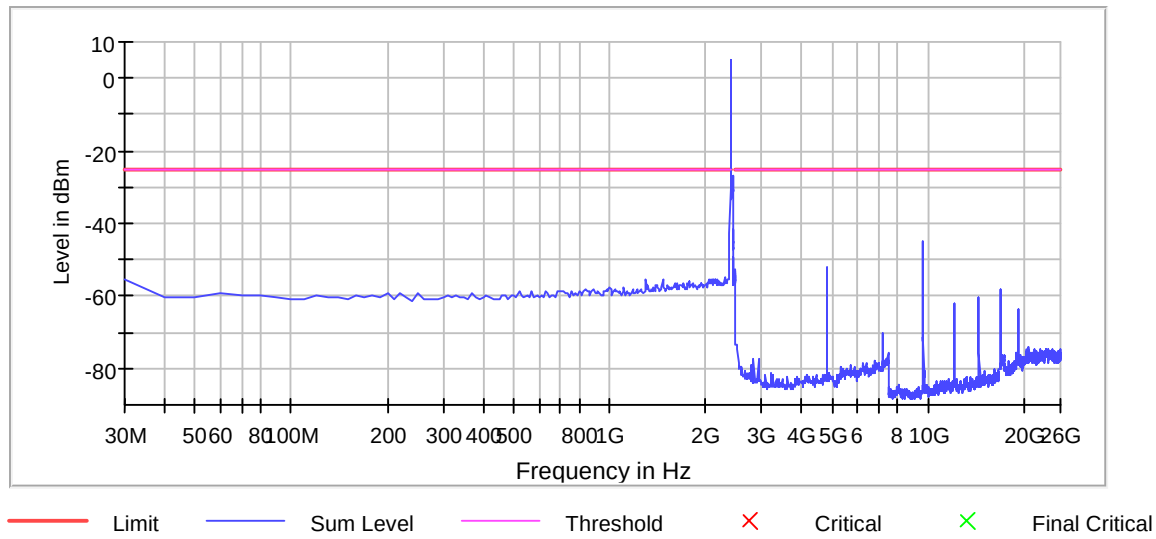
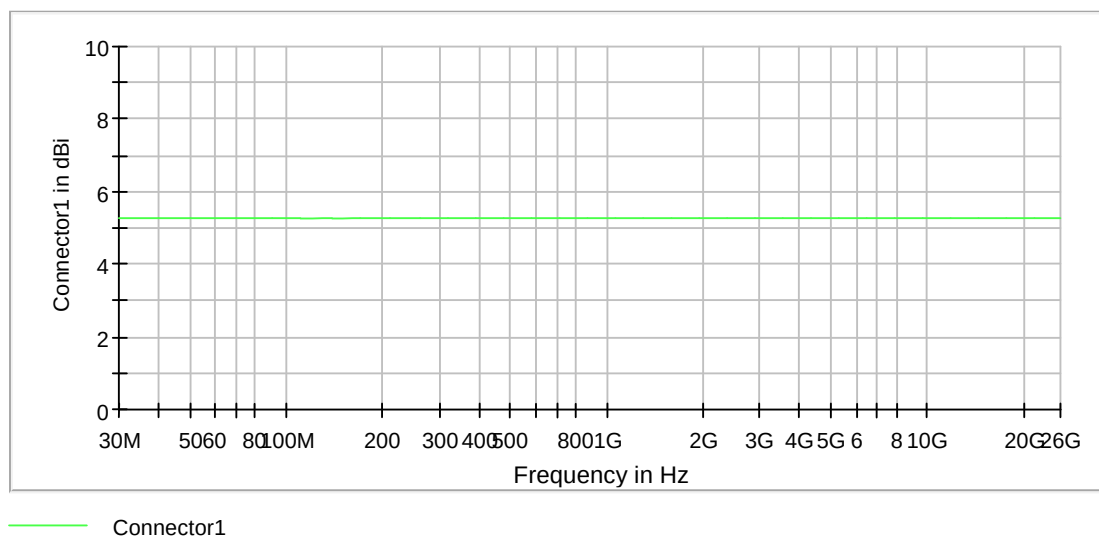


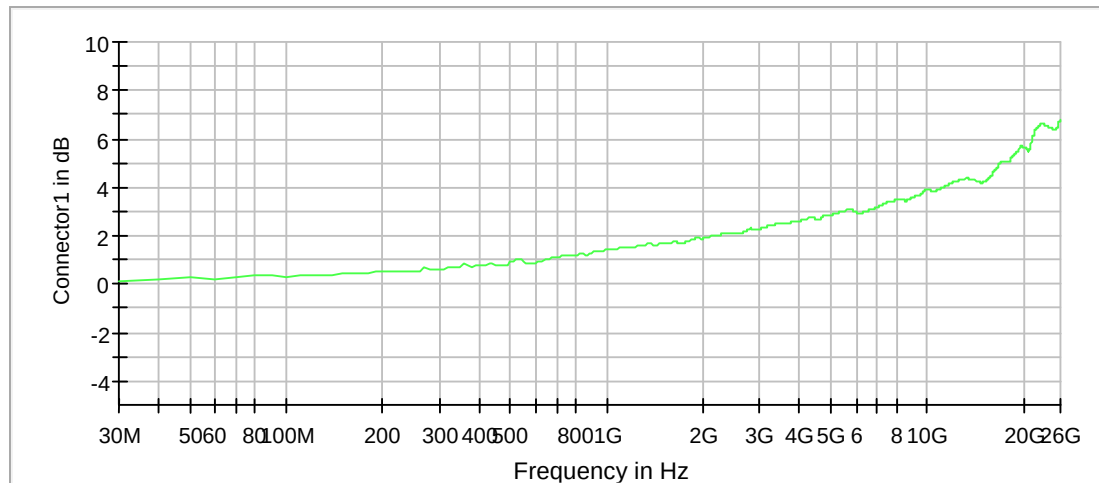
Spurious



Gain

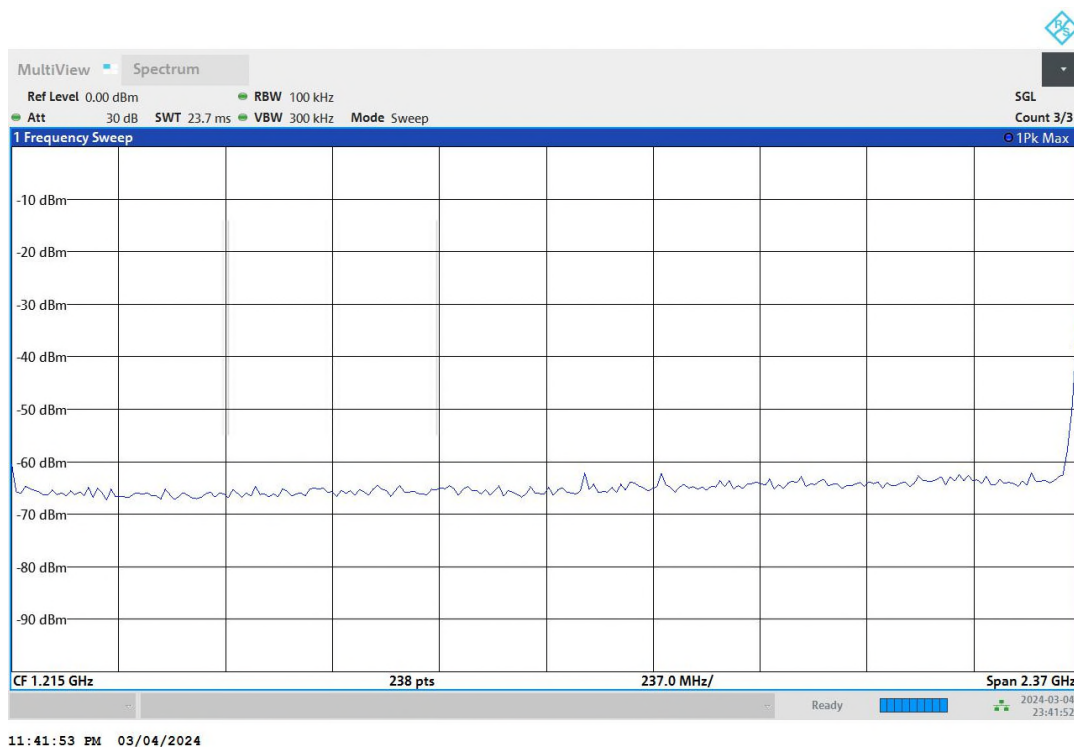


Attenuation



Connector1

Spurious Connector 1_0

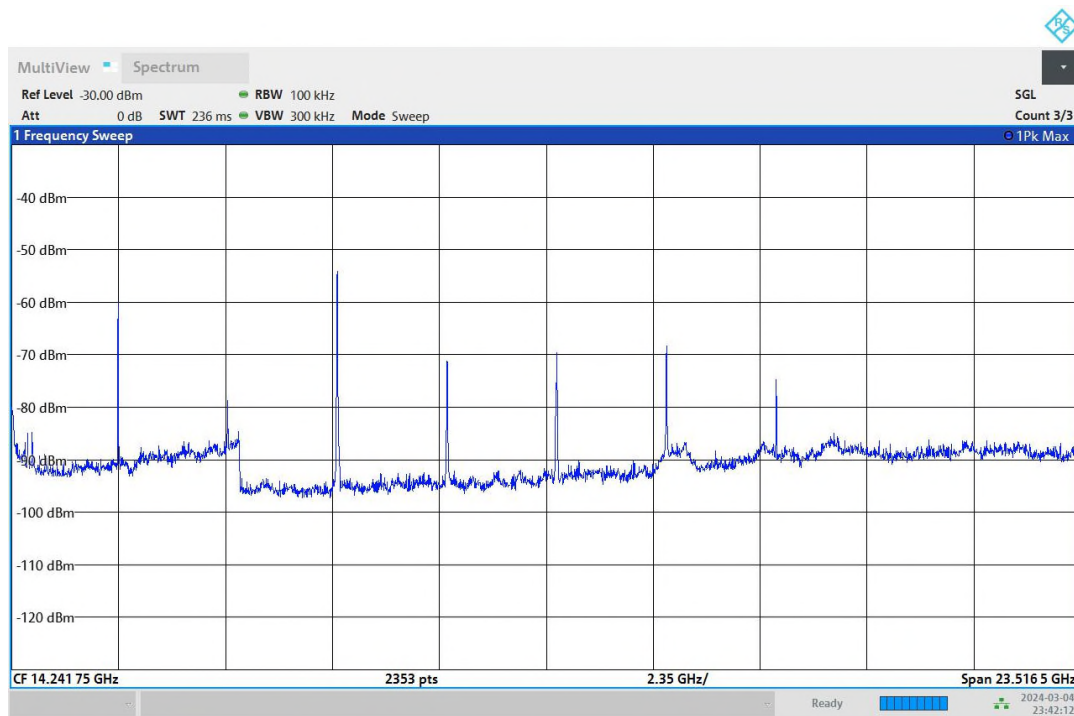


Spurious Connector 1_1



11:42:03 PM 03/04/2024

Spurious Connector 1_2



11:42:12 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	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	0.15 dB	0.50 dB

Tx Spurious Emission (2437 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
2437.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2437.575000	4.5

Final measurements

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

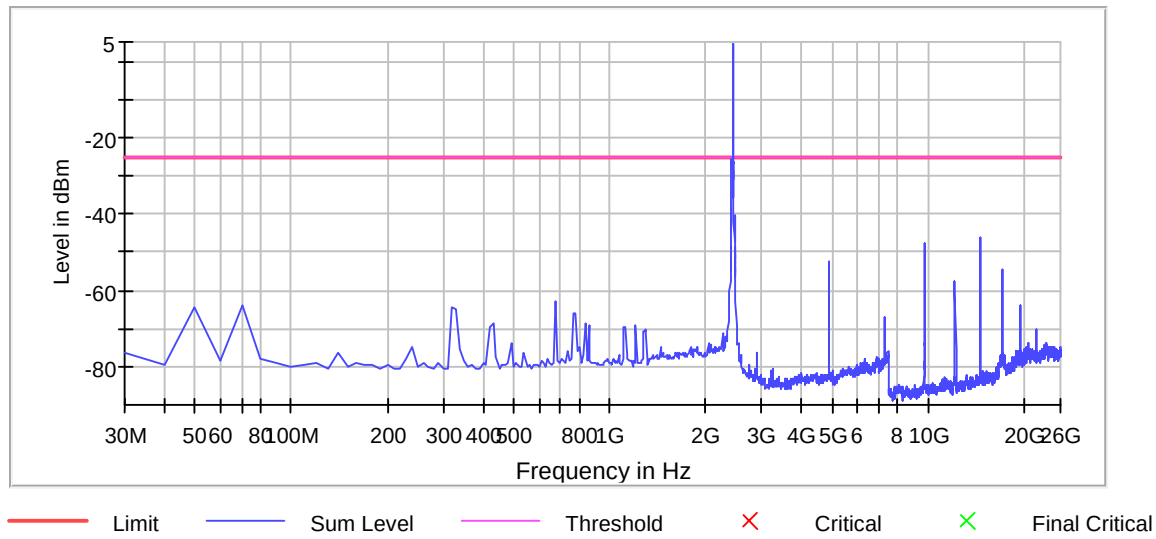
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
14621.693452	-46.4	20.9	-25.5
9742.419643	-47.9	22.4	-25.5
4873.144345	-52.6	27.1	-25.5
17061.330357	-54.5	29.1	-25.5
9752.418155	-57.4	32.0	-25.5
12182.056548	-57.6	32.2	-25.5
2390.000000	-57.9	32.4	-25.5
9732.421131	-59.2	33.7	-25.5
2380.000000	-60.3	34.8	-25.5
14611.694940	-60.5	35.0	-25.5
12192.055060	-60.6	35.2	-25.5
17051.331845	-61.1	35.7	-25.5
2493.498512	-62.7	37.3	-25.5
680.000000	-62.9	37.4	-25.5
19500.967262	-63.9	38.5	-25.5

