



FCC Report (Bluetooth)

Product Name	:	Waterproof Vehicle Head Unit			
Trade mark	:	NavAtlas			
Model No.	:	NA30C			
FCC ID	:	2AFXA-NA30C			
Report Number	:	BLA-EMC-201906-A10-01			
Date of sample receipt	:	October 31, 2019			
Date of Test	:	October 31, 2019–November 6, 2019			
Date of Issue	:	November 12, 2019			
Test standard	: FCC CFR Title 47 Part 15 Subpart C Section				
		15.247			
Test result	:	PASS			

Prepared for:

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Prepared by:

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Review by: Sweet . lian zason Approved by: Emen - Li ices (She Date: Novem

Compiled by:





2 Version

Version No.	Date	Description
00	November 12, 2019	Original

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

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5 General Information

5.1 General Description of EUT

Product Name:	Waterproof Vehicle Head Unit			
Model No.:	NA30C			
Test Model No.:	NA30C			
Remark: All above models are The differences are model na	e identical in the same PCB layout, interior structure and electrical circuits. me for commercial purpose.			
Serial No.:	NSD0001001			
Sample(s) Status	Engineer sample			
Hardware:	VER:04 20190814			
Software:	1.909.24A			
Operation Frequency:	2402MHz-2480MHz			
Channel numbers:	79			
Channel separation:	1MHz			
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK			
Antenna Type:	PCB Antenna			
Antenna gain:	2.0dBi			
Power supply:	DC 12V			

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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

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5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: Full battery is used during all test, DH1, DH3, DH5 all have been tested, only worse case is reported.

5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC — Designation No.: CN1252

BlueAsia of Technical Services(Shenzhen) Co., Ltd 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 files. Designation CN1252.

•ISED — CAB identifier No.: CN0028

BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028

5.4 Test Location

All tests were performed at:

All tests were performed at:

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No tests were sub-contracted.

5.5 Other Information Requested by the Customer

None.

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number
UGREEN	Adapter	CD112	20358
Lenovo	Notebook computer	E470C	PF-10FB5C

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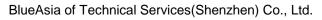
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6 Test Instruments list

Radi	Radiated Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m SAC	SKET	9m*6 m*6m	966	06-10-2018	06-09-2023	
2	Broadband Antenna	SCHWARZBECK	VULB9168	00836 P:00227	07-14-2019	07-13-2020	
3	Horn Antenna	SCHWARZBECK	9120D	01892 P:00331	07-14-2019	07-13-2020	
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A	
5	Pre-amplifier	SKET	N/A	N/A	07-19-2019	07-18-2020	
6	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2019	05-23-2020	
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	03-21-2019	03-20-2020	
8	Controller	SKET	N/A	N/A	N/A	N/A	
9	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2019	05-23-2020	
10	Signal Generator	Agilent	E8257D	MY44320250	05-24-2019	05-23-2020	
11	Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A	
12	Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A	
13	Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A	



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Conduc	Conducted Emission						
ltem	Test Equipment	Manufacturer	Model No.	Model No. Serial No.		Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESPI3		101082	06-10-2019	06-09-2020
2	LISN	CHASE	MN2050D		1447	12-18-2018	12-17-2019
3	LISN	Rohde & Schwarz	ENV216		3560.6550.15	07-19-2019	07-18-2020
4	EMI Test Software	EZ	EZ		N/A	N/A	N/A
5	Temperature Humidity Chamber	Mingle	TH101B		N/A	07-19-2019	07-18-2020
6	Coaxial Cable	BlueAsia	BLA-XC-05		N/A	N/A	N/A
RF Con	ducted Test:						
ltem	Test Equipment	Manufacturer	Model No.		Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Spectrum Analyzer	Agilent	N9030A	М	Y50510123	05-24-2019	05-23-2020
2	Spectrum analyzer	Rohde & Schwarz	FSP40		100817	05-24-2019	05-23-2020
3	MXA Signal Analyzer	Agilent	N9020A	М	Y49100060	12-18-2018	12-17-2019
4	Vector Signal Generator	Agilent	N5182A	м	Y49060650	12-18-2018	12-17-2019
5	Vector Signal Generator	Agilent	E4438C	М	Y45092582	05-24-2019	05-23-2020
6	Signal Generator	Agilent	E8257D	Μ	Y44320250	05-24-2019	05-23-2020
7	Power Sensor	D.A.R.E	RPR3006W	171	00015SNO27	05-24-2019	05-23-2020
8	Power Sensor	D.A.R.E	RPR3006W	171	00015SNO28	05-24-2019	05-23-2020
9	DC Power Supply	LODESTAR	LP305DE	N/A		07-19-2019	07-18-2020
10	Temperature Humidity Chamber	Mingle	TH101B	N/A		07-19-2019	07-18-2020

