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Report Template Version: V05 Report Template Revision Date: 2021-11-03

Test Report

Report No.: CQASZ20240400702E-03

Applicant: Ultimea Technology (Shenzhen) Limited

Address of Applicant: 20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Poseidon D80 7.1 Channel Dolby Atmos Soundbar

Model No.: U2620

Test Model No.: U2620

Brand Name: ULTIMEA

FCC ID: 2A9OO-U2620S

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2024-04-24

Date of Test: 2024-04-24 to 2024-05-27

Date of Issue: 2024-06-17
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

(Lewis Zhou)

Time Lei

(Timo Lei)

Approved By:

(Alex Wang)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20240400702E-03	Rev.01	Initial report	2024-06-17



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2 Test Summary

Test Item	Test Requirement Test method		Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS





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4 General Information

4.1 Client Information

Applicant:	Ultimea Technology (Shenzhen) Limited
Address of Applicant:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Manufacturer:	Ultimea Technology (Shenzhen) Limited
Address of Manufacturer:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Factory:	Soundlab Technology Co., Ltd.
Address of Factory:	No.2 Baozi Road, Shenzhen Grand Industrial Zone, Pingshan New District, Shenzhen, China

4.2 General Description of EUT

EUT Name:	Poseidon D80 7.1 Channel Dolby Atmos Soundbar			
Model No.:	U2620			
Test Model No.:	U2620			
Trade Mark:	ULTIMEA			
Software Version:	V18X			
Hardware Version:	1.0			
Frequency Range:	5735MHz ~ 5840MHz			
Modulation Type:	OFDM			
Number of Channels:	3			
Sample Type:				
Test Software of EUT:	FCC			
Antenna Type:	Monopole antenna			
Antenna Gain:	Ant1:2.85dBi			
	Ant2:2.85dBi			
Power Supply:	Model No.:FX48U-180300C			
	Input:100-240V~50/60Hz 1.0A			
	Output:18V 3.0A			
	Model No.:SMS-00180300-S38			
	Input:100-240V~50/60Hz 1.5A			
	Output:18V 3.0A 54W			



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Operation Frequency each of channel					
Channel Frequency Channel Frequency Channel Frequency					
1	5735MHz	2	5785MHz	3	5840MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	5735MHz
The Middle channel(CH2)	5785MHz
The Highest channel(CH3)	5840MHz



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4.3 Test Environment and Mode

Operating Environment	
Radiated Emissions:	
Temperature:	27 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
Temperature:	26 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
Radio conducted item to	est (RF Conducted test room):
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009mbar
Test mode:	
Transmitting mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
1	/	1	1	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	,	1	1	1



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4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	5.12dB	(1)
Radiated Emission	Above 1GHz	4.60dB	(1)
Conducted Disturbance	0.15~30MHz	3.34dB	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.7 Test Facility

A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



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4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2023/09/08	2024/09/07
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2023/09/08	2024/09/07
		,,, .	30.0		202 17 007 01
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESPI3	CQA-013	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07

Note:

The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

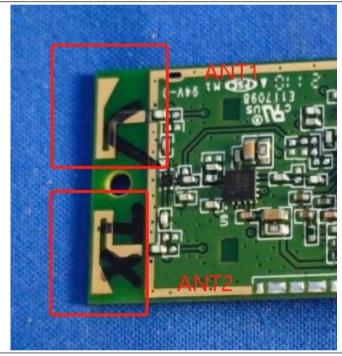
5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

15.203 requirement:

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, 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.

EUT Antenna:



The antenna is Monopole antenna. The best case gain of the antenna is 2.85dBi.





