

Prüfbericht-Nr.: <i>Test report no.:</i>	ULR-TC568821300000125F	Auftrags-Nr.: <i>Order no.:</i>	166480691 0010	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2288873	Auftragsdatum: <i>Order date:</i>	09.09.2020	
Auftraggeber: <i>Client:</i>	TessolveDTS Inc 226 Airport Parkway Suite 100, Sanjose, CALIFORNIA, U.S.A, 95110			
Prüfgegenstand: <i>Test item:</i>	10.1" LVDS PLATO 2.0 DISPLAY			
Bezeichnung <i>Identification</i>	C0000003DVT1	Serien -Nr.: / C0000003DVT1T1AL0001 <i>Serial no.:/</i>		
Auftrags-Inhalt: <i>Order content:</i>	Testing and Issue of Test Report with Grant Certificate			
Prüfgrundlage: <i>Test specification:</i>	FCC Part15 subpartC -15.225,15.209 & 15.205			
Wareneingangsdatum: <i>Date of sample receipt:</i>	10.12.2021			
Prüfmuster-Nr.: <i>Test sample no:</i>	A003181490-006			
Prüfzeitraum: <i>Testing period:</i>	10.12.2021 - 28.12.2021			
Ort der Prüfung: <i>Place of testing:</i>	Wireless laboratory, Bangalore			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd. 27/B, 2nd Cross, Electronic City , Phase 1 Bangalore – 560 100,Karnataka			
Prüfergebnis*: <i>Test result*:</i>	Pass			
Datum: <i>Date:</i>	10.05.2022	Ausstellatum: <i>Issue date:</i>	15.09.2022	
Stellung / Position:	M.V.Naveen Kumar Engineer	Stellung / Position:	Madhu K.N Senior Engineer	
Sonstiges / Other:	FCC ID: 2A6PTC0000003			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

Test Item	FCC Clause	Test results	Remarks
Occupied Channel bandwidth	FCC Part 15 Subpart C Section 15.215 (c)	Pass	-
Frequency tolerance	FCC part 15 Subpart C Section 15.225 (e)	Pass	-
Field Strength Measurement within the band 13.110-14.010 MHz	FCC part 15 Subpart C Section 15.225 (a,b,c,d) / (15.209)	Pass	-
Radiated spurious emissions	FCC 15.209/15.205	Pass	-
Conducted Spurious emission Test on AC Power lines	FCC 15.207	N/T	Test was performed in different lab, please refer the Clause 4.6 Report Reference
Antenna requirement	FCC 15.203	Pass	-

N/T: Not Tested

Discipline: Electronics Testing

Group: EMC Test Facility

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
ULR-TC568821300000125F	01	Initial Issue of Test Report	15.09.2022

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1 GENERAL REMARKS

1.1 Complimentary Materials

All attachments are integral part of this test report. This applies especially to the following items.

1. TEST SETUP PHOTOS
2. EUT EXTERNAL PHOTOS
3. EUT INTERNAL PHOTOS
4. FCC LABEL AND LABEL LOCATION
5. BLOCK DIAGRAM
6. SPECIFICATION OF EUT
7. SCHEMATIC DIAGRAM
8. BILL OF MATERIAL
9. USER MANUAL
10. MAXIMUM PERMISSIBLE EXPOSURE

2 TEST SITES

2.1 Testing Facilities

TUV Rheinland (India) Private Limited
27/B, 2nd Cross Road,
Electronic City Phase 1,
Bangalore – 560 100.
India

TUV Rheinland (India) Private Limited
108 , Beside ISBR Business School,
Electronic city Phase I,
Bangalore - 560 100.

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESW 44	101773	1.72SP1	27.01.2022	Yearly	Radiated Spurious Emission
Loop Antenna	Schwarzbeck	FMZB 1519 B	1519B-00111	-	27.04.2022	Yearly	
Biconical Antenna	Schwarzbeck	VHBB-9124 + BBA-9106	9124-1208+9106-0525	-	03.05.2022	Yearly	
Log-Periodic Antenna	Schwarzbeck	VULP 9118 A	VULP9118A-0733	-	05.05.2022	Yearly	
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-0904	-	06.05.2022	Yearly	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	
Signal Analyser	Rohde & Schwarz	FSV7	101644	FW 3.40	15.01.2022	Yearly	Antenna – Port Conducted Test (TS8997) system
OSP	Rohde & Schwarz	OSP120 Incl. B157	OSP120-101323 & B157-100894	FW 1.27.0.0	17.12.2022	Yearly	
Signal Generator	Rohde & Schwarz	SMB100A	108788	FW 3.01.203.32	13.01.2022	Yearly	
Vector Signal Generator	Rohde & Schwarz	SMBV100	260789	FW 4.15.125.49	13.01.2022	Yearly	
Environmental Chamber	Envisys	EM80-40H	ET/022/14-15	-	26.07.2022	Yearly	-

Table 2: Instrument application Software versions

Sl. No	Test Type	Application software	Version
1	Radiated spurious emission measurement- 10 meter Semi Anechoic Chamber	EMC 32	10.60.00

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

Product is an Android display integrated to a robot to serve food in restaurants is the end product use case.

3.2 Ratings and System Details of Equipment Under Test

Table 3: Ratings and System Details as declared by the client*

Radio Protocol	NFC
Operating Frequency Range	13.110MHz to 14.010MHz
No. of Channels	Single
Supporting Data Rates	26.48 kbit/s
Maximum Measured field strength (Radiated)	55.140 dBμV/m
Modulation	ASK
Number of antennas	One
Antenna Gain	NA
Antenna Type	Spiral loop antenna
Supply Voltage to Product	24VDC through DC Power supply
Environmental conditions	Storage temp "20°C to 70°C"
	Operating temp "5 to 40 °C"
EUT Dimension (H x W x L) mm	275.4mm x 205.5mm (Product outer dimensions)

***Disclaimer:**

The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

3.3 Measurement Uncertainty:

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 4: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 3 \text{ }^{\circ}\text{C}$
Supply Voltages	$\pm 3 \%$
Time	$\pm 5 \%$

Note: The Listed Measurement Uncertainties are the worst-case uncertainty, for the respective test cases. Above Table is for reporting purpose only and not used in determining Final Pass/Fail verdict.

3.4 TUV Test sample identification details.

A003181490-006 Conducted & Radiated Sample

4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on 13.56 MHz channel.

4.2 Operation and Software of the EUT

Hardware Version	:	V3.0
Software name	:	Flash-inforce-sdm845-lp8866
Software Version	:	V2.0
Hardware Name	:	Plato Screen

4.3 Test modes – data rates and modulations

- None

4.4 Special Accessories and Auxiliary Equipment

- None.

