

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Harman Professional, Inc.
8500 Balboa Blvd., Northridge, CA 91329 USA
Manufacturer: Harman Professional, Inc.
8500 Balboa Blvd., Northridge, CA 91329 USA
Product Name: Wall Mount Touch Panel
Brand Name: AMX
Model No.: VARIA-SL80
Model Difference: N/A
Report Number: TERF2209001798ER
FCC ID 2AUHEVARIA-SL80
Date of EUT Received: September 20, 2022
Date of Test: September 22, 2022 ~ September 26, 2022
Issue Date: October 24, 2022

Approved By _____

Jim Chang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.225.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2209001798ER	00	Original	October 24, 2022	Yuri Tsai	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Wall Mount Touch Panel
Brand Name:	AMX
Model No.:	VARIA-SL80
Model Difference:	N/A
Hardware Version:	R.04
Firmware Version:	N/A
EUT Series No.:	0801DV-0025
Power Supply:	100-240V 50/60Hz
Test Software (Name/Version)	TagInfo Version 4.25.4

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 6.46dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology

FCC Part 15, Subpart C §15.225

ANSI C63.10:2013.

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.5 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.3 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

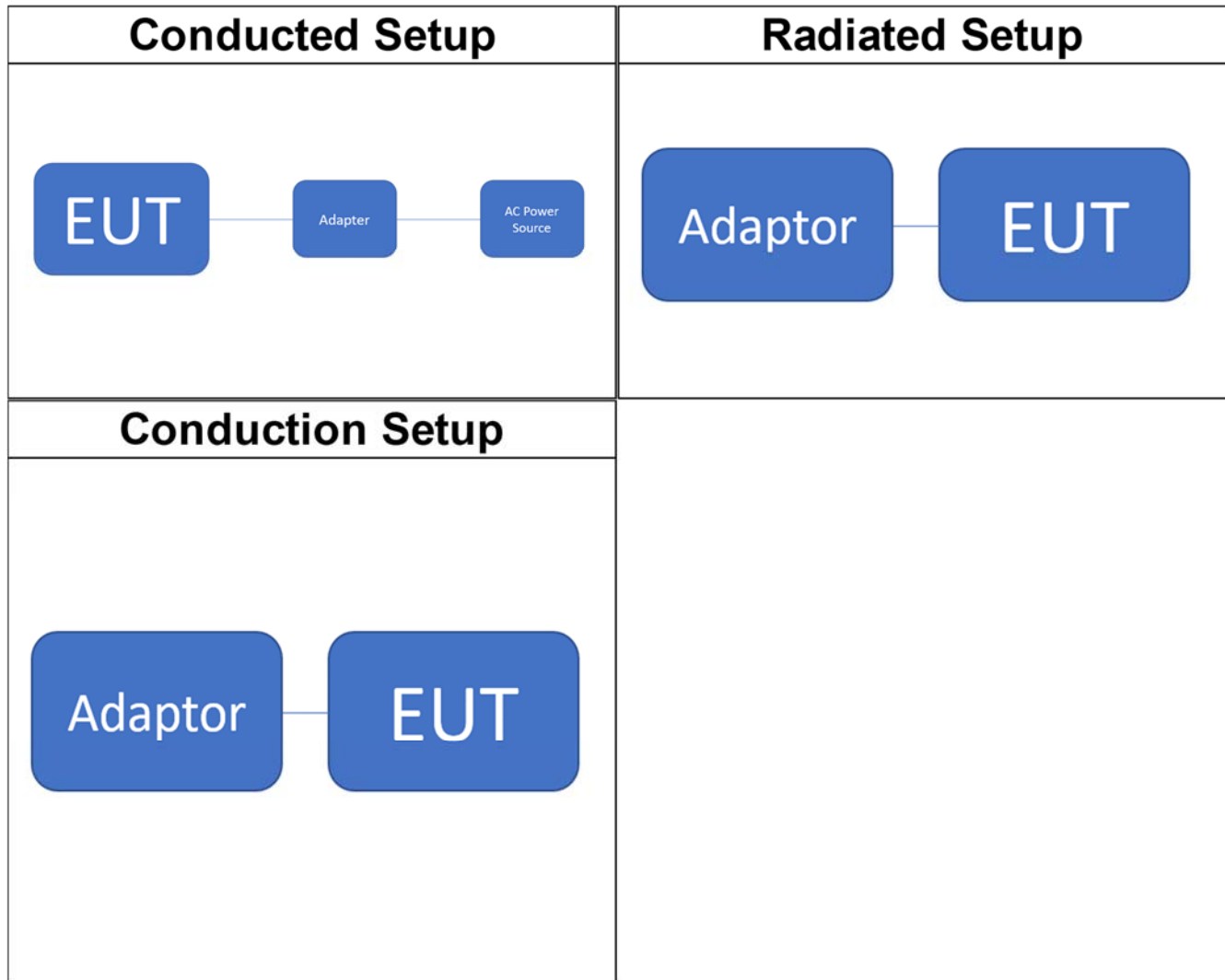
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2.4 Test Configuration



2.5 Control Unit(s)

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
H-Loop Near Field Antenna	EMCI	LF-R 400	02-1637	N/A	N/A
Adapter	tp-link	TL-POE150S	2224368003407	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
Adapter	tp-link	TL-POE150S	2224368003407	N/A	N/A
AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
Adapter	tp-link	TL-POE150S	2224368003407	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT stay in continuous transmission mode.
2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
3. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK
FREQUENCY STABILITY			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK
20dB BANDWIDTH			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Frequency Stability	+/- 1.53 Hz
Emission Bandwidth	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.57 dB	9kHz~30MHz
	+/-	4.85 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.57 dB	9kHz~30MHz
	+/-	4.37 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESR 7	102525	02/17/2022	02/16/2023
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2021	12/06/2022

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	05/19/2022	05/18/2023
Temperature Chamber	TERCHY	MHG-120LE	1110435	05/27/2022	05/26/2023
AC Power Source	Gwinstek	APS-7050E	GEV171679	09/28/2021	09/27/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022

6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2022	04/26/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	HP	8447D	2944A07676	12/16/2021	12/15/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2021	12/15/2022
Site Cal	SGS	SAC 3	N/A	01/01/2022	12/31/2022

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7 CONDUCTED EMISSIONS TEST

7.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

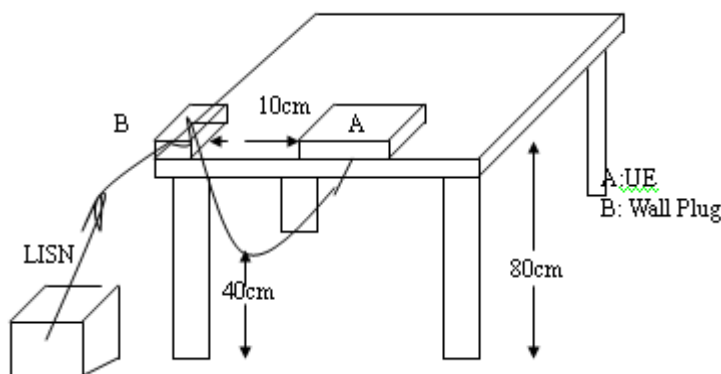
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP (Block Diagram of Configuration)