5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:		Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 				
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Mai	Test Receiver		



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Line

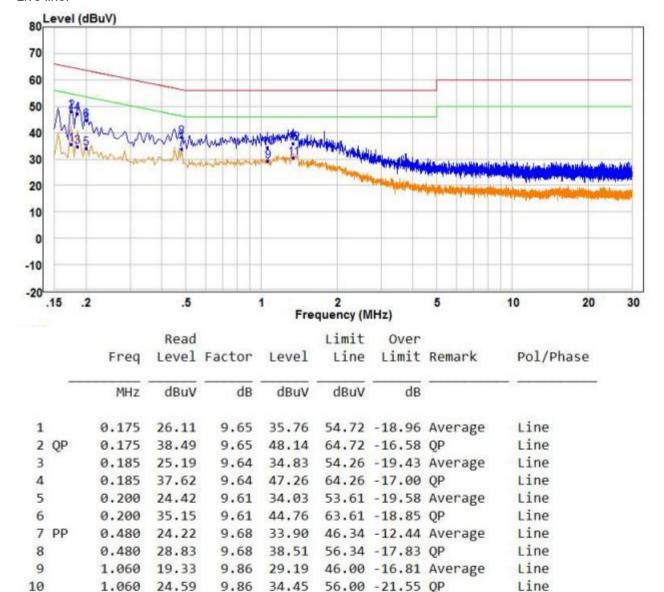
Line

Test Mode:	Transmitting mode.
Final Test Mode:	Transmitting mode. Through Pre-scan, find the Ant1 transmission is the worst case. Only the worst case is recorded in the report.
Test Results:	Pass

FX

Measurement Data:

Live line:



Remark:

1.340

11 12

1. The following Quasi-Peak and Average measurements were performed on the EUT:

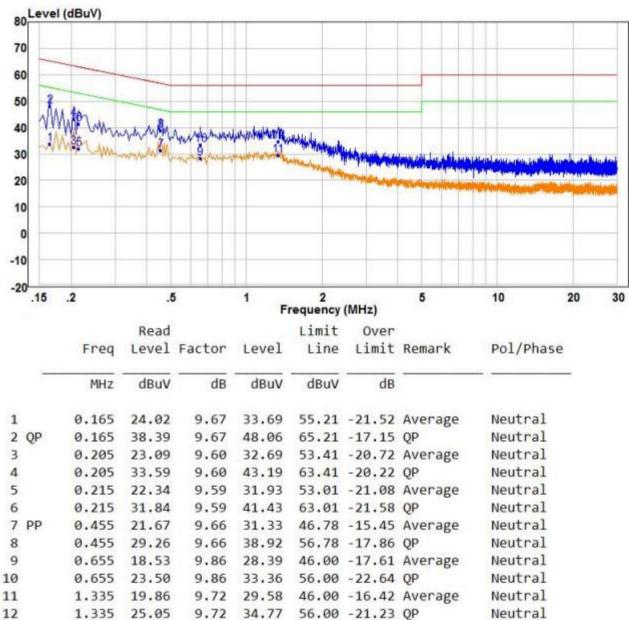
1.340 20.08 10.52 30.60 46.00 -15.40 Average

25.28 10.52 35.80 56.00 -20.20 QP

- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.

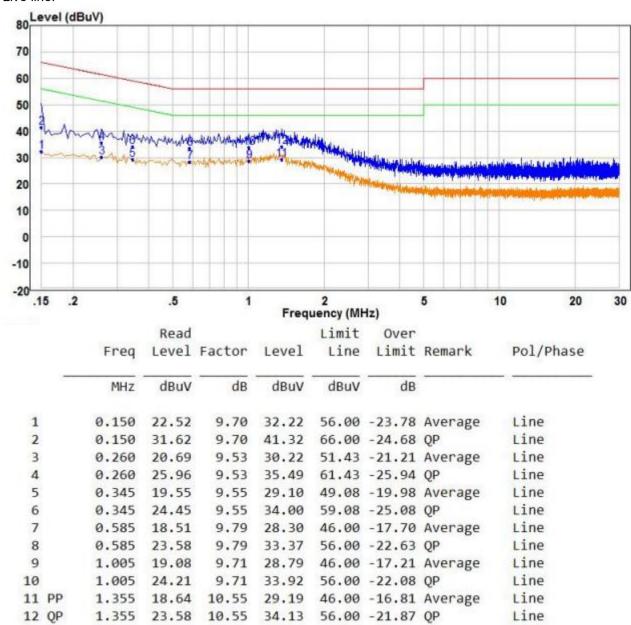




SMS

Measurement Data:

