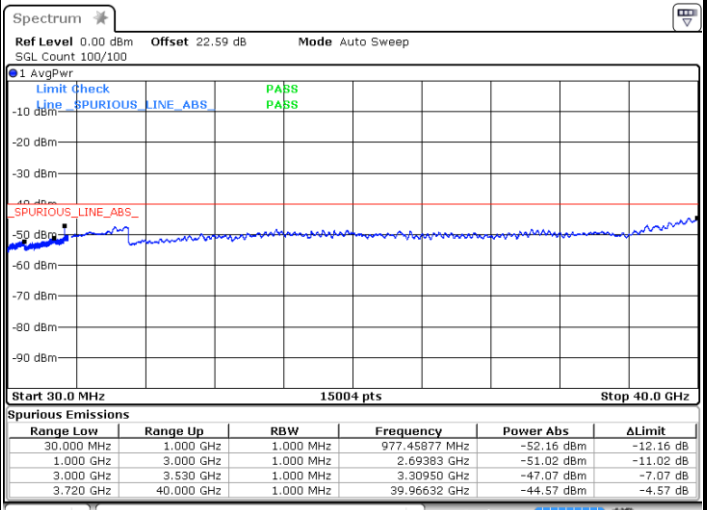
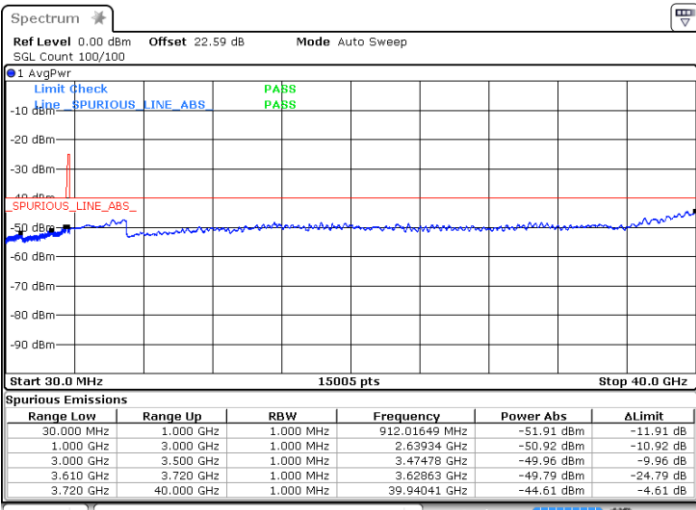




FR1 n48 / 20MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

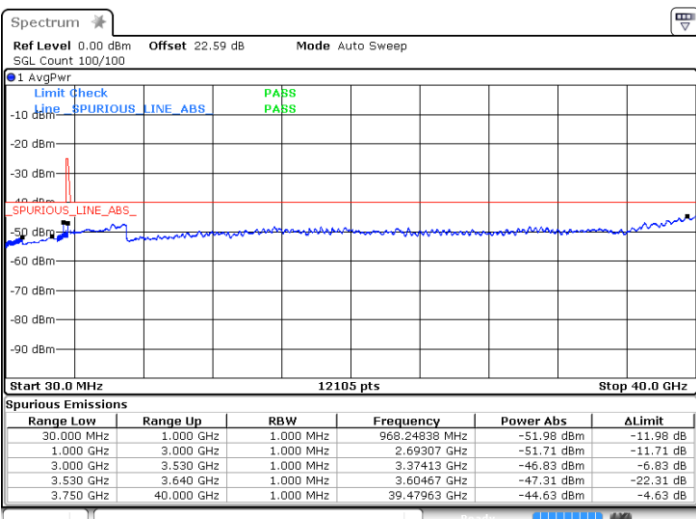
Middle Channel



Date: 27 SEP 2023 23:16:50

Date: 27 SEP 2023 23:18:44

Highest Channel



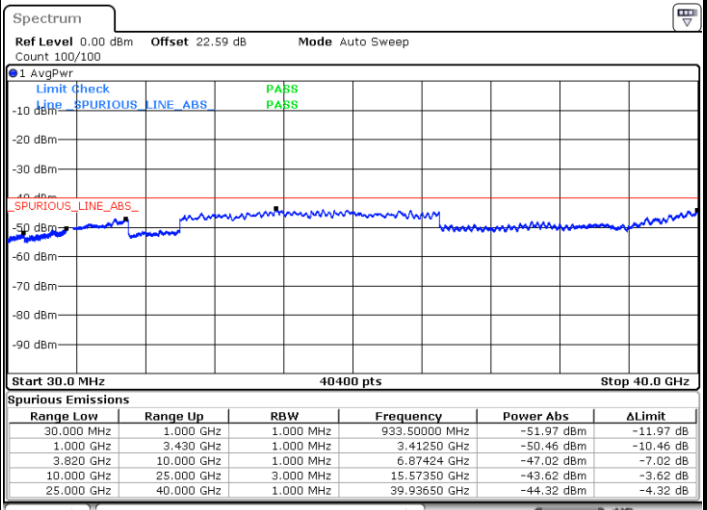
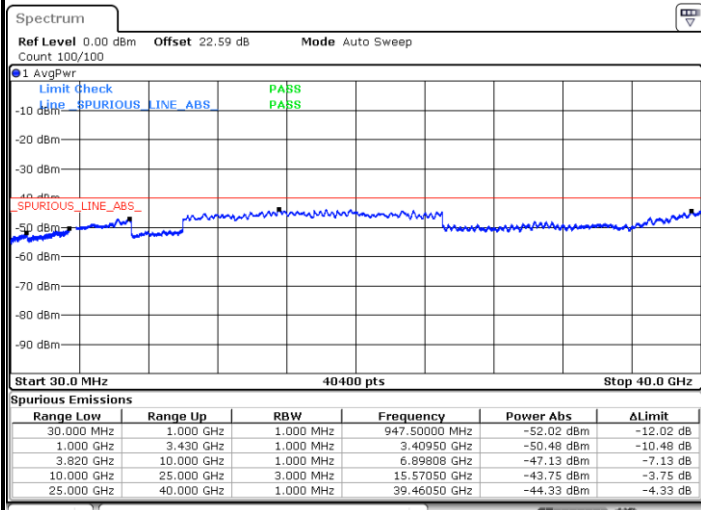
Date: 27 SEP 2023 23:20:03



FR1 n48 / 30MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

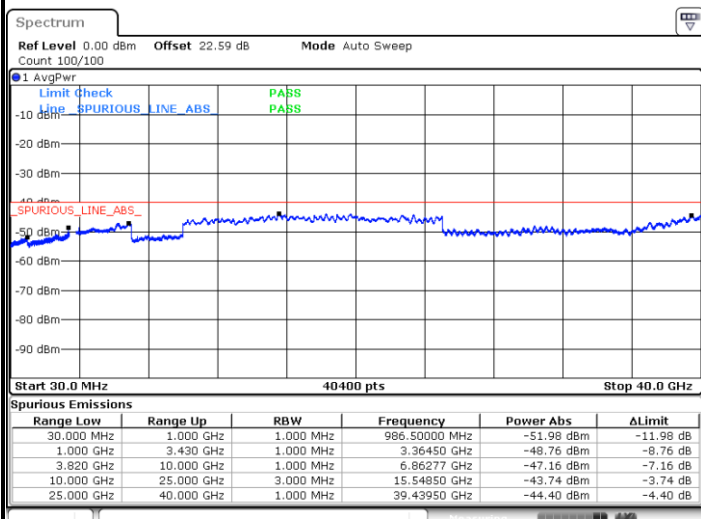
Middle Channel



Date: 27 SEP 2023 23:34:23

Date: 27 SEP 2023 23:35:33

Highest Channel



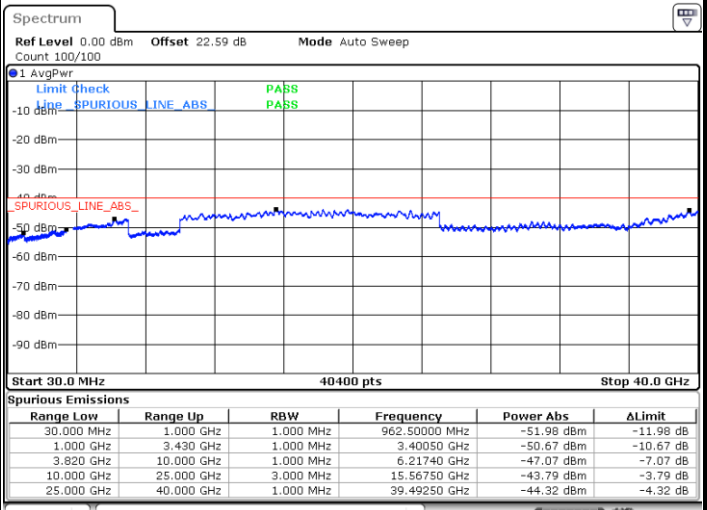
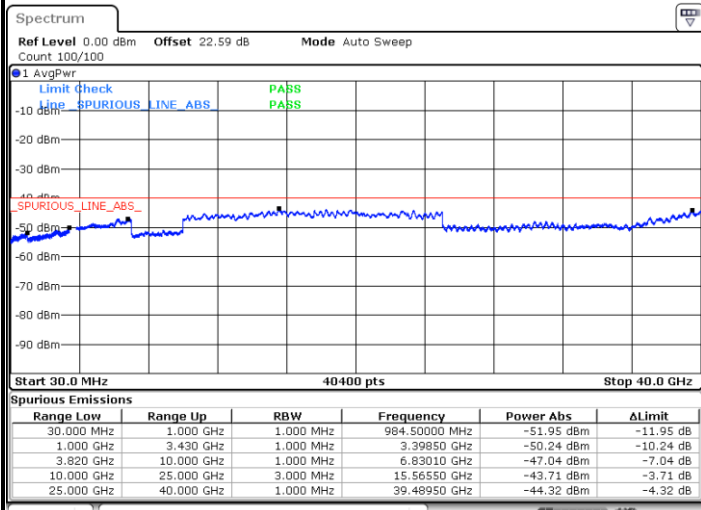
Date: 27 SEP 2023 23:36:48



FR1 n48 / 40MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

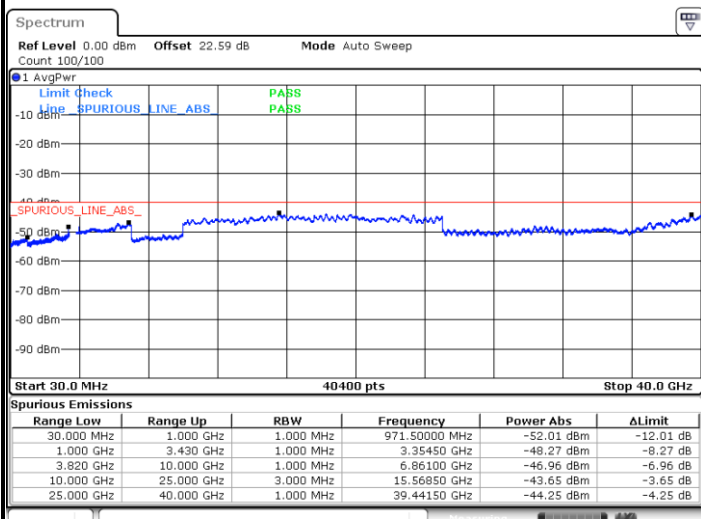
Middle Channel



Date: 28 SEP 2023 00:37:48

Date: 28 SEP 2023 00:35:29

Highest Channel



Date: 28 SEP 2023 00:34:02



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Frequency Offset (Δf) (ppm)	Result
50	Normal Voltage	2.2	PASS
40	Normal Voltage	2.0	
30	Normal Voltage	2.3	
20(Ref.)	Normal Voltage	2.1	
10	Normal Voltage	2.3	
0	Normal Voltage	2.2	
-10	Normal Voltage	2.2	
-20	Normal Voltage	2.2	
-30	Normal Voltage	2.3	
20	Maximum Voltage	2.1	
20	Normal Voltage	2.1	
20	Battery End Point	2.2	

Note:

- 1. Normal Voltage = 48 V. ; Battery End Point (BEP) = 42.5 V. ; Maximum Voltage = 57 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



<MIMO Mode>

MIMO <Ant. 6>

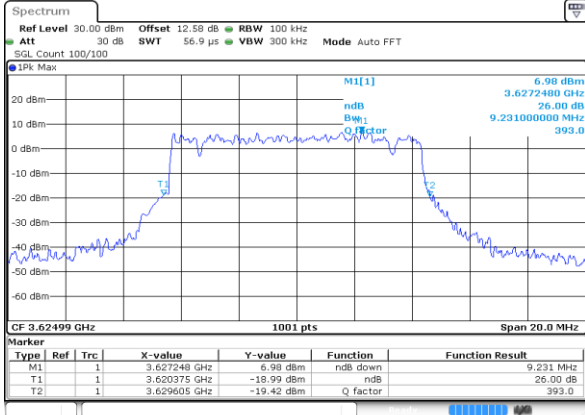
26dB Bandwidth

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.23	9.43	14.65	14.33	19.42	19.02	29.13	29.07
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.59	8.95	14.51	15.62	19.10	19.02	29.07	28.95
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	40.28	40.76						
Mod.	64QAM	256QAM						
Middle CH	40.44	40.44						



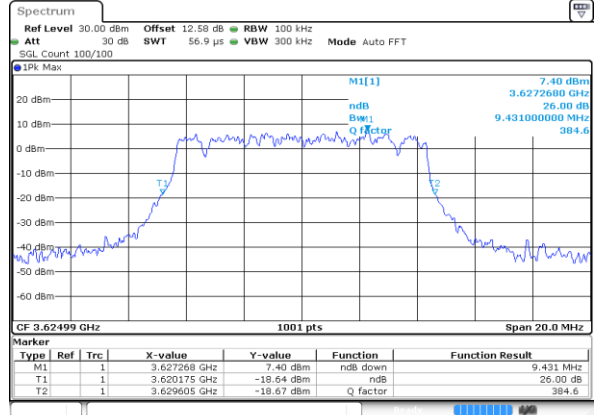
FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