4.5 Countermeasures to achieve EMC Compliance

- None

4.6 Report Reference

Test Lab	Test Cases Covered	Report Number
TÜV Theinland (India) Pvt. Ltd	1. Occupied Channel Bandwidth 2. Frequency tolerance 3. Field Strength measurement within the band 13.110MHz to 14.010MHz 4. Spurious radiated emissions	ULR-TC568821300000125F
BUREAU VERITAS LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES	1. Conducted disturbance on the AC main power	13316294-775172

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5 Operational Description

Product is an Android display integrated to an autonomous service robot, dedicated to transport objects in commercial or industrial environments.

6 TEST METHODOLOGY

6.1 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Baloon and Biconical Antenna, and measurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

Note: Measured Emissions (dBμV/m) = Received Emissions(dBμV) + Antenna Factor(dB)+ Cable Loss(dB) – Pre-amplifier Gain(dBi)

6.1.1 Test Setup Configuration

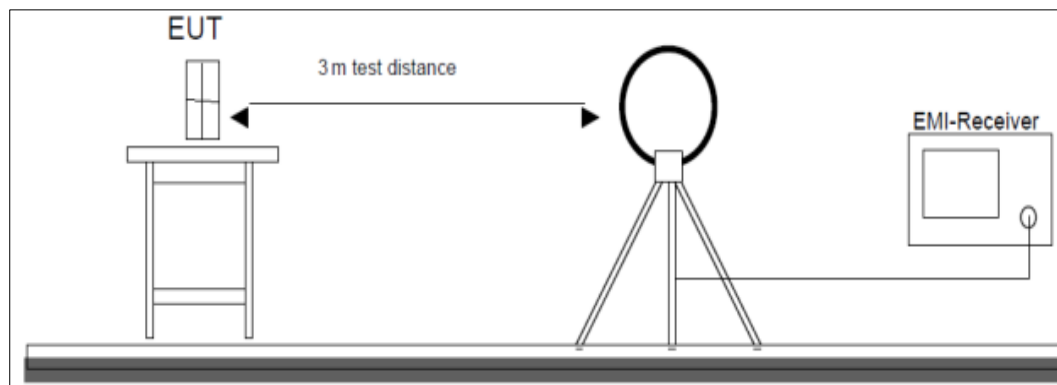


Figure 1: Frequency Range 9 kHz- 30 MHz

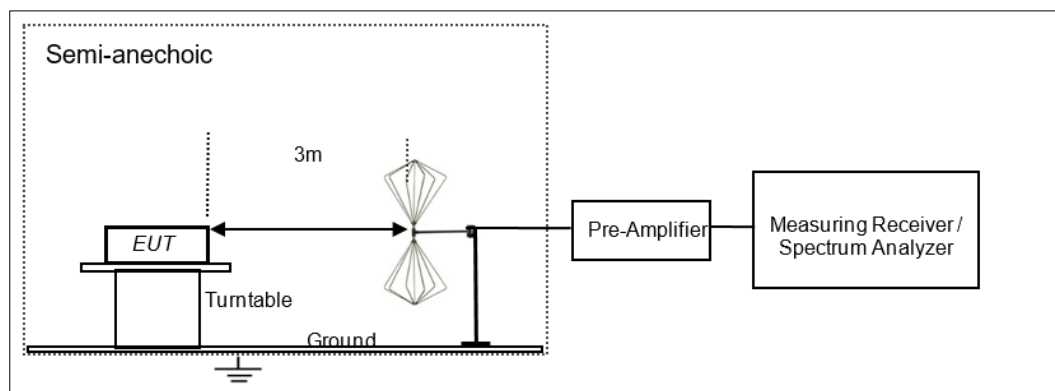


Figure 2: Frequency Range 30 MHz – 200 MHz

