

Prüfbericht-Nr.: <i>Test report no.:</i>	CN24YFAT 001	Auftrags-Nr.: <i>Order no.:</i>	168497793	Seite 1 von 15 <i>Page 1 of 15</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-05-28	
Auftraggeber: <i>Client:</i>	CompanyDeep Ltd St John's Innovation Centre, Cowley Road, Cambridge, CB4 0WS, United Kingdom			
Prüfgegenstand: <i>Test item:</i>	IDC7 Bluetooth Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	IDC777, IDC767 (Trademark:  IOT747)			
Auftrags-Inhalt: <i>Order content:</i>	FCC & IC approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207	RSS-247 Issue 3, August 2023 RSS-Gen Issue 5 February 2021		
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-10-28	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003610626			
Prüfzeitraum: <i>Testing period:</i>	2024-10-28 – 2024-12-12			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2025-01-15	Ausstellungsdatum: <i>Issue date:</i> 2025-01-15			
Stellung / Position	Project Manager	Stellung / Position	Authorizer	
Sonstiges / <i>Other:</i>	FCC ID: 2A3WYIDC777 IC: 30237-IDC777 HVIN: IDC767, IDC777 This test report is based on above original grant for below changes: 1. Adding alternative antenna 2. Adding new model (HVIN) 3. re-assessment co-location radiated spurious emissions			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: <i>* Legend:</i>	P(ass) = entspricht o.g. P(ass) = passed a.m. test	F(ail) = entspricht nicht o.g. F(ail) = failed a.m. test specification(s)	N/A = nicht anwendbar N/A = not applicable	N/T = nicht getestet N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</i>
<i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i>
<i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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Test Summary

5.1.1 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.2 CO-LOCATED RADIATED SPURIOUS EMISSIONS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Radiated Testing (Bluetooth module).

Appendix C: Test Results of Radiated Testing (co-location radiated spurious emissions with host)

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Item		Extended Uncertainty
Conducted Emission		± 2.74 dB
Radiated Emission (30-1000MHz)	Field strength (dBμV/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dBμV/m)	4.46dB
Radio Spectrum		± 1.5 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a IDC7 Bluetooth Module, it supports and Bluetooth dual mode wireless technology.
This test report is based on original grant for below changes:

Changes	Description				
Adding alternative antenna	Original antenna: Chip Antenna, 0dBi gain New antenna: integral antenna, 0dBi gain				
Adding new model (HVIN)	Original model (HVIN): IDC777 New model (HVIN): IDC767 The new model identical with original mode except the antenna, the original model use chip antenna and new model use integral antenna with a IPEX connector.				
re-assessment co-location radiated spurious emissions	<table border="1"> <tr> <td>Bluetooth Module</td><td>FCC ID: 2A3WYIDC777 IC: 30237-IDC777</td></tr> <tr> <td>Bluetooth + Wi-Fi Module</td><td>FCC ID: 2AJYB-ST1955, IC: 20504-ST1955 The Classical Bluetooth will be disabled via software while installed in the host.</td></tr> </table> Accommodate the above modules into the Host system Stream Player with model: SA35, SA45	Bluetooth Module	FCC ID: 2A3WYIDC777 IC: 30237-IDC777	Bluetooth + Wi-Fi Module	FCC ID: 2AJYB-ST1955, IC: 20504-ST1955 The Classical Bluetooth will be disabled via software while installed in the host.
Bluetooth Module	FCC ID: 2A3WYIDC777 IC: 30237-IDC777				
Bluetooth + Wi-Fi Module	FCC ID: 2AJYB-ST1955, IC: 20504-ST1955 The Classical Bluetooth will be disabled via software while installed in the host.				

Based on above changes, the Radiated Spurious Emissions for module IDC767 with new antenna, re-assessment co-location radiated spurious emissions with host.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	IDC7 Bluetooth Module
Type Designation	IDC777, IDC767
Trade Mark	
FCC ID	2A3WYIDC777
IC	30237-IDC777
HVIN	IDC777, IDC767
Operating Voltage	DC 3.3V-4.7V for Bluetooth Module AC 100-120V/220-240V, 50/60Hz, 700W Max. for Host SA35 AC 100-120V/220-240V, 50/60Hz, 1000W Max. for Host SA45
Testing Voltage	DC 5V via USB interface for Bluetooth Module AC 120V/60Hz for Host SA35 & SA45

Technical Specification of Classical Bluetooth	
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	integral antenna
Antenna Gain	0 dBi
Technical Specification of Bluetooth Low Energy	
Operating Frequency	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Modulation	GFSK
Data rate	1Mbps, 2Mbps
FPC Antenna	integral antenna
0 dBi	0 dBi

Table 3: RF Channel and Frequency of Bluetooth (BDR & EDR)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Classical Bluetooth wireless transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Bluetooth Low Energy wireless transmitting
 - 4. Low channel
 - 5. Middle channel
 - 6. High channel
- C. co-located transmitting in host SA35
- D. co-located transmitting in host SA45
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, the Radiated Spurious Emissions were arranged retest

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook	Lenovo	ThinkPad X260	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

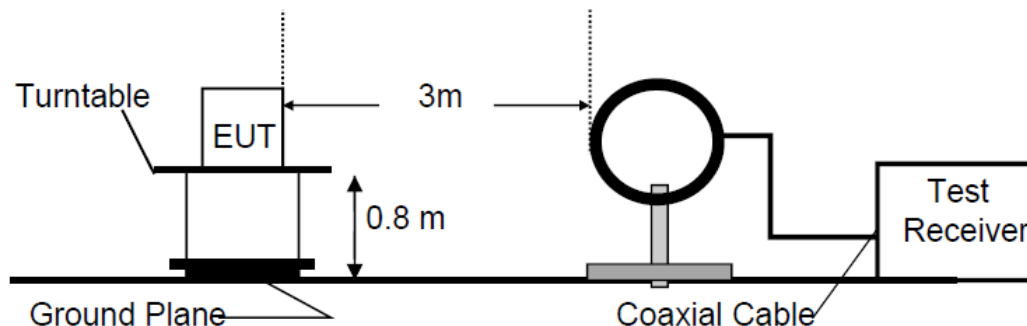


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

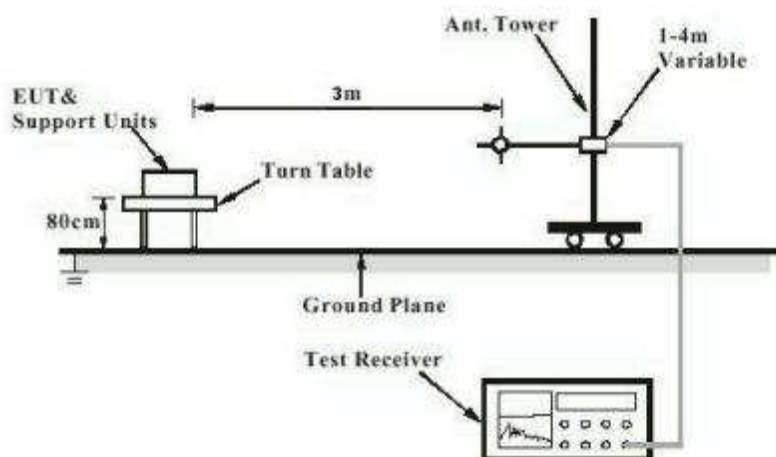
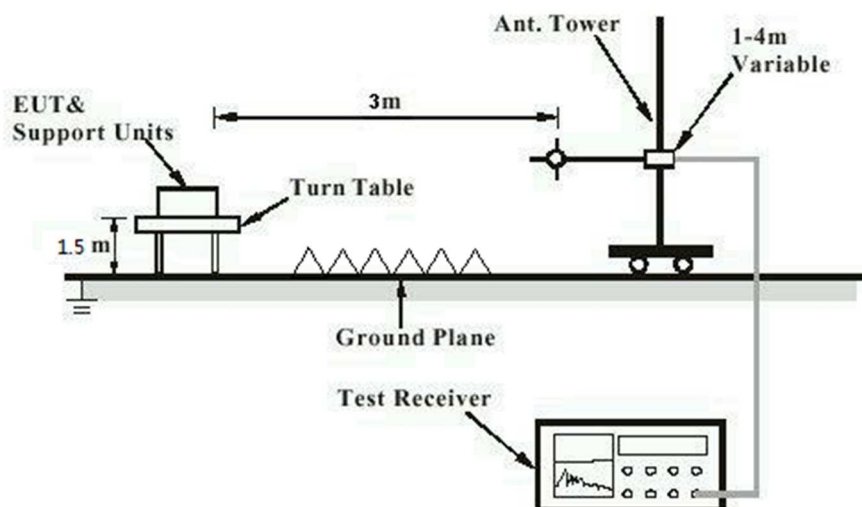


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2024-10-28 to 2024-12-12
Input voltage	: DC 5V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23°C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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5.1.2 Co-Located Radiated Spurious Emissions

RESULT:

Pass

Test Specification

Test standard	:	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2
Basic standard	:	ANSI C63.10: 2013
Limits	:	KDB 996369 D04 The emissions not exceed the highest limit.
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2024-10-28 to 2024-12-12
Input voltage	:	AC 120V/60Hz
Operation mode	:	A, B
Test channel	:	Low / Middle / High
Ambient temperature	:	23°C
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

Remark:

Note: The test plots of Co-located radiated spurious emissions beyond the limit are the fundamental radio frequency of Bluetooth and Wi-Fi.
For the measurement records, refer to the following plots, only the worst case mode are shown in this report.

For the measurement records, refer to the appendix C.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

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Appendix B: Test Results of Radiated Testing (Bluetooth module)

APPENDIX B: TEST RESULTS OF RADIATED TESTING (BLUETOOTH MODULE)1
 APPENDIX B.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS,2
 Classical Bluetooth mode..... 2
 Bluetooth Low Energy mode..... 16
 APPENDIX B.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS30
 Classical Bluetooth mode..... 30
 Bluetooth Low Energy mode, 1 Mbps 34
 Bluetooth Low Energy mode, 2 Mbps 38

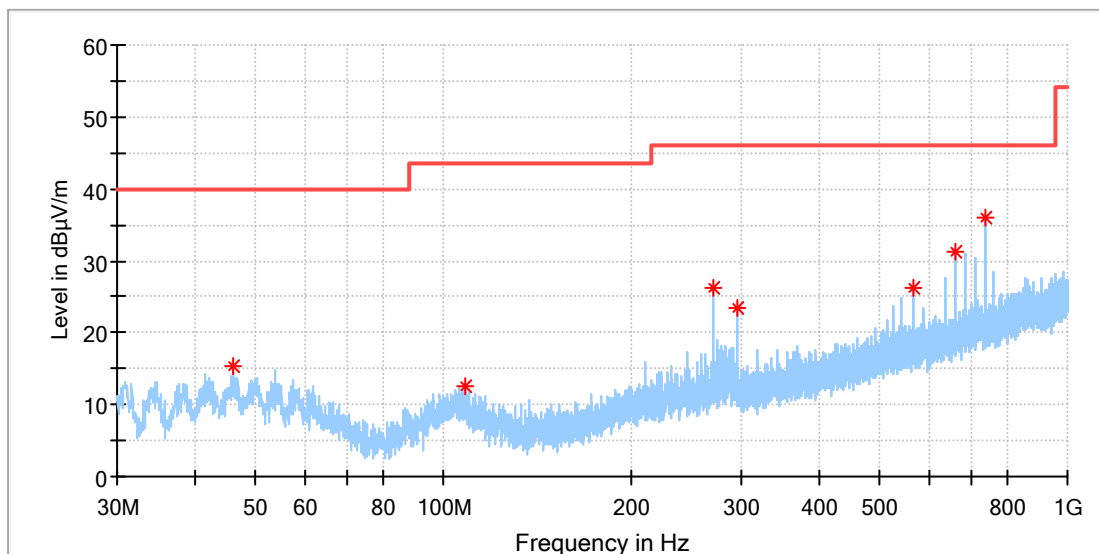
Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.1: Test Results of Radiated Spurious Emissions,

Classical Bluetooth mode
30MHz - 1GHz

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

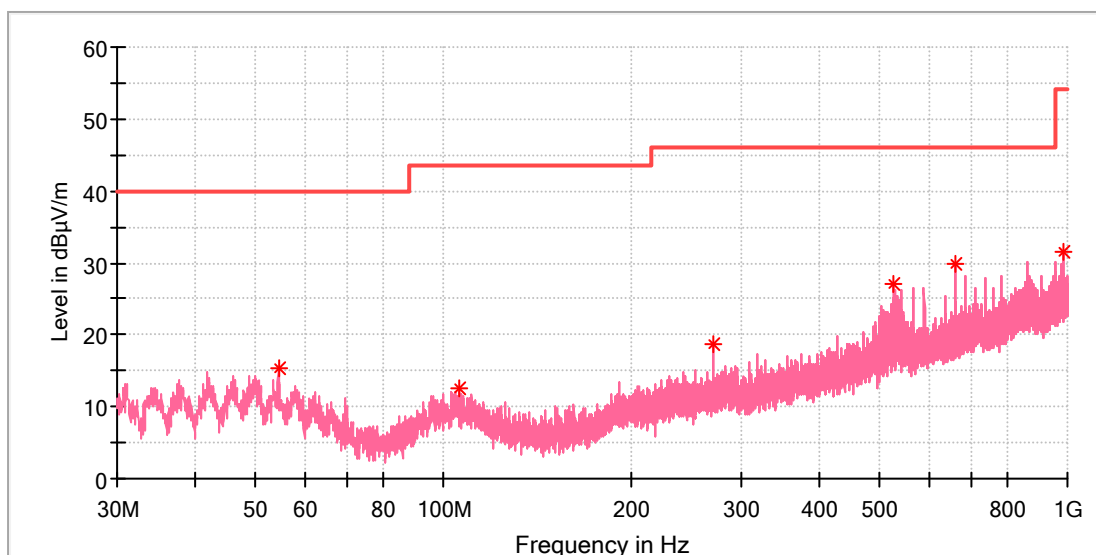


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.005000	15.34	40.00	24.66	100.0	H	45.0	-18.8
108.234231	12.63	43.50	30.87	100.0	H	158.0	-19.1
270.336154	26.27	46.00	19.73	100.0	H	294.0	-16.9
294.921923	23.34	46.00	22.66	100.0	H	286.0	-16.4
565.253462	26.34	46.00	19.66	100.0	H	228.0	-10.4
663.596539	31.19	46.00	14.81	100.0	H	220.0	-8.6
737.316539	36.01	46.00	9.99	100.0	H	235.0	-7.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



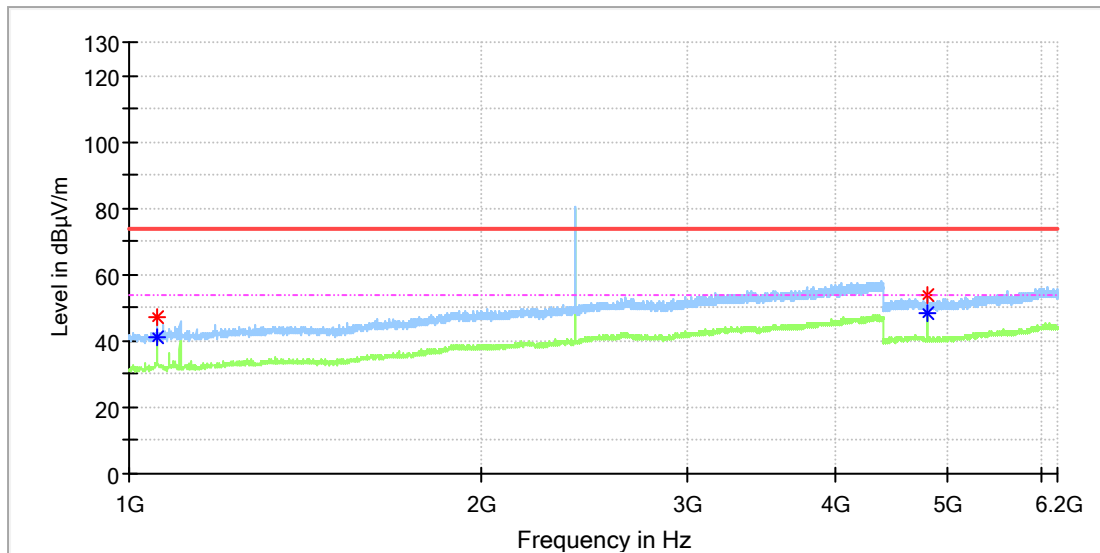
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.361923	15.21	40.00	24.79	100.0	V	180.0	-18.5
106.182308	12.49	43.50	31.01	100.0	V	290.0	-19.0
270.336154	18.68	46.00	27.32	100.0	V	118.0	-16.9
527.945769	27.06	46.00	18.94	100.0	V	4.0	-11.3
663.596539	29.83	46.00	16.17	100.0	V	139.0	-8.6
983.099615	31.59	54.00	22.41	100.0	V	243.0	-3.8

