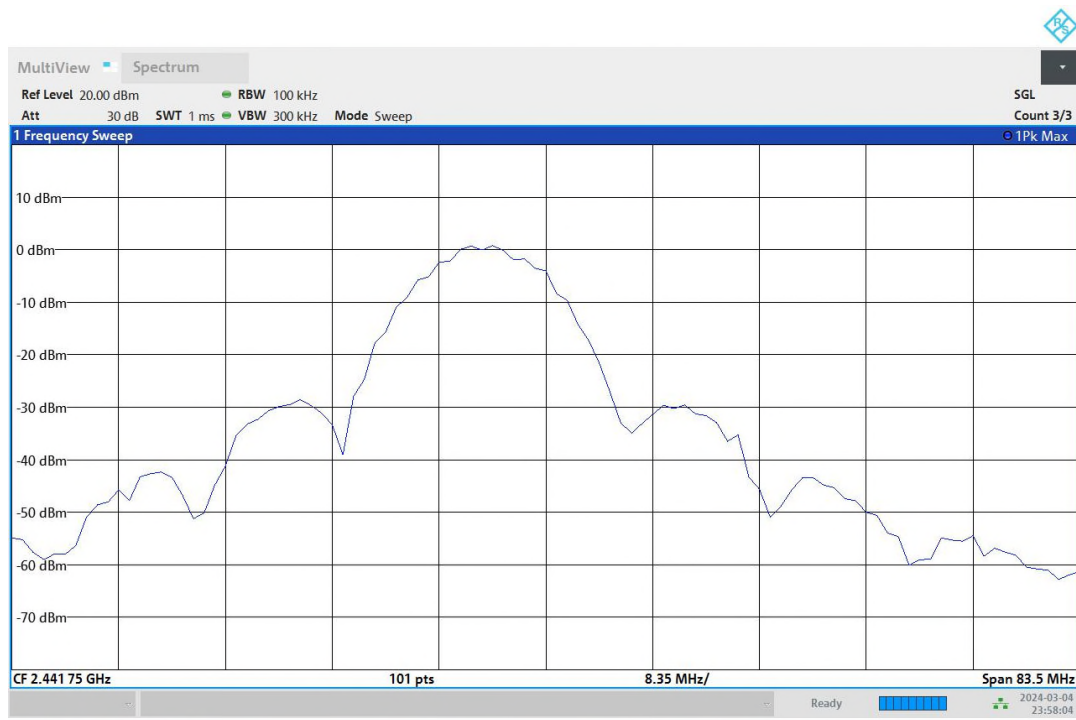
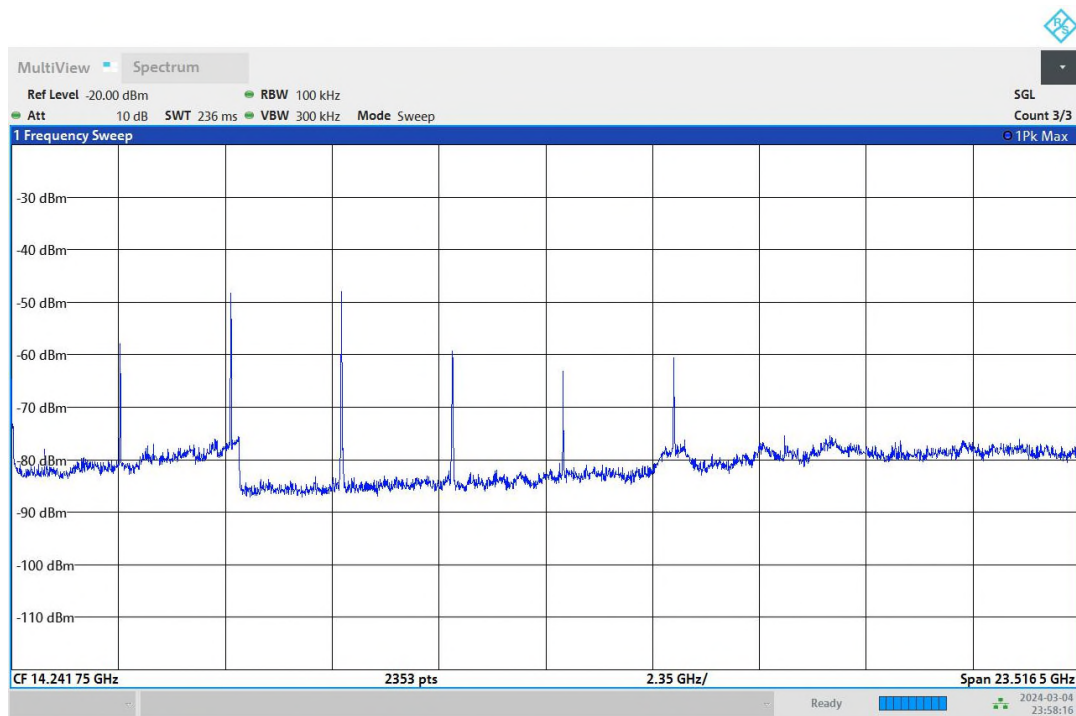




11:58:05 PM 03/04/2024

Spurious Connector 1_2



11:58:17 PM 03/04/2024

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Tx Spurious Emission (2462 MHz; b-mode [2MBps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2461.790000	8.1

Final measurements

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

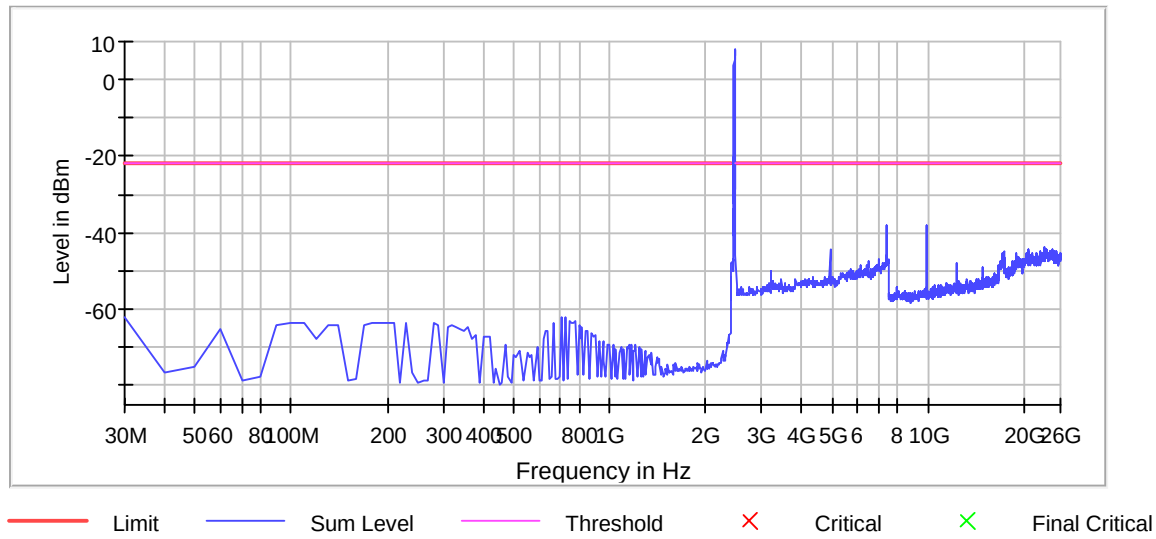
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
9842.404762	-37.9	16.0	-21.9
7382.770833	-38.1	16.2	-21.9
23180.419643	-44.0	22.1	-21.9
4923.136905	-44.1	22.3	-21.9
23430.382440	-44.2	22.3	-21.9
23520.369048	-44.2	22.4	-21.9
20510.816964	-44.5	22.6	-21.9
24460.229167	-44.5	22.6	-21.9
23490.373512	-44.5	22.7	-21.9
23450.379464	-44.6	22.7	-21.9
23020.443452	-44.6	22.8	-21.9
24600.208333	-44.6	22.8	-21.9
24620.205357	-44.7	22.8	-21.9
24150.275298	-44.7	22.8	-21.9
23440.380952	-44.8	22.9	-21.9

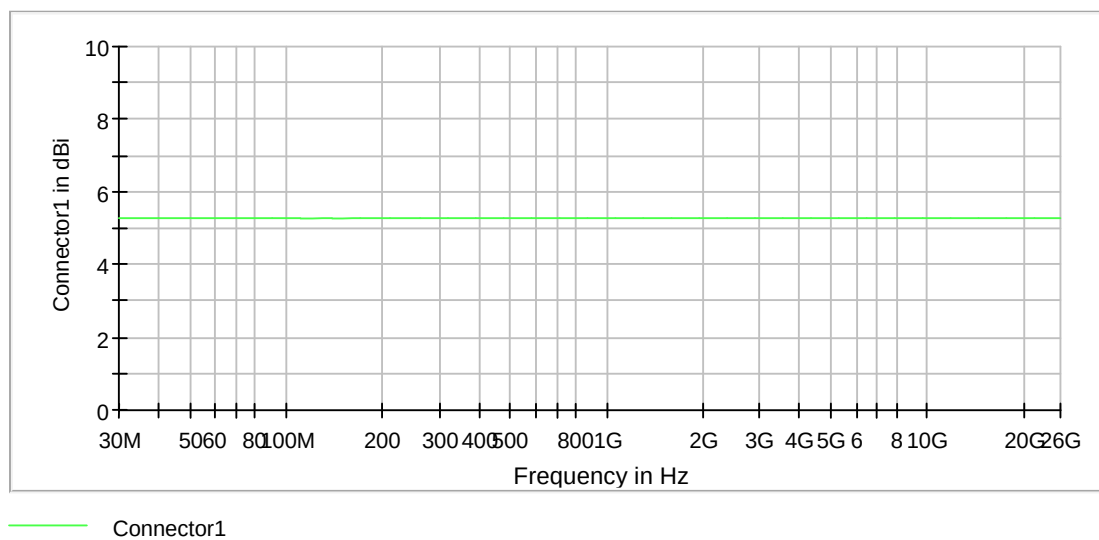
Measurement Settings

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

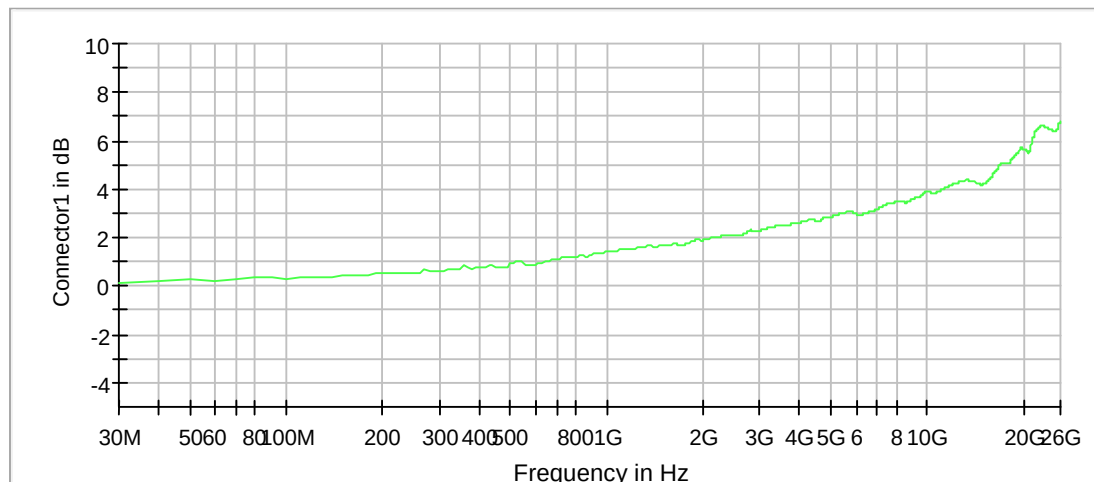
Spurious



Gain

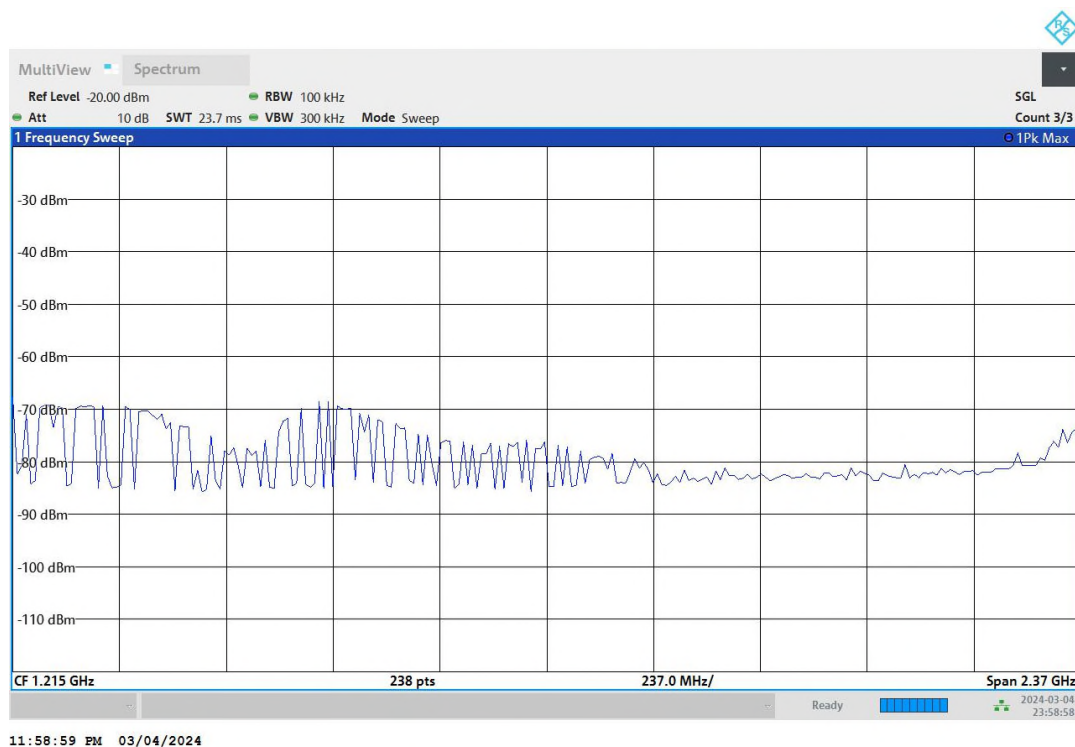


Attenuation

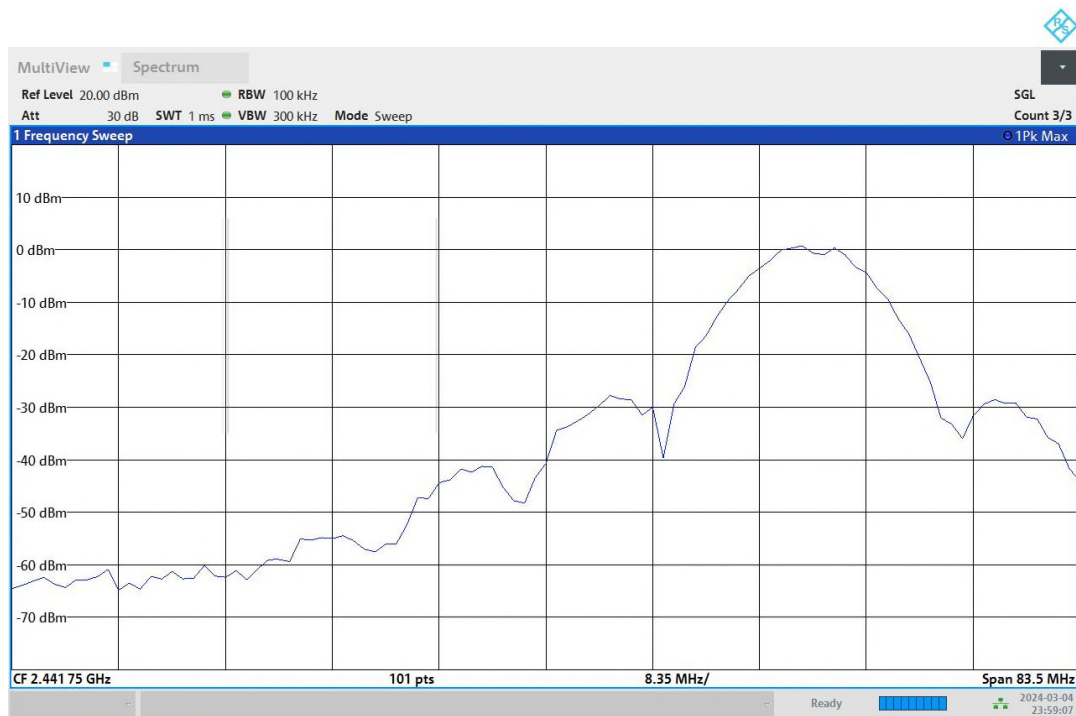


Connector1

Spurious Connector 1_0

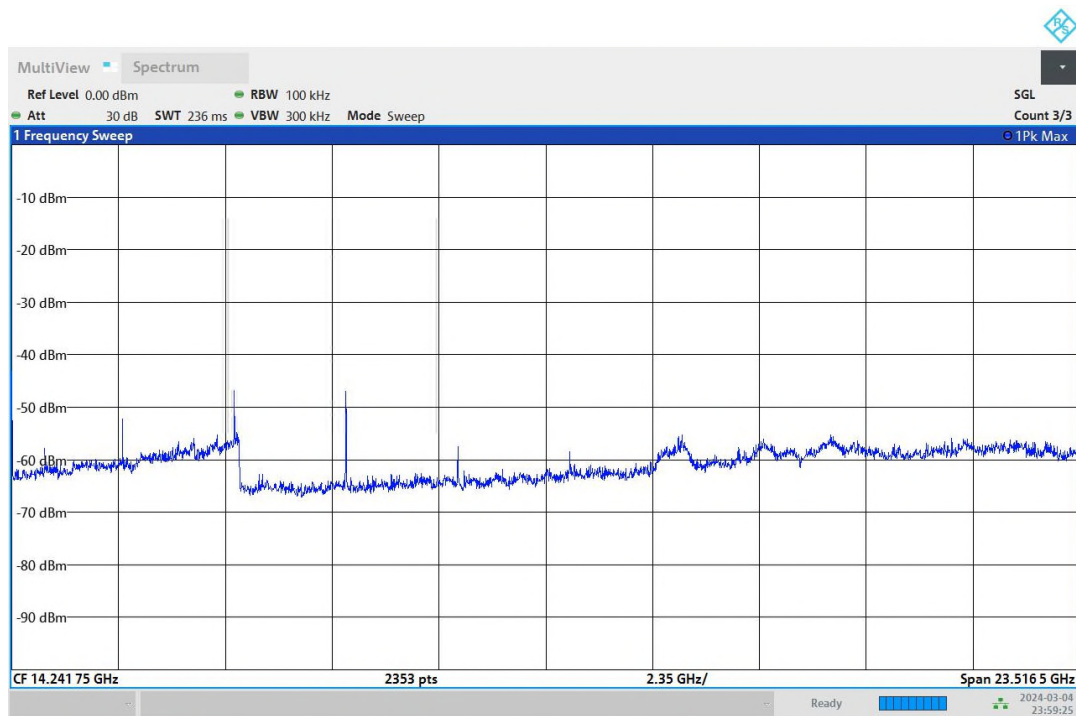


Spurious Connector 1_1



11:59:08 PM 03/04/2024

Spurious Connector 1_2



11:59:26 PM 03/04/2024

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	32 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.50 dB

Tx Spurious Emission (2412 MHz; g-mode [12Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2416.700000	6.6

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.850000	-13.6	-23.5	-23.4	0.1	PASS

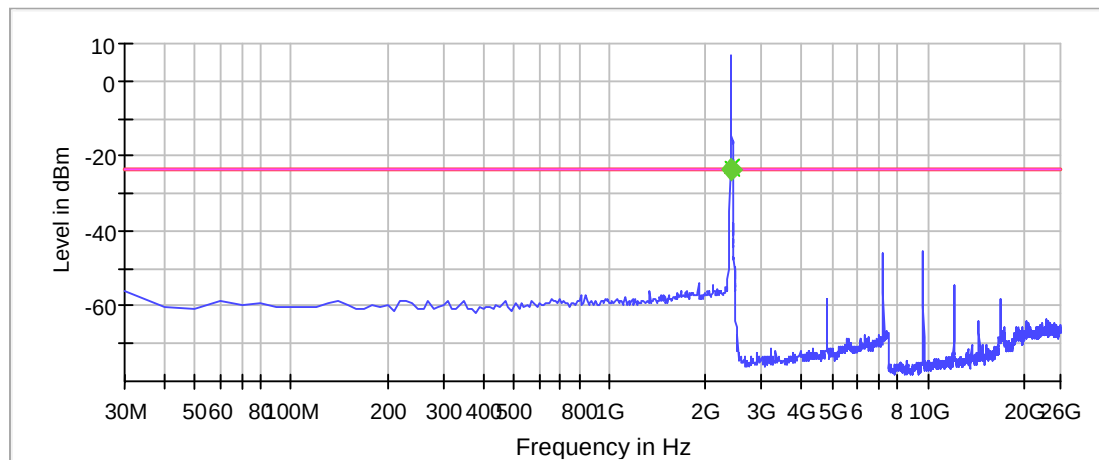
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2390.000000	-23.0	-0.4	-23.4
2380.000000	-34.9	11.5	-23.4
2370.000000	-43.3	19.9	-23.4
9642.434524	-45.4	22.0	-23.4
7222.794643	-45.8	22.4	-23.4
7232.793155	-47.0	23.6	-23.4
7242.791667	-48.4	25.0	-23.4
2360.000000	-50.0	26.6	-23.4
9652.433036	-52.8	29.4	-23.4
2350.000000	-52.9	29.5	-23.4
1900.000000	-54.0	30.6	-23.4
12052.075893	-54.2	30.8	-23.4
2110.000000	-54.7	31.3	-23.4
12062.074405	-54.9	31.5	-23.4
2330.000000	-55.1	31.7	-23.4

