

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD.

Car Multimedia Player

Model Number:VX3016

FCC ID: 2AEIN-VX3016

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Report Number : ESTE-R1704025
Date of Test :March 09,2017~ April 06,2017
Date of Report : April 11,2017

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Test Report Verification

| | | | |
|--|--|---|------------------------------|
| Applicant: Address: | HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD. North Shangxia Road, Dongjiang Hi tech Industry Park Huizhou China | | |
| Manufacturer Address: | HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD. North Shangxia Road, Dongjiang Hi tech Industry Park Huizhou China | | |
| E.U.T: | Car Multimedia Player | | |
| Model Number: | VX3016 | | |
| Power Supply: | DC 12V | | |
| Test Voltage: | DC 12V | | |
| Trade Name: | JENSEN | Serial No.: | ----- |
| Date of Receipt: | March 09,2017 | Date of Test: | March 09,2017~ April 06,2017 |
| Test Specification: | FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013 | | |
| Test Result: | <p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST 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 FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> <p style="text-align: right;">Date: April 11, 2017</p> | | |
| Prepared by: | Tested by: | Approved by: | |
|  |  |  | |
| Amy / Assistant | Tony.Tang/ Engineer | IcemanHu / Manager | |
| Other Aspects: | None. | | |
| <i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i> | | | |
| <i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i> | | | |

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name : Car Multimedia Player

Model Number : VX3016

FCC ID : 2AEIN-VX3016

Operation frequency : 2402MHz~2480MHz

Number of channel : 79

Antenna : Internal antenna, 0 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 C63.10: 2013 DA 00-705 | N/A |
| Antenna requirement | FCC Part 15: 15.203 | PASS |
| <p>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.</p> | | |

2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA
Registration No.: L5288
Date of registration: December 07, 2015

Certificated by FCC, USA
Registration No.: 989591
Date of registration: November 15, 2016

Certificated by Industry Canada
Registration No.: 9405A-1
Date of registration: December 30, 2015

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) | 3.62dB |
| Uncertainty for Radiation Emission test (1GHz to 18GHz) | 4.86dB |
| 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.

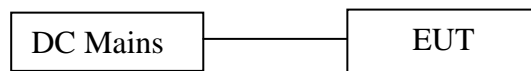
2.4. Assistant equipment used for test

2.4.1.

| Trade Name | Model Number | Power Supply |
|------------|--------------|--------------|
| YUASA | NPW45-12FR | DC12/45W |

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into BT test mode by software before test.



(EUT: Car Multimedia 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 |
|--------|---------|-----------|
| GFSK | Low | 2402MHz |
| | Middle | 2441MHz |
| | High | 2480MHz |
| 8-DPSK | Low | 2402MHz |
| | Middle | 2441MHz |
| | High | 2480MHz |

2.7. Channel List for Bluetooth

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (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,28,16 | 1 Year |
| Artificial Mains Networ | Rohde & Schwarz | ENV216 | 101260 | June,28,16 | 1 Year |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 101100 | June,28,16 | 1 Year |
| Battery | YUASA | NPW45-12FR | 12032239 | N/A | N/A |

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,28,16 | 1 Year |
| Spectrum Analyzer | Agilent | E4411B | MY5014069 7 | June,28,16 | 1 Year |
| Bilog Antenna | Teseq | CBL 6111D | 27090 | June,28,16 | 1 Year |
| Signal Amplifier | Agilent | 310N | 187037 | June,28,16 | 1 Year |
| Battery | YUASA | NPW45-12FR | 12032239 | N/A | N/A |

2.8.3. For radiated emission test(above 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------|--------------|-------------|-------------------|------------|-----------|
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA9120D1 002 | June,28,16 | 1 Year |
| Signal Amplifier | SCHWARZBECK | BBV9718 | 9718-212 | June,28,16 | 1 Year |
| Spectrum Analyzer | Agilent | E4408B | MY44211139 | June,28,16 | 1 Year |
| Battery | YUASA | NPW45-12FR | 12032239 | N/A | N/A |

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

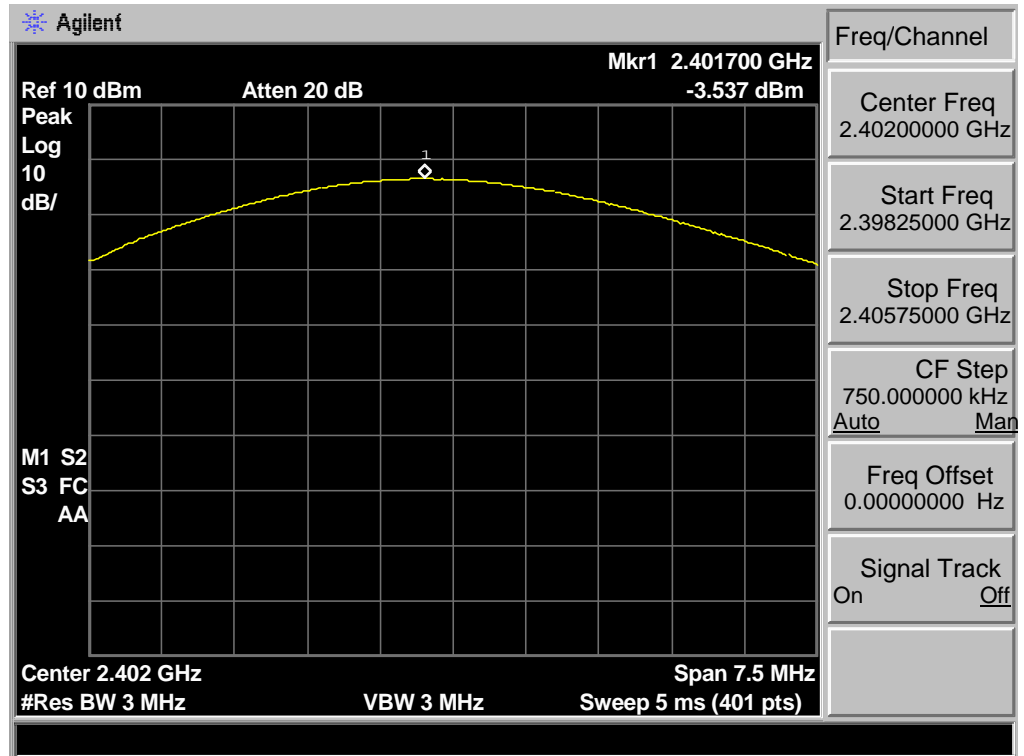
The transmitter output (antenna port) was connected to the spectrum analyzer

3.3. Test Result

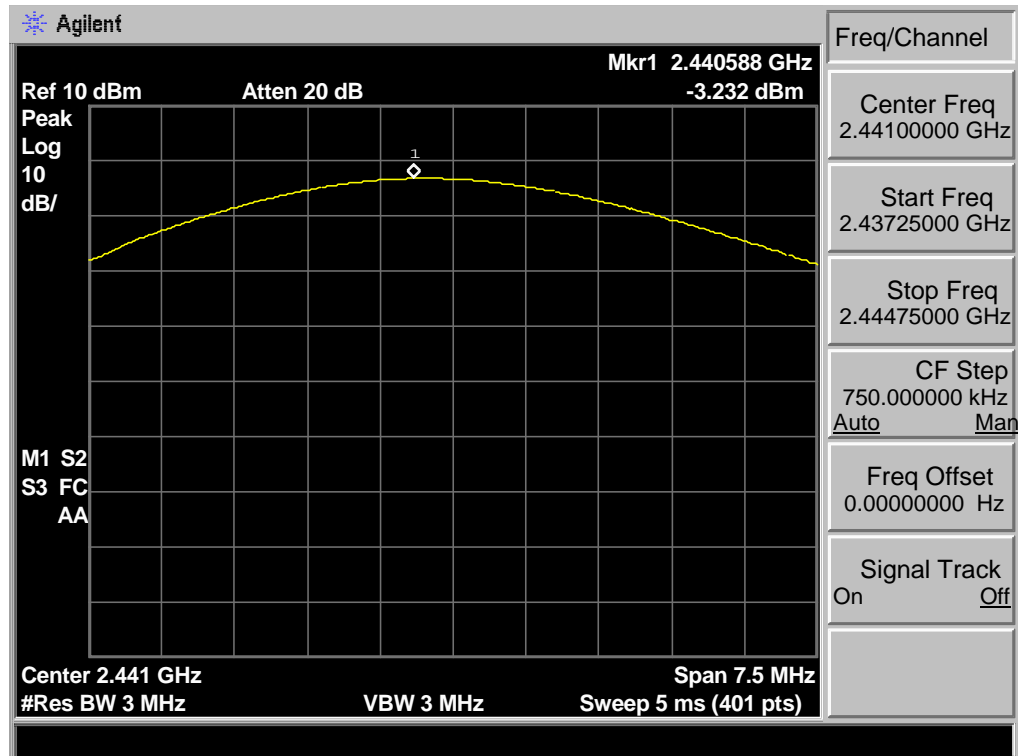
| EUT: Car Multimedia Player | | | | | |
|----------------------------|------------|--------------------|-------|----------------------|-------------|
| M/N: VX3016 | | | | | |
| Test date: 2017-03-15 | | Test site: RF site | | Tested by: Tony Tang | |
| Mode | Freq (MHz) | Result (dBm) | Limit | | Margin (dB) |
| | | | dBm | W | |
| GFSK | 2402 | -3.537 | 30.00 | 1 | 33.537 |
| | 2441 | -3.232 | 30.00 | 1 | 33.232 |
| | 2480 | -3.251 | 30.00 | 1 | 33.251 |
| 8-DPSK | 2402 | -3.596 | 30.00 | 1 | 33.596 |
| | 2441 | -3.248 | 30.00 | 1 | 33.248 |
| | 2480 | -3.272 | 30.00 | 1 | 33.272 |
| Conclusion: PASS | | | | | |

3.4. Test Data

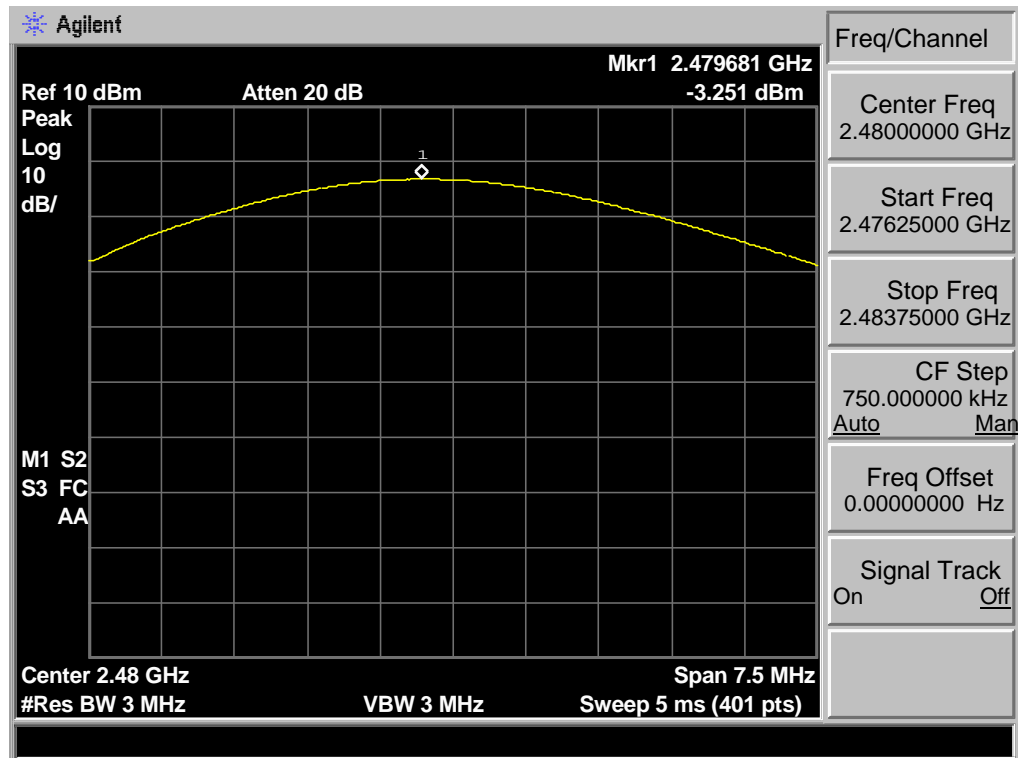
GFSK 2402 MHz



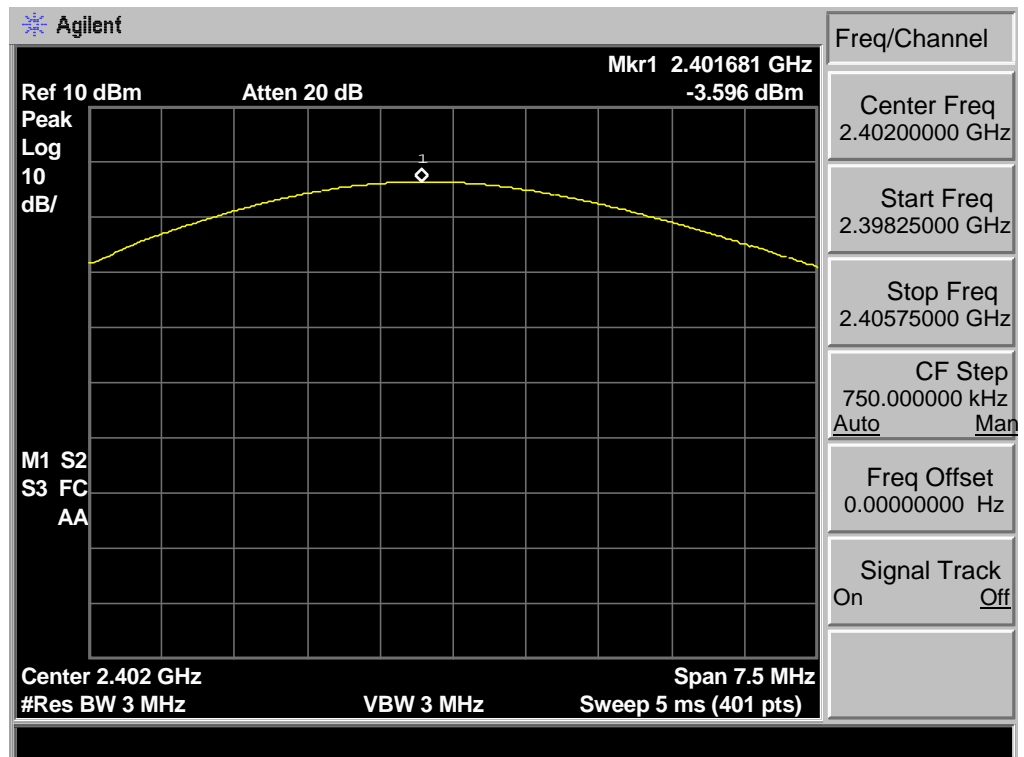
GFSK 2441 MHz



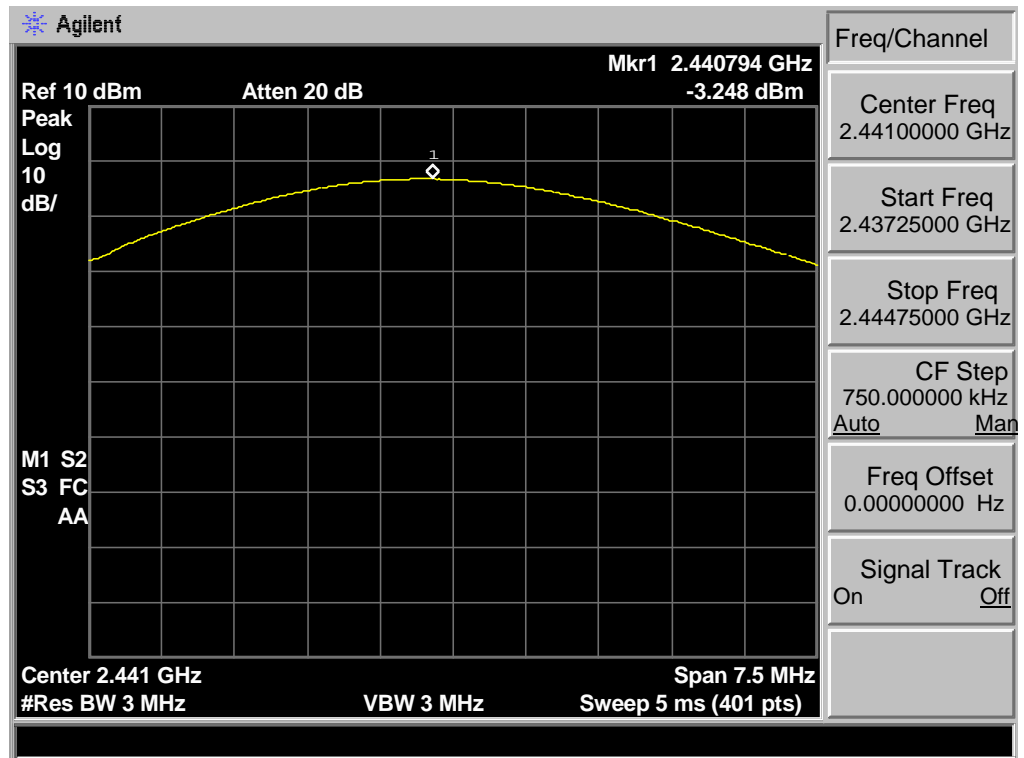
GFSK 2480 MHz



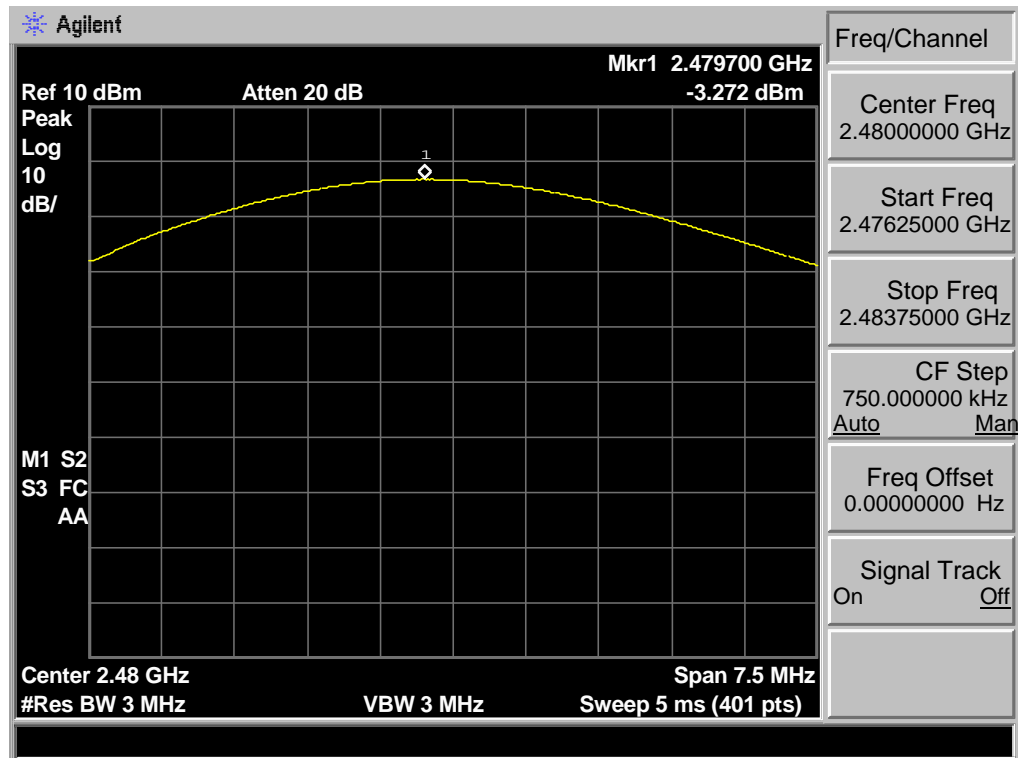
8-DPSK 2402 MHz



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

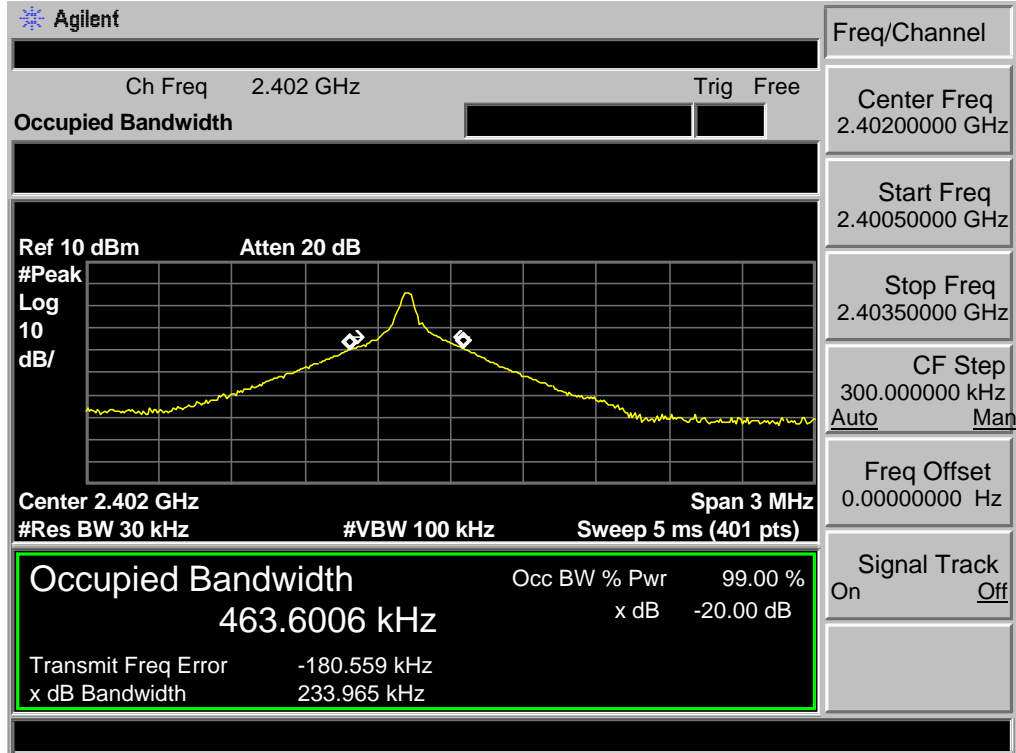
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

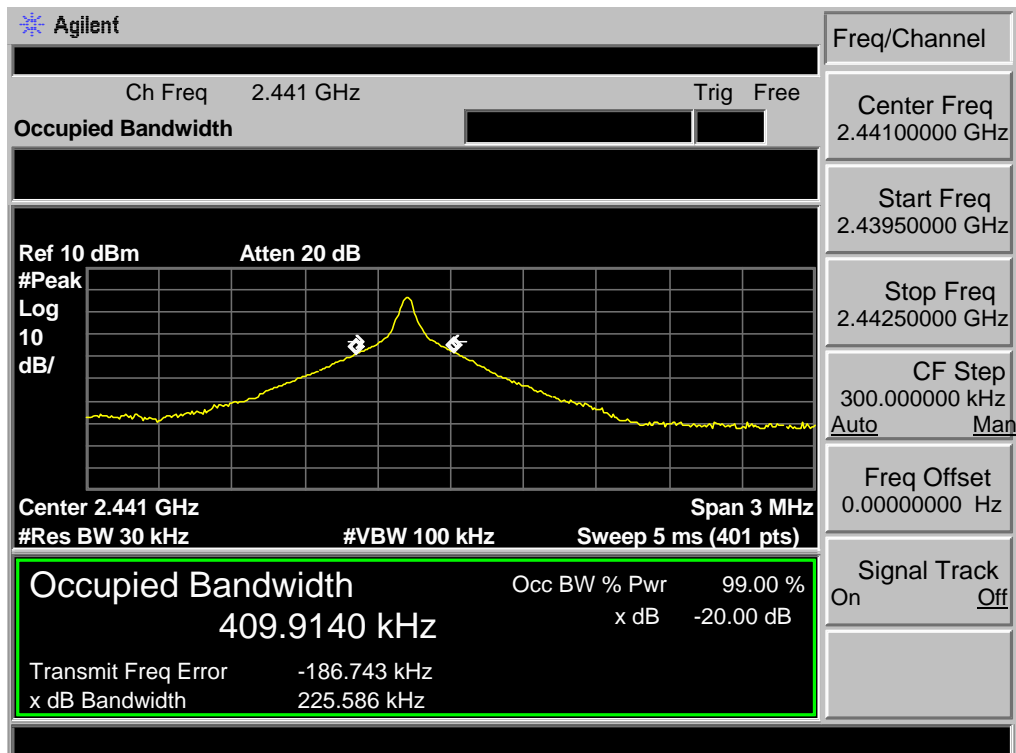
| EUT: Car Multimedia Player M/N: VX3016 | | | | |
|---|------------|----------------------|-------------|----------------------|
| Test date: 2017-03-15 | | Test site: RF site | | Tested by: Tony Tang |
| Mode | Freq (MHz) | 20dB Bandwidth (MHz) | Limit (kHz) | Conclusion |
| GFSK | 2402 | 0.234 | / | PASS |
| | 2441 | 0.226 | / | PASS |
| | 2480 | 0.202 | / | PASS |
| 8-DPSK | 2402 | 0.240 | / | PASS |
| | 2441 | 0.228 | / | PASS |
| | 2480 | 0.207 | / | PASS |