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2209001798ER

Test Site :Conduction 1

Test Mode :Operation(NFC)

Test Date :2022-09-26

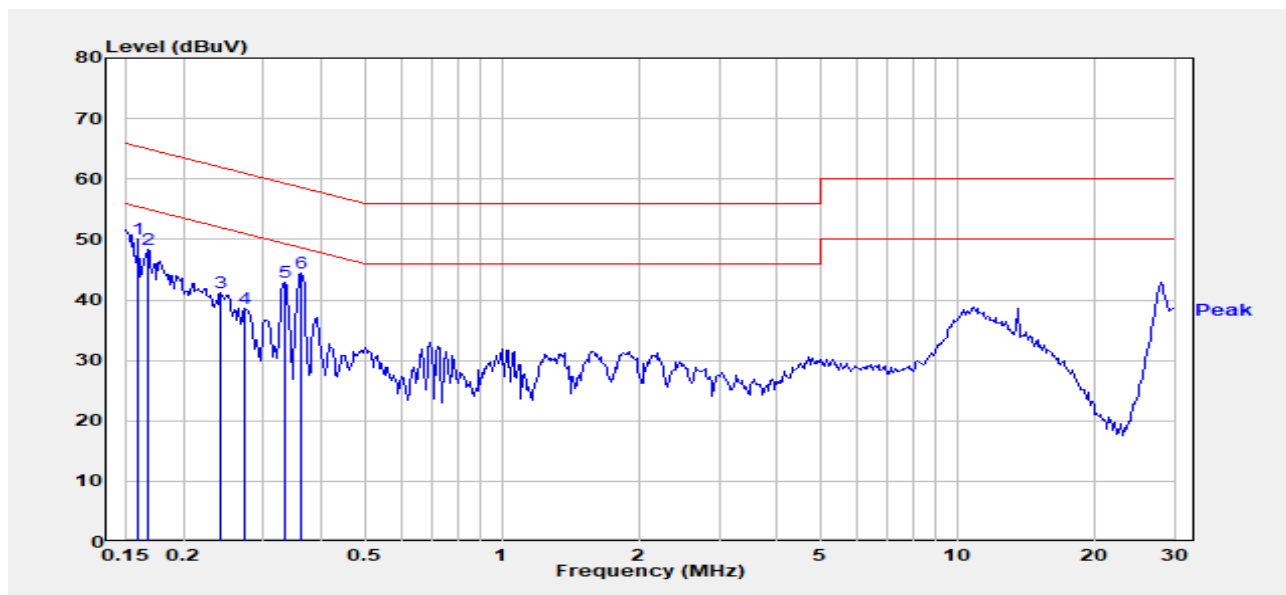
Power :120V/60Hz

Temp./Humi. :24.3/70

Probe :L

Engineer :Nick Lin

Note: :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.160	Peak	39.73	10.25	49.98	65.49	-15.51
0.167	Peak	38.02	10.25	48.27	65.11	-16.84
0.241	Peak	30.87	10.25	41.12	62.05	-20.92
0.273	Peak	28.27	10.25	38.52	61.03	-22.51
0.333	Peak	32.67	10.25	42.92	59.37	-16.45
0.363	Peak	34.15	10.25	44.40	58.67	-14.26

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Report Number :TERF2209001798ER

Test Mode :Operation(NFC)

Power :120V/60Hz

Probe :N

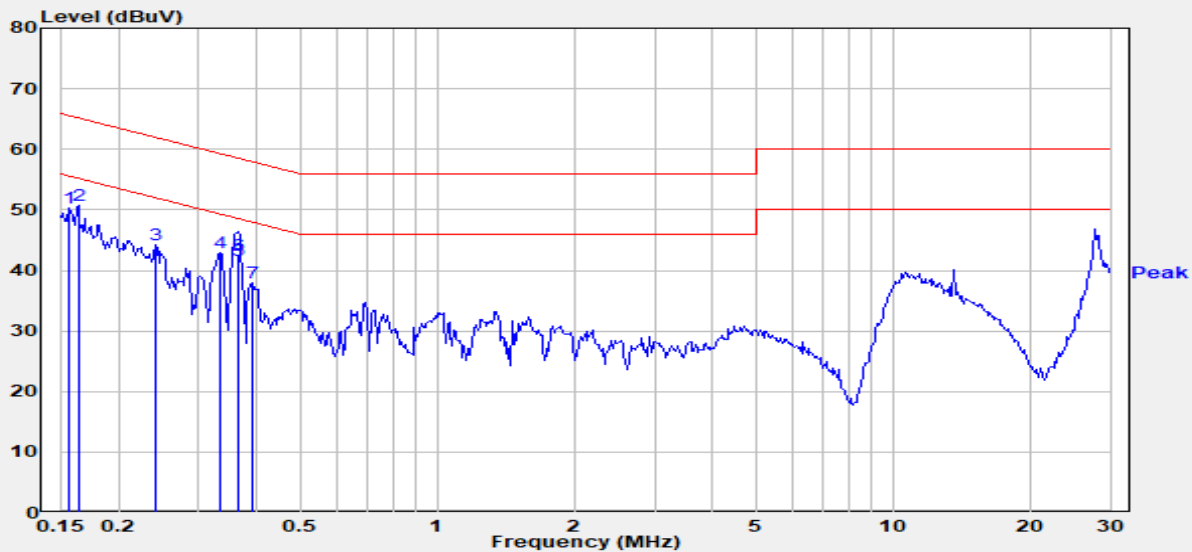
Note: :

Test Site :Conduction 1

Test Date :2022-09-26

Temp./Humi. :24.3/70

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	Peak	39.97	10.25	50.22	65.68	-15.46
0.163	Peak	40.46	10.25	50.71	65.30	-14.59
0.241	Peak	33.96	10.25	44.21	62.05	-17.83
0.333	Peak	32.64	10.25	42.89	59.37	-16.48
0.366	Average	31.43	10.25	41.68	48.60	-6.92
0.366	QP	32.29	10.25	42.54	58.60	-16.06
0.395	Peak	27.74	10.25	37.99	57.96	-19.97

