FCC PART 90M C-V2X WAIVER REPORT

Applicant:	Cohda Wireless Pty Ltd.
Address:	27 Greenhill Road Wayville SA 5034 Australia

Manufacturer or Supplier	Cohda Wireless Pty Ltd.
Address	27 Greenhill Road Wayville SA 5034 Australia
Product	Road-Side (Transceiver) Unit for infrastructure.
Brand Name	Cohda Wireless
Model Name	MK6 RSU
Series Model	MK6 RSU
FCC ID	2AEGPMK6RSU
Date of tests	Sep. 25, 2023 ~ Nov. 07, 2023
The tests have been carried out according to the requirements of the following standard:	
☒ **KDB511808 D01 C-V2X Waiver v01,ANSI C63.26-2015**	
CONCLUSION: The submitted sample was found to COMPLY with the test requirement	

Prepared by Chao Wu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
Chao Wu Date: Nov. 07, 2023	Sun Pei bo Date: Nov. 07, 2023

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2306260109RF12	Original release	Nov. 07, 2023

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD			
No.	**Test Description**	**Remark**	**Test result**
1	Occupied bandwidth	Applicable	Compliance
2	C-2VX Transmit Power	Applicable	Compliance
3	Emissions Mask	Applicable	Compliance

***Test Lab Information Reference**

Lab :

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Average EIRP	±4.70dB
Occupied Channel Bandwidth	±43.58KHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Fed.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.24,22	Nov.23,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.24,22	Nov.23,25
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Biconical Antenna	SCHWARZ	VUBA 9117	69250	Nov.14,22	Nov.13,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Arp.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Arp.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.27,23	Apr.26,24
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

NOTE:

1. The calibration interval of the above test instruments is 6 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Fully-anechoic Chamber.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.3 TEST ENVIRONMENT

Environment Parameter	96~98 kPa Selected Values During Tests	
Relative Humidity	40-60 % RH Ambient	
Value	**Temperature(℃)**	**Voltage(V)**
NTNV	25	48
LTLV	-20	40.8
LTHV	-20	55.2
HTLV	75	40.8
HTHV	75	55.2
Remark:		
NV: Normal Voltage LV: Low Extreme Test Voltage HV: High Extreme Test Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		
The EUT was tested by adjustable DC power supply.		

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Road-Side (Transceiver) Unit for infrastructure.	
BRAND NAME*	Cohda Wireless	
MODEL NAME*	MK6 RSU	
SERIES MODEL*	MK6 RSU	
NOMINAL VOLTAGE*	48Vdc(POE Adapter)	
EXTREME TEMPERATURE*	-20℃ and 75℃	
MODULATION TYPE*	**C-V2X**	BPSK,QPSK,16QAM,64QAM
OPERATING FREQUENCY*	**C-V2X**	5895 MHz – 5925 MHz
ANTENNA GAIN*	**C-V2X**	ANT 0:6.10 dBi ANT 1:6.10 dBi
ANTENNA TYPE*	**C-V2X**	Dipole Antenna
FCC ID*	2AEGPMK6RSU	
HW VERSION*	Rev 1.0	
SW VERSION*	19.Release.134186	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	

NOTE:

1. ***Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3. The EUT incorporates a SISO function. Physically, the EUT provides two transmitters and two receivers. Both ICs share the 2 X C-V2X antenna ports through the use of RF switches and combiners but MK6 does not support MIMO on C-V2X.

MODULATION MODE	TX/RX FUNCTION
BPSK (1/2,3/4)	2TX /2RX
QPSK (1/2,3/4)	2TX /2RX
16QAM (1/2,3/4)	2TX /2RX
64QAM (2/3,3/4)	2TX /2RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	MANUFACTURER	MODEL
2x Antenna for LTE/2G/3G/CDMA	Taoglas	TG.80.4H31
1x Antenna for WLAN/BT	HUBER+SUHNER	1399.17.0224
1x Antenna for WLAN/BT	HUBER+SUHNER	1399.17.0224
2x Antenna for DSRC	Taoglas	TD.80.6H31
1x Antenna for GNSS	Taoglas	TLS.40.1F11
1xM12 field attachable connector	Amphenol	MSXS-08BMMD-SL8001

2.2 DESCRIPTION OF TEST MODES

According to requirements of 511808 D01 C-V2X Waiver v01, under part 2 subpart J of the Commission rules to permit operation of cellular vehicle-to-everything (C-V2X) technology in the upper 30 megahertz (5895-5925 MHz) of the 5.9 GHz band (5850- 5925 MHz).

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
Occupied bandwidth	25deg. C, 60%RH	DC 48V By POE Adapter	Chao Wu
C-2VX Transmit Power	25deg. C, 60%RH	DC 48V By POE Adapter	Chao Wu
Emissions Mask	25deg. C, 60%RH	DC 48V By POE Adapter	Chao Wu

2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

ANSI C63.26-2015
KDB 511808 D01
All tests have been performed and recorded as per the above standard.

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units.

For test

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PC	Lenovo	ThinkPad E14	HRSW00024	N/A
2	POE Adapter	N/A	N/A	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

3. TEST TYPES AND RESULTS

3.1 OCCUPIED BANDWIDTH

3.1.1 LIMIT OF OCCUPIED BANDWIDTH

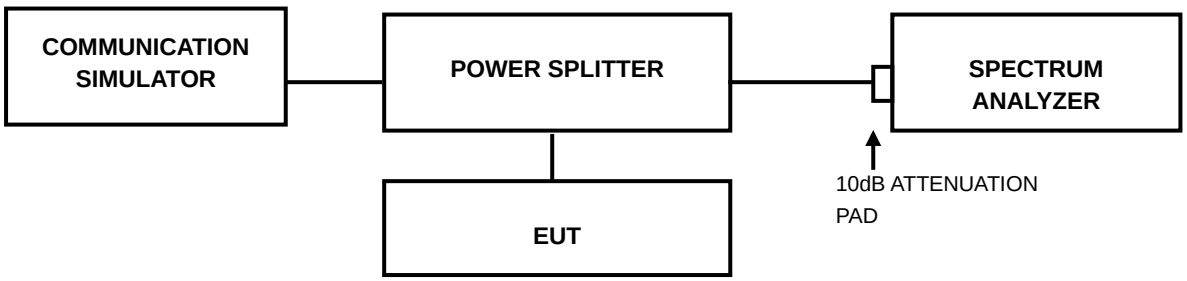
The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

3.1.2 TEST PROCEDURES

1.FOR 99 PERCENT OCCUPIED BANDWIDTH
2.The following procedure shall be used for measuring (99 %) power bandwidth:
3. Set center frequency to the nominal EUT channel center frequency.
4.Set span = 1.5 times to 5.0 times the OBW.
5. Set RBW = 1 % to 5 % of the OBW
6. Set VBW ≥ 3 · RBW
7. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
8. Use the 99 % power bandwidth function of the instrument (if available).
9. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

10.FOR 26dB BANDWIDTH
11.Set RBW = approximately 1% of the emission bandwidth.
12.Set the VBW > RBW.
13.Detector = Peak.
14. Trace mode = max hold.
15.Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

3.1.3 TEST SETUP



3.1.4 TEST RESULTS

Test Result

TEST MODE	Channel	Antenna	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
C-V2X	5905	Ant0	17.79	18.66	---	PASS
		Ant1	17.89	18.46	---	PASS
	5910	Ant0	17.85	18.58	---	PASS
		Ant1	17.79	18.50	---	PASS
	5915	Ant0	17.91	18.66	---	PASS
		Ant1	17.83	18.50	---	PASS

