



Prüfbericht-Nr.: <i>Test report no.:</i>	CN226Z2Y 002	Auftrags-Nr.: <i>Order no.:</i>	168347038	Seite 1 von 21 <i>Page 1 of 21</i>	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-12-21		
Auftraggeber: <i>Client:</i>	SZ DJI Osmo Technology Co., Ltd. 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, P. R. China				
Prüfgegenstand: <i>Test item:</i>	DJI RS 3				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	P11C				
Auftrags-Inhalt: <i>Order content:</i>	Test Report				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 March 2019				
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021-12-25	Please refer to Photo Document			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003187904 003 A003189904-005				
Prüfzeitraum: <i>Testing period:</i>	2021-12-25 to 2022-01-06				
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>	X  Hardy Suo		genehmigt von: <i>authorized by:</i>	X  Lin Lin	
Datum: <i>Date:</i>	2022-01-18		Ausstellungsdatum: <i>Issue date:</i>	2022-01-18	
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2ANDR-P11C2022 IC: 23060-P11C2022 HVIN: P11C Applicant & Manufacturer: SZ DJI Osmo Technology Co., Ltd. , 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, P. R. China Factory: SZ DJI Ronin Technology Co., Ltd. , Floor 4-5, Block 13, Area 7, Baiwangxin Industrial Park, Songbai Road, Nanshan District, Shenzhen City, Guangdong Province, China				
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:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor 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 a. m. 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>					

V05

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: *Pass*

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: *Pass*

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: *Pass*

5.1.4 6DB BANDWIDTH

RESULT: *Pass*

5.1.5 99% BANDWIDTH

RESULT: *Pass*

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

RESULT: *Pass*

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: *Pass*

5.1.8 CONDUCTED EMISSION ON AC MAINS

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.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Registration No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated until (DD.MM.YYYY)
9039436	EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241 175	28.09.2022
9039437	MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250 137	28.09.2022
9039438	EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250 141	28.09.2022
9039439	DC Power Supply	Keysight	E3642A	MY61276 100	28.09.2022
9039440	Wireless Connectivity Tester	R&S	CMW270	102505	28.09.2022
9039441	Power Control Unit	Tonscend	JS0806-4ADC	N/A	28.09.2022
9039442	Automation Control Unit	Tonscend	JS0806-2	21C80603 96	28.09.2022
9039443	Test Software	Tonscend	JS1120-3	N/A	N/A
9039444	Control PC	Lenovo	TianYi510S-071MB	YLX23JM F	N/A
Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated until (DD.MM.YYYY)
G1826021	EMI Test Receiver	R&S	ESR 7	102021	10.08.2022
G1826023	Signal Analyzer	R&S	FSV 40	101439	09.08.2022
G1826024	System Controller Interface	R&S	SCI-100	S1001003 8	N/A
G1826025	Filterbank	R&S	Wlan	100759	09.08.2022
G1826026	OSP	R&S	OSP 120	102040	N/A
G1826028	Pre-amplifier	R&S	SCU08F1	08320031	09.08.2022
G1826029	Amplifier	R&S	SCU-18F	180070	09.08.2022
G1826030	Amplifier	R&S	SCU40A	100475	09.08.2022
G1826031	Trilog Broadband	Schwarzbeck	VULB 9162	193	08.08.2022

	Antenna (30 MHz - 7 GHz)				
G1826032	Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	08.08.2022
G1826033	Wideband Ridged Horn Antenna (18- 40 GHz)	Steatite	QMS-00880	19067	08.08.2022
G1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	13.09.2022
G1826036	Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
G1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
G1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC1715 1-SAC	22.06.2024

Conducted Emission

Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR3	102428	2022-08-10
Artificial Mains Network	R&S	ENV216	102333	2022-08-10
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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.

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Temperature	± 1 °C
Humidity	± 5 %

Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. 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

P11C is a professional single-handed 3-axis gimbal specifically designed for DSLR and mirrorless cameras, it supports Bluetooth BLE wireless technology.

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	DJI RS 3
Type Designation	P11C
Operating Voltage	Type-C Port by AC/DC adapter or Li-ion Battery operated
Extreme Temperature Range	-20 °C ~ +45 °C
Radiofrequency operating mode	Bluetooth BLE: operating within 2400-2483.5MHz, 1Mbps&2Mbps
Technical Specification of Bluetooth	
Operating Frequency	2402-2480MHz
Type of Modulation	GFSK
Data Rate	1Mbps, 2Mbps
Channel Number	40 channels for Bluetooth BLE
Channel Separation	1MHz and 2MHz
Antenna Type	Integral Antenna
Antenna Number	1
Antenna Gain	2 dBi
The type of wideband data transmission equipment	Non-FHSS

Table 3: RF Channel and Frequency of BLE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, , Bluetooth BLE transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal operation with charging by Type-C (AC/DC adapter)
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- User Manual
- Operation Description

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 tests were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 4: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A
Power Adapter	DJI	PD-65CN	N/A	Input: AC 100-240V, 50/60Hz, 2.0A Output: DC 5V 5A, 9V 5A, 12V 5A, 15V 4.3A
Ronin RavenEye Image Transmission System	DJI	WV-001	N/A	NA
Ronin Focus Motor	DJI	RSCFM	N/A	NA
Camera	SONY	6400A	N/A	NA

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 1GHz)

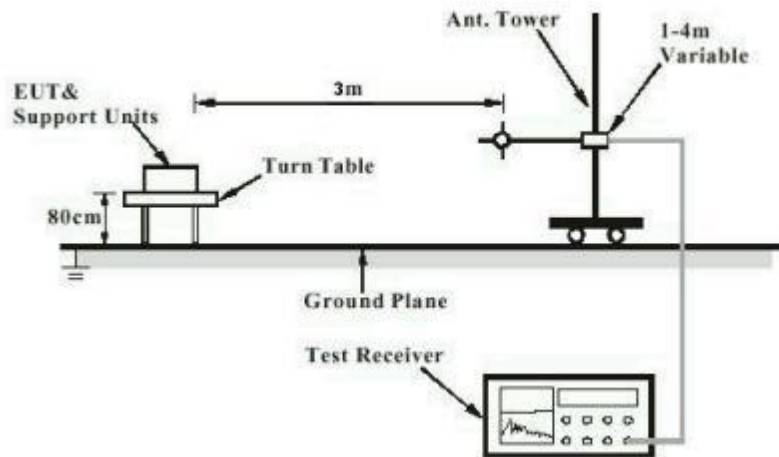


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

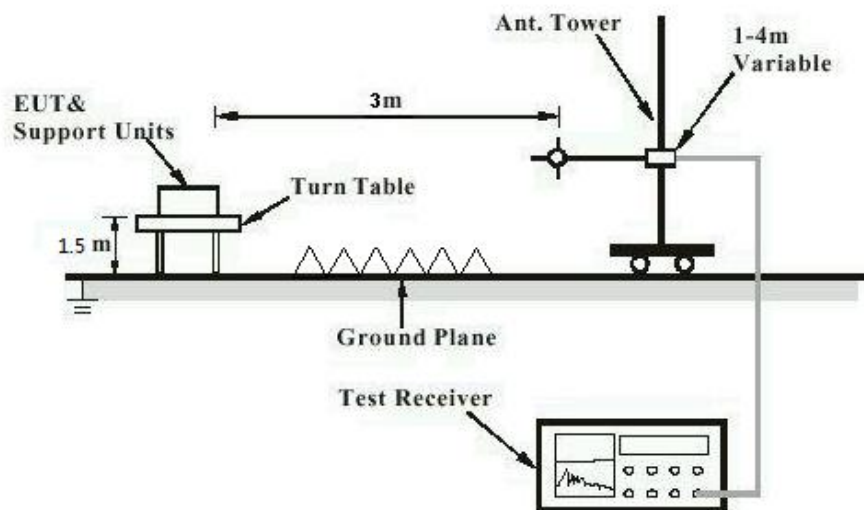


Diagram of Measurement Configuration for Mains Conduction Measurement

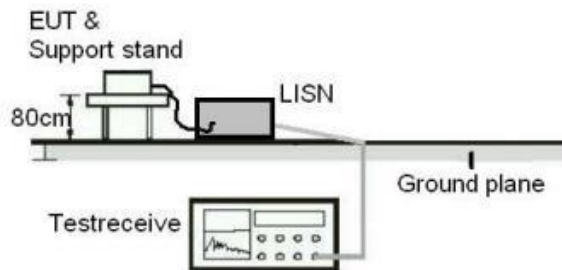
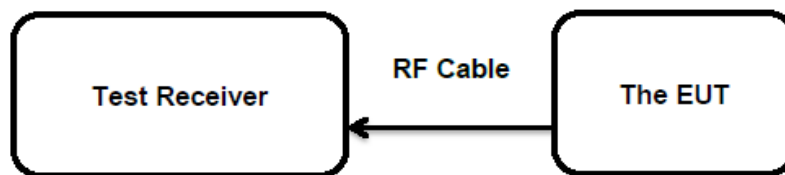


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has an Integral antenna, the directional gain of antenna is 2 dBi, permanent attachment and no consideration of replacement.