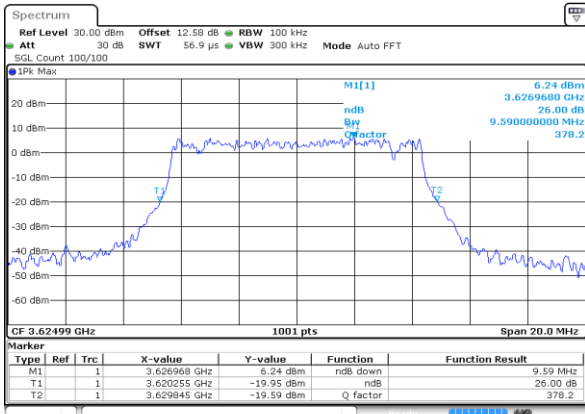
Date: 27 SEP 2023 19:35:01

16QAM



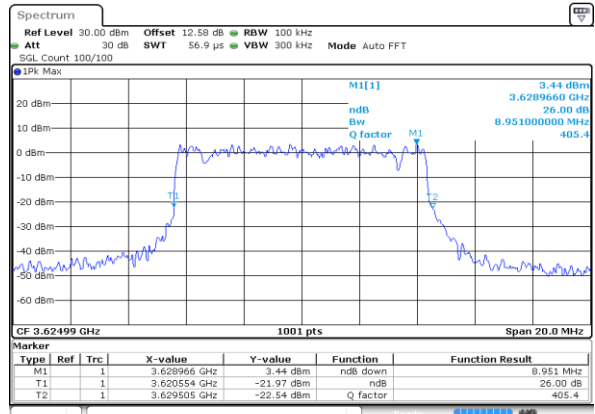
Date: 27 SEP 2023 19:35:53

64QAM



Date: 27 SEP 2023 19:36:47

256QAM

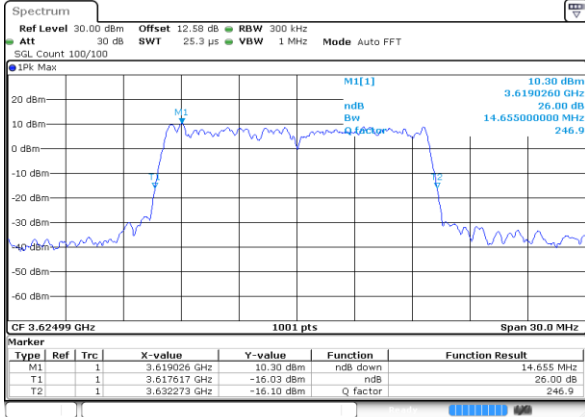


Date: 27 SEP 2023 19:37:29



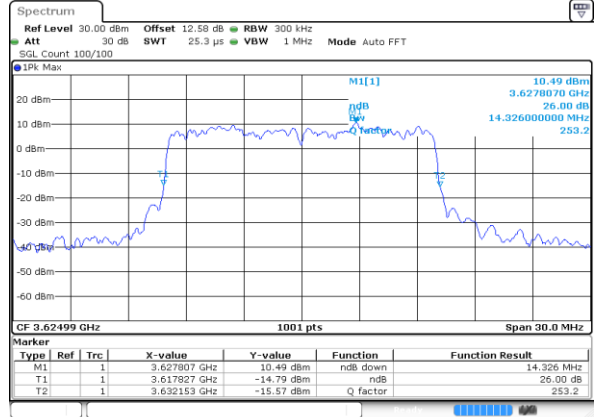
FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



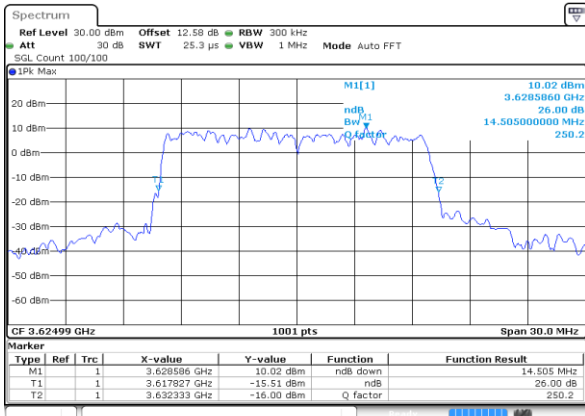
Date: 27 SEP 2023 19:43:24

16QAM



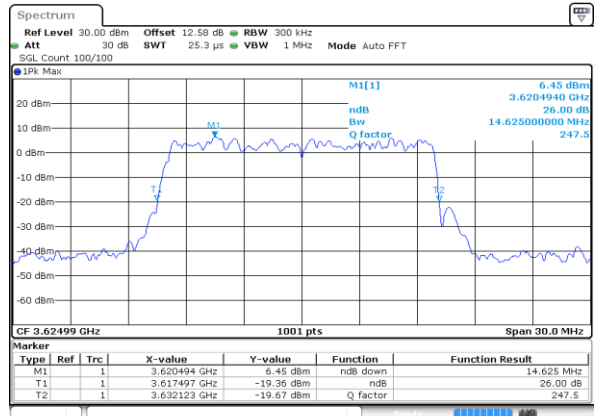
Date: 27 SEP 2023 19:44:03

64QAM



Date: 27 SEP 2023 19:44:38

256QAM

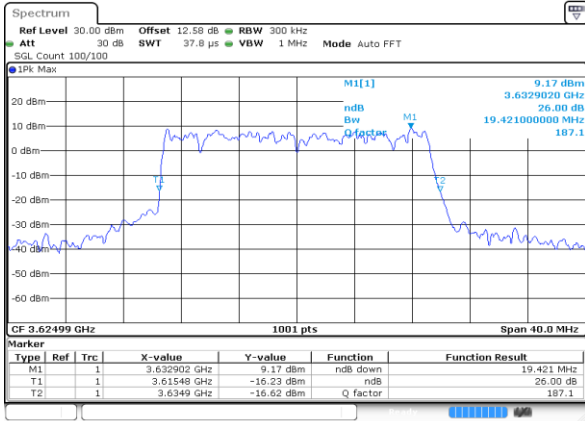


Date: 27 SEP 2023 19:45:11



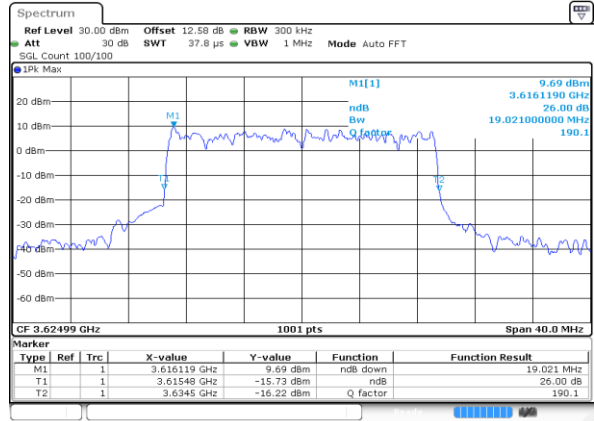
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



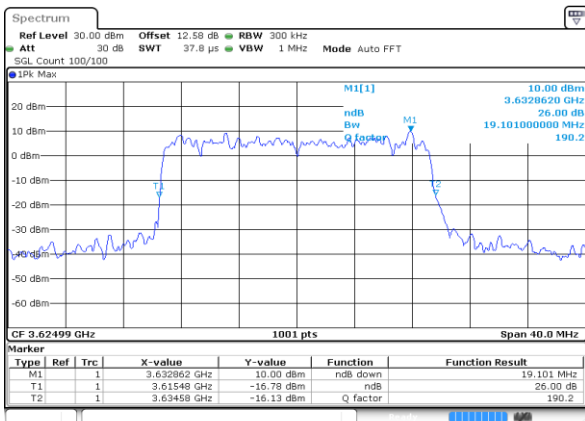
Date: 27 SEP 2023 19:42:07

16QAM



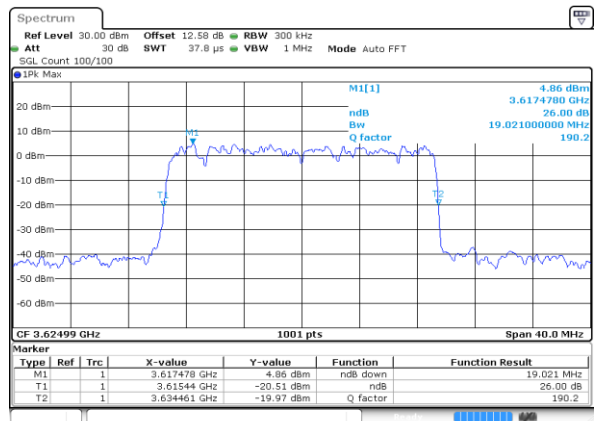
Date: 27 SEP 2023 19:41:14

64QAM



Date: 27 SEP 2023 19:40:51

256QAM

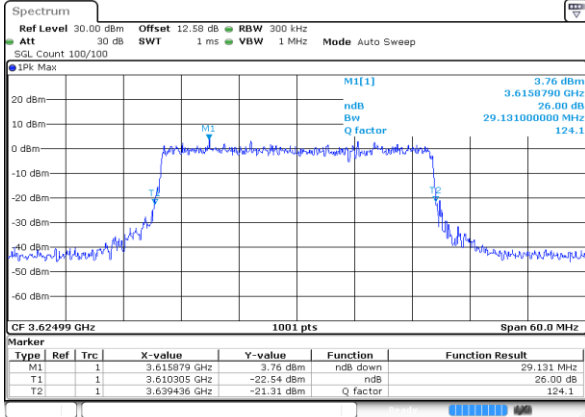


Date: 27 SEP 2023 19:38:33



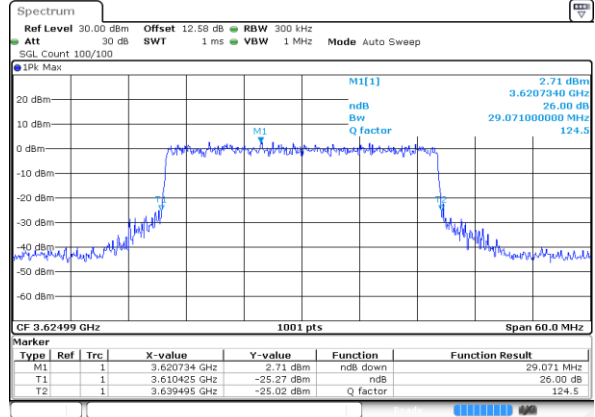
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



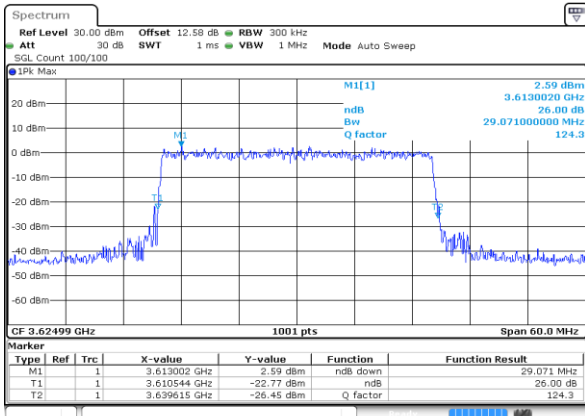
Date: 27 SEP 2023 19:48:51

16QAM



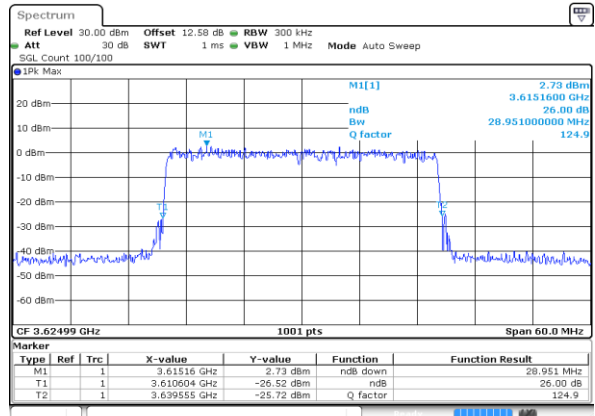
Date: 27 SEP 2023 19:48:18

64QAM



Date: 27 SEP 2023 19:47:19

256QAM

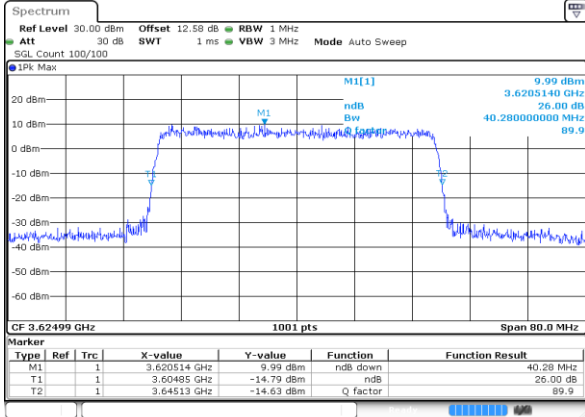


Date: 27 SEP 2023 19:46:13



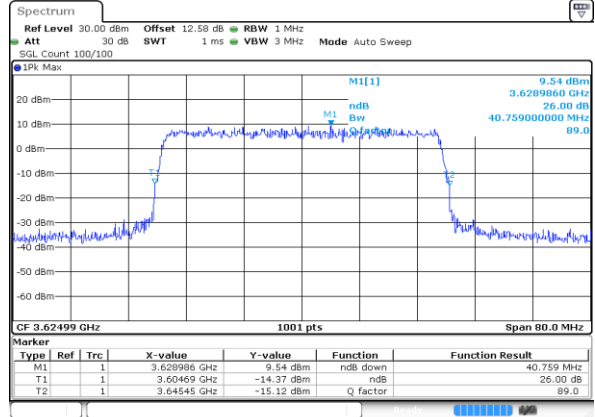
FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