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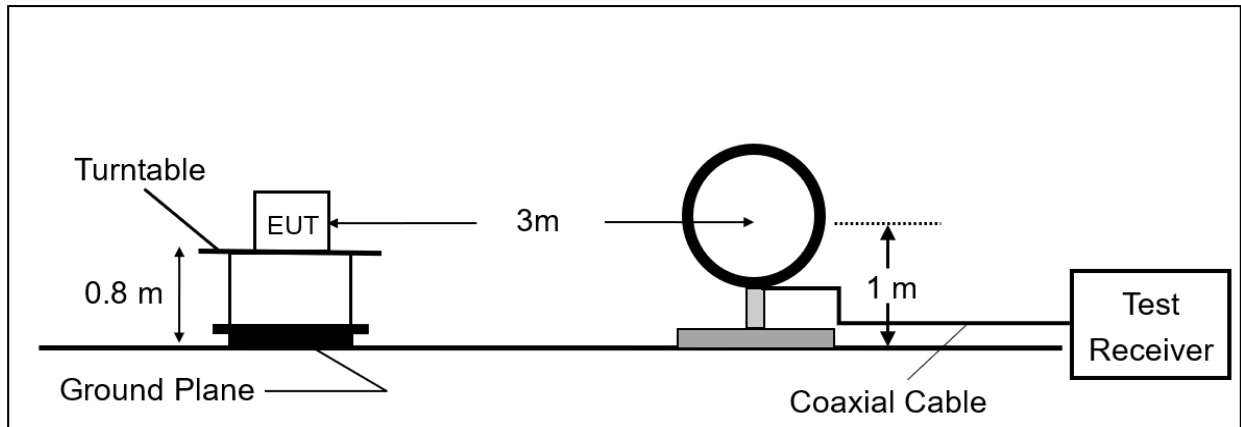
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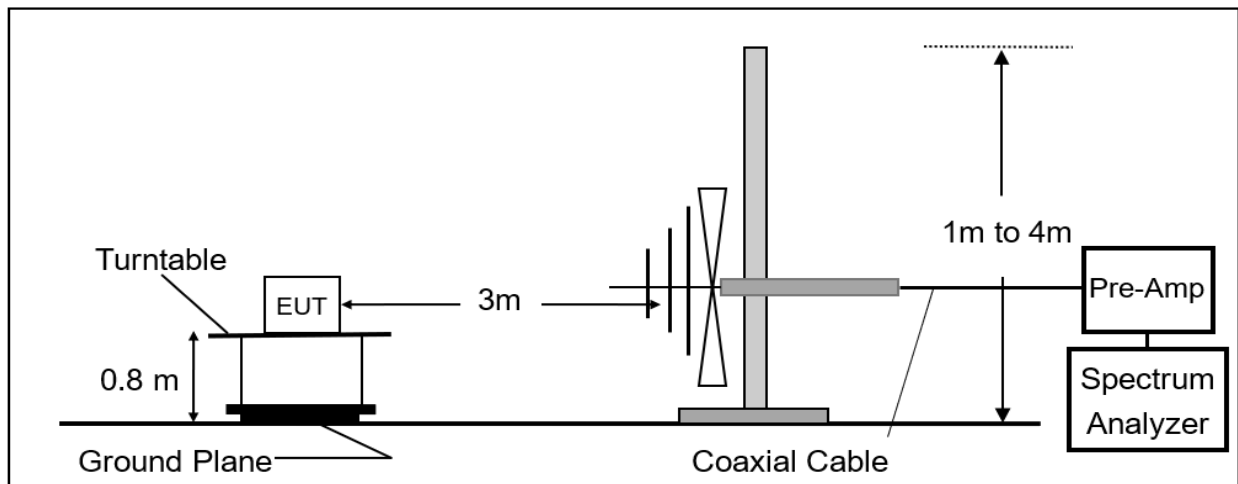
8 RADIATED EMISSION TEST

8.1 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



8.2 Measurement Procedure

1. Configure the EUT according to ANSI C63.10.
2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all default test channel measured were complete.

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8.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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8.4 Field Strength of Fundamental Emission

8.4.1 Applicable standard

Rules and specifications	CFR 47 Part 15 section 15.225(a)-(d)	
Frequency of Emission (MHz)	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 30m
1.705~13.110	30	29.5
13.110~13.410	106	40.5
13.410~13.553	334	50.5
13.553~13.567	15848	84
13.567~13.710	334	50.5
13.710~14.010	106	40.5
14.010~30.00	30	29.5

8.4.2 Distance Extrapolation Factor

30m to 3m

Distance extrapolation = $40 \cdot \log(30/3) = 40 \text{ dB}$

30m to 10m

Distance extrapolation = $40 \cdot \log(30/10) = 19.08 \text{ dB}$

10m to 3m

Distance extrapolation = $40 \cdot \log(10/3) = 20.92 \text{ dB}$

Note:

- Distance extrapolation factor = $40 \log(\text{required distance} / \text{test distance}) \text{ (dB)}$
- The lower limit shall apply at the transition frequencies.
- KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification:
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS(dB $\mu\text{V/m}$) = Spectrum. Reading level(dB μV) + Factor(dB)

Below 30 MHz of Factor(dB) = Antenna Factor(dB $\mu\text{V/m}$) + Cable Loss(dB) – Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dB $\mu\text{V/m}$) + Cable Loss(dB) – Pre_Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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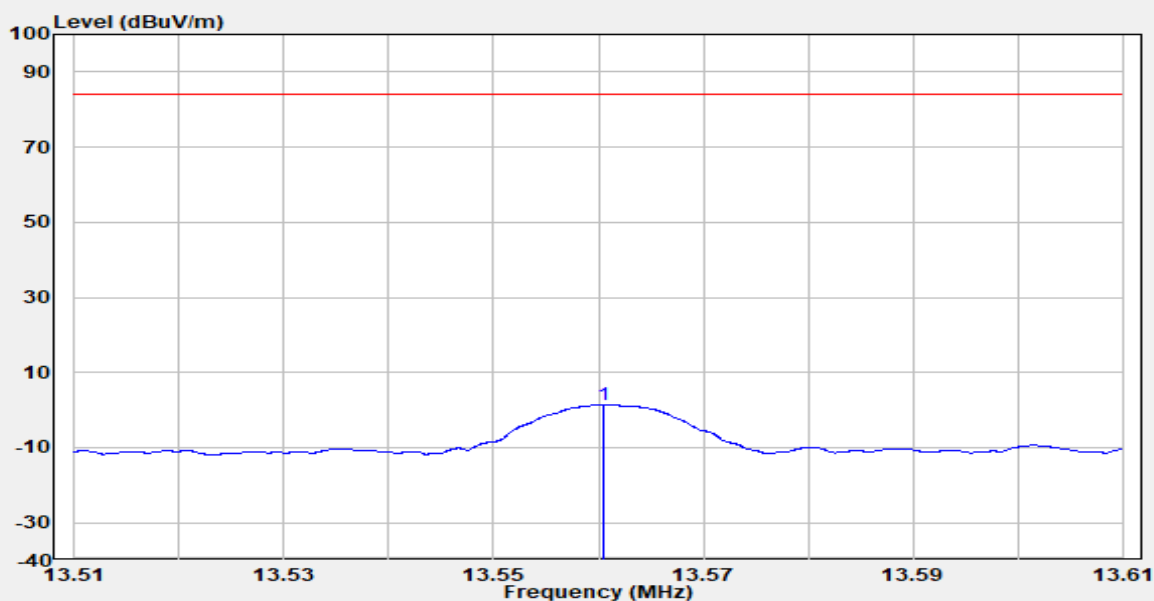
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8.4.3 Field Strength of Fundamental Emission Measurement Result