Measurement Settings

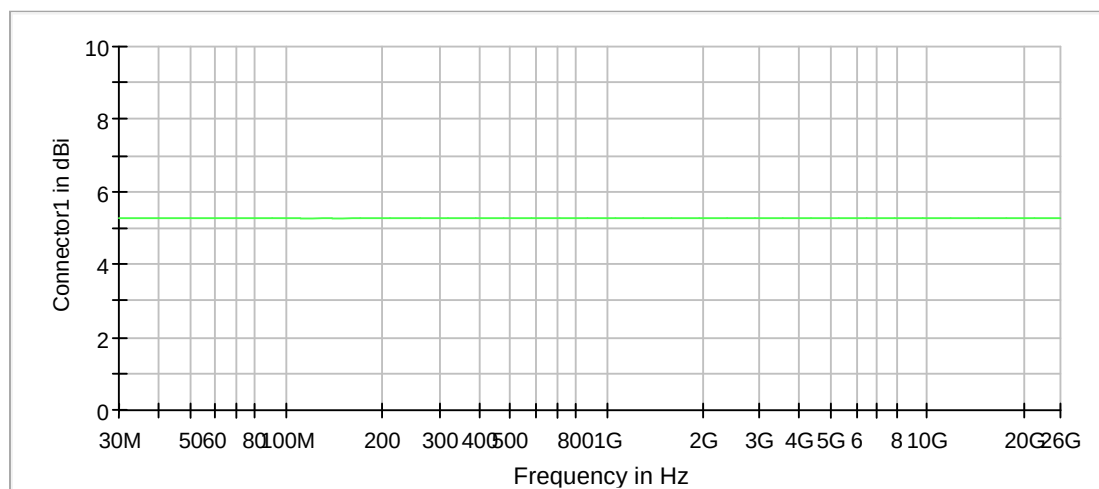
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious

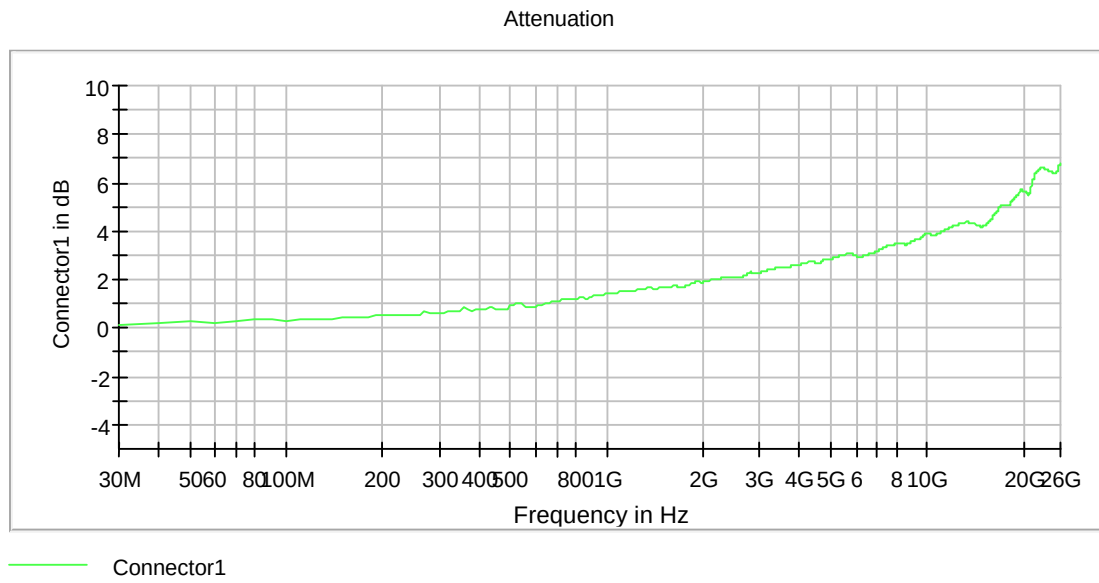


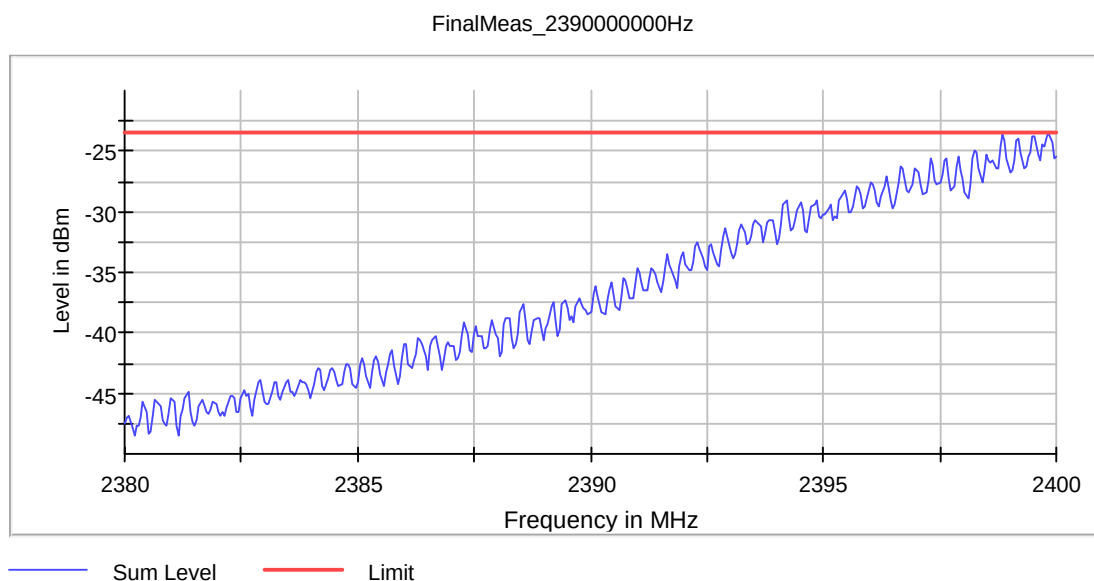
— Limit
× Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
× Critical

Gain

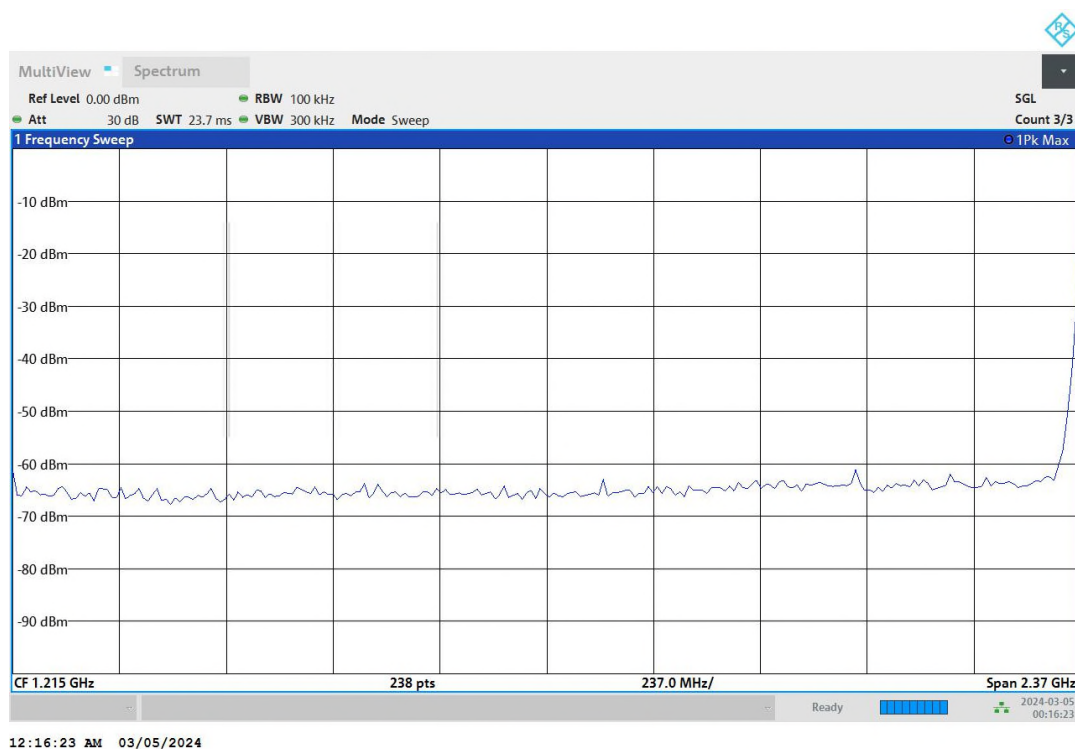


— Connector1

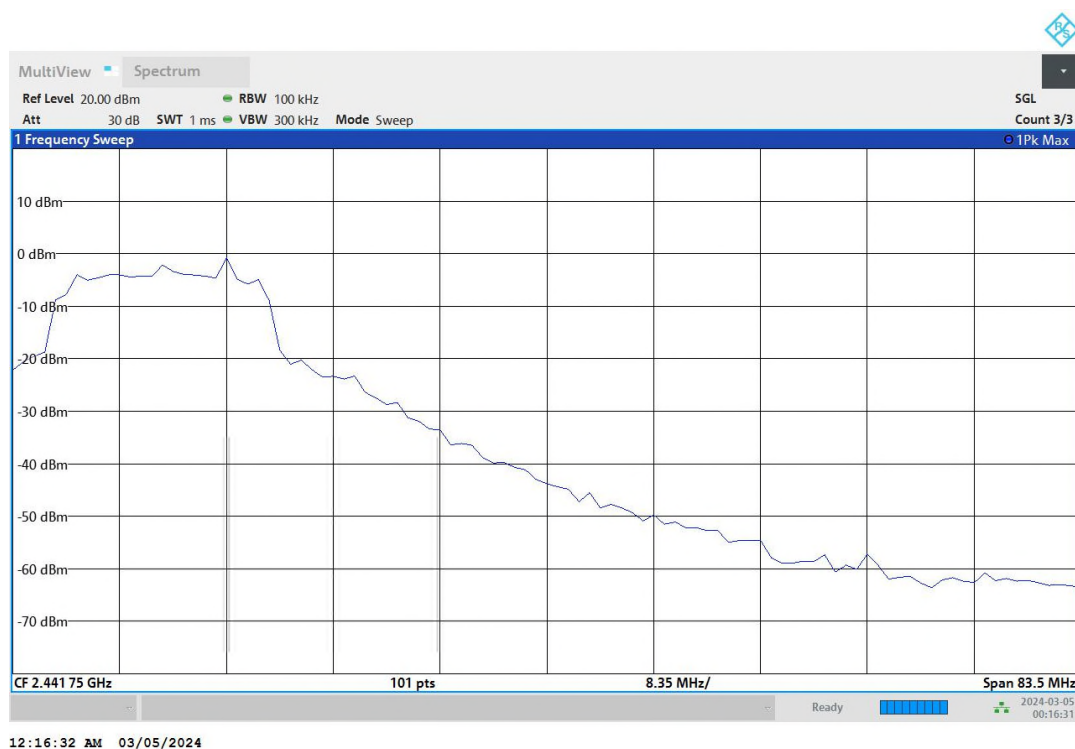




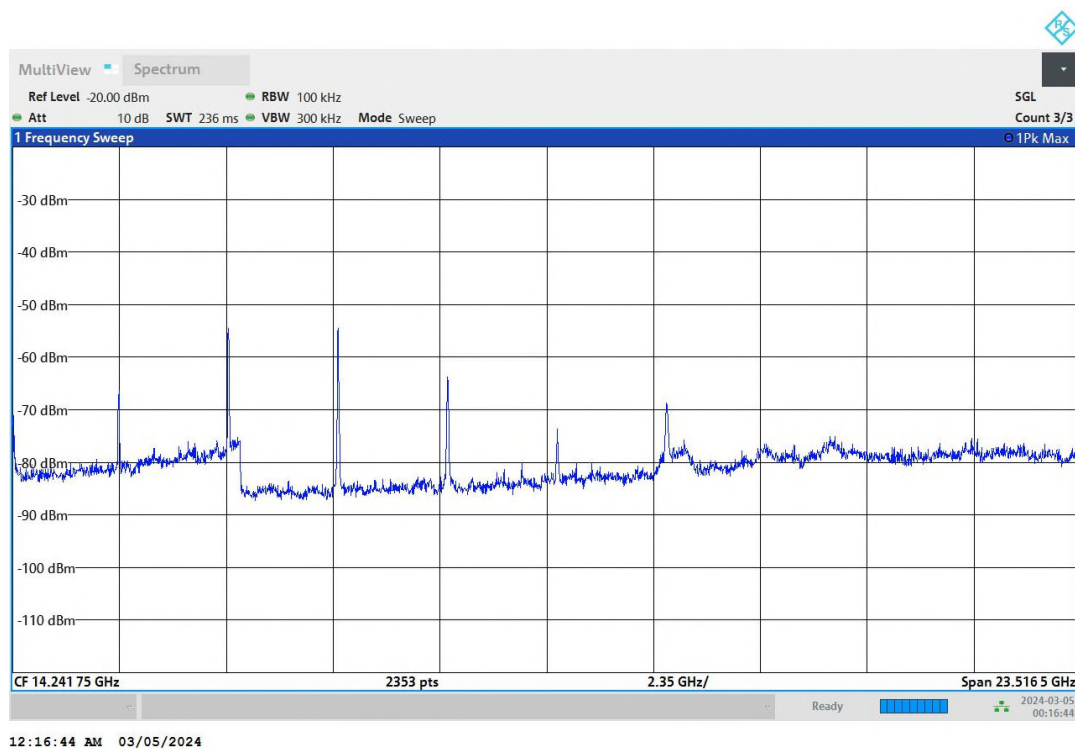
Spurious Connector 1_0



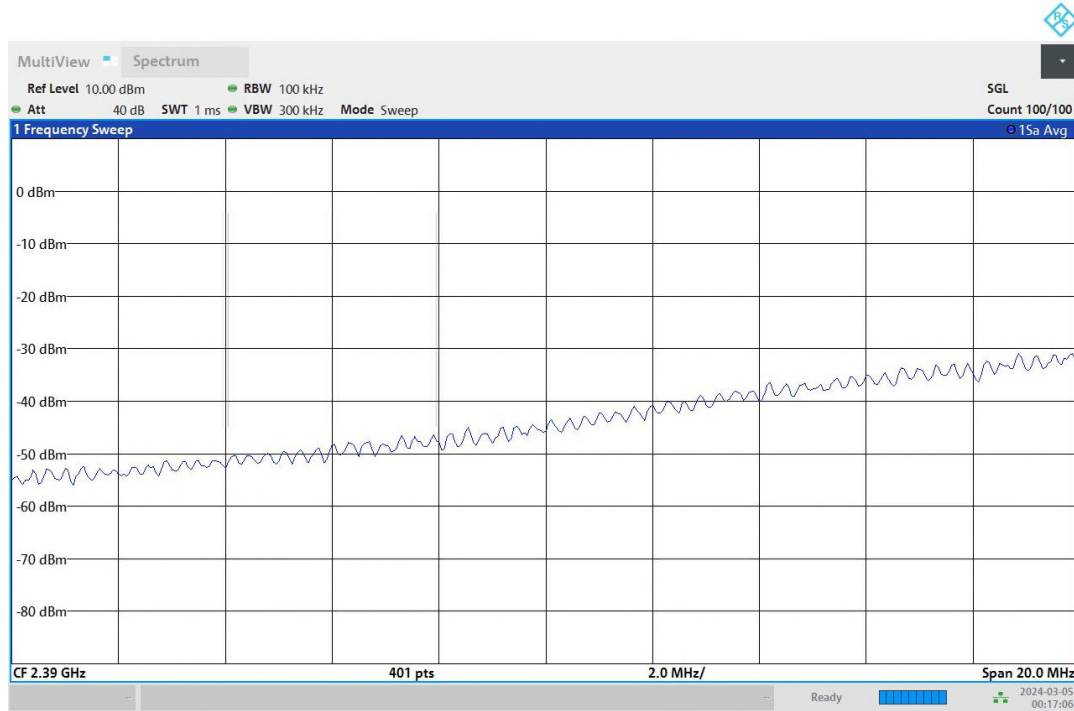
Spurious Connector 1_1



Spurious Connector 1_2



FinalMeas_2390000000Hz Connector 1_0



12:17:06 AM 03/05/2024

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	0.000 dBm	-30.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.42 dB	0.50 dB

Final Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	401	~ 401
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	-30.000 dBm
Attenuation	40.000 dB	AUTO
Detector	Sample	Sample
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Linear	Average Linear
SweepType	Sweep	AUTO
Preamplifier	off	off

Tx Spurious Emission (2437 MHz; g-mode [12Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2430.895000	6.5

Final measurements

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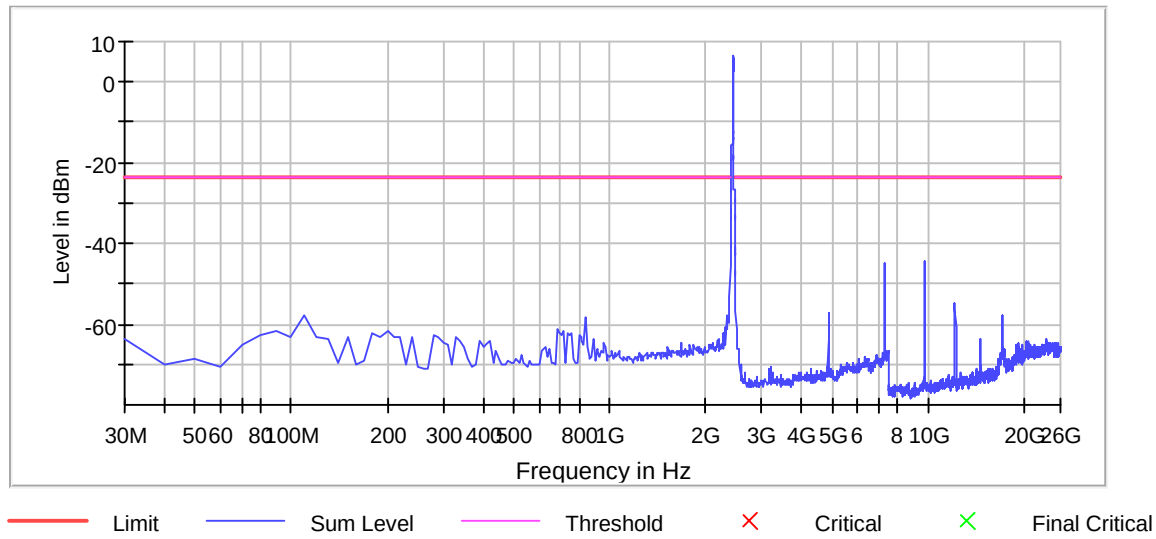
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
9742.419643	-44.6	21.1	-23.5
7312.781250	-45.0	21.5	-23.5
2390.000000	-45.5	22.0	-23.5
7302.782738	-45.8	22.4	-23.5
7322.779762	-48.7	25.2	-23.5
7292.784226	-49.6	26.1	-23.5
2380.000000	-53.3	29.8	-23.5
9762.416667	-53.8	30.3	-23.5
9752.418155	-53.9	30.4	-23.5
12182.056548	-54.9	31.4	-23.5
12192.055060	-56.1	32.6	-23.5
2370.000000	-56.5	33.0	-23.5
2493.498512	-56.8	33.3	-23.5
9732.421131	-56.9	33.5	-23.5
4873.144345	-57.4	33.9	-23.5