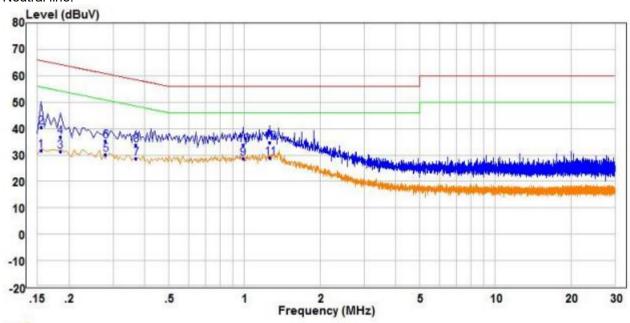
Live line:



Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
_	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.155	21.96	9.69	31.65	55.73	-24.08	Average	Neutral
2	0.155	30.83	9.69	40.52	65.73	-25.21	QP	Neutral
3	0.185	21.75	9.63	31.38	54.26	-22.88	Average	Neutral
4	0.185	27.35	9.63	36.98	64.26	-27.28	QP	Neutral
5	0.280	20.66	9.50	30.16	50.82	-20.66	Average	Neutral
6	0.280	25.79	9.50	35.29	60.82	-25.53	QP	Neutral
7	0.370	19.21	9.57	28.78	48.50	-19.72	Average	Neutral
8	0.370	24.31	9.57	33.88	58.50	-24.62	QP	Neutral
9	0.990	18.95	9.71	28.66	46.00	-17.34	Average	Neutral
10	0.990	24.13	9.71	33.84	56.00	-22.16	QP	Neutral
11 PP	1.265	19.33	9.71	29.04	46.00	-16.96	Average	Neutral
12 QP	1.265	24.94	9.71	34.65	56.00	-21.35	QP	Neutral

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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5.3 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013						
Test Site:	Measurement Distance:	3m (Semi-Anechoi	ic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak		
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average		
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak		
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak		
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak		
	Above 10Uz	Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10Hz	Average		
	Note: For fundamental f value, RMS detect			5MHz, Peak o	detector is for	PK	
Limit: (Spurious Emissions	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark		Measurement distance (m)	
and band edge)	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak 3			
	88MHz-216MHz	150	43.5	Quasi-peak 3			
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz	500	54.0	Average	3		
	Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequence emissions is 20dB above the maximum permitted average emission limical applicable to the equipment under test. This peak limit applies to the total peatemission level radiated by the device. 2) 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 Section 15.209, whichever is the lesser attenuation.						
Limit:	Frequency	Limit (dBu\	//m @3m)	Ren	nark	1	
(Field strength of the		94.				1	
fundamental signal)	2400MHz-2483.5MHz	114		Average Value Peak Value		1	
			114.0		i can value		



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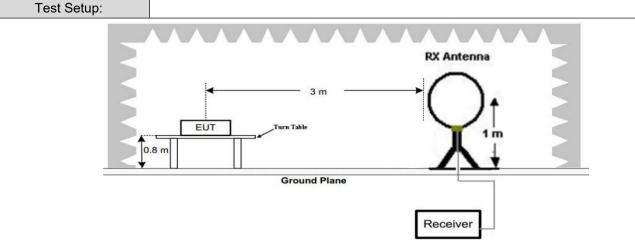
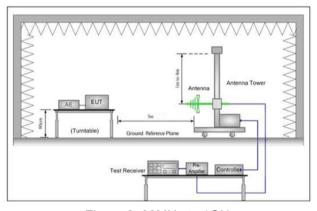