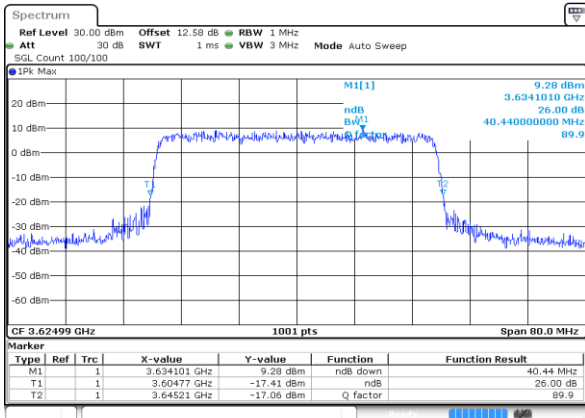
Date: 27 SEP 2023 19:50:14

16QAM



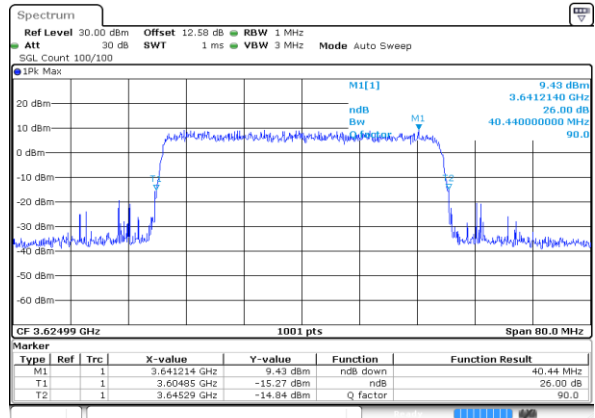
Date: 27 SEP 2023 19:50:47

64QAM



Date: 27 SEP 2023 19:51:28

256QAM



Date: 27 SEP 2023 19:52:30



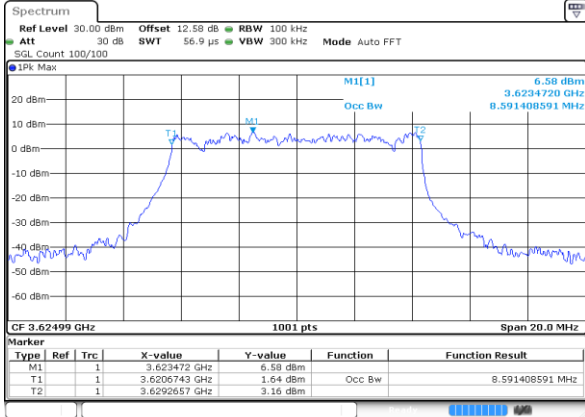
Occupied Bandwidth

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10_M_QP	10_M_16Q	15_M_QP	15_M_16Q	20_M_QP	20_M_16Q	25_M_QP	25_M_16Q
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10_M_64Q	10_M_256	15_M_64Q	15_M_256	20_M_64Q	20_M_256	25_M_64Q	25_M_256
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	30_M_QP	30_M_16Q						
Mod.	64QAM	256QAM						
Middle CH	30_M_64Q	30_M_256						



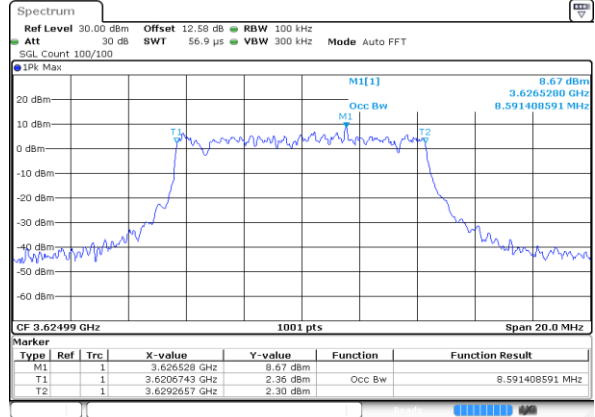
FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



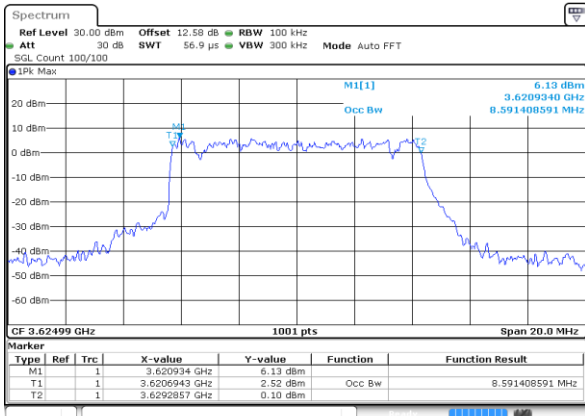
Date: 27 SEP 2023 19:35:17

16QAM



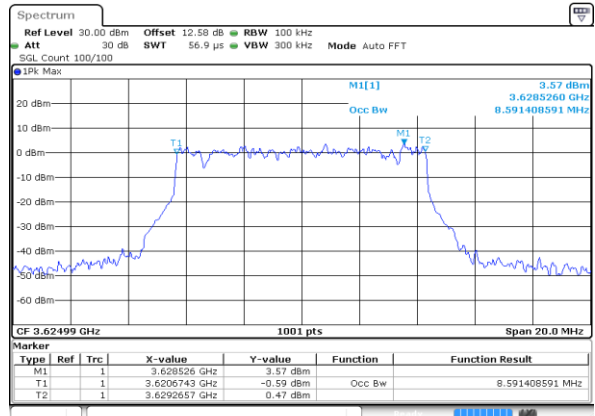
Date: 27 SEP 2023 19:35:40

64QAM



Date: 27 SEP 2023 19:37:06

256QAM

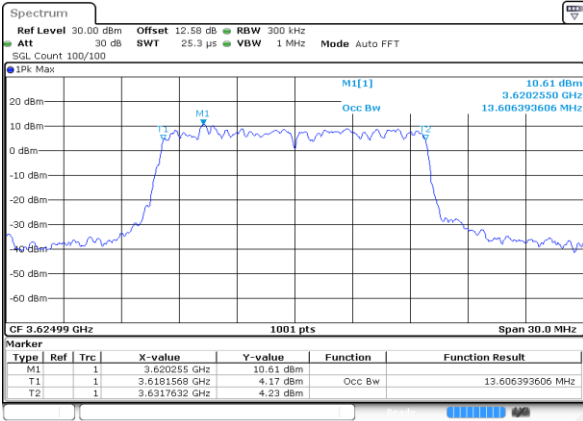


Date: 27 SEP 2023 19:38:26



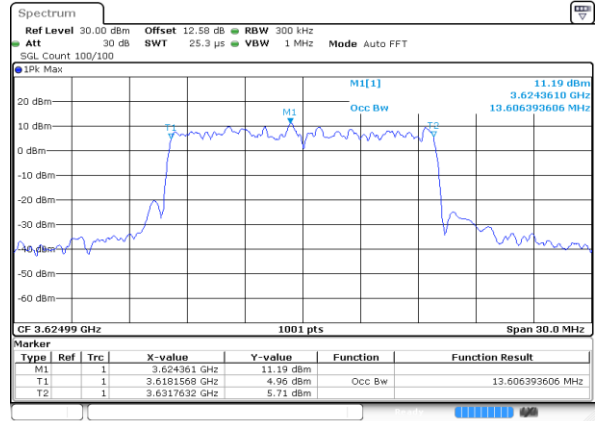
FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



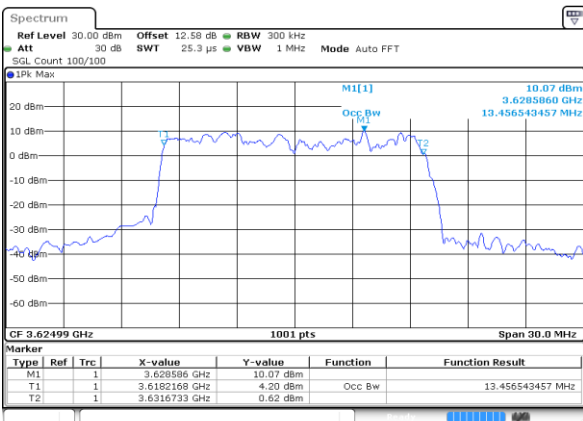
Date: 27 SEP 2023 19:43:08

16QAM



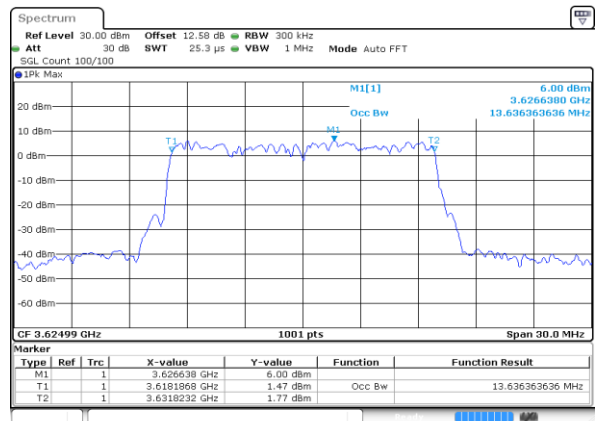
Date: 27 SEP 2023 19:43:52

64QAM



Date: 27 SEP 2023 19:44:27

256QAM

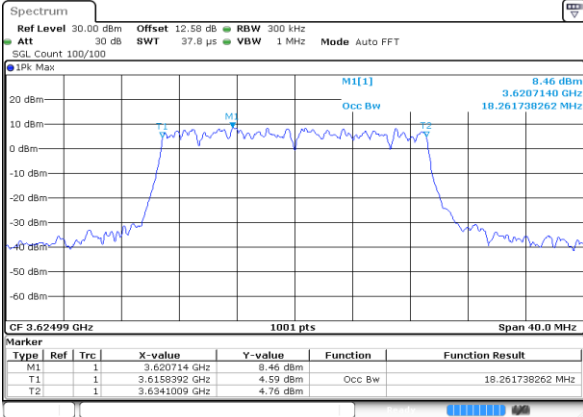


Date: 27 SEP 2023 19:44:56



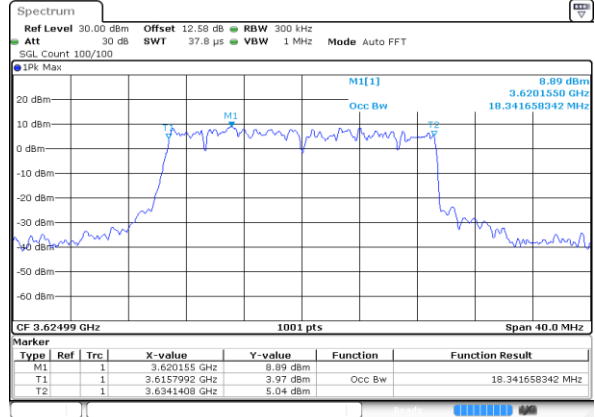
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