1GHz - 6.2GHz

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

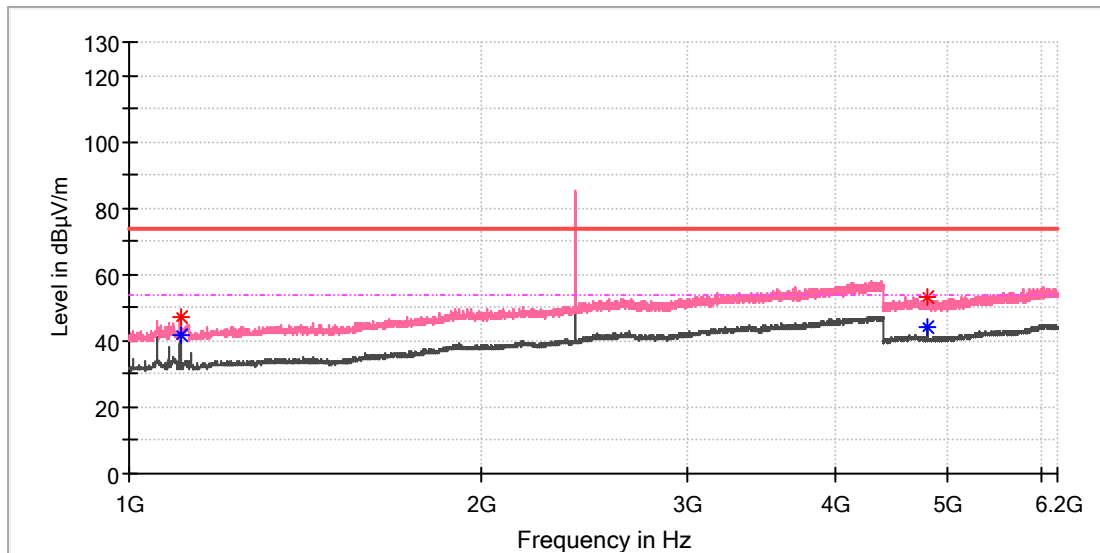


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.500000	47.01	---	74.00	26.99	150.0	H	233.0	0.5
1056.500000	---	41.10	54.00	12.90	150.0	H	233.0	0.5
4803.500000	53.98	---	74.00	20.02	150.0	H	243.0	13.3
4804.000000	---	48.36	54.00	5.64	150.0	H	243.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

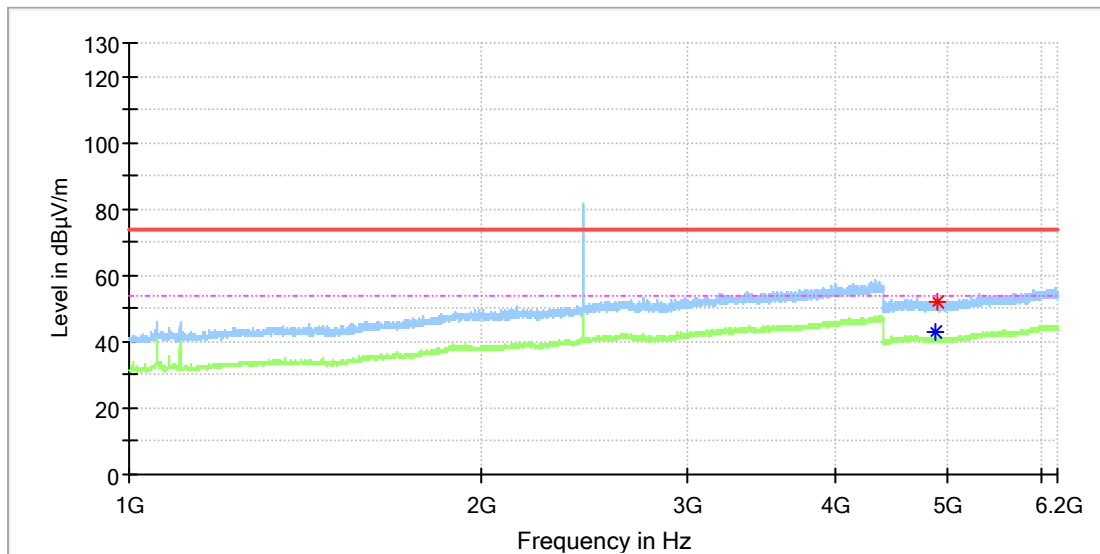


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.500000	46.95	---	74.00	27.05	150.0	V	217.0	0.6
1105.500000	---	41.95	54.00	12.05	150.0	V	217.0	0.6
4802.000000	53.01	---	74.00	20.99	150.0	V	21.0	13.3
4804.000000	---	44.30	54.00	9.71	150.0	V	223.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

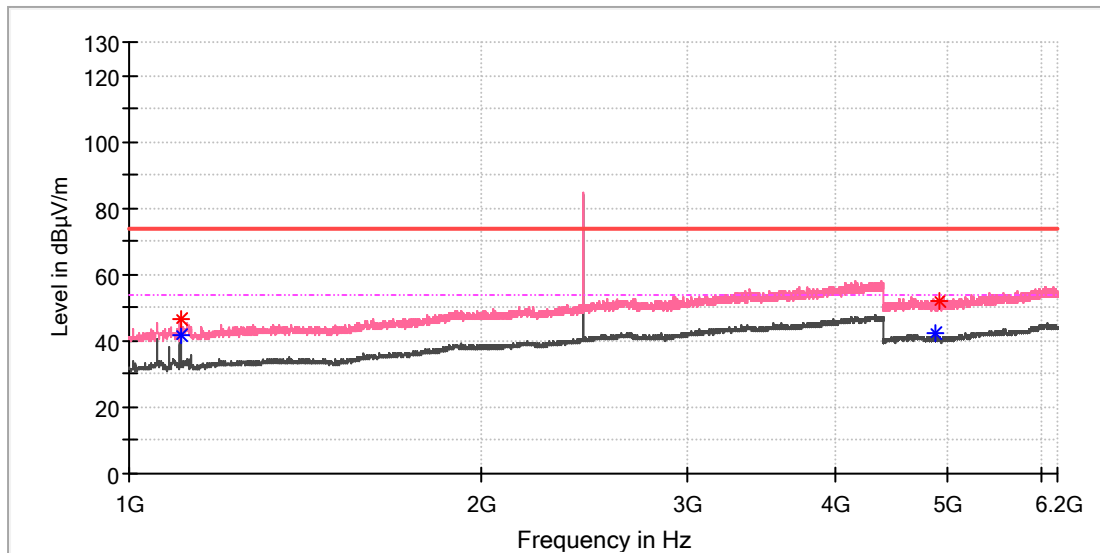


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	42.99	54.00	11.01	150.0	H	168.0	13.3
4892.500000	52.02	---	74.00	21.98	150.0	H	6.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

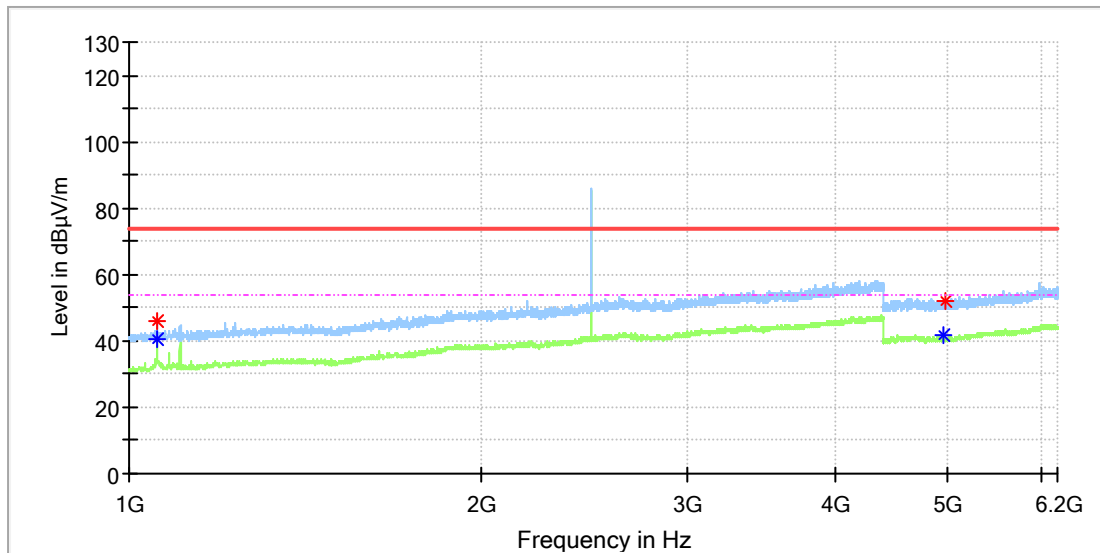


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.500000	46.65	---	74.00	27.35	150.0	V	217.0	0.6
1106.000000	---	41.58	54.00	12.42	150.0	V	212.0	0.6
4882.000000	---	42.36	54.00	11.64	150.0	V	191.0	13.3
4909.000000	52.14	---	74.00	21.86	150.0	V	84.0	13.3

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

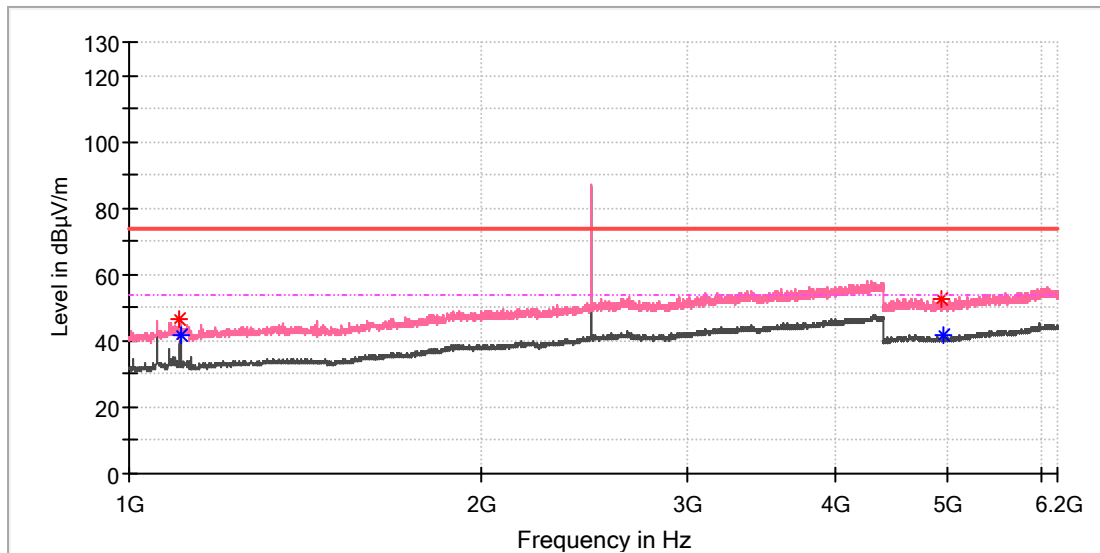


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.500000	46.03	---	74.00	27.97	150.0	H	235.0	0.5
1056.500000	---	40.44	54.00	13.56	150.0	H	235.0	0.5
4959.500000	---	41.86	54.00	12.14	150.0	H	243.0	13.3
4976.500000	51.74	---	74.00	22.26	150.0	H	48.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



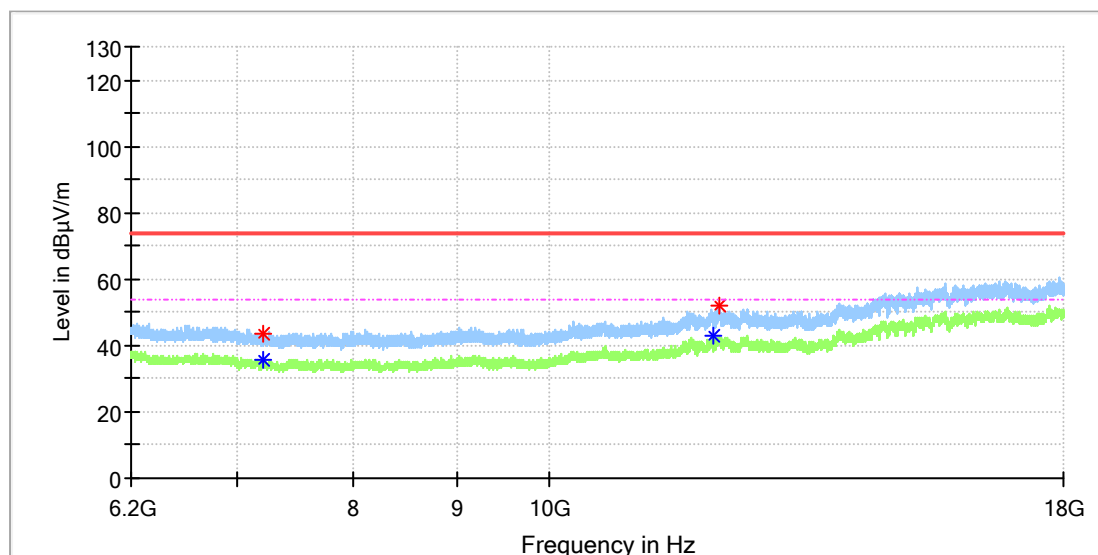
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.000000	46.80	---	74.00	27.20	150.0	V	212.0	0.6
1105.500000	---	41.90	54.00	12.10	150.0	V	212.0	0.6
4937.500000	52.32	---	74.00	21.68	150.0	V	103.0	13.3
4960.000000	---	41.96	54.00	12.04	150.0	V	189.0	13.3

6.2GHz - 18GHz

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

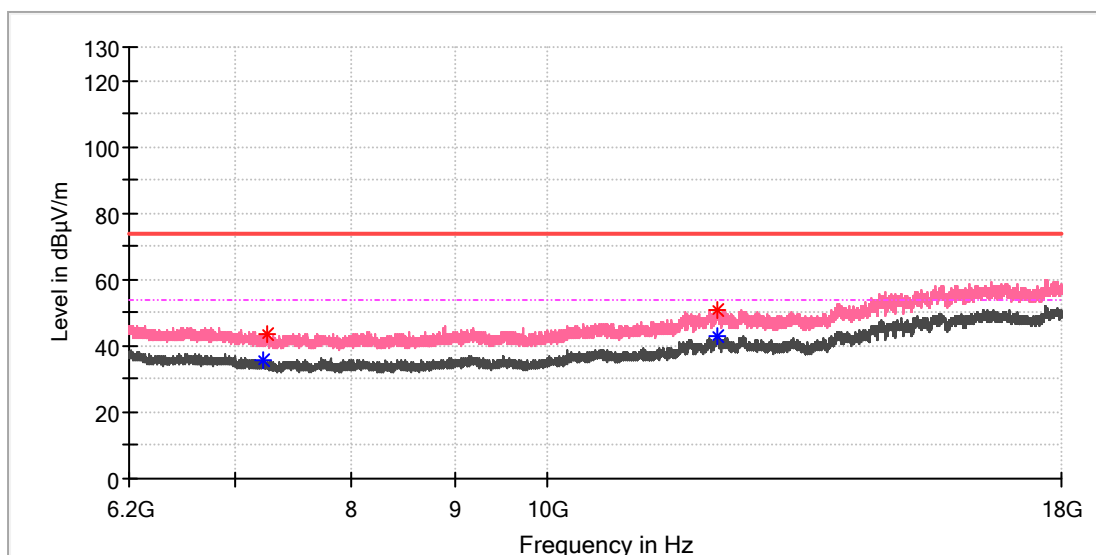


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.391667	43.60	---	74.00	30.40	150.0	H	0.0	8.8
7214.308333	---	35.55	54.00	18.45	150.0	H	296.0	8.7
12052.800000	---	43.12	54.00	10.88	150.0	H	285.0	16.1
12151.133333	52.26	---	74.00	21.74	150.0	H	330.0	16.7

