

Annex 1: Measurement diagrams 22-1-0032102T001a-A1-C01

Number of pages:	47	Date of Report:	2023-May-24
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Nexxiot AG
Product: Model:	Tracker device Globehopper Edge		
FCC ID:	2AXRX-AC2A	IC:	26682-AC2A
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR Subchapter A § 15.247 Operation within the bands 2400-2483.5 MHz ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus RSS-247, Issue 2 Digital Transmission Systems (DTS)		

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1 Measurement diagrams

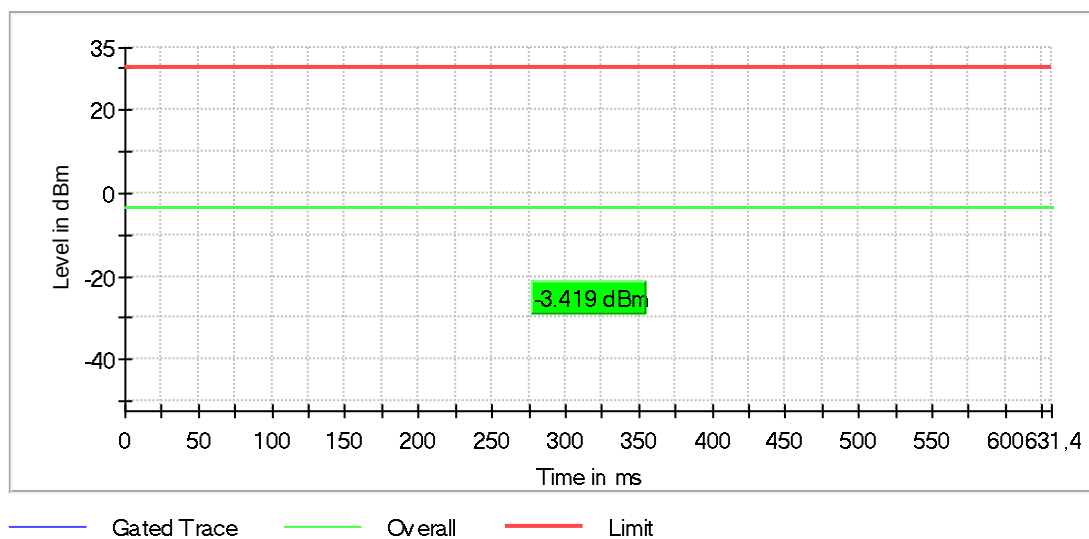
Duty-Cycle (2402 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2402.000000	-3.4	30.0	-3.4	63.340	PASS

Gated Trace



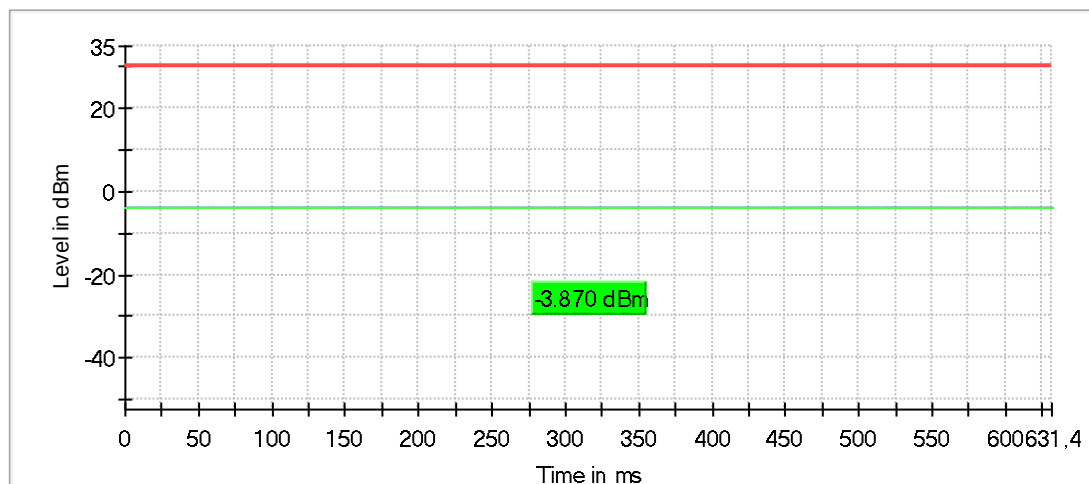
Duty-Cycle (2440 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2440.000000	-3.9	30.0	-3.9	63.339	PASS

Gated Trace



— Gated Trace — Overall — Limit

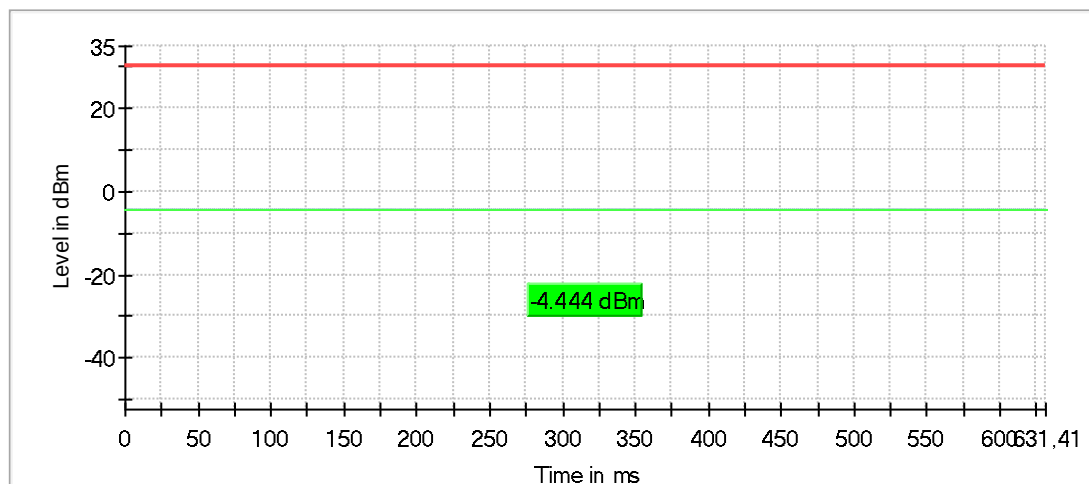
Duty-Cycle (2480 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2480.000000	-4.4	30.0	-4.4	63.340	PASS

Gated Trace



— Gated Trace — Overall — Limit

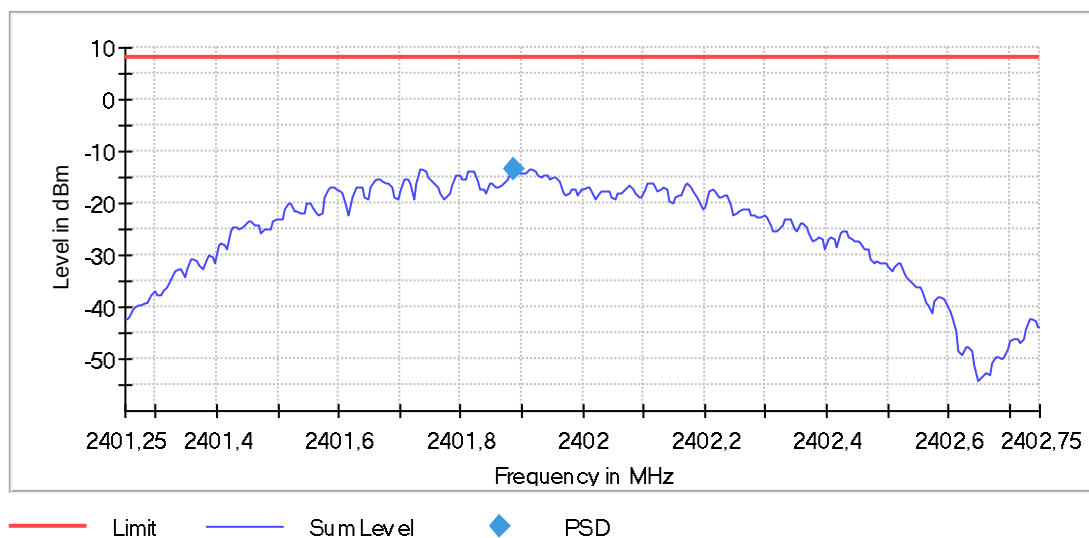
Peak Power Spectral Density (2402 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.887500	-13.354	8.0	PASS

Peak Power Spectral Density



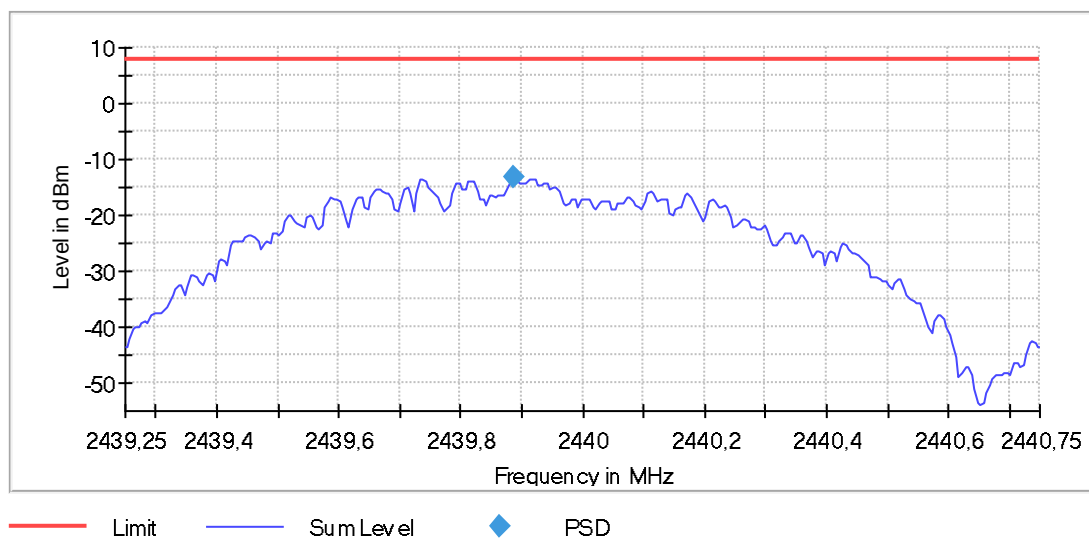
Peak Power Spectral Density (2440 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.887500	-13.380	8.0	PASS

Peak Power Spectral Density



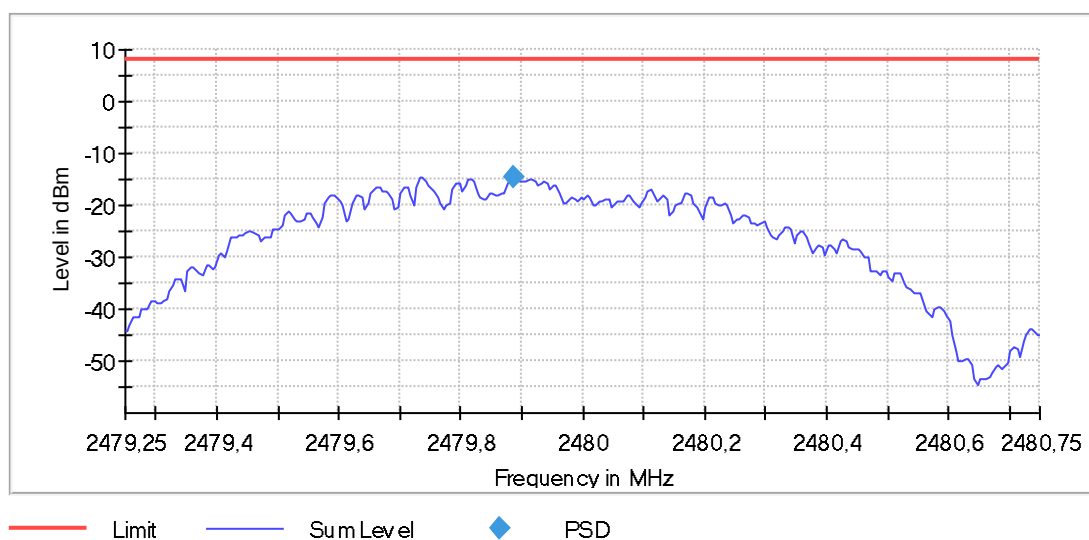
Peak Power Spectral Density (2480 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.887500	-14.646	8.0	PASS

Peak Power Spectral Density



Minimum Emission Bandwidth 6 dB (2402 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

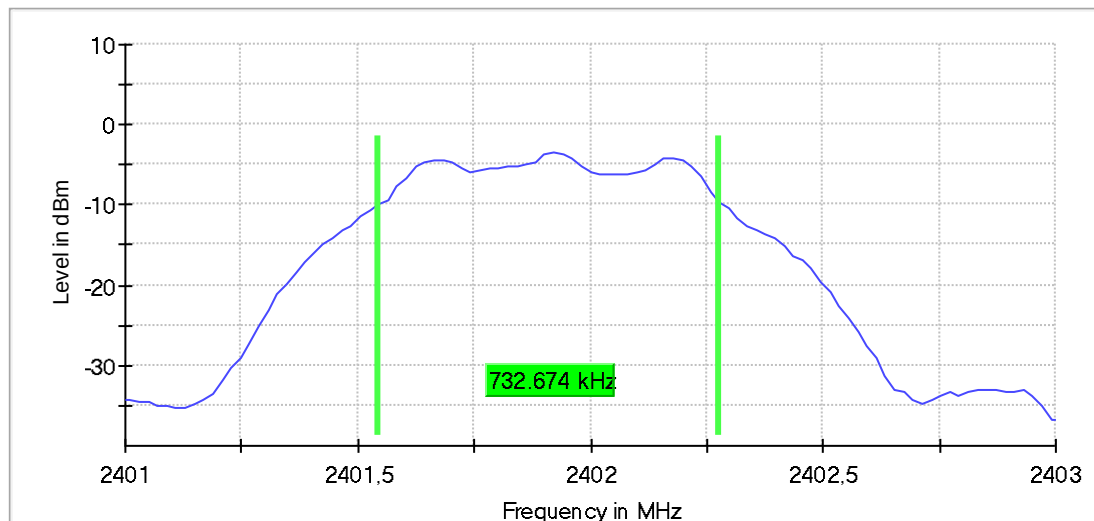
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.732674	0.500000	---	2401.544554	2402.277228