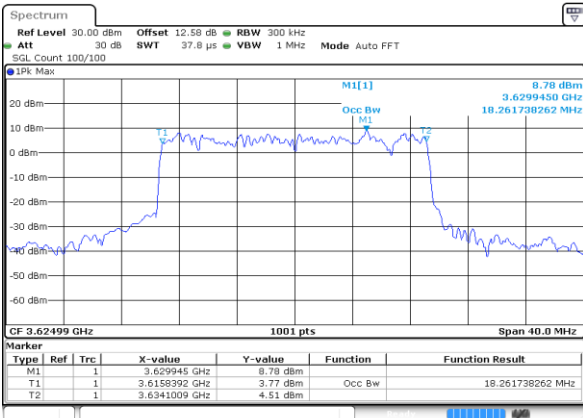
Date: 27 SEP 2023 19:41:57

16QAM



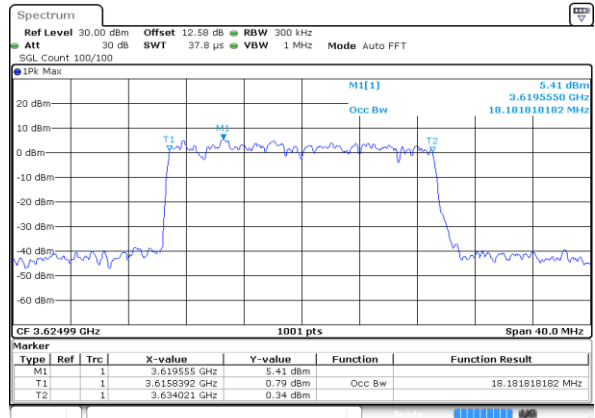
Date: 27 SEP 2023 19:41:24

64QAM



Date: 27 SEP 2023 19:40:13

256QAM

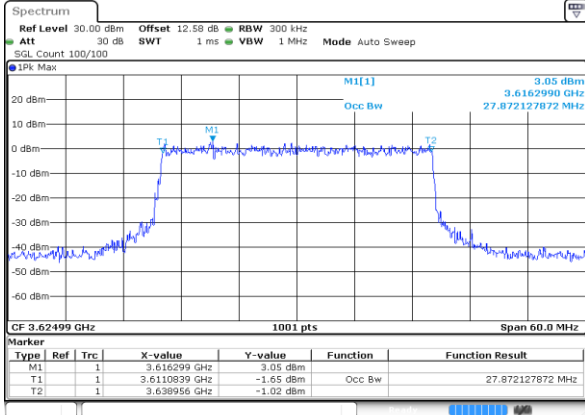


Date: 27 SEP 2023 19:38:51

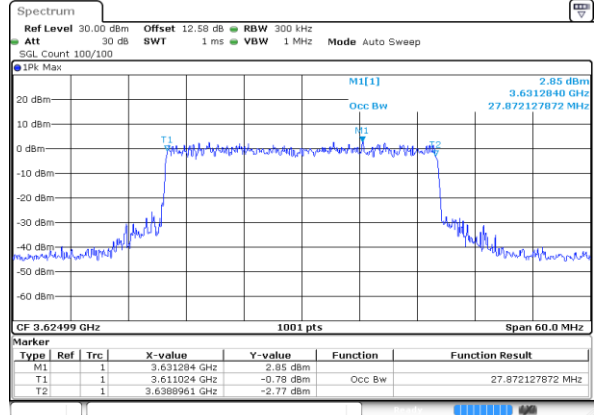


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

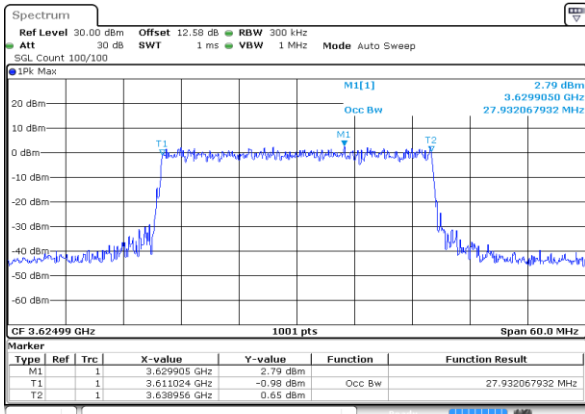
QPSK



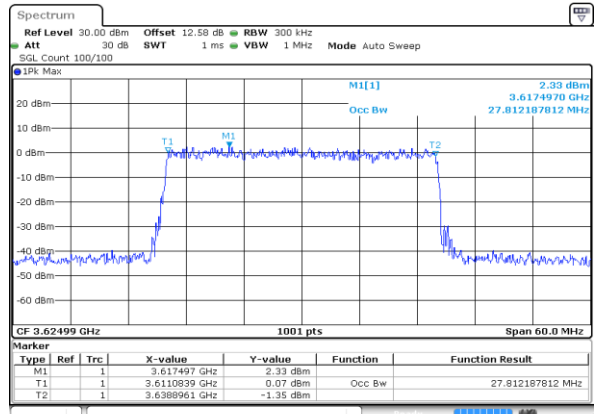
16QAM



64QAM



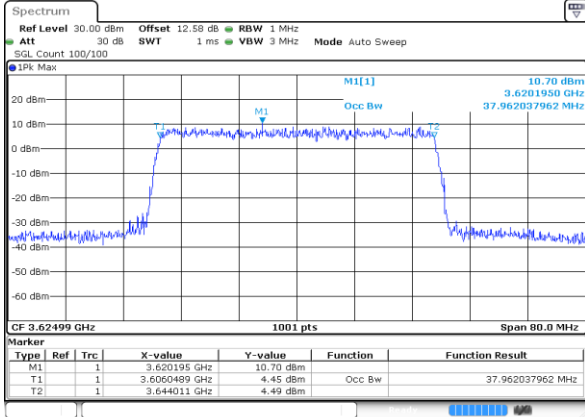
256QAM





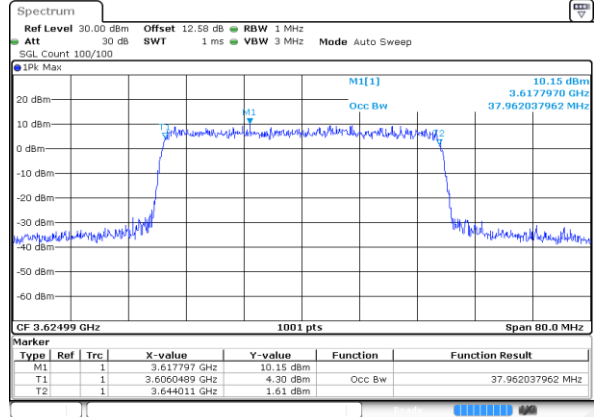
FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



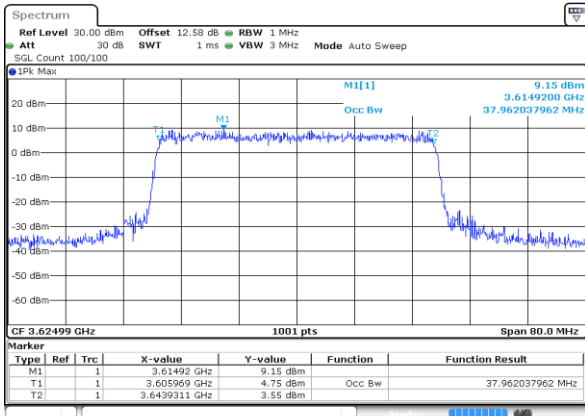
Date: 27 SEP 2023 19:50:01

16QAM



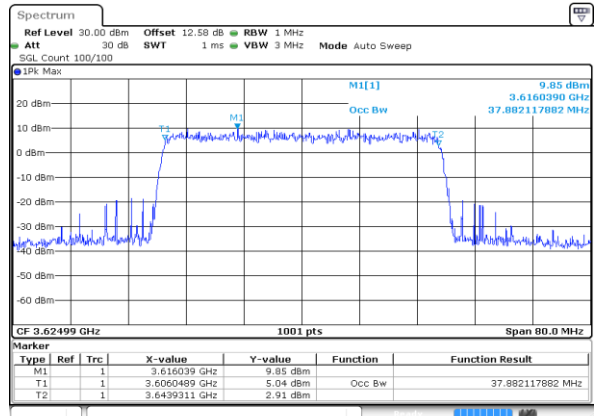
Date: 27 SEP 2023 19:50:35

64QAM



Date: 27 SEP 2023 19:51:08

256QAM



Date: 27 SEP 2023 19:52:09



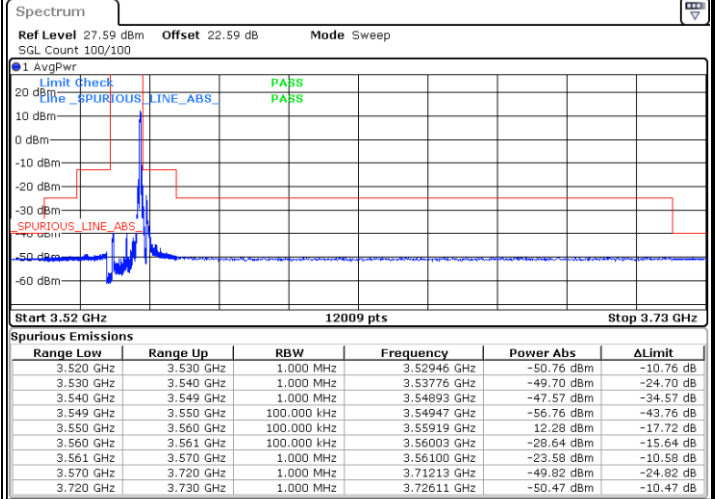
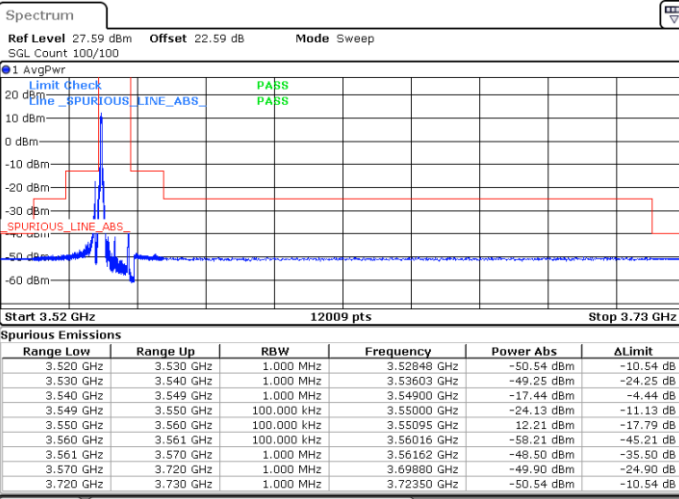
Unwanted Emission (MASK)

FR1 n48 / 10MHz / CP OFDM / QPSK

Lowest Channel

1RB0

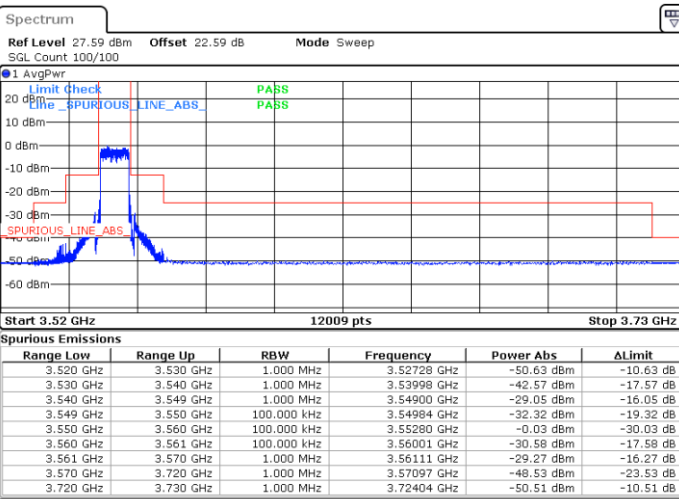
1RBmax



Date: 27.SEP.2023 19:14:00

Date: 27.SEP.2023 19:14:42

Full RB



Date: 27.SEP.2023 19:11:02

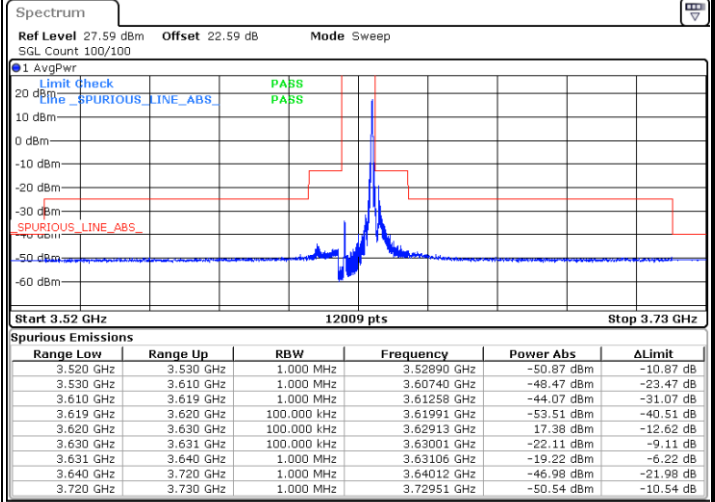
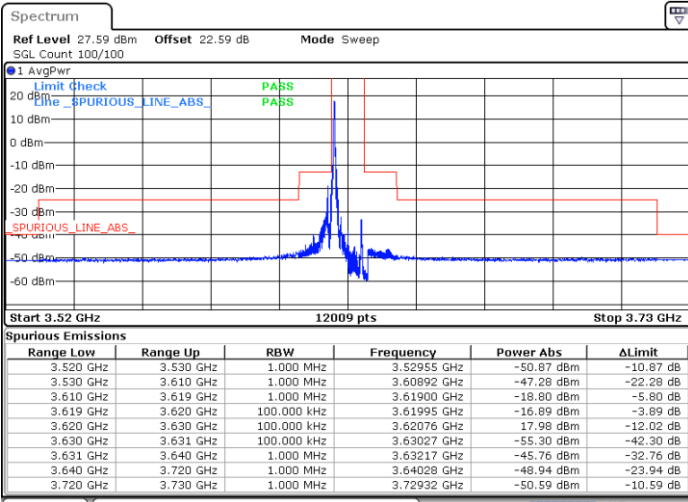


FR1 n48 / 10MHz / CP OFDM / QPSK

Middle Channel

1RB0

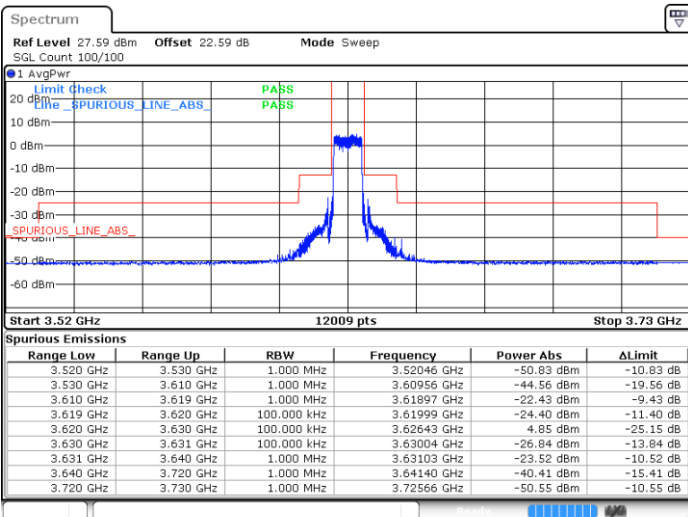
1RBmax



Date: 27.SEP.2023 19:18:48

Date: 27.SEP.2023 19:18:17

Full RB



Date: 27.SEP.2023 19:22:56

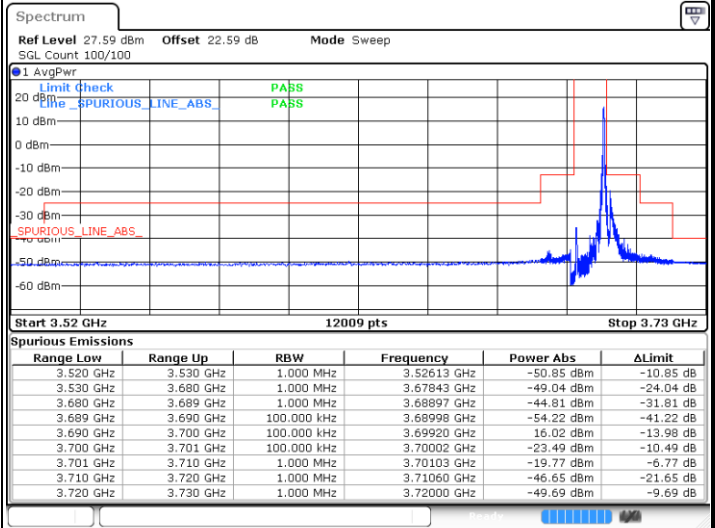
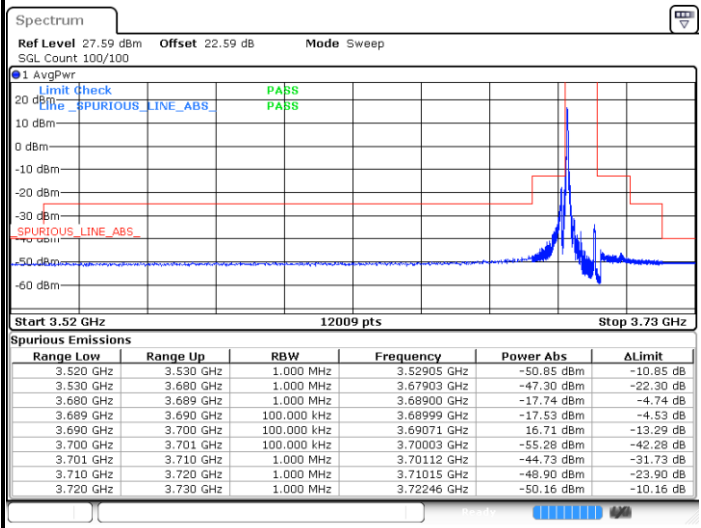