4.4. Test Data

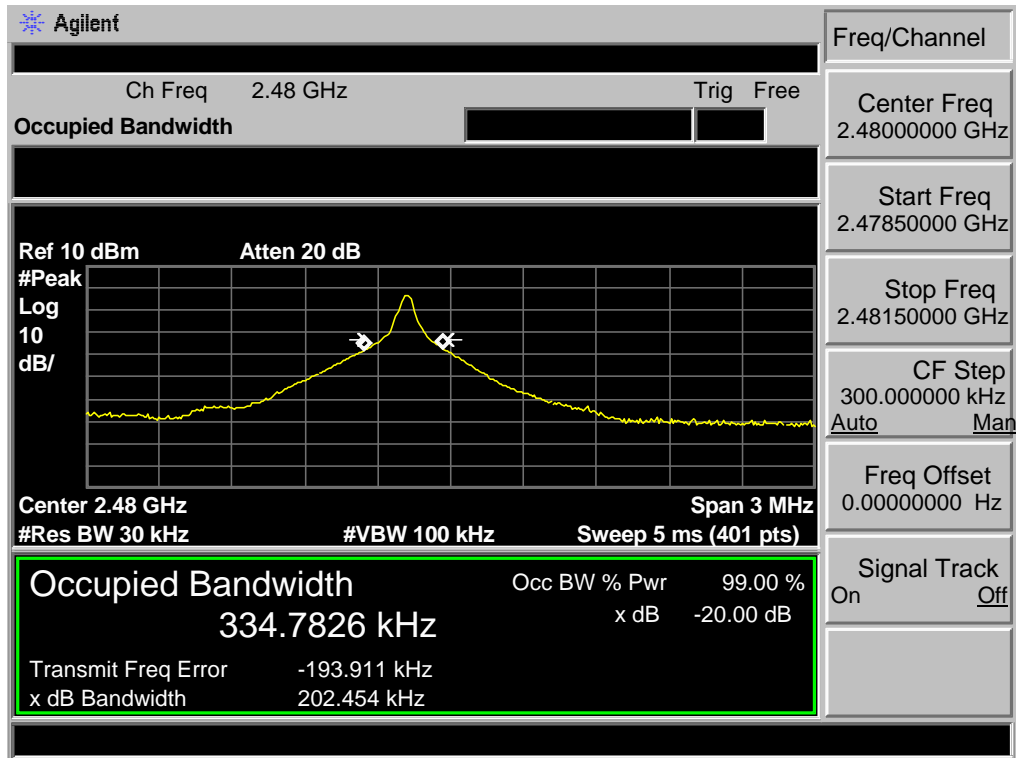
GFSK 2402MHz



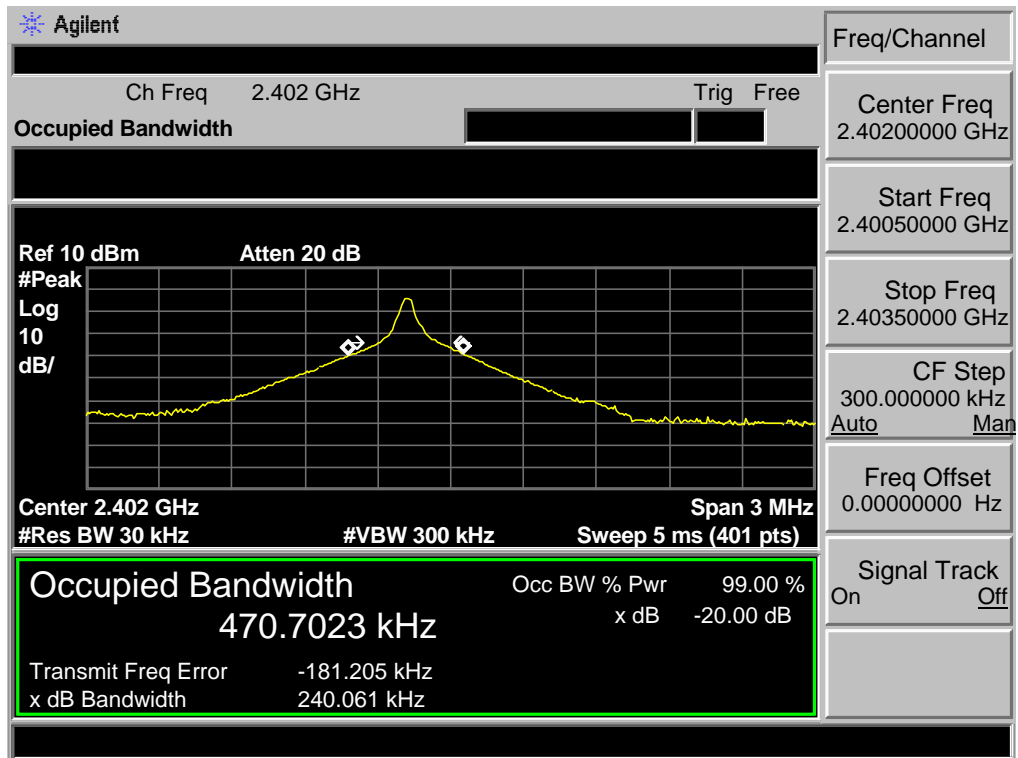
GFSK 2441MHz



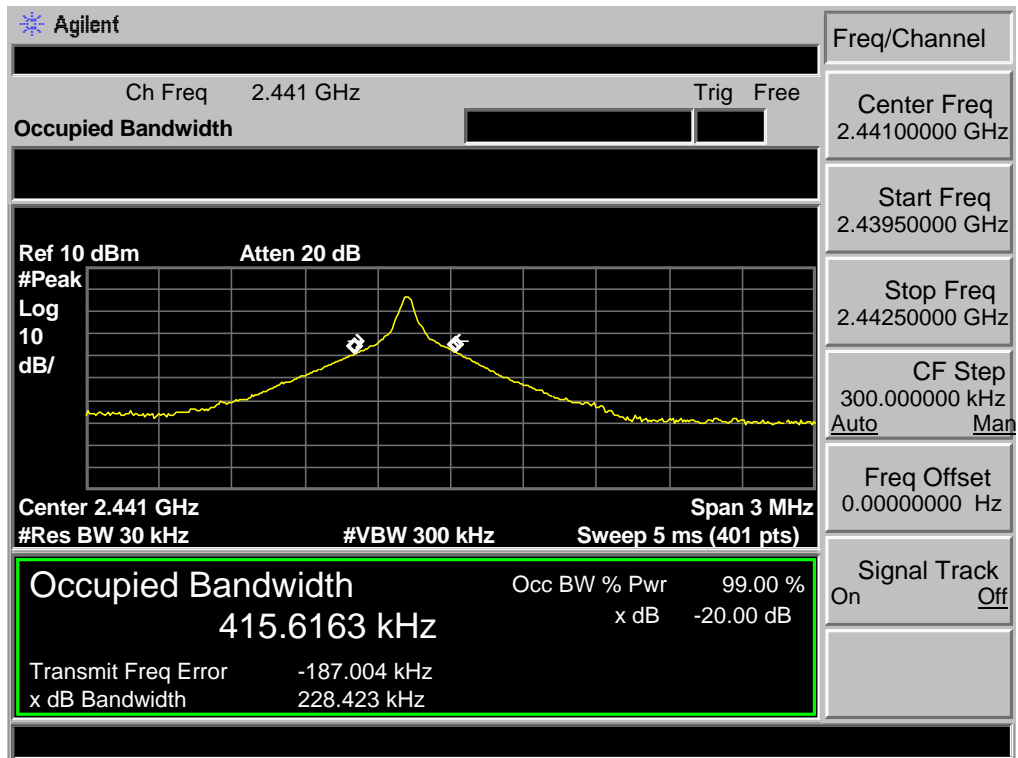
GFSK 2480MHz



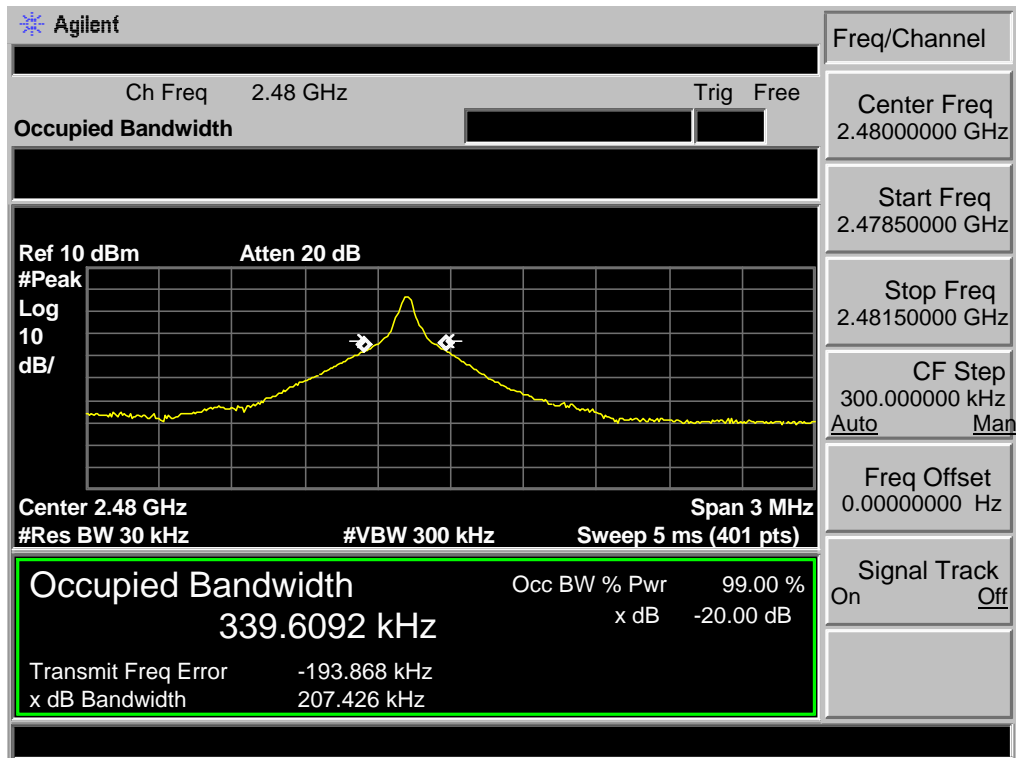
8-DPSK 2402MHz



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

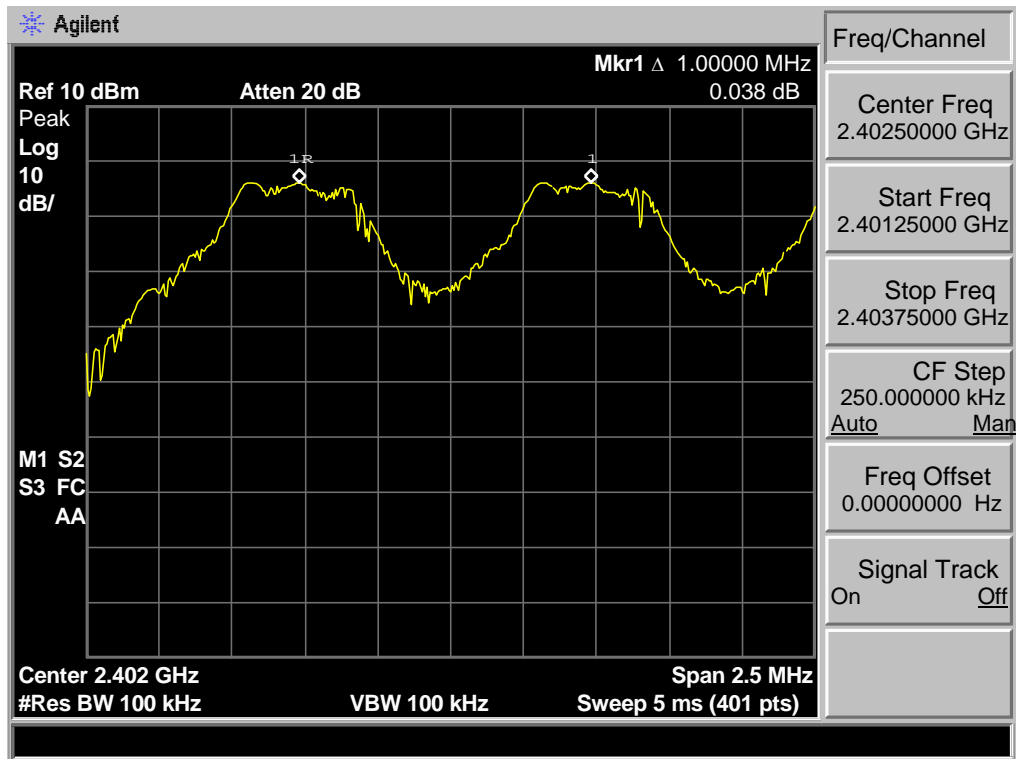
The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

5.3. Test Result

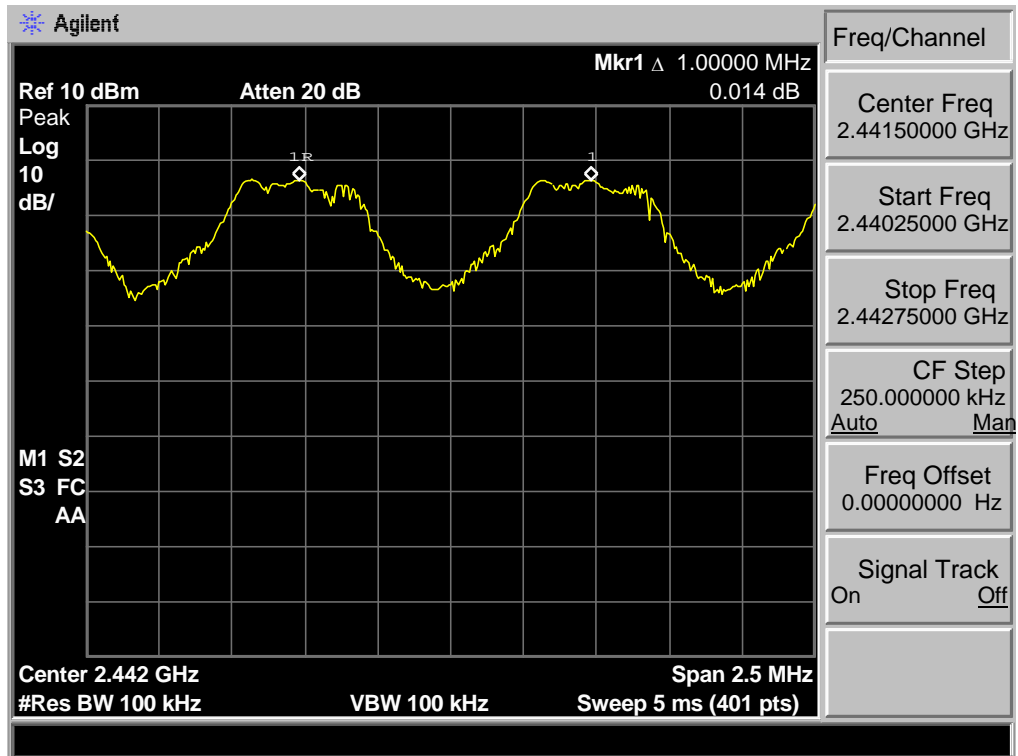
| EUT: Car Multimedia Player M/N:VX3016 | | | | |
|--|---------|--------------------------|----------|----------------------|
| Test date: 2017-03-15 | | Test site: RF site | | Tested by: Tony Tang |
| Mode | Channel | Channel separation (MHz) | Limit | Conclusion |
| GFSK | Low CH | 1.000 | 0.234MHz | PASS |
| | Mid CH | 1.000 | 0.226MHz | PASS |
| | High CH | 1.000 | 0.202MHz | PASS |
| 8-DPSK | Low CH | 1.000 | 0.240MHz | PASS |
| | Mid CH | 1.000 | 0.228MHz | PASS |
| | High CH | 1.000 | 0.207MHz | PASS |