Therefore, the EUT is considered sufficient to comply with the provision.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
 : RSS-247 Clause 5.4(d)
 Basic standard : ANSI C63.10: 2013
 Limits : 1.0 Watts
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-12-25 to 2022-01-06
 Input voltage : Fully charged battery
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 26.8 °C
 Relative humidity : 56 %
 Atmospheric pressure : 101 kPa

Table 5: Test Result of Maximum Peak Conducted Output Power, BLE

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
GFSK (BLE)	1 Mbps	2402	3.91	0.0025	< 1.0
		2440	3.58	0.0023	
		2480	4.29	0.0027	
Maximum Measured Value			4.29	0.0027	
Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
GFSK (BLE)	2 Mbps	2402	3.97	0.0025	< 1.0
		2440	3.63	0.0023	
		2480	4.35	0.0027	
Maximum Measured Value			4.35	0.0027	
Max. e.i.r.p.=4.35dBm+2dBi=6.35dBm, which is less than 36dBm=4W.					

Note:

- 1) The cable loss is taken into account in results.
- 2) e.i.r.p.=P_(Peak power)+ G, which is far below the 4 W.

5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(e) RSS-247 Clause 5.2(b)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2021-12-25 to 2022-01-06
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.8 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 5.2(a)
Basic standard	: ANSI C63.10: 2013
Limits	: > 500 KHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2021-12-25 to 2022-01-06
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.8 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

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5.1.5 99% Bandwidth

RESULT:**Pass****Test Specification**

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-12-25 to 2022-01-06
Input voltage : Fully charged battery
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 26.8 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2021-12-25 to 2022-01-06
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.8 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2021-12-25 to 2022-01-06
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing 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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5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.207(a)
RSS-Gen Clause 8.8

Basic standard : ANSI C63.10: 2013

Frequency range : 0.15 – 30MHz

Classification : Class B

Limits : FCC Part 15.207(a)
RSS-Gen Table 4

Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-12-25 to 2022-01-06

Input voltage : AC 120V, 60Hz

Operation mode : B

Earthing : Not connected

Ambient temperature : 22 °C

Relative humidity : 64 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

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

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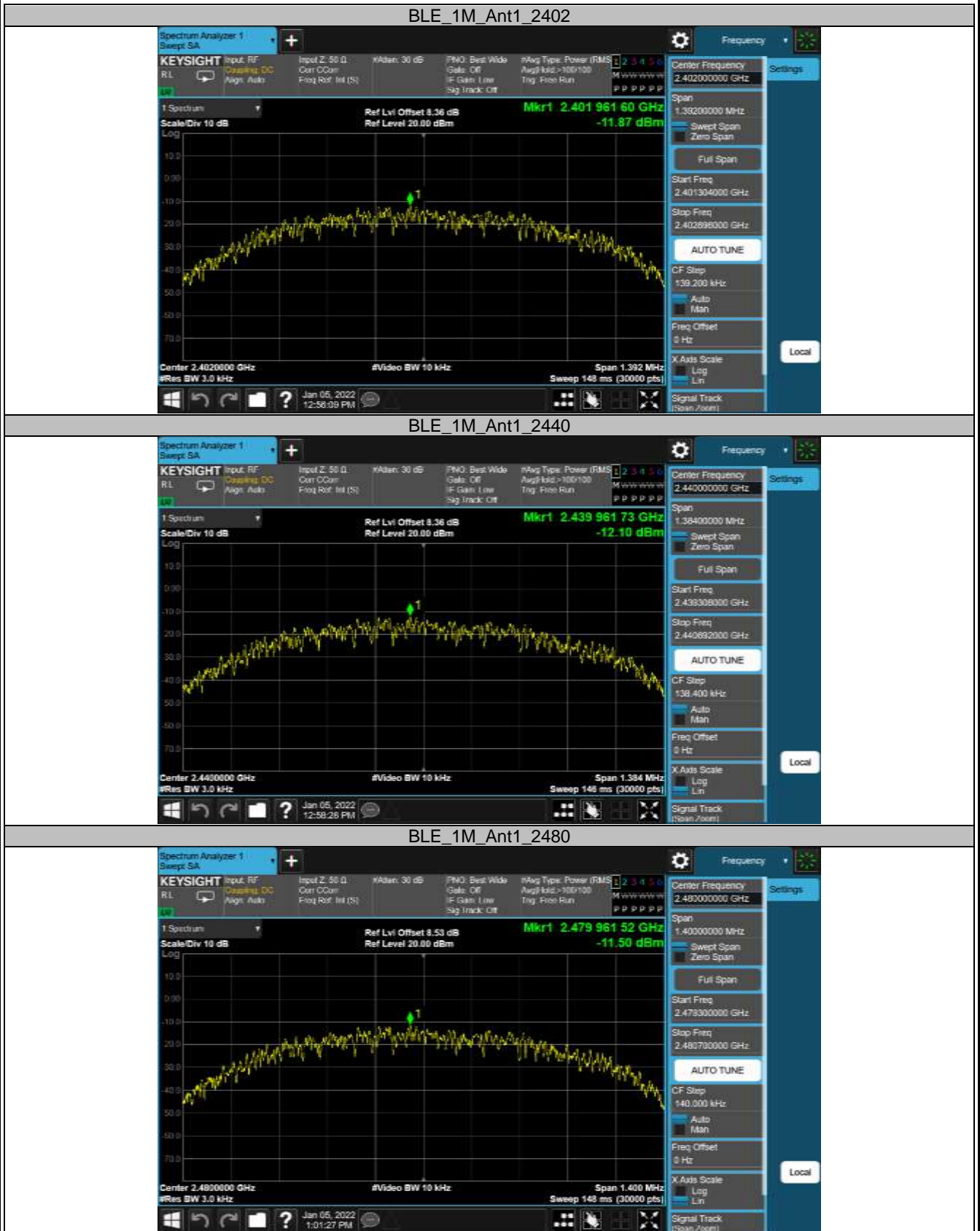
Appendix B.1: Test Results of Conducted Power Spectral Density

GFSK(BLE) Mode, 1Mbps

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.87	≤8	PASS
		2440	-12.1	≤8	PASS
		2480	-11.51	≤8	PASS

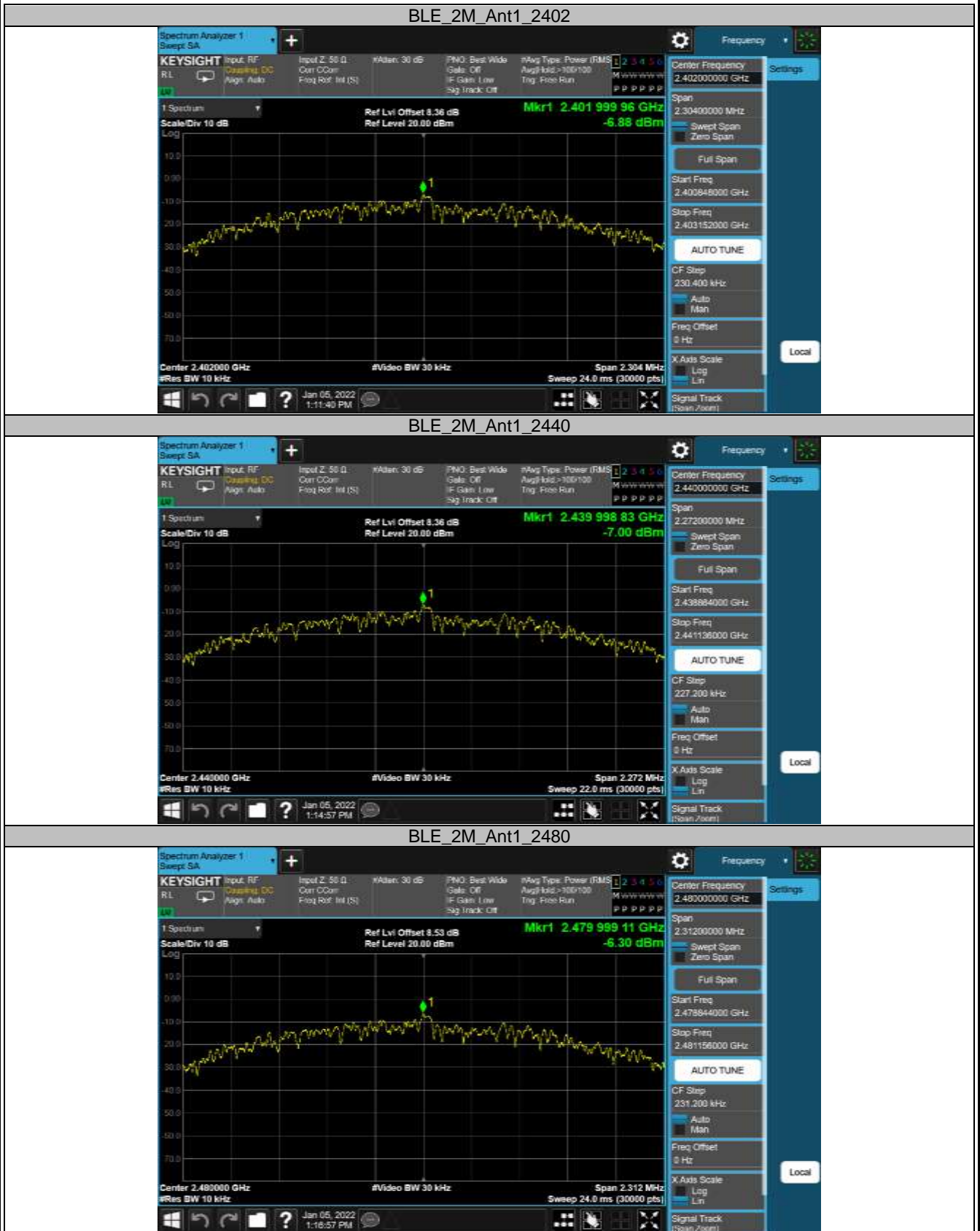
Test Graphs



GFSK(BLE) Mode, 2Mbps
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_2M	Ant1	2402	-6.88	≤8	PASS
		2440	-7	≤8	PASS
		2480	-6.3	≤8	PASS

