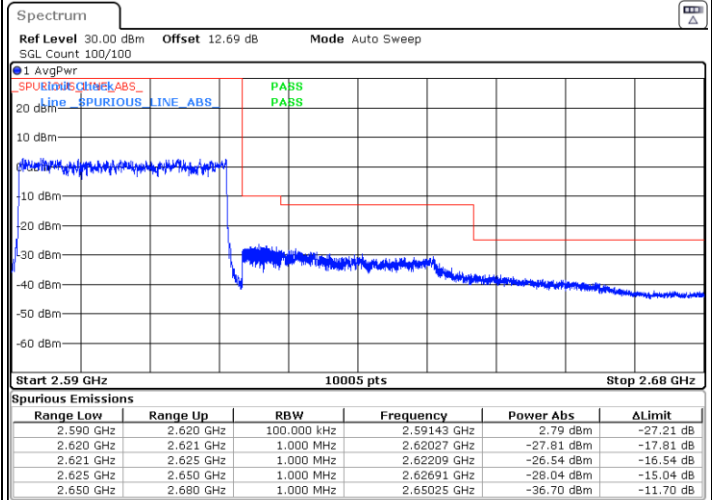
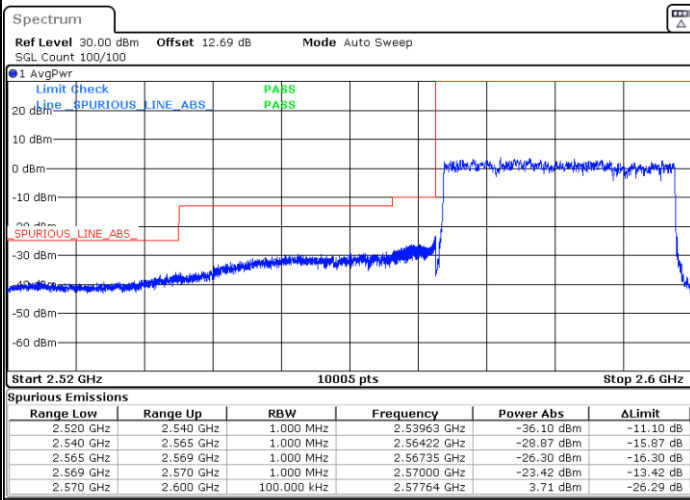


Date: 9 JUN, 2022 17:17:22

Date: 9 JUN, 2022 17:32:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN, 2022 17:18:07

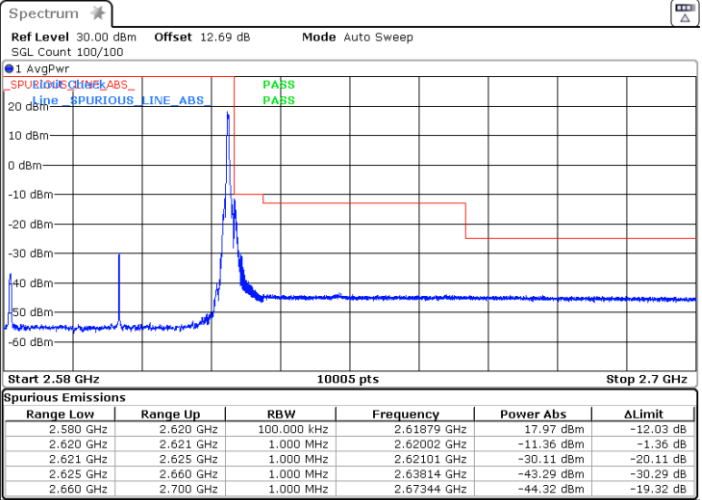
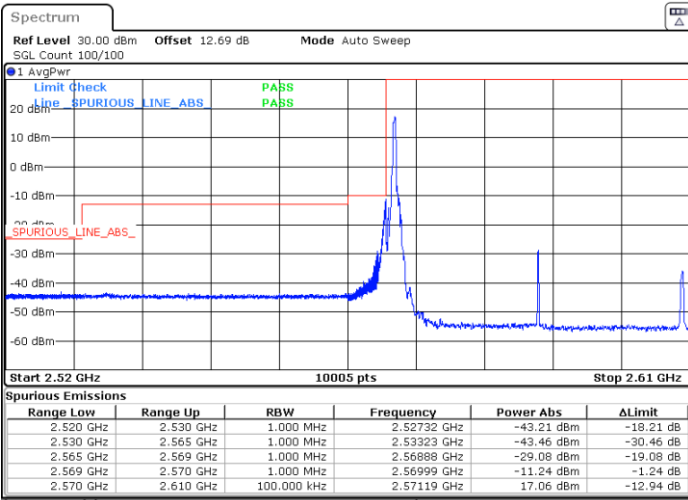
Date: 9 JUN, 2022 17:31:35



