

Radio Test Report

According to

**FCC part 15C,
RSS-247, RSS-Gen**

DUT Name: The Mindfulness Ring

Model No. : PULSE-R

Customer: Pulse Mindfulness Inc.

Address: 1007 N Orange St. 4th Floor Suite #2898, Wilmington DE 19801,
United States of America

Summary IN COMPLIANCE

Date of Reception: 8.10.2025

Date(s) of Test(s): 9.10.2025 – 20.10.2025

Tested by Test Engineer


Pekka Pulkkinen

Approved by Technical Manager


Jukka Rauma

The test report shall not be reproduced except in full, without the written approval of the laboratory. This report is only for the equipment which is described in page 4.

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Document Version History	Date of issue	Comments	Approved by
v0.1	4.11.2025	Initial version	
v1.0	14.11.2025	Approved version with signatures. FCC and IC ID's added	Jukka Rauma

1. General Information

Test Engineer(s): Arto Kuosmanen, Pekka Pulkkinen

Location:

Test Firm Name	Eurofins Electric & Electronics Finland Oy (EEEF)
Test Site	Yrttipellontie, Peltola
Address of Test Site	Yrttipellontie 6, 90230 Oulu, Finland
FCC Designation number	FI0008
FCC site registration number	771880
ISED number	29576
CAB Identifier	T290

Customer: Pulse Mindfulness Inc.
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United States of America
Elliott Bavarian
tel: +46702363134
e-mail: elliott@thepulsering.com

Climate Conditions: Temperature: 15 - 35 °C
Air pressure: 860 - 1060 hPa
Humidity: 30-60 rH%
These limits were not exceeded during testing.

2. Test Samples

General description:

Mindfulness ring that gently reminds you to pause, breathe, and reconnect with the present moment. Ring supports following features: Bluetooth LE beacon, dynamic vibra motor and wireless charging.

Test sample:

Sample number	Serial number	Manufacturer	DUT Type	Model	HW version	SW version	Comment
2500267201	E6B5E41DA56C	Pulse Mindfulness Inc.	Vibrating ring with BLE connectivity	PULSE-R	ENA_03	0.1.15	Size 10, Radiated
2500267213	E6B5E41DA56C	Pulse Mindfulness Inc.	Vibrating ring with BLE connectivity	PULSE-R	ENA_03	0.1.15	Conducted RF

Auxiliary equipment:

Sample number	Serial number	Manufacturer	DUT Type	Model	
G4C-L046	PW-02M5BT	Lenovo	Laptop	L14	Test PC with Nordic nRFConnect

Description	Information	
Additional model	-	
Brand Names(s)	Pulse Mindfulness	
PMN	The Mindfulness Ring	
HVIN	PULSE-R	
FVIN	0.1.15	
HMN	N/A	
FCC ID	2BP6F-PULSE-R	
IC ID	34429-PULSER	
Equipment type	End product	
Radio type	Transceiver	
- operating frequency range:	2400.0 MHz – 2483.5 MHz	
- Nominal Channel Bandwidth:	1 and 2 MHz	
Radio technology / type of equipment	Bluetooth 5.2	
Modulation:	GFSK	
Number of antennas	1	
Bluetooth Specification	LE 1Mbps PHY	Yes
	LE 2Mbps PHY	Yes
	LE Coded PHY S=2 (500 kbit)	No
	LE Coded PHY S=8 (125 kbit)	No
	Stable Modulation Index - Transmitter	No
	Stable Modulation Index - Reer	No
Antenna	Type	PCB strip line
	Model	-
	Manufacturer	Haltian Oy
	Gain	-5.9 dBi
Supply voltage	Battery operated, $V_{Nom} = 3.7$ VDC	
Type of Power source	Lithium-ion battery, Wireless Power Transfer	
Operating Temperature	TNom = +25°C TMin = 0°C TMax = +45°C	
Manufacturer	Pulse Mindfulness Inc. 1007 N Orange St. 4th Floor Suite #2898, Wilmington DE 19801, United States of America	

3. Configuration and Operation Modes

Conducted and radiated emission test:

Test modes / description
EUT battery powered, Bluetooth LE continuous modulated carrier at 2402 MHz (ch37), 2442 MHz (ch18) and 2480 MHz (ch39), power level setting 0 dBm (Python scripts/Nordic nRF Connect), data rate 1 and 2 Mbps PHY. Duty cycle 63% (1 Mbps) and 29% (2 Mbps)
EUT battery powered, Bluetooth LE continuous reception at 2442 MHz

Test/configuration software

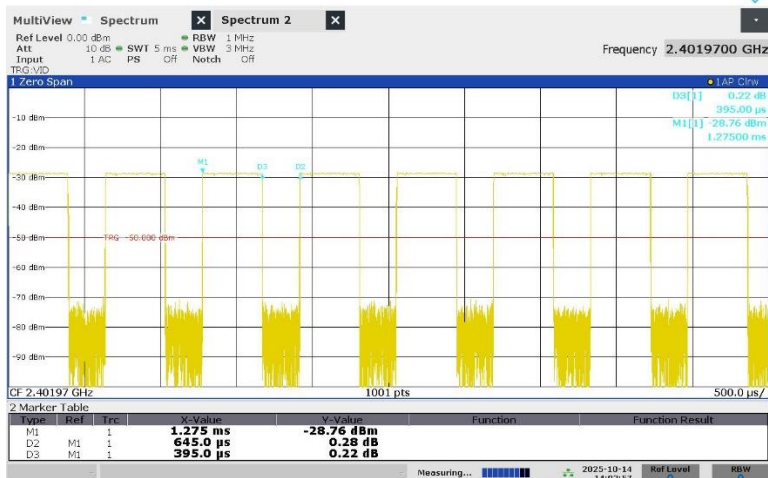
Manufacturer	Name	Version
Nordic Semiconductor ASA	nRF Connect for desktop	V5.1.0
Haltian Oy	Python scripts for RF test commands	NA

4. Test mode duty cycle

Test information	
Measurement method	FCC 558074 D01 15.247 Meas Guidance v05r02, ANSI C63.10 11.6
Test procedure	Duty cycle tested manually with R&S ESW26

Measurement result

Bluetooth LE, 1 Mbps



MultiView Spectrum Spectrum 2

Ref Level 0.00 dBm Att 10 dB BW 5 MHz RBW 1 MHz
Input 1 AC PS Off Notch Off

Frequency 2.4019700 GHz

1 Zero Span

D3[1] 0.22 dB
M1[1] 28.76 dBm
1.27500 ms

1001 pts

500.0 μs

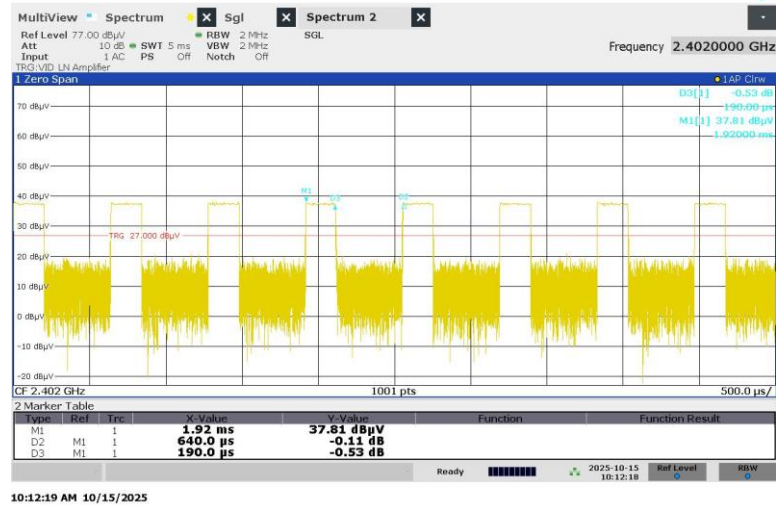
CF 2.40197 GHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.275 ms	-28.76 dBm		
D2	M1	1	645.0 μs	0.28 dB		
D3	M1	1	395.0 μs	0.22 dB		

Measuring... 2025-10-14 14:02:57 Ref Level RBW

02:02:57 PM 10/14/2025

Bluetooth LE, 2 Mbps



Bluetooth LE 1Mbps Duty cycle = 60.94%

Duty cycle correction factor = $20 \cdot \log(1/0.6094) = 4.30 \text{ dB}$

Bluetooth LE 2Mbps Duty cycle = 29.69%

Duty cycle correction factor = $20 \cdot \log(1/0.2969) = 10.55 \text{ dB}$

5. Test equipment

Conducted RF tests

R&S TS8997 Test System equipment list:

New ID	Manufacturer	Equipment type	Description	Serial	Calibration information	Next calibration
G4C462	Rohde & Schwarz	SMW200A	Vector signal generator	110578	27.6.2023	27.6.2026
G4C463	Rohde & Schwarz	SMB100A	Signal Generator	183205	27.6.2023	27.6.2026
G4C465	Rohde & Schwarz	OSP220	Open switch and control unit	102440	12.6.2025	12.6.2026
G4C466	Rohde & Schwarz	ESW44	EMI test receiver	103103	10.6.2025	10.6.2026
G4C467	Rohde & Schwarz	CMW500	Wideband radio communication tester	171062	18.6.2025	18.6.2027

Radiated emission

New ID	Manufacturer	Equipment type	Description	Serial	Calibration information	Next calibration
G4C265	Rohde & Schwarz	ESW26	EMI test receiver	101324	15.7.2025	7/15/2026
G4C273	Frankonia	ALX-4000E	Broadband Antenna, 25MHz-4GHz with 6dB (50-A-MFN-06) att.	00816+1531	22.1.2024	1/22/2027
G4C292	Rohde & Schwarz	TS-LNA 1840	RF Preamplifier 18 to 40 GHz	100841	12.8.2024	8/12/2026
G4C294	Rohde & Schwarz	TC-HORN40 + WRD180-2.9	Horn Antenna -> 40GHz	101057 + 100667	4.11.2022	11/4/2025
G4C469	Rohde & Schwarz	TS_PRE2	RF Preamplifier	101541	12.8.2024	8/12/2026
G4C576	Rohde & Schwarz	HF907	Double-Ridged Waveguide Horn Antenna 800MHz-18GHz	100163	8.7.2025	7/8/2028

Test software

Description	Manufacturer	Name	Version
EMC Software	Rohde & Schwarz	EMC32	10.60.20
RF Software	Rohde & Schwarz	WMS32	12.20.00

6. Uncertainties

Description	Expanded Uncertainty (k=2)
RF Output Power	0,99
Peak Power	0,80
Power Spectral Density	0,99
Accumulated Transmit Time	0,01%
Minimum Frequency Occupation Time	0,01%
Hopping Frequency Separation	0,60%
Occupied Channel Bandwidth	2,08 %
Out-of-band emissions	0,89
Transmitter unwanted emissions in the spurious domain	1,76
AC conducted emission	2,24
Radiated emission ≤ 1 GHz	4,62
Radiated emission > 1 GHz	5,72

7. Sample emission level calculation

The following is a description of term and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBuV.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strength to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. RF path losses, including RF cables and preamplifiers, have been included with the A.F to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dBuV)} + \text{A.F. (dB/m)} = \text{Net field strength (dBuV/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBuV/m). The FCC limits are given in units of uV/m. The following formula is used to convert the units of uV/m to dbuV/m:

$$\text{Limit (dBuV/m)} = 20 \cdot \log(\text{uV/m})$$

Margin :

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading :	Net reading – FCC limit	= Margin
+ 21.5 dBuV + 26 dB/m	= 47.5 dBuV/m :	47.5 dBuV/m – 57.0 dBuV/m	= -9.5 dB

8. Test conditions

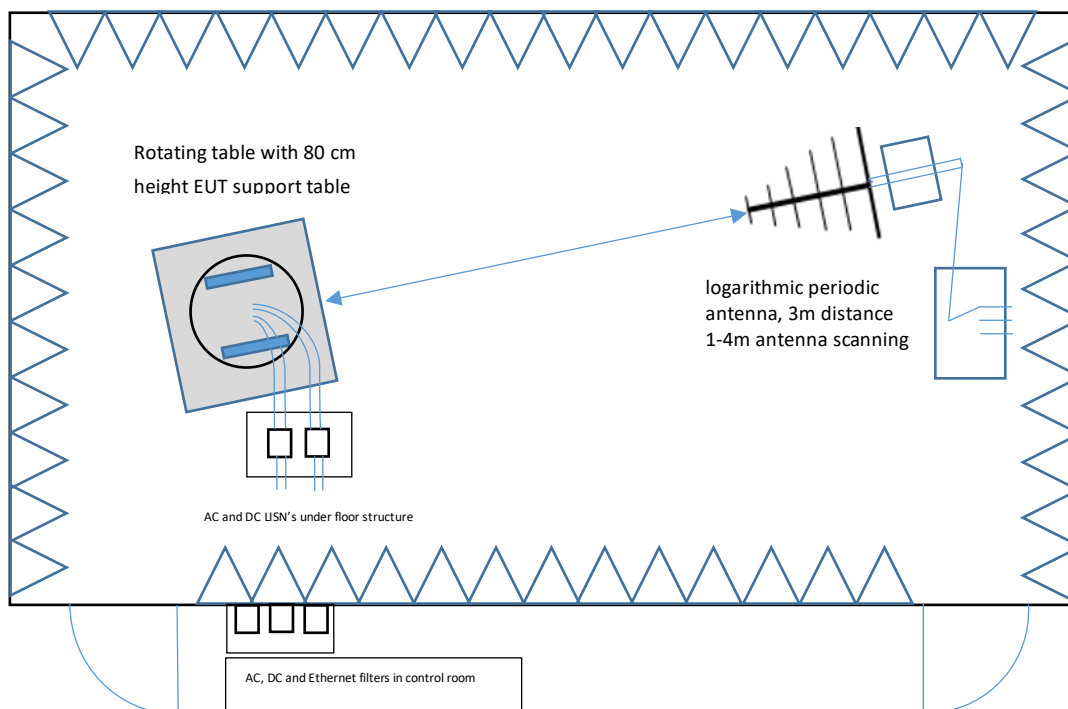
All radiated tests were performed in a semi-anechoic chamber, where the measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz, 1 GHz-18 GHz Double-ridged horn antenna and 18 GHz-40 GHz horn antenna) is located at a distance of 3 m.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (all antennas) was varied from 1 to 4 meters to find the maximum radiated emission.

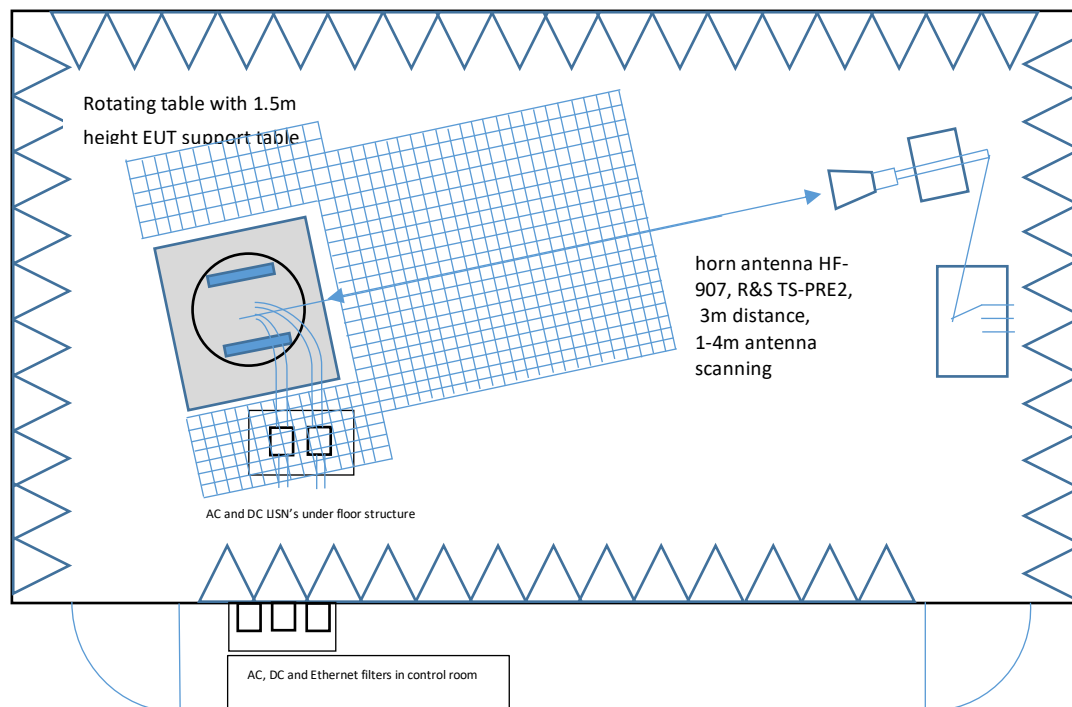
To determine worst-case scenario, pre-scan measurements have been conducted in both horizontal and vertical planes of polarization and for portable equipment measurement with all three orthogonal axis. Final test is then performed according to pre-scan results.

A resolution bandwidth / video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

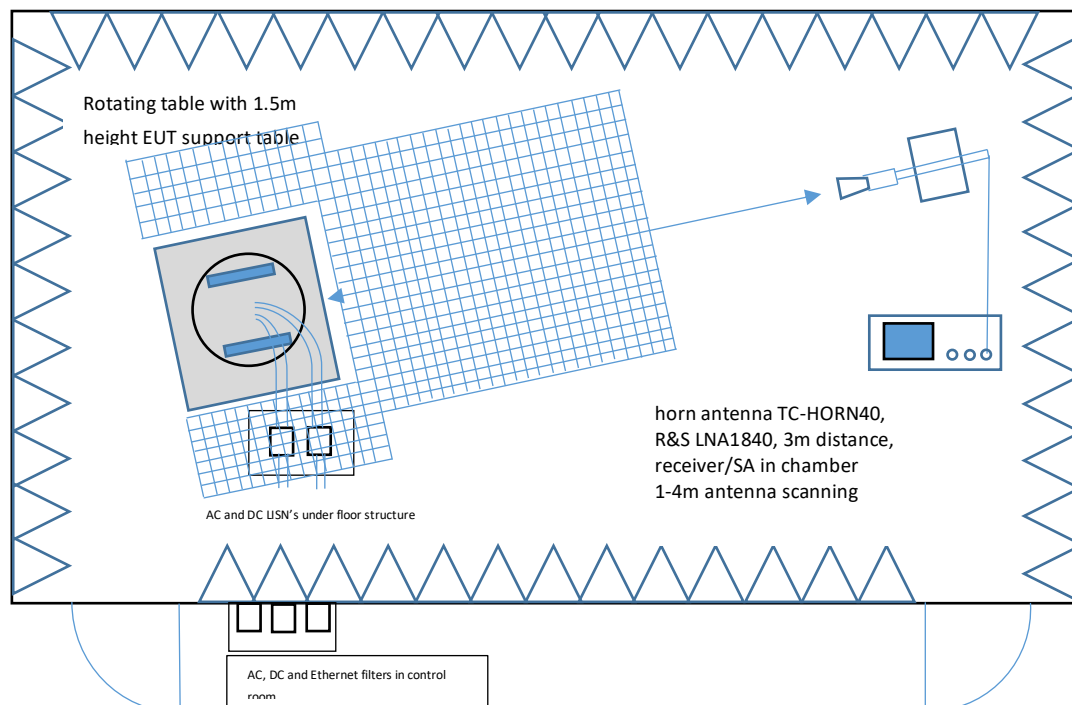
Radiated measurements setup from 30 MHz to 1 GHz:



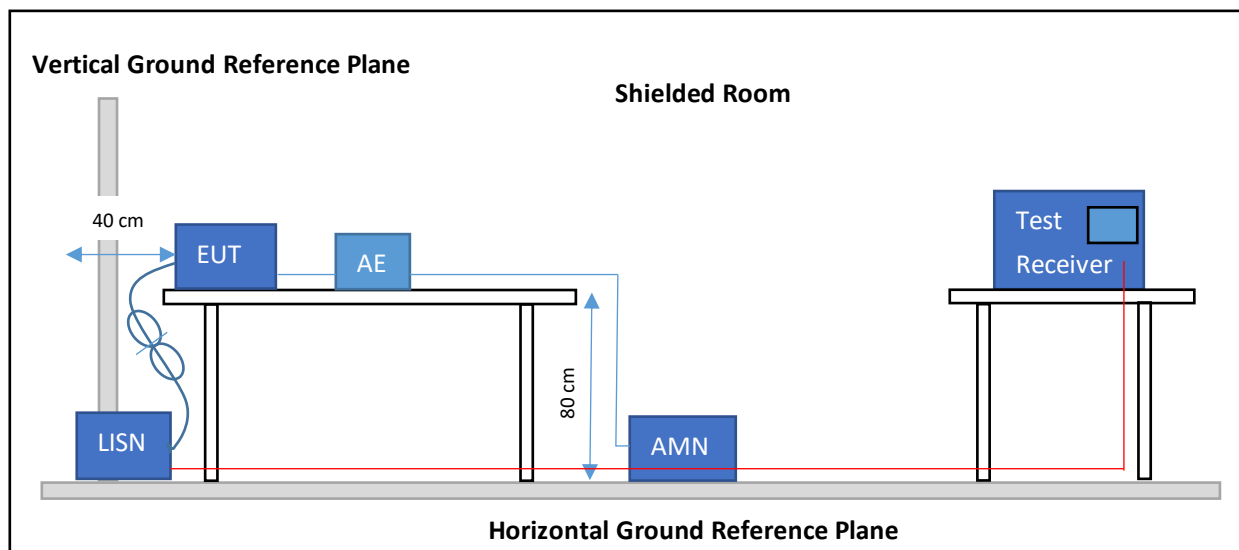
Radiated measurements setup from 1 GHz to 18 GHz:



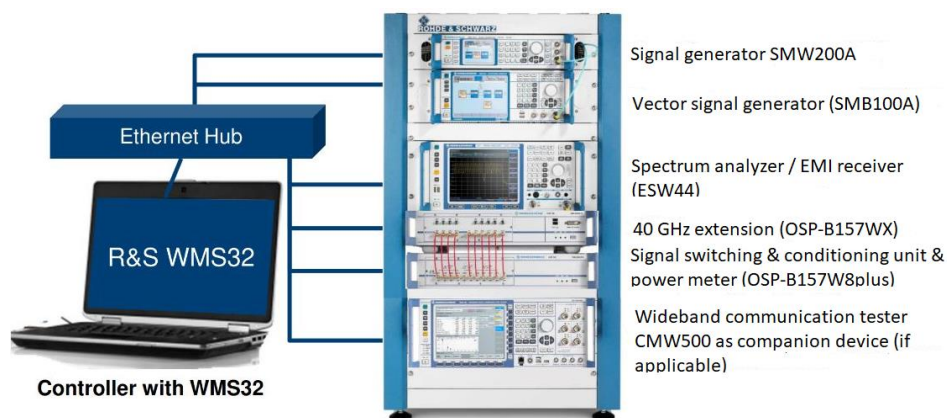
Radiated measurements setup from 18 GHz to 26 / 40 GHz:



Conducted emission setup



Conducted RF measurement system:



9. Summary

FCC/ISED Requirement (15.247 / RSS-247)		Reference method	Result	Remark
Occupied Bandwidth	ISED RSS-Gen, Issue 5 A2 (section 6.7)	ANSI C63.10-2020 + Cor.1-2023	N/R	Informational only
6 dB Bandwidth	FCC § 15.247(a)(2) / RSS-247, Issue 4 (section 5.2 (a))	ANSI C63.10-2020 + Cor.1-2023	PASS	
Maximum peak conducted power	FCC § 15.247(b) / RSS-247, Issue 4 (section 5.4 (d))	ANSI C63.10-2020 + Cor.1-2023	PASS	
Power spectral density	FCC § 15.247(e) / RSS-247, Issue 4 (section 5.2 (b))	ANSI C63.10-2020 + Cor.1-2023	PASS	
AC power line conducted emissions	FCC § 15.207 / RSS-247, Issue 4 (section 3.1)	ANSI C63.10-2020 + Cor.1-2023	PASS	
Band edge compliance	FCC § 15.247(d) / RSS-247, Issue 4 (section 5.5)	ANSI C63.10-2020 + Cor.1-2023	PASS	
Conducted spurious emissions	FCC § 15.247(d) / RSS-247, Issue 4 (section 5.5)	ANSI C63.10-2020 + Cor.1-2023	PASS	
Transmitter radiated spurious emissions	FCC § 15.247(d), FCC § 15.209 / RSS-Gen, Issue 5 A2 (section 6.13)	ANSI C63.10-2020 + Cor.1-2023	PASS	
Receiver radiated spurious emissions	ISED RSS-247, Issue 4 (section 3.1)	ANSI C63.4-2014 + C63.4a-2017	PASS	
Possible test case verdicts: PASS = Tested device meets the requirements FAIL = Tested device does not meet the requirements N/A = Test requirement not applicable for tested device N/T = Test requirement applicable for tested device, but not tested				
Applicable FCC KDB(s): KDB 558074 DO1: DTS measurement guidance v 0502 (Apr 2, 2019)				

10. Occupied bandwidth

Reference: ISED RSS-Gen, Issue 5 A2 (section 6.7)

Test method: ANSI C63.10-2020+Cor.1-2023 (6.9.3)

Limits
None (Informational only)

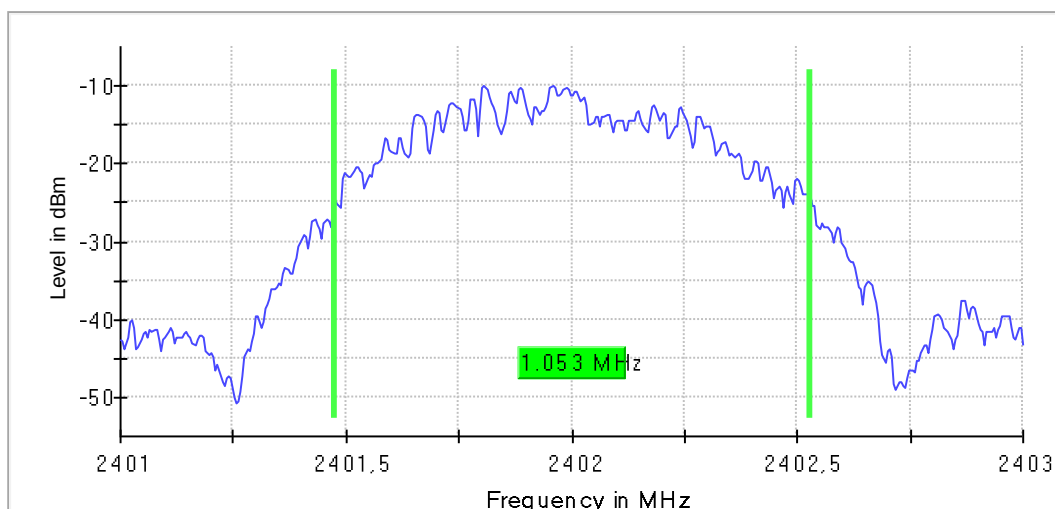
Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. Spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1% to 5% of the occupied bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

Summary:

Summary		
Mode / modulation	Frequency (MHz)	Bandwidth (MHz)
Bluetooth LE, 1 Mbps	2402	1.052632
Bluetooth LE, 1 Mbps	2442	1.052632
Bluetooth LE, 1 Mbps	2480	1.052632
Bluetooth LE, 2 Mbps	2402	2.045113
Bluetooth LE, 2 Mbps	2442	2.055138
Bluetooth LE, 2 Mbps	2480	2.065163

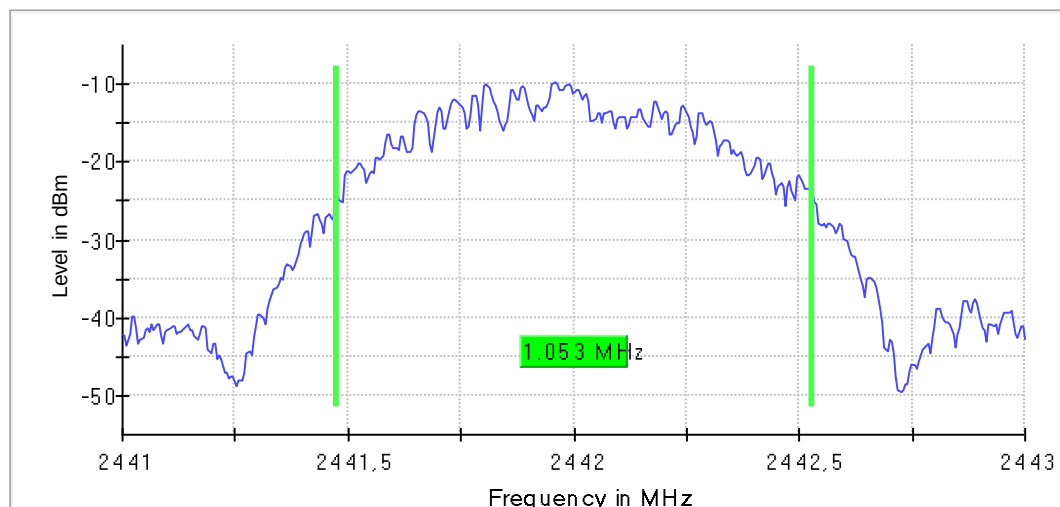
Occupied bandwidth, low channel

99 % Bandwidth



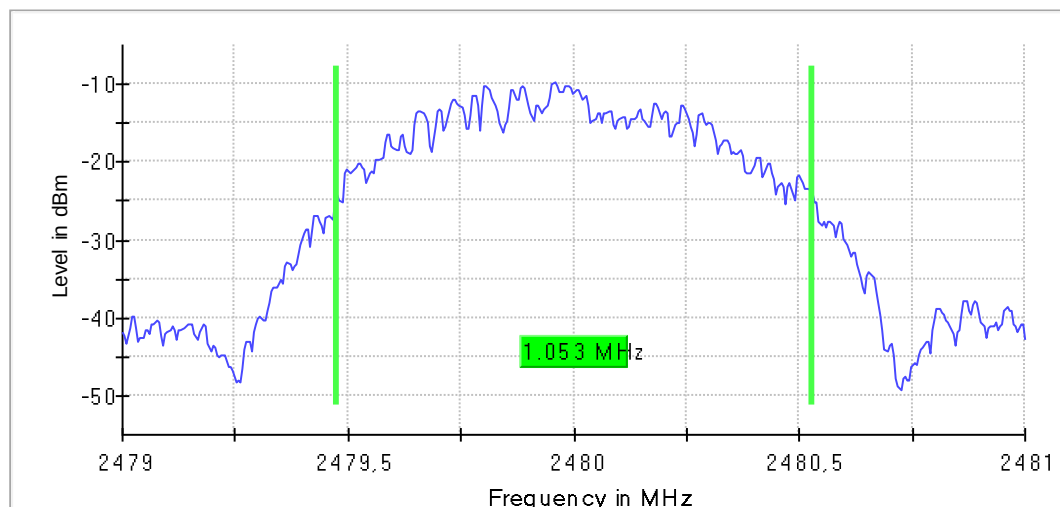
Occupied bandwidth, middle channel

99 % Bandwidth



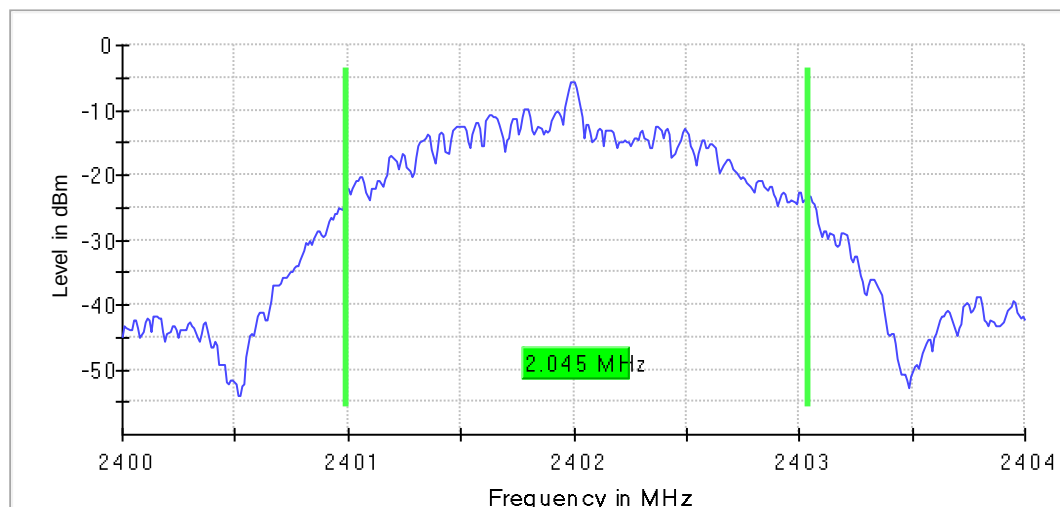
Occupied bandwidth, high channel

99 % Bandwidth



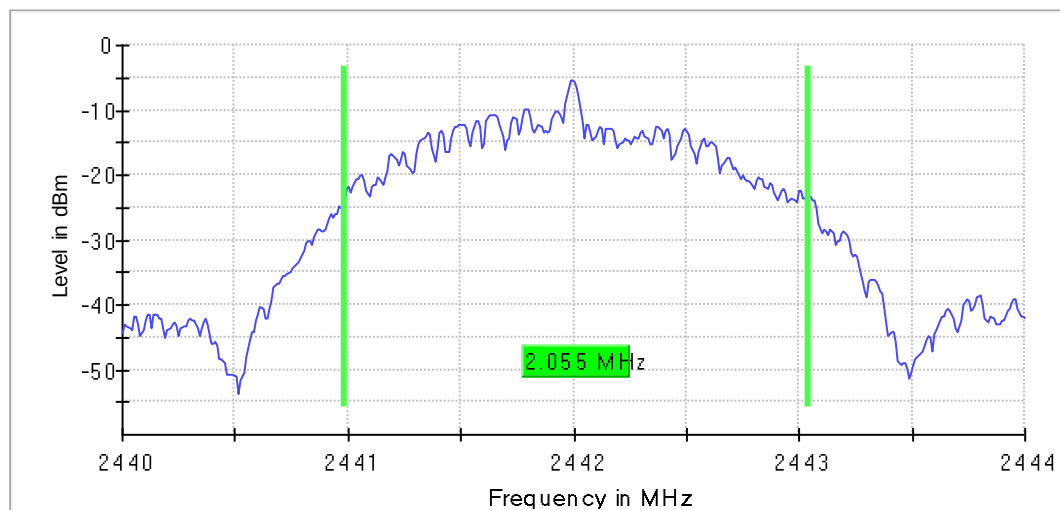
Occupied bandwidth, low channel 2 Mbps

99 % Bandwidth



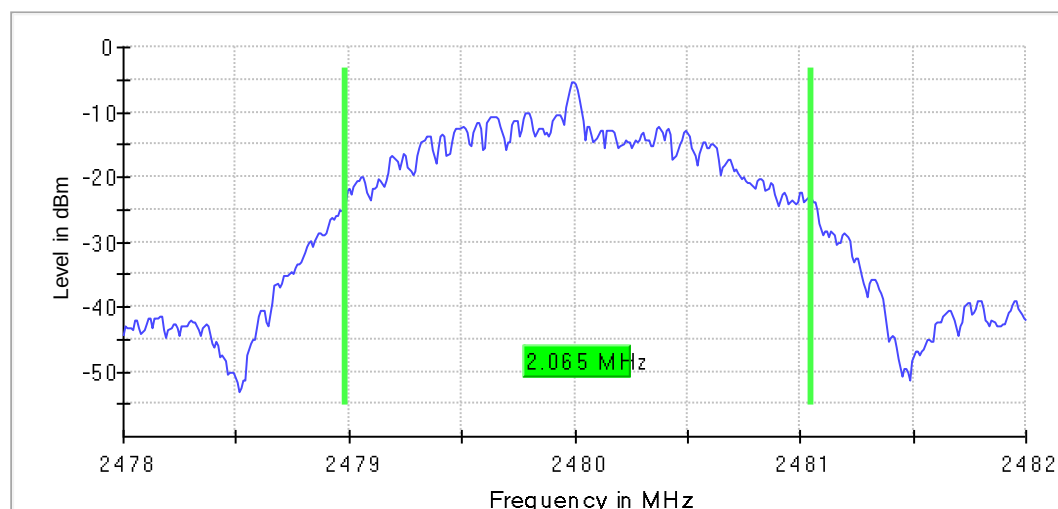
Occupied bandwidth, middle channel 2 Mbps