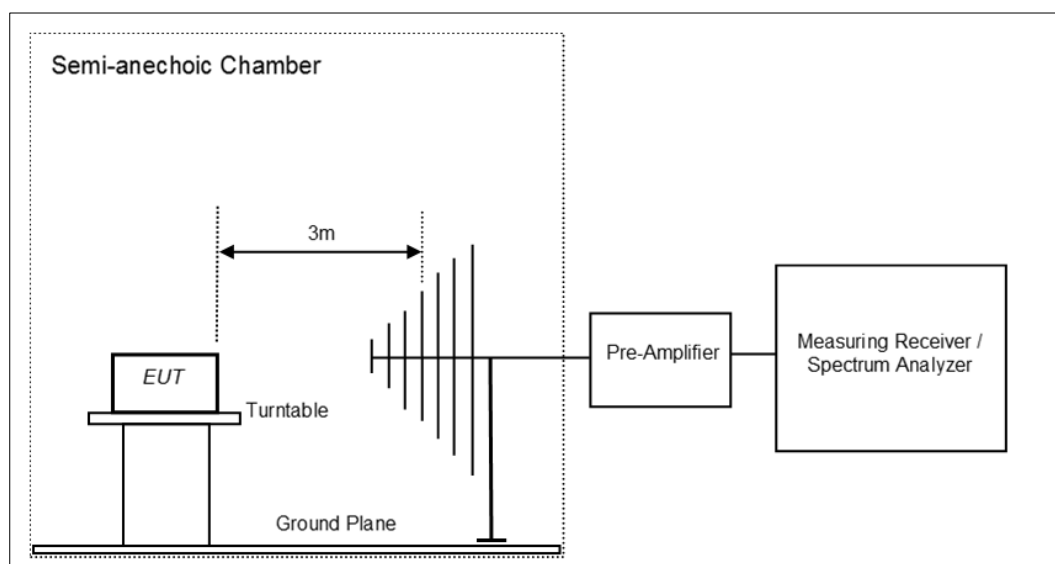


Figure 3: Frequency Range 200 MHz - 1GHz

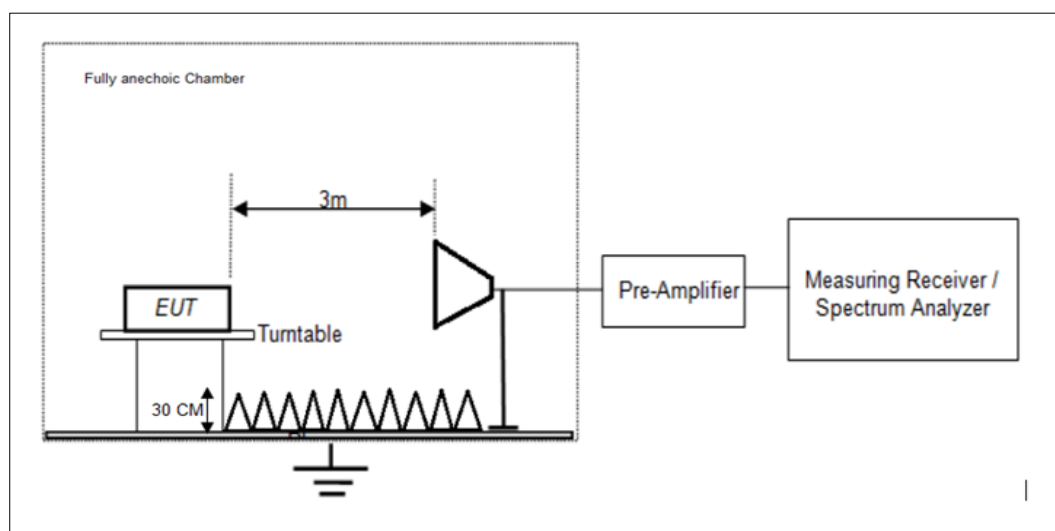


Figure 4: Frequency Range above 1 GHz

7 TEST RESULTS

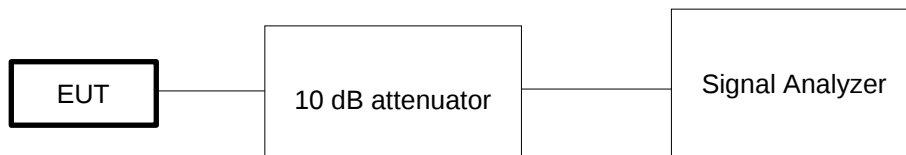
7.1 Occupied channel bandwidth & 20 dB bandwidth

Result

Pass

Test Specification	FCC 15 215 Section C
Test Method	Subclause 6.9.3 of ANSI C63.10
Measurement Bandwidth	200 Hz
Detector	Peak
Requirements	Operation of the EUT must be within the assigned frequency band i.e 13.553MHz to 13.567MHz

Test Setup



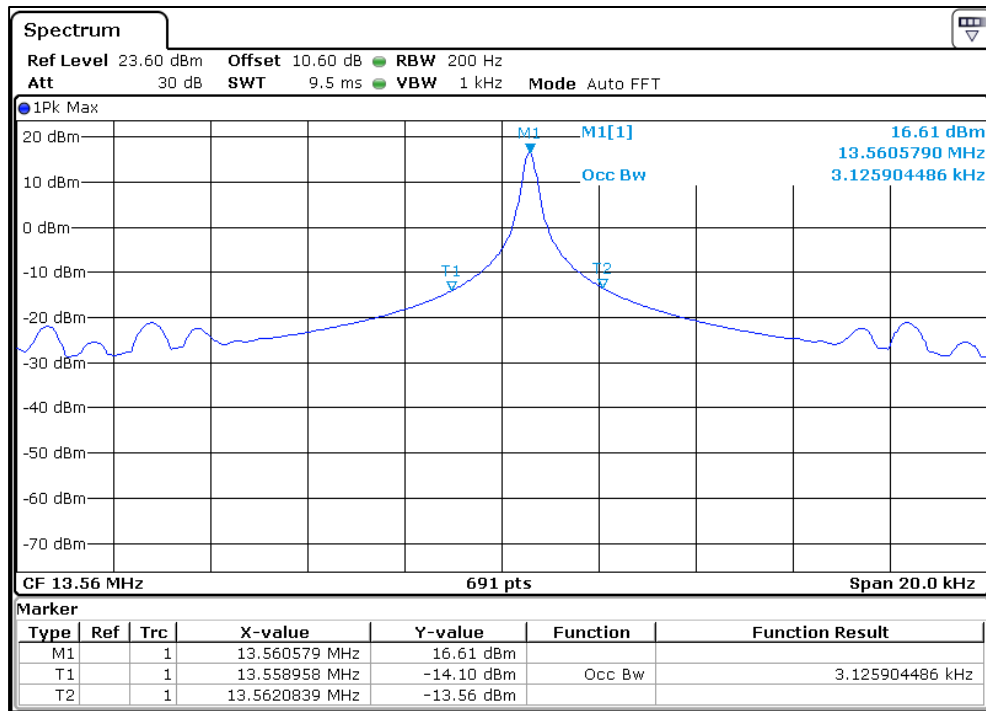
Test Condition

Normal Test Condition:

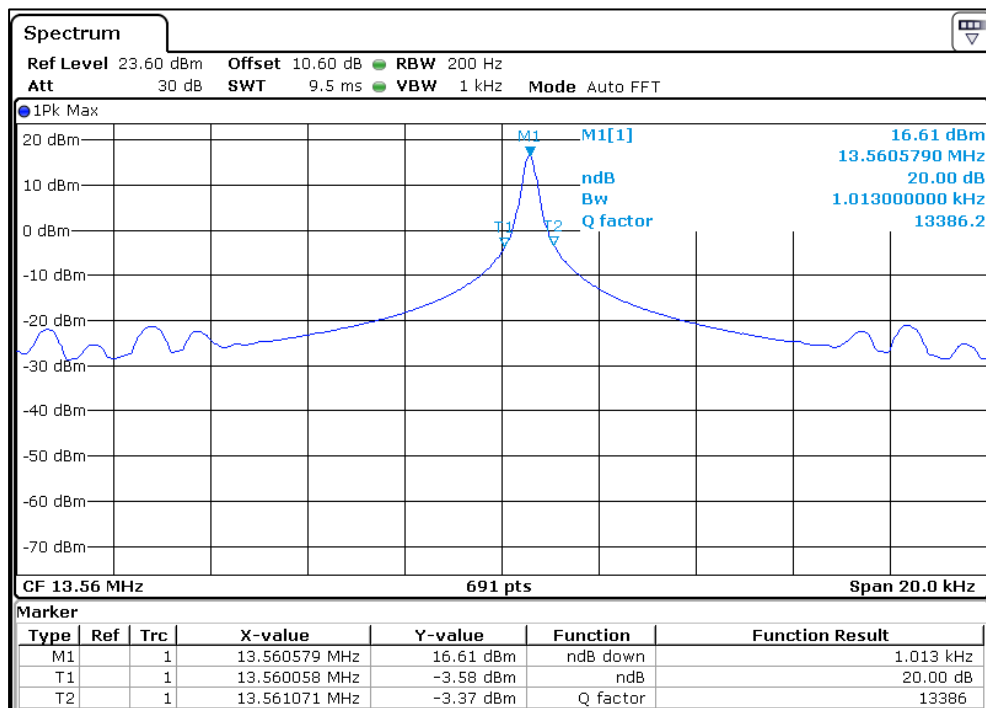
Temperature (Norm) = + 25 °C Voltage = 24VDC Through DC Power supply Relative humidity: 62%

Channel frequency (MHz)	Measured 99% Occupied Channel Bandwidth (MHz)	Measured 20dB Bandwidth (MHz)	Limit (MHz)
13.56	0.0031	0.001	Operation of the EUT must be within the assigned frequency band i.e 13.553MHz to 13.567MHz

Test plots 1: Occupied & 20 dB bandwidth measurement plots



99% of Occupied Channel Bandwidth



20dB Bandwidth

Remark: Use of 1 to 5 % RBW is not practical for this modulation, hence RBW of 200 Hz is used

