

TEST REPORT

Applicant Name : Xiamen Longstar Lighting Co., Ltd
Address : 5 Houbin Road, XiangAn, Xiamen, China 361101
Report Number : SZNS220507-18204E-RF-00
FCC ID: 2A7EACS-MRD58K-LSD1

Test Standard (s)

FCC PART 15.249

Sample Description

Product Type: Module
Model No.: CS-MRD58K-LSD1
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2022/05/07
Report Date: 2022/08/22

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:



Nick Fang
EMC Engineer

Approved By:



Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5728-5873MHz
Modulation Type	CW
Maximum E-field strength	80.92dBuV/m@3m
Antenna Specification*	1.62dBi (provided by the applicant)
Voltage Range	DC 8-12V
Sample serial number	SZNS220507-18204E-RF-S1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Emissions, Radiated	30MHz - 1GHz	4.28dB
	1GHz- 18GHz	4.98dB
	18GHz- 26.5GHz	5.06dB
	26.5GHz- 40GHz	4.72dB
Temperature		1℃
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing by manufacturer.

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5728	2	5800
3	5873	/	/

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modifications were made to the unit tested.

Support Equipment List and Details

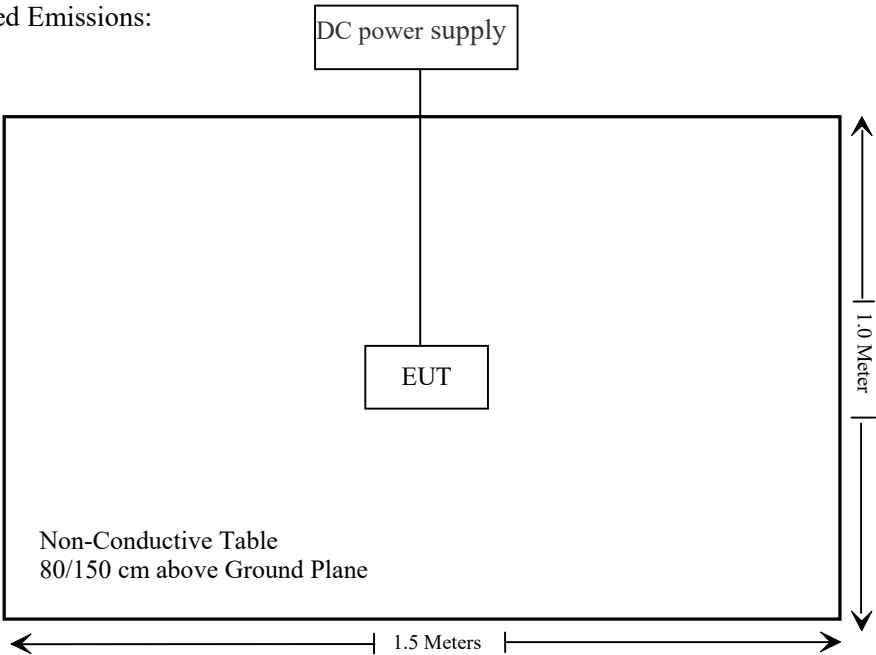
Manufacturer	Description	Model	Serial Number
Unknown	DC power supply	Unknown	Unknown

Support Cable Descriptions

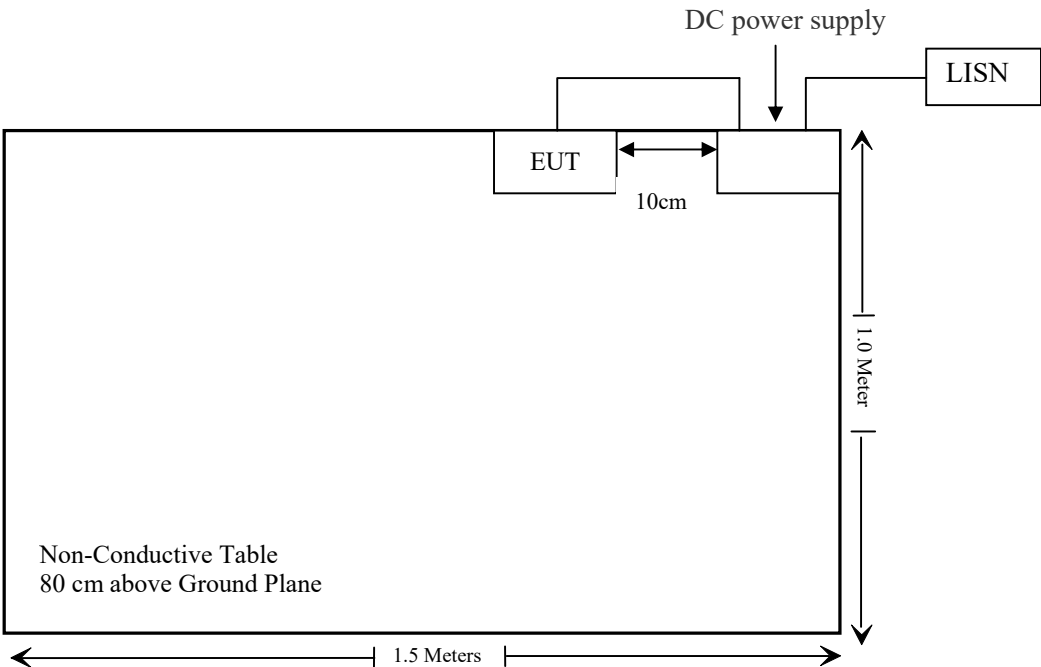
Cable Description	Length (m)	From/Port	To
Un-shielding Detachable DC Cable *2	1.8	DC power supply	EUT