99 % Bandwidth



Occupied bandwidth, high channel 2 Mbps

99 % Bandwidth



11. 6 dB bandwidth

Reference: FCC title 47 part 15 §15.247(a), ISSED RSS-247, Issue 4 (section 5.2)

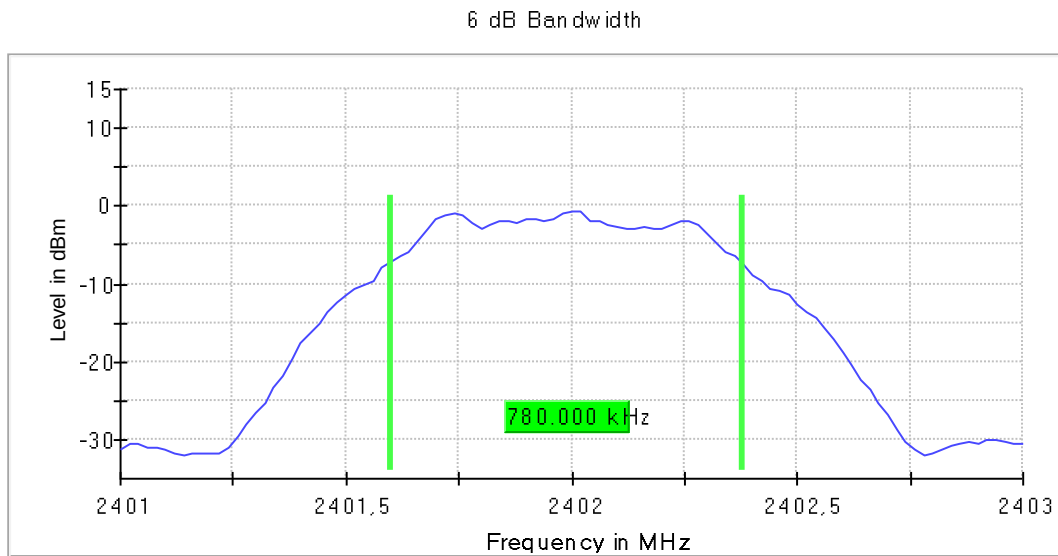
Test method: KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2020+Cor.1-2023 (11.8.1)

Limits
The minimum 6 dB bandwidth shall be at least 500 kHz.

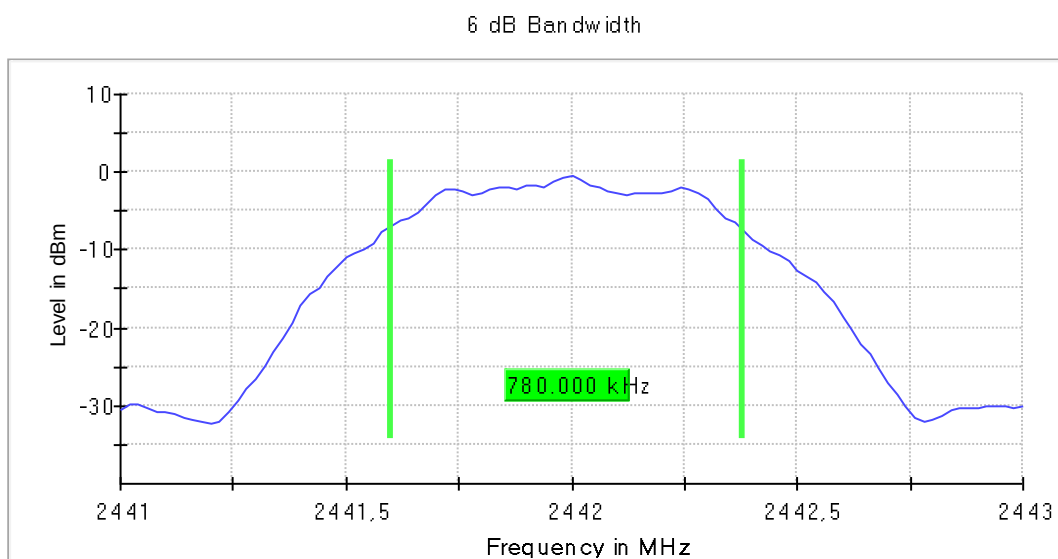
Test procedure
1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and BW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6 dB bandwidth is determined by marker frequency separation

Mode / modulation	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
Bluetooth LE, 1 Mbps	2402.000000	0.780000	0.500000	---	2401.600000	2402.380000	-0.6	PASS
Bluetooth LE, 1 Mbps	2442.000000	0.780000	0.500000	---	2441.600000	2442.380000	-0.5	PASS
Bluetooth LE, 1 Mbps	2480.000000	0.760000	0.500000	---	2479.620000	2480.380000	-0.2	PASS
Bluetooth LE, 2 Mbps	2402.000000	1.240000	0.500000	---	2401.360000	2402.600000	-0.6	PASS
Bluetooth LE, 2 Mbps	2442.000000	1.280000	0.500000	---	2441.320000	2442.600000	-0.7	PASS
Bluetooth LE, 2 Mbps	2480.000000	1.200000	0.500000	---	2479.400000	2480.600000	-0.3	PASS

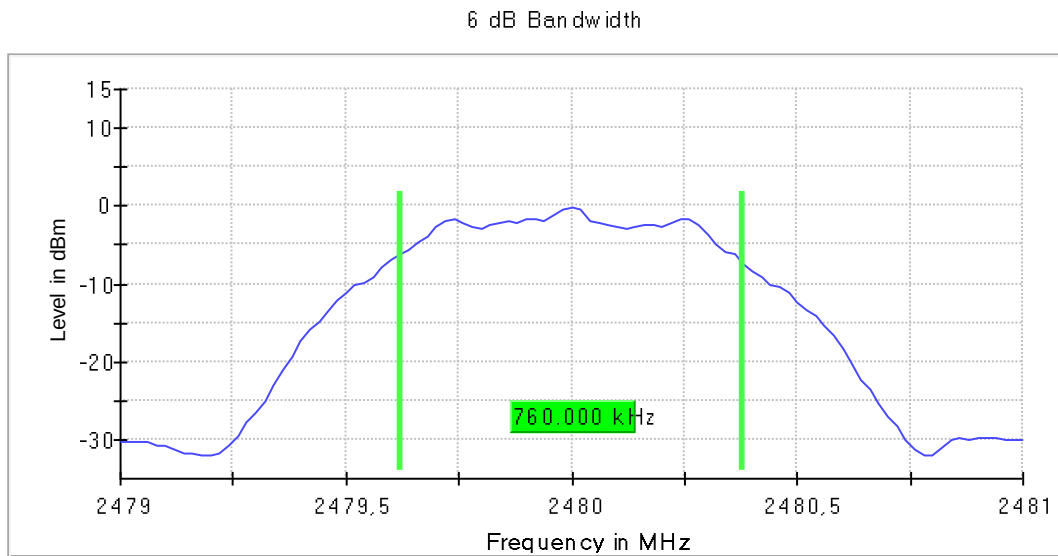
6 dB Bandwidth, low channel:



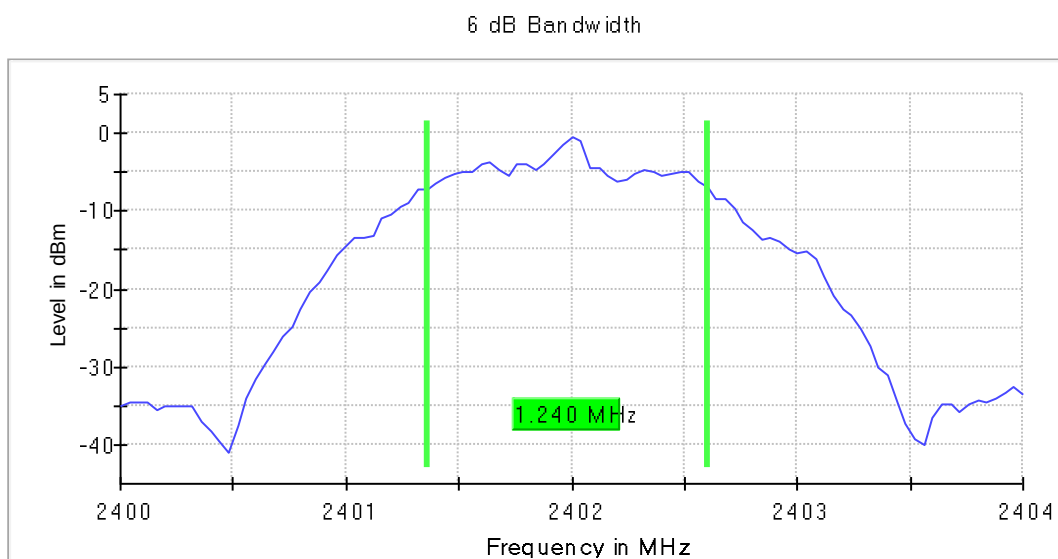
6 dB Bandwidth, middle channel:



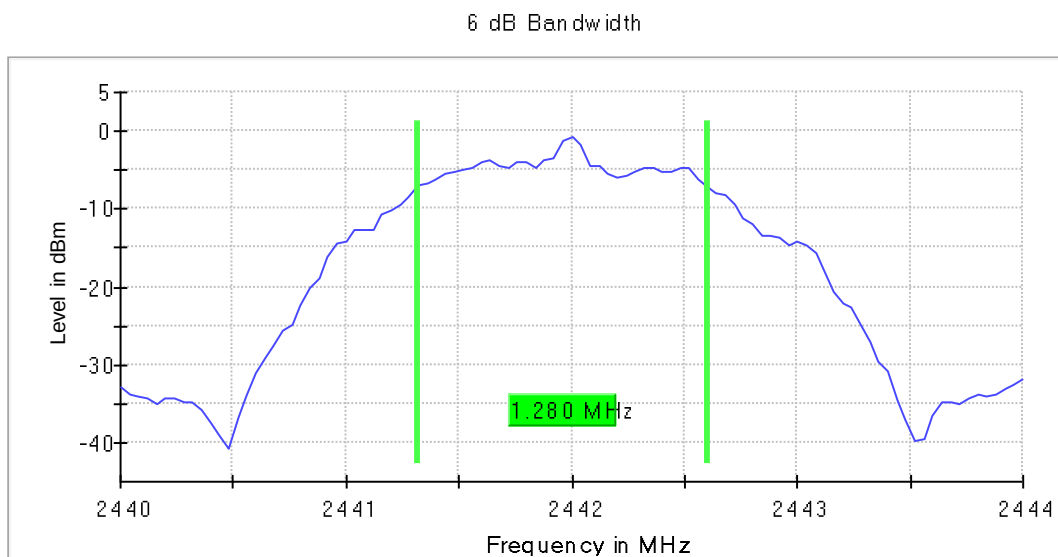
6 dB Bandwidth, high channel:



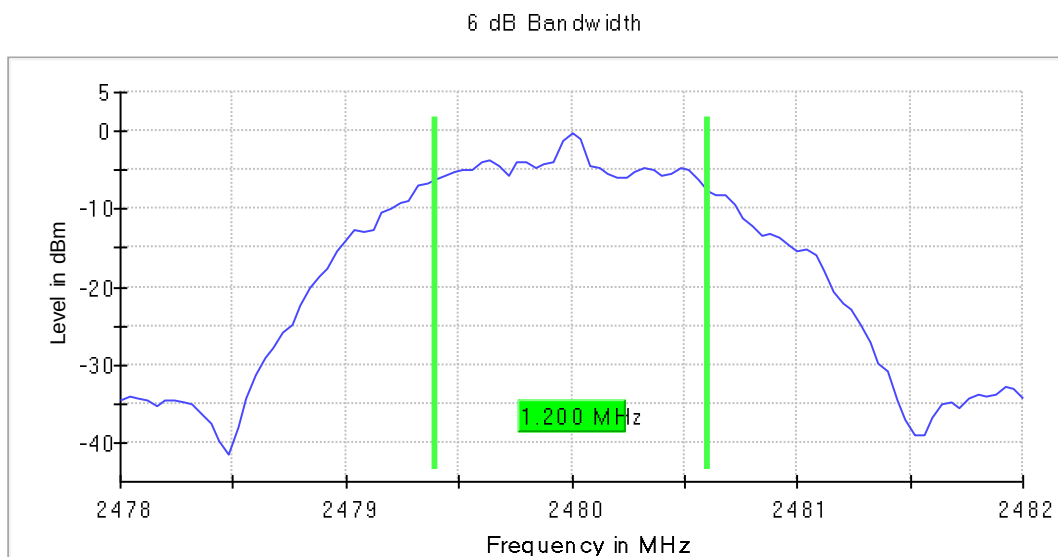
6 dB Bandwidth, low channel 2 Mbps:



6 dB Bandwidth, middle channel 2 Mbps:



6 dB Bandwidth, high channel 2 Mbps:



12. Peak conducted output power

Reference: FCC part 15 §15.247(b), ISED RSS-247, Issue 4 (section 5.4)

Test method: KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2020+Cor.1-2023 (11.9.1.1)

Limits
For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm). The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

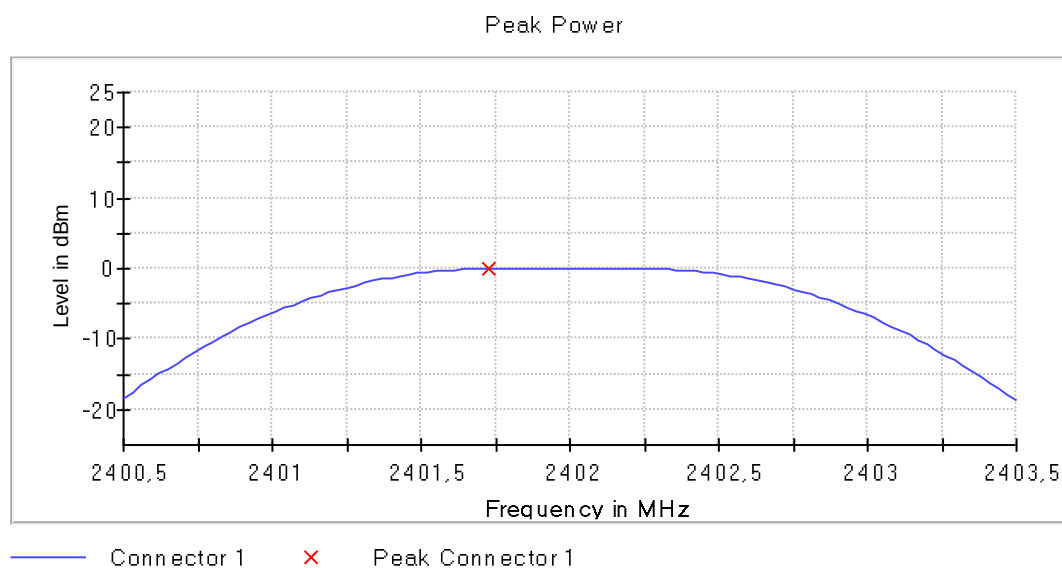
Test procedure
1. EUT set to test mode (communication tested is used if needed) 2. Analyzer resolution bandwidth is set $\geq$ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After trace has stabilized a marker is set to peak envelope

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

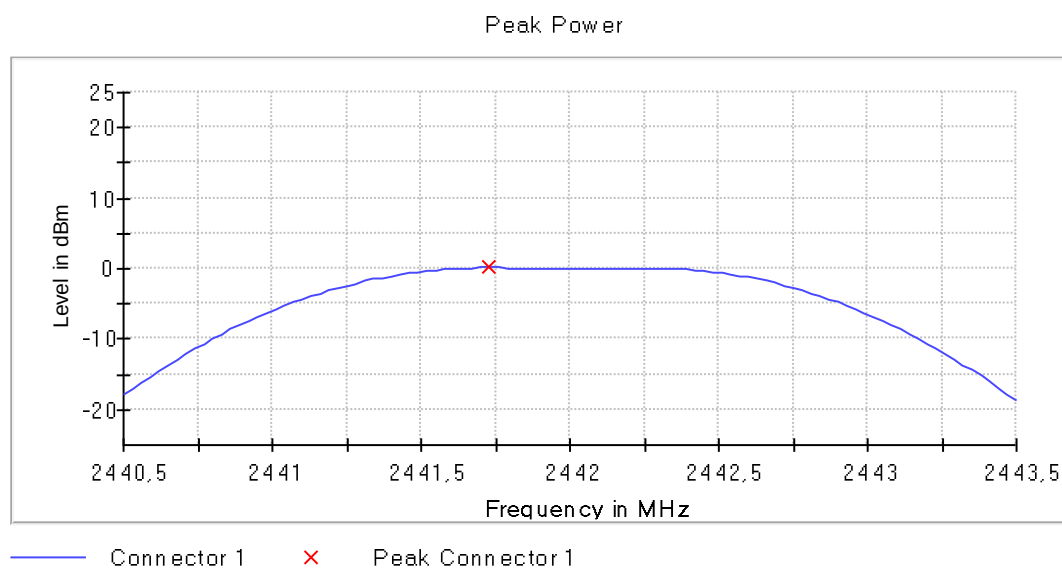
Maximum Declared Antenna Gain: -5.9 dBi

Mode / modulation	DUT Frequency (MHz)	Peak Power (dBm)	EIRP Power (dBm)	Result
Bluetooth LE, 1 Mbps	2402.000000	0.0	-5.9	PASS
Bluetooth LE, 1 Mbps	2442.000000	0.1	-5.8	PASS
Bluetooth LE, 1 Mbps	2480.000000	0.1	-5.8	PASS
Bluetooth LE, 2 Mbps	2402.000000	-0.1	-6.0	PASS
Bluetooth LE, 2 Mbps	2442.000000	0.0	-5.9	PASS
Bluetooth LE, 2 Mbps	2480.000000	0.1	-5.8	PASS

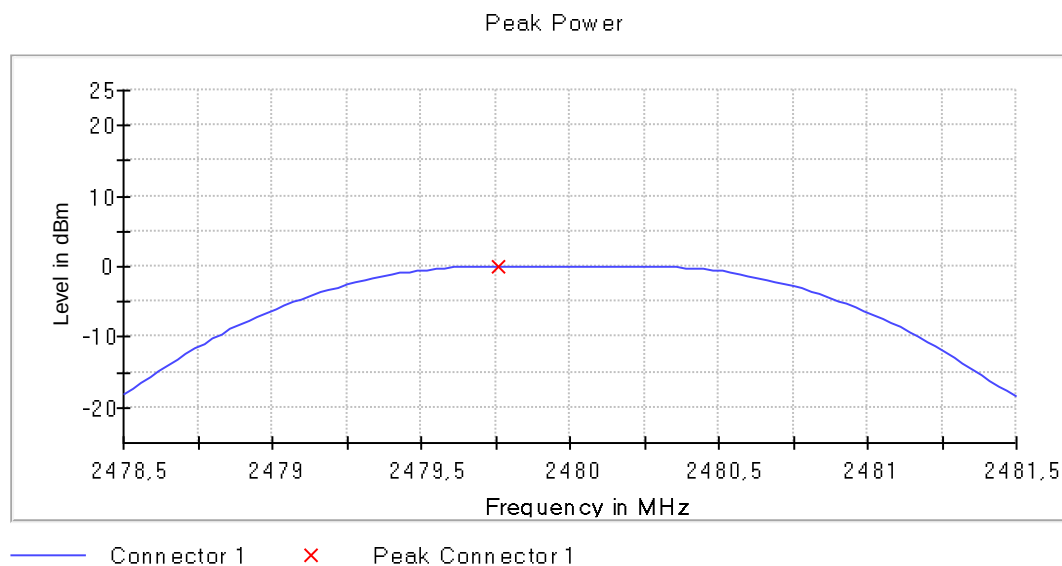
Peak power, low channel



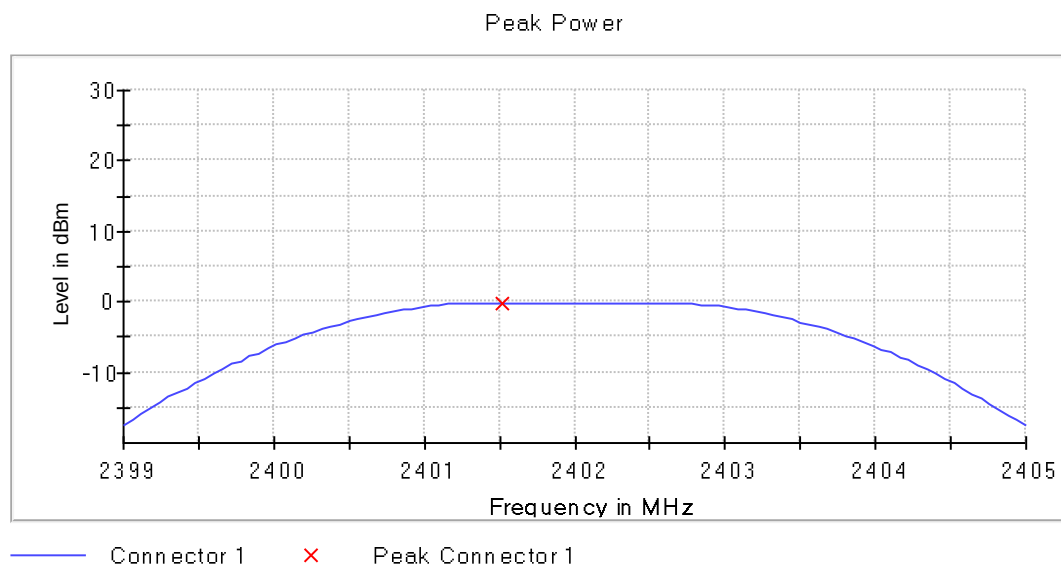
Peak power, middle channel



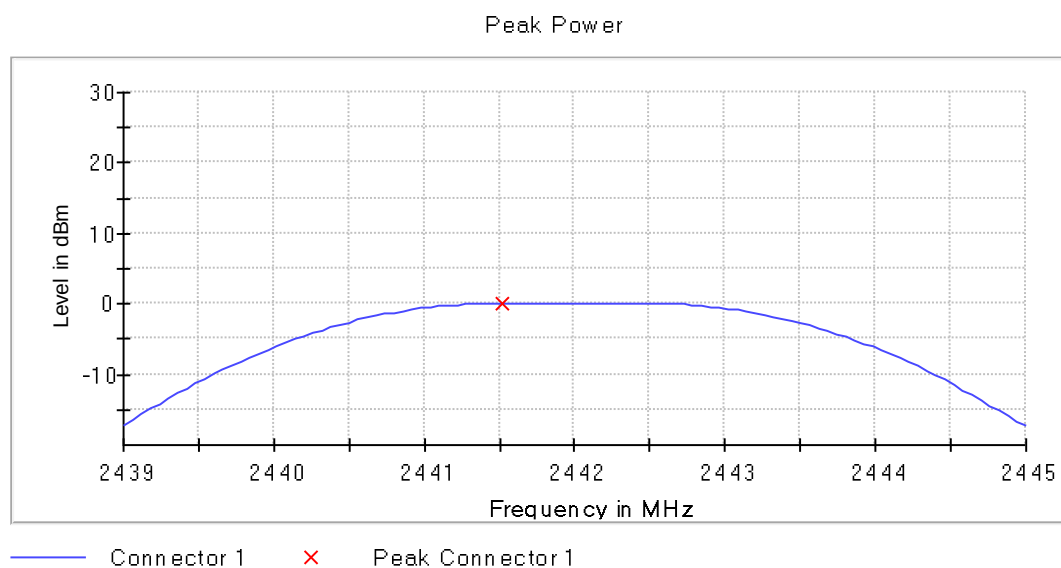
Peak power, high channel



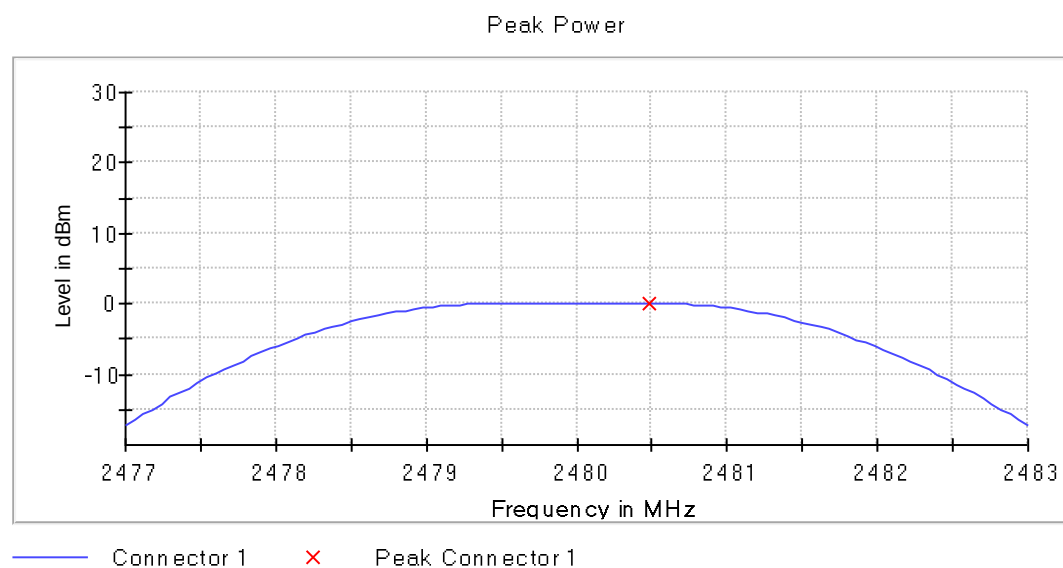
Peak power, low channel 2 Mbps



Peak power, middle channel 2 Mbps



Peak power, high channel 2 Mbps



13. Peak Power Spectral Density

Reference: FCC §15.247(a),(e), ISED RSS-247, Issue 4 (section 5.2)

Test method: KDB 558074 D01 DTS Meas Guidance v05r02 and C63.10-2020+Cor.1-2023 (11.10.2, 14.3.2)

Specification: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Limits
≤ 8 dBm / 3 kHz

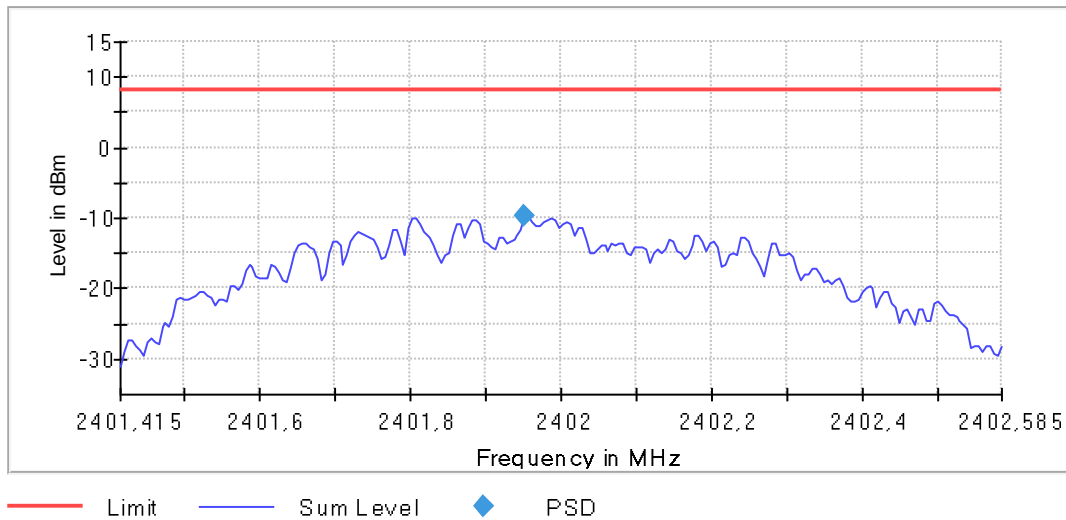
Test procedure
1. EUT set to test mode 2. The analyser is set to DTS channel center frequency with a span of 1.5 times the DTS bandwidth 3. The analyzer is set to 100 kHz with VBW ≥ RBW and the detector is set to peak with max hold 4. After trace has stabilized a marker is set to the envelope maximum 5. If the power spectral density is above the limit the RBW is reduces (not lower than 3 kHz) and the measurement is repeated 6. If the EUT has more than one transmit chain the procedure is repeated for each chain

