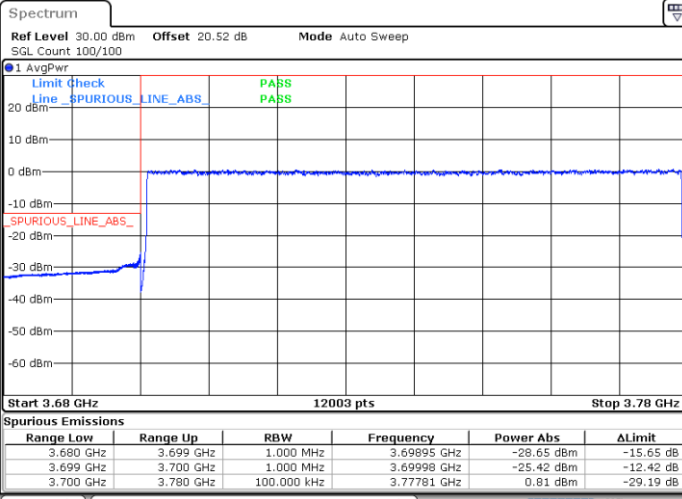




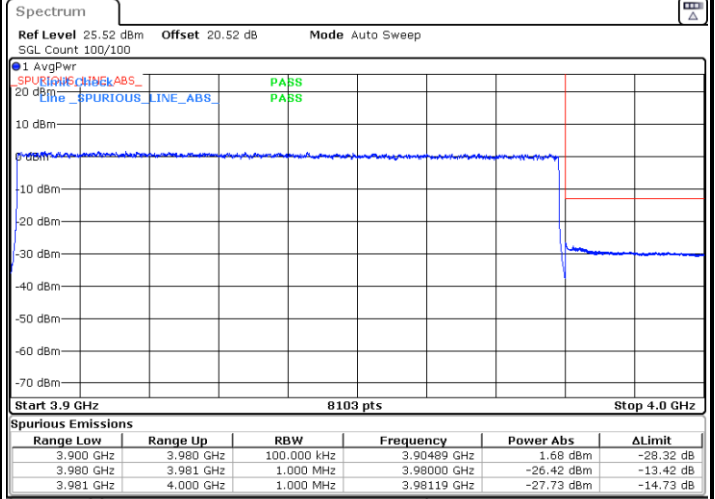
FR1 n77 / 80MHz Ant4/ CP 64Q

Lowest Band Edge / FULL RB



Date: 26.JAN.2024 00:34:28

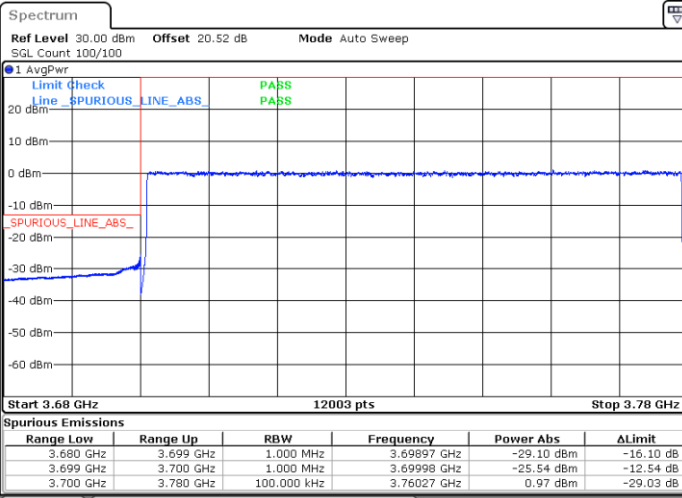
Highest Band Edge / Full RB



Date: 29.JAN.2024 08:20:39

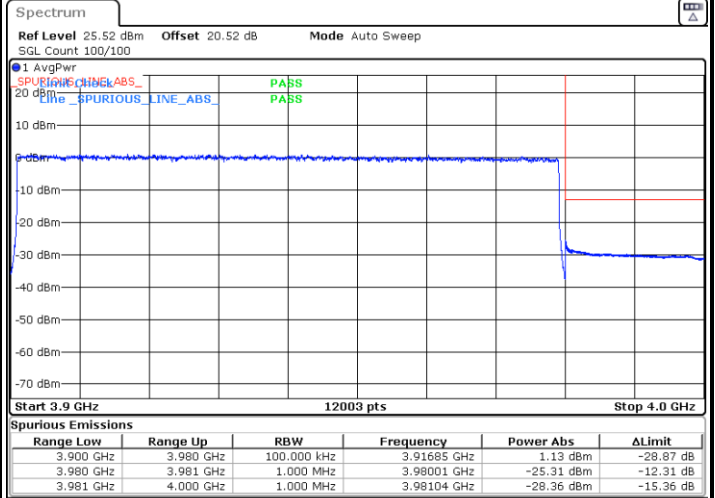
FR1 n77 / 80MHz Ant4 / CP 256Q

Lowest Band Edge / FULL RB



Date: 26.JAN.2024 00:39:40

Highest Band Edge / Full RB

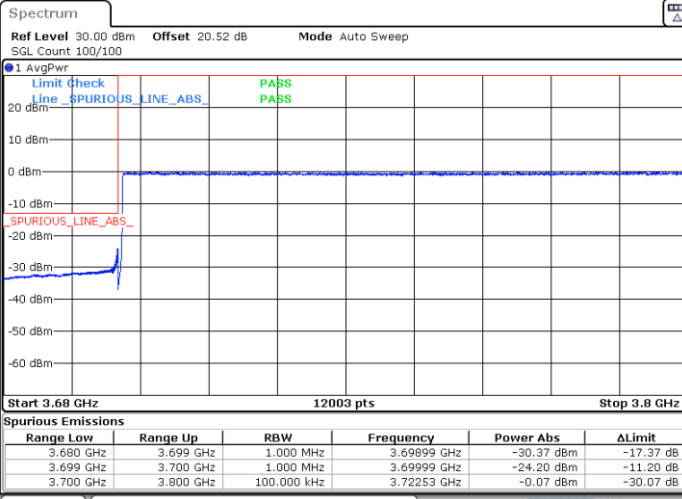


Date: 29.JAN.2024 08:44:24



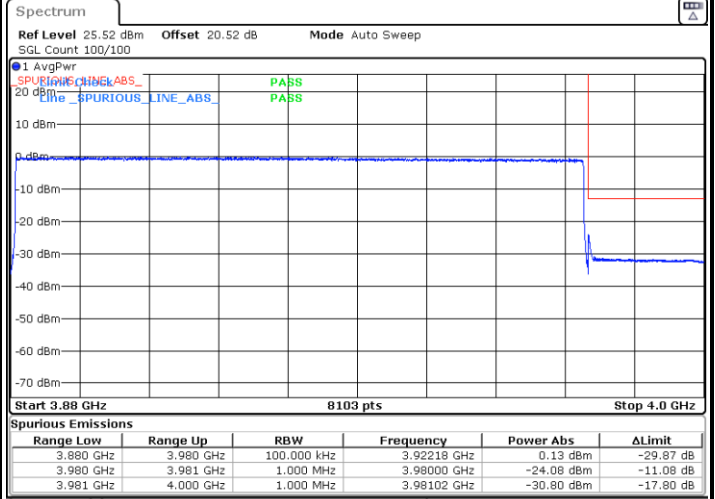
FR1 n77 / 100MHz Ant3/ CP QPSK

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 14:13:57

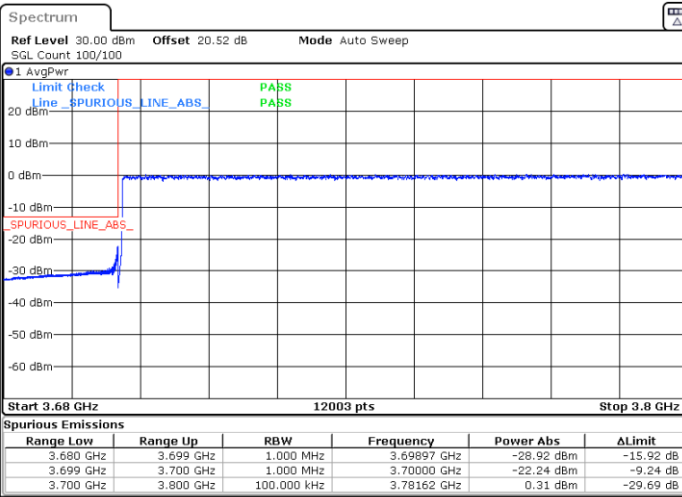
Highest Band Edge / Full RB



Date: 29.JAN.2024 14:27:59

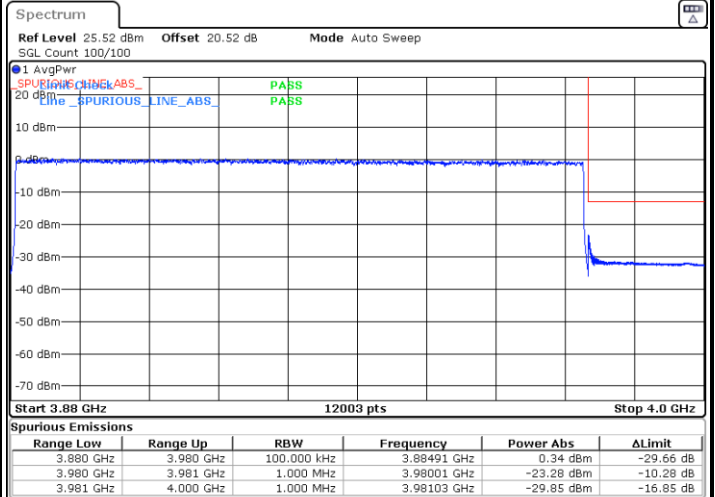
FR1 n77 / 100MHz Ant3 / CP 16Q

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 08:58:48

Highest Band Edge / Full RB

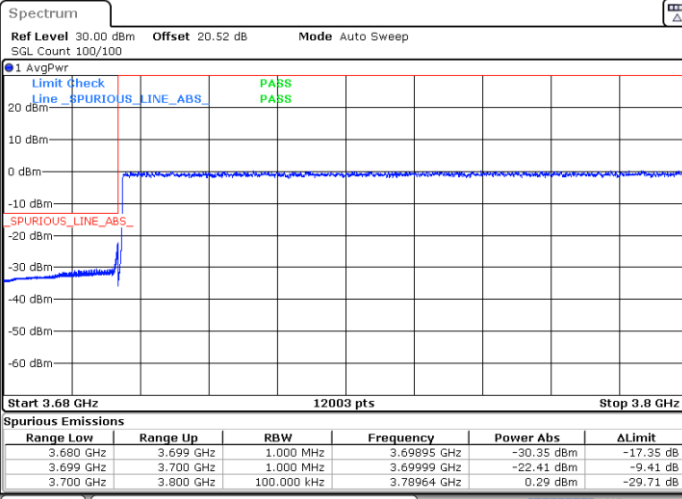


Date: 29.JAN.2024 10:29:43



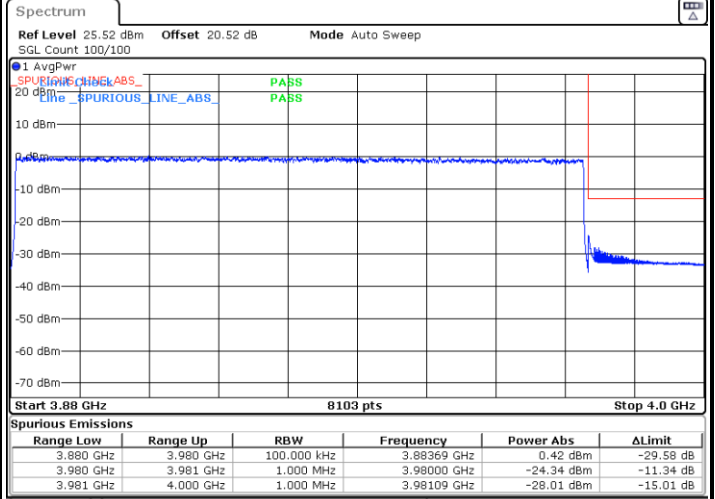
FR1 n77 / 100MHz Ant3/ CP 64Q

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 09:09:31

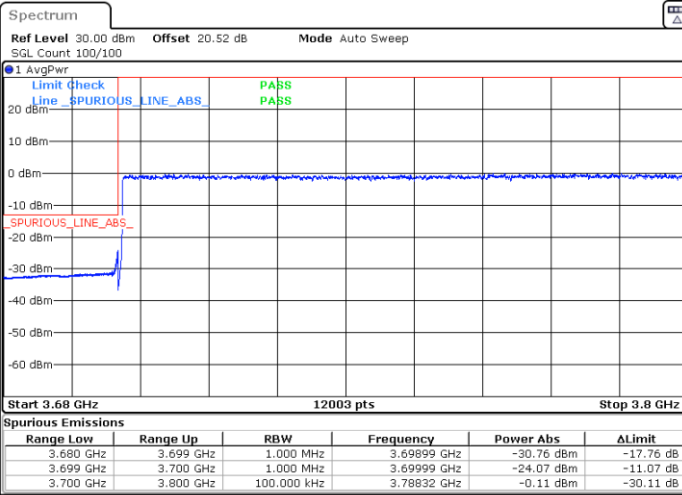
Highest Band Edge / Full RB



Date: 29.JAN.2024 10:44:46

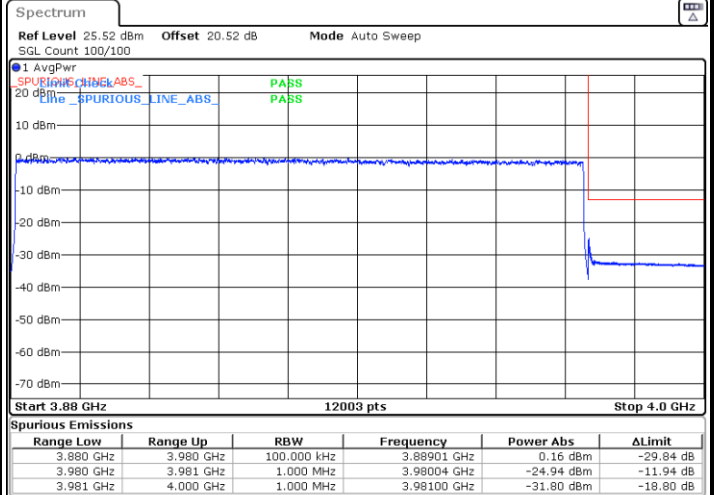
FR1 n77 / 100MHz Ant3 / CP 256Q