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-3.5	PASS

6 dB Bandwidth



Minimum Emission Bandwidth 6 dB (2440 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

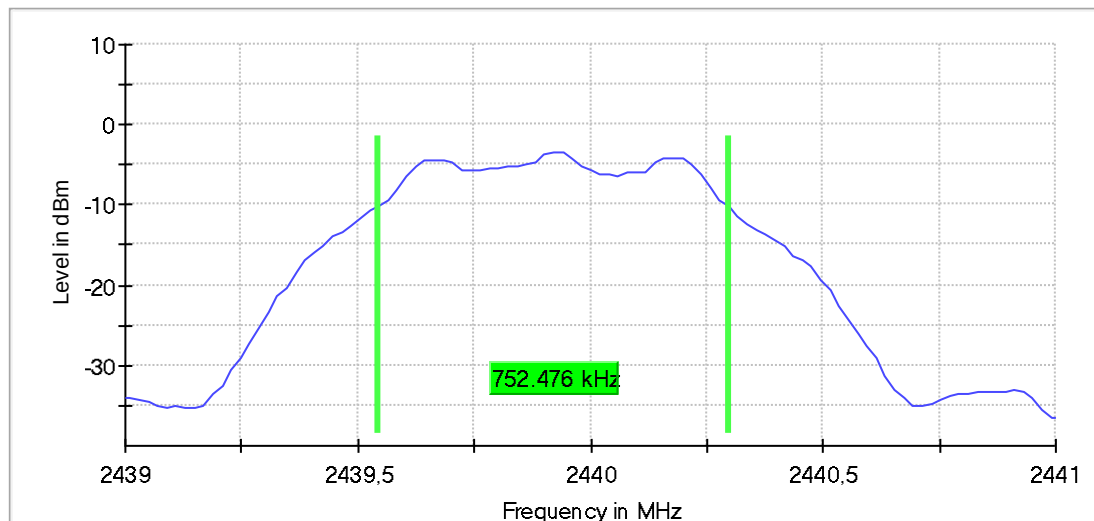
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.752476	0.500000	---	2439.544554	2440.297030

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-3.5	PASS

6 dB Bandwidth



Minimum Emission Bandwidth 6 dB (2480 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

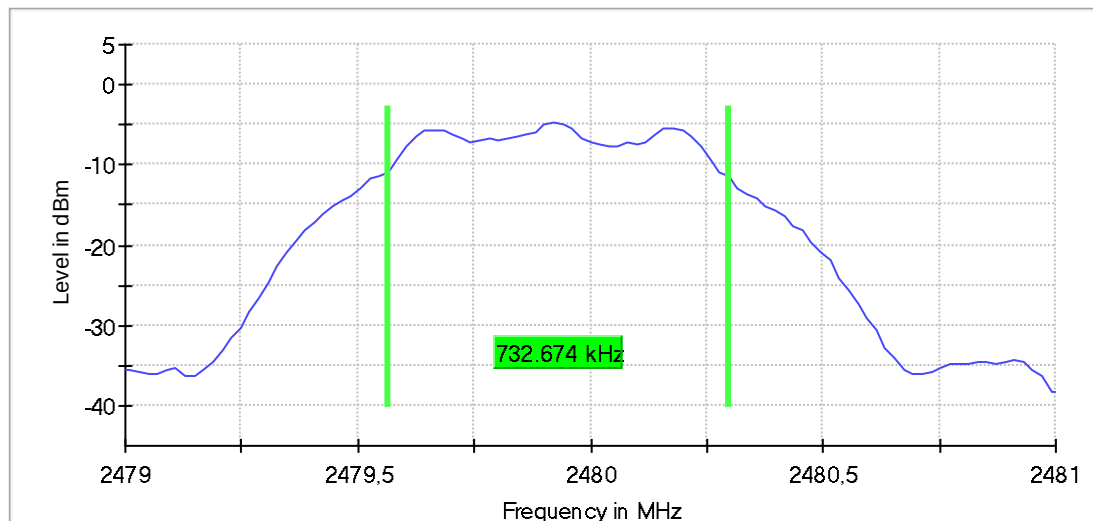
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.732674	0.500000	---	2479.564356	2480.297030

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-4.8	PASS

6 dB Bandwidth



Occupied Channel Bandwidth 99% (2402 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

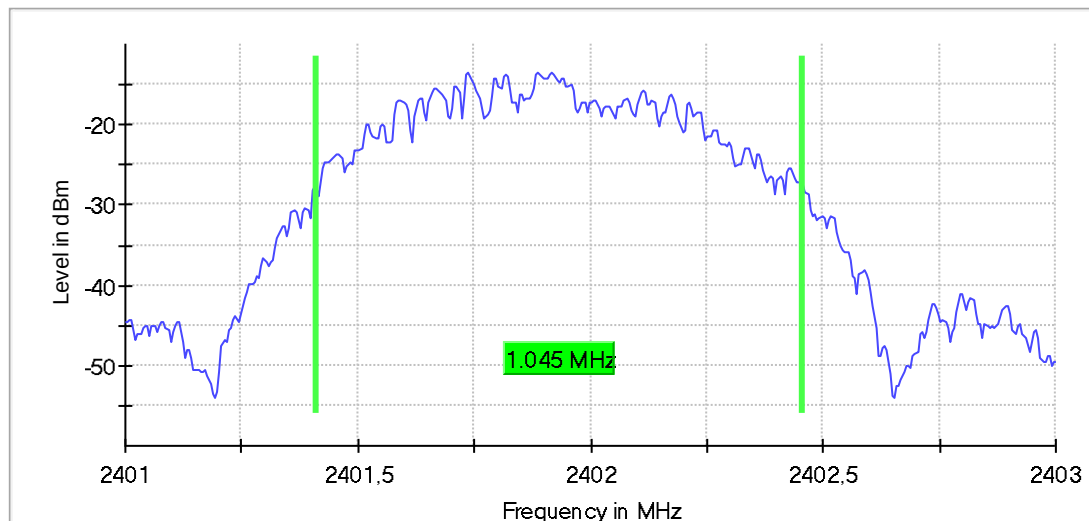
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.045000	---	---	2401.412500	2402.457500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 %Bandwidth



Occupied Channel Bandwidth 99% (2440 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

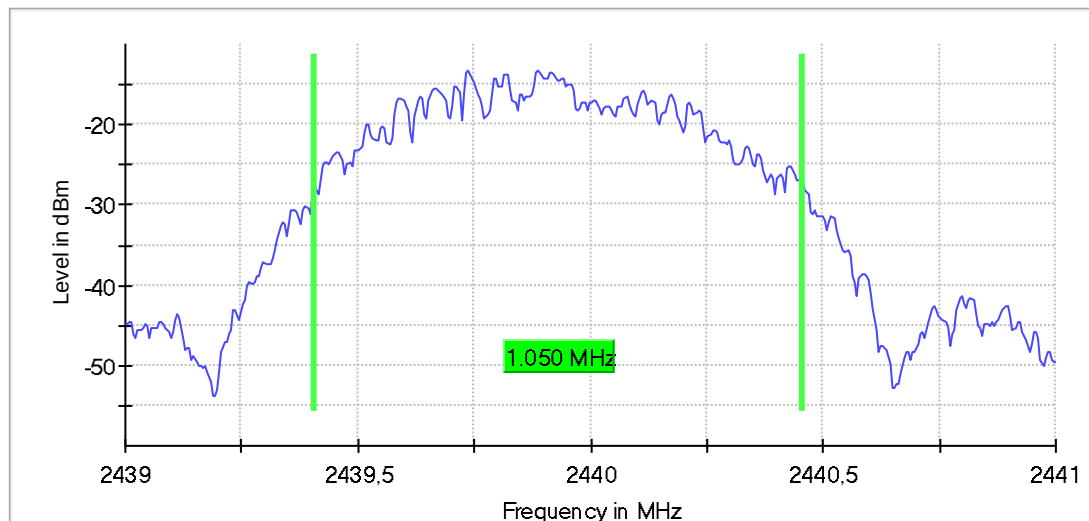
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.050000	---	---	2439.407500	2440.457500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 %Bandwidth



Occupied Channel Bandwidth 99% (2480 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

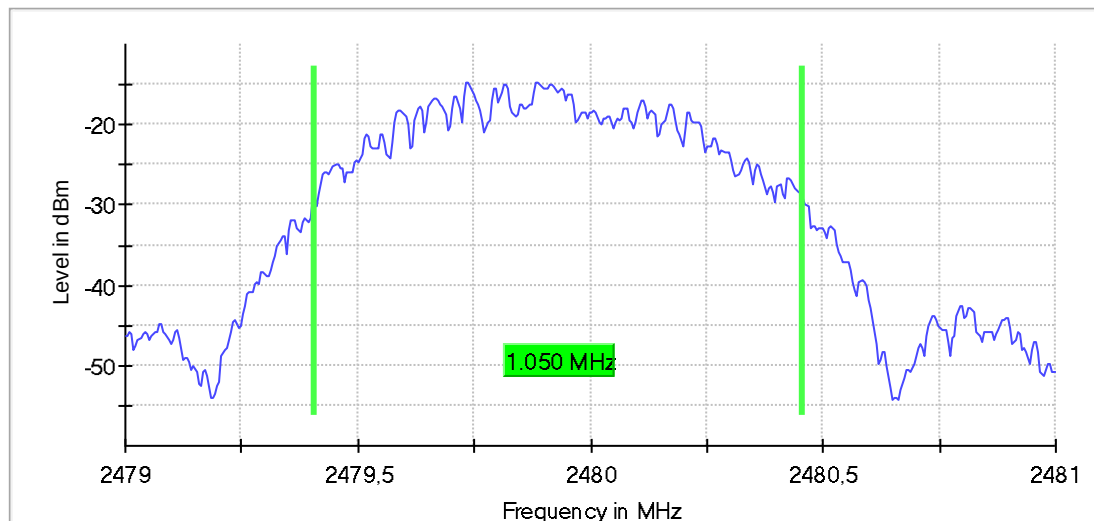
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.050000	---	---	2479.407500	2480.457500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 %Bandwidth



Tx Spurious Emission (2402 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.958664	-3.6	-69.4	-21.7	47.7	PASS

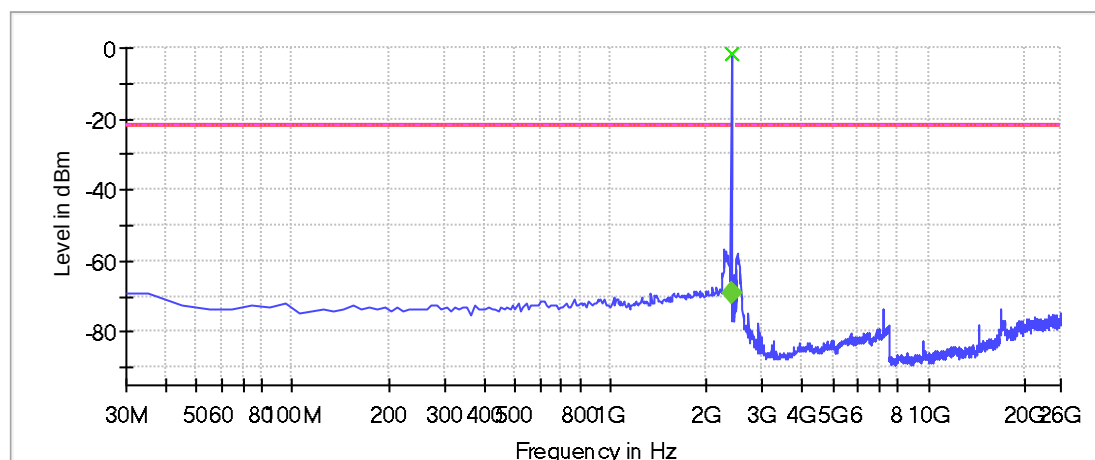
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	-1.6	-20.1	-21.7
2265.567227	-56.6	34.9	-21.7
2305.399160	-57.2	35.5	-21.7
2498.491394	-58.0	36.3	-21.7
2315.357143	-58.2	36.6	-21.7
2325.315126	-58.3	36.6	-21.7
2285.483193	-58.5	36.8	-21.7
2528.474182	-59.2	37.5	-21.7
2488.497131	-59.4	37.7	-21.7
2295.441176	-59.9	38.2	-21.7
2518.479919	-60.1	38.4	-21.7
2335.273109	-60.4	38.7	-21.7
2508.485657	-60.7	39.0	-21.7
2345.231092	-61.0	39.3	-21.7
2275.525210	-61.6	39.9	-21.7

Measurement Settings

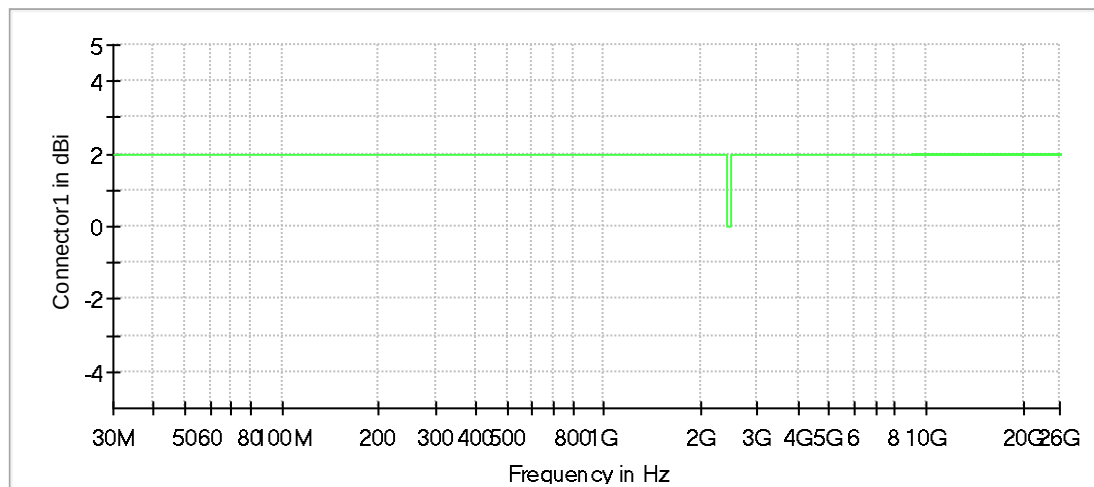
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious