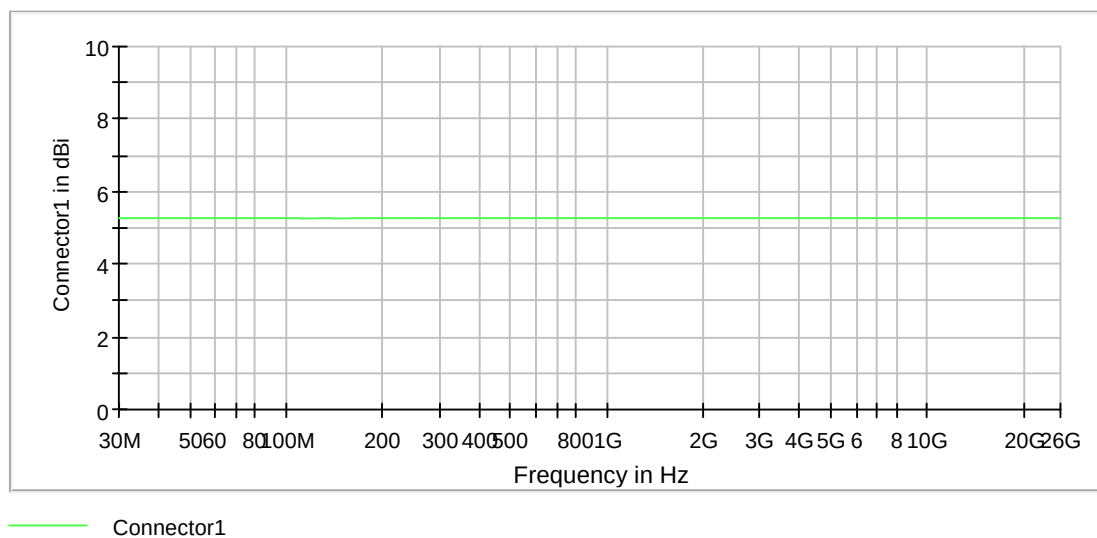
Measurement Settings

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

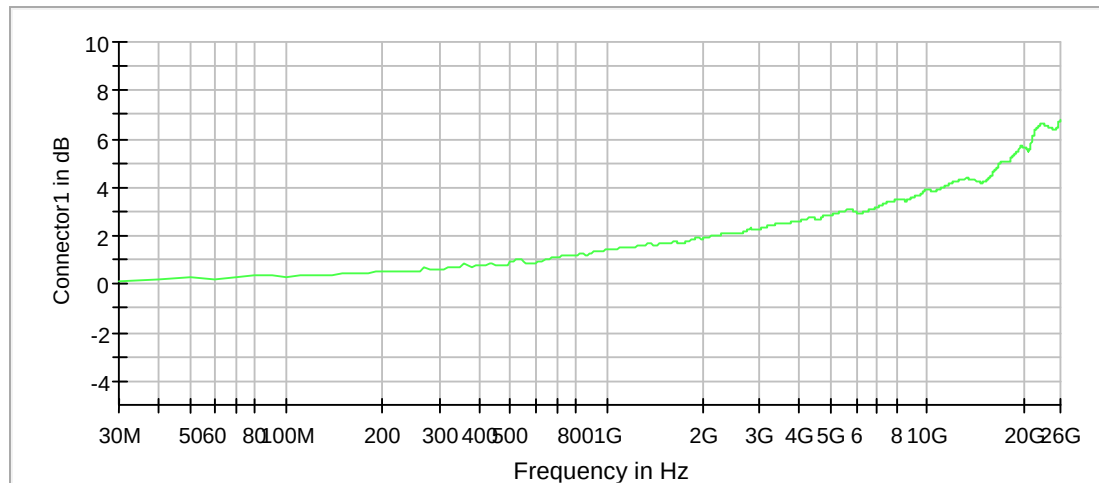
Spurious



Gain

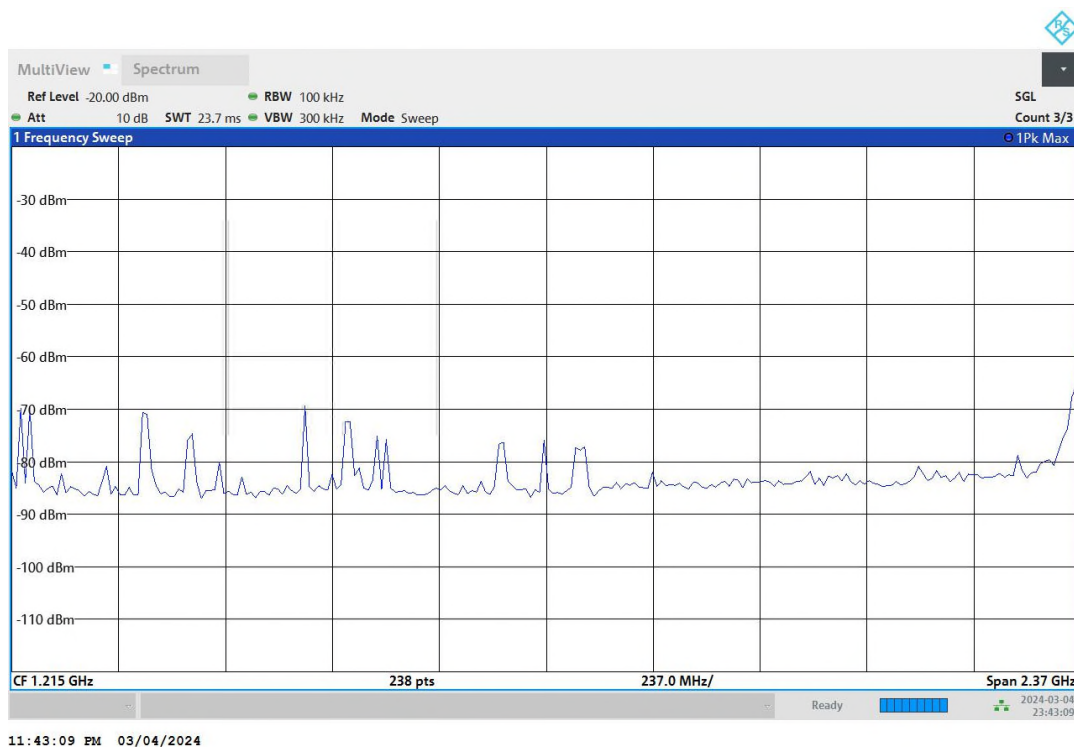


Attenuation

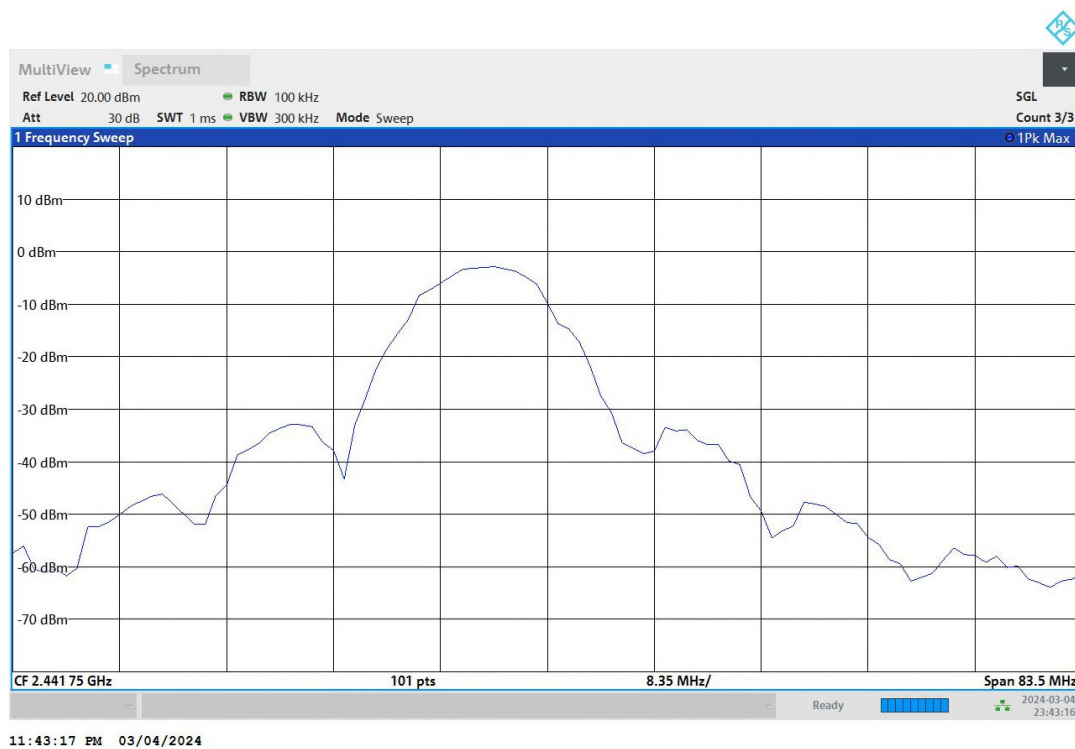


Connector1

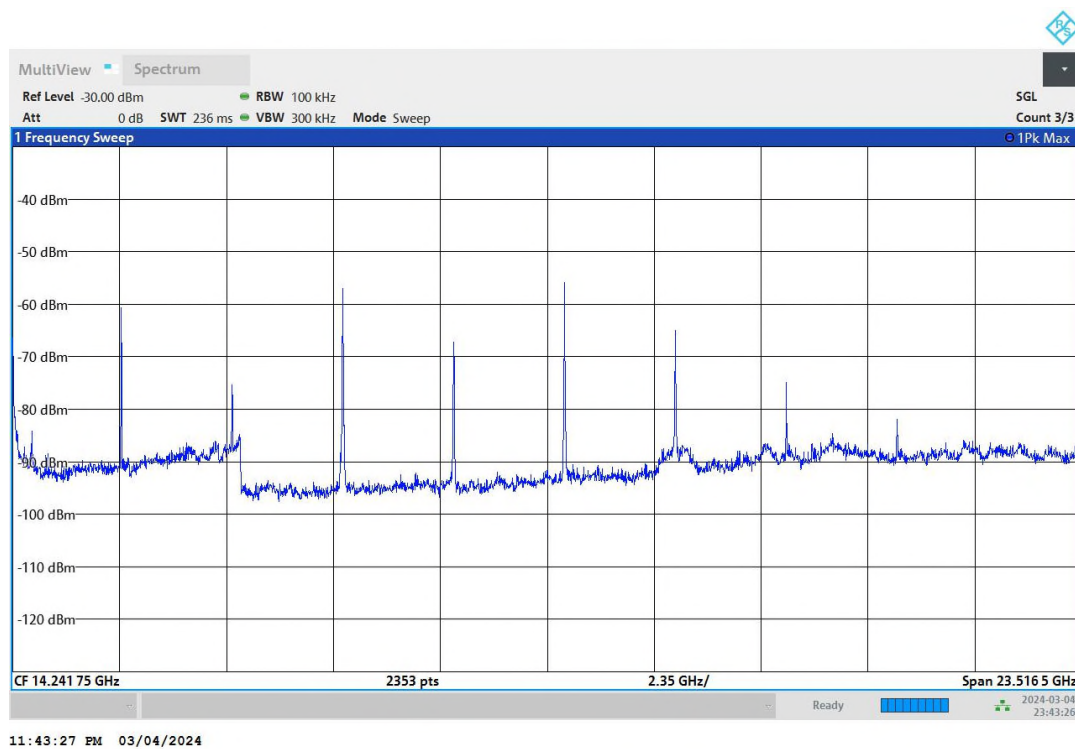
Spurious Connector 1_0



Spurious Connector 1_1



Spurious Connector 1_2



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	5 / 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	6.2

Final measurements

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

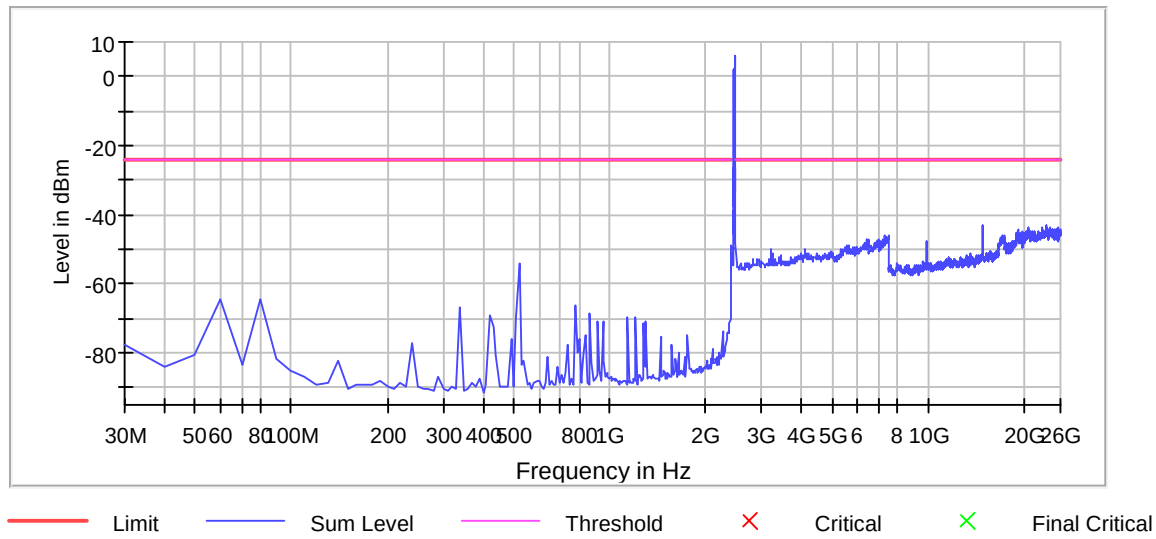
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
23520.369048	-43.0	19.2	-23.8
14771.671131	-43.0	19.2	-23.8
24180.270833	-43.6	19.8	-23.8
23400.386905	-43.6	19.8	-23.8
20600.803571	-43.7	19.9	-23.8
25780.032738	-43.8	20.0	-23.8
23380.389881	-43.8	20.0	-23.8
23640.351190	-43.8	20.0	-23.8
23430.382440	-43.9	20.0	-23.8
22830.471726	-43.9	20.1	-23.8
24330.248512	-44.0	20.2	-23.8
23570.361607	-44.0	20.2	-23.8
23580.360119	-44.1	20.2	-23.8
25090.135417	-44.1	20.3	-23.8
22720.488095	-44.1	20.3	-23.8