Figure 1. Below 30MHz



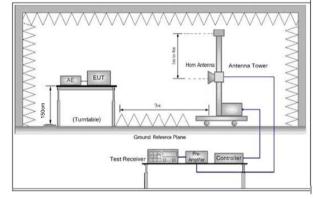


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table



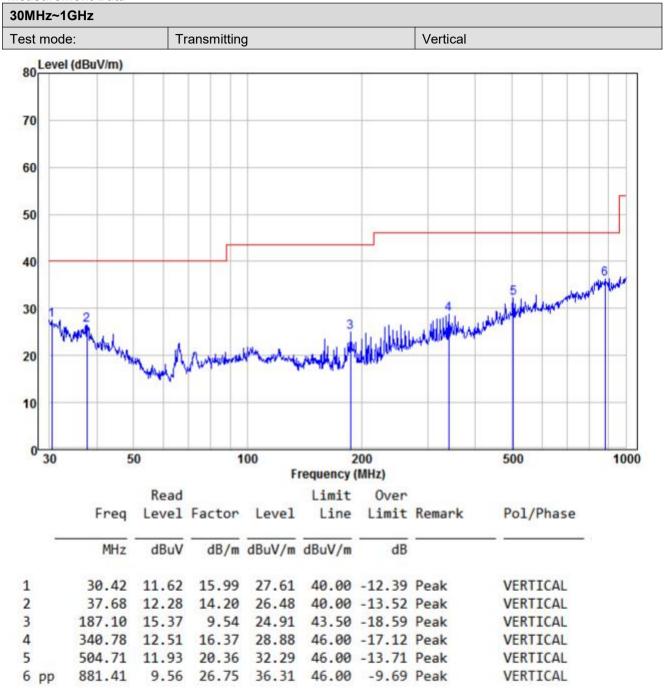
	 was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode.
Final Test Mode:	Transmitting mode. Through Pre-scan, find the Ant1 transmission is the worst case. Only the worst case is recorded in the report.
Test Results:	Pass