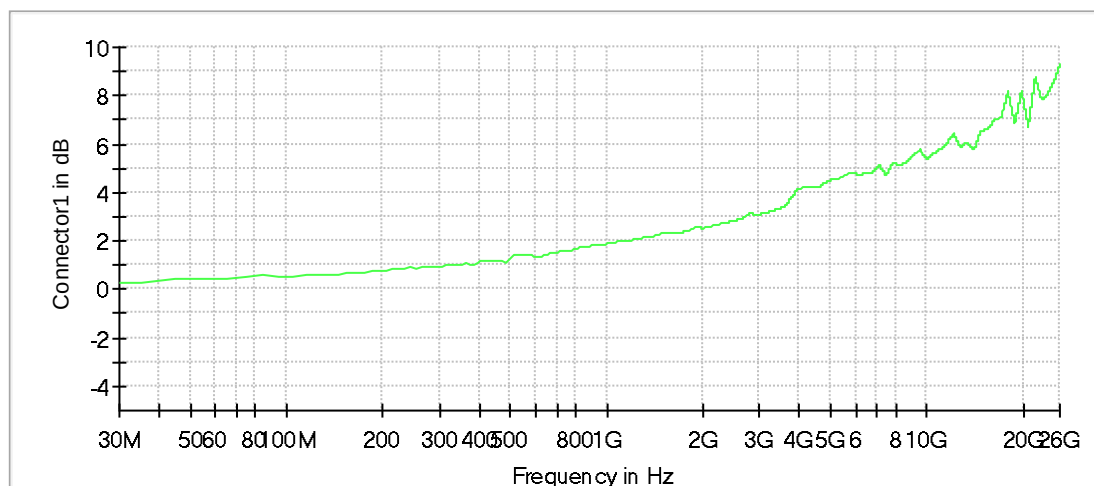
x Limit Final Critical
 ◆ Sum Level Fail
 ◆ Threshold Pass
 x Critical

Gain



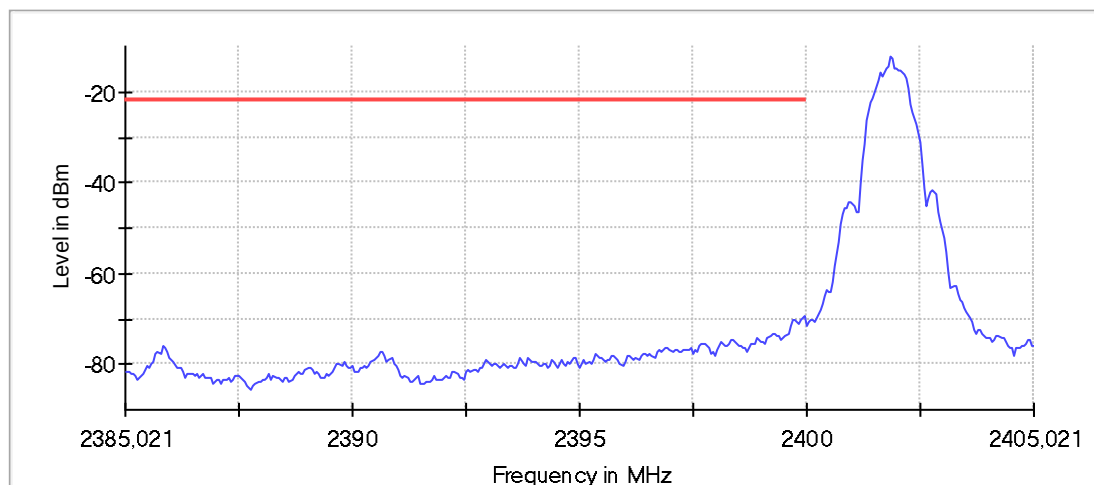
Connector1

Attenuation



Connector1

FinalMeas_2395021008Hz



Sum Level Limit

Tx Spurious Emission (2440 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2440.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

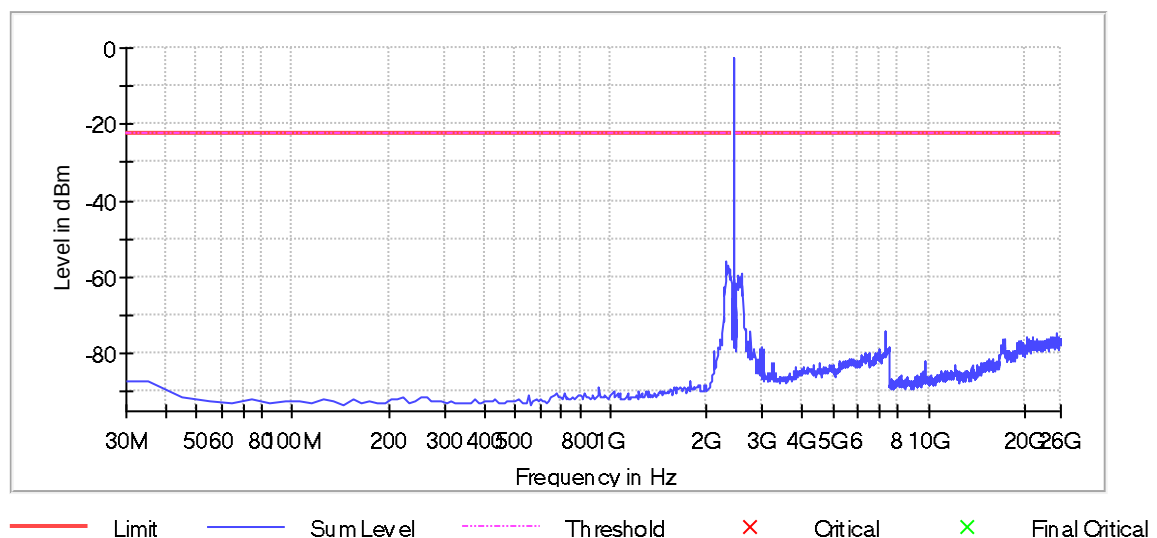
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2305.399160	-56.0	33.4	-22.6
2345.231092	-56.6	34.0	-22.6
2365.147059	-57.7	35.1	-22.6
2335.273109	-58.2	35.6	-22.6
2325.315126	-58.5	35.9	-22.6
2568.451232	-59.2	36.5	-22.6
2528.474182	-59.4	36.8	-22.6
2385.063025	-59.6	36.9	-22.6
2315.357143	-59.6	37.0	-22.6
2355.189076	-59.8	37.1	-22.6
2548.462707	-59.9	37.2	-22.6
2508.485657	-60.1	37.5	-22.6
2375.105042	-60.4	37.8	-22.6
2295.441176	-60.9	38.2	-22.6
2395.021008	-61.4	38.8	-22.6

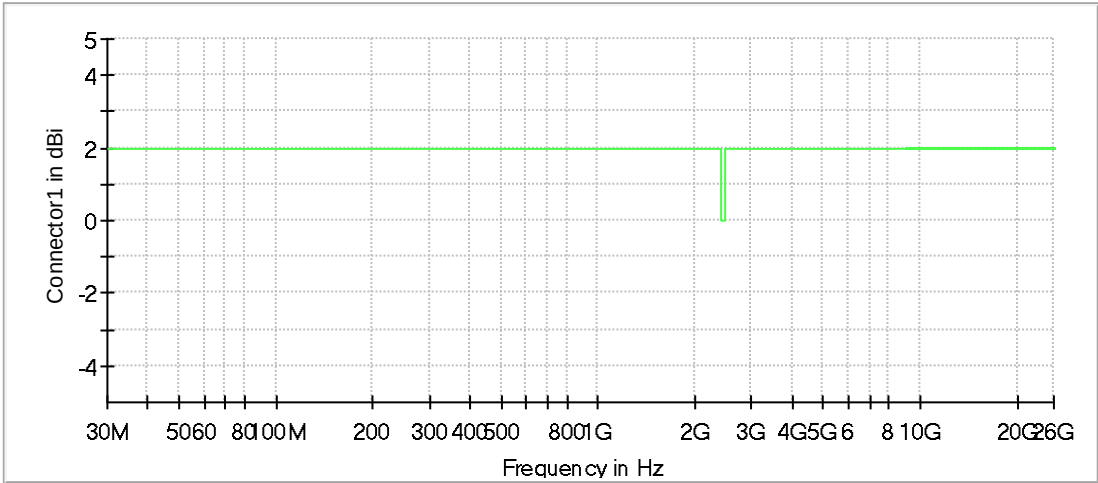
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious

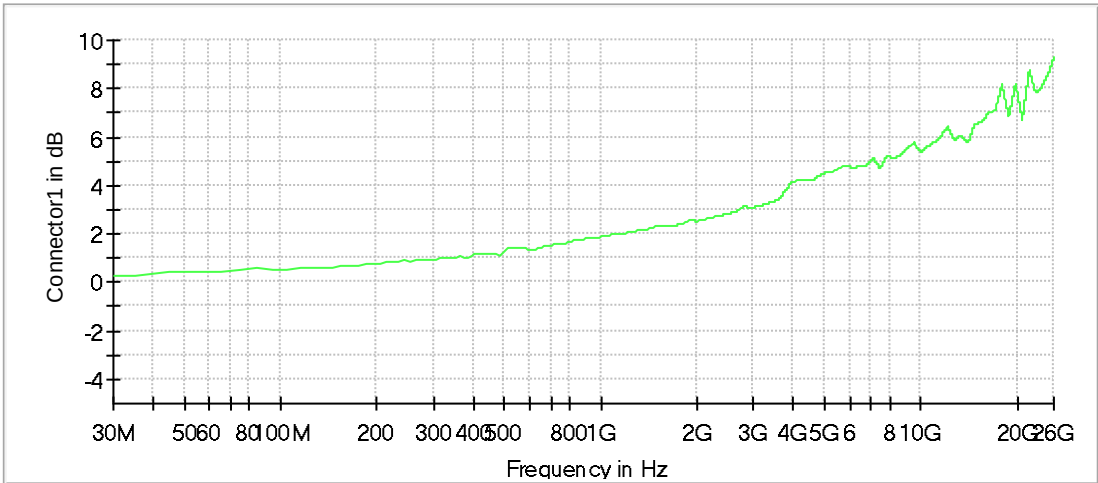


Gain



Connector1

Attenuation



Connector1

Tx Spurious Emission (2480 MHz; BT-LE [GFSK] (8 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

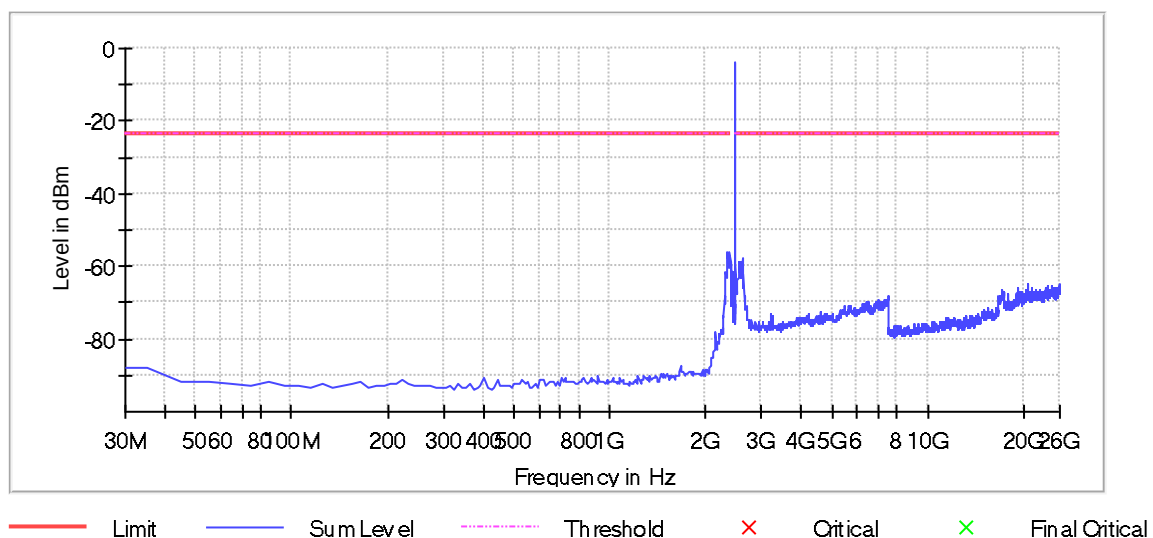
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2345.231092	-55.9	32.2	-23.7
2385.063025	-56.2	32.5	-23.7
2365.147059	-57.0	33.3	-23.7
2608.428283	-57.6	33.9	-23.7
2395.021008	-58.5	34.9	-23.7
2375.105042	-58.6	35.0	-23.7
2568.451232	-58.8	35.1	-23.7
2548.462707	-58.8	35.2	-23.7
2588.439758	-59.0	35.4	-23.7
2488.497131	-59.2	35.6	-23.7
2355.189076	-60.4	36.7	-23.7
2315.357143	-61.3	37.7	-23.7
2558.456970	-61.4	37.7	-23.7
2335.273109	-61.5	37.9	-23.7
2618.422546	-61.7	38.1	-23.7