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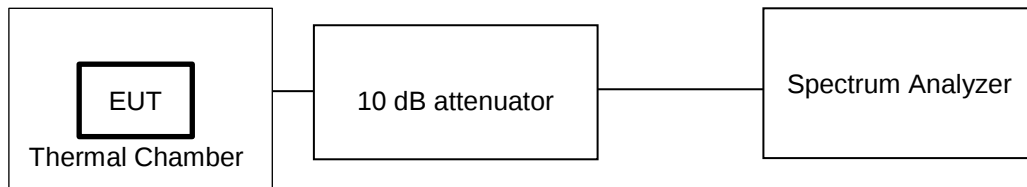
7.2 Frequency tolerance

Result

Pass

Test Specification	FCC part 15 Subpart C 15.225 (e)
Test Method	Subclause 6.8 of ANSI C63.10
Measurement Bandwidth	30 Hz
Detector	Peak detector
Requirement	The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ as per FCC

Test Setup:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 25°C Voltage = 24VDC Through DC Power supply Relative humidity: 62 %

Extreme Temperature:

Nominal temperature: 15 °C to 30 °C

Extreme temperatures : 5 °C to + 40 °C with temperature variation step of 5°C

Extreme supply voltage:

Lower extreme: 20.4 VDC

Higher extreme: 27.6 VDC

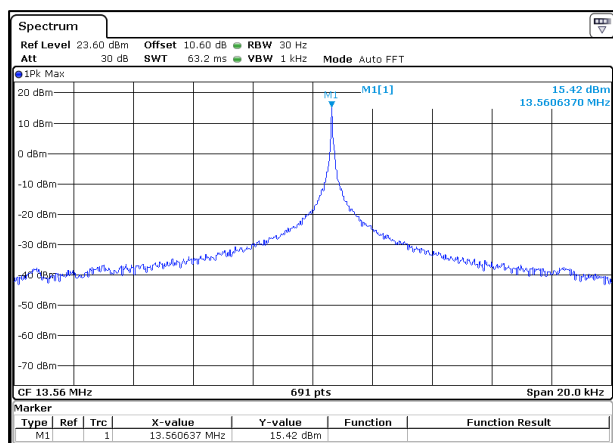
Test results:

Table 5: Frequency tolerance results

Channel Frequency (MHz)	Temp(°C)	Voltage(V)	Measured Frequency (MHz)	Frequency deviation (Hz)	Frequency deviation limit (Hz)
13.560000	5	24VDC	13.560637	0.000637	±1356
13.560000	10		13.560637	0.000637	±1356
13.560000	15		13.560608	0.000608	±1356
13.560000	20		13.560608	0.000608	±1356
13.560000	25		13.560579	0.000579	±1356
13.560000	30		13.560579	0.000579	±1356
13.560000	35		13.560579	0.000579	±1356
13.560000	40		13.560579	0.000579	±1356
13.560000	Normal	15%	13.560579	0.000579	±1356
13.560000		-15%	13.560579	0.000579	±1356

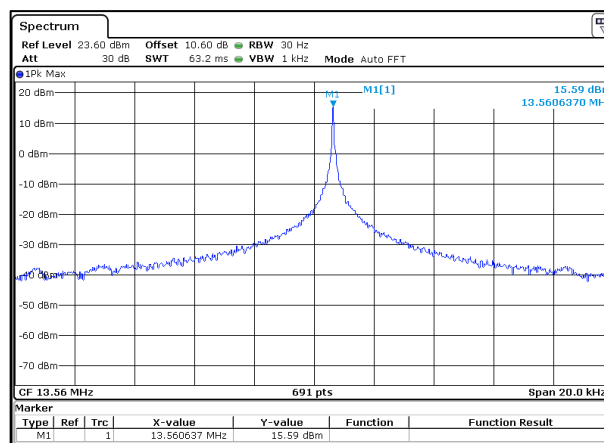
Test plots 2: Frequency tolerance measurement plots

Nominal Voltage with Temperature Variation



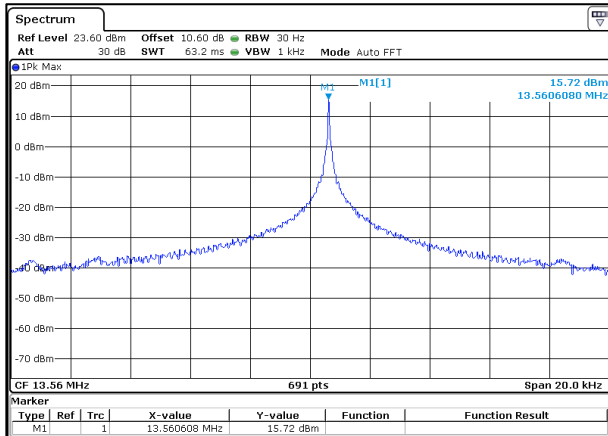
Temperature: 5° C

Supply voltage: Nominal

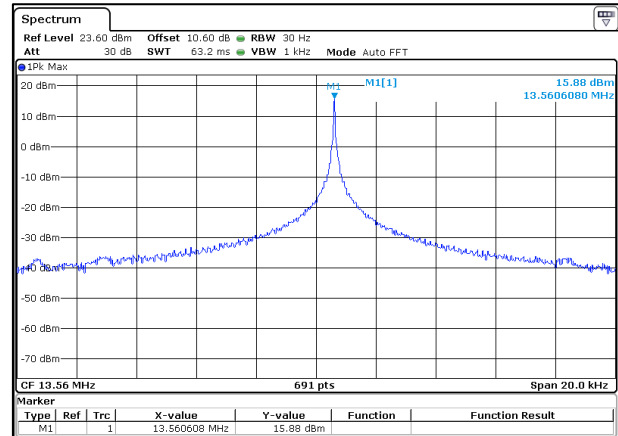


Temperature: 10° C

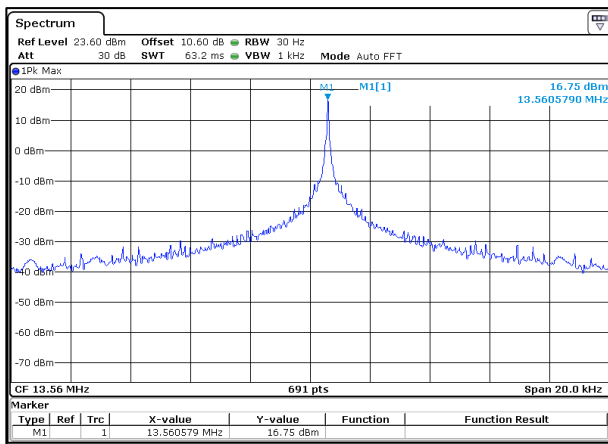
Supply voltage: Nominal



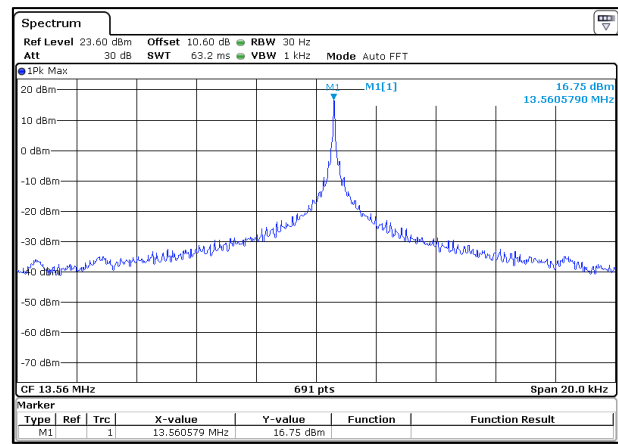
Temperature: 15° C Supply voltage: Nominal