Test Graphs



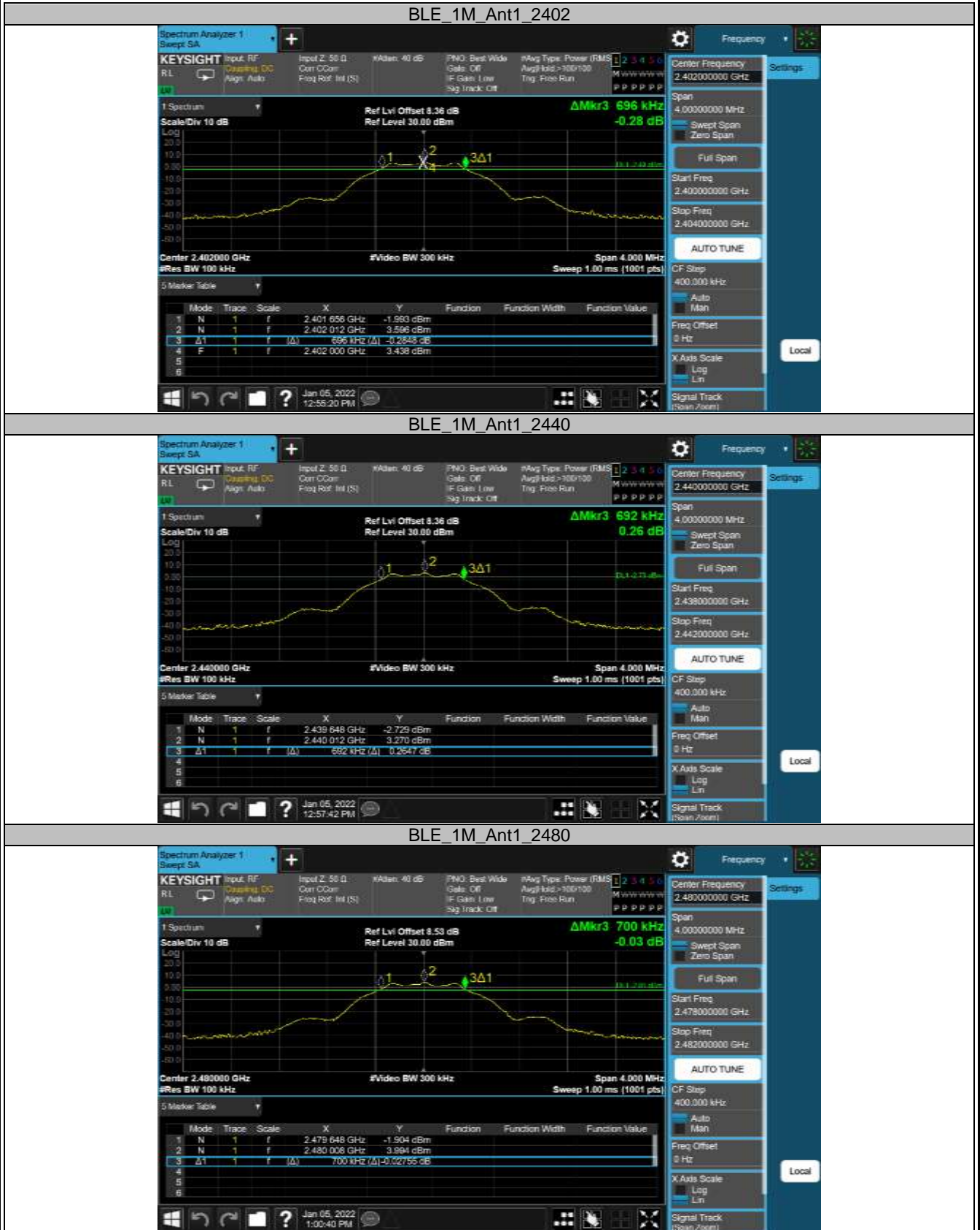
Appendix B.2: Test Results of 6dB Bandwidth

GFSK(BLE) Mode, 1Mbps

1.1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.656	2402.352	0.5	PASS
		2440	0.692	2439.648	2440.340	0.5	PASS
		2480	0.700	2479.648	2480.348	0.5	PASS

Test Graphs



GFSK(BLE) Mode, 2Mbps

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	1.152	2401.432	2402.584	0.5	PASS
		2440	1.136	2439.440	2440.576	0.5	PASS
		2480	1.156	2479.428	2480.584	0.5	PASS

Test Graphs

BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix B.3: Test Results of 99% Bandwidth

GFSK(BLE) Mode, 1Mbps

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0575	2401.481	2402.538	---	PASS
		2440	1.0521	2439.481	2440.533	---	PASS
		2480	1.0537	2479.485	2480.539	---	PASS

Test Graphs



GFSK(BLE) Mode, 2Mbps

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	2.0466	2400.998	2403.045	---	PASS
		2440	2.0484	2438.999	2441.048	---	PASS
		2480	2.0597	2478.992	2481.051	---	PASS

Test Graphs

BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix B.4: Test Results of Conducted Spurious Emissions

GFSK(BLE) Mode, 1Mbps

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.63	3.63	---	PASS
			30~1000	3.63	-62.21	≤-16.37	PASS
			1000~26500	3.63	-53.3	≤-16.37	PASS
		2440	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-61.13	≤-16.68	PASS
			1000~26500	3.32	-52.15	≤-16.68	PASS
		2480	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-61.71	≤-15.98	PASS
			1000~26500	4.02	-52.28	≤-15.98	PASS

Test Graphs



BLE_1M_Ant1_2440_0-Reference



BLE_1M_Ant1_2440_30-1000



BLE_1M_Ant1_2440_1000-26500



BLE_1M_Ant1_2480_0-Reference



BLE_1M_Ant1_2480_30-1000



BLE_1M_Ant1_2480_1000-26500



Band Edge

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.66	-47.6	≤-16.34	PASS
		High	2480	4.10	-48.92	≤-15.9	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



GFSK(BLE) Mode, 2Mbps

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	2402	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-62.12	≤-16.3	PASS
			1000~26500	3.70	-52.72	≤-16.3	PASS
		2440	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-62.02	≤-16.59	PASS
			1000~26500	3.41	-52.75	≤-16.59	PASS
		2480	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-61.75	≤-15.9	PASS
			1000~26500	4.10	-52.87	≤-15.9	PASS

Test Graphs

BLE_2M_Ant1_2402_0-Reference



BLE_2M_Ant1_2402_30-1000



BLE_2M_Ant1_2402_1000-26500



BLE_2M_Ant1_2440_0-Reference



BLE_2M_Ant1_2440_30-1000



BLE_2M_Ant1_2440_1000-26500



BLE_2M_Ant1_2480_0-Reference



BLE_2M_Ant1_2480_30-1000



BLE_2M_Ant1_2480_1000-26500



Band Edge

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	Low	2402	3.76	-28.85	≤-16.24	PASS
		High	2480	4.18	-49.43	≤-15.82	PASS

Test Graphs

BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



Appendix B.5: Test Results of Radiated Spurious Emissions

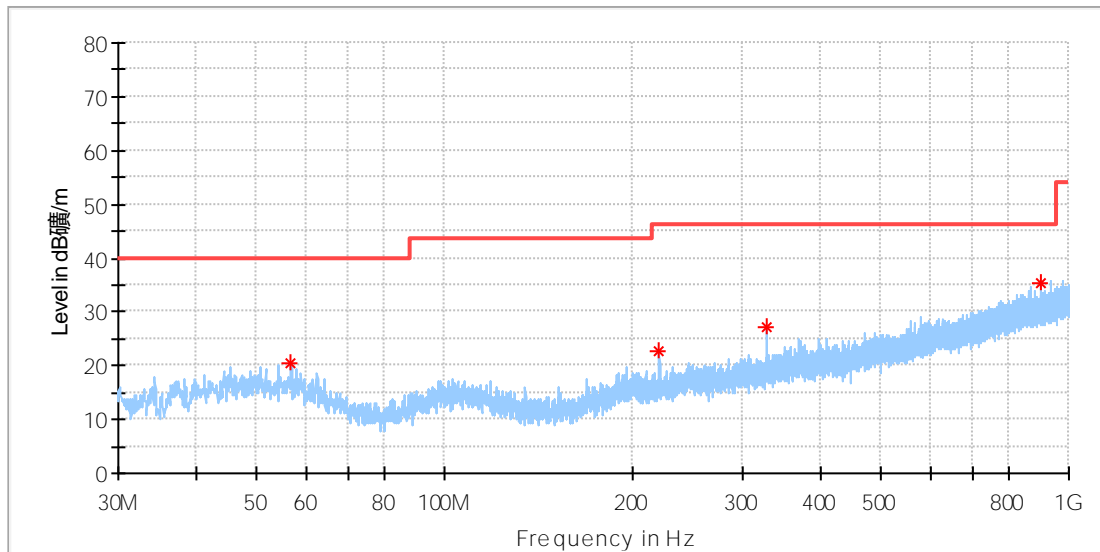
Note: This testing was carried out on add data rate, but only the worst case was presented in this report.