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7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)					
15.203 requirement:						
responsible party shall be us antenna that uses a unique of that a broken antenna can be connector is prohibited. 15.247(c) (1)(i) requirement (i) Systems operating in the 2	be designed to ensure that no antenna other than that furnished by the ed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit so e replaced by the user, but the use of a standard antenna jack or electrical t: 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point smitting antennas with directional gain greater than 6dBi provided the					
maximum conducted output directional gain of the antenr	power of the intentional radiator is reduced by 1 dB for every 3 dB that the na exceeds 6dBi.					
E.U.T Antenna:						
	the best case gain of the antenna is 2.0dBi					

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Test Requirement: FCC Part15 C Section 15.207 Test Method: ANSI C63.10:2013 Test Frequency Range: 150KHz to 30MHz Class / Severity: Class B RBW=9KHz, VBW=30KHz, Sweep time=auto Receiver setup: Limit (dBuV) Limit: 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 of the frequency. Test setup: Reference Plane LISN LISN 40cm 80cm Filter -— AC power ΔΠΧ E.U.T Equipment EMI Receiver Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m Test procedure: 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. **Test Instruments:** Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test results: N/A

7.2 Conducted Emissions

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Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2013		
Limit:	21dBm(for GFSK),21dBm(for EDR)		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

7.3 Conducted Peak Output Power

Measurement Data

Reference to the AppendixC: Maximum conducted output power

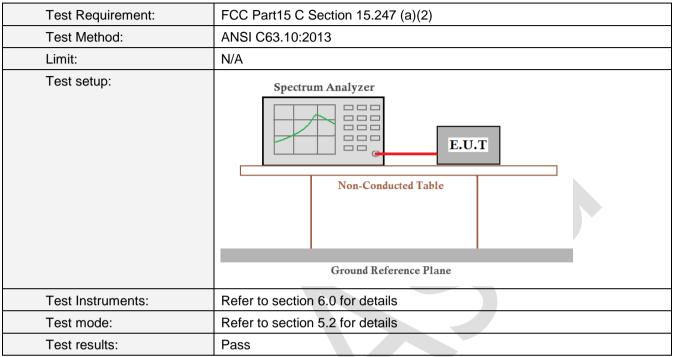
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7.4 20dB Emission Bandwidth



Measurement Data

Reference to the AppendixA: 20dBEmission Bandwidth

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7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak				
Limit:	GFSK & Pi/4QPSK & 8-DPSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data

Reference to the AppendixD: Carrier frequency separation

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Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak				
Limit:	15 channels				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

7.6 Hopping Channel Number

Measurement Data:

Reference to the AppendixF: Number of hopping channels

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7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak				
Limit:	0.4 Second				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data

Reference to the AppendixE: Time of occupancy

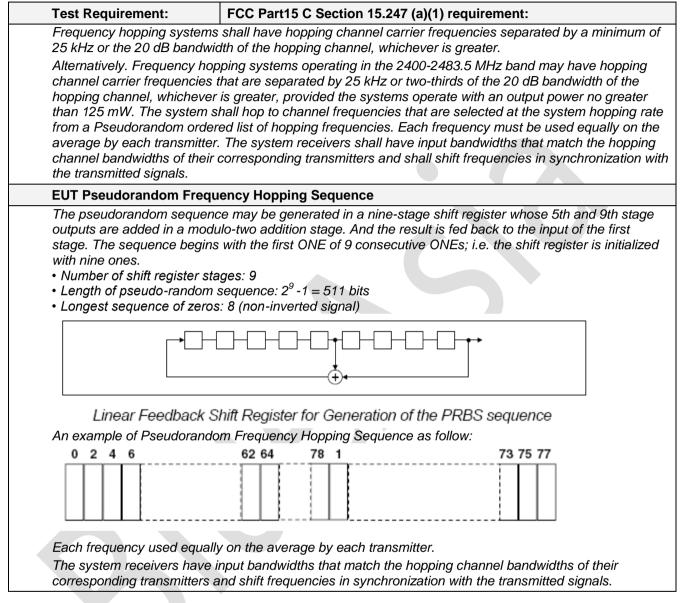
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7.8 Pseudorandom Frequency Hopping Sequence