Report Number :TERF2209001798ER
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Main
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2022-09-22
Temp./Humi. :23.8/63
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
13.560	Peak	29.79	-28.42	1.37	84.00	-82.63

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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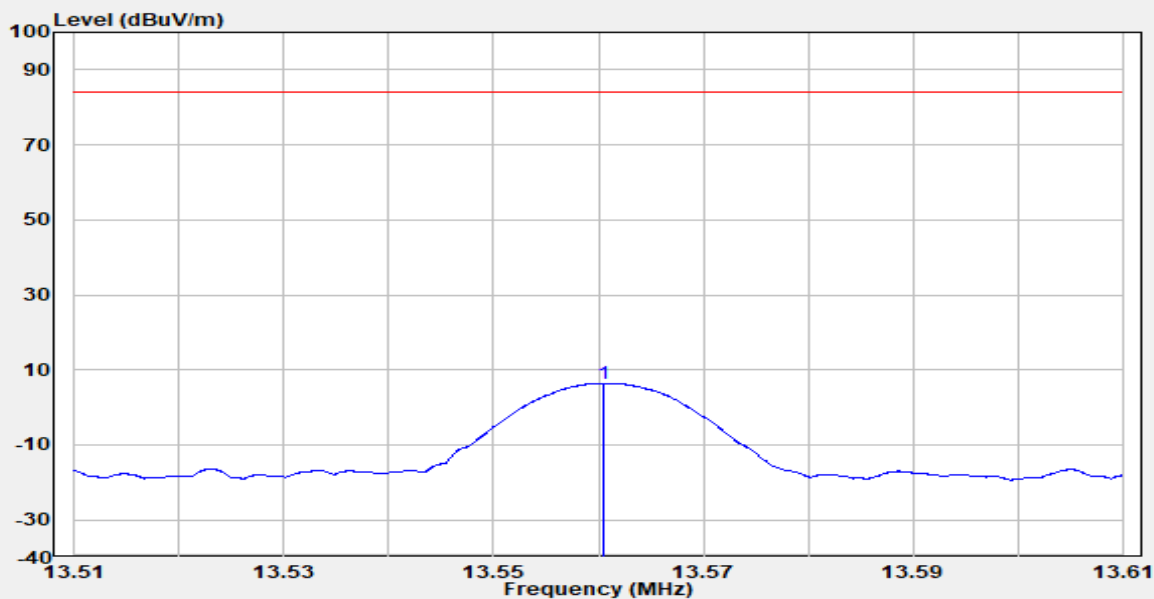
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Report Number :TERF2209001798ER
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2022-09-22
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
13.560	Peak	34.87	-28.42	6.46	84.00	-77.54

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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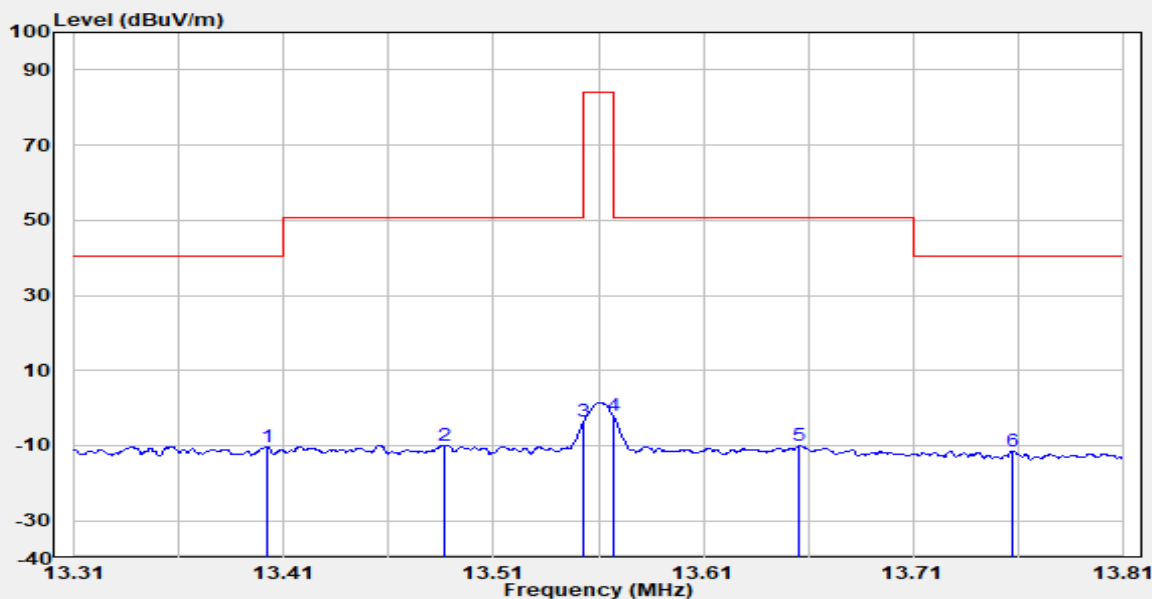
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Report Number :TERF2209001798ER
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2022-09-22
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
13.402	Peak	18.15	-28.40	-10.25	40.50	-50.75
13.487	Peak	18.51	-28.41	-9.90	50.50	-60.40
13.553	Peak	24.88	-28.42	-3.53	50.50	-54.03
13.567	Peak	26.49	-28.42	-1.93	50.50	-52.43
13.656	Peak	18.32	-28.43	-10.10	50.50	-60.60
13.758	Peak	16.96	-28.44	-11.48	40.50	-51.98

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBUV/m) at 300m,within the band 9 kHz - 490 kHz.