FR1 n48 / 10MHz / CP OFDM / QPSK

Highest Channel

1RB0

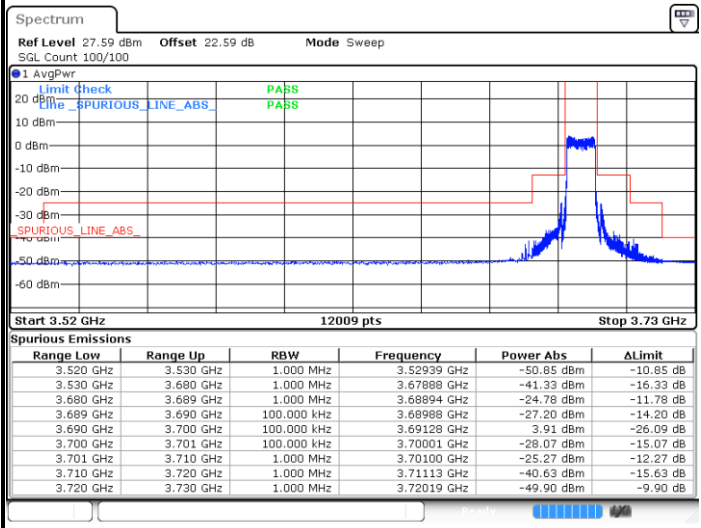
1RBmax



Date: 27.SEP.2023 19:27:23

Date: 27.SEP.2023 19:28:12

Full RB



Date: 27.SEP.2023 19:23:41

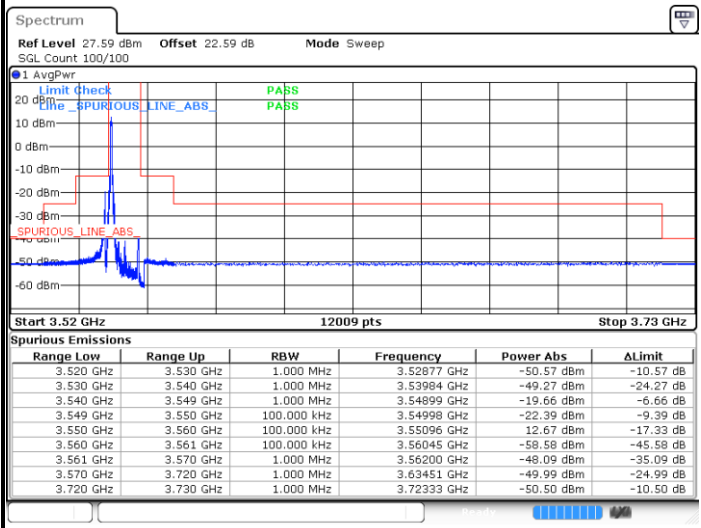


FR1 n48 / 10MHz / CP OFDM / 16QAM

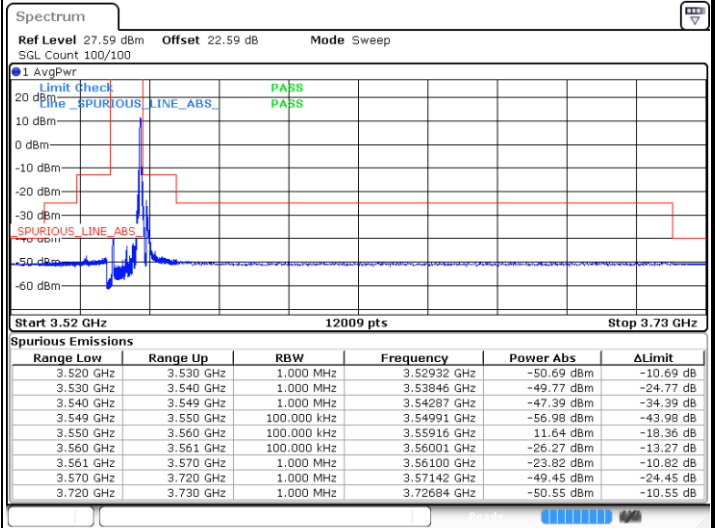
Lowest Channel

1RB0

1RBmax

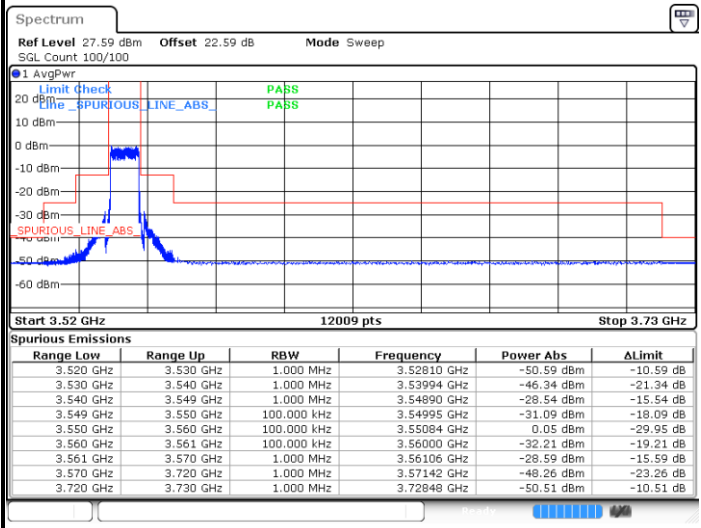


Date: 27.SEP.2023 19:13:37



Date: 27.SEP.2023 19:15:06

Full RB



Date: 27.SEP.2023 19:11:27

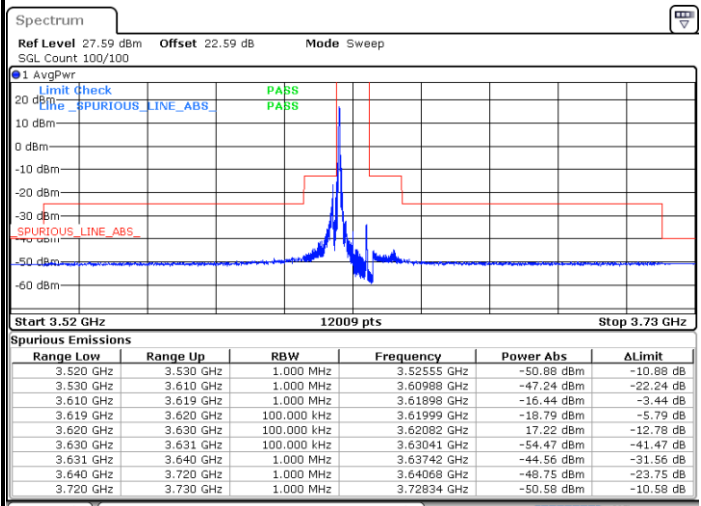


FR1 n48 / 10MHz / CP OFDM / 16QAM

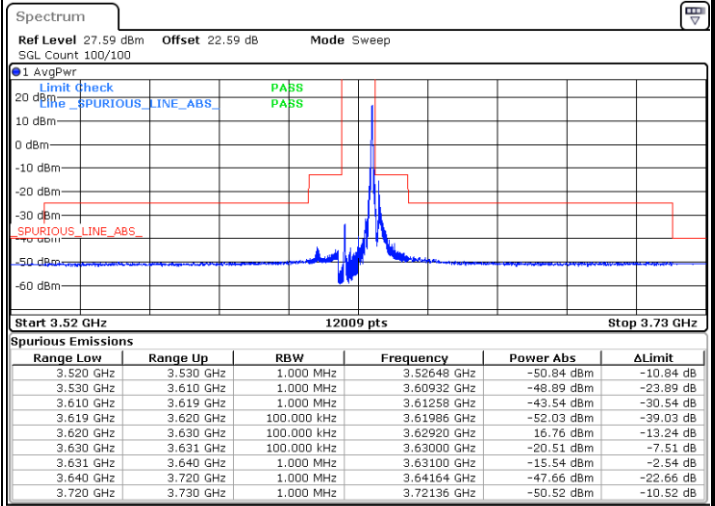
Middle Channel

1RB0

1RBmax

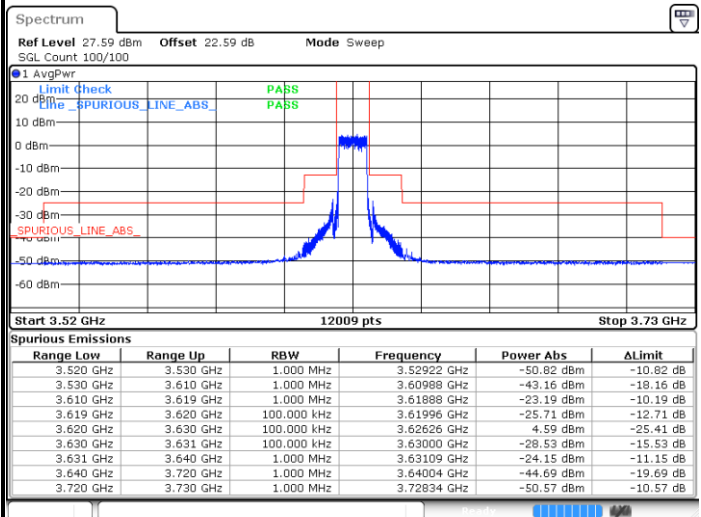


Date: 27.SEP.2023 19:19:16



Date: 27.SEP.2023 19:17:48

Full RB



Date: 27.SEP.2023 19:22:04

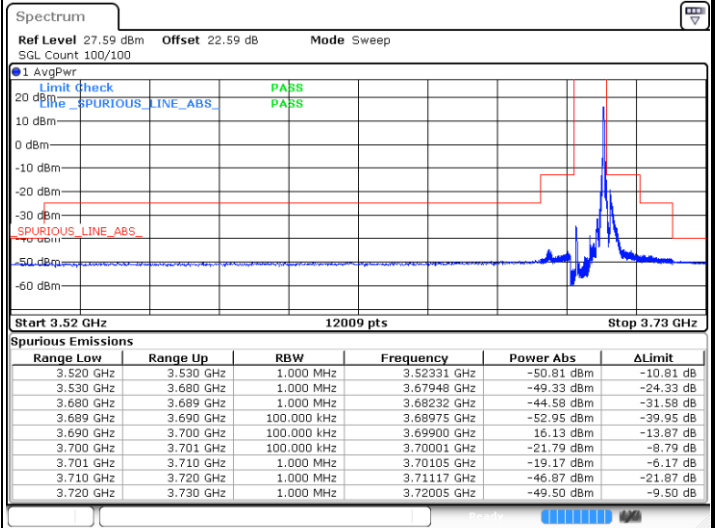
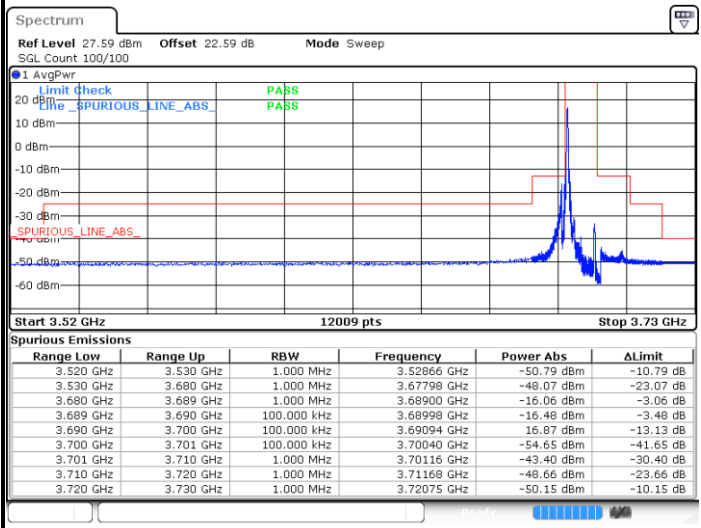