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7.9 Band Edge

7.9.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data

Reference to the AppendixG:Band edge measurements

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7.9.2 Radiated Emission Method

Test Requirement: FCC Part15 C Section 15.209 and 15.205 Test Method: ANSI C63.10.2013 Test Frequency Range: All restriction band have been tested, and 2310MHz to 2390MHz, 2483.5MHz to 2500MHz band is the worse case Test site: Measurement Distance: 3n Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 30Hz Peak Value Limit: Frequency Limit (BuV/m 20m) Remark Above 1GHz 54.00 Average Value Above 1GHz 54.00 Average Value Test setup: Immuteable frequency Limit (BuV/m 20m) Remark Test setup: Immuteable frequency Second frequency Commuteable frequency Limit (BuV/m 20m) Remark Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. Reference-receiving antenna, which was mounted on the top of a variable-height antenna tower. Test Procedure: 1. The EUT was set3 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. The tot c	7.9.2 Radiated Emission W					
Test Frequency Range: All restriction band have been tested, and 2310MHz to 2390MHz, 2483.5MHz to 2500MHz band is the worse case Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Average Value Limit: Frequency Limit (BUV/m @3m) Remark Above 1GHz Frequency Limit (BUV/m @3m) Remark Above 1GHz 74.00 Peak Value Test setup: Image: State setup: Image: State setup: Image: State setup: Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was placed on the top of a variable-height antenna tower. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned from 0 degrees to 360 degrees to find the measumu with Maximum Hold Mode.	Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
2483.5MHz to 2500MHz band is the worse case Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value Limit: Frequency Limit (BUV/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Image: setup: Image: setup: Image: setup: setup: Image: setup: setup: Test setup: Image: setup: Image: setup: s	Test Method:	ANSI C63.10:2013				
Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value Limit: Frequency Limit (dBuV/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Frequency Limit (dBuV/m @3m) Remark Test setup: Frequency Limit (dBuV/m @3m) Remark Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was sel 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and then totatable was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specifie Bandwidh with Maximum Hold Mode. 6. 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 leUT woold be reported. Otherwise the emi	Test Frequency Range:					2390MHz,
Above 1GHz Peak 1MHz 3MHz Peak Value Limit: Frequency Limit (BuV/m @3m) Remark Above 1GHz 54.00 Average Value Above 1GHz 74.00 Peak Value Test setup: Image: Construct of the setup of the setu	Test site:	Measurement D	istance: 3m			
Above 1GHz Peak 1MHz 10Hz Average Value Limit: Frequency Limit (dBuV/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Image: Control of the setup of th	Receiver setup:	Frequency	Detector		VBW	
Limit: Peak IMH2 IMH2 Average Value Frequency Limit (BuV/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Immediate (BuV/m @3m) Remark Immediate (BuV/m @3m) Remark Immediate (BuV/m @3m) Remark Test setup: Immediate (BuV/m @3m) Remark Immediate (BuV/m @3m) Remark Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. Remark and the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specifie Bandwidth with Maximum Hold Mode. Immediate working polarizations of the antenna work alues of the EUT would be reported. Otherwise the emissions that did not have 100d margin would be reported. Otherwise the		Above 1GHz				
Above 1GHz 54.00 Average Value Test setup: Image: Control of the control of						
Above IGH2 74.00 Peak Value Test setup: Image: Comparison of the setup of the	Limit:	Freque	ency			
Test setup: Image: EUT image: E		Above 1	GHz			
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specifie Bandwidth with Maximum Hold Mode. 6. 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 10d margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details	Test setup:			14.0	0	
ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. 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.4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specifie Bandwidth with Maximum Hold Mode.6. 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 10d margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.Test Instruments:Refer to section 6.0 for detailsTest mode:Refer to section 5.2 for details				< 1m 4m >		
Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details	Test Procedure:	 ground at a 3 determine the determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to dethorizontal an measurement 4. For each sus and then the and the rota to maximum reas 5. The test-rece Bandwidth with the emission limit specified EUT would b margin would 	B meter cambe e position of t s set 3 meters ch was moun height is varie termine the m d vertical pola it. spected emiss antenna was table was turn ading. eiver system v ith Maximum on level of the d, then testing e reported. O	er. The table whe highest rad s away from the ted on the top ed from one maximum value arizations of the tuned to heigh hed from 0 deg was set to Pea Hold Mode. EUT in peak could be stop therwise the e one by one us	vas rotated liation. le interferen of a variable heter to four e of the field e antenna a was arrange hts from 1 m grees to 360 k Detect Fu mode was a oped and th missions th sing peak, o	360 degrees to nce-receiving le-height antenna r meters above the d strength. Both are set to make the ed to its worst case neter to 4 meters 0 degrees to find the unction and Specified 10dB lower than the e peak values of the nat did not have 10dB quasi-peak or
	Test Instruments:	Refer to section	6.0 for detail	S		
Test results: Pass	Test mode:	Refer to section 5.2 for details				
	Test results:	Pass				