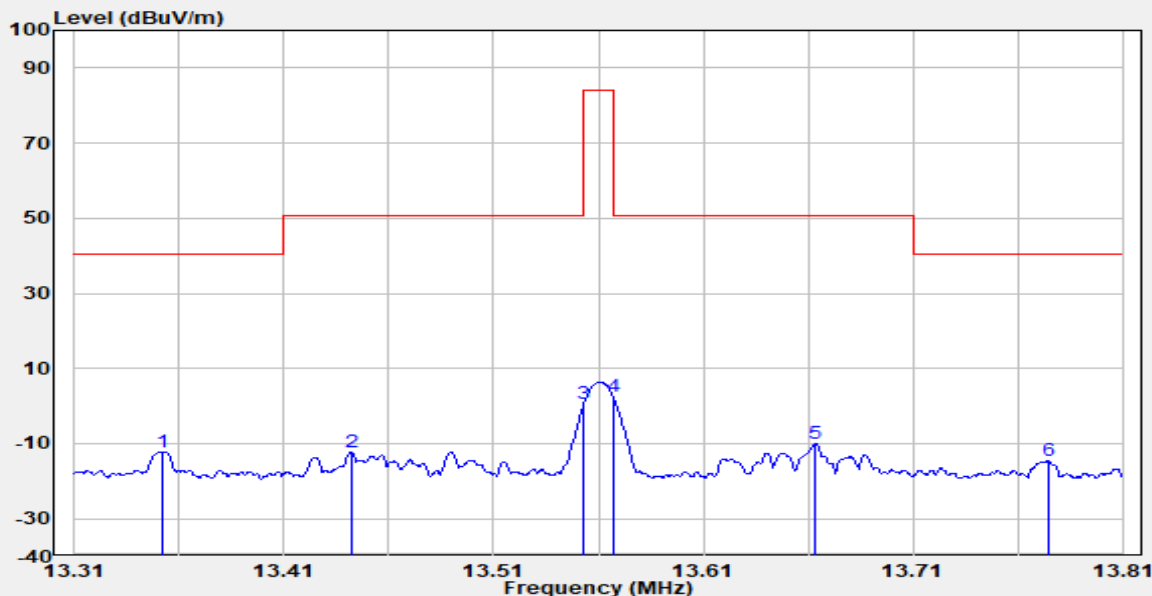
Field strength (dBUV/m) at 30m,within the band 490 kHz - 30 MHz.

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Report Number :TERF2209001798ER
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2022-09-22
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
13.352	Peak	16.15	-28.39	-12.24	40.50	-52.74
13.442	Peak	16.01	-28.40	-12.39	50.50	-62.89
13.553	Peak	28.86	-28.42	0.44	50.50	-50.06
13.567	Peak	31.09	-28.42	2.67	50.50	-47.83
13.664	Peak	18.30	-28.43	-10.13	50.50	-60.63
13.775	Peak	13.78	-28.44	-14.67	40.50	-55.17

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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8.5 Radiated Spurious Emission Measurement

8.5.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$
2. Distance extrapolation factor = $40 \log (\text{required distance/ test distance})$ (dB)
3. $20 * \log(30 \mu\text{V/m}) = 29.54 \text{ dBuV/m}$
4. The lower limit shall apply at the transition frequencies.
5. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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8.5.2 Radiated Spurious Emission Measurement Result

Report Number :TERF2209001798ER

Test Site :SAC 3

Operation Mode :NFC

Test Date :2022-09-22

Test Frequency :13.56 MHz

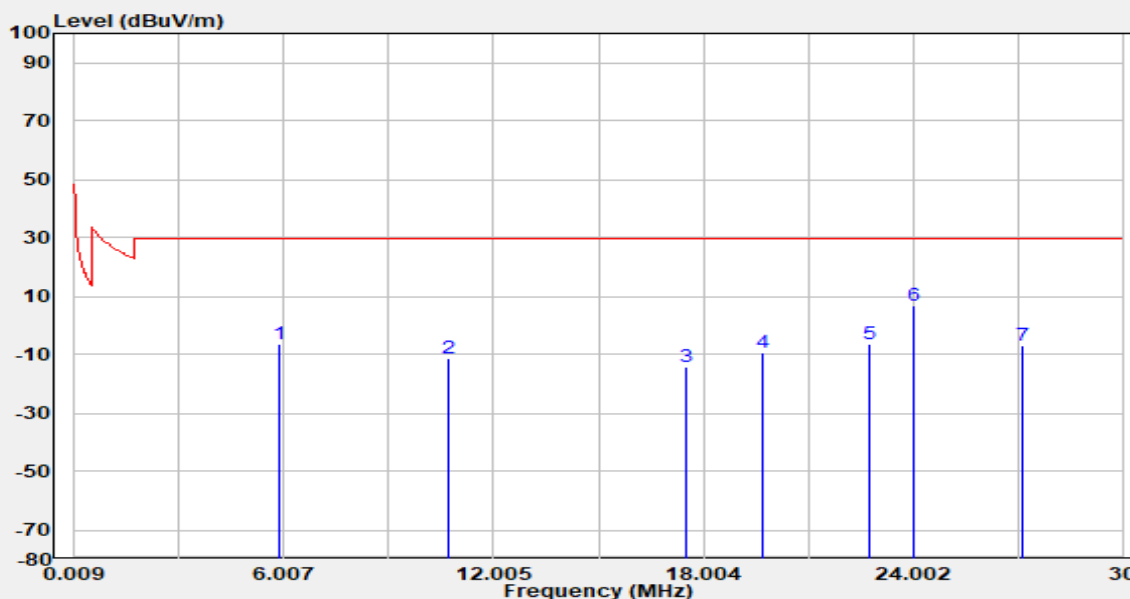
Temp./Humi. :23.8/63

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
5.887	Peak	22.27	-28.56	-6.29	29.54	-35.83
10.686	Peak	16.82	-28.02	-11.20	29.54	-40.74
17.494	Peak	14.62	-28.84	-14.23	29.54	-43.77
19.713	Peak	19.60	-29.04	-9.44	29.54	-38.98
22.742	Peak	23.17	-29.75	-6.58	29.54	-36.12
24.002	Peak	36.75	-30.04	6.71	29.54	-22.83
27.120	Peak	23.98	-30.70	-6.72	29.54	-36.26