30 MHz to 1GHz

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
56.772000	20.56	40.00	19.44	100.0	H	36.0	-18.6
220.896000	22.88	46.00	23.12	100.0	H	46.0	-18.5
327.741500	27.26	46.00	18.74	100.0	H	267.0	-15.6
903.388000	35.41	46.00	10.59	100.0	H	236.0	-5.0

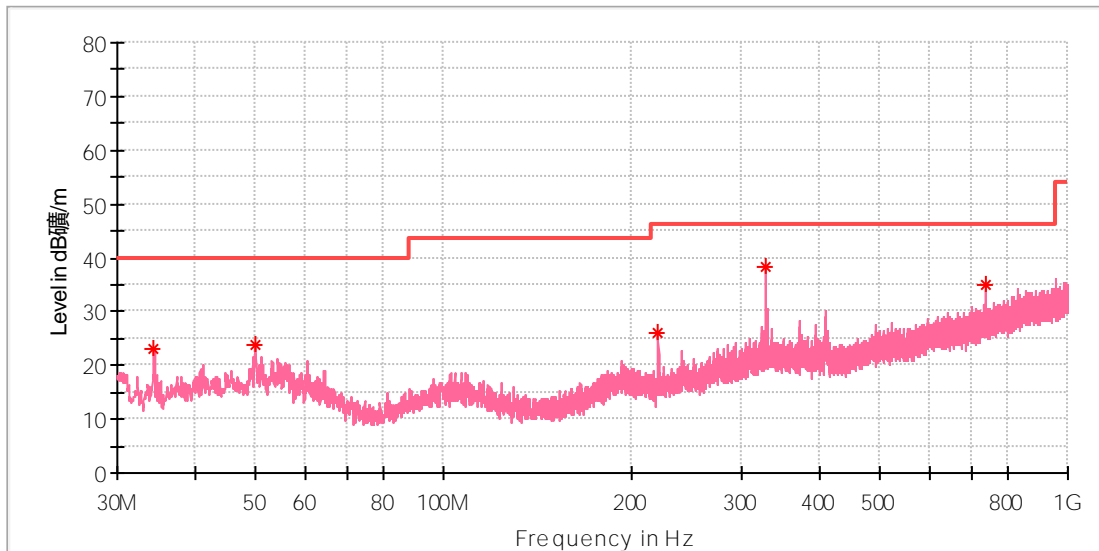
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
34.365000	23.09	40.00	16.91	100.0	V	115.0	-22.2
50.030500	23.95	40.00	16.05	100.0	V	101.0	-18.3
220.896000	26.21	46.00	19.79	100.0	V	321.0	-18.5
327.741500	38.51	46.00	7.49	100.0	V	210.0	-15.6
737.566500	35.16	46.00	10.84	100.0	V	0.0	-7.4

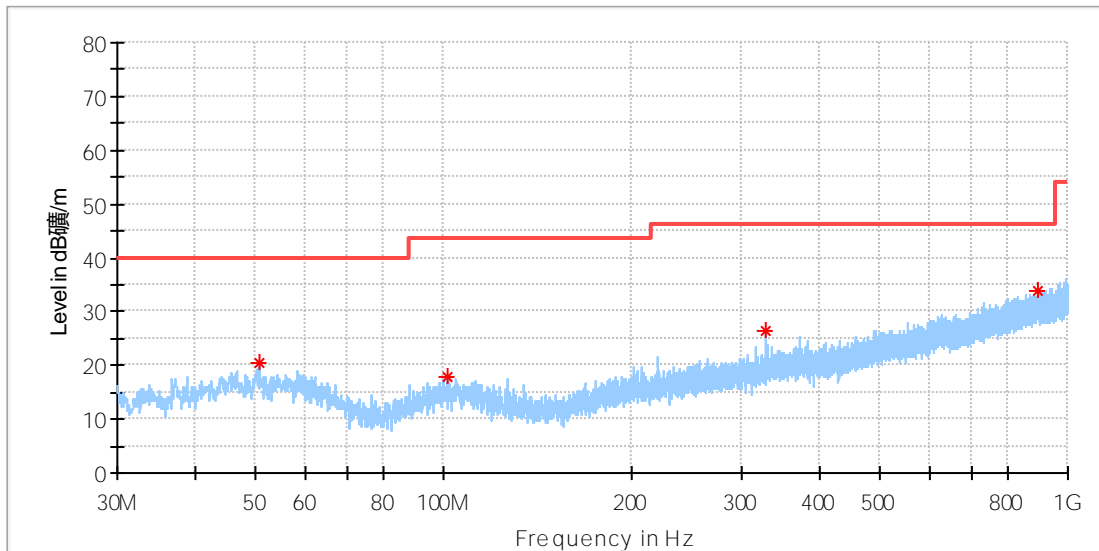
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
50.709500	20.50	40.00	19.50	100.0	H	146.0	-18.3
101.780000	17.90	43.50	25.60	100.0	H	154.0	-18.9
327.741500	26.35	46.00	19.65	100.0	H	70.0	-15.6
897.519500	33.98	46.00	12.02	100.0	H	355.0	-5.0

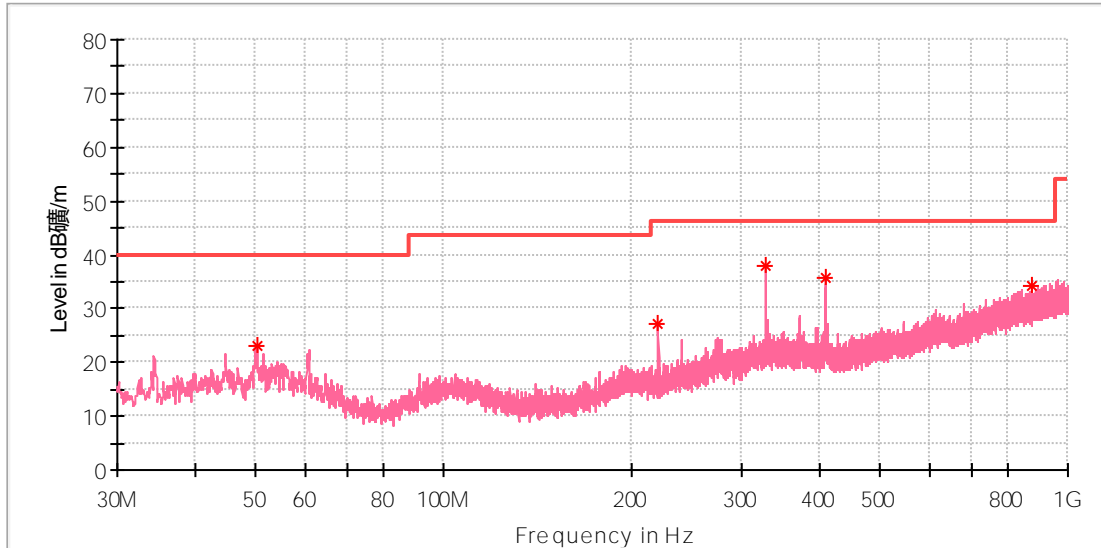
Final_Result

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

Test Report

EUT Information

EUT Name: DJI RS 3
 Model: P11C
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168347038/A003189904-005
 Test Voltage:: Battery
 Remark: Temp 23 Humi:56%
 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)
50.321500	23.02	40.00	16.98	100.0	V	0.0	-18.3
220.896000	27.08	46.00	18.92	100.0	V	10.0	-18.5
327.741500	38.02	46.00	7.98	100.0	V	293.0	-15.6
409.658000	35.78	46.00	10.22	100.0	V	224.0	-13.5
875.646000	34.11	46.00	11.89	100.0	V	242.0	-5.2