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Remark:

1. During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

Which it is	which it is worse case.						
Test channel:		Lowest					
Peak value:	Peak value:						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2310.00	53.46	-14.56	38.90	74.00	-35.10	Horizontal	
2390.00	53.71	-14.19	39.52	74.00	-34.48	Horizontal	
2310.00	55.23	-14.85	40.38	74.00	-33.62	Vertical	
2390.00	61.08	-14.52	46.56	74.00	-27.44	Vertical	
Average value):	•	•				
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2310.00	45.03	-14.56	30.47	54.00	-23.53	Horizontal	
2390.00	44.47	-14.19	30.28	54.00	-23.72	Horizontal	
2310.00	44.83	-14.85	29.98	54.00	-24.02	Vertical	
2390.00	46.59	-14.52	32.07	54.00	-21.93	Vertical	

Test channel:	Highest					
Peak value:						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	56.17	-13.66	42.51	74.00	-31.49	Horizontal
2500.00	58.62	-13.57	45.05	74.00	-28.95	Horizontal
2483.50	56.26	-14.05	42.21	74.00	-31.79	Vertical
2500.00	60.12	-13.97	46.15	74.00	-27.85	Vertical
Average value						
		Correct				

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	45.53	-13.66	31.87	54.00	-22.13	Horizontal
2500.00	45.49	-13.57	31.92	54.00	-22.08	Horizontal
2483.50	45.07	-14.05	31.02	54.00	-22.98	Vertical
2500.00	44.84	-13.97	30.87	54.00	-23.13	Vertical

Remark:

1. Final Level =Receiver Read level + Correct factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Correct factor= Antenna Factor + Cable Loss – Preamplifier Factor

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7.10 Spurious Emission

7.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Measurement Data

Reference to the AppendixH:Conducted SpuriousEmission

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7.10.2 Radiated Emission Method

Test Pequirement:	ECC Dort15 C Socti	on 15	200				
Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9kHz to 25GHz						
Test site:	Measurement Distar	nce: 3	ßm				
Receiver setup:	Frequency	D	etector	RB	N	VBW	Value
	9KHz-150KHz	Qu	lasi-peak	200	Hz	600Hz	Quasi-peak
	150KHz-30MHz	Qu	asi-peak	9Kł	Ηz	30KHz	Quasi-peak
	30MHz-1GHz	Qu	asi-peak	120k	Hz	300KH:	z Quasi-peak
			Peak	1M	Ηz	3MHz	Peak
	Above 1GHz		Peak	1MI	Ηz	10Hz	Average
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Value		Measurement Distance
	0.009MHz-0.490M	IHz	2400/F(KHz)		QP		300m
	0.490MHz-1.705M	IHz	24000/F(KHz)			QP	30m
	1.705MHz-30MH	lz	30			QP	30m
	30MHz-88MHz		100			QP	
	88MHz-216MHz	z	150			QP	
	216MHz-960MH	z	200		QP		3m
	960MHz-1GHz 500		QP		300		
	Above 1GHz 500 5000		Av	rerage			
			5000		Peak		
Limit: (band edge)	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.						