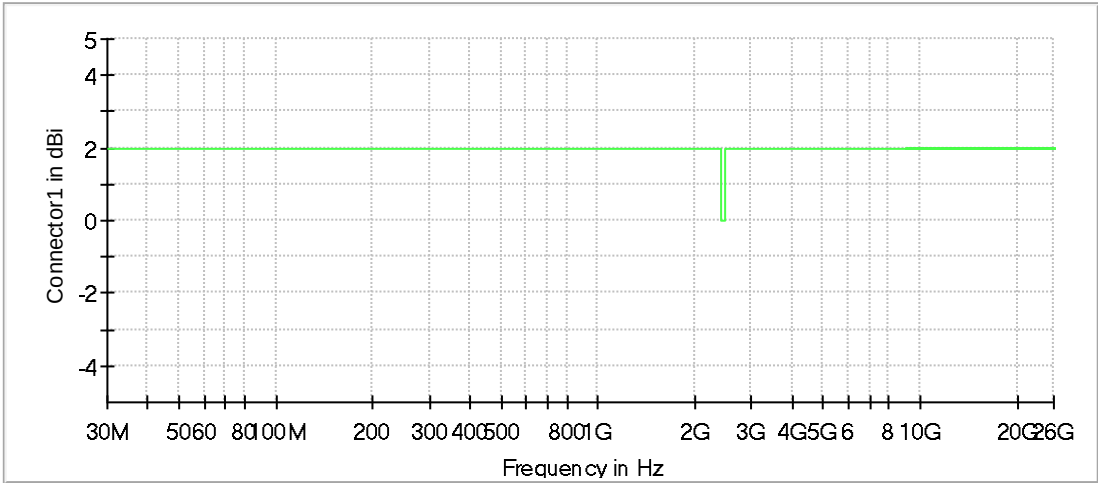
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious

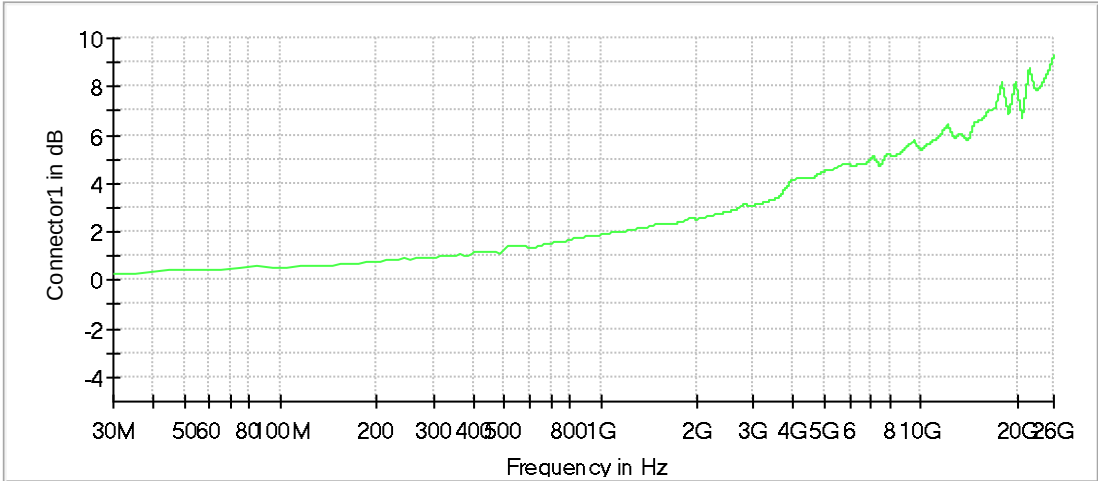


Gain



Connector1

Attenuation



Connector1

2.01a_BT_LE_low_lying

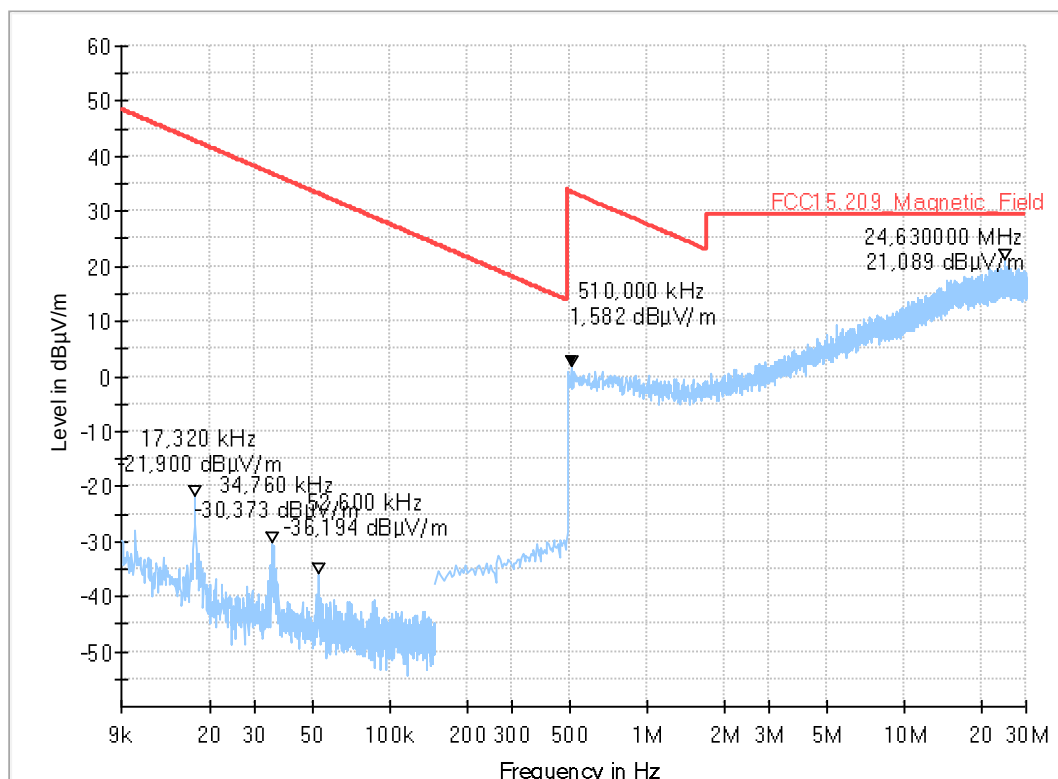
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	BLE ch0 pwr 4dBm
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



2.01b_BT_LE_low_standing

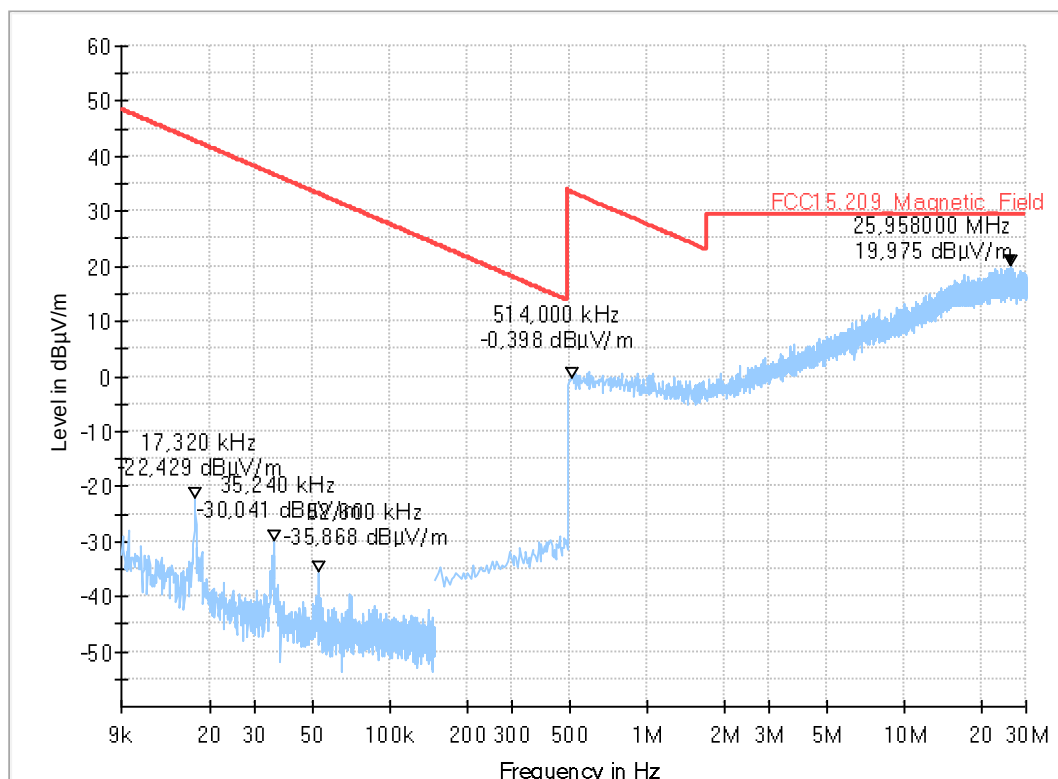
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	BLE ch0 pwr 4dBm
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



2.02a_BT_LE_mid_lying

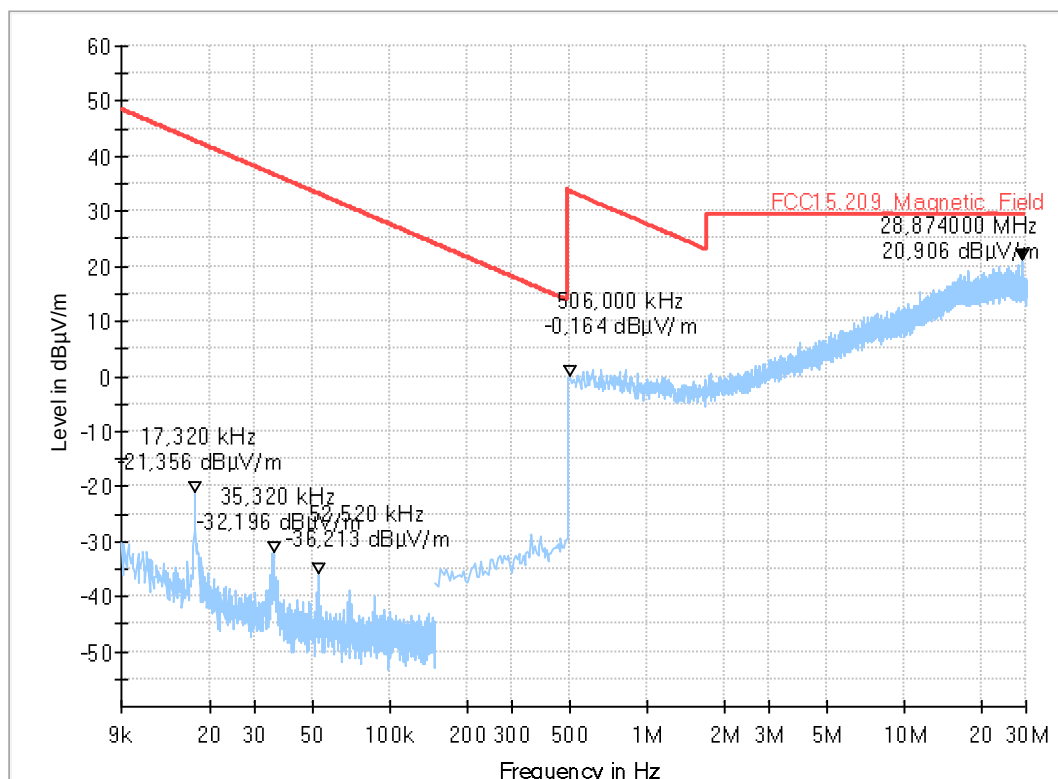
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	BLE ch19 pwr 4dBm
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



2.02b_BT_LE_mid_standing

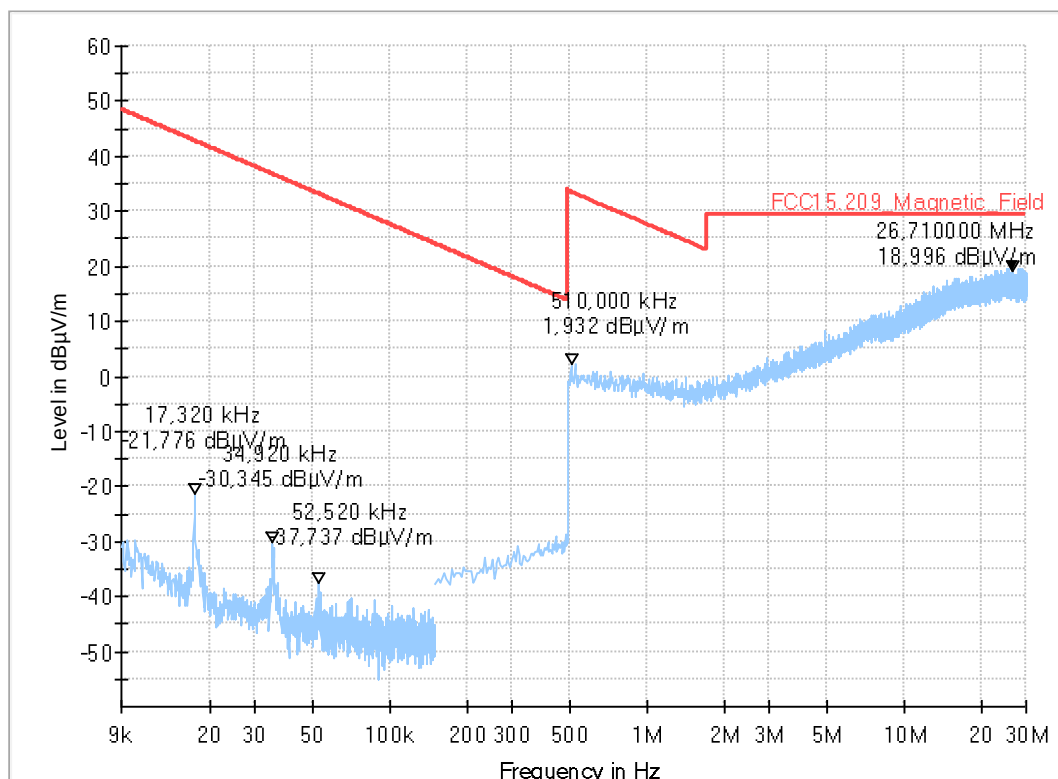
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	BLE ch19 pwr 4dBm
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