Block Diagram of Test Setup

For Radiated Emissions:



For Conducted Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) (3) & §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
15.205, §15.209, §15.249(d)	Radiated Emissions& Outside of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ESH3-Z5	100305	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.18	N0850	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.725/5.875G-45	065	2021/12/14	2022/12/13
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
HP	20dB Attenuator	8491A	53857	2021/12/14	2022/12/13

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

§1.1307 (b) (3) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

For worst case:

Frequency (MHz)	Maximum Tune-up EIRP power		Exemption Limit (mW)	SAR Test Exclusion
	(dBm)	(mW)		
5728-5873	-14	0.040	1	Yes

Note: EIRP [dBm] = E [dBμV/m] - 95.2, for d = 3 meters.

EIRP = 80.92[dBμV/m]-95.2 = -14.28dBm, So the maximum tune up EIRP = -14dBm

Result: Compliant.

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has one PCB Antenna which was permanently attached and the antenna gain is 1.62dBi, fulfill the requirement of this section. Please refer to the EUT photos.

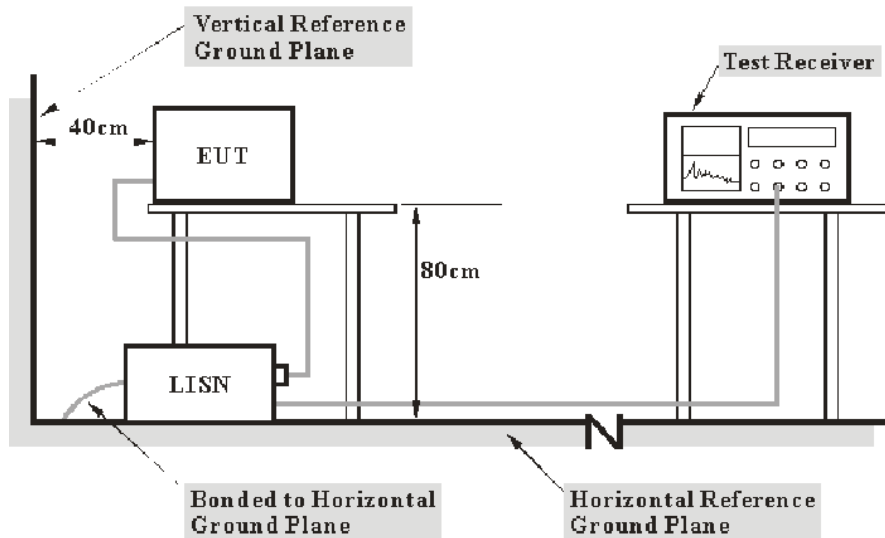
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Transd Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{reading level} + \text{Transd Factor}$$

Test Data

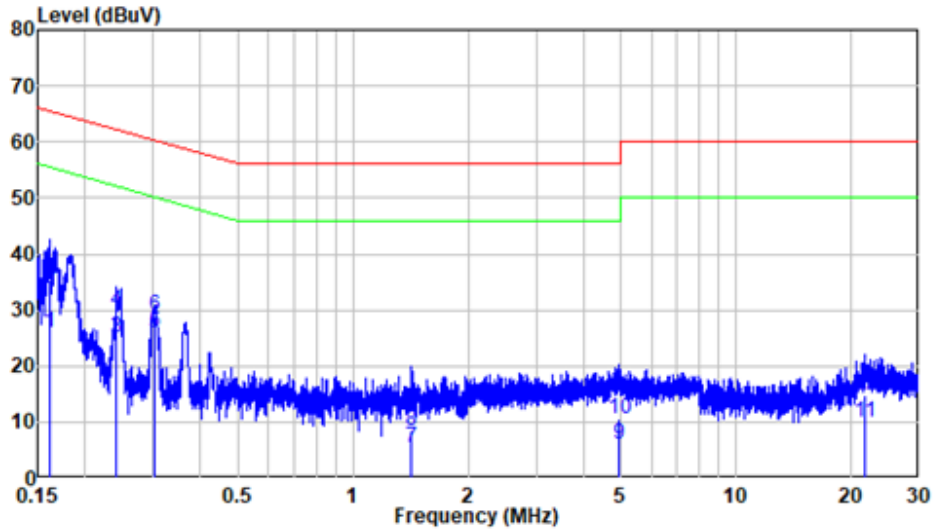
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	41 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason on 2022-07-29

EUT operation mode: Transmitting (worst case is low channel)

