FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.

CAR AUDIO PLAYER

Model Number: K17

FCC ID: 2AEIN-K17

 $\label{prepared for prepared for prepared for the control of the$

North Shangxia Road, Dongjiang Hi tech Industry Park, Huizhou,

China

Prepared By: EST Technology Co., Ltd.

Santun(guantai Road), Houjie Town, DongGuan City, GuangDong,

China.

Tel: 86-769-83081888-808

Report Number: ESTE-R1510005

Date of Test : September 24~ October 11,2015

Date of Report: October 12,2015

TABLE OF CONTENTS

<u>Des</u>	cription	Page
TEST	REPORT VERIFICATION	3
1.	GENERAL INFORMATION	5
	1.1. Description of Device (EUT)	5
2.	SUMMARY OF TEST	
	2.1. Summary of test result	
	2.2. Test Facilities	
	2.3. Measurement uncertainty	
	2.4. Assistant equipment used for test	8
	2.5. Block Diagram	8
	2.6. Test mode	9
	2.7. Channel List for Bluetooth	9
	2.8. Test Equipment	
3.	MAXIMUM PEAK OUTPUT POWER	11
	3.1. Limit	11
	3.2. Test Procedure	11
	3.3. Test Result	11
	3.4. Test Data	
4.	20 DB bandwidth	16
	4.1. Limit	
	4.2. Test Procedure	16
	4.3. Test Result	
	4.4. Test Data	
5.	CARRIER FREQUENCY SEPARATION	21
	5.1. Limit	21
	5.2. Test Procedure	21
	5.3. Test Result	21
	5.4. Test Data	22
6.	NUMBER OF HOPPING CHANNEL	26
	6.1. Limit	26
	6.2. Test Procedure	26
	6.3. Test Result	26
	6.4. Test Data	27
7.	DWELL TIME	29
	7.1. Limit	29
	7.2. Test Result	29
	7.3. Test Data	30
8.	RADIATED EMISSIONS	36
	8.1. Limit	
	8.2. Block Diagram of Test setup	
	8.3. Test Procedure	
	8.4. Test Result	38

FCC ID: 2AEIN-K17

	8.5. Test Data	39
9.	BAND EDGE COMPLIANCE	75
	9.1. Limit	
	9.2. Block Diagram of Test setup	75
	9.3. Test Procedure	
	9.4. Test Result	
	9.5. Test Data	77
10.	Antenna Requirements	93
	10.1. Limit	
	10.2. Result	93
11.	TEST SETUP PHOTO	94
12	PHOTOS OF EUT	95

Test Report Verification

Applicant: Address: HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTI North Shangxia Road, Dongjiang Hi tech Industry Park, Huiz China HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTI					
Address: China HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTI	zhou ,				
Manufacturer HUIZHOU FORYOU GENERAL ELECTRONICS CO., LT					
Manufacturer	D.				
North Shangyia Road Dongilang Hi tech Industry Park Hills	zhou ,				
Address: China					
E.U.T: CAR AUDIO PLAYER					
Model Number: K17					
Power Supply: DC 12V					
Test Voltage: DC 12V					
Trade Name: myron&davis Serial No.:					
Date of Receipt: September 24,2015 Date of Test: September 24 of October 11,201					
Test Specification: FCC Rules and Regulations Part 15 Subpart C:2014 ANSI C63.10:2013					
The device described above is tested by EST Technology Co.	., Ltd				
The measurement results were contained in this test report an	nd EST				
Test Result: Technology Co., Ltd. was assumed full responsibility for the	±				
accuracy and completeness of these measurements. Also, this	report				
shows that the EUT to be technically compliance with the FC	CC				
Rules and Regulations Part 15 Subpart C requirements.					
01081					
This report applies to above tested sample only and shall not	bee.				
reproduced in part without written approval of EST Technological	gy /-				
Co., Ltd.	30				
Date: October 12,2015					
Prepared by: Tested by: Approved	by à				
Ada Trumer	Mu				
Ziolivi Zioliv					
Ada / Assistant Tony.Tang/ Engineer IcemanHu / N	Manager				
Other Aspects:					
None.					
Abbreviations: OK/P =passed fail/ F =failed n.a/ N =not applicable $E.U.T$ =equipment und	ler tested				



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name : CAR AUDIO PLAYER

Model Number : K17

FCC ID : 2AEIN-K17

Operation frequency : 2402MHz~2480MHz

Number of channel: 79

Antenna : Integrated PCB antenna, 1 dBi gain

Modulation : FHSS (GFSK, $\pi/4$ -DQPSK, 8-DPSK)

Sample Type : Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
20dB Bandwidth	FCC Part 15: 15.215 DA 00-705	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10: 2013 DA 00-705	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) DA 00-705	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	N/A
Antenna requirement	FCC Part 15: 15.203	PASS

Note: 15.207 only signals conducted onto the AC power lines are required to be measured. The equipment is only DC power supply, so "Power Line Conducted Emissions" is not required.

EST

2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA

Registration No.: L5288

Date of registration: November 13, 2014

Certificated by FCC, USA Registration No.: 989591

Date of registration: November 20, 2013

Certificated by Industry Canada Registration No.: 46405-9405 Test Side Number: 9405A-1

Date of registration: January 03, 2013

Certificated by VCCI, Japan

Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011

Certificated by Siemic, Inc. Registration No.: SLCN021

Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie Town, Dongguan,

Guangdong, China



2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

2.4. Assistant equipment used for test

2.4.1. N/A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground.EUT was be set into BT test mode by software before test.



(EUT: CAR AUDIO PLAYER)

2.6. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
	Low	2402MHz
GFSK	Middle	2441MHz
	High	2480MHz
	Low	2402MHz
8-DPSK	Middle	2441MHz
	High	2480MHz

2.7. Channel List for Bluetooth

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)	No.	(MHz)	No.	(MHz)
1	2402	2	2403	3	2404	4	2405
5	2406	6	2407	7	2408	8	2409
9	2410	10	2411	11	2412	12	2413
13	2414	14	2415	15	2416	16	2417
17	2418	18	2419	19	2420	20	2421
21	2422	22	2423	23	2424	24	2425
25	2426	26	2427	27	2428	28	2429
29	2430	30	2431	31	2432	32	2433
33	2434	34	2435	35	2436	36	2437
37	2438	38	2439	39	2440	40	2441
41	2442	42	2443	43	2444	44	2445
45	2446	46	2447	47	2448	48	2449
49	2450	50	2451	51	2452	52	2453
53	2454	54	2455	55	2456	56	2457
57	2458	58	2459	59	2460	60	2461
61	2462	62	2463	63	2464	64	2465
65	2466	66	2467	67	2468	68	2469
69	2470	70	2471	71	2472	72	2473
73	2474	74	2475	75	2476	76	2477
77	2478	78	2479	79	2480	-	-



2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,15	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,15	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,15	1 Year

2.8.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4411B	MY5014069 7	June,28,15	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,15	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,15	1 Year

2.8.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK		BBHA9120D1 002	June,28,15	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,15	1 Year

EST Technology Co., Ltd Report No. ESTE-R1510005 Page 10 of 105

3. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

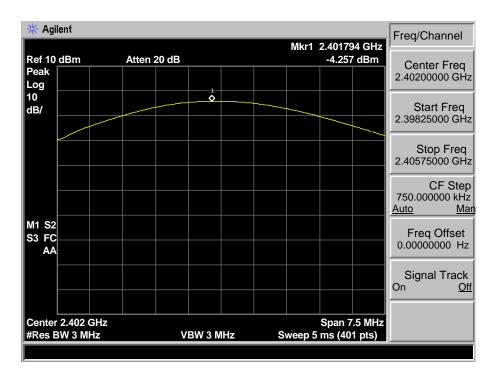
3.3. Test Result

EUT: CAR AUDIO PLAYER							
M/N: K17							
Test date: 20	15-09-28	Test site: RF site	Tested b	y: Tony Tang	5		
Mode	Freq	Result	L	Margin			
Wiode	(MHz)	(dBm)	dBm	W	(dB)		
	2402	-4.257	30.00	1	34.257		
GFSK	2441	-4.222	30.00	1	34.222		
	2480	-3.951	30.00	1	33.951		
	2402	-6.112	21.00	0.125	27.112		
8-DPSK	2441	-5.989	21.00	0.125	26.989		
	2480	-5.607	21.00	0.125	26.607		
Conclusion: PASS							

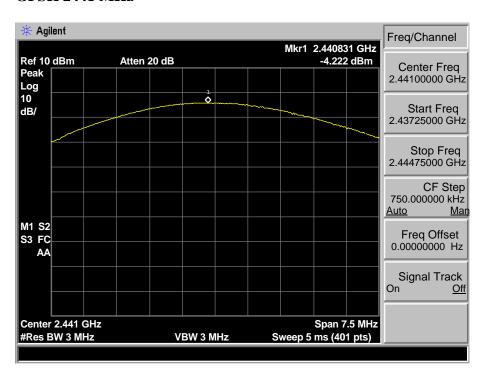
EST Technology Co., Ltd Report No. ESTE-R1510005 Page 11 of 105

3.4. Test Data

GFSK 2402 MHz

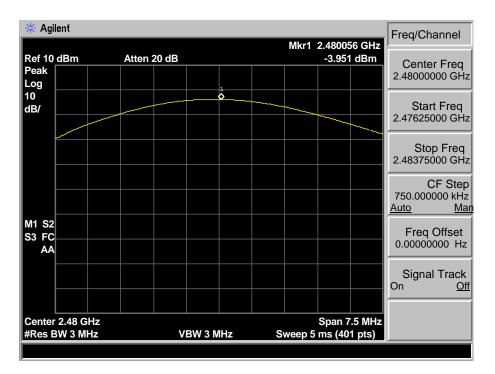


GFSK 2441 MHz



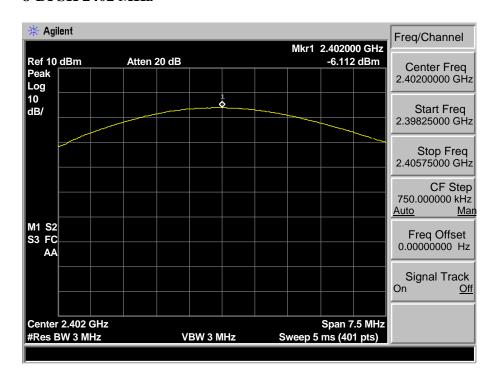


GFSK 2480 MHz

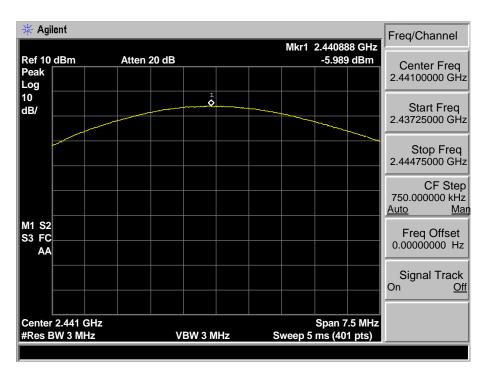




8-DPSK 2402 MHz

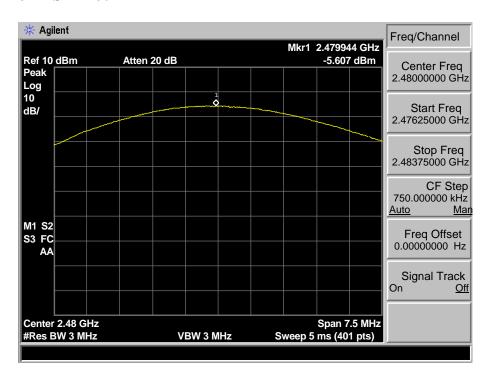


8-DPSK 2441 MHz





8-DPSK 2480 MHz





4. 20 DB BANDWIDTH

4.1. Limit

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

4.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

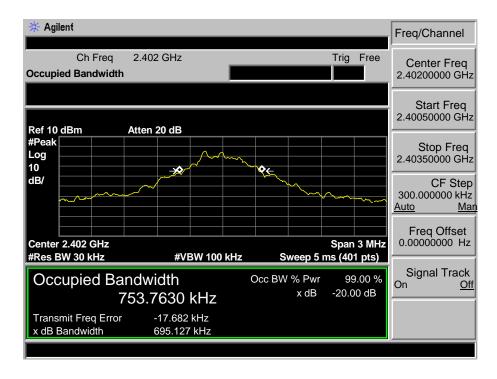
4.3. Test Result

EUT: CAR AUDIO PLAYER M/N: K17						
Test date: 2015-09-28 Test site: RF site Tested by: Tony Tang						
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion		
	2402	0.695	/	PASS		
GFSK	2441	0.695	/	PASS		
	2480	0.685	/	PASS		
	2402	1.213	/	PASS		
8-DPSK	2441	1.214	/	PASS		
	2480	1.210	/	PASS		