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

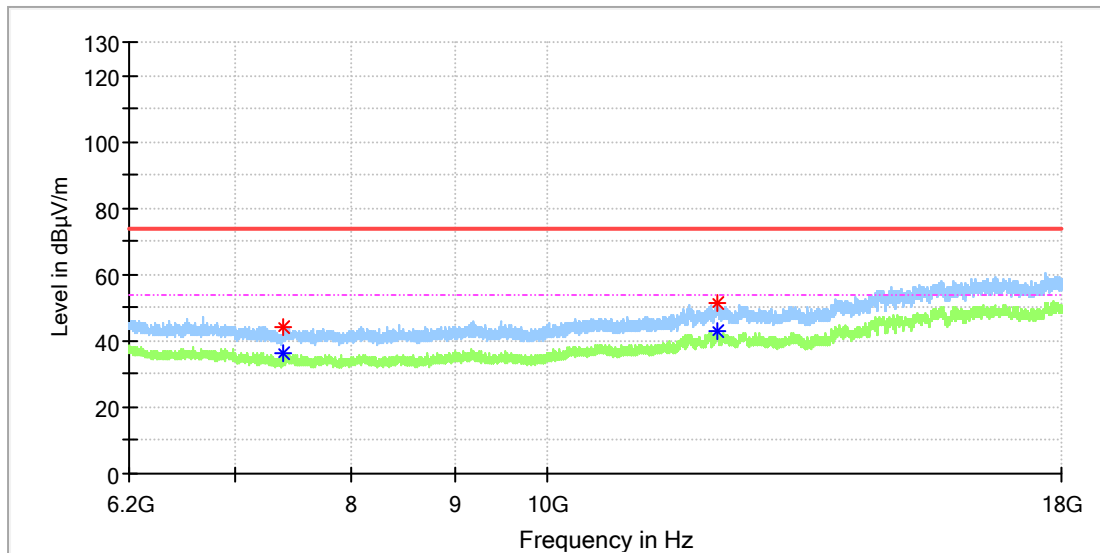


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7230.041667	---	35.74	54.00	18.26	150.0	V	149.0	8.6
7260.033333	43.74	---	74.00	30.26	150.0	V	0.0	8.5
12135.891667	---	42.85	54.00	11.15	150.0	V	116.0	16.4
12144.741667	50.52	---	74.00	23.48	150.0	V	329.0	16.6

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

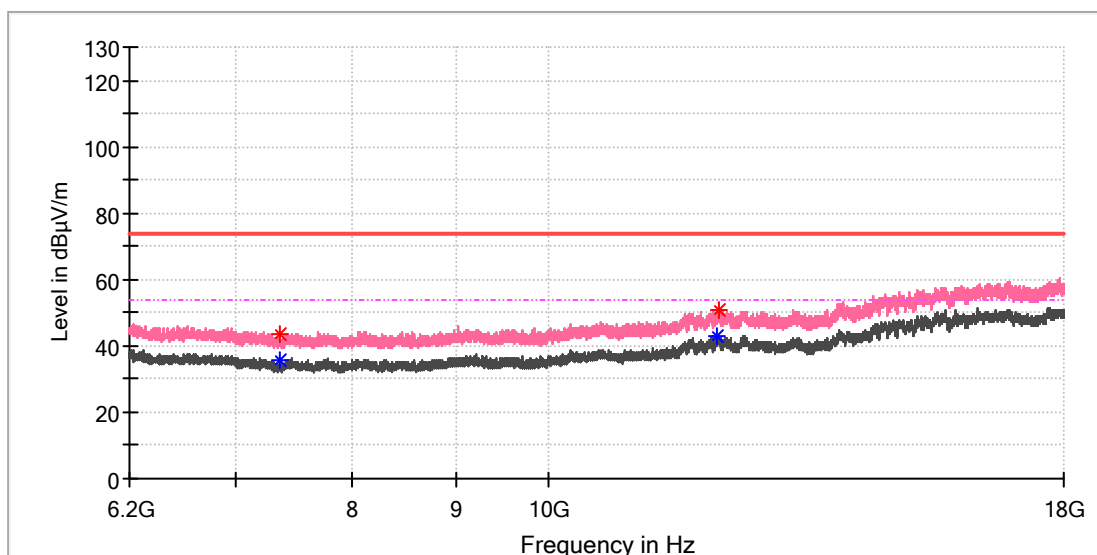


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7394.258333	43.91	---	74.00	30.09	150.0	H	288.0	8.3
7394.258333	---	36.34	54.00	17.66	150.0	H	288.0	8.3
12146.708333	51.22	---	74.00	22.78	150.0	H	3.0	16.6
12146.708333	---	43.08	54.00	10.92	150.0	H	3.0	16.6

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

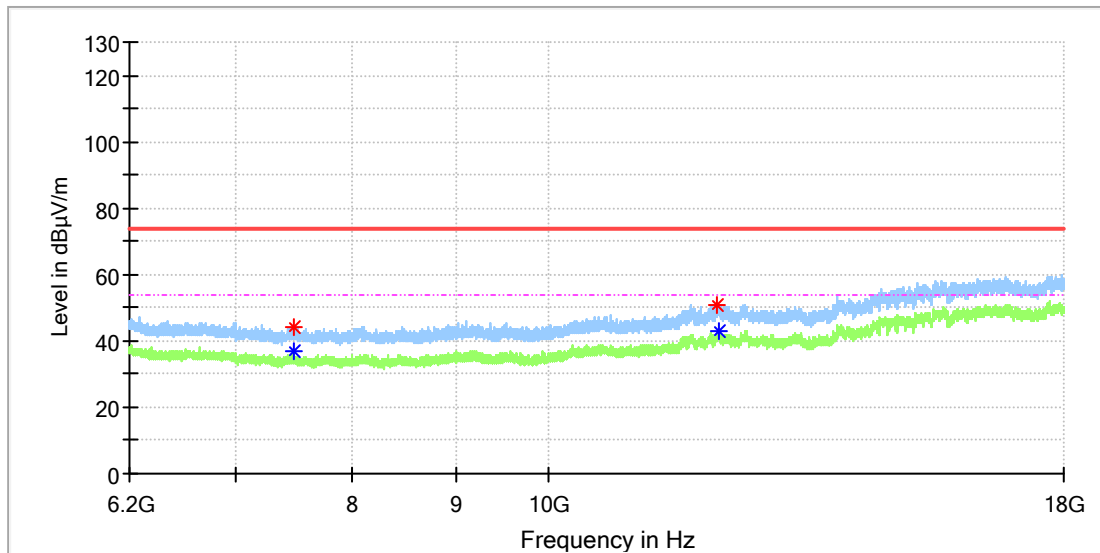


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7354.925000	43.42	---	74.00	30.58	150.0	V	271.0	8.1
7361.808333	---	35.62	54.00	18.38	150.0	V	271.0	8.2
12123.108333	---	42.79	54.00	11.21	150.0	V	136.0	16.0
12154.575000	50.79	---	74.00	23.21	150.0	V	325.0	16.5

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

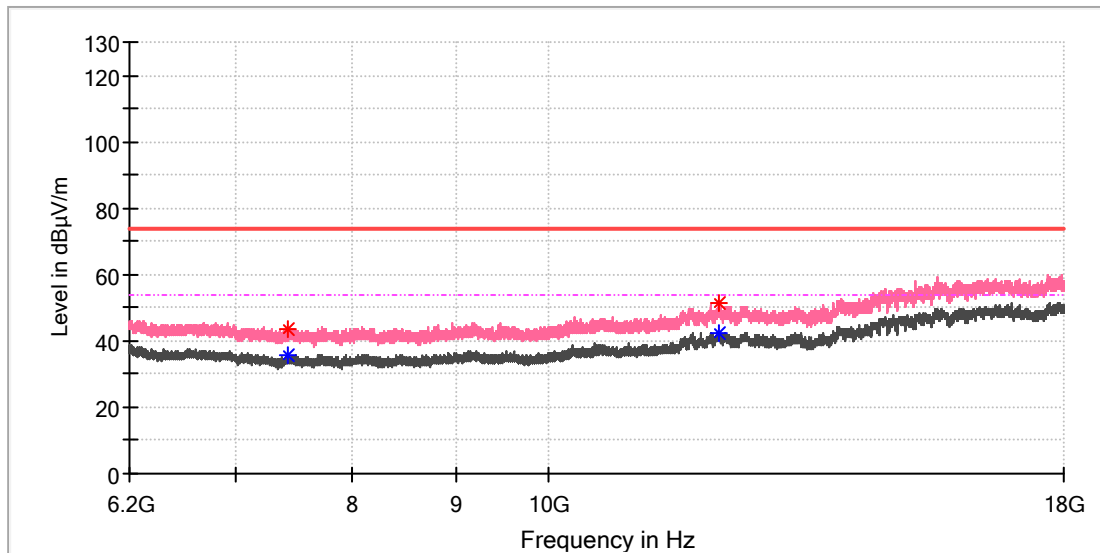


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7473.908333	---	36.77	54.00	17.23	150.0	H	165.0	8.6
7475.875000	43.89	---	74.00	30.11	150.0	H	290.0	8.6
12130.483333	50.73	---	74.00	23.27	150.0	H	230.0	16.2
12146.708333	---	42.66	54.00	11.34	150.0	H	0.0	16.6

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



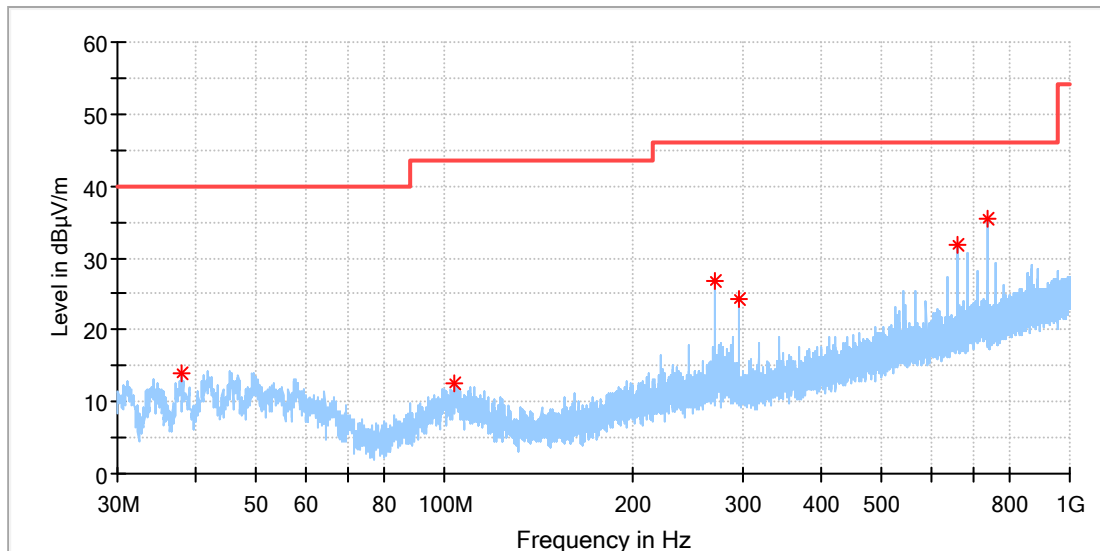
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7426.708333	---	35.78	54.00	18.22	150.0	V	0.0	8.4
7432.116667	43.31	---	74.00	30.69	150.0	V	336.0	8.4
12134.908333	---	42.47	54.00	11.53	150.0	V	255.0	16.3
12139.333333	51.22	---	74.00	22.78	150.0	V	325.0	16.5

**Bluetooth Low Energy mode
30MHz - 1GHz**

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

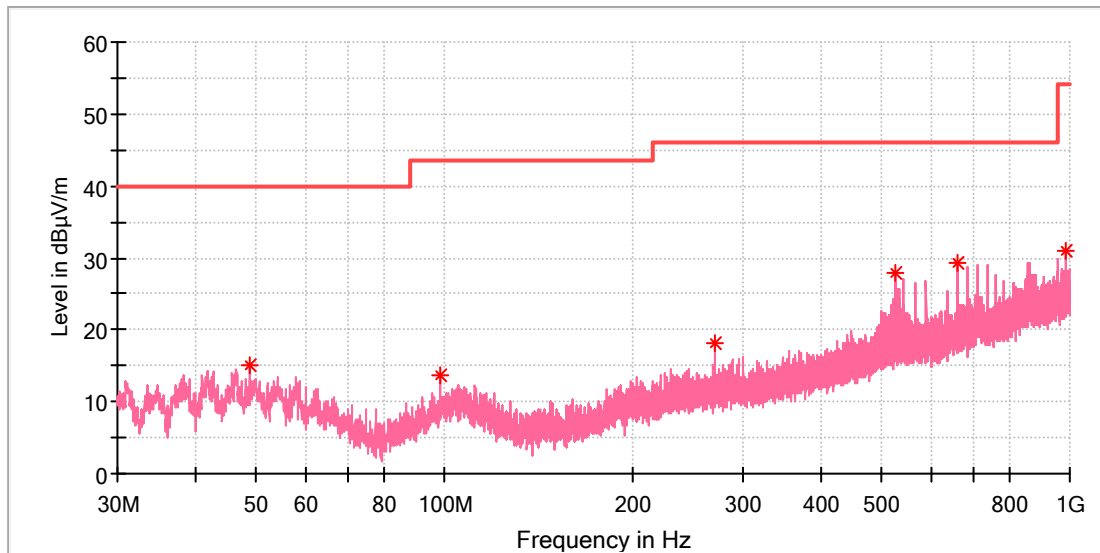


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.946539	14.09	40.00	25.91	100.0	H	91.0	-20.8
104.055769	12.64	43.50	30.86	100.0	H	265.0	-18.9
270.336154	26.75	46.00	19.25	100.0	H	281.0	-16.9
294.921923	24.38	46.00	21.62	100.0	H	289.0	-16.4
663.559231	31.71	46.00	14.29	100.0	H	211.0	-8.6
737.316539	35.39	46.00	10.61	100.0	H	235.0	-7.3

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



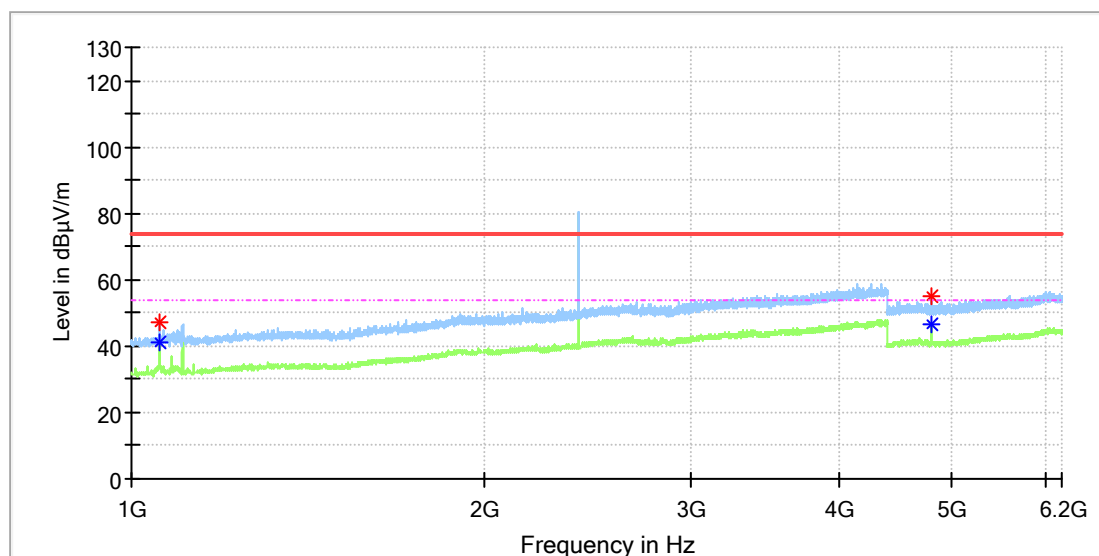
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.915000	15.15	40.00	24.85	100.0	V	0.0	-18.4
98.385000	13.54	43.50	29.96	100.0	V	135.0	-19.3
270.336154	18.09	46.00	27.91	100.0	V	102.0	-16.9
527.983077	27.81	46.00	18.19	100.0	V	218.0	-11.3
663.596539	29.32	46.00	16.68	100.0	V	135.0	-8.6
983.062308	30.96	54.00	23.04	100.0	V	227.0	-3.8