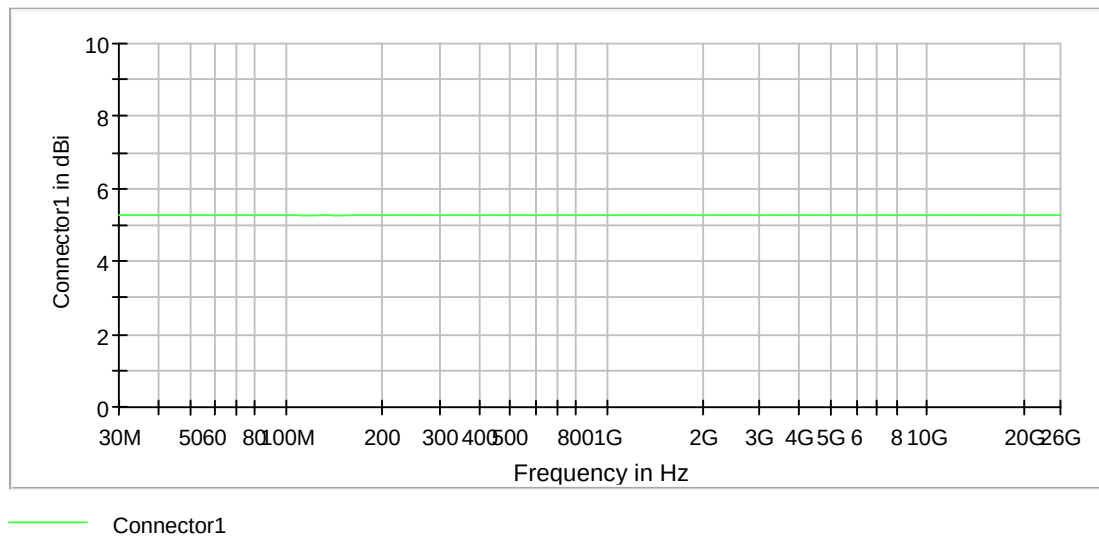
Measurement Settings

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

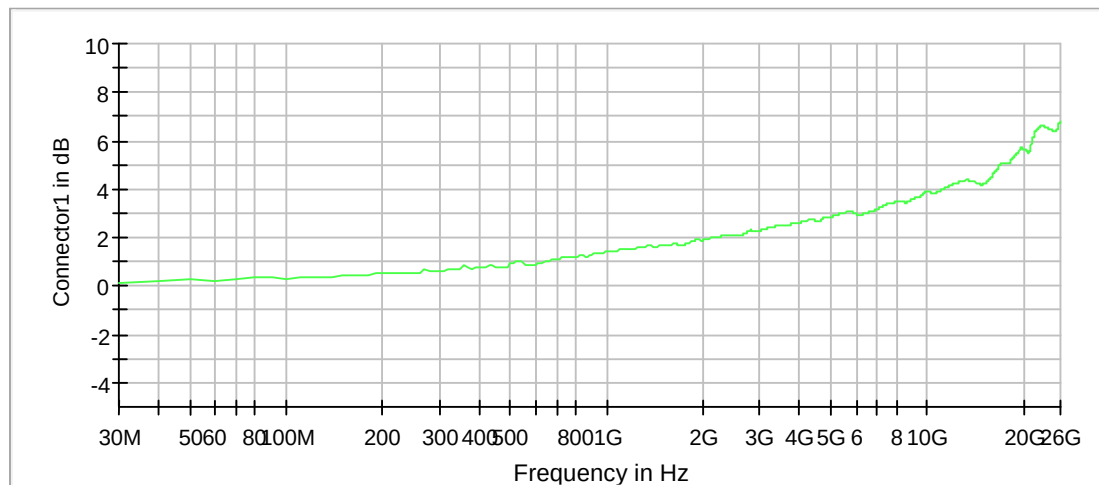
Spurious



Gain

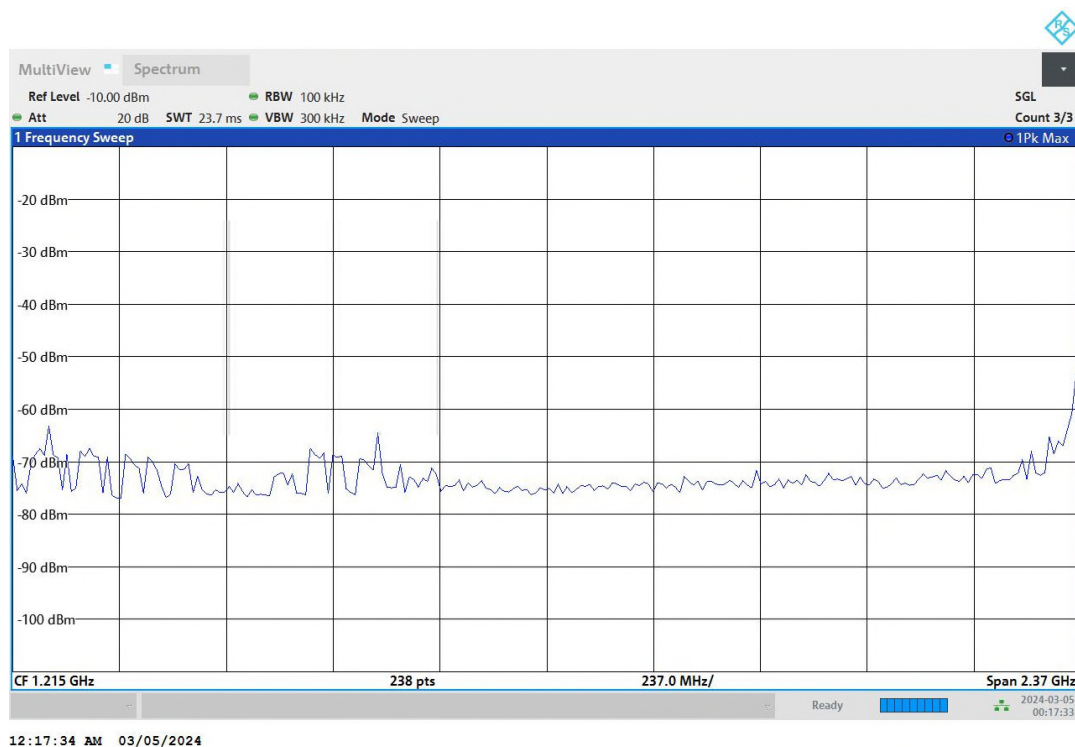


Attenuation

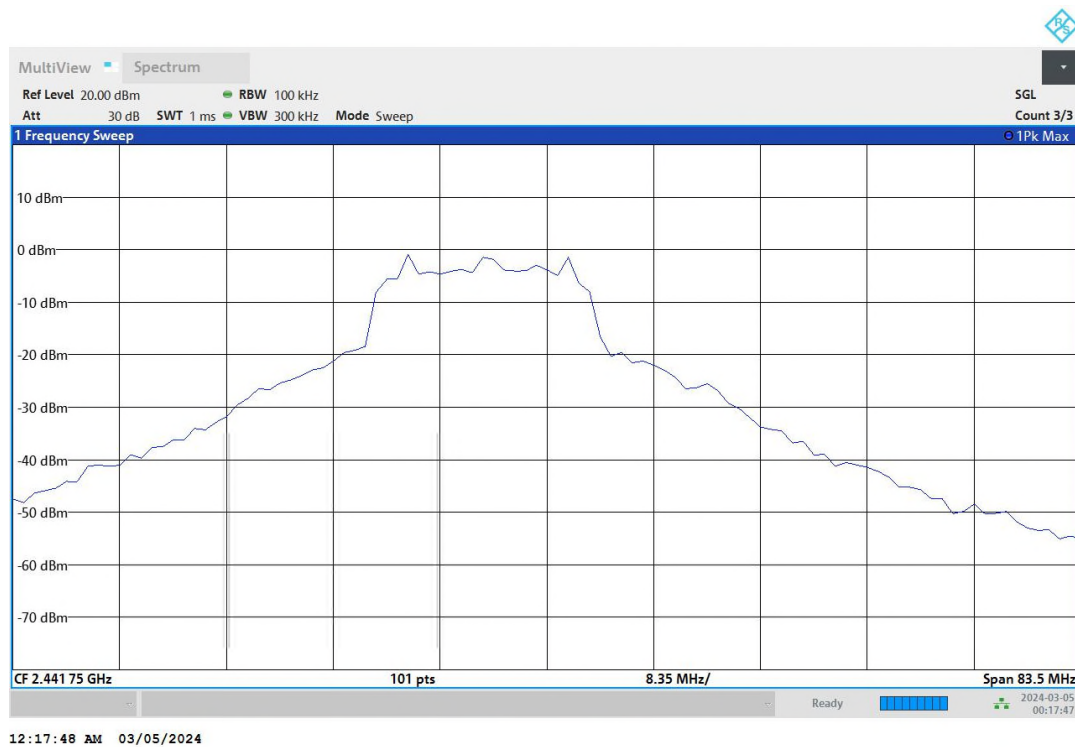


Connector1

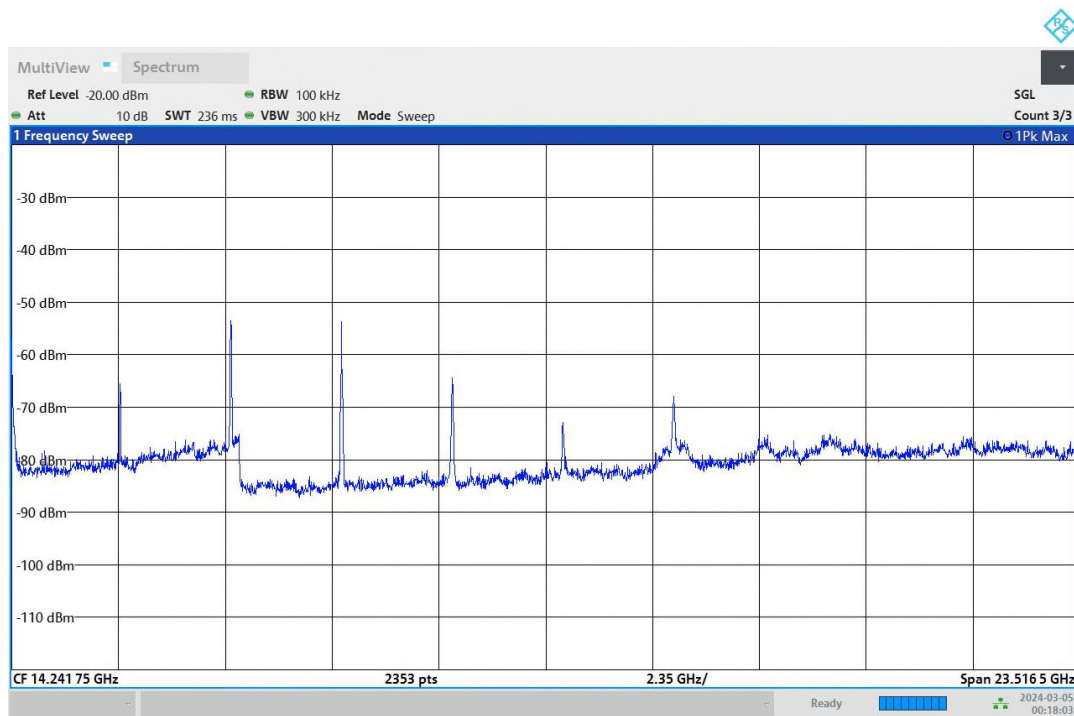
Spurious Connector 1_0



Spurious Connector 1_1



Spurious Connector 1_2



12:18:04 AM 03/05/2024

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Tx Spurious Emission (2462 MHz; g-mode [12Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2461.790000	5.3

Final measurements

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

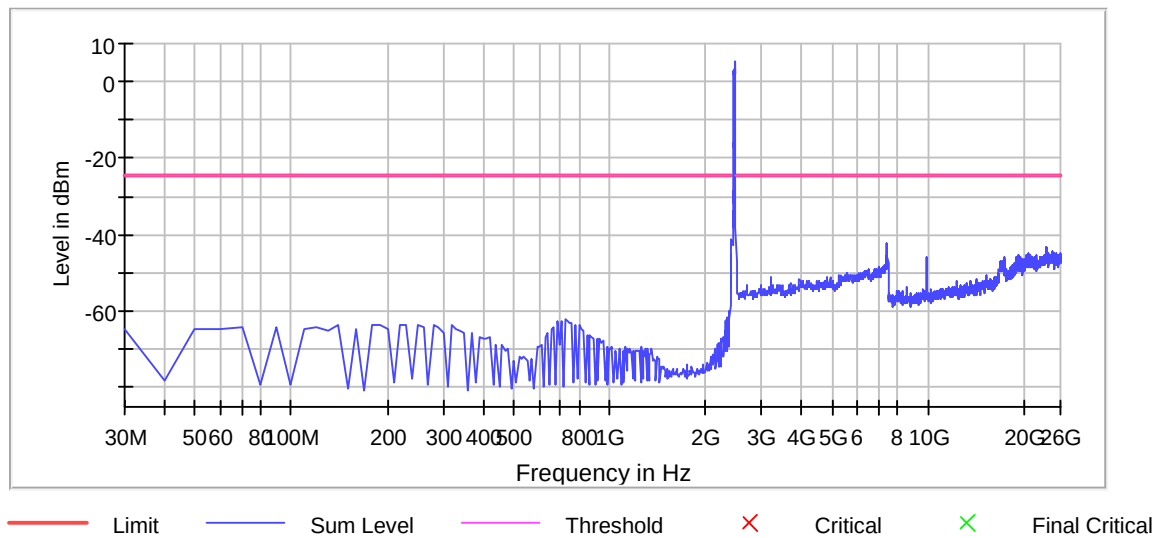
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.498512	-38.1	13.4	-24.7
7382.770833	-42.0	17.3	-24.7
7392.769345	-43.2	18.5	-24.7
23530.367560	-43.2	18.5	-24.7
23430.382440	-43.4	18.7	-24.7
7372.772321	-44.0	19.3	-24.7
23570.361607	-44.0	19.3	-24.7
23550.364583	-44.4	19.7	-24.7
23450.379464	-44.4	19.7	-24.7
24580.211310	-44.5	19.8	-24.7
24570.212798	-44.5	19.8	-24.7
24880.166667	-44.6	19.9	-24.7
23420.383929	-44.6	19.9	-24.7
24000.297619	-44.7	20.0	-24.7
20510.816964	-44.8	20.1	-24.7

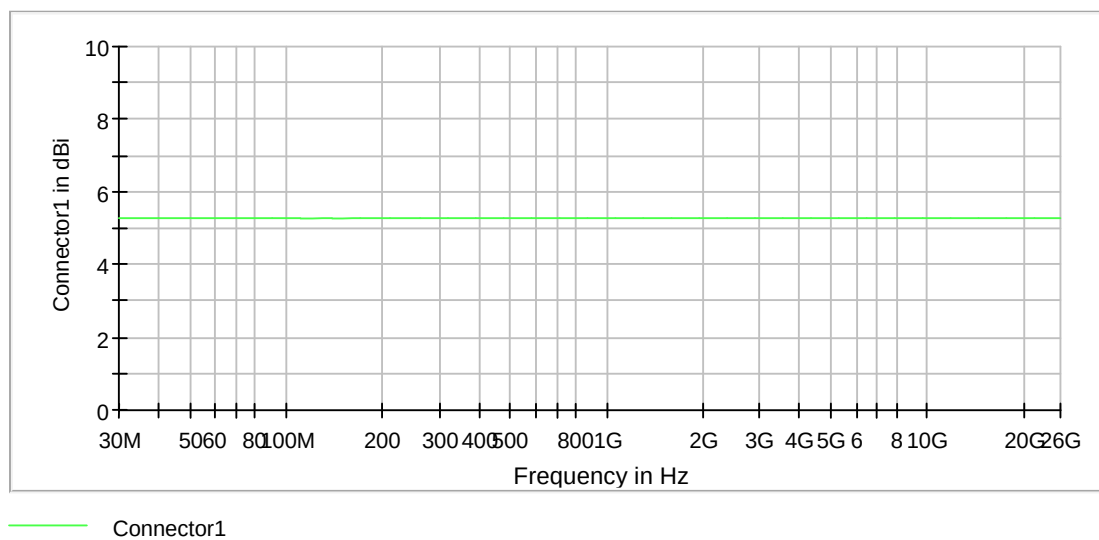
Measurement Settings

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

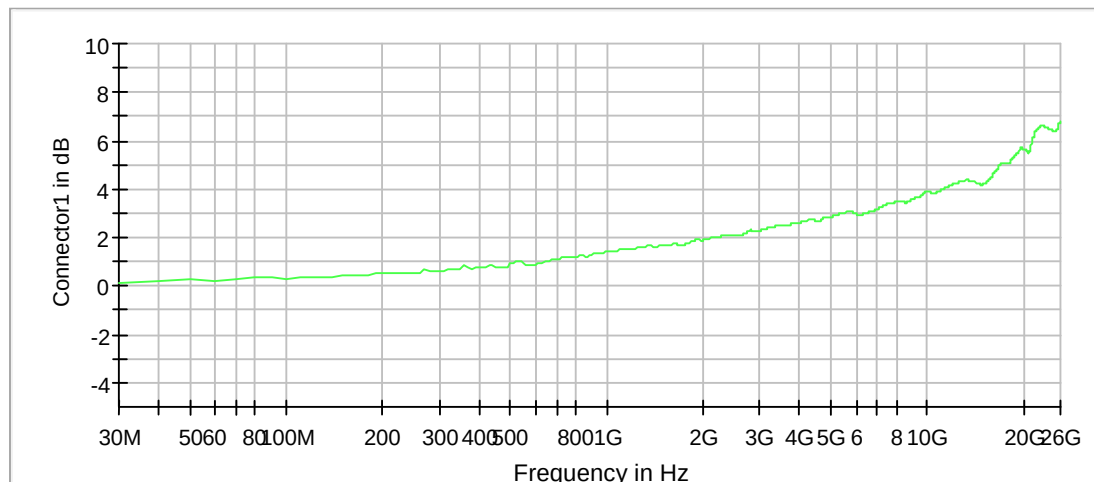
Spurious



Gain

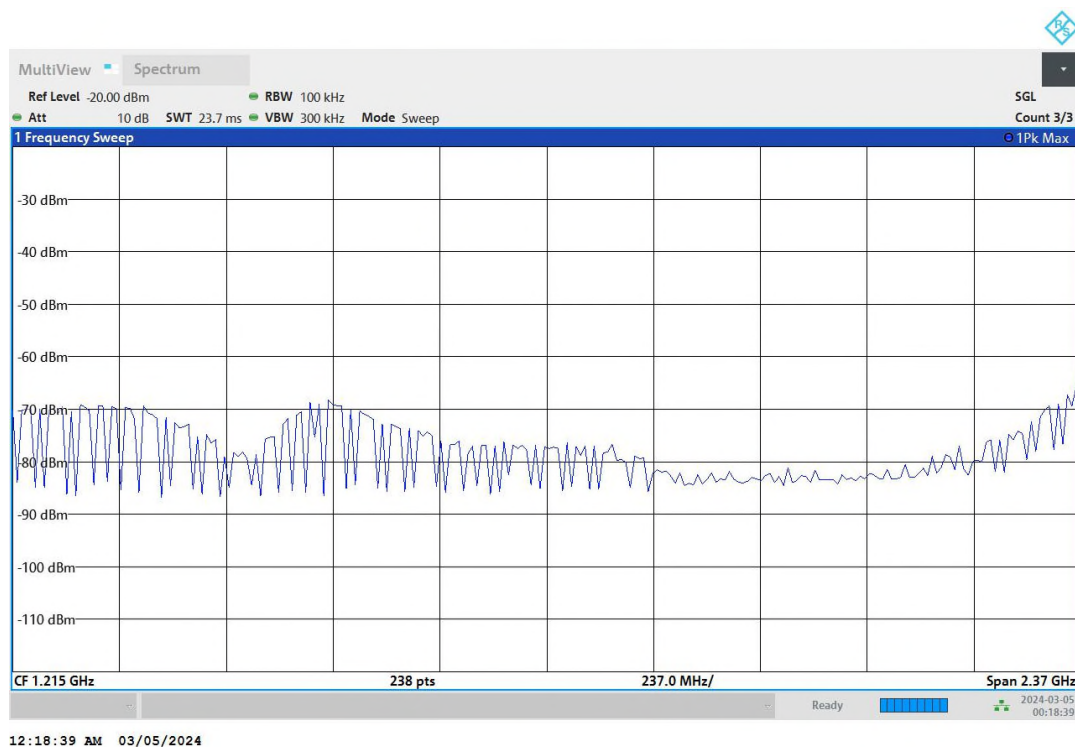


Attenuation

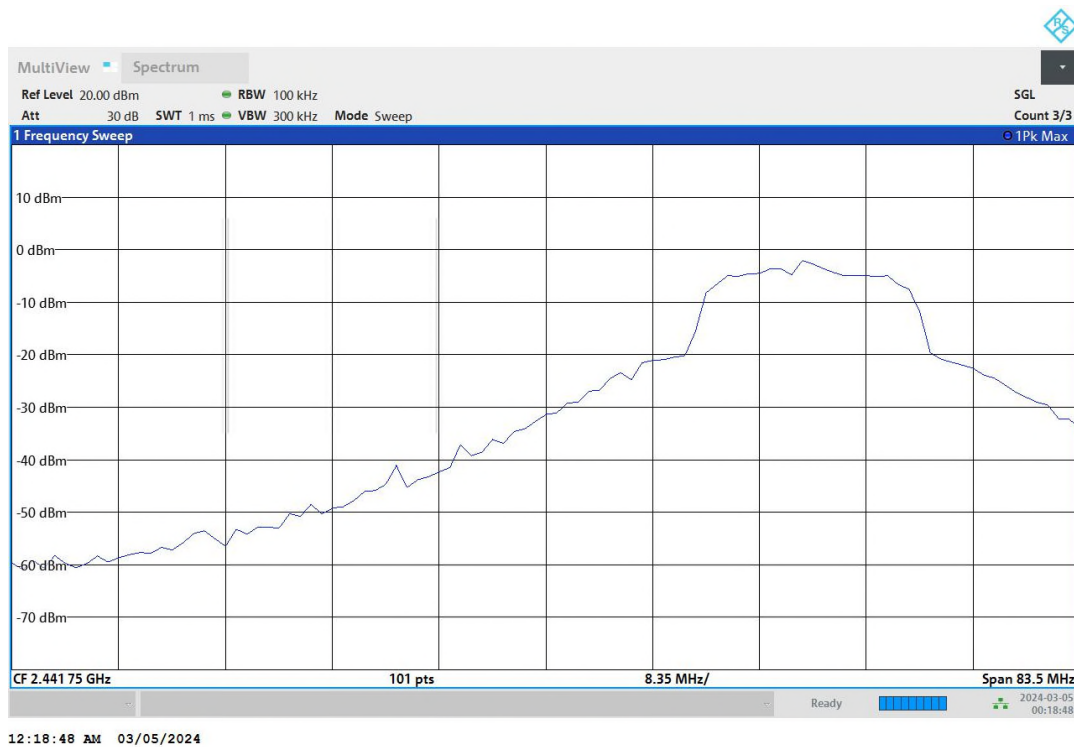


Connector1

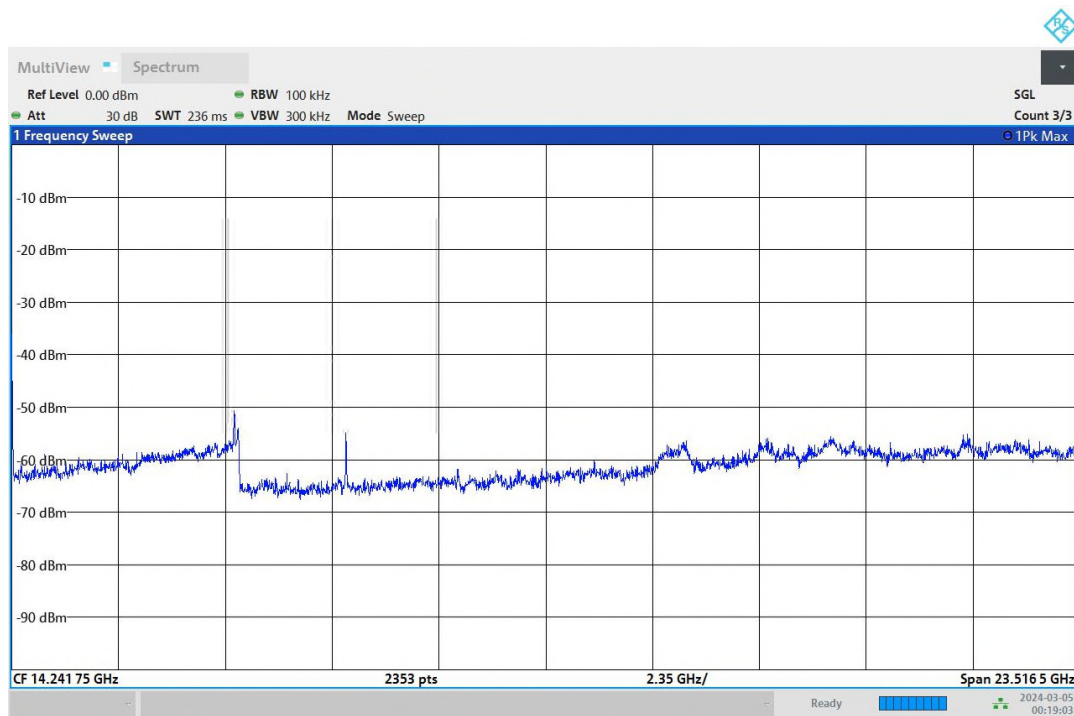
Spurious Connector 1_0



Spurious Connector 1_1



Spurious Connector 1_2



12:19:03 AM 03/05/2024

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Tx Spurious Emission (2412 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2410.855000	6.3