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 09:51:16

Highest Band Edge / Full RB

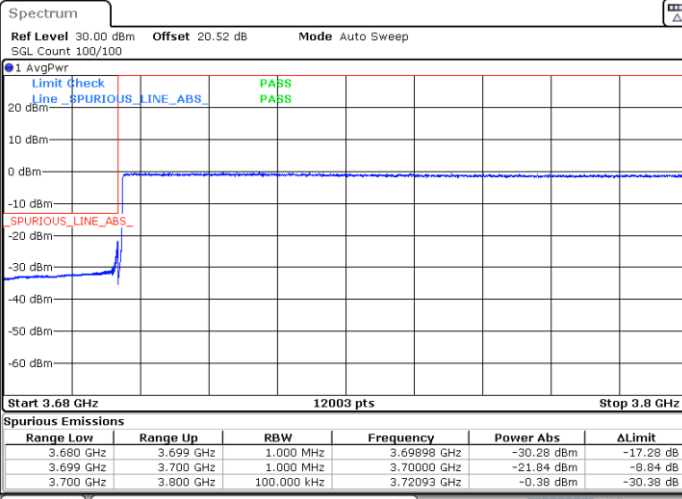


Date: 29.JAN.2024 12:04:17



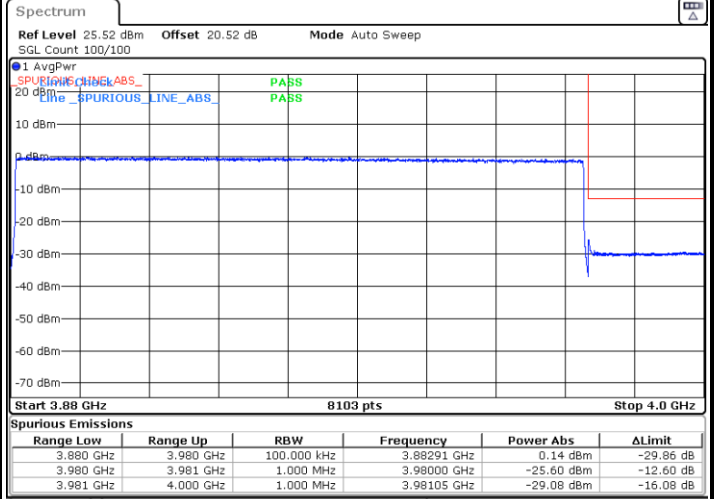
FR1 n77 / 100MHz Ant4/ CP QPSK

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 14:03:28

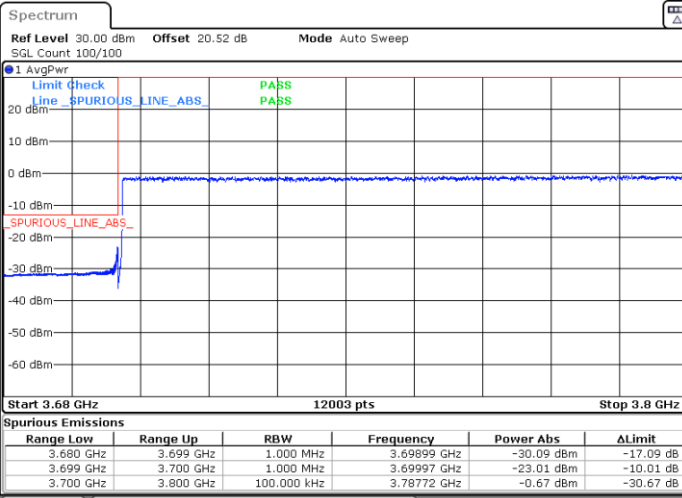
Highest Band Edge / Full RB



Date: 29.JAN.2024 14:23:56

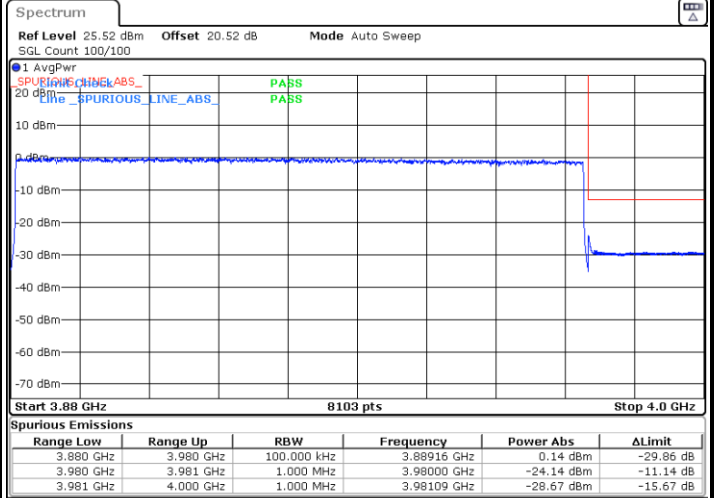
FR1 n77 / 100MHz Ant4 / CP 16Q

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 08:50:40

Highest Band Edge / Full RB

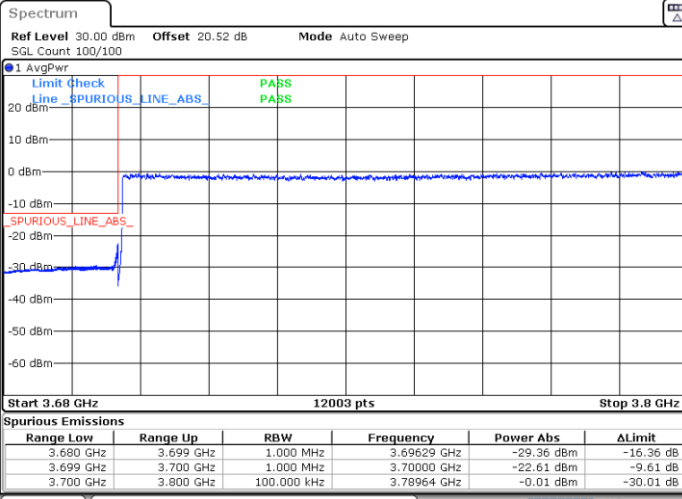


Date: 29.JAN.2024 10:26:16



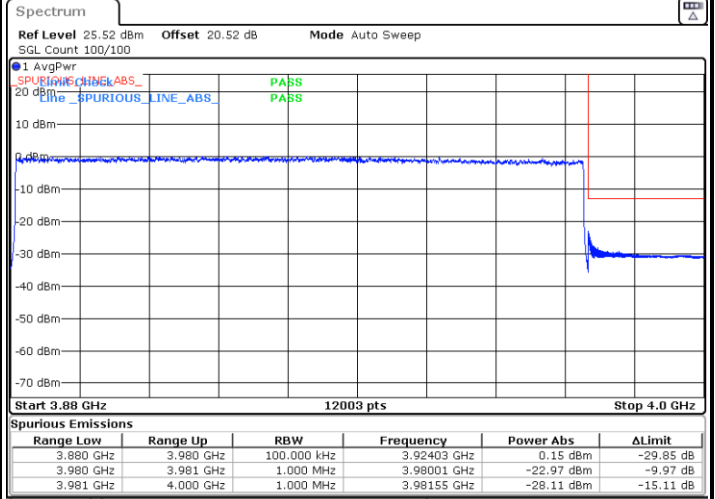
FR1 n77 / 100MHz Ant4/ CP 64Q

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 09:15:18

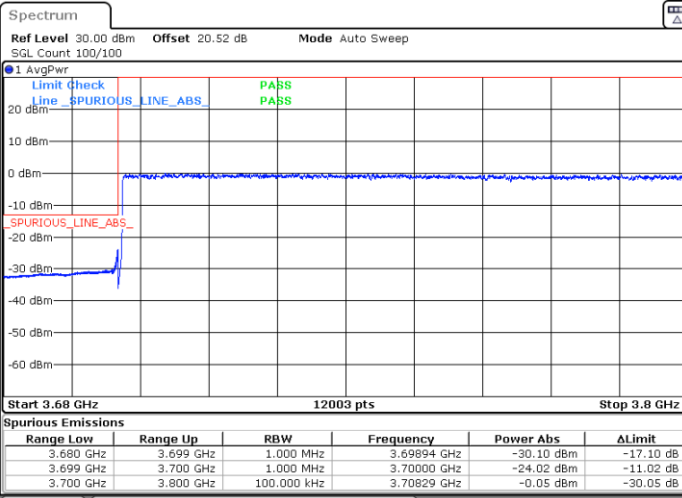
Highest Band Edge / Full RB



Date: 29.JAN.2024 10:51:00

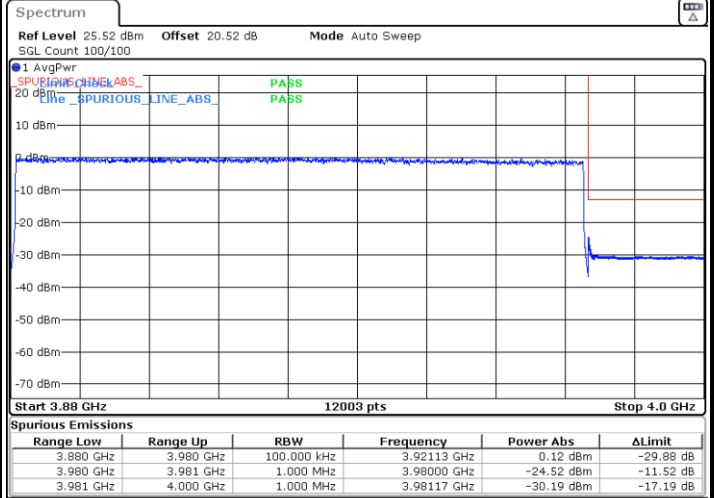
FR1 n77 / 100MHz Ant4/ CP 256Q

Lowest Band Edge / FULL RB



Date: 29.JAN.2024 09:44:42

Highest Band Edge / Full RB



Date: 29.JAN.2024 11:59:49



# Conducted Spurious Emission

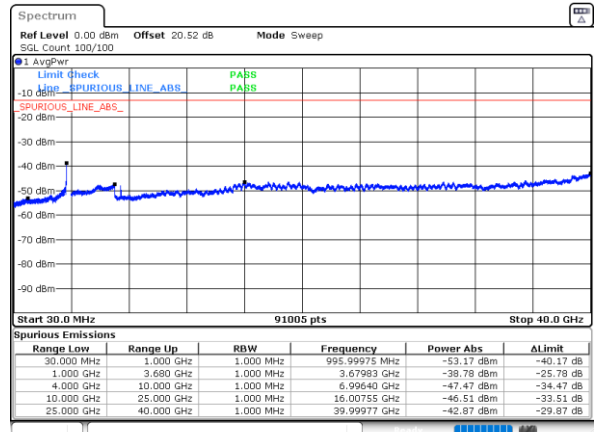
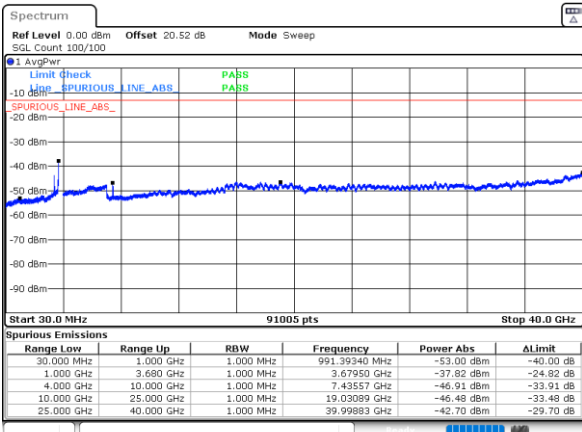
FR1 n77 / 40MHz / CP QPSK

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

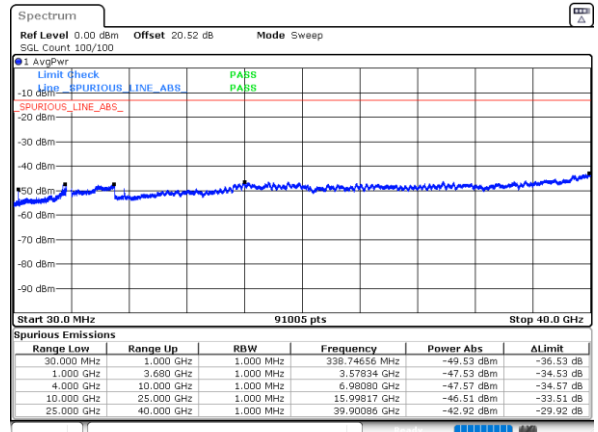
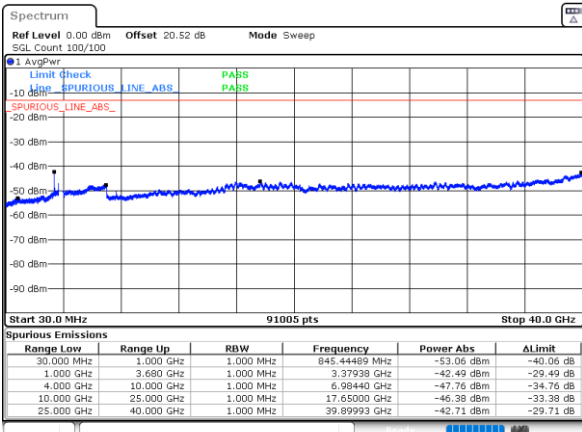