FR1 n38 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

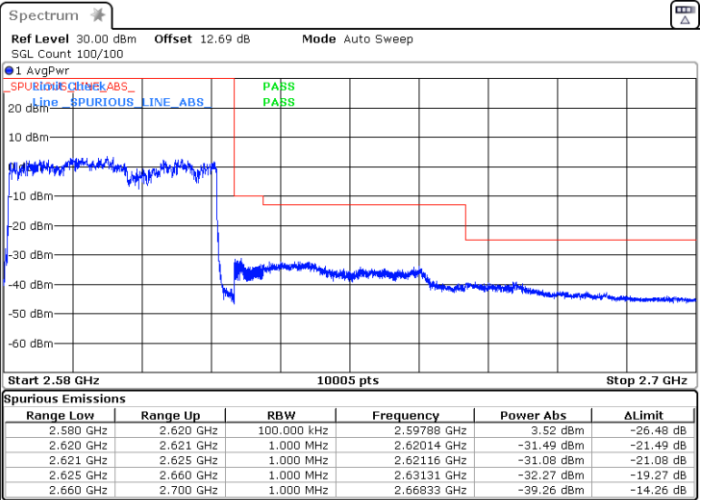
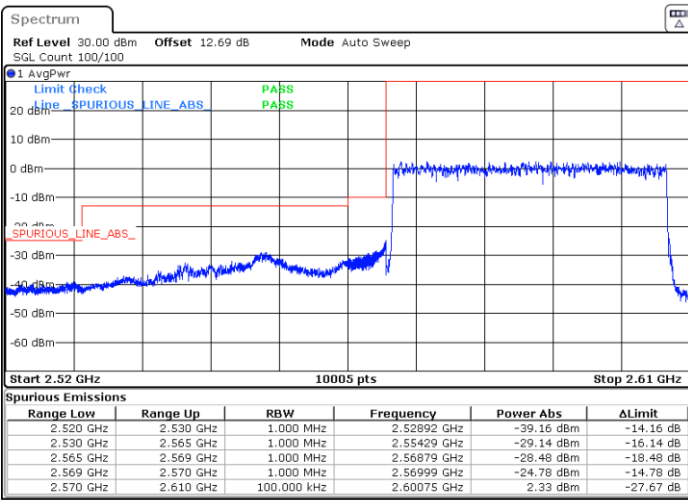


Date: 9 JUN, 2022 17:36:12

Date: 9 JUN, 2022 18:03:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN, 2022 17:40:35

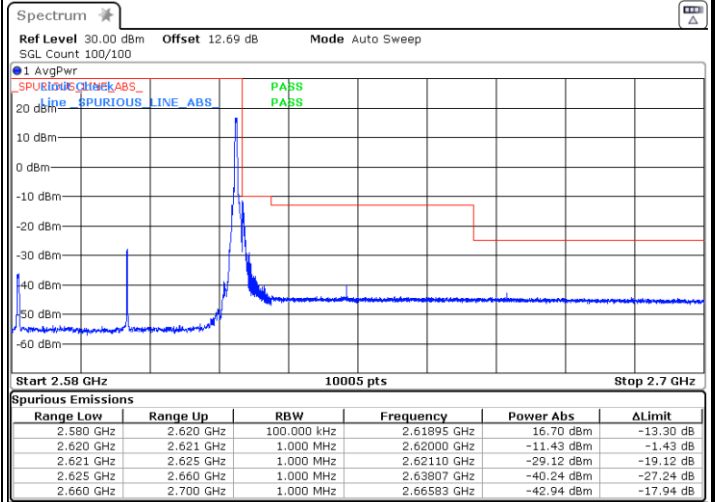
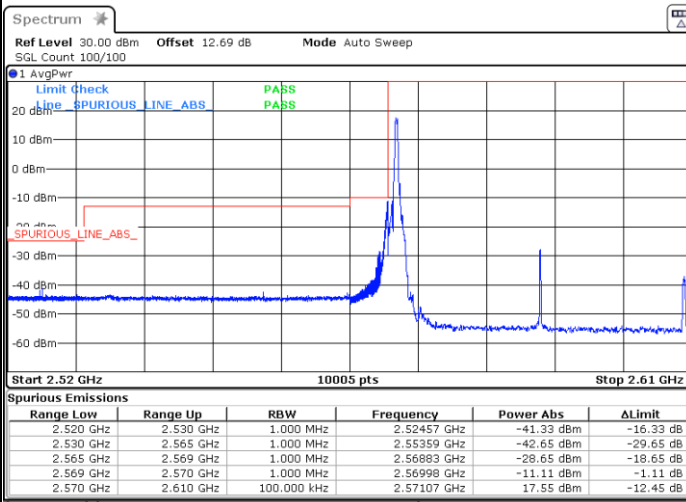
Date: 9 JUN, 2022 18:00:41