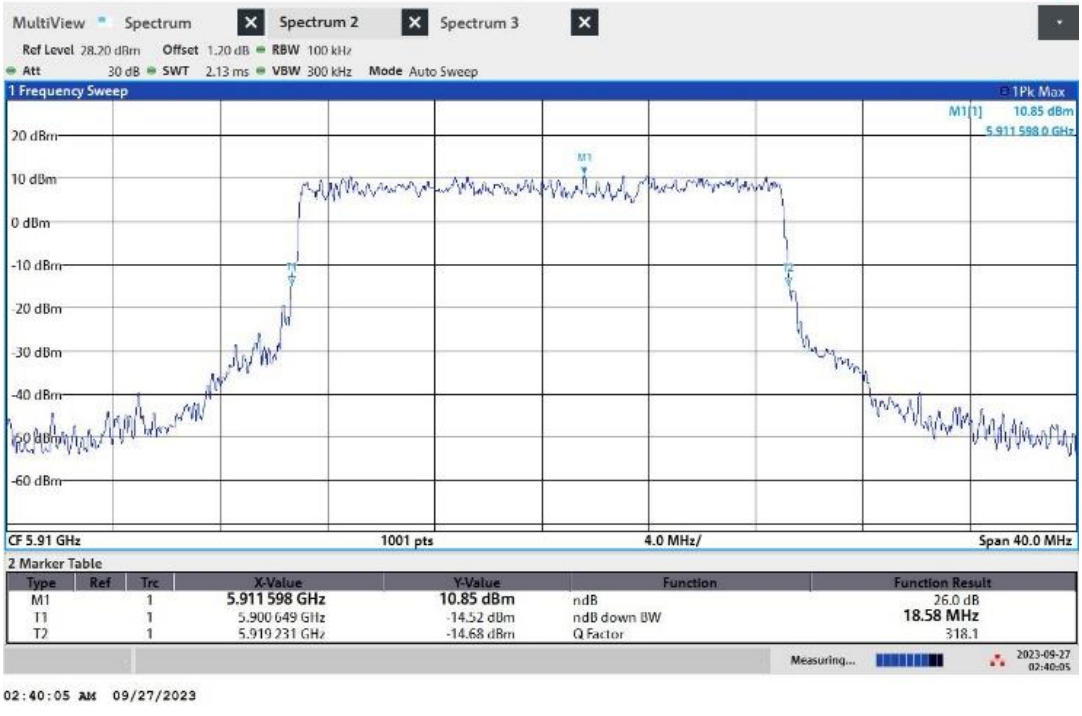
Test Graphs

26 dB Bandwidth

5905-ANT 0

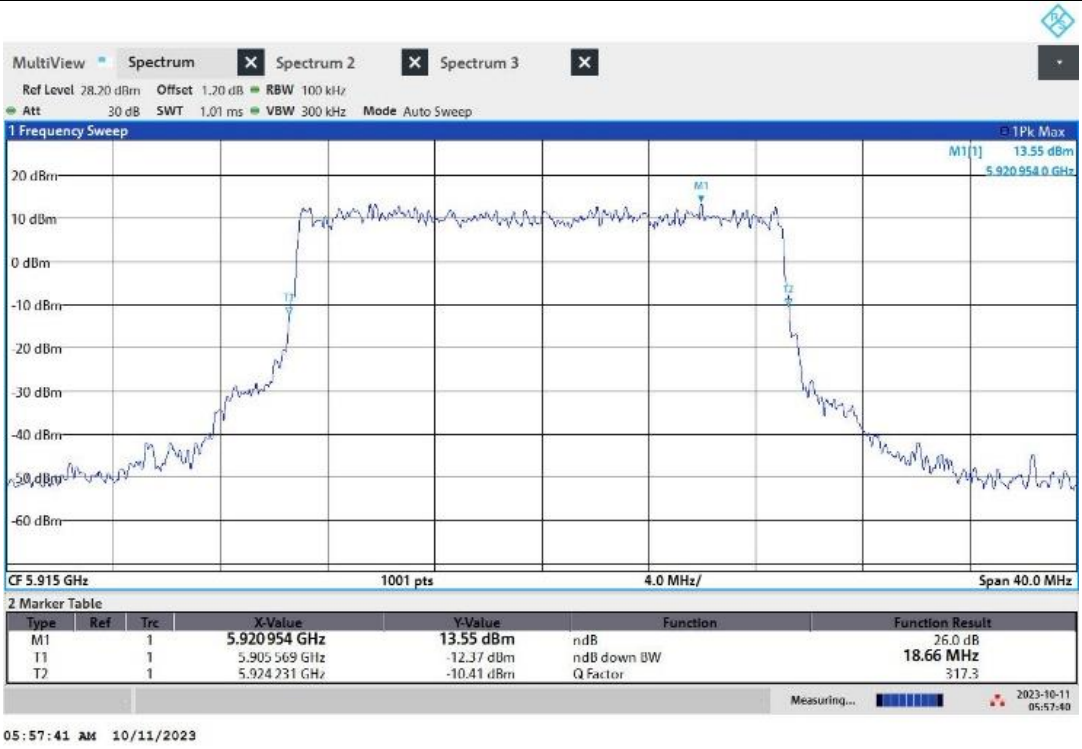
5905-ANT 1

5910-ANT 0



5910-ANT 1

5915-ANT 0

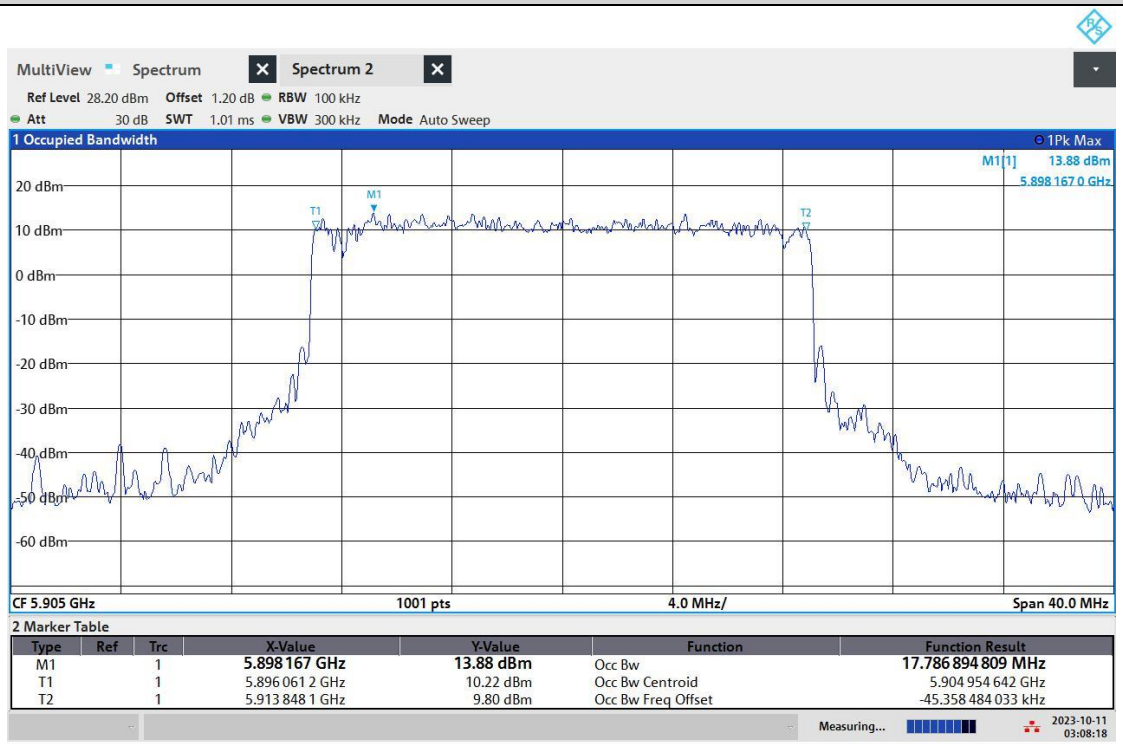


5915-ANT 1


MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 28.20 dBm Offset 1.20 dB RBW 100 kHz
Att 30 dB SWT 1.01 ms VBW 300 kHz Mode Auto Sweep
1 Frequency Sweep
1Pk Max
M1[1] 13.04 dBm
5.923 152 0 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.915 GHz
1001 pts
4.0 MHz/
Span 40.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 5.923 152 GHz 13.04 dBm ndB 26.0 dB
T1 1 5.905 849 GHz -14.37 dBm ndB down BW 18.50 MHz
T2 1 5.924 351 GHz -13.15 dBm Q Factor 320.1
Measuring...
2023-10-11
05:25:09
05:25:10 AM 10/11/2023