Date: 29\_JAN\_2024 12:33:45

Date: 29\_JAN\_2024 12:37:55

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

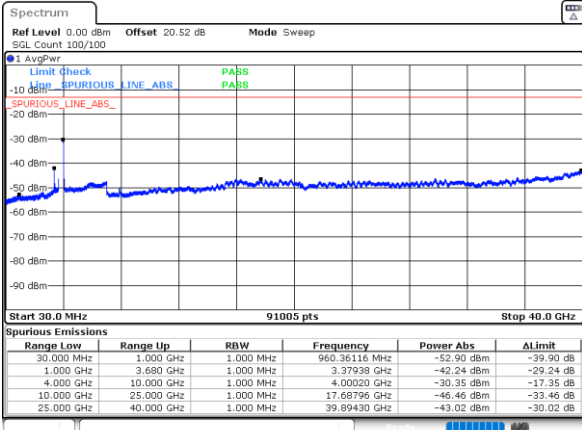


Date: 29\_JAN\_2024 12:52:28

Date: 29\_JAN\_2024 12:49:21

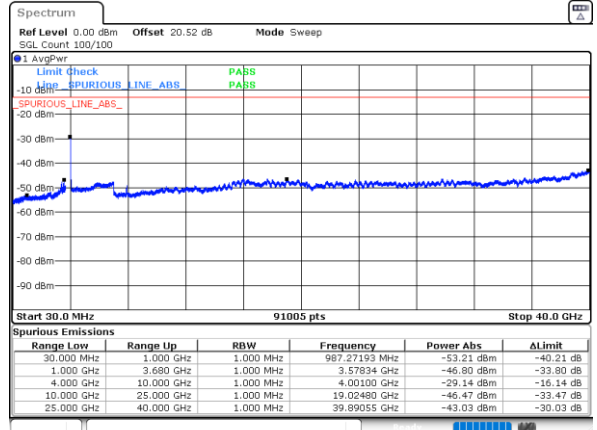


Highest Band Edge / Full RB



Date: 29\_JAN\_2024 12:56:47

Highest Band Edge / Full RB



Date: 29\_JAN\_2024 12:01:02



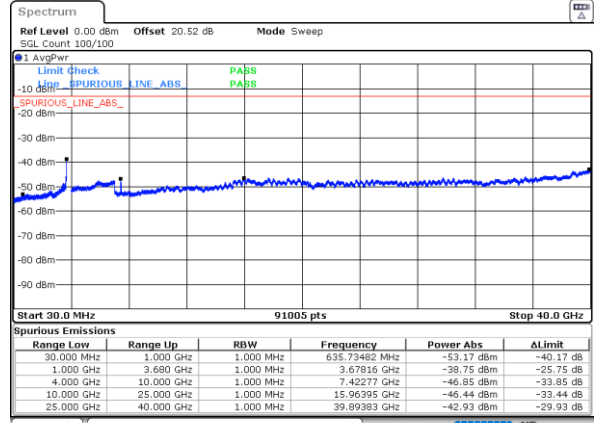
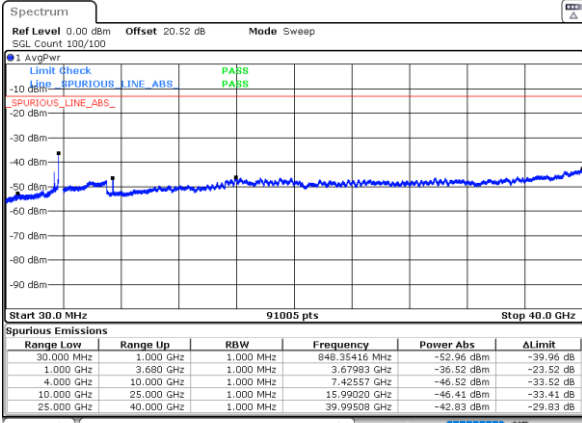
FR1 n77 / 40MHz / CP 16QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

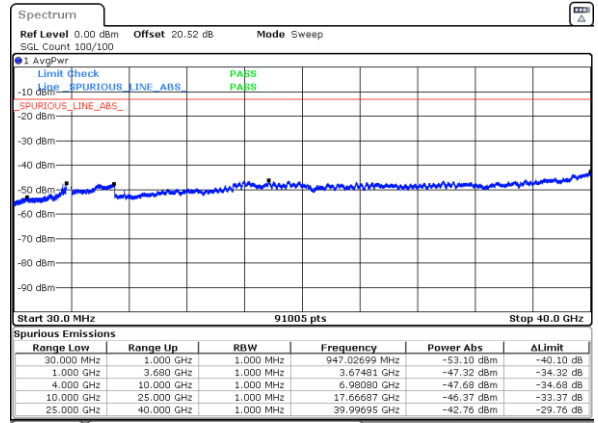
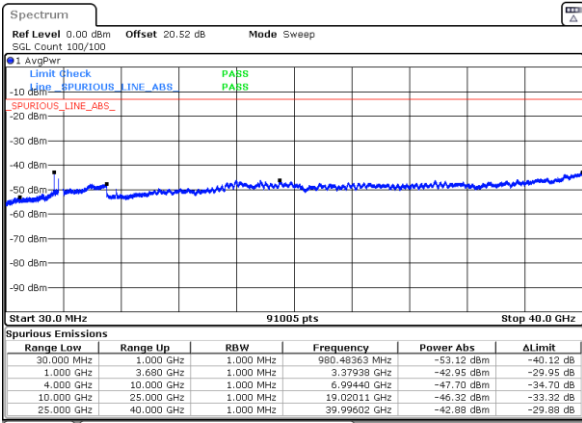


Date: 25\_JAN\_2024 10:35:04

Date: 25\_JAN\_2024 10:27:43

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

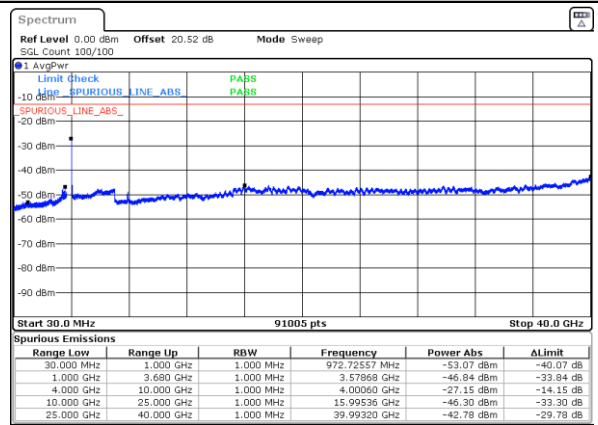
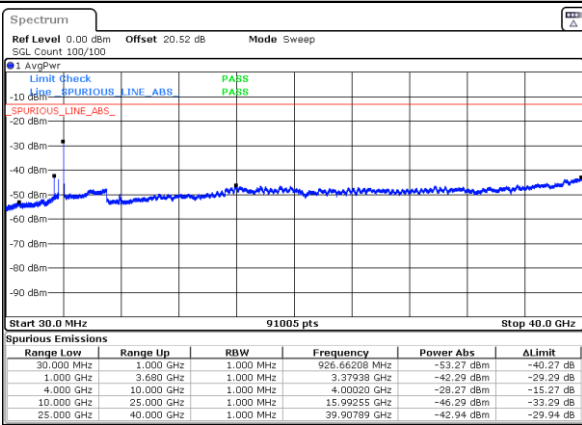


Date: 25\_JAN\_2024 12:20:58

Date: 25\_JAN\_2024 12:28:25

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25\_JAN\_2024 13:04:24

Date: 25\_JAN\_2024 12:58:11





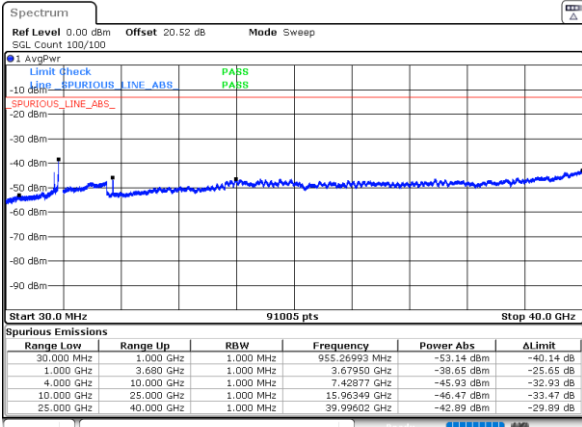
FR1 n77 / 40MHz / CP 64QAM

ANT3

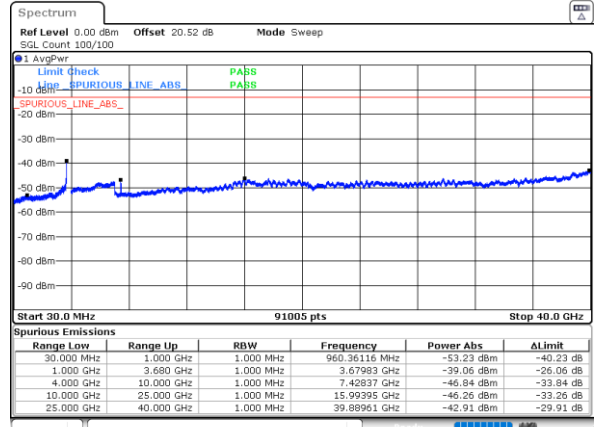
ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB



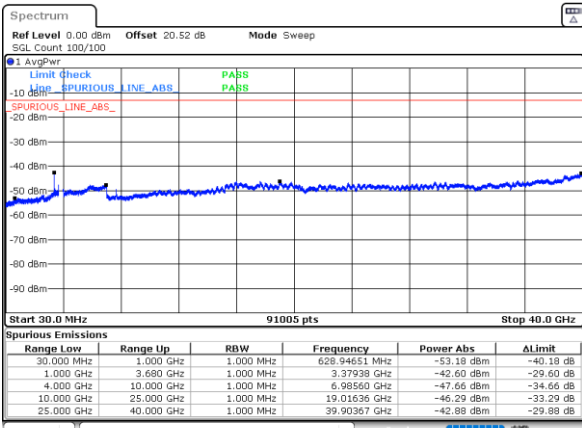
Date: 25\_JAN,2024 10:43:02



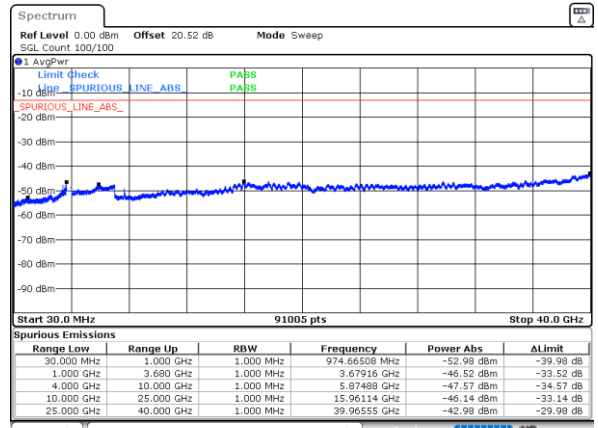
Date: 25\_JAN,2024 10:48:40

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB



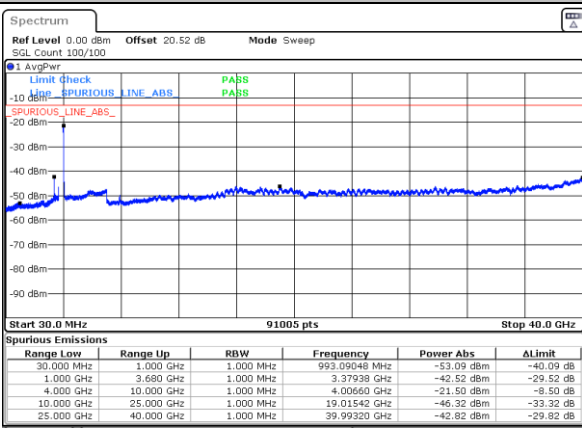
Date: 25\_JAN,2024 12:36:10



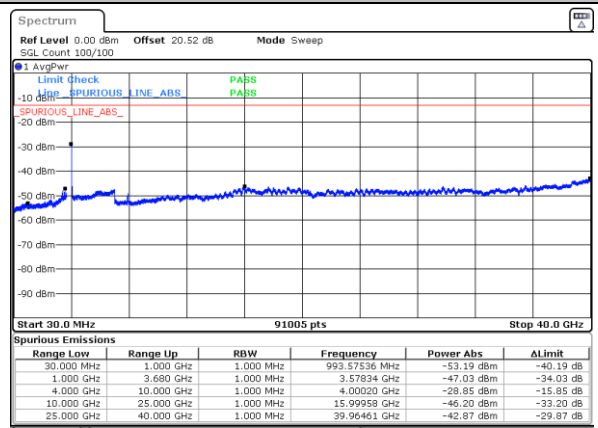
Date: 25\_JAN,2024 12:33:45

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25\_JAN,2024 13:12:51



Date: 25\_JAN,2024 13:19:43



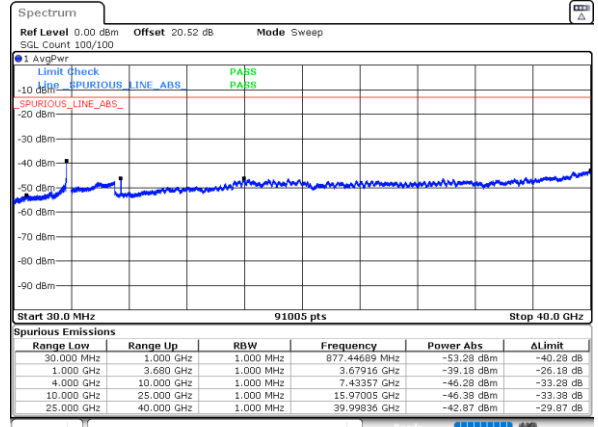
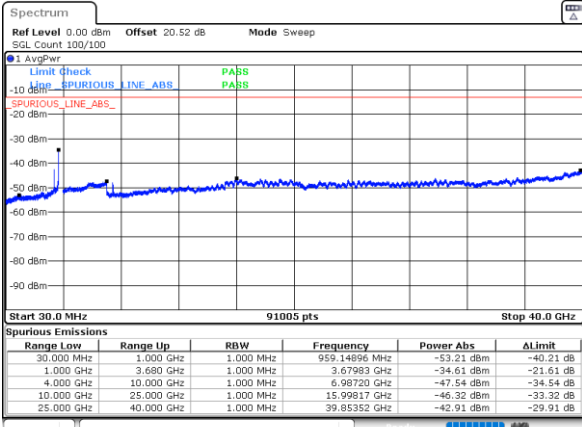
FR1 n77 / 40MHz / CP 256QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

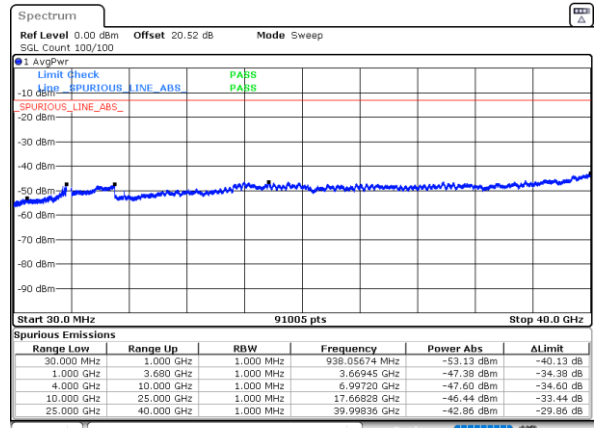
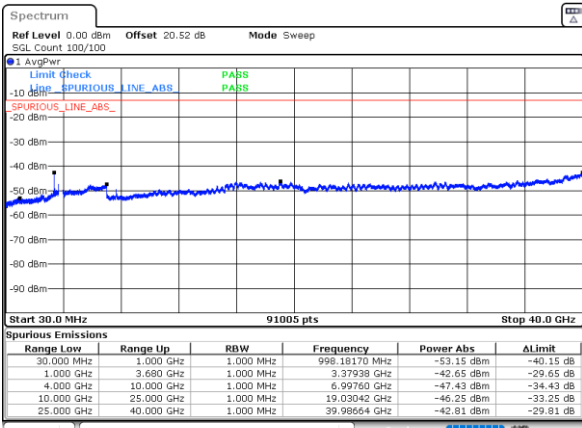