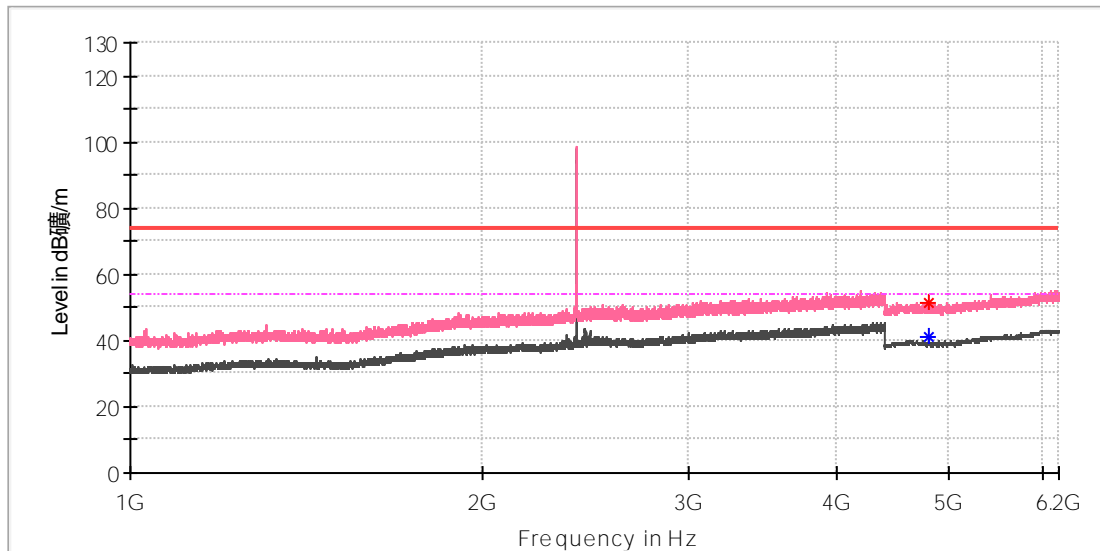
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
4797.500000	51.44	---	74.00	22.56	100.0	V	97.0	11.8
4804.000000	---	40.88	54.00	13.12	100.0	V	210.0	11.8

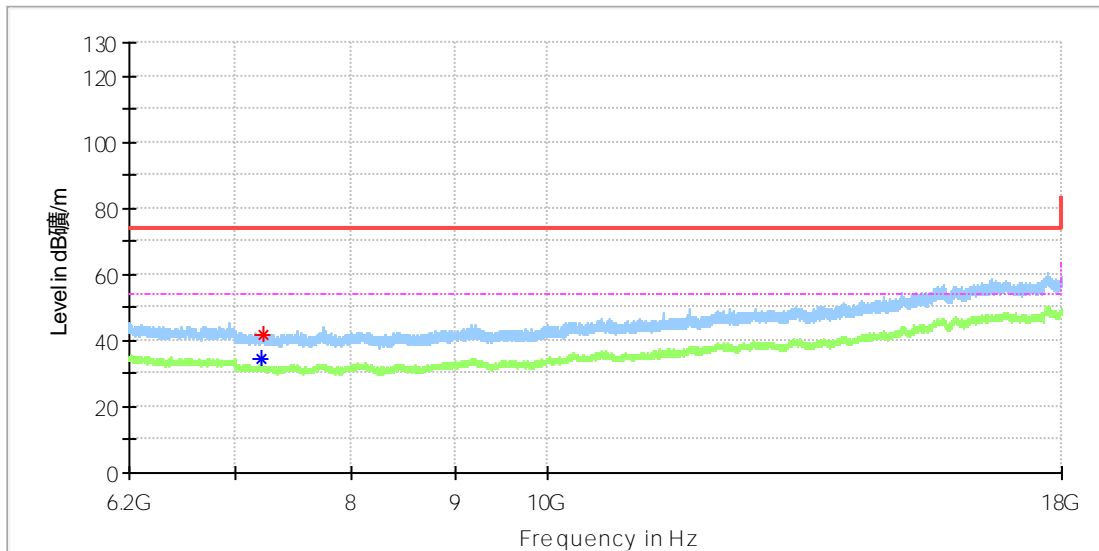
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7204.966667	---	34.47	54.00	19.53	100.0	H	189.0	8.8
7220.700000	41.76	---	74.00	32.24	100.0	H	174.0	8.7

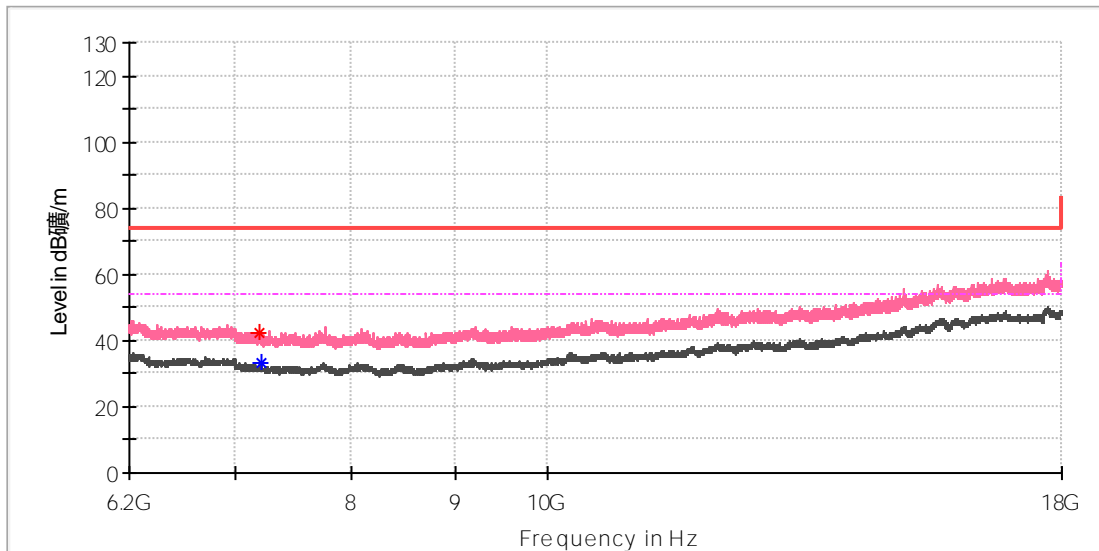
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7200.541667	42.58	---	74.00	31.42	100.0	V	326.0	8.8
7205.950000	---	33.14	54.00	20.86	100.0	V	184.0	8.8

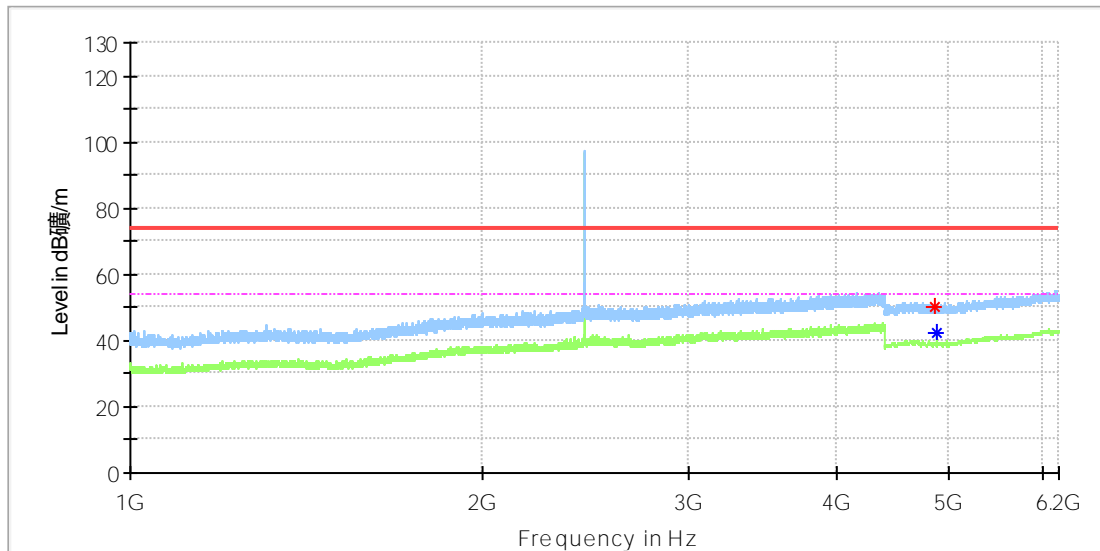
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
4864.000000	50.47	---	74.00	23.53	100.0	H	290.0	11.8
4880.000000	---	42.20	54.00	11.80	100.0	H	208.0	11.8