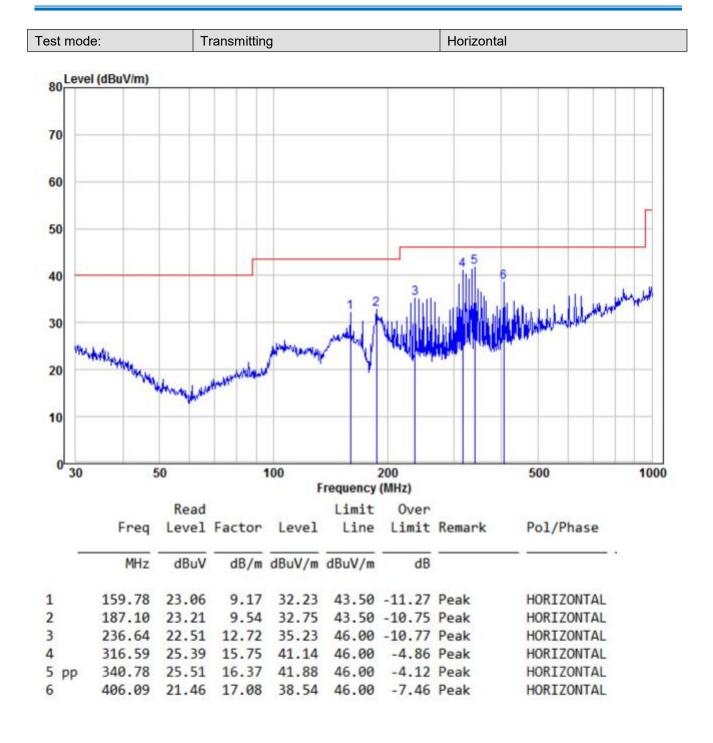


FX

Measurement Data







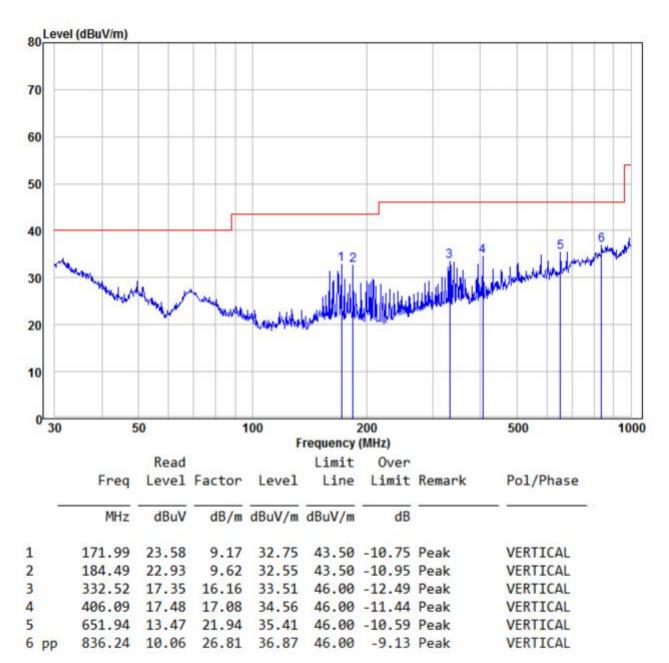




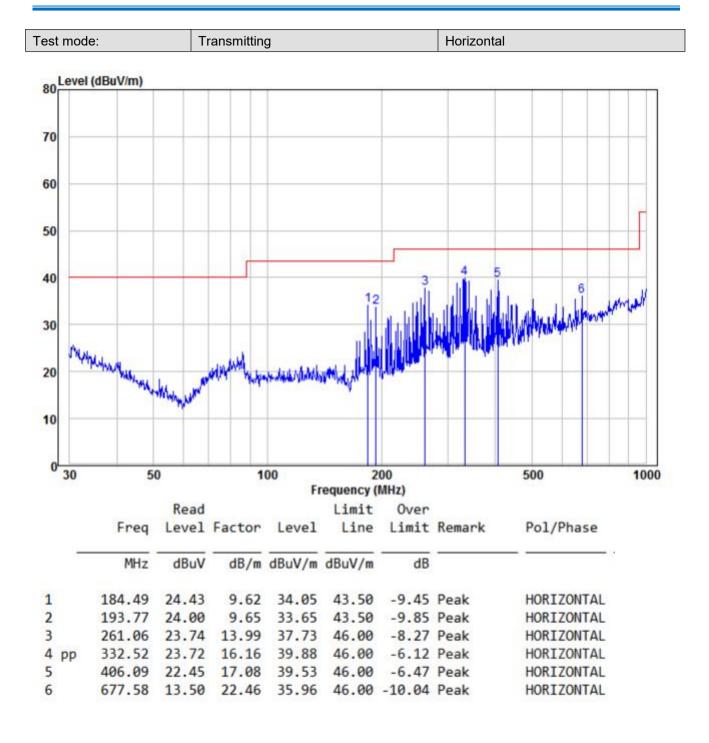
SMS

Measurement Data

30MHz~1GHz		
Test mode:	Transmitting	Vertical









Above 1GHz							
Test mode:		Transmitti	ng	Test chann	Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	45.08	-9.39	35.69	74	-38.31	Peak	Н
5725	46.65	-9.39	37.26	54	-16.74	AVG	Н
5735	100.59	-9.33	91.26	114	-22.74	peak	Н
5735	96.60	-9.33	87.27	94	-6.73	AVG	Н
11470	56.15	-4.28	51.87	74	-22.13	peak	Н
11470	41.56	-4.28	37.28	54	-16.72	AVG	Н
17205	52.50	1.13	53.63	74	-20.37	peak	Н
17205	37.84	1.13	38.97	54	-15.03	AVG	Н
5725	59.74	-9.39	50.35	74	-23.65	peak	V
5725	45.47	-9.39	36.08	54	-17.92	AVG	V
5735	96.38	-9.33	87.05	114	-26.95	peak	V
5735	91.64	-9.33	82.31	94	-11.69	AVG	V
11470	54.92	-4.28	50.64	74	-23.36	peak	V
11470	42.68	-4.28	38.40	54	-15.60	AVG	V
17205	51.78	1.13	52.91	74	-21.09	peak	V
17205	36.25	1.13	37.38	54	-16.62	AVG	V



Test mode:		Transmitti	ng	Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5785	100.00	-9.37	90.63	114	-23.37	peak	Н
5785	97.26	-9.37	87.89	94	-6.11	AVG	Н
11570	55.51	-4.14	51.37	74	-22.63	peak	Н
11570	41.82	-4.14	37.68	54	-16.32	AVG	Н
17355	51.04	0.56	51.60	74	-22.40	peak	Н
17355	36.77	0.56	37.33	54	-16.67	AVG	Н
5785	95.78	-9.36	86.42	114	-27.58	peak	V
5785	94.32	-9.36	84.96	94	-9.04	AVG	V
11570	55.37	-4.14	51.23	74	-22.77	peak	V
11570	41.69	-4.14	37.55	54	-16.45	AVG	V
17355	52.11	0.56	52.67	74	-21.33	peak	V
17355	36.62	0.56	37.18	54	-16.82	AVG	V