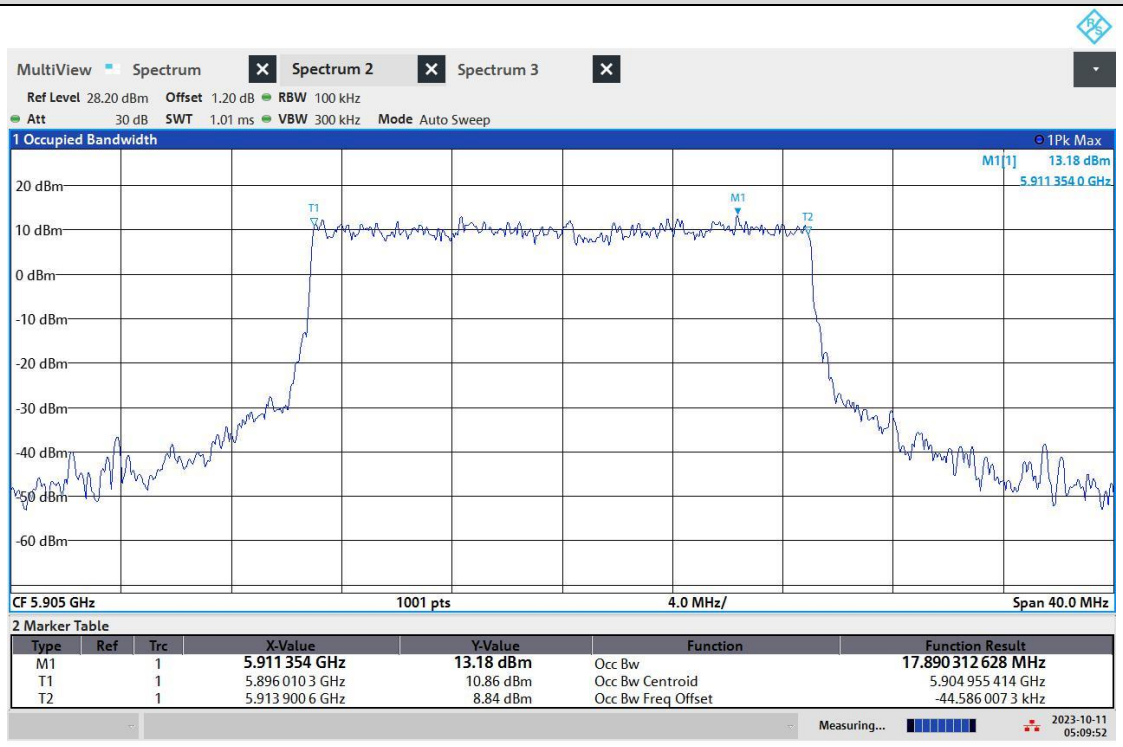
99% Bandwidth

5905-ANT 0



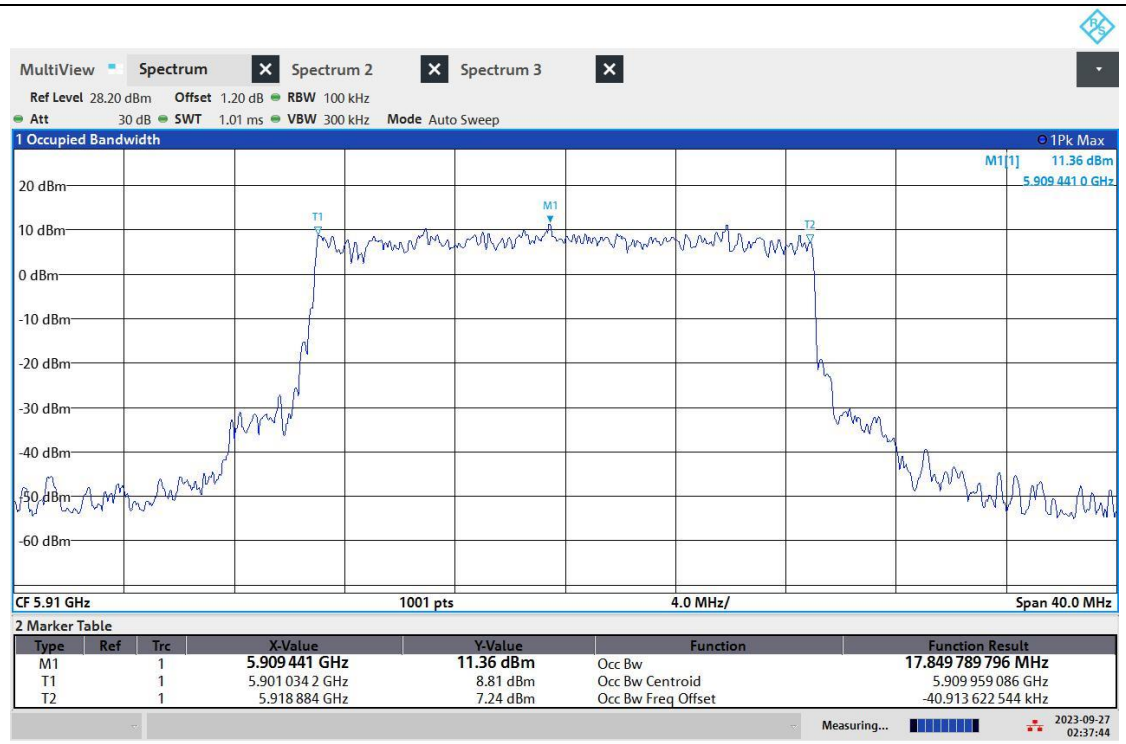
03:08:19 AM 10/11/2023

5905-ANT 1

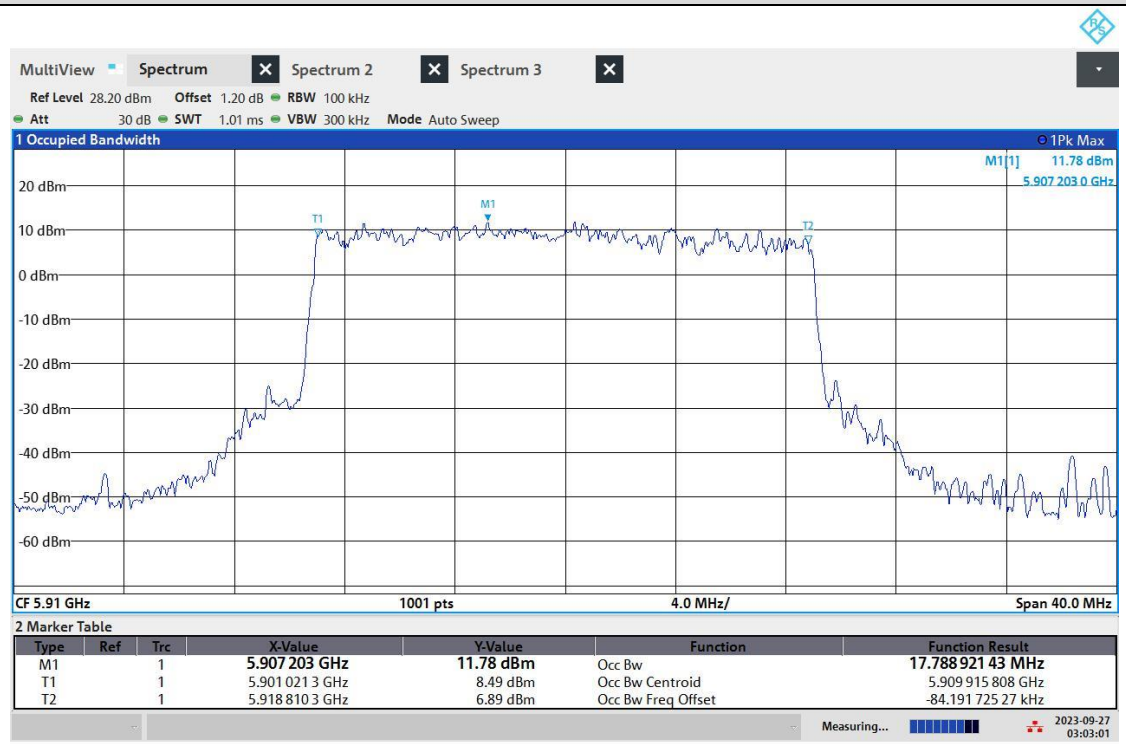


05:09:53 AM 10/11/2023

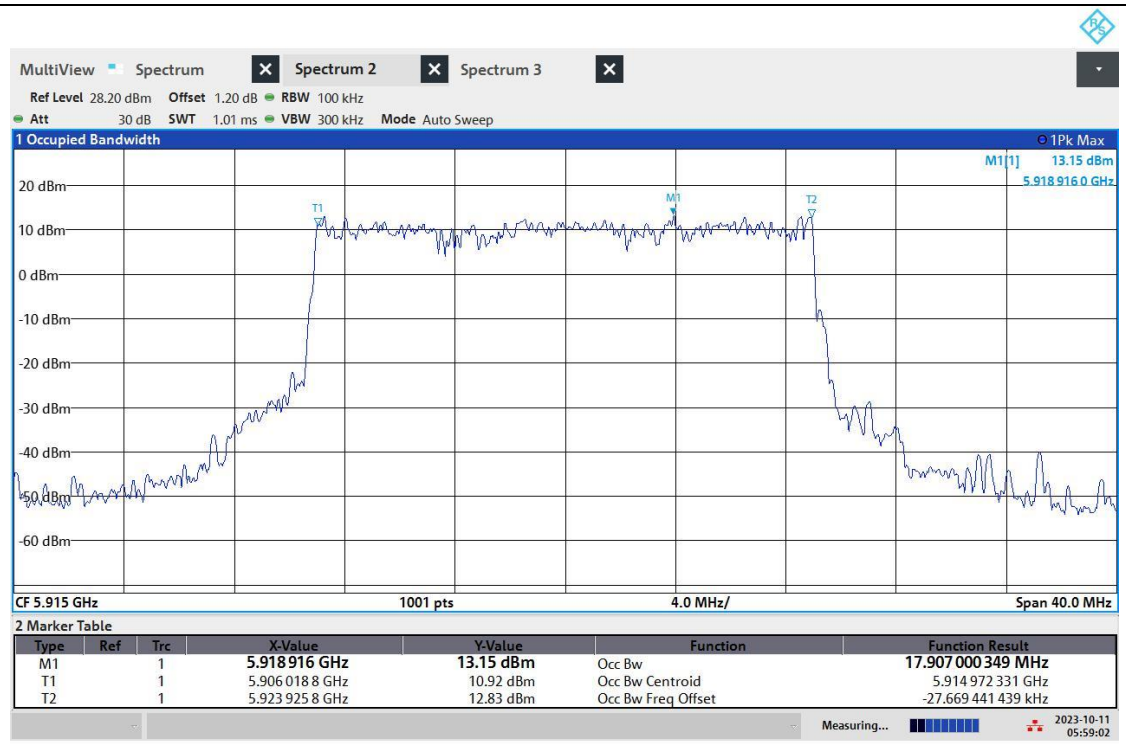
5910-ANT 0



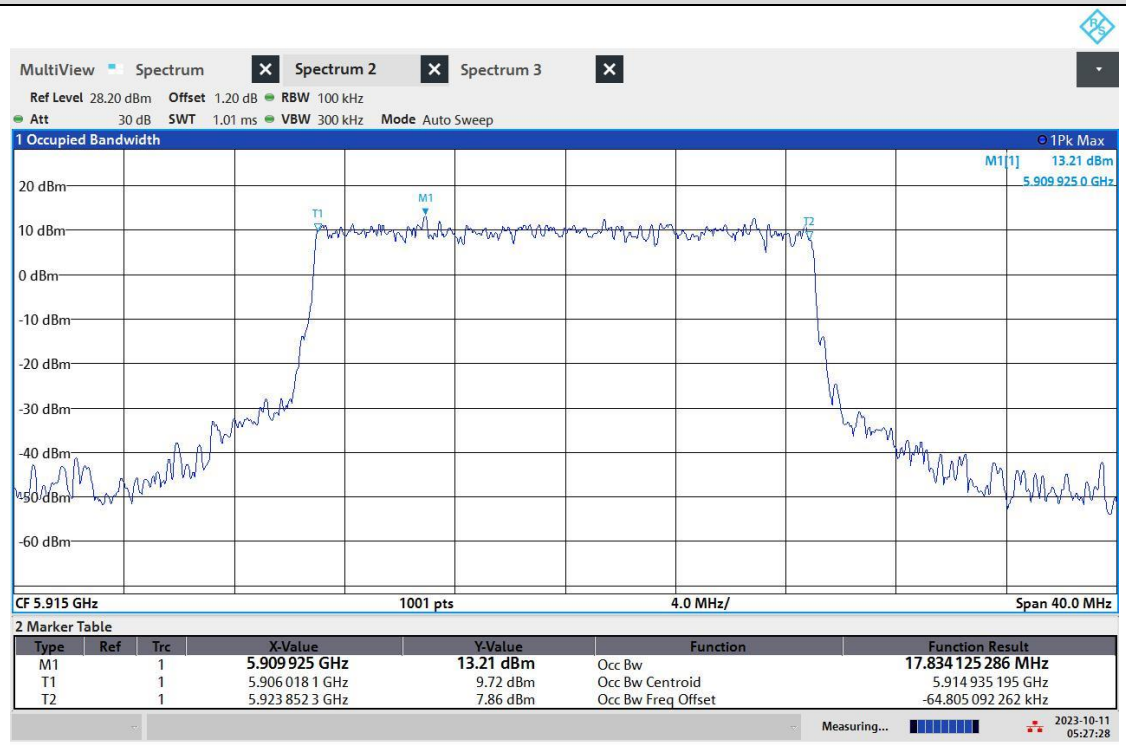
5910-ANT 1



5915-ANT 0


MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 28.20 dBm Offset 1.20 dB RBW 100 kHz
Att 30 dB SWT 1.01 ms VBW 300 kHz Mode Auto Sweep
1 Occupied Bandwidth
1Pk Max
M1[1] 13.15 dBm
5.918 916 0 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.915 GHz
1001 pts
4.0 MHz/
Span 40.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 5.918 916 GHz 13.15 dBm Occ Bw 17.907 000 349 MHz
T1 1 5.906 018 8 GHz 10.92 dBm Occ Bw Centroid 5.914 972 331 GHz
T2 1 5.923 925 8 GHz 12.83 dBm Occ Bw Freq Offset -27.669 441 439 kHz
Measuring...
2023-10-11
05:59:02
05:59:03 AM 10/11/2023

5915-ANT 1


MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 28.20 dBm Offset 1.20 dB RBW 100 kHz
Att 30 dB SWT 1.01 ms VBW 300 kHz Mode Auto Sweep
1 Occupied Bandwidth
1Pk Max
M1[1] 13.21 dBm
5.909 925 0 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.915 GHz
1001 pts
4.0 MHz/
Span 40.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 5.909 925 GHz 13.21 dBm Occ Bw 17.834 125 286 MHz
T1 1 5.906 018 1 GHz 9.72 dBm Occ Bw Centroid 5.914 935 195 GHz
T2 1 5.923 852 3 GHz 7.86 dBm Occ Bw Freq Offset -64.805 092 262 kHz
Measuring...
2023-10-11
05:27:28
05:27:28 AM 10/11/2023

3.2 C-V2X TRANSMIT POWER

3.2.1 LIMITS

C-V2X OBU and RSU Operations

Frequency Range	Channel Bandwidth	OBU Limits	RSU EIRP Limit
5905-5925 MHz	20 MHz	33 dBm EIRP*; 27dBm EIRP within 5 degrees of horizontal	33 dBm EIRP

*EIRP (equivalent isotropically radiated power)

3.2.2 TEST PROCEDURES

According to requirements of 511808 D01 C-V2X Waiver v01, RSU Transmit Power Test Procedures：

a. A roadside unit (RSU) employing C-V2X technologies shall have a maximum transmit power not to exceed the EIRP provided in the relevant waiver grant. Compliance with the EIRP limit may be demonstrated for the RSU using conducted power measurements in conjunction with the antenna data sheet or antenna pattern measurements. The test procedures outlined in ANSI C63.26-2015 section 5.2 are generally applicable and may be used to demonstrate compliance for the RSU.
b. Limits for OBUs and RSUs are in terms of an AVERAGE detector.

3.2.3 TEST SETUP

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.4 TEST RESULTS

Test Mode	Freq. [MHz]	Antenna rotation range	Antenna	EIRP (dBm)		EIRP Limit [dBm]	Verdict
				Peak Power [dBm]	Avg. Power [dBm]		
C-V-2X	5905	±5°	ANT0	16.23	13.71	≤33.00	PASS
			ANT1	15.18	13.23	≤33.00	PASS
	5910		ANT0	16.17	13.45	≤33.00	PASS
			ANT1	15.15	12.72	≤33.00	PASS
	5915		ANT0	16.24	14.14	≤33.00	PASS
			ANT1	15.76	13.65	≤33.00	PASS

3.3 EMISSIONS MASK

3.3.1 LIMITS

C-V2X Out-of-Band Emissions (OOBE) Limits

Frequency Offset (MHz from Channel Edge)	OOBE EIRP Limits for C-V2X Transmissions (dBm/100 kHz)**
0.0	-16.0
1.0	-22.0
10.0	-30.0
20.0	-40.0

3.3.2 TEST PROCEDURE

According to requirements 511808 D01 C-V2X Waiver v01, An illustration of an emissions mask that may be applicable to RSUs and OBUs can be found in Figure 2.