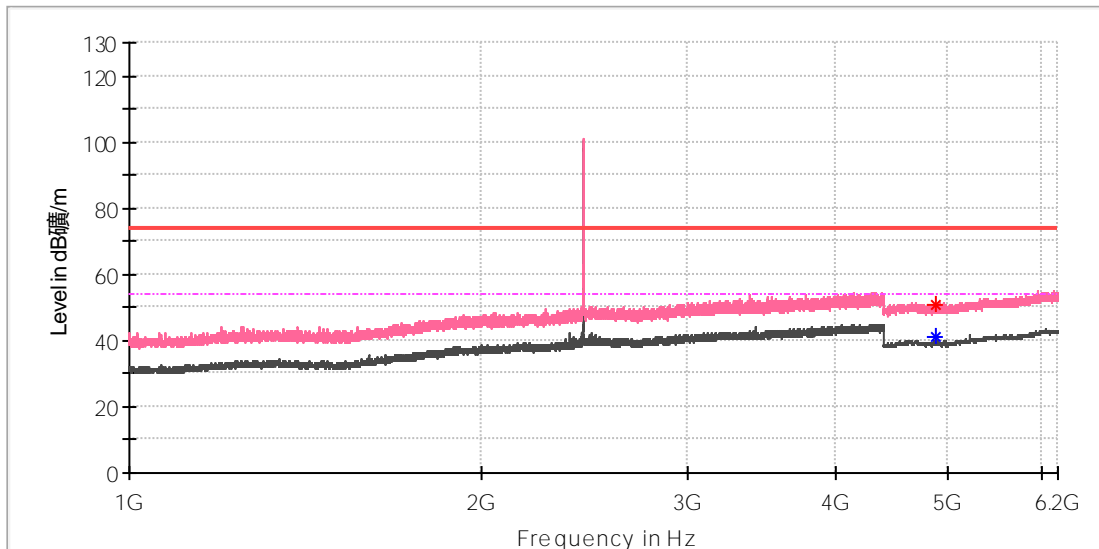
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
4873.000000	50.73	---	74.00	23.27	100.0	V	172.0	11.8
4880.000000	---	40.98	54.00	13.02	100.0	V	220.0	11.8

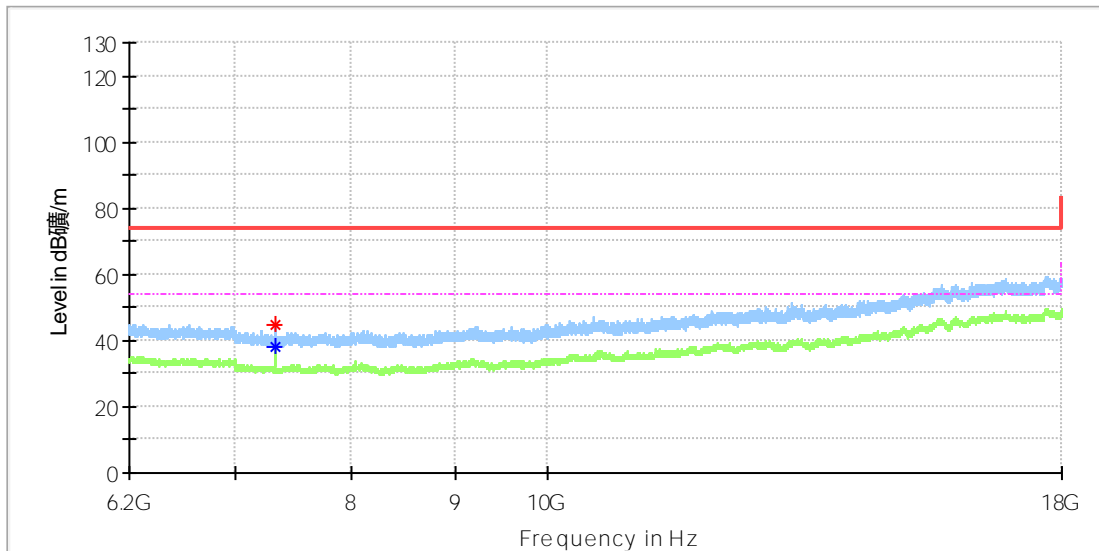
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7319.033333	---	37.86	54.00	16.14	100.0	H	179.0	8.2
7319.525000	44.68	---	74.00	29.32	100.0	H	179.0	8.2

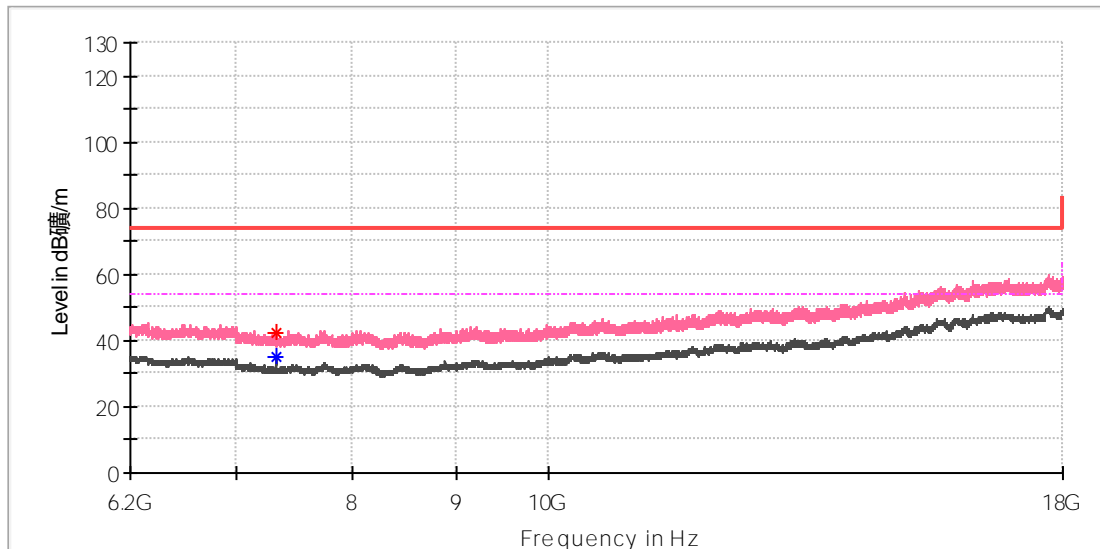
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7319.033333	42.49	---	74.00	31.51	100.0	V	14.0	8.2
7320.508333	---	35.21	54.00	18.79	100.0	V	158.0	8.2

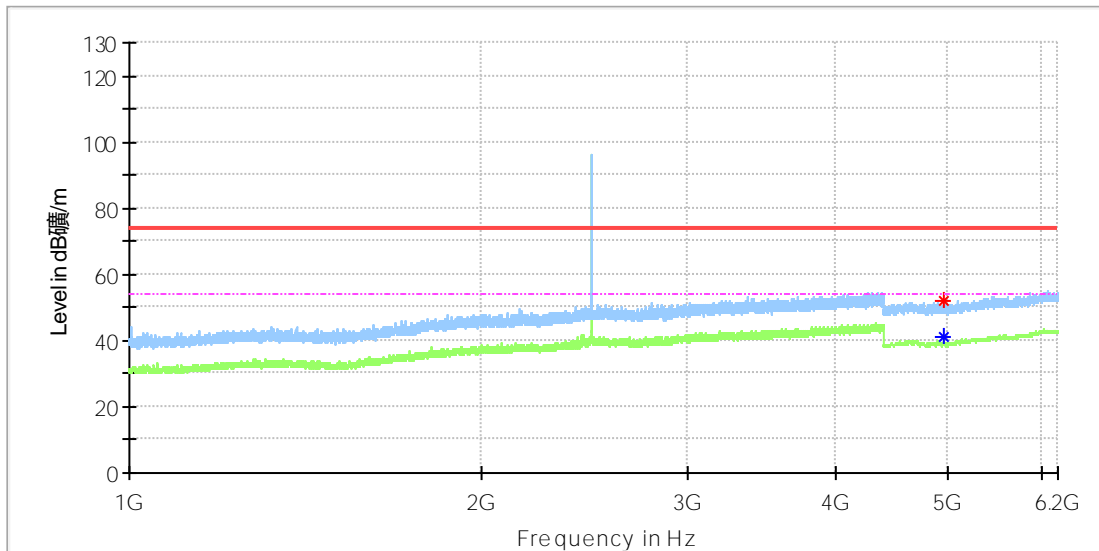
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
4960.000000	51.72	---	74.00	22.28	100.0	H	316.0	11.8
4960.000000	---	41.41	54.00	12.59	100.0	H	316.0	11.8

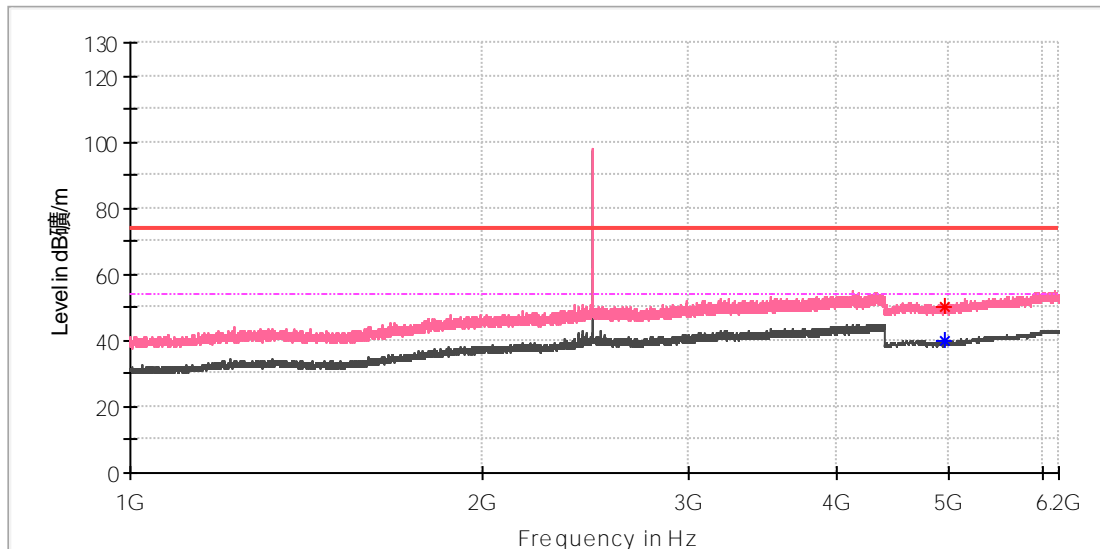
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
4958.000000	50.43	---	74.00	23.57	100.0	V	169.0	11.8
4959.500000	---	40.05	54.00	13.95	100.0	V	319.0	11.8