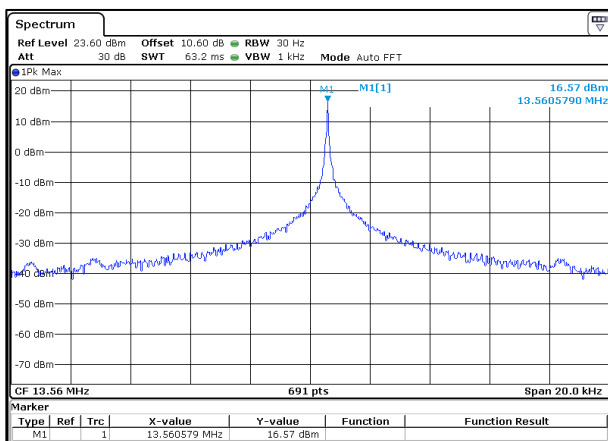
Temperature: 20° C Supply voltage: Nominal



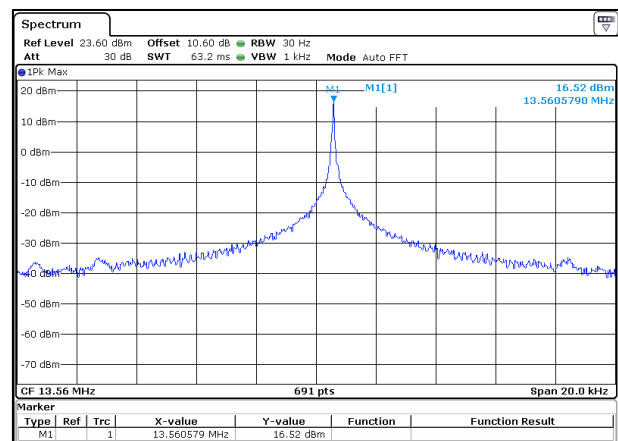
Temperature: 25° C Supply voltage: Nominal



Temperature: 30° C Supply voltage: Nominal

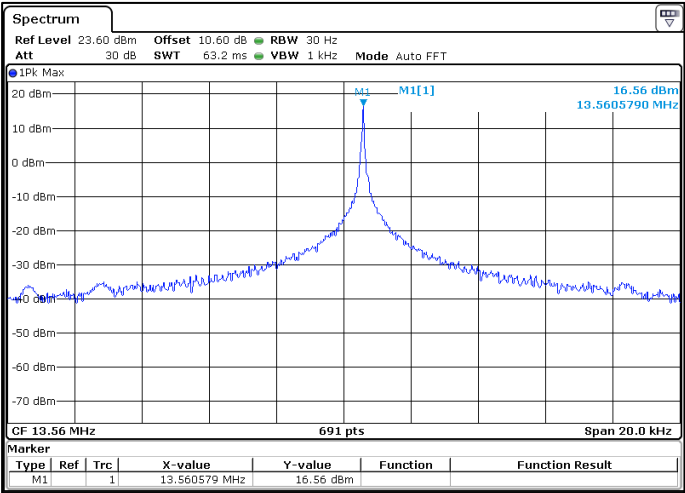


Temperature: 35° C Supply voltage: Nominal



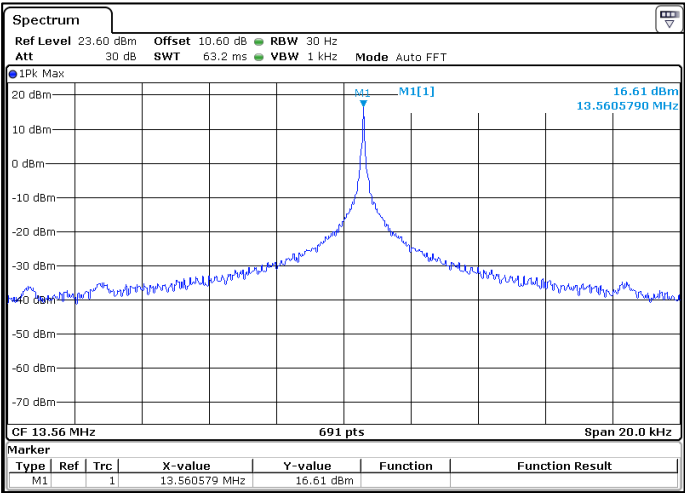
Temperature: 40° C Supply voltage: Nominal

Nominal Temperature with Voltage Variation



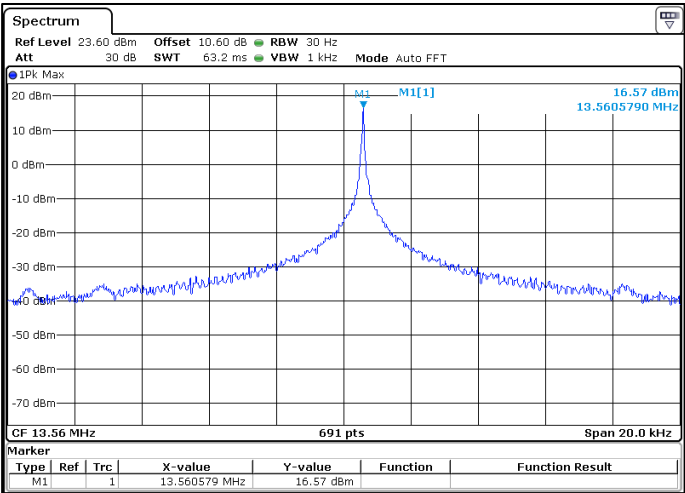
Temperature: 25° C

Supply voltage:20.4DC



Temperature: 25° C

Supply voltage:24VDC



Temperature: 25° C

Supply voltage:27.6VDC

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7.3 Field Strength Measurement within the band 13.110-14.010 MHz

Result

Pass

Test Specification	FCC part 15 Subpart C Section 15.225
Test Method	ANSI C 63.10 – 2013
Measurement Location	Semi Anechoic Chamber
Measuring Distance	3 m
Detector	Peak detector
Requirement	As mentioned in the below
Test Setup	Refer TEST METHODOLOGY

Table 6: Field strength limits in 13.110-14.010 MHz operation

Frequency	Field strength ($\mu\text{V/m}$)	Field strength limit for 30 meter distance	Field strength limit for 3 meter distance
(MHz)		(dB $\mu\text{V/m}$)	(dB $\mu\text{V/m}$)
13.553 -13.567	15848	83.99	123.99
13.410-13.553 and 13.567 -13.710	334	50.47	90.47
13.110 -13.410 and 13.710-14.010	106	40.5	80.5

Note: As per the 15.31 Section f(2) , distance correction factor of 40dB/decade is used to convert Field strength limit from 30 meter to 3 meter measurement antenna distance.