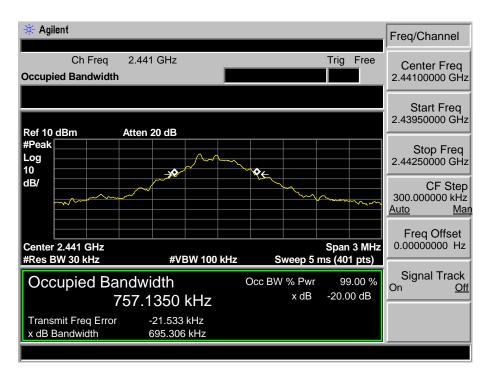


4.4. Test Data

GFSK 2402MHz

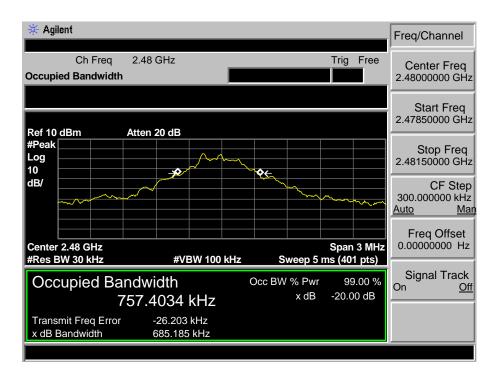


GFSK 2441MHz



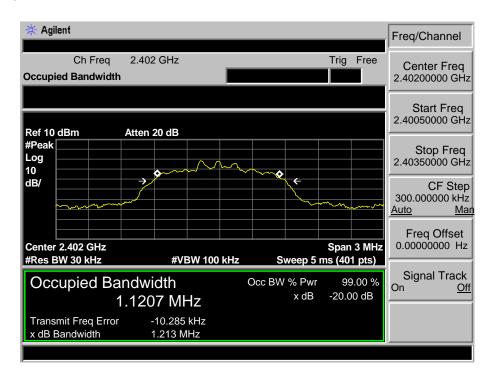


GFSK 2480MHz

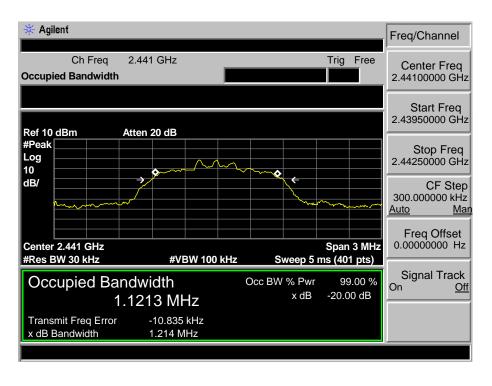




8-DPSK 2402MHz

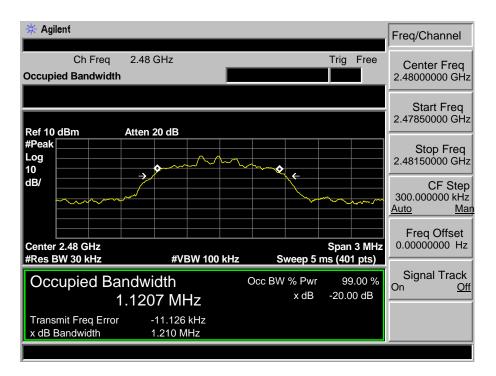


8-DPSK 2441MHz





8-DPSK 2480MHz





5. CARRIER FREQUENCY SEPARATION

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

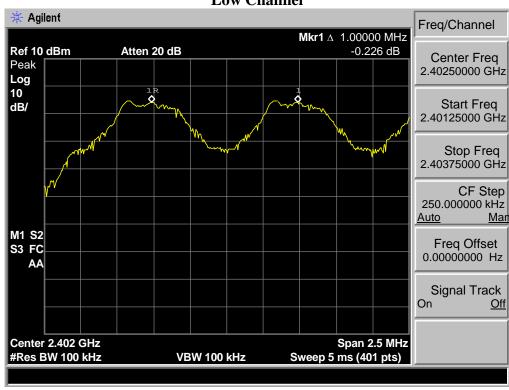
5.3. Test Result

EUT: CAR AUDIO PLAYER				
M/N: K17				
Test date: 2015-09-28			Test site: RF site Tested by: Tony Tang	
Mode	Channel	Channel separation (MHz)	Limit	Conclusion
GFSK	Low CH	1.000	0.695 MHz	PASS
	Mid CH	1.000	0.695 MHz	PASS
	High CH	1.006	0.685 MHz	PASS
8-DPSK	Low CH	1.006	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.000		PASS
	High CH	1.000		PASS

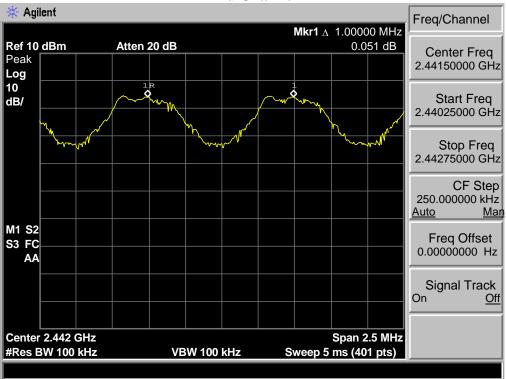


5.4. Test Data

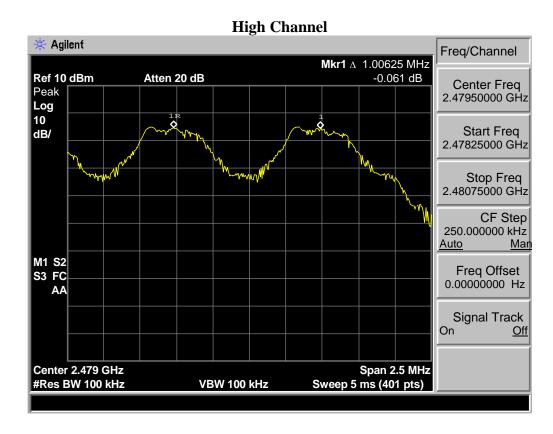
GFSK Low Channel



Mid Channel

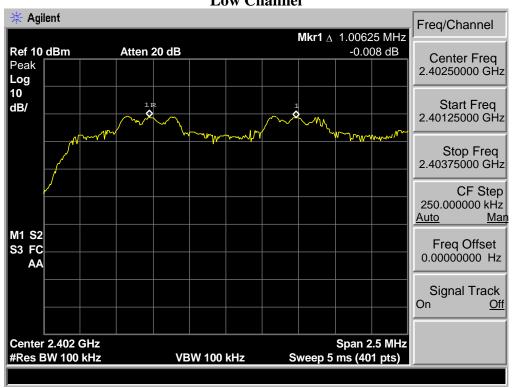




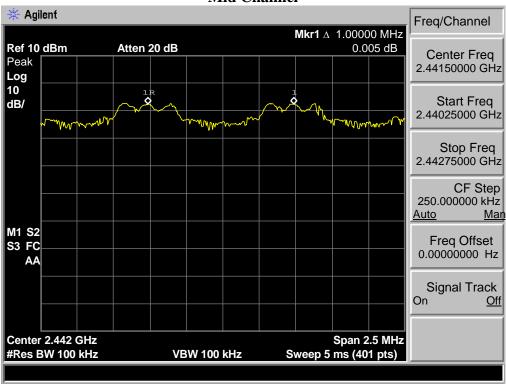




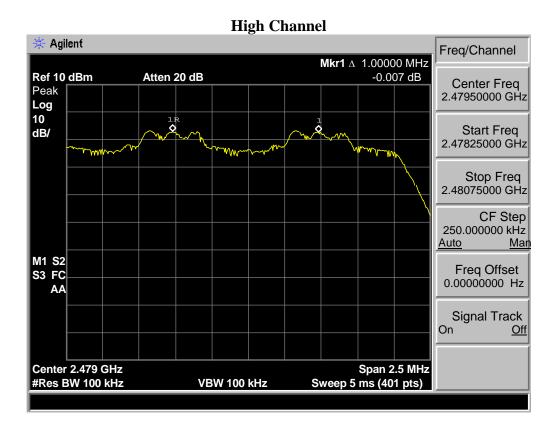
8-DPSK Low Channel



Mid Channel









6. NUMBER OF HOPPING CHANNEL

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 300kHz VBW.

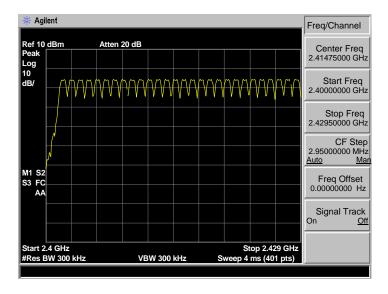
6.3. Test Result

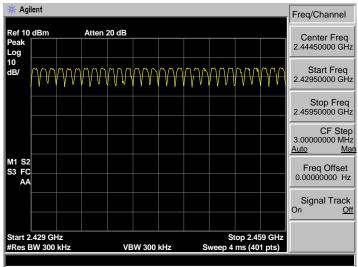
EUT: CAR AUDIO PLAYER					
M/N: K17					
Test date: 20	15-09-28	Test site: RF site	Tested by: Tony.Tang		
Mode	Number of hopping channel		Limit	Conclusion	
GFSK	79		>15	PASS	
8-DPSK	79		>15	PASS	

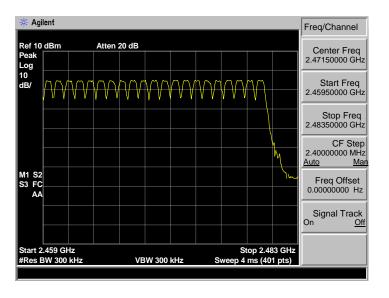


6.4. Test Data

GFSK

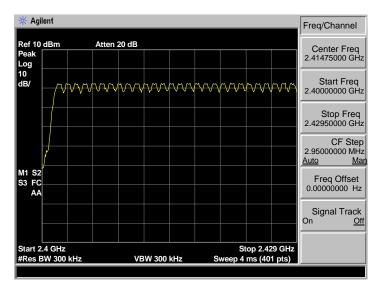


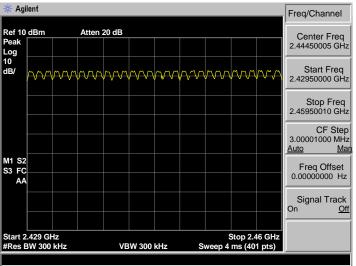


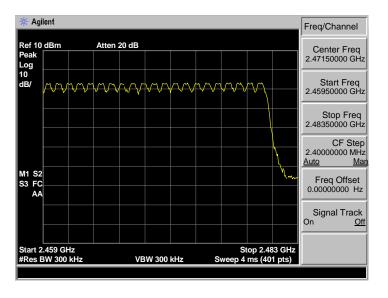




8-DPSK









7. DWELL TIME

7.1. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

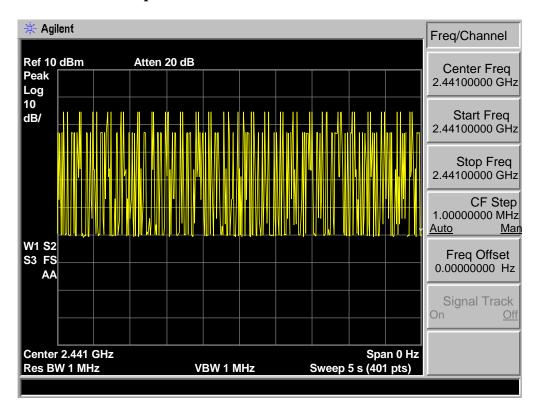
7.2. Test Result

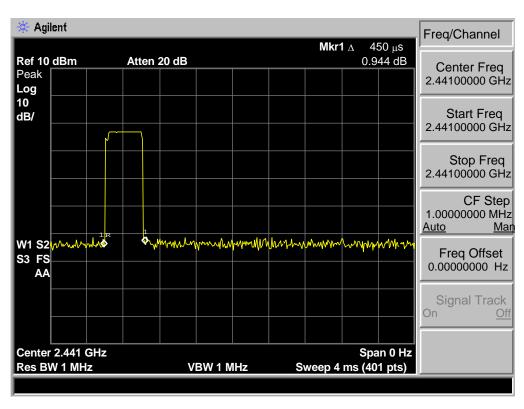
EUT: CAR AUDIO PLA M/N: K17	AYER		
Test date: 2015-09-28	Test site: RF site	Tested by: To	ony Tang
Mode	Dwell time (ms)	Limit	Conclusion
GFSK DH1	142.20	<400ms	PASS
GFSK DH3	267.02	<400ms	PASS
GFSK DH5	148.14	<400ms	PASS
8-DPSK DH1	136.26	<400ms	PASS
8-DPSK DH3	254.82	<400ms	PASS
8-DPSK DH5	223.72	<400ms	PASS



7.3. Test Data

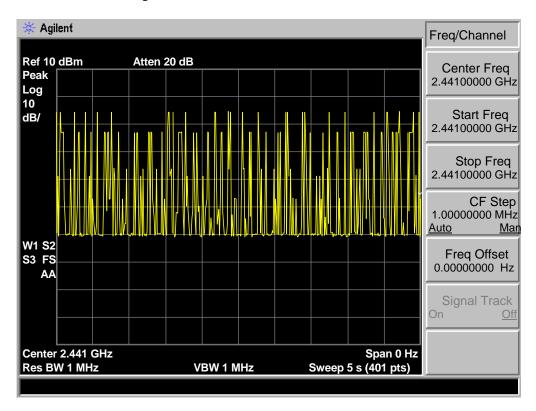
GFSK DH1: 50hop/5s * 0.4 * 79 * 0.45ms = 142.20ms

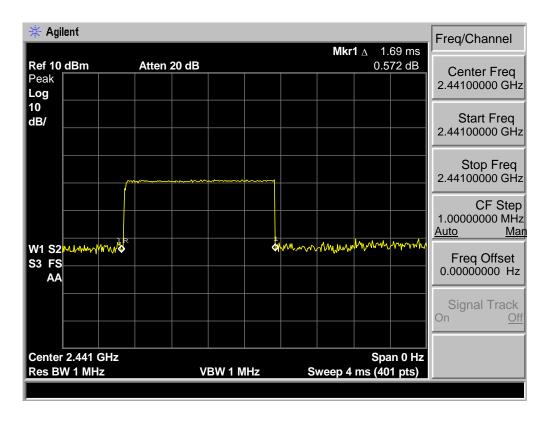






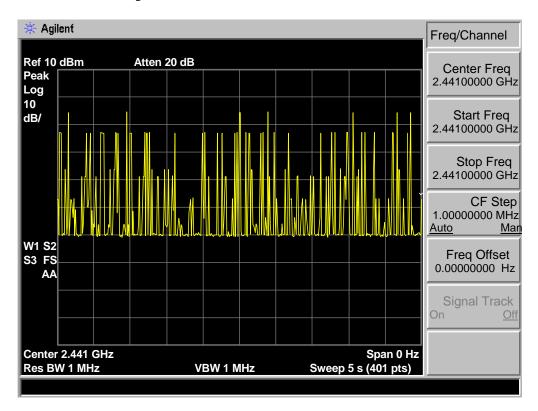
GFSK DH3: 25hop/5s * 0.4 * 79 * 1.69ms= 267.02ms