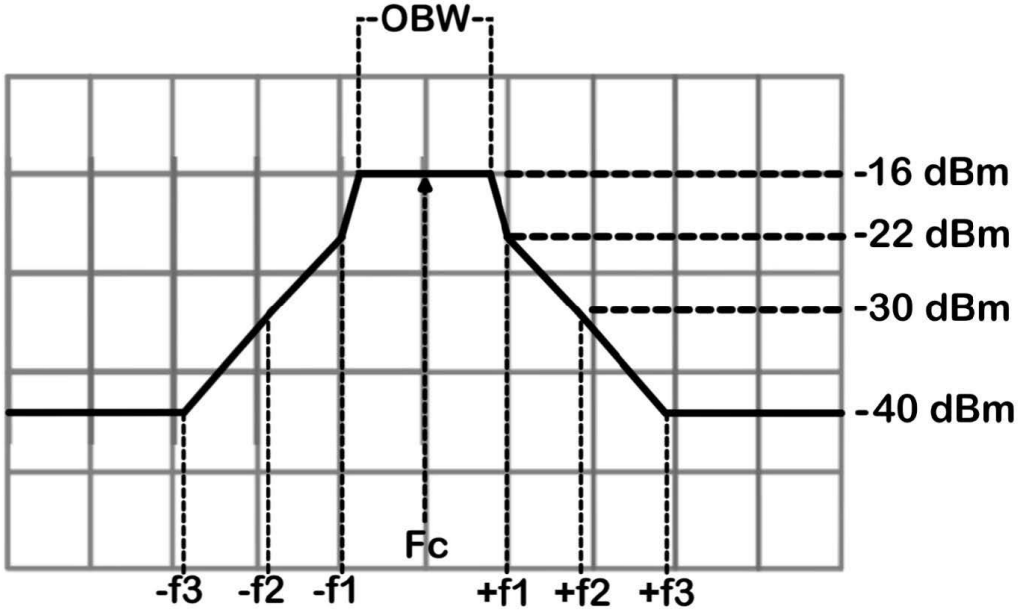
a. Mask Test Procedure

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI 63.10-2013.
3. Measure the 99% occupied bandwidth (OBW) using proper test procedures. This will be used to determine the channel edge.
4. Measure the power spectral density of the channel using the following procedure:
5. Set instrument center frequency to the frequency of channel being measured.
6. Set the span to at least 4 times the OBW.
7. Set resolution bandwidth (RBW) = 100 kHz.
8. Set video bandwidth (VBW) = 30 kHz
9. Number of points in sweep ≥ [2 X span / RBW].
10. Sweep time = auto.
11. Detector = Peak
12. Trace mode = max hold.
13. Allow trace to fully stabilize.
14. In the case of devices which use multiple-input multiple-output (MIMO) technology, please follow the guidance in 662911 D01 Multiple Transmitter Output v02r01 E) 2) methods a) or c).
15. Use the instrumentation correction factors to account for cable loss and antenna gain since the final result is PSD EIRP. In the case of MIMO devices, please follow the guidance of 662911 D03 MIMO Antenna Gain Measurement v01 in determining aggregate antenna gain.

b. For the purposes of developing the emissions mask, the channel edge is defined as the offset from the frequency center (Fc) by ± OBW/2. Keep in mind, the emissions mask is based upon an absolute EIRP value in dBm/100 kHz and not a relative change in amplitude (dBr). Therefore, it is not necessary to adjust the reference level so that the

crest of the channel touches the top of the emissions mask. Using the measuring equipment limit line function, develop the emissions mask based on the emissions limits at the frequency offsets specified in the relevant waiver grant. For example, Figure 2 illustrates the emissions mask for the emissions levels at the frequency offsets described below:

1. The top of the mask is the 99% OBW with an emissions level of -16 dBm/100 kHz.
2. +f1 and -f1 is a frequency offset of 1 MHz from the channel edge with an emissions level of -22 dBm/100 kHz.
3. +f2 and -f2 is a frequency offset of 10 MHz from the channel edge with an emissions level of -30 dBm/100 kHz.
4. +f3 and -f3 is a frequency offset of 20 MHz from the channel edge with an emissions level of -40 dBm/100 kHz.



3.3.3 TEST SETUP

Step 1:

• Connect the DUT transmitter output to the test setup and activate normal operation at maximum output power.

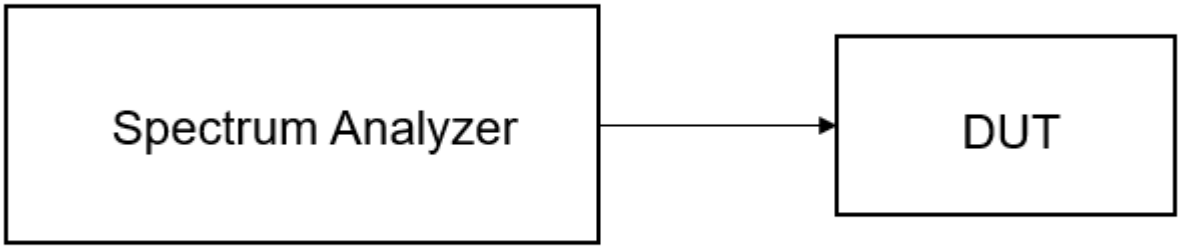
Step 2:

• Measure the average power in the transmission bandwidth (fc ± 4,5 MHz) using a resolution bandwidth of 100 kHz. This shall be recorded as the "Power Spectral Density at the carrier centre frequency fc" according to Table 6.

Step 3:

• Measure the power level in the range of fc ± 15 MHz with a resolution bandwidth of 100 kHz and record these values.

• The video signal of the spectrum analyser can be "gated" such that the spectrum measured is measured 4,0 μs before the beginning of the transmission to 4,0 μs after the end of the transmission.



3.3.4 TEST RESULTS

Test Result

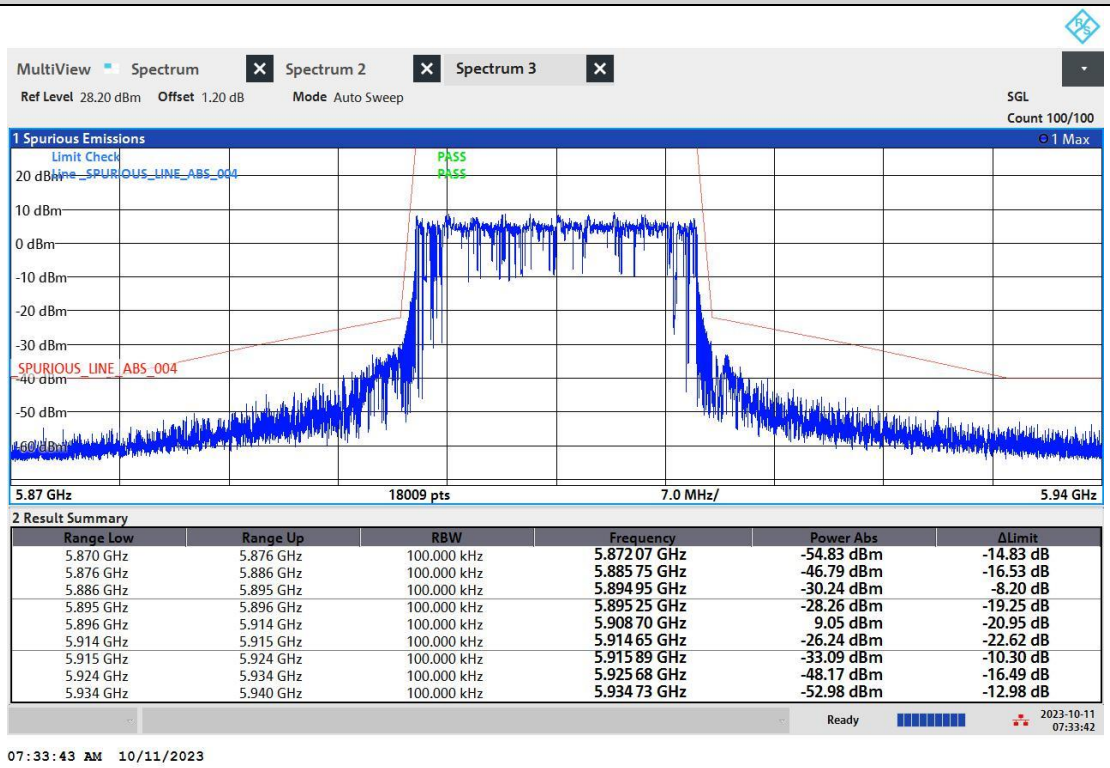
TEST MODE	Frequency [MHz]	Measurement Results [dBc]		Limits [dBc]	Results
		ANT0	ANT1		
C-V2X	5905	Note	Note	Note	PASS
	5910	Note	Note	Note	PASS
	5915	Note	Note	Note	PASS