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

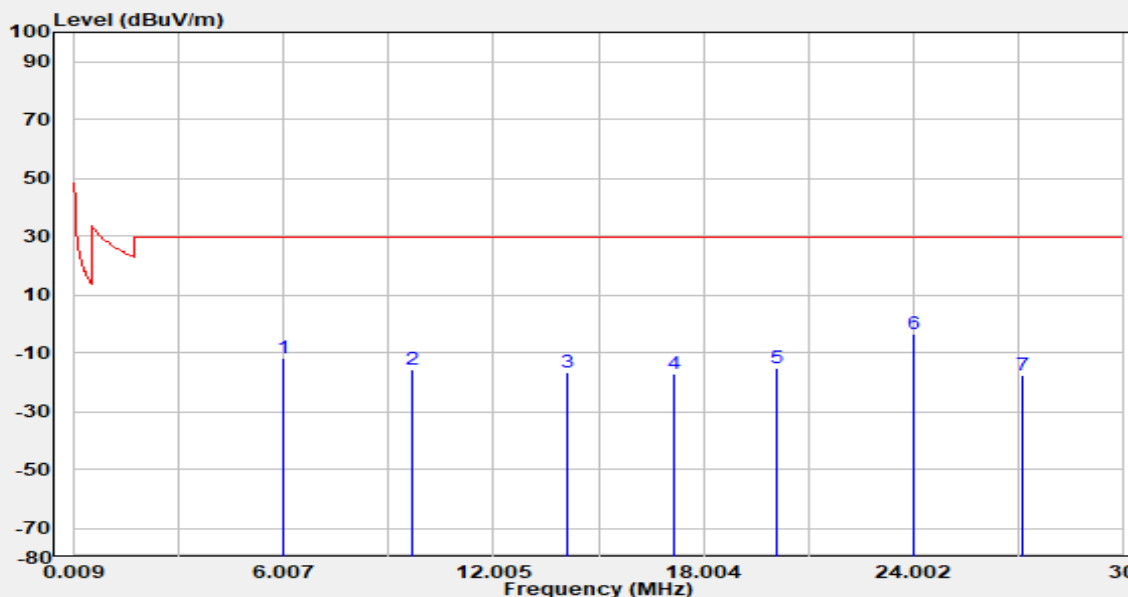
Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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Report Number :TERF2209001798ER
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2022-09-22
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
5.977	Peak	17.05	-28.54	-11.49	29.54	-41.03
9.666	Peak	12.10	-27.95	-15.85	29.54	-45.39
14.105	Peak	12.09	-28.48	-16.39	29.54	-45.93
17.194	Peak	11.66	-28.81	-17.15	29.54	-46.69
20.133	Peak	13.78	-29.10	-15.32	29.54	-44.86
24.002	Peak	26.84	-30.04	-3.20	29.54	-32.74
27.120	Peak	13.14	-30.70	-17.56	29.54	-47.10

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

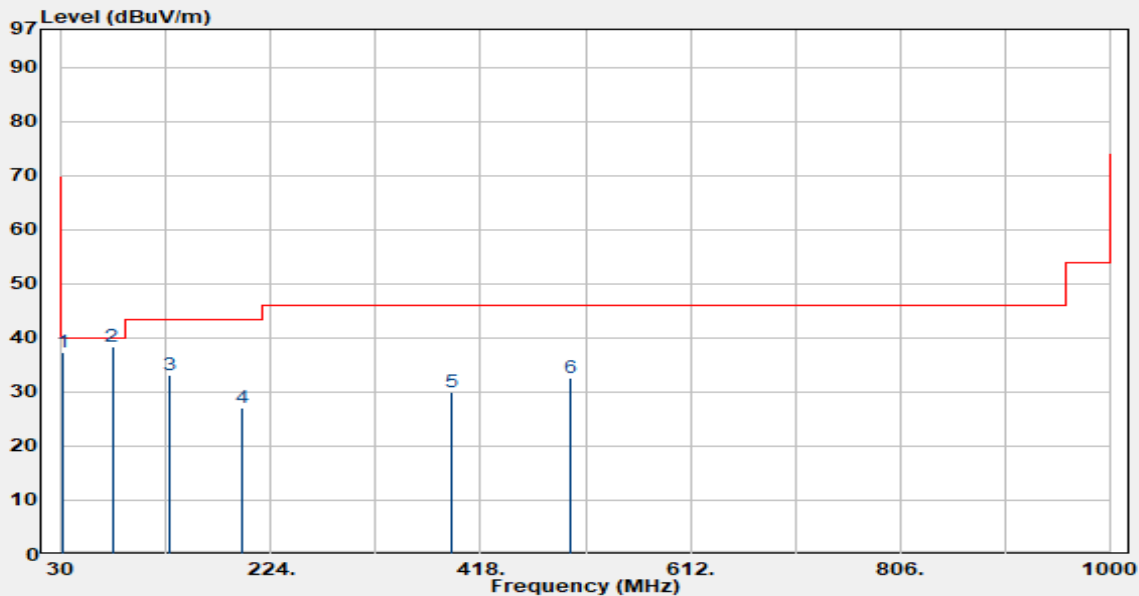
Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2022-09-22
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Nick Lin



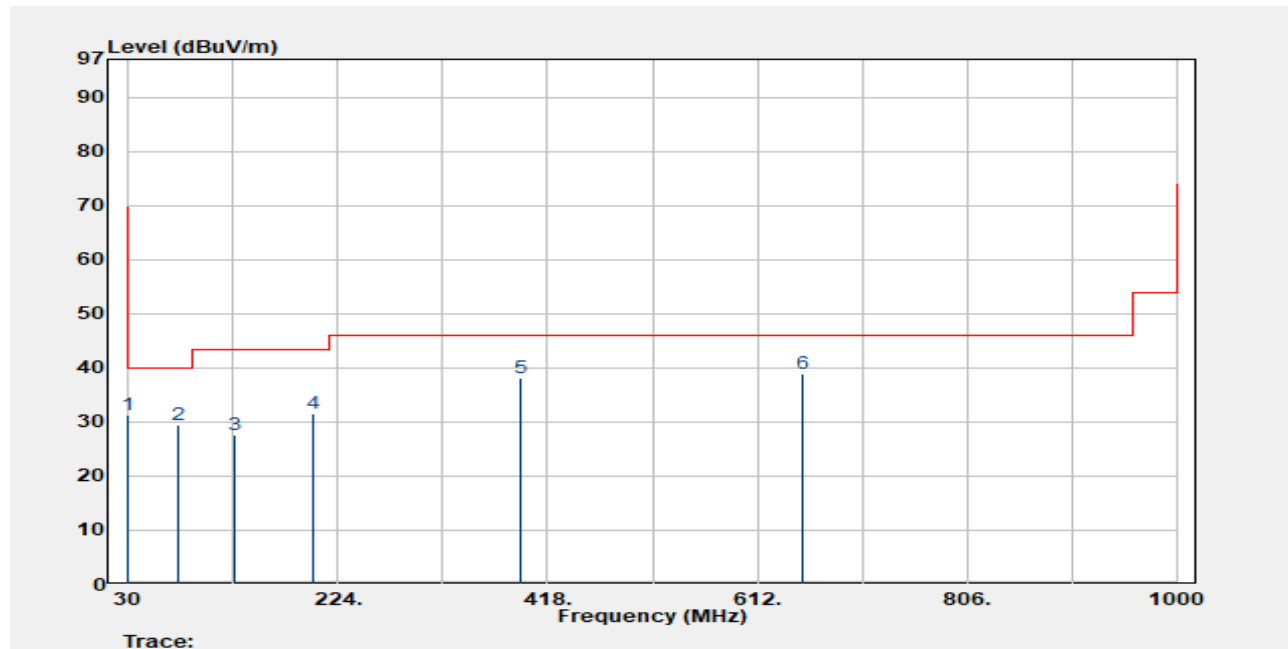
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.990	QP	47.26	-10.05	37.21	40.00	-2.79
76.800	QP	50.49	-12.21	38.28	40.00	-1.72
129.312	QP	42.76	-9.68	33.08	43.50	-10.42
197.810	Peak	37.82	-10.63	27.18	43.50	-16.32
390.840	Peak	34.54	-4.70	29.84	46.00	-16.16
500.450	Peak	35.60	-3.02	32.58	46.00	-13.42