2.03a_BT_LE_high_lying

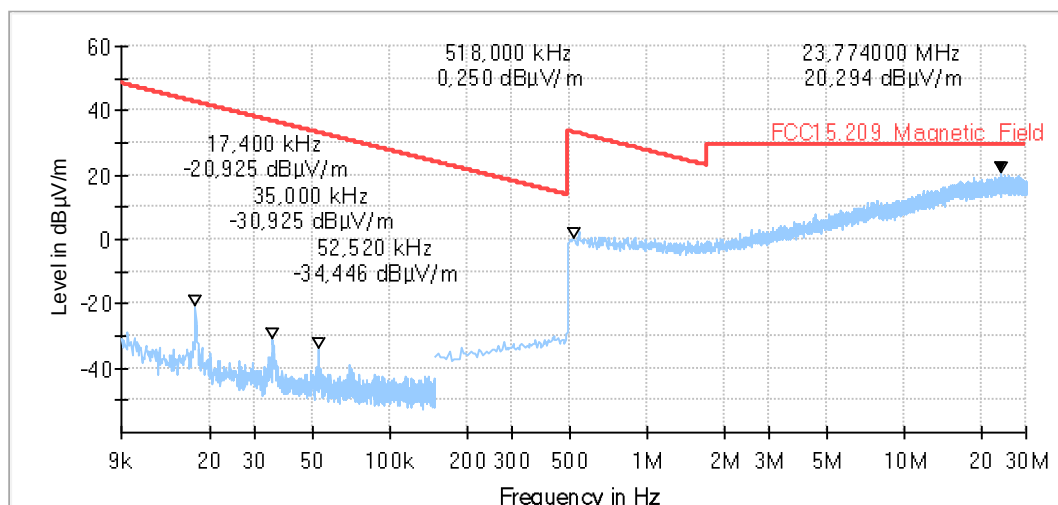
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	TFra
Operating Mode:	BLE ch39 pwr 4dBm
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



2.03b_BT_LE_high_standing

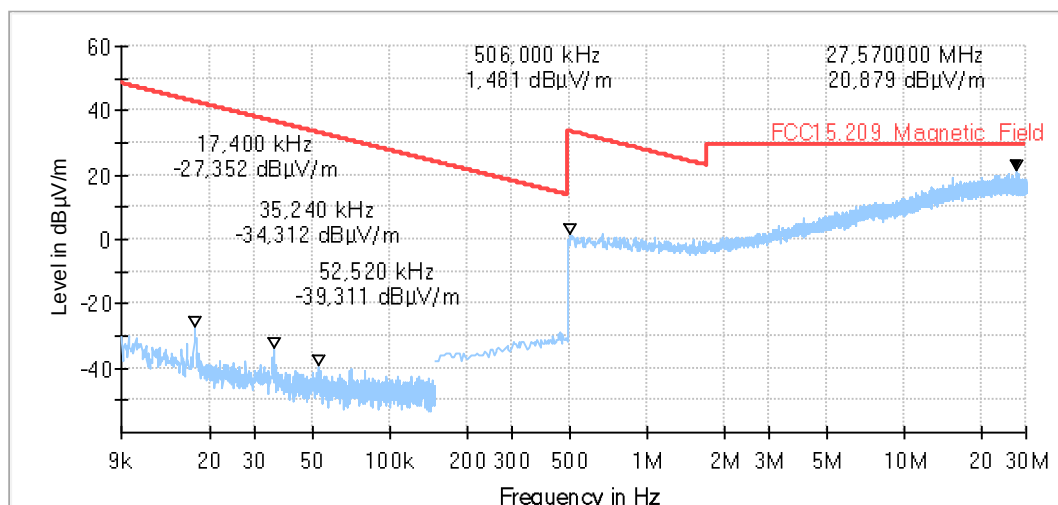
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	TFra
Operating Mode:	BLE ch39 pwr 4dBm
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number	22-1-00321S31_C01
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Full Spectrum



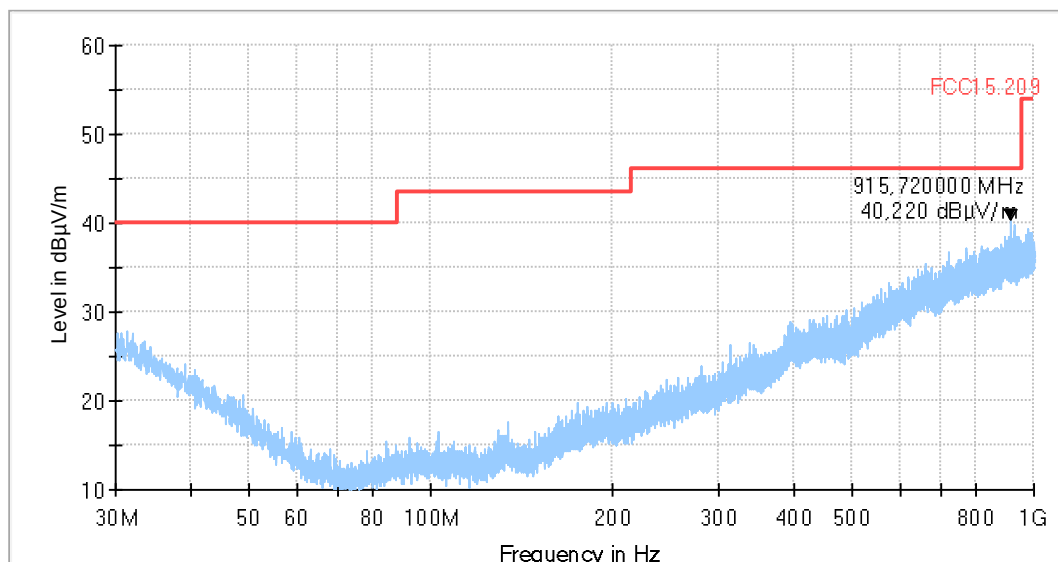
3.01a_BT_LE_low_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
Operator Name:	SOz
Operating Mode:	GFSK 1Mbit ch0
Power supply:	Battery
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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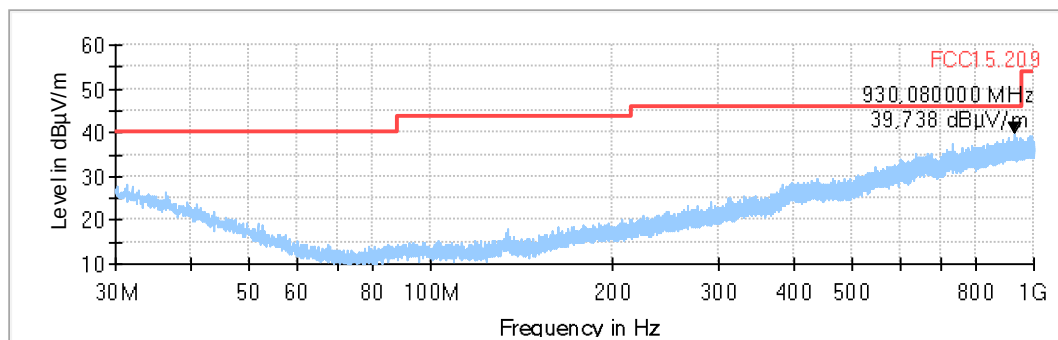
3.01b_BT_LE_low_laying

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions::	Humidity: 44 % rH; Temperature: 21 °C
Operator Name:	SOz
Operating Mode:	GFSK 1Mbit ch0
Power supply:	Battery
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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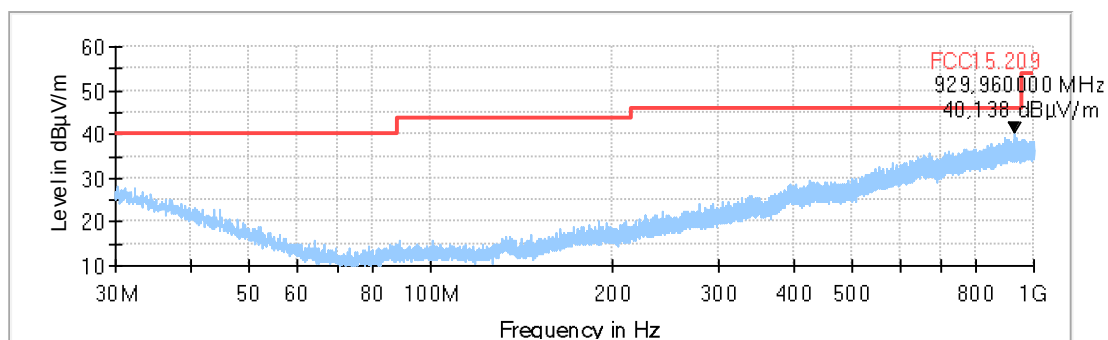
3.02_BT_LE_mid

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions::	Humidity: 44 % rH; Temperature: 21 °C
Operator Name:	SOz
Operating Mode:	GFSK 1Mbit ch19
Power supply:	Battery
Comment:	Channel no. middle
Verdict:	Passed

EUT Information

PMT number:	22-1-00321S18_C01
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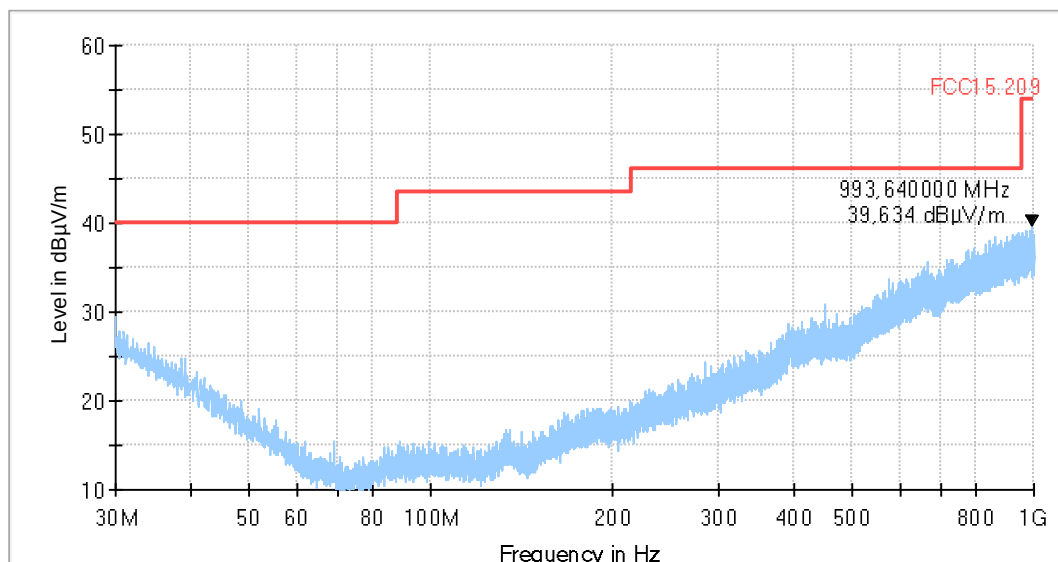
3.03_BT_LE_high

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 44%rH; Temperature: 21 °C
Operator Name:	SOz
Operating Mode:	GFSK 1Mbit ch39
Power supply:	Battery
Comment:	Channel no. high
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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4.01_BLE_low

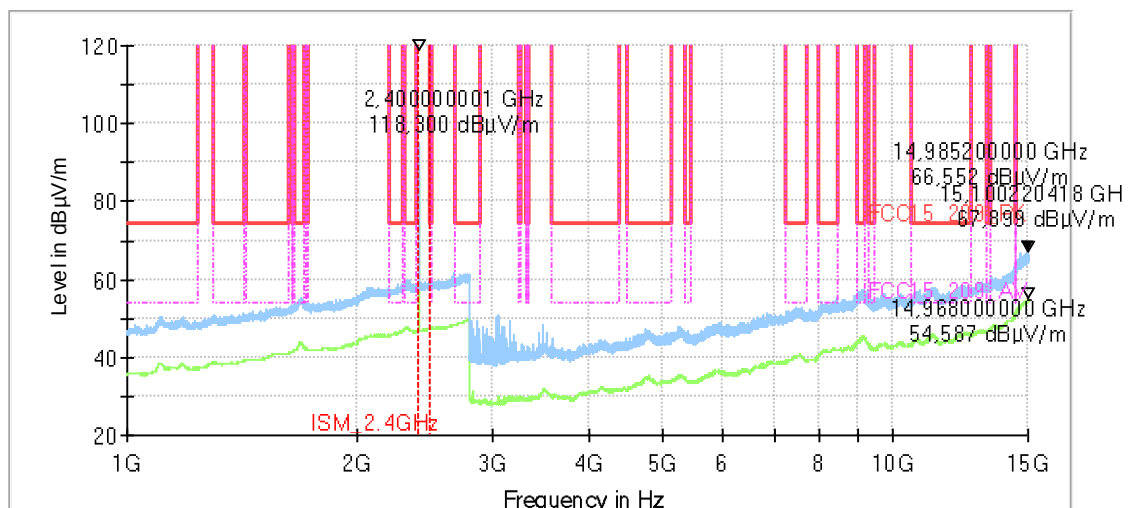
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps 2402MHz
Set-up no.	2
Operator:	PMA
Comment:	Channel no. low
Environmental Conditions::	Humidity: 51 % rH; Temperature: 21 °C
Verdict:	Passed

EUT Information

PMT number:	22-1-00321S31_C01
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Full Spectrum