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.800000	-14.1	-23.8	-23.7	0.1	PASS

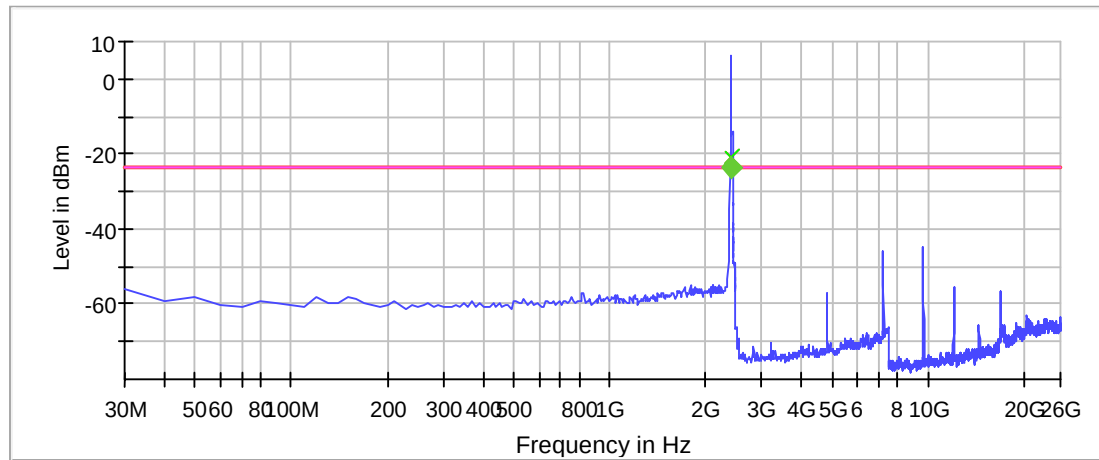
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2390.000000	-20.7	-3.0	-23.7
2380.000000	-34.9	11.2	-23.7
2370.000000	-42.0	18.4	-23.7
9642.434524	-44.9	21.3	-23.7
7232.793155	-45.9	22.3	-23.7
7242.791667	-48.1	24.4	-23.7
7222.794643	-48.4	24.7	-23.7
2360.000000	-48.7	25.0	-23.7
9652.433036	-52.8	29.1	-23.7
2350.000000	-53.6	30.0	-23.7
1800.000000	-54.7	31.1	-23.7
7252.790179	-54.9	31.3	-23.7
2220.000000	-55.0	31.3	-23.7
2120.000000	-55.1	31.4	-23.7
2100.000000	-55.1	31.5	-23.7

Measurement Settings

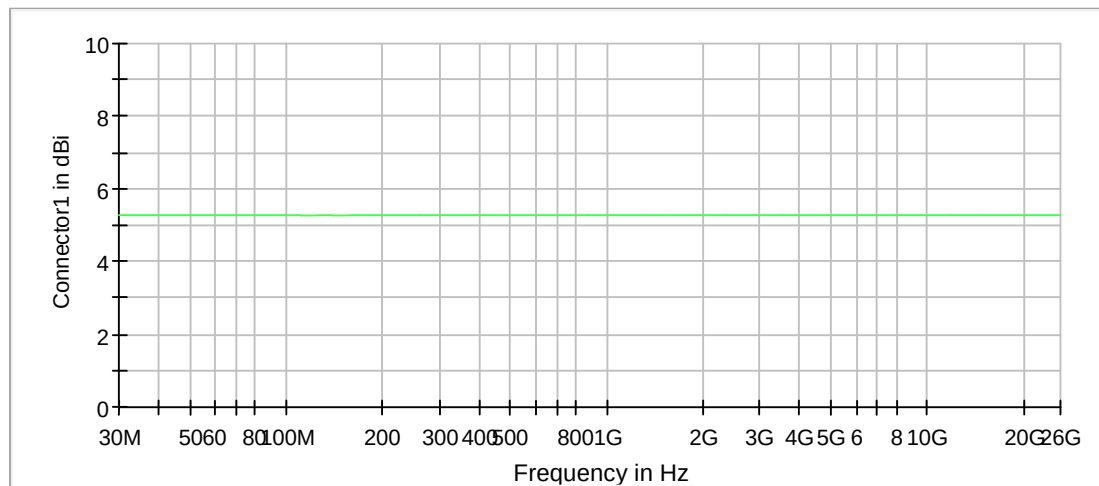
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious



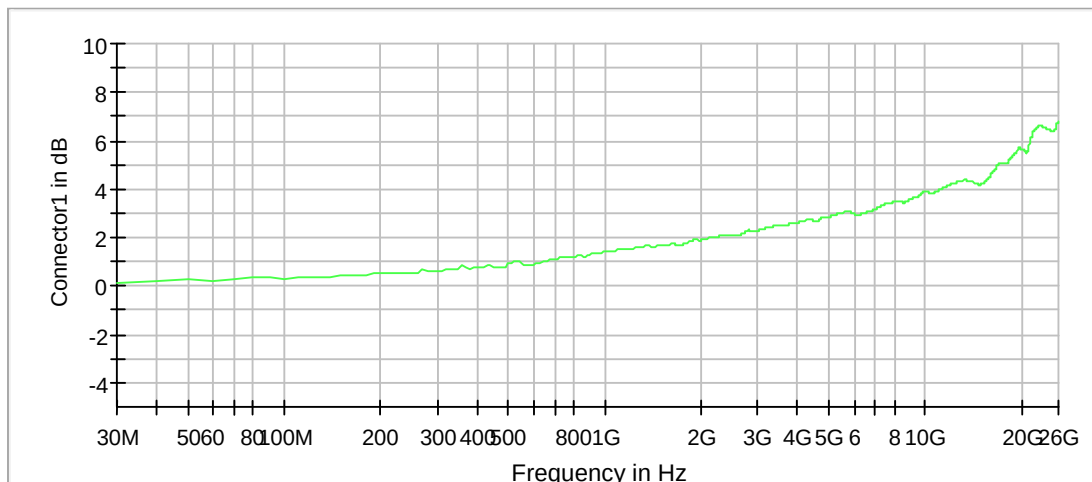
— Limit
x Final Critical
— Sum Level
◆ Sum Level Fail
— Threshold
◆ Threshold Pass
x Critical

Gain



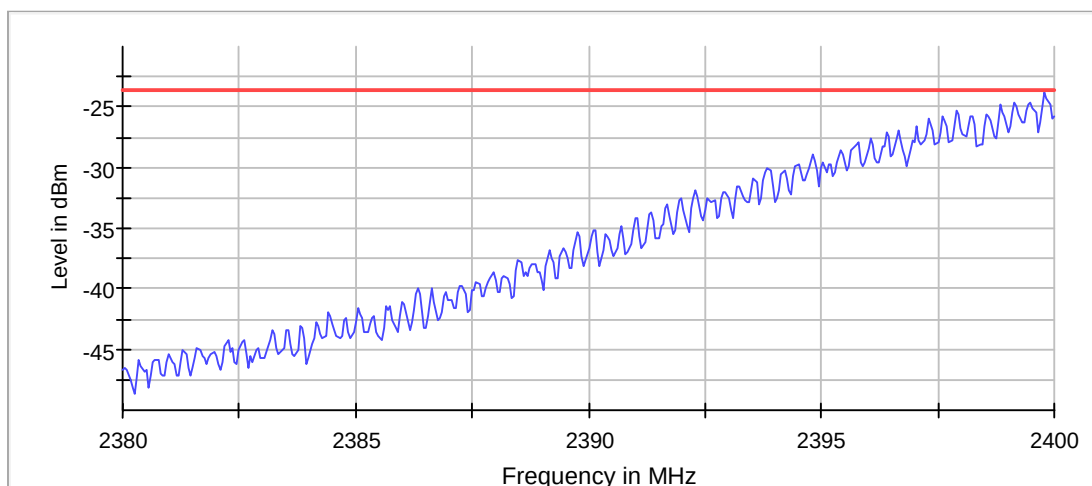
— Connector1

Attenuation



Connector1

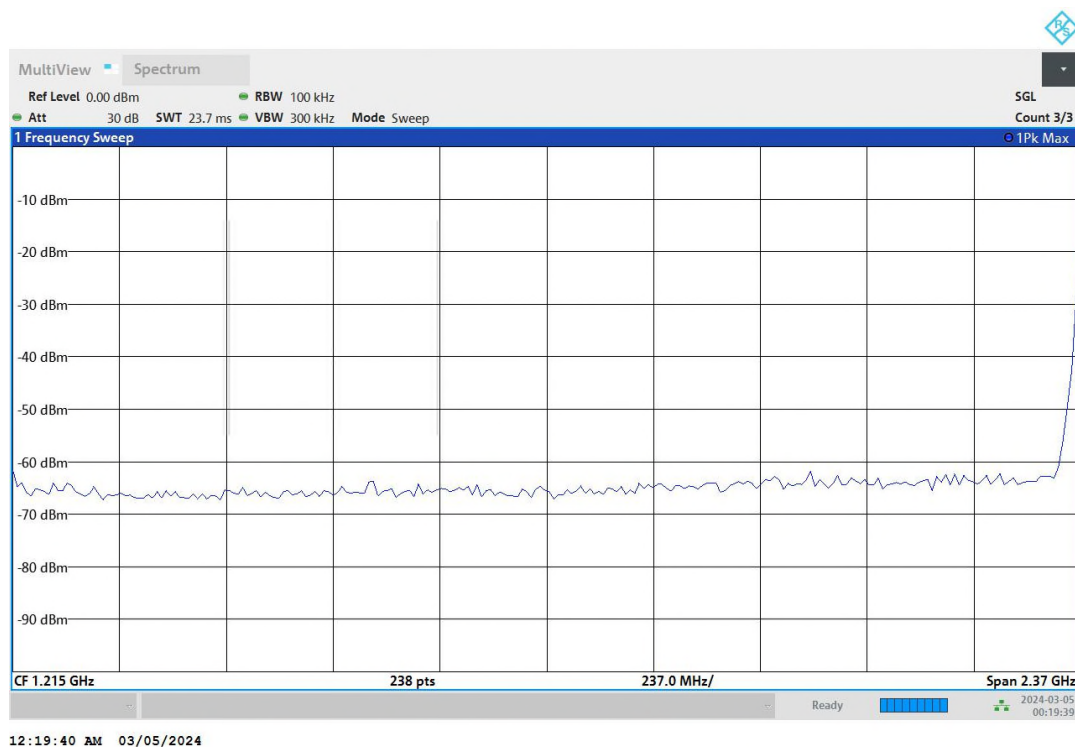
FinalMeas_2390000000Hz



Sum Level

Limit

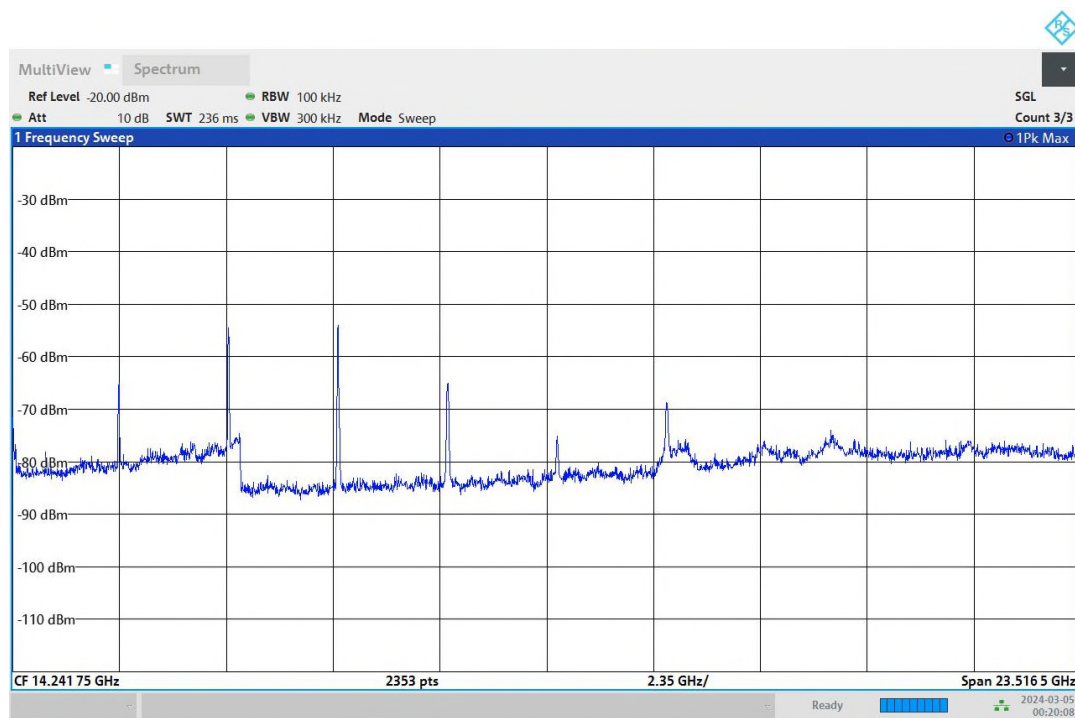
Spurious Connector 1_0



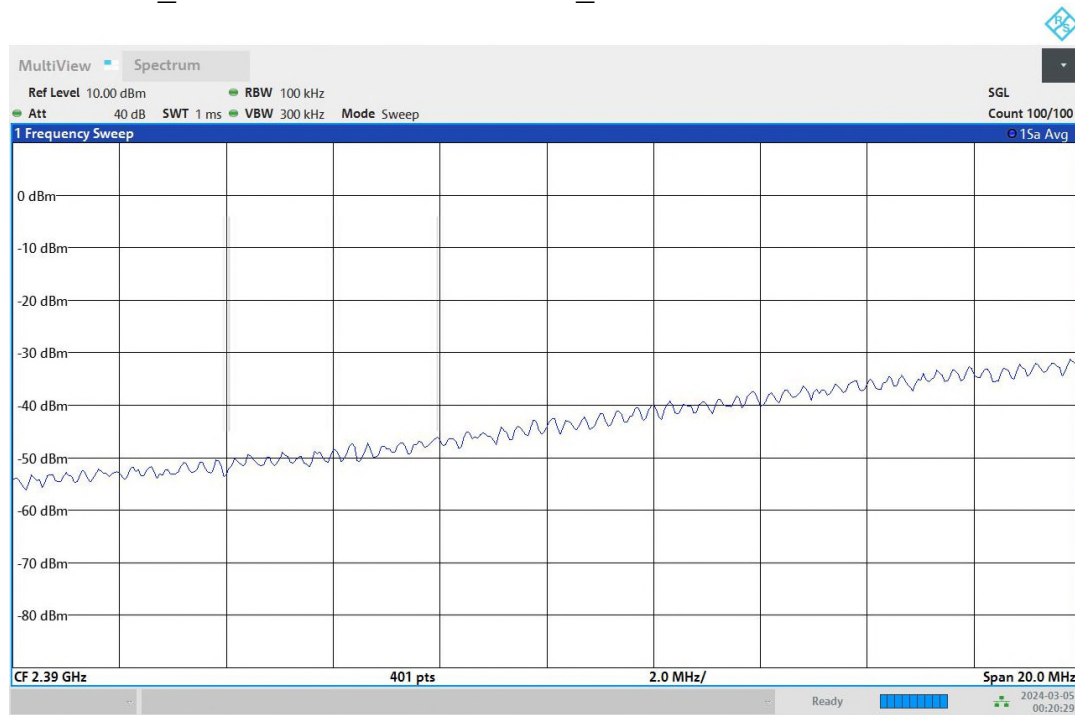
Spurious Connector 1_1



Spurious Connector 1_2



FinalMeas_2390000000Hz Connector 1_0



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	0.000 dBm	-30.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Final Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	401	~ 401
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	-30.000 dBm
Attenuation	40.000 dB	AUTO
Detector	Sample	Sample
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Linear	Average Linear
SweepType	Sweep	AUTO
Preamp	off	off

Tx Spurious Emission (2437 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2431.730000	7.2

Final measurements

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

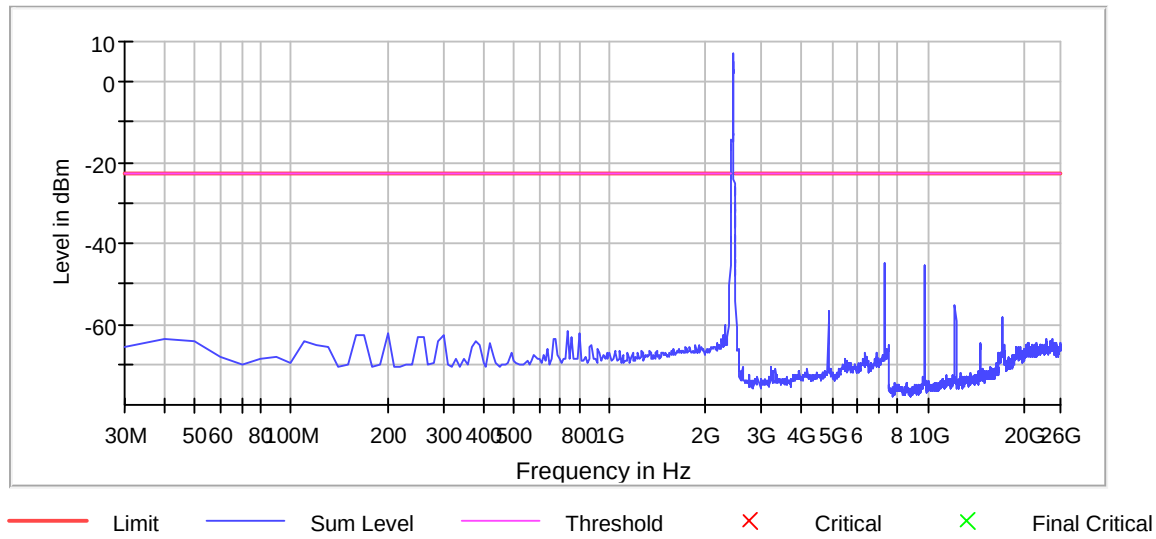
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
7302.782738	-44.8	22.0	-22.8
9742.419643	-45.4	22.6	-22.8
2390.000000	-45.4	22.6	-22.8
7312.781250	-45.9	23.1	-22.8
7292.784226	-49.5	26.7	-22.8
2380.000000	-50.3	27.5	-22.8
7322.779762	-50.4	27.7	-22.8
2493.498512	-54.3	31.5	-22.8
9732.421131	-54.8	32.0	-22.8
9752.418155	-55.0	32.2	-22.8
12192.055060	-55.5	32.7	-22.8
12182.056548	-55.8	33.0	-22.8
2370.000000	-56.5	33.8	-22.8
4863.145833	-56.6	33.8	-22.8
9762.416667	-56.8	34.0	-22.8