5.4. Test Data

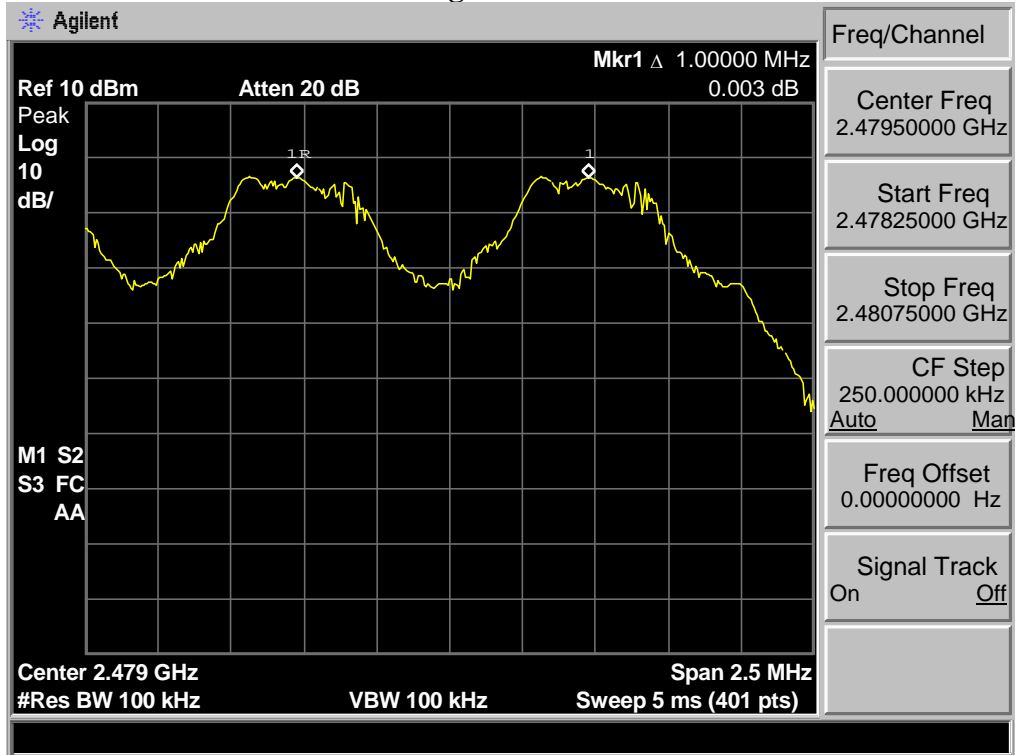
GFSK
Low Channel



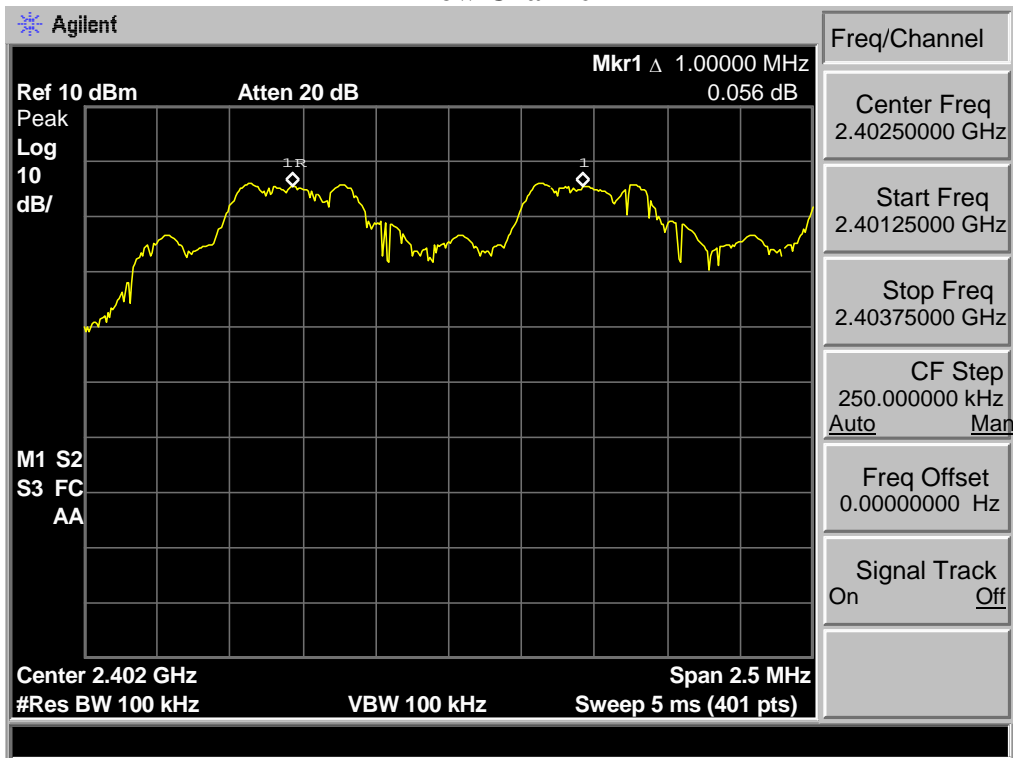
Mid Channel



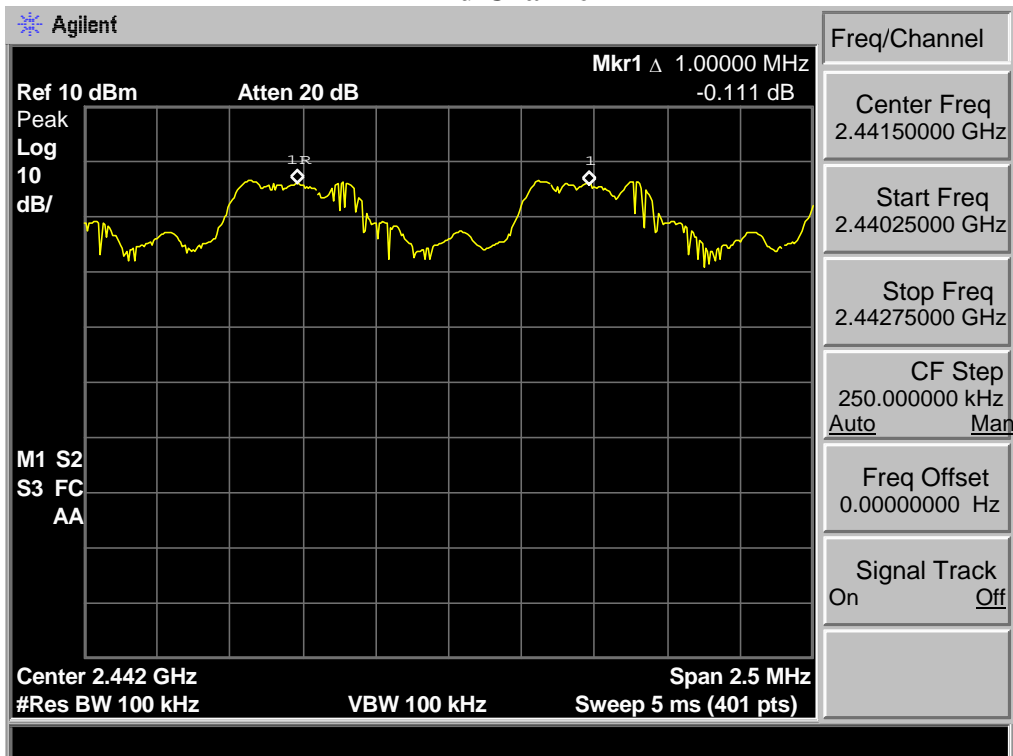
High Channel



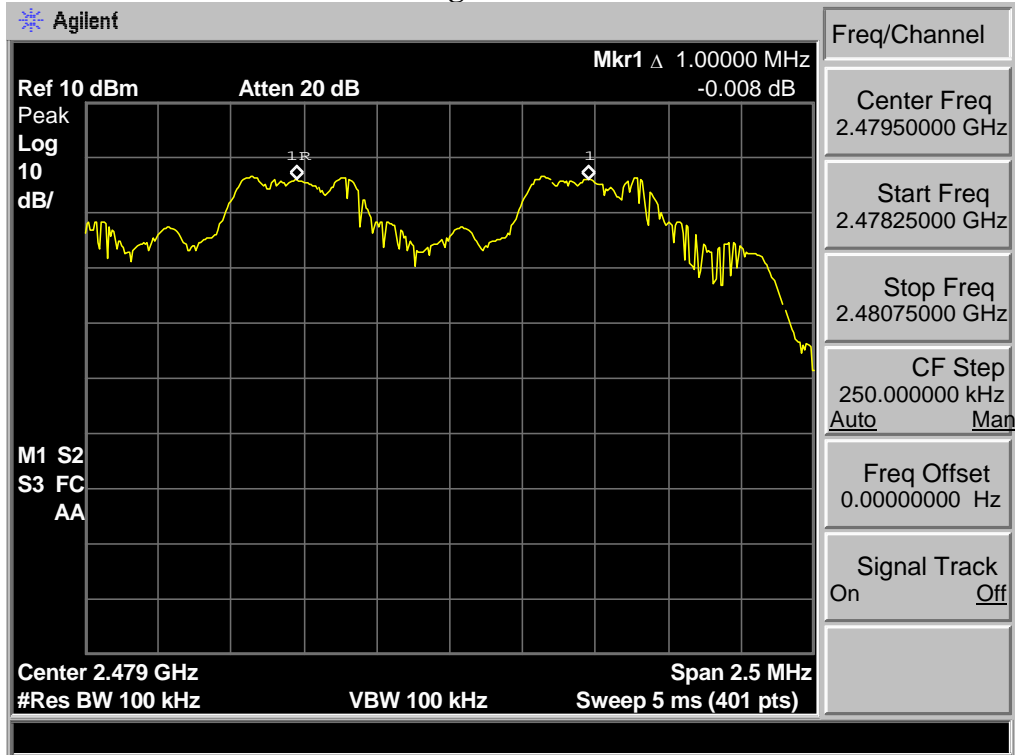
8-DPSK Low Channel



Mid Channel



High 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

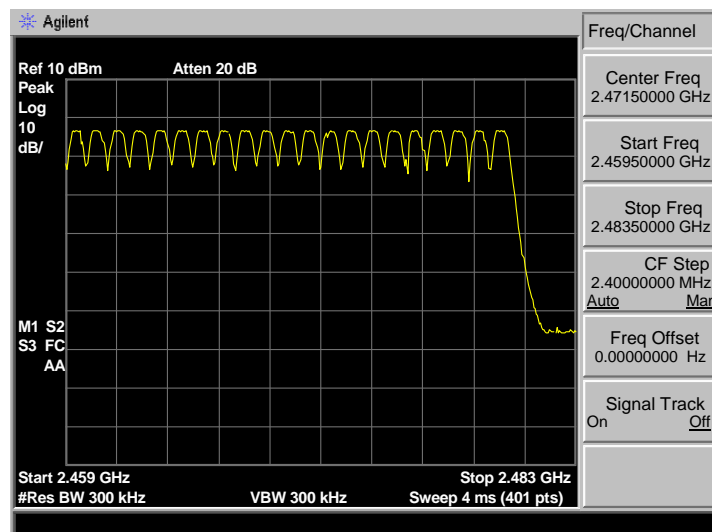
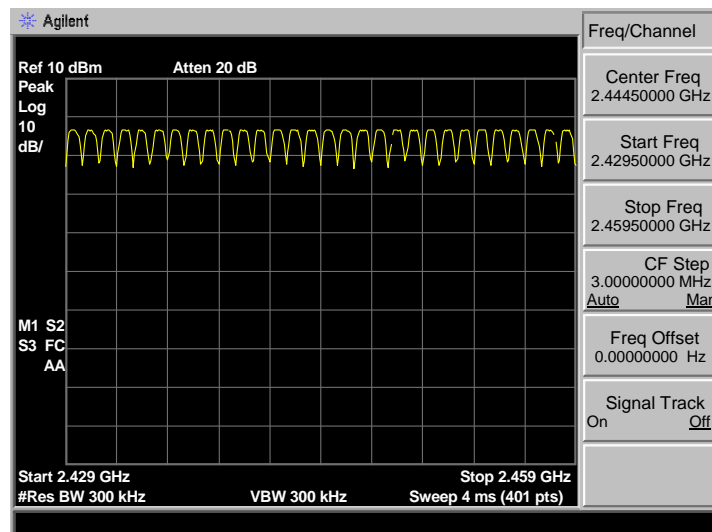
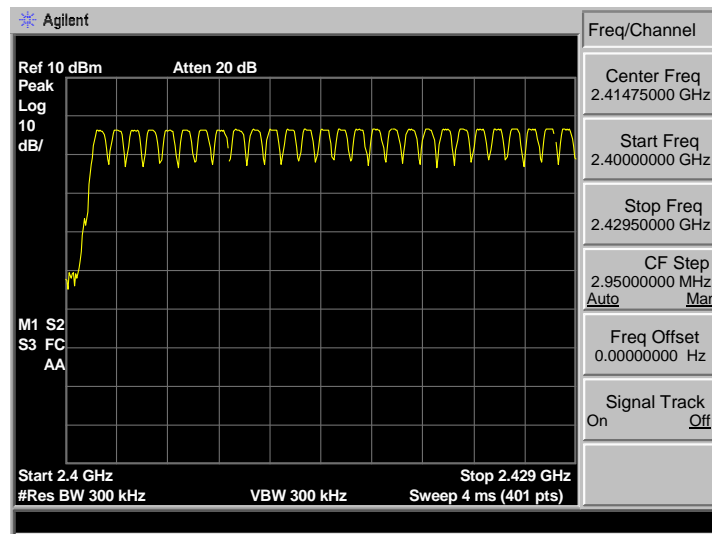
The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 300kHz VBW.

6.3. Test Result

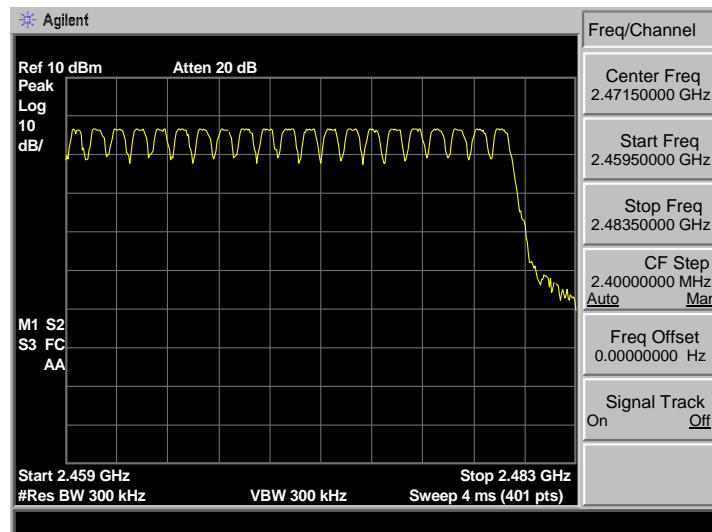
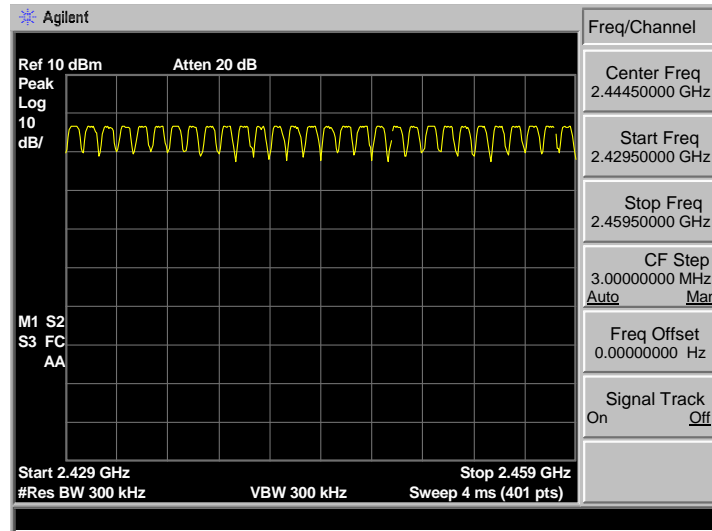
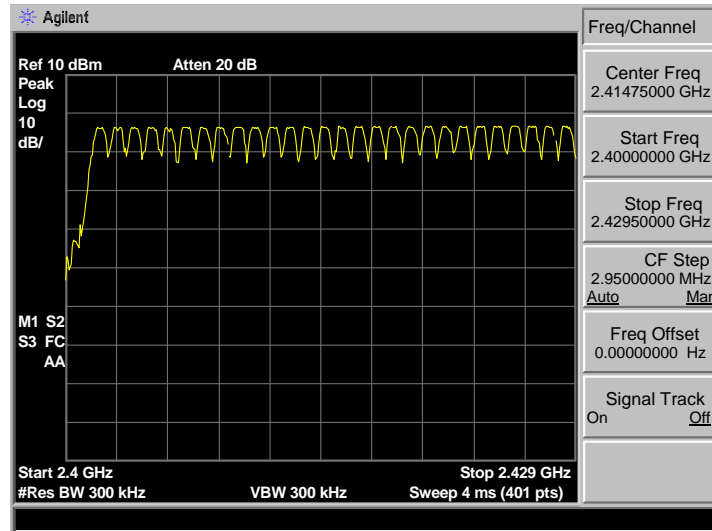
| EUT: Car Multimedia Player | | | |
|----------------------------|---------------------------|--------------------|----------------------|
| M/N:VX3016 | | | |
| Test date: 2017-03-15 | | Test site: RF site | Tested by: Tony.Tang |
| Mode | Number of hopping channel | Limit | Conclusion |
| GFSK | 79 | >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 Procedure

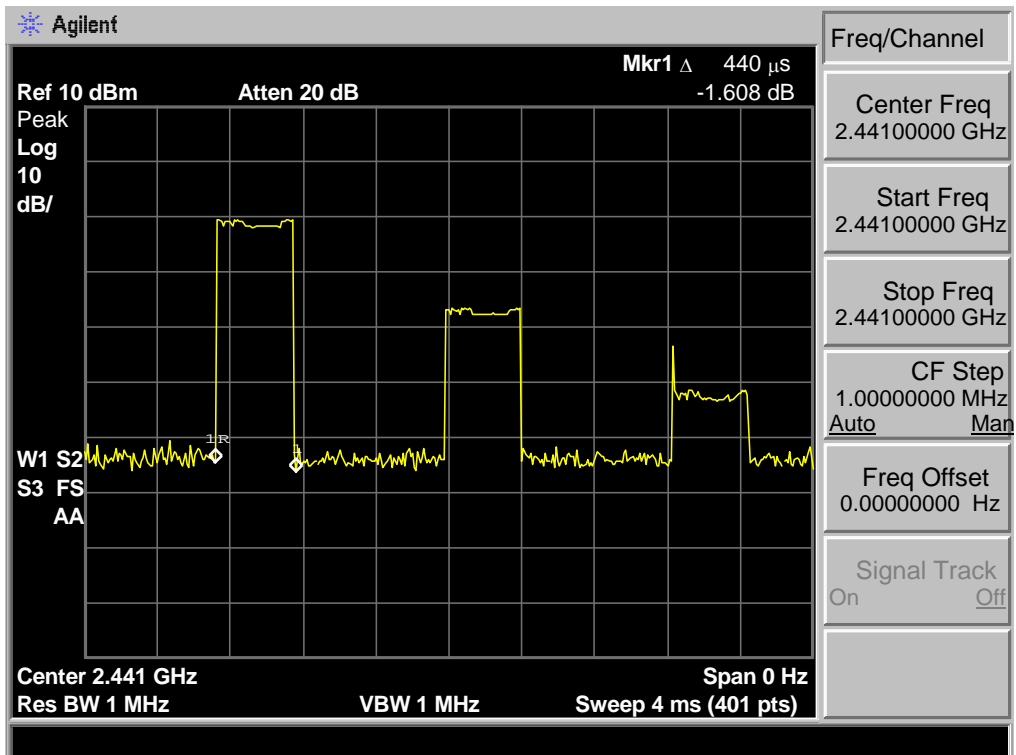
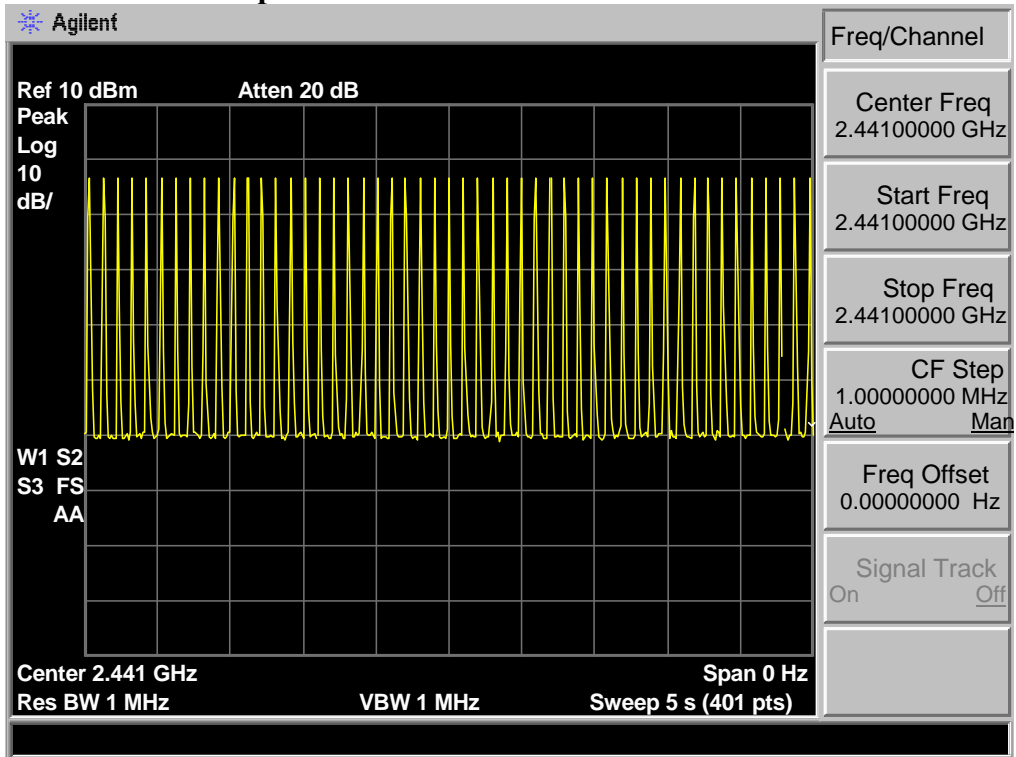
1. Connect the antenna port of the EUT to the spectrum analyzer by a low loss cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 1MHz, VBW= 1MHz, Frequency Span = 0 Hz.
4. Set sweep time properly to capture the entire dwell time per hopping channel.
5. Set detector type to Peak and trace mode to Max Hold and make the measurement.
6. Repeat step 3-5 until all channels measured were complete.

7.3. Test Result

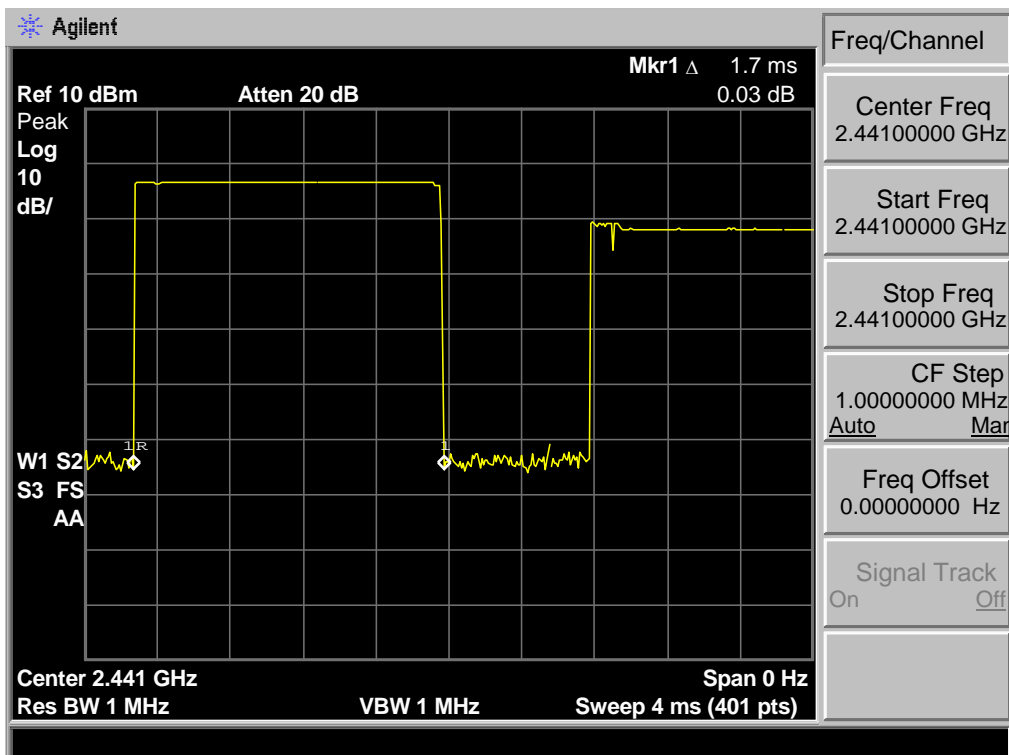
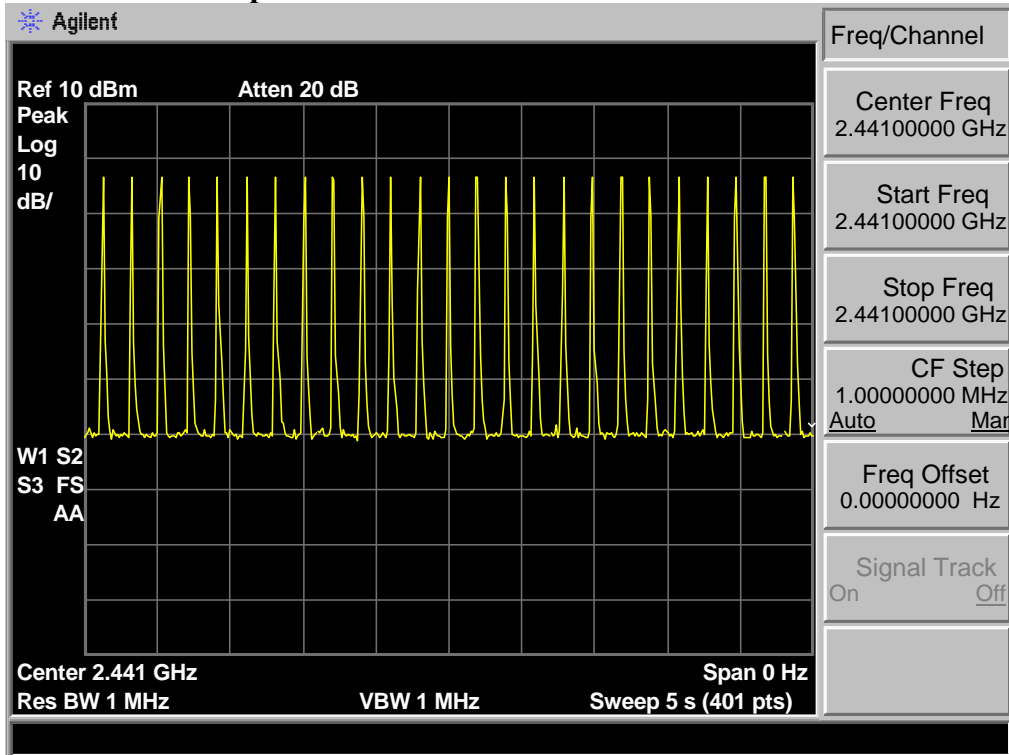
| EUT: Car Multimedia Player | | | |
|----------------------------|-----------------|--------------------|----------------------|
| M/N:VX3016 | | | |
| Test date: 2017-03-15 | | Test site: RF site | Tested by: Tony Tang |
| Mode | Dwell time (ms) | Limit | Conclusion |
| GFSK DH1 | 141.82 | <400ms | PASS |
| GFSK DH3 | 268.60 | <400ms | PASS |
| GFSK DH5 | 319.10 | <400ms | PASS |
| 8-DPSK 3DH1 | 145.36 | <400ms | PASS |
| 8-DPSK 3DH3 | 271.76 | <400ms | PASS |
| 8-DPSK 3DH5 | 318.02 | <400ms | PASS |

7.4. Test Data

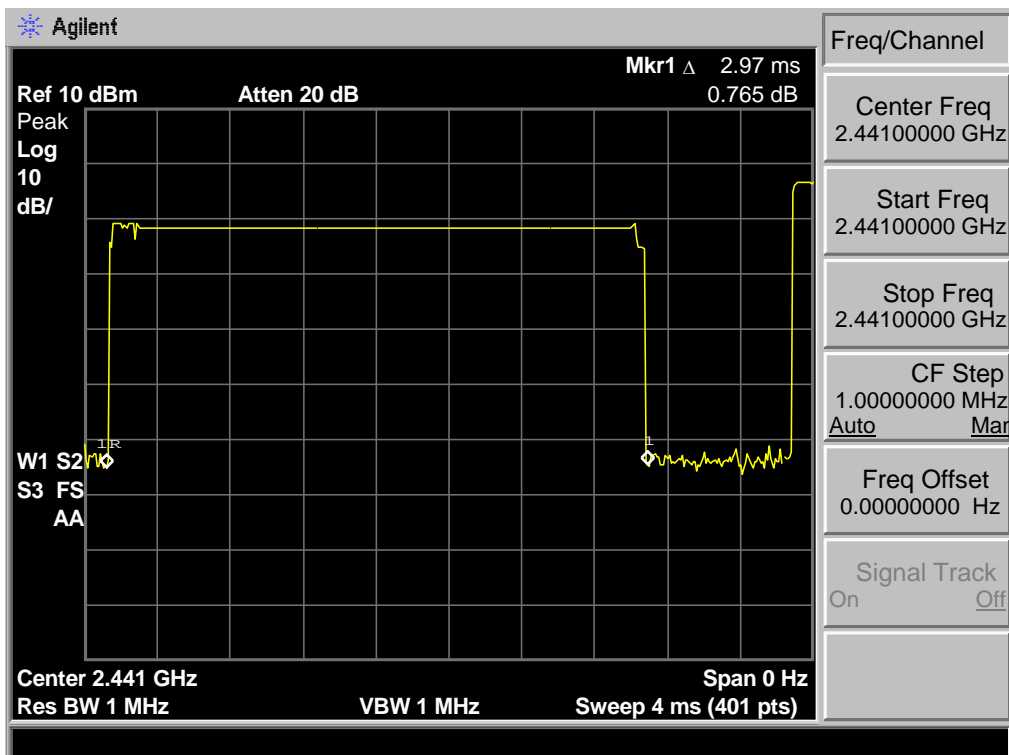
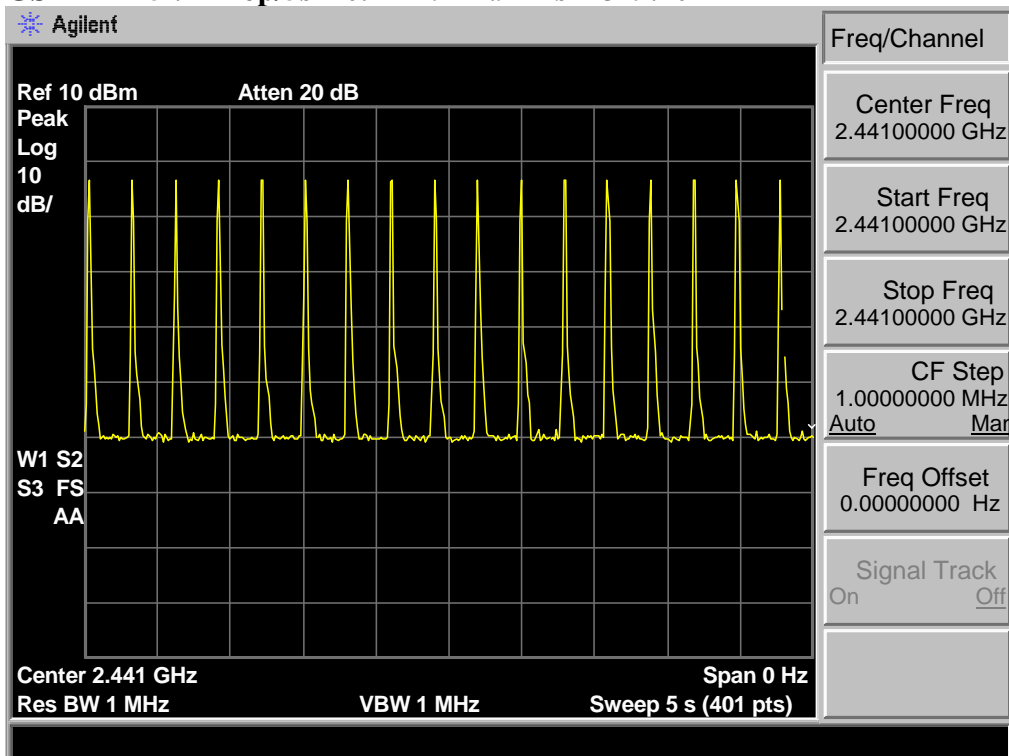
GFSK DH1 : 51hop/5s * 0.4 * 79 * 0.44ms =141.82