Date: 25\_JAN.2024 12:14:22

Date: 25\_JAN.2024 12:04:52

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

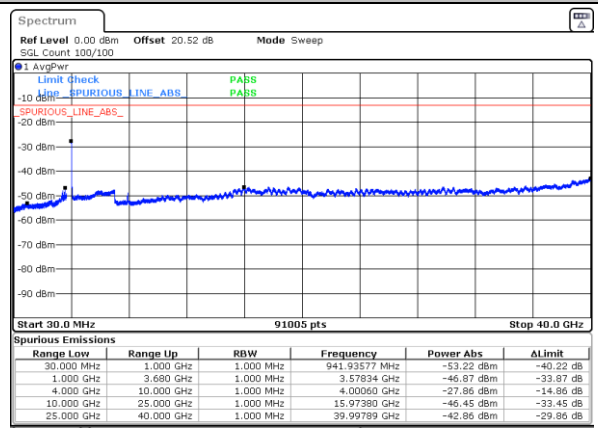
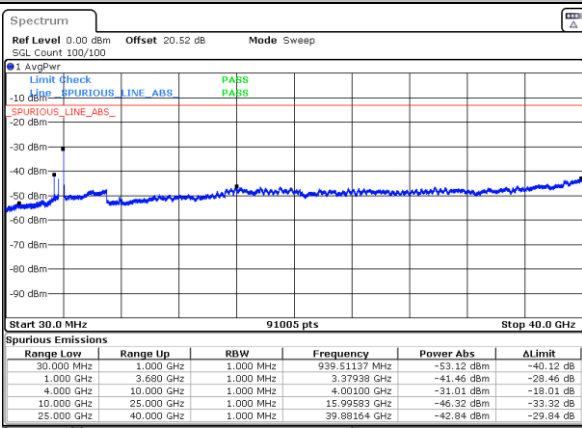


Date: 25\_JAN.2024 12:41:47

Date: 25\_JAN.2024 12:40:55

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25\_JAN.2024 13:30:40

Date: 25\_JAN.2024 13:27:25



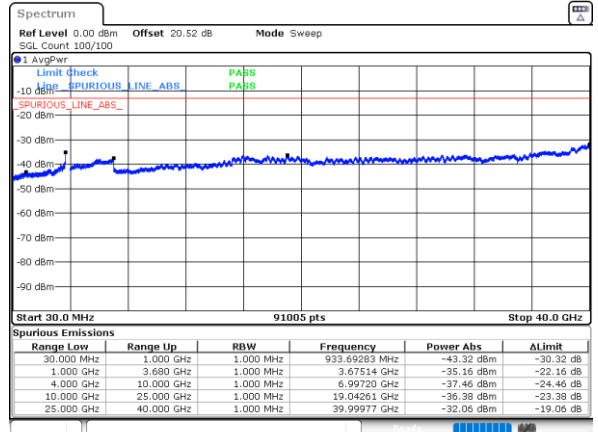
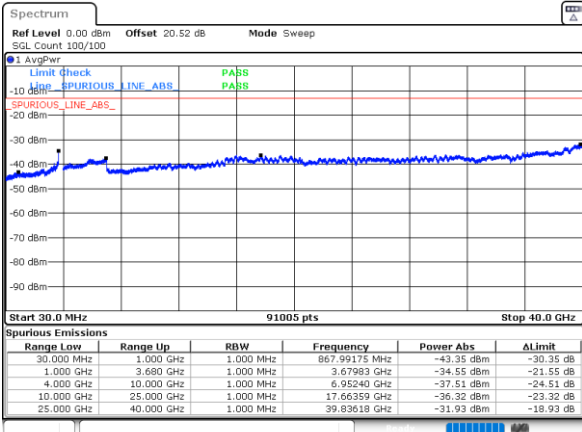
FR1 n77 / 60MHz / CP QPSK

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

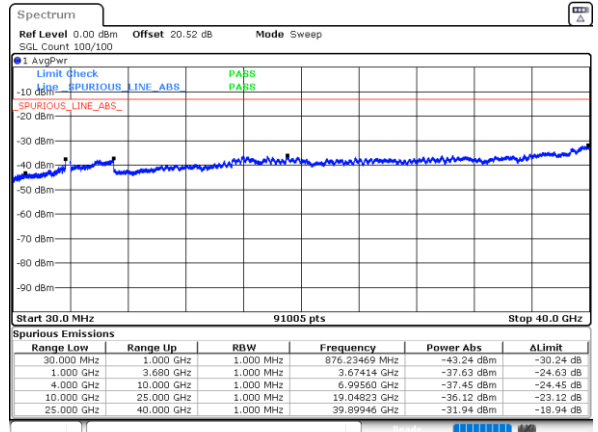
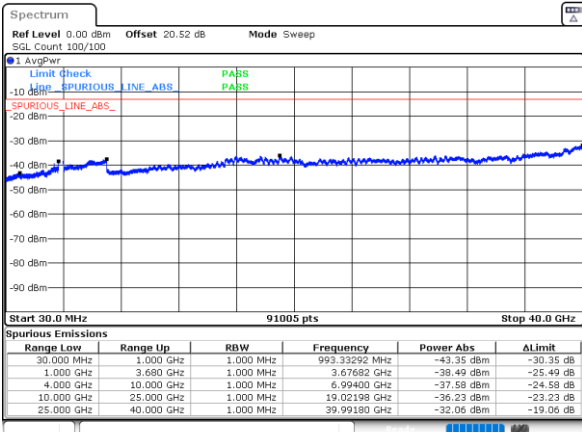


Date: 29\_JAN\_2024 13:09:56

Date: 29\_JAN\_2024 13:05:49

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

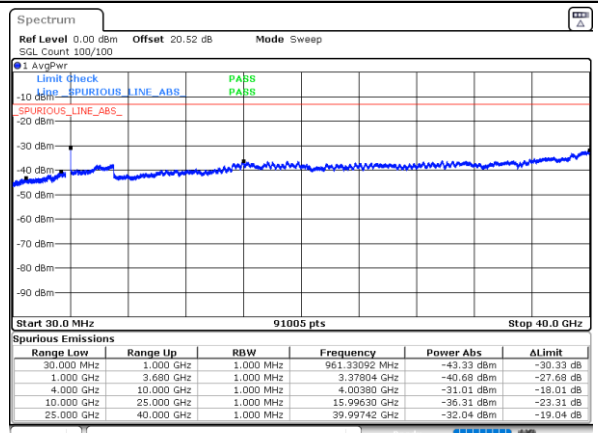
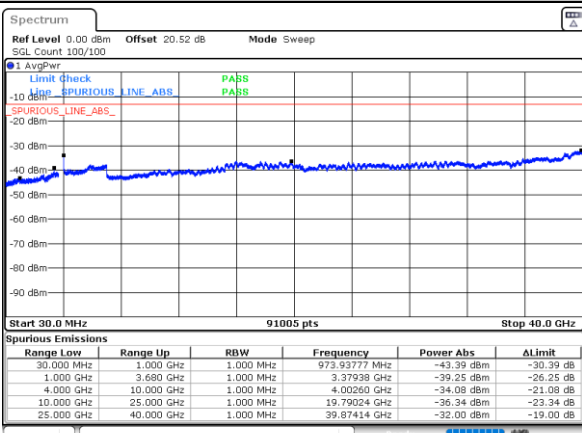


Date: 29\_JAN\_2024 13:13:09

Date: 29\_JAN\_2024 13:15:54

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29\_JAN\_2024 13:30:56

Date: 29\_JAN\_2024 13:22:54



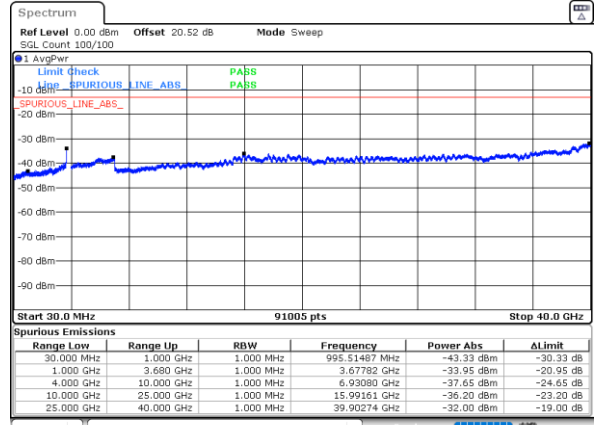
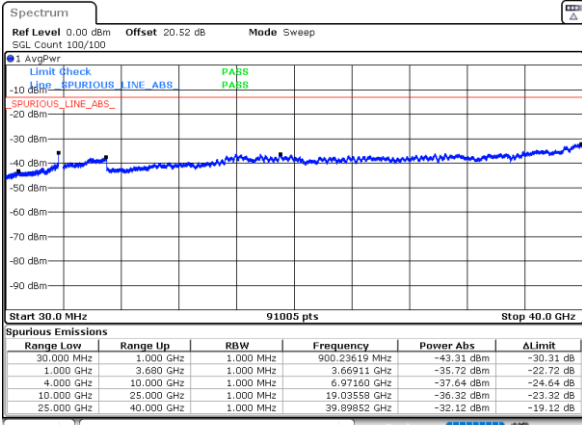
FR1 n77 / 60MHz / CP 16QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

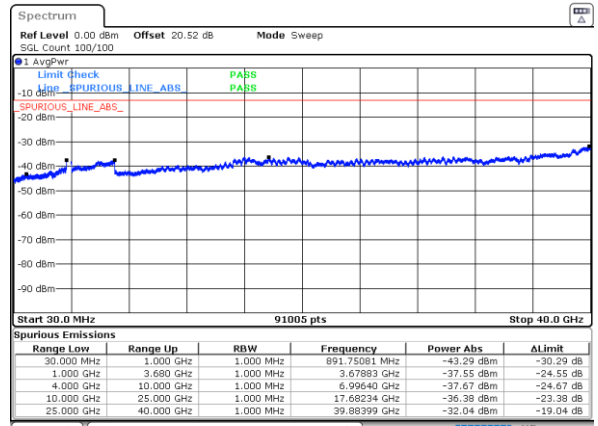
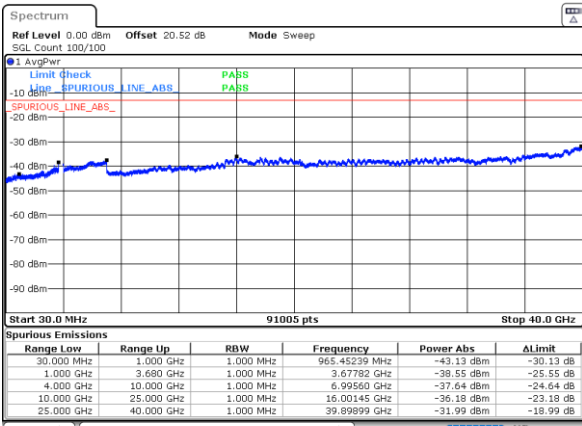


Date: 25\_JAN\_2024 14:00:11

Date: 25\_JAN\_2024 14:09:34

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

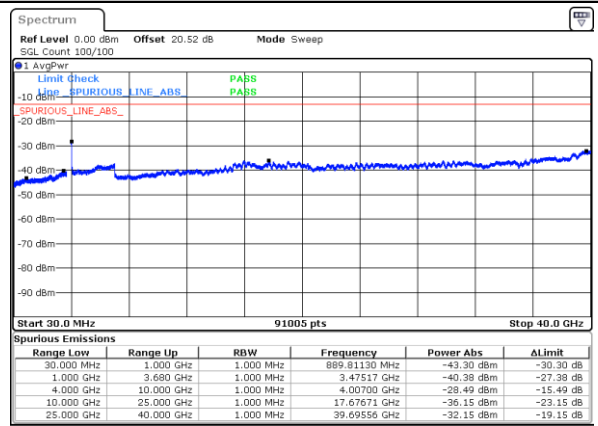
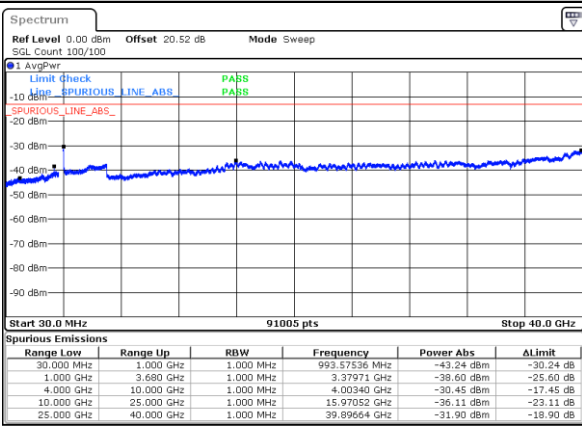


Date: 25\_JAN\_2024 14:54:55

Date: 25\_JAN\_2024 14:50:49

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25\_JAN\_2024 23:43:07

Date: 25\_JAN\_2024 23:47:18



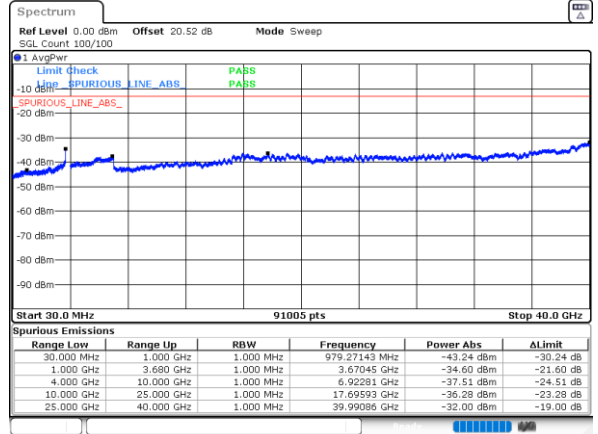
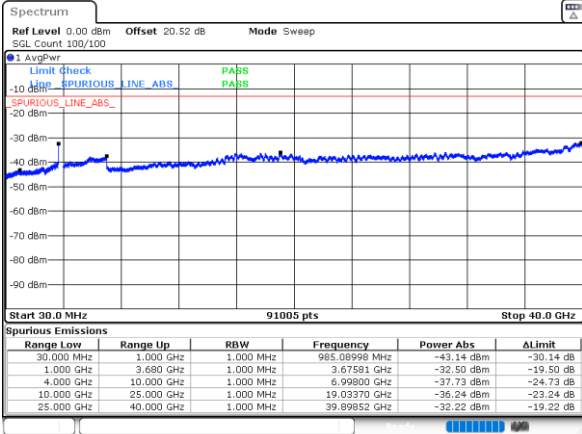
FR1 n77 / 60MHz / CP 64QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