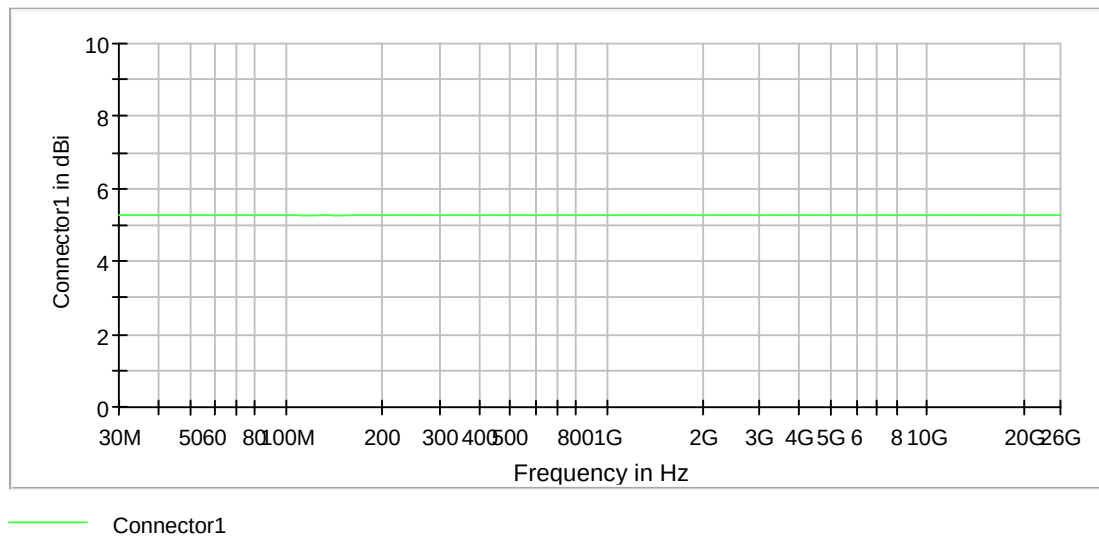
Measurement Settings

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

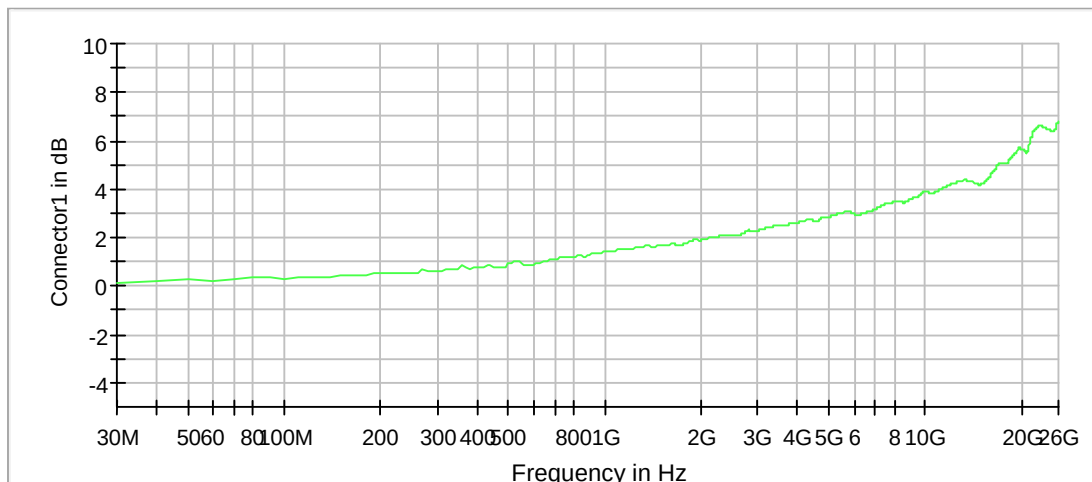
Spurious



Gain

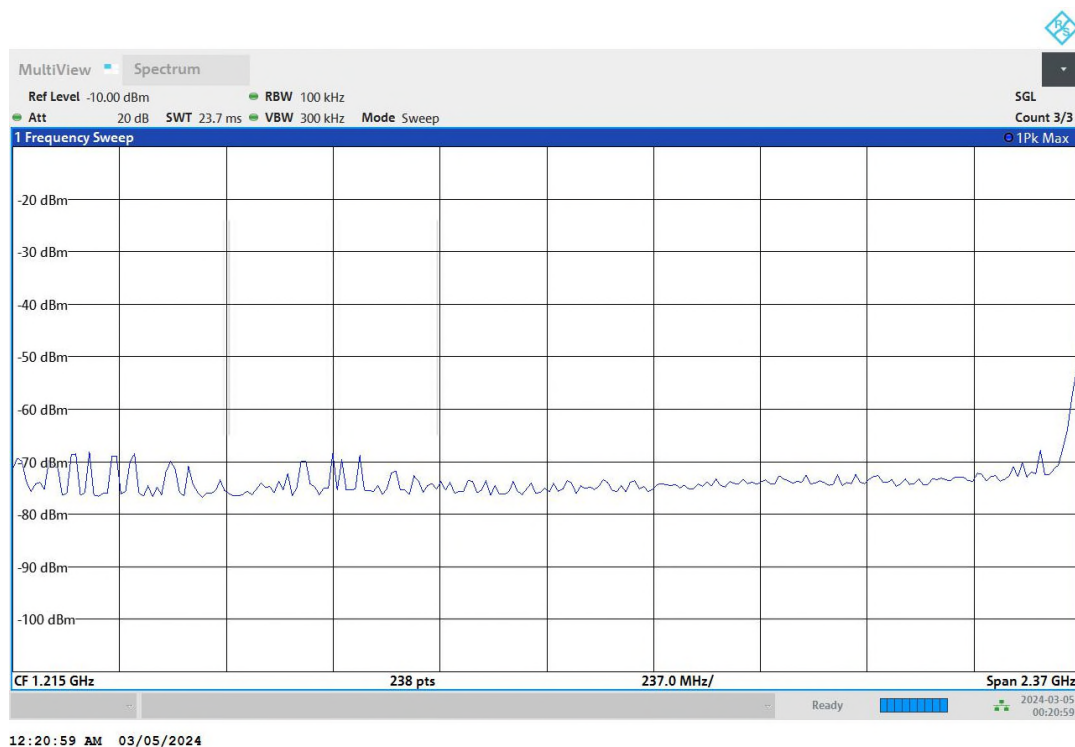


Attenuation

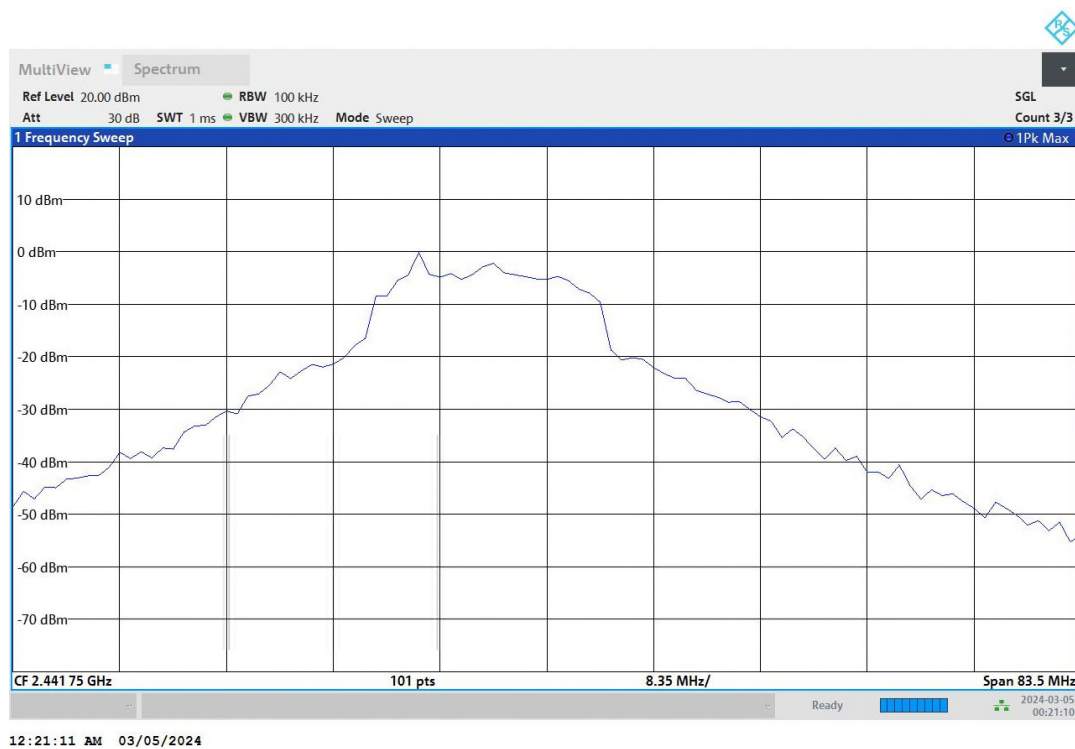


Connector1

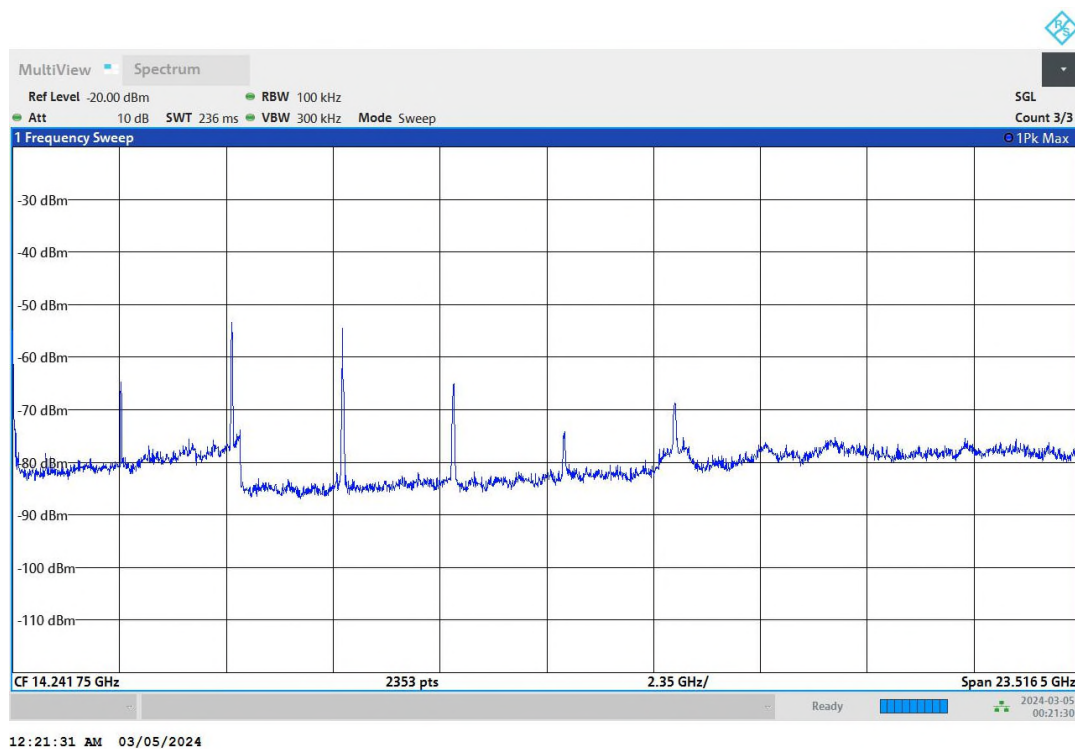
Spurious Connector 1_0



Spurious Connector 1_1



Spurious Connector 1_2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Tx Spurious Emission (2462 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2462.625000	4.7

Final measurements

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

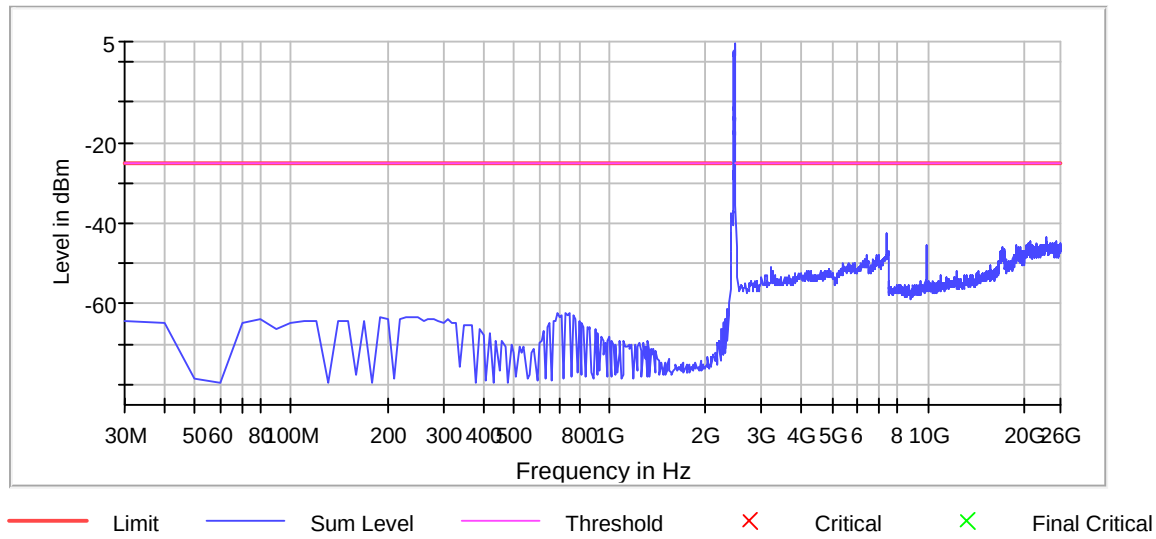
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.498512	-35.4	10.1	-25.3
7382.770833	-42.7	17.4	-25.3
23460.377976	-43.5	18.2	-25.3
23430.382440	-44.4	19.0	-25.3
23450.379464	-44.5	19.2	-25.3
23520.369048	-44.5	19.2	-25.3
21020.741071	-44.6	19.3	-25.3
25240.113095	-44.7	19.4	-25.3
23360.392857	-44.7	19.4	-25.3
24820.175595	-44.8	19.4	-25.3
7372.772321	-44.8	19.5	-25.3
23550.364583	-44.9	19.6	-25.3
22020.592262	-45.0	19.6	-25.3
25960.005952	-45.0	19.7	-25.3
23540.366071	-45.0	19.7	-25.3