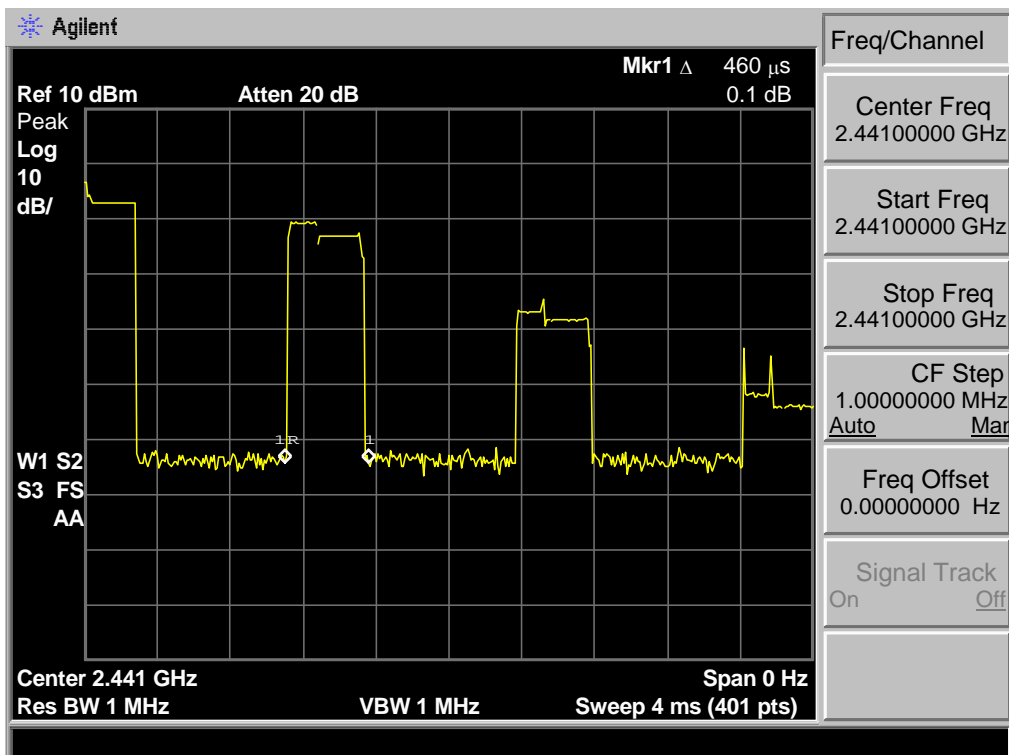
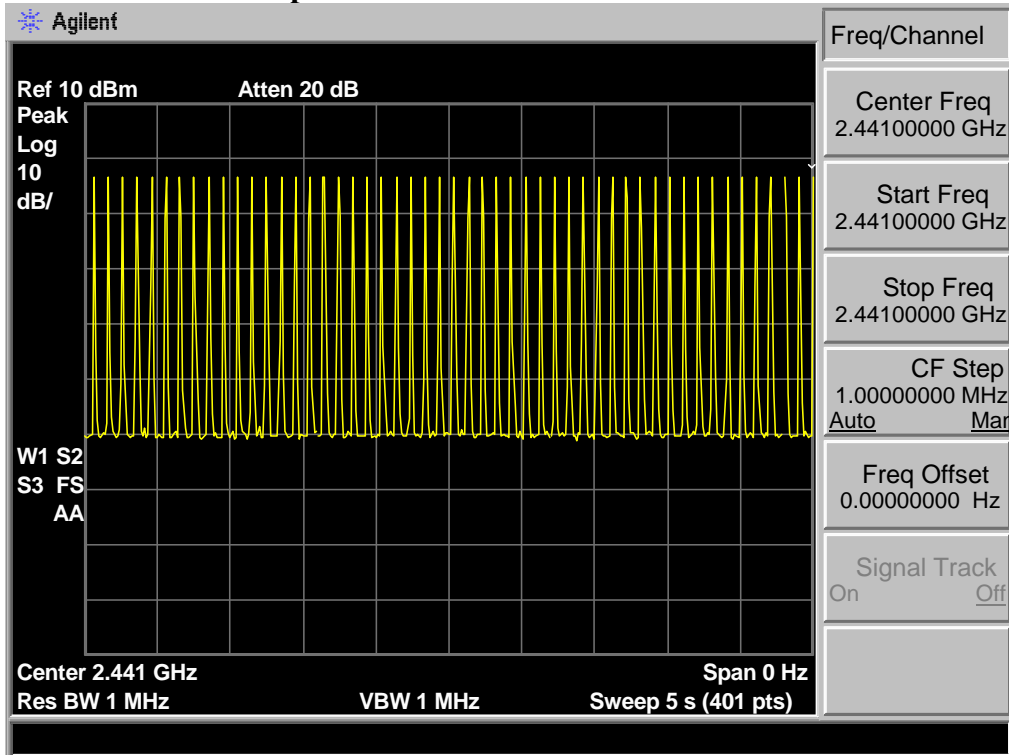
GFSK DH3 :25hop/5s * 0.4 * 79 * 1.70ms=268.60



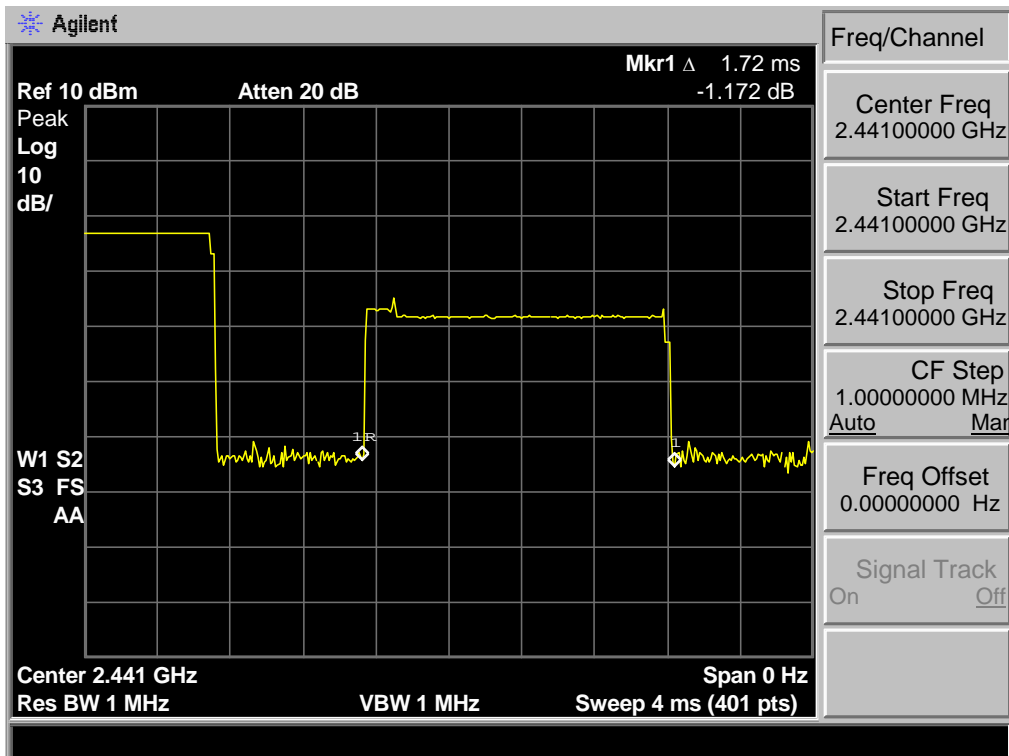
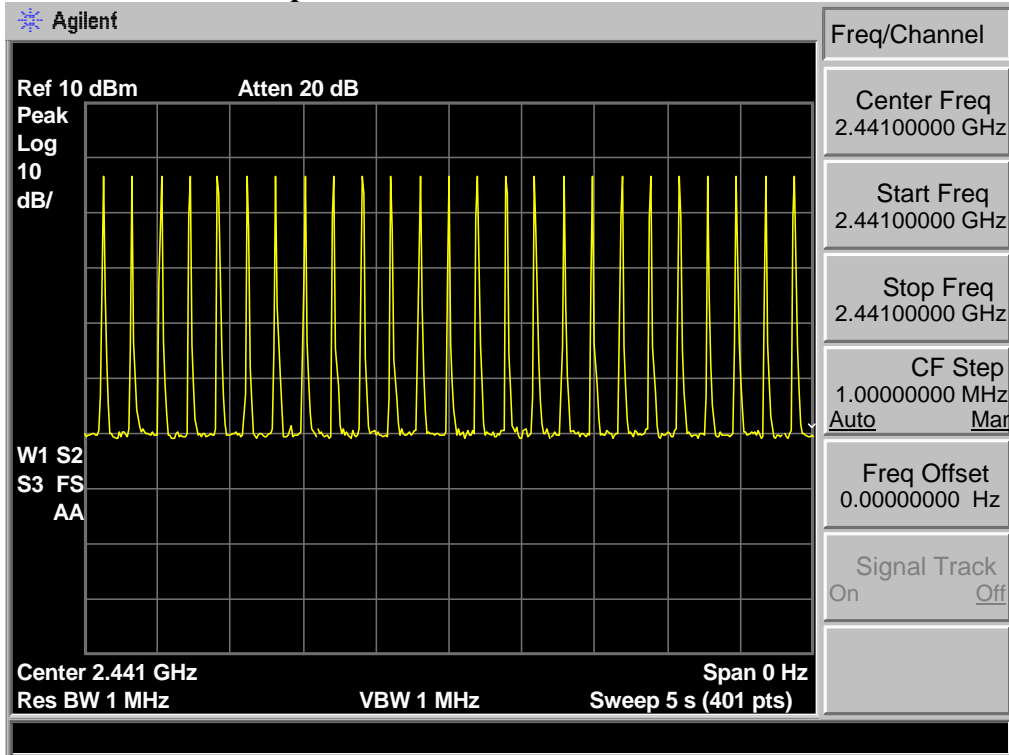
GSFK DH5 : 17hop/5s * 0.4 * 79 * 2.97ms = 319.10



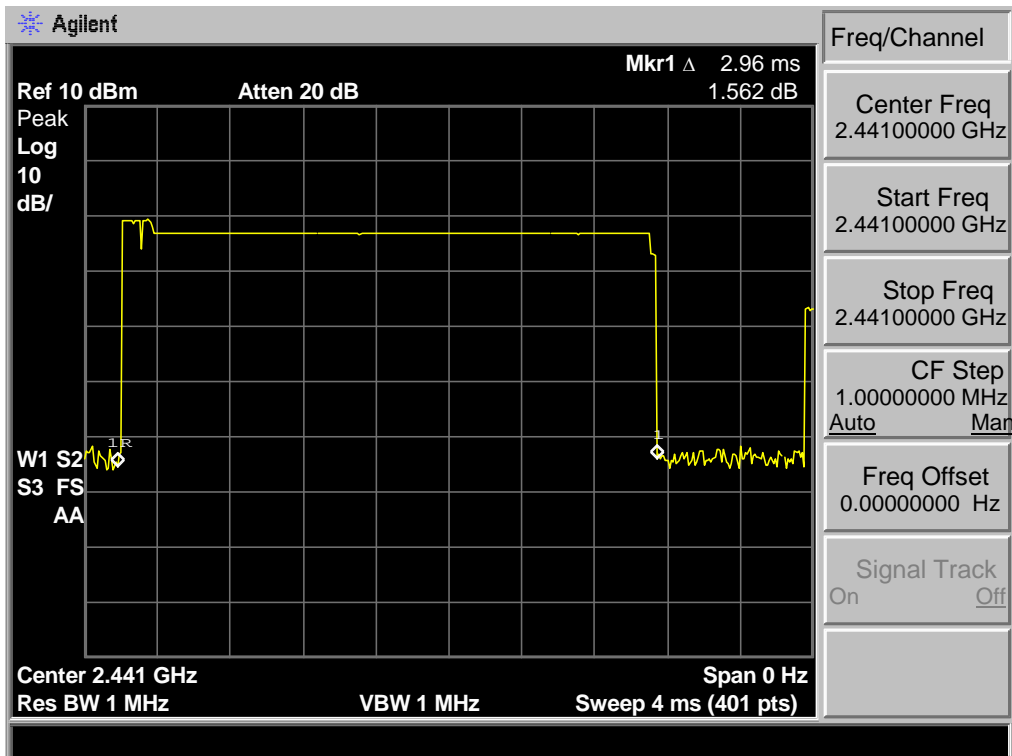
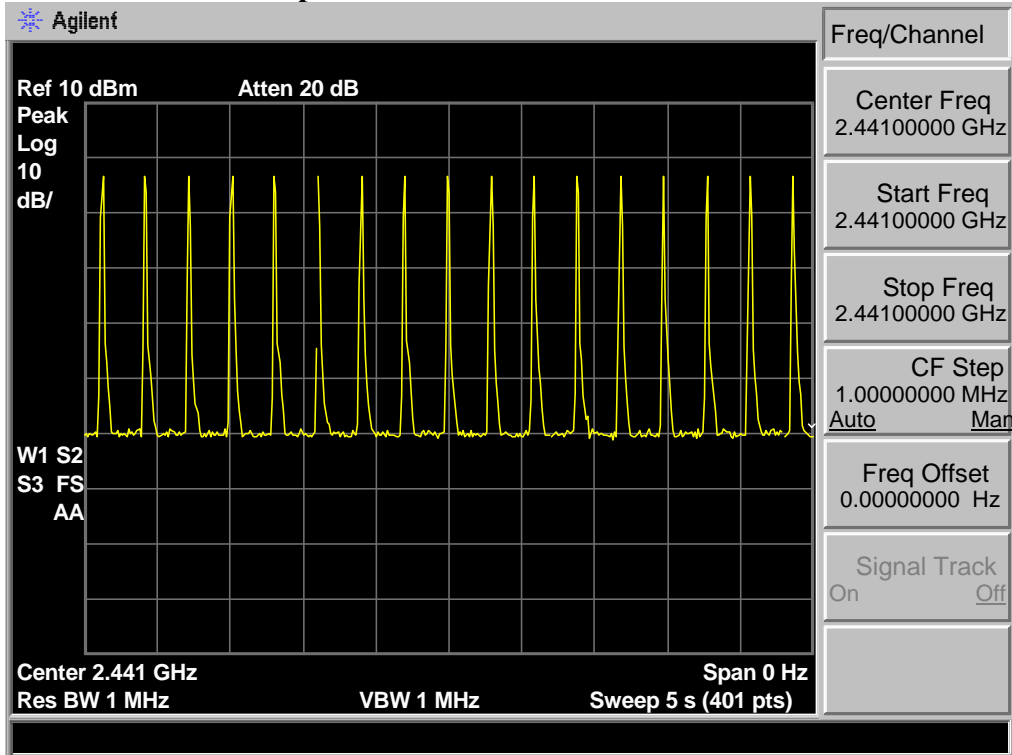
8-DPSK 3DH1 :50hop/5s * 0.4 * 79 *0.46ms = 145.36



8-DPSK 3DH3: 25hop/5s * 0.4 * 79 * 1.72ms = 271.76



8-DPSK 3DH5 : 17hop/5s * 0.4 * 79 * 2.96ms = 318.02



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

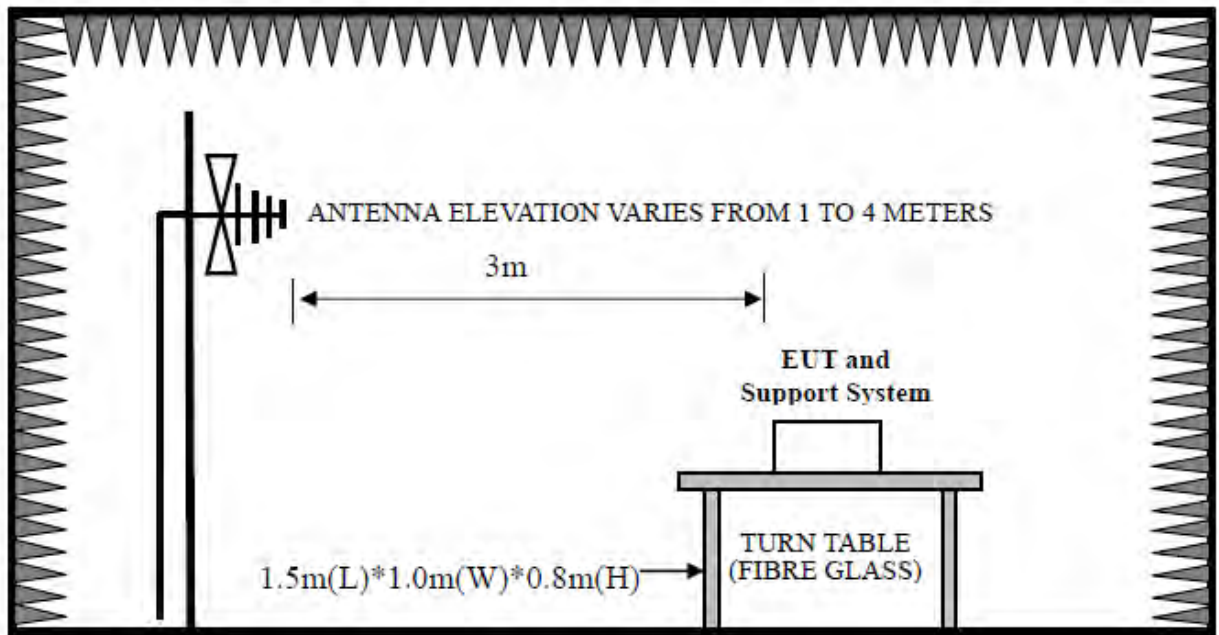
| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 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

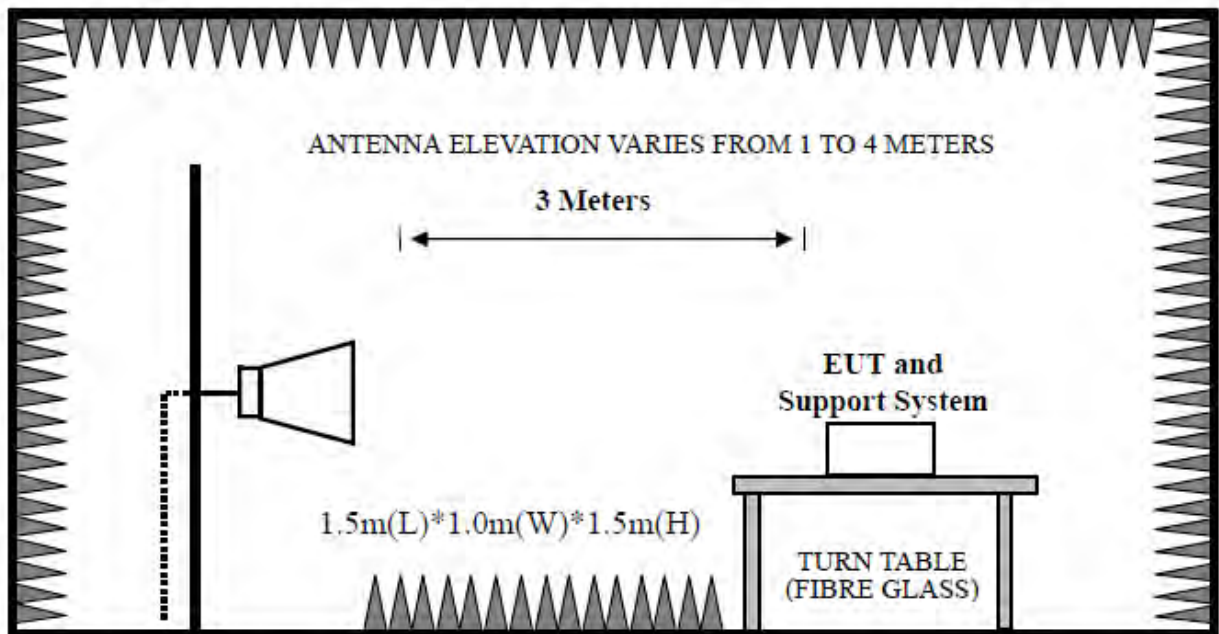
| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|-----------------------------------|
| | | $\mu\text{V}/\text{m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) | |

8.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 30~1000MHz test, and which 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 an 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.

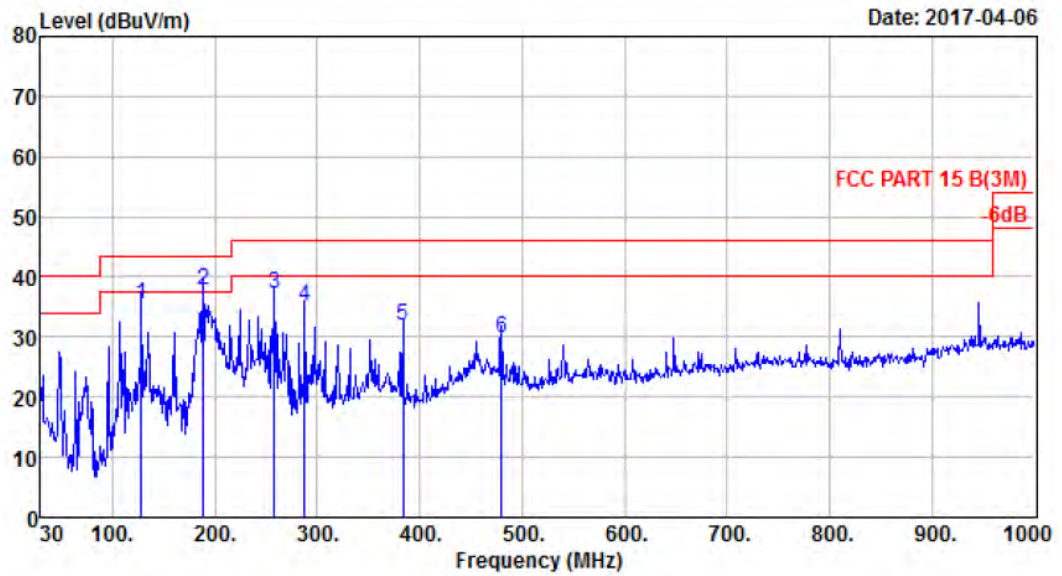
8.4. Test Result

| 30MHz—25GHz Radiated emission Test result | | |
|---|-----------------------|----------------------|
| EUT: Car Multimedia Player | | |
| M/N: VX3016 | | |
| Power: DC 12V | | |
| Test date: 2017-04-06 | 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

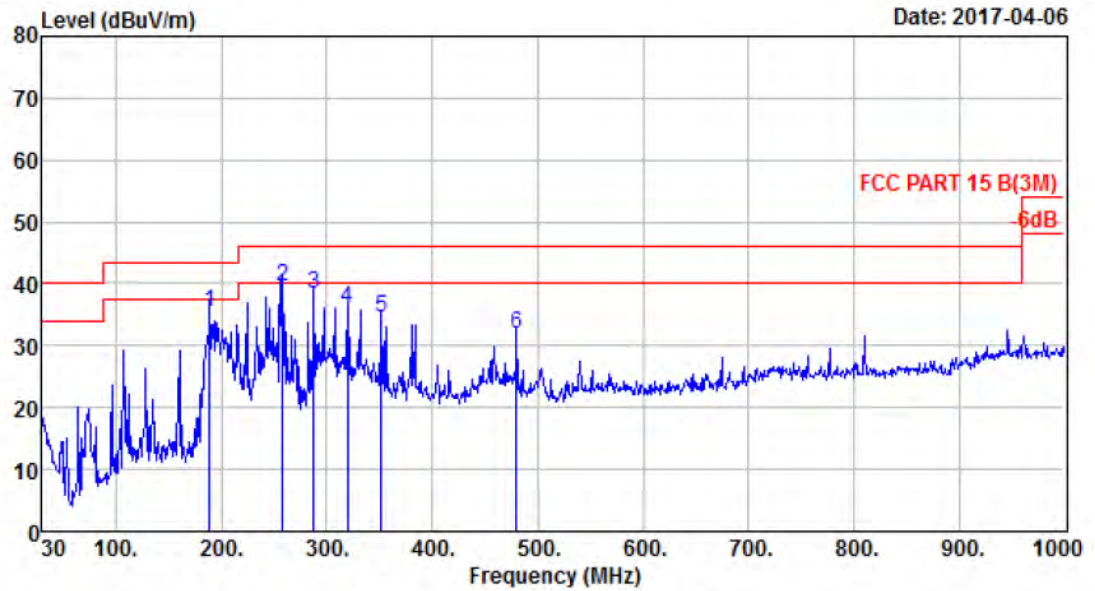
30 MHz – 1000 MHz



```

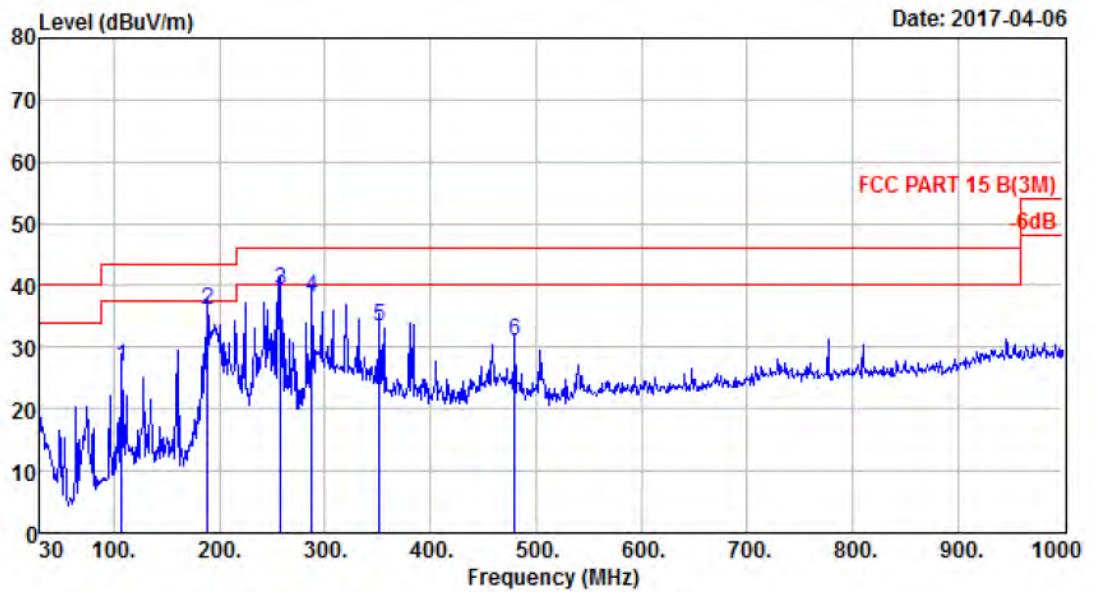
Site no.      : 1# 966 Chamber           Data no.   : 267
Dis. / Ant.   : 3m 27137                Ant. pol.  : VERTICAL
Limit        : FCC PART 15 B(3M)
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer     : Tony
EUT          : Car multimedia player
Power        : DC 12V
M/N         : VX3016
Test Mode    : GFSK TX 2402MHz
    
```