FR1 n38 / 40MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

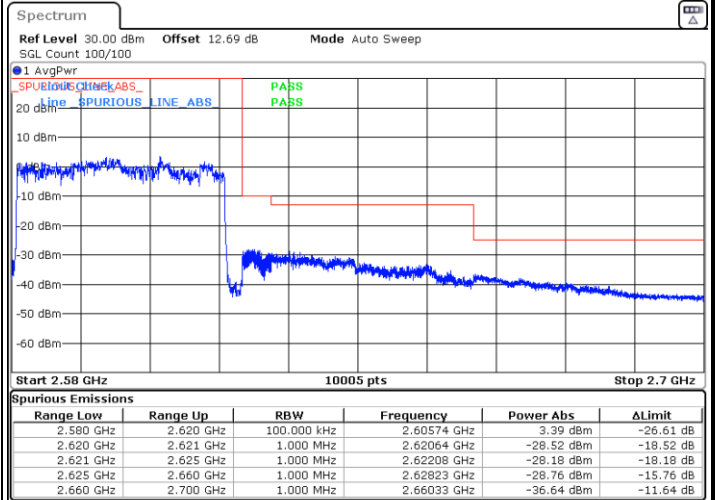
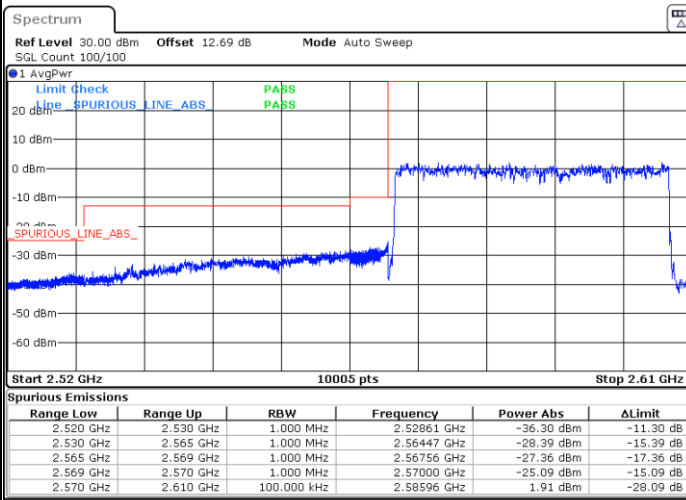