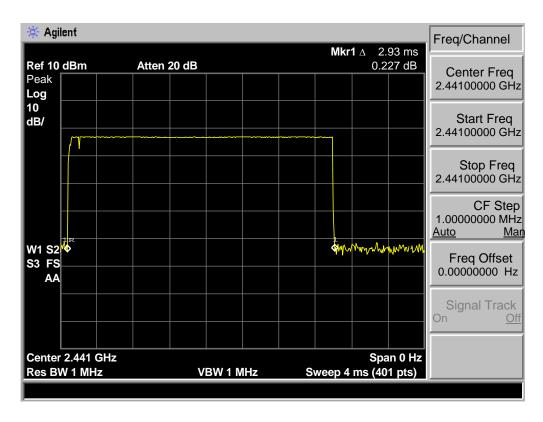






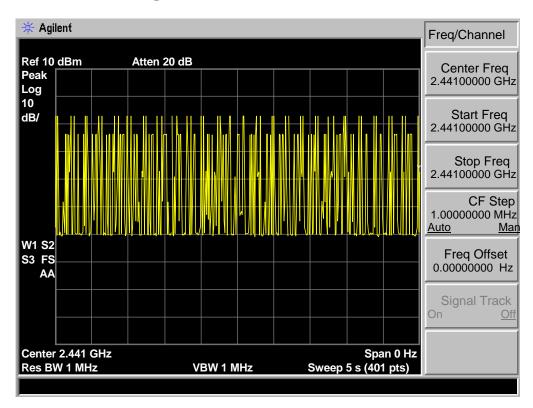
GSFK DH5 : 8hop/5s * 0.4 * 79 * 2.93ms = 148.14ms

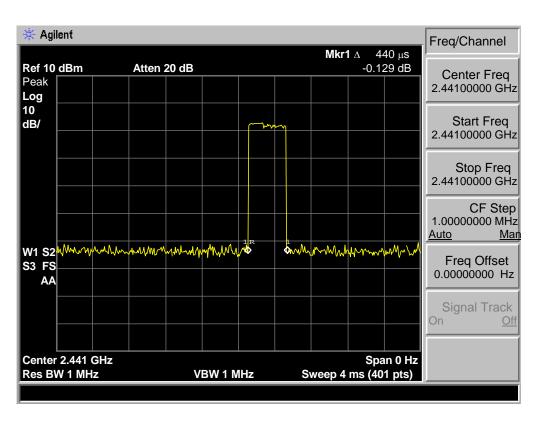






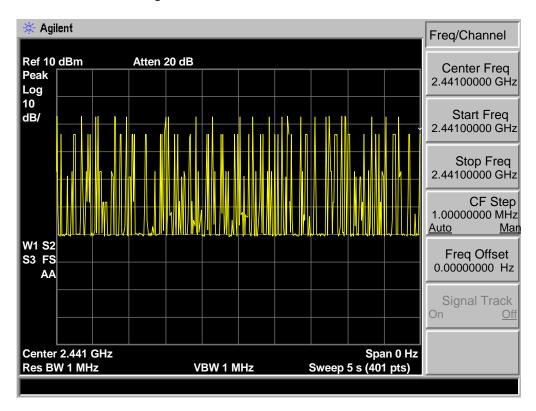
8-DPSK DH1 : 49hop/5s * 0.4 * 79 * 0.44ms = 136.26ms

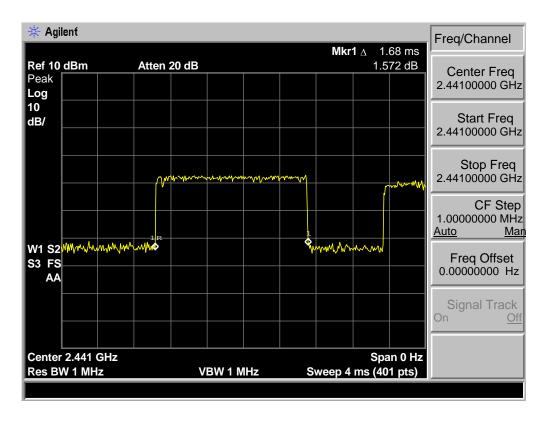






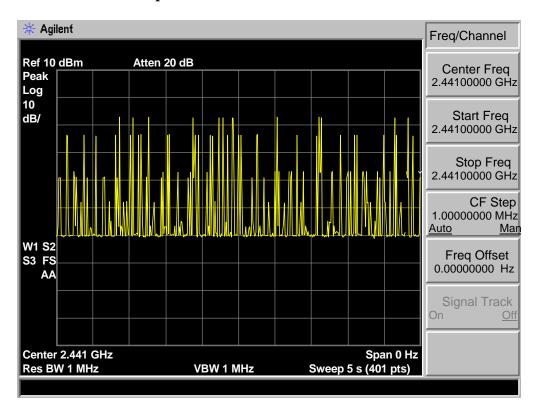
8-DPSK DH3: 24hop/5s * 0.4 * 79 * 1.68ms= 254.82ms

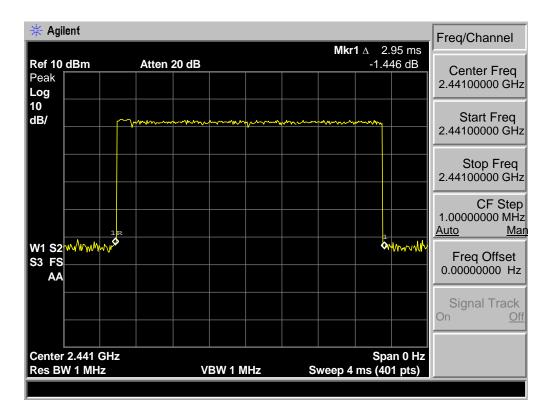






8-DPSK DH5: 12hop/5s * 0.4 * 79 *2.95ms = 223.73ms







EST Technology Co., Ltd Report No. ESTE-R1510005

Page 35 of 105

8. RADIATED EMISSIONS

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

15.209 Limit

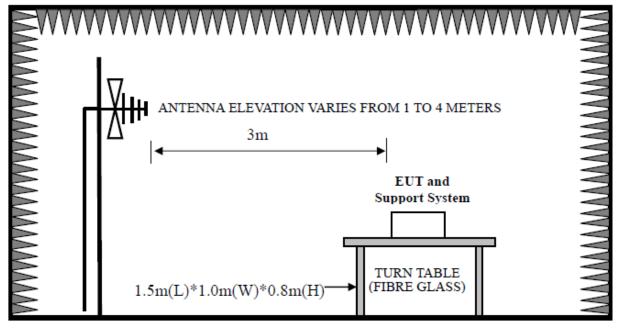
FREQ	UENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz		Meters	μV/m	dB(μV)/m
30 ~ 88		3	100	40.0
88 ~ 216		3	150	43.5
216 ~ 960		3	200	46.0
960 ~ 1000		3	500	54.0
Above	1000	3	**	/)/m (Peak)
		_	$54.0 \text{ dB}(\mu\text{V})/\text{m} \text{ (Average)}$	

EST Technology Co., Ltd Report No. ESTE-R1510005 Page 36 of 105

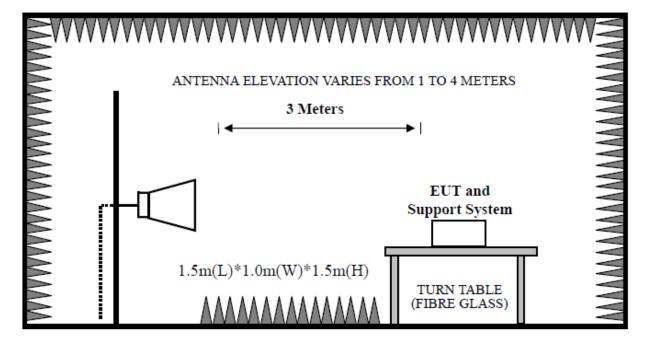


8.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



EST Technology Co., Ltd Report No. ESTE-R1510005 Page 37 of 105

8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 30~1000MHz test, and wiich is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement, PEAK detector, 1MHz/10Hz for Average measurement

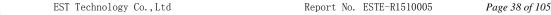
The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

8.4. Test Result

30MHz—25GHz Radiated emissison Test result								
EUT: CAR AUDIO PLAYER								
M/N: K17								
Power: DC 12V								
Test date: 2015-09-25~2015-10-09	Test site: 3m Chamber	Tested by: Tony Tang						
Test mode: Tx Mode								
	Pass							

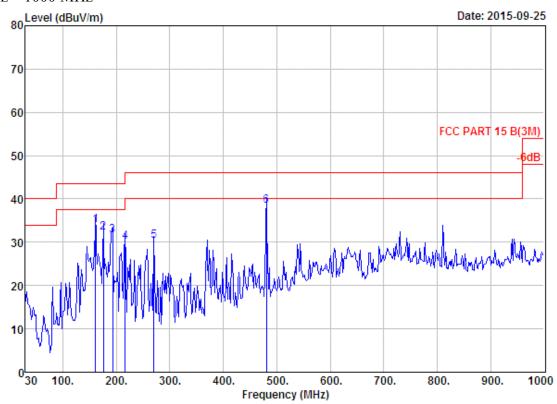
Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2. The frequency 2402MHz . 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



8.5. Test Data

30 MHz - 1000 MHz



Site no. : 966 1# chamber Data no. : 764
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

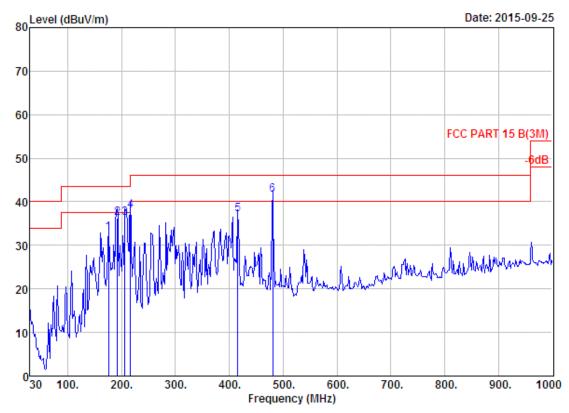
EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	160.95	10.24	1.70	22.00	33.94	43.50	9.56	QP
2	175.50	8.98	1.68	21.62	32.28	43.50	11.22	QP
3	192.96	7.85	1.77	21.89	31.51	43.50	11.99	QP
4	216.24	8.80	1.95	19.26	30.01	46.00	15.99	QP
5	270.56	12.53	2.27	15.47	30.27	46.00	15.73	QP
6	481.05	17.49	3.09	17.79	38.37	46.00	7.63	QP





Site no. : 966 1# chamber Data no. : 765
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

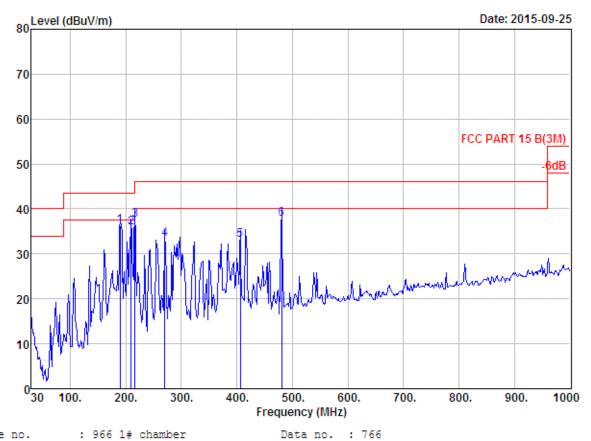
Engineer : Tony

EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	175.50	8.98	1.68	22.27	32.93	43.50	10.57	QP	
2	191.99	7.85	1.78	26.72	36.35	43.50	7.15	QP	
3	206.54	8.09	1.81	26.43	36.33	43.50	7.17	QP	
4	216.24	8.80	1.95	27.14	37.89	46.00	8.11	QP	
5	416.06	16.30	2.75	18.05	37.10	46.00	8.90	QP	
6	481.05	17.49	3.09	21.10	41.68	46.00	4.32	QP	



Site no. : 966 1# chamber Dis. / Ant. : 3m 27137

: 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

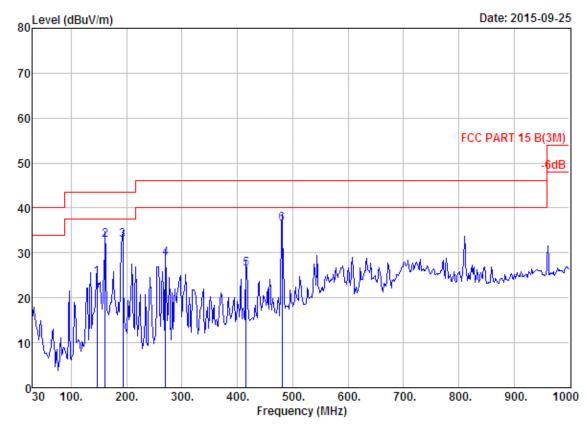
Engineer : Tony

EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	190.05	7.94	1.76	26.49	36.19	43.50	7.31	QP
2	209.45	8.37	1.91	25.49	35.77	43.50	7.73	QP
3	216.24	8.80	1.95	26.83	37.58	46.00	8.42	QP
4	270.56	12.53	2.27	18.56	33.36	46.00	12.64	QP
5	406.36	16.20	2.64	14.31	33.15	46.00	12.85	QP
6	481.05	17.49	3.09	17.25	37.83	46.00	8.17	QP