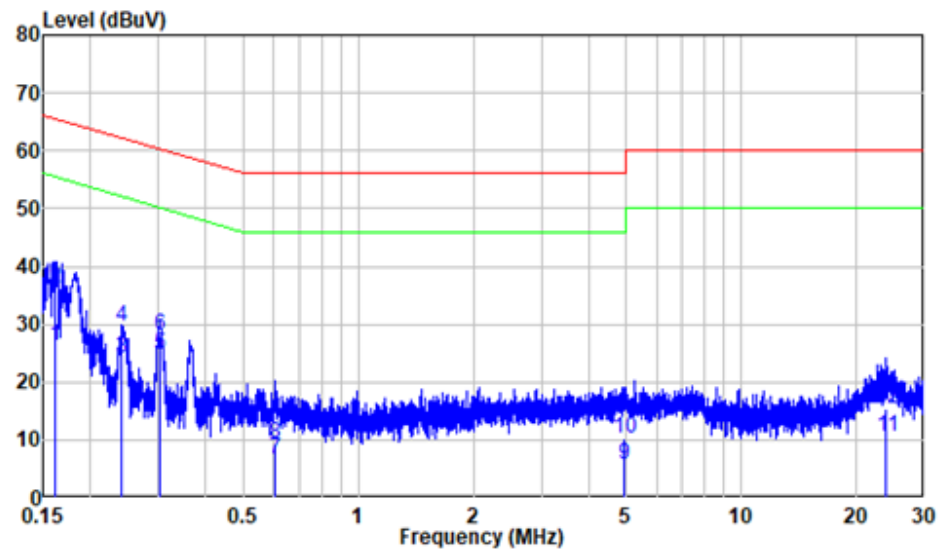
AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Mode : TX
Model : CS-MRD58K-LSD1
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.161	9.80	16.06	25.86	55.40	-29.54	Average
2	0.161	9.80	25.56	35.36	65.40	-30.04	QP
3	0.241	9.80	15.34	25.14	52.07	-26.93	Average
4	0.241	9.80	20.15	29.95	62.07	-32.12	QP
5	0.303	9.80	16.19	25.99	50.15	-24.16	Average
6	0.303	9.80	19.27	29.07	60.15	-31.08	QP
7	1.424	9.81	-4.24	5.57	46.00	-40.43	Average
8	1.424	9.81	-1.44	8.37	56.00	-47.63	QP
9	4.919	9.85	-3.78	6.07	46.00	-39.93	Average
10	4.919	9.85	0.61	10.46	56.00	-45.54	QP
11	21.643	10.02	-0.09	9.93	50.00	-40.07	Average
12	21.643	10.02	4.76	14.78	60.00	-45.22	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room
 Condition: Neutral
 Mode : TX
 Model : CS-MRD58K-LSD1
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.162	9.80	16.53	26.33	55.36	-29.03	Average
2	0.162	9.80	26.36	36.16	65.36	-29.20	QP
3	0.241	9.80	14.31	24.11	52.04	-27.93	Average
4	0.241	9.80	19.70	29.50	62.04	-32.54	QP
5	0.304	9.80	14.96	24.76	50.14	-25.38	Average
6	0.304	9.80	18.27	28.07	60.14	-32.07	QP
7	0.603	9.81	-3.17	6.64	46.00	-39.36	Average
8	0.603	9.81	-0.39	9.42	56.00	-46.58	QP
9	4.952	9.89	-4.09	5.80	46.00	-40.20	Average
10	4.952	9.89	0.44	10.33	56.00	-45.67	QP
11	23.935	10.14	0.52	10.66	50.00	-39.34	Average
12	23.935	10.14	5.30	15.44	60.00	-44.56	QP

FCC§15.205, §15.209 & §15.249(d) - RADIATED EMISSIONS**Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Equipment Setup

The spectrum analyzer or receiver is set as:

Below 1000MHz:

RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

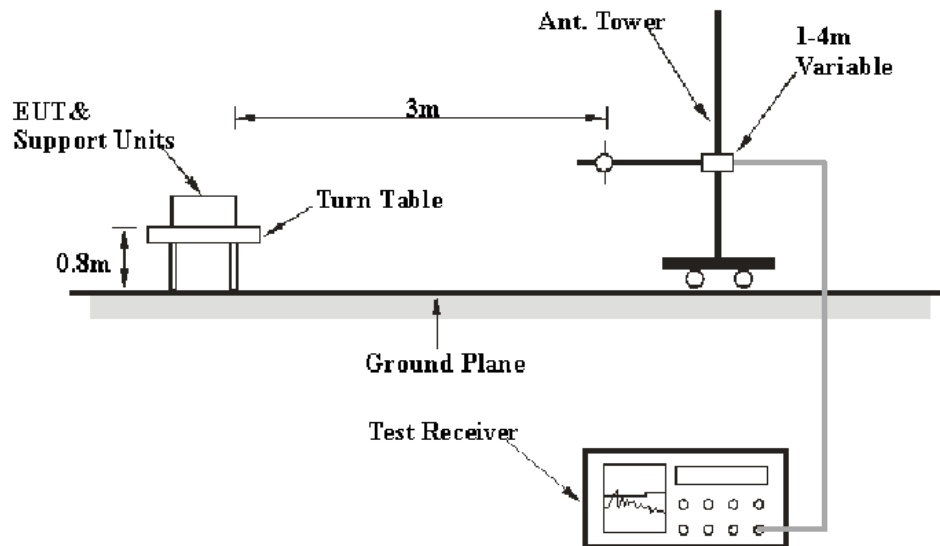
Above 1000MHz:

Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto

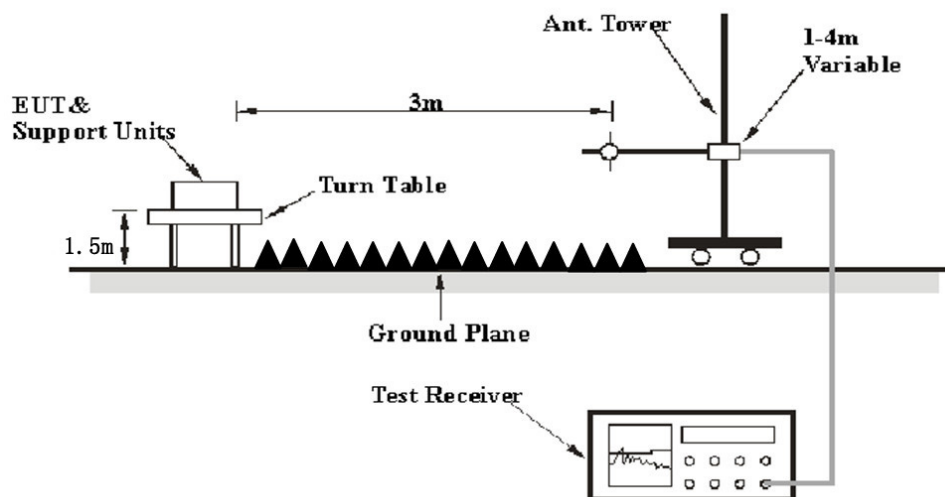
Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Over Limit/Margin} = \text{Level} / \text{Corrected Amplitude} - \text{Limit}$$

Test Results Summary

According to the EUT complied with the FCC Part 15.205, 15.209 & §15.249

Test Data

Environmental Conditions

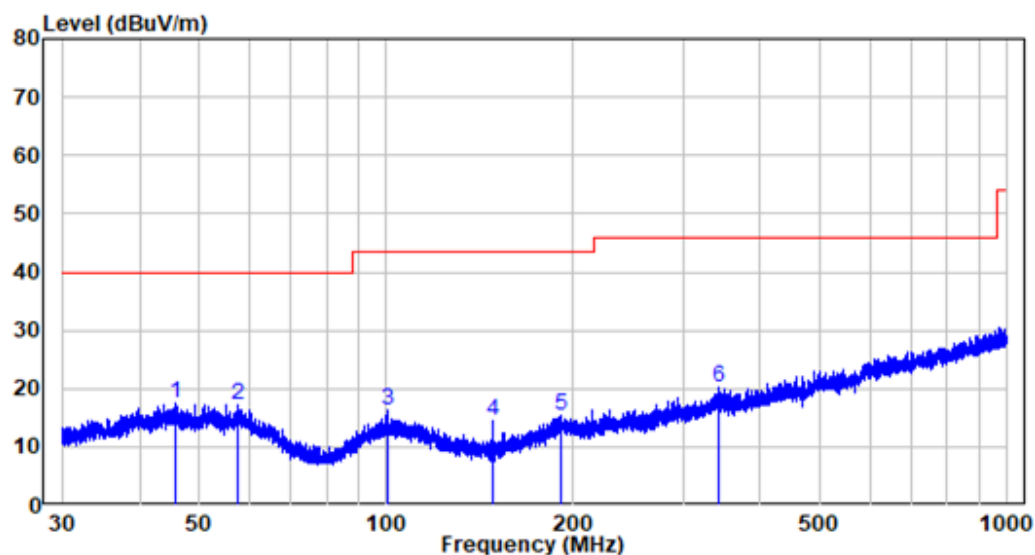
Temperature:	25~28.4 °C
Relative Humidity:	45~62 %
ATM Pressure:	101.0 kPa

The testing was performed by Level on 2022-07-14 for below 1GHz, Zeki Ma on 2022-07-01 for above 1GHz

EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30MHz-1GHz: (worst case is low channel)