Summary

Mode / modulation	DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
Bluetooth LE, 1 Mbps	2402.000000	2401.952296	-9.782	8.0	PASS
Bluetooth LE, 1 Mbps	2442.000000	2441.957318	-9.507	8.0	PASS
Bluetooth LE, 1 Mbps	2480.000000	2479.957313	-9.549	8.0	PASS
Bluetooth LE, 2 Mbps	2402.000000	2401.992480	-10.080	8.0	PASS
Bluetooth LE, 2 Mbps	2442.000000	2441.992480	-9.780	8.0	PASS
Bluetooth LE, 2 Mbps	2480.000000	2479.992479	-9.928	8.0	PASS

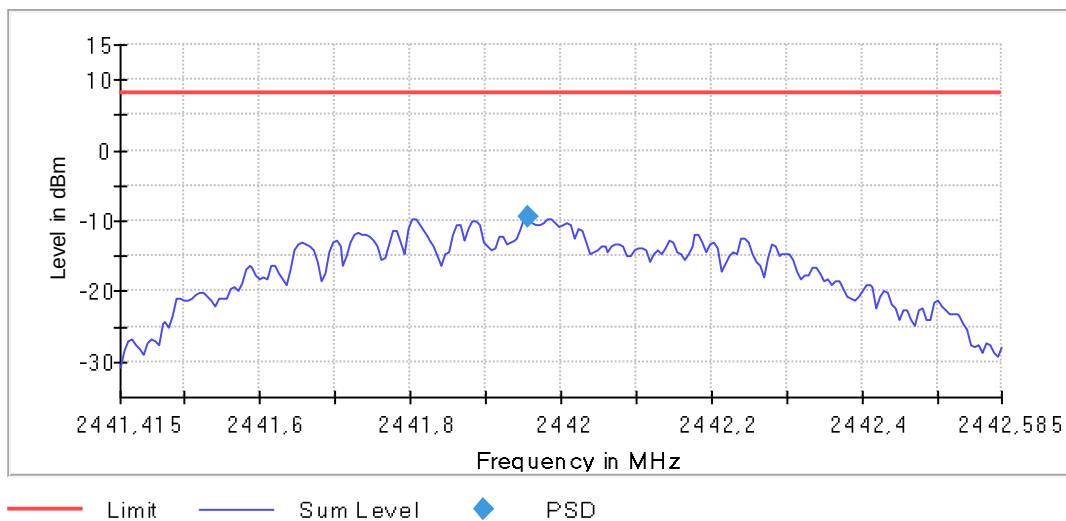
Peak power spectral density, low channel, 1 Mbps

Peak Power Spectral Density



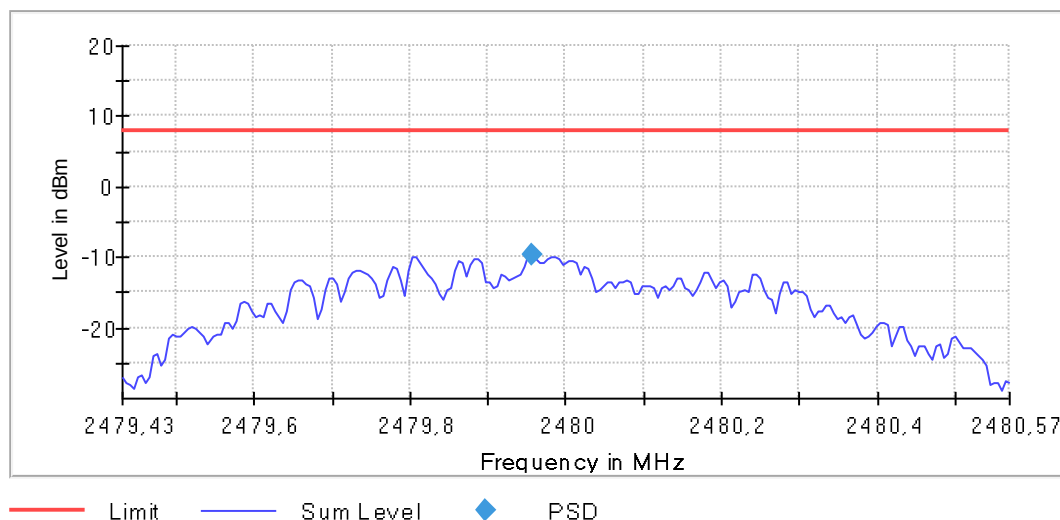
Peak power spectral density, middle channel, 1 Mbps

Peak Power Spectral Density



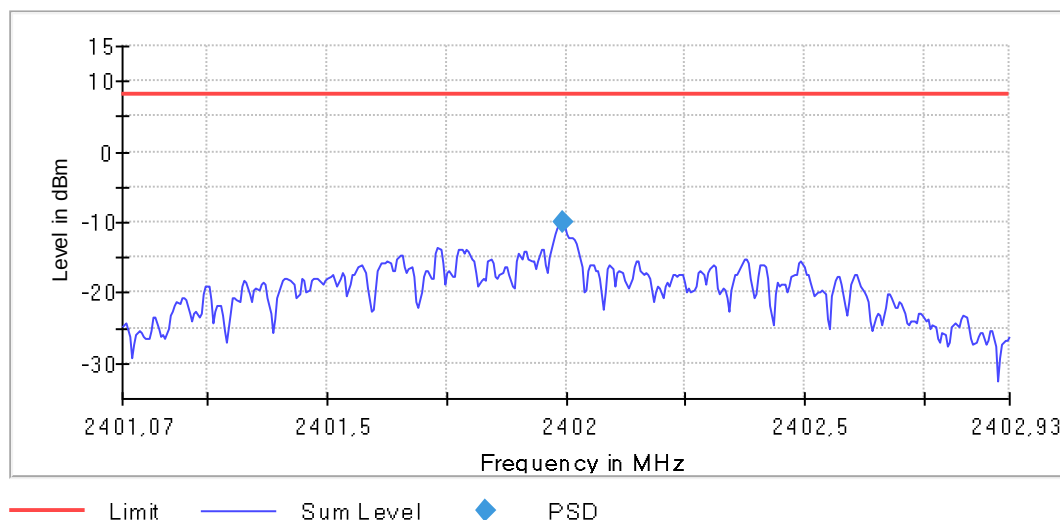
Peak power spectral density, high channel, 1 Mbps:

Peak Power Spectral Density



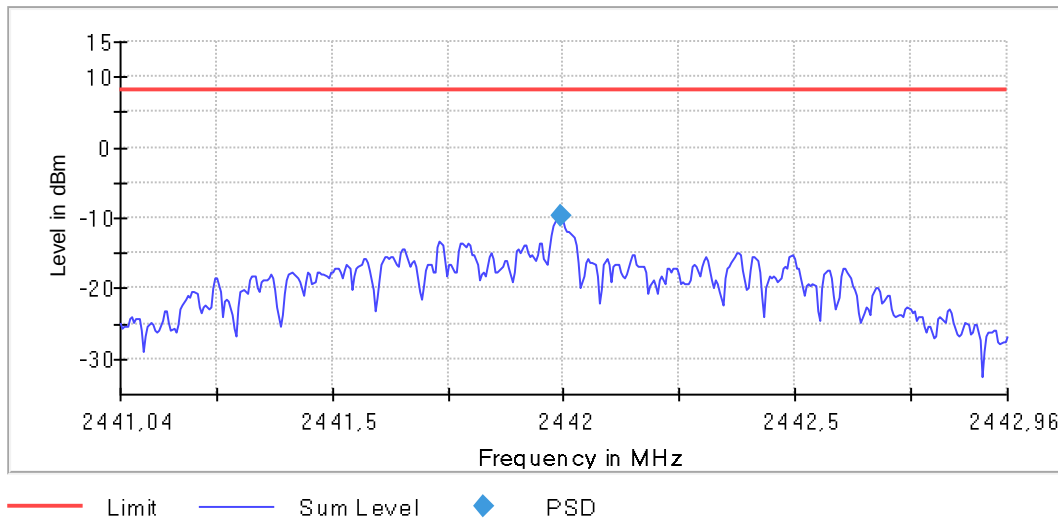
Peak power spectral density, low channel 2Mbps

Peak Power Spectral Density



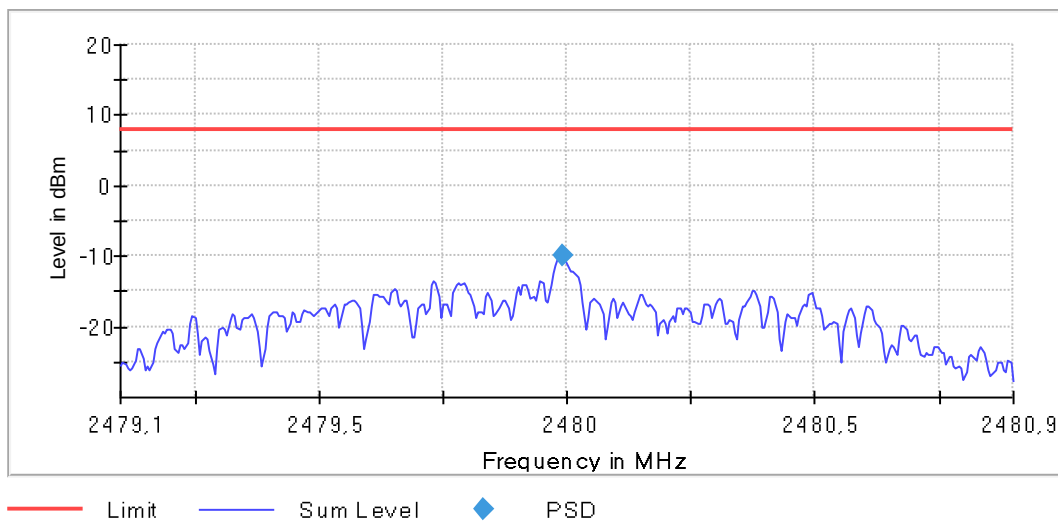
Peak power spectral density, middle channel 2Mbps

Peak Power Spectral Density



Peak power spectral density, high channel 2Mbps

Peak Power Spectral Density



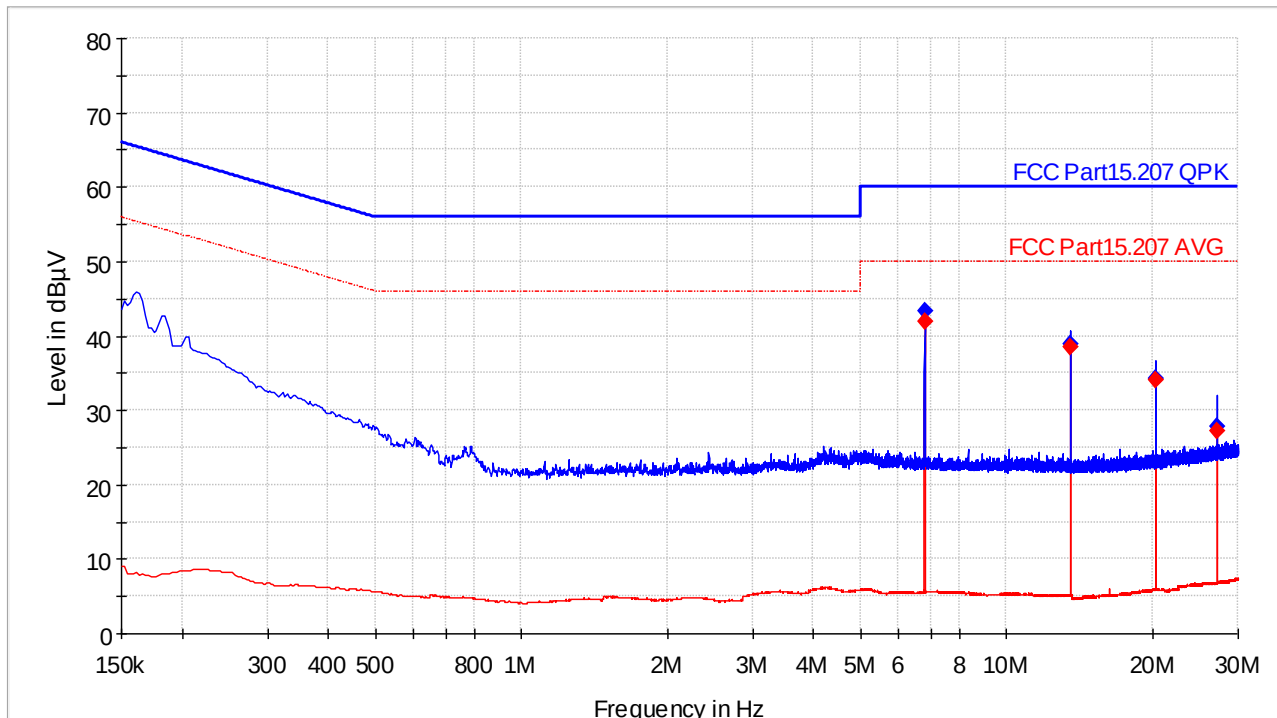
14. AC power line conducted emissions

Reference: FCC §15.207, ISED RSS-247, Issue 4 (section 3.1)

Test method: ANSI C63.10-2020+Cor.1-2023 (6.2)

Limits		
Frequency (MHz)	Quasi-Peak (dBuV)	Average (dBuV)
0.15 – 0.5	66 -56*	56 – 46*
0.5 – 5	56	46
5 - 30	60	50
*Limit decreases linearly with the logarithm of the frequency		

Operation mode(s)	Configuration	Test Verdict
Bluetooth LE TX, 1 Mbps	Mid channel, 2440 MHz	PASS

Conducted emission at the mains power port according to 47 CFR Part 15.207, BLE 2440 MHz, Neutral line
Full Spectrum


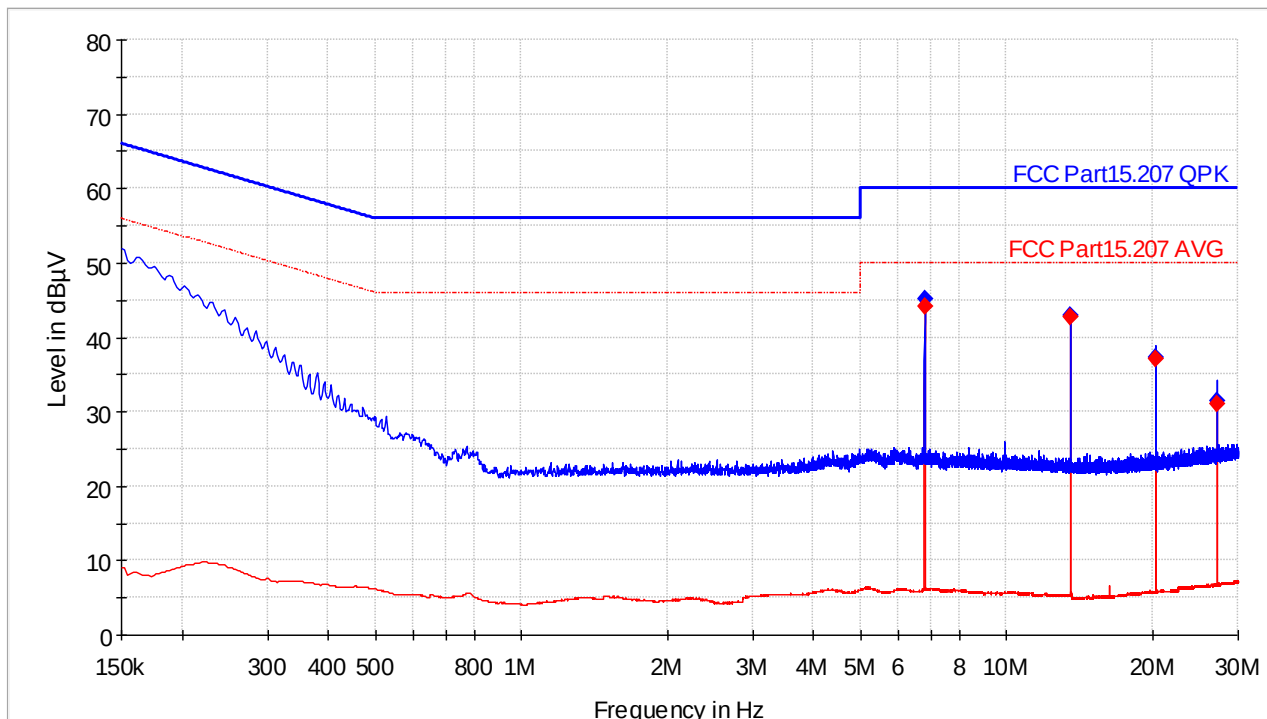
— Preview Result 2-CAV
 — Preview Result 1-PK+
 — FCC Part15.207 QPK
- - - FCC Part15.207 AVG
 ◆ Final Result QPK
 ◆ Final Result CAV

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
6.781	43.42	---	60.0	16.58	15000	9.00	N	ON	10.0	PASS
6.781	---	41.97	50.0	8.03	15000	9.00	N	ON	10.0	PASS
13.560	38.86	---	60.0	21.14	15000	9.00	N	ON	10.1	PASS
13.560	---	38.48	50.0	11.52	15000	9.00	N	ON	10.1	PASS
20.339	---	33.96	50.0	16.04	15000	9.00	N	ON	10.4	PASS
20.339	34.24	---	60.0	25.76	15000	9.00	N	ON	10.4	PASS
27.121	27.89	---	60.0	32.11	15000	9.00	N	ON	10.5	PASS
27.121	---	27.24	50.0	22.76	15000	9.00	N	ON	10.5	PASS

Conducted emission at the mains power port according to 47 CFR Part 15.207, BLE 2440 MHz, Phase line

Full Spectrum



— Preview Result 2-CAV — Preview Result 1-PK+ — FCC Part15.207 QPK
- - - FCC Part15.207 AVG ◆ Final_Result QPK ◆ Final_Result CAV

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
6.781	45.19	---	60.0	14.81	15000	9.00	L1	ON	10.0	PASS
6.781	---	44.05	50.0	5.95	15000	9.00	L1	ON	10.0	PASS
13.560	42.87	---	60.0	17.13	15000	9.00	L1	ON	10.1	PASS
13.560	---	42.69	50.0	7.31	15000	9.00	L1	ON	10.1	PASS
20.339	---	37.12	50.0	12.88	15000	9.00	L1	ON	10.3	PASS
20.339	37.22	---	60.0	22.78	15000	9.00	L1	ON	10.3	PASS
27.121	31.39	---	60.0	28.61	15000	9.00	L1	ON	10.4	PASS
27.121	---	31.08	50.0	18.92	15000	9.00	L1	ON	10.4	PASS

15. Band edge emissions compliance (transmitter)

Reference: FCC §15.247(d), ISED RSS-247, Issue 4 (section 5.5)

Test method: KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2020+Cor.1-2023 (11.13)

Specification: In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Limits	
Power measurement	Out-of-band attenuation (dB)
Peak	20
RMS	30

Limits
1. EUT set to test mode (communication tester is used if needed)
2. Span set around lower band edge and detector is set to peak and max hold
3. Resolution bandwidth is set to 100 kHz
4. Peak emission level(s) within frequency band and outside frequency band is measured
5. Band edge attenuation is determined from level difference

Summary

Mode / modulation	DUT Frequency (MHz)	Result
Bluetooth LE, 1 Mbps	2402.000000	PASS
Bluetooth LE, 1 Mbps	2480.000000	PASS
Bluetooth LE, 2 Mbps	2402.000000	PASS
Bluetooth LE, 2 Mbps	2480.000000	PASS

Measurements, band edge low 1 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.999444	-53.0	27.5	-25.5	PASS
2399.499722	-53.0	27.6	-25.5	PASS
2399.549750	-53.3	27.9	-25.5	PASS
2399.049472	-53.4	27.9	-25.5	PASS
2399.599778	-53.6	28.1	-25.5	PASS
2398.949416	-53.7	28.3	-25.5	PASS
2399.099500	-53.8	28.3	-25.5	PASS
2399.649805	-53.9	28.5	-25.5	PASS
2399.449694	-54.0	28.6	-25.5	PASS
2398.899389	-54.3	28.9	-25.5	PASS
2398.549194	-55.0	29.5	-25.5	PASS
2399.699833	-55.1	29.6	-25.5	PASS
2400.000000	-55.1	29.6	-25.5	PASS
2399.149528	-55.1	29.6	-25.5	PASS
2398.599222	-55.2	29.8	-25.5	PASS

Measurements, band edge high 1 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.051672	-53.6	28.4	-25.3	PASS
2483.600304	-53.9	28.7	-25.3	PASS
2483.650456	-54.1	28.8	-25.3	PASS
2484.101824	-54.4	29.2	-25.3	PASS
2484.001520	-54.5	29.3	-25.3	PASS
2483.951368	-55.0	29.8	-25.3	PASS
2483.901216	-55.5	30.3	-25.3	PASS
2483.851064	-55.7	30.4	-25.3	PASS
2484.603343	-55.9	30.7	-25.3	PASS
2483.550152	-55.9	30.7	-25.3	PASS
2484.151976	-56.0	30.7	-25.3	PASS
2484.653495	-56.1	30.8	-25.3	PASS
2483.700608	-56.1	30.9	-25.3	PASS
2483.800912	-56.6	31.4	-25.3	PASS
2484.753799	-56.6	31.4	-25.3	PASS

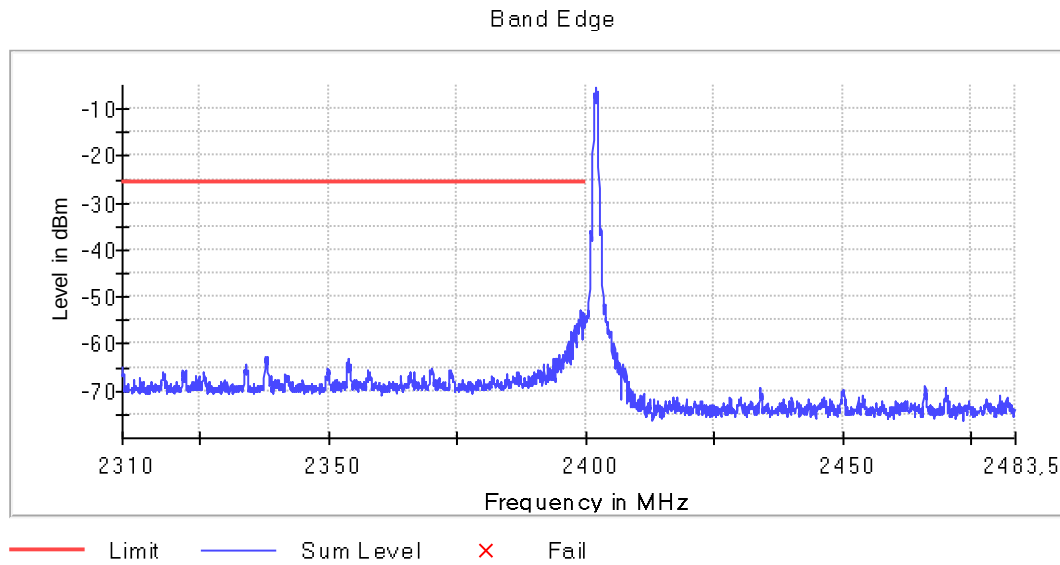
Measurements, band edge low 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2400.000000	-37.2	11.8	-25.5	PASS
2399.949972	-37.5	12.0	-25.5	PASS
2399.899944	-39.8	14.4	-25.5	PASS
2399.849917	-43.0	17.6	-25.5	PASS
2399.799889	-44.2	18.7	-25.5	PASS
2399.749861	-44.6	19.2	-25.5	PASS
2399.699833	-47.5	22.1	-25.5	PASS
2399.649805	-48.8	23.3	-25.5	PASS
2399.599778	-51.3	25.9	-25.5	PASS
2399.099500	-51.7	26.2	-25.5	PASS
2399.149528	-52.1	26.7	-25.5	PASS
2399.049472	-52.3	26.8	-25.5	PASS
2399.549750	-52.7	27.3	-25.5	PASS
2399.199555	-52.8	27.4	-25.5	PASS
2398.999444	-53.7	28.2	-25.5	PASS

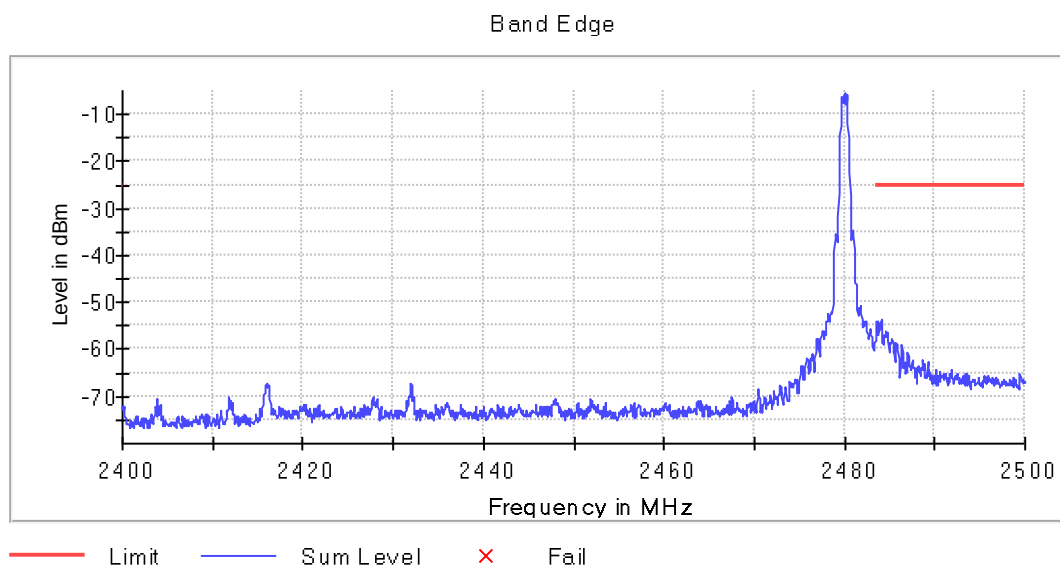
Measurements, band edge high 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.101824	-54.1	28.8	-25.3	PASS
2484.151976	-54.3	29.0	-25.3	PASS
2483.901216	-54.5	29.2	-25.3	PASS
2483.951368	-54.5	29.3	-25.3	PASS
2483.600304	-54.9	29.6	-25.3	PASS
2483.851064	-55.2	29.9	-25.3	PASS
2484.001520	-55.2	29.9	-25.3	PASS
2484.051672	-55.4	30.1	-25.3	PASS
2484.553191	-55.6	30.4	-25.3	PASS
2484.452888	-56.1	30.8	-25.3	PASS
2484.503040	-56.3	31.0	-25.3	PASS
2483.800912	-56.4	31.1	-25.3	PASS
2483.550152	-56.5	31.3	-25.3	PASS
2483.750760	-56.6	31.3	-25.3	PASS
2484.402736	-56.6	31.4	-25.3	PASS

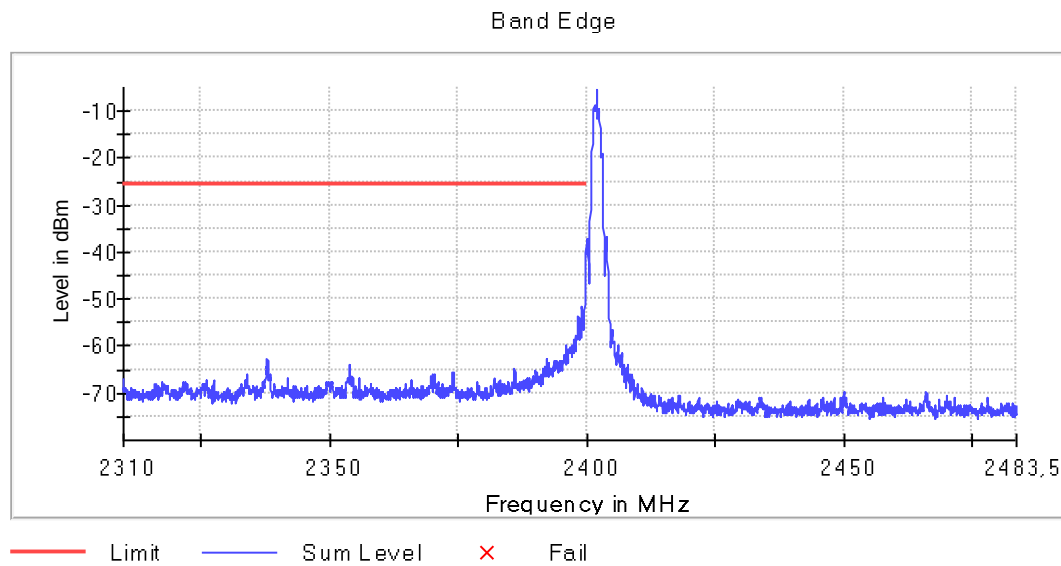
Band edge, low channel 1 Mbps



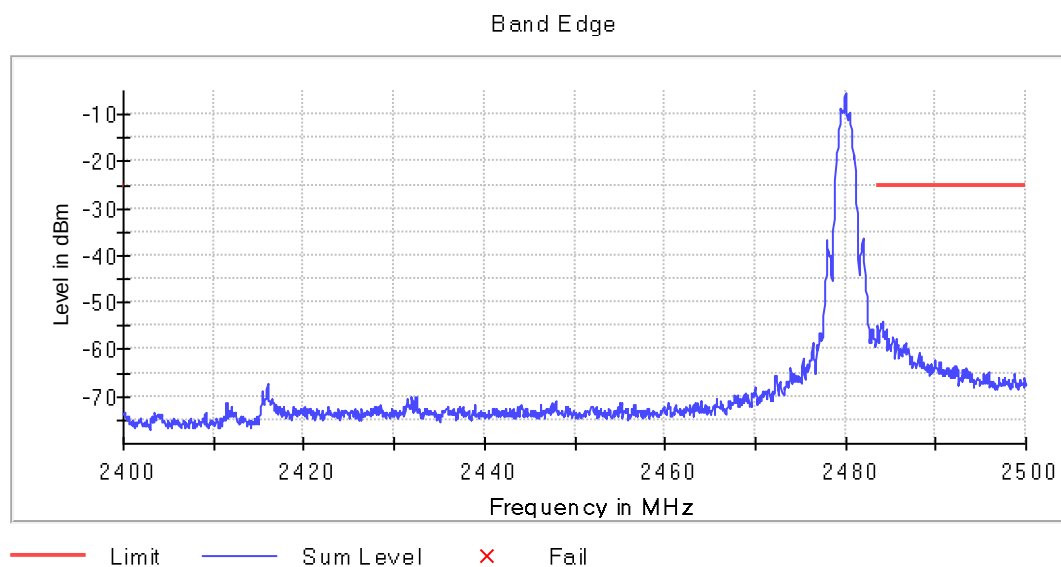
Band edge, high channel 1 Mbps



Band edge, low channel 2 Mbps



Band edge, high channel 2 Mbps



16. Tx spurious emissions, conducted

Reference: FCC §15.247(d), ISED RSS-247, Issue 4 (section 5.5)

Test method: KDB 558074 D01 DTS Meas Guidance v05r02 8.5 and ANSI C63.10-2020+Cor.1-2023 (11.11.2 & 11.11.3)

Limits	
Power measurement	Out-of-band attenuation (dB)
Peak	20
RMS	30

Test procedure
1. EUT set to test mode (communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

Mode / modulation	DUT Frequency (MHz)	Result
Bluetooth LE, 1 Mbps	2402.000000	PASS
Bluetooth LE, 1 Mbps	2440.000000	PASS
Bluetooth LE, 1 Mbps	2480.000000	PASS
Bluetooth LE, 2 Mbps	2402.000000	PASS
Bluetooth LE, 2 Mbps	2440.000000	PASS
Bluetooth LE, 2 Mbps	2480.000000	PASS