1GHz - 6.2GHz

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

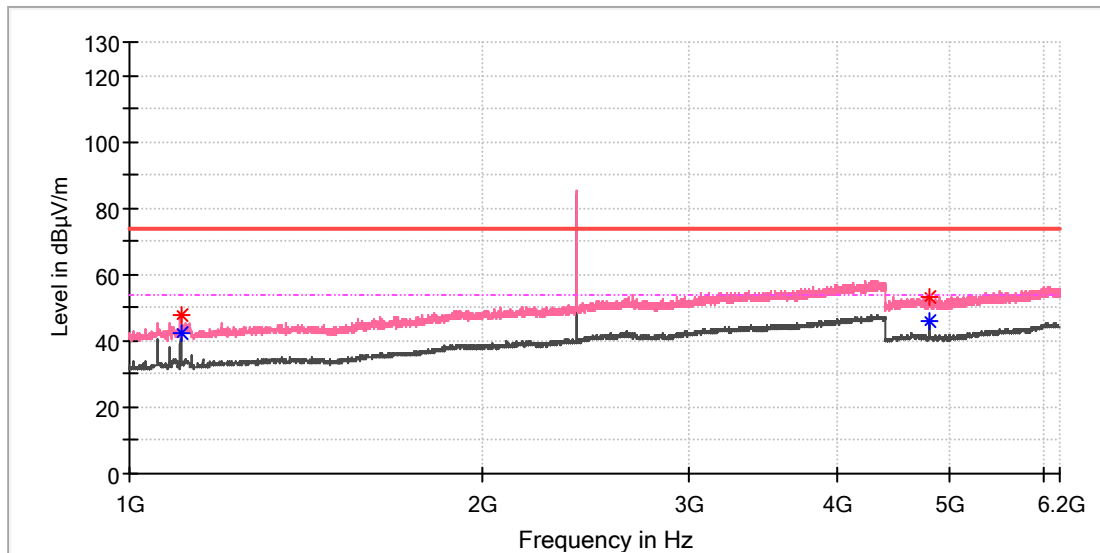


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.500000	---	41.40	54.00	12.60	150.0	H	227.0	0.5
1057.000000	47.07	---	74.00	26.93	150.0	H	227.0	0.5
4803.500000	54.88	---	74.00	19.12	150.0	H	255.0	13.3
4803.500000	---	46.74	54.00	7.26	150.0	H	255.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

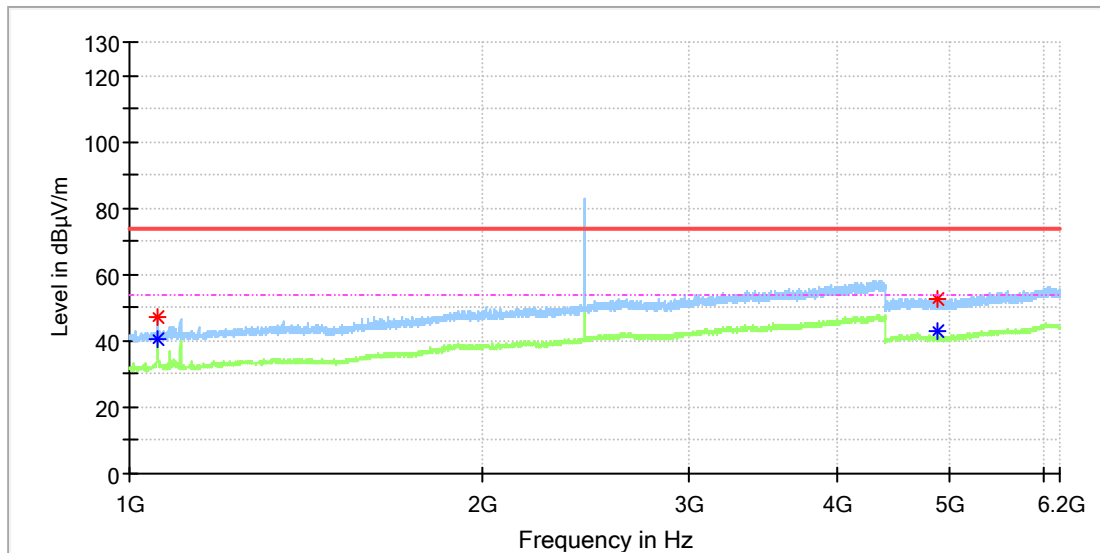


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.500000	---	42.28	54.00	11.72	150.0	V	205.0	0.6
1106.000000	47.48	---	74.00	26.52	150.0	V	224.0	0.6
4803.500000	53.07	---	74.00	20.93	150.0	V	238.0	13.3
4803.500000	---	46.05	54.00	7.95	150.0	V	238.0	13.3

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

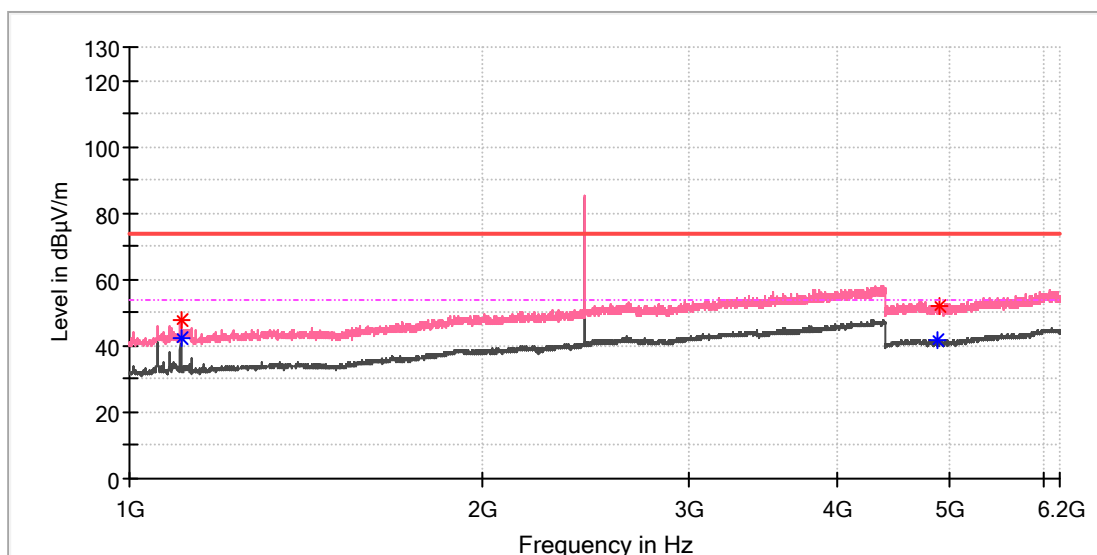


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.000000	47.41	---	74.00	26.59	150.0	H	224.0	0.5
1056.500000	---	40.80	54.00	13.20	150.0	H	87.0	0.5
4879.000000	52.89	---	74.00	21.11	150.0	H	193.0	13.3
4880.000000	---	43.14	54.00	10.86	150.0	H	255.0	13.3

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

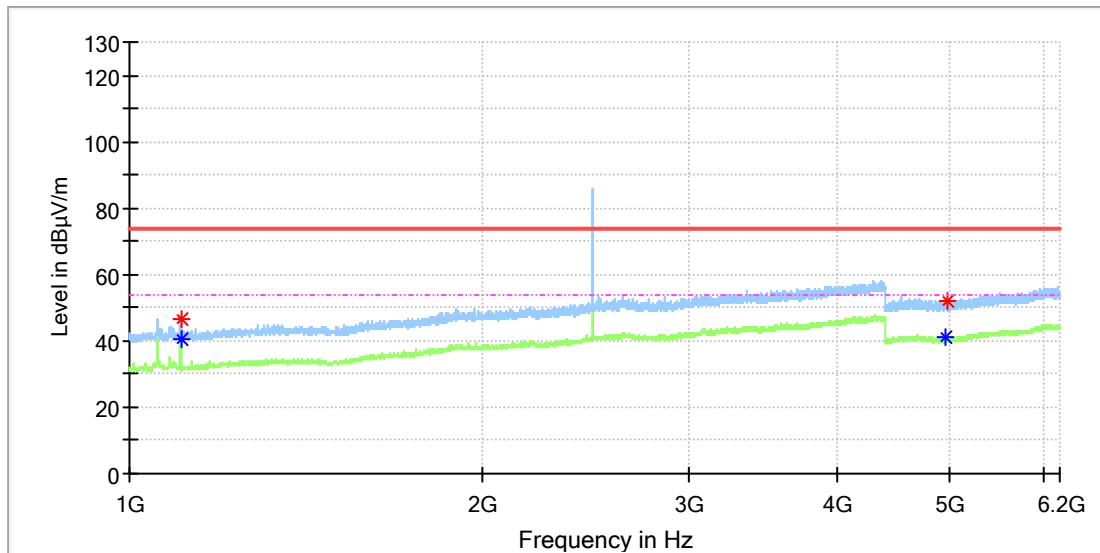


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.500000	---	42.31	54.00	11.69	150.0	V	217.0	0.6
1106.500000	47.83	---	74.00	26.17	150.0	V	217.0	0.6
4879.500000	---	42.01	54.00	11.99	150.0	V	219.0	13.3
4897.000000	51.93	---	74.00	22.07	150.0	V	253.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

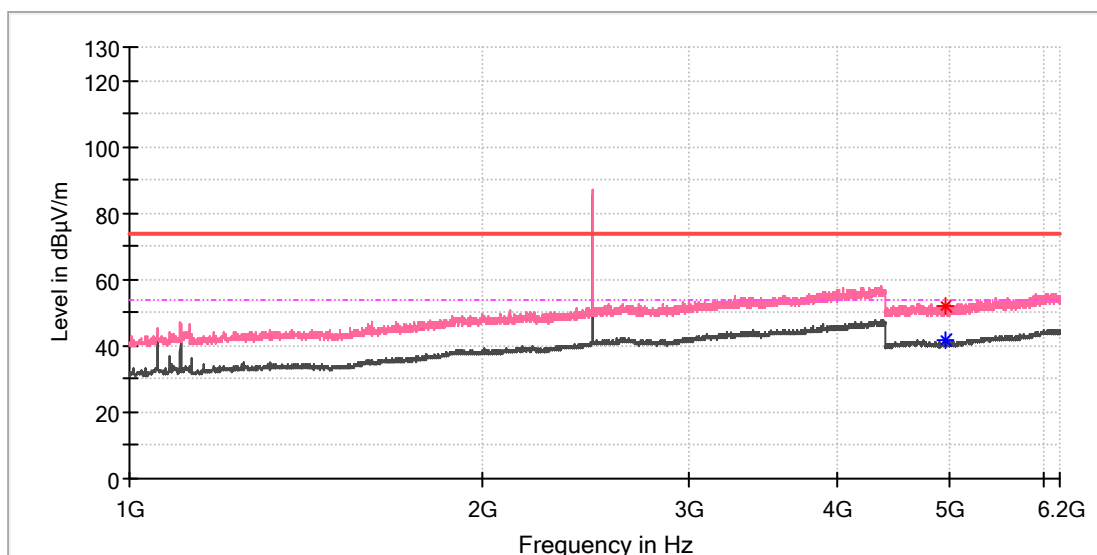


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.500000	46.69	---	74.00	27.31	150.0	H	308.0	0.6
1105.500000	---	40.56	54.00	13.44	150.0	H	308.0	0.6
4959.000000	---	41.35	54.00	12.65	150.0	H	163.0	13.3
4976.000000	52.24	---	74.00	21.76	150.0	H	83.0	13.3

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	---	41.53	54.00	12.47	150.0	V	77.0	13.3
4961.500000	52.07	---	74.00	21.93	150.0	V	15.0	13.3

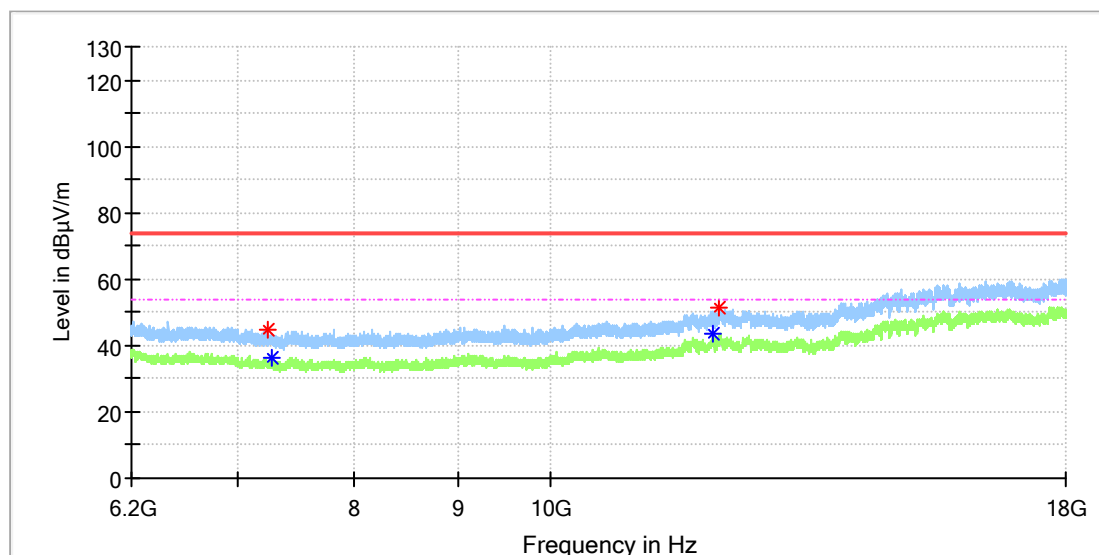
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

6.2GHz - 18GHz

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

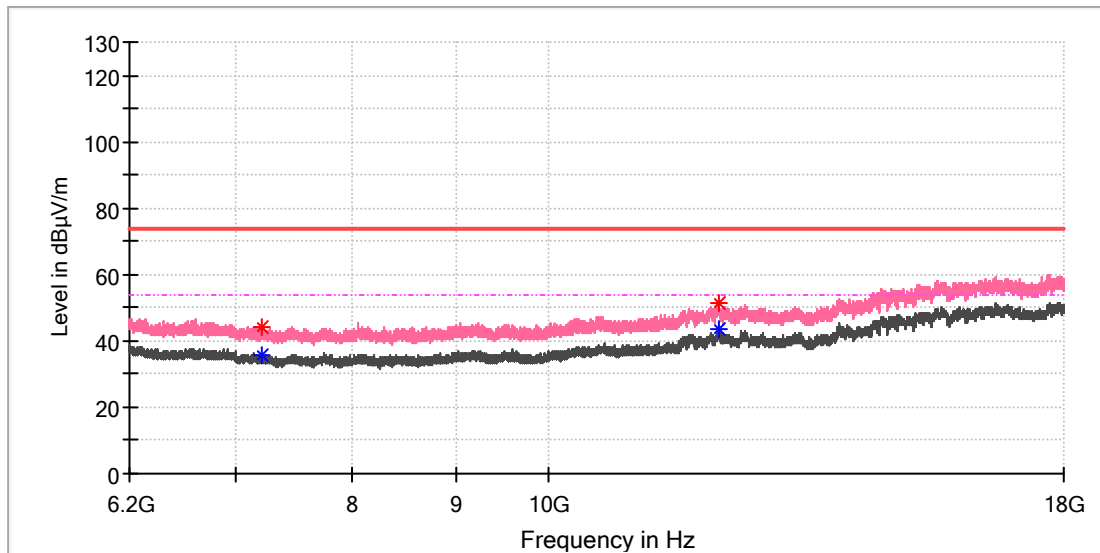


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7247.741667	44.86	---	74.00	29.14	150.0	H	203.0	8.5
7281.175000	---	36.04	54.00	17.96	150.0	H	258.0	8.4
12046.900000	---	43.77	54.00	10.23	150.0	H	29.0	16.3
12125.075000	51.13	---	74.00	22.87	150.0	H	258.0	16.1