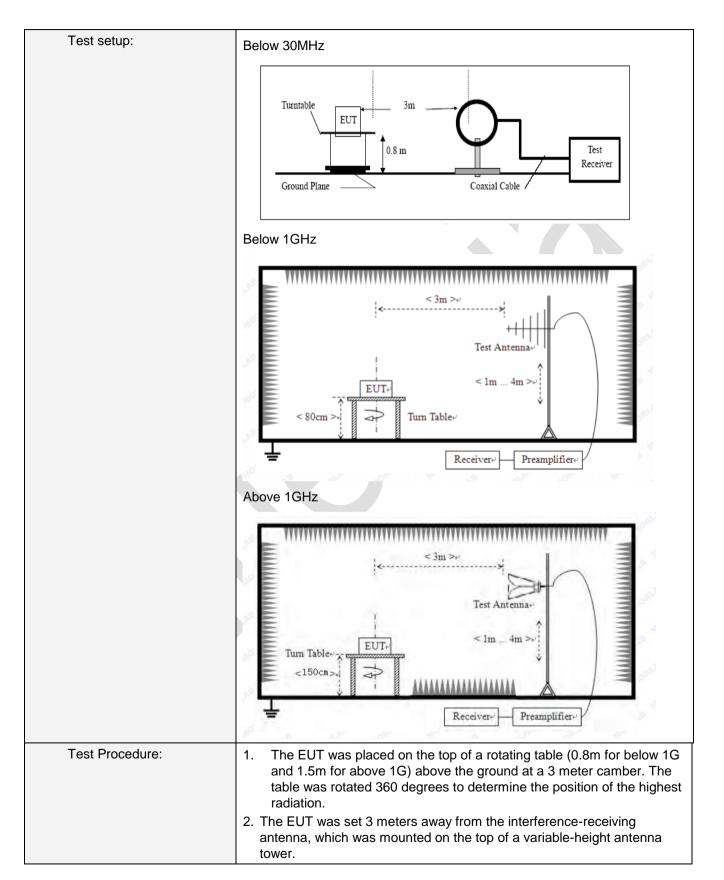
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	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. 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 re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Remark:

- 1. During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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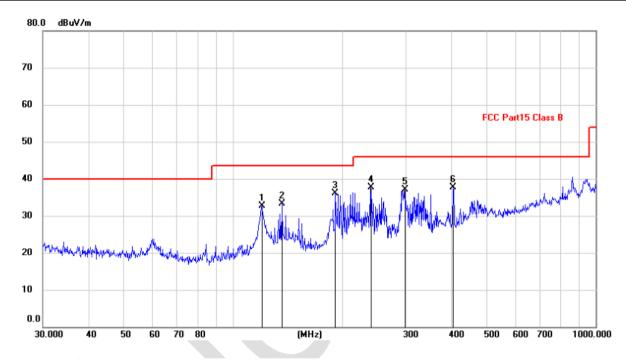
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Below 1GHz

EUT:	Waterproof Vehicle Head Unit	Polarziation:	Horizontal
Model:	NA30C	Power Source:	DC12 V
Mode:	BT mode	Test by:	Eason
Temp./Hum.(%H):	26℃/60%RH		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		120.2766	20.07	12.58	32.65	43.50	-10.85	QP
2		136.4598	20.27	13.07	33.34	43.50	-10.16	QP
3	*	191.7450	25.77	10.31	36.08	43.50	-7.42	QP
4		239.9874	24.76	12.89	37.65	46.00	-8.35	QP
5		297.2241	23.43	13.58	37.01	46.00	-8.99	QP
6		404.6665	20.74	16.97	37.71	46.00	-8.29	QP

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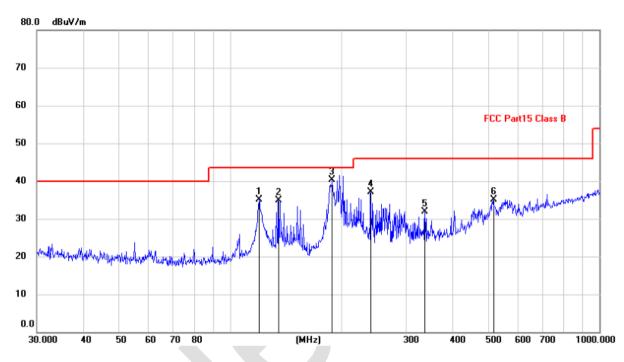
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EUT:	Waterproof Vehicle Head Unit	Polarziation:	Vertical
Model:	NA30C	Power Source:	DC12 V
Mode:	BT mode	Test by:	Eason
Temp./Hum.(%H):	26℃/60%RH		



-	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		119.8555	22.60	12.56	35.16	43.50	-8.34	QP
	2		135.0319	21.97	13.03	35.00	43.50	-8.50	QP
-	3	*	189.0742	29.83	10.45	40.28	43.50	-3.22	QP
-	4		239.9874	24.14	12.89	37.03	46.00	-8.97	QP
-	5		337.2155	16.96	14.87	31.83	46.00	-14.17	QP
	6		515.4374	15.85	19.22	35.07	46.00	-10.93	QP