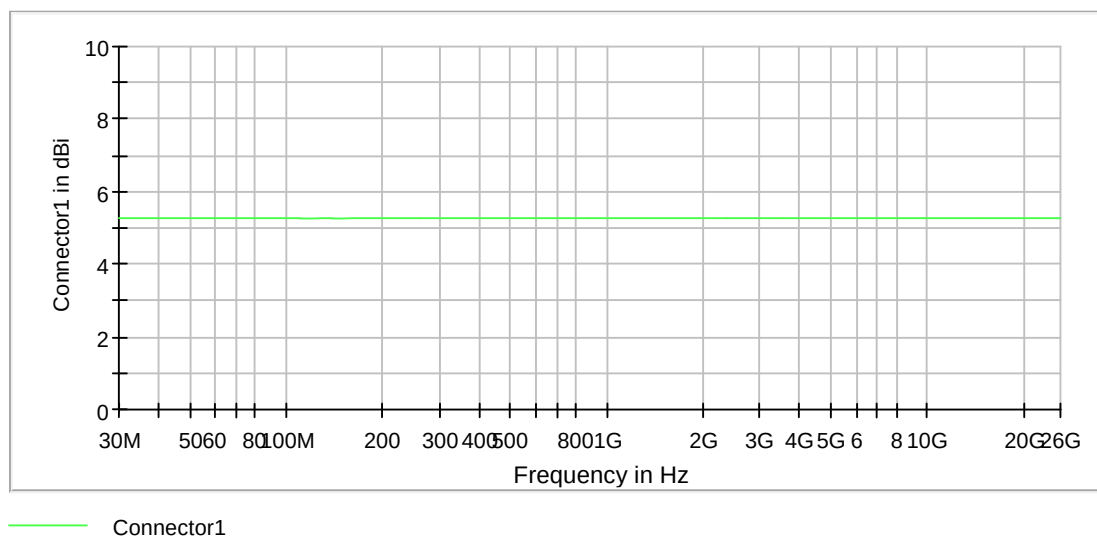
Measurement Settings

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

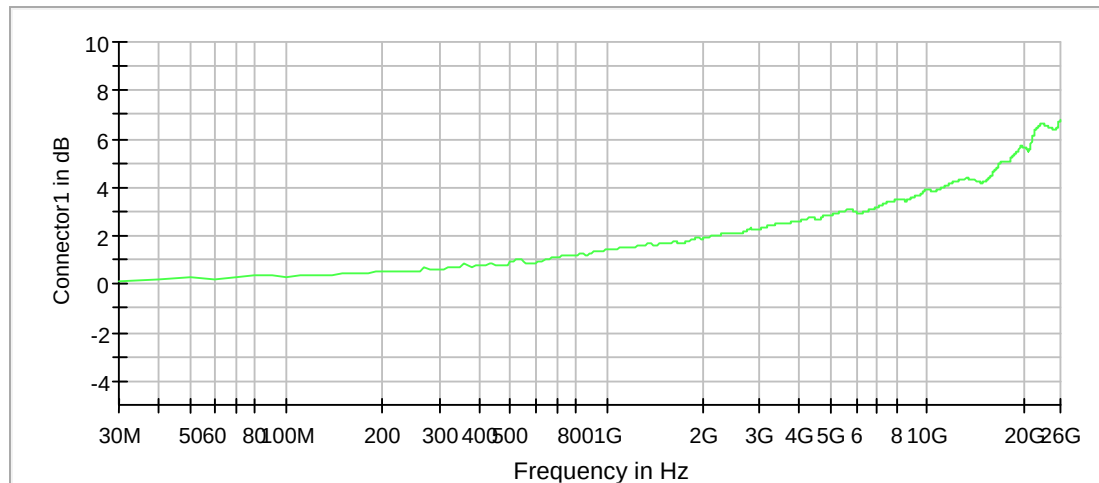
Spurious



Gain

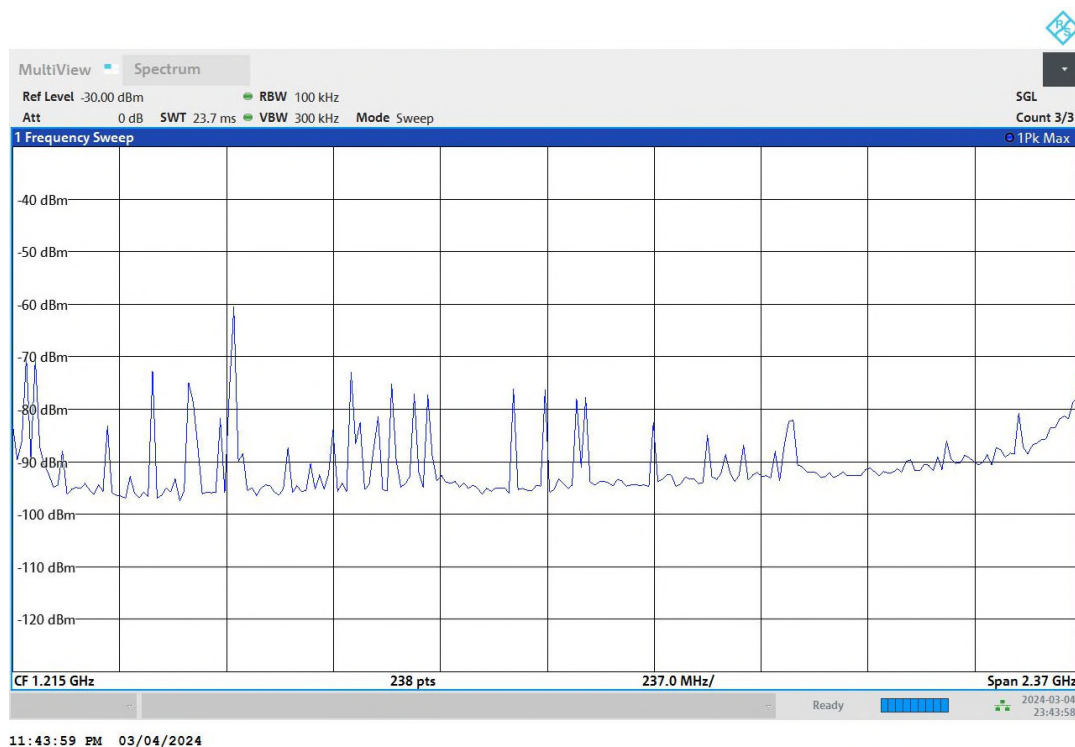


Attenuation

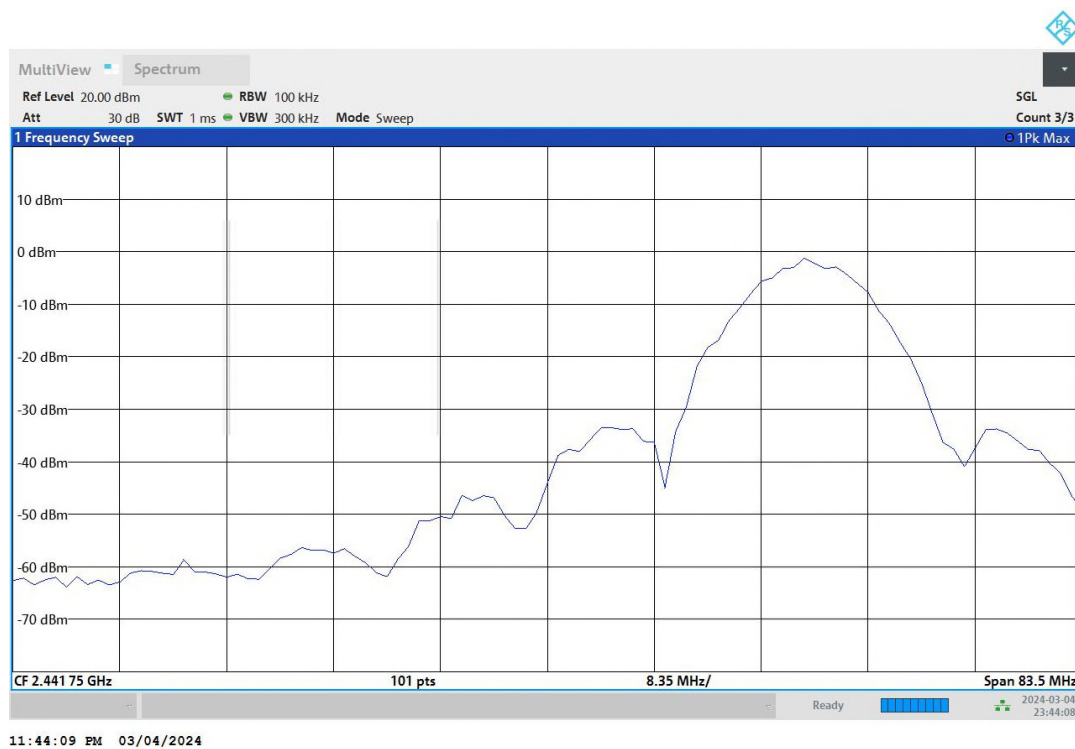


Connector1

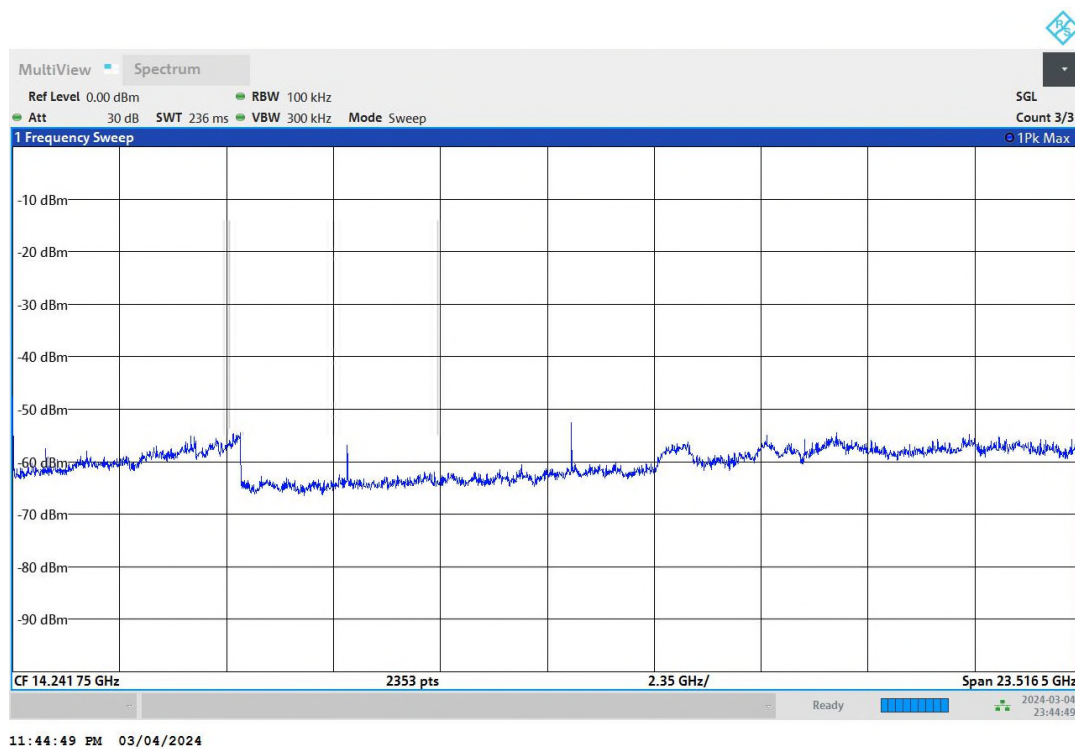
Spurious Connector 1_0



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	-30.000 dBm	-30.000 dBm
Attenuation	0.000 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	0.00 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)
2406.680000	4.2

Final measurements

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

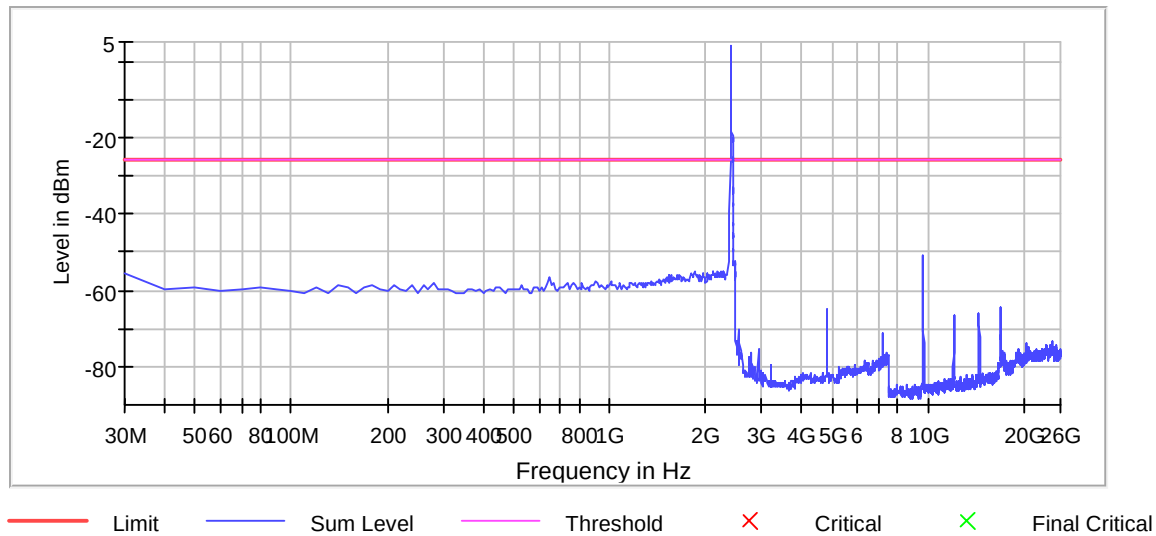
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2390.000000	-26.4	0.6	-25.8
2380.000000	-39.4	13.6	-25.8
2370.000000	-46.7	20.9	-25.8
9642.434524	-50.6	24.8	-25.8
2360.000000	-52.2	26.4	-25.8
2230.000000	-55.0	29.2	-25.8
2260.000000	-55.1	29.3	-25.8
1850.000000	-55.1	29.3	-25.8
2280.000000	-55.2	29.4	-25.8
2190.000000	-55.2	29.4	-25.8
2110.000000	-55.3	29.5	-25.8
2200.000000	-55.3	29.5	-25.8
1800.000000	-55.4	29.6	-25.8
2350.000000	-55.4	29.6	-25.8
2340.000000	-55.5	29.7	-25.8

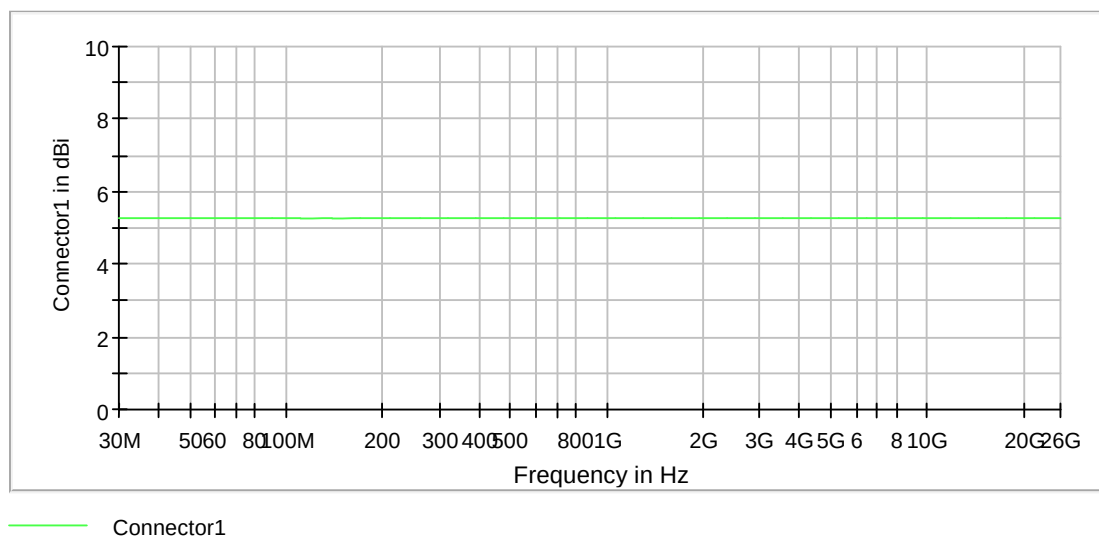
Measurement Settings

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

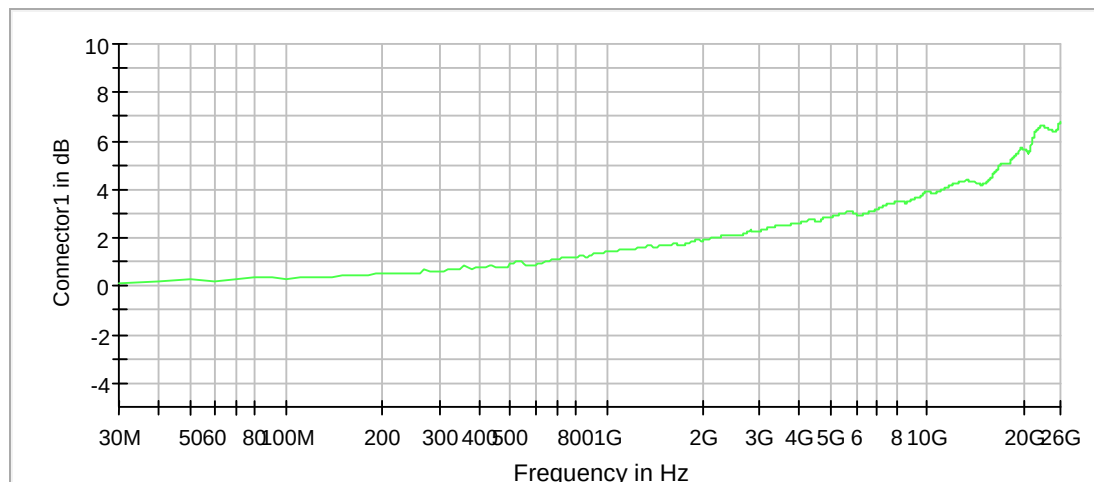
Spurious



Gain

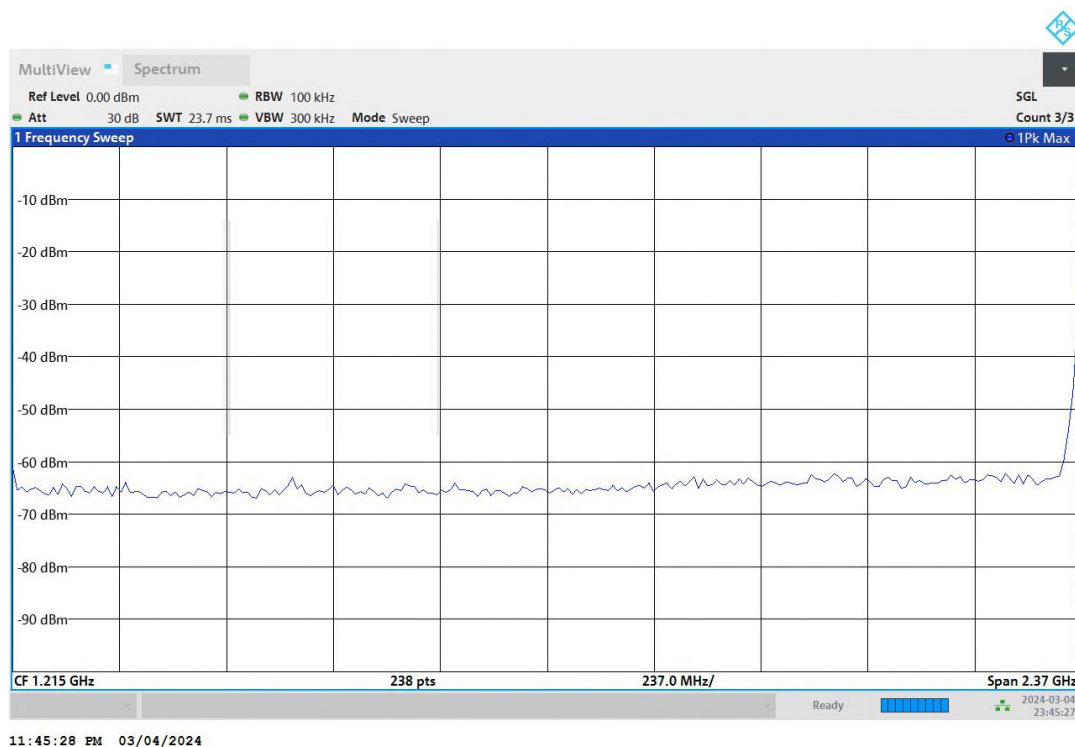


Attenuation

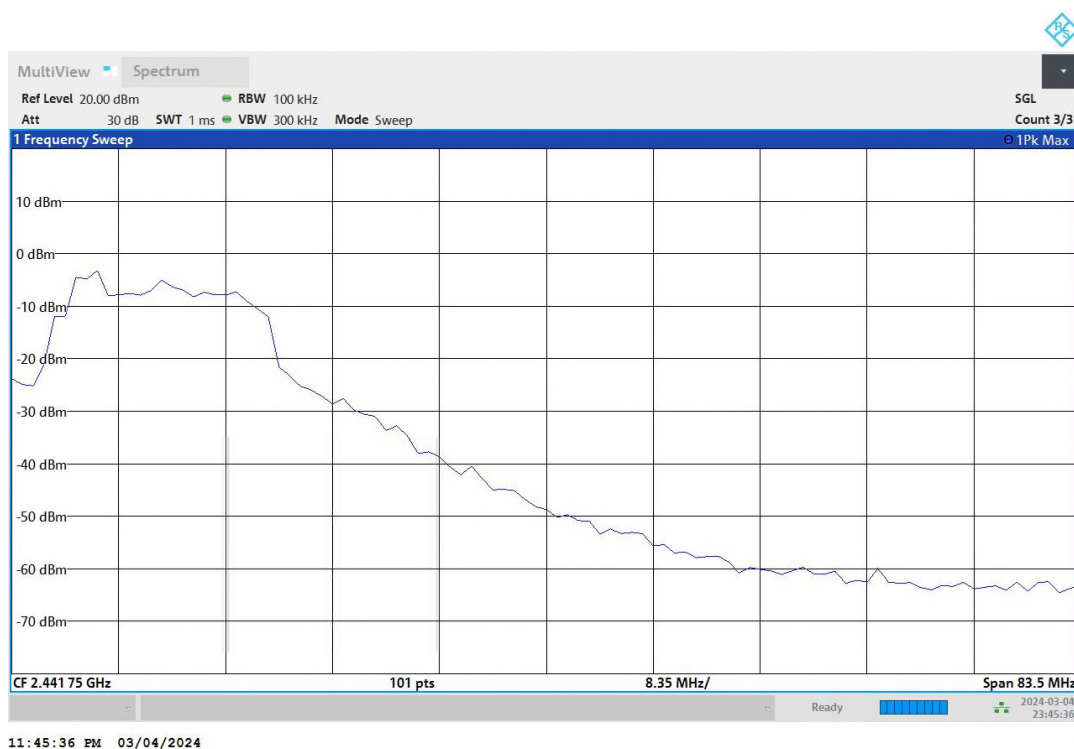


Connector1

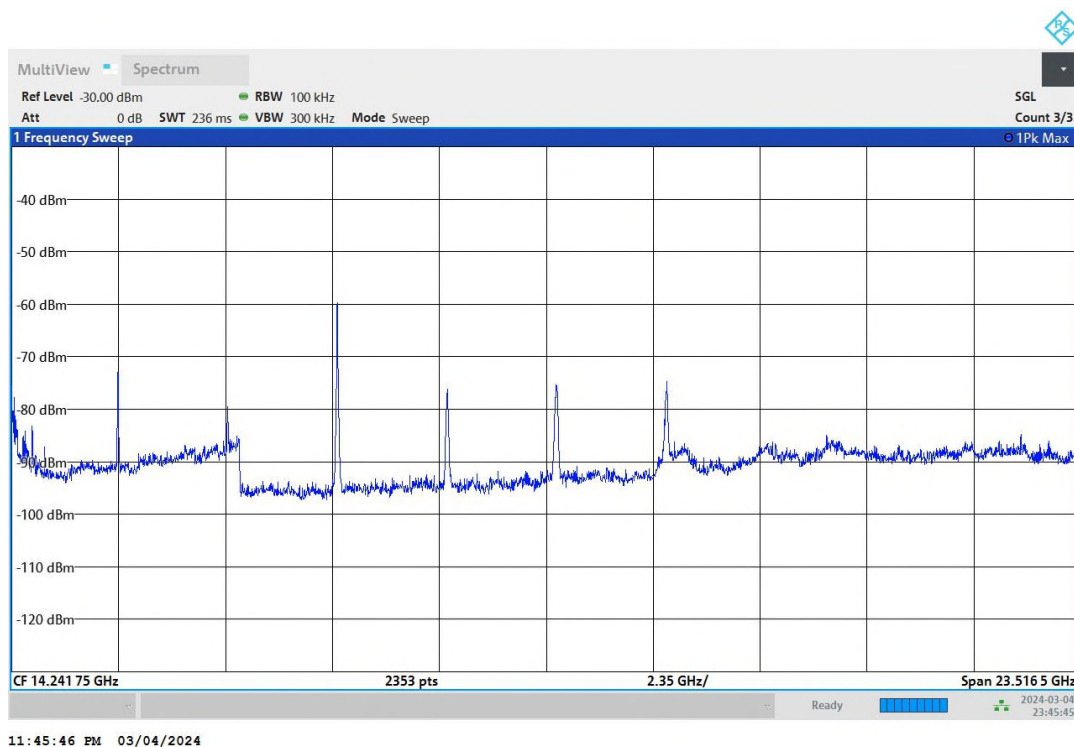
Spurious Connector 1_0



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	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	6 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