Test Condition

Normal Test Condition:

Temperature (Norm) = + 24.8°C Voltage = 24VDC Through DC Power supply Relative humidity: 61.76 %

Extreme Temperature:

Nominal temperature: 15 °C to 30 °C

Extreme temperatures : +5 °C to + 40 °C with temperature variation step of 5°C

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Test results:

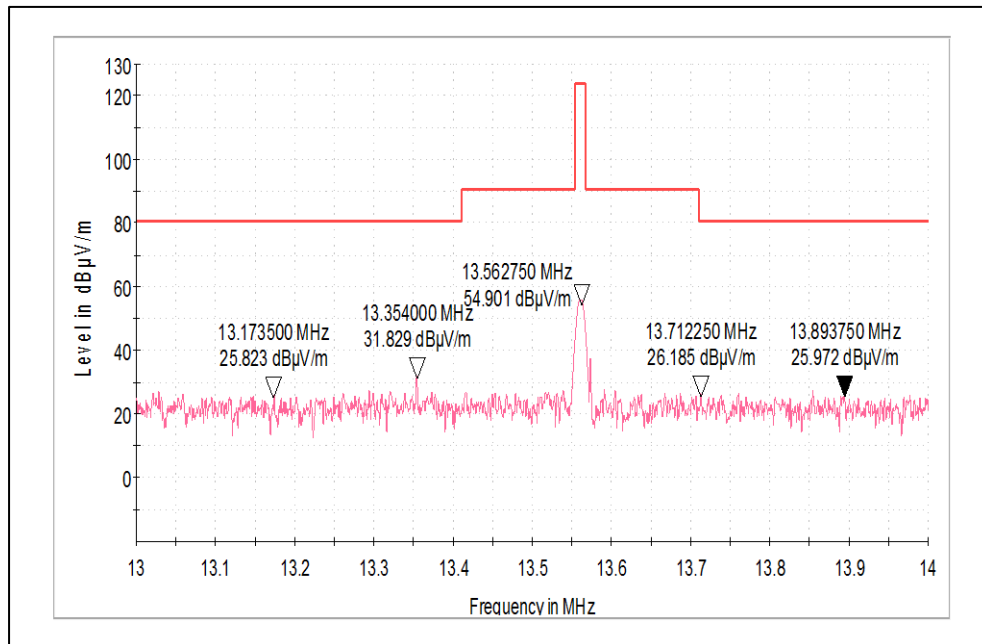
Table 7: Field Strength Measurement within the band 13.110-14.010 MHz

Antenna Polarization	Frequency range (MHz)	Measured frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Parallel	13.11-13.41	13.17	25.82	80.50	-54.68
	13.553-13.567	13.56	54.90	123.99	-69.09
	13.567-13.71	13.71	26.18	90.47	-64.29
	13.71-14.01	13.89	25.97	80.50	-54.53
Perpendicular	13.11-13.41	13.15	27.28	80.50	-53.22
	13.553-13.567	13.55	55.14	123.99	-68.85
	13.567-13.71	13.66	27.73	90.47	-62.74
	13.71-14.01	13.82	26.97	80.50	-53.53

Note:

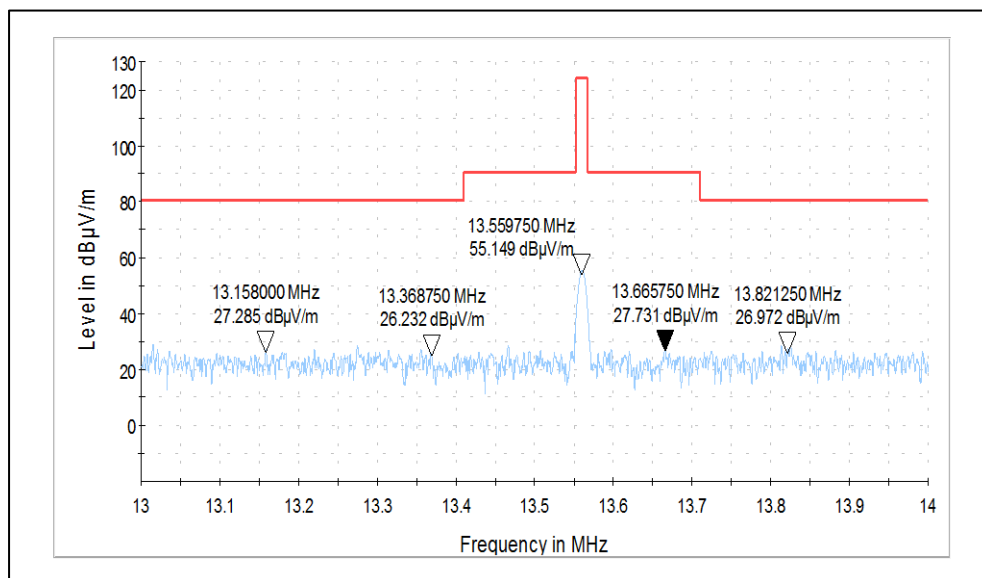
- Field strength limits are converted to 3mts measurement distance .