Date: 9 JUN.2022 17:38:14

Date: 9 JUN.2022 18:02:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

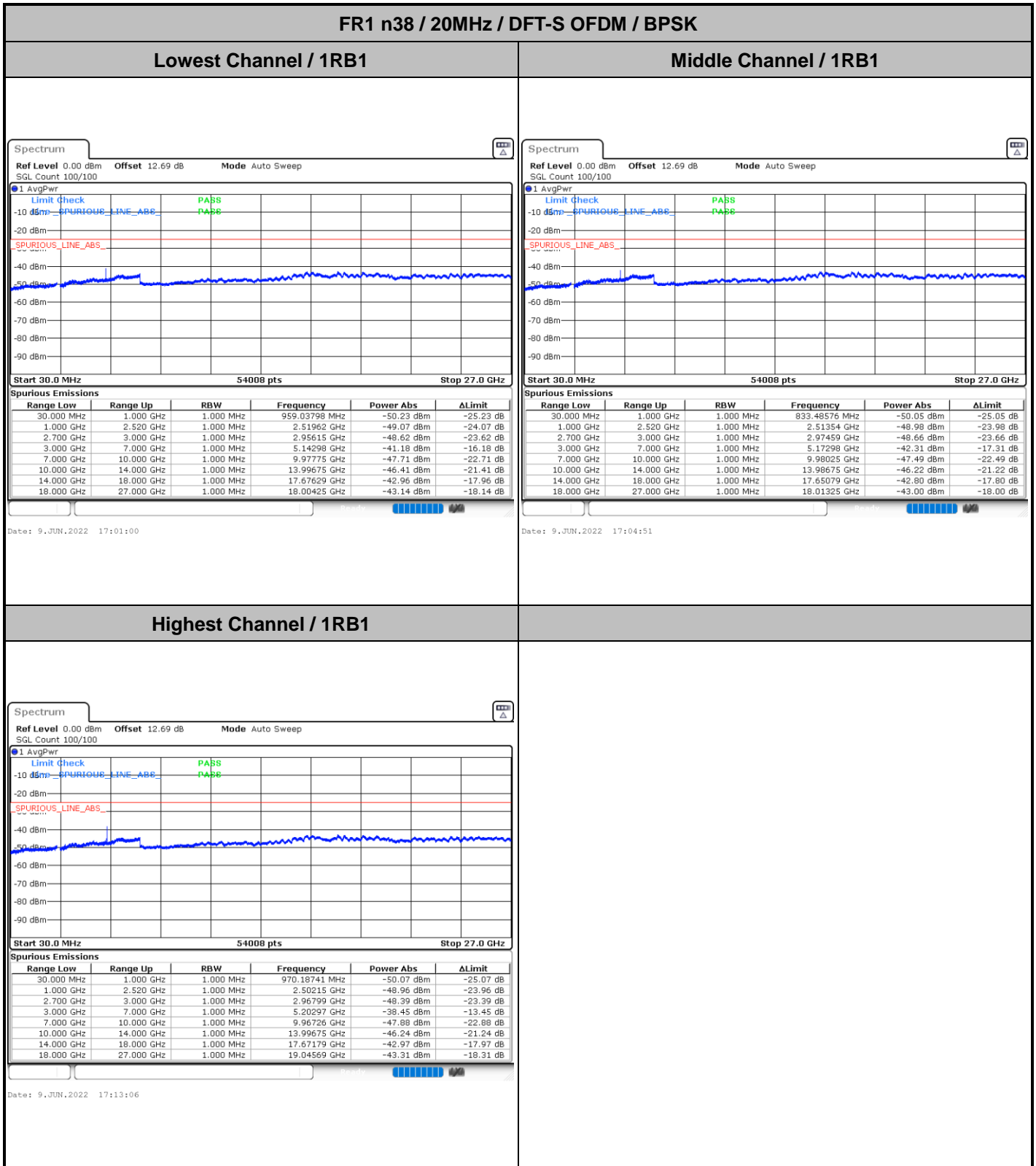


Date: 9 JUN.2022 17:41:03

Date: 9 JUN.2022 18:01:14



Conducted Spurious Emission

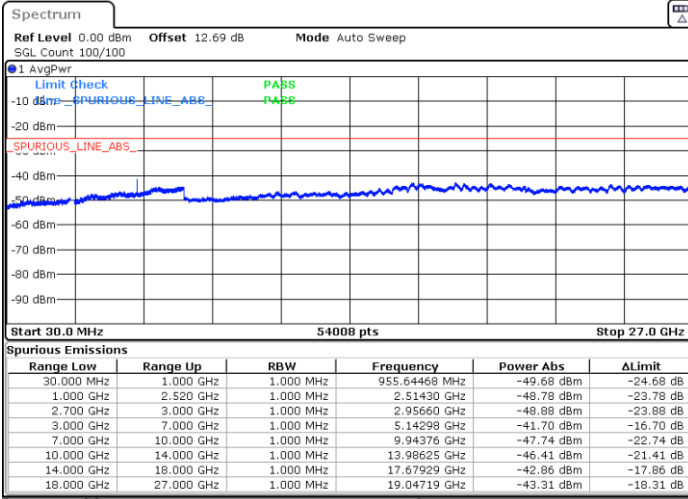




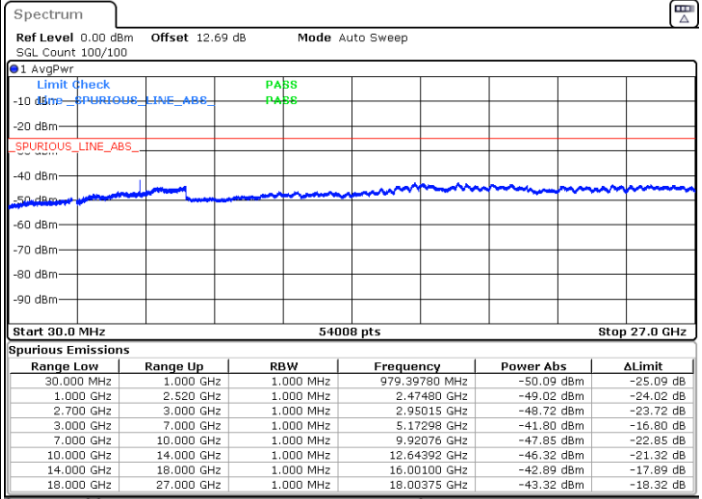
FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

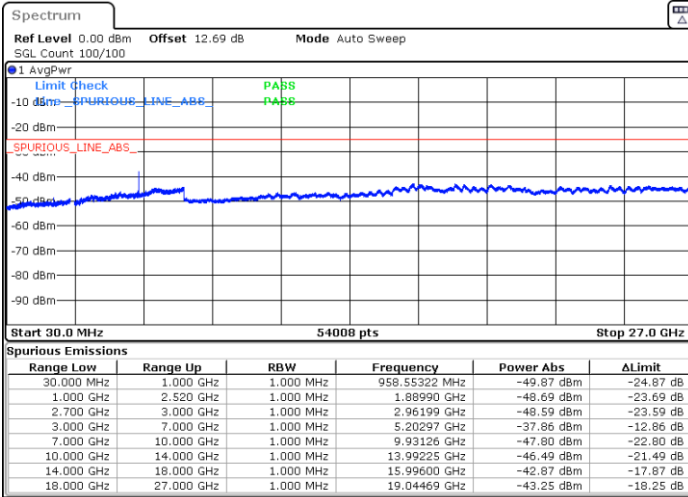


Date: 9 JUN.2022 17:01:56



Date: 9 JUN.2022 17:03:33

Highest Channel / 1RB1



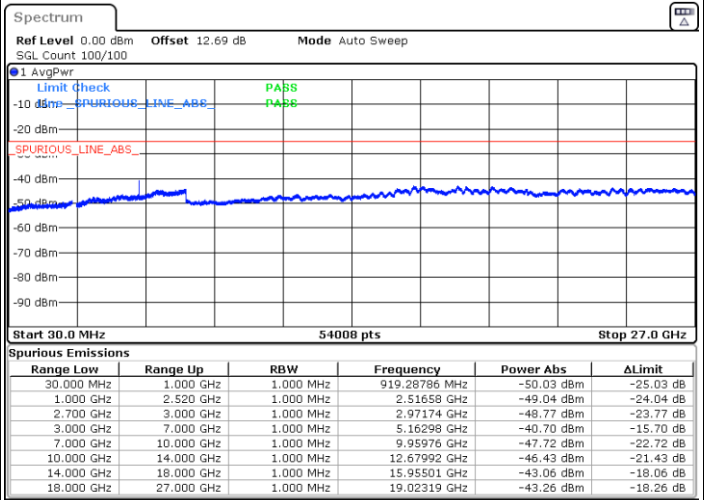
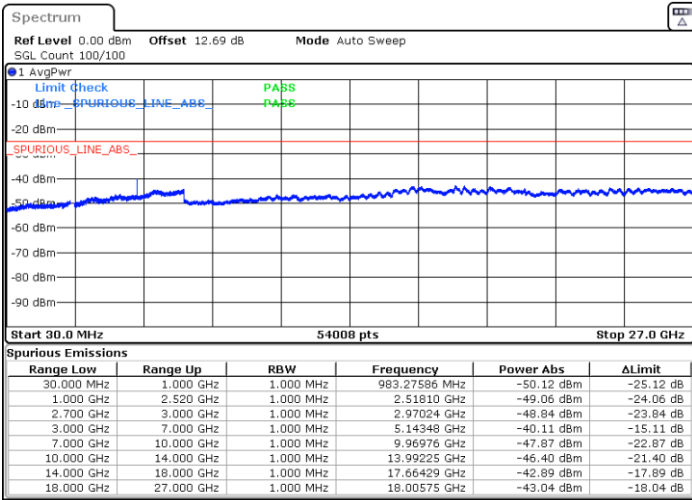
Date: 9 JUN.2022 17:14:07