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

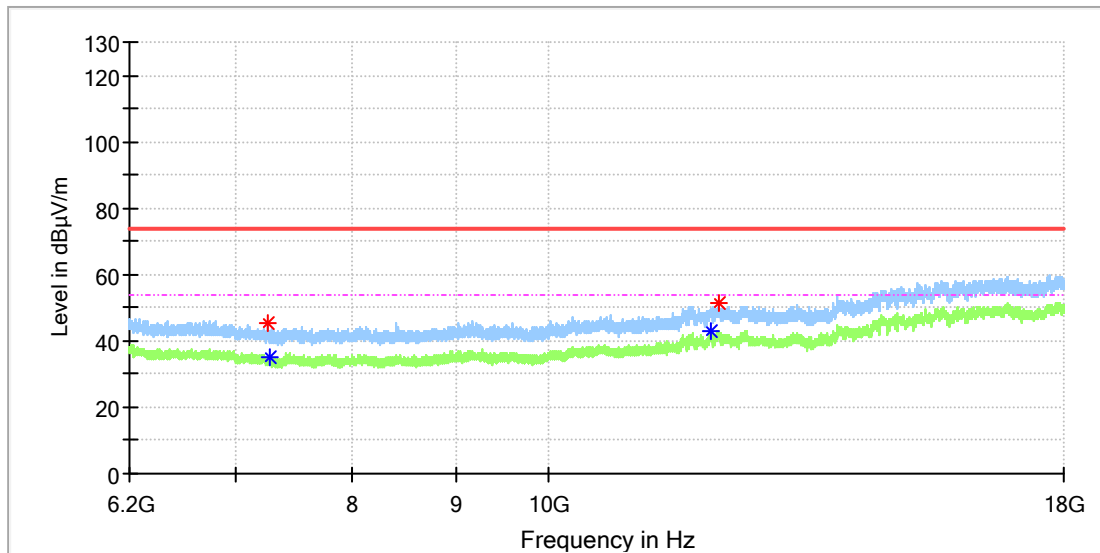


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7208.408333	---	35.54	54.00	18.46	150.0	V	6.0	8.8
7214.800000	44.05	---	74.00	29.95	150.0	V	163.0	8.7
12133.925000	---	43.25	54.00	10.75	150.0	V	151.0	16.3
12146.708333	51.35	---	74.00	22.65	150.0	V	304.0	16.6

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

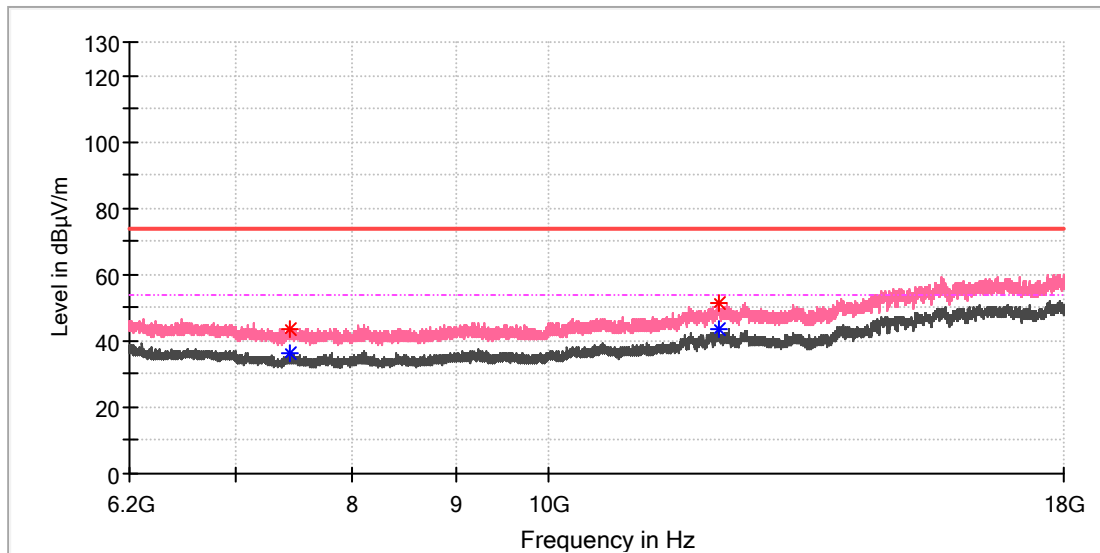


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7255.116667	45.09	---	74.00	28.91	150.0	H	188.0	8.5
7279.700000	---	35.08	54.00	18.92	150.0	H	105.0	8.4
12038.050000	---	42.63	54.00	11.37	150.0	H	0.0	16.1
12147.691667	51.33	---	74.00	22.67	150.0	H	331.0	16.7

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

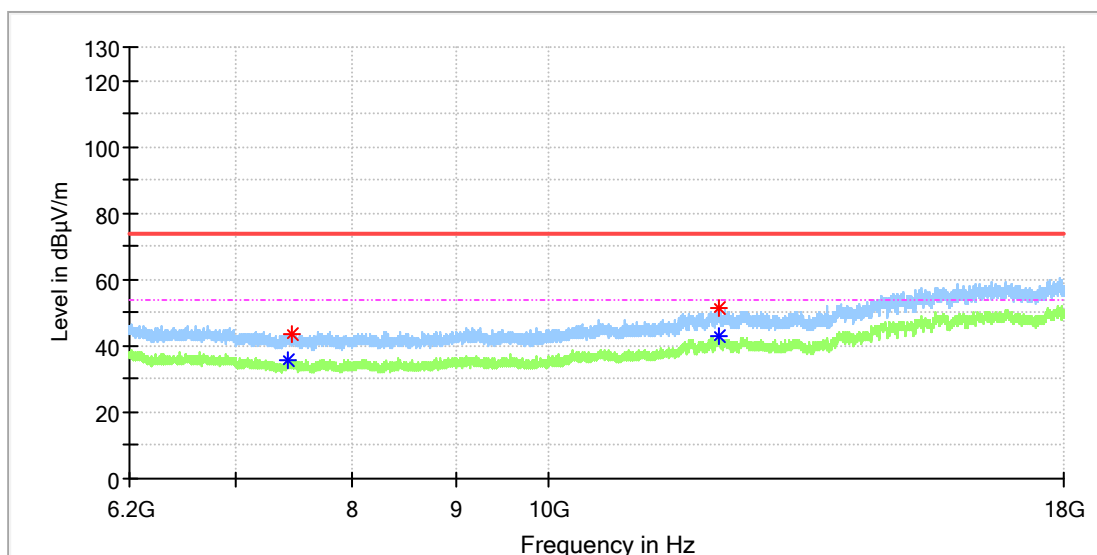


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7437.525000	43.78	---	74.00	30.22	150.0	V	101.0	8.4
7449.325000	---	36.27	54.00	17.73	150.0	V	112.0	8.5
12135.400000	---	43.79	54.00	10.21	150.0	V	173.0	16.3
12154.575000	51.11	---	74.00	22.89	150.0	V	0.0	16.5

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

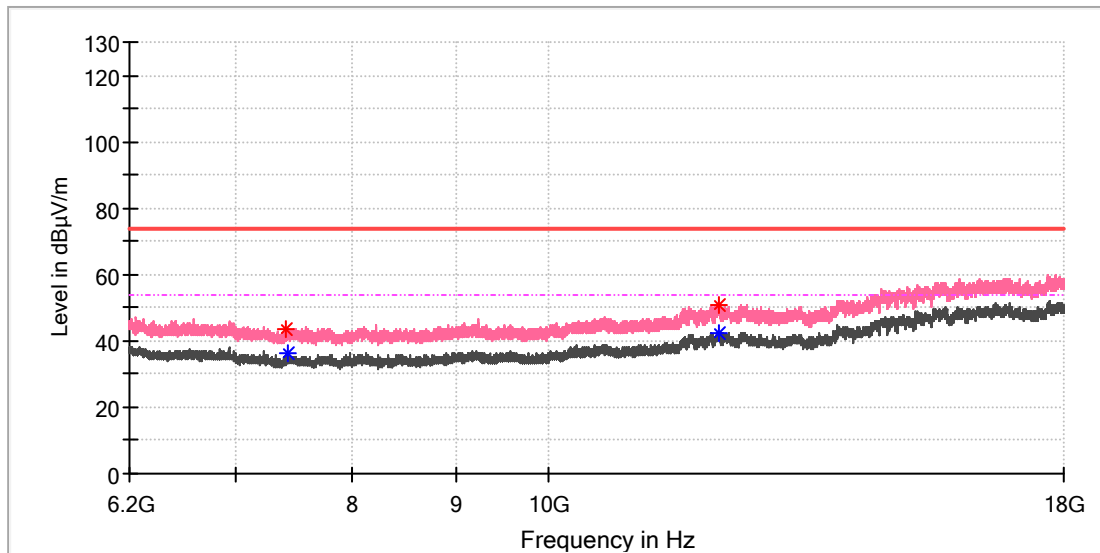


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7436.050000	---	35.73	54.00	18.28	150.0	H	183.0	8.4
7462.600000	43.48	---	74.00	30.52	150.0	H	129.0	8.6
12146.708333	---	42.99	54.00	11.01	150.0	H	173.0	16.6
12153.100000	51.25	---	74.00	22.75	150.0	H	107.0	16.6

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 1M_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

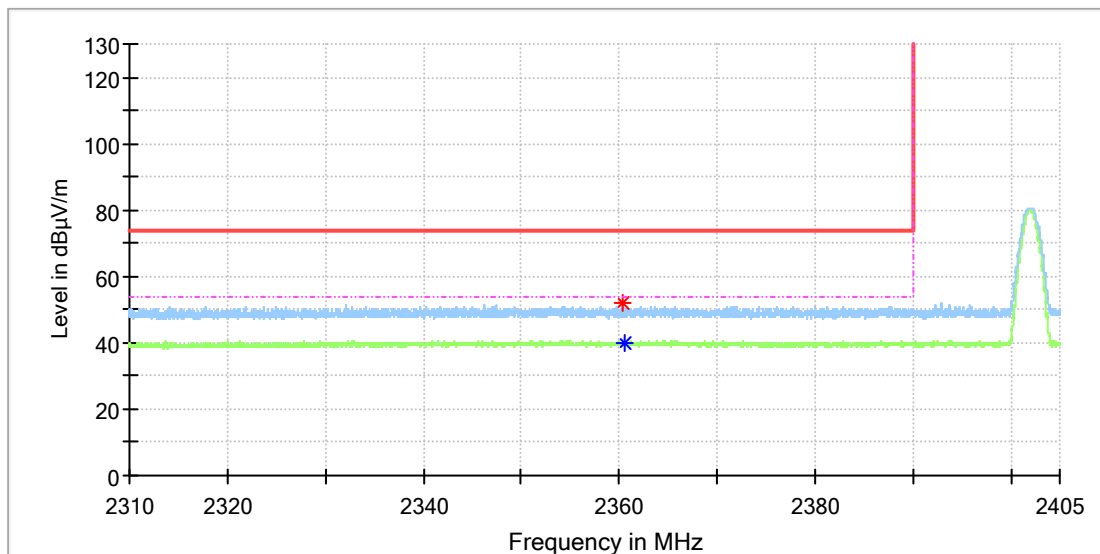
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7407.041667	43.58	---	74.00	30.42	150.0	V	269.0	8.3
7421.300000	---	36.31	54.00	17.69	150.0	V	170.0	8.4
12134.908333	50.72	---	74.00	23.28	150.0	V	290.0	16.3
12145.233333	---	42.39	54.00	11.61	150.0	V	258.0	16.6

Appendix B.2: Test Results of Radiated Emissions in Restricted Bands

Classical Bluetooth mode
Low channel

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_Low channel
Order No./Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

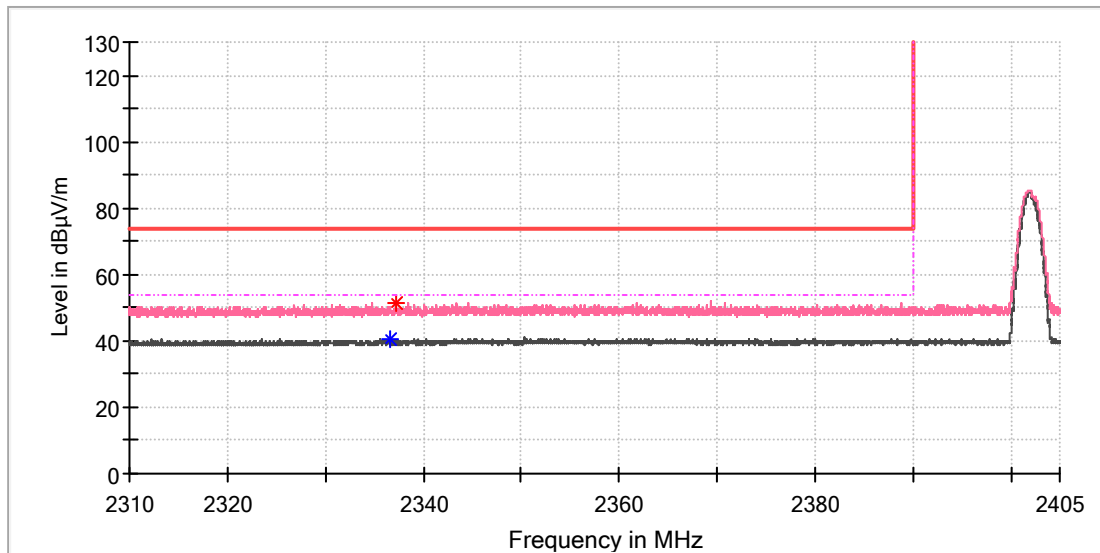


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2360.350000	51.90	---	74.00	22.10	150.0	H	116.0	8.5
2360.629412	---	40.20	54.00	13.80	150.0	H	207.0	8.5

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



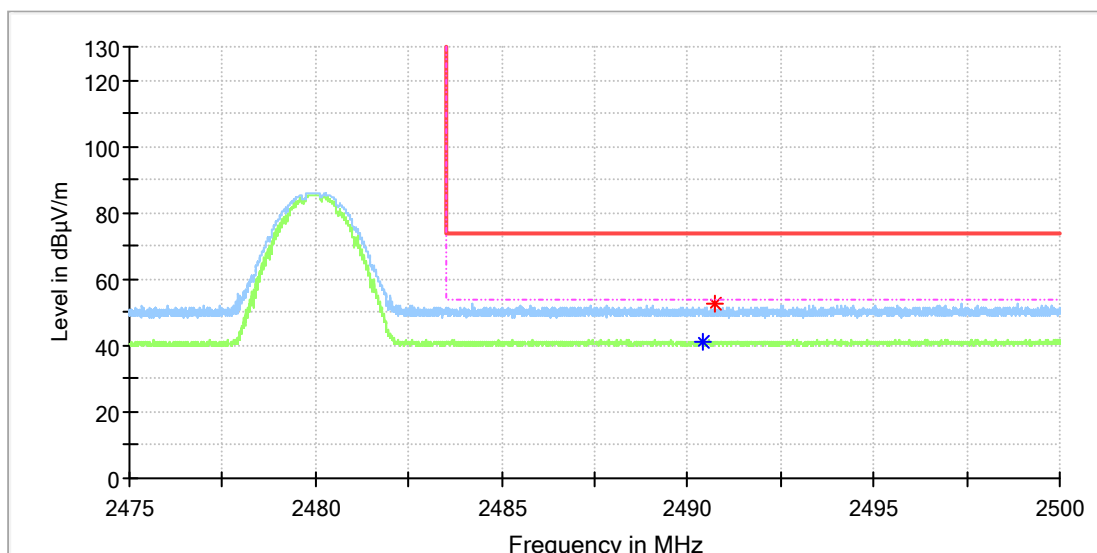
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2336.558088	---	40.60	54.00	13.40	150.0	V	101.0	8.4
2337.144853	51.13	---	74.00	22.87	150.0	V	353.0	8.4