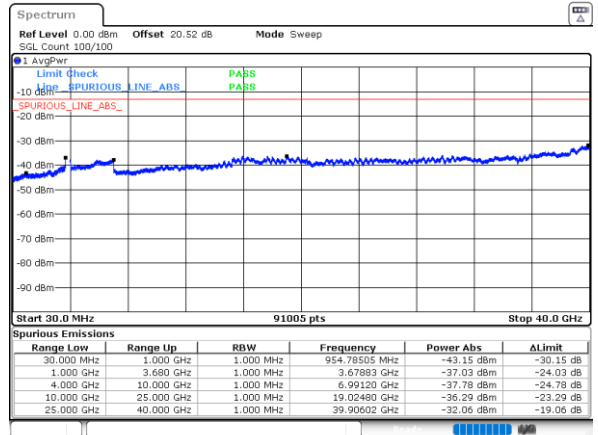
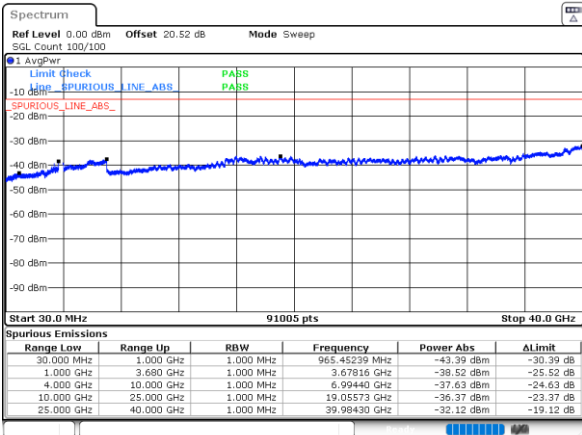


Date: 25\_JAN,2024 14:31:39

Date: 25\_JAN,2024 14:26:41

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

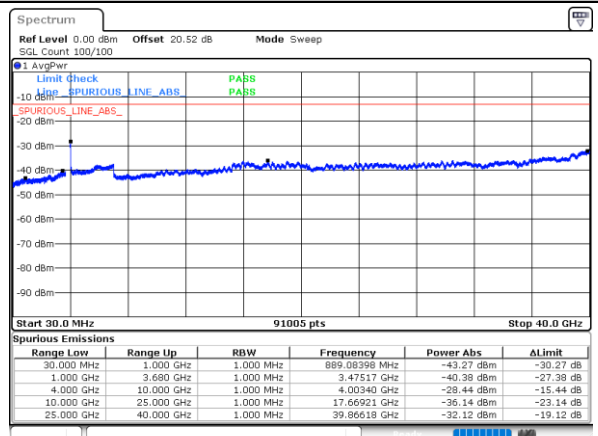
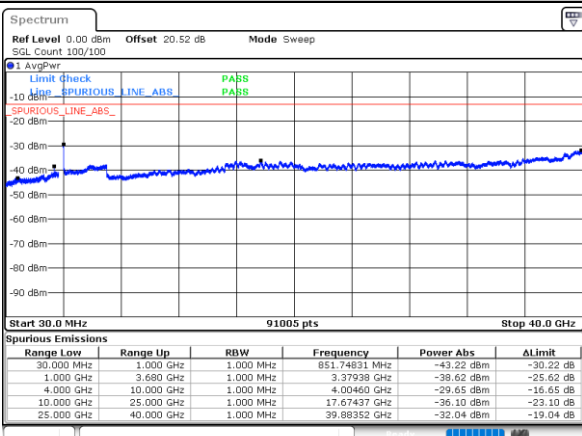


Date: 25\_JAN,2024 15:00:29

Date: 25\_JAN,2024 15:02:58

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26\_JAN,2024 00:04:18

Date: 25\_JAN,2024 23:58:29



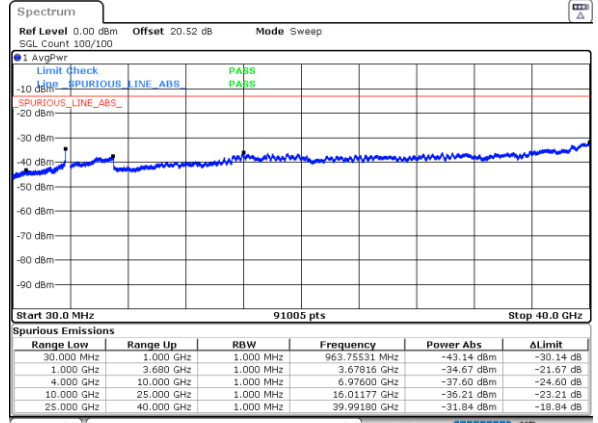
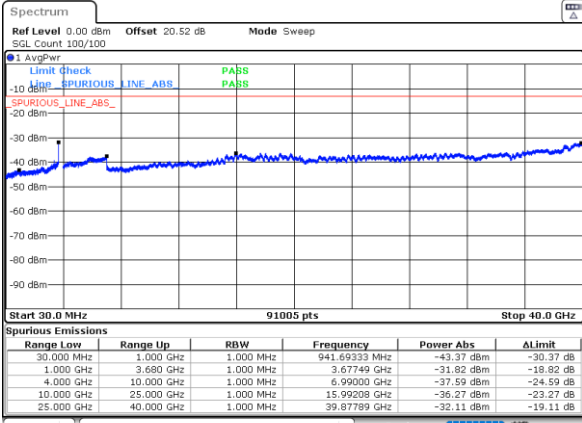
FR1 n77 / 60MHz / CP 256QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

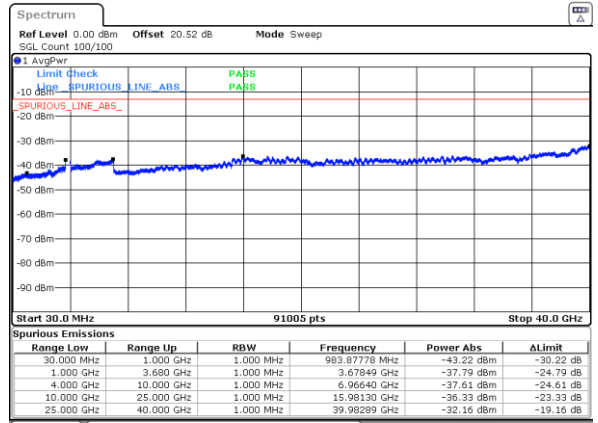
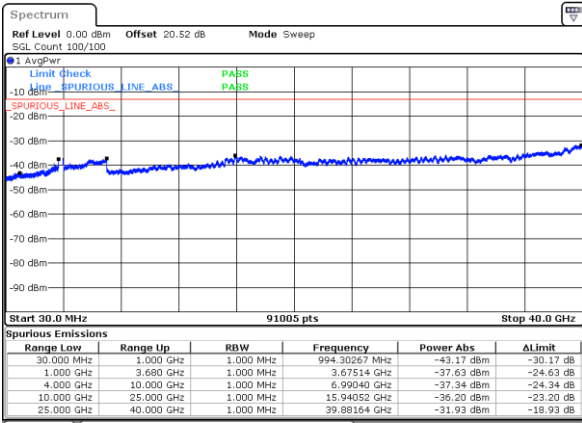


Date: 25\_JAN,2024 14:39:59

Date: 25\_JAN,2024 14:46:04

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

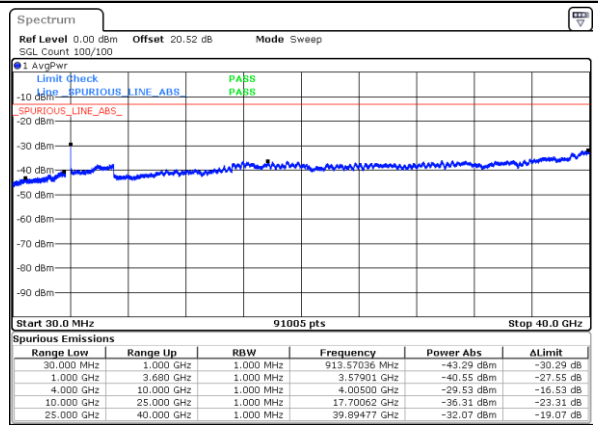
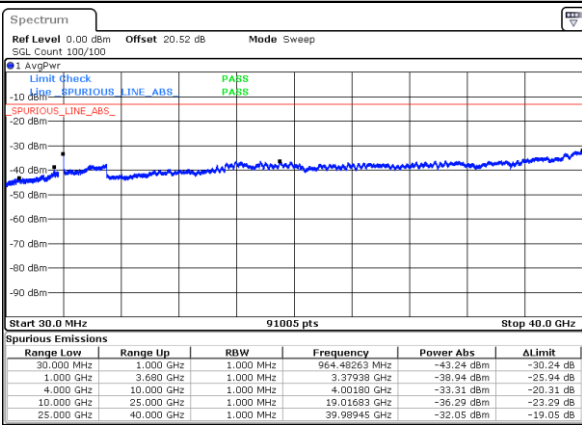


Date: 25\_JAN,2024 23:37:28

Date: 25\_JAN,2024 15:06:59

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26\_JAN,2024 00:09:34

Date: 26\_JAN,2024 00:12:40



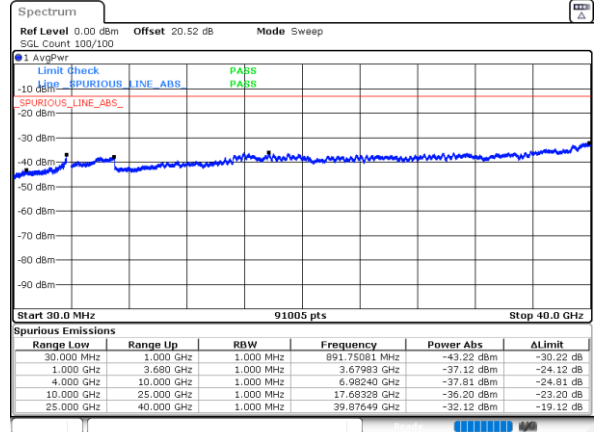
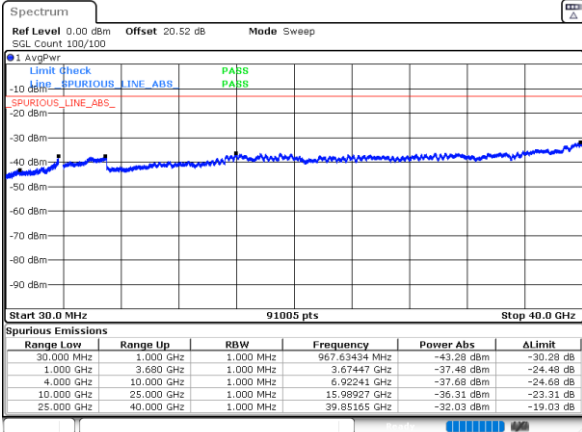
FR1 n77 / 80MHz / CP QPSK

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

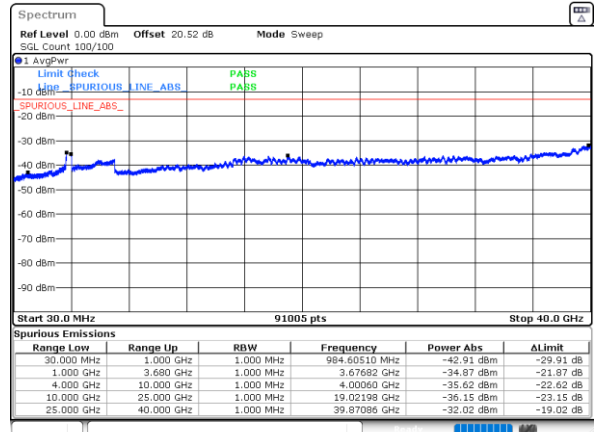
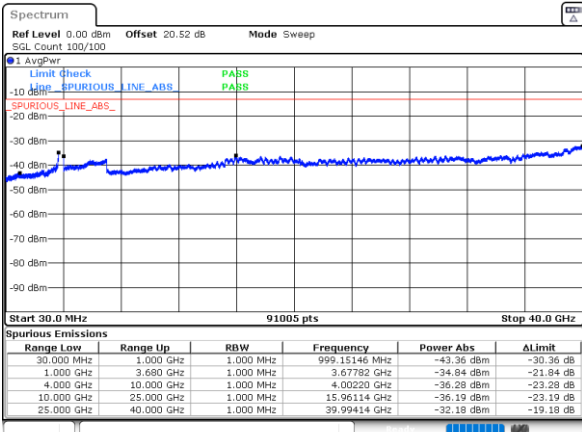


Date: 29\_JAN,2024 13:35:36

Date: 29\_JAN,2024 13:40:10

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

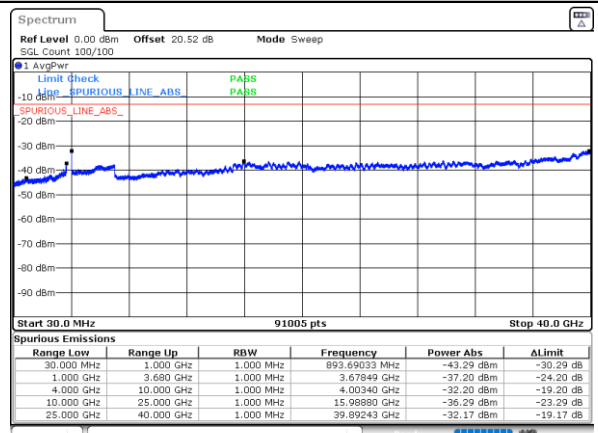
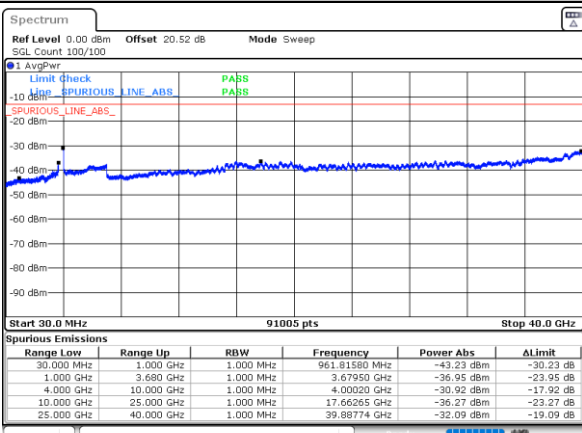