FR1 n38 / 30MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

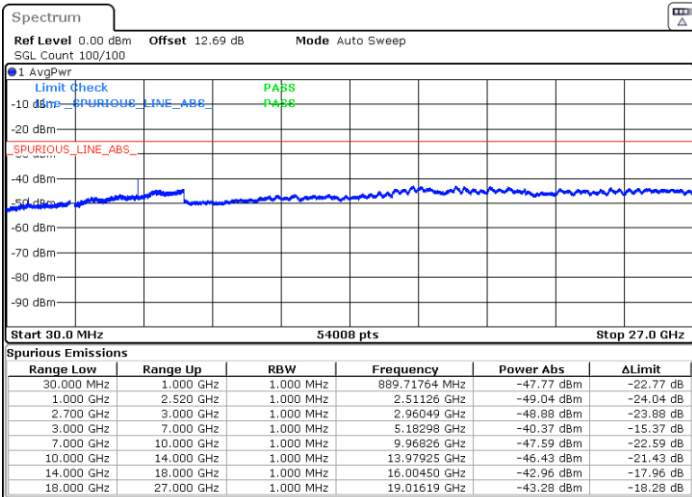
Middle Channel / 1RB1



Date: 9 JUN.2022 17:19:42

Date: 9 JUN.2022 17:26:05

Highest Channel / 1RB1



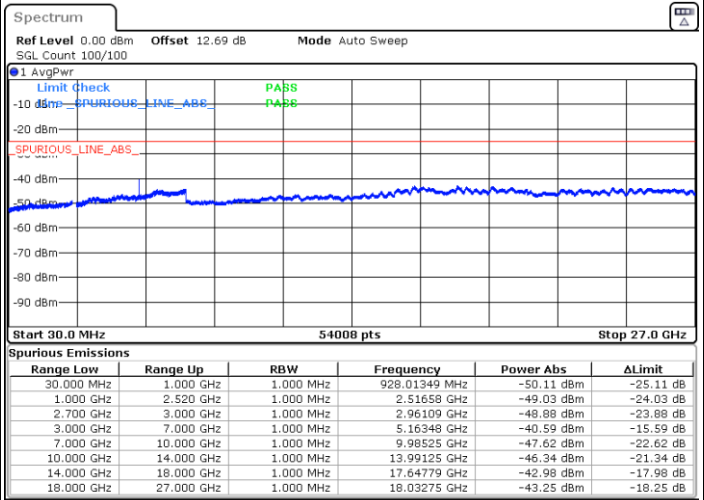
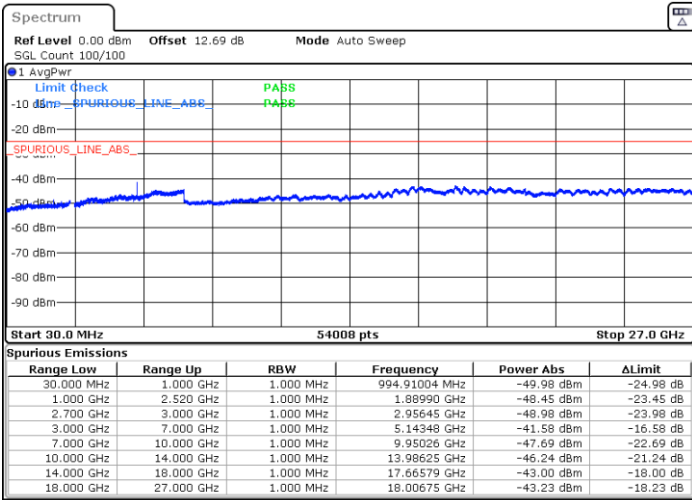
Date: 9 JUN.2022 17:30:44