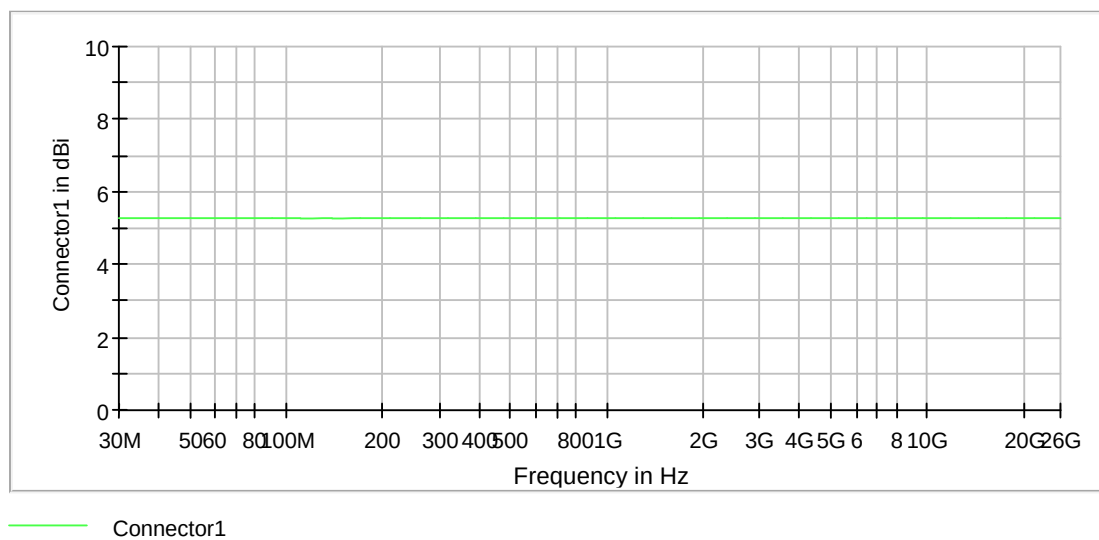
Measurement Settings

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

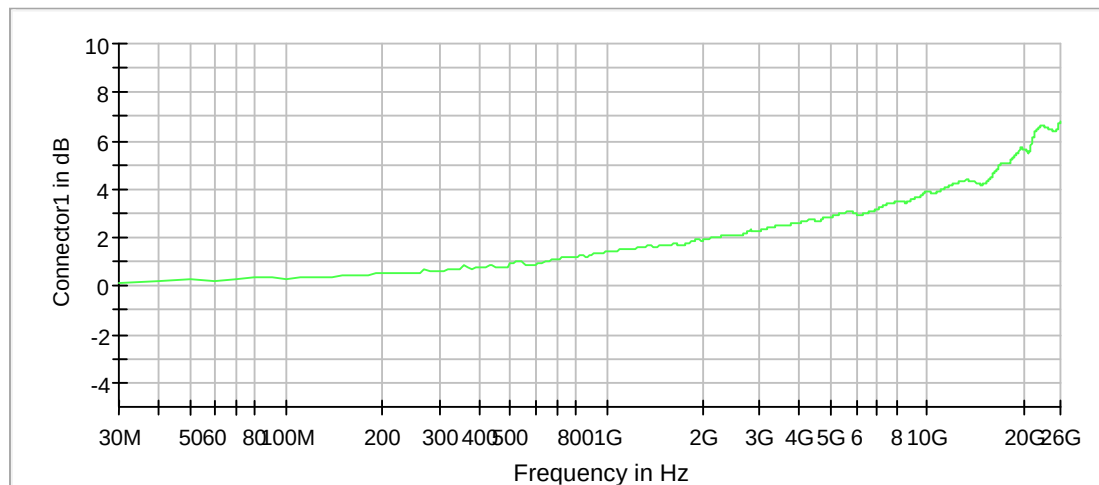
Spurious



Gain

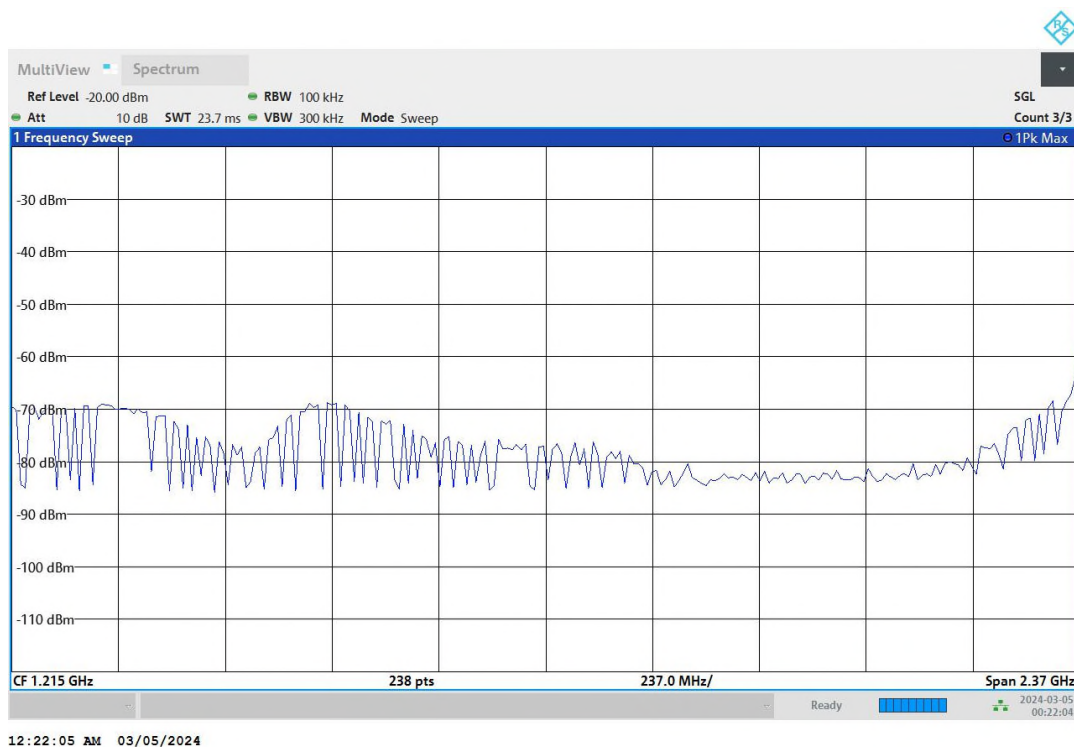


Attenuation

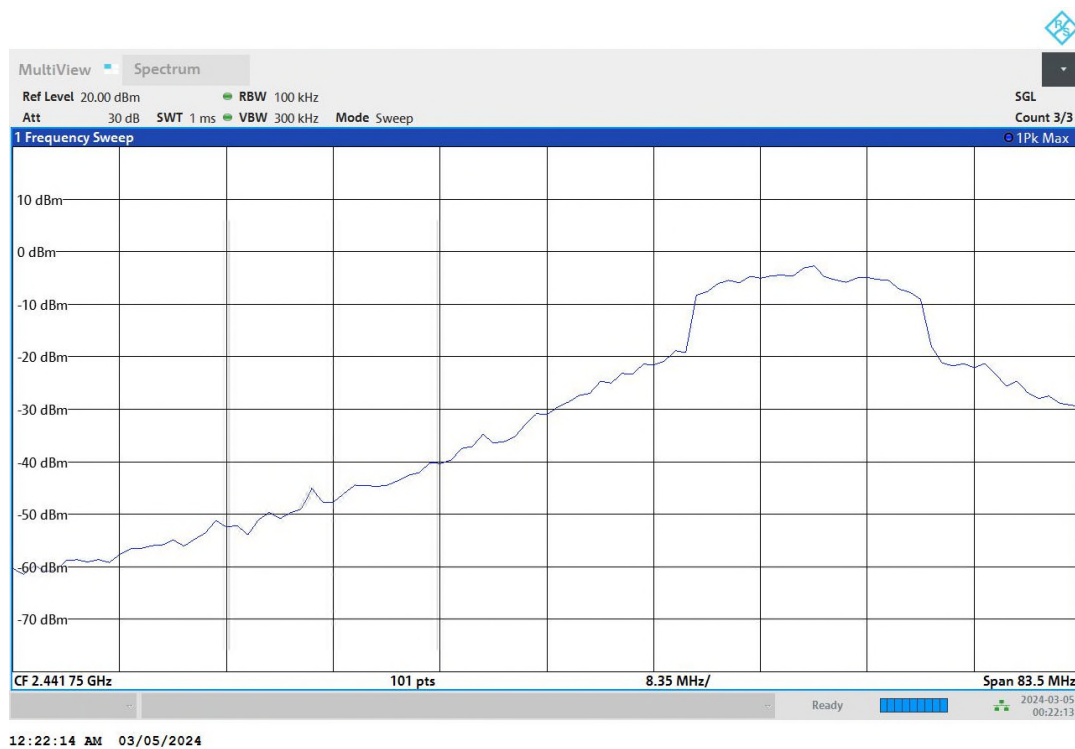


Connector1

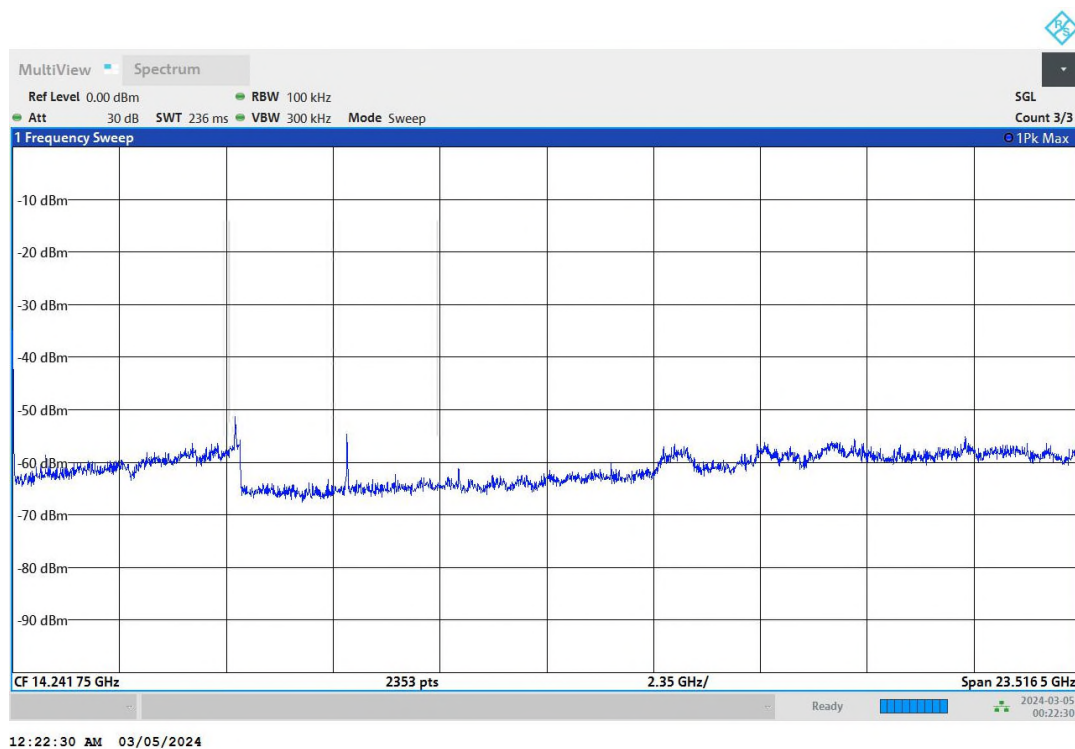
Spurious Connector 1_0



Spurious Connector 1_1



Spurious Connector 1_2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

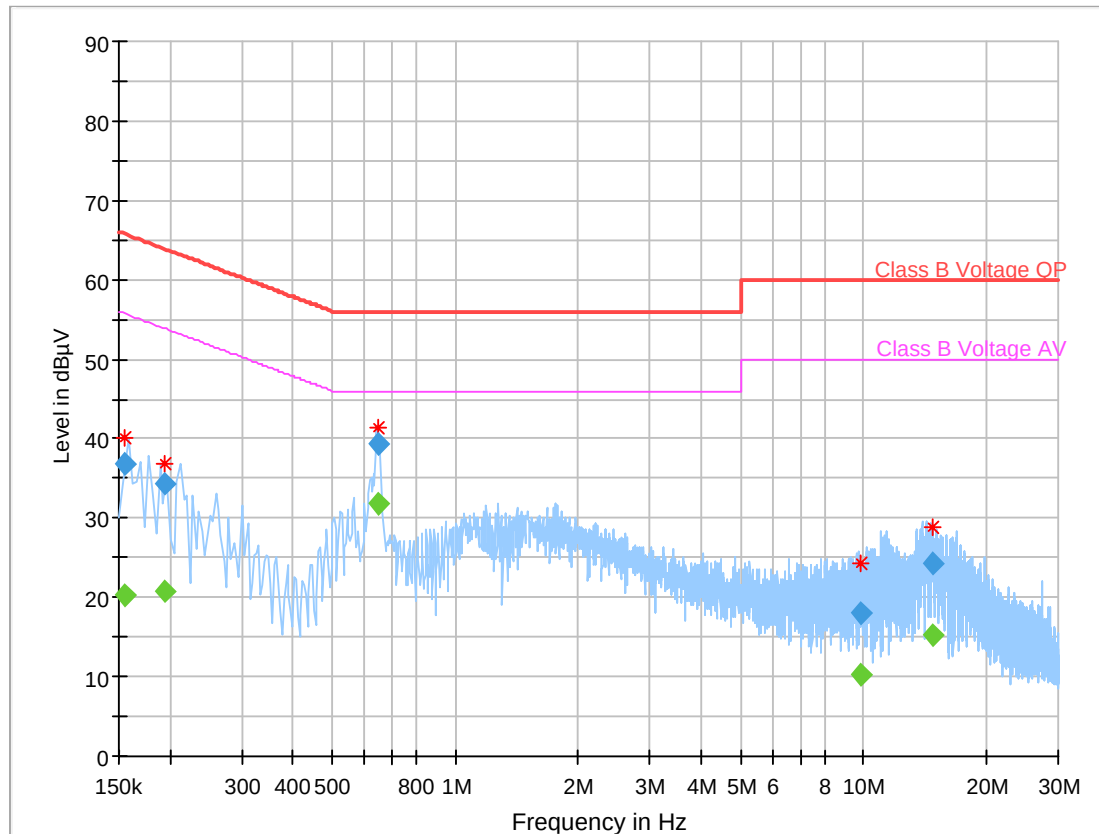
1.01_WLAN2.4GHz_low_ANT1

Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, cetecom advanced GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.107, FCC 15.207
Operating Mode:	b-mode 2Mbps: channel 1
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 41 % rH; Temperature: 24 °C
Operator:	SOz
Comments:	120 V AC / 60Hz
EUT Setup:	2
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S14_C02
	Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.155000	36.94	---	65.73	28.79	1000.0	9.000	N	GND	0.1
0.155000	---	20.37	55.73	35.36	1000.0	9.000	N	GND	0.1
0.195000	34.40	---	63.82	29.42	1000.0	9.000	L1	GND	0.1
0.195000	---	20.82	53.82	33.00	1000.0	9.000	L1	GND	0.1
0.648594	39.25	---	56.00	16.75	1000.0	9.000	L1	GND	0.2
0.648594	---	31.84	46.00	14.16	1000.0	9.000	L1	GND	0.2
9.829375	18.03	---	60.00	41.97	1000.0	9.000	L1	GND	0.5
9.829375	---	10.37	50.00	39.63	1000.0	9.000	L1	GND	0.5
14.700000	---	15.25	50.00	34.75	1000.0	9.000	N	GND	0.8
14.700000	24.21	---	60.00	35.79	1000.0	9.000	N	GND	0.8

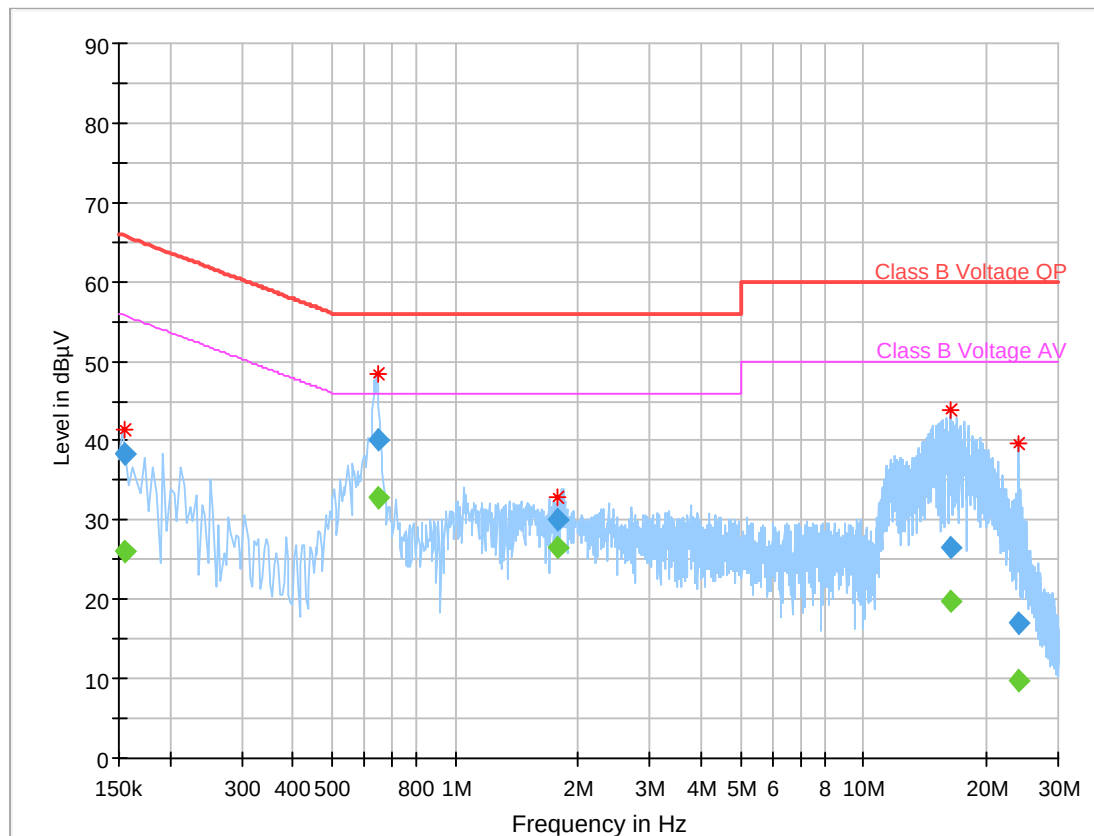
1.02_WLAN2.4GHz_mid_ANT1

Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, cetecom advanced GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.107, FCC 15.207
Operating Mode:	g-mode 12Mbps: channel 6
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 41 % rH; Temperature: 24 °C
Operator:	SOz
Comments:	120 V AC / 60Hz
EUT Setup:	2
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S14_C02
	Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.155000	---	26.18	55.73	29.55	1000.0	9.000	L1	GND	0.1
0.155000	38.30	---	65.73	27.43	1000.0	9.000	L1	GND	0.1
0.644688	---	32.76	46.00	13.24	1000.0	9.000	L1	GND	0.2
0.644688	40.00	---	56.00	16.00	1000.0	9.000	L1	GND	0.2
1.780938	30.13	---	56.00	25.87	1000.0	9.000	N	GND	0.3
1.780938	---	26.45	46.00	19.55	1000.0	9.000	N	GND	0.3
16.387969	---	19.74	50.00	30.26	1000.0	9.000	L1	GND	0.9
16.387969	26.55	---	60.00	33.45	1000.0	9.000	L1	GND	0.9
23.972188	17.15	---	60.00	42.85	1000.0	9.000	L1	GND	1.1
23.972188	---	9.83	50.00	40.17	1000.0	9.000	L1	GND	1.1

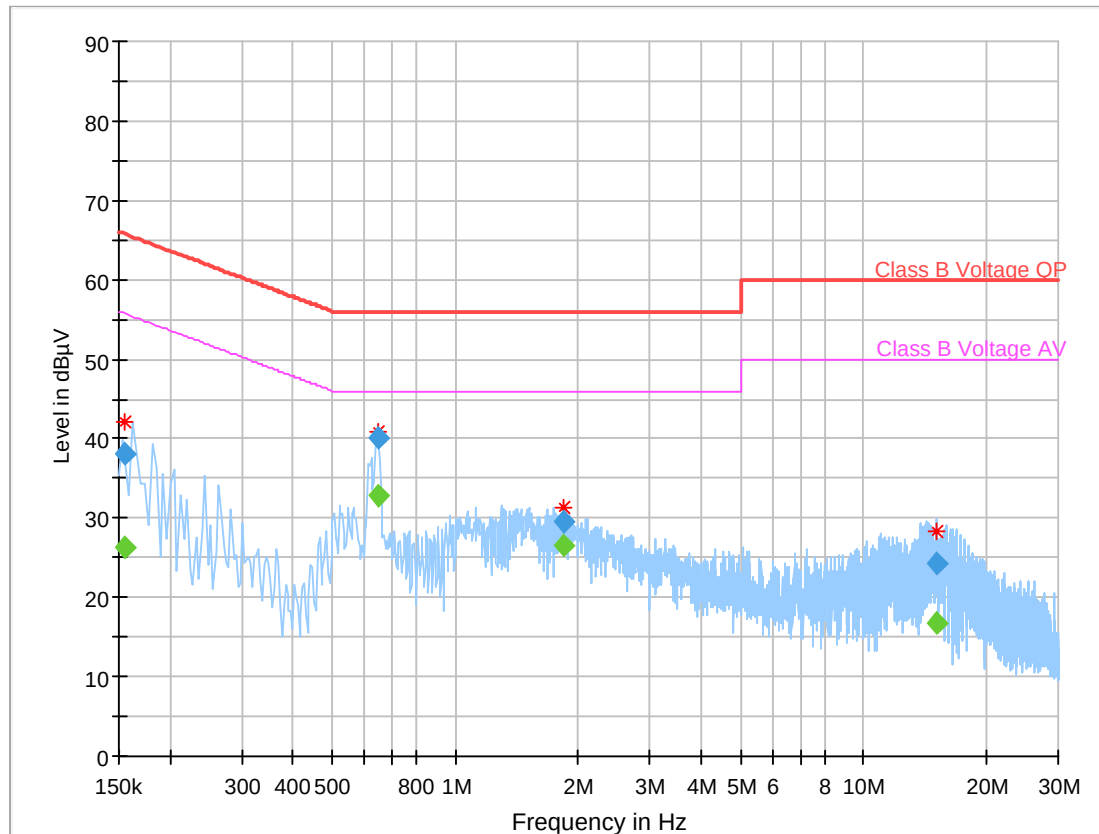
1.03_WLAN2.4GHz_high_ANT1

Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, cetekom advanced GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.107, FCC 15.207
Operating Mode:	n-mode MCS0; channel 11
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 41 % rH; Temperature: 24 °C
Operator:	SOz
Comments:	120 V AC / 60 Hz
EUT Setup:	2
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S14_C01
	Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.155000	---	26.40	55.73	29.33	1000.0	9.000	L1	GND	0.1
0.155000	38.14	---	65.73	27.59	1000.0	9.000	L1	GND	0.1
0.644688	---	32.88	46.00	13.12	1000.0	9.000	L1	GND	0.2
0.644688	40.10	---	56.00	15.90	1000.0	9.000	L1	GND	0.2
1.838438	---	26.67	46.00	19.33	1000.0	9.000	N	GND	0.3
1.838438	29.70	---	56.00	26.30	1000.0	9.000	N	GND	0.3
15.150781	---	16.90	50.00	33.10	1000.0	9.000	N	GND	0.9
15.150781	24.25	---	60.00	35.75	1000.0	9.000	N	GND	0.9

2.01a_b-mode_2Mbps_ch01

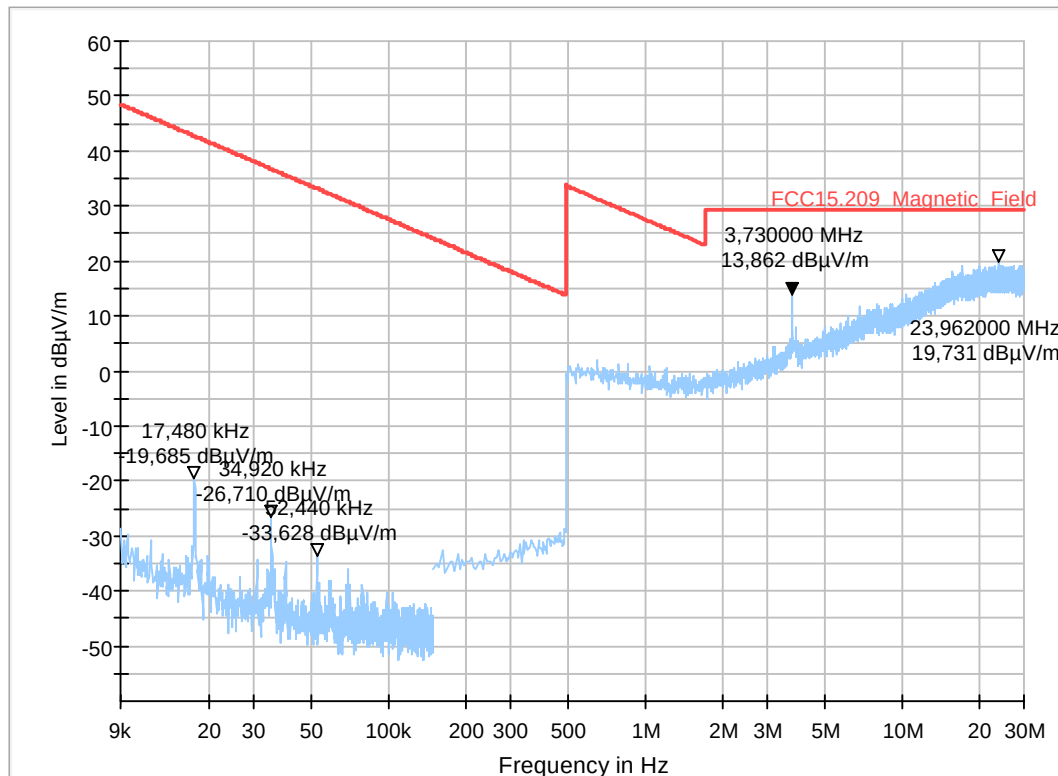
Common Information

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:	TX-on
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel low / standing
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S05_C01
Power:	120 V AC / 60Hz

Full Spectrum



2.01b_b-mode_2Mbps_ch01

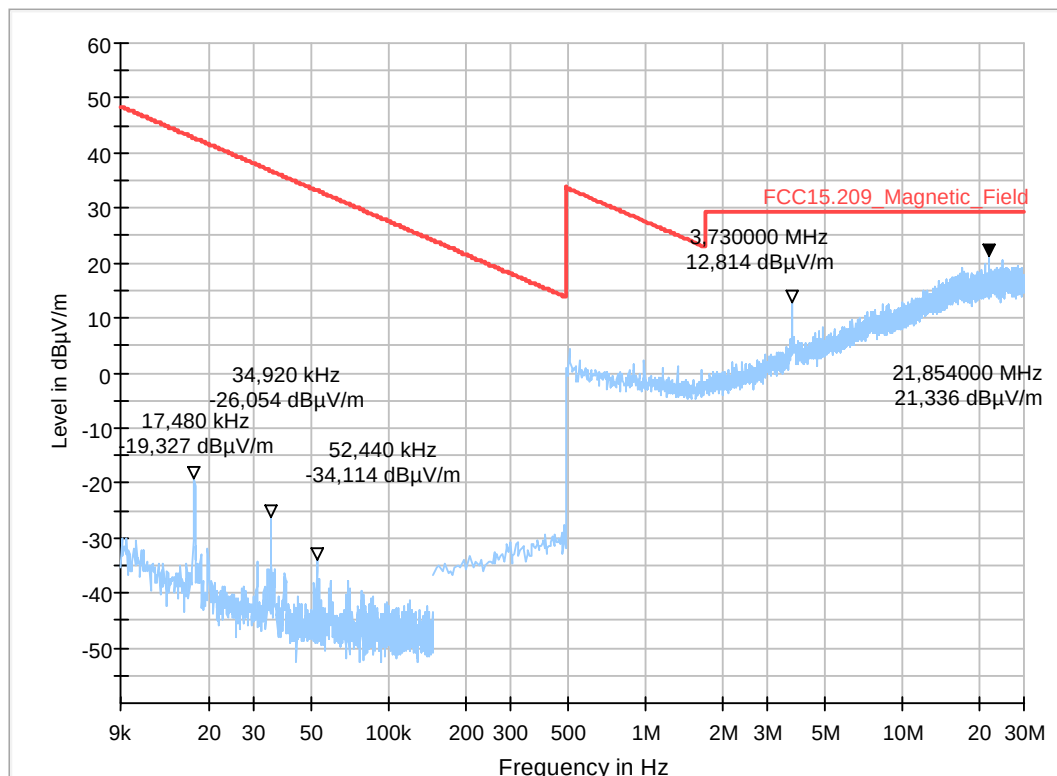
Common Information

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:	TX-on
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel low / standing
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S05_C01
Power:	120 V AC / 60 Hz