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 127.97 | 11.33 | 1.49 | 22.68 | 35.50 | 43.50 | 8.00 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 27.99 | 37.79 | 43.50 | 5.71 | QP |
| 3 | 257.95 | 12.75 | 2.19 | 22.24 | 37.18 | 46.00 | 8.82 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 20.04 | 35.01 | 46.00 | 10.99 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 13.90 | 31.78 | 46.00 | 14.22 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 9.40 | 29.95 | 46.00 | 16.05 | QP |



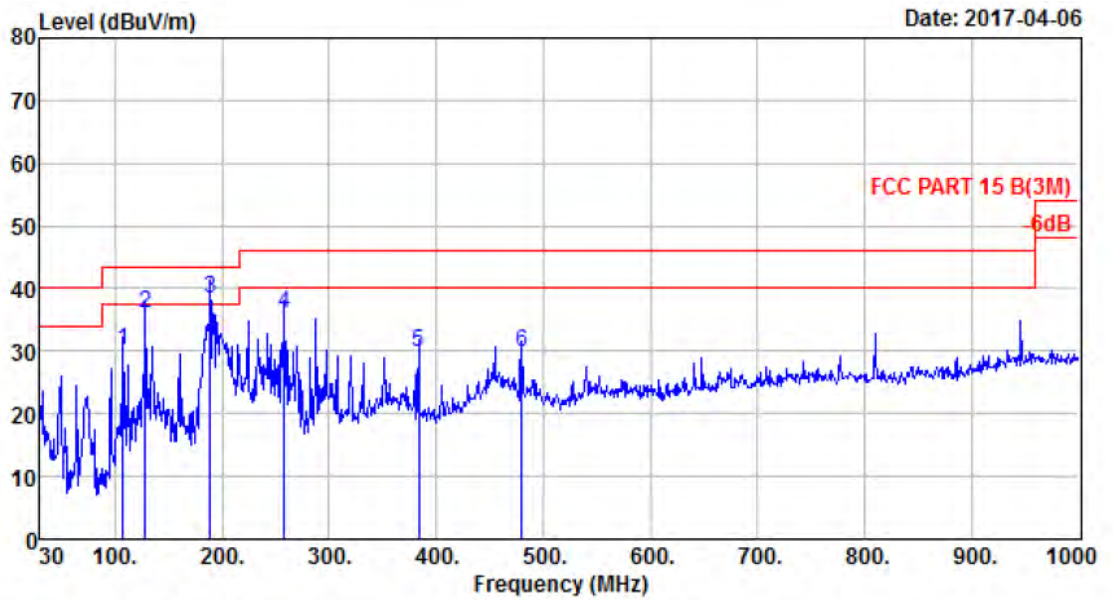
Site no. : 1# 966 Chamber Data no. : 268
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2402MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 189.08 | 8.05 | 1.75 | 25.72 | 35.52 | 43.50 | 7.98 | QP |
| 2 | 257.95 | 12.75 | 2.19 | 24.51 | 39.45 | 46.00 | 6.55 | QP |
| 3 | 288.02 | 12.66 | 2.31 | 23.43 | 38.40 | 46.00 | 7.60 | QP |
| 4 | 320.03 | 13.57 | 2.40 | 20.03 | 36.00 | 46.00 | 10.00 | QP |
| 5 | 352.04 | 14.47 | 2.53 | 17.41 | 34.41 | 46.00 | 11.59 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 11.21 | 31.76 | 46.00 | 14.24 | QP |



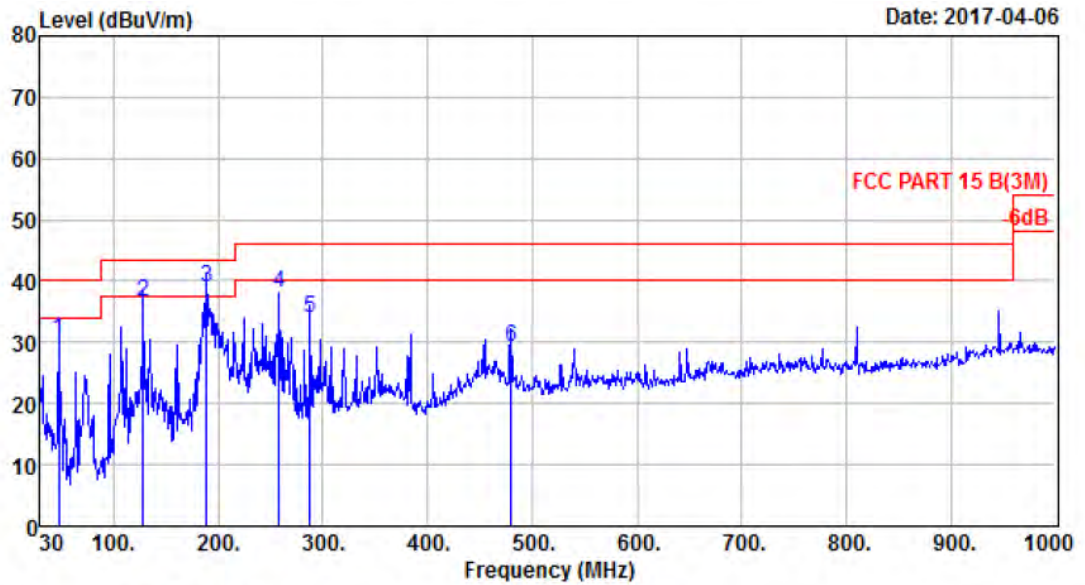
Site no. : 1# 966 Chamber Data no. : 269
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2441MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 107.60 | 10.24 | 1.39 | 15.22 | 26.85 | 43.50 | 16.65 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 26.12 | 35.92 | 43.50 | 7.58 | QP |
| 3 | 257.95 | 12.75 | 2.19 | 24.45 | 39.39 | 46.00 | 6.61 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 23.10 | 38.07 | 46.00 | 7.93 | QP |
| 5 | 352.04 | 14.47 | 2.53 | 16.47 | 33.47 | 46.00 | 12.53 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 10.44 | 30.99 | 46.00 | 15.01 | QP |



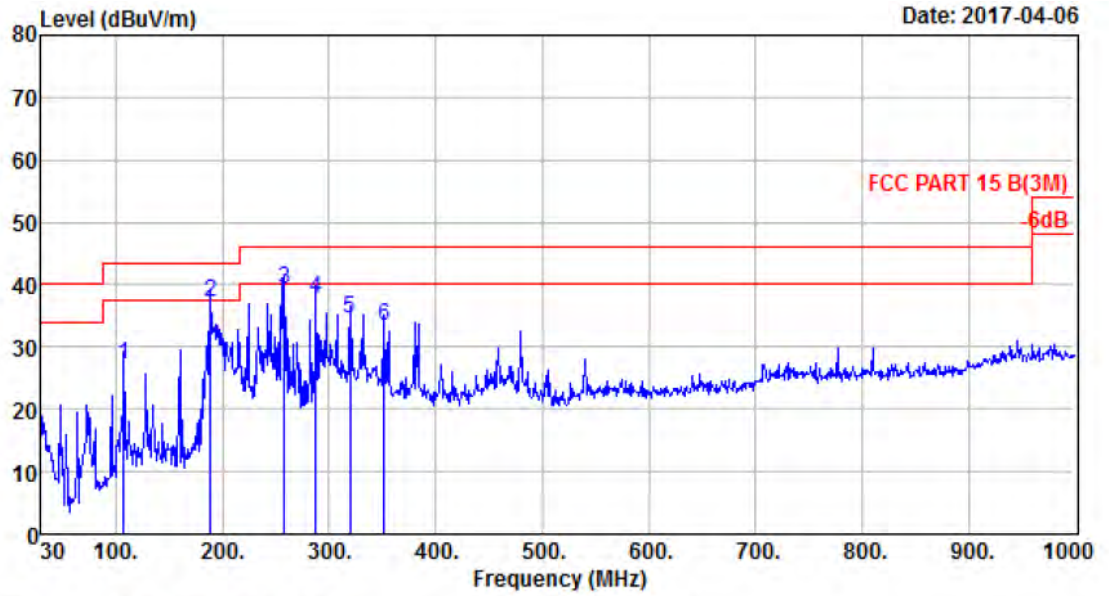
Site no. : 1# 966 Chamber Data no. : 270
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2441MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 107.60 | 10.24 | 1.39 | 18.60 | 30.23 | 43.50 | 13.27 | QP |
| 2 | 127.97 | 11.33 | 1.49 | 23.27 | 36.09 | 43.50 | 7.41 | QP |
| 3 | 189.08 | 8.05 | 1.75 | 28.50 | 38.30 | 43.50 | 5.20 | QP |
| 4 | 257.95 | 12.75 | 2.19 | 21.20 | 36.14 | 46.00 | 9.86 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 11.97 | 29.85 | 46.00 | 16.15 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 9.18 | 29.73 | 46.00 | 16.27 | QP |



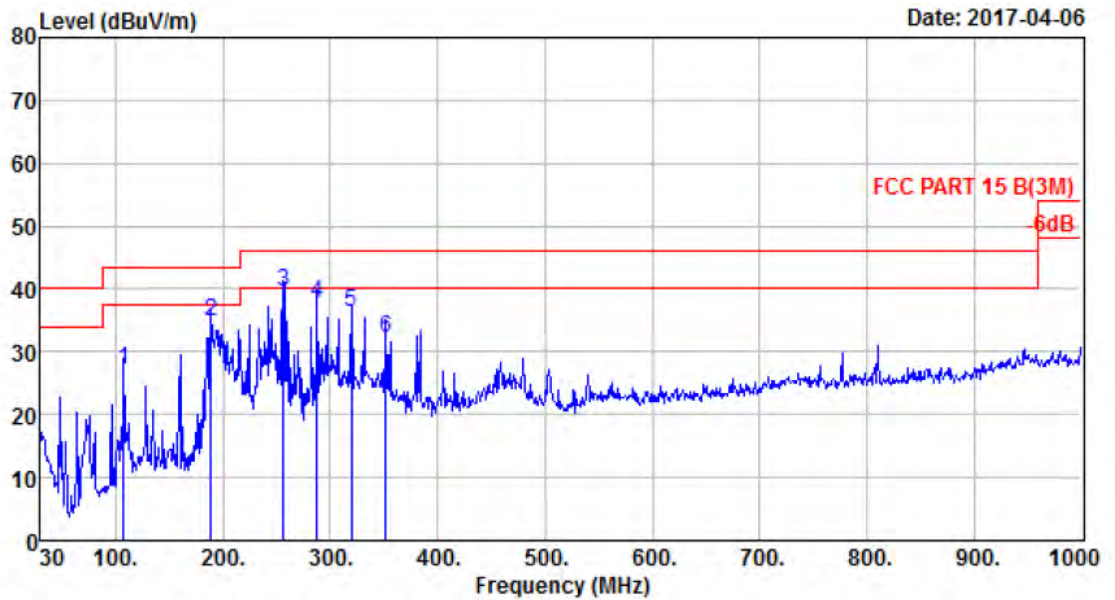
Site no. : 1# 966 Chamber Data no. : 271
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 47.46 | 8.78 | 0.93 | 20.65 | 30.36 | 40.00 | 9.64 | QP |
| 2 | 127.97 | 11.33 | 1.49 | 23.70 | 36.52 | 43.50 | 6.98 | QP |
| 3 | 189.08 | 8.05 | 1.75 | 29.16 | 38.96 | 43.50 | 4.54 | QP |
| 4 | 257.95 | 12.75 | 2.19 | 23.18 | 38.12 | 46.00 | 7.88 | QP |
| 5 | 288.02 | 12.66 | 2.31 | 19.07 | 34.04 | 46.00 | 11.96 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 8.67 | 29.22 | 46.00 | 16.78 | QP |



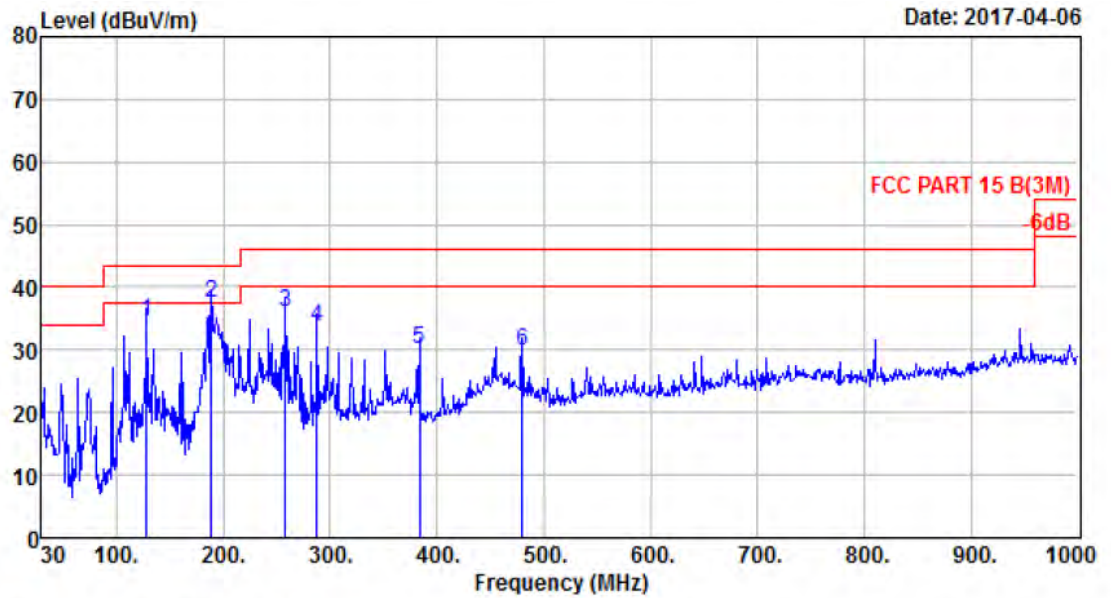
Site no. : 1# 966 Chamber Data no. : 272
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 107.60 | 10.24 | 1.39 | 15.58 | 27.21 | 43.50 | 16.29 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 27.37 | 37.17 | 43.50 | 6.33 | QP |
| 3 | 257.95 | 12.75 | 2.19 | 24.29 | 39.23 | 46.00 | 6.77 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 22.96 | 37.93 | 46.00 | 8.07 | QP |
| 5 | 320.03 | 13.57 | 2.40 | 18.67 | 34.64 | 46.00 | 11.36 | QP |
| 6 | 352.04 | 14.47 | 2.53 | 16.26 | 33.26 | 46.00 | 12.74 | QP |



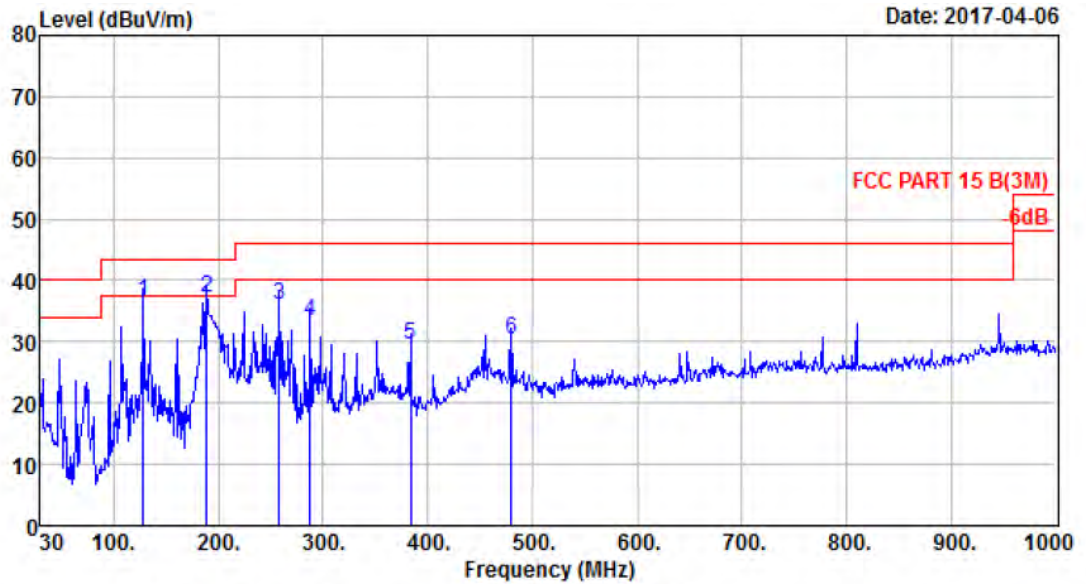
Site no. : 1# 966 Chamber Data no. : 273
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2402MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 107.60 | 10.24 | 1.39 | 15.38 | 27.01 | 43.50 | 16.49 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 24.92 | 34.72 | 43.50 | 8.78 | QP |
| 3 | 256.01 | 12.52 | 2.15 | 24.80 | 39.47 | 46.00 | 6.53 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 22.74 | 37.71 | 46.00 | 8.29 | QP |
| 5 | 320.03 | 13.57 | 2.40 | 20.34 | 36.31 | 46.00 | 9.69 | QP |
| 6 | 352.04 | 14.47 | 2.53 | 15.13 | 32.13 | 46.00 | 13.87 | QP |



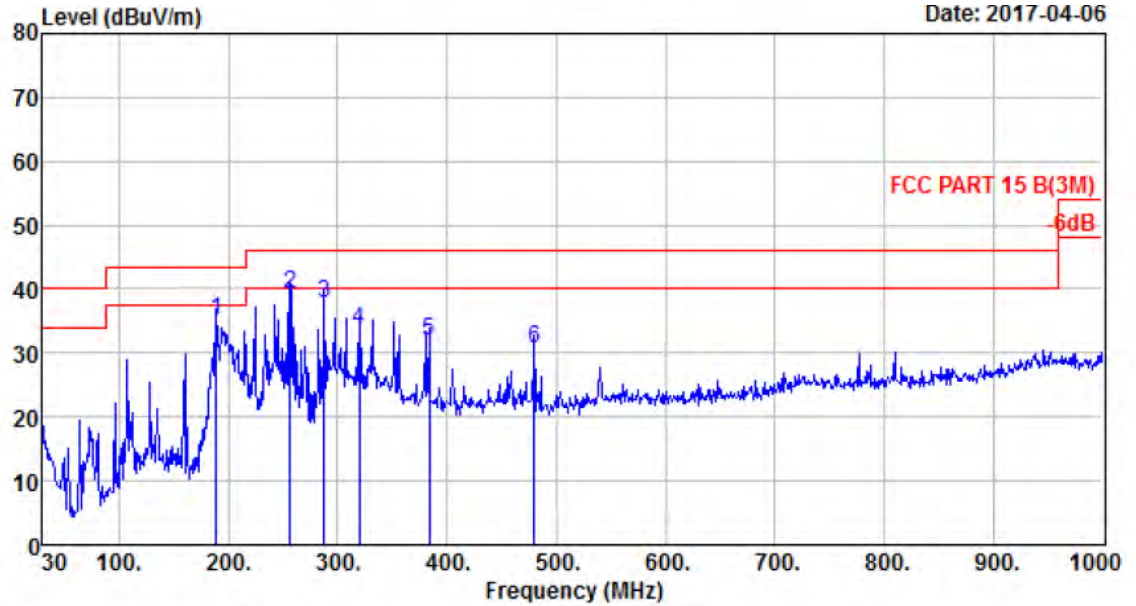
Site no. : 1# 966 Chamber Data no. : 274
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2402MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 127.97 | 11.33 | 1.49 | 21.79 | 34.61 | 43.50 | 8.89 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 27.62 | 37.42 | 43.50 | 6.08 | QP |
| 3 | 257.95 | 12.75 | 2.19 | 21.00 | 35.94 | 46.00 | 10.06 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 18.61 | 33.58 | 46.00 | 12.42 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 12.13 | 30.01 | 46.00 | 15.99 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 9.33 | 29.88 | 46.00 | 16.12 | QP |



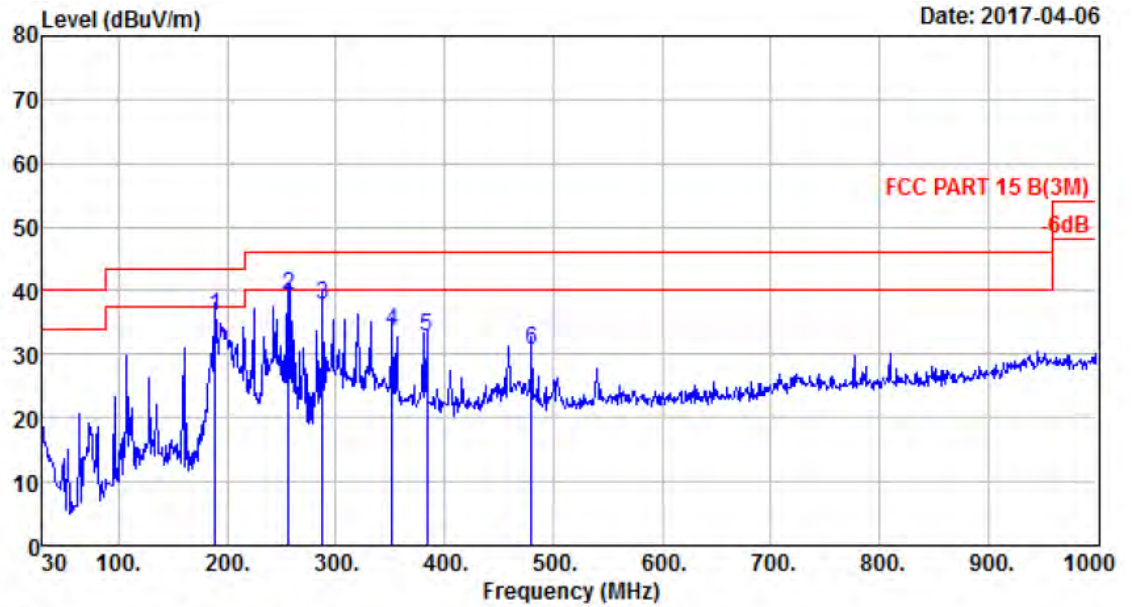
Site no. : 1# 966 Chamber Data no. : 275
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2441MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 127.97 | 11.33 | 1.49 | 23.78 | 36.60 | 43.50 | 6.90 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 27.40 | 37.20 | 43.50 | 6.30 | QP |
| 3 | 257.95 | 12.75 | 2.19 | 21.03 | 35.97 | 46.00 | 10.03 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 18.33 | 33.30 | 46.00 | 12.70 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 11.52 | 29.40 | 46.00 | 16.60 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 9.74 | 30.29 | 46.00 | 15.71 | QP |



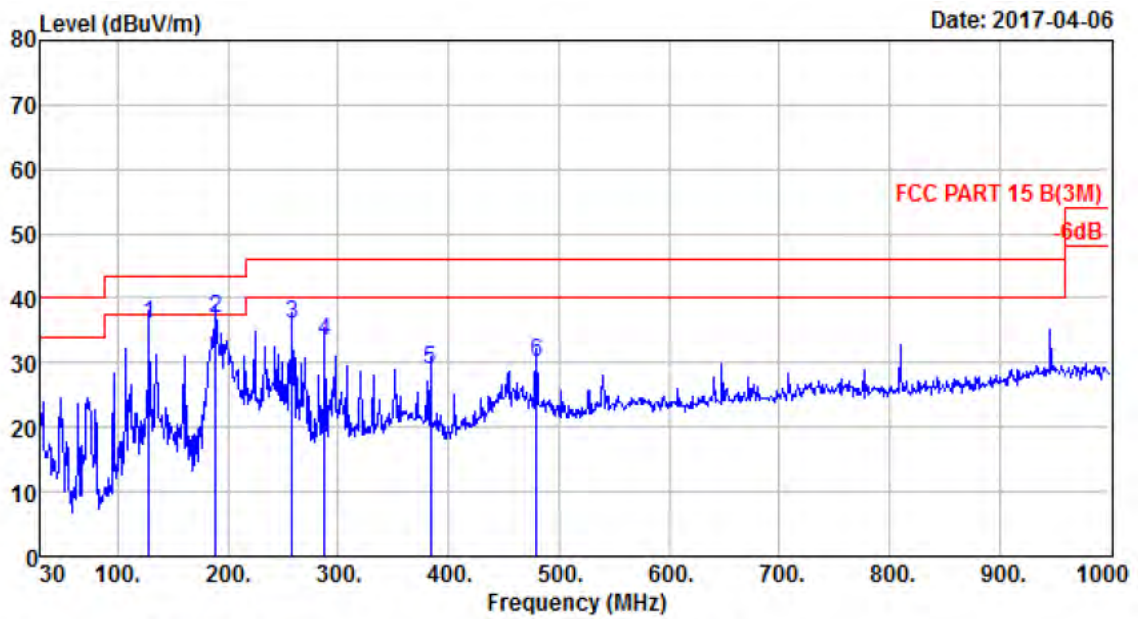
Site no. : 1# 966 Chamber Data no. : 276
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2441MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 189.08 | 8.05 | 1.75 | 25.19 | 34.99 | 43.50 | 8.51 | QP |
| 2 | 256.01 | 12.52 | 2.15 | 24.45 | 39.12 | 46.00 | 6.88 | QP |
| 3 | 288.02 | 12.66 | 2.31 | 22.80 | 37.77 | 46.00 | 8.23 | QP |
| 4 | 320.03 | 13.57 | 2.40 | 17.80 | 33.77 | 46.00 | 12.23 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 14.00 | 31.88 | 46.00 | 14.12 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 10.09 | 30.64 | 46.00 | 15.36 | QP |