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Above 1GHz

Test channel: Lowest Peak value: Over Level Correct factor Frequency Read Level Limit Line Limit Polarization (MHz) (dBuV) (dBuV/m) (dB/m) (dBuV/m) (dB) 4804.00 57.45 -7.43 50.02 74.00 -23.98 Vertical Vertical 7206.00 58.62 -2.42 56.20 74.00 -17.80 9608.00 59.47 -2.38 57.09 74.00 -16.91 Vertical 12010.00 * 74.00 Vertical * 74.00 14412.00 Vertical 4804.00 59.87 -7.43 52.44 74.00 -21.56 Horizontal 74.00 7206.00 58.22 -2.42 55.80 -18.20 Horizontal 9608.00 58.07 -2.38 55.69 74.00 -18.31 Horizontal * 12010.00 74.00 Horizontal * 14412.00 74.00 Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	45.43	-7.43	38.00	54.00	-16.00	Vertical
7206.00	46.28	-2.42	43.86	54.00	-10.14	Vertical
9608.00	46.19	-2.38	43.81	54.00	-10.19	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	48.14	-7.43	40.71	54.00	-13.29	Horizontal
7206.00	47.62	-2.42	45.20	54.00	-8.80	Horizontal
9608.00	48.18	-2.38	45.80	54.00	-8.20	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test channe	l:		Mid	dle		
Peak value:			·			
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/	/m) Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	56.34	-7.49	48.85	74.00	-25.15	Vertical
7323.00	58.46	-2.40	56.05	74.00	-17.94	Vertical
9764.00	58.85	-2.38	56.47	74.00	-17.53	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	59.20	-7.49	51.71	74.00	-22.29	Horizontal
7323.00	58.96	-2.40	56.56	74.00	-17.44	Horizontal
9764.00	59.74	-2.38	57.36	74.00	-16.64	Horizontal
12205.00	*			74.00		Horizontal
14646.00	*			74.00		Horizontal
Average val	ue:					
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	47.01	-7.49	39.52	54.00	-14.48	Vertical
7323.00	48.26	-2.40	45.86	54.00	-8.14	Vertical

45.39

40.64

44.84

45.37

54.00

54.00

54.00

54.00

54.00

54.00

54.00

54.00

-8.61

-13.36

-9.16

-8.63

Vertical

Vertical

Vertical

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Remark:

9764.00

12205.00

14646.00

4882.00

7323.00

9764.00

12205.00

14646.00

1. Final Level =Receiver Read level + Correct facto

47.77

*

*

48.13

47.24

47.75

*

*

- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.

-2.38

-7.49

-2.40

-2.38

4. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test channel:			Highest			
Peak value:						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	56.06	-7.47	48.59	74.00	-25.41	Vertical
7440.00	58.16	-2.45	55.71	74.00	-18.29	Vertical
9920.00	58.85	-2.37	56.48	74.00	-17.52	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	55.74	-7.47	48.27	74.00	-25.73	Horizontal
7440.00	58.46	-2.45	56.01	74.00	-17.99	Horizontal
9920.00	58.87	-2.37	56.50	74.00	-17.50	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

/monago vale						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	47.07	-7.47	39.60	54.00	-14.40	Vertical
7440.00	48.13	-2.45	45.68	54.00	-8.32	Vertical
9920.00	47.26	-2.37	44.89	54.00	-9.11	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	48.08	-7.47	40.61	54.00	-13.39	Horizontal
7440.00	48.16	-2.45	45.71	54.00	-8.29	Horizontal
9920.00	47.77	-2.37	45.40	54.00	-8.60	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1. Final Level =Receiver Read level + Correct factor

2. Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor

3. "*", means this data is the too weak instrument of signal is unable to test.

4. The emission levels of other frequencies are very lower than the limit and not show in test report.

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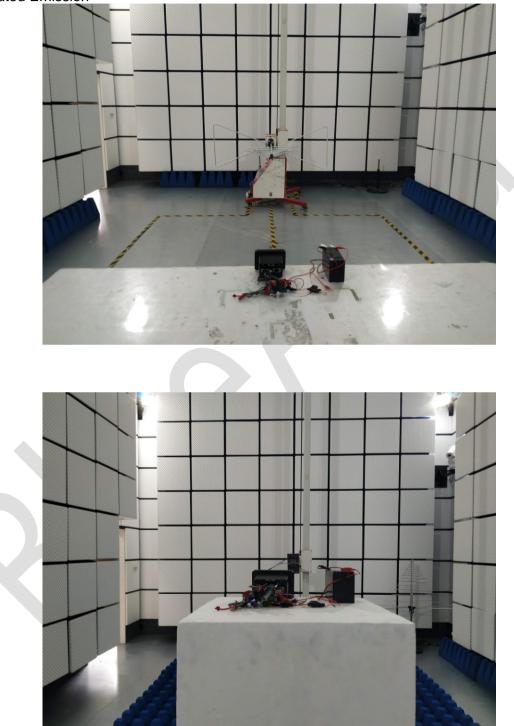
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8 Test Setup Photo