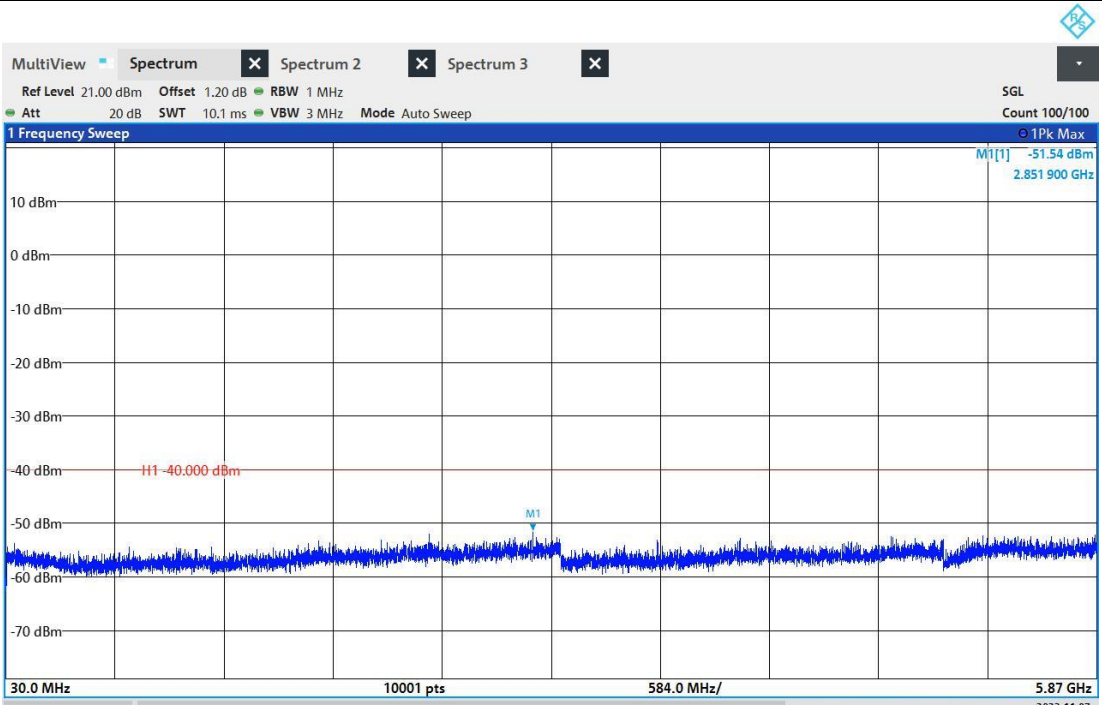
NOTE: Refer to following test plots

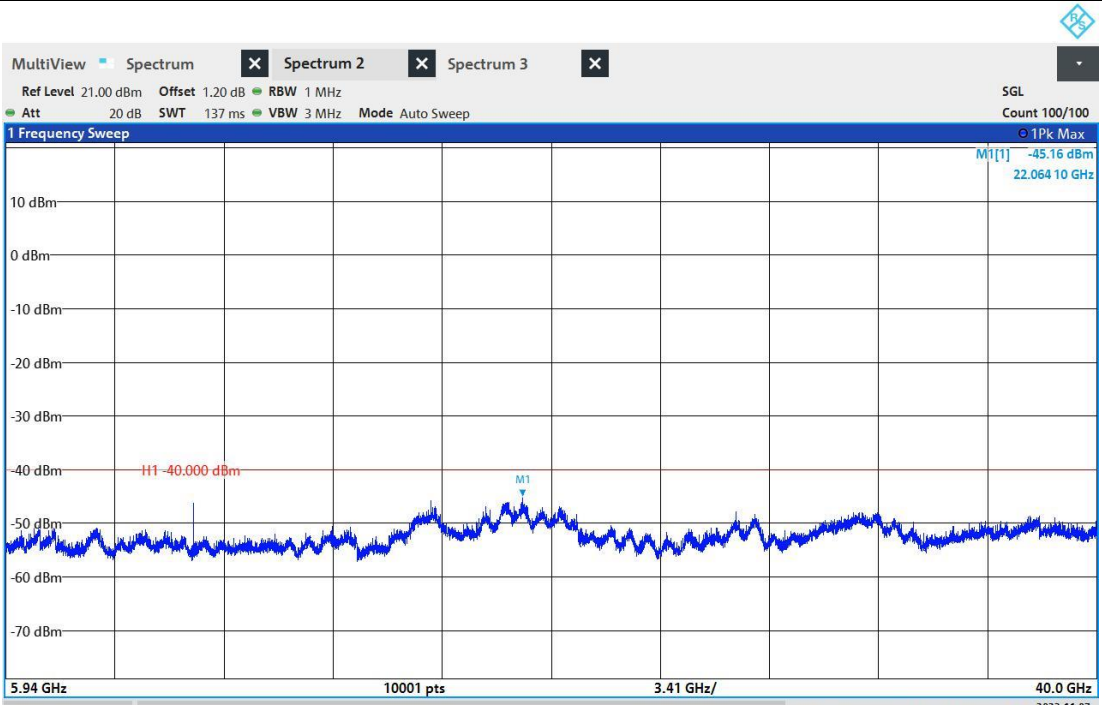
Test Graphs

Transmit Spectrum Mask

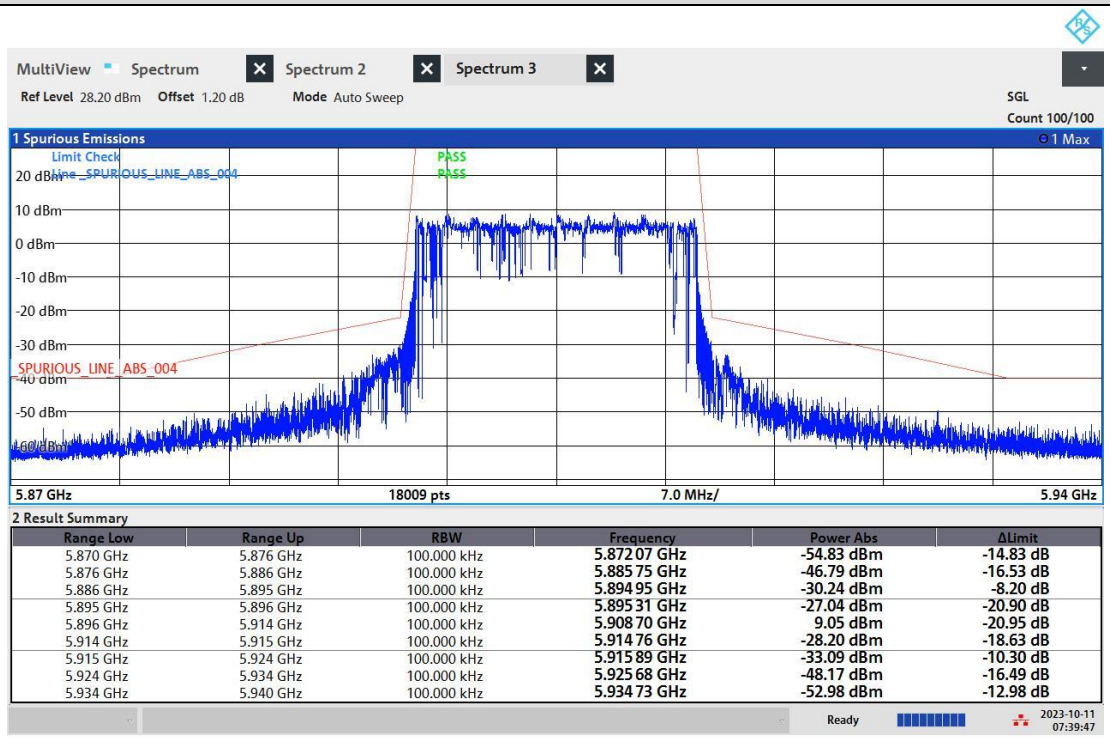
5905-ANT 0



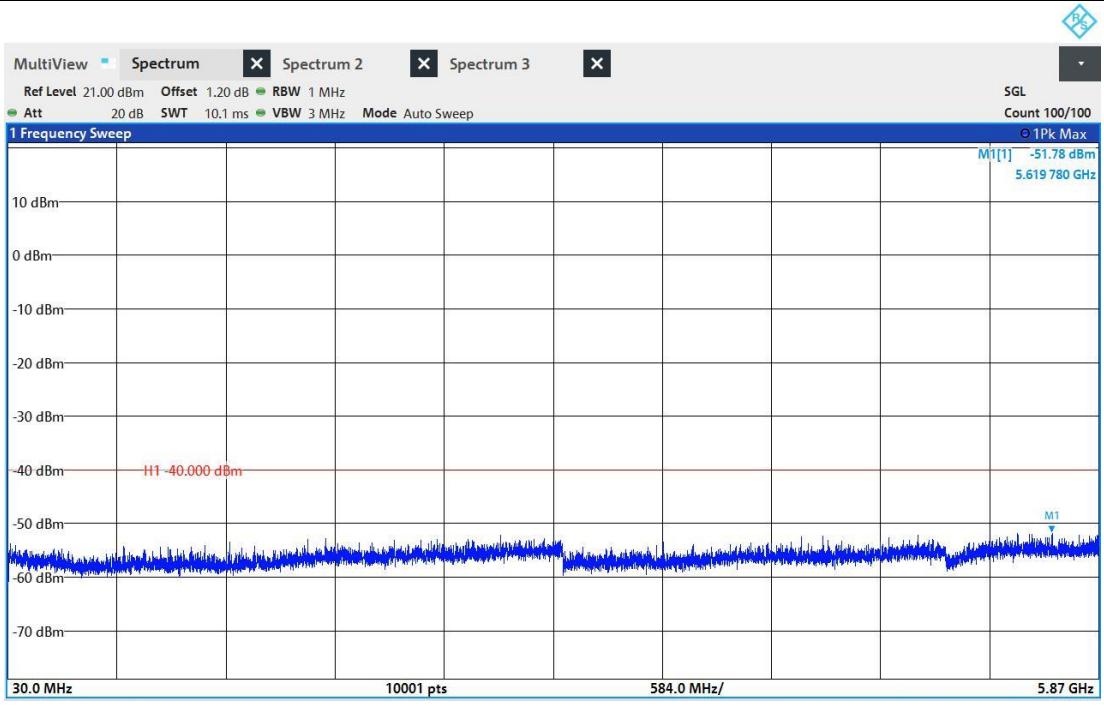

MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -51.54 dBm
2.851 900 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
30.0 MHz
10001 pts
584.0 MHz/
5.87 GHz

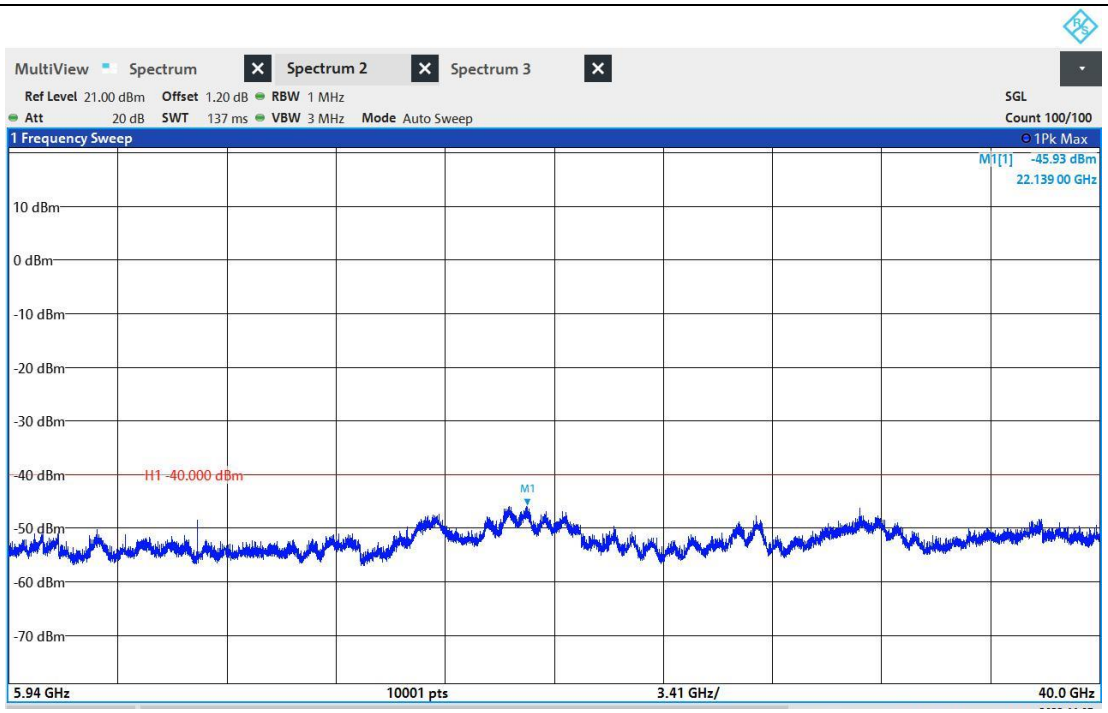

MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 137 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -45.16 dBm
22.064 10 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
5.94 GHz
10001 pts
3.41 GHz/
40.0 GHz