Date: 29\_JAN,2024 13:46:15

Date: 29\_JAN,2024 13:43:35

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29\_JAN,2024 13:52:43

Date: 29\_JAN,2024 13:57:06



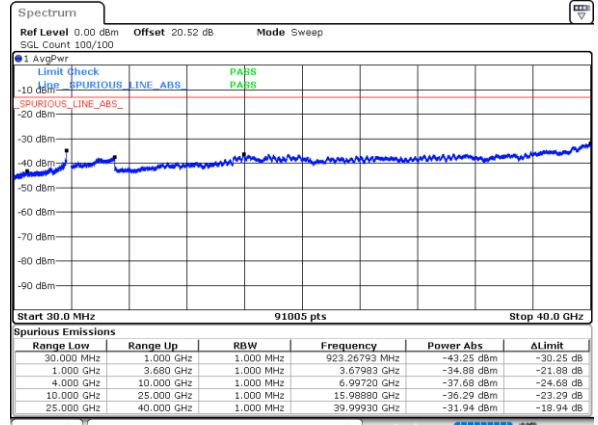
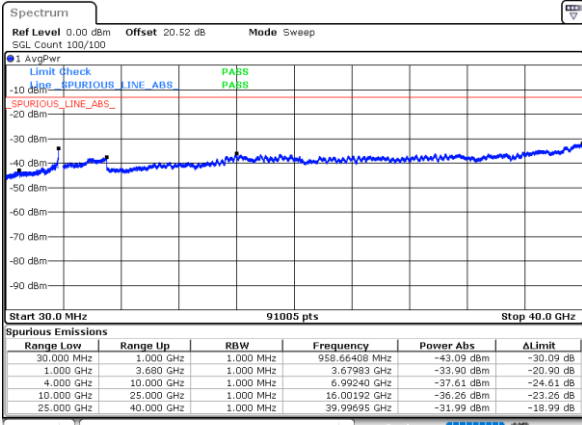
FR1 n77 / 80MHz / CP 16QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

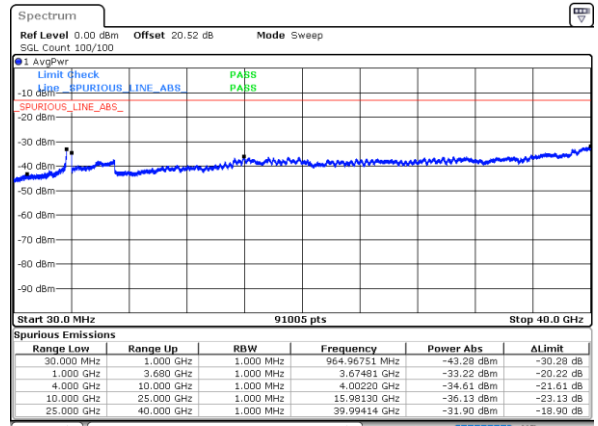
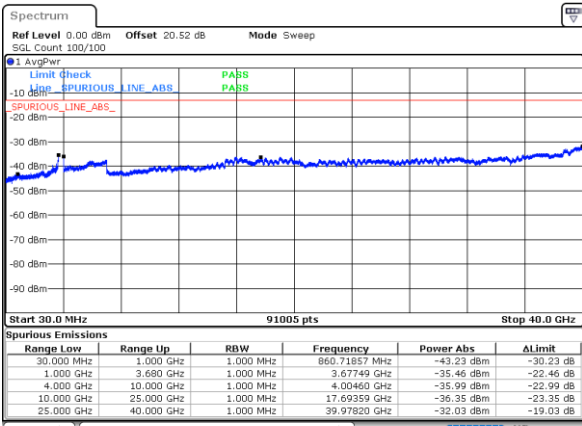


Date: 26, JAN, 2024 00:27:15

Date: 26, JAN, 2024 00:23:30

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

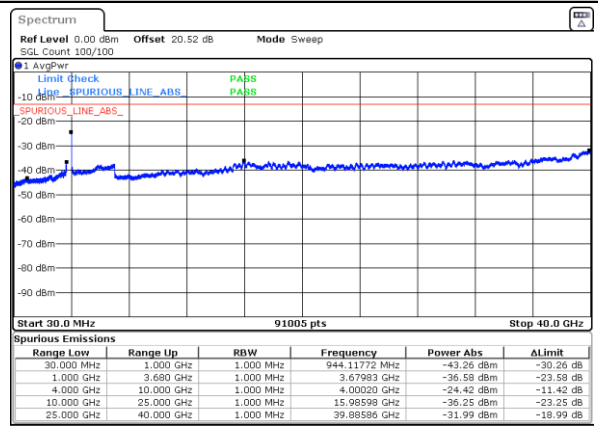
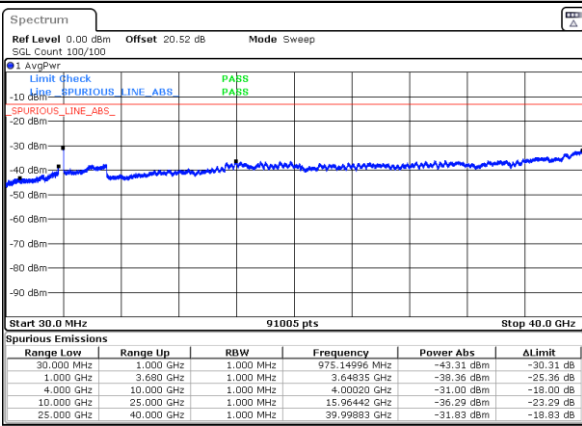


Date: 26, JAN, 2024 00:48:48

Date: 26, JAN, 2024 00:50:10

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29, JAN, 2024 08:06:26

Date: 29, JAN, 2024 08:12:17





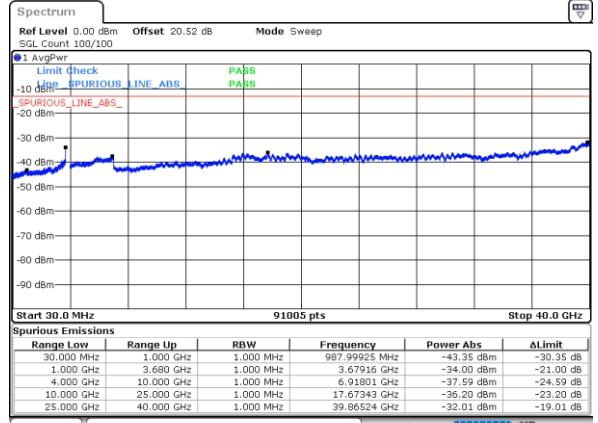
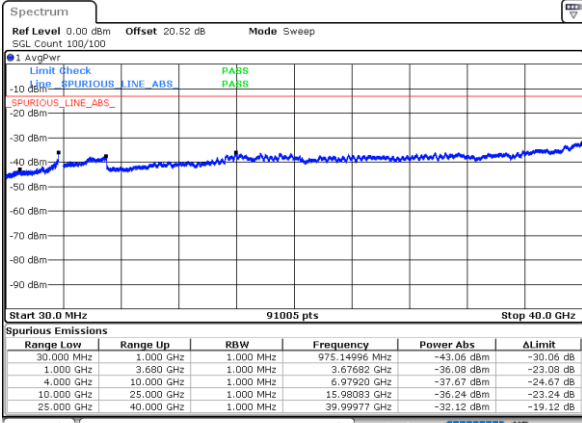
FR1 n77 / 80MHz / CP 64QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

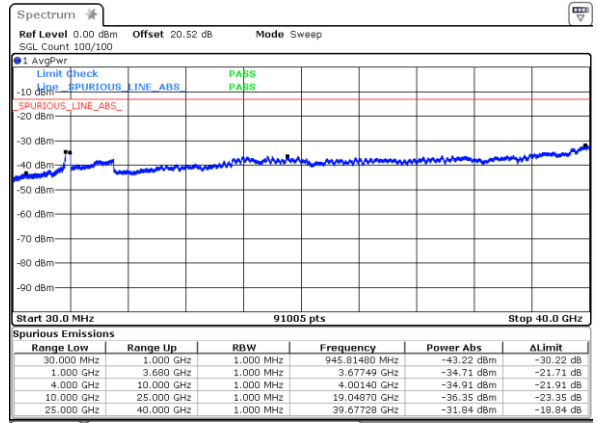
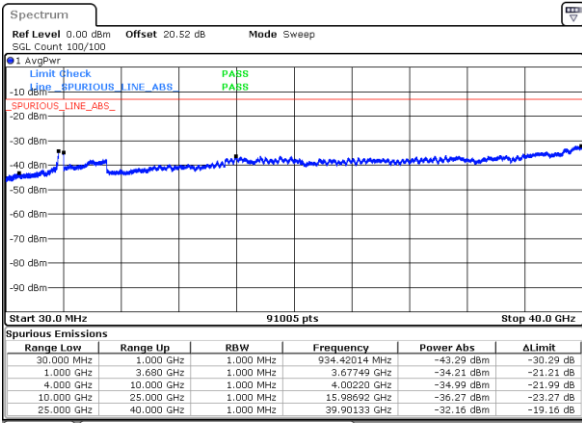


Date: 26, JAN, 2024 00:32:17

Date: 26, JAN, 2024 00:35:37

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

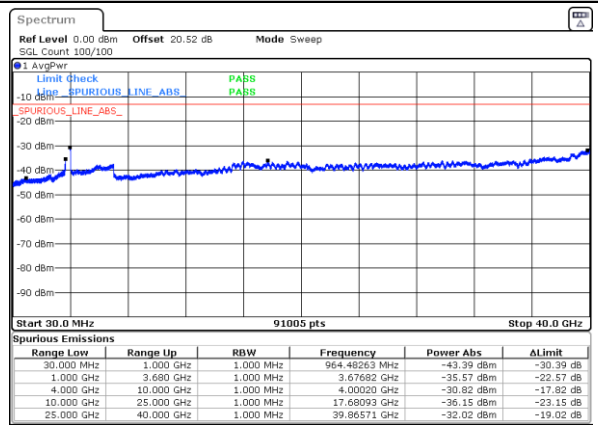
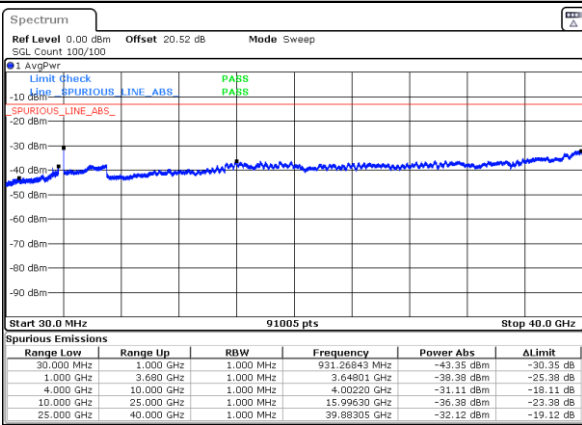


Date: 26, JAN, 2024 00:55:22

Date: 26, JAN, 2024 09:35:57

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29, JAN, 2024 08:32:57

Date: 29, JAN, 2024 08:28:29



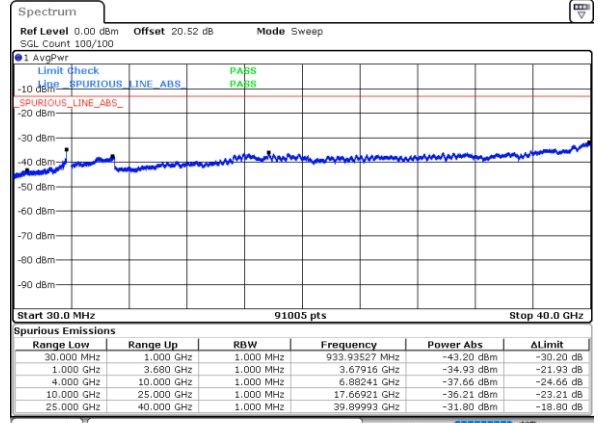
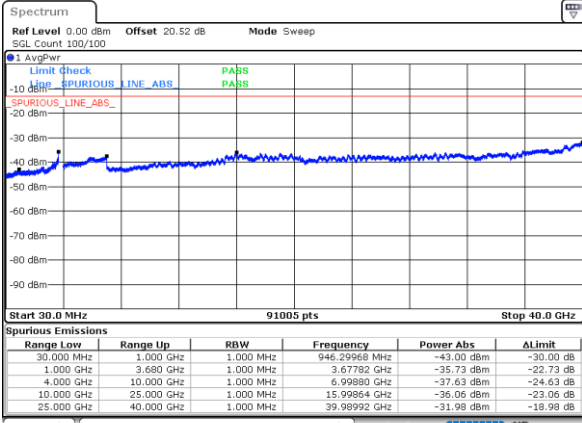
FR1 n77 / 80MHz / CP 256QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

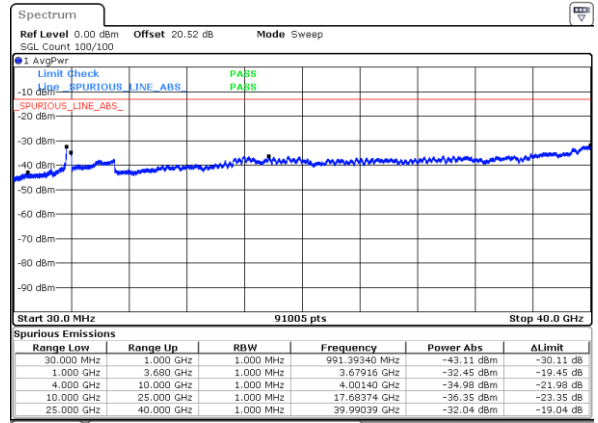
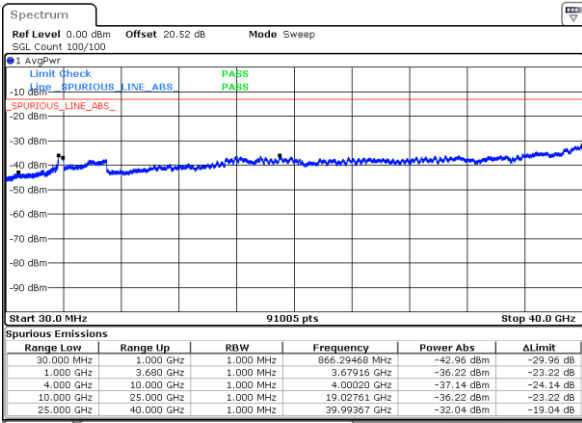