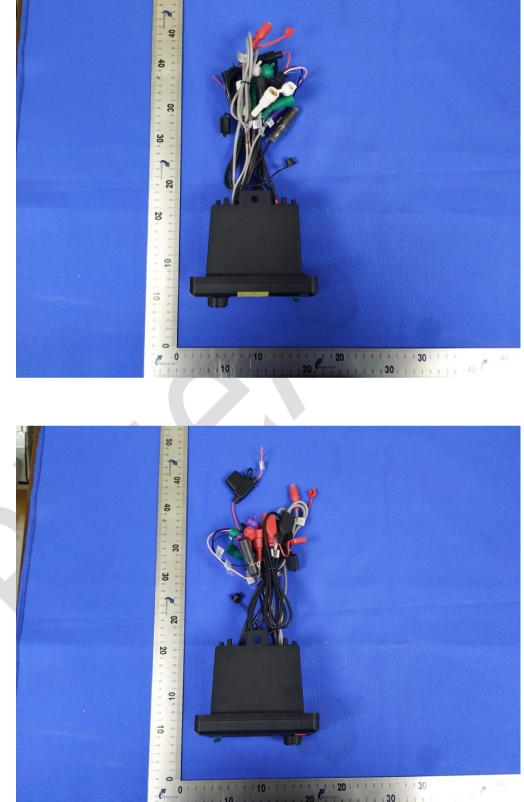
Radiated Emission





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9 EUT Constructional Details



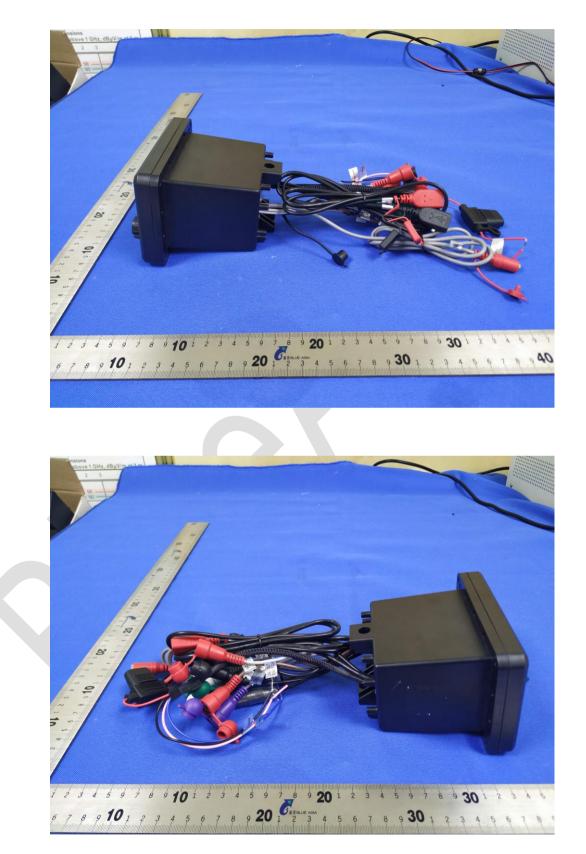
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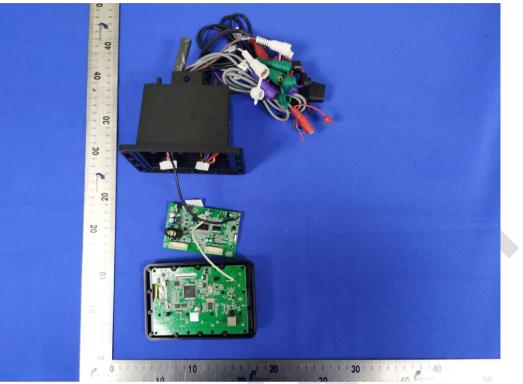