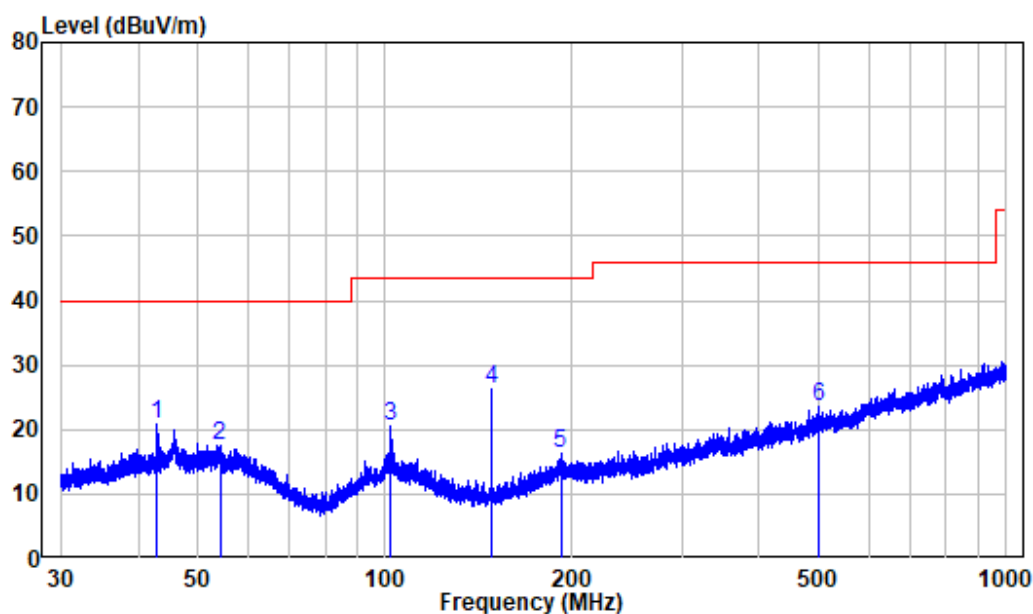
Note: When the test result of Peak was less than the limit of QP, just the peak value was recorded.

Horizontal

Site : chamber
Condition: 3m HORIZONTAL
Job No. : SZNS220507-18204E-RF
Test Mode: Transmitting

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	45.675	-9.97	27.37	17.40	40.00	-22.60	Peak
2	57.543	-9.97	27.24	17.27	40.00	-22.73	Peak
3	100.405	-11.75	28.04	16.29	43.50	-27.21	Peak
4	148.376	-15.36	29.97	14.61	43.50	-28.89	Peak
5	190.656	-11.47	26.83	15.36	43.50	-28.14	Peak
6	343.030	-7.30	27.48	20.18	46.00	-25.82	Peak

Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : SZNS220507-18204E-RF

Test Mode: Transmitting

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.956	-9.96	30.83	20.87	40.00	-19.13	Peak
2	54.166	-10.34	27.84	17.50	40.00	-22.50	Peak
3	101.867	-11.58	31.99	20.41	43.50	-23.09	Peak
4	148.311	-15.36	41.48	26.12	43.50	-17.38	Peak
5	191.661	-11.30	27.51	16.21	43.50	-27.29	Peak
6	498.550	-4.32	27.85	23.53	46.00	-22.47	Peak

1-40 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
Low Channel(5728MHz)									
5728	78	PK	355	1.2	H	-1.94	76.06	94	-17.94
5728	78.57	PK	355	1.2	V	-1.94	76.63	94	-17.37
5725	71.08	PK	59	2.1	H	-1.96	69.12	74	-4.88
5725	50.64	AV	59	2.1	H	-1.96	48.68	54	-5.32
5725	71.19	PK	289	1.6	V	-1.96	69.23	74	-4.77
5725	50.61	AV	289	1.6	V	-1.96	48.65	54	-5.35
11456	47.85	PK	100	1.7	H	6.75	54.60	74	-19.40
11456	43.01	AV	100	1.7	H	6.75	49.76	54	-4.24
11456	49.27	PK	58	1.8	V	6.75	56.02	74	-17.98
11456	46.11	AV	58	1.8	V	6.75	52.86	54	-1.14
Middle Channel(5800MHz)									
5800	78.45	PK	245	2.2	H	-1.82	76.63	94	-17.37
5800	76.08	PK	245	2.2	V	-1.82	74.26	94	-19.74
11600	48.48	PK	159	1.4	H	6.59	55.07	74	-18.93
11600	44	PK	159	1.4	V	6.59	50.59	54	-3.41
11600	48.81	PK	326	1.7	H	6.59	55.40	74	-18.60
11600	44.11	PK	326	1.7	V	6.59	50.70	54	-3.30
High Channel(5873 MHz)									
5873	82.74	PK	63	1.1	H	-1.82	80.92	94	-13.08
5873	78.02	PK	63	1.1	V	-1.82	76.20	94	-17.80
5875	72.03	PK	88	1.5	H	-1.84	70.19	74	-3.81
5875	51.87	AV	88	1.5	H	-1.84	50.03	54	-3.97
5875	71.87	PK	65	2	V	-1.84	70.03	74	-3.97
5875	51.38	AV	65	2	V	-1.84	49.54	54	-4.46
11746	50.09	PK	39	1.4	H	6.75	56.84	74	-17.16
11746	45.69	AV	39	1.4	H	6.75	52.44	54	-1.56
11746	47.92	PK	185	1.7	V	6.75	54.67	74	-19.33
11746	43.66	PK	185	1.7	V	6.75	50.41	54	-3.59