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Report Number :TERF2209001798ER
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 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2022-09-22
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
30.000	Peak	41.47	-10.16	31.31	40.00	-8.69
76.560	Peak	41.51	-12.12	29.39	40.00	-10.61
128.940	Peak	37.39	-9.75	27.64	43.50	-15.86
200.720	Peak	42.38	-10.72	31.67	43.50	-11.83
393.750	Peak	42.67	-4.64	38.03	46.00	-7.97
653.710	Peak	39.01	-0.11	38.90	46.00	-7.10

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9 FREQUENCY STABILITY

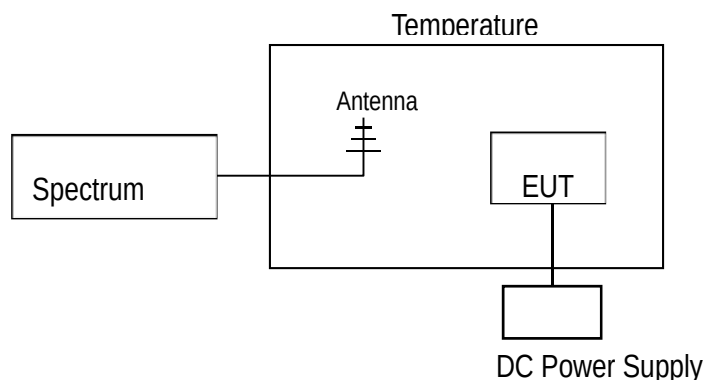
9.1 Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

9.2 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
4. Set SPA Max hold. Mark peak.

9.3 Test SET-UP (Block Diagram of Configuration)



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9.4 Measurement Results

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.5600009	0.00090	+/- 1.356
120	-10	13.5600084	0.00840	+/- 1.356
120	0	13.5599977	-0.00230	+/- 1.356
120	10	13.5599932	-0.00680	+/- 1.356
120	20	13.5600067	0.00670	+/- 1.356
120	30	13.560008	0.00800	+/- 1.356
120	40	13.5599901	-0.00990	+/- 1.356
120	50	13.5600052	0.00520	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.5600001	0.00010	+/- 1.356
120	20	13.5599925	-0.00750	+/- 1.356
102	20	13.5599903	-0.00970	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.5599951	-0.00490	+/- 1.356
120	-10	13.5599962	-0.00380	+/- 1.356
120	0	13.5600009	0.00090	+/- 1.356
120	10	13.560008	0.00800	+/- 1.356
120	20	13.5599925	-0.00750	+/- 1.356
120	30	13.5599907	-0.00930	+/- 1.356
120	40	13.5600035	0.00350	+/- 1.356
120	50	13.5599992	-0.00080	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.5599903	-0.00970	+/- 1.356
120	20	13.5599981	-0.00190	+/- 1.356
102	20	13.5600069	0.00690	+/- 1.356

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5 minutes**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.5599945	-0.00550	+/- 1.356
120	-10	13.5600042	0.00420	+/- 1.356
120	0	13.5600085	0.00850	+/- 1.356
120	10	13.5599924	-0.00760	+/- 1.356
120	20	13.5600056	0.00560	+/- 1.356
120	30	13.5600084	0.00840	+/- 1.356
120	40	13.5600051	0.00510	+/- 1.356
120	50	13.5600023	0.00230	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.5599914	-0.00860	+/- 1.356
120	20	13.5600048	0.00480	+/- 1.356
102	20	13.5599973	-0.00270	+/- 1.356

10 minutes**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.5599966	-0.00340	+/- 1.356
120	-10	13.5599903	-0.00970	+/- 1.356
120	0	13.5600057	0.00570	+/- 1.356
120	10	13.5600017	0.00170	+/- 1.356
120	20	13.5600049	0.00490	+/- 1.356
120	30	13.5600012	0.00120	+/- 1.356
120	40	13.5599966	-0.00340	+/- 1.356
120	50	13.5600052	0.00520	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.5599972	-0.00280	+/- 1.356
120	20	13.5599997	-0.00030	+/- 1.356
102	20	13.5600046	0.00460	+/- 1.356

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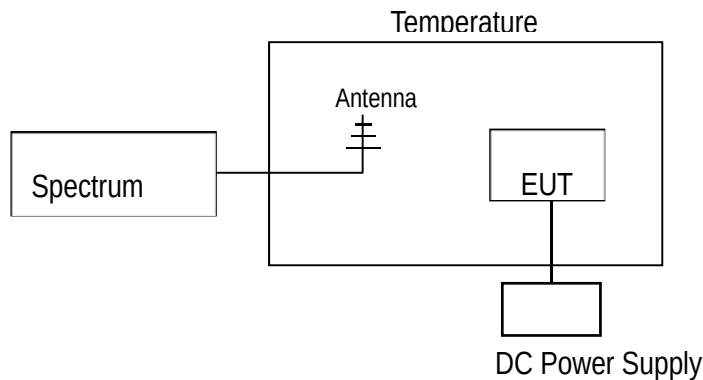
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10 EMISSION BANDWIDTH MEASUREMENT

10.1 Applicable Standard:

The 20 dB bandwidth shall be specified in operating frequency band.

10.2 Test Set-up



10.3 Measurement Procedure

1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
4. Measured the spectrum width with power higher than 20dB below carrier.