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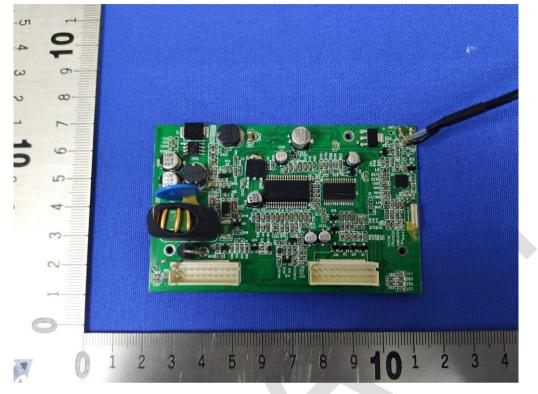


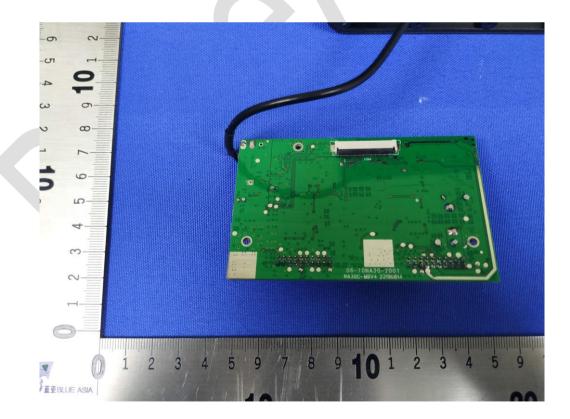
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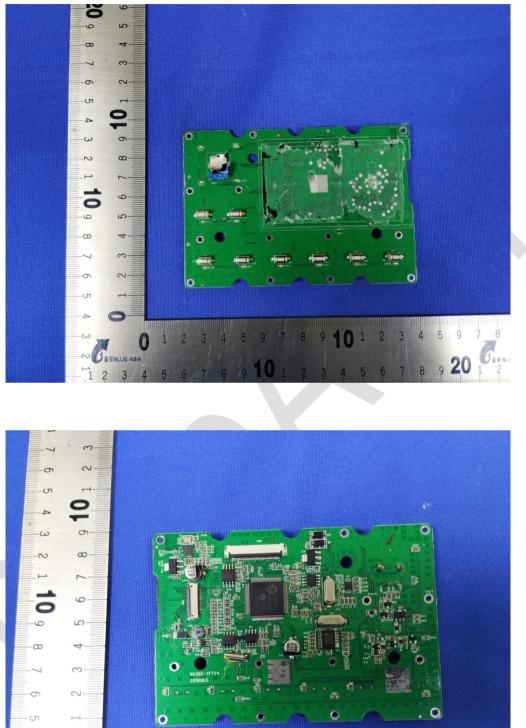


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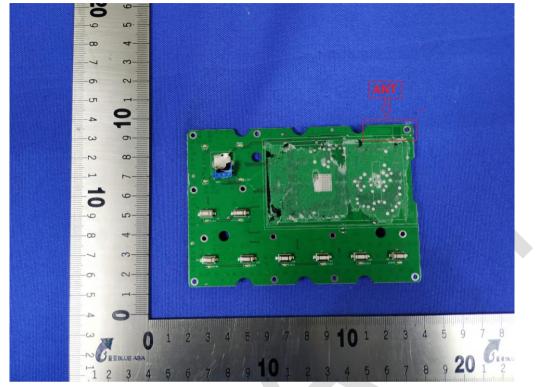


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10 Appendix

Refer to the following attachments.

*** End of Report ***

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 BlueAsia, this report can't be reproduced except in full.

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AppendixA: 20dBEmission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.098	2401.424	2402.522		PASS
		2441	1.101	2440.415	2441.516		PASS
		2480	1.098	2479.415	2480.513		PASS
2DH1	Ant1	2402	1.353	2401.277	2402.630		PASS
		2441	1.359	2440.274	2441.633		PASS
		2480	1.356	2479.274	2480.630		PASS
3DH1	Ant1	2402	1.344	2401.292	2402.636		PASS
		2441	1.350	2440.286	2441.636		PASS
		2480	1.347	2479.289	2480.636		PASS

Test Graphs









AppendixC: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	5.65	<=20.97	PASS
		2441	7.09	<=20.97	PASS
		2480	6.92	<=20.97	PASS
2DH1	Ant1	2402	3.45	<=20.97	PASS
		2441	5.12	<=20.97	PASS
		2480	4.79	<=20.97	PASS
	Ant1	2402	3.87	<=20.97	PASS
3DH1		2441	5.48	<=20.97	PASS
		2480	5.19	<=20.97	PASS

Test Graphs