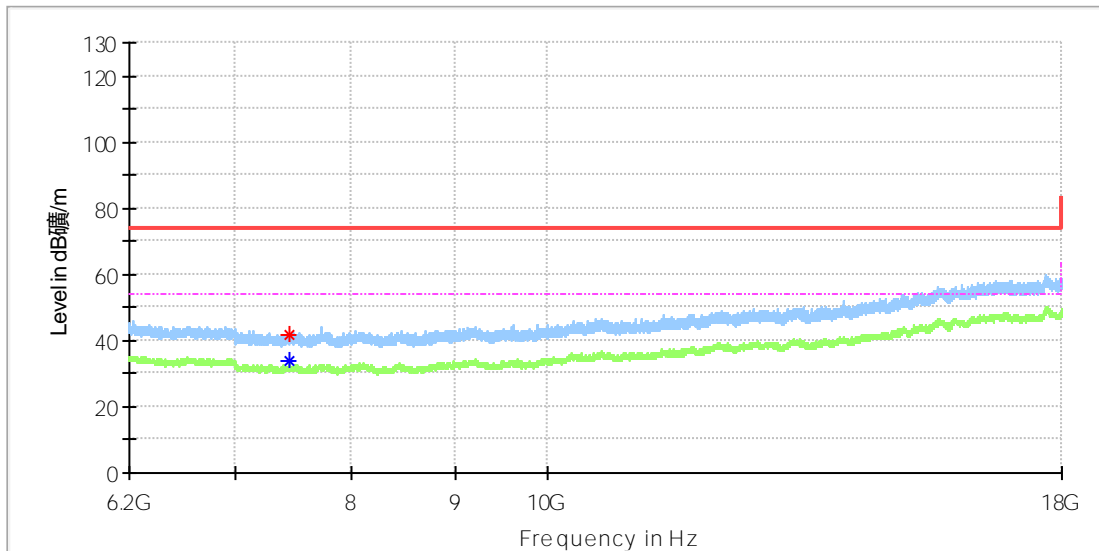
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7440.475000	---	34.09	54.00	19.91	100.0	H	196.0	8.4
7441.950000	41.97	---	74.00	32.03	100.0	H	355.0	8.4

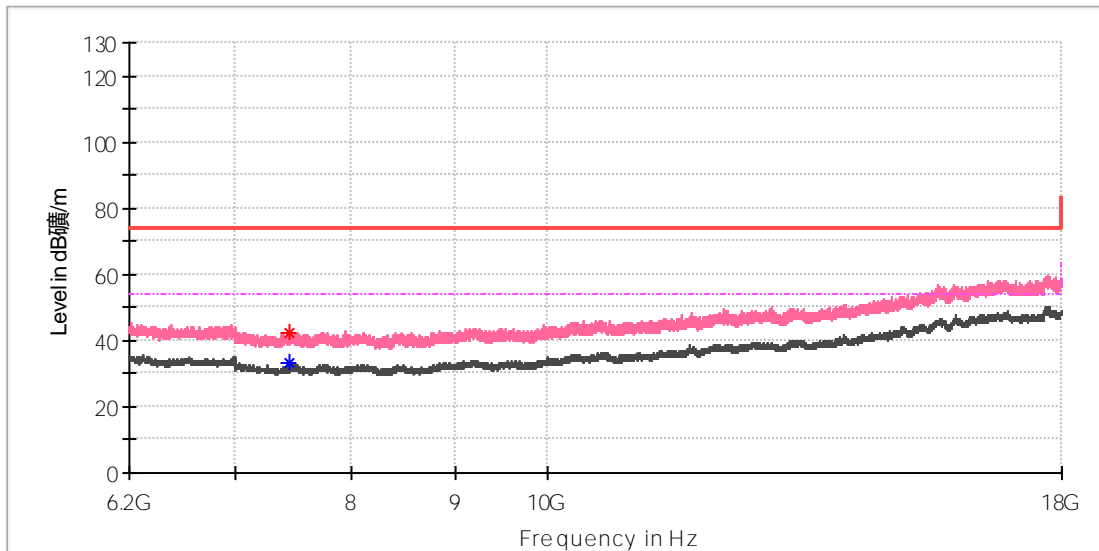
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
7439.491667	42.14	---	74.00	31.86	100.0	V	0.0	8.4
7440.475000	---	33.36	54.00	20.64	100.0	V	159.0	8.4

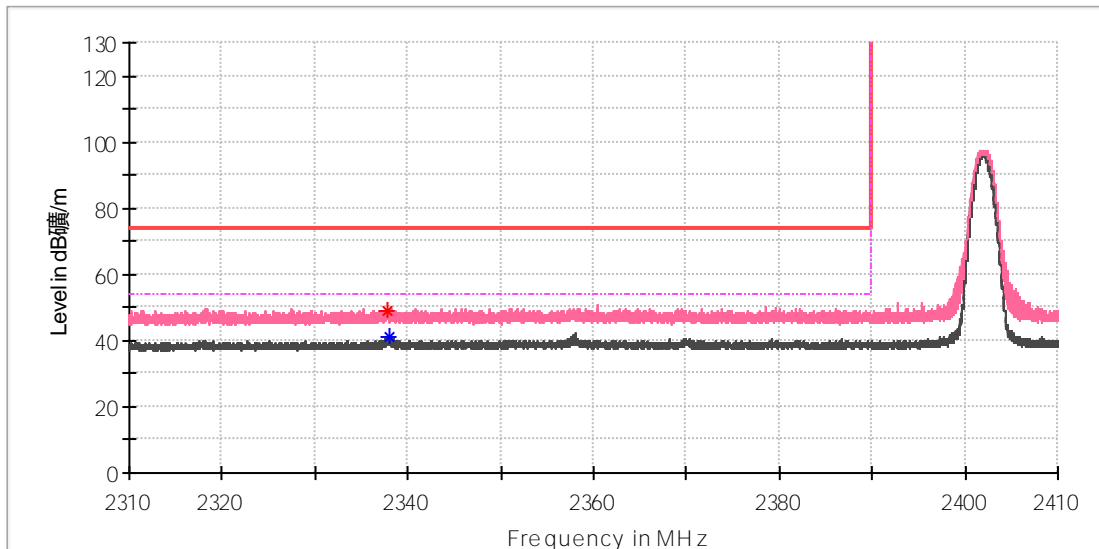
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2337.825000	48.85	---	74.00	25.15	100.0	V	326.0	6.8
2337.970000	---	41.36	54.00	12.64	100.0	V	326.0	6.8

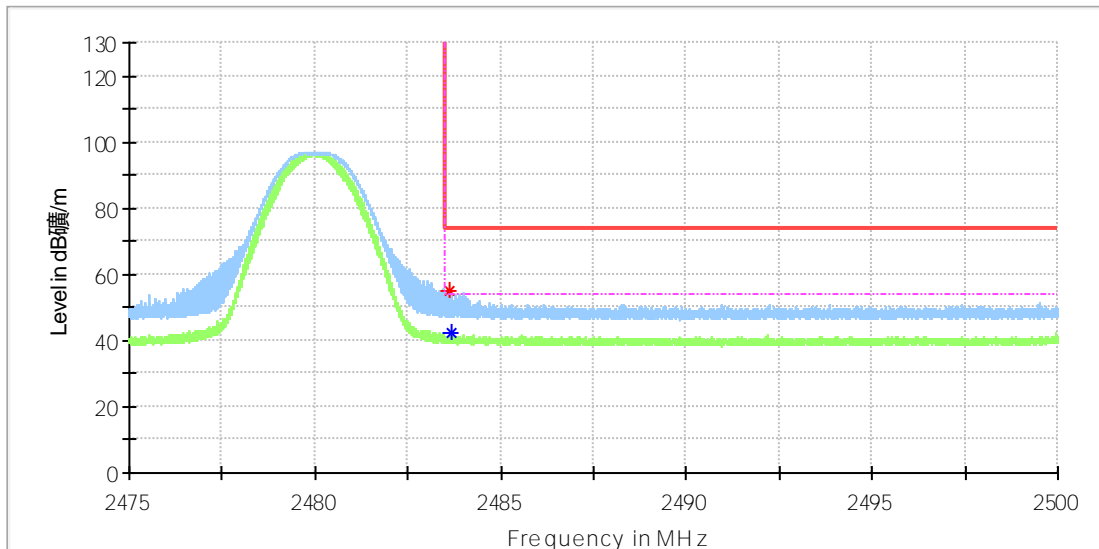
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2483.647500	55.05	---	74.00	18.95	100.0	H	0.0	7.4
2483.697500	---	42.08	54.00	11.92	100.0	H	355.0	7.4