Pre Measurements, low channel 1 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4803.154762	-45.7	19.5	-26.1
7202.797619	-50.8	24.7	-26.1
2523.494048	-62.1	36.0	-26.1
2280.000000	-62.4	36.2	-26.1
2553.489583	-62.8	36.6	-26.1
2250.000000	-63.6	37.5	-26.1
2513.495536	-64.5	38.3	-26.1
2290.000000	-64.6	38.5	-26.1
2340.000000	-65.3	39.1	-26.1
2260.000000	-66.5	40.4	-26.1
2270.000000	-66.6	40.4	-26.1
2533.492560	-66.7	40.5	-26.1
2360.000000	-66.8	40.7	-26.1
2150.000000	-67.1	41.0	-26.1
19710.936012	-67.2	41.1	-26.1

Pre Measurements, middle channel 1 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4883.142857	-41.2	13.9	-27.3
7322.779762	-49.7	22.4	-27.3
2563.488095	-62.5	35.2	-27.3
2553.489583	-62.8	35.5	-27.3
2320.000000	-63.4	36.1	-27.3
2290.000000	-63.8	36.5	-27.3
2593.483631	-64.2	36.9	-27.3
2380.000000	-64.4	37.1	-27.3
2330.000000	-64.5	37.2	-27.3
2340.000000	-65.3	37.9	-27.3
2573.486607	-65.4	38.0	-27.3

2300.000000	-65.6	38.3	-27.3
2503.497024	-65.8	38.4	-27.3
2190.000000	-65.9	38.6	-27.3
2583.485119	-66.1	38.8	-27.3

Pre Measurements, top channel 1 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4953.132440	-40.5	13.7	-26.8
7432.763393	-50.9	24.1	-26.8
7442.761905	-55.9	29.1	-26.8
19790.924107	-58.3	31.5	-26.8
19720.934524	-58.4	31.6	-26.8
19690.938988	-58.5	31.7	-26.8
19730.933036	-59.0	32.2	-26.8
19680.940476	-59.0	32.2	-26.8
19670.941964	-59.0	32.3	-26.8
19660.943452	-59.1	32.3	-26.8
19770.927083	-59.2	32.4	-26.8
19740.931548	-59.2	32.4	-26.8
19710.936012	-59.3	32.5	-26.8
19780.925595	-59.4	32.6	-26.8
19750.930060	-59.4	32.6	-26.8

Pre Measurements, low channel 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4803.154762	-46.0	20.3	-25.7
7202.797619	-47.4	21.7	-25.7
2280.000000	-61.7	36.0	-25.7
2553.489583	-64.4	38.7	-25.7
2513.495536	-64.8	39.1	-25.7
2523.494048	-64.9	39.2	-25.7
2340.000000	-65.8	40.1	-25.7
2260.000000	-66.9	41.2	-25.7
2290.000000	-67.0	41.3	-25.7
2250.000000	-67.1	41.3	-25.7
19740.931548	-67.4	41.7	-25.7
2150.000000	-67.4	41.7	-25.7
2573.486607	-67.5	41.8	-25.7
2623.479167	-67.6	41.9	-25.7
19700.937500	-67.6	41.9	-25.7

Pre Measurements, middle channel 2 Mbps

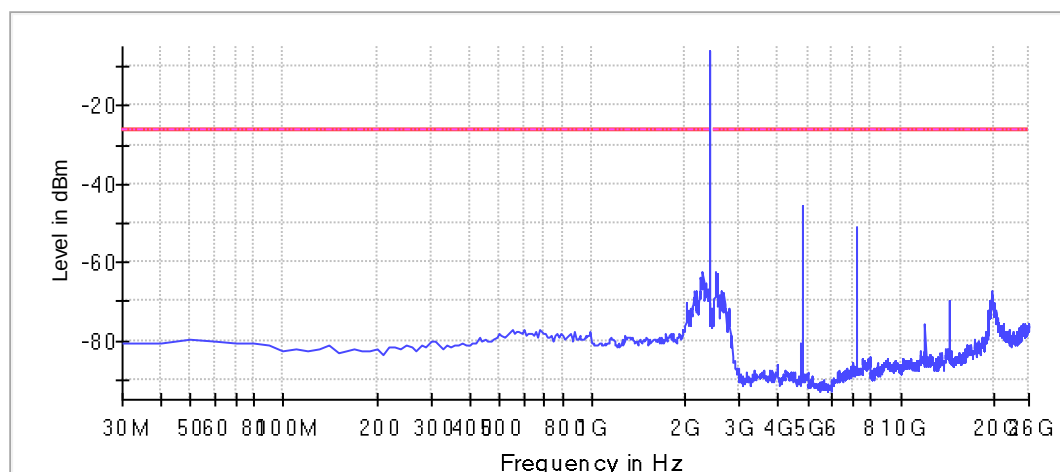
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4883.142857	-41.9	11.8	-30.1
7322.779762	-54.1	24.0	-30.1
2320.000000	-63.0	32.9	-30.1
2563.488095	-63.8	33.7	-30.1
2290.000000	-64.0	33.9	-30.1
2330.000000	-65.4	35.3	-30.1
2300.000000	-65.5	35.4	-30.1
2503.497024	-65.5	35.4	-30.1
4873.144345	-65.7	35.6	-30.1
2310.000000	-65.9	35.8	-30.1
2190.000000	-66.2	36.1	-30.1
2593.483631	-66.4	36.3	-30.1
2380.000000	-66.5	36.4	-30.1
2583.485119	-66.9	36.8	-30.1
2340.000000	-67.0	36.9	-30.1

Pre Measurements, top channel 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4953.132440	-42.3	16.6	-25.7
7432.763393	-55.5	29.9	-25.7
19790.924107	-56.9	31.3	-25.7
19810.921131	-57.9	32.2	-25.7
7442.761905	-57.9	32.2	-25.7
19670.941964	-58.2	32.5	-25.7
19700.937500	-58.2	32.5	-25.7
19730.933036	-58.4	32.7	-25.7
19710.936012	-58.5	32.8	-25.7
19770.927083	-58.5	32.8	-25.7
19780.925595	-58.6	32.9	-25.7
19740.931548	-58.7	33.1	-25.7
19680.940476	-58.8	33.1	-25.7
19750.930060	-59.0	33.3	-25.7
19720.934524	-59.2	33.5	-25.7

Low channel

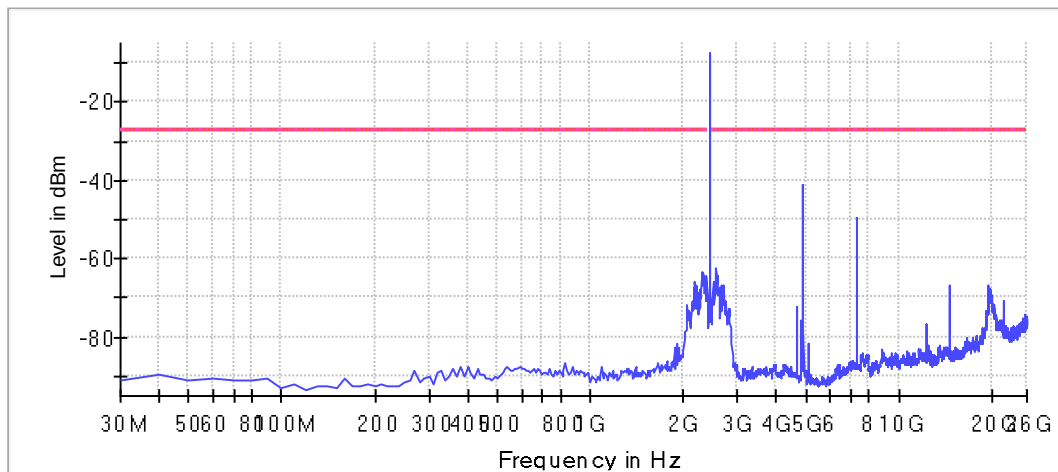
Spurious



— Limit — Sum Level - - - Threshold × Critical × Final Critical

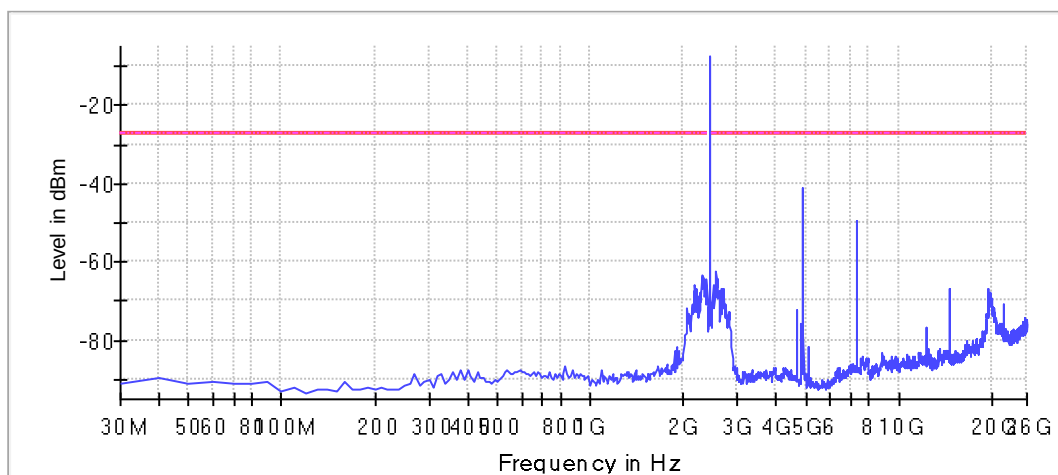
Middle channel

Spurious



— Limit — Sum Level - - - Threshold × Critical × Final Critice

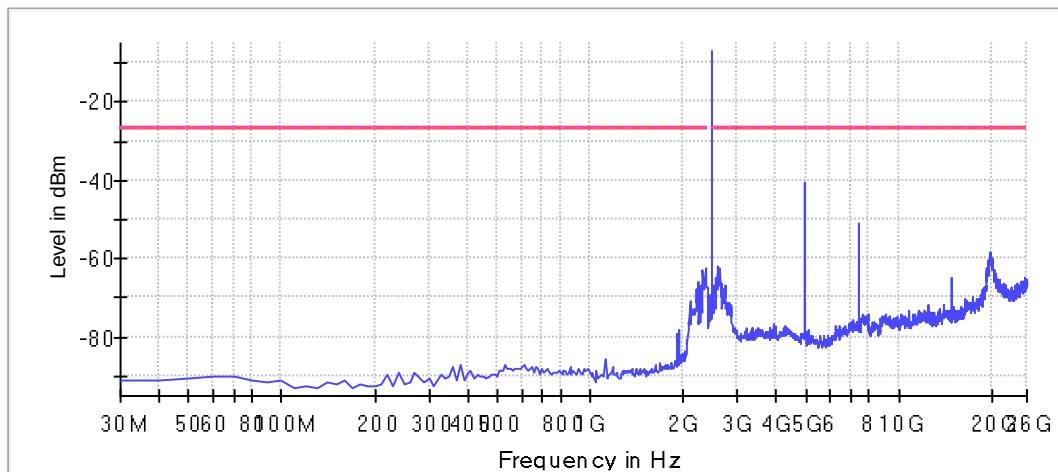
Spurious



— Limit — Sum Level - - - Threshold × Critical × Final Critice

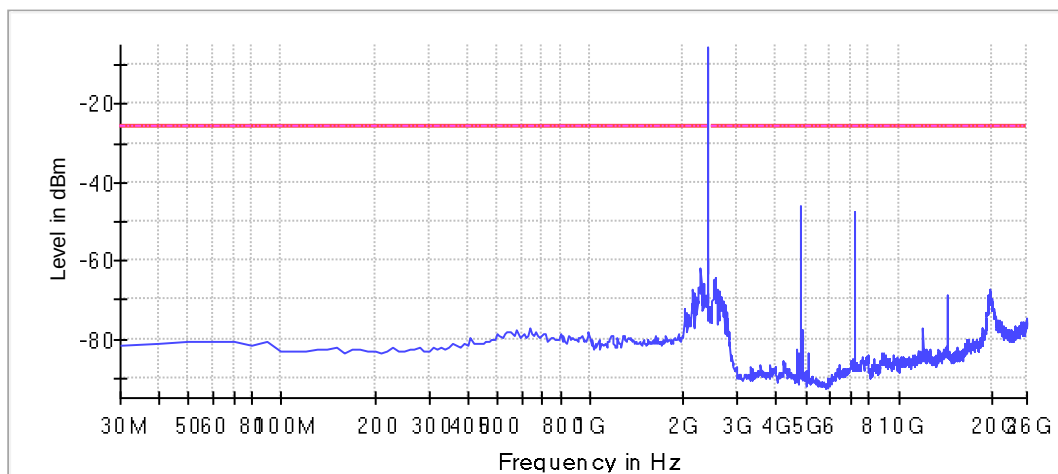
High channel

Spurious



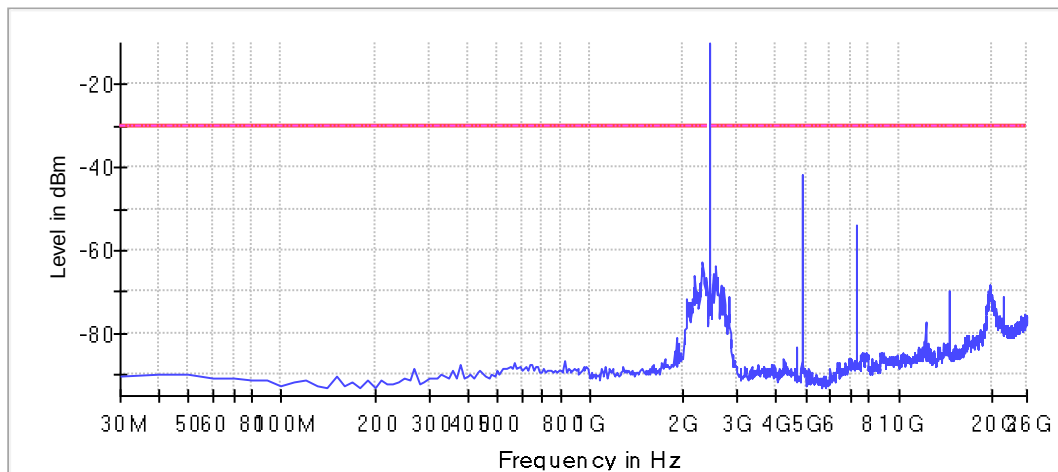
Low channel, 2 Mbps

Spurious



Mid channel, 2 Mbps

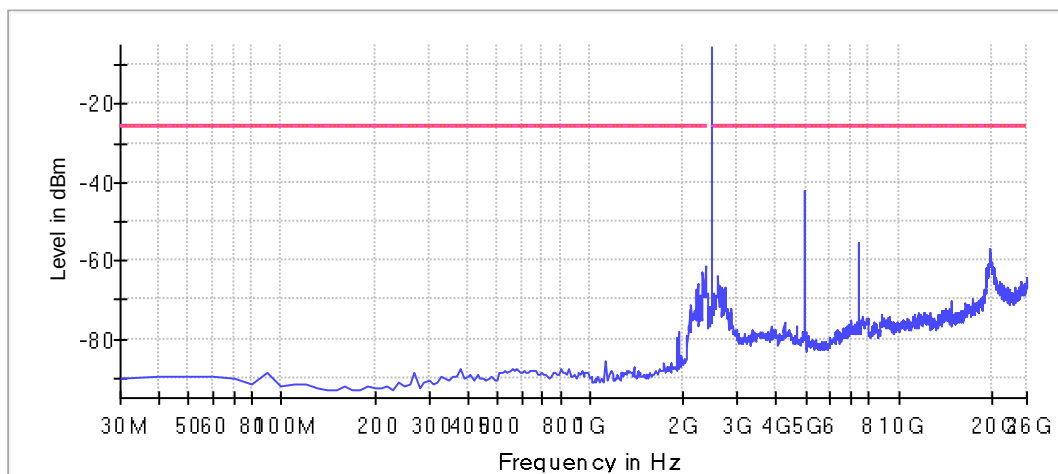
Spurious



— Limit — Sum Level - - - Threshold × Critical × Final Critice

High channel, 2 Mbps

Spurious



— Limit — Sum Level - - - Threshold × Critical × Final Critice

17. Emissions in restricted frequency bands

Reference: FCC §15.247(d), ISSED RSS-247, Issue 4 (section 6.2)

Test method: KDB 558074 D01 DTS Meas Guidance v05r02 8.6 and ANSI C63.10-2020+Cor.1-2023 (11.12)

Limits	
Power measurement	Out-of-band attenuation (dB)
Peak	according to FCC §15.209 and FCC §15.205

Test procedure
1. EUT set to test mode (communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 300 Hz 4. Markers are set to peak emission levels outside frequency band

Summary		
Mode / modulation	Frequency (MHz)	Bandwidth (MHz)
Bluetooth LE, 1 Mbps	2402.000000	PASS
Bluetooth LE, 1 Mbps	2440.000000	PASS
Bluetooth LE, 1 Mbps	2480.000000	PASS
Bluetooth LE, 2 Mbps	2402.000000	PASS
Bluetooth LE, 2 Mbps	2440.000000	PASS
Bluetooth LE, 2 Mbps	2480.000000	PASS

Pre Measurements, low channel

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4804.585861	-43.6	22.4	-21.2
4804.085843	-43.6	22.4	-21.2
4803.585824	-43.7	22.5	-21.2
4803.085806	-43.8	22.6	-21.2
4805.085880	-46.0	24.8	-21.2
4802.585787	-47.0	25.8	-21.2
4805.585898	-54.2	33.0	-21.2
4802.085769	-55.4	34.2	-21.2
2389.996427	-56.5	35.3	-21.2
19732.686634	-56.9	35.7	-21.2
19804.190210	-57.3	36.1	-21.2
19748.687434	-57.4	36.2	-21.2
19741.687084	-57.4	36.2	-21.2
19804.690235	-57.6	36.4	-21.2
19692.684634	-57.8	36.6	-21.2

Pre Measurements, middle channel

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4883.588784	-40.9	19.7	-21.2
4883.088765	-40.9	19.7	-21.2
4884.588821	-41.0	19.8	-21.2

4884.088802	-41.1	19.9	-21.2
4885.088839	-43.5	22.3	-21.2
4882.588747	-44.5	23.3	-21.2
7325.179103	-48.8	27.6	-21.2
7326.679158	-49.0	27.8	-21.2
7325.679121	-49.1	27.9	-21.2
7326.179140	-49.3	28.1	-21.2
7327.179177	-49.5	28.3	-21.2
7324.679084	-49.6	28.4	-21.2
4885.588858	-51.3	30.1	-21.2
4882.088728	-53.4	32.2	-21.2
7327.679195	-54.2	33.0	-21.2

Pre Measurements, top channel

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4960.591632	-40.6	19.4	-21.2
4960.091614	-40.6	19.4	-21.2
4959.591595	-40.7	19.5	-21.2
4959.091577	-40.8	19.6	-21.2
4961.091651	-42.8	21.6	-21.2
4958.591558	-44.4	23.2	-21.2
2488.500185	-49.2	28.0	-21.2
7439.183320	-49.2	28.0	-21.2
7440.683375	-49.6	28.4	-21.2
7439.683338	-49.7	28.5	-21.2
7440.183357	-49.8	28.6	-21.2
7441.183394	-50.1	28.9	-21.2
7438.683301	-50.4	29.2	-21.2
4961.591669	-51.8	30.6	-21.2
4958.091540	-53.6	32.4	-21.2

Pre Measurements, low channel 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4804.585861	-43.5	22.3	-21.2
4805.085880	-43.5	22.3	-21.2
4804.085843	-43.7	22.5	-21.2
4803.585824	-43.7	22.5	-21.2
4802.585787	-43.7	22.5	-21.2
4803.085806	-43.7	22.5	-21.2
4805.585898	-46.3	25.1	-21.2
4802.085769	-47.1	25.9	-21.2
4801.585750	-54.6	33.4	-21.2
4806.085917	-54.7	33.5	-21.2
19721.686084	-56.0	34.8	-21.2
19771.688584	-57.9	36.7	-21.2
19728.186409	-58.1	36.9	-21.2
19726.686334	-58.1	36.9	-21.2
19729.686484	-58.1	36.9	-21.2

Pre Measurements, middle channel 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4883.142857	-41.9	11.8	-30.1
7322.779762	-54.1	24.0	-30.1
2320.000000	-63.0	32.9	-30.1
2563.488095	-63.8	33.7	-30.1
2290.000000	-64.0	33.9	-30.1

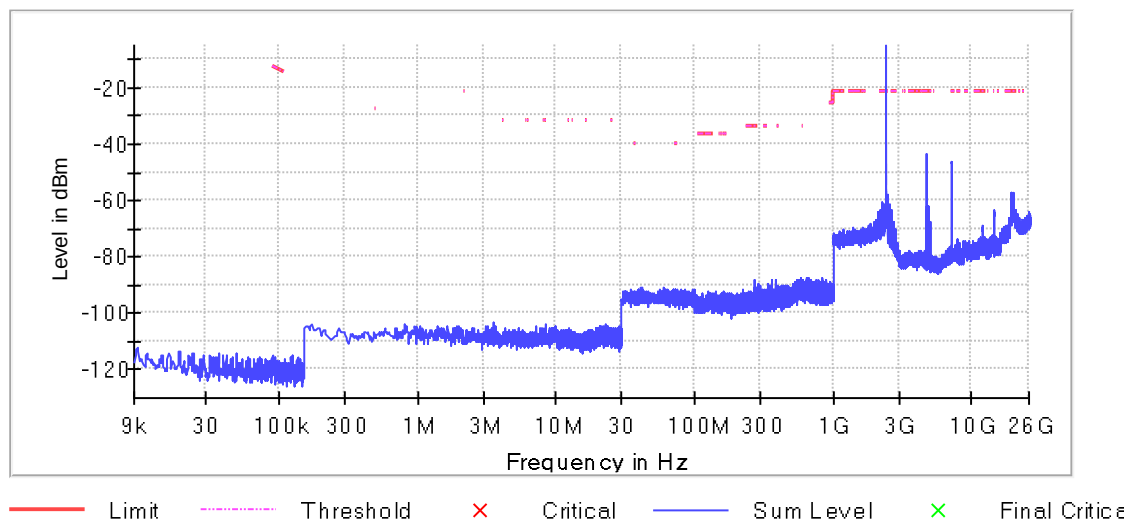
2330.000000	-65.4	35.3	-30.1
2300.000000	-65.5	35.4	-30.1
2503.497024	-65.5	35.4	-30.1
4873.144345	-65.7	35.6	-30.1
2310.000000	-65.9	35.8	-30.1
2190.000000	-66.2	36.1	-30.1
2593.483631	-66.4	36.3	-30.1
2380.000000	-66.5	36.4	-30.1
2583.485119	-66.9	36.8	-30.1
2340.000000	-67.0	36.9	-30.1

Pre Measurements, top channel 2 Mbps

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4958.591558	-41.0	19.8	-21.2
4959.091577	-41.3	20.1	-21.2
4960.591632	-43.0	21.8	-21.2
4959.591595	-43.1	21.9	-21.2
4961.091651	-43.1	21.9	-21.2
4960.091614	-43.4	22.2	-21.2
4961.591669	-46.4	25.2	-21.2
2483.500000	-46.8	25.6	-21.2
7438.683301	-49.6	28.4	-21.2
7441.683412	-49.6	28.4	-21.2
7438.183283	-49.6	28.4	-21.2
7441.183394	-49.7	28.5	-21.2
4958.091540	-51.0	29.8	-21.2
2484.500037	-51.1	29.9	-21.2
7440.683375	-51.2	30.0	-21.2

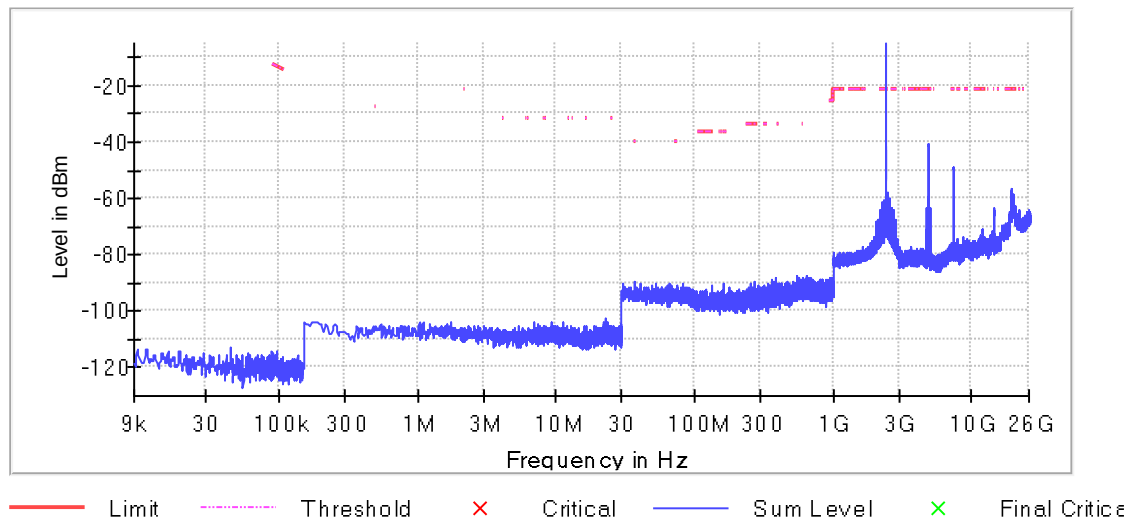
Low channel 1 Mbps

Restricted Band



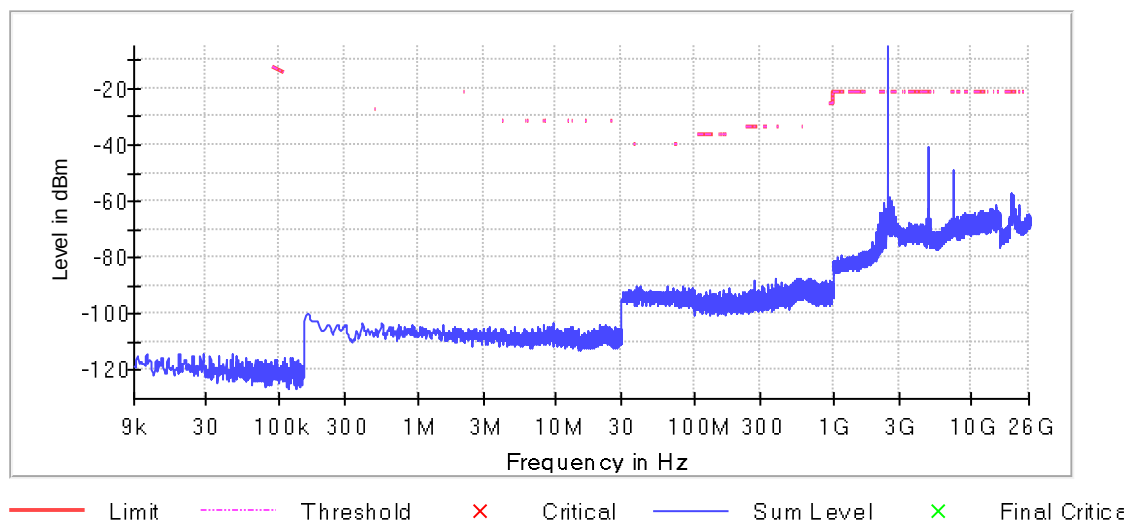
Middle channel 1 Mbps

Restricted Band



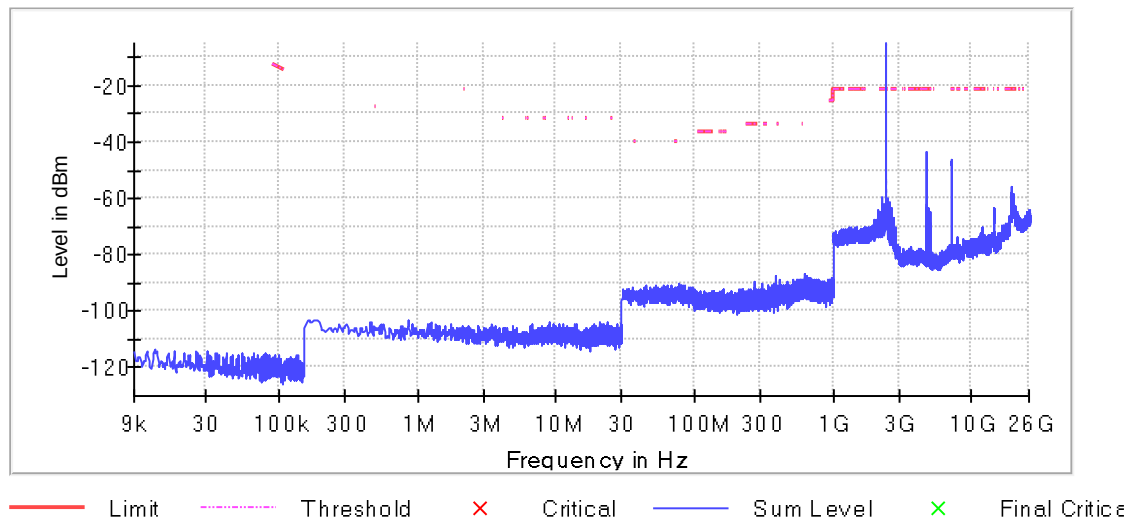
High channel 1 Mbps

Restricted Band



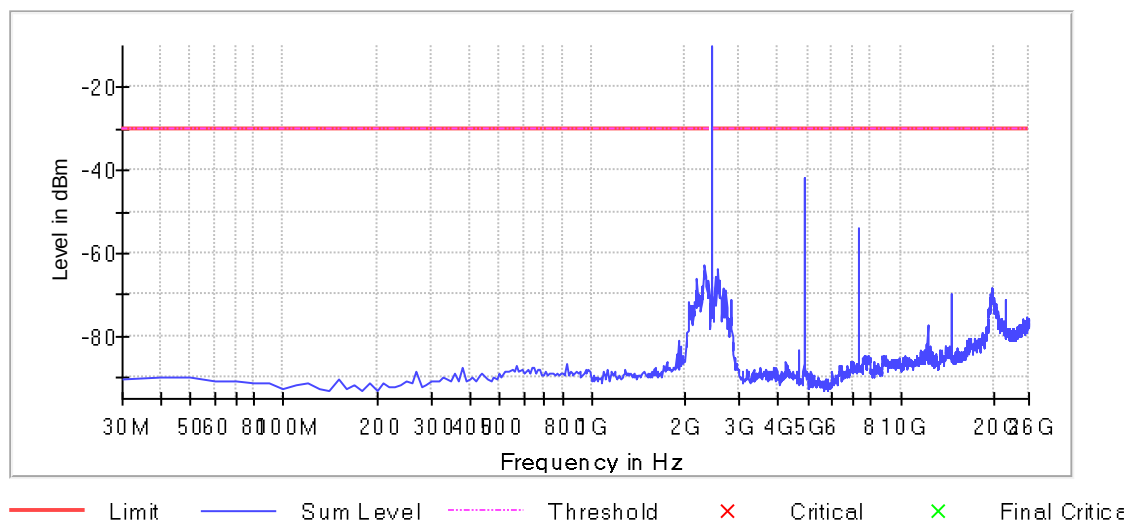
Low channel 2 Mbps

Restricted Band



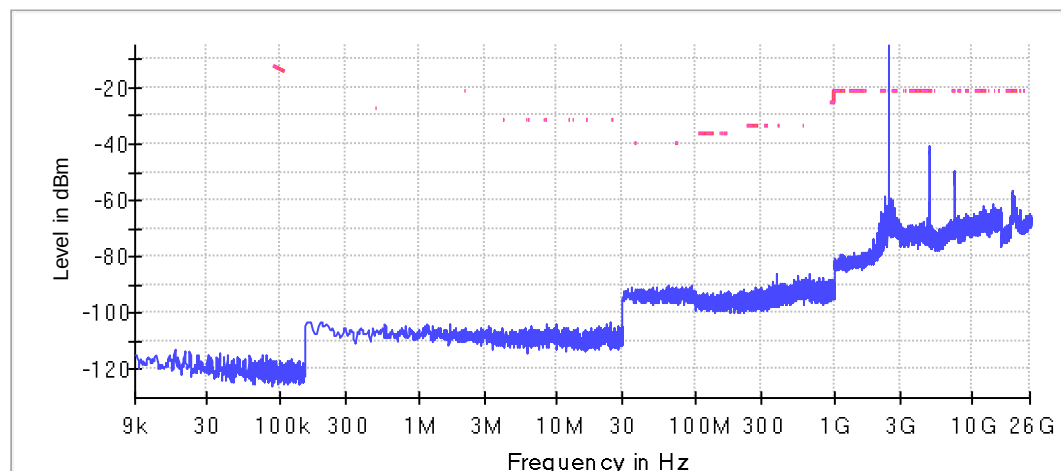
Middle channel 2 Mbps

Spurious



High channel 2 Mbps

Restricted Band



— Limit - - - - - Threshold x Critical — Sum Level x Final Critice

18. Tx spurious emissions, radiated

Reference: FCC §15.247(d), FCC §15.209, ISSED RSS-Gen Issue 5 A2 (section 6.13)

Test method: KDB 558074 D01 DTS Meas Guidance v05r02 8.5 and ANSI C63.10-2020+Cor.1-2023 (6.4, 6.5, 6.6 & 11.12)

Specification: Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Limits				
Frequency range (MHz)	Detector	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.09	Average	2400/F(kHz)	-	300
0.09 – 0.110	Quasi-Peak	2400/F(kHz)	-	300
0.110 – 0.490	Average	2400/F(kHz)	-	300
0.490 – 1.705	Quasi-Peak	24000/F(kHz)	-	30
1.705 – 30.0	Quasi-Peak	30	-	30
30 - 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 - 1000	Quasi-Peak	500	54	3
>1000	Average	500	54	3

Test procedure 30 MHz -1 GHz

1. EUT is placed on a non conducting support at the center of a turn table 0.8m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360 degrees (orientation varied), measurements were made in both horizontal and vertical planes of polarization
5. Found peak values were further maximized by adjusting turntable position $\pm 22,5$ degrees around detected value and scanning the antenna height 1 to 4m
6. For maximized values, final measurement was done with the corresponding final detector.