4.02_BLE_mid

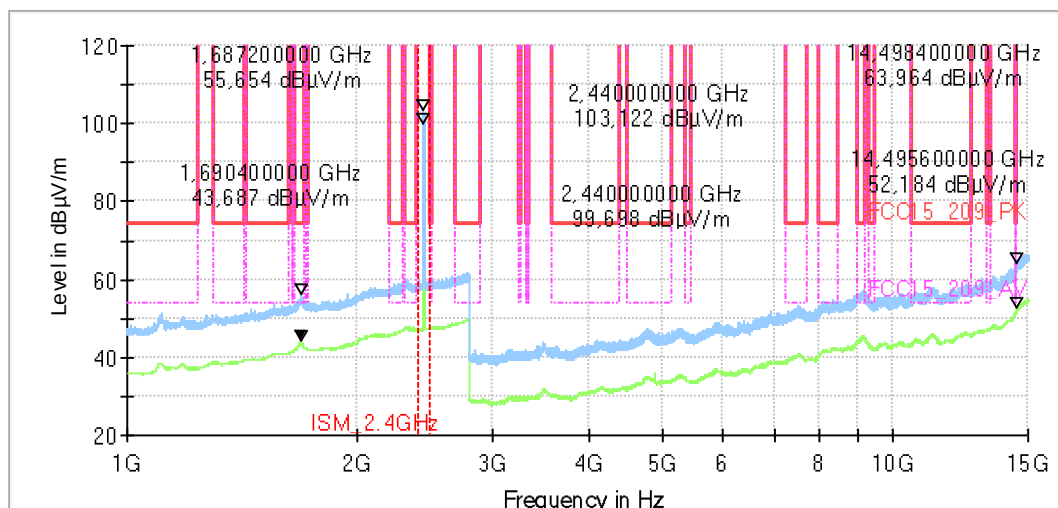
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps 2440MHz
Set-up no.	2
Operator:	Lor
Comment:	Channel no. middle
Environmental Conditions:	Humidity: 44 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number:	22-1-00321S31_C01
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Full Spectrum



4.03_BLE_high

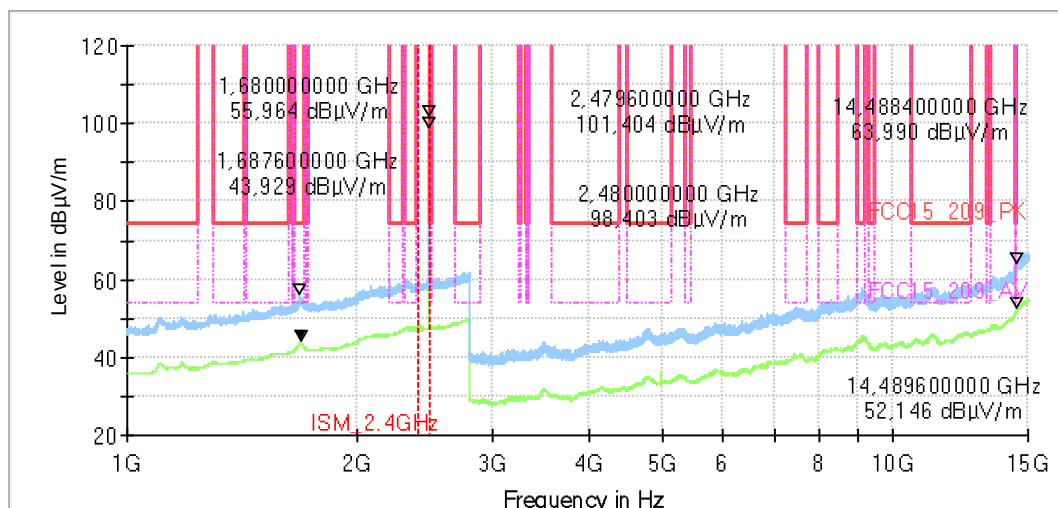
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps 2480MHz
Set-up no.	2
Operator:	TFra
Comment:	Channel no. high
Environmental Conditions:	Humidity: 44 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number:	22-1-00321S31_C01
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Full Spectrum



4.04a_BT_LE_low_laying

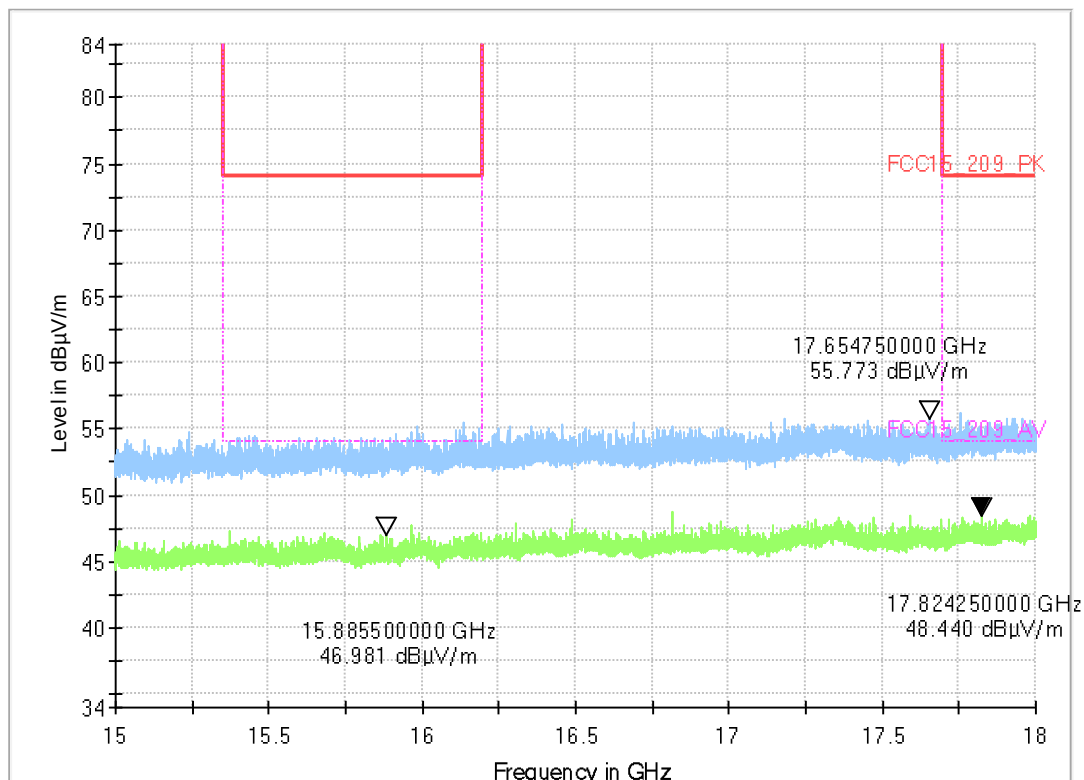
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch0 (2402MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.04b_BT_LE_low_standing

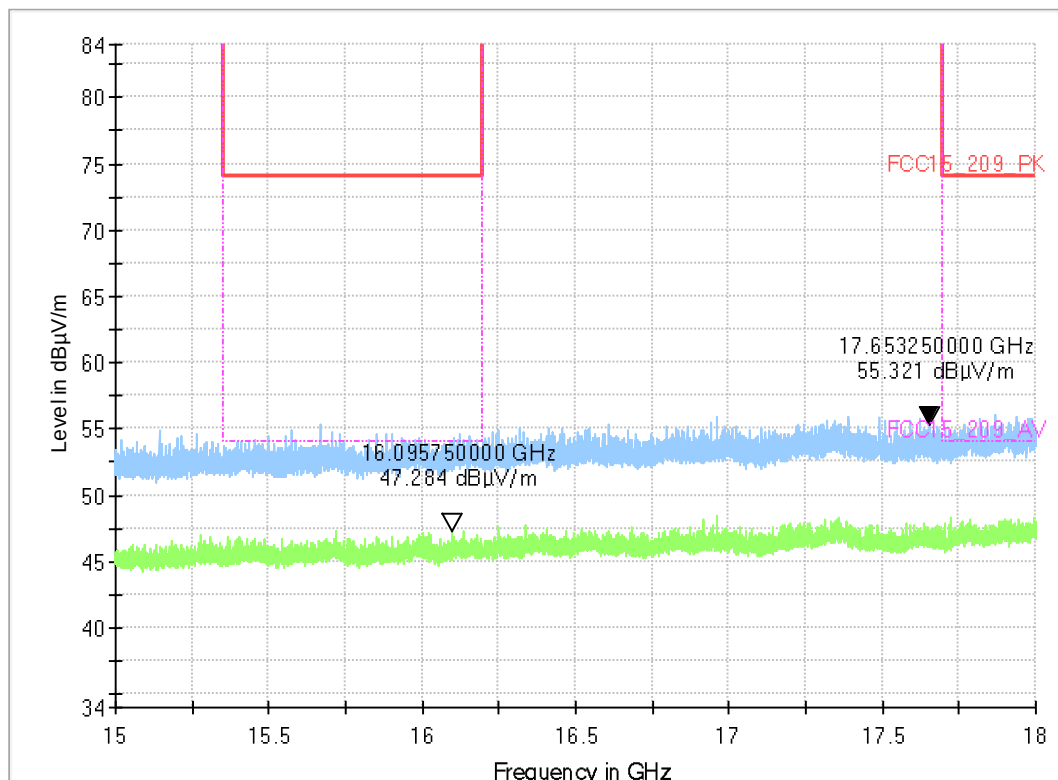
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch0 (2402MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.05a_BT_LE_mid_laying

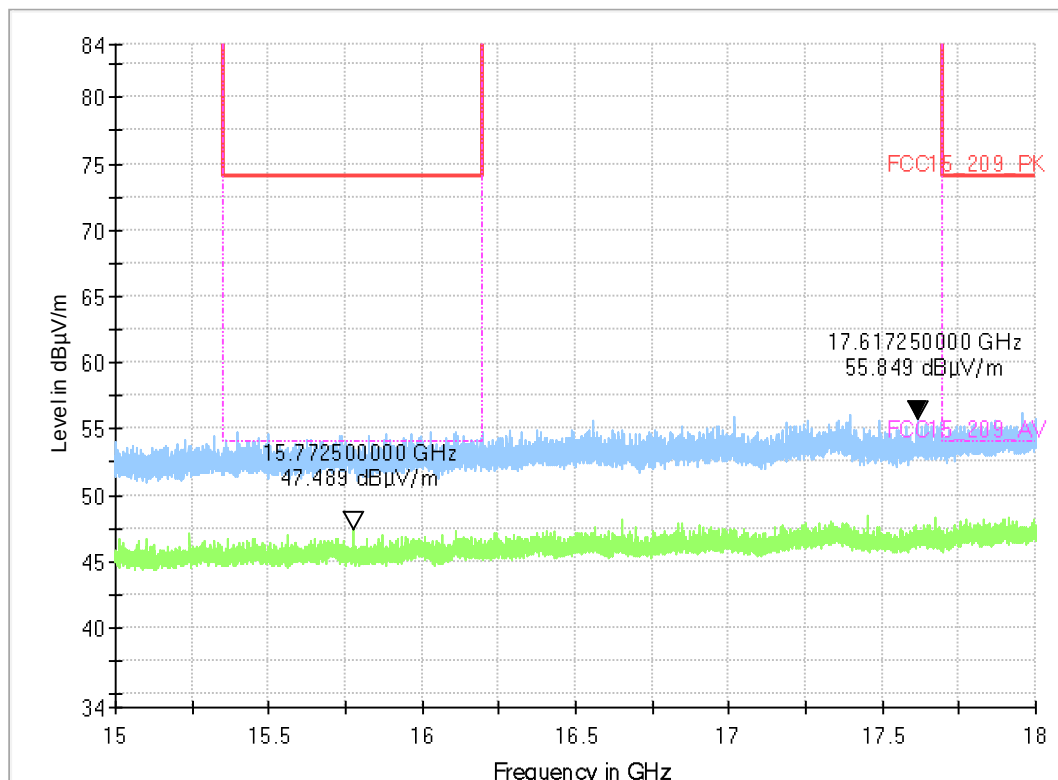
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch19 (2440MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.05b_BT_LE_mid_standing

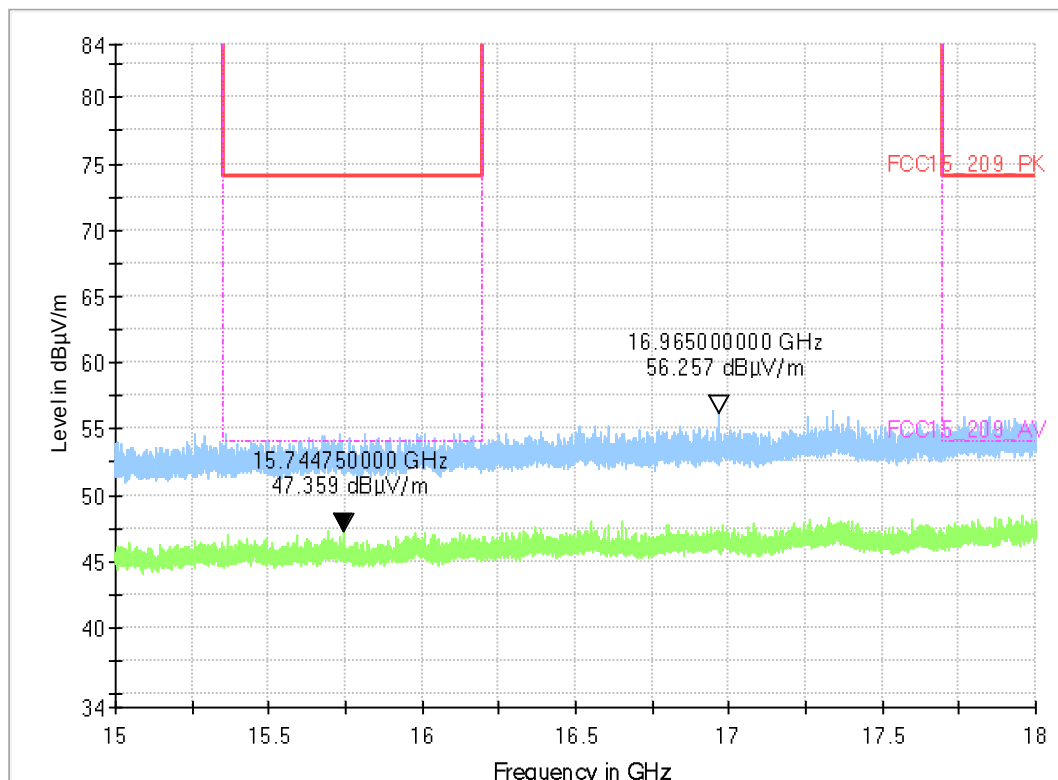
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch19 (2440MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.06a_BT_LE_high_laying