FR1 n38 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

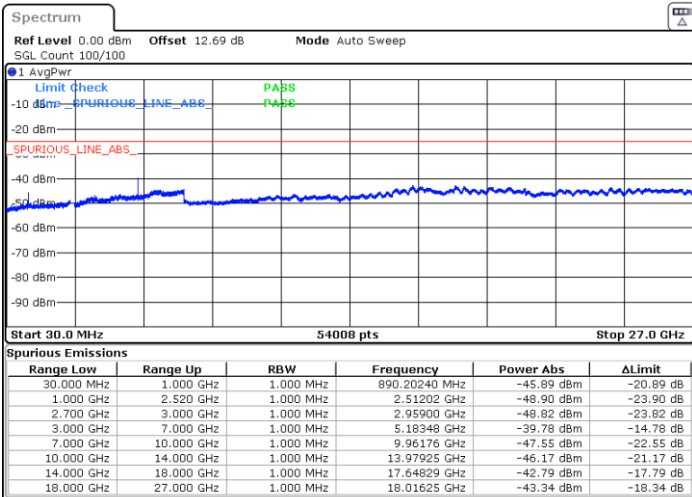
Middle Channel / 1RB1



Date: 9 JUN 2022 17:20:48

Date: 9 JUN 2022 17:27:01

Highest Channel / 1RB1



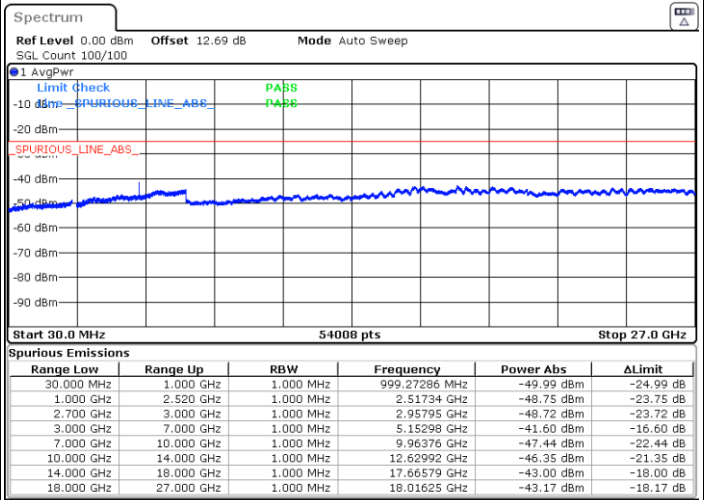
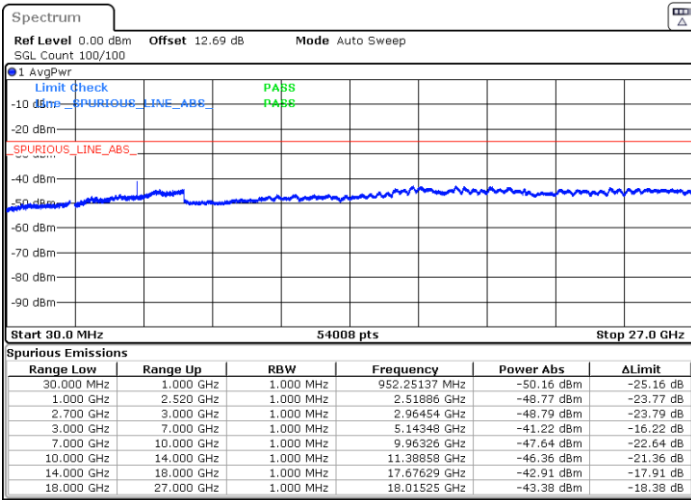
Date: 9 JUN 2022 17:29:45



FR1 n38 / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

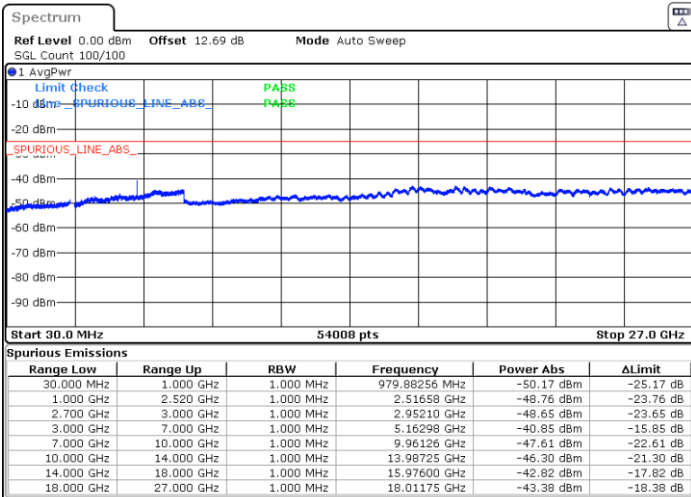
Middle Channel / 1RB1



Date: 9 JUN.2022 17:40:07

Date: 9 JUN.2022 17:54:20

Highest Channel / 1RB1



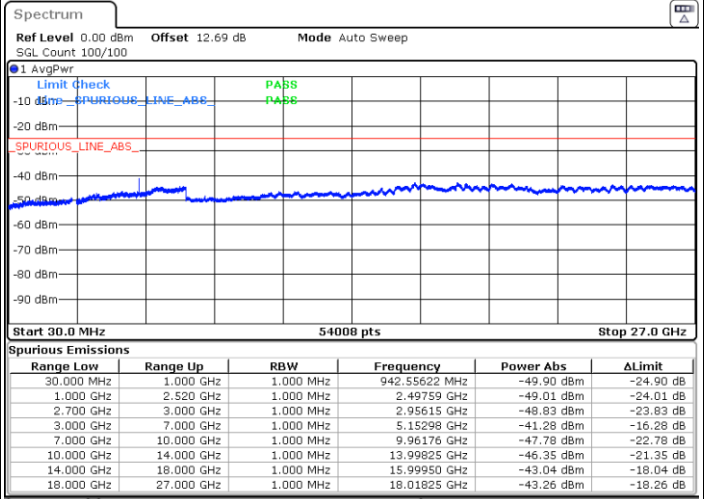
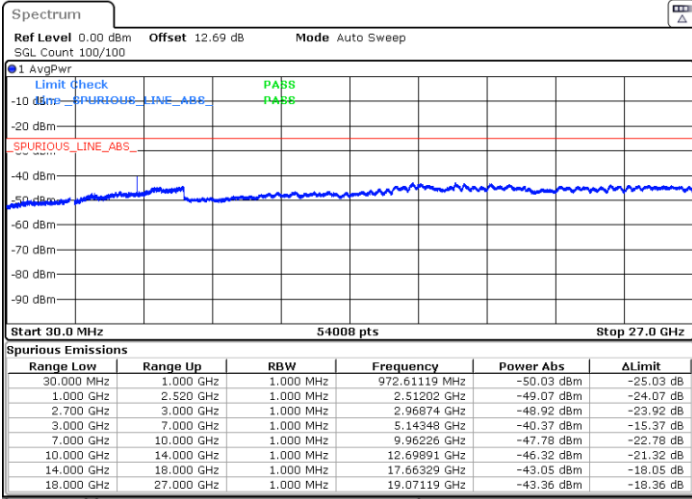
Date: 9 JUN.2022 17:58:45