Test procedure > 1 GHz

1. EUT is placed on a non conducting support at the center of a turn table 1.5m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360 degrees (orientation varied), measurements were made in both horizontal and vertical planes of polarization.
5. Found peak values were further maximized by adjusting turntable position $\pm 22,5$ degrees around detected value and scanning the antenna height 1 to 4m
6. For maximized values, final measurement was done with the corresponding final detector.

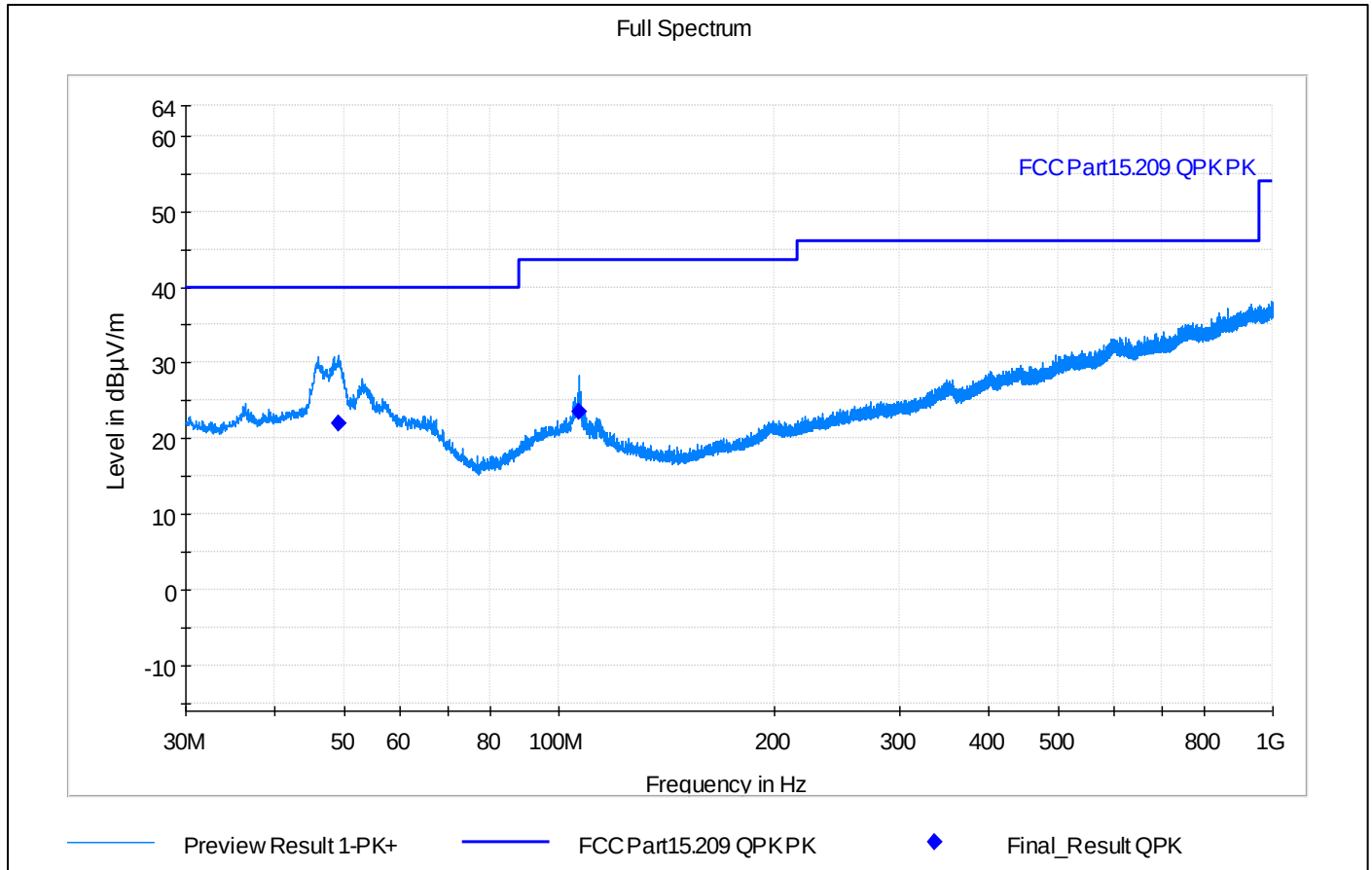
For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function. RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Operation mode(s)	Configuration	Test Verdict
Bluetooth LE TX, 1 Mbps	Low channel, 2402 MHz	PASS
Bluetooth LE TX, 1 Mbps	Mid channel, 2440 MHz	PASS
Bluetooth LE TX, 1 Mbps	High channel, 2480 MHz	PASS

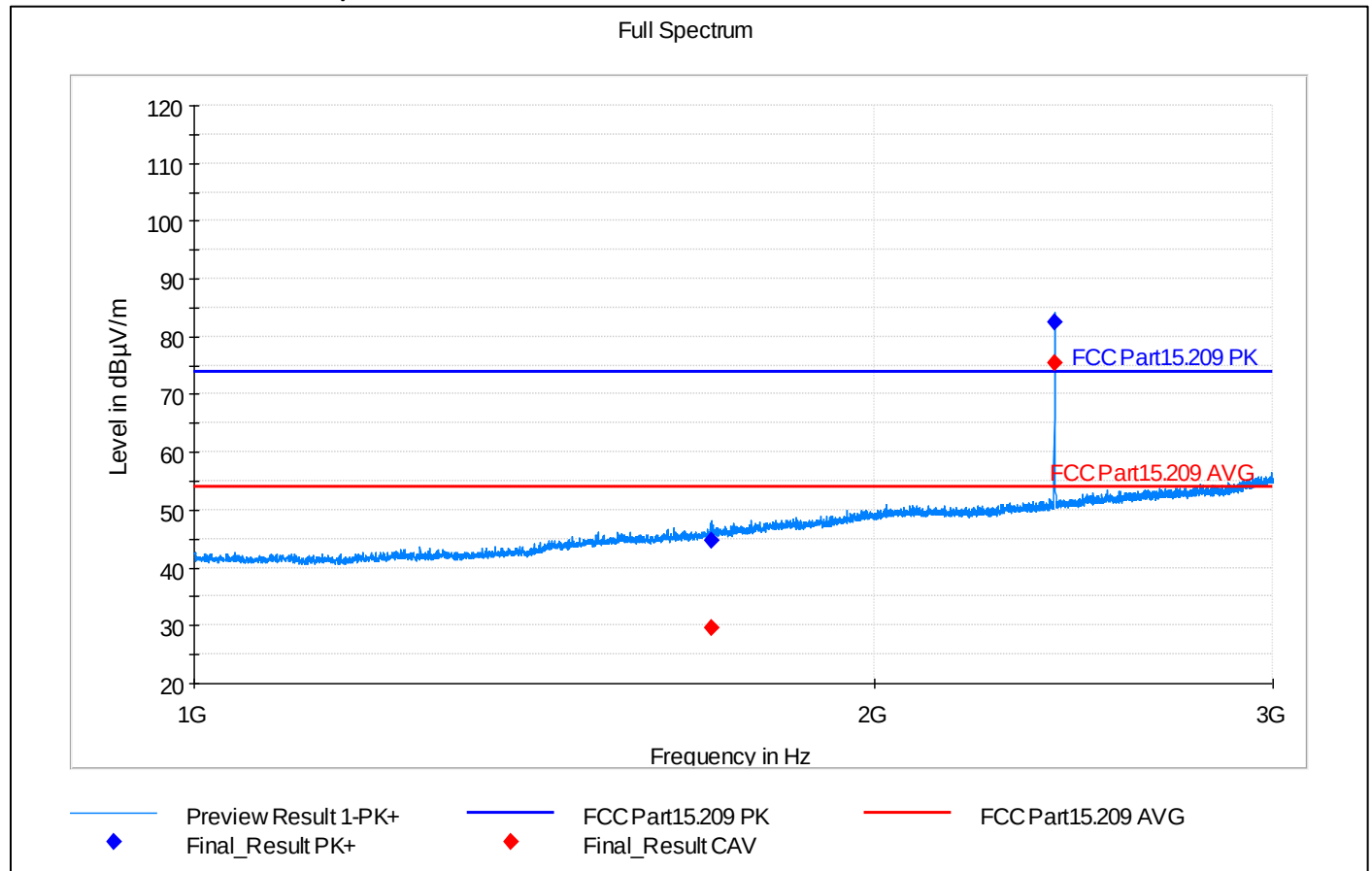
Bluetooth LE TX, 2 Mbps	Low channel, 2402 MHz	PASS
Bluetooth LE TX, 2 Mbps	Mid channel, 2440 MHz	PASS
Bluetooth LE TX, 2 Mbps	High channel, 2480 MHz	PASS

Low channel, 30 MHz – 1 GHz, 1 Mbps



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
49.050	22.06	40.0	17.94	15000	120	100.0	V	104	90	21.1	PASS
106.710	23.50	43.5	20.00	15000	120	102.0	V	168	90	19.5	PASS

Low channel, 1 – 3 GHz, 1 Mbps


Note: Frequency 2401,750 MHz is excluded from spurious domain measurements and ignored. See table below.

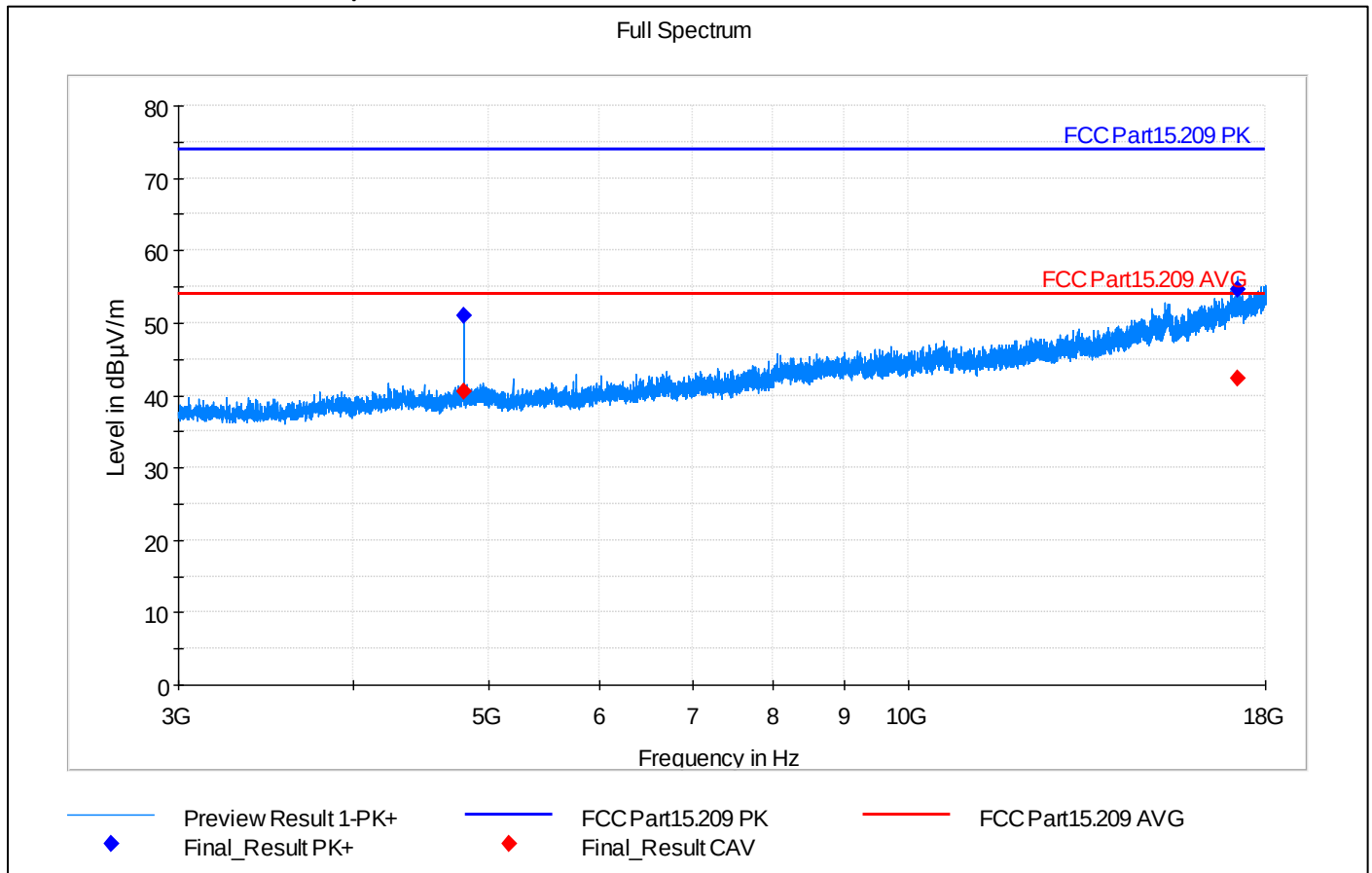
All CAverage values contain correction factor of 4.30 dB, according ANSI C63.10 section 11.12.2.5.2.

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
1693.000	44.59	---	74.0	29.41	100	1000	149.0	V	322	0	34.8	PASS
1693.000	---	29.53	54.0	24.47	100	1000	149.0	V	322	0	34.8	PASS
2402.250	82.43	---	74.0	-8.43	100	1000	143.0	H	131	0	38.6	Fundamental
2402.250	---	75.50	54.0	-21.50	100	1000	143.0	H	131	0	38.6	Fundamental

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

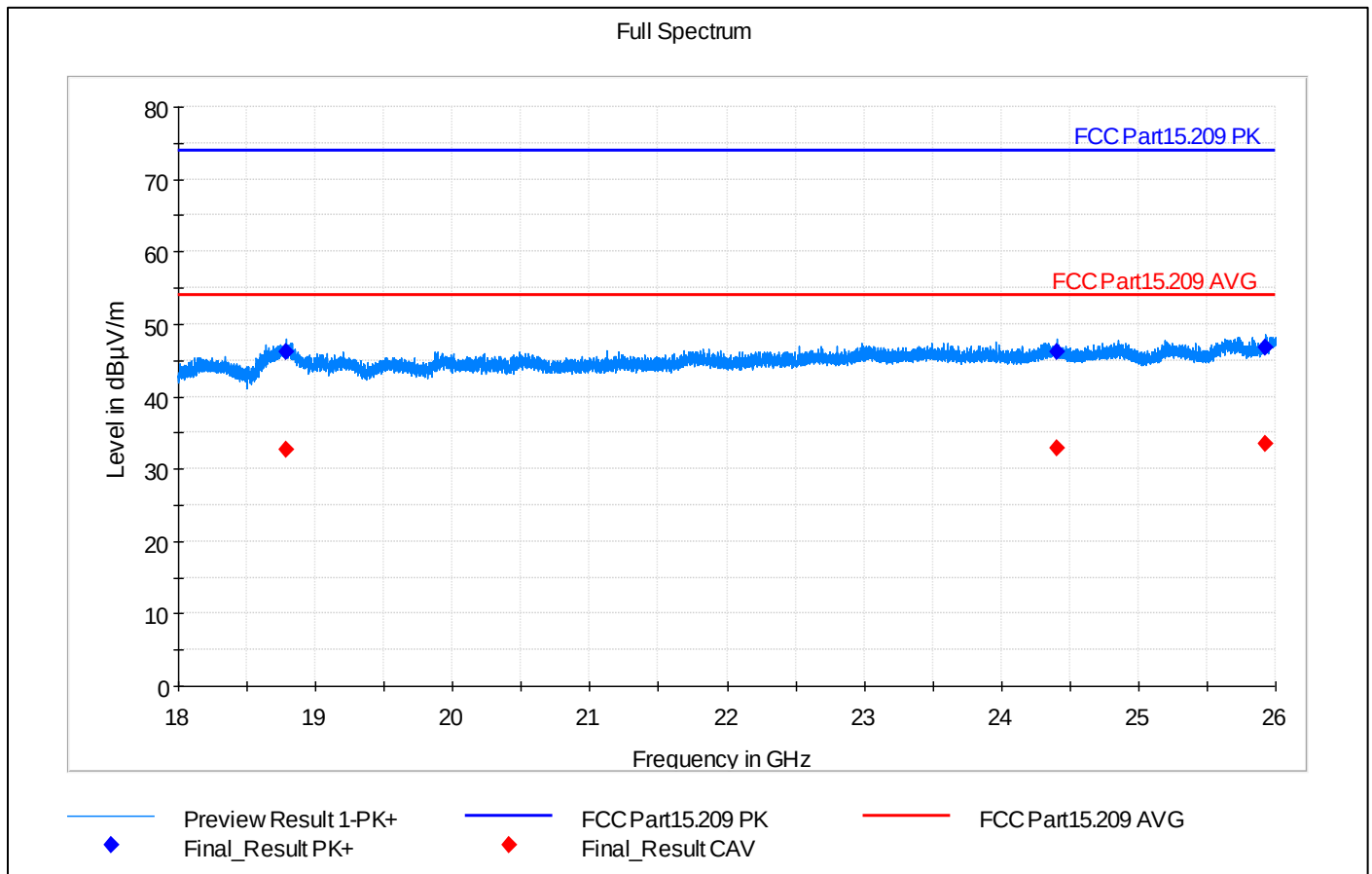
Frequency (MHz)	CAverage (dBµV/m)	Corrected level (dBuV/m)	Limit (dBµV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
1693.000	29.53	33.83	54	20.17	34.8	4.30	PASS
2402.250	75.50	79.80			38.6	4.30	Fundamental Tx signal

Low channel, 3 – 18 GHz, 1 Mbps

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
4803.500	---	40.47	54.0	13.53	100	1000	326.0	H	154	0	10.4	PASS
4803.500	51.00	---	74.0	23.00	100	1000	326.0	H	154	0	10.4	PASS
17215.750	---	42.38	54.0	11.62	100	1000	345.0	H	330	0	36.7	PASS
17215.750	54.60	---	74.0	19.40	100	1000	345.0	H	330	0	36.7	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
4803.500	40.47	44.77	54	10.23	10.4	4.30	PASS
17215.750	42.38	46.68	54	7.32	36.7	4.30	PASS

Low channel, 18 – 26 GHz, 1 Mbps


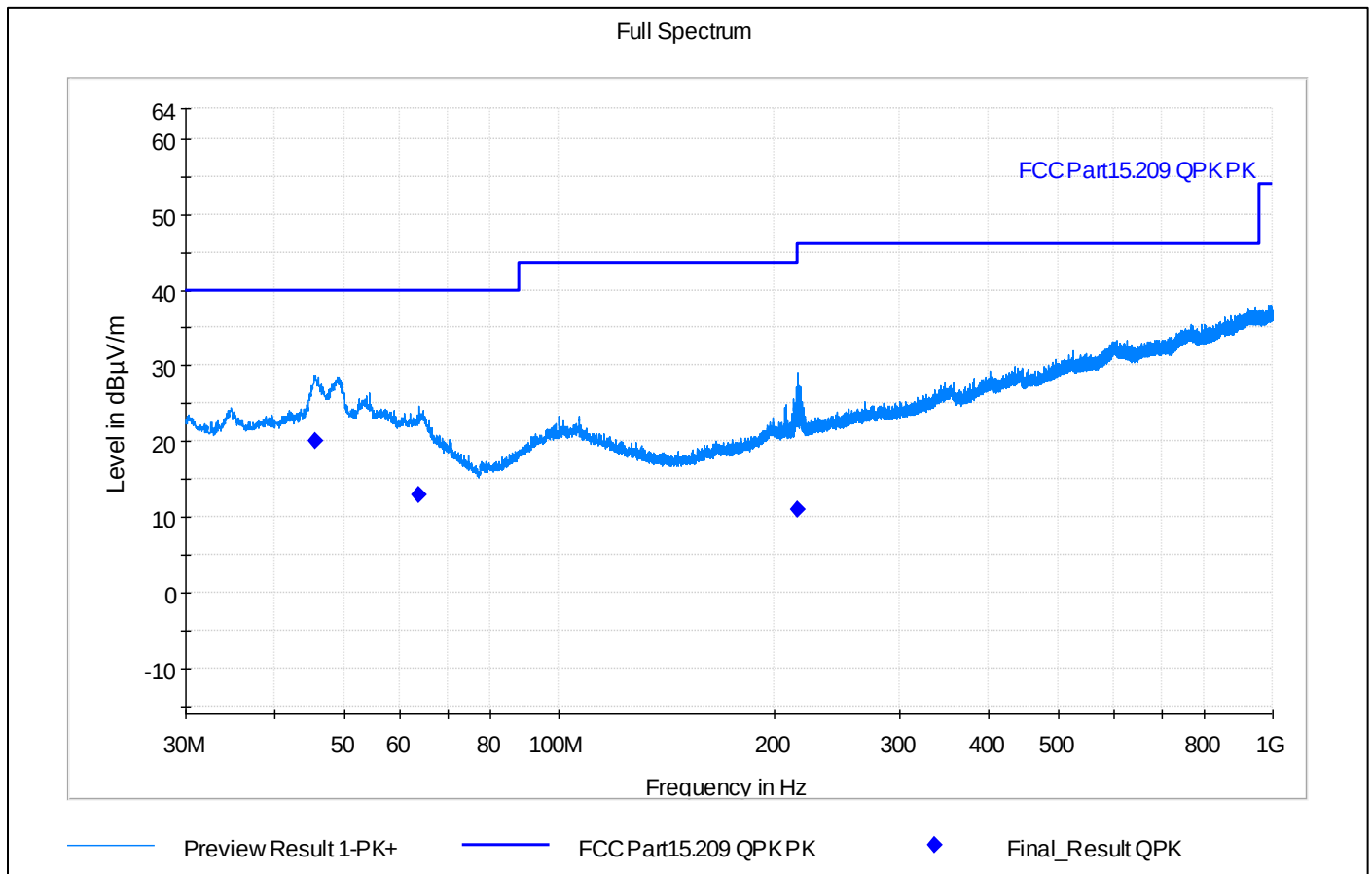
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
18785.000	---	32.71	54.0	21.29	3000	1000	371.0	V	247	0	23.5	PASS
18785.000	46.20	---	74.0	27.80	3000	1000	371.0	V	247	0	23.5	PASS
24401.500	46.21	---	74.0	27.79	3000	1000	186.0	V	244	0	26.2	PASS
24401.500	---	32.82	54.0	21.18	3000	1000	186.0	V	244	0	26.2	PASS
25929.000	46.70	---	74.0	27.30	3000	1000	371.0	V	247	0	27.0	PASS
25929.000	---	33.46	54.0	20.54	3000	1000	371.0	V	247	0	27.0	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
18785.000	32.71	37.01	54	16.99	23.5	4.30	PASS
24401.500	32.82	37.12	54	16.88	26.2	4.30	PASS
25929.000	33.46	37.76	54	16.24	27.0	4.30	PASS

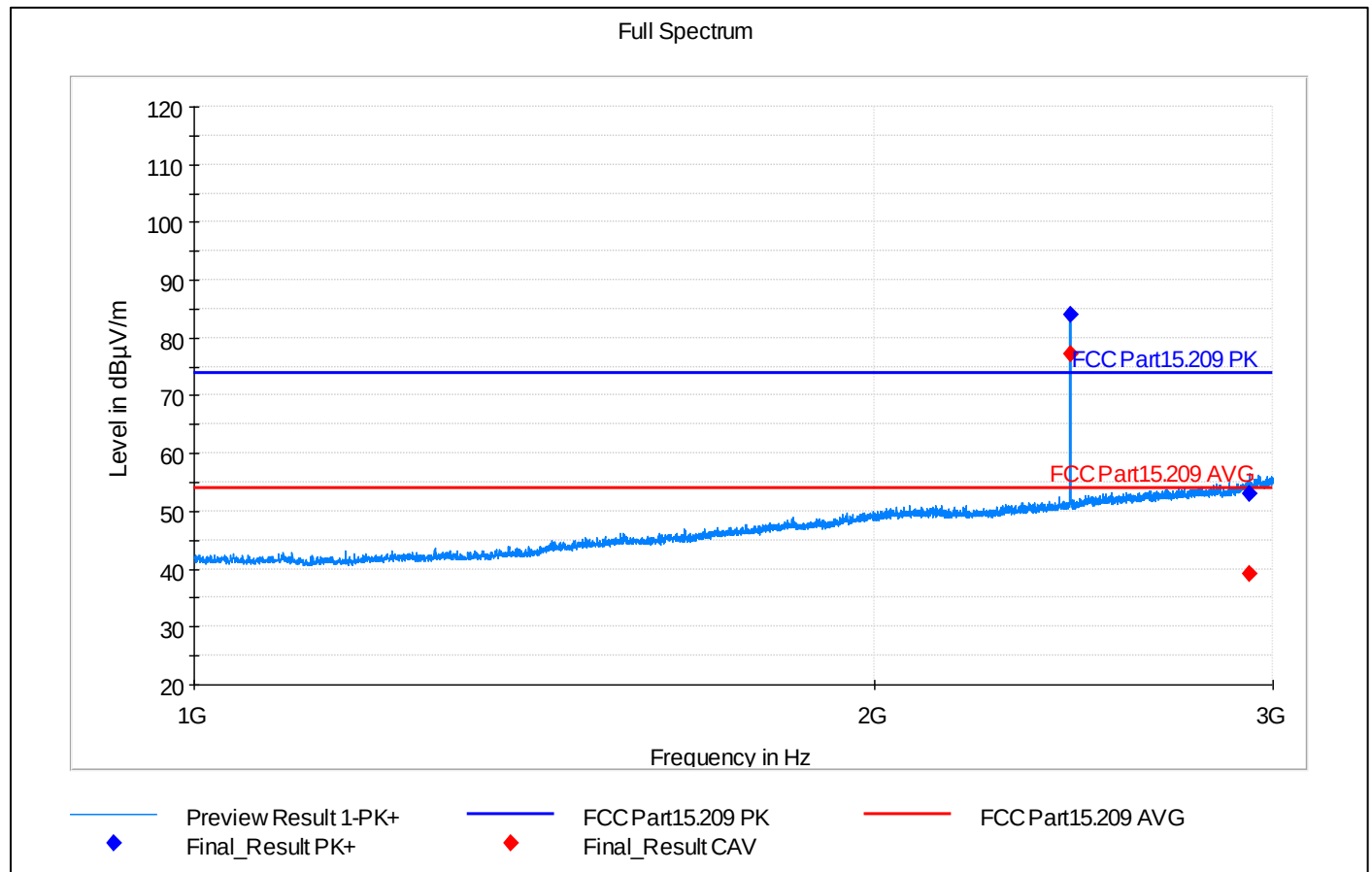
Mid channel, 30 MHz – 1 GHz, 1 Mbps



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
45.540	20.00	40.0	20.00	15000	120	115.0	V	276	0	20.8	PASS
63.690	12.94	40.0	27.06	15000	120	98.0	V	145	0	19.1	PASS
215.880	10.90	43.5	32.60	15000	120	98.0	V	73	0	19.7	PASS

Mid channel, 1-3 GHz, 1 Mbps



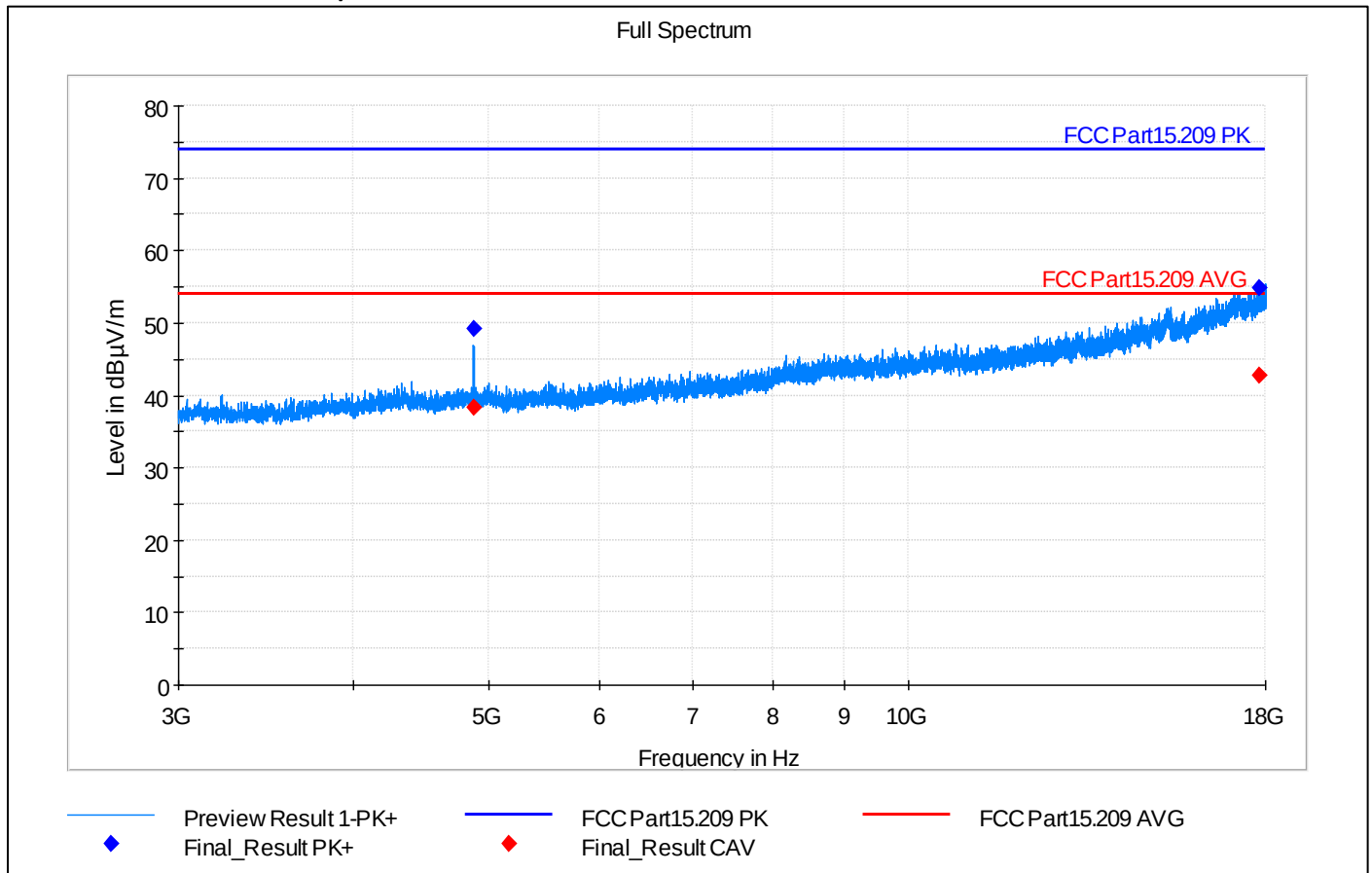
Note: Frequency 2440,000 MHz is excluded from spurious domain measurements and ignored. See table below.