Site no. : 966 1# chamber Data no. : 767
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

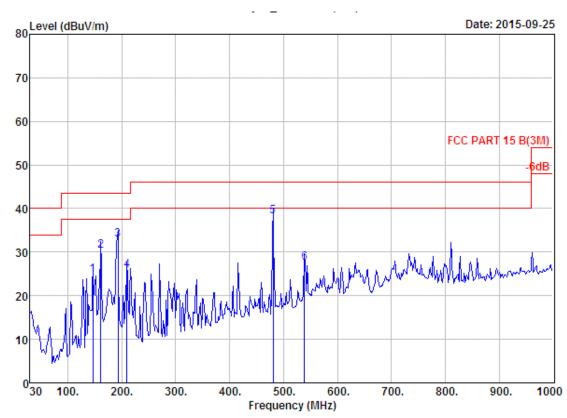
EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	11.70	24.43	43.50	19.07	QP
2	160.95	10.24	1.70	20.88	32.82	43.50	10.68	QP
3	192.96	7.85	1.77	23.31	32.93	43.50	10.57	QP
4	270.56	12.53	2.27	13.91	28.71	46.00	17.29	QP
5	416.06	16.30	2.75	7.35	26.40	46.00	19.60	QP
6	481.05	17.49	3.09	15.93	36.51	46.00	9.49	QP





Site no. : 966 1# chamber Data no. : 768
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

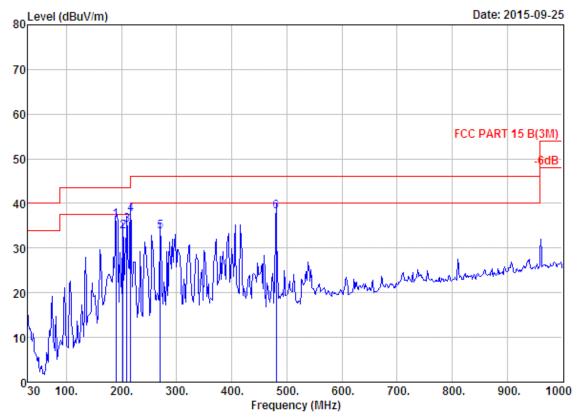
Engineer : Tony

EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	12.07	24.80	43.50	18.70	QP
2	160.95	10.24	1.70	18.43	30.37	43.50	13.13	QP
3	192.96	7.85	1.77	23.27	32.89	43.50	10.61	QP
4	209.45	8.37	1.91	15.46	25.74	43.50	17.76	QP
5	481.05	17.49	3.09	17.53	38.11	46.00	7.89	QP
6	539.25	19.35	3.22	5.02	27.59	46.00	18.41	QP



Site no. : 966 1# chamber Data no. : 769
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

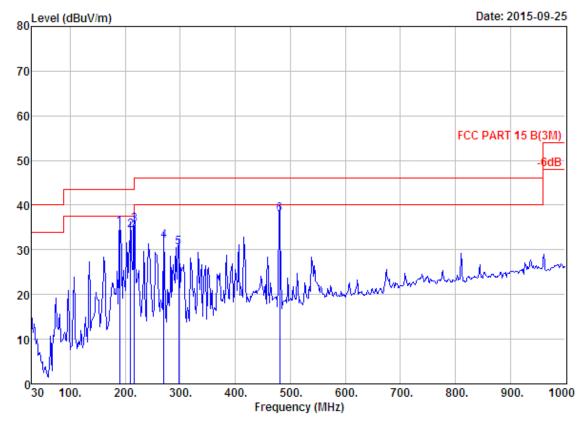
EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	190.05	7.94	1.76	26.51	36.21	43.50	7.29	QP
2	202.66	7.83	1.84	24.03	33.70	43.50	9.80	QP
3	209.45	8.37	1.91	24.83	35.11	43.50	8.39	QP
4	216.24	8.80	1.95	26.74	37.49	46.00	8.51	QP
5	270.56	12.53	2.27	18.86	33.66	46.00	12.34	QP
6	481.05	17.49	3.09	17.61	38.19	46.00	7.81	QP





Site no. : 966 1# chamber Data no. : 770
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

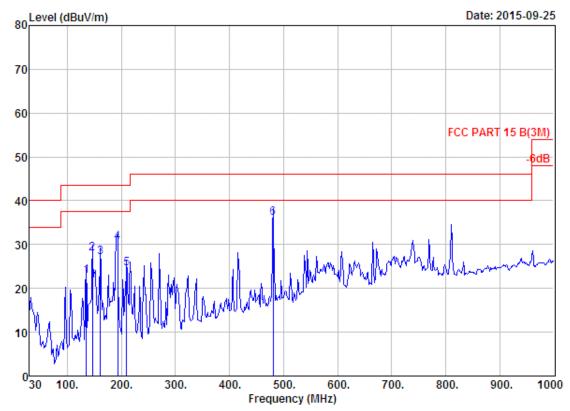
Engineer : Tony

EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz

		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	190.05	7.94	1.76	25.31	35.01	43.50	8.49	QP
	2	209.45	8.37	1.91	23.98	34.26	43.50	9.24	QP
	3	216.24	8.80	1.95	24.93	35.68	46.00	10.32	QP
4	4	270.56	12.53	2.27	17.12	31.92	46.00	14.08	QP
ţ	5	296.75	12.99	2.32	15.17	30.48	46.00	15.52	QP
	6	481.05	17.49	3.09	17.34	37.92	46.00	8.08	QP



Site no. : 966 1# chamber Data no. : 771
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

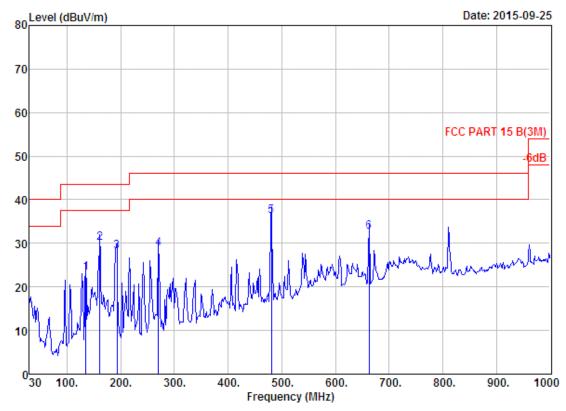
Engineer : Tony

EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	134.76	11.37	1.57	9.87	22.81	43.50	20.69	QP
2	146.40	11.15	1.58	15.18	27.91	43.50	15.59	QP
3	160.95	10.24	1.70	15.22	27.16	43.50	16.34	QP
4	192.96	7.85	1.77	20.95	30.57	43.50	12.93	QP
5	209.45	8.37	1.91	14.22	24.50	43.50	19.00	QP
6	481.05	17.49	3.09	15.51	36.09	46.00	9.91	QP



Site no. : 966 1# chamber Data no. : 772
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

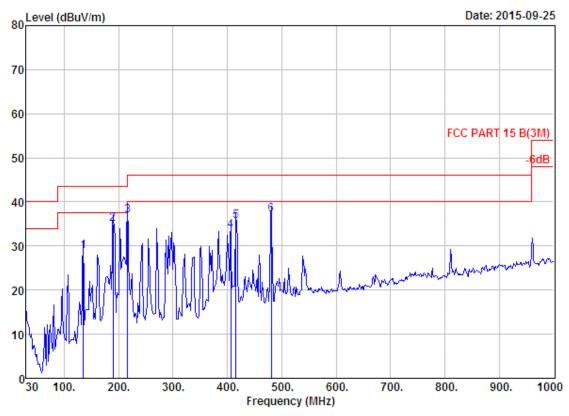
EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	134.76	11.37	1.57	10.35	23.29	43.50	20.21	QP
2	160.95	10.24	1.70	18.04	29.98	43.50	13.52	QP
3	192.96	7.85	1.77	18.49	28.11	43.50	15.39	QP
4	270.56	12.53	2.27	13.97	28.77	46.00	17.23	QP
5	481.05	17.49	3.09	15.79	36.37	46.00	9.63	QP
6	662.44	20.10	3.55	8.89	32.54	46.00	13.46	QP





Site no. : 966 1# chamber Data no. : 773

Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

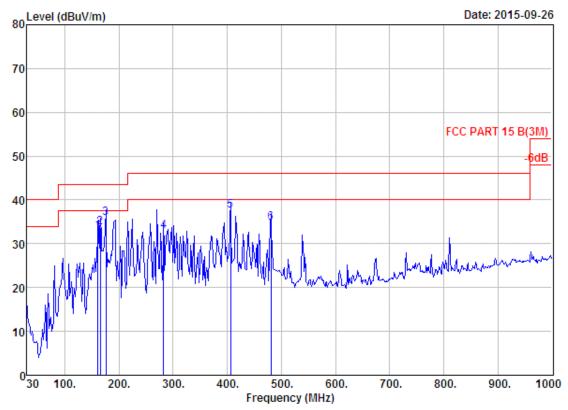
EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	134.76	11.37	1.57	15.95	28.89	43.50	14.61	QP
2	190.05	7.94	1.76	25.35	35.05	43.50	8.45	QP
3	216.24	8.80	1.95	26.06	36.81	46.00	9.19	QP
4	406.36	16.20	2.64	14.68	33.52	46.00	12.48	QP
5	416.06	16.30	2.75	16.50	35.55	46.00	10.45	QP
6	481.05	17.49	3.09	16.51	37.09	46.00	8.91	QP





Site no. : 966 1# chamber Data no. : 774

Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

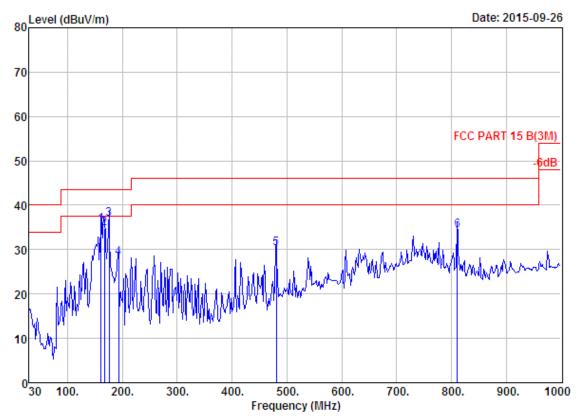
Engineer : Tony

EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	160.95	10.24	1.70	20.95	32.89	43.50	10.61	QP
2	165.80	9.66	1.68	22.41	33.75	43.50	9.75	QP
3	175.50	8.98	1.68	25.13	35.79	43.50	7.71	QP
4	282.20	12.45	2.33	18.06	32.84	46.00	13.16	QP
5	406.36	16.20	2.64	18.72	37.56	46.00	8.44	QP
6	481.05	17.49	3.09	14.28	34.86	46.00	11.14	QP



Site no. : 966 1# chamber Data no. : 775
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

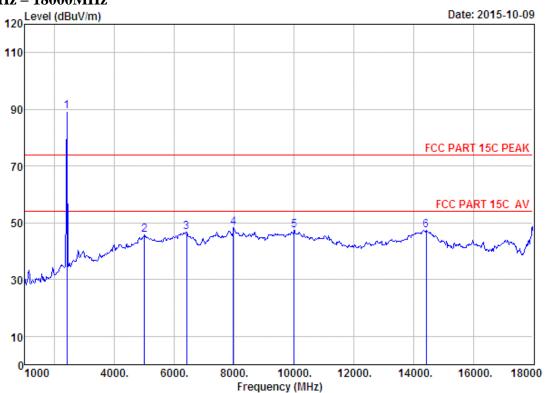
EUT : Car Audio PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	160.95	10.24	1.70	23.60	35.54	43.50	7.96	QP
2	166.77	9.54	1.69	23.63	34.86	43.50	8.64	QP
3	175.50	8.98	1.68	26.16	36.82	43.50	6.68	QP
4	192.96	7.85	1.77	18.53	28.15	43.50	15.35	QP
5	481.05	17.49	3.09	9.63	30.21	46.00	15.79	QP
6	810.85	22.38	3.83	8.07	34.28	46.00	11.72	QP

1000 MHz - 18000 MHz



Site no. : 1# 966 chamber Data no. : 834 : 3m ANT 1-18G : FCC PART 15C PEAK Ant. pol. : VERTICAL Dis. / Ant.

Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

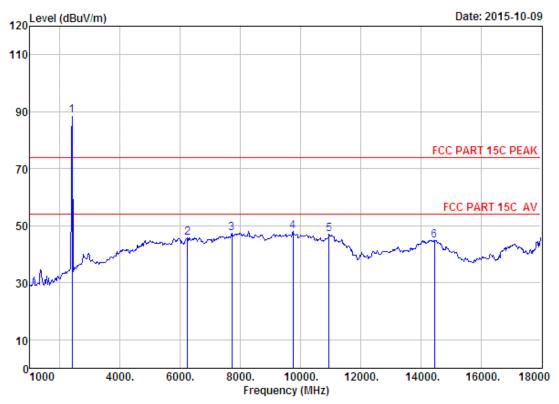
: DC 12V Power : K17 M/N

Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	89.27	89.32	74.00	-15.32	Peak
2	4995.00	31.54	12.59	32.00	33.58	45.71	74.00	28.29	Peak
3	6406.00	33.99	12.21	31.91	32.51	46.80	74.00	27.20	Peak
4	7970.00	36.94	11.41	31.25	31.11	48.21	74.00	25.79	Peak
5	10010.00	38.12	11.58	31.79	29.43	47.34	74.00	26.66	Peak
6	14430.00	41.82	10.93	32.84	27.61	47.52	74.00	26.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 835
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

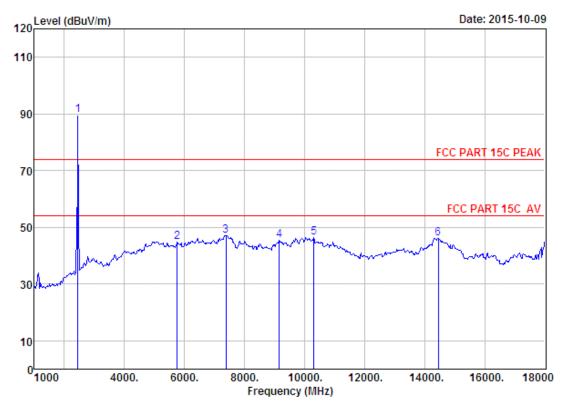
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant.	Cable	Amp		Emission			
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	88.72	88.77	74.00	-14.77	Peak
2	6236.00	33.36	12.17	31.97	32.26	45.82	74.00	28.18	Peak
3	7715.00	36.51	11.52	31.52	30.99	47.50	74.00	26.50	Peak
4	9755.00	38.13	11.65	31.86	30.12	48.04	74.00	25.96	Peak
5	10945.00	39.46	11.29	33.55	29.83	47.03	74.00	26.97	Peak
6	14464.00	41.85	10.93	32.96	25.06	44.88	74.00	29.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 chamber Site no. Data no. : 838 Dis. / Ant. : 3m ANT 1-18G Limit : FCC PART 15C PEAK Ant. pol. : VERTICAL

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

: Tony Engineer

EUT : CAR AUDIO PLAYER

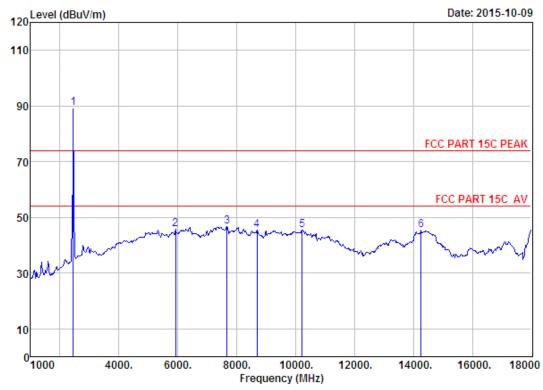
: DC 12V Power : K17 M/N

Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	89.51	89.66	74.00	-15.66	Peak
2	5760.00	32.30	12.06	32.51	33.10	44.95	74.00	29.05	Peak
3	7375.00	36.57	11.59	31.98	31.01	47.19	74.00	26.81	Peak
4	9160.00	37.69	11.54	32.38	28.67	45.52	74.00	28.48	Peak
5	10316.00	38.65	11.41	32.37	28.62	46.31	74.00	27.69	Peak
6	14464.00	41.85	10.93	32.96	26.31	46.13	74.00	27.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 839
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

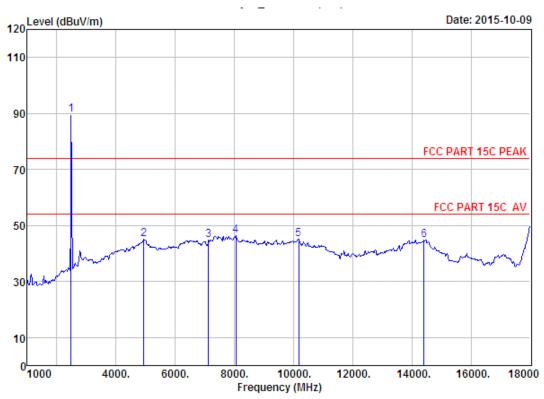
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	89.28	89.43	74.00	-15.43	Peak
2	5930.00	32.63	12.10	32.31	33.21	45.63	74.00	28.37	Peak
3	7664.00	36.45	11.55	31.61	30.35	46.74	74.00	27.26	Peak
4	8684.00	37.32	11.45	32.43	29.26	45.60	74.00	28.40	Peak
5	10214.00	38.48	11.47	32.17	27.78	45.56	74.00	28.44	Peak
6	14260.00	41.68	10.92	33.19	26.00	45.41	74.00	28.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 841
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

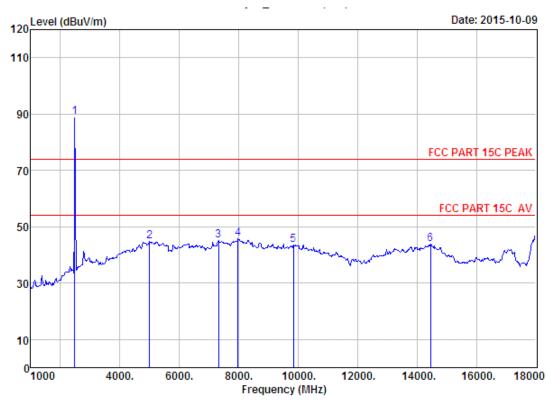
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	34.03	89.40	89.66	74.00	-15.66	Peak
2	4944.00	31.47	12.37	31.96	33.11	44.99	74.00	29.01	Peak
3	7120.00	36.08	11.51	32.28	29.57	44.88	74.00	29.12	Peak
4	8055.00	36.91	11.41	31.31	29.29	46.30	74.00	27.70	Peak
5	10180.00	38.42	11.49	32.11	27.43	45.23	74.00	28.77	Peak
6	14413.00	41.80	10.92	32.78	24.88	44.82	74.00	29.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 chamber Site no.

Data no. : 840 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT 1-18G

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

: CAR AUDIO PLAYER EUT

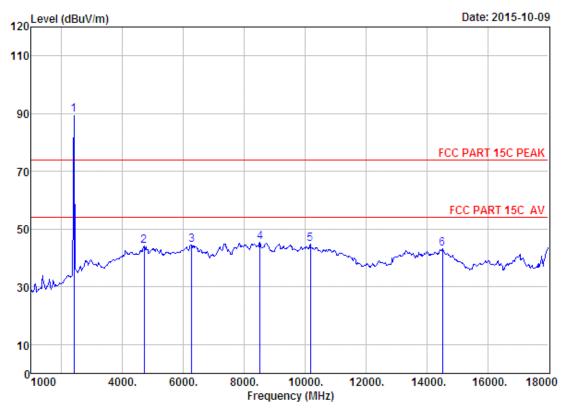
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	34.03	88.55	88.81	74.00	-14.81	Peak
2	4995.00	31.54	12.59	32.00	32.58	44.71	74.00	29.29	Peak
3	7324.00	36.55	11.57	31.99	28.86	44.99	74.00	29.01	Peak
4	7970.00	36.94	11.41	31.25	28.53	45.63	74.00	28.37	Peak
5	9840.00	38.16	11.63	31.81	25.68	43.66	74.00	30.34	Peak
6	14464.00	41.85	10.93	32.96	23.88	43.70	74.00	30.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 844

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

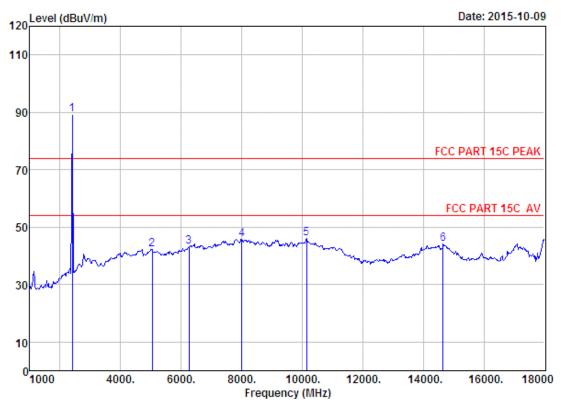
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	89.58	89.63	74.00	-15.63	Peak
2	4706.00	31.09	11.32	31.75	33.43	44.09	74.00	29.91	Peak
3	6270.00	33.48	12.18	31.95	30.91	44.62	74.00	29.38	Peak
4	8514.00	36.96	11.45	31.91	28.88	45.38	74.00	28.62	Peak
5	10180.00	38.42	11.49	32.11	27.00	44.80	74.00	29.20	Peak
6	14515.00	41.89	10.93	33.14	23.52	43.20	74.00	30.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 845
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

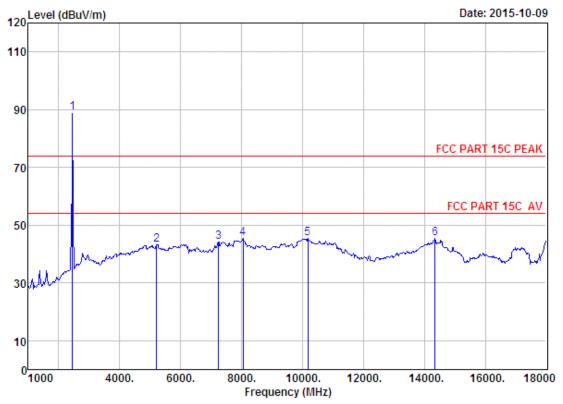
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	89.34	89.39	74.00	-15.39	Peak
2	5046.00	31.57	12.53	32.08	30.12	42.14	74.00	31.86	Peak
3	6253.00	33.42	12.17	31.96	29.42	43.05	74.00	30.95	Peak
4	8004.00	37.01	11.40	31.22	28.71	45.90	74.00	28.10	Peak
5	10146.00	38.36	11.51	32.05	28.40	46.22	74.00	27.78	Peak
6	14651.00	41.42	10.91	33.62	25.29	44.00	74.00	30.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 848
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

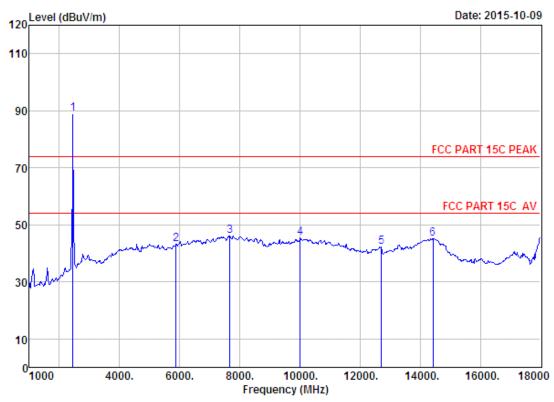
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2441.00	27.60	6.67	34.12	88.83	88.98	74.00	-14.98	Peak
5216.00	31.68	12.33	32.17	31.45	43.29	74.00	30.71	Peak
7239.00	36.53	11.55	32.07	28.29	44.30	74.00	29.70	Peak
8055.00	36.91	11.41	31.31	28.44	45.45	74.00	28.55	Peak
10180.00	38.42	11.49	32.11	27.53	45.33	74.00	28.67	Peak
14345.00	41.76	10.92	32.93	25.72	45.47	74.00	28.53	Peak
	(MHz) 2441.00 5216.00 7239.00 8055.00 10180.00	Freq. Factor (MHz) (dB/m) 2441.00 27.60 5216.00 31.68 7239.00 36.53 8055.00 36.91 10180.00 38.42	Freq. Factor Loss	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 2441.00 27.60 6.67 34.12 5216.00 31.68 12.33 32.17 7239.00 36.53 11.55 32.07 8055.00 36.91 11.41 31.31 10180.00 38.42 11.49 32.11	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 2441.00 27.60 6.67 34.12 88.83 5216.00 31.68 12.33 32.17 31.45 7239.00 36.53 11.55 32.07 28.29 8055.00 36.91 11.41 31.31 28.44 10180.00 38.42 11.49 32.11 27.53	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 2441.00 27.60 6.67 34.12 88.83 88.98 5216.00 31.68 12.33 32.17 31.45 43.29 7239.00 36.53 11.55 32.07 28.29 44.30 8055.00 36.91 11.41 31.31 28.44 45.45 10180.00 38.42 11.49 32.11 27.53 45.33	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 2441.00 27.60 6.67 34.12 88.83 88.98 74.00 5216.00 31.68 12.33 32.17 31.45 43.29 74.00 7239.00 36.53 11.55 32.07 28.29 44.30 74.00 8055.00 36.91 11.41 31.31 28.44 45.45 74.00 10180.00 38.42 11.49 32.11 27.53 45.33 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 2441.00 27.60 6.67 34.12 88.83 88.98 74.00 -14.98 5216.00 31.68 12.33 32.17 31.45 43.29 74.00 30.71 7239.00 36.53 11.55 32.07 28.29 44.30 74.00 29.70 8055.00 36.91 11.41 31.31 28.44 45.45 74.00 28.55 10180.00 38.42 11.49 32.11 27.53 45.33 74.00 28.67

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 849
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

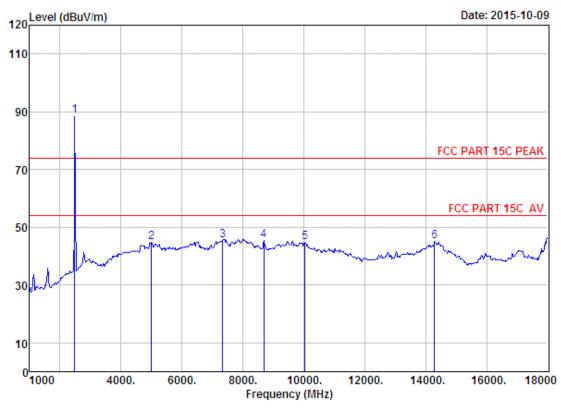
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)		Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	88.79	88.94	74.00	-14.94	Peak
2	5879.00	32.53	12.09	32.36	30.87	43.13	74.00	30.87	Peak
3	7664.00	36.45	11.55	31.61	29.78	46.17	74.00	27.83	Peak
4	10010.00	38.12	11.58	31.79	27.52	45.43	74.00	28.57	Peak
5	12713.00	38.82	11.13	34.74	27.15	42.36	74.00	31.64	Peak
6	14430.00	41.82	10.93	32.84	25.18	45.09	74.00	28.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 850
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