Date: 26, JAN, 2024 00:44:50

Date: 26, JAN, 2024 00:41:27

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

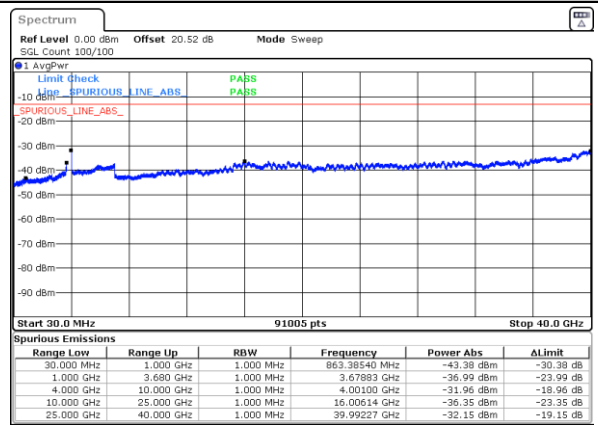
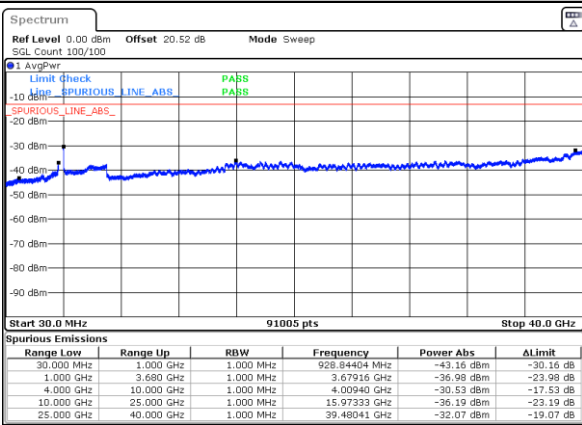


Date: 26, JAN, 2024 09:56:23

Date: 26, JAN, 2024 09:49:37

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29, JAN, 2024 08:41:41

Date: 29, JAN, 2024 08:45:51



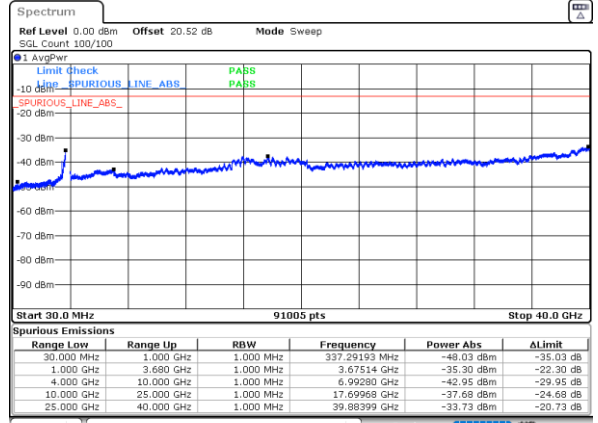
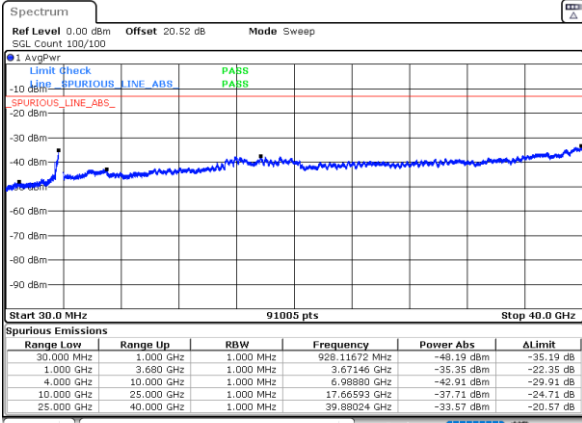
FR1 n77 / 100MHz / CP QPSK

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

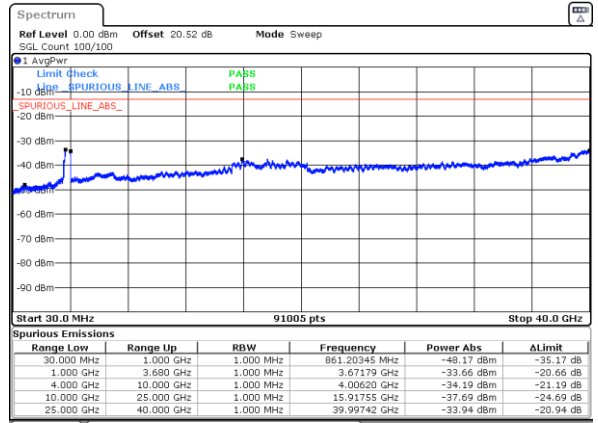
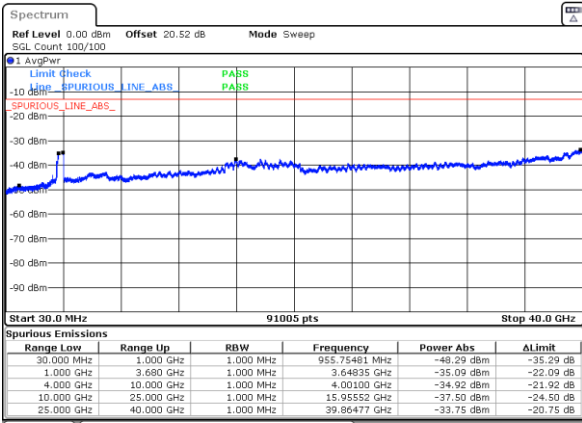


Date: 29\_JAN\_2024 14:07:54

Date: 29\_JAN\_2024 14:02:15

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

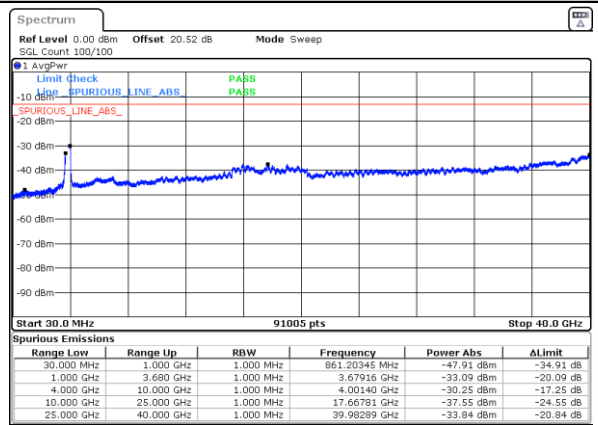
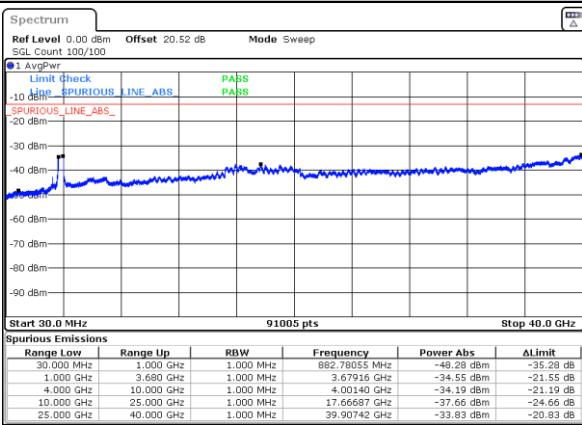


Date: 29\_JAN\_2024 14:16:38

Date: 29\_JAN\_2024 14:19:44

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29\_JAN\_2024 14:26:31

Date: 29\_JAN\_2024 14:22:48



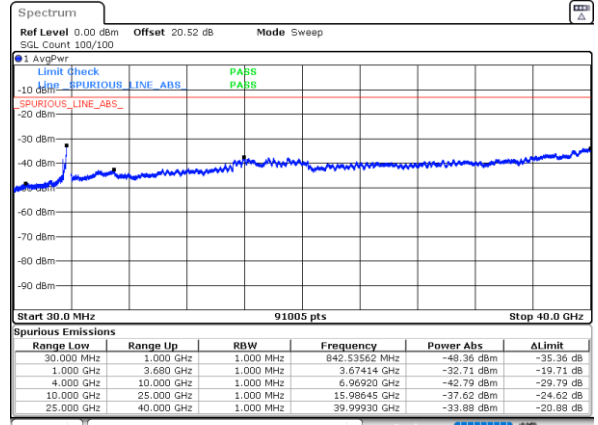
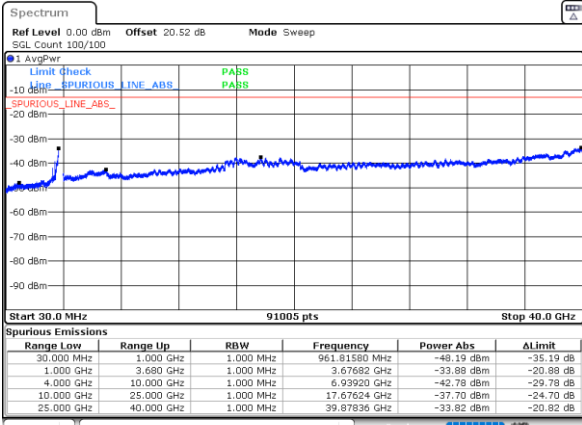
FR1 n77 / 100MHz / CP 16QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

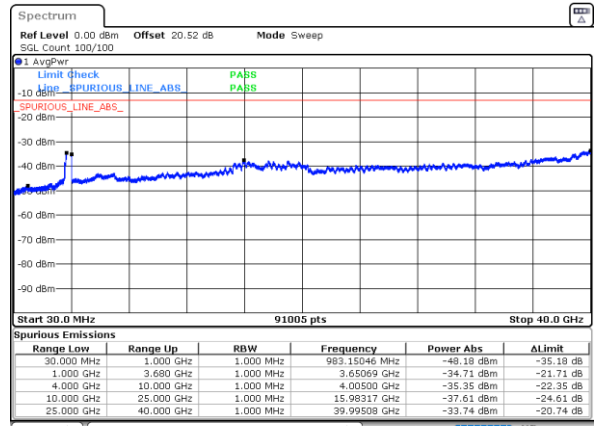
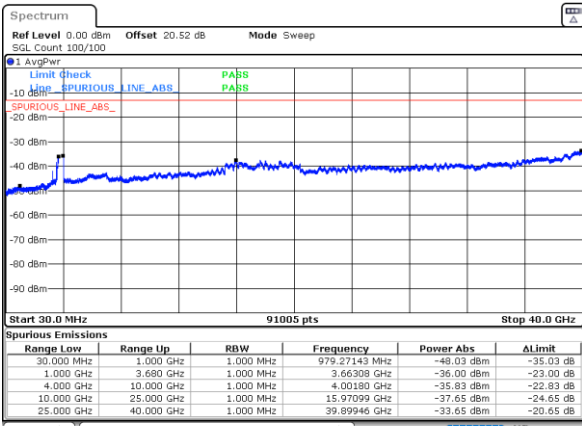


Date: 29\_JAN\_2024 09:00:02

Date: 29\_JAN\_2024 08:51:49

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

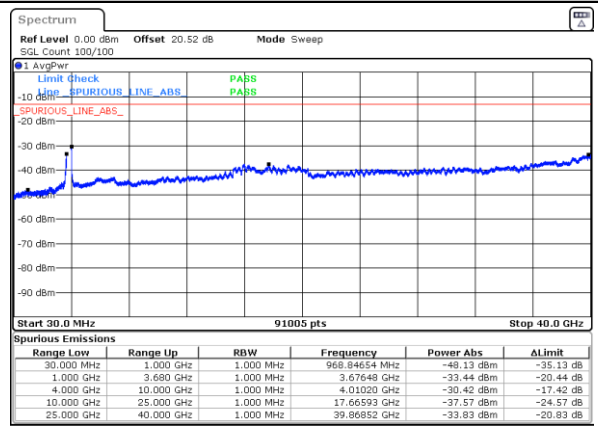
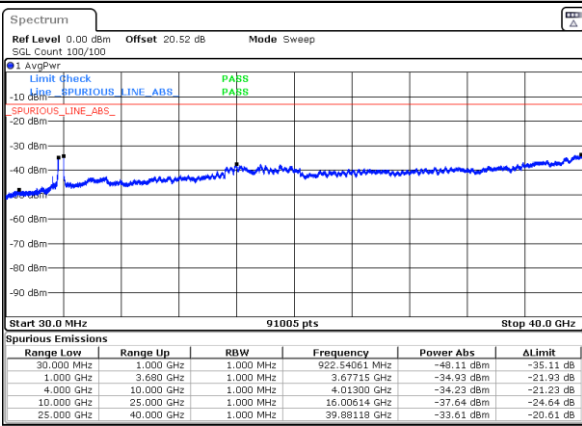


Date: 29\_JAN\_2024 09:59:32

Date: 29\_JAN\_2024 10:03:05

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29\_JAN\_2024 10:30:48

Date: 29\_JAN\_2024 10:27:21



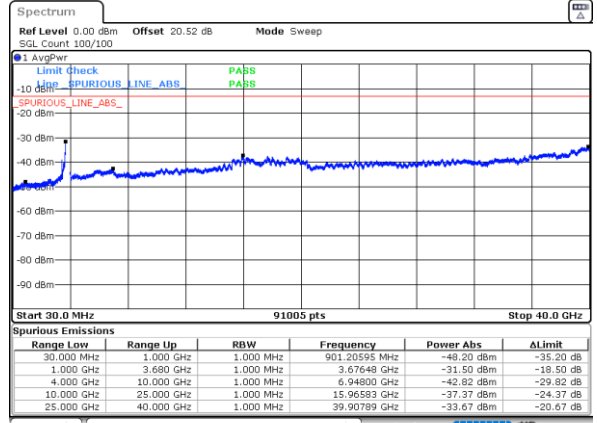
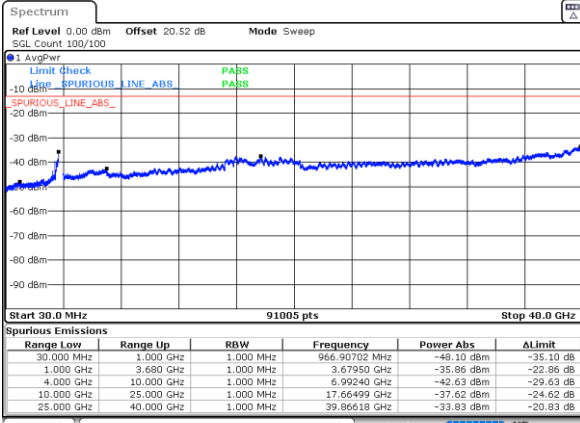
FR1 n77 / 100MHz / CP 64QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