5905-ANT 1

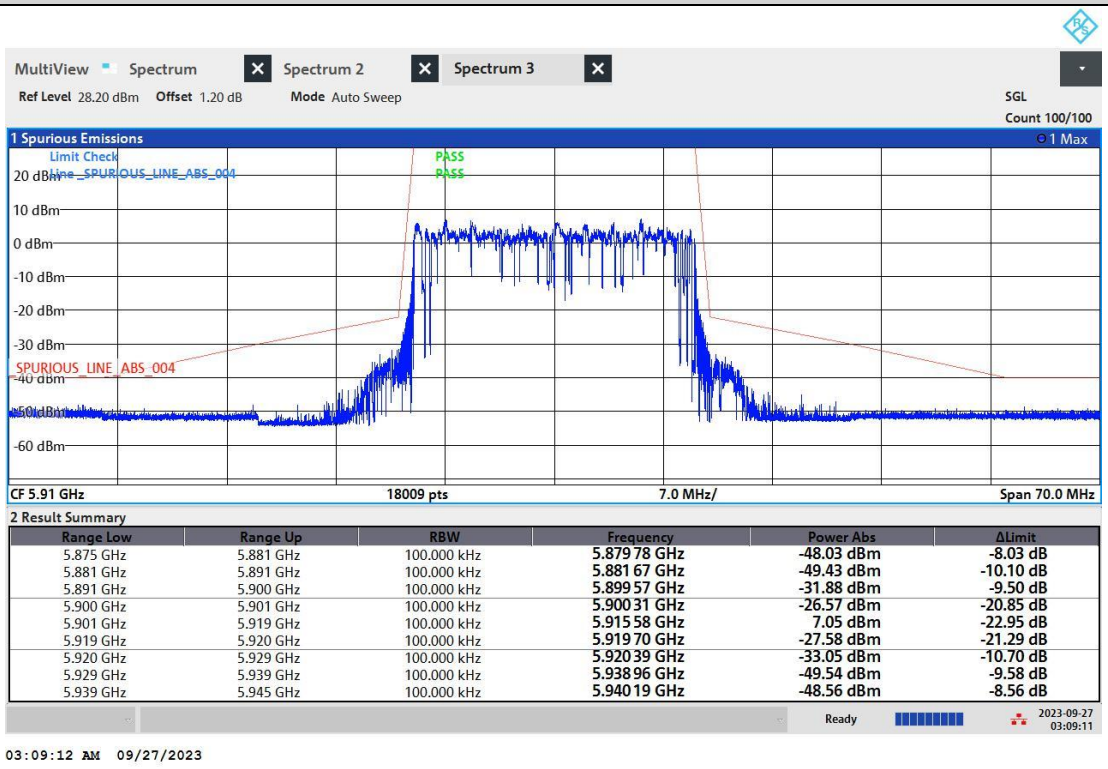


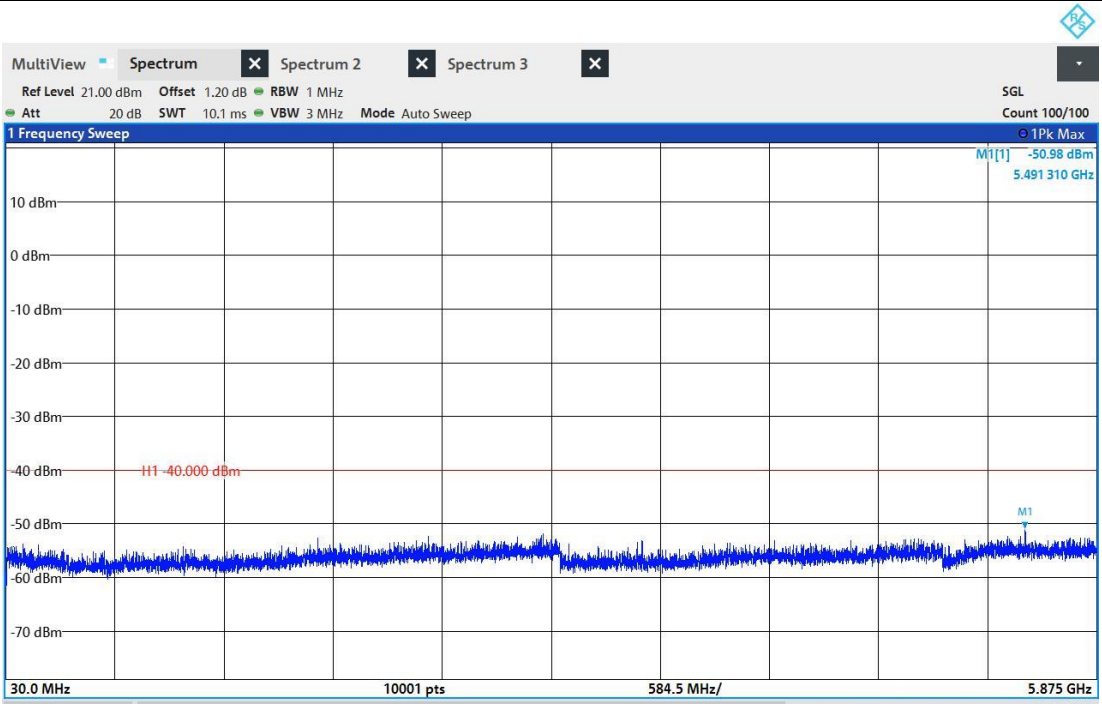
07:39:48 AM 10/11/2023

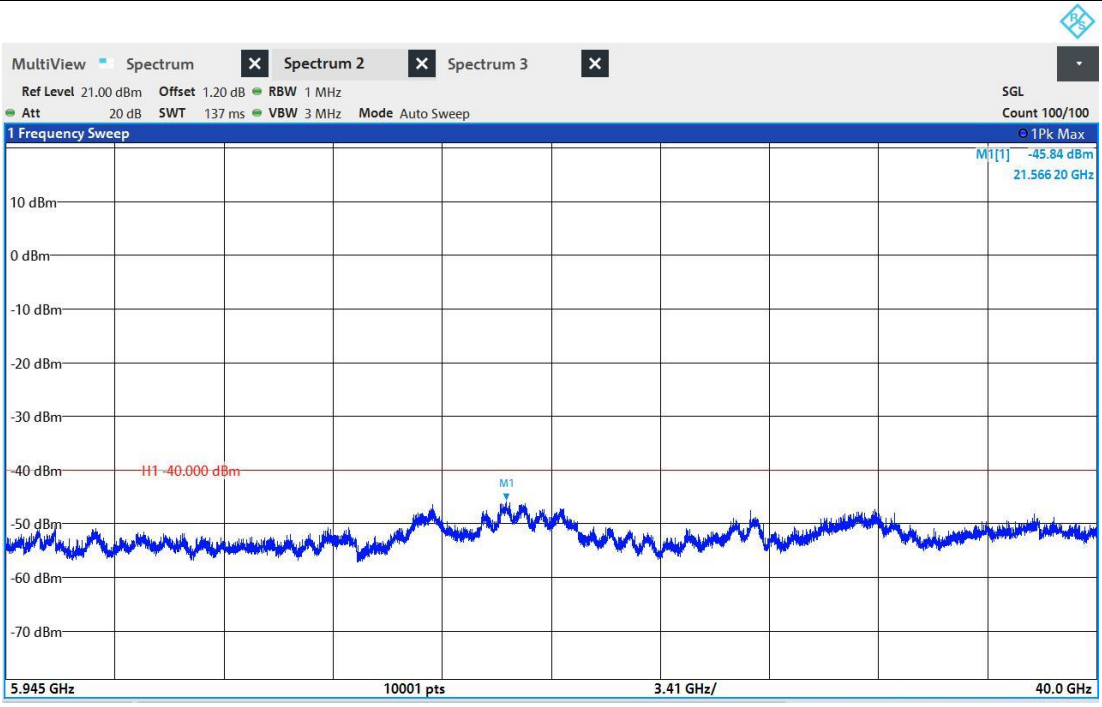



MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 137 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -45.93 dBm
22.139 00 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
5.94 GHz
10001 pts
3.41 GHz/
40.0 GHz

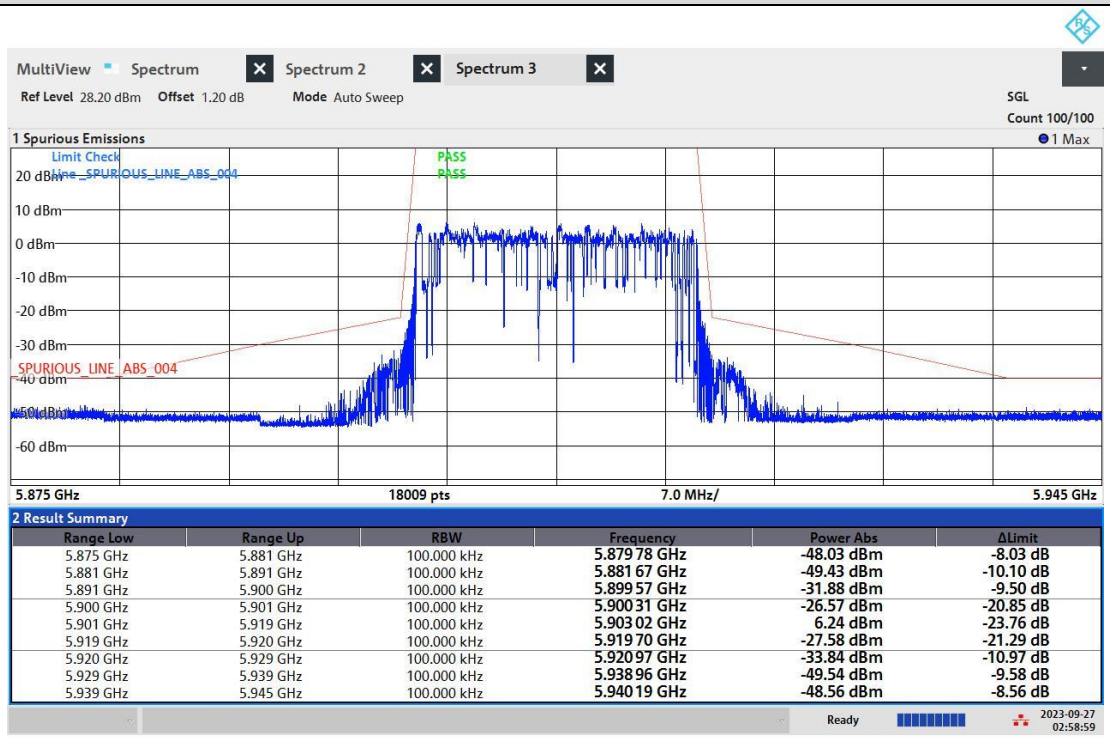
5910-ANT 0


MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 28.20 dBm Offset 1.20 dB Mode Auto Sweep
SGL
Count 100/100
1 Spurious Emissions
1 Max
Limit Check PASS
Line SPURIOUS_LINE_ABS_004 PASS
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
SPURIOUS_LINE_ABS_004
CF 5.91 GHz
18009 pts
7.0 MHz/
Span 70.0 MHz
2 Result Summary
Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit
5.875 GHz | 5.881 GHz | 100.000 kHz | 5.879 78 GHz | -48.03 dBm | -8.03 dB
5.881 GHz | 5.891 GHz | 100.000 kHz | 5.881 67 GHz | -49.43 dBm | -10.10 dB
5.891 GHz | 5.900 GHz | 100.000 kHz | 5.899 57 GHz | -31.88 dBm | -9.50 dB
5.900 GHz | 5.901 GHz | 100.000 kHz | 5.900 31 GHz | -26.57 dBm | -20.85 dB
5.901 GHz | 5.919 GHz | 100.000 kHz | 5.915 58 GHz | 7.05 dBm | -22.95 dB
5.919 GHz | 5.920 GHz | 100.000 kHz | 5.919 70 GHz | -27.58 dBm | -21.29 dB
5.920 GHz | 5.929 GHz | 100.000 kHz | 5.920 39 GHz | -33.05 dBm | -10.70 dB
5.929 GHz | 5.939 GHz | 100.000 kHz | 5.938 96 GHz | -49.54 dBm | -9.58 dB
5.939 GHz | 5.945 GHz | 100.000 kHz | 5.940 19 GHz | -48.56 dBm | -8.56 dB
Ready
2023-09-27
03:09:11
03:09:12 AM 09/27/2023