High channel

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

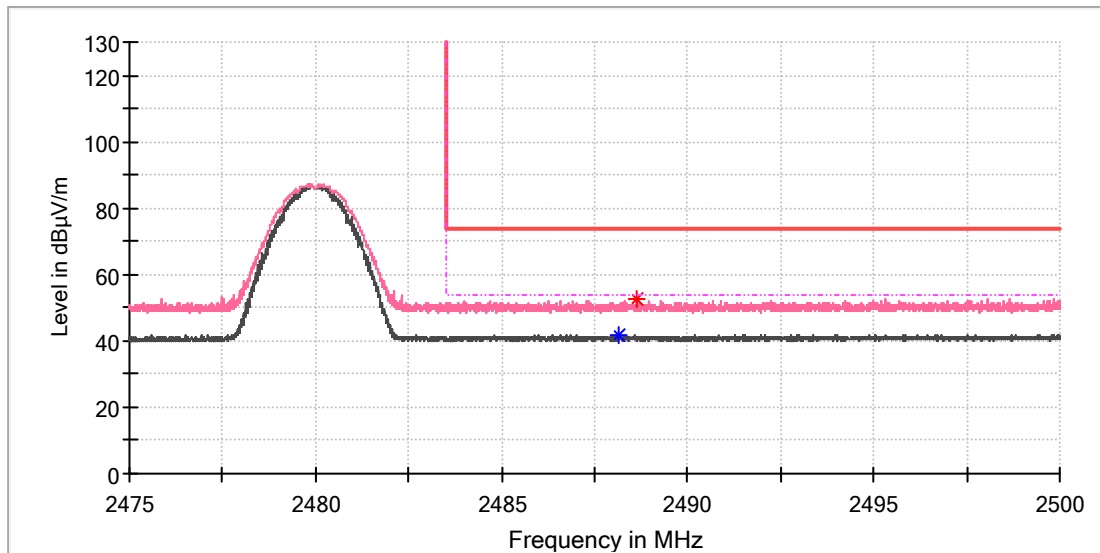


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.408088	---	41.37	54.00	12.63	150.0	H	156.0	9.0
2490.709559	52.76	---	74.00	21.24	150.0	H	70.0	9.0

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



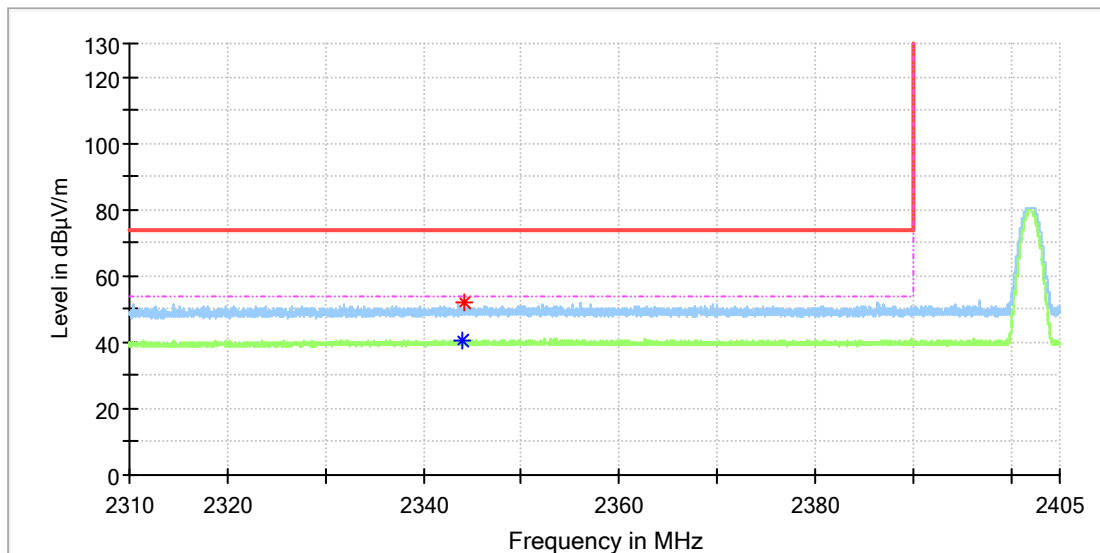
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.150735	---	41.79	54.00	12.21	150.0	V	89.0	9.0
2488.625000	52.46	---	74.00	21.54	150.0	V	27.0	9.0

Bluetooth Low Energy mode, 1 Mbps Low channel

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

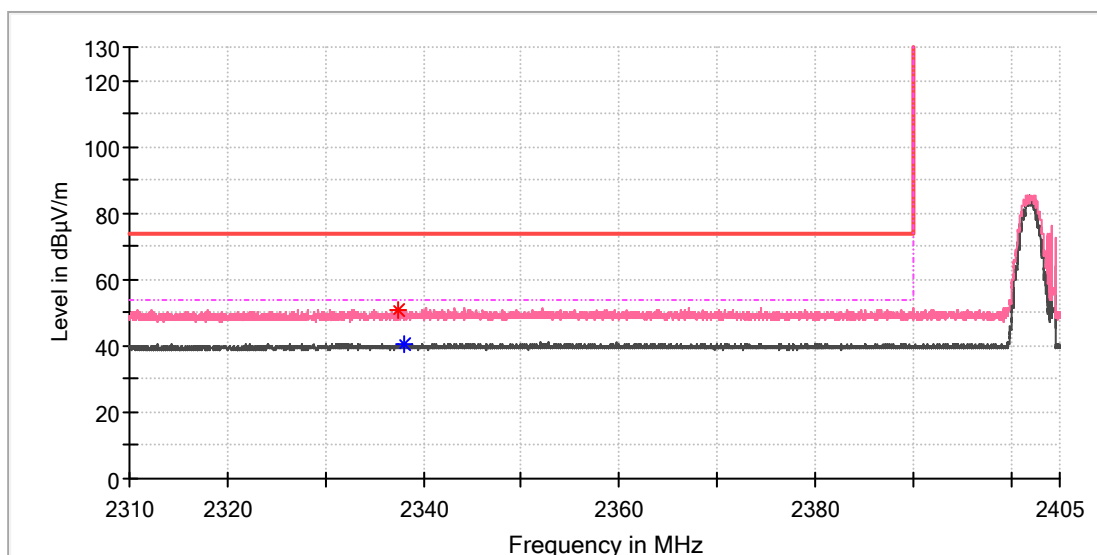


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2344.004412	---	40.46	54.00	13.54	150.0	H	95.0	8.4
2344.116177	52.15	---	74.00	21.85	150.0	H	265.0	8.4

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



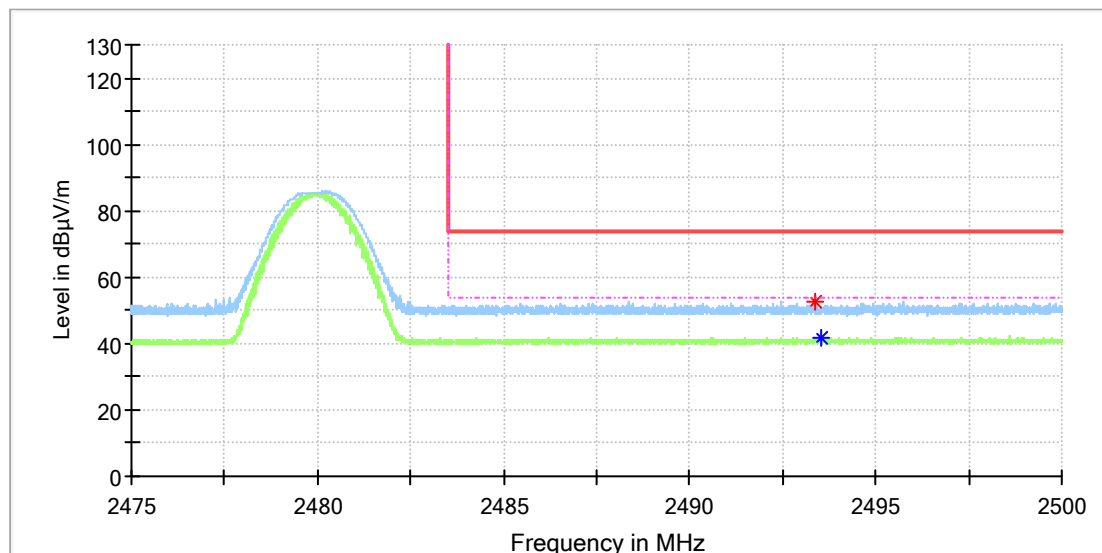
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2337.452206	51.01	---	74.00	22.99	150.0	V	45.0	8.4
2337.969118	---	40.64	54.00	13.36	150.0	V	131.0	8.4

High channel

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

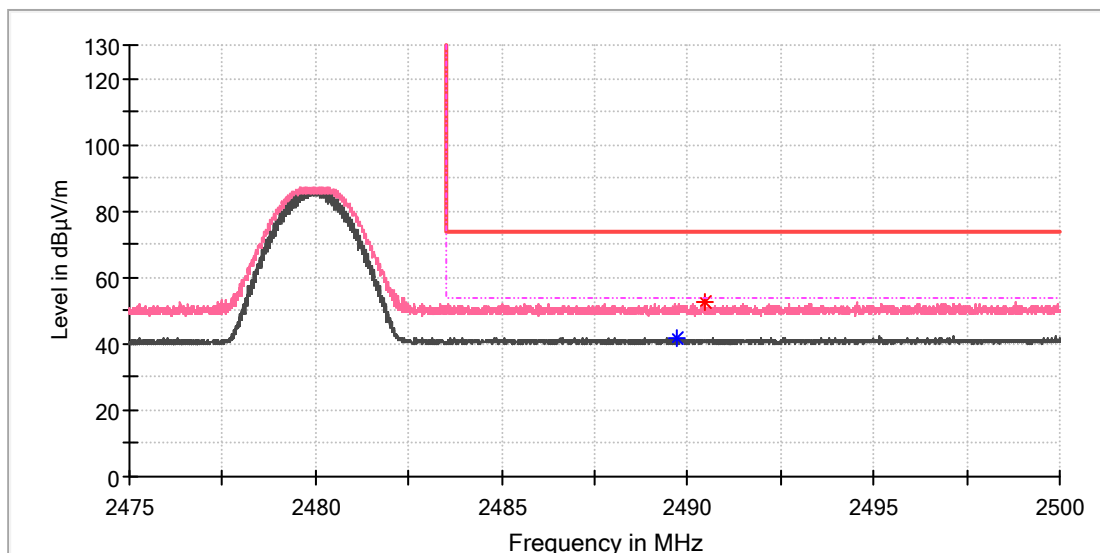


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.389706	52.80	---	74.00	21.20	150.0	H	255.0	9.0
2493.525735	---	41.66	54.00	12.34	150.0	H	113.0	9.0

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



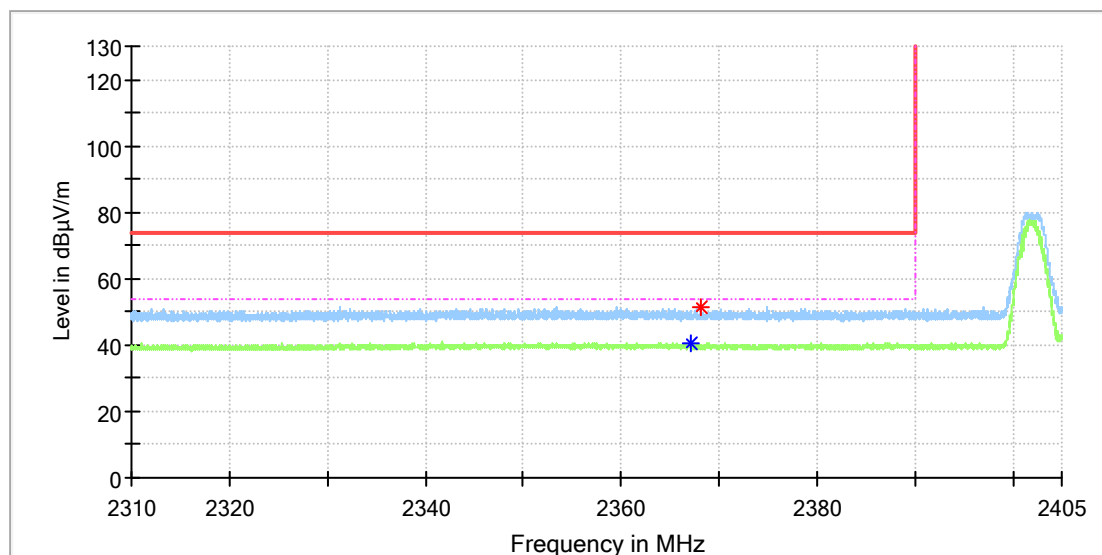
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.731618	---	41.60	54.00	12.40	150.0	V	76.0	9.0
2490.452206	52.39	---	74.00	21.61	150.0	V	335.0	9.0

Bluetooth Low Energy mode, 2 Mbps Low channel

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

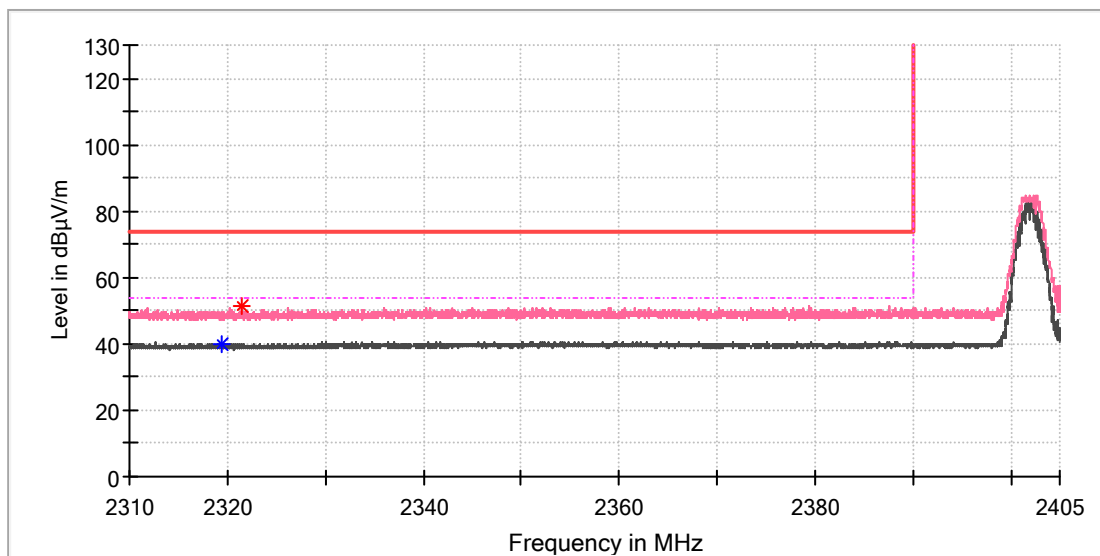


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2367.083824	---	40.49	54.00	13.51	150.0	H	217.0	8.5
2368.229412	51.54	---	74.00	22.46	150.0	H	84.0	8.5

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



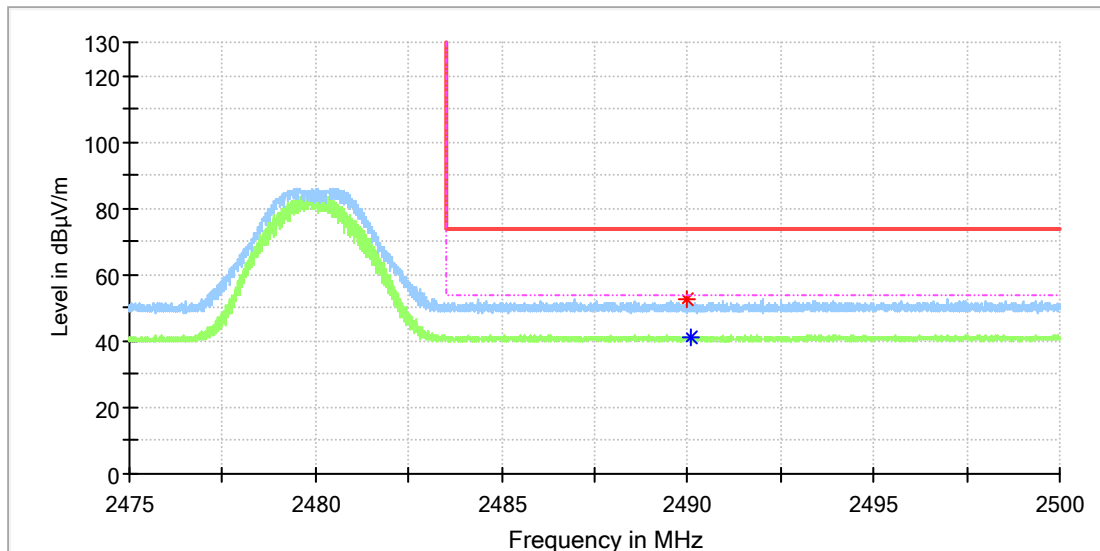
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2319.388235	---	40.20	54.00	13.80	150.0	V	88.0	8.2
2321.427941	51.67	---	74.00	22.33	150.0	V	272.0	8.2