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

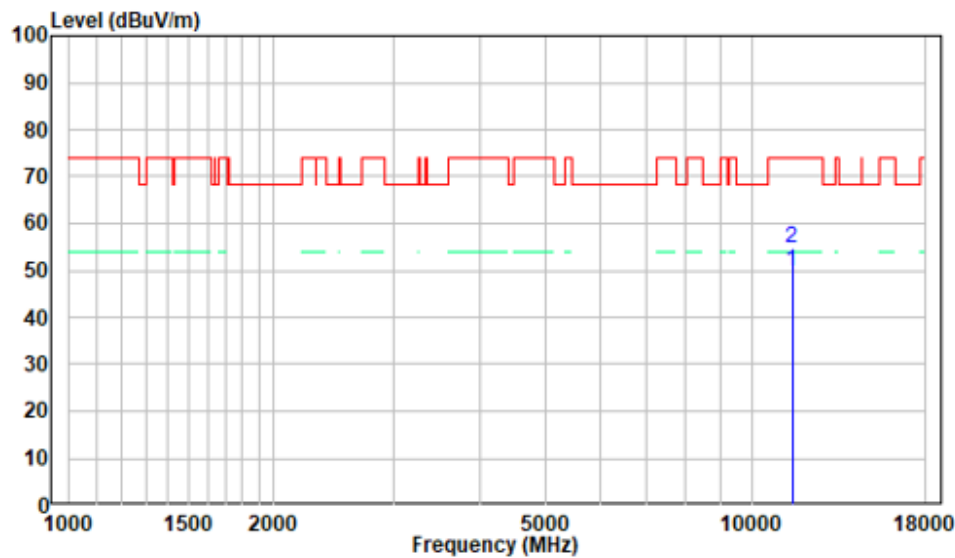
Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

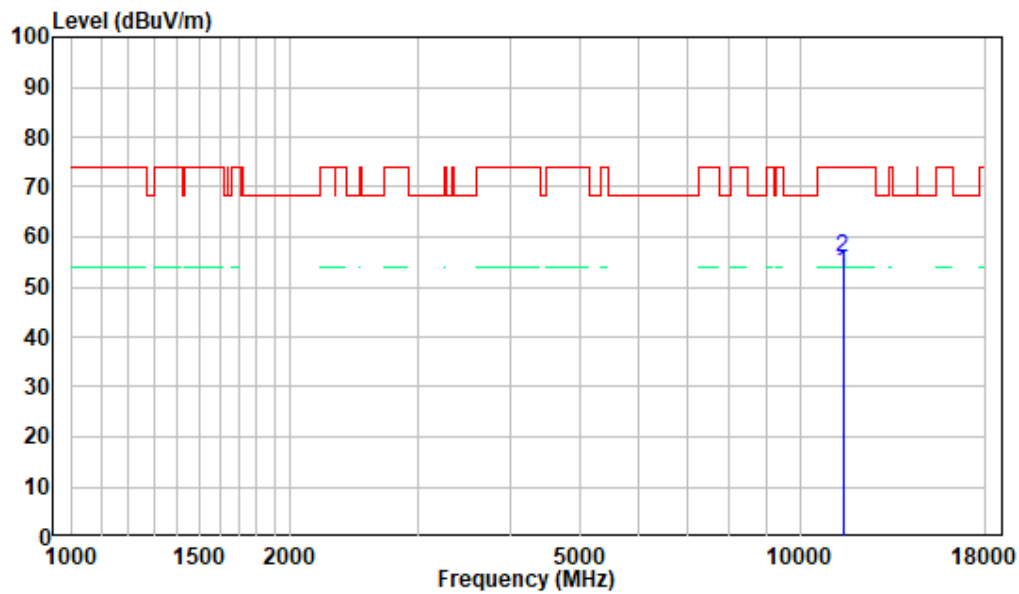
The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.

The test result of Peak was less than the limit of average, just the Peak value was recorded.