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Test mode:		Transmitti	ng	Test chann	nel:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5840	97.72	-9.23	88.49	114	-25.51	peak	н
5840	95.77	-9.23	86.54	94	-7.46	AVG	Н
11680	61.74	-9.29	52.45	74	-21.55	peak	Н
11680	43.37	-9.29	34.08	54	-19.92	AVG	Н
17520	57.18	-4.03	53.15	74	-20.85	peak	Н
17520	41.49	-4.03	37.46	54	-16.54	AVG	Н
5840	96.52	-9.23	87.29	114	-26.71	peak	V
5840	93.35	-9.23	84.12	94	-9.88	AVG	V
11680	60.06	-9.29	50.77	74	-23.23	peak	V
11680	43.46	-9.29	34.17	54	-19.83	AVG	V
17520	56.56	-4.03	52.53	74	-21.47	peak	V
17520	43.03	-4.03	39.00	54	-15.00	AVG	V

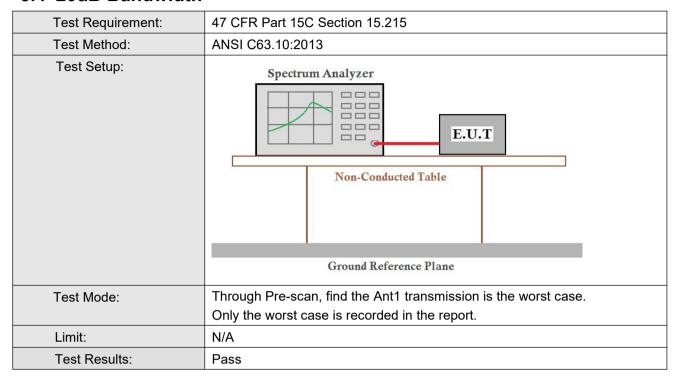
Remark

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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5.4 20dB Bandwidth



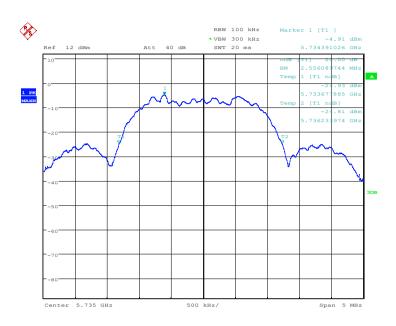
Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.556	Pass
Middle	2.548	Pass
Highest	2.548	Pass



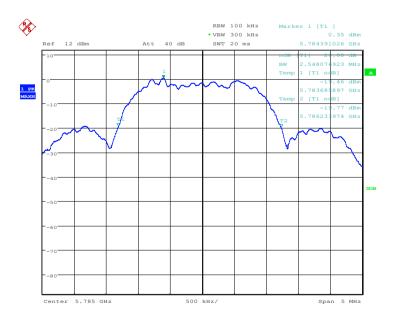
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Test plot as follows: Test channel: Lowest



Date: 16.MAY.2024 11:57:28

Test channel: Middle

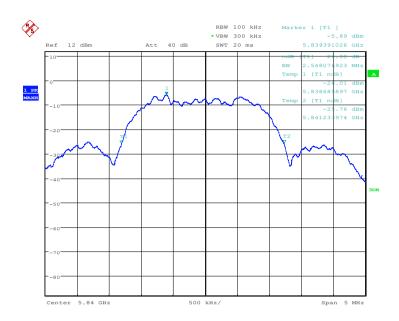


Date: 16.MAY.2024 11:21:27



Report No.:CQASZ20240400702E-03

Test channel: Highest



Date: 16.MAY.2024 11:48:25



6 Photographs

6.1 Radiated Emission Test Setup









6.2 Conducted Emission Test Setup





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6.3 EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20240400702E-01.

*** END OF REPORT ***