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
2440.250	---	77.14	54.0	-23.14	100	1000	118.0	H	67	0	38.9	Fundamental
2440.250	84.08	---	74.0	-10.08	100	1000	118.0	H	67	0	38.9	Fundamental
2928.250	---	39.09	54.0	14.91	100	1000	290.0	H	282	90	40.7	PASS
2928.250	53.10	---	74.0	20.90	100	1000	290.0	H	282	90	40.7	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

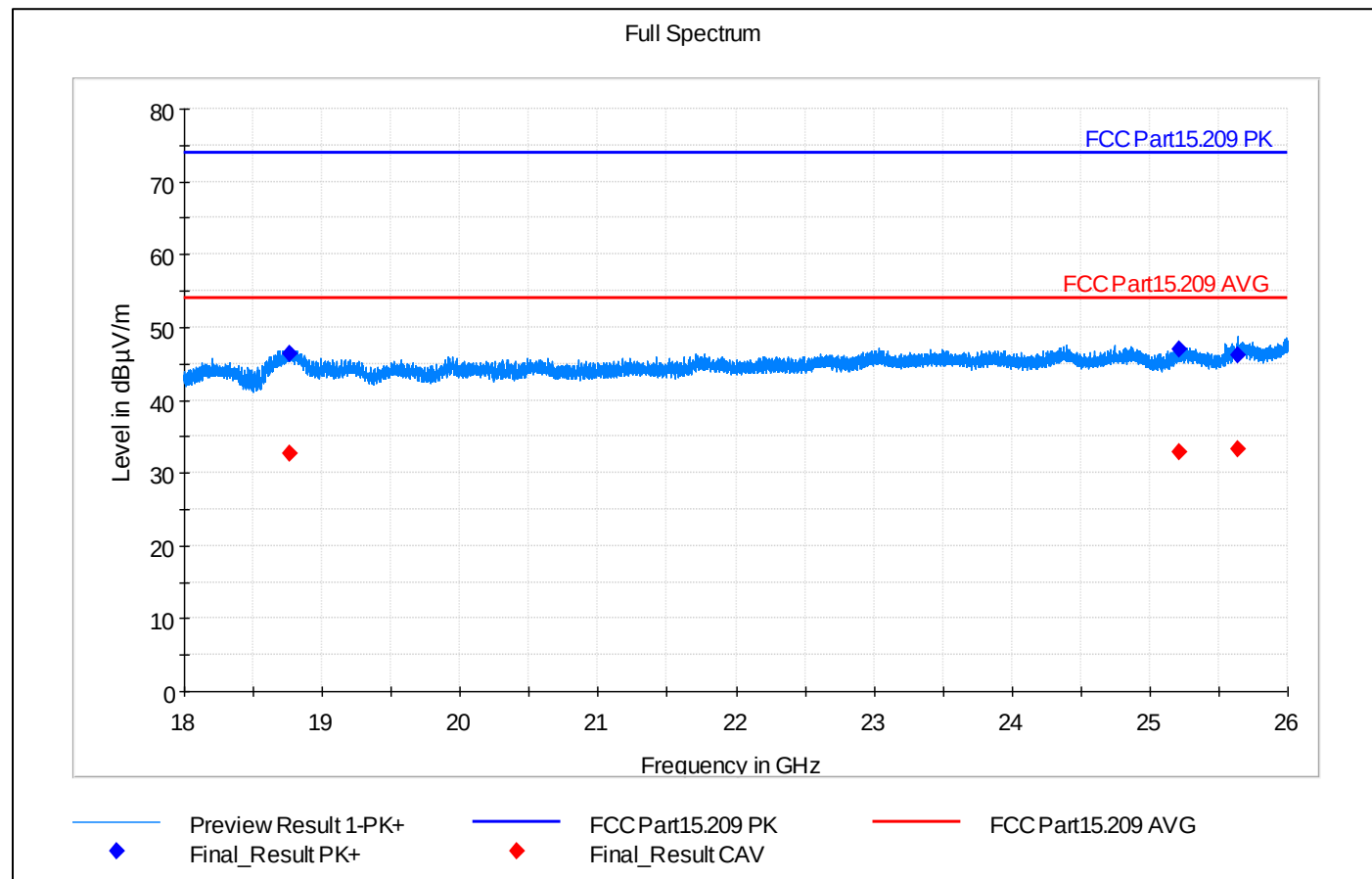
Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
2440.250	77.14				38.9	4.30	Fundamental Tx signal
2928.250	39.09	43.39	54	10.61	40.7	4.30	PASS

Mid channel, 3–18 GHz, 1 Mbps

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
4879.500	---	38.24	54.0	15.76	100	1000	257.0	H	165	90	10.6	PASS
4879.500	49.08	---	74.0	24.92	100	1000	257.0	H	165	90	10.6	PASS
17810.500	---	42.63	54.0	11.37	100	1000	279.0	V	302	90	38.7	PASS
17810.500	54.84	---	74.0	19.16	100	1000	279.0	V	302	90	38.7	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
4879.500	38.24	42.54	54	11.46	10.6	4.30	PASS
17810.500	42.63	46.93	54	7.07	38.7	4.30	PASS

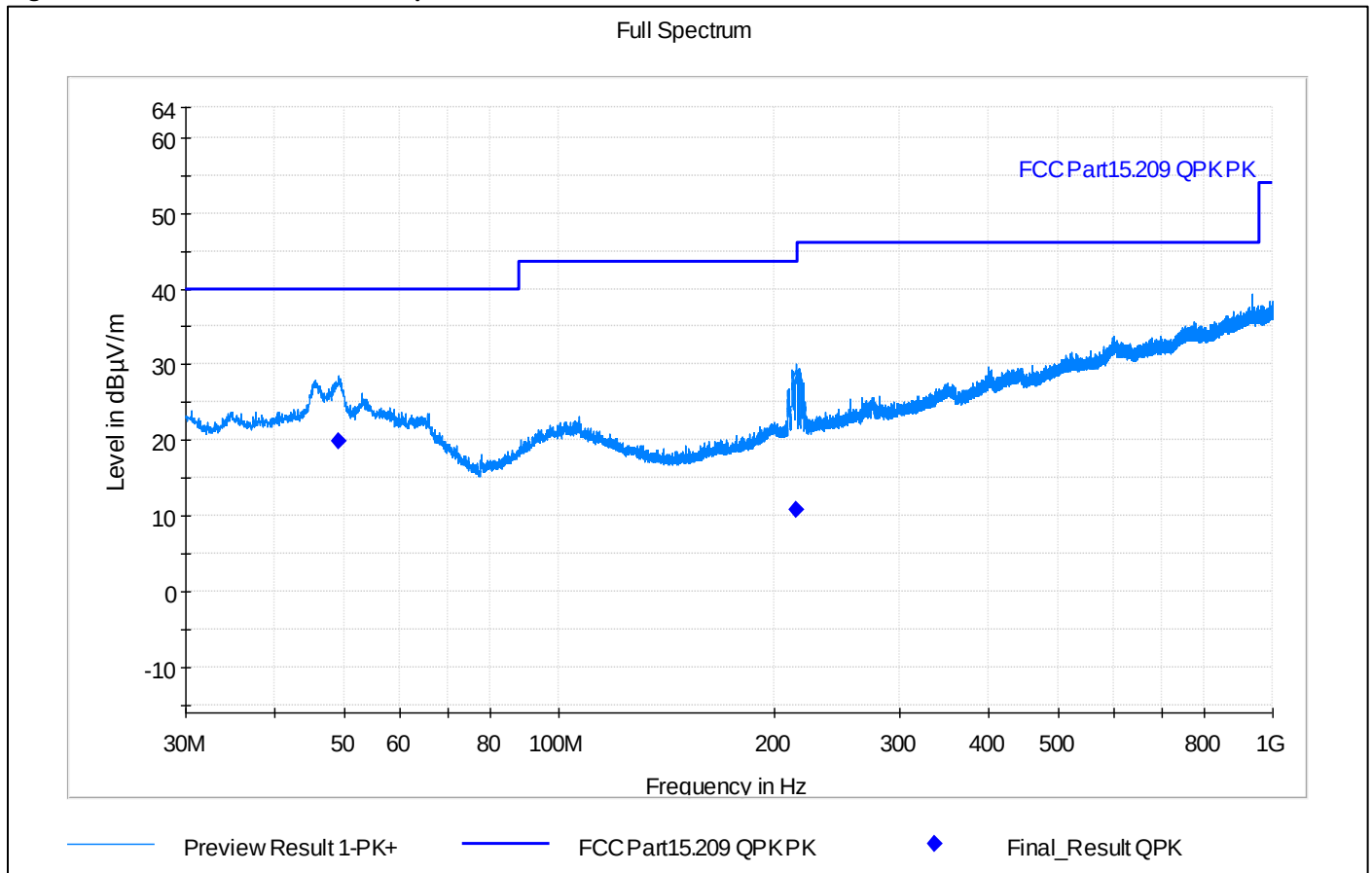
Mid channel, 18–26 GHz, 1 Mbps

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
18765.750	---	32.67	54.0	21.33	3000	1000	216.0	H	265	90	23.5	PASS
18765.750	46.25	---	74.0	27.75	3000	1000	216.0	H	265	90	23.5	PASS
25208.500	46.92	---	74.0	27.08	3000	1000	178.0	H	285	0	26.5	PASS
25208.500	---	32.92	54.0	21.08	3000	1000	178.0	H	285	0	26.5	PASS
25636.250	46.05	---	74.0	27.95	3000	1000	121.0	H	307	0	26.7	PASS
25636.250	---	33.24	54.0	20.76	3000	1000	121.0	H	307	0	26.7	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

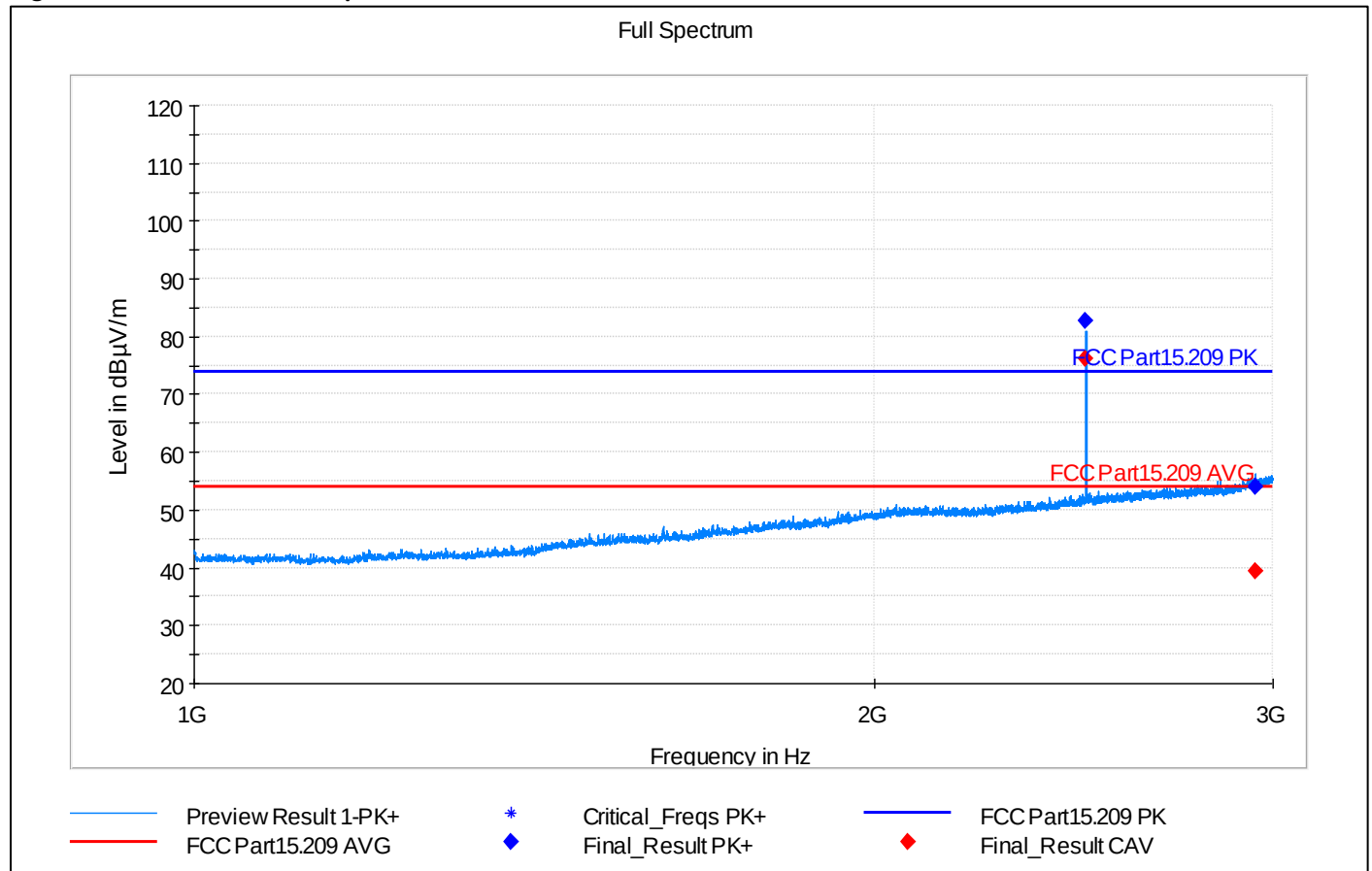
Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
18765.750	32.67	36.97	54	17.03	23.5	4.30	PASS
25208.500	32.92	37.22	54	16.78	26.5	4.30	PASS
25636.250	33.24	37.54	54	16.46	26.7	4.30	PASS

High channel, 30 MHz – 1 GHz, 1 Mbps



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
49.140	19.76	40.0	20.24	15000	120	98.0	V	181	90	21.1	PASS
214.920	10.82	43.5	32.68	15000	120	291.0	V	-7	0	19.7	PASS

High channel, 1 – 3 GHz, 1 Mbps


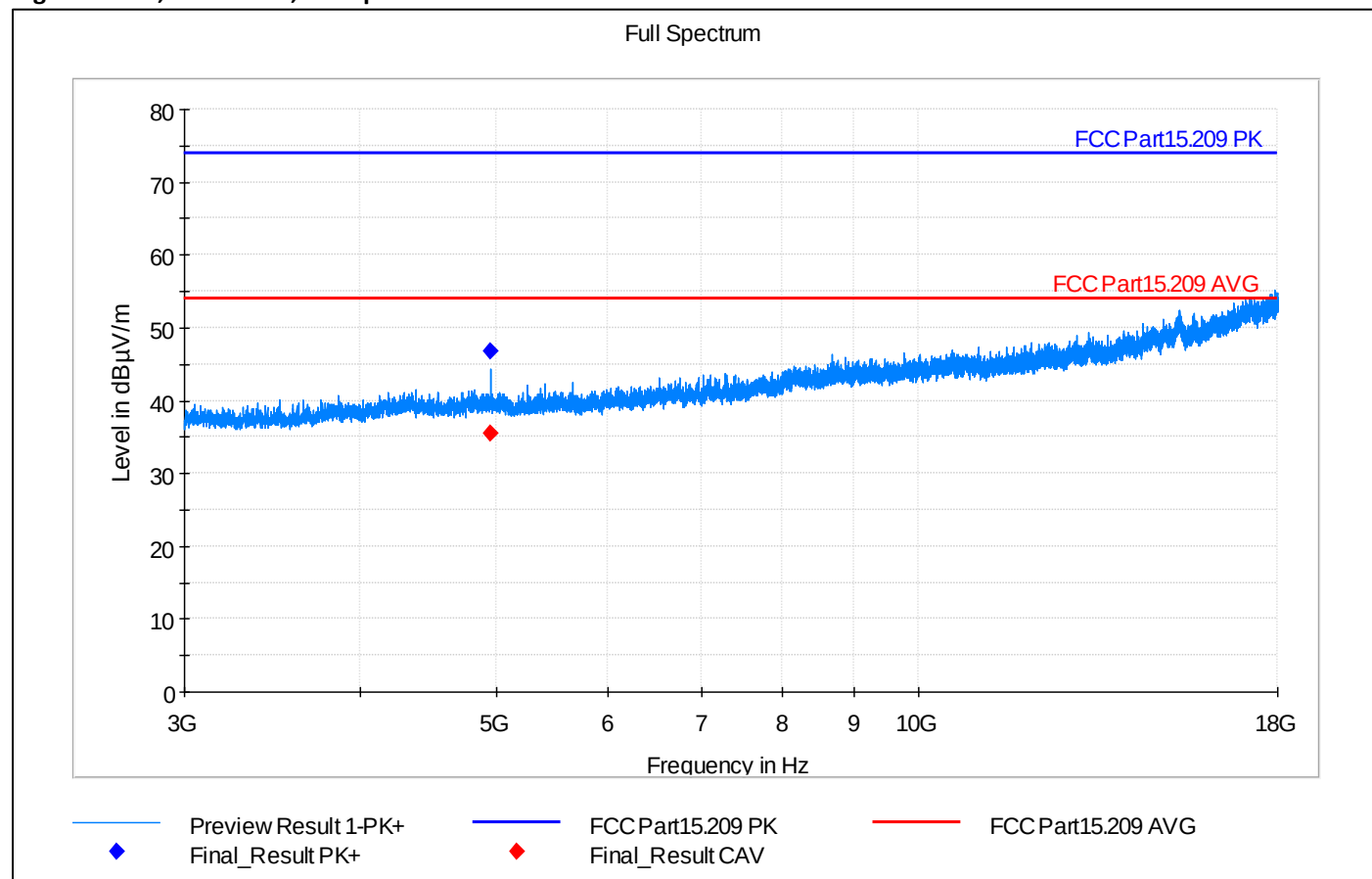
Note: Frequency 2479,750 MHz is excluded from spurious domain measurements and ignored. See table below.

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
2479.750	82.61	---	74.0	-8.61	100	1000	118.0	H	281	90	39.3	Fundamental
2479.750	---	76.17	54.0	-22.17	100	1000	118.0	H	281	90	39.3	Fundamental
2946.250	53.97	---	74.0	20.03	100	1000	217.0	H	175	90	41.0	PASS
2946.250	---	39.41	54.0	14.59	100	1000	217.0	H	175	90	41.0	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

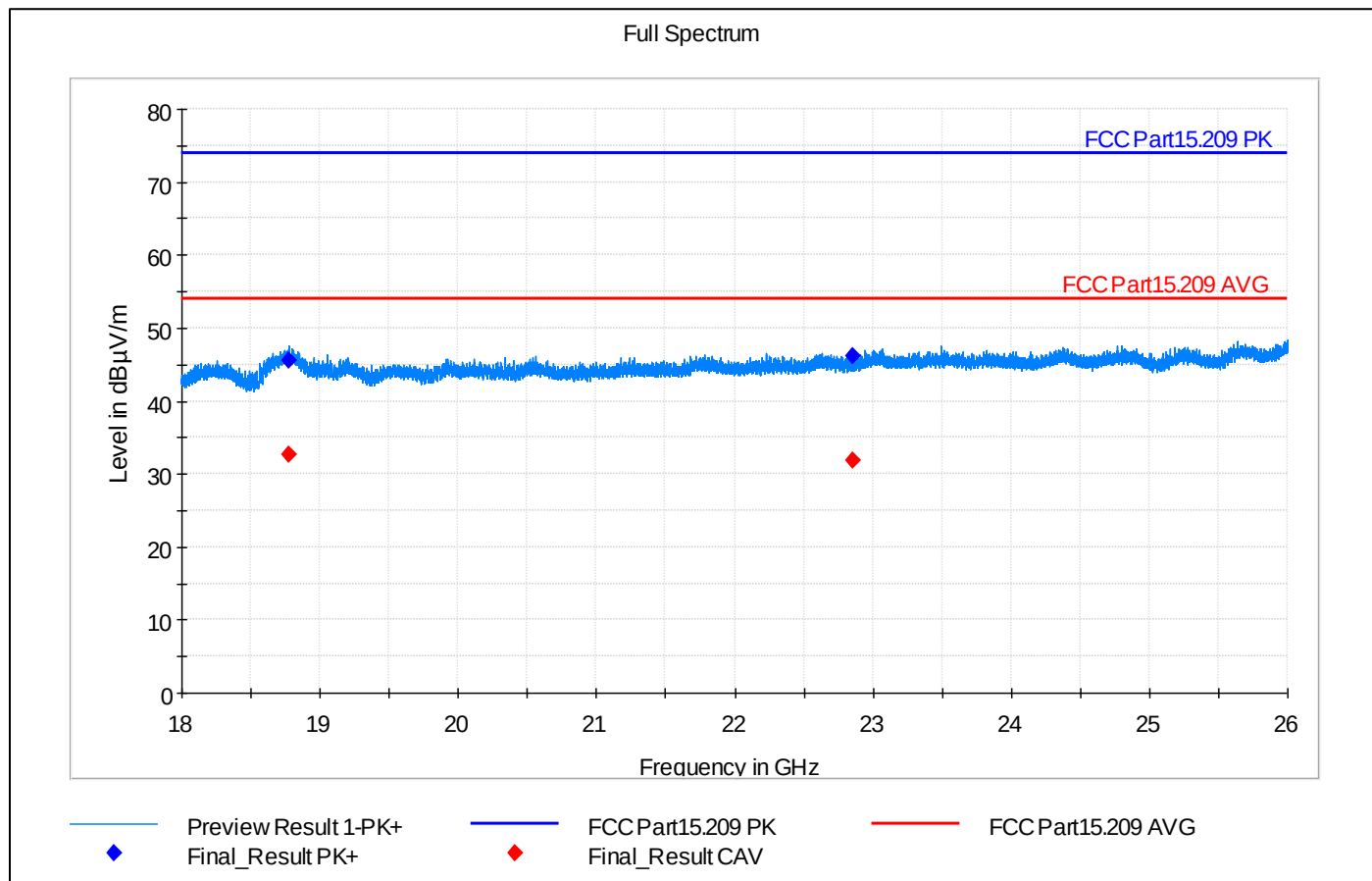
Frequency (MHz)	CAverage (dBµV/m)	Corrected level (dBuV/m)	Limit (dBµV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
2479.750	76.17				39.3	4.30	Fundamental Tx signal
2946.250	39.41	43.71	54	10.29	41.0	4.30	PASS

High channel, 3 – 18 GHz, 1 Mbps

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
4959.500	---	35.39	54.0	18.61	100	1000	117.0	H	158	90	10.6	PASS
4959.500	46.77	---	74.0	27.23	100	1000	117.0	H	158	90	10.6	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBµV/m)	Corrected level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
4959.500	35.39	39.69	54	14.37	10.6	4.30	PASS

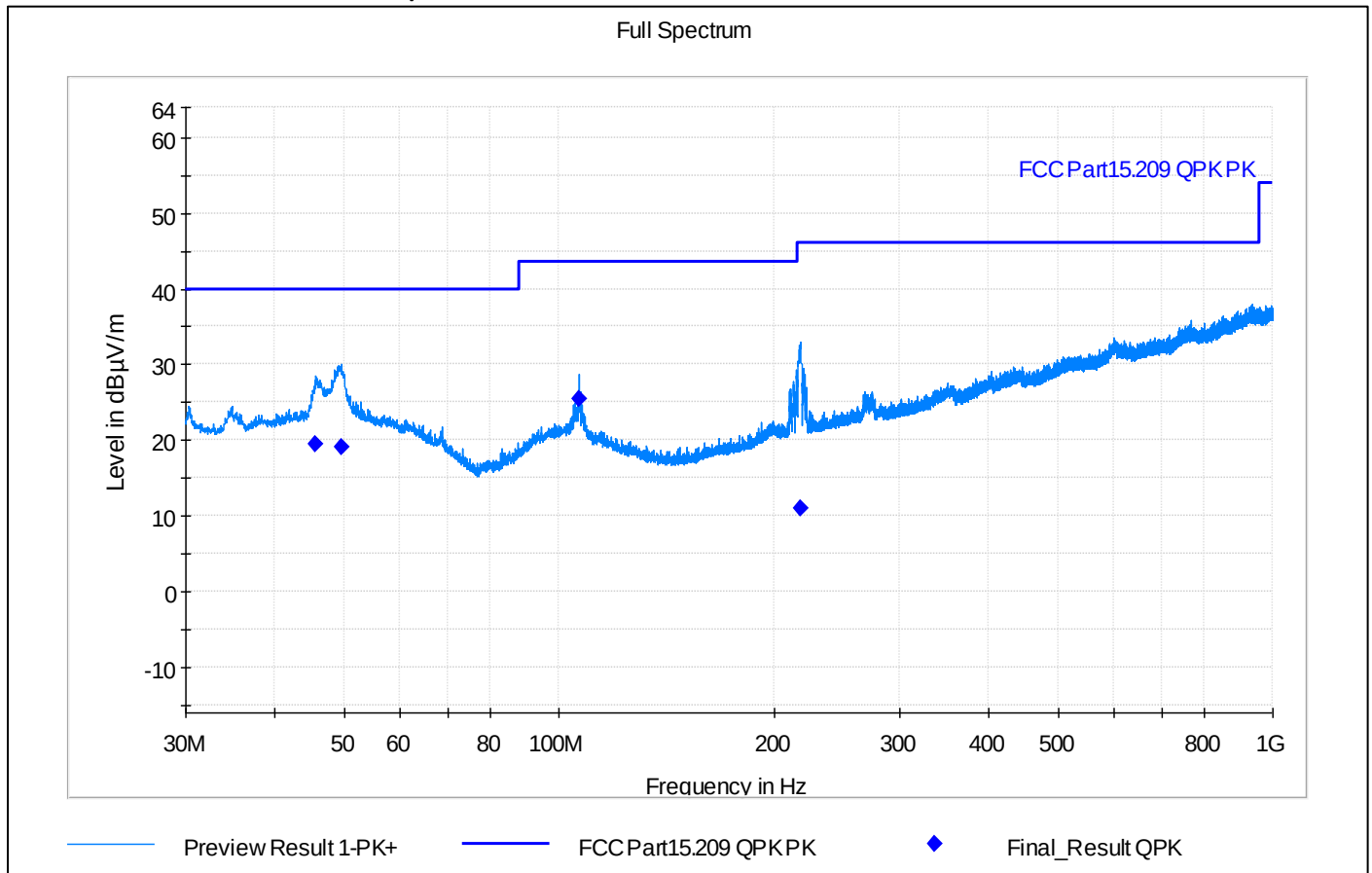
High channel, 18 – 26 GHz, 1 Mbps

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
18775.500	45.60	---	74.0	28.40	3000	1000	257.0	V	109	90	23.5	PASS
18775.500	---	32.71	54.0	21.29	3000	1000	257.0	V	109	90	23.5	PASS
22855.000	46.14	---	74.0	27.86	3000	1000	266.0	H	258	90	25.4	PASS
22855.000	---	31.74	54.0	22.26	3000	1000	266.0	H	258	90	25.4	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

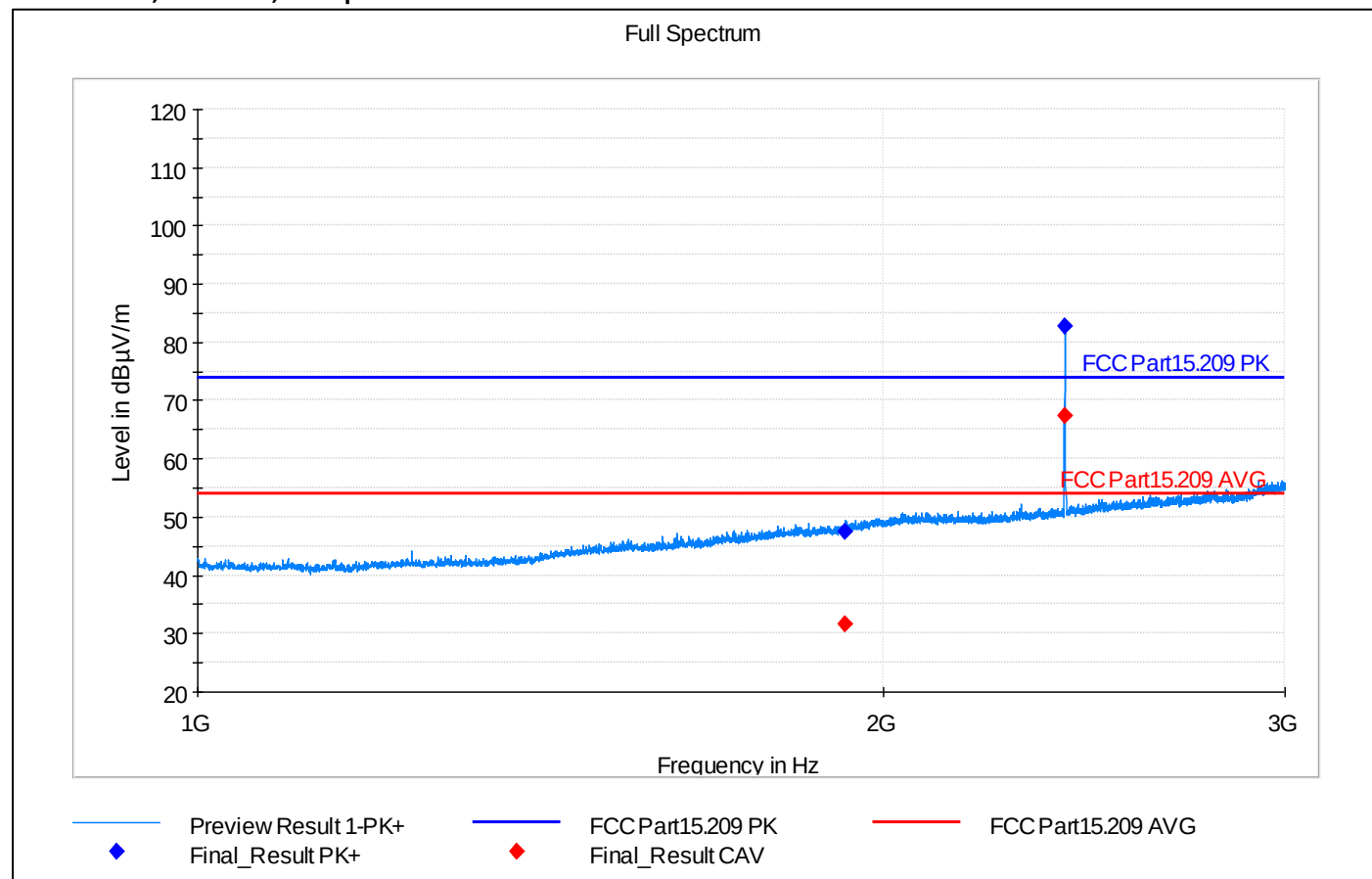
Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
18775.500	32.71	37.01	54	16.99	23.5	4.30	PASS
22855.000	31.74	36.04	54	17.96	25.4	4.30	PASS

Low channel, 30 MHz – 1 GHz, 2 Mbps



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
45.690	19.55	40.0	20.45	15000	120	98.0	V	331	0	20.9	PASS
49.500	19.17	40.0	20.83	15000	120	98.0	V	297	0	21.1	PASS
106.680	25.40	43.5	18.10	15000	120	98.0	V	15	0	19.5	PASS
217.650	11.03	46.0	34.97	15000	120	384.0	V	137	90	19.8	PASS

Low channel, 1 – 3 GHz, 2 Mbps


Note: Frequency 2401,750 MHz is excluded from spurious domain measurements and ignored. See table below.