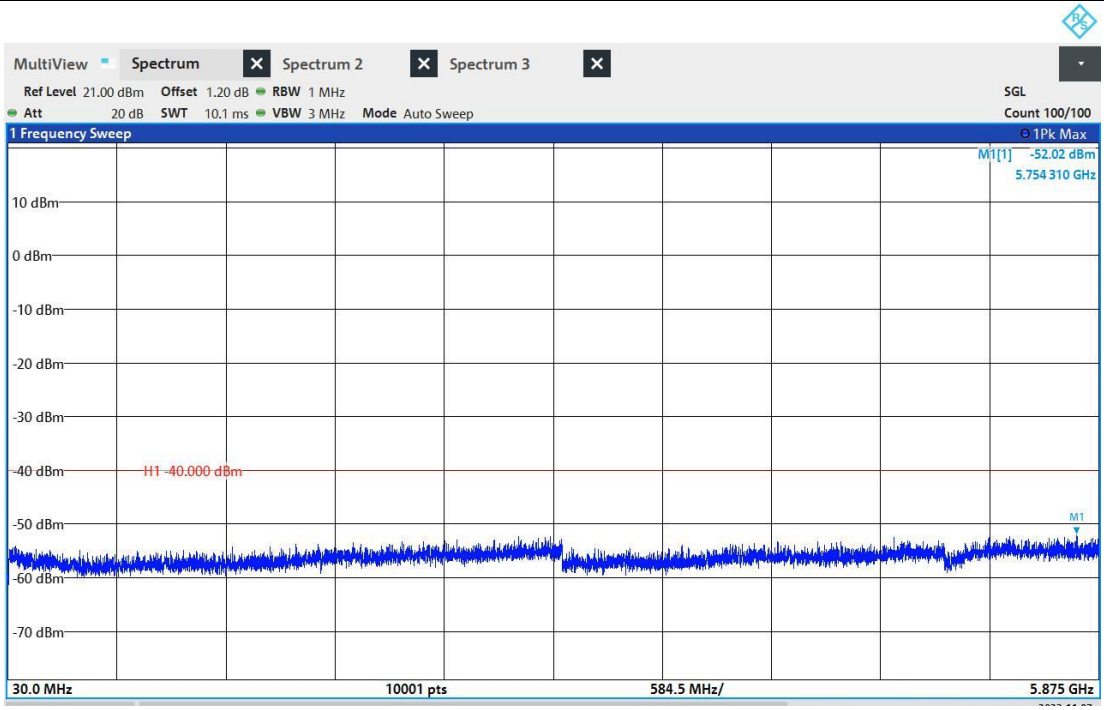

MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -50.98 dBm
5.491 310 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
30.0 MHz
10001 pts
584.5 MHz/
5.875 GHz

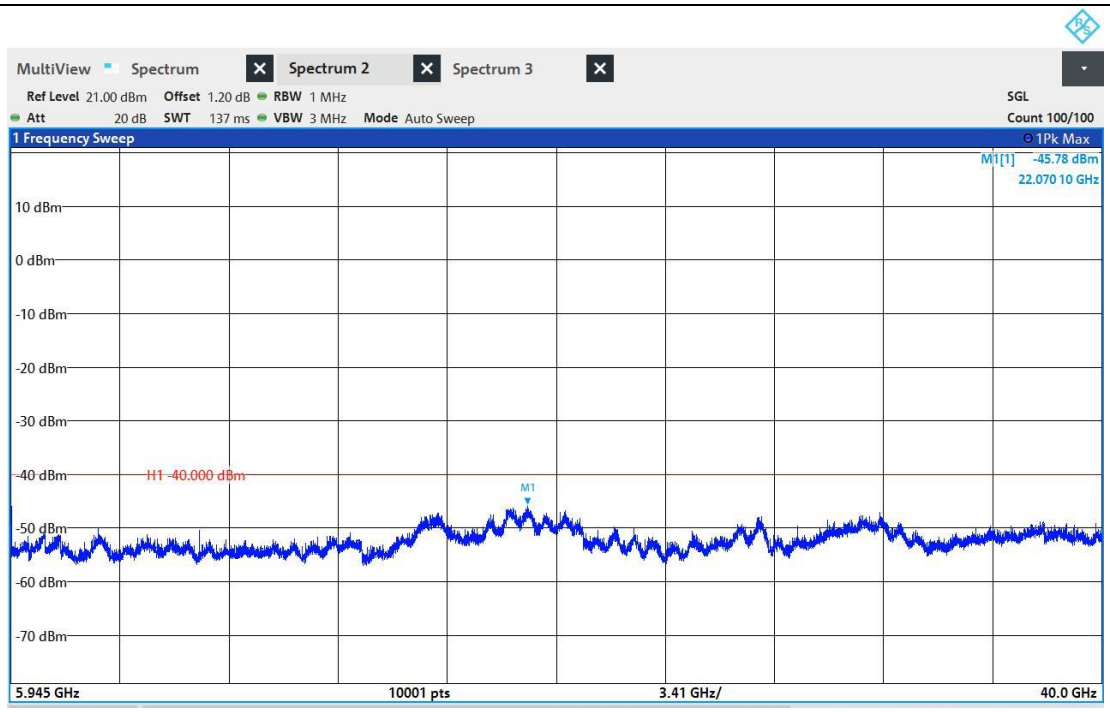

MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 137 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -45.84 dBm
21.566 20 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
5.945 GHz
10001 pts
3.41 GHz/
40.0 GHz