Site no. : 1# 966 Chamber Data no. : 277
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2480MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 189.08 | 8.05 | 1.75 | 26.19 | 35.99 | 43.50 | 7.51 | QP |
| 2 | 256.01 | 12.52 | 2.15 | 24.45 | 39.12 | 46.00 | 6.88 | QP |
| 3 | 288.02 | 12.66 | 2.31 | 22.80 | 37.77 | 46.00 | 8.23 | QP |
| 4 | 352.04 | 14.47 | 2.53 | 16.66 | 33.66 | 46.00 | 12.34 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 15.00 | 32.88 | 46.00 | 13.12 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 10.09 | 30.64 | 46.00 | 15.36 | QP |



Site no. : 1# 966 Chamber Data no. : 278
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2480MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 127.97 | 11.33 | 1.49 | 23.23 | 36.05 | 43.50 | 7.45 | QP |
| 2 | 189.08 | 8.05 | 1.75 | 27.10 | 36.90 | 43.50 | 6.60 | QP |
| 3 | 257.95 | 12.75 | 2.19 | 20.97 | 35.91 | 46.00 | 10.09 | QP |
| 4 | 288.02 | 12.66 | 2.31 | 18.48 | 33.45 | 46.00 | 12.55 | QP |
| 5 | 384.05 | 15.24 | 2.64 | 11.16 | 29.04 | 46.00 | 16.96 | QP |
| 6 | 480.08 | 17.45 | 3.10 | 9.55 | 30.10 | 46.00 | 15.90 | QP |

1000 MHz – 18000MHz

Site no. : 1# 966 Chamber Data no. : 239
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 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 | 34.64 | 83.83 | 83.42 | 74.00 | -9.42 | Peak |
| 2 | 4804.00 | 31.25 | 11.77 | 35.64 | 36.73 | 44.11 | 74.00 | 29.89 | Peak |
| 3 | 7206.00 | 36.52 | 11.54 | 33.95 | 31.68 | 45.79 | 74.00 | 28.21 | Peak |
| 4 | 8650.00 | 37.27 | 11.45 | 33.68 | 29.33 | 44.37 | 74.00 | 29.63 | Peak |
| 5 | 11557.00 | 39.14 | 10.97 | 33.31 | 27.70 | 44.50 | 74.00 | 29.50 | Peak |
| 6 | 14124.00 | 41.57 | 10.91 | 33.22 | 28.83 | 48.09 | 74.00 | 25.91 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 240
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 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 | 34.64 | 88.28 | 87.87 | 74.00 | -13.87 | Peak |
| 2 | 4804.00 | 31.25 | 11.77 | 35.64 | 36.61 | 43.99 | 74.00 | 30.01 | Peak |
| 3 | 7206.00 | 36.52 | 11.54 | 33.95 | 31.88 | 45.99 | 74.00 | 28.01 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 29.74 | 44.85 | 74.00 | 29.15 | Peak |
| 5 | 10214.00 | 38.48 | 11.47 | 34.50 | 28.35 | 43.80 | 74.00 | 30.20 | Peak |
| 6 | 14175.00 | 41.61 | 10.91 | 33.35 | 27.56 | 46.73 | 74.00 | 27.27 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 241
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK 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 |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 81.53 | 80.95 | 74.00 | -6.95 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 38.30 | 45.98 | 74.00 | 28.02 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 29.26 | 43.24 | 74.00 | 30.76 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 29.92 | 45.03 | 74.00 | 28.97 | Peak |
| 5 | 11200.00 | 39.39 | 11.14 | 33.24 | 27.60 | 44.89 | 74.00 | 29.11 | Peak |
| 6 | 14056.00 | 41.51 | 10.90 | 33.06 | 27.51 | 46.86 | 74.00 | 27.14 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 242
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK 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 |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 86.78 | 86.20 | 74.00 | -12.20 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 41.73 | 49.41 | 74.00 | 24.59 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 31.32 | 45.30 | 74.00 | 28.70 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 31.63 | 46.74 | 74.00 | 27.26 | Peak |
| 5 | 11115.00 | 39.44 | 11.20 | 33.55 | 28.31 | 45.40 | 74.00 | 28.60 | Peak |
| 6 | 14600.00 | 41.59 | 10.92 | 33.80 | 28.48 | 47.19 | 74.00 | 26.81 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 243
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz

| | 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 | 2480.00 | 27.58 | 6.71 | 35.11 | 85.97 | 85.15 | 74.00 | -11.15 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 36.98 | 44.90 | 74.00 | 29.10 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 32.09 | 46.02 | 74.00 | 27.98 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 30.92 | 46.03 | 74.00 | 27.97 | Peak |
| 5 | 11234.00 | 39.37 | 11.12 | 33.25 | 27.75 | 44.99 | 74.00 | 29.01 | Peak |
| 6 | 14396.00 | 41.79 | 10.92 | 33.39 | 27.56 | 46.88 | 74.00 | 27.12 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 244
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz

| | 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 | 2480.00 | 27.58 | 6.71 | 35.11 | 81.82 | 81.00 | 74.00 | -7.00 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 36.68 | 44.60 | 74.00 | 29.40 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 28.82 | 42.75 | 74.00 | 31.25 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 29.12 | 44.23 | 74.00 | 29.77 | Peak |
| 5 | 10996.00 | 39.52 | 11.29 | 34.11 | 28.41 | 45.11 | 74.00 | 28.89 | Peak |
| 6 | 13954.00 | 41.35 | 10.96 | 32.99 | 27.10 | 46.42 | 74.00 | 27.58 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 245
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 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 | 34.64 | 85.05 | 84.64 | 74.00 | -10.64 | Peak |
| 2 | 4804.00 | 31.25 | 11.77 | 35.64 | 36.70 | 44.08 | 74.00 | 29.92 | Peak |
| 3 | 7206.00 | 36.52 | 11.54 | 33.95 | 29.72 | 43.83 | 74.00 | 30.17 | Peak |
| 4 | 8514.00 | 36.96 | 11.45 | 34.07 | 30.67 | 45.01 | 74.00 | 28.99 | Peak |
| 5 | 11234.00 | 39.37 | 11.12 | 33.25 | 28.44 | 45.68 | 74.00 | 28.32 | Peak |
| 6 | 14090.00 | 41.54 | 10.91 | 33.13 | 27.95 | 47.27 | 74.00 | 26.73 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 246
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 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 | 34.64 | 83.11 | 82.70 | 74.00 | -8.70 | Peak |
| 2 | 4804.00 | 31.25 | 11.77 | 35.64 | 35.34 | 42.72 | 74.00 | 31.28 | Peak |
| 3 | 7206.00 | 36.52 | 11.54 | 33.95 | 28.72 | 42.83 | 74.00 | 31.17 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 29.78 | 44.89 | 74.00 | 29.11 | Peak |
| 5 | 11200.00 | 39.39 | 11.14 | 33.24 | 27.30 | 44.59 | 74.00 | 29.41 | Peak |
| 6 | 13614.00 | 40.40 | 11.36 | 32.68 | 27.93 | 47.01 | 74.00 | 26.99 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 247
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 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 |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 85.77 | 85.19 | 74.00 | -11.19 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 39.85 | 47.53 | 74.00 | 26.47 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 30.21 | 44.19 | 74.00 | 29.81 | Peak |
| 4 | 8480.00 | 36.91 | 11.45 | 34.18 | 29.98 | 44.16 | 74.00 | 29.84 | Peak |
| 5 | 11064.00 | 39.48 | 11.24 | 33.83 | 27.00 | 43.89 | 74.00 | 30.11 | Peak |
| 6 | 14498.00 | 41.88 | 10.93 | 33.52 | 27.08 | 46.37 | 74.00 | 27.63 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 248
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 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 |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 81.68 | 81.10 | 74.00 | -7.10 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 39.69 | 47.37 | 74.00 | 26.63 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 30.73 | 44.71 | 74.00 | 29.29 | Peak |
| 4 | 8735.00 | 37.40 | 11.45 | 33.76 | 29.68 | 44.77 | 74.00 | 29.23 | Peak |
| 5 | 11115.00 | 39.44 | 11.20 | 33.55 | 26.67 | 43.76 | 74.00 | 30.24 | Peak |
| 6 | 14005.00 | 41.46 | 10.90 | 33.01 | 26.24 | 45.59 | 74.00 | 28.41 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 249
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2480MHz

| | 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 | 2480.00 | 27.58 | 6.71 | 35.11 | 81.66 | 80.84 | 74.00 | -6.84 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 36.22 | 44.14 | 74.00 | 29.86 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 28.90 | 42.83 | 74.00 | 31.17 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 29.62 | 44.73 | 74.00 | 29.27 | Peak |
| 5 | 11030.00 | 39.50 | 11.27 | 33.98 | 28.17 | 44.96 | 74.00 | 29.04 | Peak |
| 6 | 14090.00 | 41.54 | 10.91 | 33.13 | 26.62 | 45.94 | 74.00 | 28.06 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 250
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2480MHz

| | 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 | 2480.00 | 27.58 | 6.71 | 35.11 | 84.01 | 83.19 | 74.00 | -9.19 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 36.72 | 44.64 | 74.00 | 29.36 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 30.58 | 44.51 | 74.00 | 29.49 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 28.13 | 43.24 | 74.00 | 30.76 | Peak |
| 5 | 11285.00 | 39.33 | 11.08 | 33.32 | 27.64 | 44.73 | 74.00 | 29.27 | Peak |
| 6 | 14005.00 | 41.46 | 10.90 | 33.01 | 26.51 | 45.86 | 74.00 | 28.14 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

18000MHz – 25000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

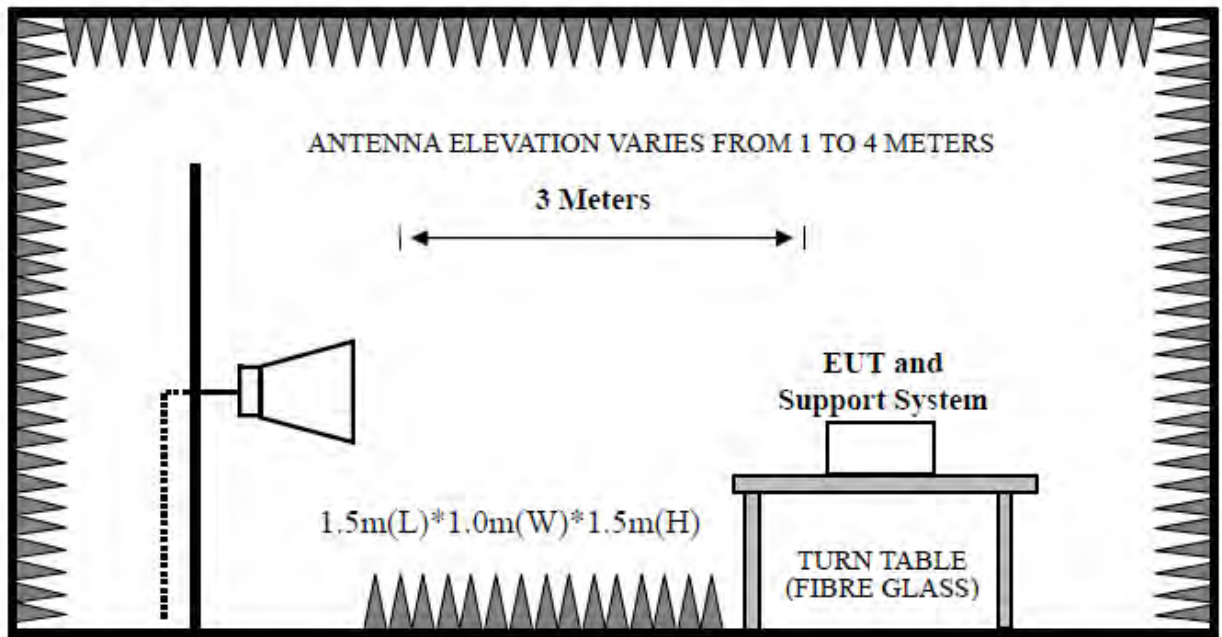
9. BAND EDGE COMPLIANCE

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



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

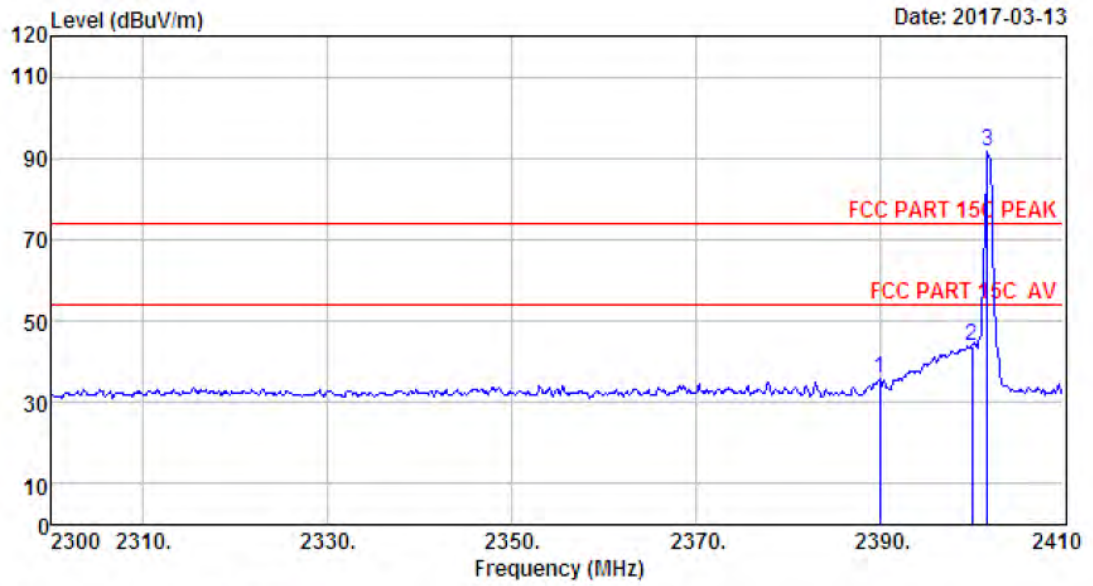
- (a) Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
- (b) AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto .

9.4. Test Result

| |
|--|
| EUT: Car Multimedia Player M/N: VX3016 |
| Power: DC 12V |
| Test date: 2017-03-13 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.

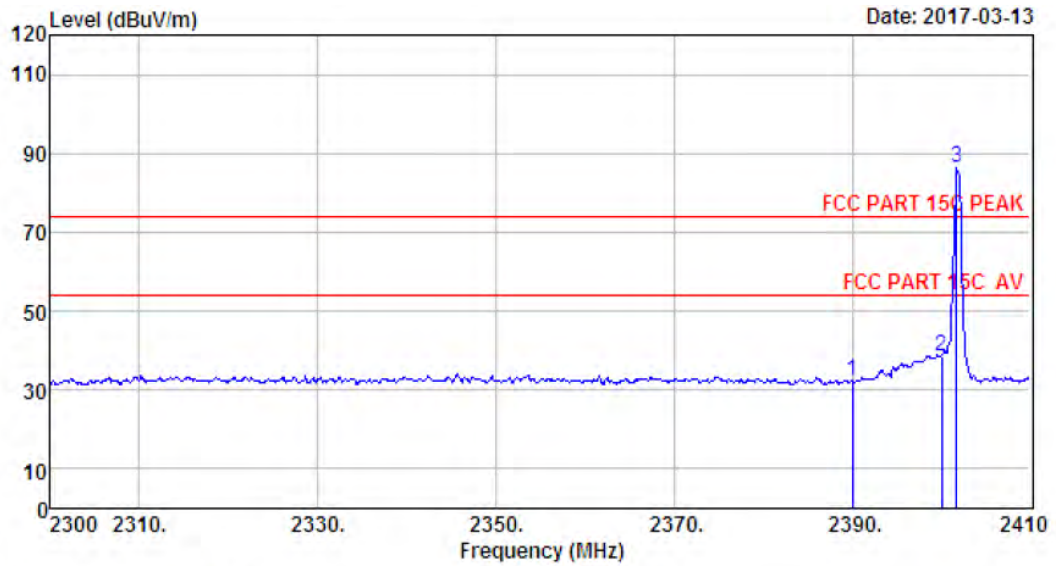
9.5. Test Data



Site no. : 1# 966 Chamber Data no. : 259
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2402MHz (No Hopping)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 36.03 | 35.67 | 74.00 | 38.33 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 44.14 | 43.73 | 74.00 | 30.27 | Peak |
| 3 | 2401.75 | 27.61 | 6.62 | 34.64 | 91.88 | 91.47 | 74.00 | -17.47 | Peak |

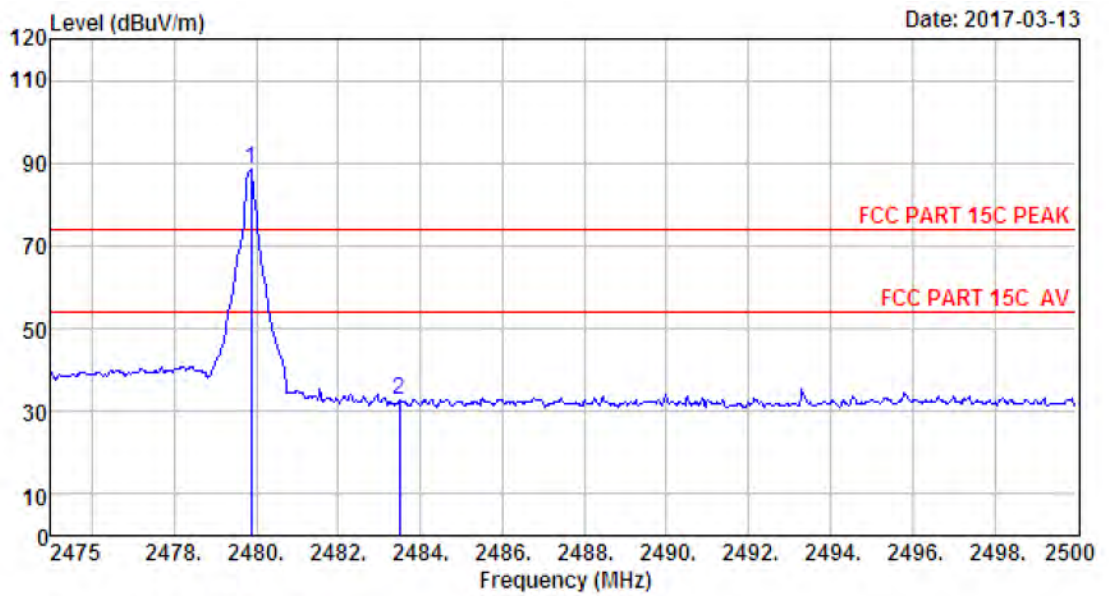
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 260
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2402MHz (No Hopping)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 32.82 | 32.46 | 74.00 | 41.54 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 39.05 | 38.64 | 74.00 | 35.36 | Peak |
| 3 | 2401.75 | 27.61 | 6.62 | 34.64 | 86.71 | 86.30 | 74.00 | -12.30 | Peak |

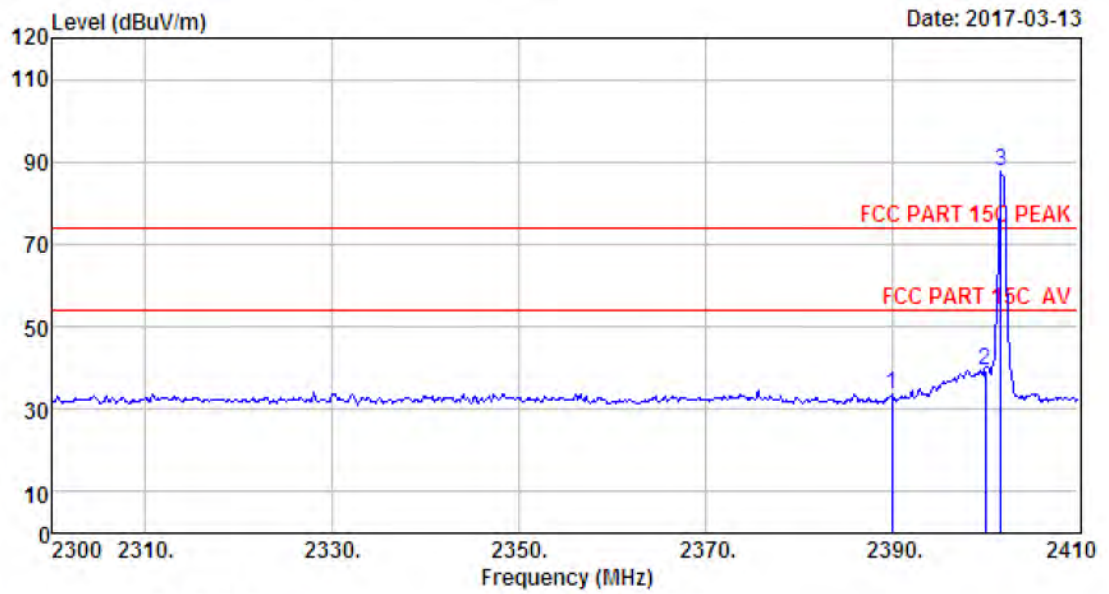
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 262
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz (No Hopping)

| | 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 | 2479.88 | 27.58 | 6.71 | 35.11 | 89.24 | 88.42 | 74.00 | -14.42 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 33.42 | 32.60 | 74.00 | 41.40 | Peak |

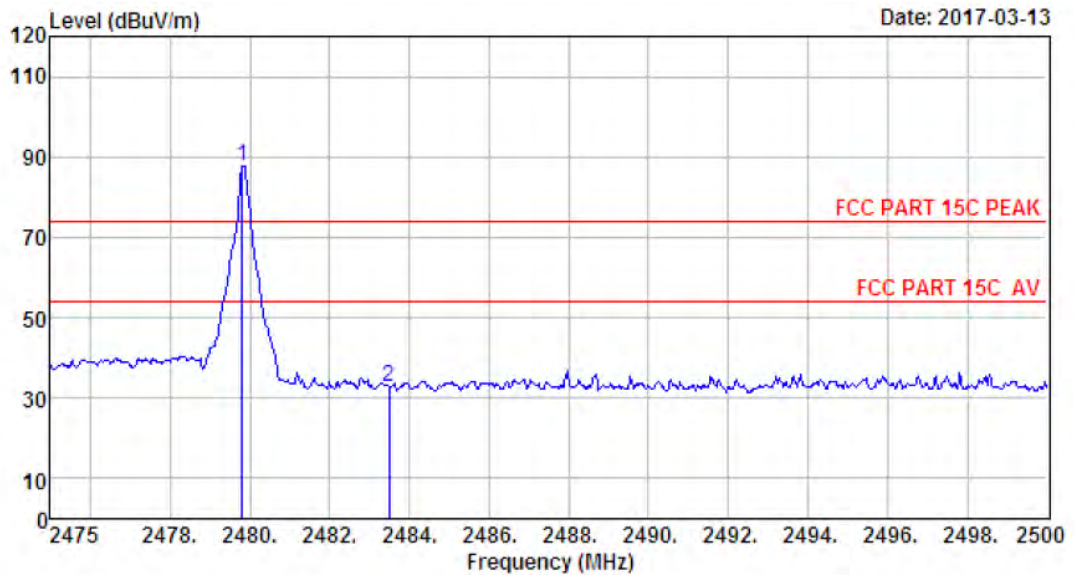
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 263
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2402MHz (No Hopping)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 33.84 | 33.48 | 74.00 | 40.52 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 39.72 | 39.31 | 74.00 | 34.69 | Peak |
| 3 | 2401.75 | 27.61 | 6.62 | 34.64 | 88.01 | 87.60 | 74.00 | -13.60 | Peak |

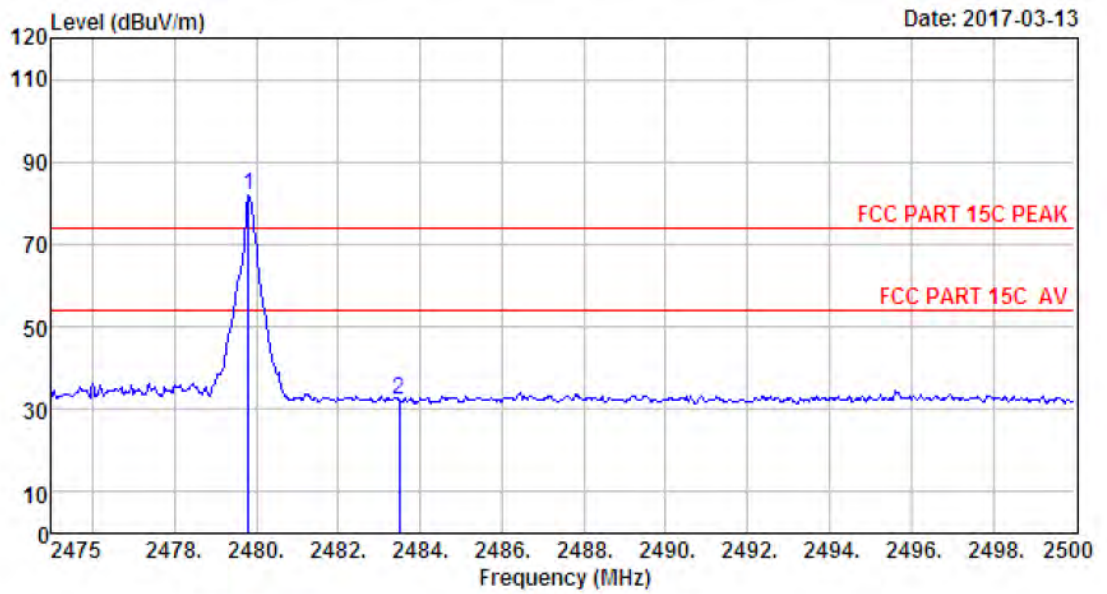
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 265
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK IX 2480MHz (No Hopping)

| | 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 | 2479.80 | 27.58 | 6.71 | 35.11 | 88.37 | 87.55 | 74.00 | -13.55 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 33.67 | 32.85 | 74.00 | 41.15 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