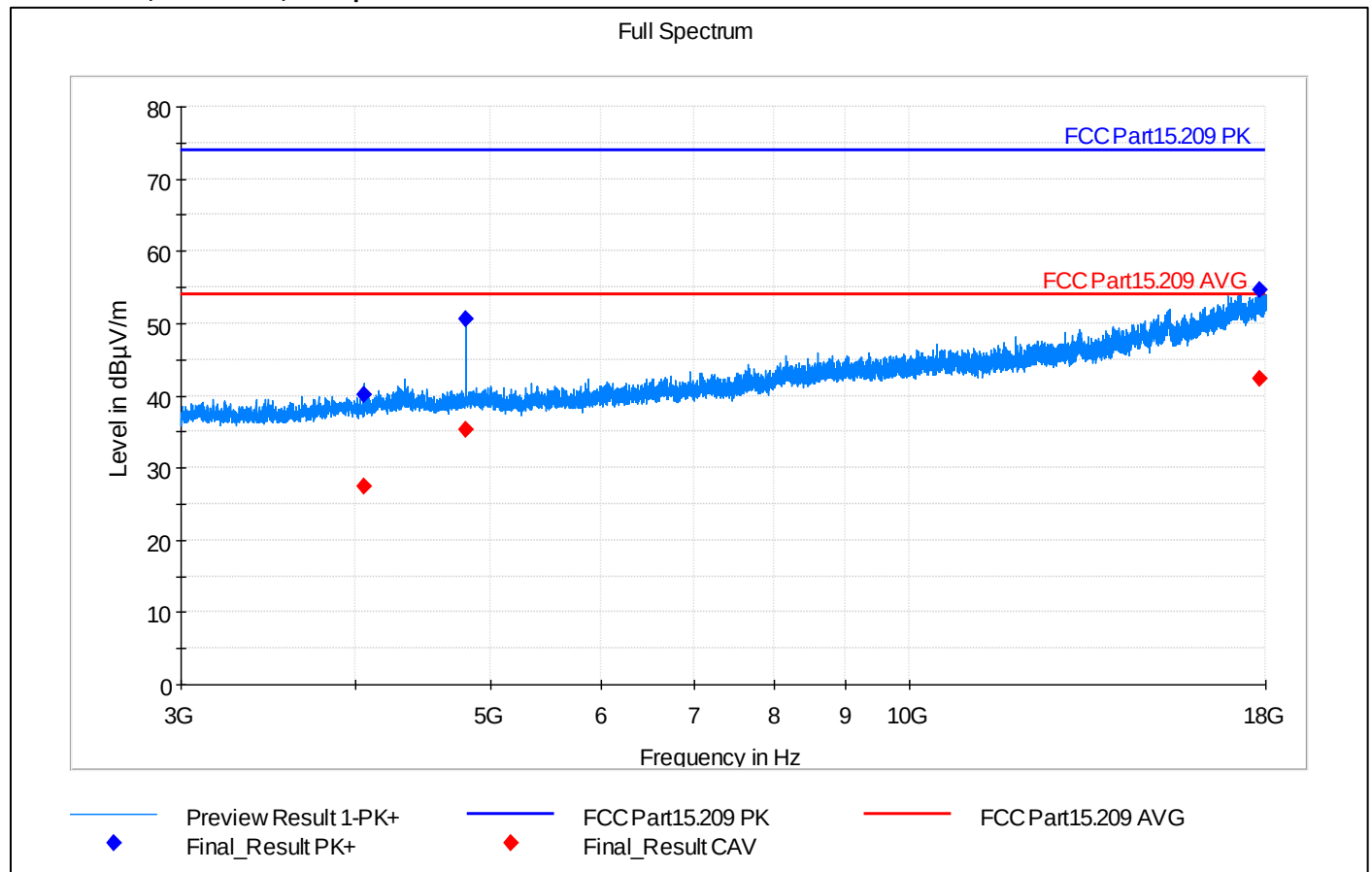
All CAverage values contain correction factor of 10.55 dB, according to ANSI C63.10 section 11.12.2.5.2.

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
1923.750	47.39	---	74.0	26.61	100	1000	356.0	H	328	0	36.4	PASS
1923.750	---	31.71	54.0	22.29	100	1000	356.0	H	328	0	36.4	PASS
2401.500	82.67	---	74.0	-8.67	100	1000	134.0	H	113	0	38.6	Fundamental
2401.500	---	67.34	54.0	-13.34	100	1000	134.0	H	113	0	38.6	Fundamental

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

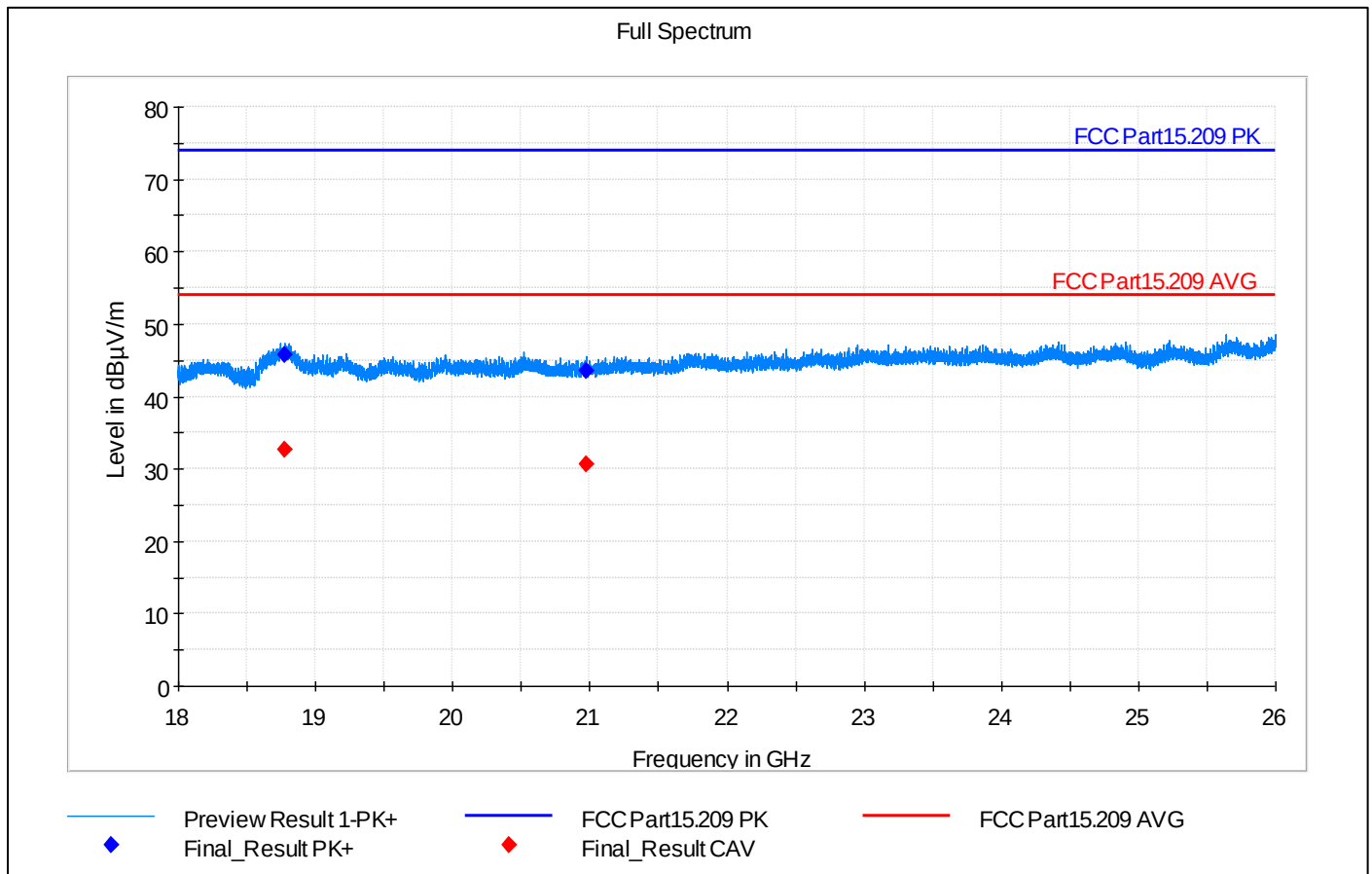
Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
1923.750	31.71	42.26	54	11.74	36.4	10.55	PASS
2401.500	67.34				38.6	10.55	Fundamental Tx signal

Low channel, 3 – 18 GHz, 2 Mbps

Final_Result

Frequency	MaxPeak (dBμV/m)	CAverage	Limit (dBμV/m)	Margin	Meas.	Bandwidth	Height	Po l	Azimuth	Elevation	Corr.	Comment
4063.500	40.15	---	74.0	33.85	100	1000	218.0	H	216	90	8.5	PASS
4063.500	---	27.42	54.0	26.58	100	1000	218.0	H	216	90	8.5	PASS
4803.000	50.67	---	74.0	23.33	100	1000	301.0	V	17	90	10.4	PASS
4803.000	---	35.27	54.0	18.73	100	1000	301.0	V	17	90	10.4	PASS
17828.750	---	42.33	54.0	11.67	100	1000	247.0	V	227	0	38.8	PASS
17828.750	54.62	---	74.0	19.38	100	1000	247.0	V	227	0	38.8	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
4063.500	27.42	37.97	54	16.03	8.5	10.55	PASS
4803.000	35.27	45.82	54	8.18	10.4	10.55	PASS
17828.750	42.33	52.88	54	1.12	38.8	10.55	PASS

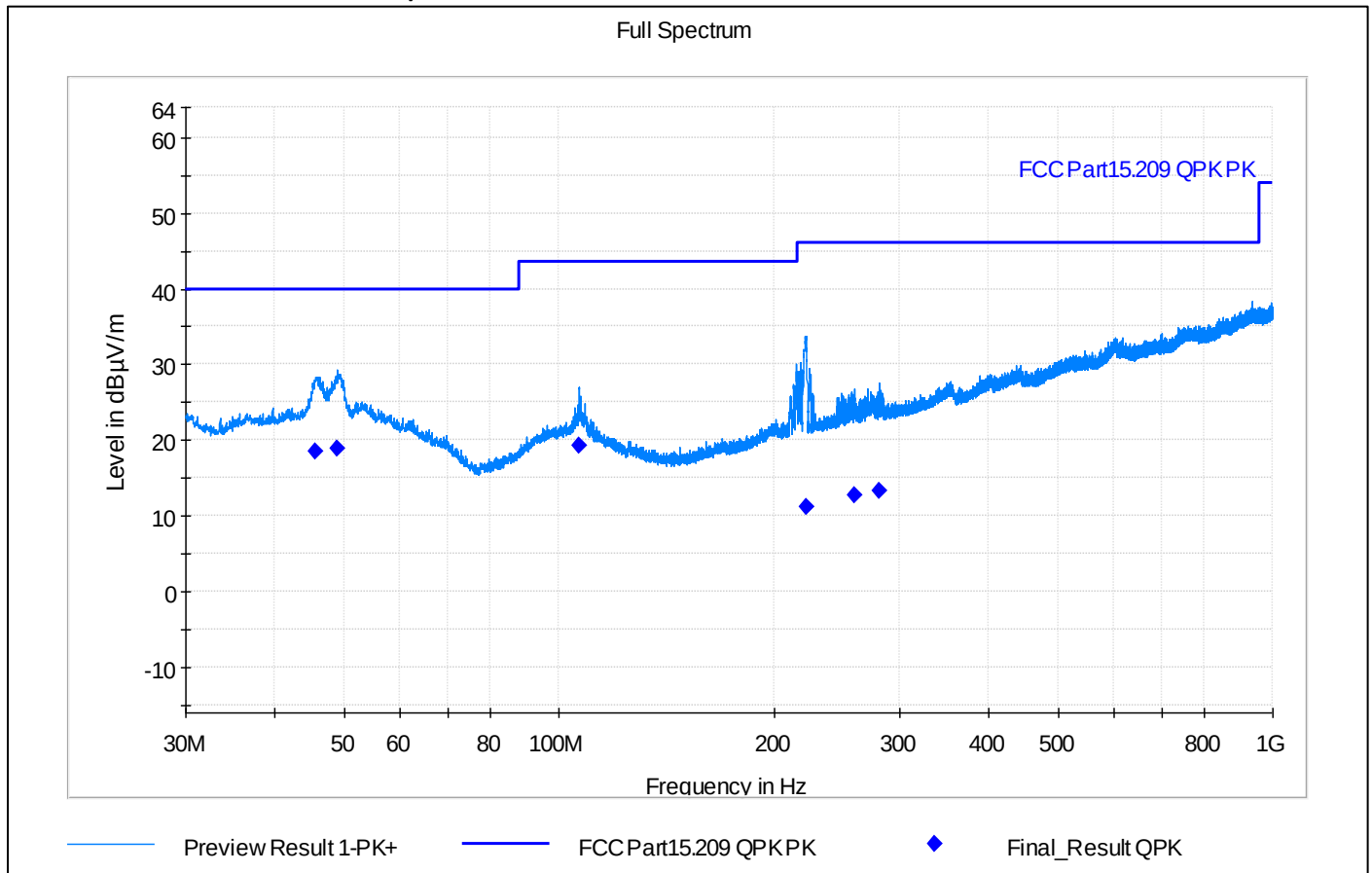
Low channel, 18 – 26 GHz, 2 Mbps

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
18771.250	45.81	---	74.0	28.19	3000	1000	208.0	V	222	90	23.5	PASS
18771.250	---	32.58	54.0	21.42	3000	1000	208.0	V	222	90	23.5	PASS
20969.750	43.63	---	74.0	30.37	3000	1000	186.0	H	304	90	24.4	PASS
20969.750	---	30.61	54.0	23.39	3000	1000	186.0	H	304	90	24.4	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

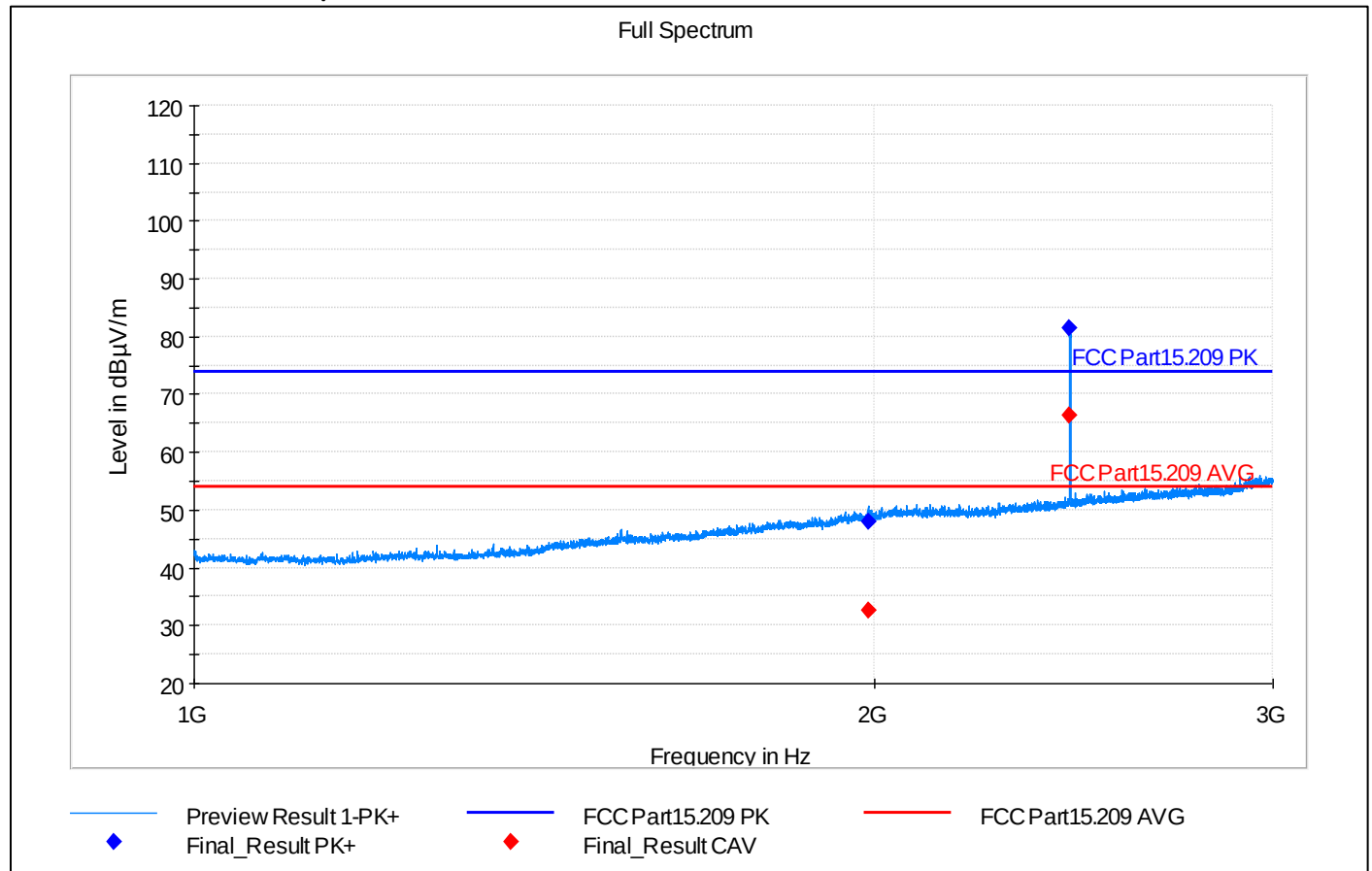
Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
18771.250	32.58	43.13	54	10.87	23.5	10.55	PASS
20969.750	30.61	41.16	54	12.84	24.4	10.55	PASS

Mid channel, 30 MHz – 1 GHz, 2 Mbps



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
45.690	18.60	40.0	21.40	15000	120	212.0	V	303	0	20.9	PASS
48.990	18.98	40.0	21.02	15000	120	98.0	V	252	0	21.1	PASS
106.740	19.24	43.5	24.26	15000	120	368.0	V	202	90	19.5	PASS
221.820	11.19	46.0	34.81	15000	120	157.0	H	67	0	20.0	PASS
259.950	12.67	46.0	33.33	15000	120	100.0	V	-12	0	21.7	PASS
281.460	13.28	46.0	32.72	15000	120	282.0	V	22	0	22.0	PASS

Mid channel, 1-3 GHz, 2 Mbps


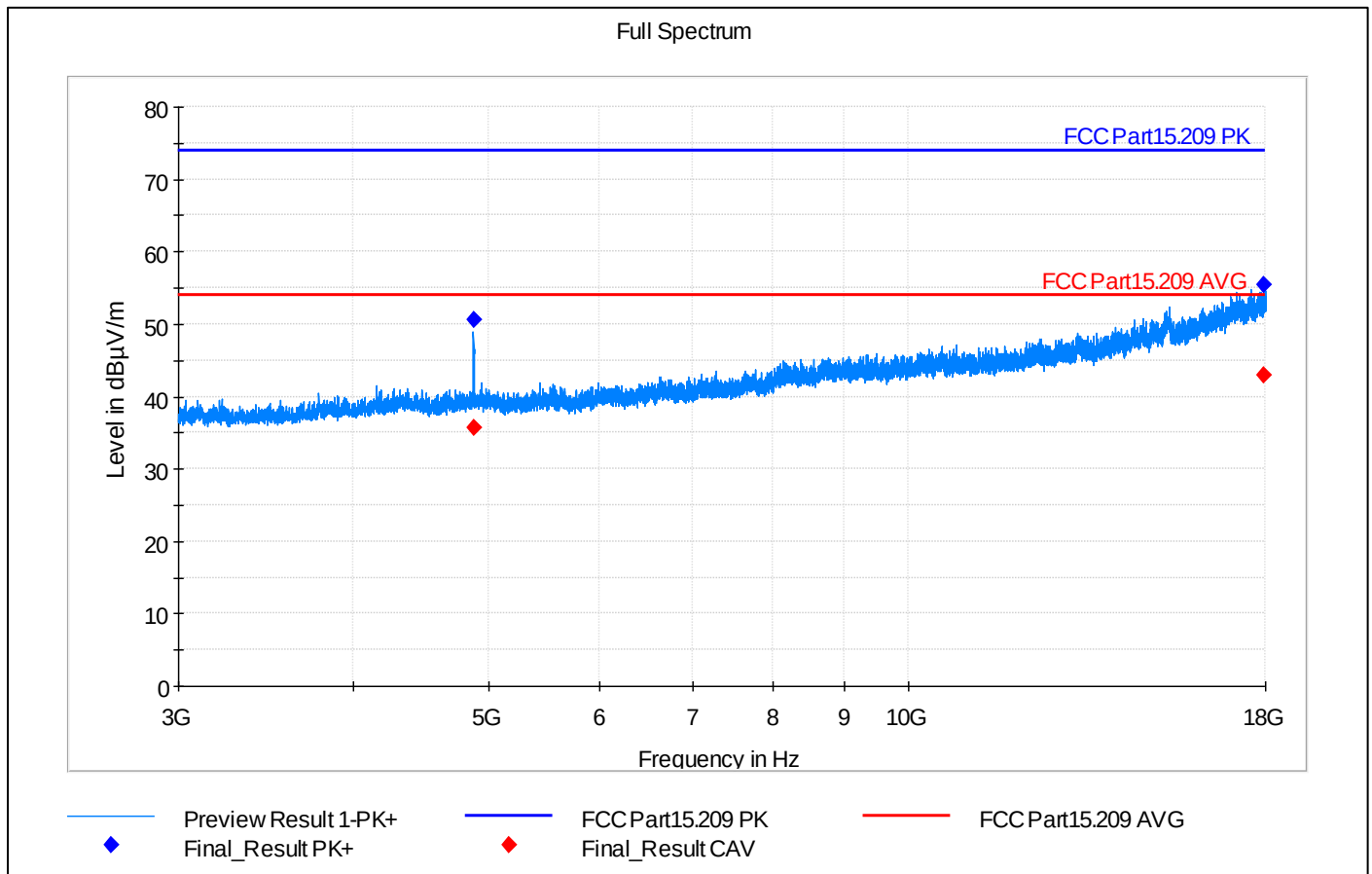
Note: Frequency 2440,000 MHz is excluded from spurious domain measurements and ignored. See table below.

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
1986.500	---	32.50	54.0	21.50	100	1000	164.0	H	117	90	37.1	PASS
1986.500	48.04	---	74.0	25.96	100	1000	164.0	H	117	90	37.1	PASS
2439.500	---	66.25	54.0	-12.25	100	1000	143.0	H	123	90	38.9	Fundamental
2439.500	81.55	---	74.0	-7.55	100	1000	143.0	H	123	90	38.9	Fundamental

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
1986.500	32.50	44.05	54	9.95	37.1	10.55	PASS
2439.500	66.25				38.9	10.55	Fundamental Tx signal

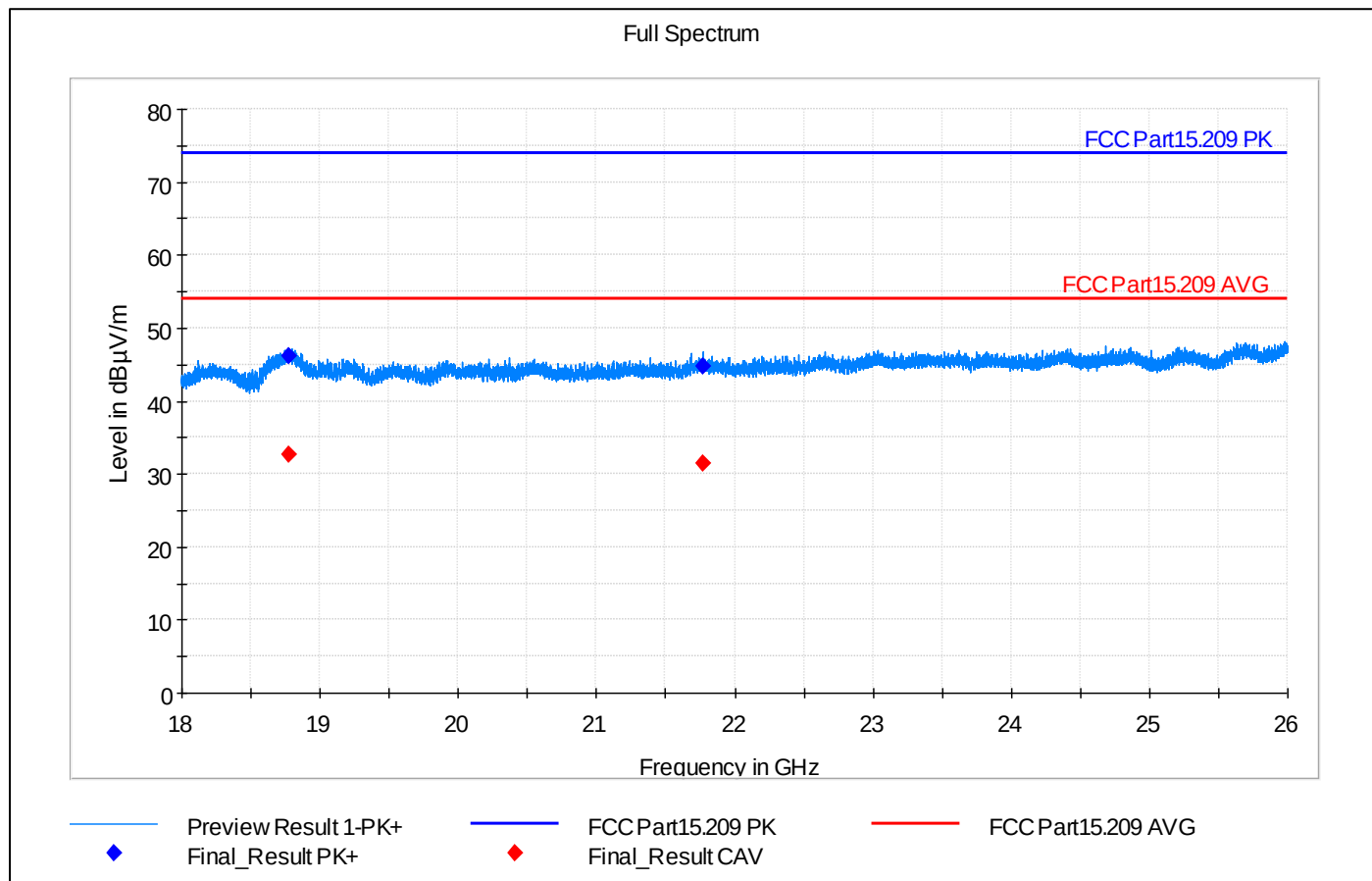
Mid channel, 3–18 GHz, 2 Mbps


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
4880.000	---	35.65	54.0	18.35	100	1000	122.0	V	11	90	10.6	PASS
4880.000	50.60	---	74.0	23.40	100	1000	122.0	V	11	90	10.6	PASS
17963.500	---	42.93	54.0	11.07	100	1000	348.0	V	357	90	39.5	PASS
17963.500	55.44	---	74.0	18.56	100	1000	348.0	V	357	90	39.5	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
4880.000	35.65	46.2	54	7.8	10.6	10.55	PASS
17963.500	42.93	53.48	54	0.52	39.5	10.55	PASS

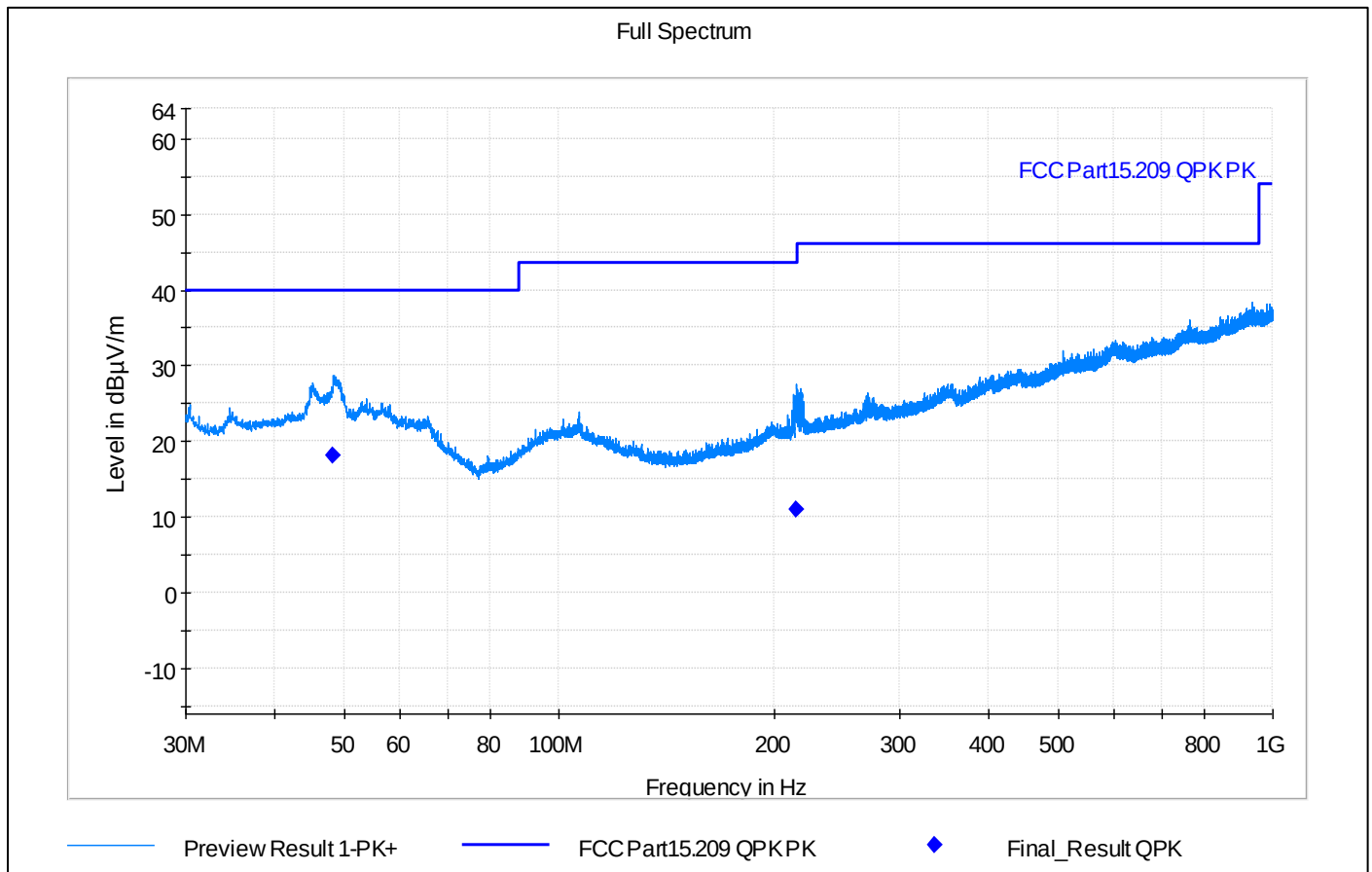
Mid channel, 18–26 GHz, 2 Mbps

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
18779.000	---	32.67	54.0	21.33	3000	1000	146.0	V	213	0	23.5	PASS
18779.000	46.21	---	74.0	27.79	3000	1000	146.0	V	213	0	23.5	PASS
21776.250	---	31.47	54.0	22.53	3000	1000	339.0	V	247	0	24.9	PASS
21776.250	44.77	---	74.0	29.23	3000	1000	339.0	V	247	0	24.9	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
18779.000	32.67	43.22	54	10.78	23.5	10.55	PASS
21776.250	31.47	42.02	54	11.98	24.9	10.55	PASS