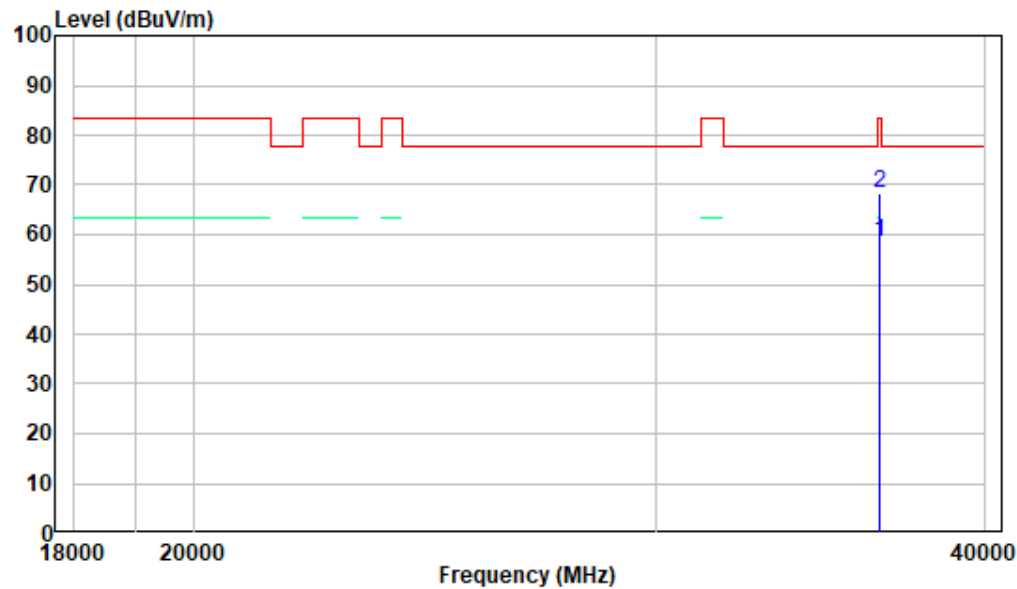
**Pre-scan with Low channel
1-18GHz
Horizontal**



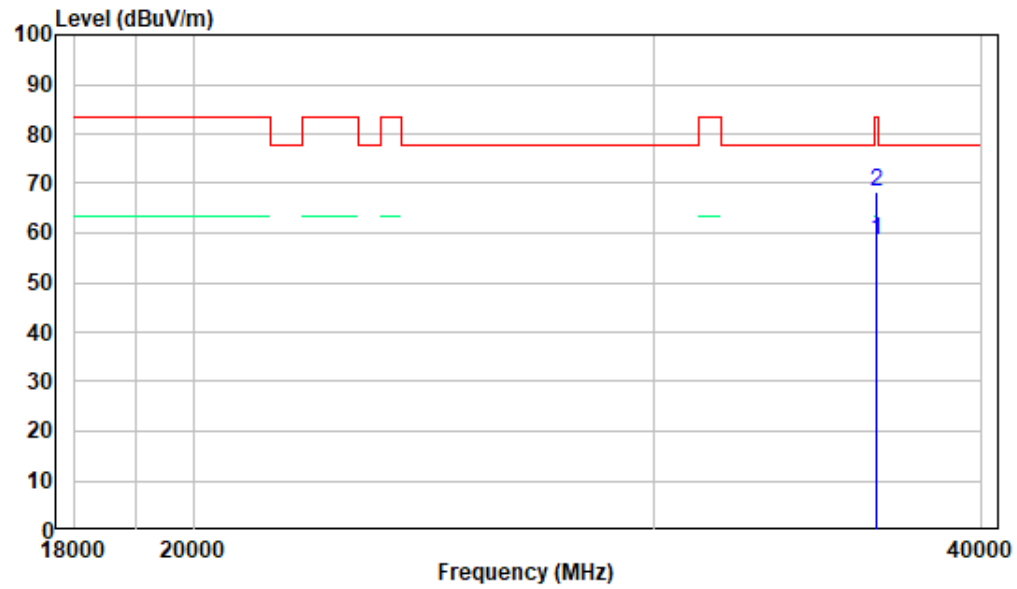
Vertical



18-40GHz
Horizontal



Vertical



FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that indicated 20dB bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	28.4℃
Relative Humidity:	45 %
ATM Pressure:	101.0 kPa

The testing was performed by Zeki Ma on 2022-08-22.

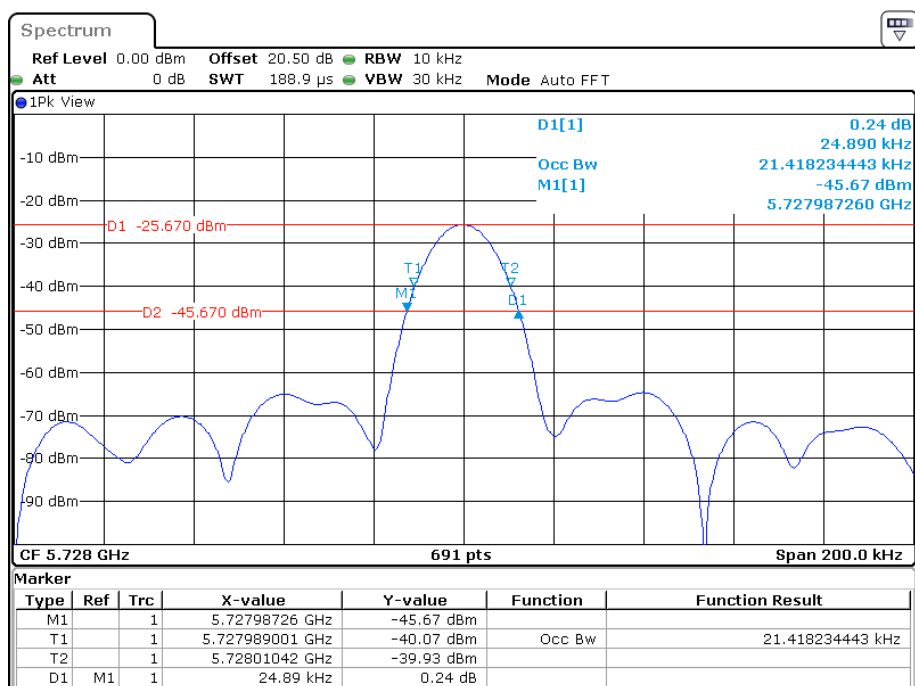
EUT operation mode: Transmitting

Please refer to the following table and plots.