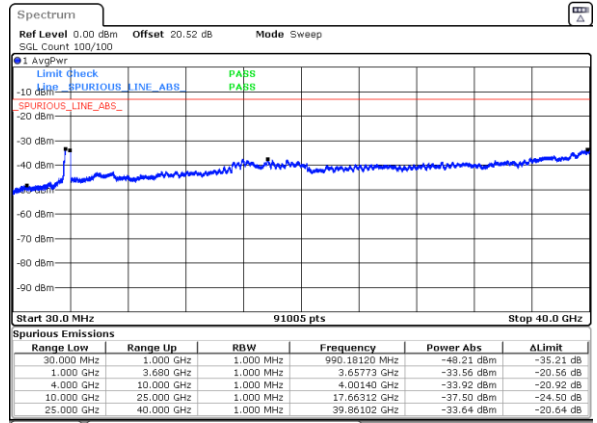
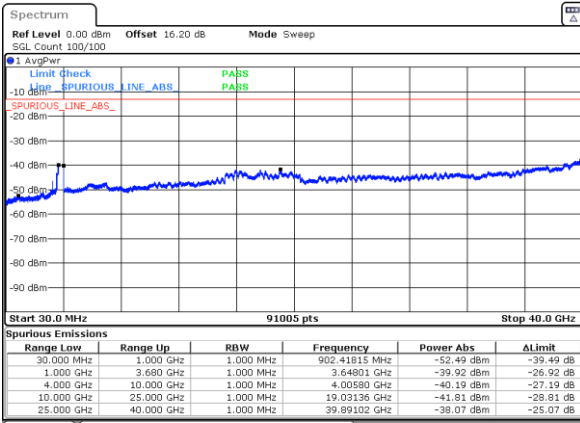


Date: 29\_JAN\_2024 09:10:35

Date: 29\_JAN\_2024 09:16:27

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

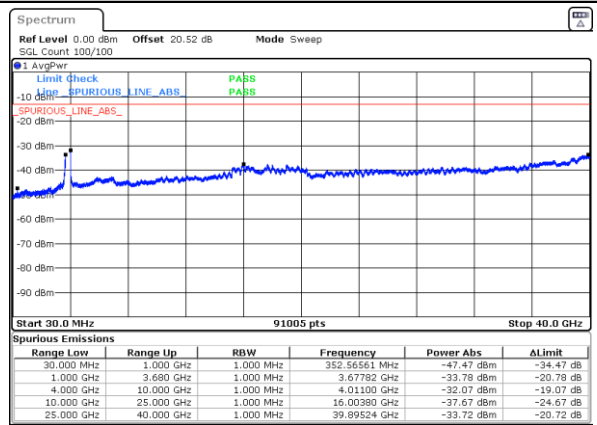
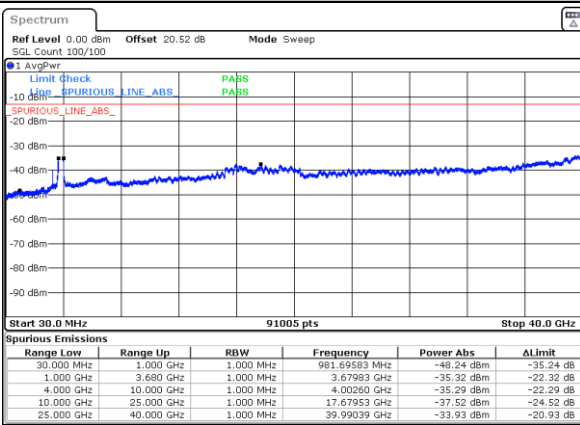


Date: 29\_JAN\_2024 10:14:54

Date: 29\_JAN\_2024 10:16:44

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29\_JAN\_2024 10:43:07

Date: 29\_JAN\_2024 10:52:28



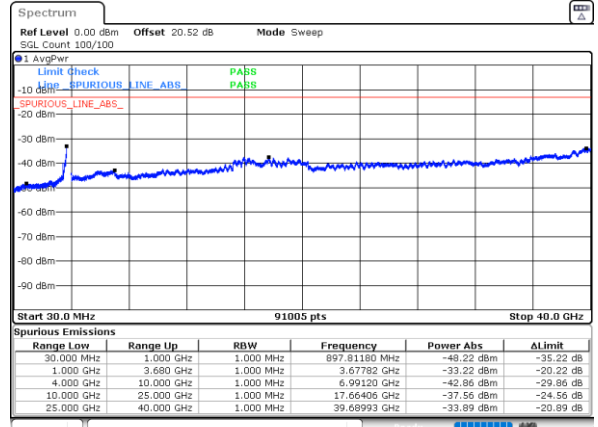
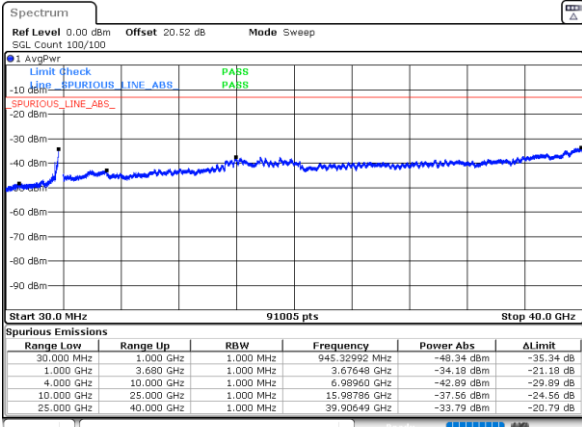
FR1 n77 / 100MHz / CP 256QAM

ANT3

ANT4

Lowest Band Edge / FULL RB

Lowest Band Edge / FULL RB

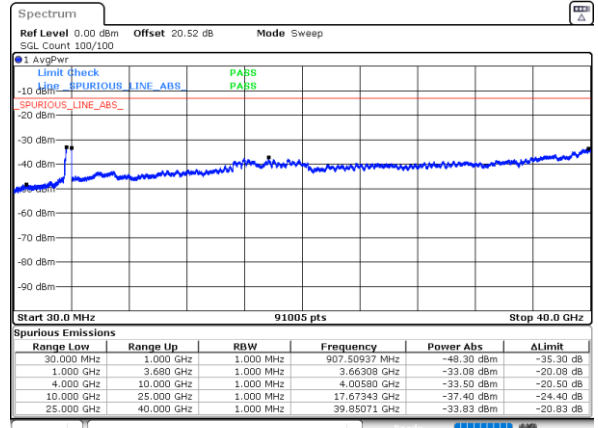
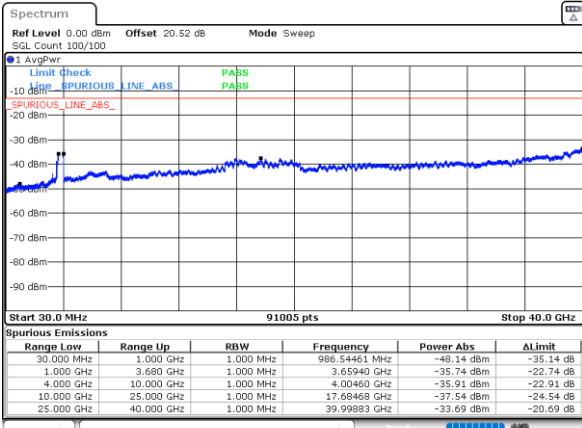


Date: 29\_JAN\_2024 09:49:05

Date: 29\_JAN\_2024 09:46:33

MIDDLE Band Edge / FULLRB

MIDDLE Band Edge / FULLRB

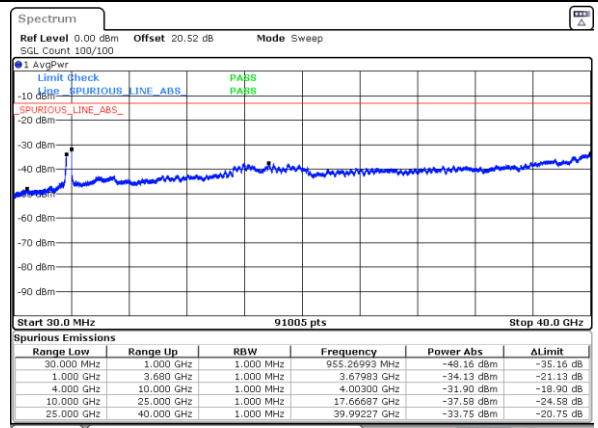
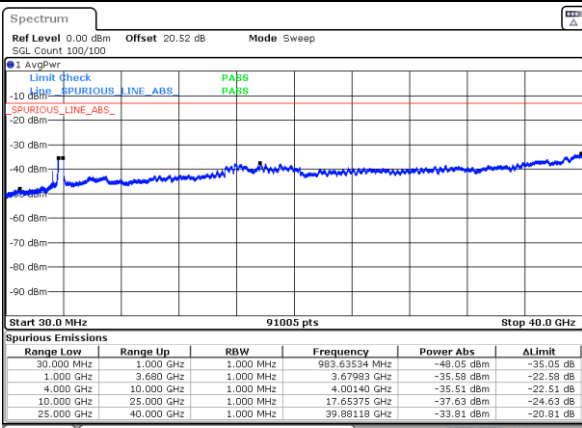


Date: 29\_JAN\_2024 10:18:56

Date: 29\_JAN\_2024 10:21:15

Highest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29\_JAN\_2024 12:05:33

Date: 29\_JAN\_2024 12:00:58



Frequency Stability

Test Conditions		LTE Band 77(QPSK) / ANT3	
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0052	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0104	
-10	Normal Voltage	0.0128	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0074	
20	Minimum Voltage	0.0025	



Test Conditions		LTE Band 77(QPSK) / ANT4	
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0090	
30	Normal Voltage	0.0074	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0123	
0	Normal Voltage	0.0121	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0132	
-30	Normal Voltage	0.0124	
20	Maximum Voltage	0.0112	
20	Normal Voltage	0.0021	
20	Minimum Voltage	0.0099	

**Note:**

1. Normal Voltage =12 V. ; Minimum Voltage =11.4 V. ; Maximum Voltage =12.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.





# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

### <SA mode-UL\_MIMO Ant.3+4>

SA n77 / NR 100MHz / QPSK - UL_MIMO - External Antenna with Adapter mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-31.36	-13	-18.36	-41.57	3.03	13.24	H
	11522	-39.16	-13	-26.16	-48.61	3.56	13.01	H
	15360	-46.88	-13	-33.88	-56.40	3.92	13.44	H
	7679	-29.69	-13	-16.69	-39.90	3.03	13.24	V
	11522	-35.04	-13	-22.04	-44.49	3.56	13.01	V
	15360	-42.36	-13	-29.36	-51.88	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SA n77 / NR 100MHz / QPSK - UL_MIMO - Internal Antenna with Adapter mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-31.87	-13	-18.87	-42.08	3.03	13.24	H
	11522	-37.94	-13	-24.94	-47.39	3.56	13.01	H
	15360	-46.99	-13	-33.99	-56.51	3.92	13.44	H
	7679	-28.97	-13	-15.97	-39.18	3.03	13.24	V
	11522	-33.34	-13	-20.34	-42.79	3.56	13.01	V
	15360	-43.33	-13	-30.33	-52.85	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



SA n77 / NR 100MHz / QPSK - UL_MIMO - Internal Antenna with POE mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-30.79	-13	-17.79	-41.00	3.03	13.24	H
	11522	-36.97	-13	-23.97	-46.42	3.56	13.01	H
	15360	-47.44	-13	-34.44	-56.96	3.92	13.44	H
	7679	-30.26	-13	-17.26	-40.47	3.03	13.24	V
	11522	-34.13	-13	-21.13	-43.58	3.56	13.01	V
	15360	-41.01	-13	-28.01	-50.53	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

<NSA mode-UL\_MIMO, LTE MIMO Ant.1+2 with 5GNR MIMO Ant.3+4 transmit simultaneously>

LTE B4 + 5G NR n77 / LTE 10MHz + NR 100MHz / QPSK - UL_MIMO - External Antenna with Adapter mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-30.98	-13	-17.98	-41.19	3.03	13.24	H
	11522	-37.19	-13	-24.19	-46.64	3.56	13.01	H
	15360	-46.32	-13	-33.32	-55.84	3.92	13.44	H
	7679	-29.04	-13	-16.04	-39.25	3.03	13.24	V
	11522	-32.98	-13	-19.98	-42.43	3.56	13.01	V
	15360	-41.23	-13	-28.23	-50.75	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE B4 + 5G NR n77 / LTE 10MHz + NR 100MHz / QPSK - UL_MIMO - Internal Antenna with Adapter mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-33.99	-13	-20.99	-44.20	3.03	13.24	H
	11522	-38.40	-13	-25.40	-47.85	3.56	13.01	H
	15360	-49.26	-13	-36.26	-58.78	3.92	13.44	H
	7679	-29.93	-13	-16.93	-40.14	3.03	13.24	V
	11522	-33.97	-13	-20.97	-43.42	3.56	13.01	V
	15360	-41.70	-13	-28.70	-51.22	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE B66 + 5G NR n77 / LTE 10MHz + NR 100MHz / QPSK - UL_MIMO - External Antenna with Adapter mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-30.77	-13	-17.77	-40.98	3.03	13.24	H
	11522	-36.71	-13	-23.71	-46.16	3.56	13.01	H
	15360	-45.78	-13	-32.78	-55.30	3.92	13.44	H
	7679	-29.48	-13	-16.48	-39.69	3.03	13.24	V
	11522	-34.21	-13	-21.21	-43.66	3.56	13.01	V
	15360	-41.85	-13	-28.85	-51.37	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE B66 + 5G NR n77 / LTE 10MHz + NR 100MHz / QPSK - UL_MIMO - Internal Antenna with Adapter mode								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7679	-30.41	-13	-17.41	-40.62	3.03	13.24	H
	11522	-34.80	-13	-21.80	-44.25	3.56	13.01	H
	15360	-46.73	-13	-33.73	-56.25	3.92	13.44	H
	7679	-29.77	-13	-16.77	-39.98	3.03	13.24	V
	11522	-30.16	-13	-17.16	-39.61	3.56	13.01	V
	15360	-41.75	-13	-28.75	-51.27	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.