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)
2441.750000	3.2

Final measurements

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

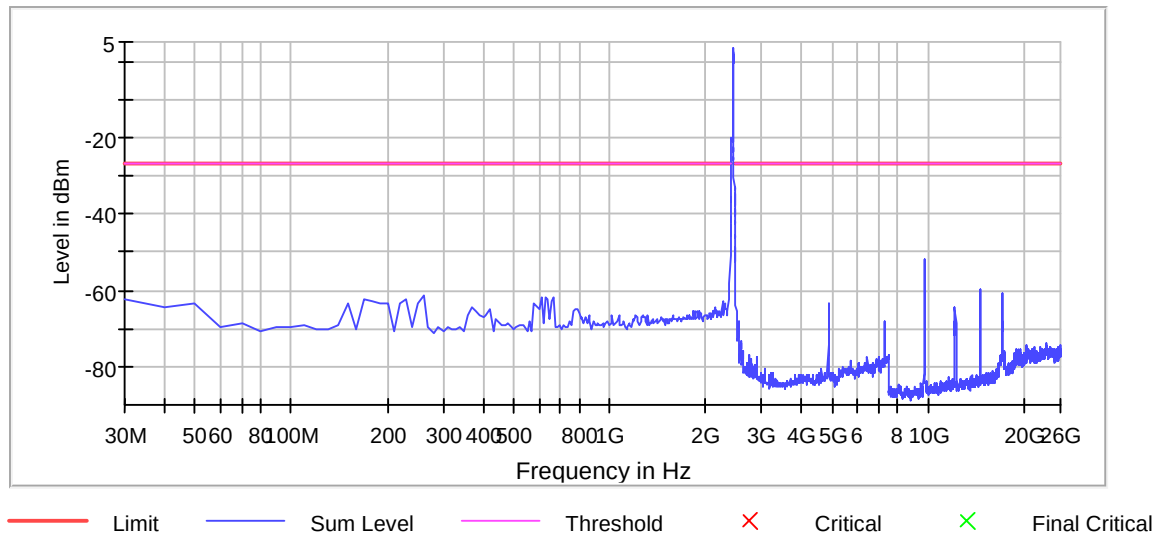
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2390.000000	-51.1	24.3	-26.8
9742.419643	-51.9	25.1	-26.8
2380.000000	-58.0	31.2	-26.8
14611.694940	-59.7	32.9	-26.8
9752.418155	-60.6	33.8	-26.8
17061.330357	-60.6	33.9	-26.8
17051.331845	-61.1	34.3	-26.8
2370.000000	-61.3	34.5	-26.8
14621.693452	-61.4	34.6	-26.8
260.000000	-61.5	34.8	-26.8
670.000000	-61.8	35.0	-26.8
610.000000	-61.9	35.1	-26.8
17071.328869	-62.0	35.2	-26.8
630.000000	-62.0	35.2	-26.8
2360.000000	-62.2	35.4	-26.8

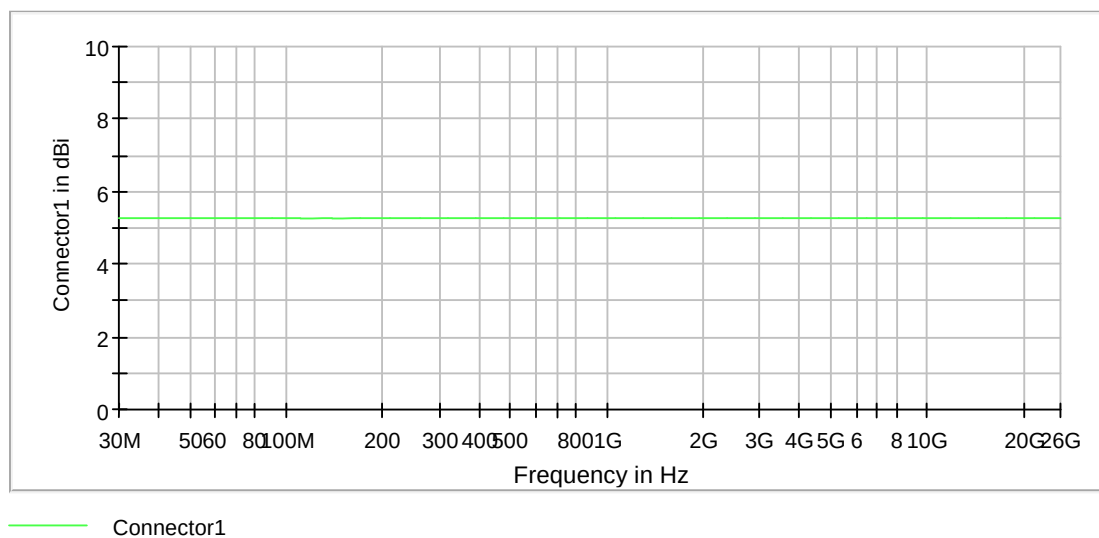
Measurement Settings

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

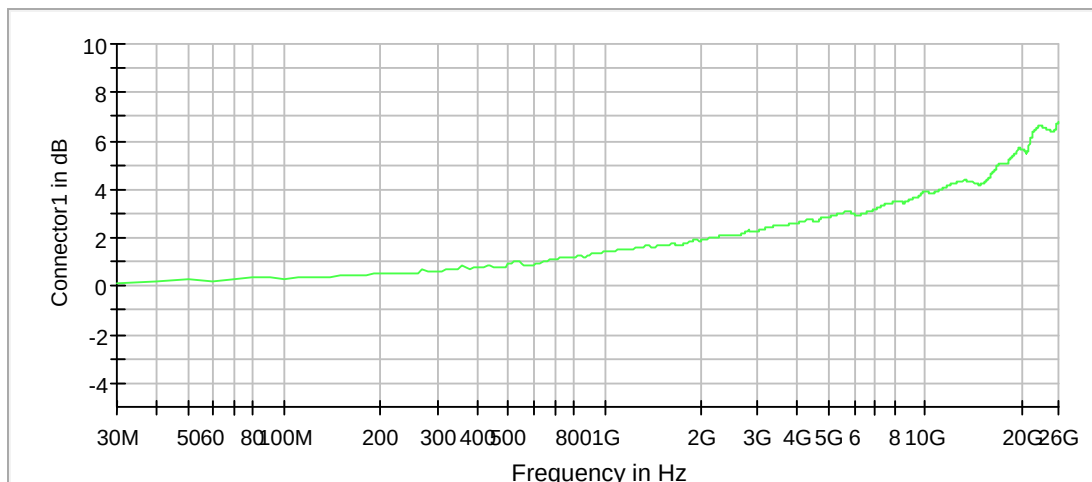
Spurious



Gain

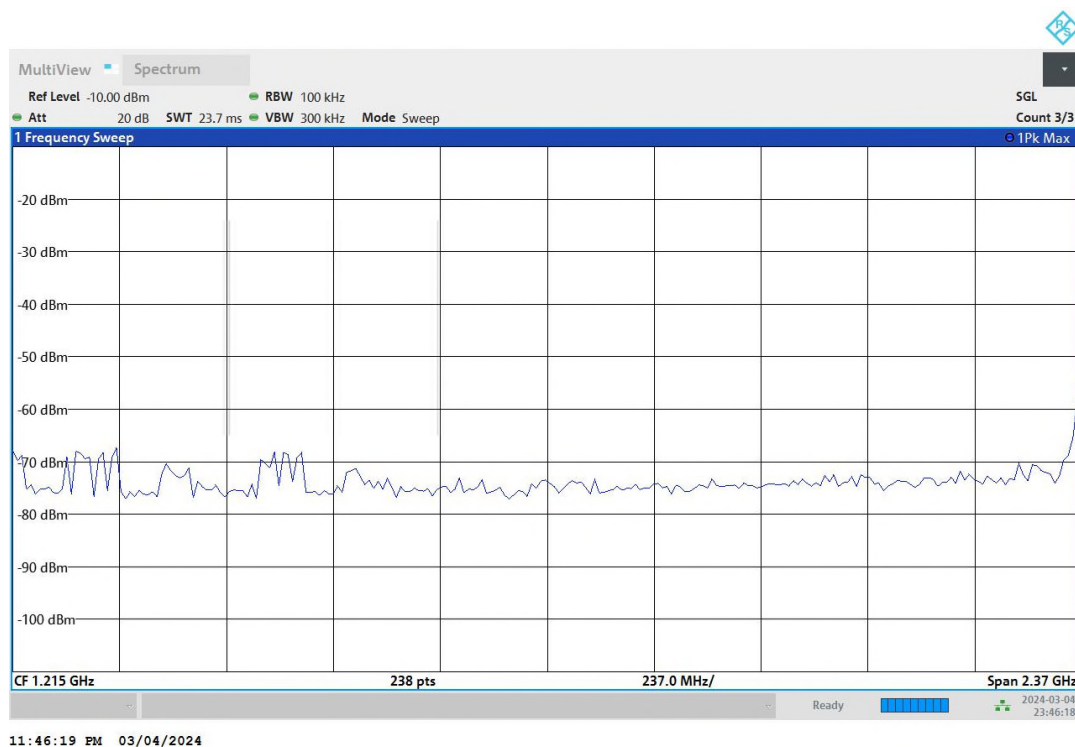


Attenuation

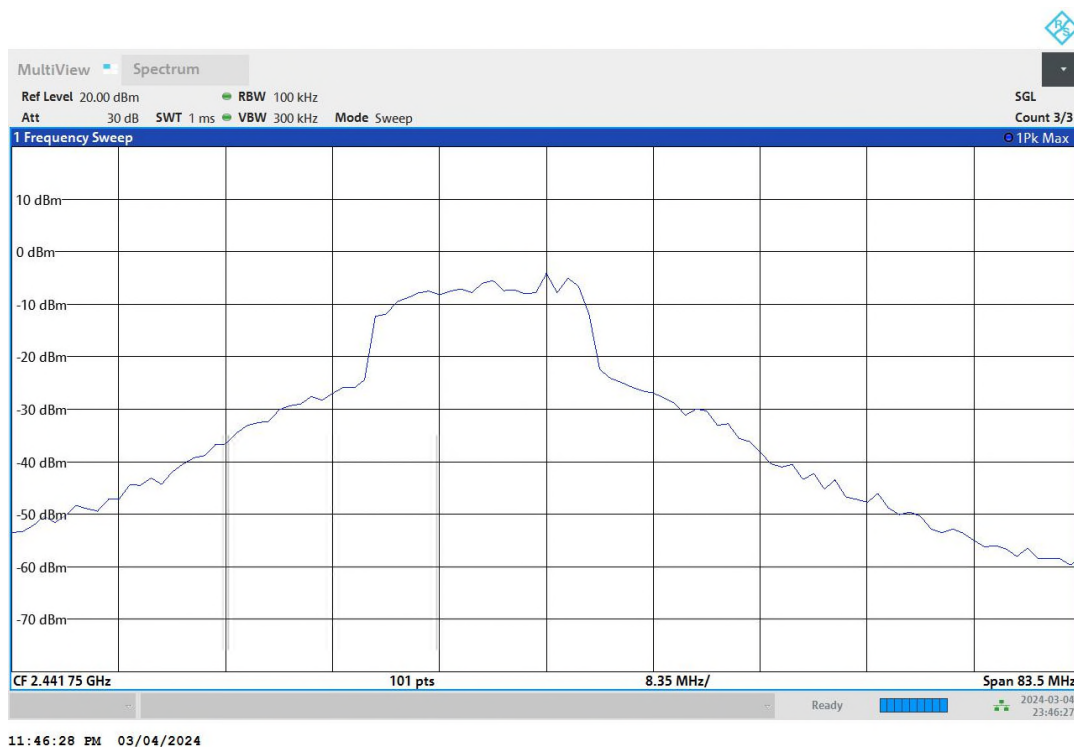


Connector1

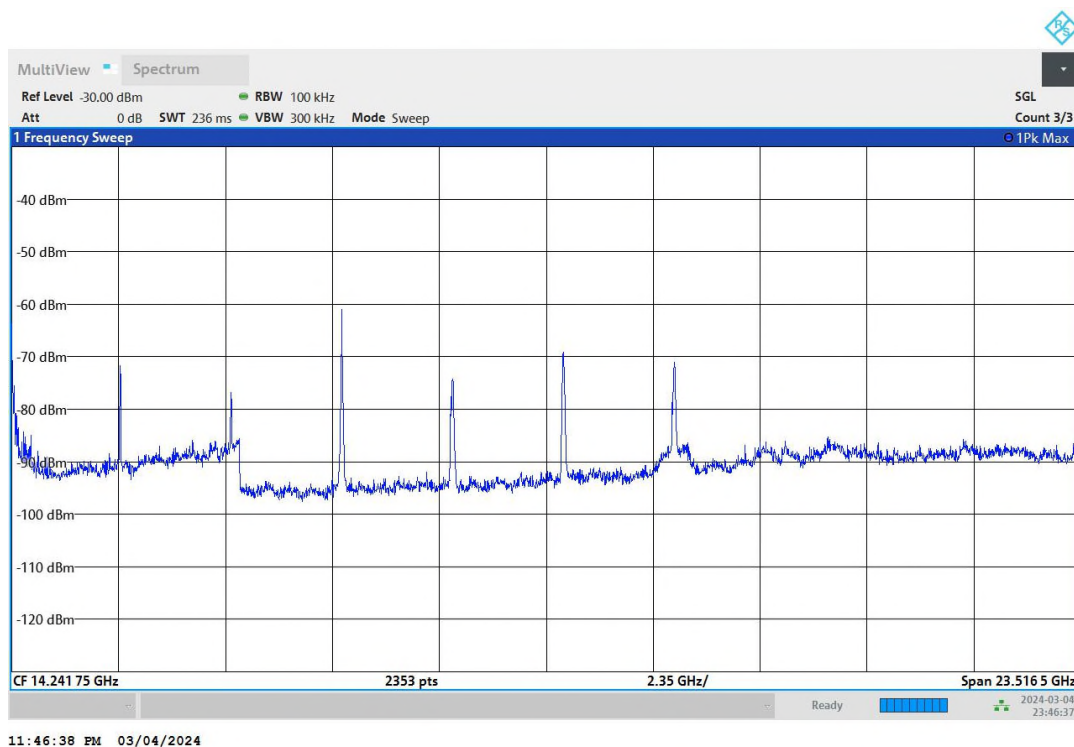
Spurious Connector 1_0



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	4 / 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	2.2

Final measurements

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

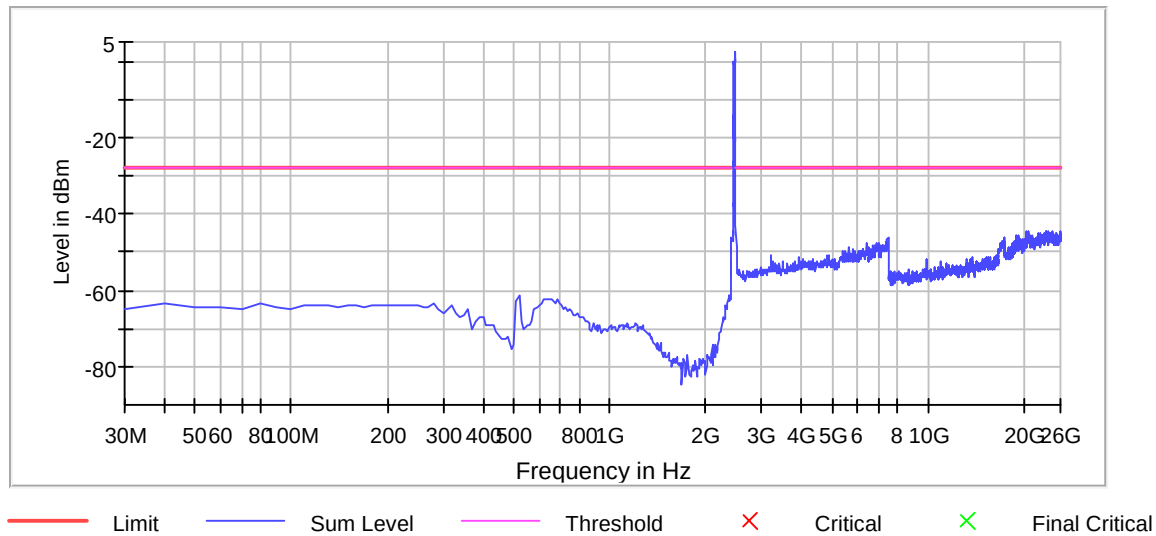
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.498512	-43.1	15.3	-27.8
24630.203869	-44.4	16.6	-27.8
23490.373512	-44.4	16.6	-27.8
23630.352679	-44.5	16.7	-27.8
23620.354167	-44.5	16.7	-27.8
23440.380952	-44.5	16.7	-27.8
20420.830357	-44.5	16.7	-27.8
23510.370536	-44.6	16.8	-27.8
23450.379464	-44.7	16.9	-27.8
23610.355655	-44.7	16.9	-27.8
20590.805060	-44.7	17.0	-27.8
25930.010417	-44.8	17.0	-27.8
23990.299107	-44.8	17.0	-27.8
23980.300595	-44.8	17.0	-27.8
24090.284226	-44.9	17.1	-27.8