Test plots 3: Spectrum Emission mask in the frequency range 13.110 MHz to 14.010 MHz



Frequency range: 13.11MHz to 14.01 MHz

Antenna polarization: Parallel



Frequency range: 13.11MHz to 14.01 MHz

Antenna polarization: Perpendicular

7.4 Spurious Radiated Emissions

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205)
Test Method	ANSI C63.10
Measurement Location	Semi anechoic chamber
Measurement Bandwidth	100 kHz for frequency range < 1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer TEST METHODOLOGY

Table 8: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Conditions:

Normal Test Condition:

Temperature (Norm) = + 24.8°C Voltage = 24VDC Through DC Power supply Relative humidity: 61.76 %

Extreme Temperature:

Nominal temperature: 15 °C to 30 °C

Extreme temperatures : +5 °C to + 40 °C with temperature variation step of 5°C

Test results:

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

Test results for frequency range 9kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz other than EUT intended power at 13.56MHz, and other measured spurious emission levels are below 20dB from the limit line, hence not reported

Test results for frequency range 30MHz to 200MHz

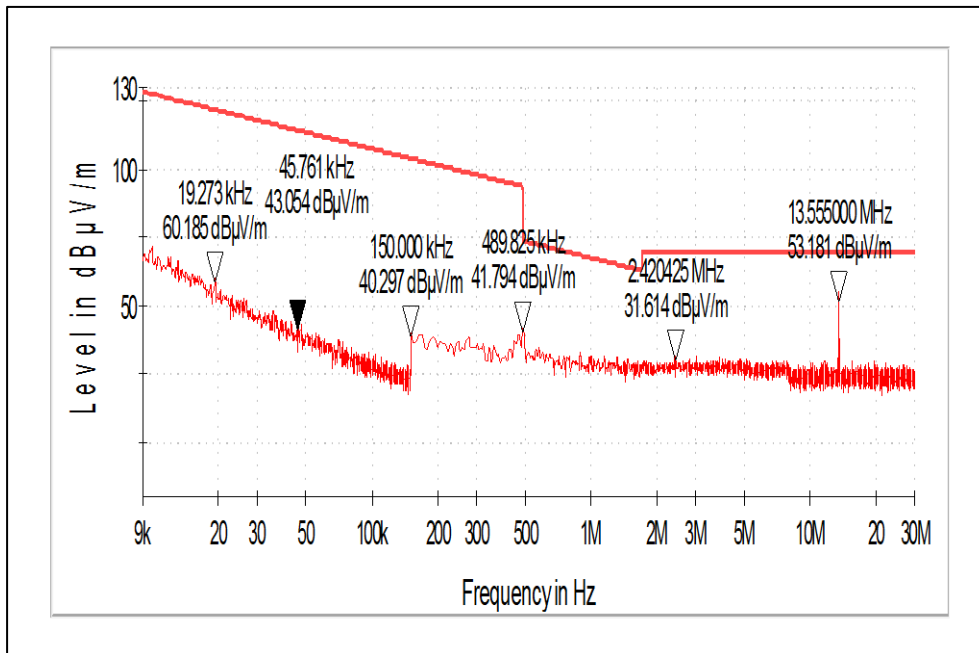
Table 9: Spurious emissions in the frequency range 30MHz to 200MHz

Antenna Polarization	Measured Frequency (MHz)	Measured Peak Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	40.56	15.33	40.00	-24.67
	45.54	16.15	40.00	-23.85
	54.16	10.86	40.00	-29.14
	75.9	21.07	40.00	-18.93
	151.67	30.48	43.50	-13.02
	176.07	25.83	43.50	-17.67
Horizontal	31.82	11.05	40.00	-28.95
	40.68	12.86	40.00	-27.14
	75.9	13.9	40.00	-26.1
	94.84	12.23	43.50	-31.27
	122.04	15.89	43.50	-27.61
	152.15	39.01	43.50	-4.49

Table 10: Spurious emissions in the frequency range 200MHz to 1GHz

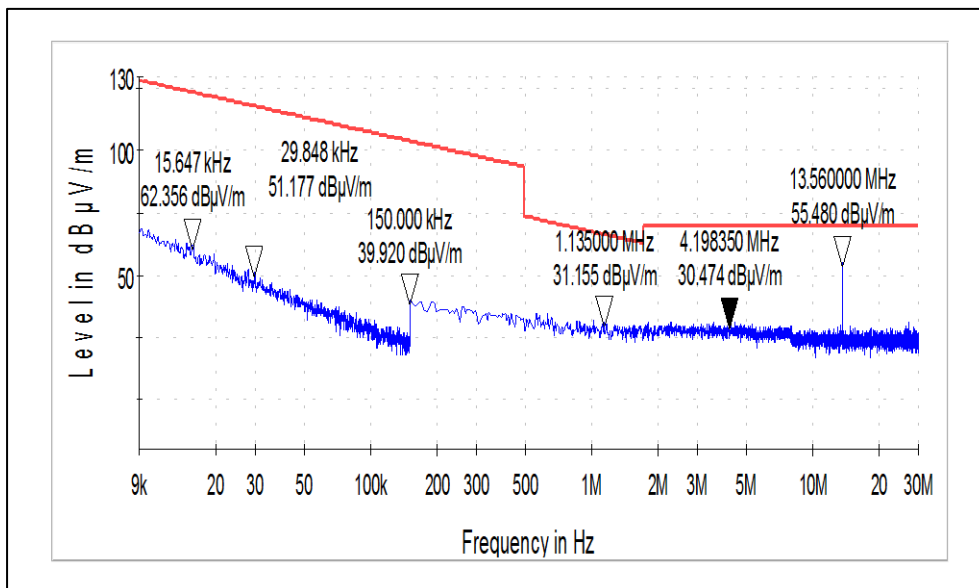
Antenna Polarization	Measured Frequency (MHz)	Measured Peak Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	227.4	31.3	46.02	-14.72
	259.61	37.46	46.02	-8.56
	379.61	23.75	46.02	-22.27
	454.8	26.58	46.02	-19.44
	607.76	23.77	46.02	-22.25
	833.35	33.75	46.02	-12.27
Horizontal	227.73	36.27	46.02	-9.75
	265.25	37.84	46.02	-8.18
	380.08	32.69	46.02	-13.33
	456.26	32.33	46.02	-13.69
	606.74	28.98	46.02	-17.04
	760.23	35.59	46.02	-10.43
	834.8	35.47	46.02	-10.55

Test plots 4: spurious emissions in 9KHz to 1GHz measurement range.