FR1 n48 / 10MHz / CP OFDM / 16QAM

Highest Channel

1RB0

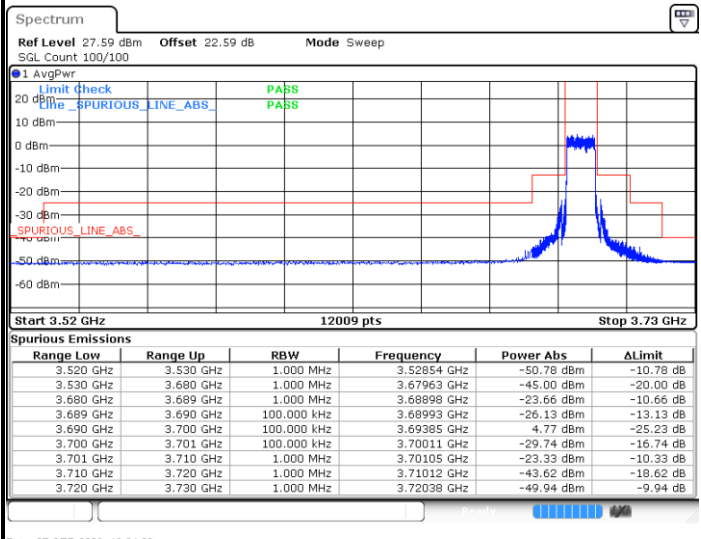
1RBmax



Date: 27.SEP.2023 19:26:51

Date: 27.SEP.2023 19:28:45

Full RB



Date: 27.SEP.2023 19:24:09

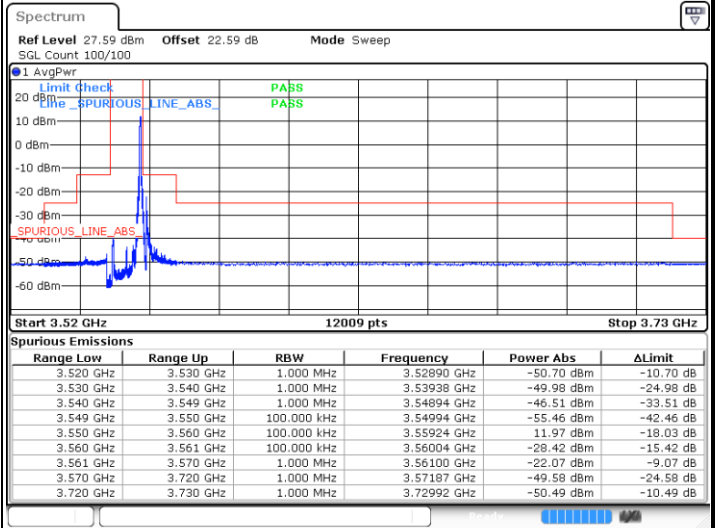
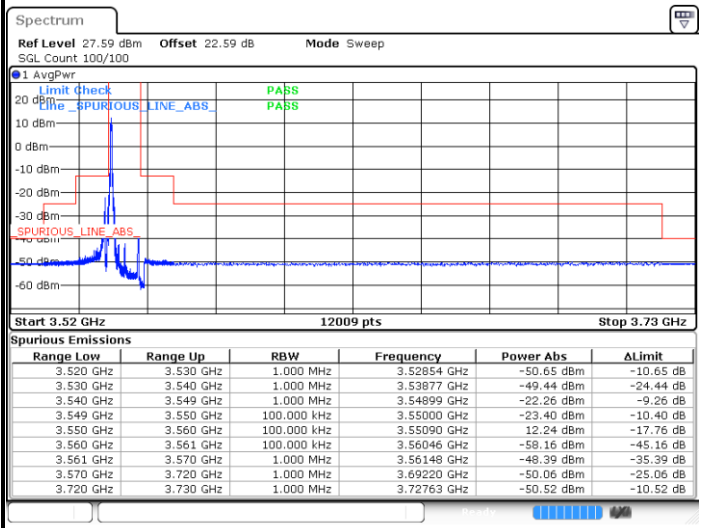


FR1 n48 / 10MHz / CP OFDM / 64QAM

Lowest Channel

1RB0

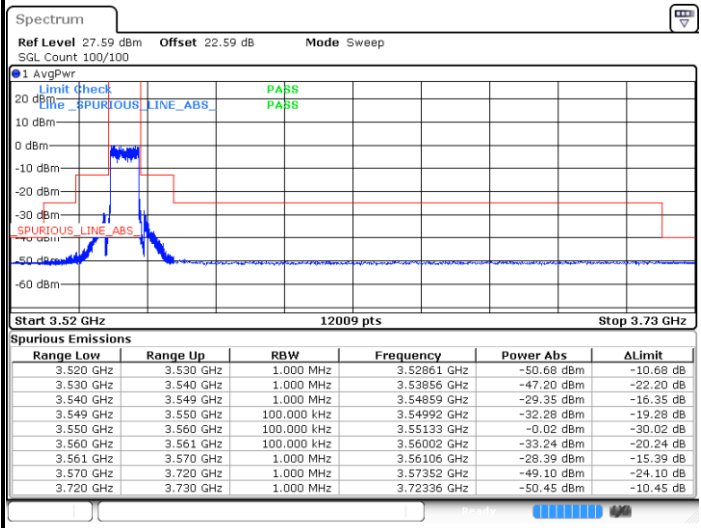
1RBmax



Date: 27.SEP.2023 19:13:12

Date: 27.SEP.2023 19:15:39

Full RB



Date: 27.SEP.2023 19:11:52

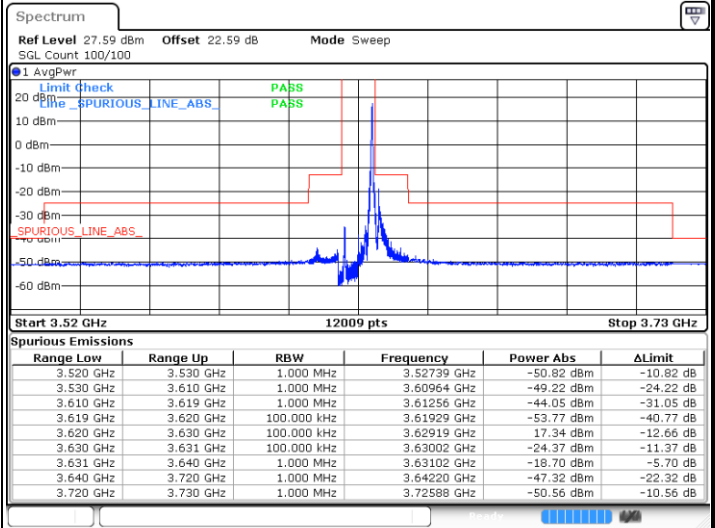
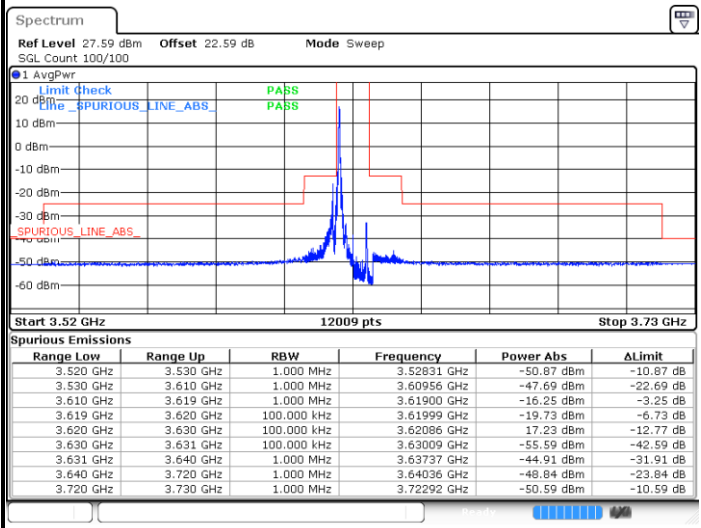


FR1 n48 / 10MHz / CP OFDM / 64QAM

Middle Channel

1RB0

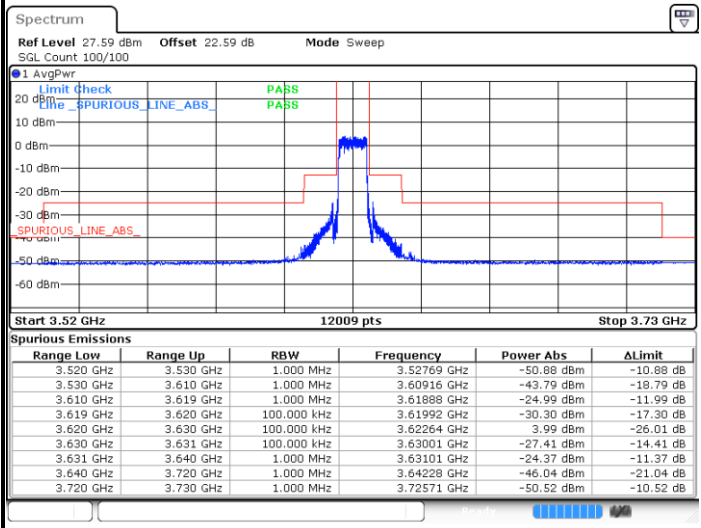
1RBmax



Date: 27.SEP.2023 19:19:45

Date: 27.SEP.2023 19:17:18

Full RB



Date: 27.SEP.2023 19:21:23

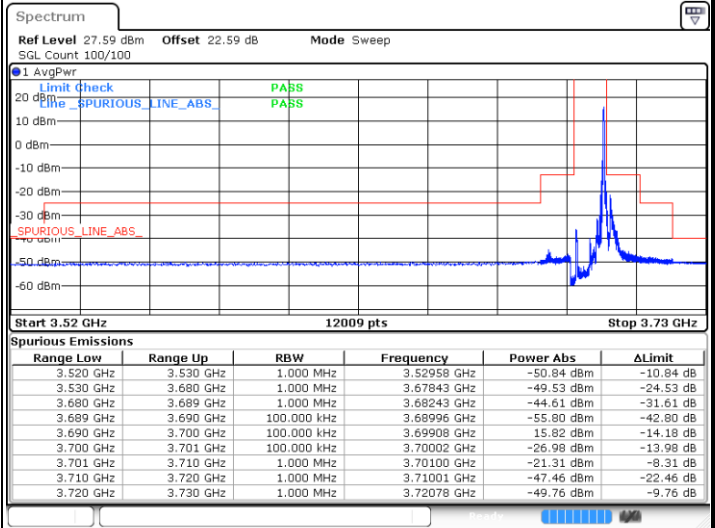
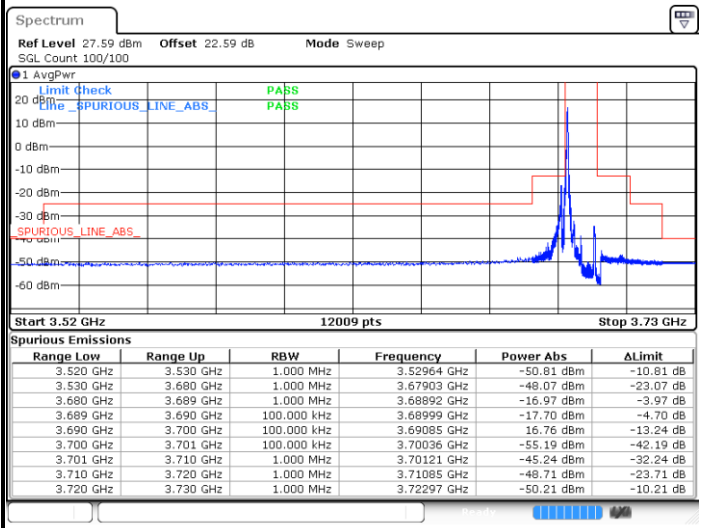