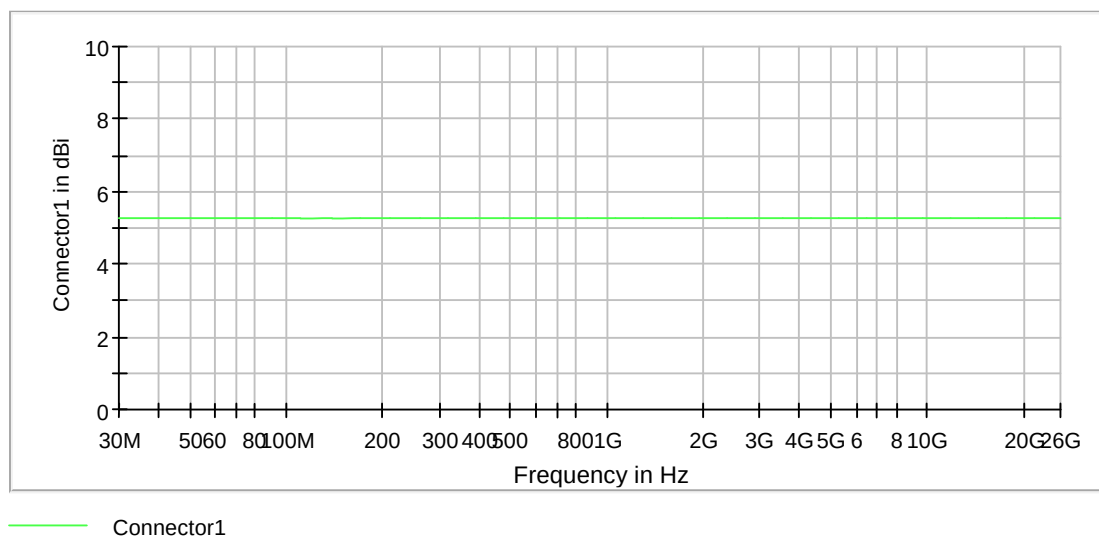
Measurement Settings

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

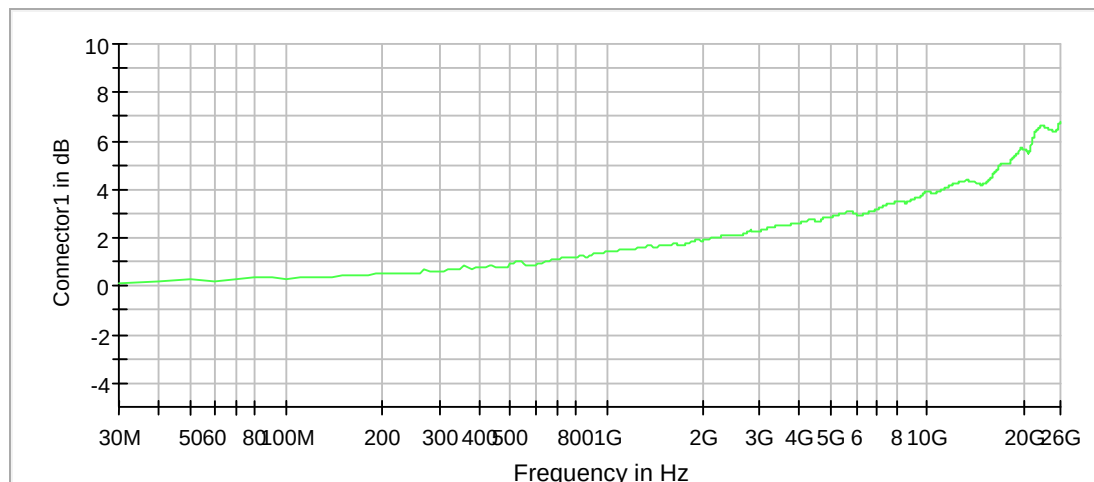
Spurious



Gain

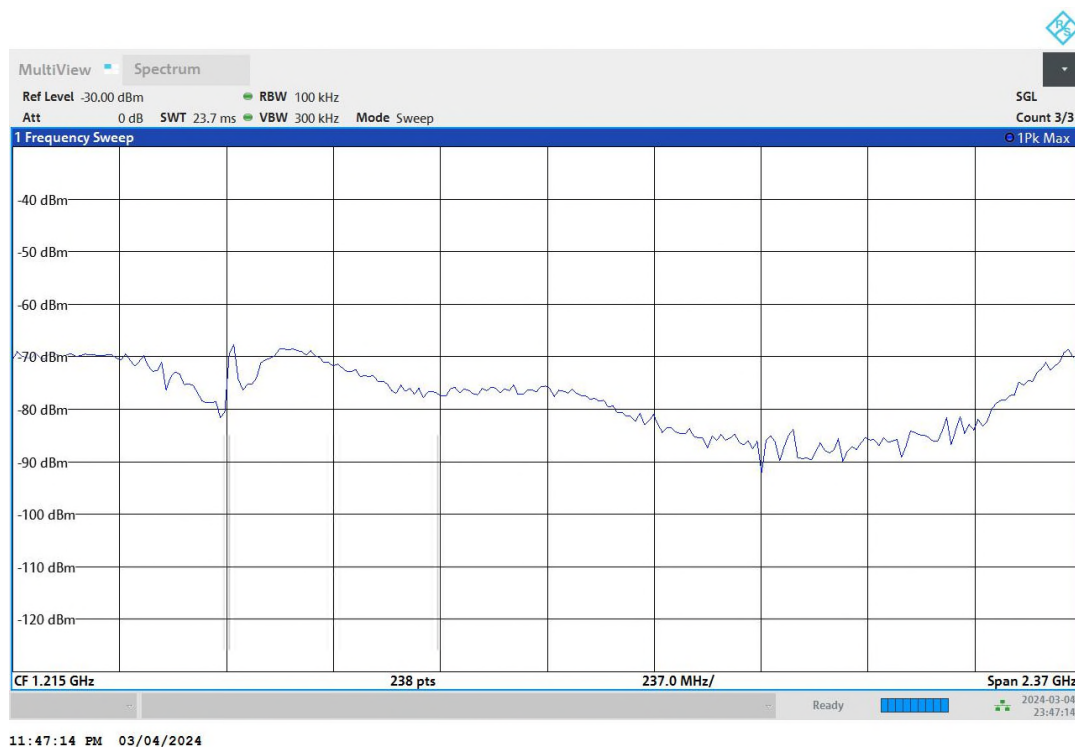


Attenuation



Connector1

Spurious Connector 1_0

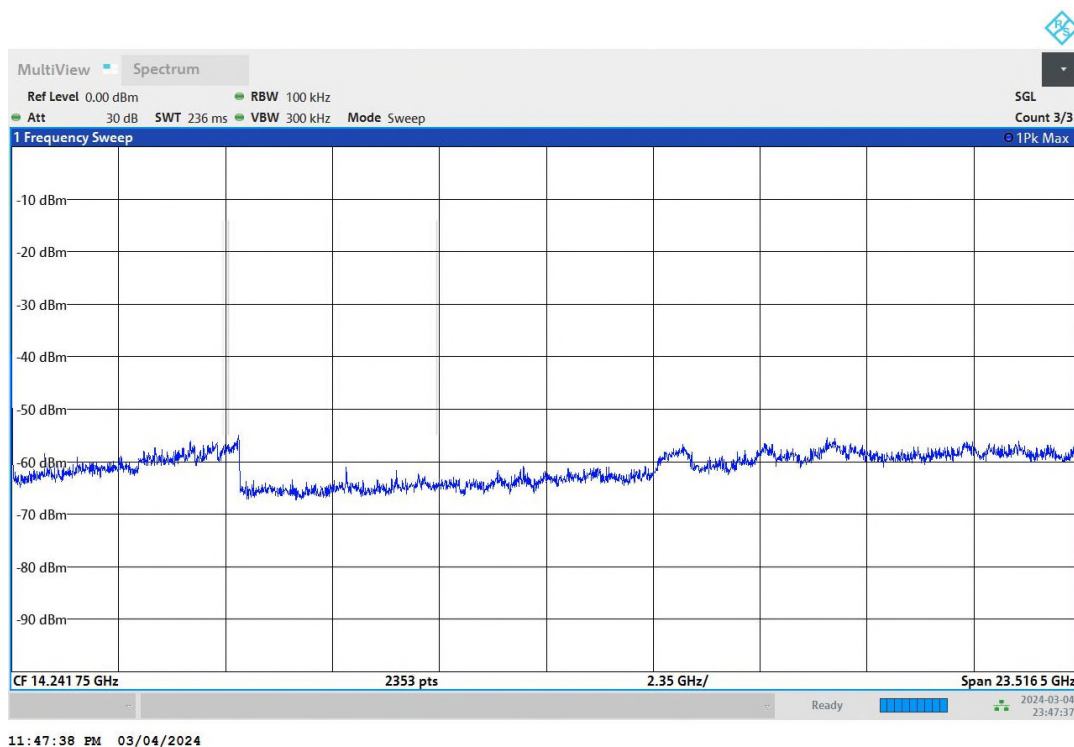


11:47:14 PM 03/04/2024

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	-30.000 dBm	-30.000 dBm
Attenuation	0.000 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	19 / 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)
2411.690000	1.6

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.200000	-17.6	-28.8	-28.4	0.4	PASS

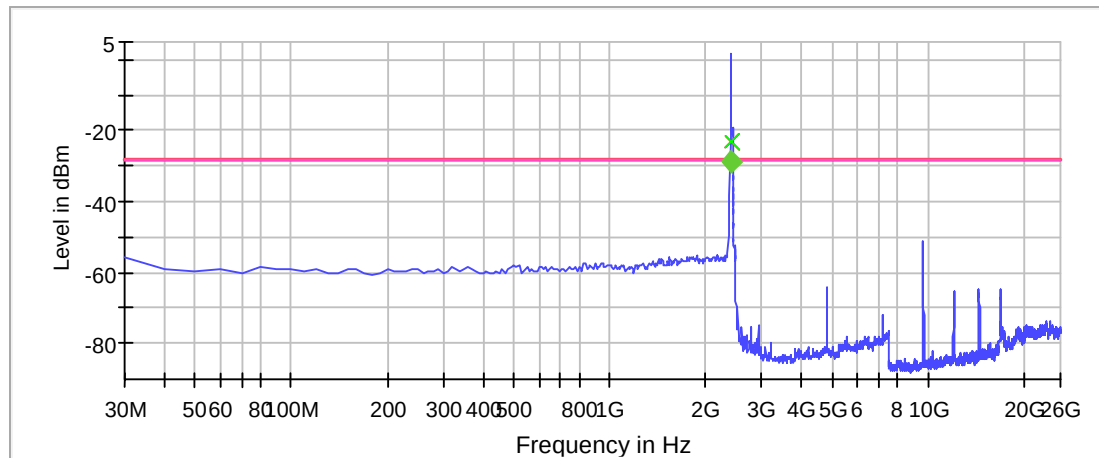
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2390.000000	-23.1	-5.3	-28.4
2380.000000	-38.1	9.6	-28.4
2370.000000	-45.6	17.2	-28.4
2360.000000	-49.5	21.1	-28.4
9642.434524	-51.4	23.0	-28.4
2350.000000	-54.6	26.2	-28.4
1870.000000	-55.1	26.7	-28.4
2170.000000	-55.2	26.8	-28.4
2190.000000	-55.2	26.8	-28.4
2320.000000	-55.3	26.9	-28.4
2340.000000	-55.4	27.0	-28.4
2330.000000	-55.5	27.0	-28.4
2100.000000	-55.5	27.0	-28.4
1750.000000	-55.5	27.1	-28.4
2030.000000	-55.5	27.1	-28.4

Measurement Settings

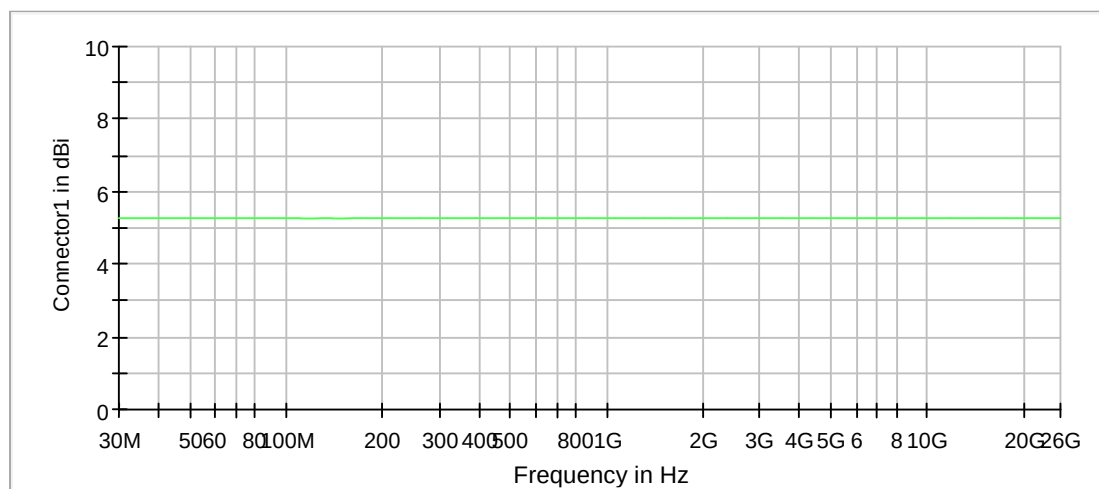
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious



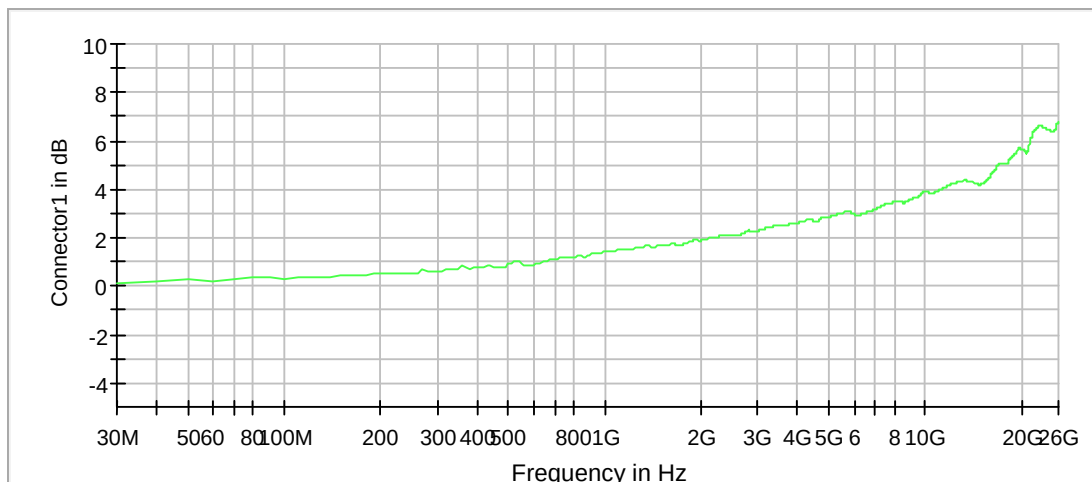
— Limit
x Final Critical
— Sum Level
◆ Sum Level Fail
— Threshold
◆ Threshold Pass
x Critical