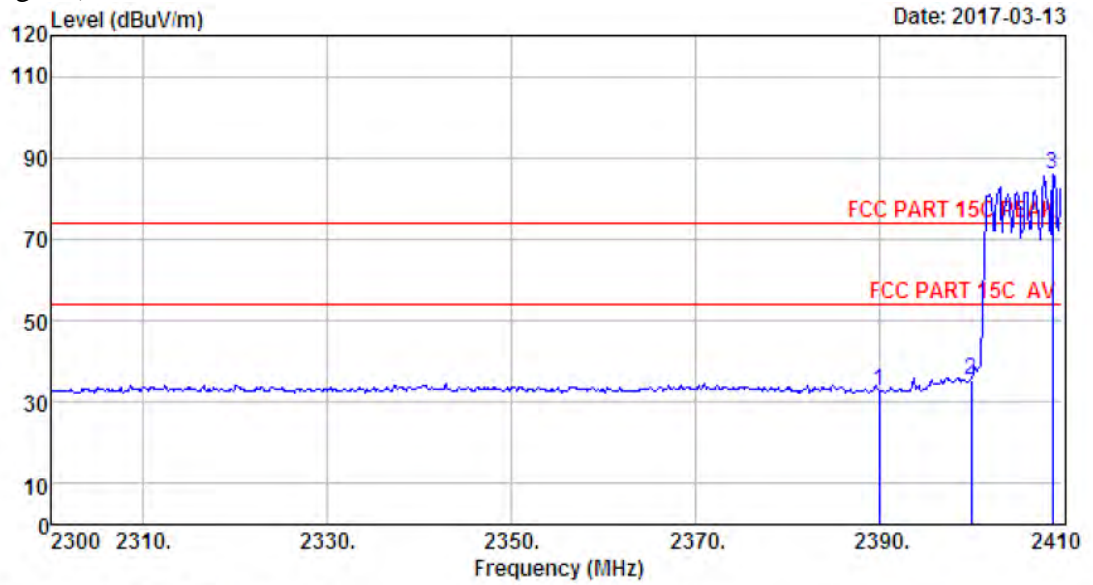


Site no. : 1# 966 Chamber Data no. : 266
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUI : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2480MHz (No Hopping)

| | 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 | 2479.80 | 27.58 | 6.71 | 35.11 | 82.63 | 81.81 | 74.00 | -7.81 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 32.94 | 32.12 | 74.00 | 41.88 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

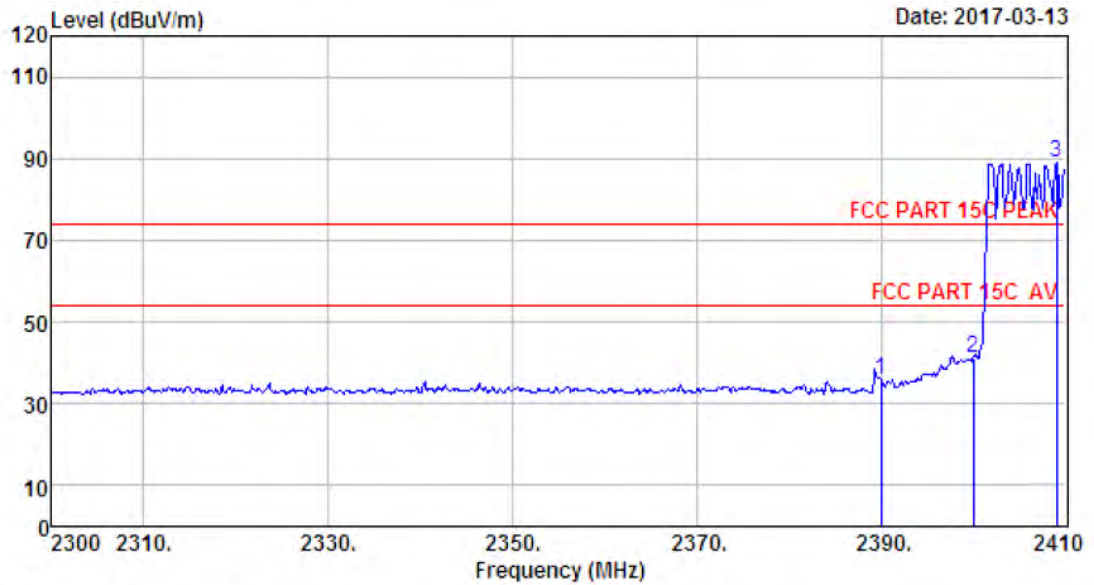
(Hopping On)



Site no. : 1# 966 Chamber Data no. : 251
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2402MHz (Hopping On)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 33.09 | 32.73 | 74.00 | 41.27 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 35.99 | 35.58 | 74.00 | 38.42 | Peak |
| 3 | 2402.90 | 27.60 | 6.64 | 34.64 | 86.50 | 86.10 | 74.00 | -12.10 | Peak |

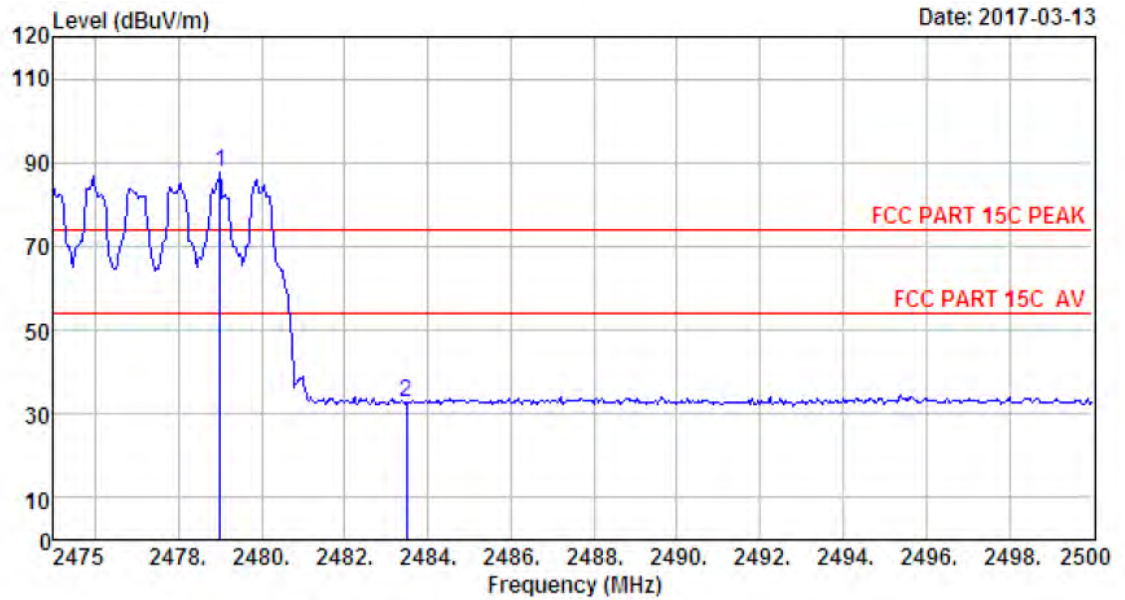
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 252
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2402MHz (Hopping On)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 36.30 | 35.94 | 74.00 | 38.06 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 41.49 | 41.08 | 74.00 | 32.92 | Peak |
| 3 | 2409.12 | 27.60 | 6.64 | 34.64 | 89.54 | 89.14 | 74.00 | -15.14 | Peak |

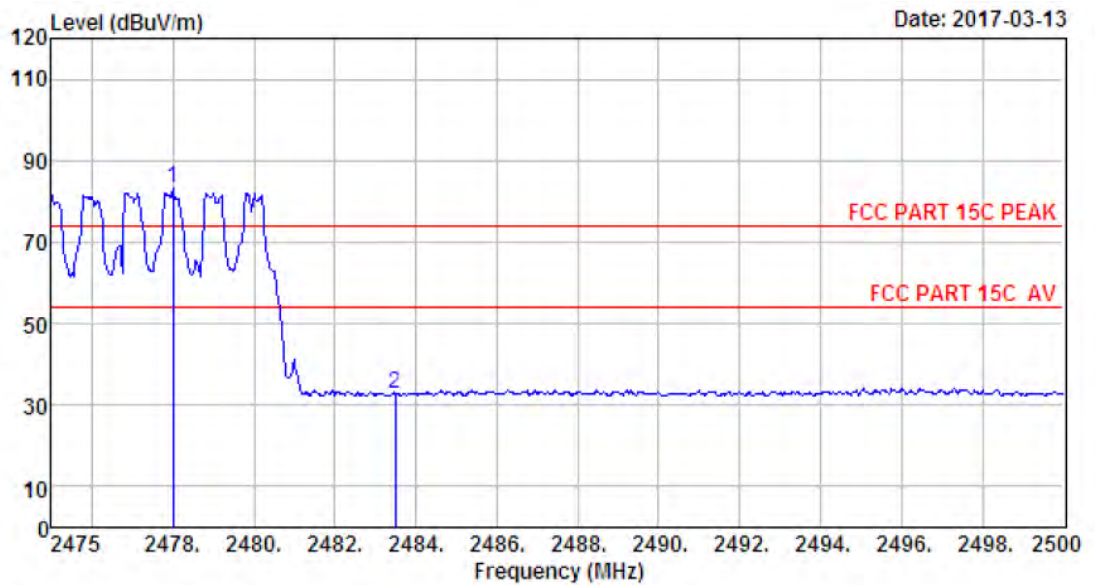
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 253
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6%;Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz (Hopping On)

| | 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 | 2479.00 | 27.58 | 6.71 | 35.11 | 88.45 | 87.63 | 74.00 | -13.63 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 33.63 | 32.81 | 74.00 | 41.19 | Peak |

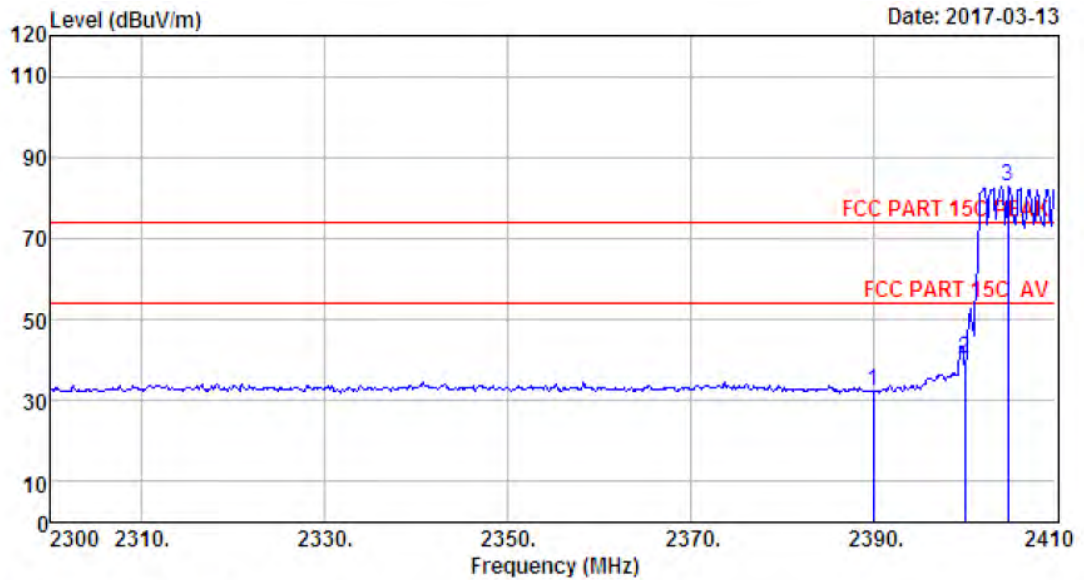
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 254
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : GFSK TX 2480MHz (Hopping On)

| | 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 | 2478.00 | 27.58 | 6.71 | 35.11 | 84.00 | 83.18 | 74.00 | -9.18 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 33.41 | 32.59 | 74.00 | 41.41 | Peak |

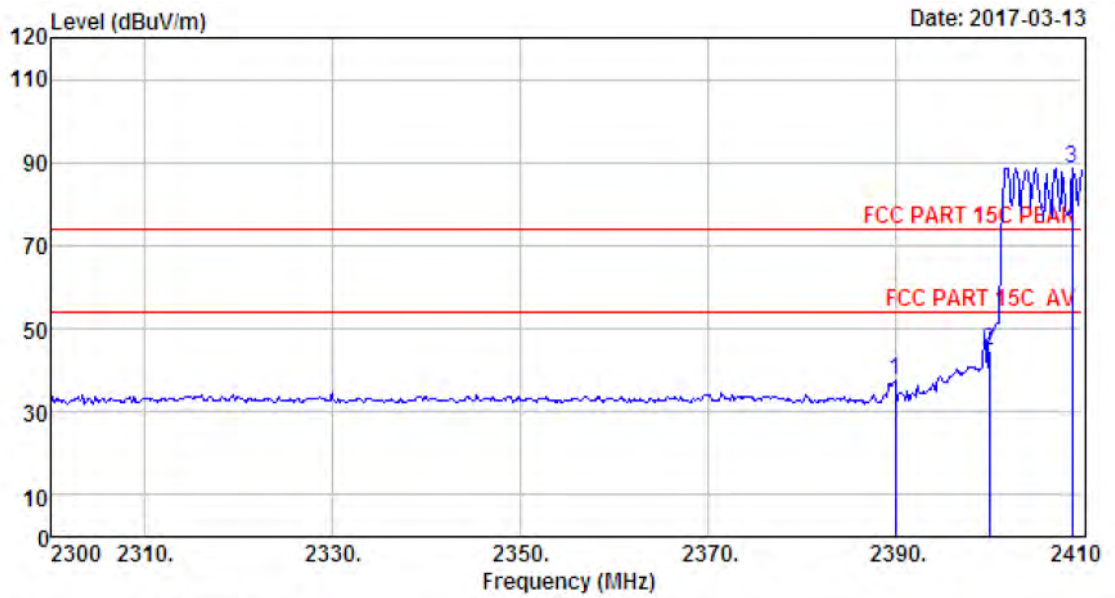
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 255
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2402MHz (Hopping On)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 32.62 | 32.26 | 74.00 | 41.74 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 40.69 | 40.28 | 74.00 | 33.72 | Peak |
| 3 | 2404.72 | 27.61 | 6.64 | 34.64 | 83.25 | 82.86 | 74.00 | -8.86 | Peak |

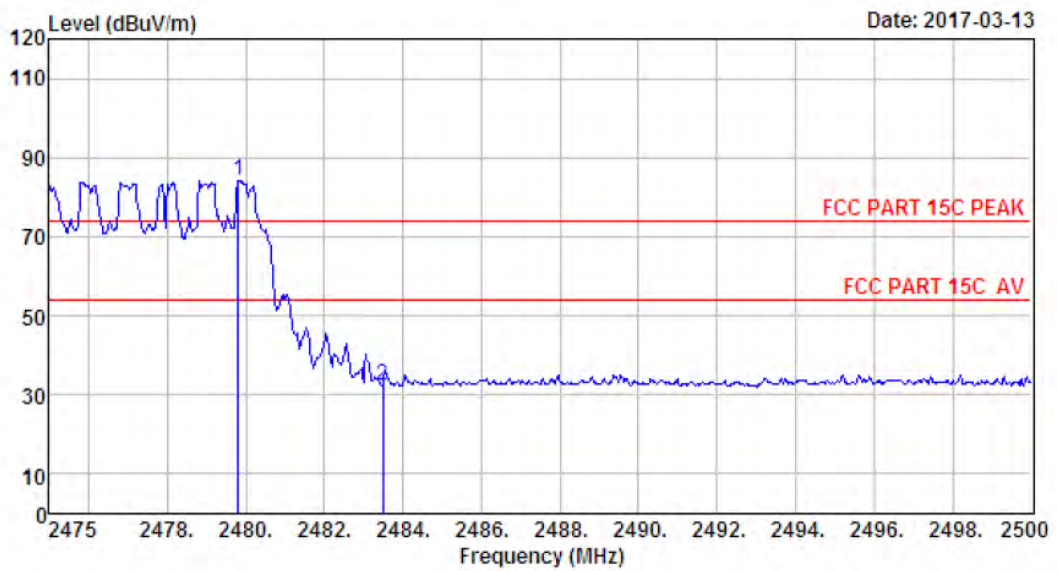
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 256
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2402MHz (Hopping On)

| | 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 | 2390.00 | 27.64 | 6.62 | 34.62 | 37.97 | 37.61 | 74.00 | 36.39 | Peak |
| 2 | 2400.00 | 27.61 | 6.62 | 34.64 | 45.26 | 44.85 | 74.00 | 29.15 | Peak |
| 3 | 2408.90 | 27.60 | 6.64 | 34.64 | 89.14 | 88.74 | 74.00 | -14.74 | Peak |

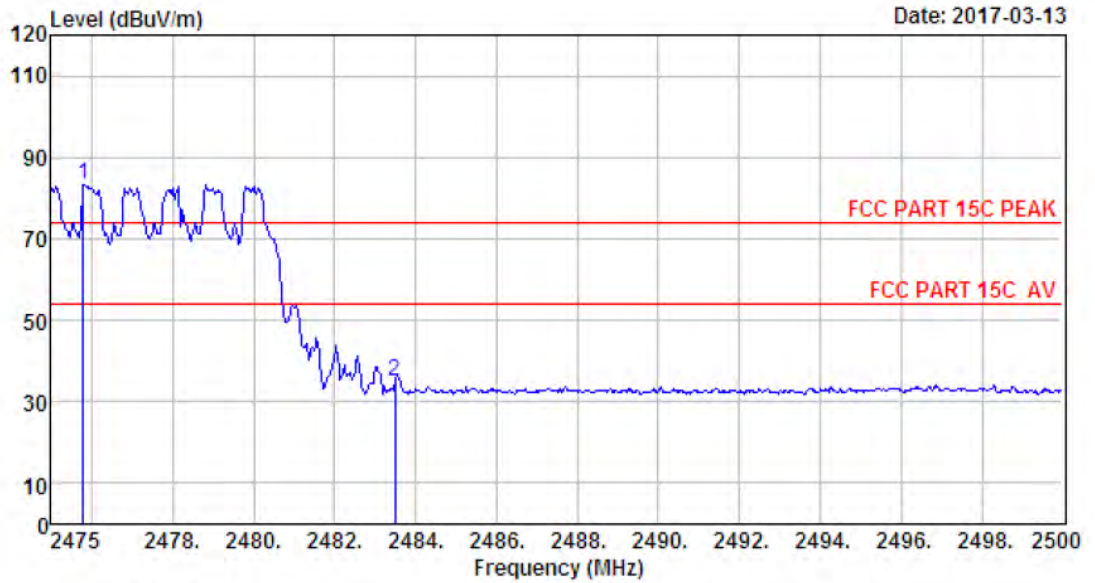
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 257
 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 multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK TX 2480MHz (Hopping On)

| | 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 | 2479.80 | 27.58 | 6.71 | 35.11 | 85.09 | 84.27 | 74.00 | -10.27 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 33.10 | 32.28 | 74.00 | 41.72 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 258
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Car multimedia player
 Power : DC 12V
 M/N : VX3016
 Test Mode : 8-DPSK IX 2480MHz (Hopping On)

| | 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 | 2475.80 | 27.58 | 6.71 | 35.11 | 84.00 | 83.18 | 74.00 | -9.18 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 35.58 | 34.76 | 74.00 | 39.24 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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

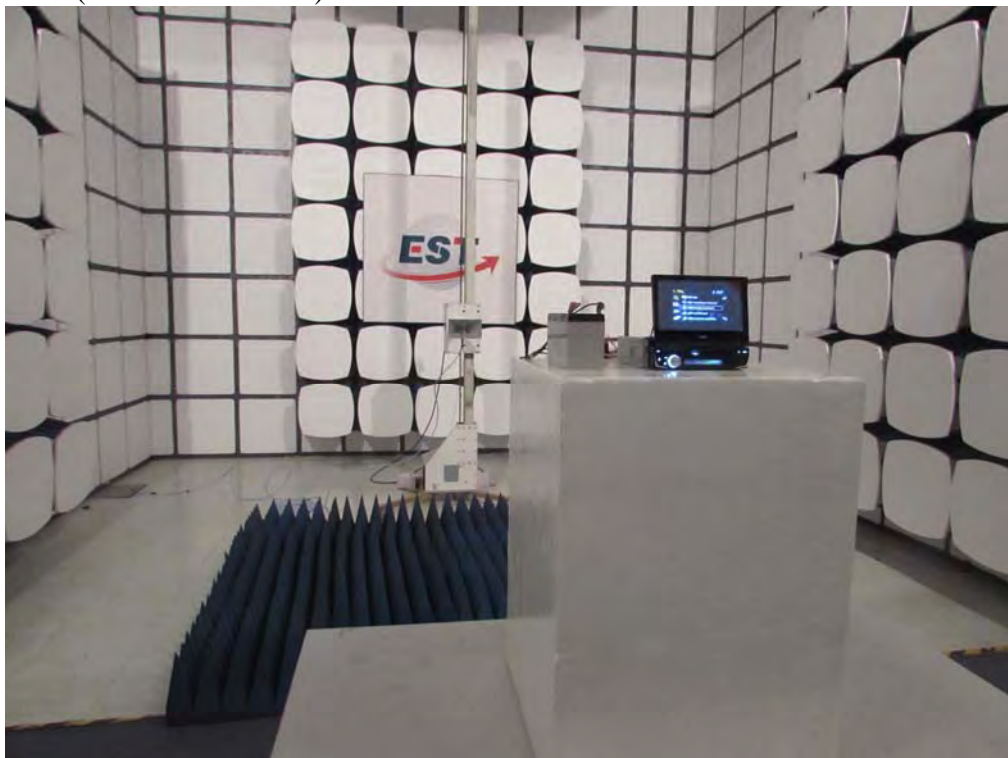
The antennas used for this product are Integrated PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0 dBi.