FR1 n48 / 10MHz / CP OFDM / 64QAM

Highest Channel

1RB0

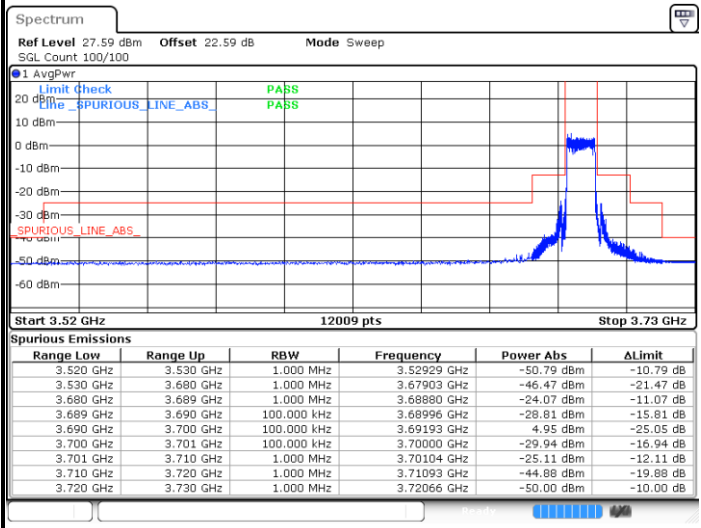
1RBmax



Date: 27.SEP.2023 19:26:27

Date: 27.SEP.2023 19:29:11

Full RB



Date: 27.SEP.2023 19:24:42

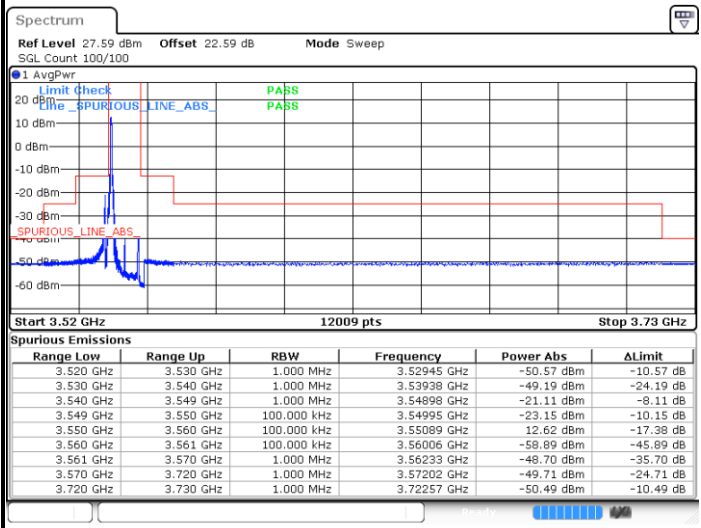


FR1 n48 / 10MHz / CP OFDM / 256QAM

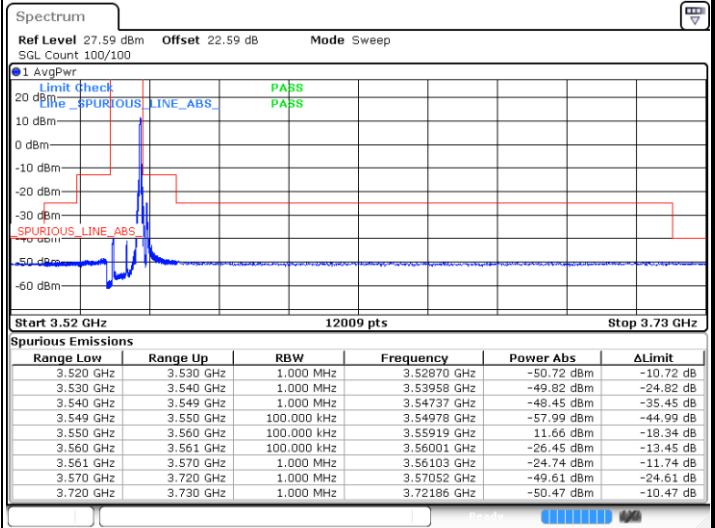
Lowest Channel

1RB0

1RBmax

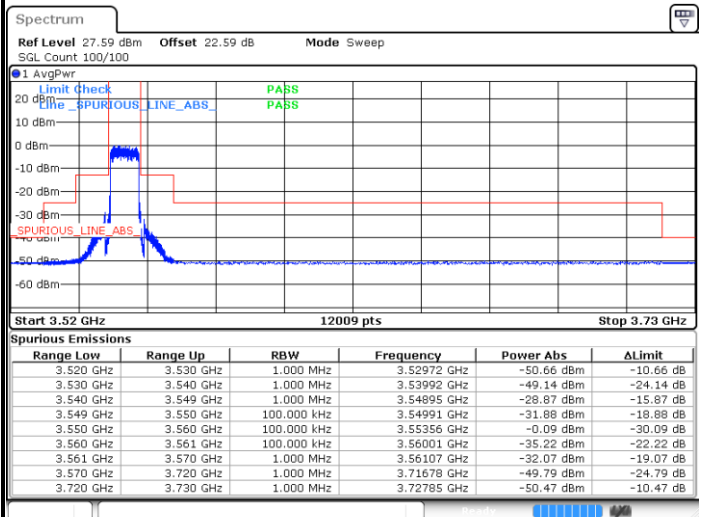


Date: 27.SEP.2023 19:12:49



Date: 27.SEP.2023 19:16:03

Full RB



Date: 27.SEP.2023 19:12:21

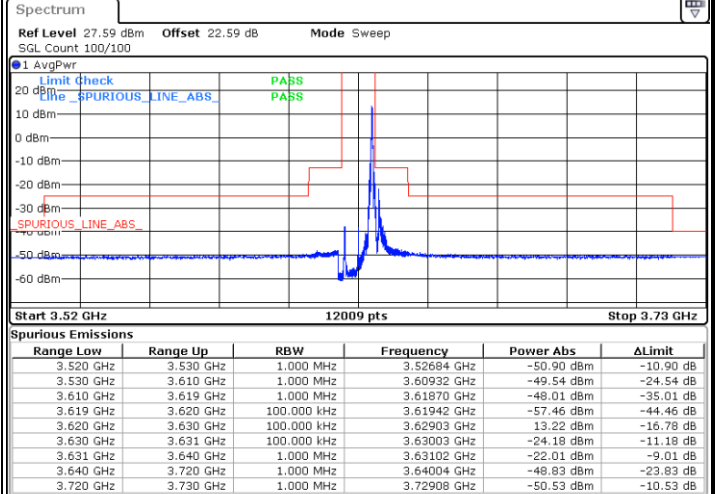
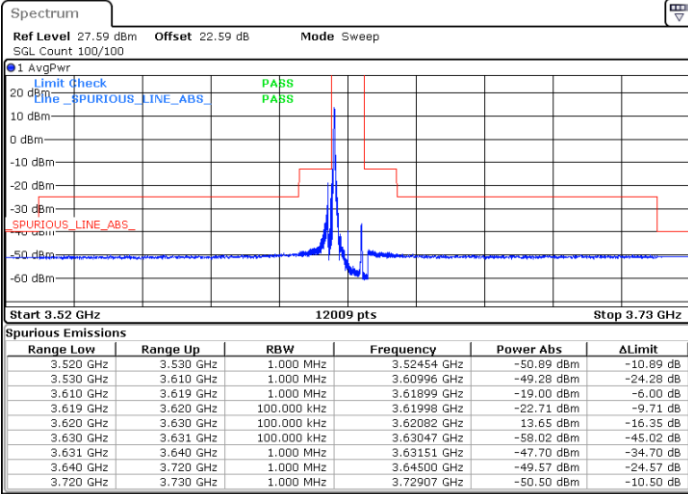