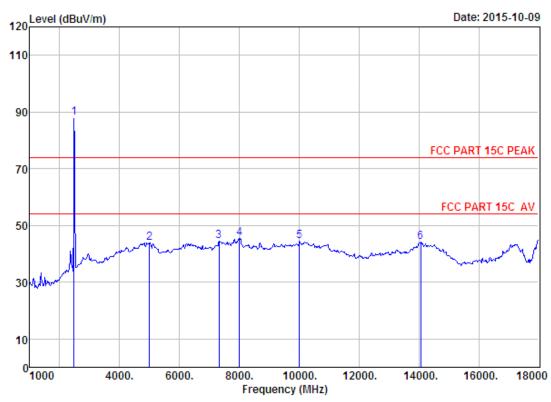
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	34.03	88.29	88.55	74.00	-14.55	Peak
2	4995.00	31.54	12.59	32.00	32.59	44.72	74.00	29.28	Peak
3	7341.00	36.56	11.58	31.99	29.37	45.52	74.00	28.48	Peak
4	8684.00	37.32	11.45	32.43	29.05	45.39	74.00	28.61	Peak
5	10044.00	38.18	11.56	31.85	27.03	44.92	74.00	29.08	Peak
6	14294.00	41.71	10.92	33.08	25.42	44.97	74.00	29.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 851
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

Power : DC 12V M/N : K17

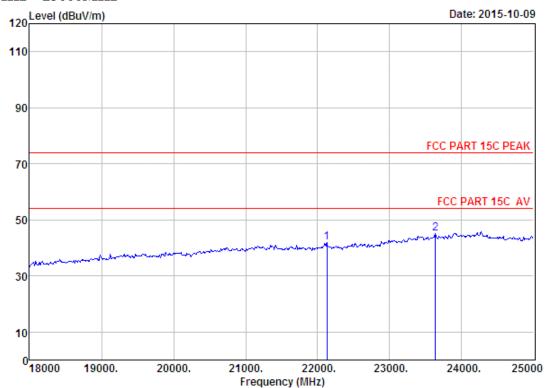
Test Mode : 8-DPSK TX 2480MHz

		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	L	2480.00	27.58	6.71	34.03	87.84	88.10	74.00	-14.10	Peak
- 2	2	4995.00	31.54	12.59	32.00	31.80	43.93	74.00	30.07	Peak
	3	7324.00	36.55	11.57	31.99	28.33	44.46	74.00	29.54	Peak
4	1	8004.00	37.01	11.40	31.22	28.29	45.48	74.00	28.52	Peak
	5	10010.00	38.12	11.58	31.79	26.58	44.49	74.00	29.51	Peak
	5	14056.00	41.51	10.90	33.80	25.40	44.01	74.00	29.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



18000MHz - 25000MHz



Site no. : 1# 966 chamber Data no. : 862
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

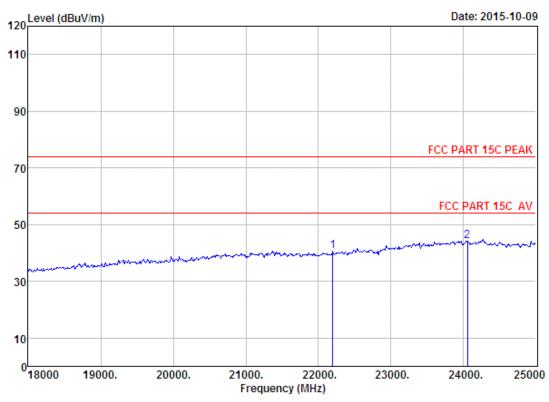
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Factor		Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	22130.00	45.73	20.64	34.77	10.24	41.84	74.00	32.16	Peak
2	23635.00	45.67	21.72	33.19	10.85	45.05	74.00	28.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber

Data no. : 863 Ant. pol. : HORIZONTAL : 3m ANT ABVOE 18G Dis. / Ant.

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

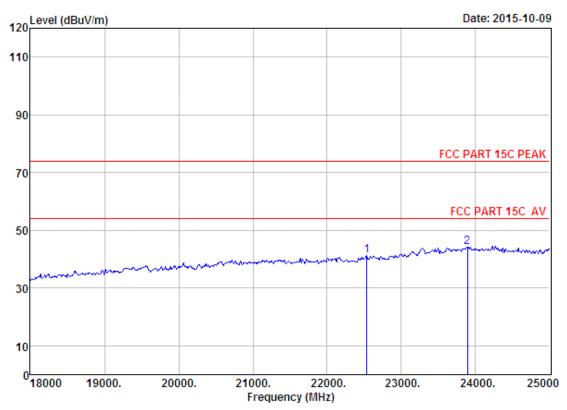
: DC 12V Power : K17 M/N

Test Mode : GFSK TX 2402MHz

	-	Factor	Loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
_	22200.00 24055.00					40.51 44.19	74.00 74.00	33.49 29.81	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 864

Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

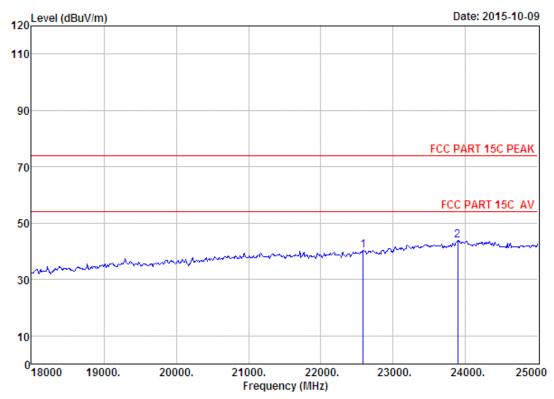
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Factor	Factor		Emission Level (dBuV/m)		Margin (dB)	Remark
22536.00 23894.00			8.97 9.51	41.29 44.18	74.00 74.00	32.71 29.82	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 865
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

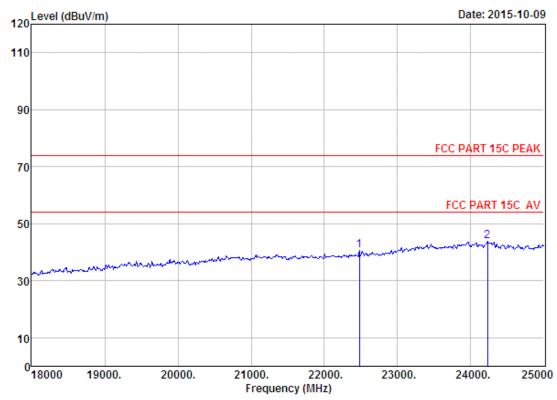
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Factor		Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
_	22585.00					40.28	74.00	33.72	Peak
2	23894.00	45.62	21.95	32.90	9.06	43.73	74.00	30.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 866
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

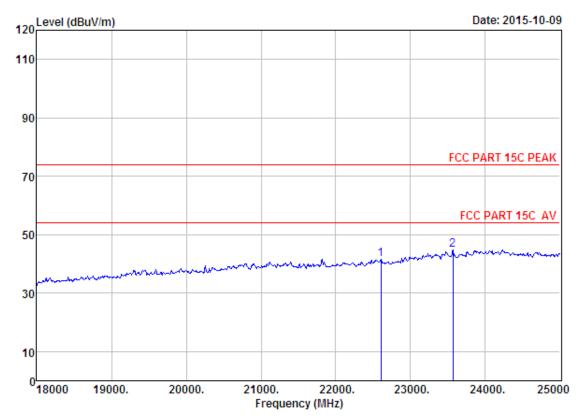
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz

Freq.	Factor	Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
22480.00 24230.00			8.38 9.30	40.62 43.97	74.00 74.00	33.38 30.03	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 867
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

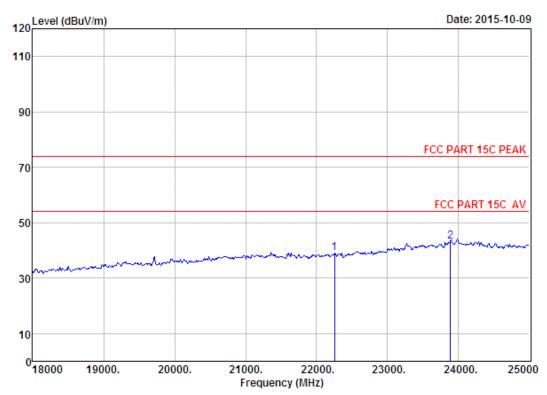
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz

Freq.	Factor	Cable Loss (dB)	Factor	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
22606.00 23565.00				9.22 10.78	41.63 44.87	74.00 74.00	32.37 29.13	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 868

Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

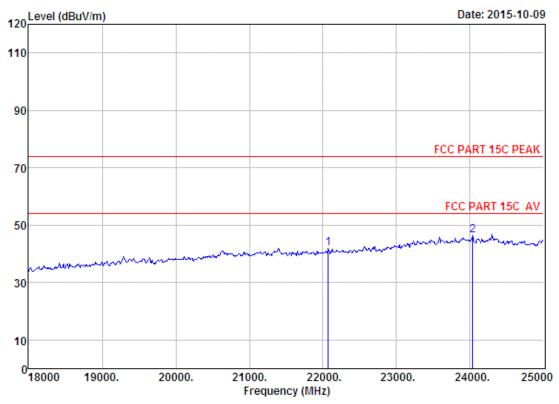
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Factor	Loss	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
22256.00 23887.00			 	38.89 43.13	74.00 74.00	35.11 30.87	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

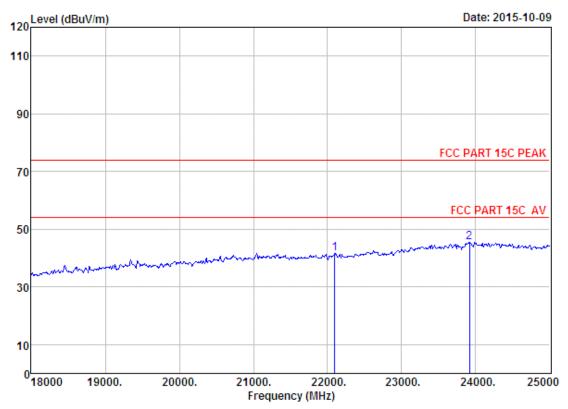
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Factor	Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
_	22074.00 24034.00		 		41.77 46.30	74.00 74.00	32.23 27.70	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

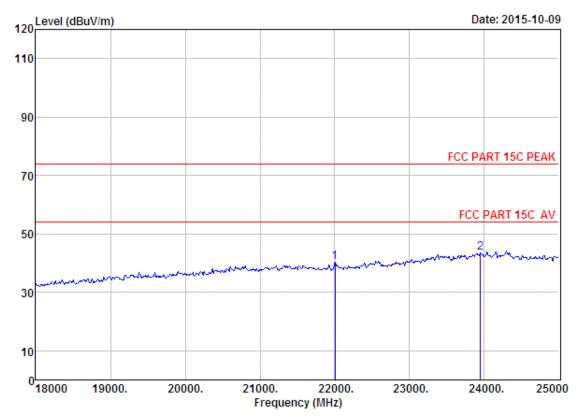
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2441MHz

-		Factor			Limits (dBuV/m)	Margin (dB)	Remark
22095.00 23915.00	 		9.96 10.80	41.50 45.51	74.00 74.00	32.50 28.49	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 871

Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

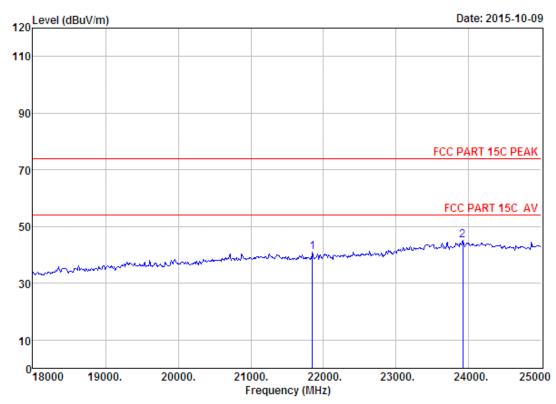
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2441MHz

Freq. (MHz)		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
22004.00 23950.00	 		8.99 8.64	40.36 43.40	74.00 74.00	33.64 30.60	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 872 Ant. pol. : HORIZONTAL Site no. : 1# 966 chamber

Dis. / Ant. : 3m ANT ABVOE 18G

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

: CAR AUDIO PLAYER EUT

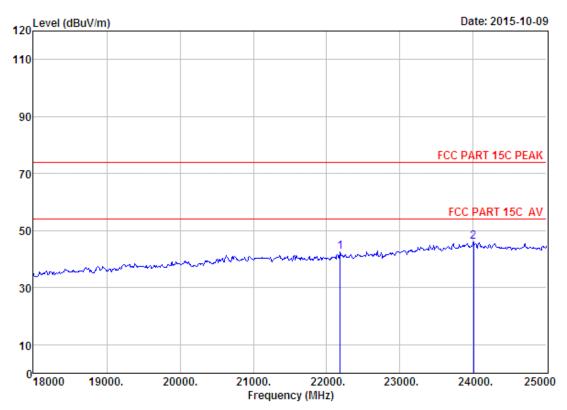
Power : DC 12V M/N : K17

: 8-DPSK TX 2480MHz Test Mode

Freq.	Factor	Loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
21850.00 23915.00					41.06 45.26	74.00 74.00	32.94 28.74	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 873
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz

req. Facto	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
186.00 45.73 006.00 45.60	 		42.46 45.95	74.00 74.00	31.54 28.05	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



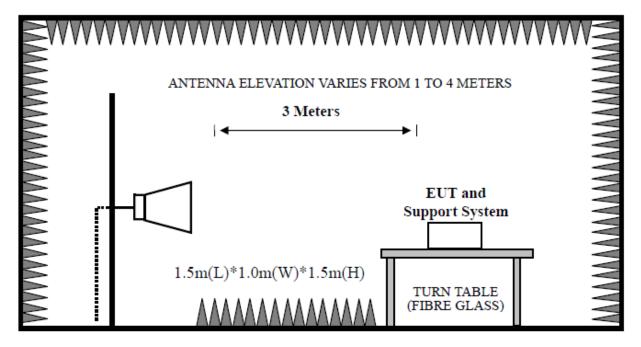
9. BAND EDGE COMPLIANCE

9.1. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.2. Block Diagram of Test setup