Channel	Frequency (MHz)	20dB Bandwidth (kHz)
Low	5728	24.89
Middle	5800	24.89
High	5873	24.60

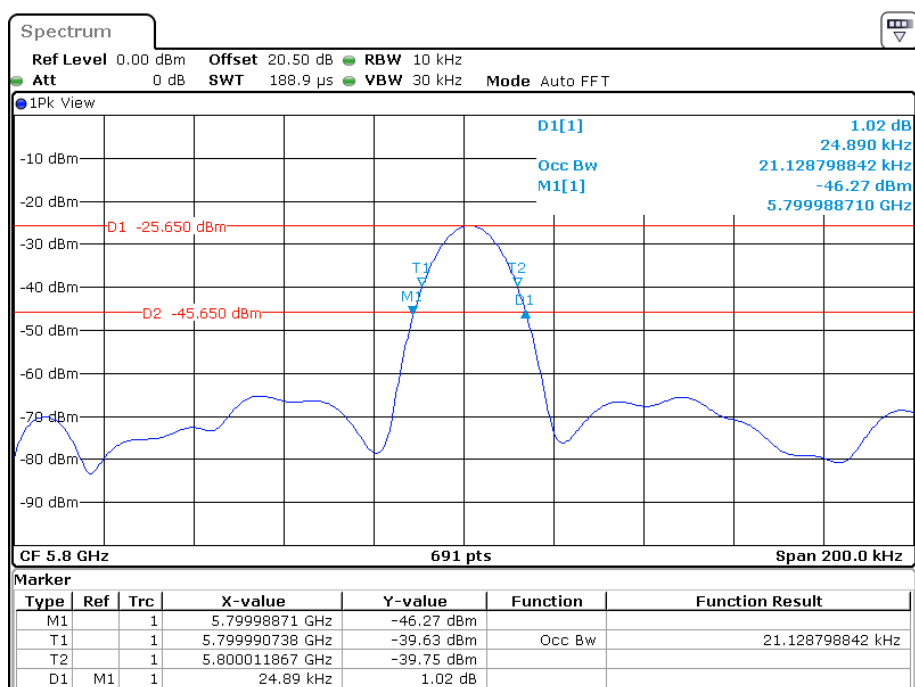
Note: Test performed with conducted test.

Low Channel



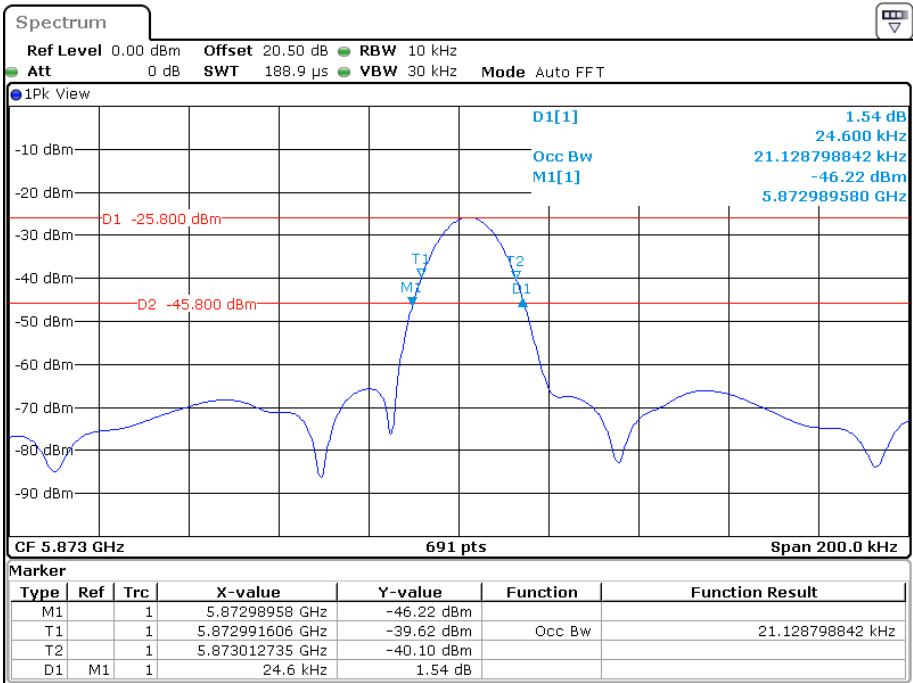
Date: 22.AUG.2022 11:09:50

Middle Channel



Date: 22.AUG.2022 11:08:20

High Channel



Date: 22.AUG.2022 11:11:40

***** END OF REPORT *****