Full Spectrum



2.02_g-mode_12Mbps_ch06

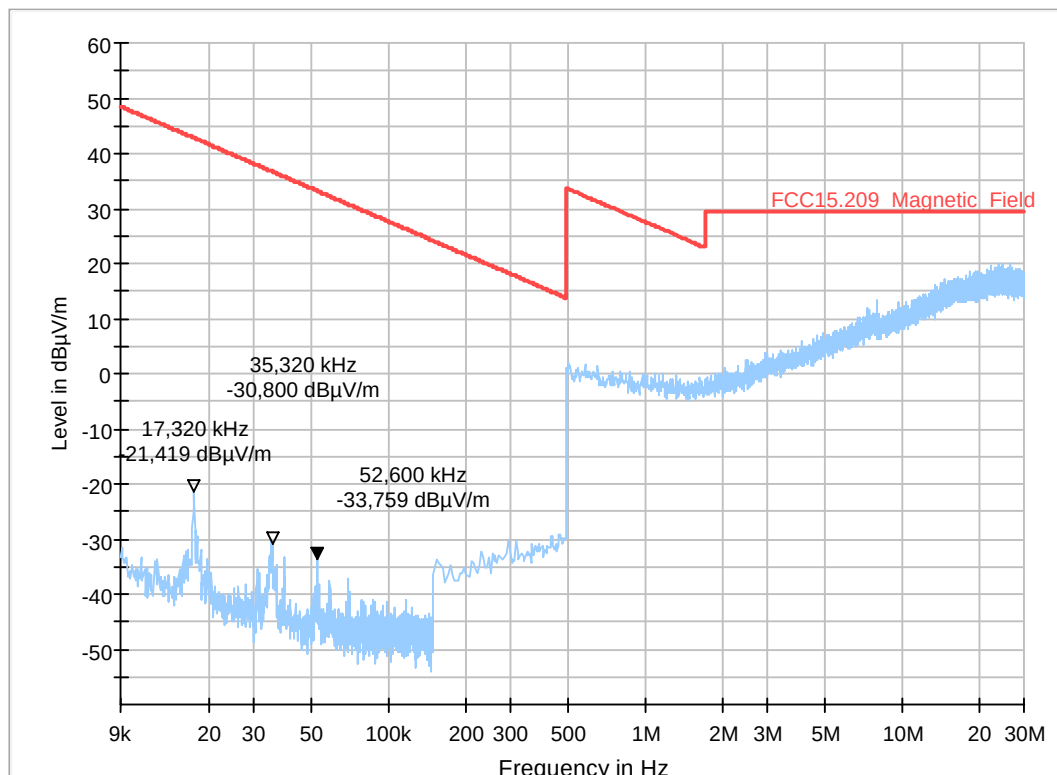
Common Information

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 V10.60.20
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 / PSt
Operating Mode:	n20-mode MCS0; ch11; 2462MHz; antenna 1
Power during tests:	120 V AC / 60Hz
Comment 1:	Channel mid
Comment 2:	
Environmental Conditions:	Humidity: 44 % rH; Temperature: 20.2 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S14_C02
Power:	120 V AC, 60 Hz

Full Spectrum



2.03_n20-mode_MCS0_ch11

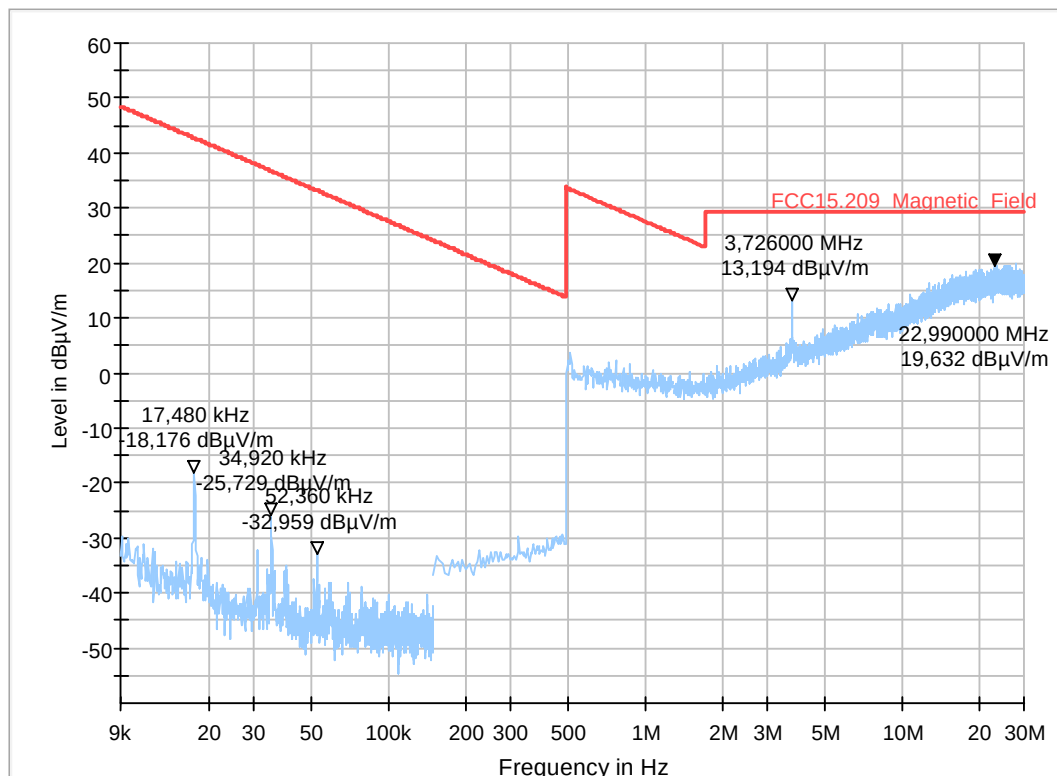
Common Information

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:	KTe
Operating Mode:	TX-on
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel 11 / standing
Environmental Conditions:	Humidity: 40 % rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S05_C01
Power:	120 V AC / 60 Hz

Full Spectrum



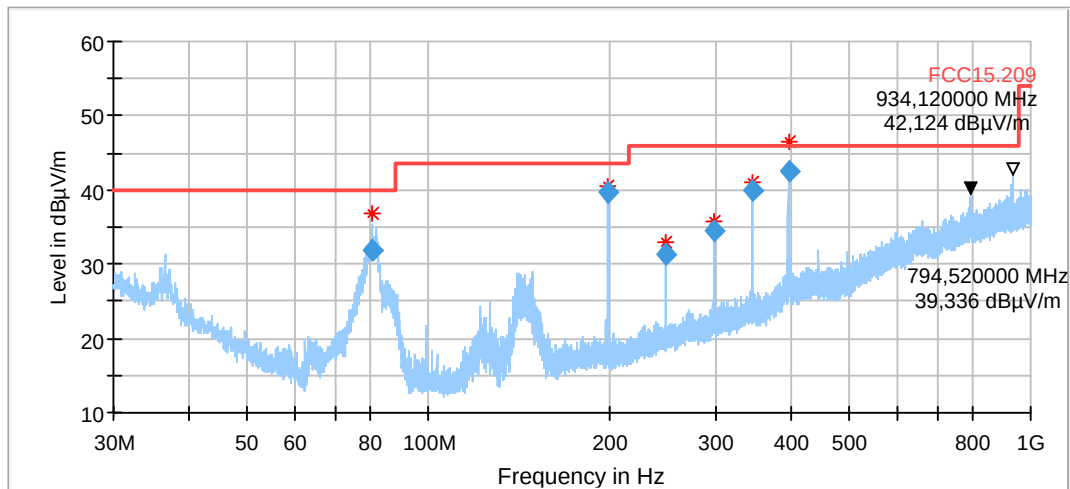
3.01a_b-mode_2Mbps_ch01

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH
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
EUT:	laying
Operating Mode:	TX
Power supply:	120 V AC / 60Hz
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S05_C01
Power:	120 V AC / 60Hz



Remark: Emission at 794.52 MHz and 934.12 MHz are outside from chamber and not related to results.

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
80.870000	31.85	40.00	8.15	120.000	105.0	V	255.0	7.0	0.0	0.9
197.990000	39.67	43.50	3.83	120.000	172.0	H	48.0	11.0	0.0	1.4
247.510000	31.26	46.00	14.74	120.000	107.0	H	193.0	13.0	0.0	1.6
296.990000	34.39	46.00	11.61	120.000	115.0	H	33.0	15.0	0.0	1.7
346.510000	40.07	46.00	5.93	120.000	100.0	H	36.0	16.6	0.0	1.8
395.990000	42.42	46.00	3.58	120.000	296.0	H	0.0	19.6	0.0	2.2

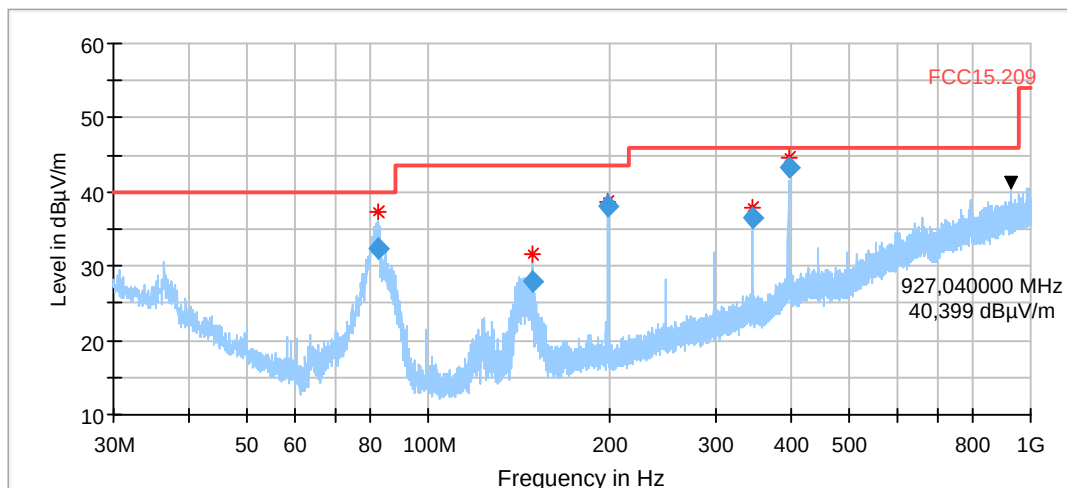
3.01b_b-mode_2Mbps_ch01

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH
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
EUT:	Standing
Operating Mode:	TX
Power supply:	120 V AC / 60 Hz
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S05_C01
Power:	120 V AC / 60 Hz



Remark: Emission at 927.04 MHz is outside from chamber and not related to results.

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
82.470000	32.50	40.00	7.50	120.000	135.0	V	266.0	7.3	0.0	1.0
148.530000	28.09	43.50	15.41	120.000	109.0	V	174.0	8.0	0.0	1.1
197.990000	38.01	43.50	5.49	120.000	105.0	V	97.0	11.0	0.0	1.4
346.510000	36.44	46.00	9.56	120.000	100.0	H	36.0	16.6	0.0	1.8
395.990000	43.22	46.00	2.78	120.000	216.0	H	65.0	19.6	0.0	2.2

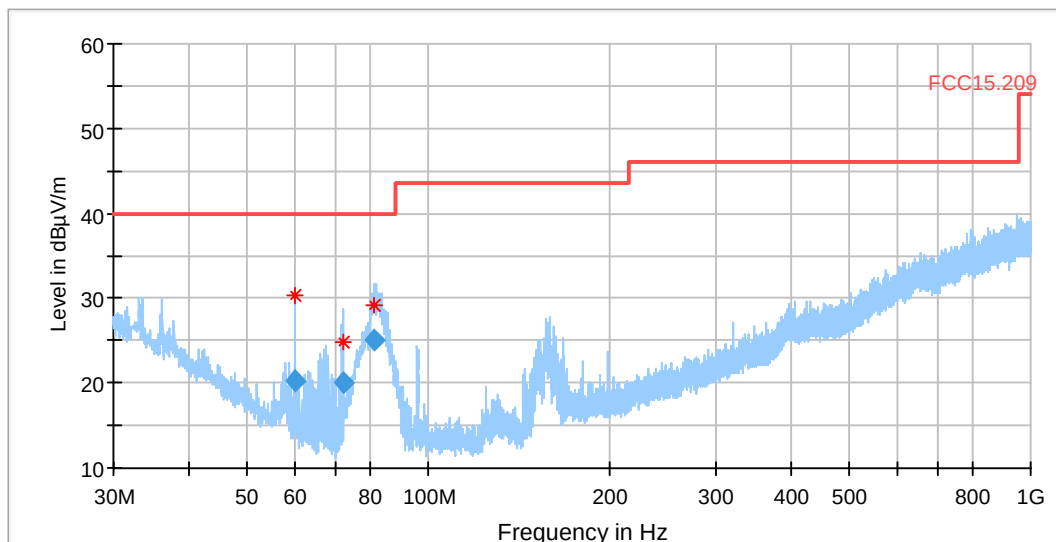
3.02_g-mode_12Mbps_ch06

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 41 % rH; Temperature: 21 °C
Operator Name:	PSt
EUT:	Standing
Operating Mode:	g-mode 12Mbps; ch06; 2437MHz
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S14_C02
Power:	120 V AC, 60 Hz



Final Result

Frequency (MHz)	Quasi Peak (dBμV /m)	Limit (dBμV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)
60.030000	20.30	40.00	19.70	120.000	126.0	V	56.0	8.1	0.0
71.990000	20.10	40.00	19.90	120.000	116.0	V	135.0	6.3	0.0
81.370000	25.13	40.00	14.87	120.000	121.0	V	58.0	7.1	0.0

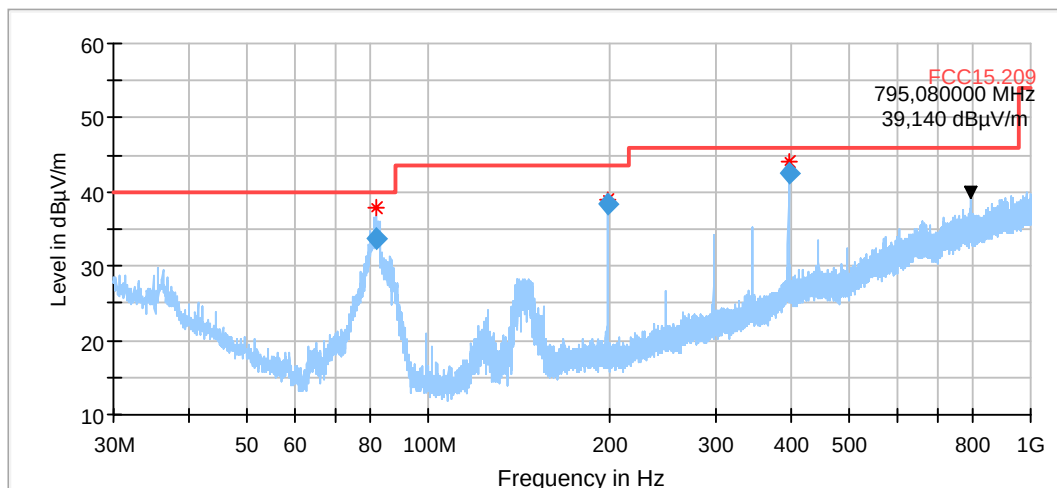
3.03_n20-mode_MCS0_ch11

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH
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
EUT:	standing
Operating Mode:	TX
Power supply:	120 V AC / 60 Hz
Comment:	Channel no. high
Verdict:	Passed

EUT Information

PMT number:	23-1-00516S05_C01
Power:	120 V AC / 60Hz



Remark: Emission at 795.08 MHz is outside from chamber and not related to results.

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
81.710000	33.61	40.00	6.39	120.000	128.0	V	261.0	7.2	0.0	1.0
197.990000	38.47	43.50	5.03	120.000	105.0	V	180.0	11.0	0.0	1.4
395.990000	42.62	46.00	3.38	120.000	218.0	H	62.0	19.6	0.0	2.2

4.10_b-mode_2Mbps_ch01

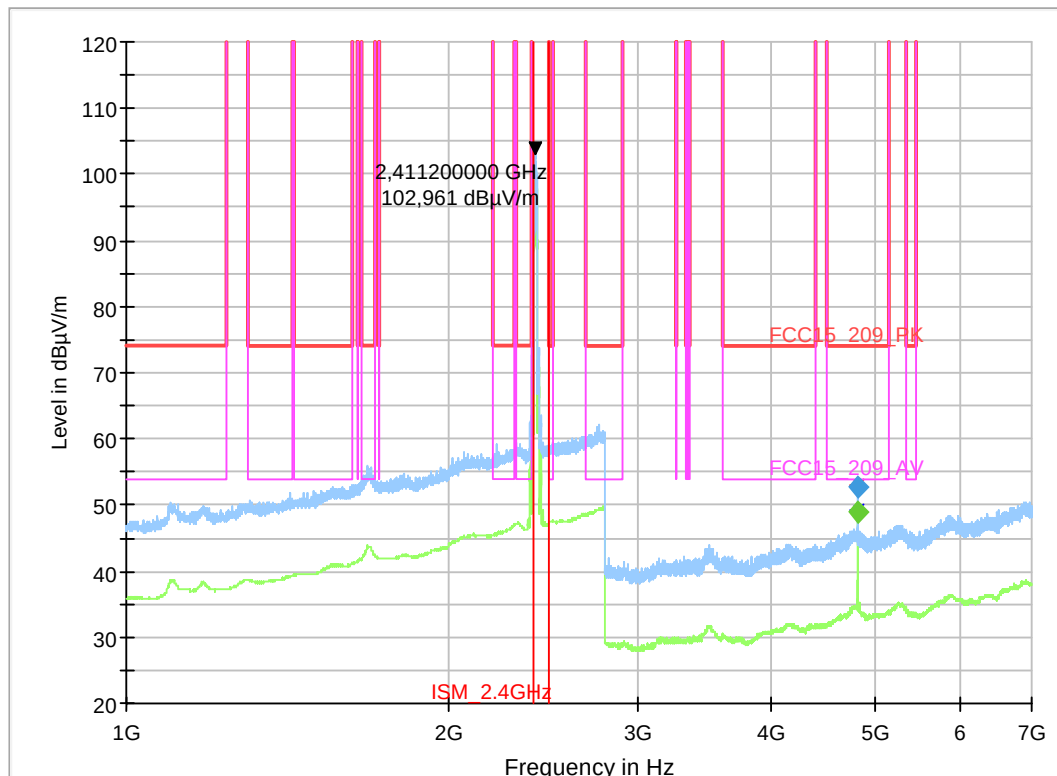
Common Information

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:	b-mode_2Mbps_ch01
Operator:	Asa / SOz
Environmental Conditions:	Humidity: 60 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60 Hz

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Marg in (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
4824.000000	---	48.89	54.00	5.11	100.0	1000.00	155.	H	91.0	0.0
4824.000000	52.78	---	74.00	21.22	100.0	1000.00	155.	H	91.0	0.0

4.11_b-mode_2Mbps_ch01

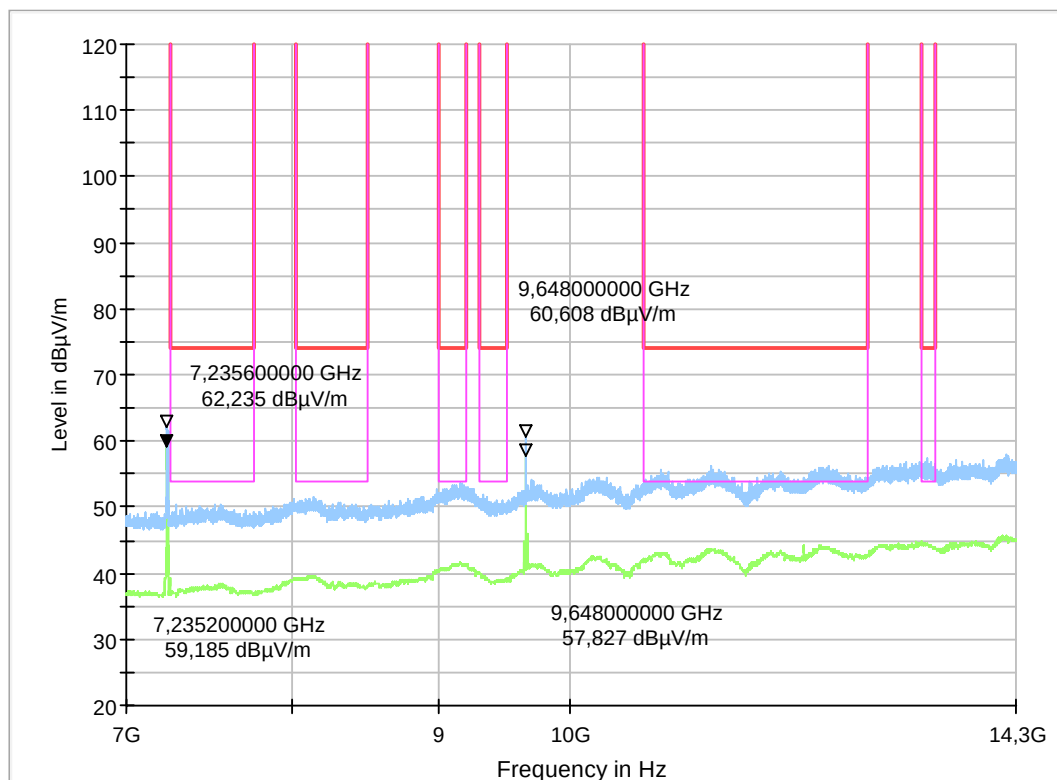
Common Information

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:	b-mode_2Mbps_ch01
Operator:	Asa / SOz
Environmental Conditions:	Humidity: 60 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60 Hz