Gain



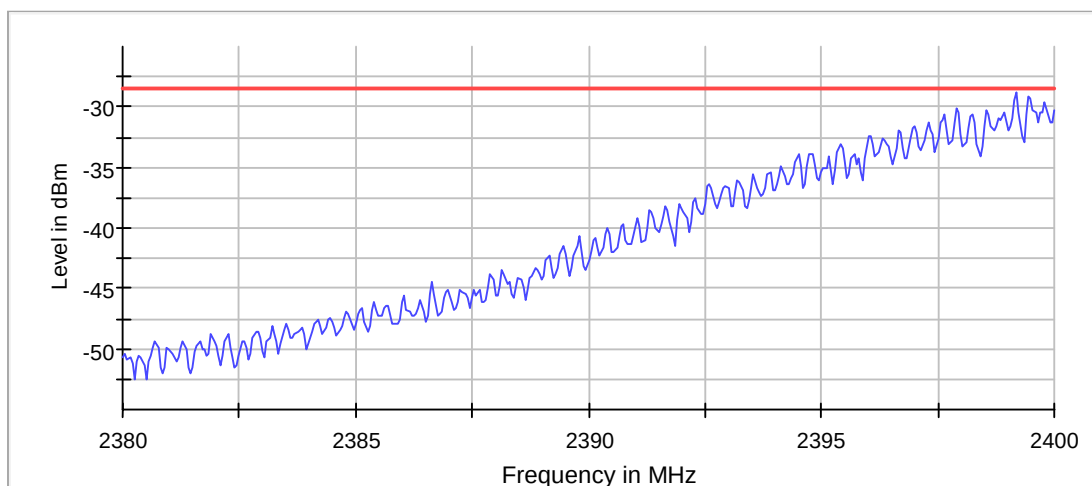
— Connector1

Attenuation



Connector1

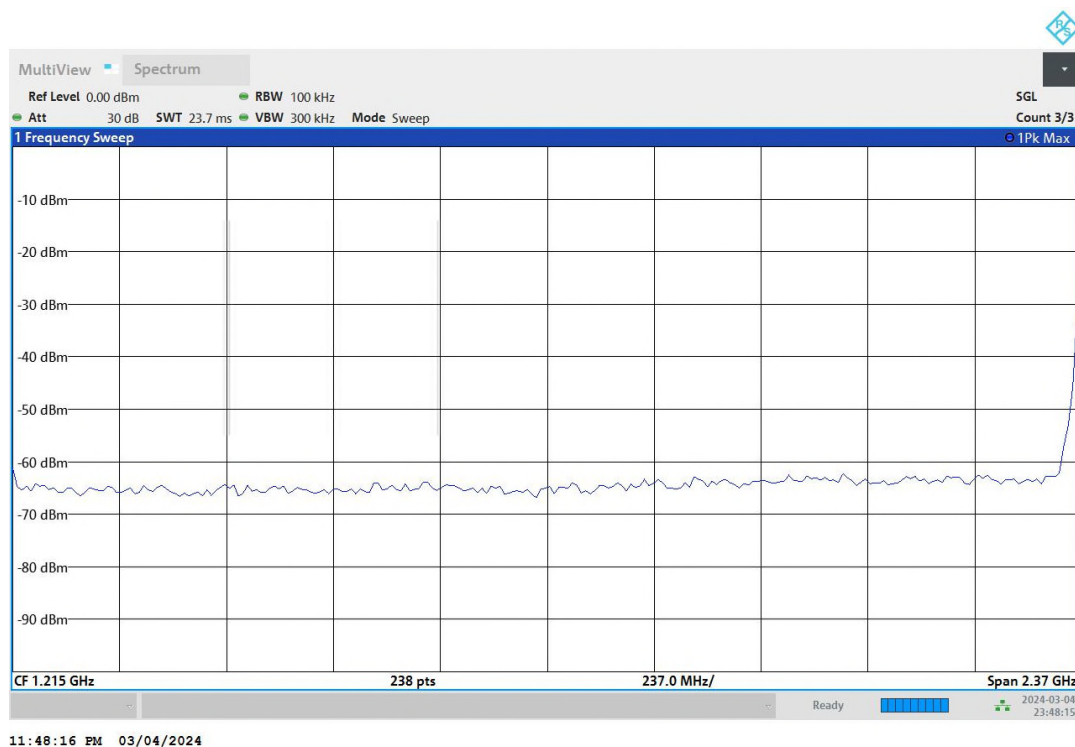
FinalMeas_2390000000Hz



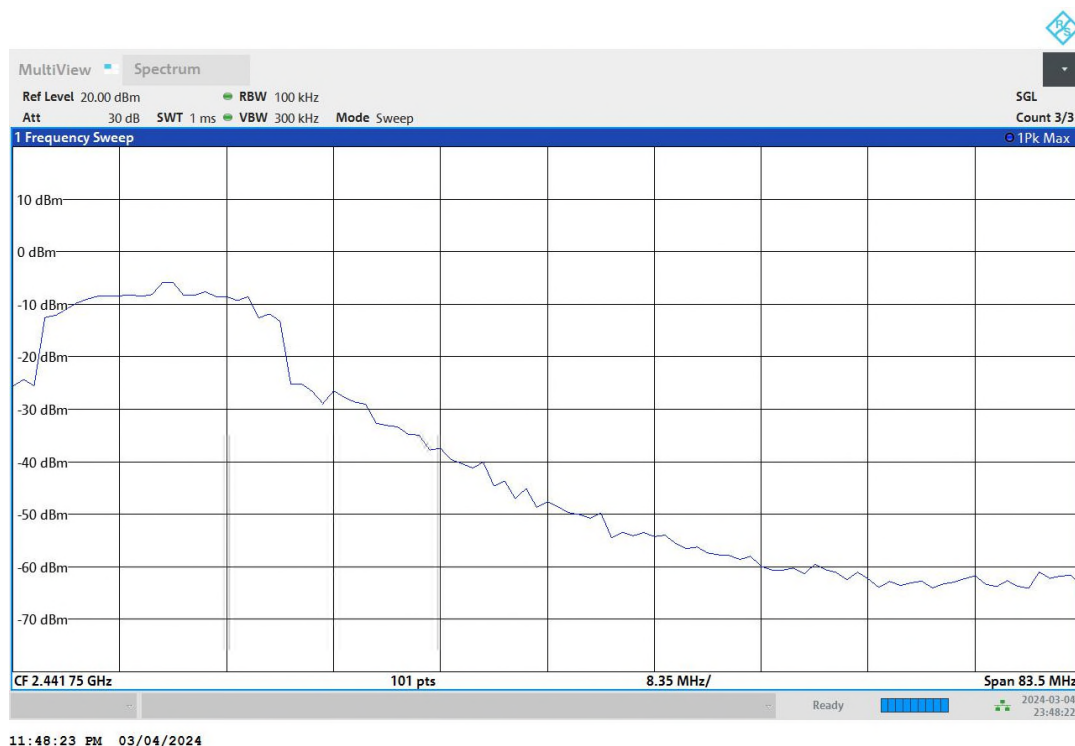
Sum Level

Limit

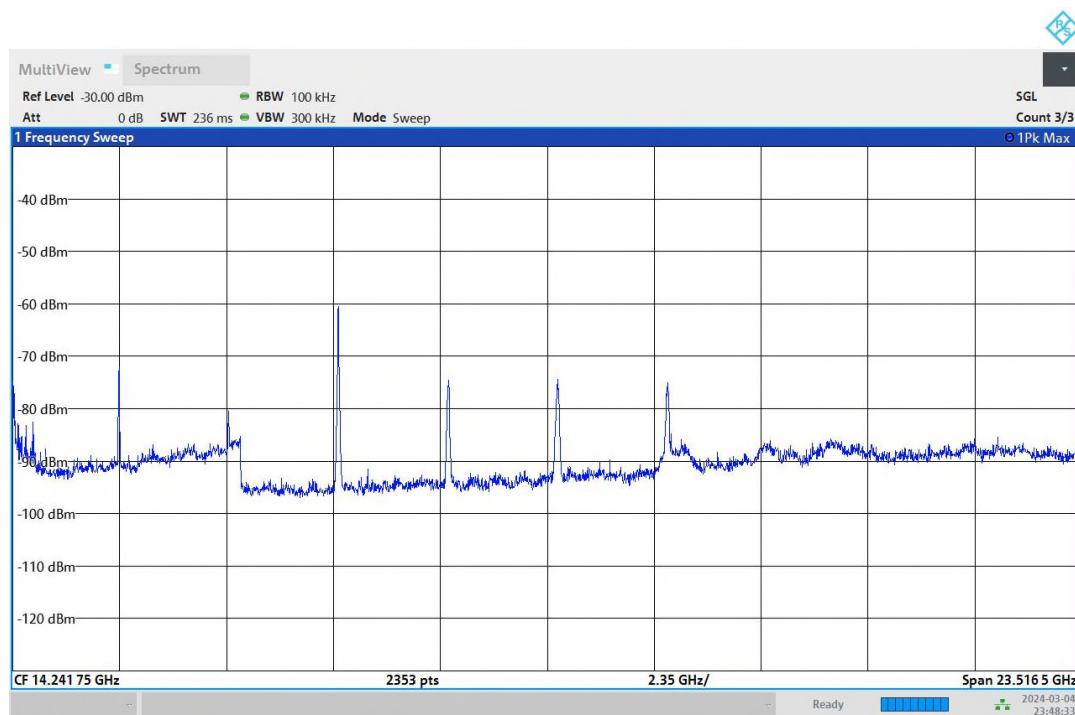
Spurious Connector 1_0



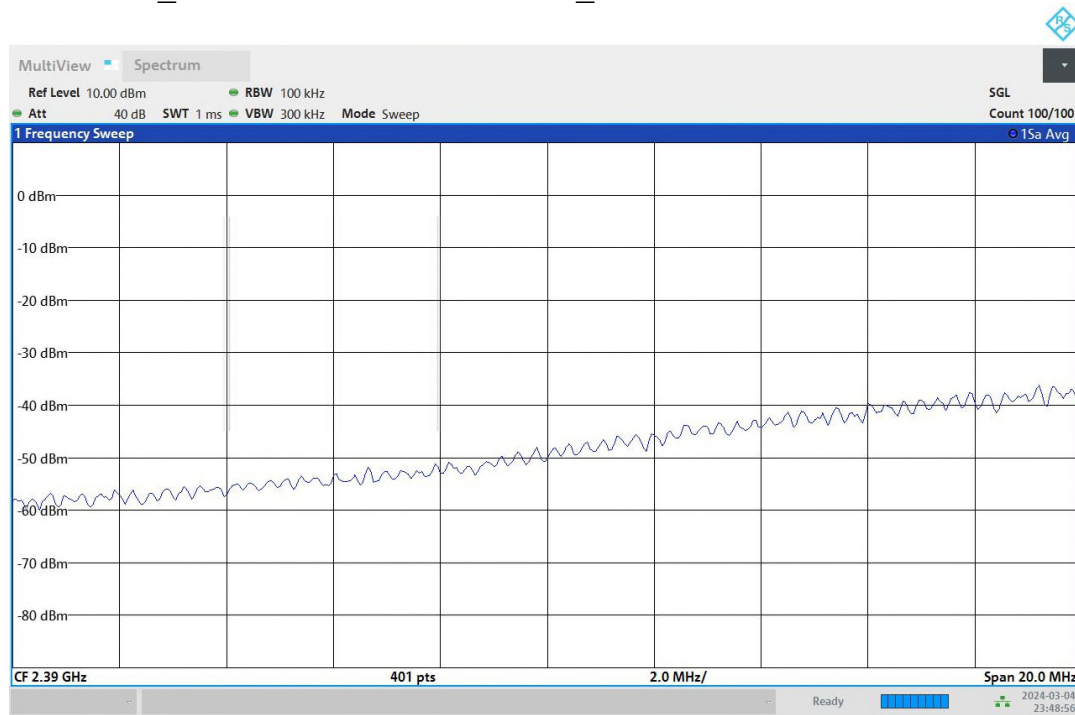
Spurious Connector 1_1



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	8 / 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)
2437.575000	1.9

Final measurements

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

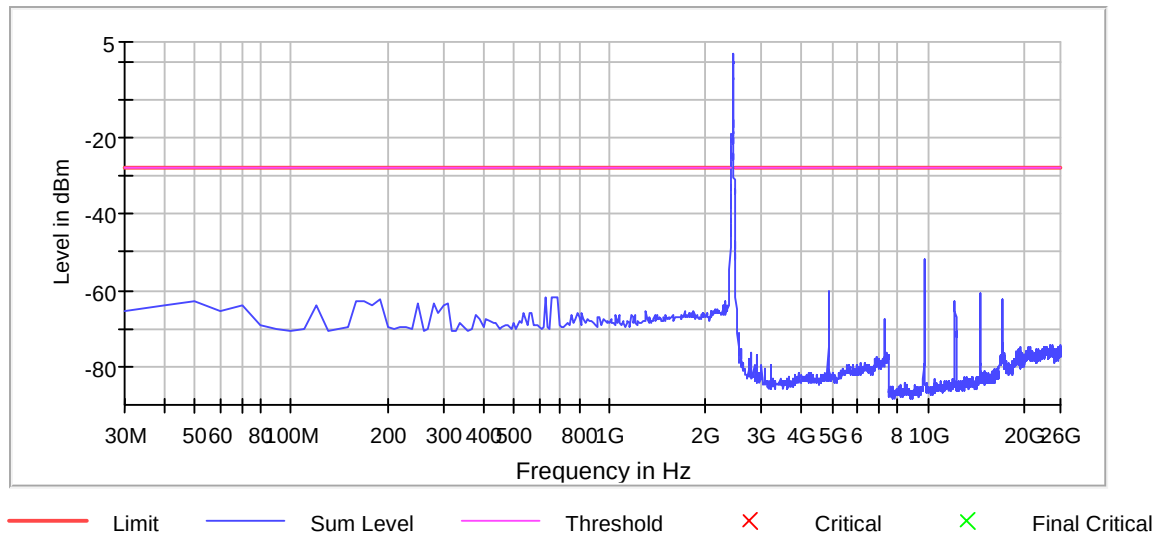
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2390.000000	-48.7	20.6	-28.1
9742.419643	-52.0	23.9	-28.1
2380.000000	-54.5	26.4	-28.1
2370.000000	-59.9	31.8	-28.1
4873.144345	-60.4	32.3	-28.1
9752.418155	-60.4	32.3	-28.1
14621.693452	-60.7	32.6	-28.1
14611.694940	-61.6	33.5	-28.1
690.000000	-61.6	33.5	-28.1
670.000000	-61.6	33.5	-28.1
2493.498512	-61.7	33.6	-28.1
630.000000	-61.7	33.6	-28.1
680.000000	-61.7	33.6	-28.1
660.000000	-61.7	33.6	-28.1
190.000000	-62.5	34.4	-28.1