Above 1GHz



EST Technology Co., Ltd Report No. ESTE-R1510005 Page 75 of 105

9.3. Test Procedure

EUT was placed on a turn table, which is 1.5 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

- (a) Peak: RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
- (b) AV: RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

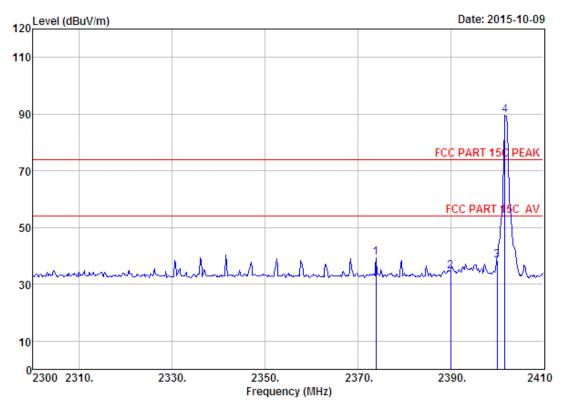
9.4. Test Result

EUT: CAR AUDIO PLAYER
M/N: K17
Power: DC 12V
Test date: 2015-10-09 Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx Mode (Hopping On & No Hopping)
Pass

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2402MHz . 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

EST Technology Co., Ltd Report No. ESTE-R1510005 Page 76 of 105

9.5. Test Data



Site no. : 1# 966 chamber Data no. : 836
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Dis. / Ant. : 3m ANT 1-18G Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

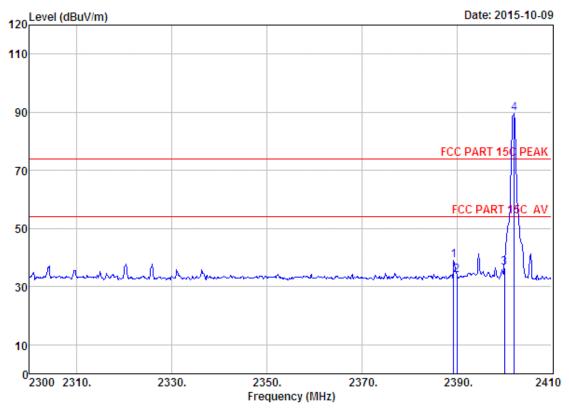
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq. (MHz)			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2373.92	27.64	6.60	34.19	39.46	39.51	74.00	34.49	Peak
2	2390.00	27.64	6.62	34.19	34.57	34.64	74.00	39.36	Peak
3	2400.00	27.61	6.62	34.18	38.40	38.45	74.00	35.55	Peak
4	2401.75	27.61	6.62	34.18	89.43	89.48	74.00	-15.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 837
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

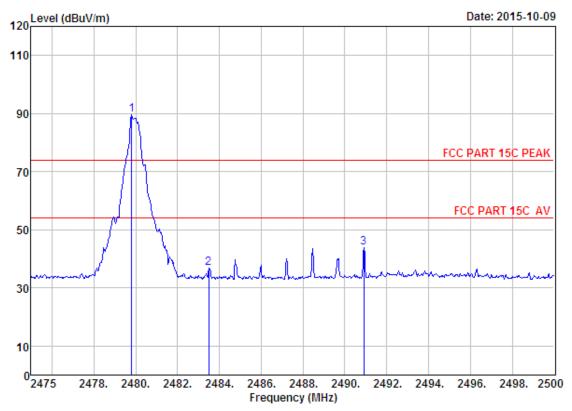
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.32	27.64	6.62	34.19	38.82	38.89	74.00	35.11	Peak
2	2390.00	27.64	6.62	34.19	33.80	33.87	74.00	40.13	Peak
3	2400.00	27.61	6.62	34.18	36.46	36.51	74.00	37.49	Peak
4	2402.08	27.61	6.62	34.18	89.47	89.52	74.00	-15.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 842
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

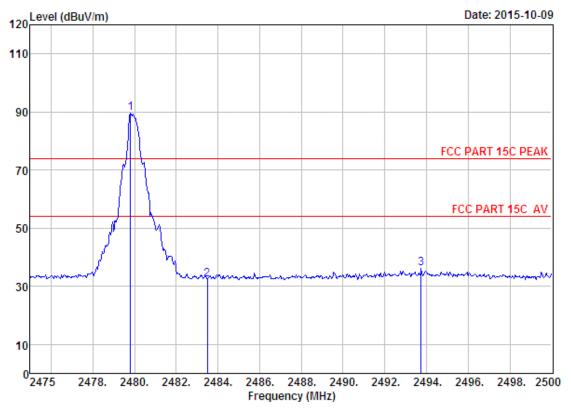
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz (No Hopping)

	Freq.		-	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1 2	2479.80 2483.50			89.31 36.64	89.57 36.90	74.00 74.00	-15.57 37.10	Peak Peak
	2490.90	 		43.54	43.82	74.00	30.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 843 : 1# 966 chamber Site no. Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

: CAR AUDIO PLAYER : DC 12V EUT

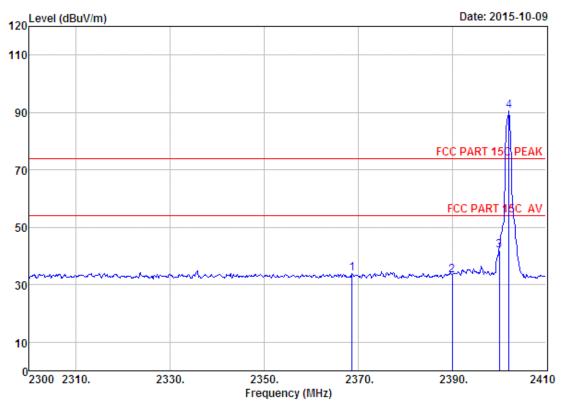
Power M/N : K17

Test Mode : GFSK TX 2480MHz (No Hopping)

	Freq.		Loss		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.80	27.58	6.71	34.03	89.34	89.60	74.00	-15.60	Peak
2	2483.50	27.58	6.71	34.03	31.90	32.16	74.00	41.84	Peak
3	2493.75	27.58	6.73	34.03	35.84	36.12	74.00	37.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 846
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

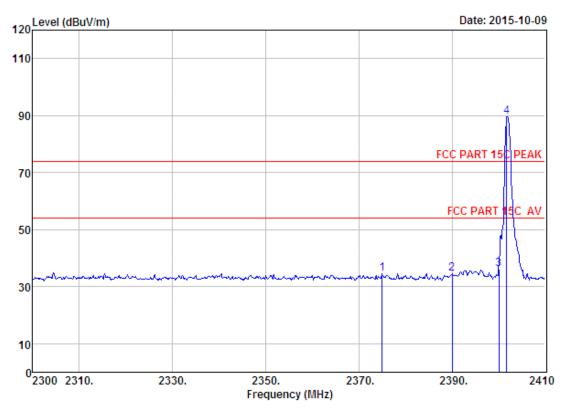
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz (No Hopping)

	Freq. (MHz)			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2368.75	27.67	6.60	34.20	33.91	33.98	74.00	40.02	Peak
2	2390.00	27.64	6.62	34.19	33.16	33.23	74.00	40.77	Peak
3	2400.00	27.61	6.62	34.18	41.71	41.76	74.00	32.24	Peak
4	2402.08	27.61	6.62	34.18	90.61	90.66	74.00	-16.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 847

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

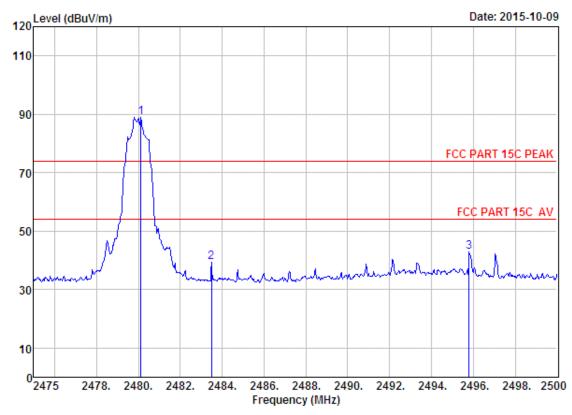
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz (No Hopping)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.02	27.64	6.60	34.19	34.37	34.42	74.00	39.58	Peak
2	2390.00	27.64	6.62	34.19	34.44	34.51	74.00	39.49	Peak
3	2400.00	27.61	6.62	34.18	36.03	36.08	74.00	37.92	Peak
4	2401.75	27.61	6.62	34.18	89.68	89.73	74.00	-15.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 852

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

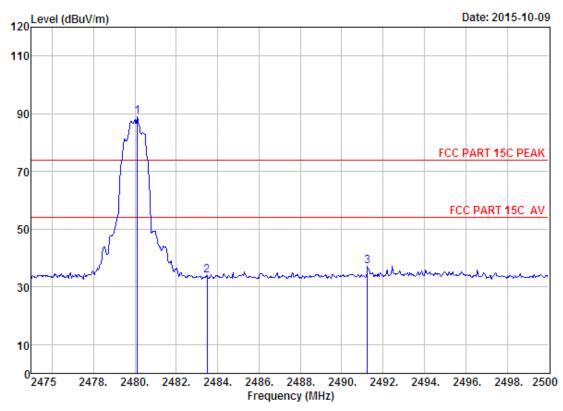
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz (No Hopping)

	Freq. (MHz)		Loss		Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.13	27.58	6.71	34.03	88.58	88.84	74.00	-14.84	Peak
2	2483.50	27.58	6.71	34.03	39.03	39.29	74.00	34.71	Peak
3	2495.80	27.57	6.73	34.00	42.58	42.88	74.00	31.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 853
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

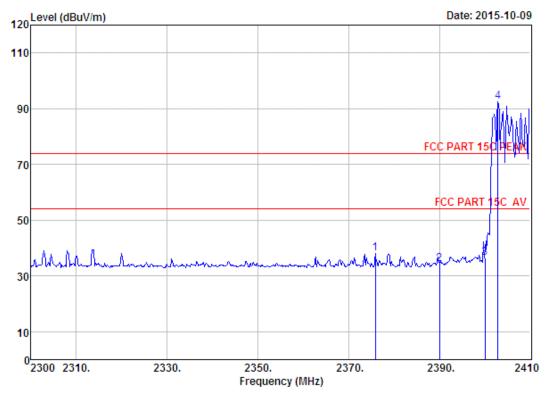
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz (No Hopping)

	Freq. (MHz)		Loss		Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2480.13	27.58	6.71	34.03	88.64	88.90	74.00	-14.90	Peak
2	2483.50	27.58	6.71	34.03	33.72	33.98	74.00	40.02	Peak
3	2491.25	27.58	6.73	34.03	36.84	37.12	74.00	36.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 854
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

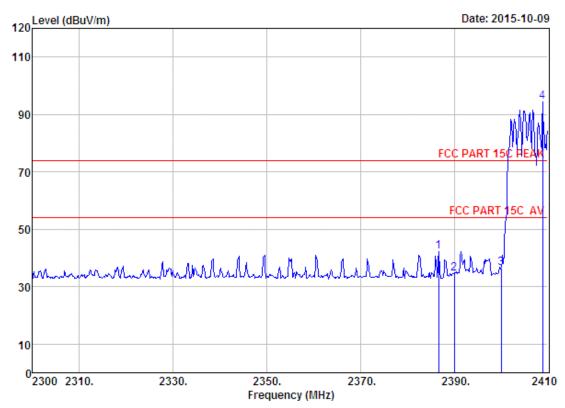
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz (Hopping On)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.90	27.64	6.60	34.19	38.05	38.10	74.00	35.90	Peak
2	2390.00	27.64	6.62	34.19	34.13	34.20	74.00	39.80	Peak
3	2400.00	27.61	6.62	34.18	36.34	36.39	74.00	37.61	Peak
4	2402.85	27.61	6.64	34.18	92.30	92.37	74.00	-18.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 855
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

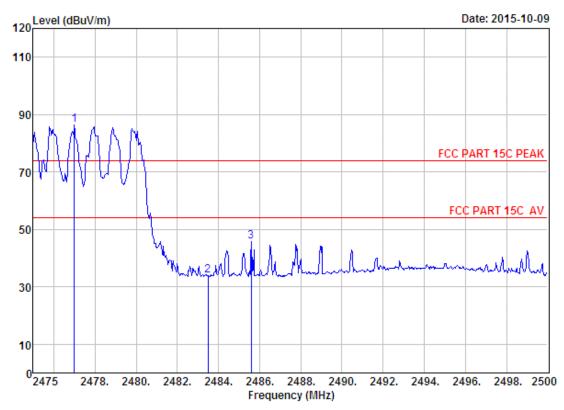
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2402MHz (Hopping On)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.68	27.64	6.62	34.19	42.03	42.10	74.00	31.90	Peak
2	2390.00	27.64	6.62	34.19	34.47	34.54	74.00	39.46	Peak
3	2400.00	27.61	6.62	34.18	36.38	36.43	74.00	37.57	Peak
4	2408.90	27.60	6.64	34.15	94.44	94.53	74.00	-20.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 856
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