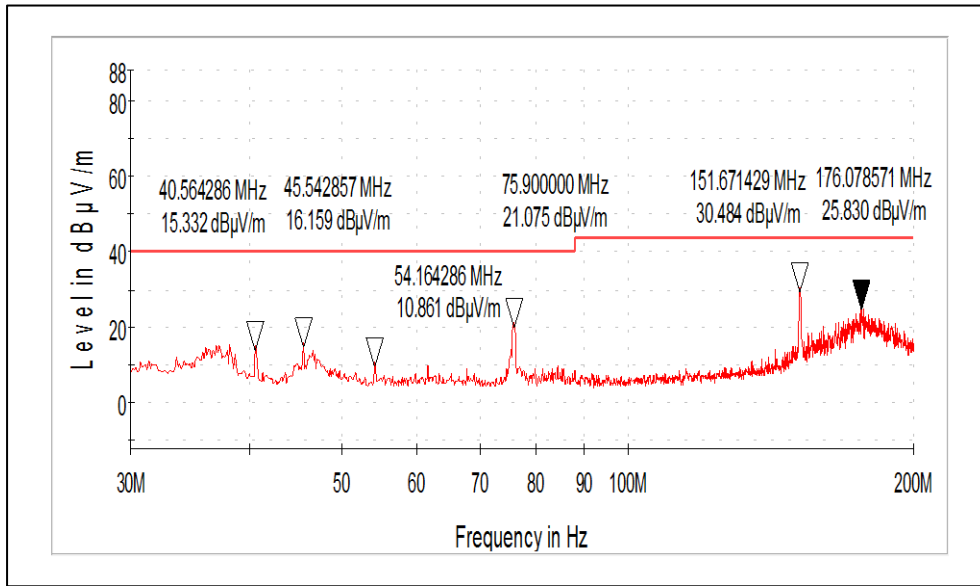
Frequency range: 9 KHz to 30MHz

Antenna polarization: Parallel



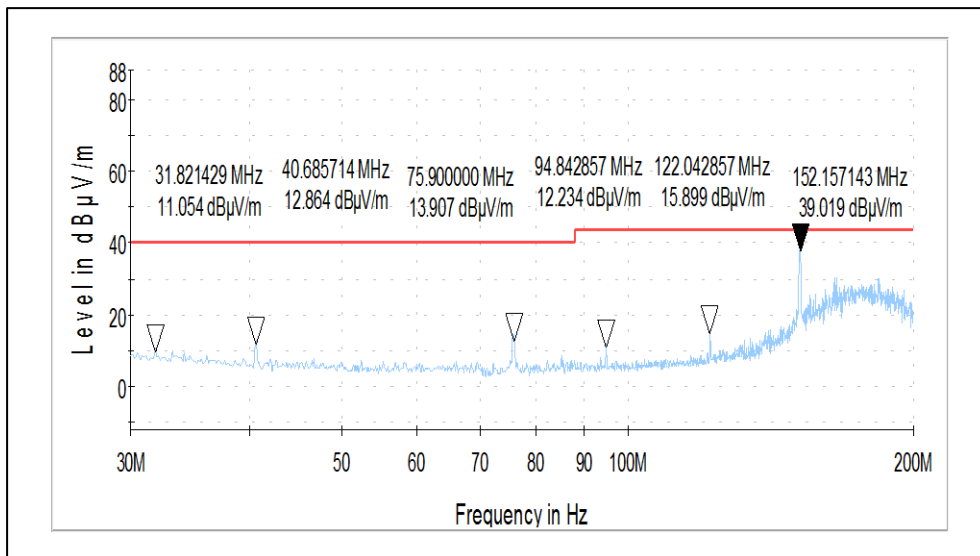
Frequency range: 9 KHz to 30MHz

Antenna polarization: Perpendicular



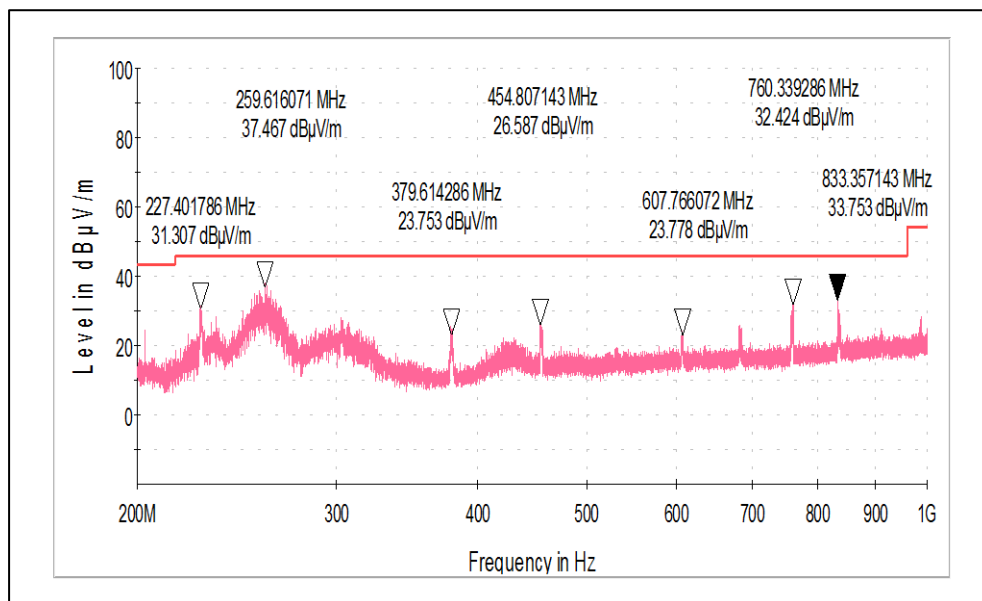
Frequency range: 30MHz to 200MHz

Antenna polarization: Vertical



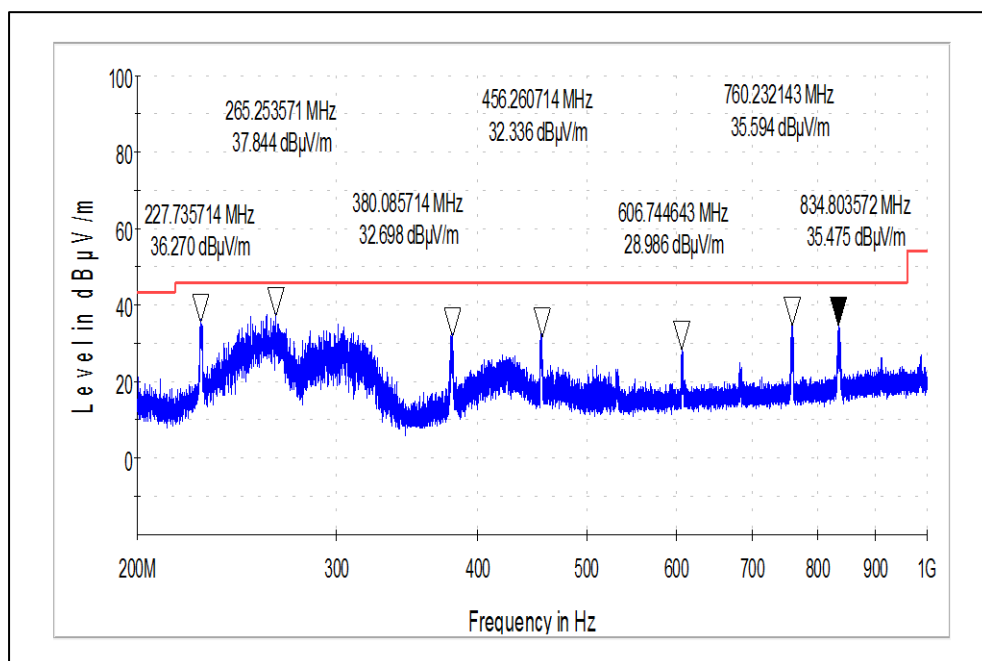
Frequency range: 30MHz to 200MHz

Antenna polarization: Horizontal



Frequency range: 200MHz to 1GHz

Antenna polarization: Vertical



Frequency range: 200MHz to 1GHz

Antenna polarization: Horizontal

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