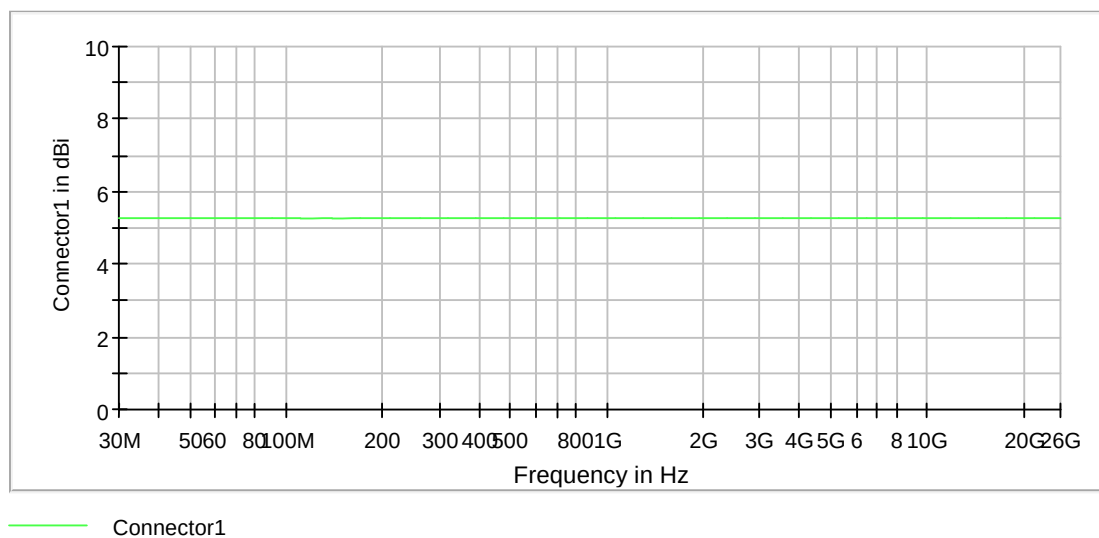
Measurement Settings

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

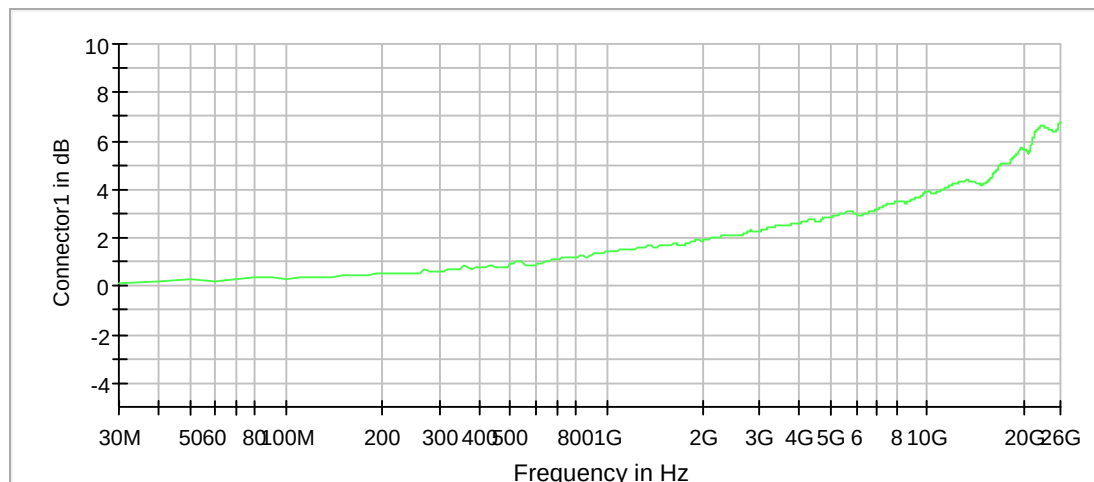
Spurious



Gain

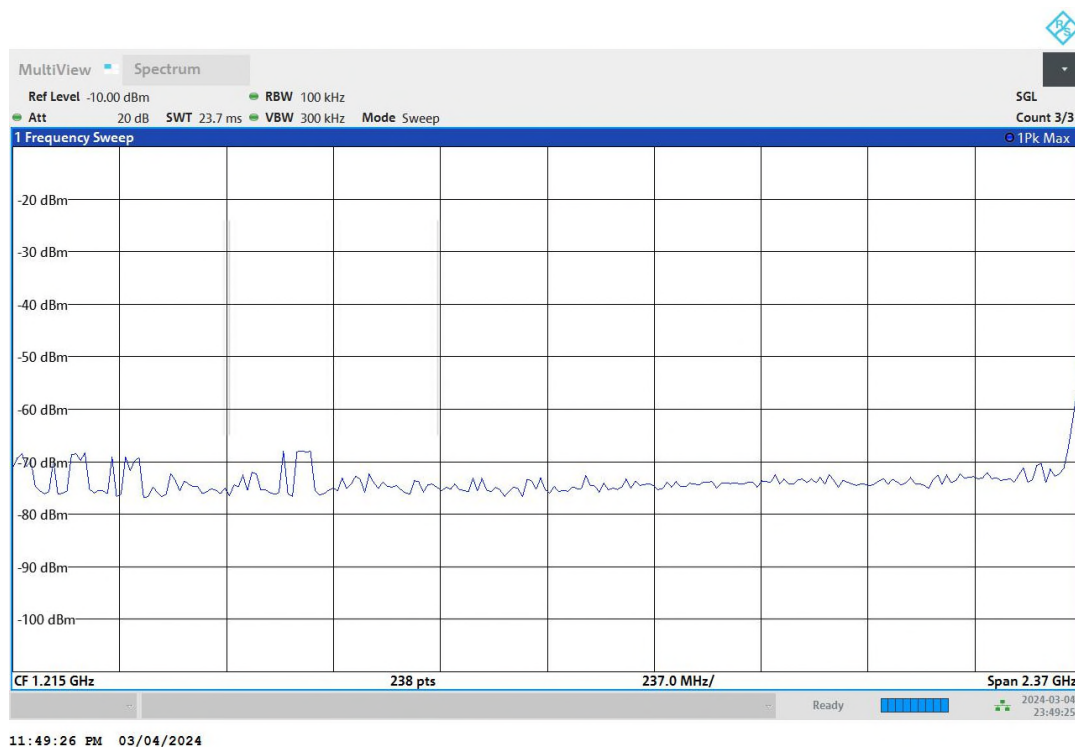


Attenuation

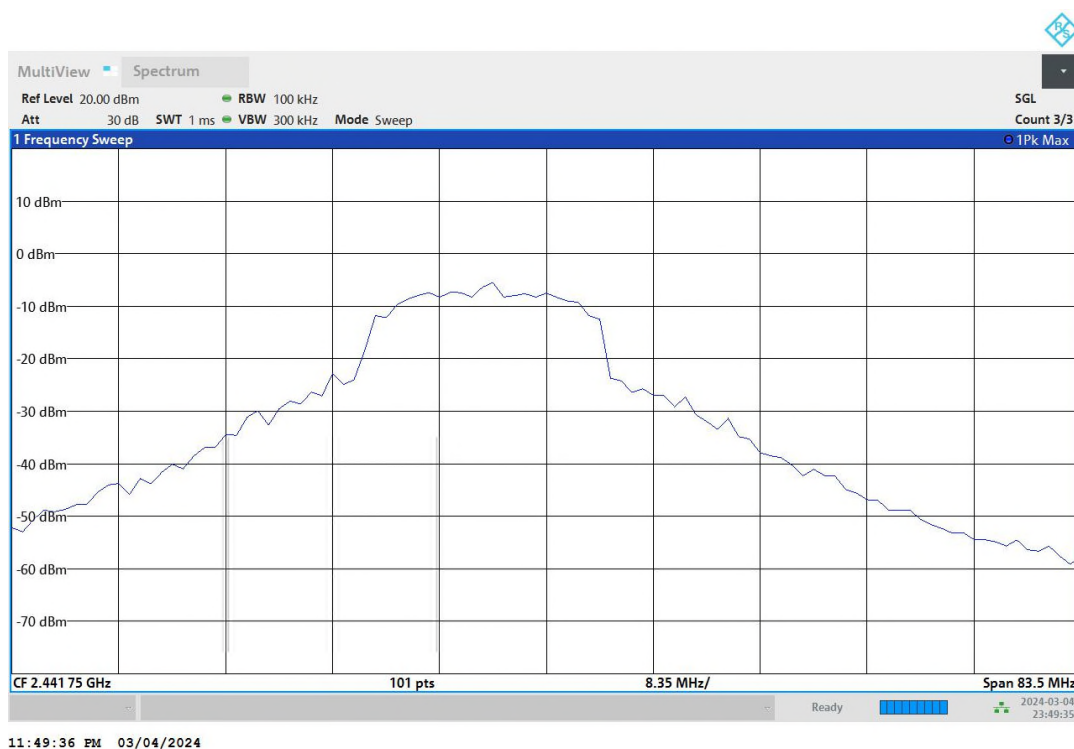


Connector1

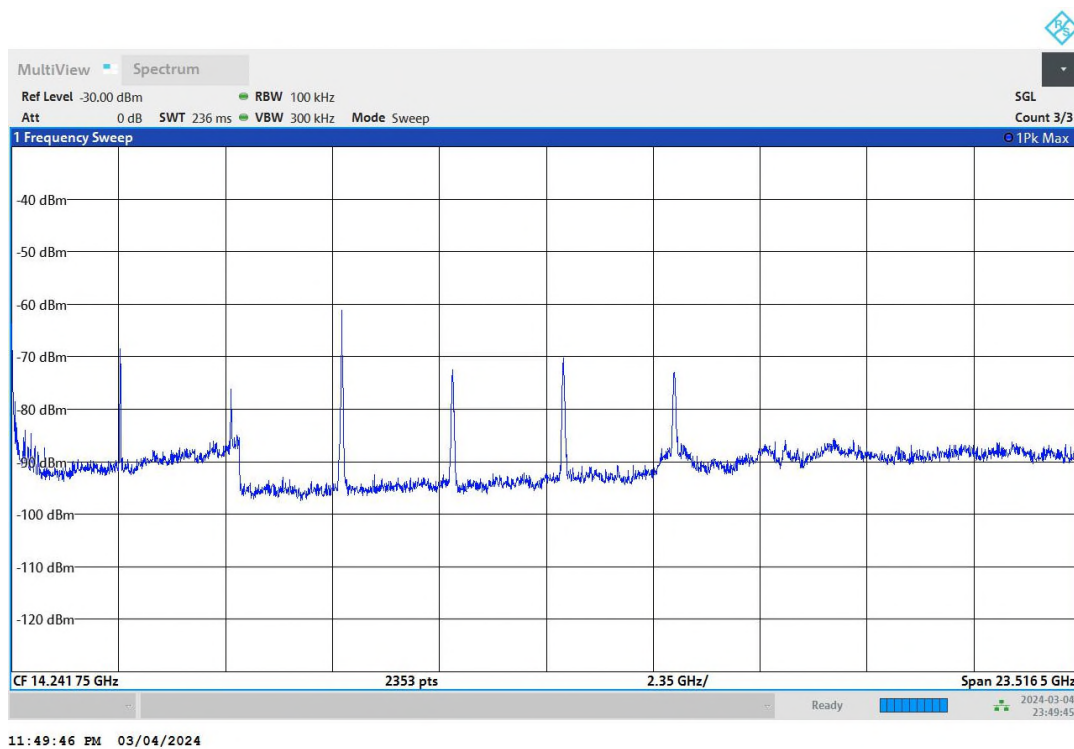
Spurious Connector 1_0



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	2.1

Final measurements

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

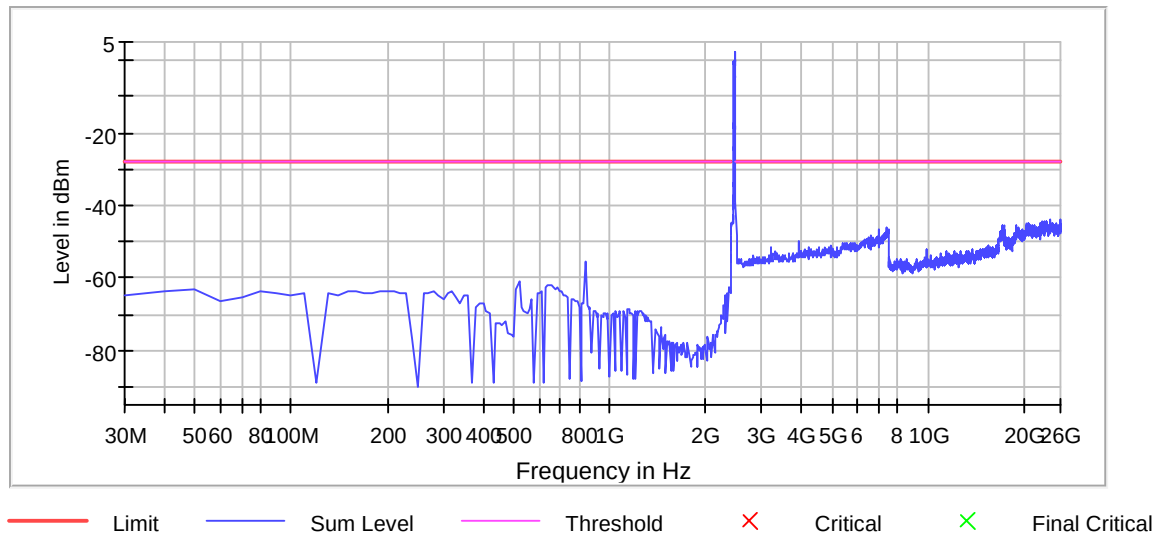
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.498512	-38.8	10.8	-27.9
24190.269345	-43.8	15.9	-27.9
25870.019345	-44.1	16.1	-27.9
22690.492560	-44.5	16.6	-27.9
23020.443452	-44.7	16.7	-27.9
23640.351190	-44.7	16.8	-27.9
23490.373512	-44.7	16.8	-27.9
25200.119048	-44.7	16.8	-27.9
26000.000000	-44.8	16.8	-27.9
23510.370536	-44.8	16.8	-27.9
20610.802083	-44.8	16.9	-27.9
22430.531250	-44.9	16.9	-27.9
23420.383929	-44.9	16.9	-27.9
24310.251488	-44.9	17.0	-27.9
24550.215774	-44.9	17.0	-27.9

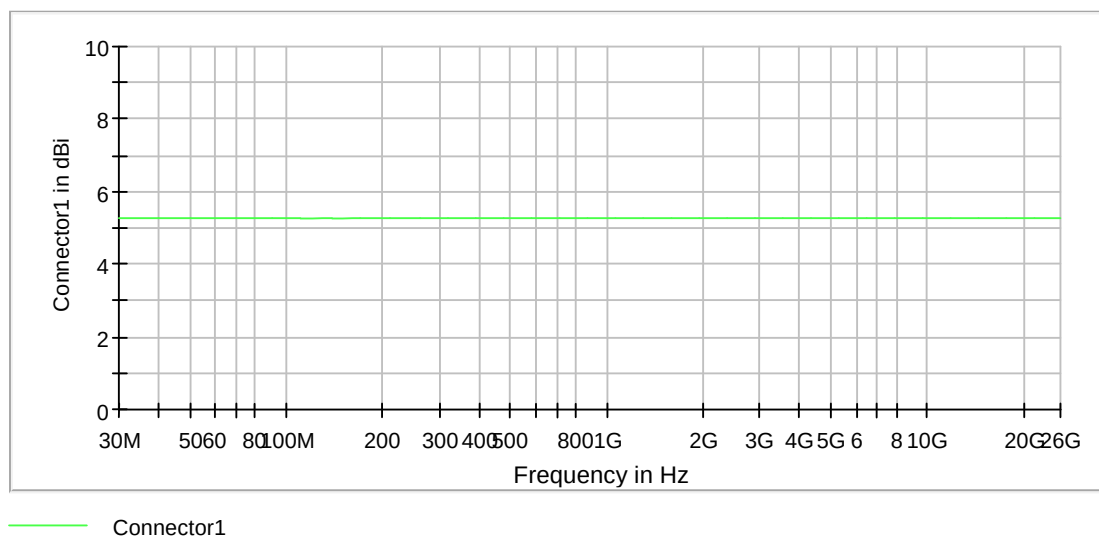
Measurement Settings

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

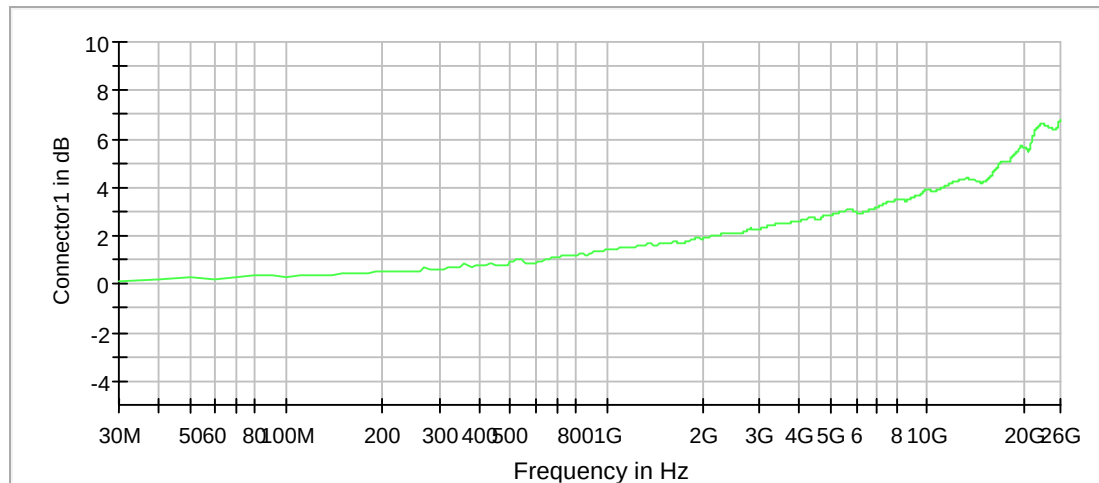
Spurious



Gain

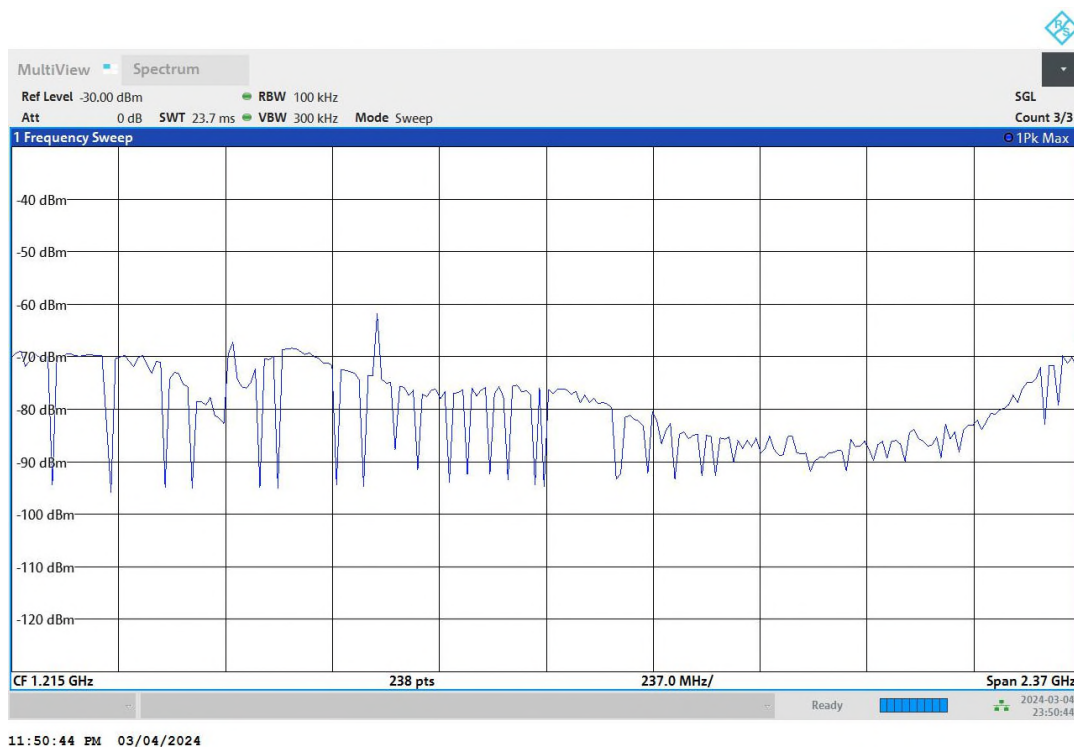


Attenuation

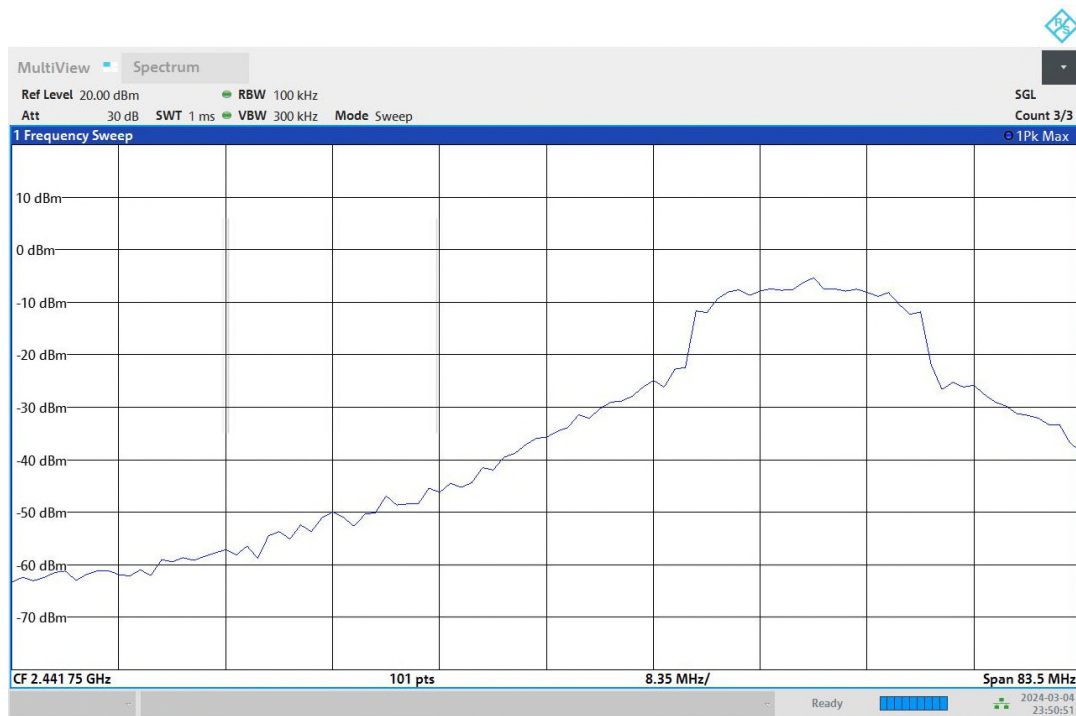


Connector1

Spurious Connector 1_0

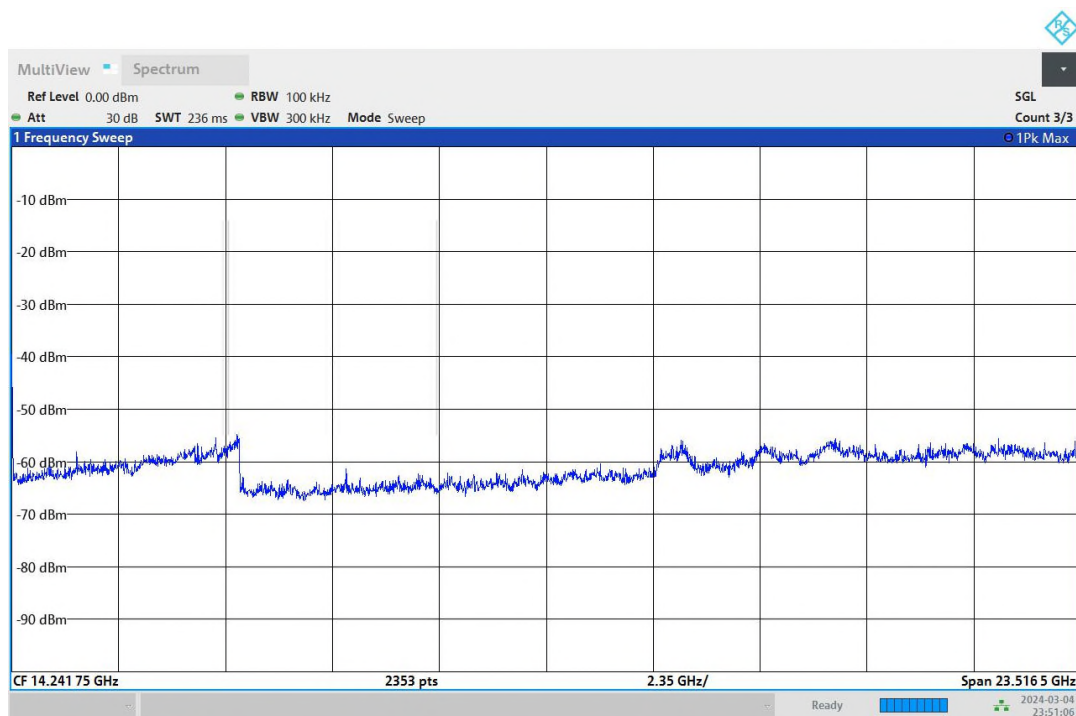


Spurious Connector 1_1



11:50:52 PM 03/04/2024

Spurious Connector 1_2



11:51:07 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	-30.000 dBm	-30.000 dBm
Attenuation	0.000 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	20 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