5910-ANT 1

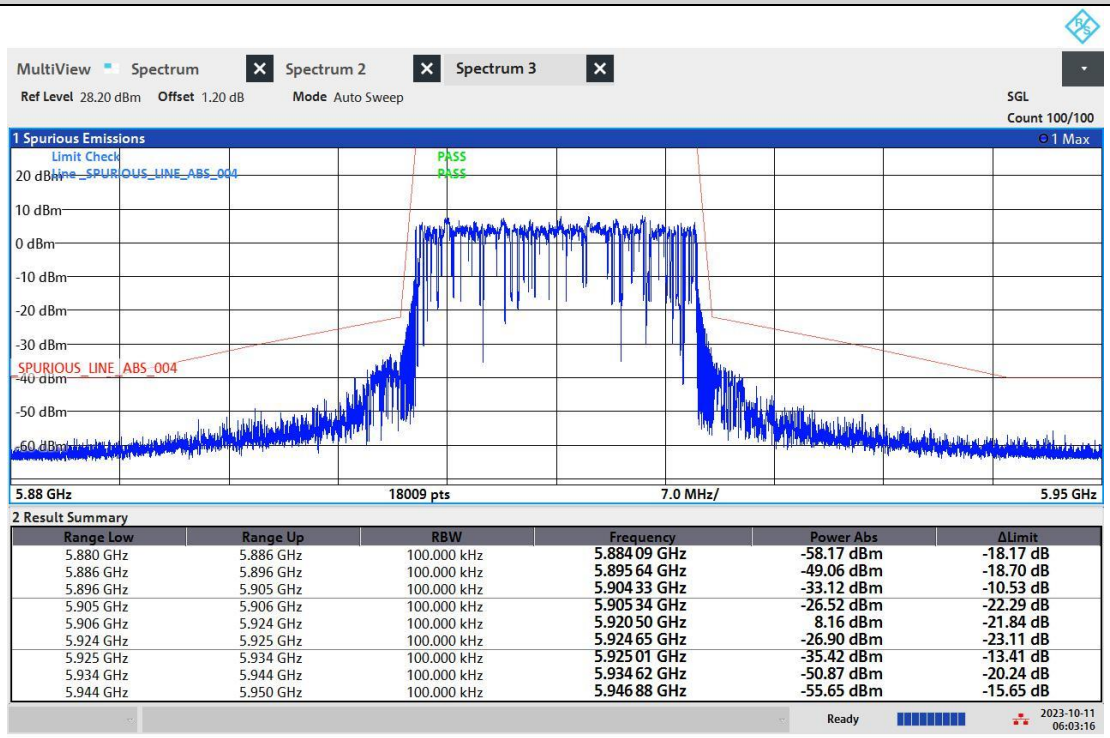


02:59:00 AM 09/27/2023



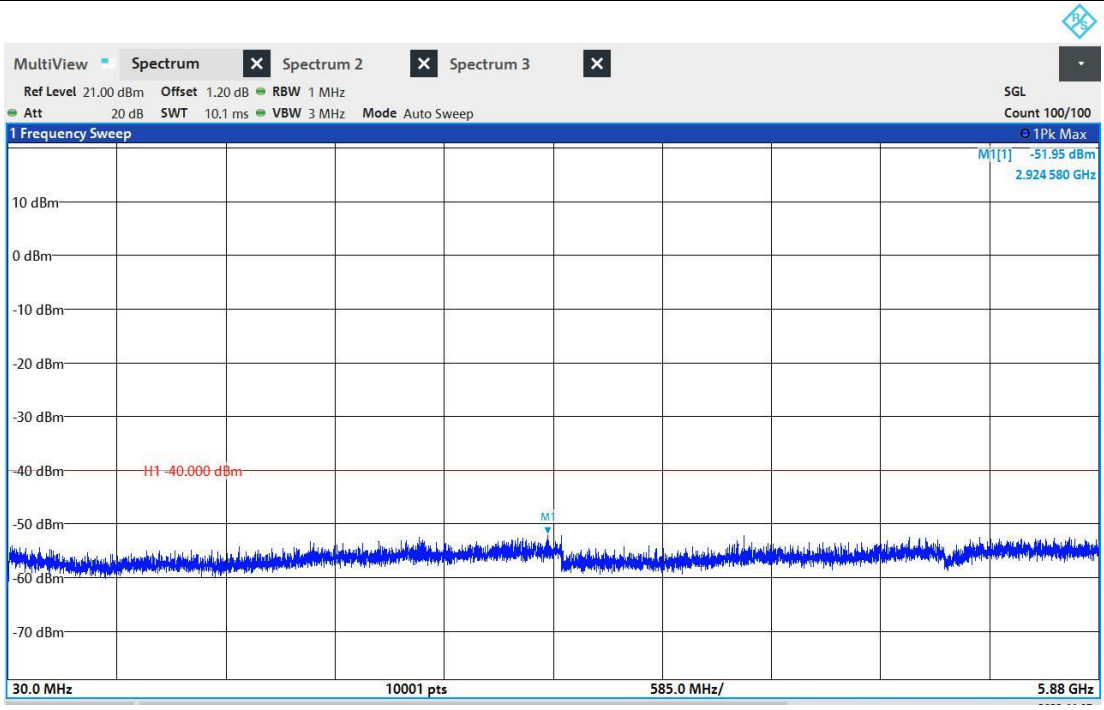


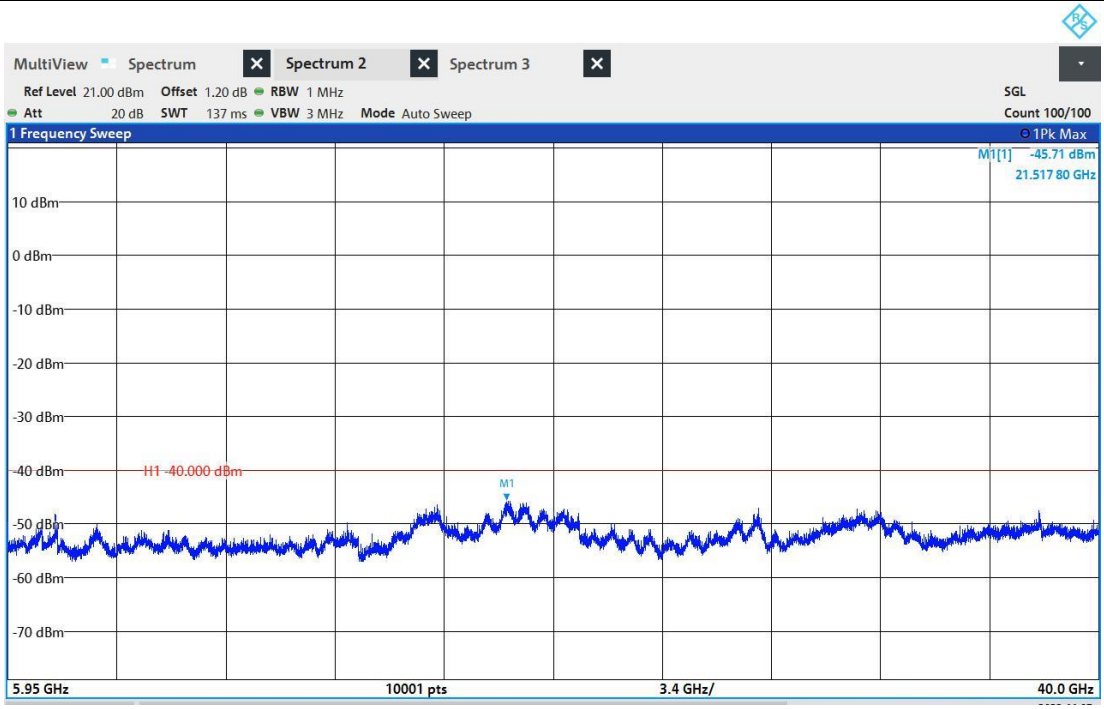
5915-ANT 0



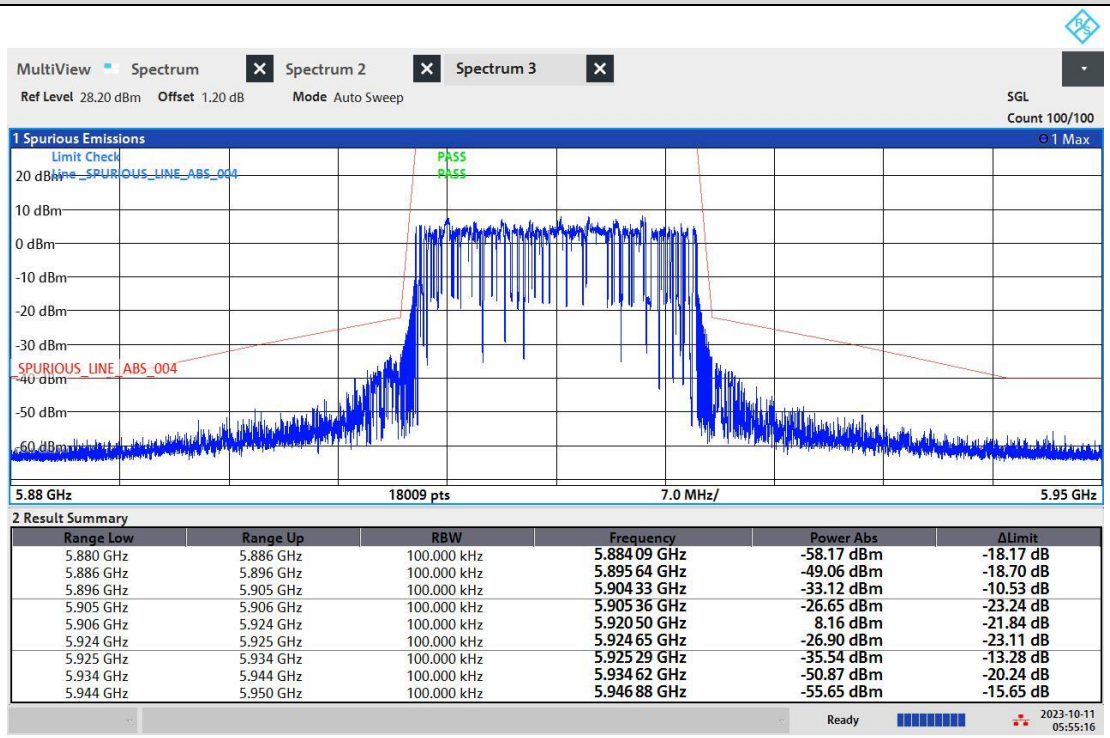
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.880 GHz	5.886 GHz	100.000 kHz	5.884 09 GHz	-58.17 dBm	-18.17 dB
5.886 GHz	5.896 GHz	100.000 kHz	5.895 64 GHz	-49.06 dBm	-18.70 dB
5.896 GHz	5.905 GHz	100.000 kHz	5.904 33 GHz	-33.12 dBm	-10.53 dB
5.905 GHz	5.906 GHz	100.000 kHz	5.905 34 GHz	-26.52 dBm	-22.29 dB
5.906 GHz	5.924 GHz	100.000 kHz	5.920 50 GHz	8.16 dBm	-21.84 dB
5.924 GHz	5.925 GHz	100.000 kHz	5.924 65 GHz	-26.90 dBm	-23.11 dB
5.925 GHz	5.934 GHz	100.000 kHz	5.925 01 GHz	-35.42 dBm	-13.41 dB
5.934 GHz	5.944 GHz	100.000 kHz	5.934 62 GHz	-50.87 dBm	-20.24 dB
5.944 GHz	5.950 GHz	100.000 kHz	5.946 88 GHz	-55.65 dBm	-15.65 dB

06:03:17 AM 10/11/2023

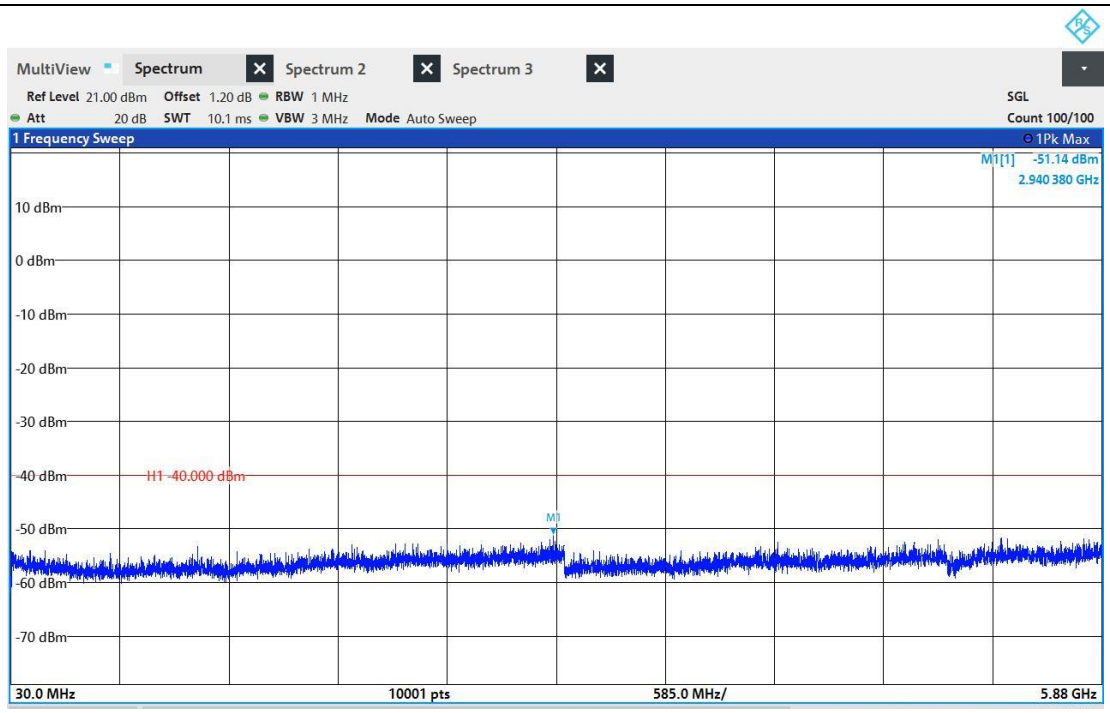

MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -51.95 dBm
2.924 580 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
30.0 MHz
10001 pts
585.0 MHz/
5.88 GHz

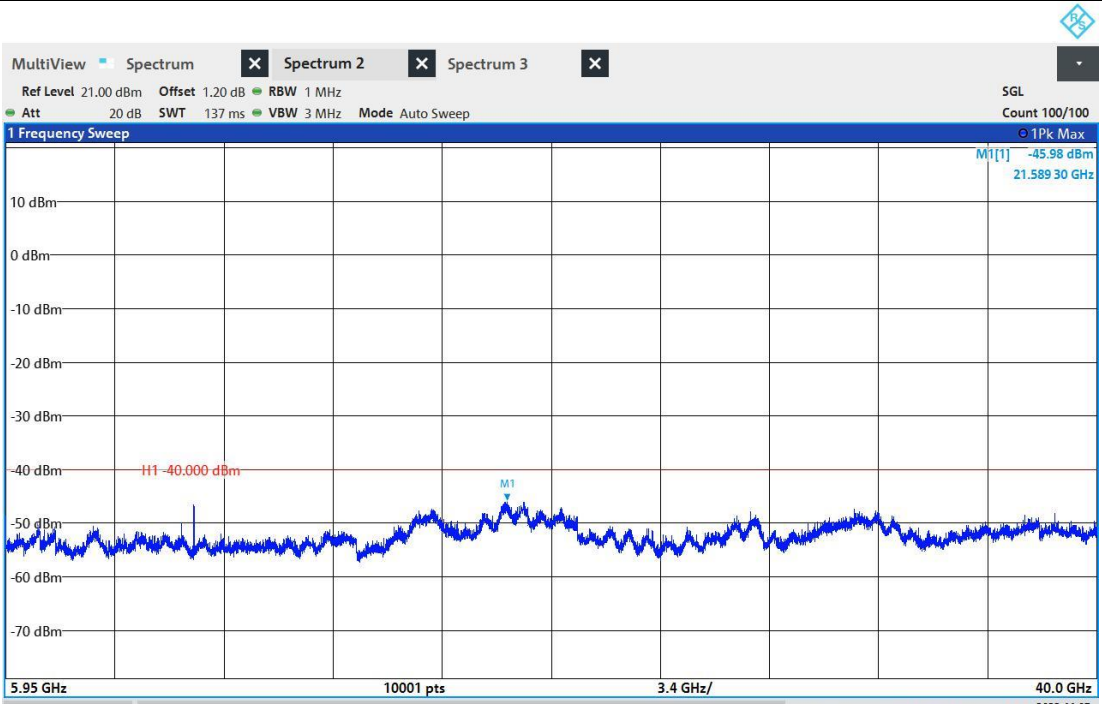

MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm Offset 1.20 dB RBW 1 MHz
Att 20 dB SWT 137 ms VBW 3 MHz Mode Auto Sweep
SGL
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -45.71 dBm
21.517 80 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
5.95 GHz
10001 pts
3.4 GHz/
40.0 GHz

5915-ANT 1



05:55:17 AM 10/11/2023




MultiView
Spectrum
Spectrum 2
Spectrum 3
Ref Level 21.00 dBm
Offset 1.20 dB
RBW 1 MHz
SGL
Att 20 dB
SWT 137 ms
VBW 3 MHz
Mode Auto Sweep
Count 100/100
1 Frequency Sweep
1Pk Max
M1[1] -45.98 dBm
21.589 30 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
H1 -40.000 dBm
M1
5.95 GHz
10001 pts
3.4 GHz/
40.0 GHz

4. CONCLUSION

According to the requirements of KDB Publication 511808 D01, The Lab supplemented the C-V2X test. This RSU device applies for C-V2X waivers is FCC compliant.

--END--