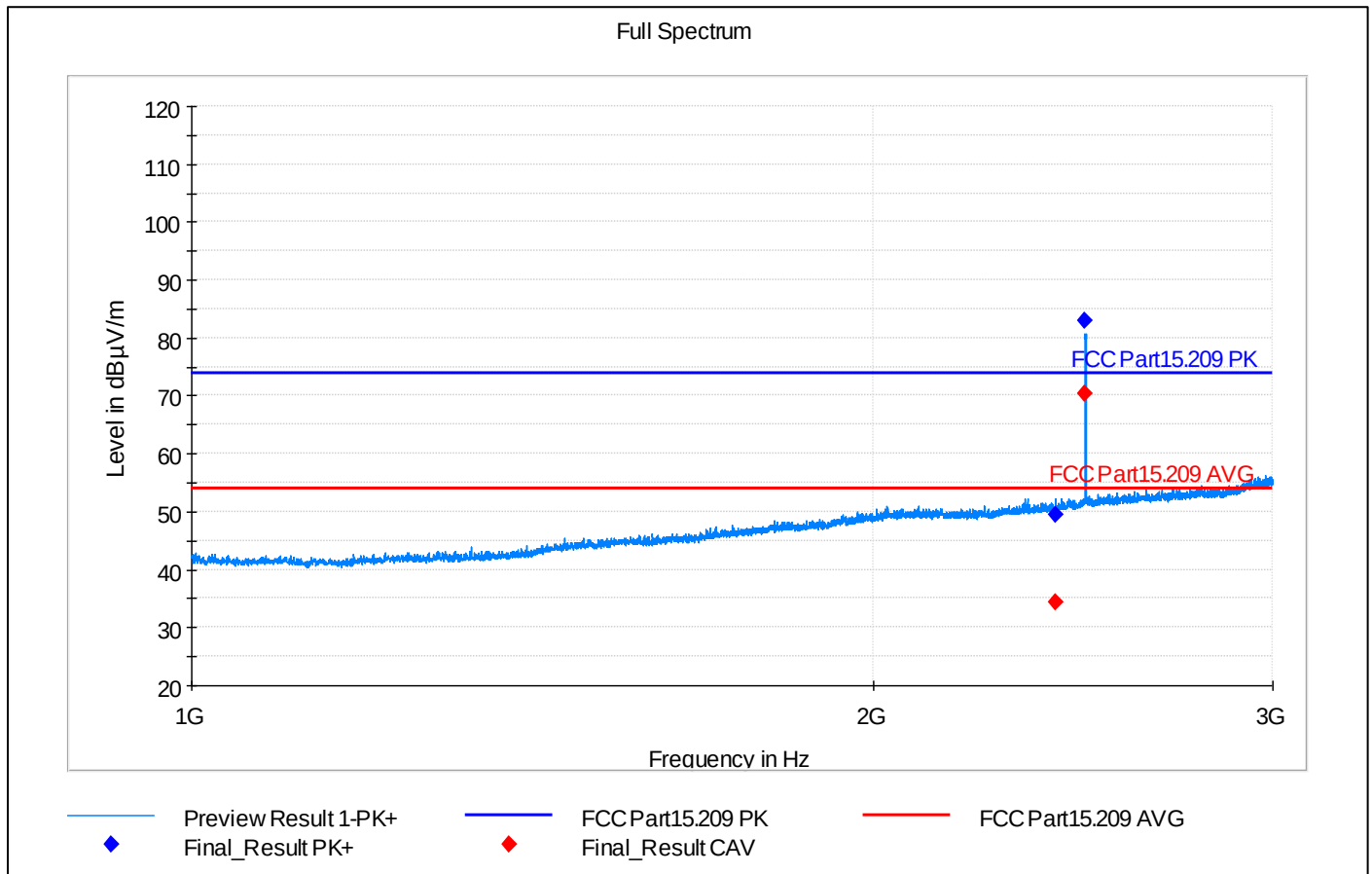
High channel, 30 MHz – 1 GHz, 2 Mbps



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
48.330	18.17	40.0	21.83	15000	120	100.0	V	337	0	21.1	PASS
215.430	10.91	43.5	32.59	15000	120	354.0	V	243	90	19.7	PASS

High channel, 1 – 3 GHz, 2 Mbps



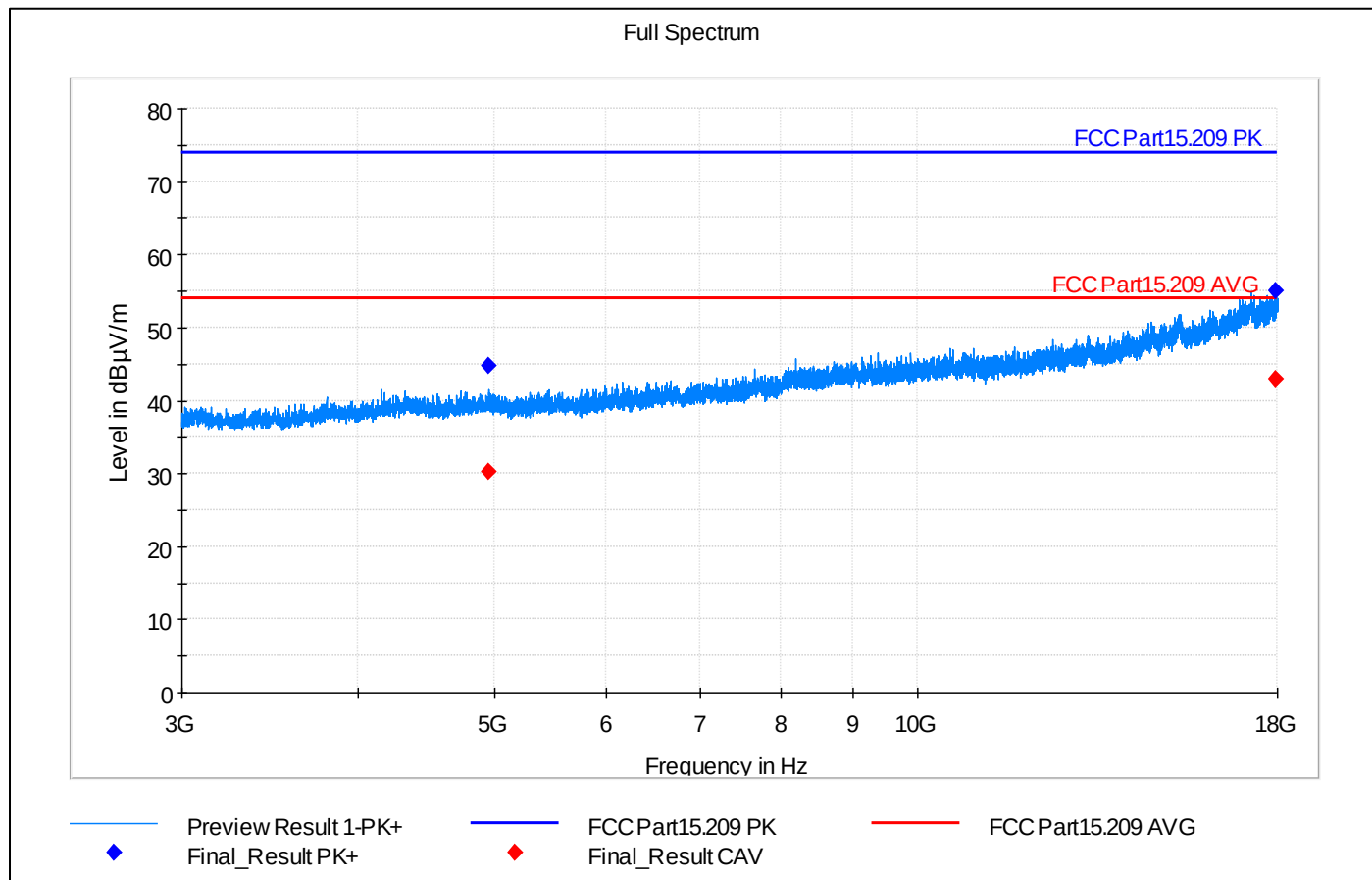
Note: Frequency 2479,750 MHz is excluded from spurious domain measurements and ignored. See table below.

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
2405.250	---	34.41	54.0	19.59	100	1000	170.0	H	128	90	38.7	PASS
2405.250	49.38	---	74.0	24.62	100	1000	170.0	H	128	90	38.7	PASS
2480.000	---	70.34	54.0	-16.34	100	1000	134.0	H	130	90	39.3	Fundamental
2480.000	83.00	---	74.0	-9.00	100	1000	134.0	H	130	90	39.3	Fundamental

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

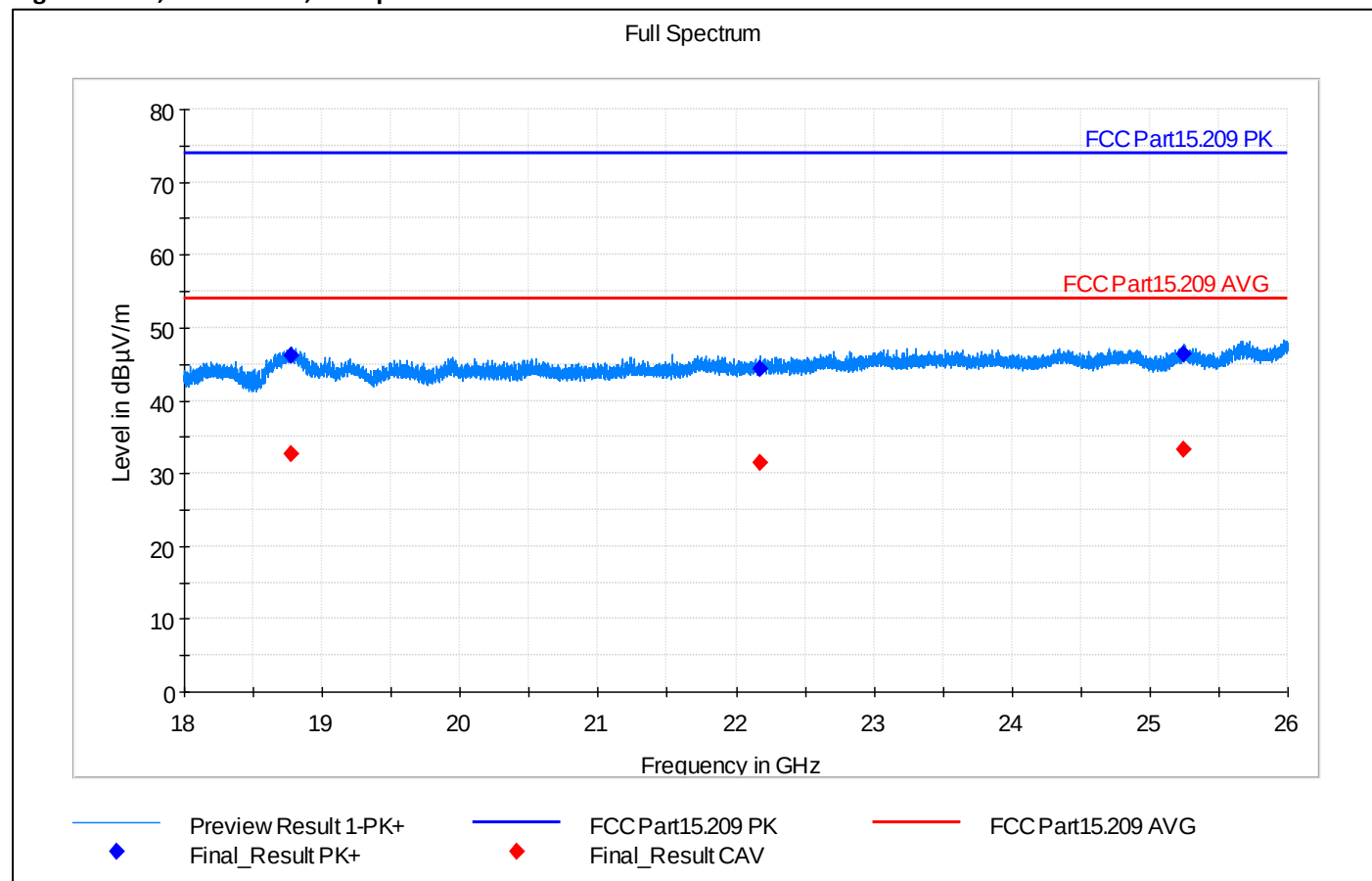
Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
2405.250	34.41	44.96	54	9.04	38.7	10.55	PASS
2480.000	70.34				39.3	10.55	PASS

High channel, 3 – 18 GHz, 2 Mbps

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
4961.000	44.64	---	74.0	29.36	100	1000	139.0	V	341	90	10.6	PASS
4961.000	---	30.22	54.0	23.78	100	1000	139.0	V	341	90	10.6	PASS
17972.500	55.08	---	74.0	18.92	100	1000	143.0	V	239	90	39.5	PASS
17972.500	---	42.83	54.0	11.17	100	1000	143.0	V	239	90	39.5	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dBμV/m)	Corrected level (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
4961.000	30.22	40.77	54	13.23	10.6	10.55	PASS
17972.500	42.83	53.38	54	0.62	39.5	10.55	PASS

High channel, 18 – 26 GHz, 2 Mbps

Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	CAverage (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
18776.250	---	32.69	54.0	21.31	3000	1000	158.0	V	124	0	23.5	PASS
18776.250	46.18	---	74.0	27.83	3000	1000	158.0	V	124	0	23.5	PASS
22174.250	44.31	---	74.0	29.69	3000	1000	158.0	V	305	90	24.9	PASS
22174.250	---	31.41	54.0	22.59	3000	1000	158.0	V	305	90	24.9	PASS
25250.500	46.33	---	74.0	27.67	3000	1000	318.0	H	65	90	26.7	PASS
25250.500	---	33.15	54.0	20.85	3000	1000	318.0	H	65	90	26.7	PASS

Duty cycle corrected average values, according to ANSI C63.10 section 11.12.2.5.2.

Frequency (MHz)	CAverage (dB μ V/m)	Corrected level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB/m)	DC correction	Comment
18776.250	32.69	43.24	54	10.76	23.5	10.55	PASS
22174.250	31.41	41.96	54	12.04	24.9	10.55	PASS
25250.500	33.15	43.7	54	10.3	26.7	10.55	PASS

19. Receiver spurious emissions, radiated

Reference: ISSED RSS-247, Issue 4 (section 3.1)

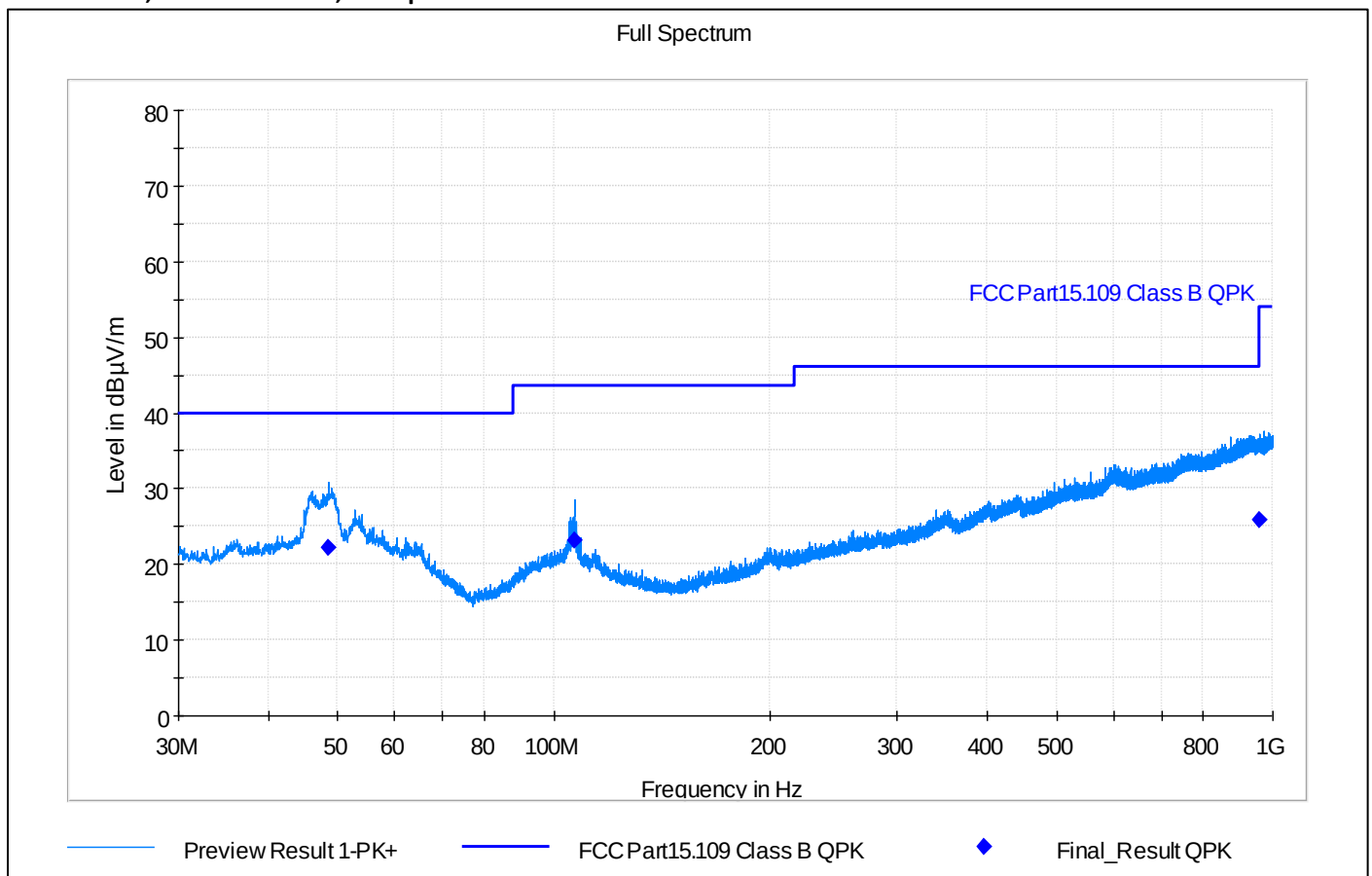
Test method: ANSI C63.4-2014 + C63.4a-2017 (8.1 – 8.3)

Limits			
Frequency (MHz)	Detector	Field strength (uV/m)	Measurement distance (m)
30 – 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
> 1000	Average	500	3

Test procedure	
1. EUT is placed on a non conducting support at the center of a turn table 0.8m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360 degrees (orientation varied), measurements were made in both horizontal and vertical planes of polarization 5. Found peak values were further maximized by adjusting turntable position $\pm 22,5$ degrees around detected value and scanning the antenna height 1 to 4m 6. For maximized values, final measurement was done with the corresponding final detector.	

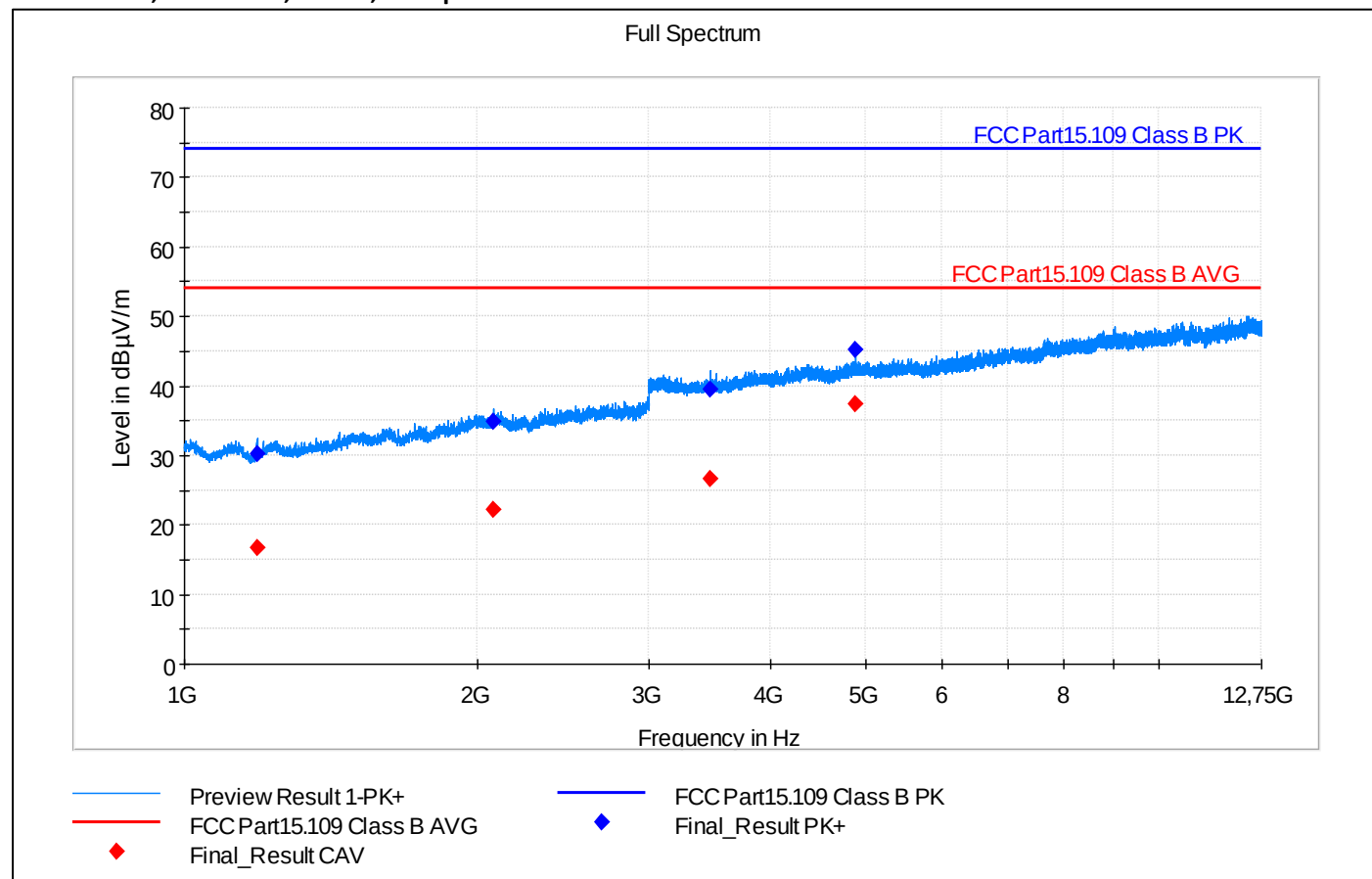
Operation mode(s)	Configuration	Test Verdict
Bluetooth LE RX, 1 Mbps	Mid channel, 2440 MHz	PASS
Bluetooth LE RX, 2 Mbps	Mid channel, 2440 MHz	PASS

Mid channel, 30 MHz – 1 GHz, 1 Mbps



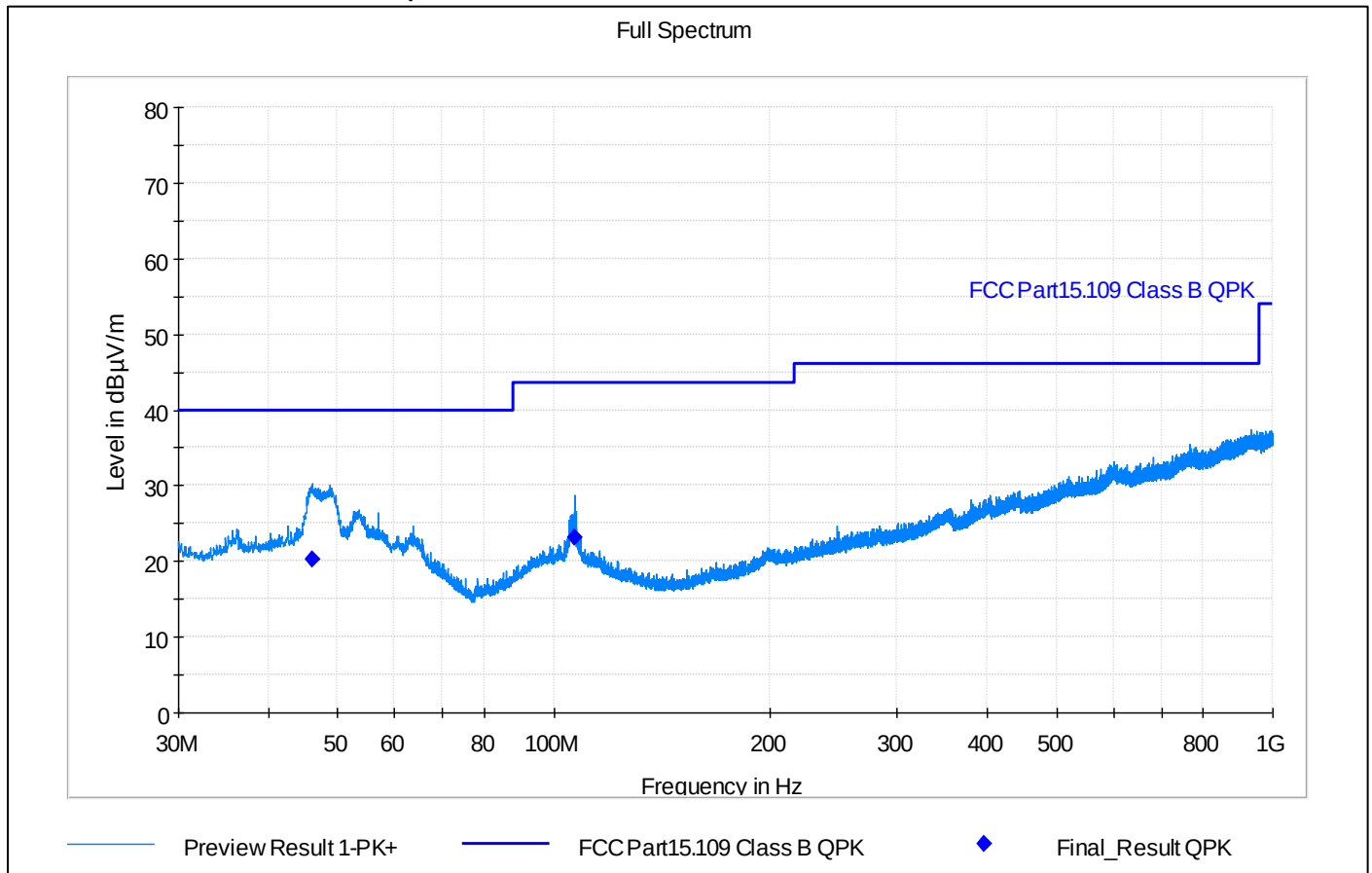
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
48.600	22.19	40.0	17.81	15000	120	98.0	V	-17	0	21.1	PASS
106.740	23.11	43.5	20.39	15000	120	100.0	V	279	0	19.5	PASS
957.180	25.89	46.0	20.11	15000	120	148.0	V	71	0	34.2	PASS

Mid channel, 1 GHz – 12,75 GHz, 1 Mbps

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
1187.250	---	16.73	54.0	37.27	500	1000	216.0	H	58	-7.7	PASS
1187.250	30.22	---	74.0	43.78	500	1000	216.0	H	58	-7.7	PASS
2079.750	34.85	---	74.0	39.15	500	1000	286.0	V	-5	-0.8	PASS
2079.750	---	22.10	54.0	31.90	500	1000	286.0	V	-5	-0.8	PASS
3468.000	39.52	---	74.0	34.48	500	1000	126.0	H	68	6.4	PASS
3468.000	---	26.66	54.0	27.34	500	1000	126.0	H	68	6.4	PASS
4878.000	---	37.29	54.0	16.71	500	1000	171.0	V	-3	10.6	PASS
4878.000	45.25	---	74.0	28.75	500	1000	171.0	V	-3	10.6	PASS

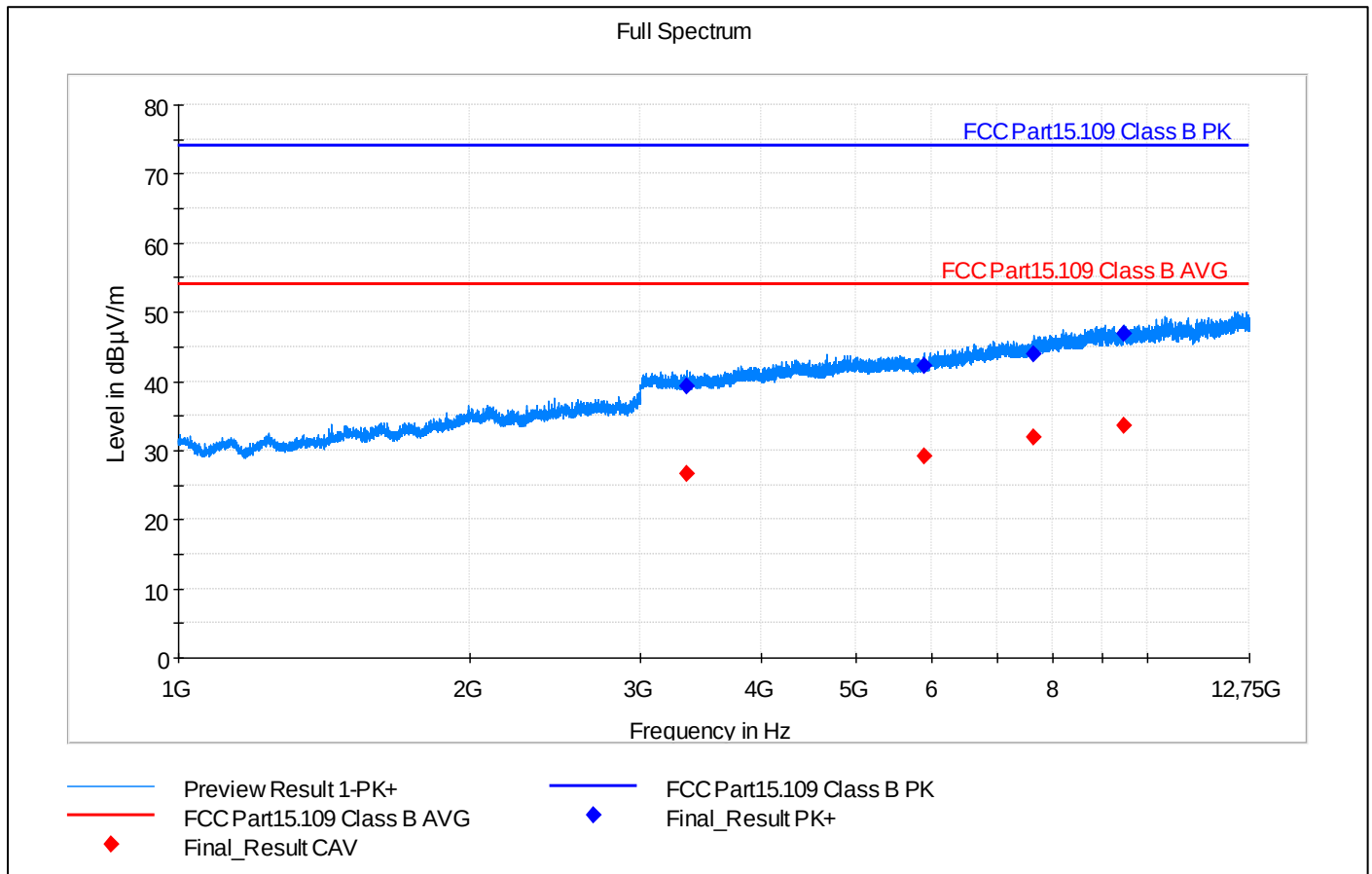
Mid channel, 30 MHz – 1 GHz, 2 Mbps



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)	Comment
46.050	20.25	40.0	19.75	15000	120	104.0	V	122	0	20.9	PASS
106.710	23.10	43.5	20.40	15000	120	106.0	V	158	0	19.5	PASS

Mid channel, 1 GHz – 12,75 GHz, 2 Mbps



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
3352.500	39.20	---	74.0	34.80	500	1000	272.0	H	133	6.4	PASS
3352.500	---	26.49	54.0	27.51	500	1000	272.0	H	133	6.4	PASS
5885.500	---	29.18	54.0	24.82	500	1000	255.0	H	84	12.1	PASS
5885.500	42.16	---	74.0	31.84	500	1000	255.0	H	84	12.1	PASS
7625.750	44.00	---	74.0	30.00	500	1000	144.0	H	61	16.7	PASS
7625.750	---	31.81	54.0	22.19	500	1000	144.0	H	61	16.7	PASS
9481.000	---	33.46	54.0	20.54	500	1000	191.0	H	305	19.5	PASS
9481.000	46.91	---	74.0	27.09	500	1000	191.0	H	305	19.5	PASS

20. Photographs

EUT and test setup photographs are in separate Annex.