FR1 n48 / 10MHz / CP OFDM / 256QAM

Middle Channel

1RB0

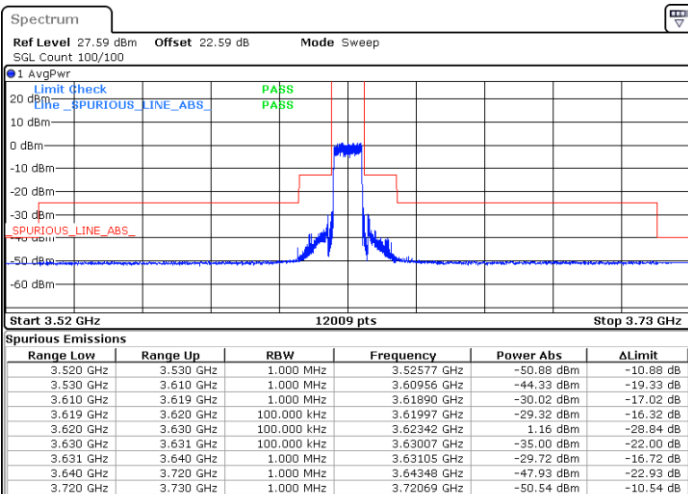
1RBmax



Date: 27.SEP.2023 19:20:13

Date: 27.SEP.2023 19:16:48

Full RB



Date: 27.SEP.2023 19:20:56

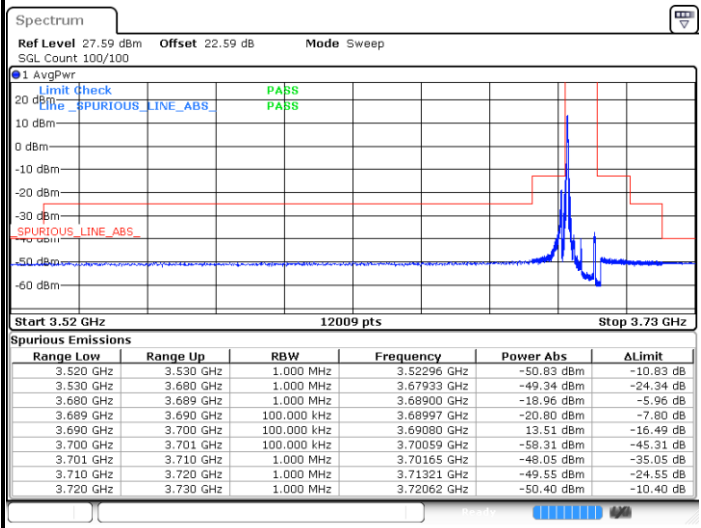


FR1 n48 / 10MHz / CP OFDM / 256QAM

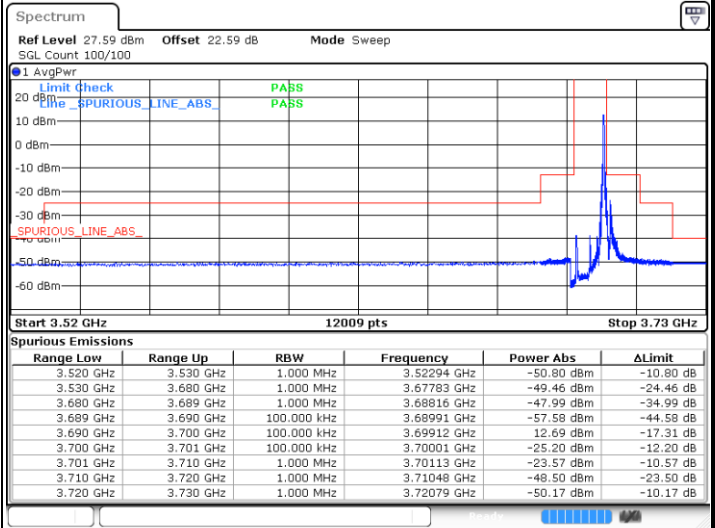
Highest Channel

1RB0

1RBmax

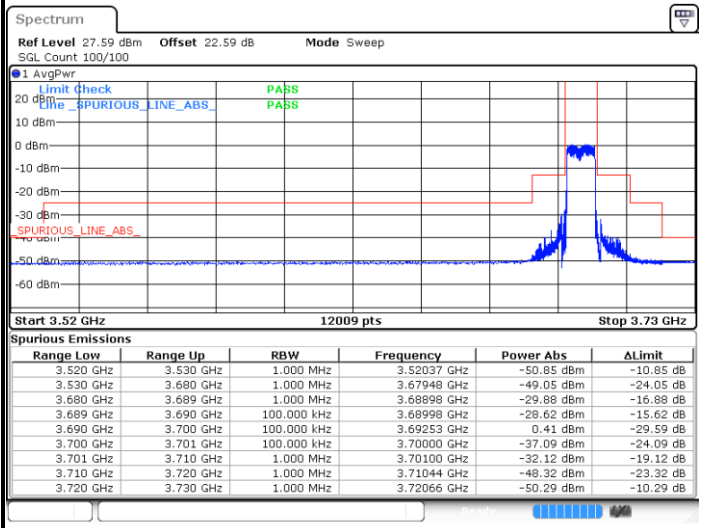


Date: 27.SEP.2023 19:25:38



Date: 27.SEP.2023 19:29:48

Full RB



Date: 27.SEP.2023 19:25:06

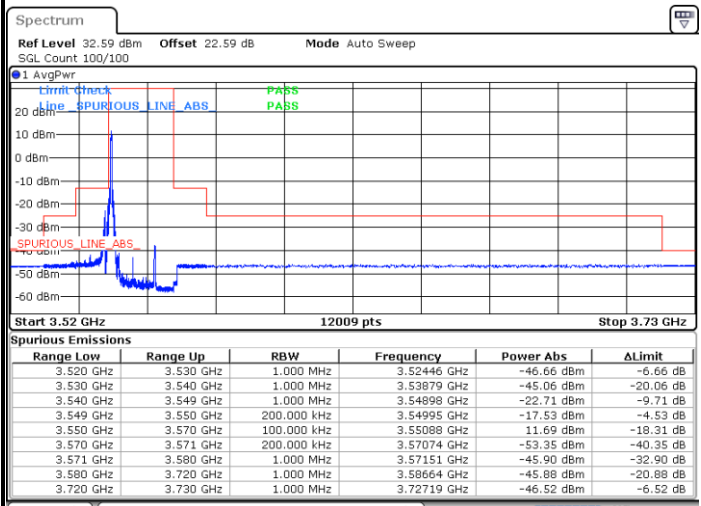


FR1 n48 / 15MHz / CP OFDM / QPSK

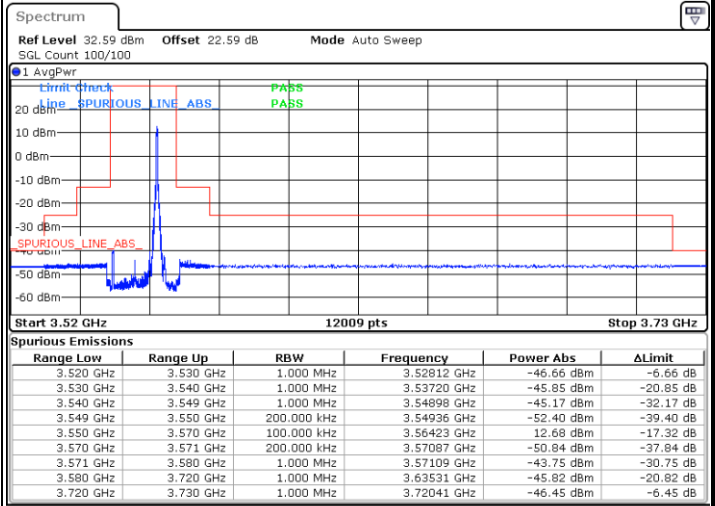
Lowest Channel

1RB0

1RBmax

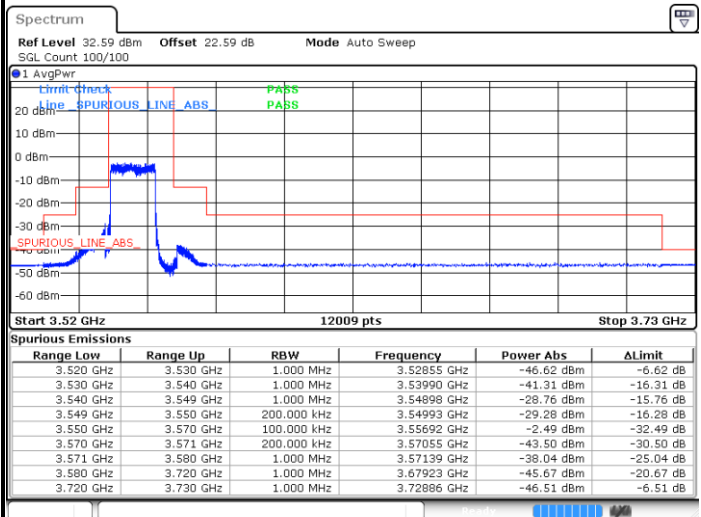


Date: 27.SEP.2023 18:55:08



Date: 27.SEP.2023 18:55:55

Full RB



Date: 27.SEP.2023 18:49:20

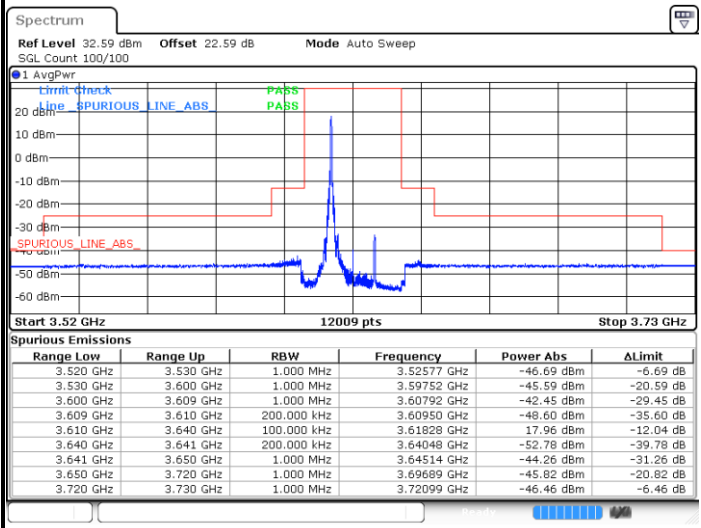


FR1 n48 / 15MHz / CP OFDM / QPSK

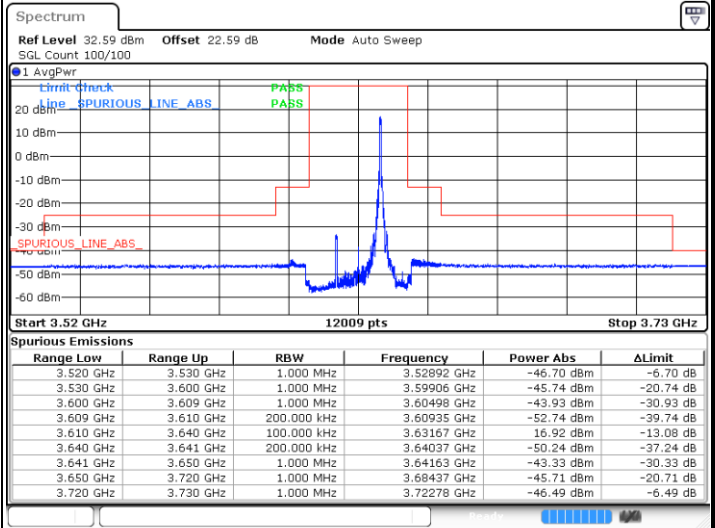
Middle Channel

1RB0

1RBmax

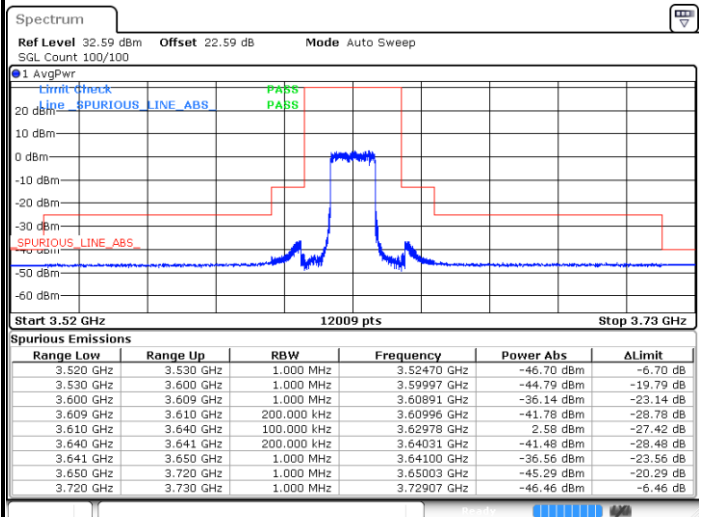


Date: 27.SEP.2023 18:59:38



Date: 27.SEP.2023 18:59:05

Full RB



Date: 27.SEP.2023 19:03:26

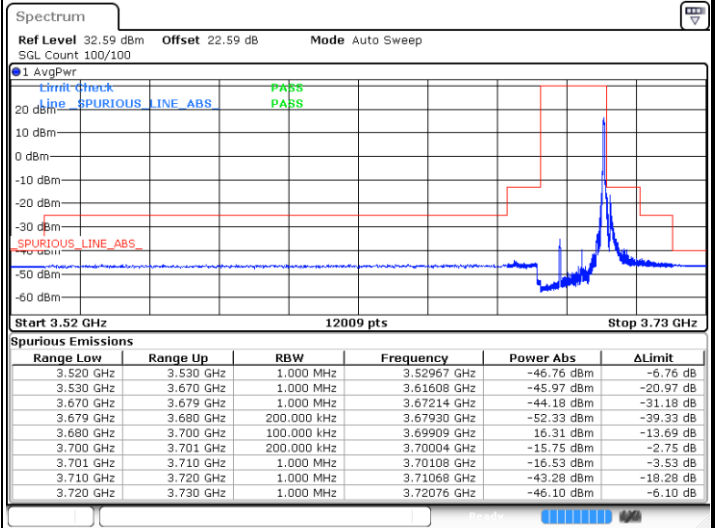
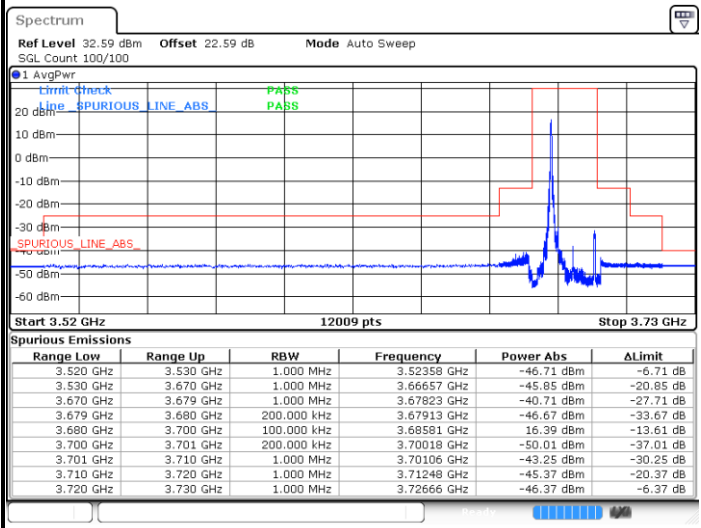


FR1 n48 / 15MHz / CP OFDM / QPSK

Highest Channel

1RB0

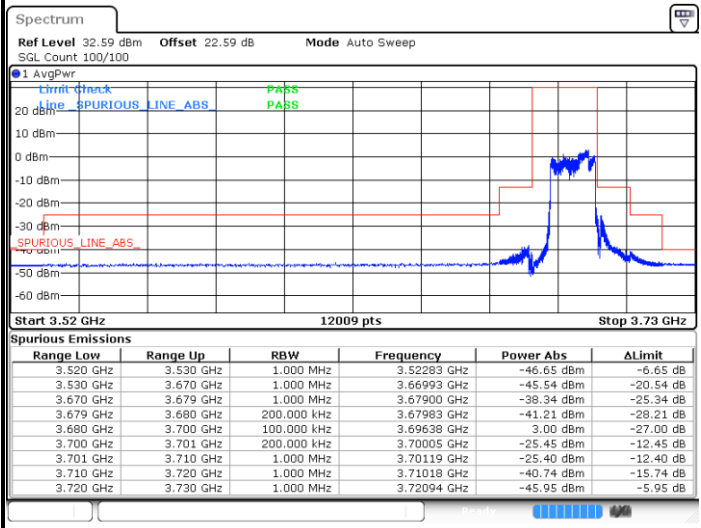
1RBmax



Date: 27.SEP.2023 19:07:43

Date: 27.SEP.2023 19:08:12

Full RB



Date: 27.SEP.2023 19:04:26

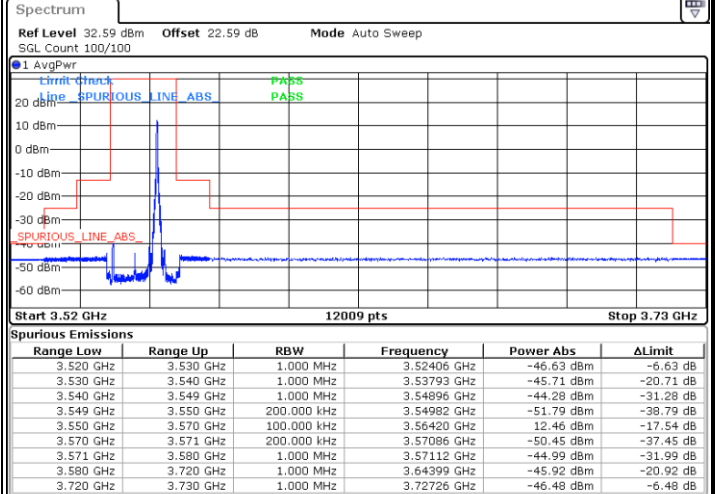
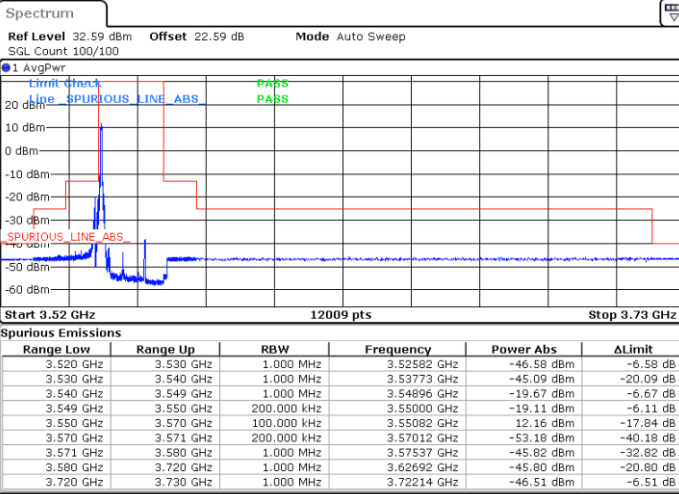


FR1 n48 / 15MHz / CP OFDM / 16QAM

Lowest Channel

1RB0

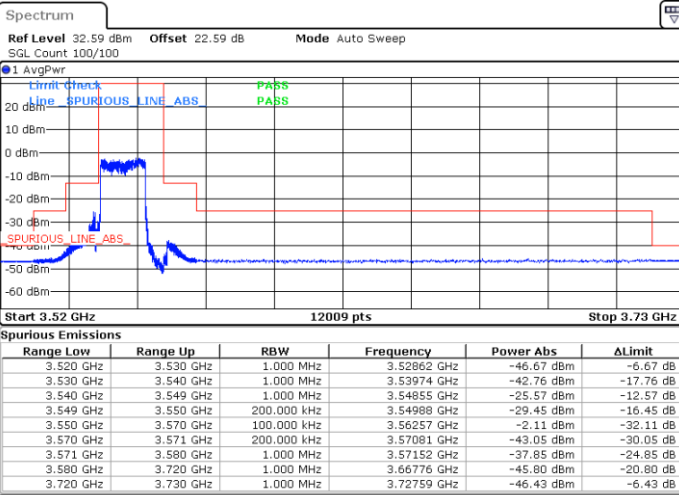
1RBmax



Date: 27.SEP.2023 18:54:44

Date: 27.SEP.2023 18:56:17

Full RB



Date: 27.SEP.2023 18:51:46

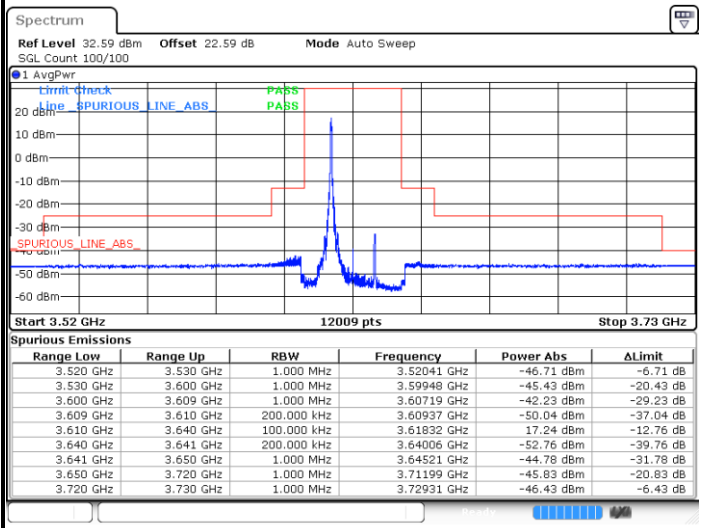


FR1 n48 / 15MHz / CP OFDM / 16QAM

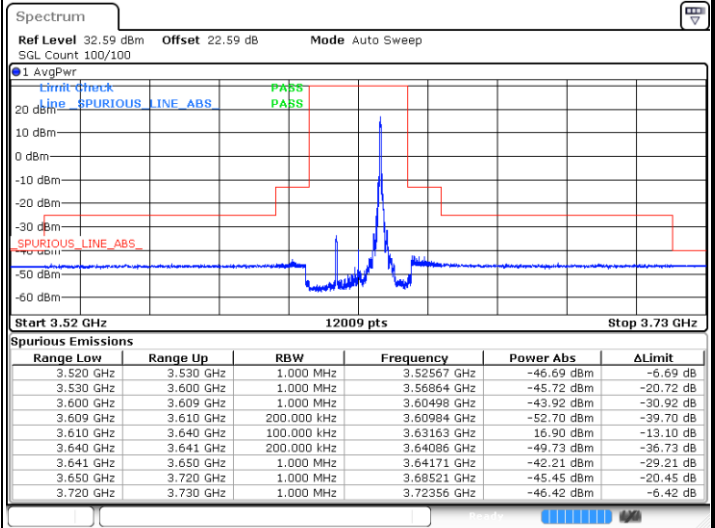
Middle Channel

1RB0

1RBmax

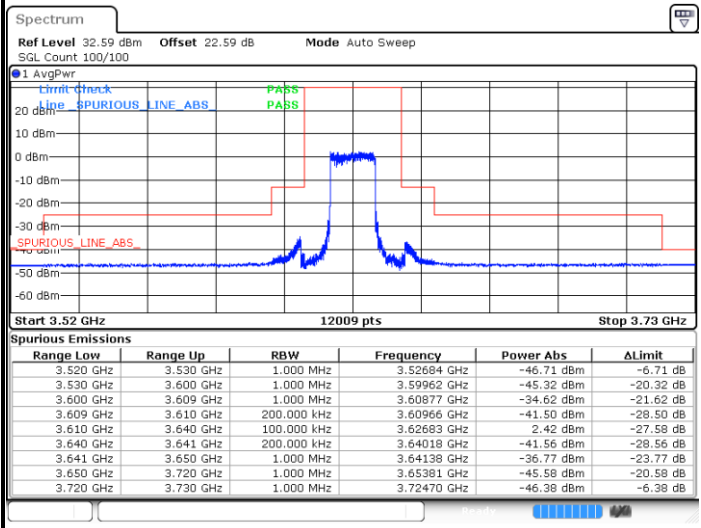


Date: 27.SEP.2023 19:00:02



Date: 27.SEP.2023 18:58:39

Full RB



Date: 27.SEP.2023 19:03:02