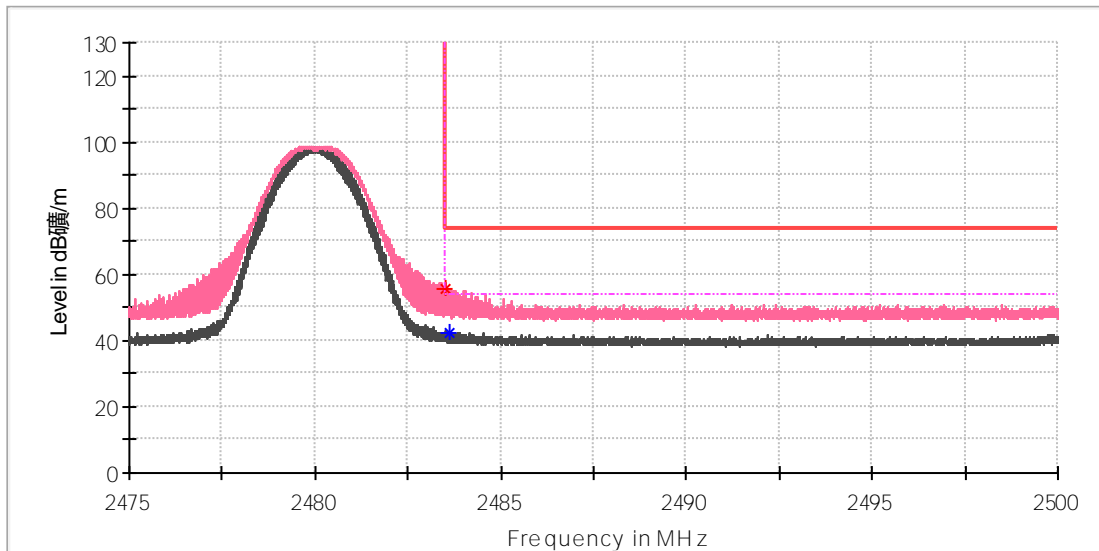
Final_Result

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

Test Report

EUT Information

EUT Name:	DJI RS 3
Model:	P11C
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168347038/A003189904-005
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2483.520000	55.70	---	74.00	18.30	100.0	V	241.0	7.4
2483.595000	---	42.33	54.00	11.67	100.0	V	356.0	7.4

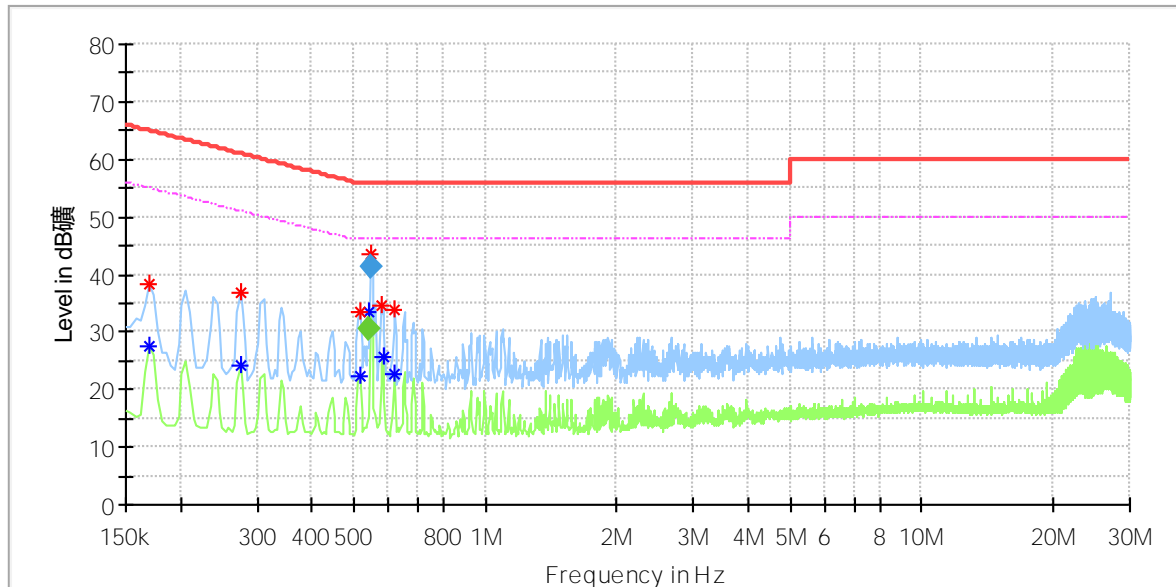
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	DJI RS 3
Order No:	168347038(P00524863) (#200)
Model:	P11C
Test Mode:	Normal Operation
Test Voltage:	AC 120V/60Hz
Test By:	Charlie Zha
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

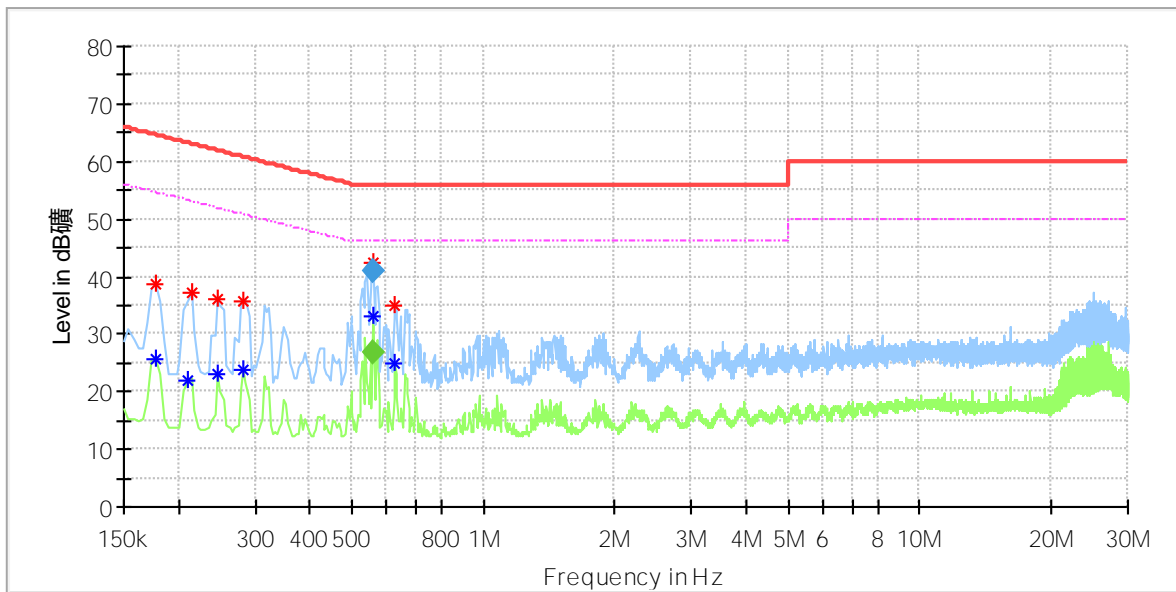
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170000	---	27.69	54.96	27.27	L1	9.6
0.170000	38.38	---	64.96	26.58	L1	9.6
0.274000	---	24.27	51.00	26.72	L1	9.6
0.274000	36.76	---	61.00	24.24	L1	9.6
0.516000	33.36	---	56.00	22.64	L1	9.7
0.516000	---	22.48	46.00	23.52	L1	9.7
0.542500	---	33.61	46.00	12.39	L1	9.7
0.546500	43.55	---	56.00	12.45	L1	9.7
0.576000	34.69	---	56.00	21.31	L1	9.7
0.584000	---	25.82	46.00	20.18	L1	9.7
0.620000	---	22.80	46.00	23.20	L1	9.7
0.620000	33.68	---	56.00	22.32	L1	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.542500	---	30.40	46.00	15.60	1000.0	9.000	L1	9.7
0.546500	41.43	---	56.00	14.57	1000.0	9.000	L1	9.7

EUT Information

EUT Name:	DJI RS 3
Order No:	168347038(P00524863) (#200)
Model:	P11C
Test Mode:	Normal Operation
Test Voltage:	AC 120V/60Hz
Test By:	Charlie Zha
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.178000	---	25.69	54.58	28.89	N	9.6
0.178000	38.56	---	64.58	26.02	N	9.6
0.210000	---	22.14	53.21	31.07	N	9.6
0.214000	37.27	---	63.05	25.78	N	9.6
0.246000	---	23.12	51.89	28.77	N	9.6
0.246000	36.20	---	61.89	25.69	N	9.6
0.282000	---	23.80	50.76	26.96	N	9.6
0.282000	35.87	---	60.76	24.89	N	9.6
0.558500	42.34	---	56.00	13.66	N	9.7
0.558500	---	33.00	46.00	13.00	N	9.7
0.628000	---	25.02	46.00	20.98	N	9.7
0.628000	34.95	---	56.00	21.05	N	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.558500	41.01	---	56.00	14.99	1000.0	9.000	N	9.7
0.558500	---	26.64	46.00	19.36	1000.0	9.000	N	9.7