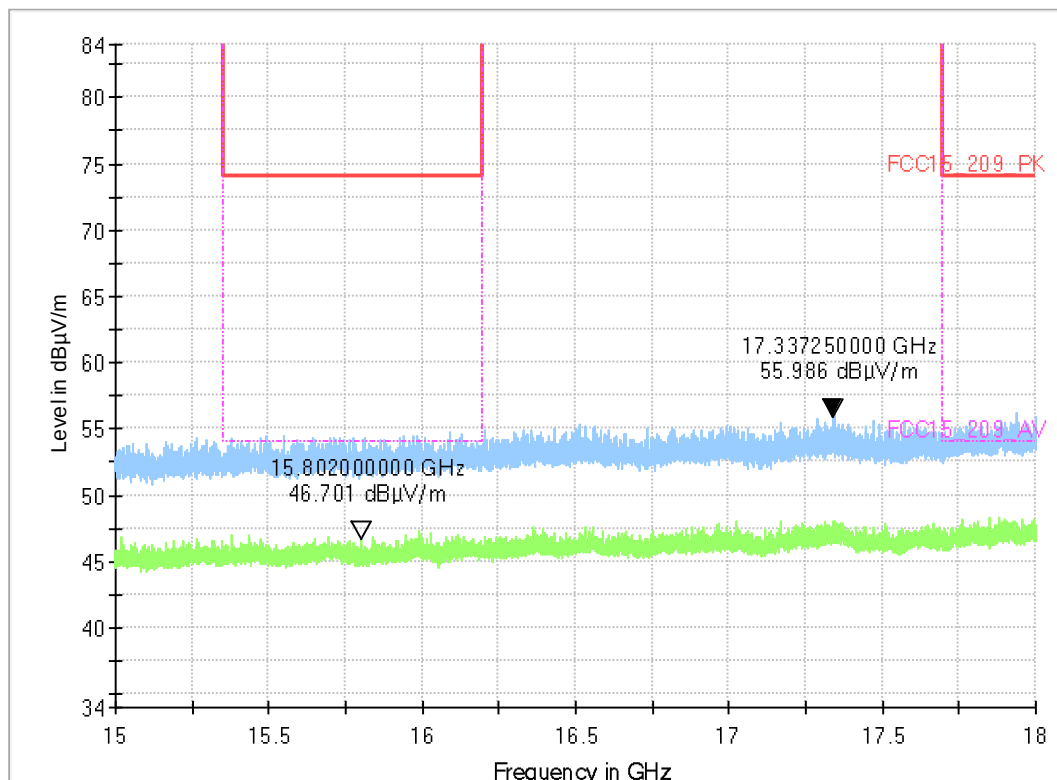
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch39 (2480MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.06b_BT_LE_high_standing

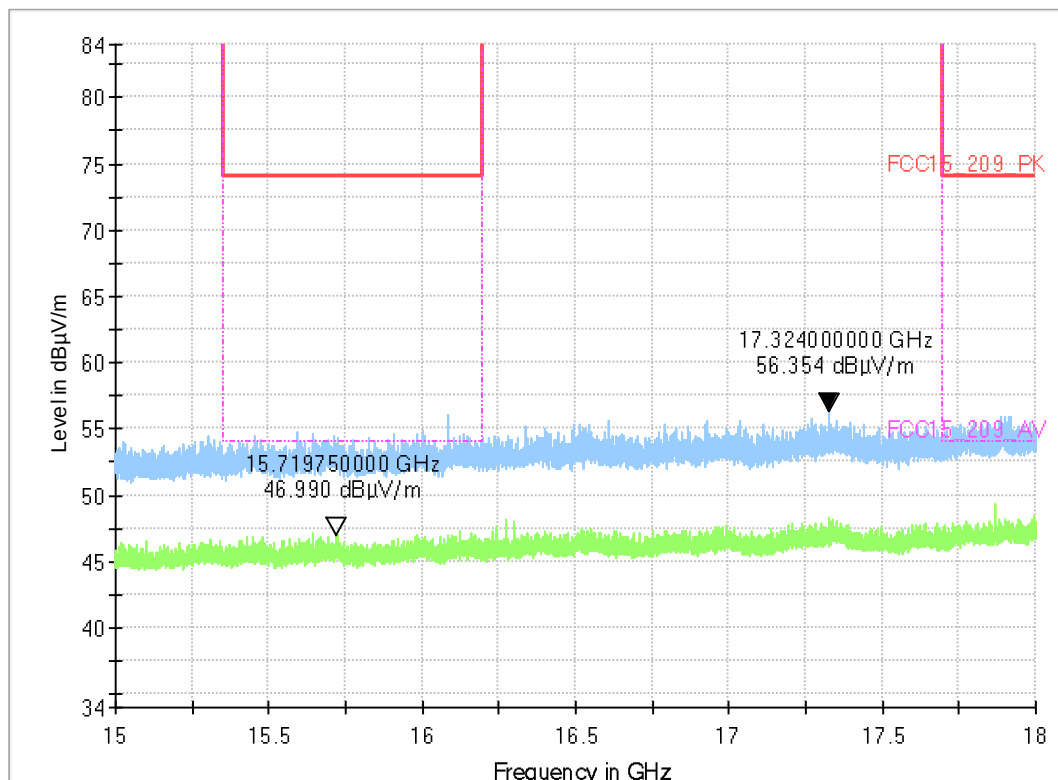
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch39 (2480MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number 22-1-00321S18_C01

Full Spectrum



4.07a_BT_LE_low_laying

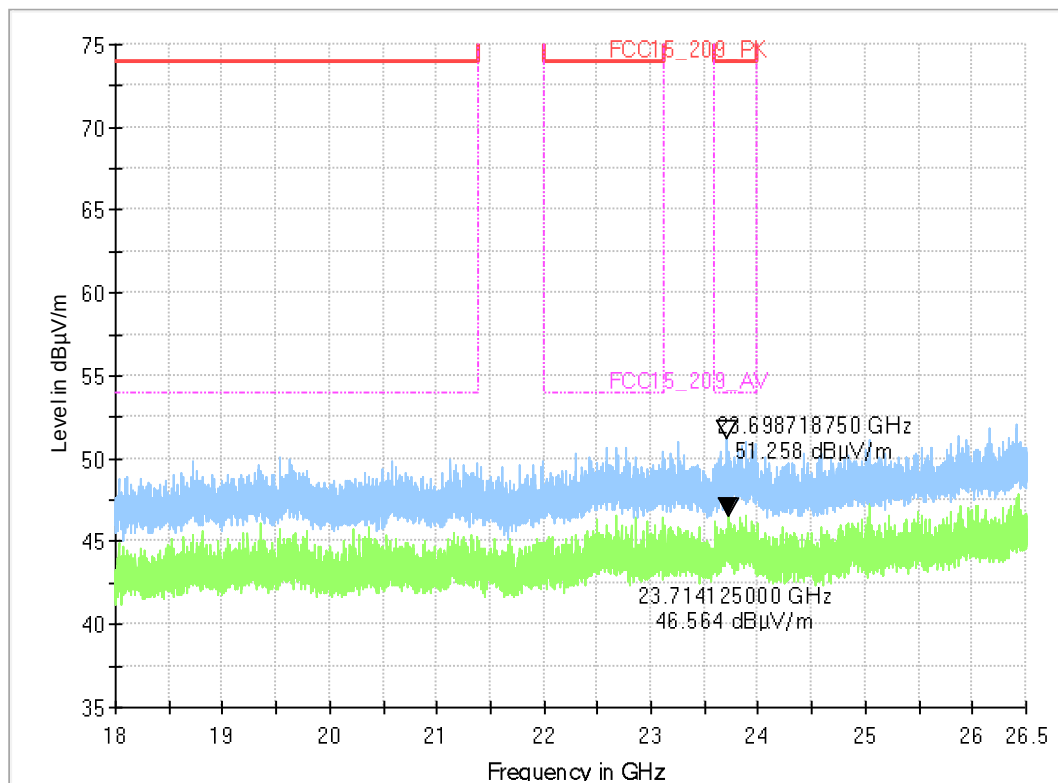
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch37 (2402MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.07b_BT_LE_low_standing

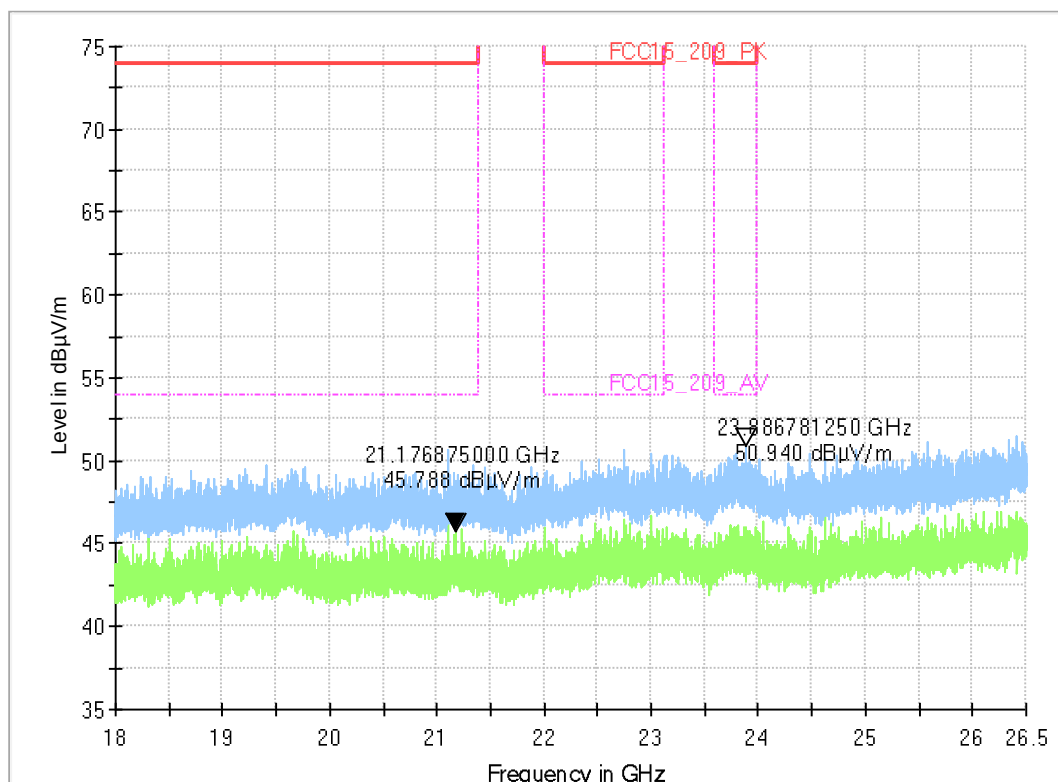
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch37 (2402MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



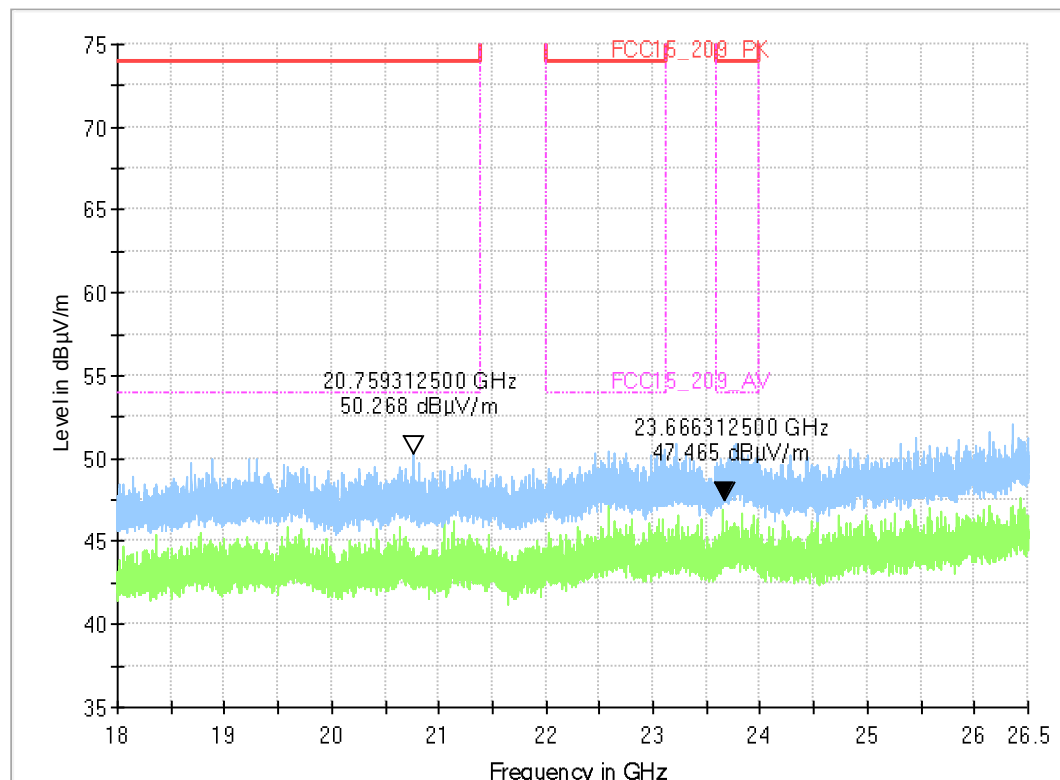
4.08a_BT_LE_mid_laying

Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch19 (2440MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
	Full Spectrum