High channel

EUT Information

EUT Name:	IDC7 Bluetooth Module
Model:	ID767
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	DC 5V via USB interface
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

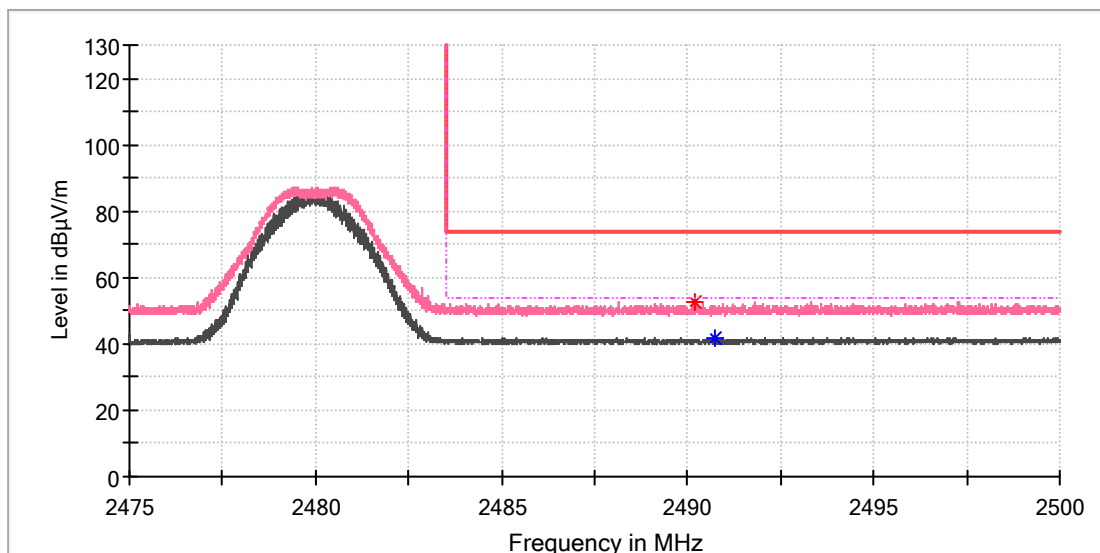


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.974265	52.53	---	74.00	21.47	150.0	H	162.0	9.0
2490.095588	---	41.16	54.00	12.84	150.0	H	176.0	9.0

EUT Information

EUT Name: IDC7 Bluetooth Module
Model: ID767
Test Mode: BLE 2M_High channel
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: DC 5V via USB interface
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.169118	52.70	---	74.00	21.30	150.0	V	241.0	9.0
2490.705882	---	41.81	54.00	12.19	150.0	V	343.0	9.0

**Appendix C: Test Results of Radiated Testing (co-location
 radiated spurious emissions with host)**

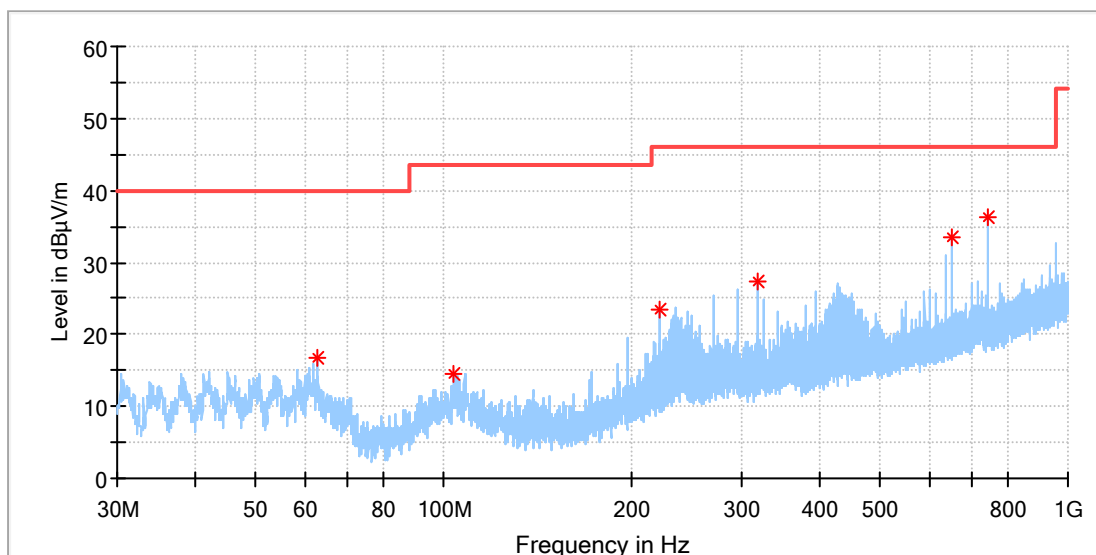
**APPENDIX C: TEST RESULTS OF RADIATED TESTING (CO-LOCATION RADIATED SPURIOUS EMISSIONS
 WITH HOST)..... 1**
APPENDIX C.1: TEST RESULTS OF CO-LOCATED TRANSMITTING IN HOST SA352
APPENDIX C.2: TEST RESULTS OF CO-LOCATED TRANSMITTING IN HOST SA458

Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Results of co-located transmitting in host SA35

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA35
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003864021-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

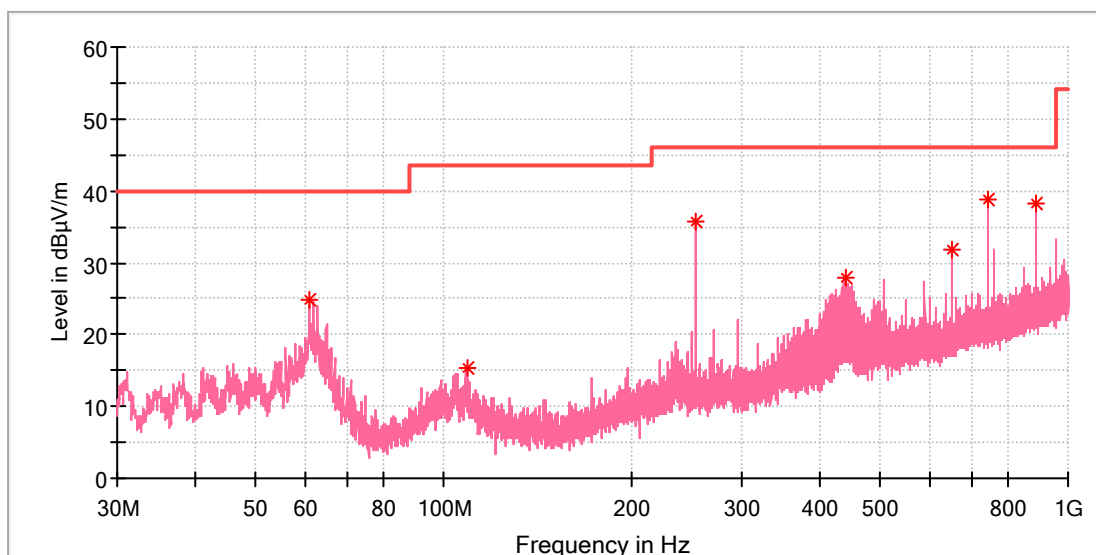


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.905385	16.77	40.00	23.23	100.0	H	235.0	-19.8
104.055769	14.61	43.50	28.89	100.0	H	301.0	-18.9
221.201923	23.43	46.00	22.57	100.0	H	83.0	-18.6
319.507692	27.25	46.00	18.75	100.0	H	243.0	-15.7
650.016539	33.42	46.00	12.58	100.0	H	0.0	-8.8
742.502308	36.14	46.00	9.86	100.0	H	227.0	-7.2

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA35
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003864021-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

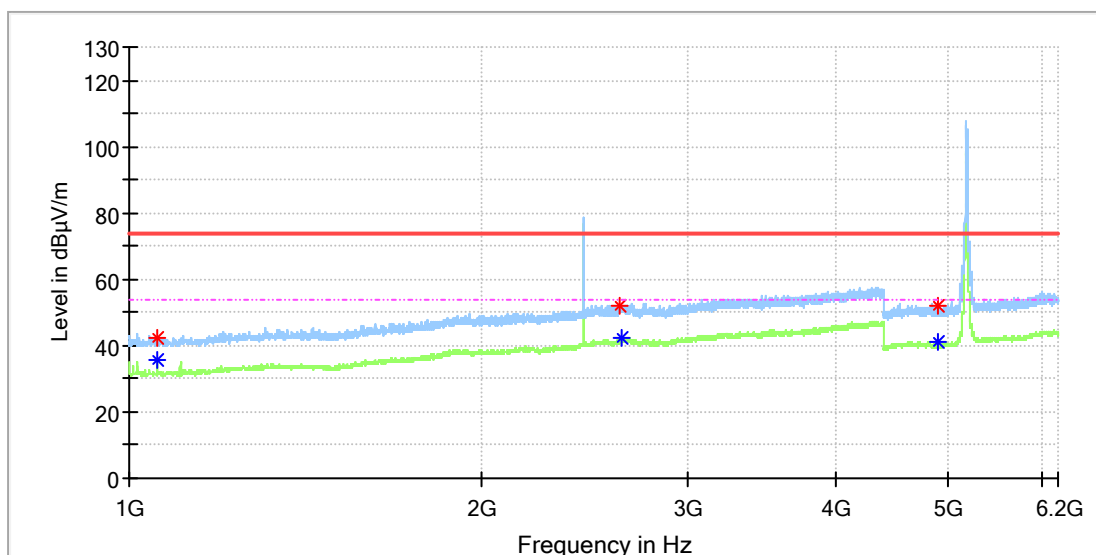


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.928077	24.93	40.00	15.07	100.0	V	341.0	-19.3
108.793846	15.24	43.50	28.26	100.0	V	126.0	-19.1
254.107308	35.62	46.00	10.38	100.0	V	227.0	-17.2
439.601154	27.81	46.00	18.19	100.0	V	218.0	-13.0
650.016539	31.94	46.00	14.06	100.0	V	175.0	-8.8
742.502308	38.71	46.00	7.29	100.0	V	316.0	-7.2
889.345385	38.36	46.00	7.64	100.0	V	244.0	-4.9

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA35
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003864021-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

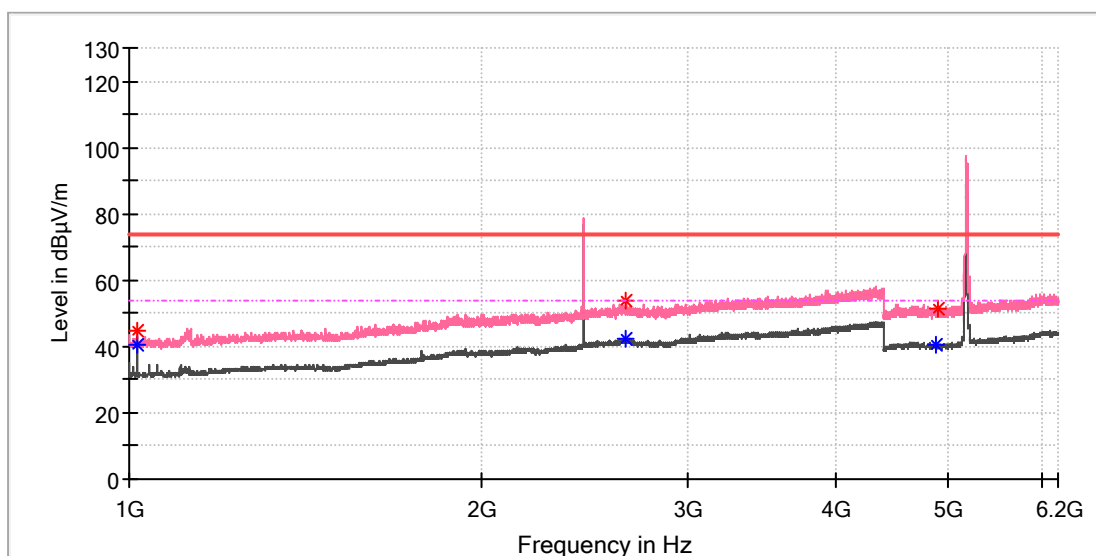


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.500000	---	35.50	54.00	18.50	150.0	H	282.0	0.5
1058.500000	42.22	---	74.00	31.78	150.0	H	353.0	0.5
2625.000000	52.21	---	74.00	21.79	150.0	H	220.0	9.9
2630.500000	---	42.14	54.00	11.86	150.0	H	214.0	9.9
4902.500000	51.71	---	74.00	22.29	150.0	H	164.0	13.3
4906.500000	---	40.86	54.00	13.14	150.0	H	6.0	13.3

EUT Information

EUT Name: Streaming Amplifier
Model: SA35
Test Mode: WIFI 5G+BT
Order No/Sample No: 168497793/A003864021-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

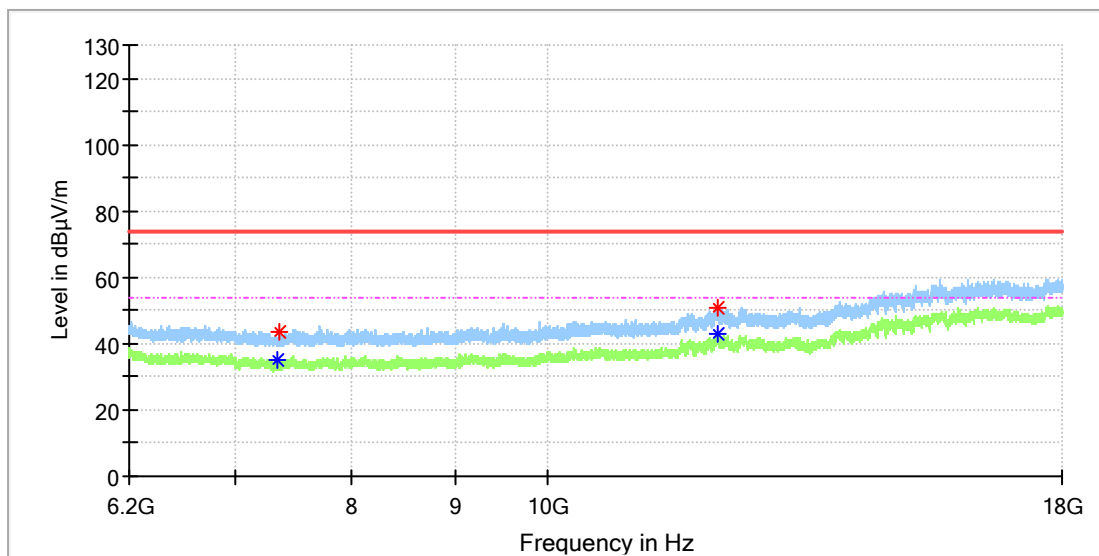


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1016.000000	45.03	---	74.00	28.97	150.0	V	321.0	0.4
1016.000000	---	40.42	54.00	13.58	150.0	V	321.0	0.4
2656.500000	53.79	---	74.00	20.21	150.0	V	291.0	10.2
2656.500000	---	42.42	54.00	11.58	150.0	V	291.0	10.2
4870.500000	---	40.63	54.00	13.37	150.0	V	7.0	13.3
4890.000000	51.48	---	74.00	22.52	150.0	V	98.0	13.3

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA35
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003864021-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