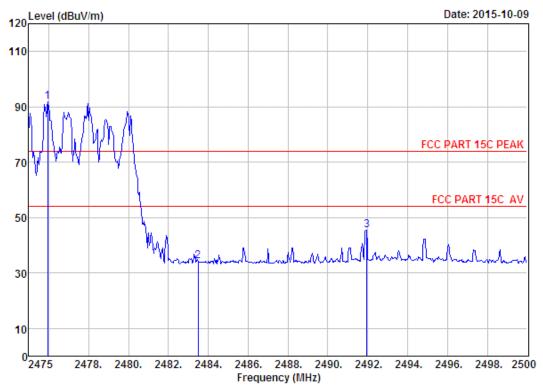
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq.		Loss		Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2477.00	27.58	6.71	34.03	86.09	86.35	74.00	-12.35	Peak
2	2483.50	27.58	6.71	34.03	33.78	34.04	74.00	39.96	Peak
3	2485.60	27.58	6.71	34.03	45.59	45.85	74.00	28.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 857
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

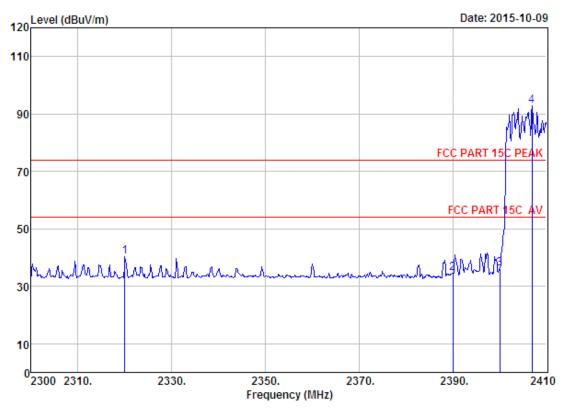
Power : DC 12V M/N : K17

Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq.		Loss	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.95	27.58	6.71	34.06	91.72	91.95	74.00	-17.95	Peak
2	2483.50	27.58	6.71	34.03	34.06	34.32	74.00	39.68	Peak
3	2491.95	27.58	6.73	34.03	45.19	45.47	74.00	28.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 860
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

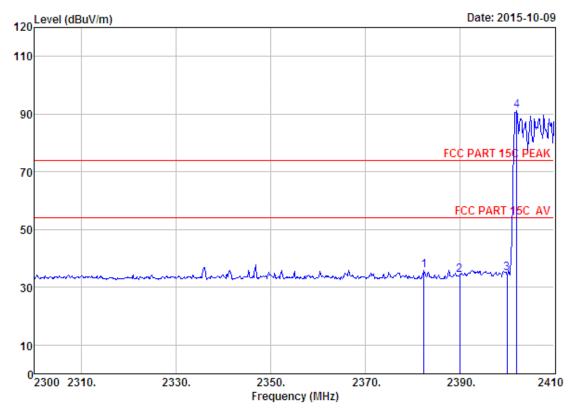
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz (Hopping On)

Freq.	Factor	Loss	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2320.02	27.76	6.54	34.24	40.31	40.37	74.00	33.63	Peak
2390.00	27.64	6.62	34.19	34.48	34.55	74.00	39.45	Peak
2400.00	27.61	6.62	34.18	36.21	36.26	74.00	37.74	Peak
2406.92	27.61	6.64	34.18	92.74	92.81	74.00	-18.81	Peak
	(MHz) 2320.02 2390.00 2400.00	Freq. Factor (MHz) (dB/m) 2320.02 27.76 2390.00 27.64 2400.00 27.61	Freq. Factor Loss (MHz) (dB/m) (dB) 2320.02 27.76 6.54 2390.00 27.64 6.62 2400.00 27.61 6.62	(MHz) (dB/m) (dB) (dB) 2320.02 27.76 6.54 34.24 2390.00 27.64 6.62 34.19 2400.00 27.61 6.62 34.18	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 2320.02 27.76 6.54 34.24 40.31 2390.00 27.64 6.62 34.19 34.48	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 2320.02 27.76 6.54 34.24 40.31 40.37 2390.00 27.64 6.62 34.19 34.48 34.55 2400.00 27.61 6.62 34.18 36.21 36.26	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 2320.02 27.76 6.54 34.24 40.31 40.37 74.00 2390.00 27.64 6.62 34.19 34.48 34.55 74.00 2400.00 27.61 6.62 34.18 36.21 36.26 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 2320.02 27.76 6.54 34.24 40.31 40.37 74.00 33.63 2390.00 27.64 6.62 34.19 34.48 34.55 74.00 39.45 2400.00 27.61 6.62 34.18 36.21 36.26 74.00 37.74

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 861
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

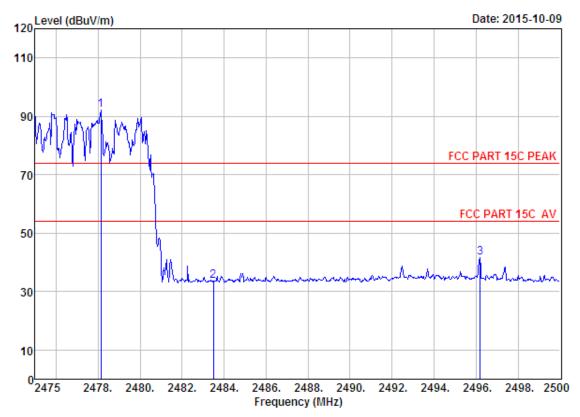
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2402MHz (Hopping On)

	Freq.		Loss	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2382.50	27.64	6.60	34.19	35.76	35.81	74.00	38.19	Peak
2	2390.00	27.64	6.62	34.19	34.13	34.20	74.00	39.80	Peak
3	2400.00	27.61	6.62	34.18	34.68	34.73	74.00	39.27	Peak
4	2402.08	27.61	6.62	34.18	91.27	91.32	74.00	-17.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 858
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony
EUT : CAR AUDIO PLAYER

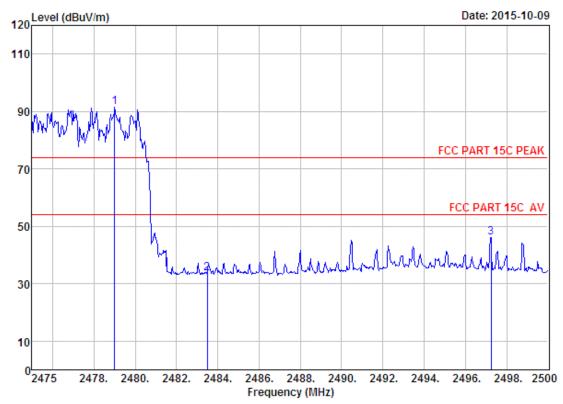
Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq. (MHz)			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2478.13	27.58	6.71	34.03	91.77	92.03	74.00	-18.03	Peak
2	2483.50	27.58	6.71	34.03	33.46	33.72	74.00	40.28	Peak
3	2496.20	27.57	6.73	34.00	41.46	41.76	74.00	32.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 859
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : CAR AUDIO PLAYER

Power : DC 12V M/N : K17

Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq.			Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2	2479.00 2483.50 2497.25	27.58	6.71	34.03	33.40	91.55 33.66 46.21	74.00 74.00 74.00	-17.55 40.34 27.79	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



10. ANTENNA REQUIREMENTS

10.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2.Result

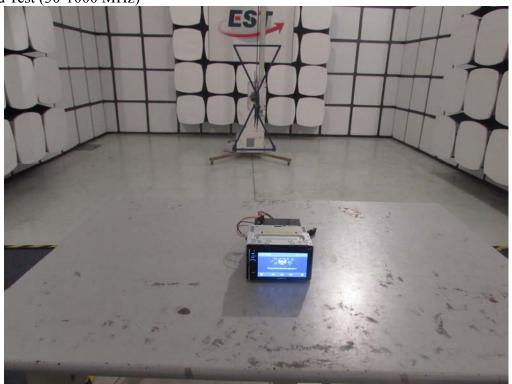
The antennas used for this product are Integrated PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1dBi.

EST Technology Co., Ltd Report No. ESTE-R1510005 Page 93 of 105

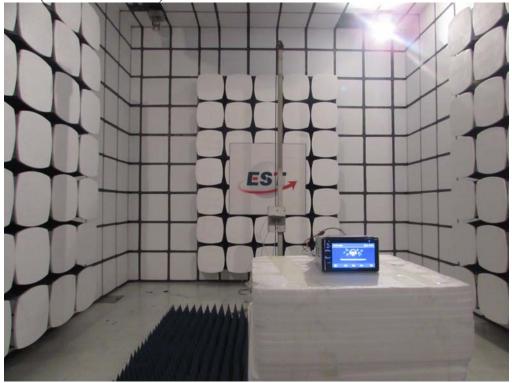


11. TEST SETUP PHOTO

Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)





EST Technology Co., Ltd Report No. ESTE-R1510005

12.PHOTOS OF EUT

External Photos M/N: K17

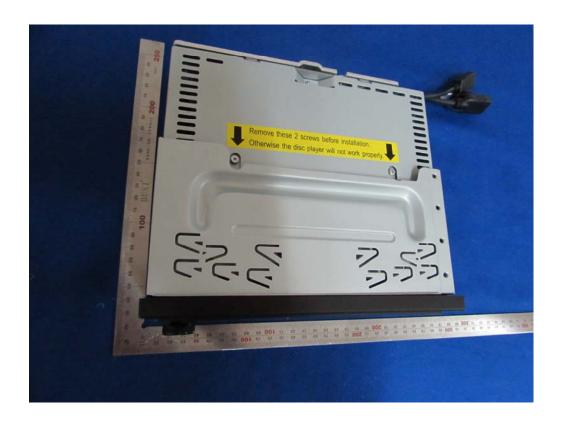




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External Photos



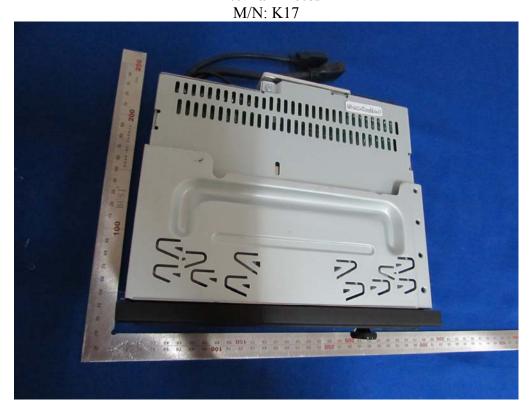


External Photos





External Photos





Internal Photos











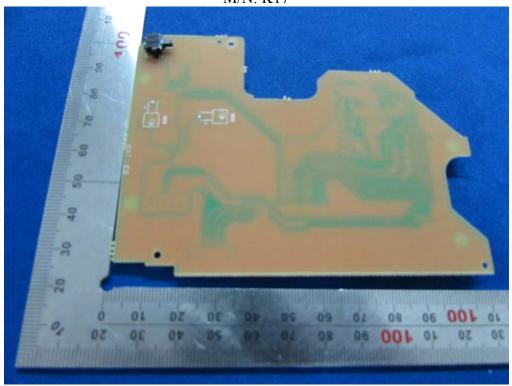






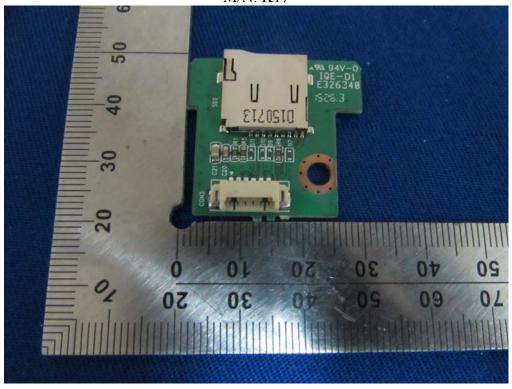


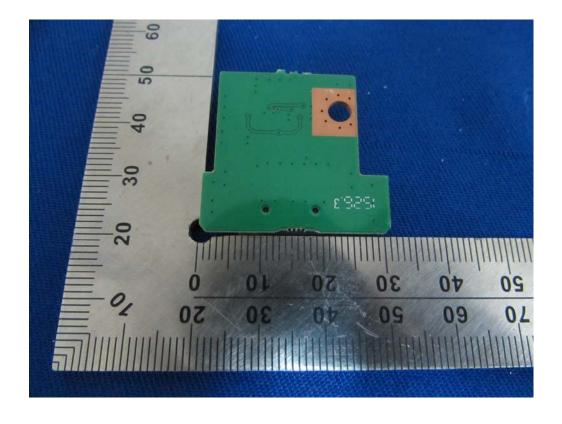
M/N: K17



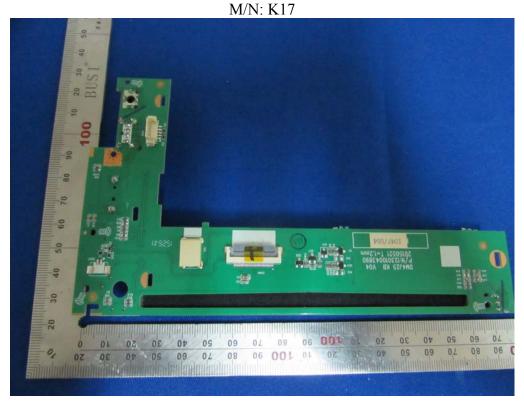


EST





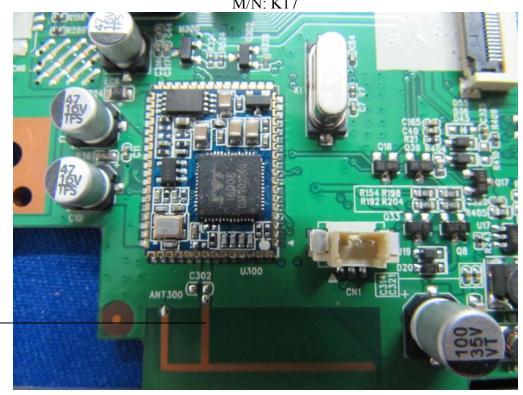








Internal Photos M/N: K17



Bluetooth Antenna

EST Technology Co., Ltd Report No. ESTE-R1510005 Page 105 of 105