4.08b_BT_LE_mid_standing

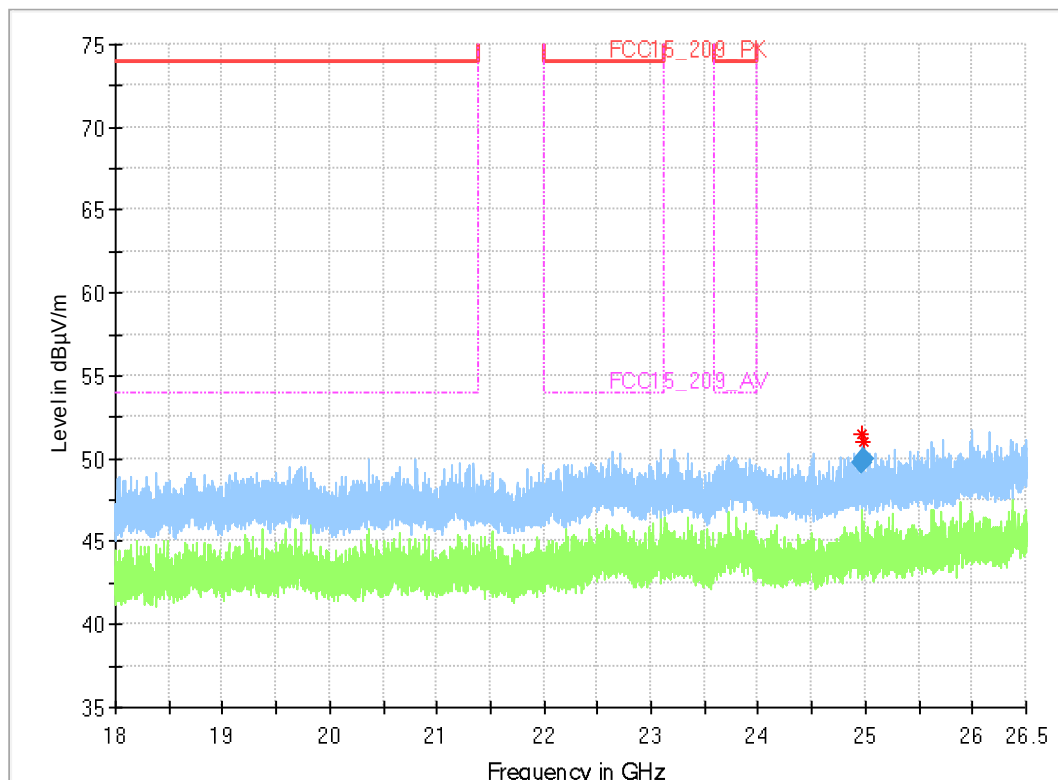
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch19 (2440MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



4.09a_BT_LE_high_laying

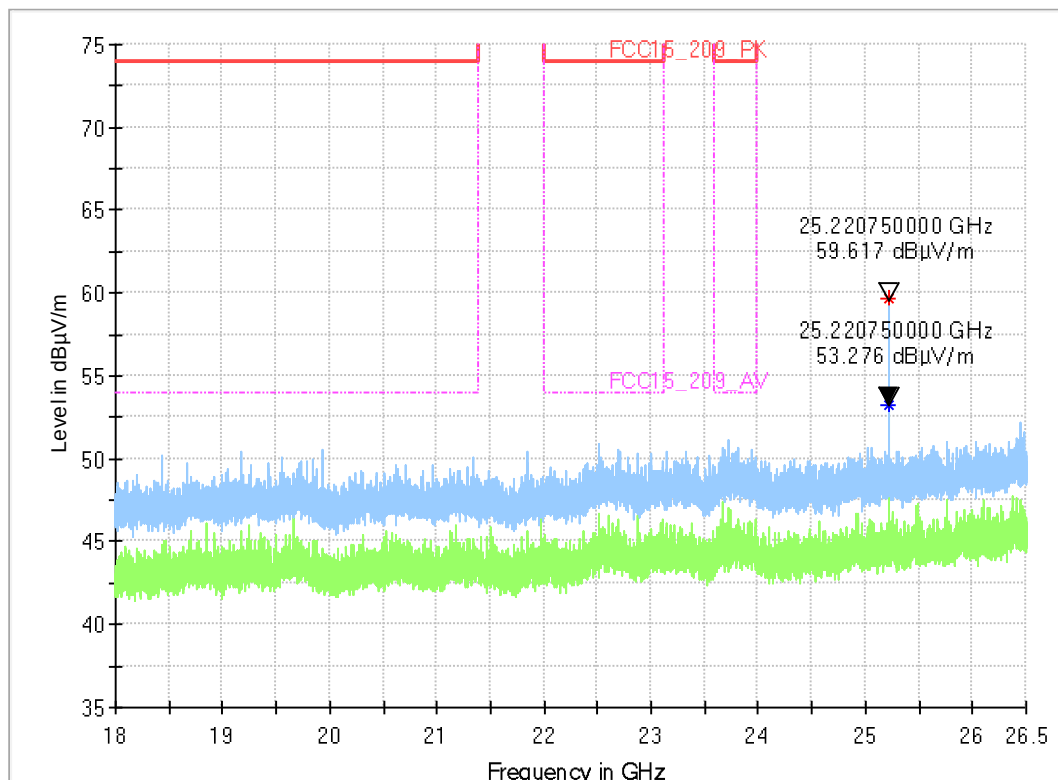
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch39 (2480MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
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Full Spectrum



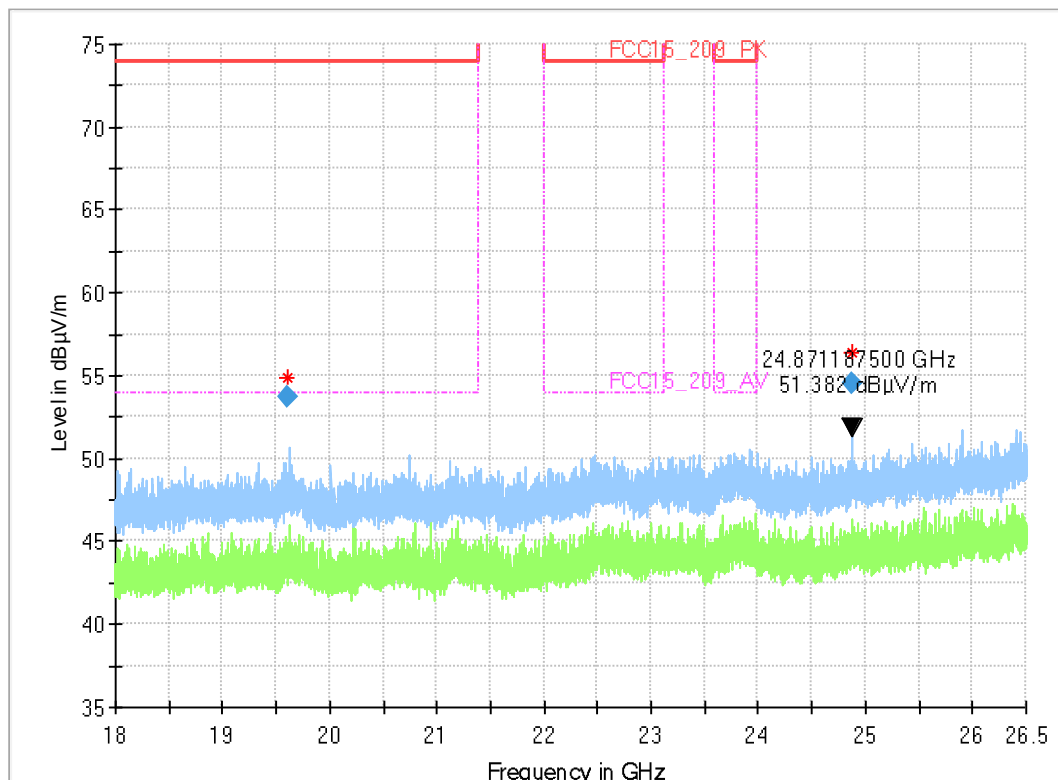
4.09b_BT_LE_high_standing

Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BT LE, 1MBit, Ch39 (2480MHz), 4dBm PWR
Environmental Conditions:	Humidity: 37 % rH; Temperature: 20.5 °C
SW-Version:	EMC32 V10.60.20
Operator:	Lor
Verdict:	Passed

EUT Information

PMT number	22-1-00321S18_C01
	Full Spectrum



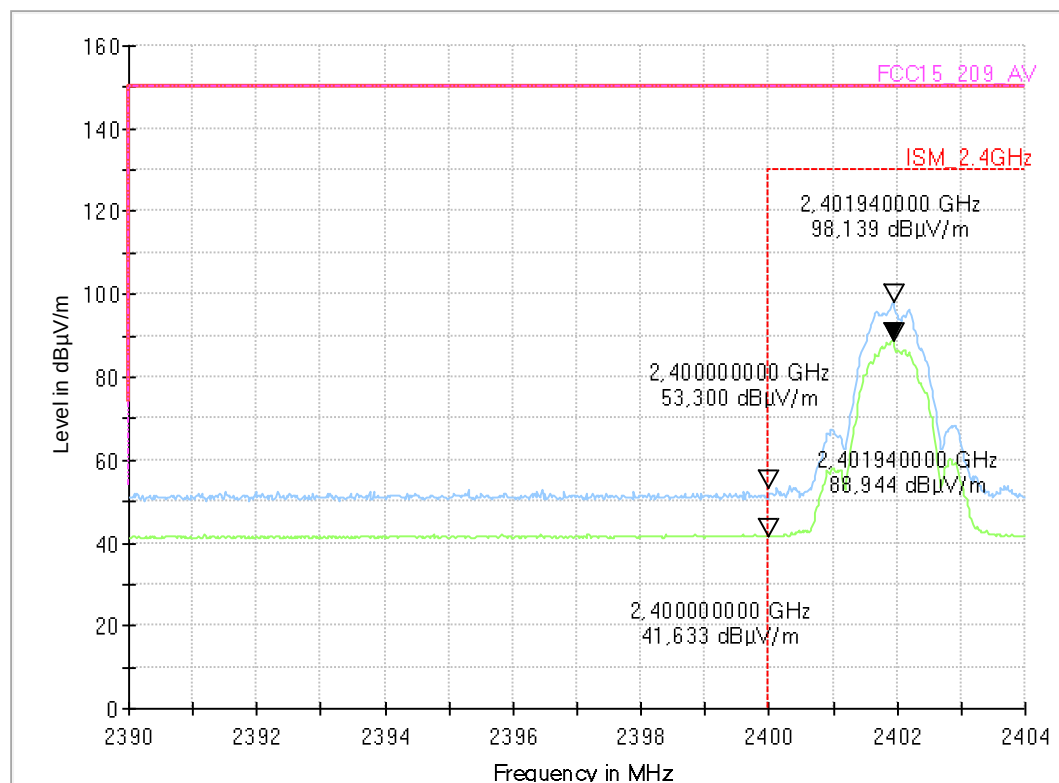
9.01_BE_BT_LE_low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	RSE BLE TX CHlow
Operator:	NPe/KTe
Comment:	Channel no. low
Comment2:	BLE Ch 0 pwr 4dBm
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00321S18_C01
	Full Spectrum



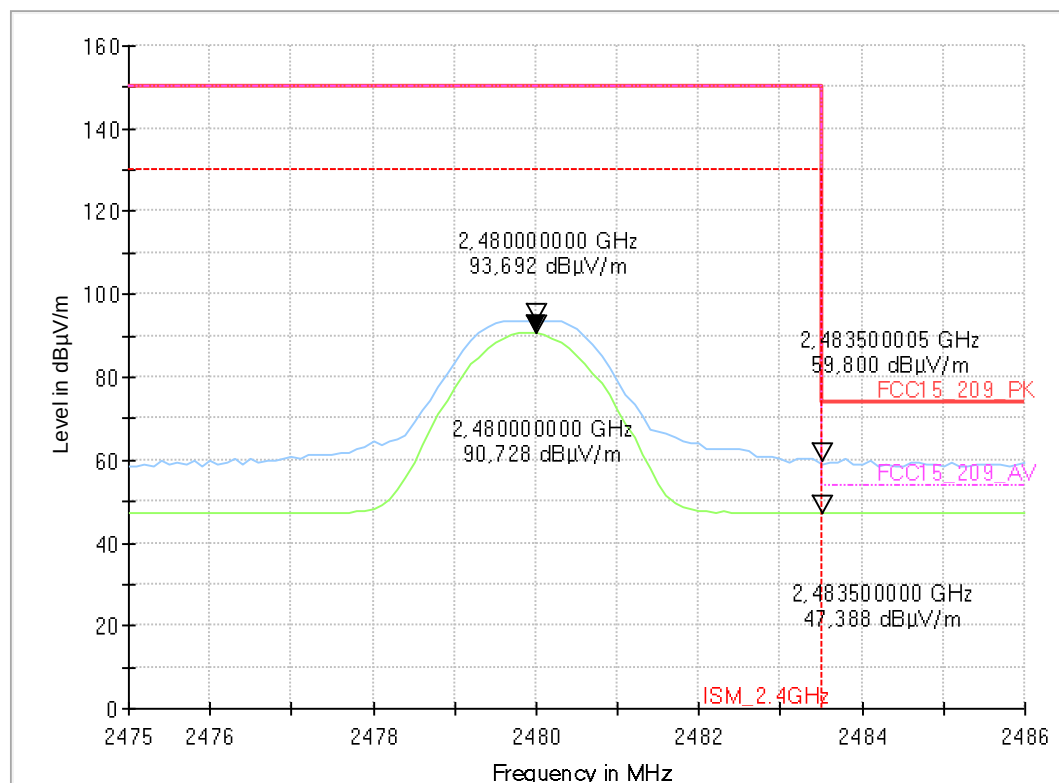
9.02_BE_BT_LE_high

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	RSE BLE TX CHhigh
Operator:	SOz / KTe
Comment:	Channel no. high
Comment2:	BLE Ch 39 pwr 4dBm
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00321S18_C01
	Full Spectrum



End Of Annex 1