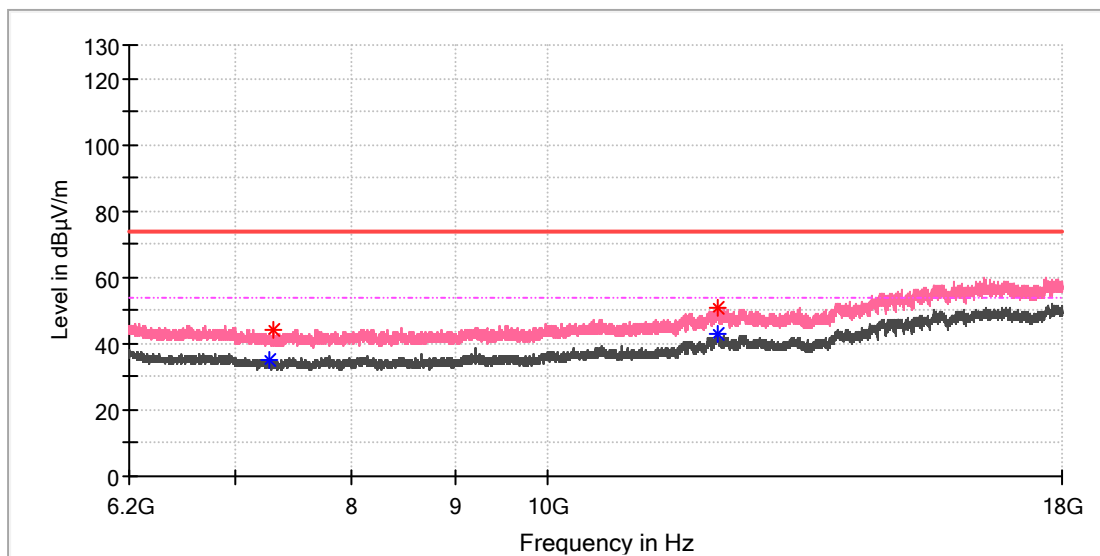


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7336.733333	---	35.05	54.00	18.95	150.0	H	12.0	8.1
7361.808333	43.64	---	74.00	30.36	150.0	H	100.0	8.2
12135.891667	50.51	---	74.00	23.49	150.0	H	78.0	16.4
12143.266667	---	42.83	54.00	11.17	150.0	H	12.0	16.6

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA35
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003864021-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



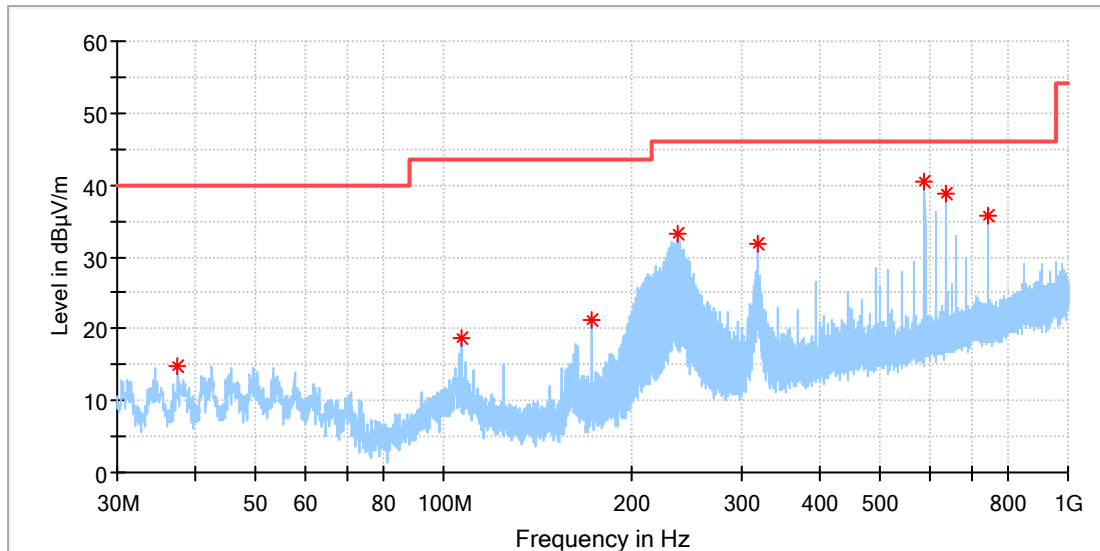
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7271.833333	---	35.21	54.00	18.79	150.0	V	61.0	8.5
7312.641667	44.06	---	74.00	29.94	150.0	V	249.0	8.2
12138.350000	---	42.73	54.00	11.27	150.0	V	79.0	16.4
12152.608333	50.94	---	74.00	23.06	150.0	V	319.0	16.6

Appendix C.2: Test Results of co-located transmitting in host SA45

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA45
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

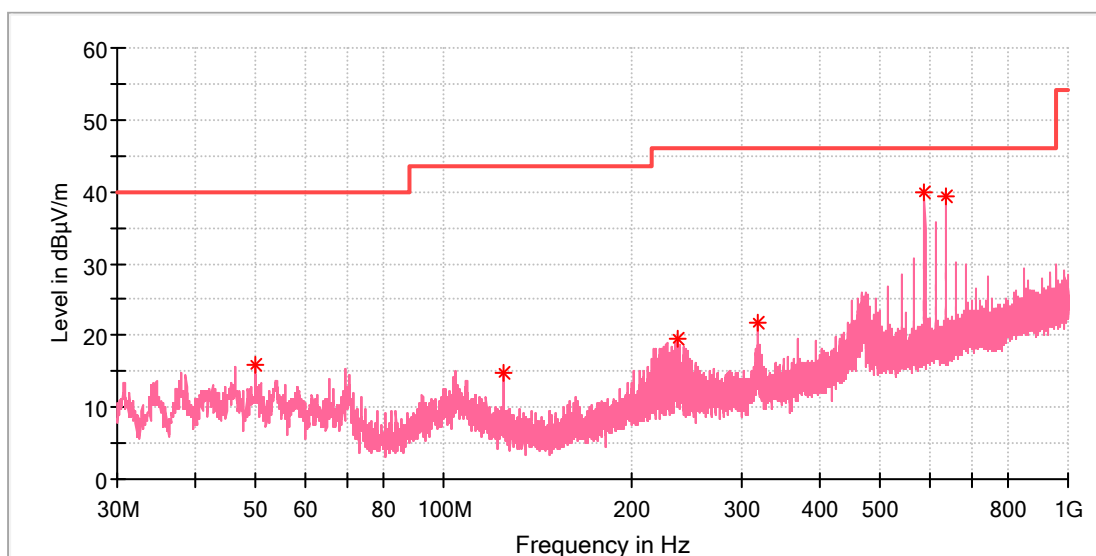


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.536154	14.81	40.00	25.19	100.0	H	351.0	-21.0
106.965769	18.76	43.50	24.74	100.0	H	132.0	-19.0
172.030385	21.24	43.50	22.26	100.0	H	110.0	-21.2
237.542692	33.22	46.00	12.78	100.0	H	101.0	-17.8
319.507692	31.93	46.00	14.07	100.0	H	157.0	-15.7
589.839231	40.36	46.00	5.64	100.0	H	21.0	-9.9
639.010769	38.84	46.00	7.16	100.0	H	30.0	-9.0
742.502308	35.62	46.00	10.38	100.0	H	53.0	-7.2

EUT Information

EUT Name: Streaming Amplifier
Model: SA45
Test Mode: WIFI 5G+BT
Order No/Sample No: 168497793/A003855108-001
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

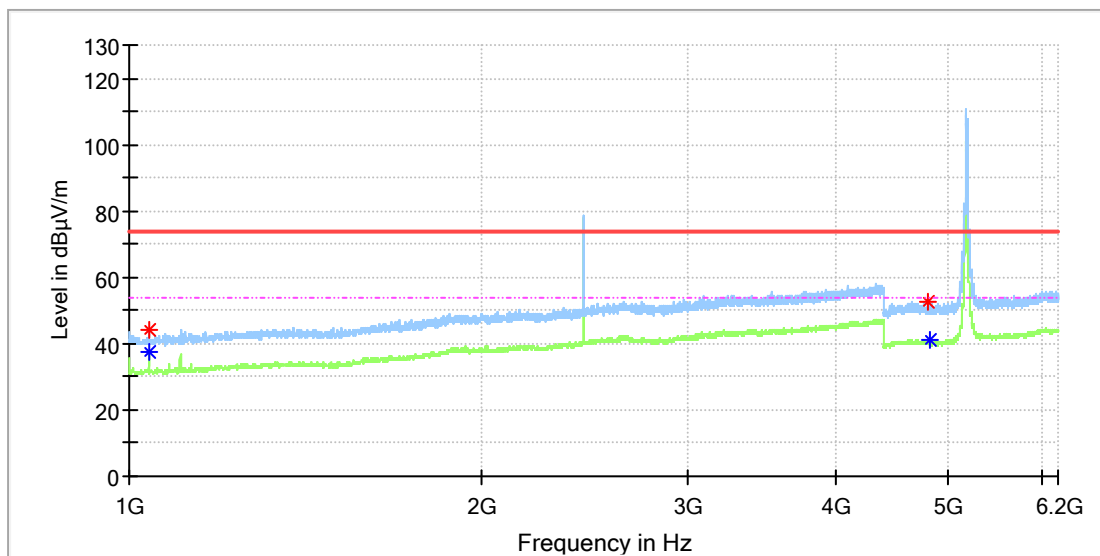


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.847692	15.86	40.00	24.14	100.0	V	192.0	-18.4
124.985385	14.81	43.50	28.69	100.0	V	128.0	-21.4
236.572692	19.45	46.00	26.55	100.0	V	345.0	-17.9
319.470385	21.79	46.00	24.21	100.0	V	96.0	-15.7
589.839231	39.95	46.00	6.05	100.0	V	215.0	-9.9
639.010769	39.28	46.00	6.72	100.0	V	175.0	-9.0

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA45
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

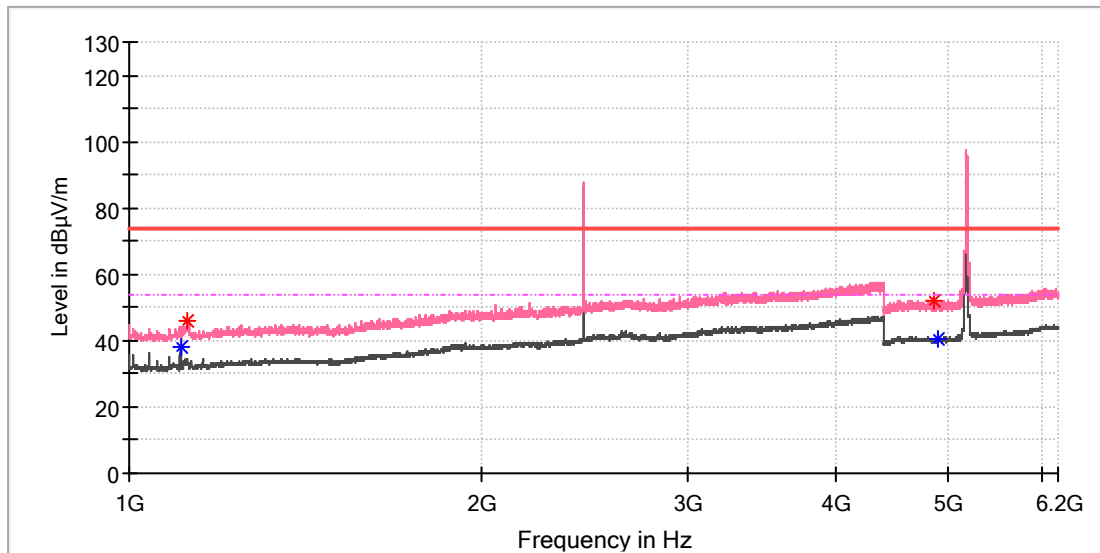


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1039.000000	---	37.27	54.00	16.73	150.0	H	203.0	0.5
1039.500000	43.91	---	74.00	30.09	150.0	H	358.0	0.5
4808.000000	52.62	---	74.00	21.38	150.0	H	195.0	13.3
4823.000000	---	40.84	54.00	13.16	150.0	H	1.0	13.3

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA45
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

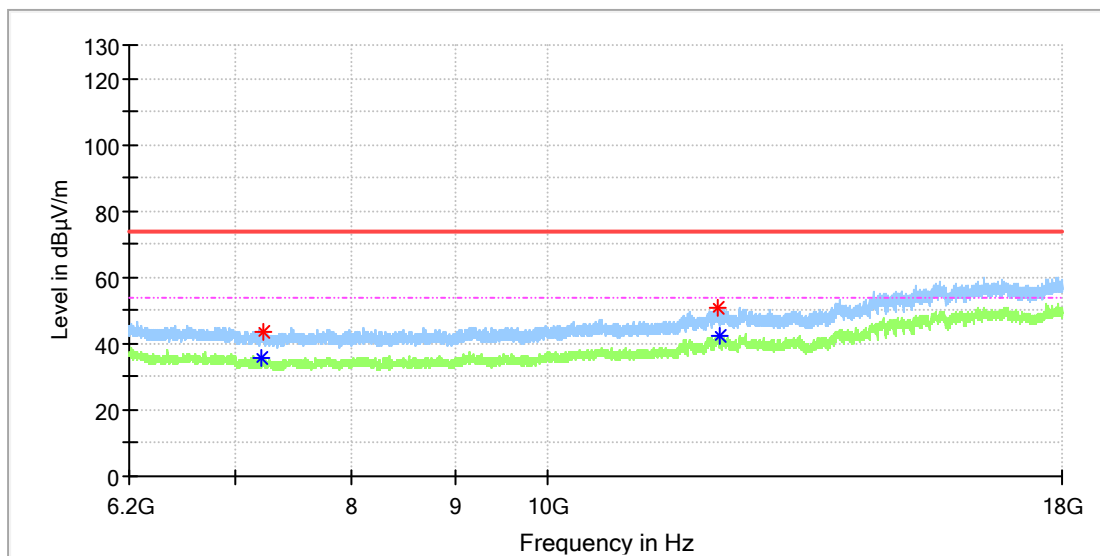


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.500000	---	37.94	54.00	16.06	150.0	V	124.0	0.6
1119.500000	45.73	---	74.00	28.27	150.0	V	292.0	0.8
4851.500000	51.92	---	74.00	22.08	150.0	V	12.0	13.3
4899.500000	---	40.79	54.00	13.21	150.0	V	169.0	13.3

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA45
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

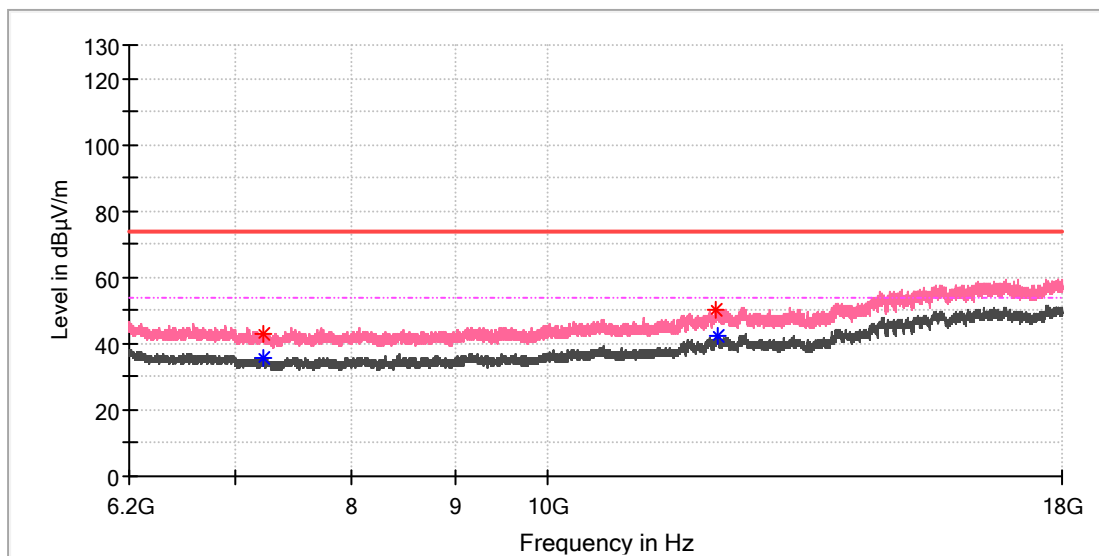


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7215.291667	---	35.50	54.00	18.50	150.0	H	344.0	8.7
7233.975000	43.83	---	74.00	30.17	150.0	H	354.0	8.6
12150.641667	50.92	---	74.00	23.08	150.0	H	5.0	16.7
12160.475000	---	42.25	54.00	11.75	150.0	H	251.0	16.2

EUT Information

EUT Name:	Streaming Amplifier
Model:	SA45
Test Mode:	WIFI 5G+BT
Order No/Sample No:	168497793/A003855108-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.733333	42.92	---	74.00	31.08	150.0	V	3.0	8.7
7231.025000	---	35.97	54.00	18.03	150.0	V	133.0	8.6
12122.616667	50.31	---	74.00	23.70	150.0	V	292.0	16.0
12144.741667	---	42.46	54.00	11.54	150.0	V	84.0	16.6