Full Spectrum



4.12_b-mode_2Mbps_ch01

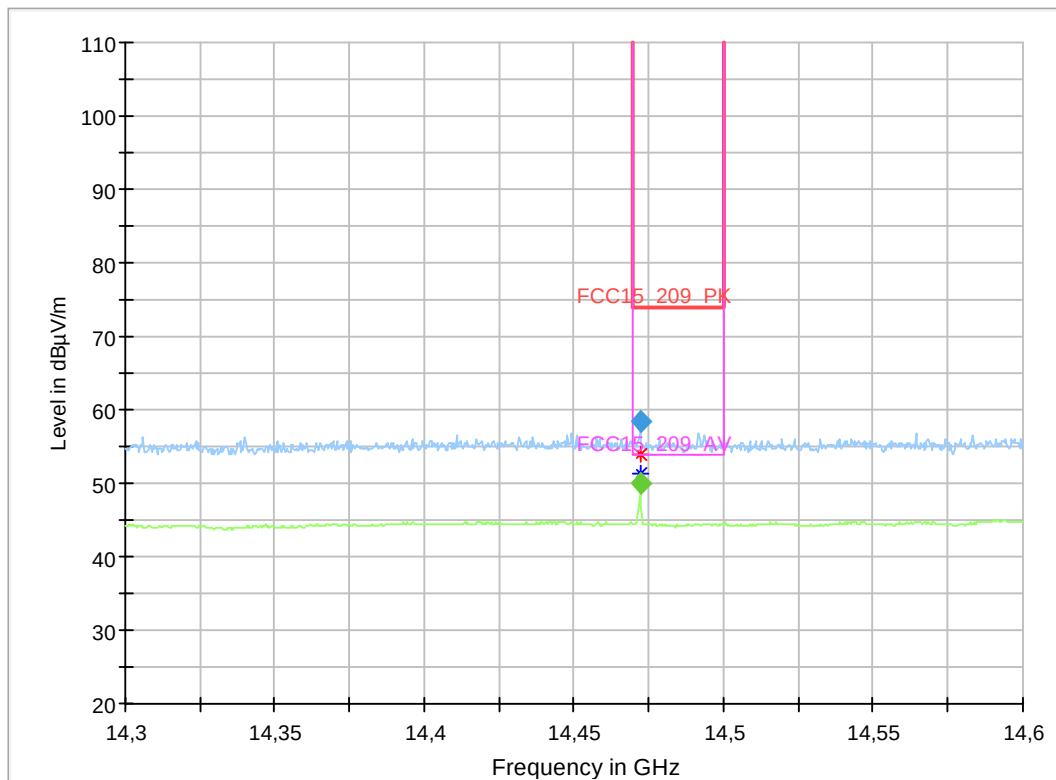
Common Information

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:	b-mode_2Mbps_ch01
Set-up no.	1
Operator:	SOz
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60 Hz

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Marg in (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
14471.970000	58.40	---	74.00	15.60	100.0	1000.00	155.	V	195.0	90.0
14471.970000	---	50.03	54.00	3.97	100.0	1000.00	155.	V	210.0	90.0

4.13_b-mode_2Mbps_ch01

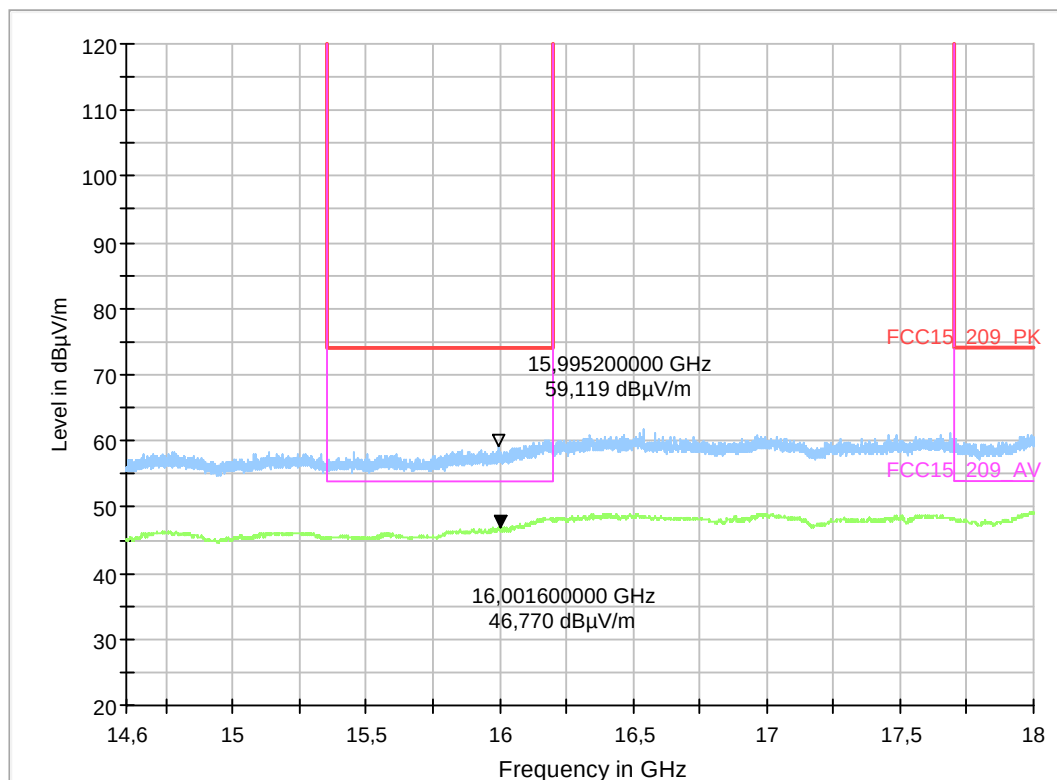
Common Information

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:	b-mode_2Mbps_ch01
Operator:	Asa/SOz
Environmental Conditions:	Humidity: 60 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60 Hz

Full Spectrum



4.14_b-mode_2Mbps_ch01

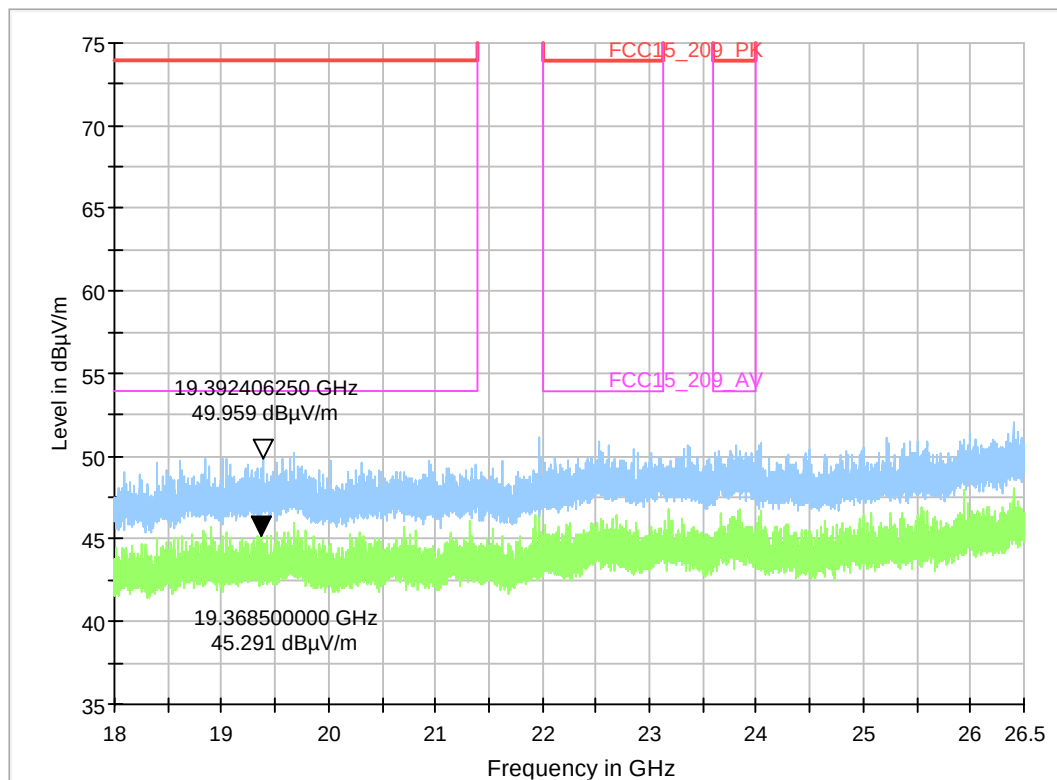
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetekom advanced Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	b-mode 2Mbps; ch01; 2412MHz
Environmental Conditions:	Humidity: 45 % rH; Temperature: 21 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.	23-1-00516S14_C02
power:	120 V AC / 60 Hz

Full Spectrum



4.15_g-mode_12Mbps_ch06

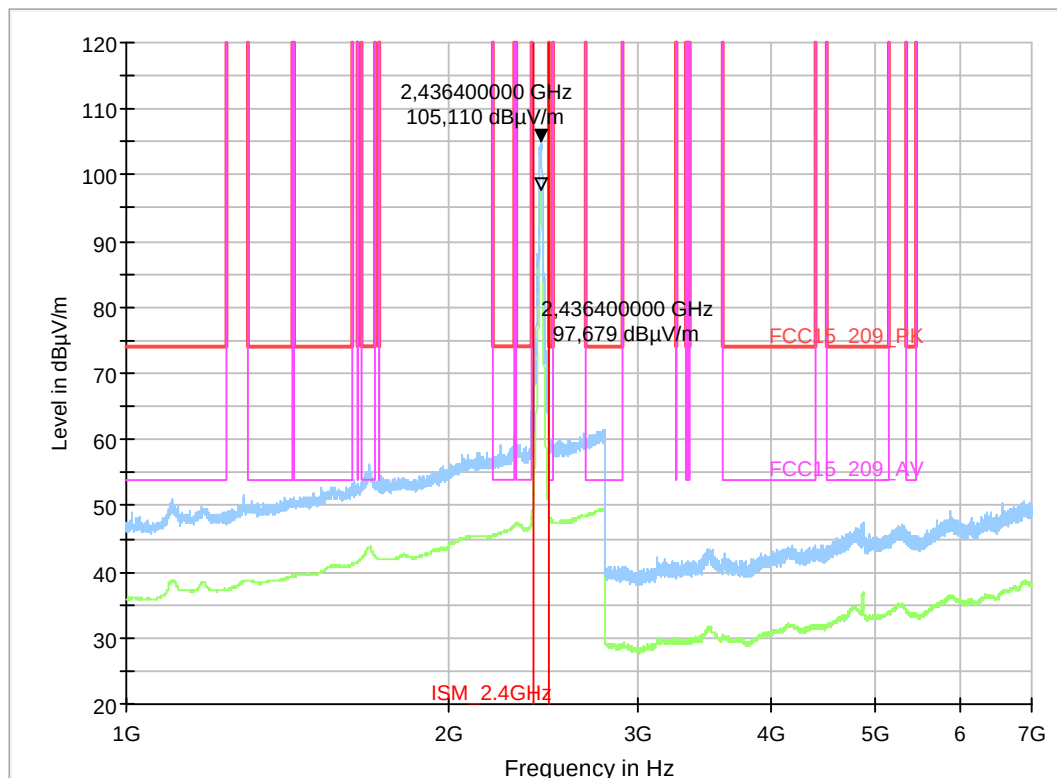
Common Information

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:	g-mode_12Mbps_ch06
Operator:	Asa
Environmental Conditions:	Humidity: 60 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60 Hz

Full Spectrum



4.16_g-mode_12Mbps_ch06

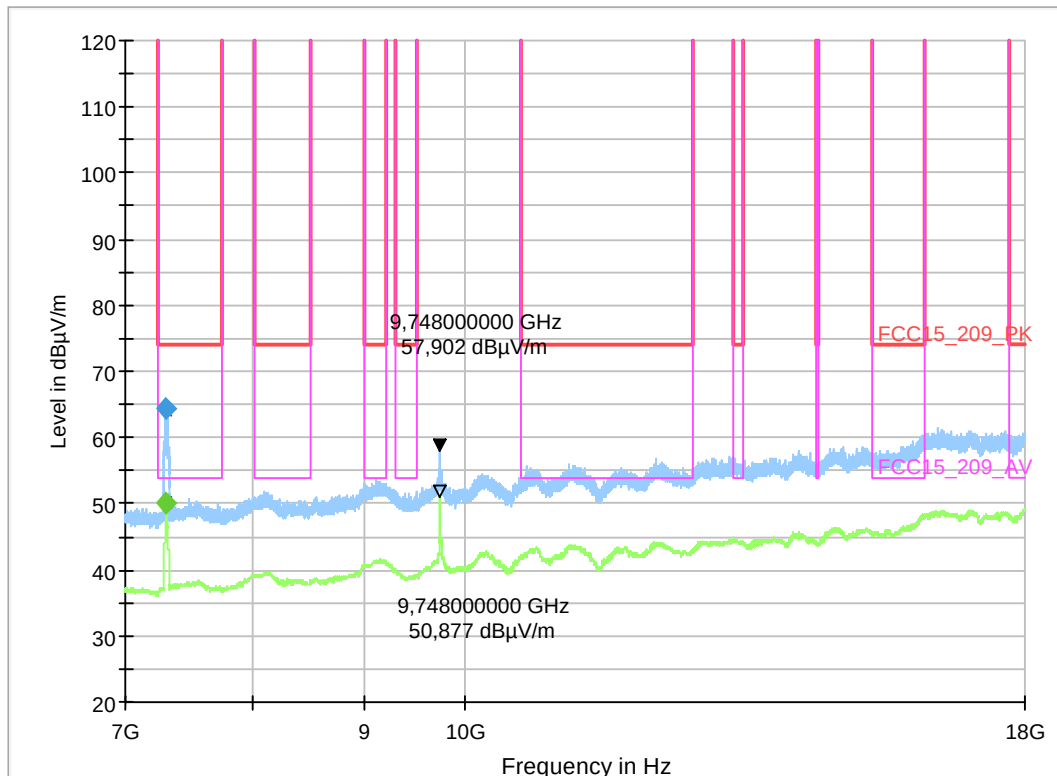
Common Information

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:	g-mode_12Mbps_ch06
Operator:	Asa
Environmental Conditions:	Humidity: 60 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60 Hz

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
7309.600000	---	50.02	54.00	3.98	100.0	1000.000	155.0	H	96.0	0.0
7309.600000	64.30	---	74.00	9.70	100.0	1000.000	155.0	H	123.0	0.0

4.17_g-mode_12Mbps_ch06

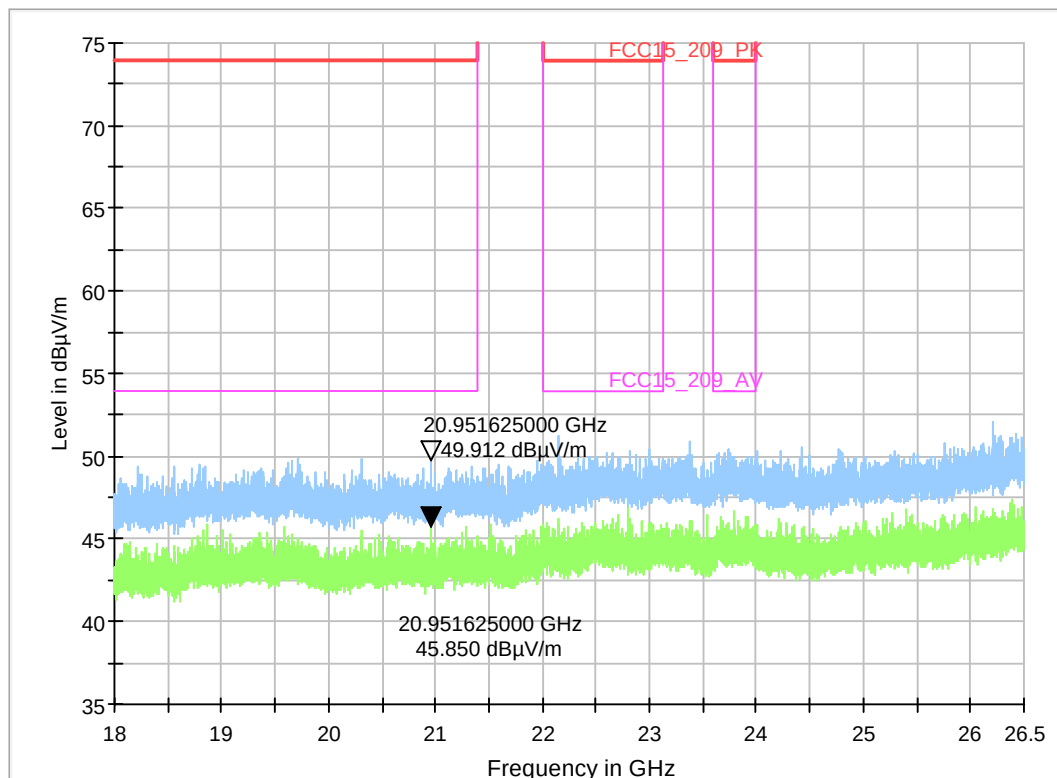
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetekom advanced Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	g-mode 12Mbps; ch06; 2437MHz
Environmental Conditions:	Humidity: 45 % rH; Temperature: 21 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.	23-1-00516S14_C02
power:	120 V AC / 60 Hz

Full Spectrum



4.18_n20-mode_MCS0_ch11

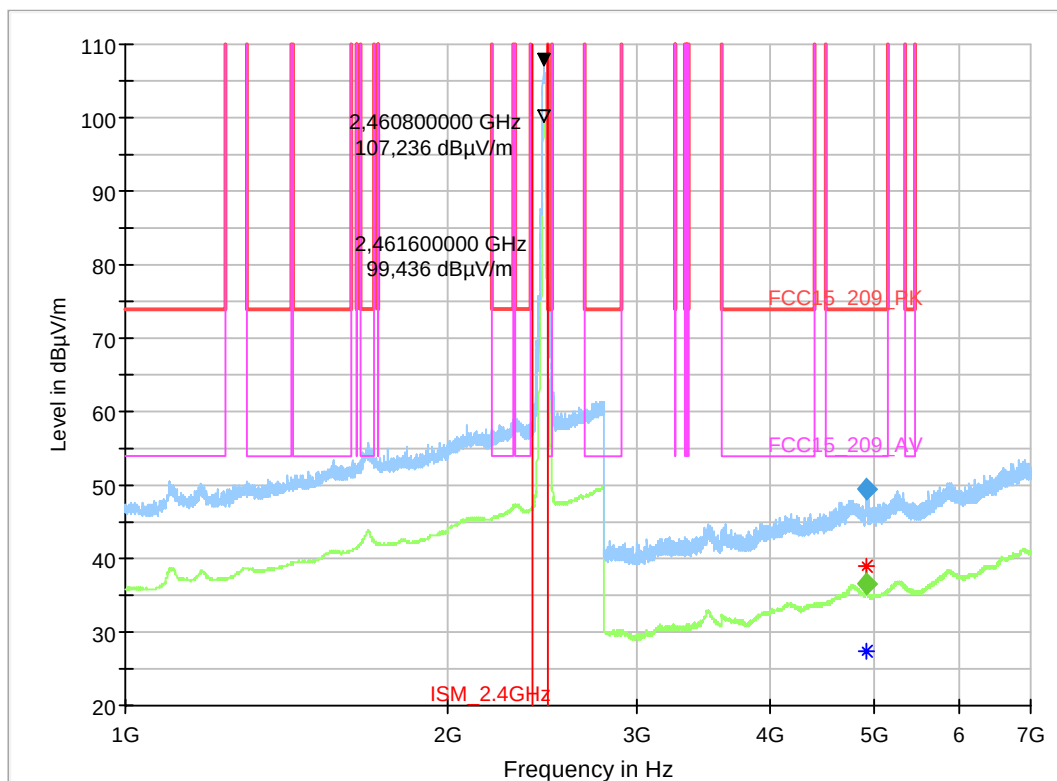
Common Information

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:	TX, continuous
Operator:	KTe
Comment:	Channel no. 11
Comment2:	Modulation Type: n20-mode Data Rate: MCS0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	23-1-00516S05_C01
Power Supply:	120 V AC / 60Hz

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4923.970000	49.51	---	74.00	24.49	100.0	1000.000	155.0	H	86.0	0.0
4926.170000	---	36.69	54.00	17.31	100.0	1000.000	155.0	H	84.0	0.0