FR1 n38 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

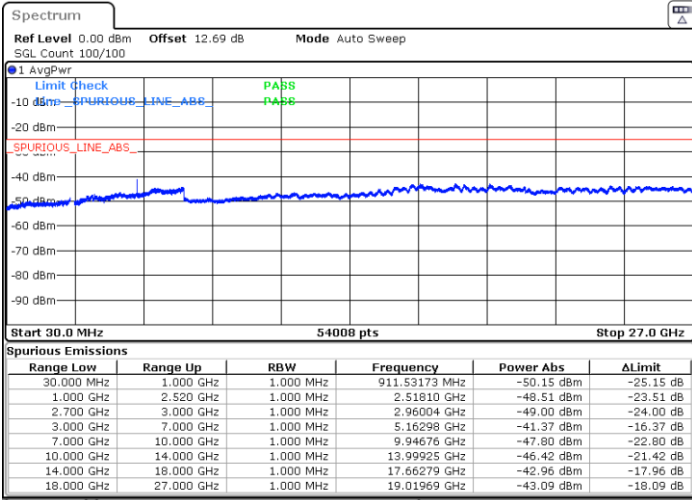
Middle Channel / 1RB1



Date: 9 JUN.2022 17:39:11

Date: 9 JUN.2022 17:55:58

Highest Channel / 1RB1



Date: 9 JUN.2022 17:57:38



Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0033	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0041	
20	Battery End Point	0.0048	

Note:

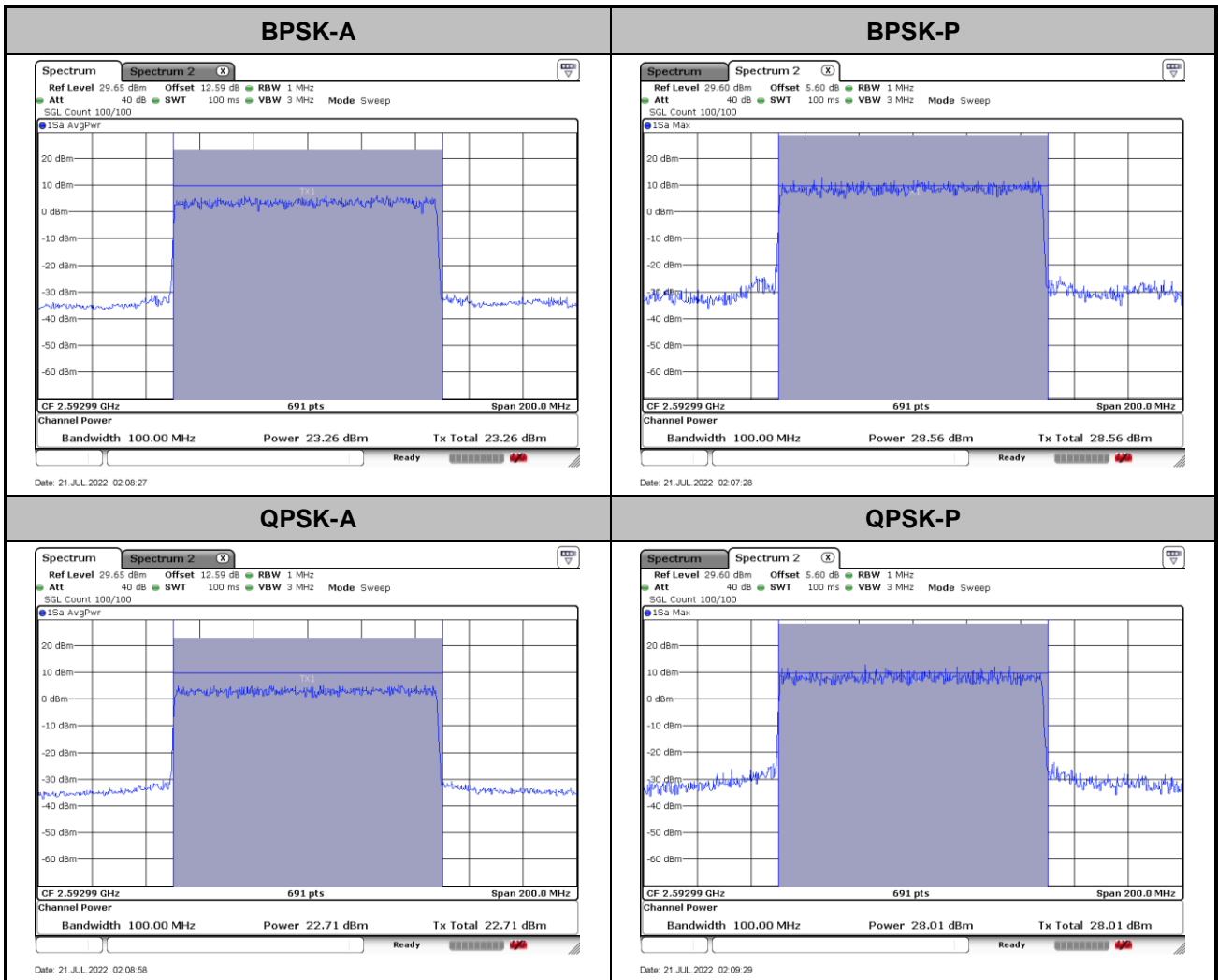
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n41