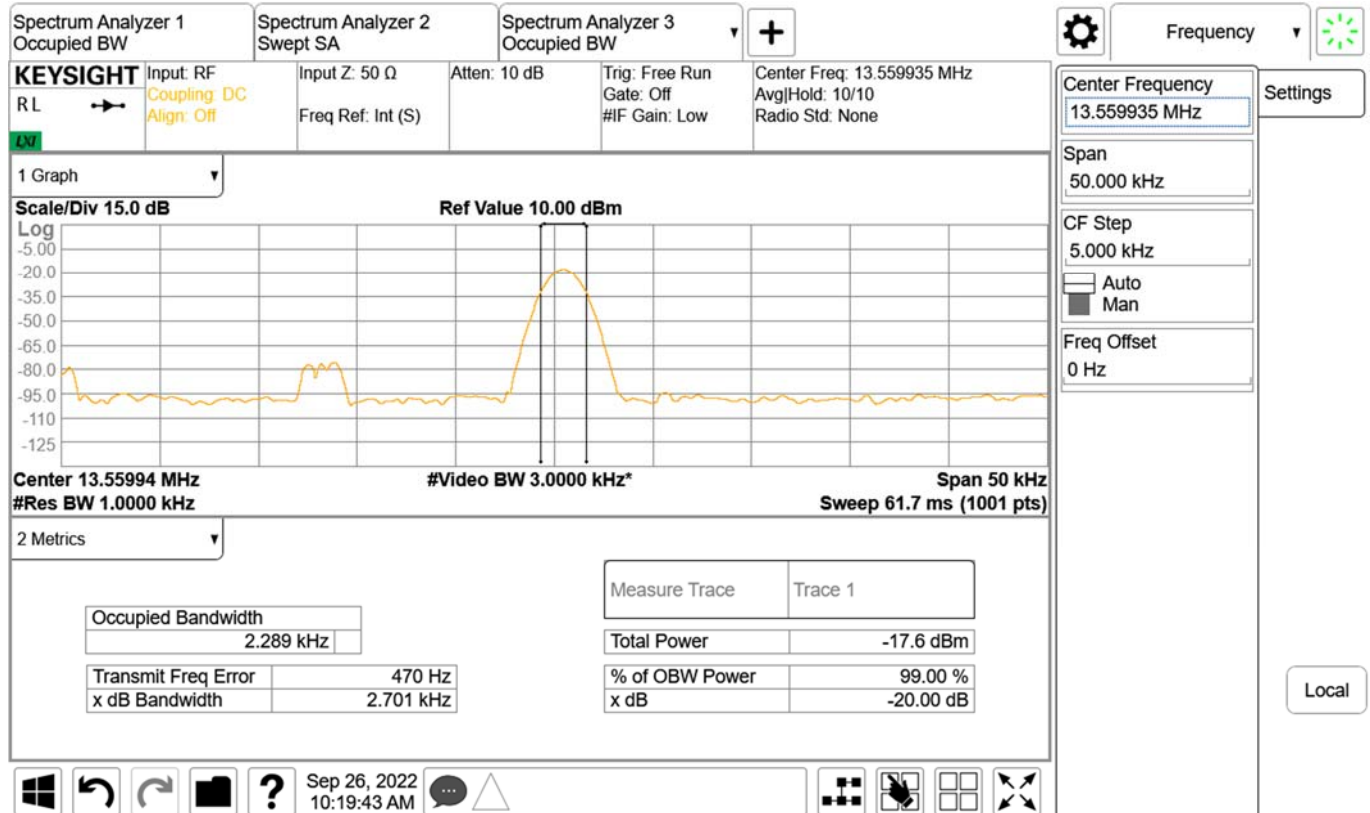
10.4 Measurement Result

FCC				
20dB BW (kHz)		Operation range	Frequency (MHz)	Limit (MHz)
2.701		Low	13.559235	>13.11
		High	13.561585	<14.01

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Bandwidth



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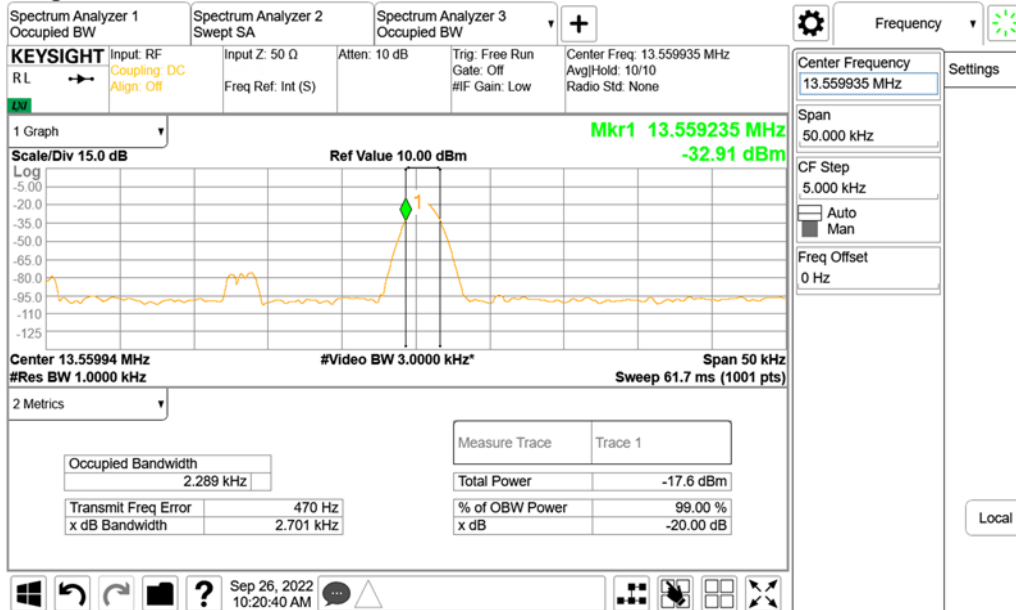
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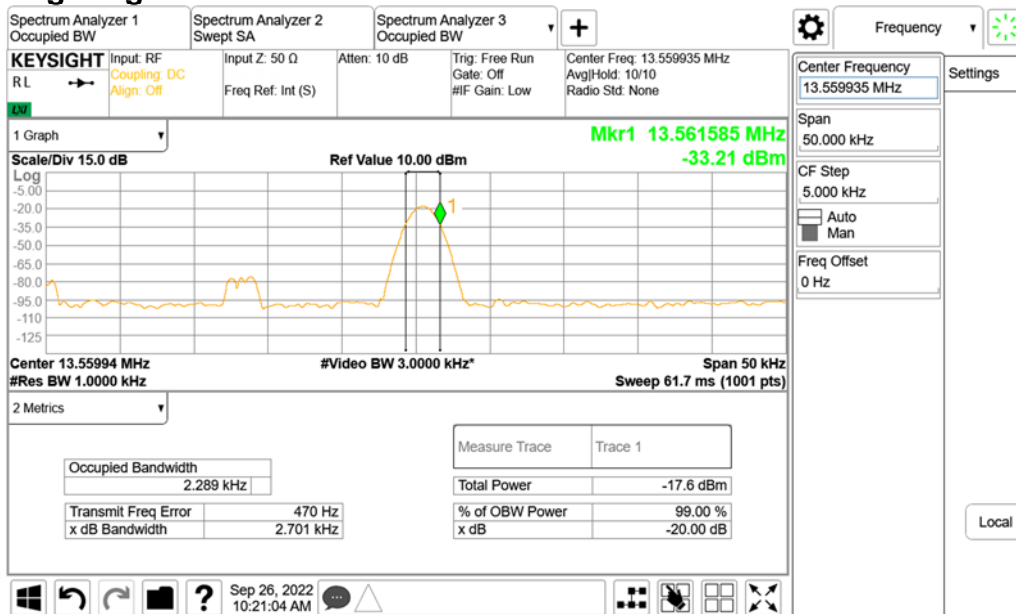
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Member of SGS Group

Operation range low



Operation range High



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11 ANTENNA REQUIREMENT

11.1 Standard Applicable:

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

11.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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