11. TEST SETUP PHOTO

Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)

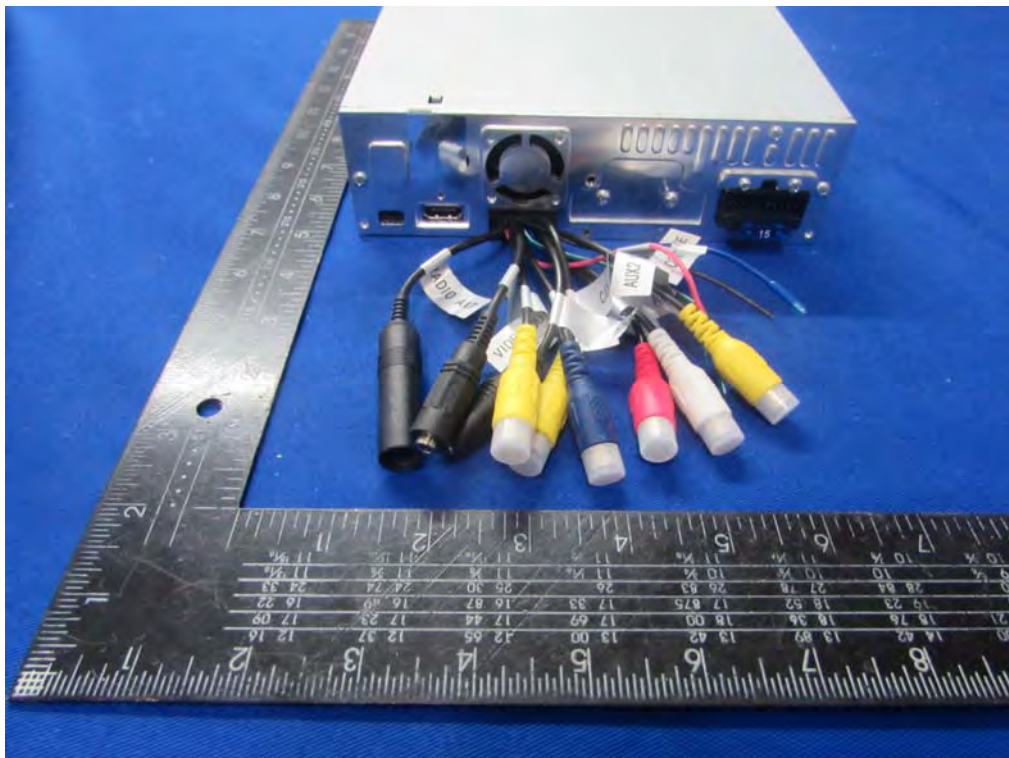


12. PHOTOS OF EUT

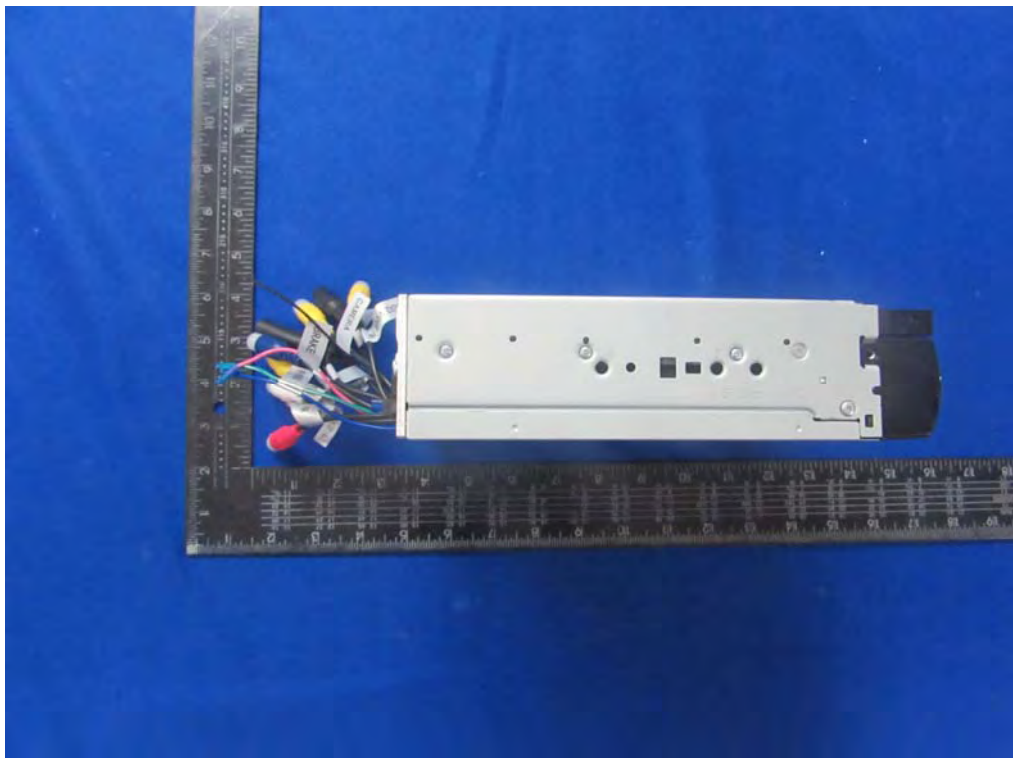
External Photos M/N: VX3016



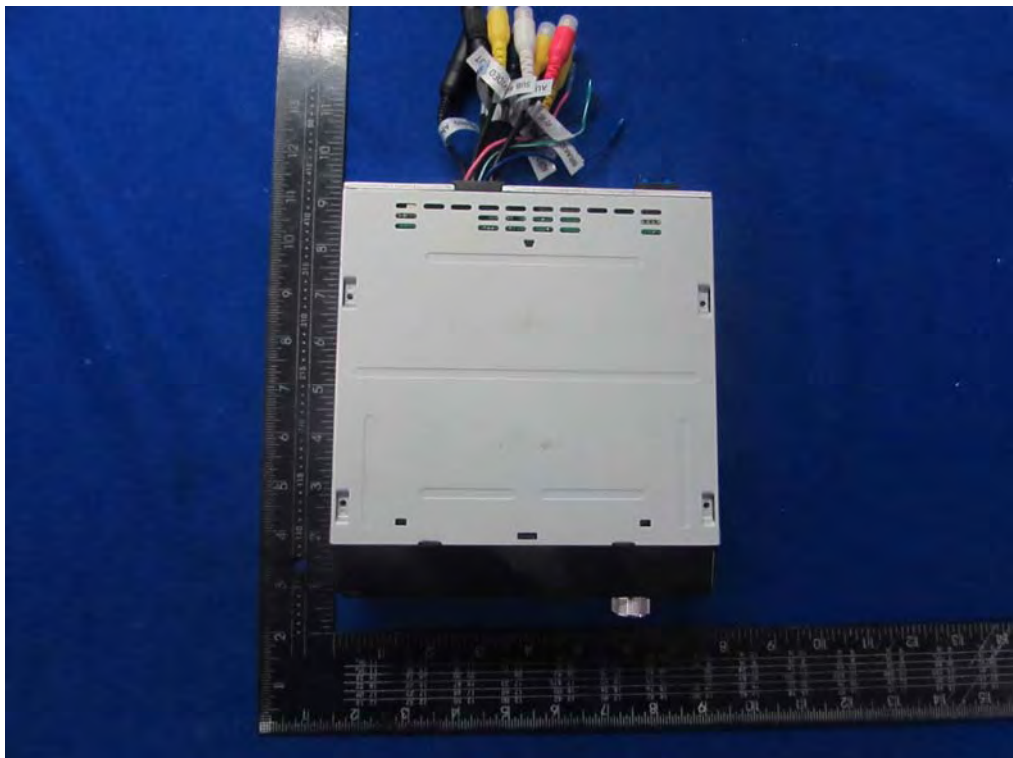
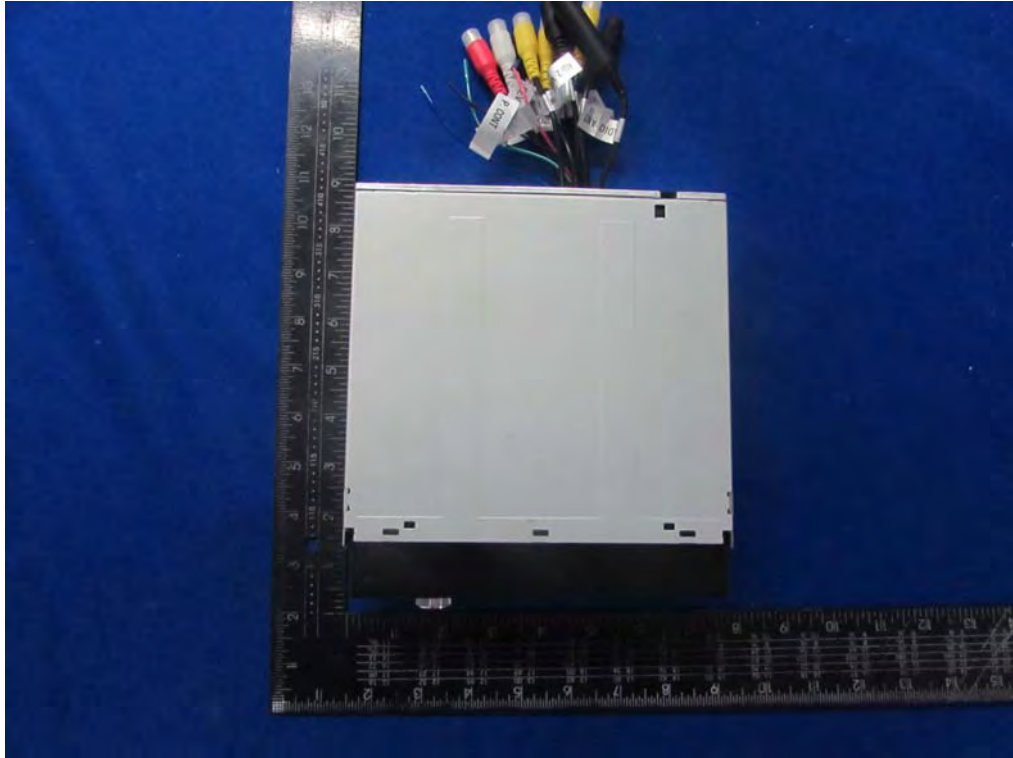
External Photos
M/N:VX3016



External Photos
M/N:VX3016



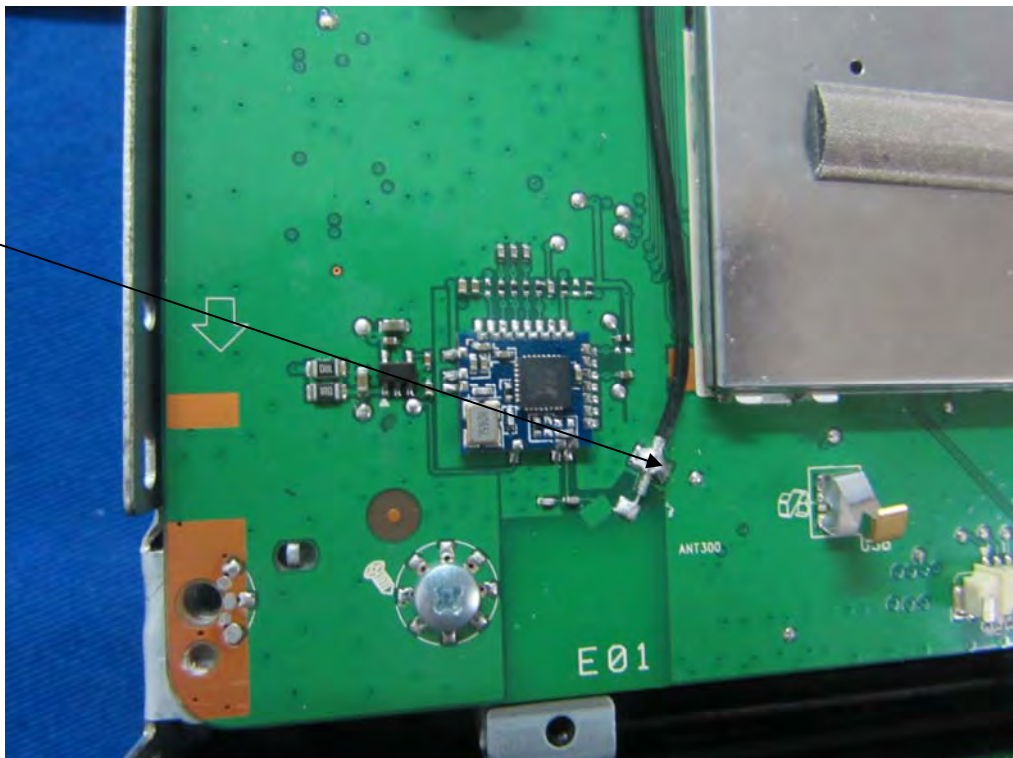
External Photos
M/N:VX3016



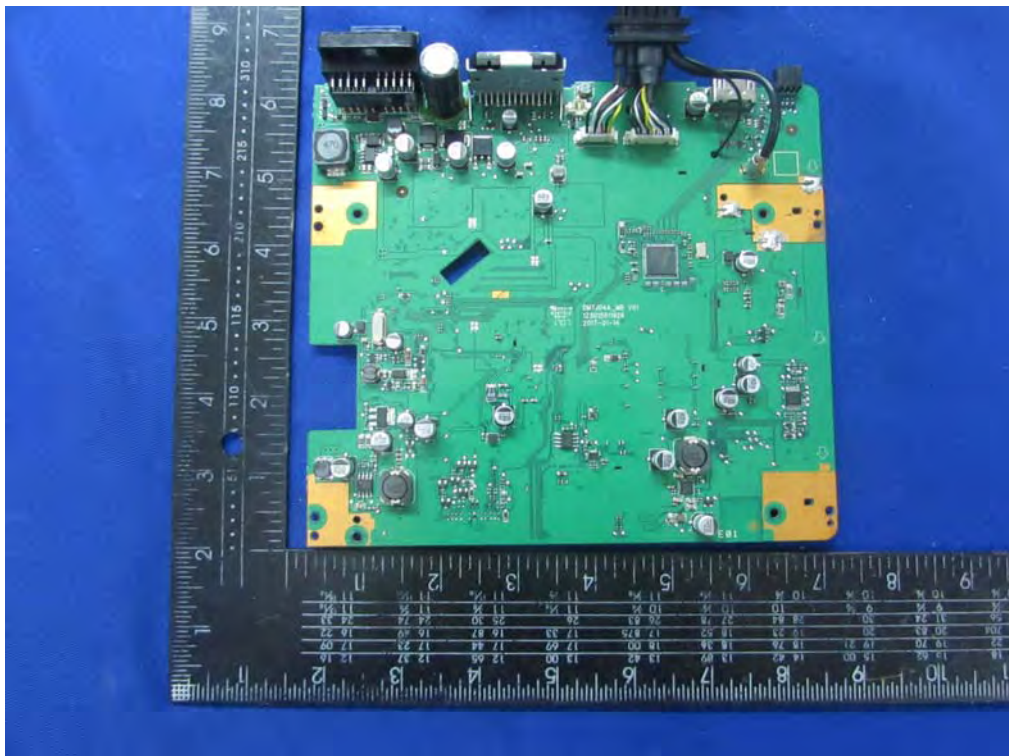
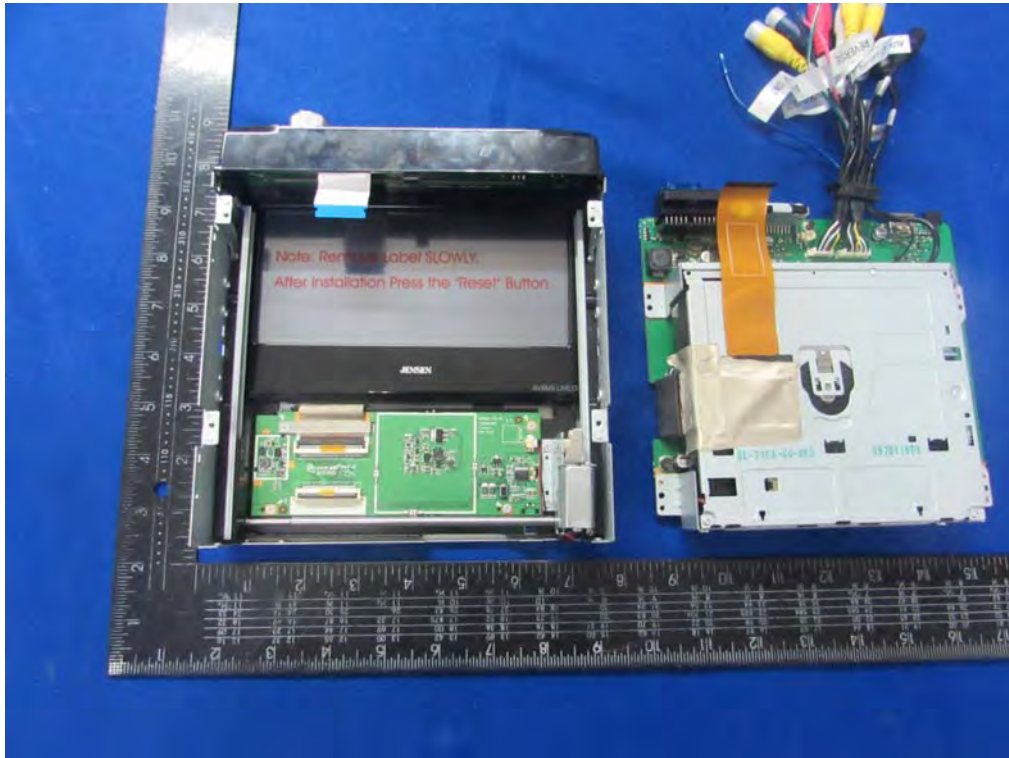
Internal Photos
M/N:VX3016



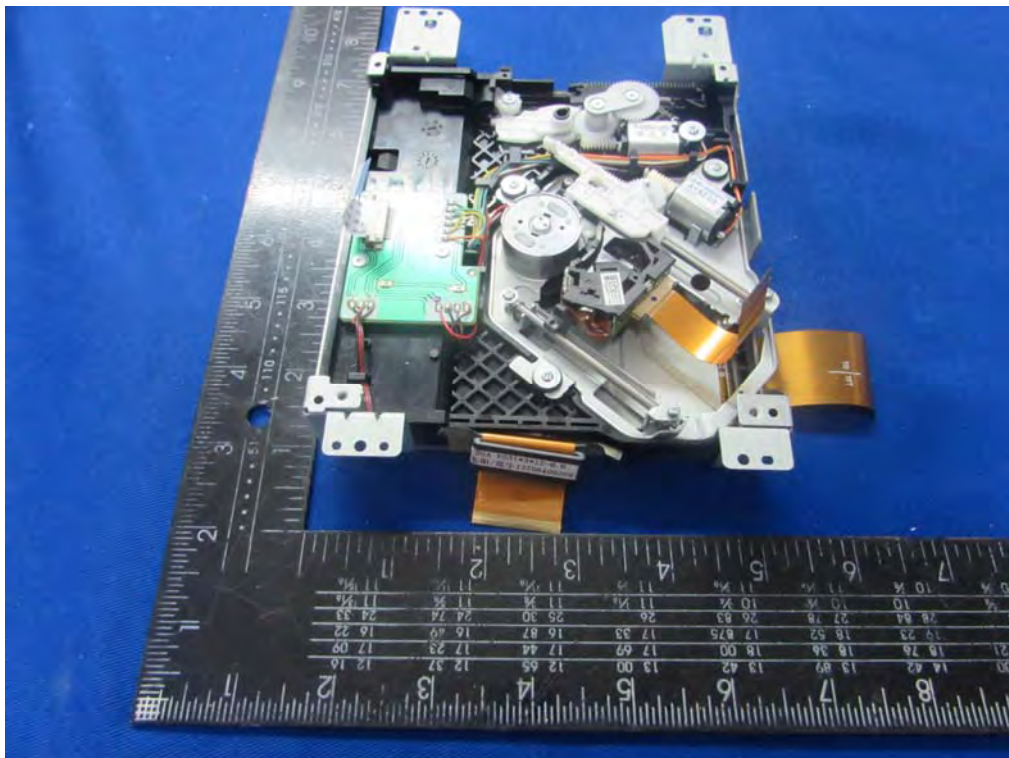
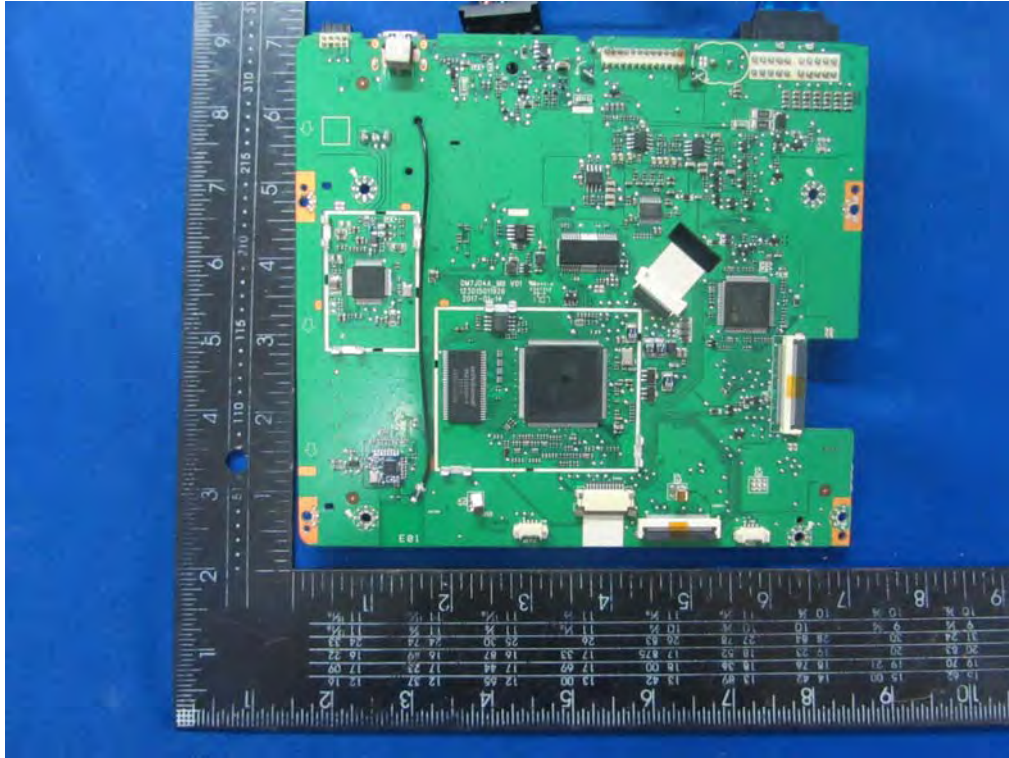
Bluetooth
Antenna



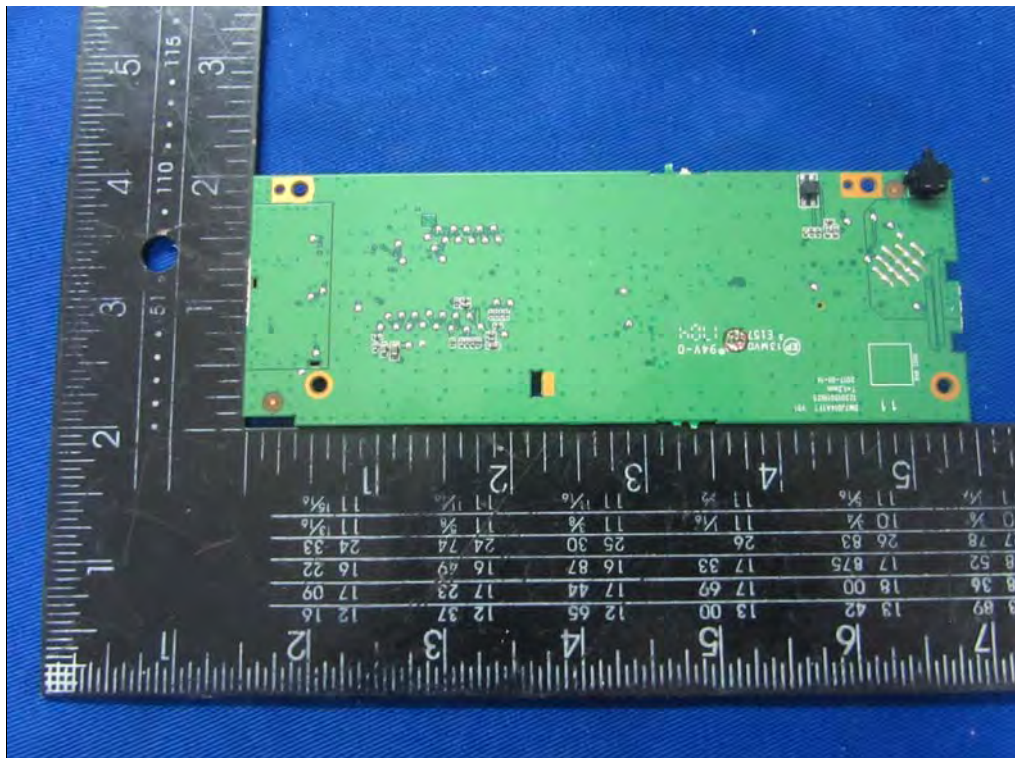
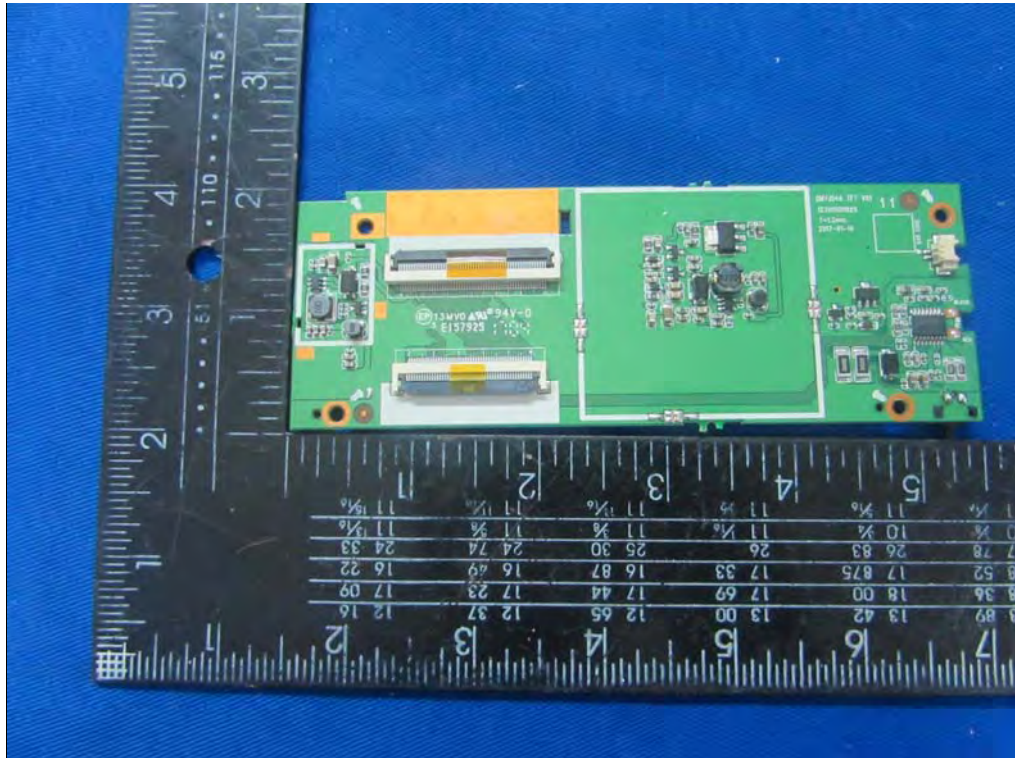
Internal Photos
M/N:VX3016



Internal Photos
M/N:VX3016



Internal Photos
M/N:VX3016



Internal Photos
M/N:VX3016