Peak-to-Average Ratio

Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	20M				Limit: 13dB
RB Size	BPSK	QPSK			Result
Middle CH	5.3	5.3			PASS





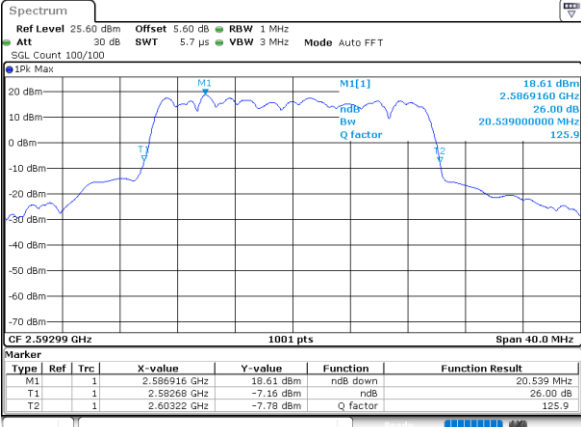
26dB Bandwidth

Mode	FR1 n41 : 26dB BW(20 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	20.54	20.34	20.54	20.38
Mode	FR1 n41 : 26dB BW(30 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.73	29.09	28.93	28.89
Mode	FR1 n41 : 26dB BW(40 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.2	40.2	40.04	40.44
Mode	FR1 n41 : 26dB BW(50 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	49.75	49.75	49.75	49.75
Mode	FR1 n41 : 26dB BW(60 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	60.42	60.42	60.78	60.42
Mode	FR1 n41 : 26dB BW(70 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	70.13	70.13	70.01	70.13
Mode	FR1 n41 : 26dB BW(80 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	80.08	79.92	79.92	79.92
Mode	FR1 n41 : 26dB BW(90 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	92.25	92.43	92.25	92.43
Mode	FR1 n41 : 26dB BW(100 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	102.5	102.3	102.3	102.7



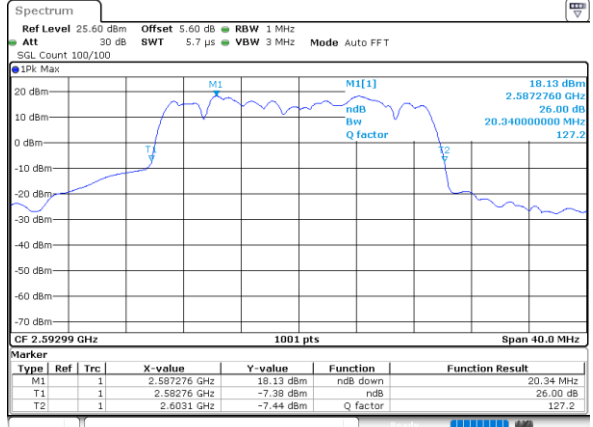
20MHz CP

QPSK



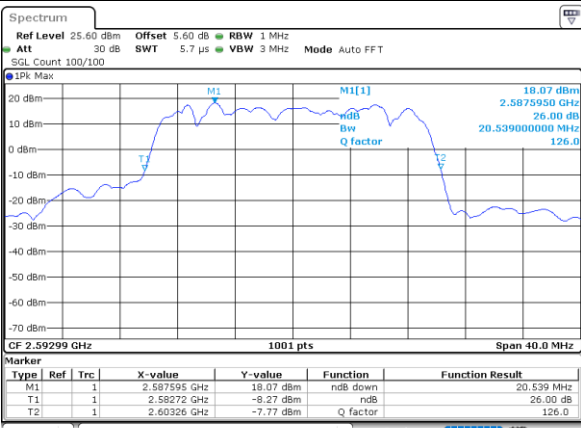
Date: 14, JUN, 2022 13:55:46

16QAM



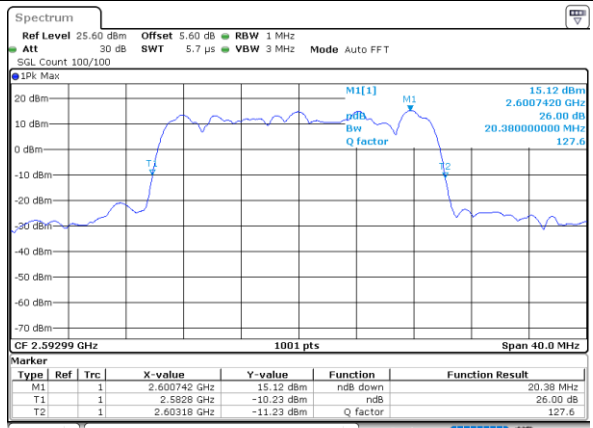
Date: 14, JUN, 2022 13:56:10

64QAM



Date: 14, JUN, 2022 13:56:34

256QAM



Date: 14, JUN, 2022 13:58:44