1.04_WLAN2.4GHz_low_ANT2

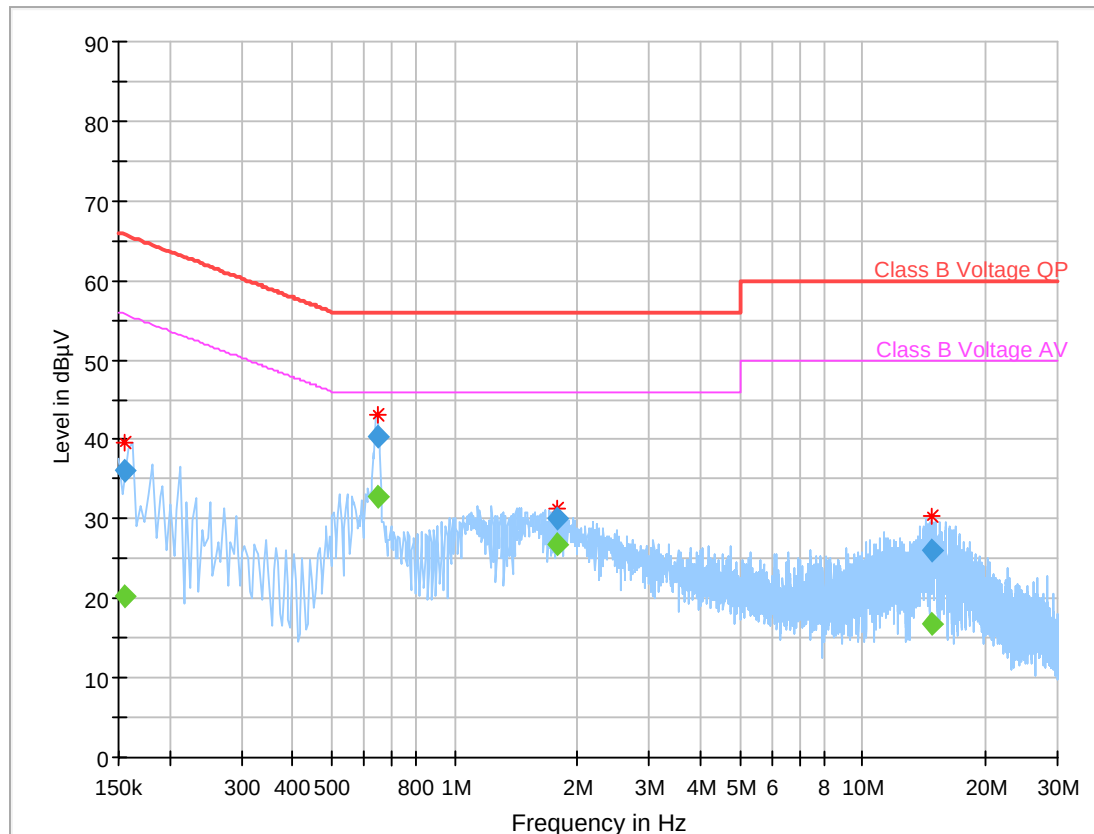
Common Information

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 / 60 Hz
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	36.13	---	65.73	29.60	1000.0	9.000	N	GND	0.1
0.155000	---	20.33	55.73	35.40	1000.0	9.000	N	GND	0.1
0.644688	40.41	---	56.00	15.59	1000.0	9.000	L1	GND	0.2
0.644688	---	32.96	46.00	13.04	1000.0	9.000	L1	GND	0.2
1.780938	---	26.92	46.00	19.08	1000.0	9.000	N	GND	0.3
1.780938	30.08	---	56.00	25.92	1000.0	9.000	N	GND	0.3
14.687188	---	16.73	50.00	33.27	1000.0	9.000	N	GND	0.8
14.687188	25.98	---	60.00	34.02	1000.0	9.000	N	GND	0.8

1.05_WLAN2.4GHz_mid_ANT2

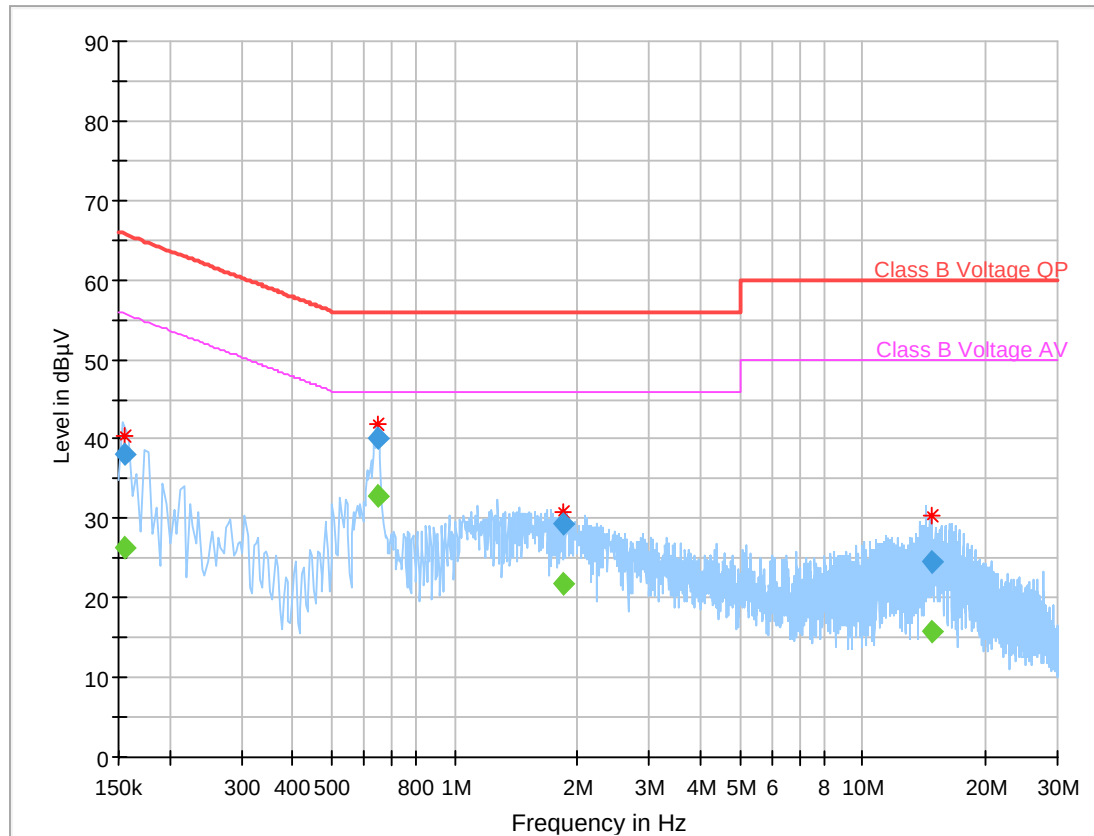
Common Information

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 / 60 Hz
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	---	26.30	55.73	29.43	1000.0	9.000	L1	GND	0.1
0.155000	38.04	---	65.73	27.69	1000.0	9.000	L1	GND	0.1
0.644688	---	32.86	46.00	13.14	1000.0	9.000	L1	GND	0.2
0.644688	40.18	---	56.00	15.82	1000.0	9.000	L1	GND	0.2
1.838906	---	21.77	46.00	24.23	1000.0	9.000	L1	GND	0.3
1.838906	29.24	---	56.00	26.76	1000.0	9.000	L1	GND	0.3
14.722344	---	15.90	50.00	34.10	1000.0	9.000	N	GND	0.8
14.722344	24.67	---	60.00	35.33	1000.0	9.000	N	GND	0.8

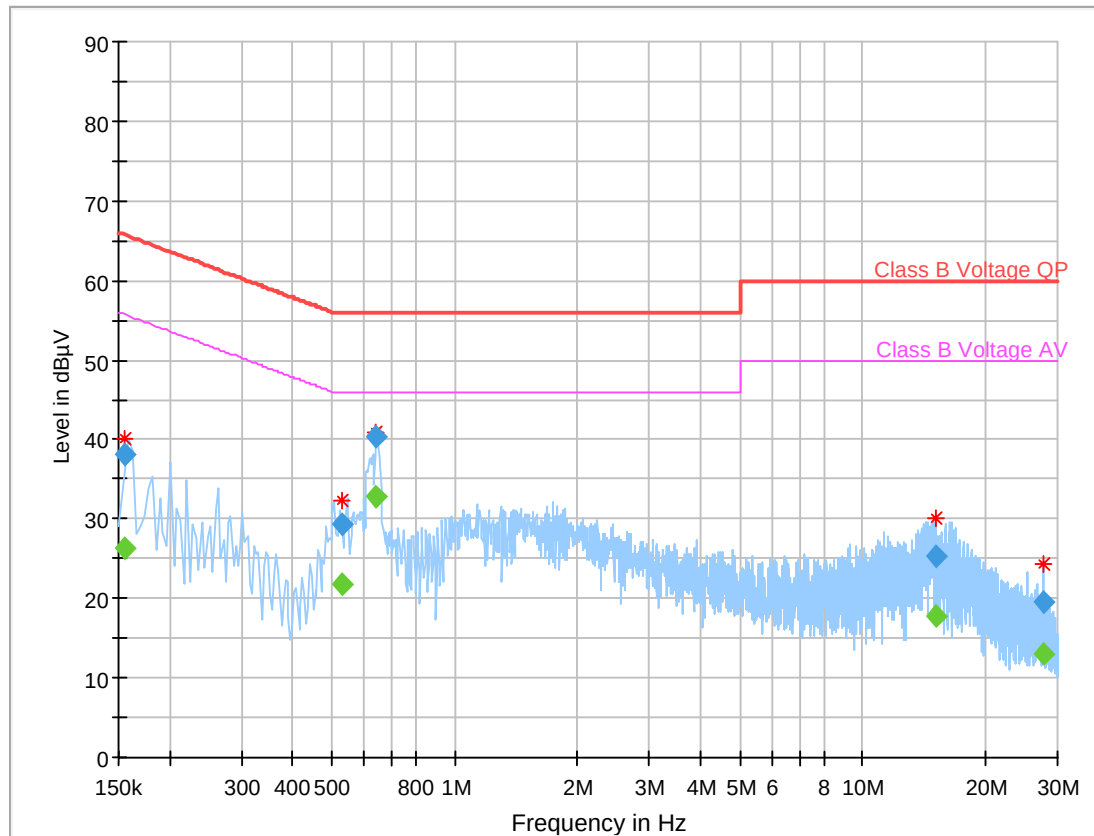
1.06_WLAN2.4GHz_high_ANT2

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:	n20-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_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	---	26.30	55.73	29.43	1000.0	9.000	L1	GND	0.1
0.155000	38.08	---	65.73	27.65	1000.0	9.000	L1	GND	0.1
0.527969	---	21.89	46.00	24.11	1000.0	9.000	L1	GND	0.1
0.527969	29.35	---	56.00	26.65	1000.0	9.000	L1	GND	0.1
0.638594	---	32.74	46.00	13.26	1000.0	9.000	L1	GND	0.2
0.638594	40.43	---	56.00	15.57	1000.0	9.000	L1	GND	0.2
15.025938	---	17.68	50.00	32.32	1000.0	9.000	N	GND	0.9
15.025938	25.32	---	60.00	34.68	1000.0	9.000	N	GND	0.9
27.807656	---	13.14	50.00	36.86	1000.0	9.000	N	GND	1.0
27.807656	19.47	---	60.00	40.53	1000.0	9.000	N	GND	1.0

2.04a_b-mode_2Mbps_ch01

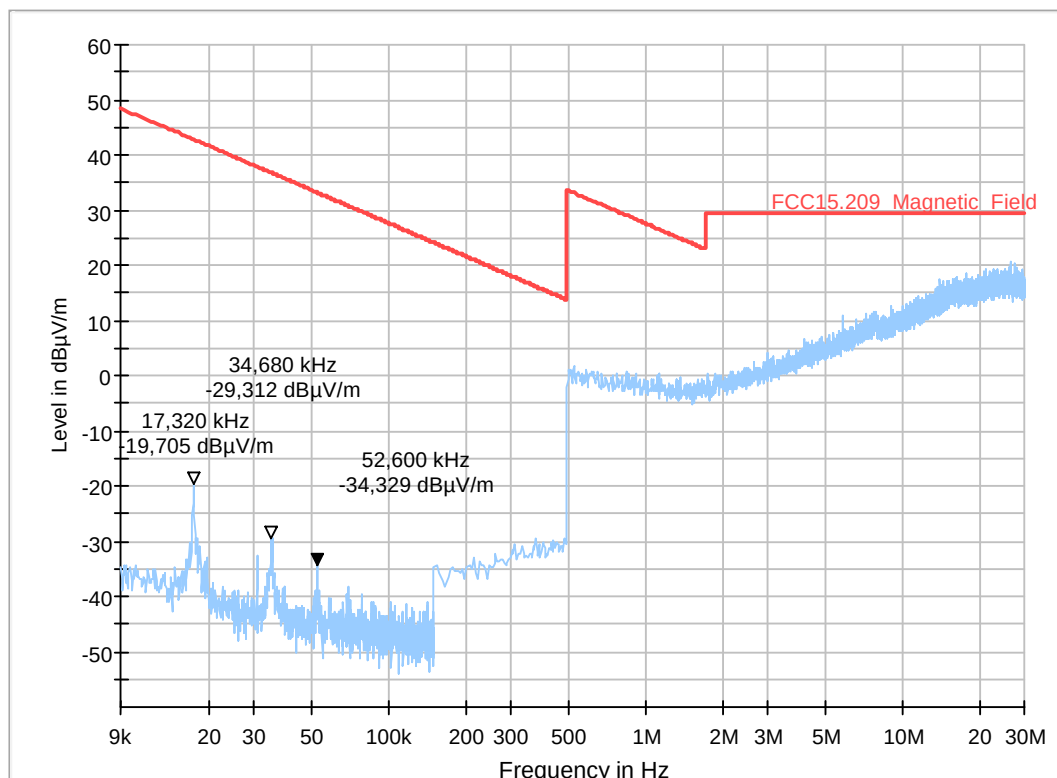
Common Information

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 V10.60.20
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:	b-mode 2Mbps; ch01; 2412MHz; antenna 2
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel low
Comment 2:	laying
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



2.04b_b-mode_2Mbps_ch01

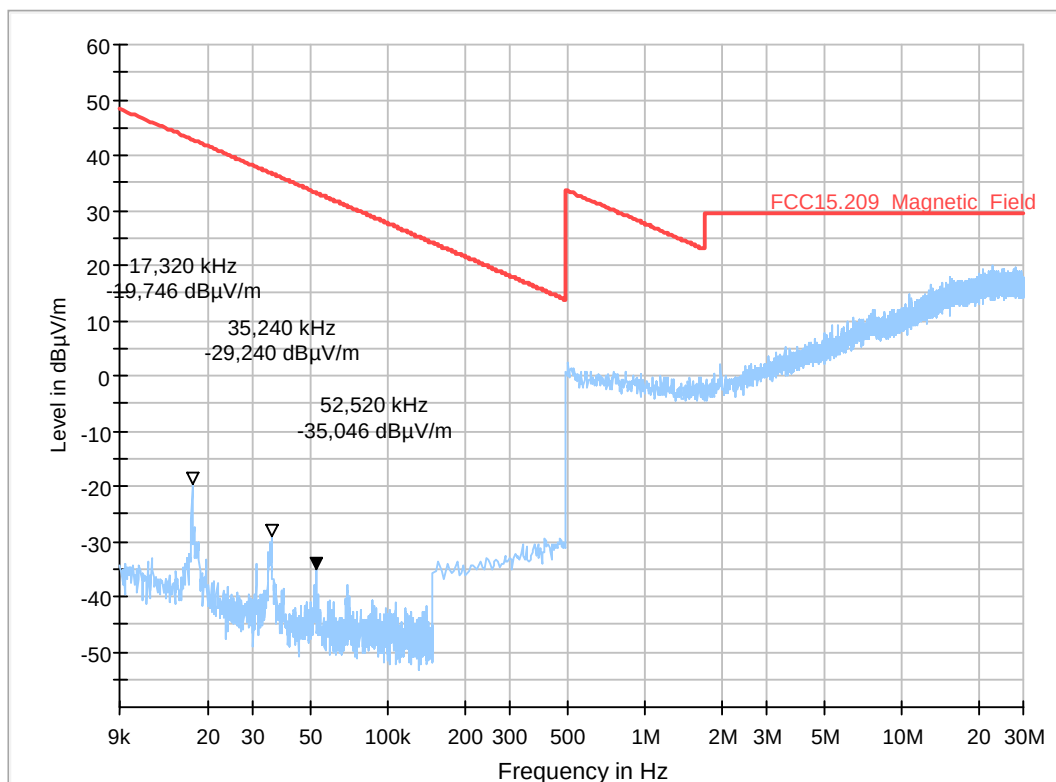
Common Information

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 V10.60.20
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:	b-mode 2Mbps; ch01; 2412MHz; antenna 2
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel low
Comment 2:	standing
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



2.05_g-mode_12Mbps_ch06

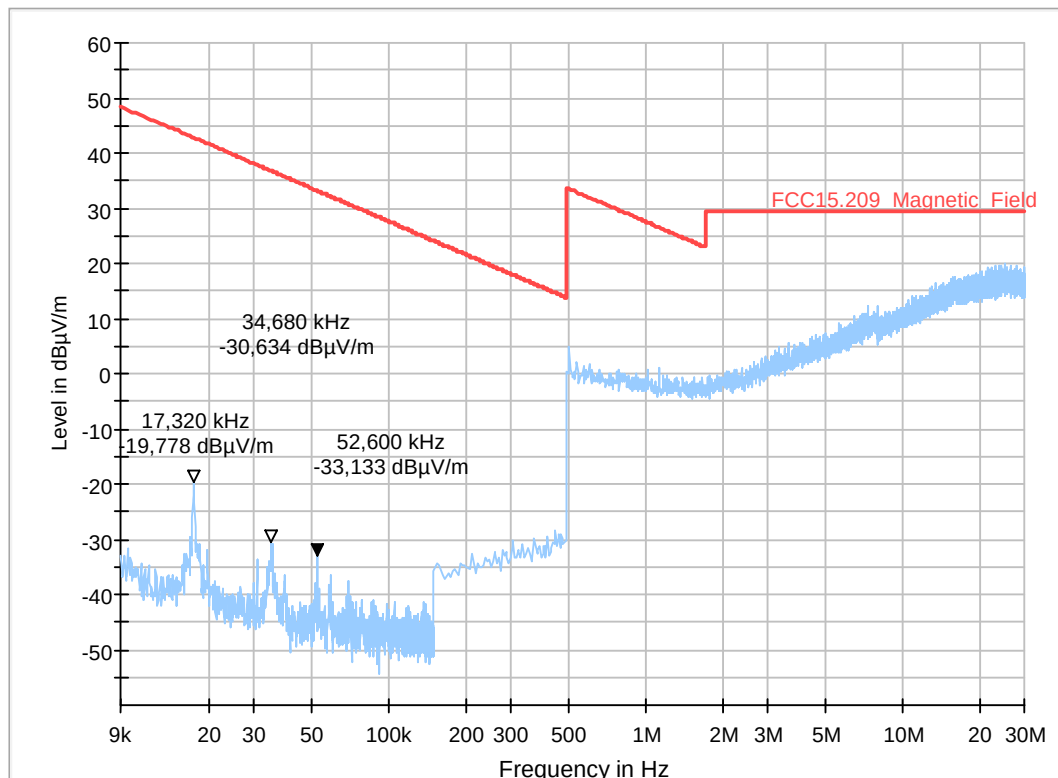
Common Information

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:	g-mode 12Mbps; ch06; 2437MHz; antenna 2
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel mid
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



2.06_n20-mode_MCS0_ch11

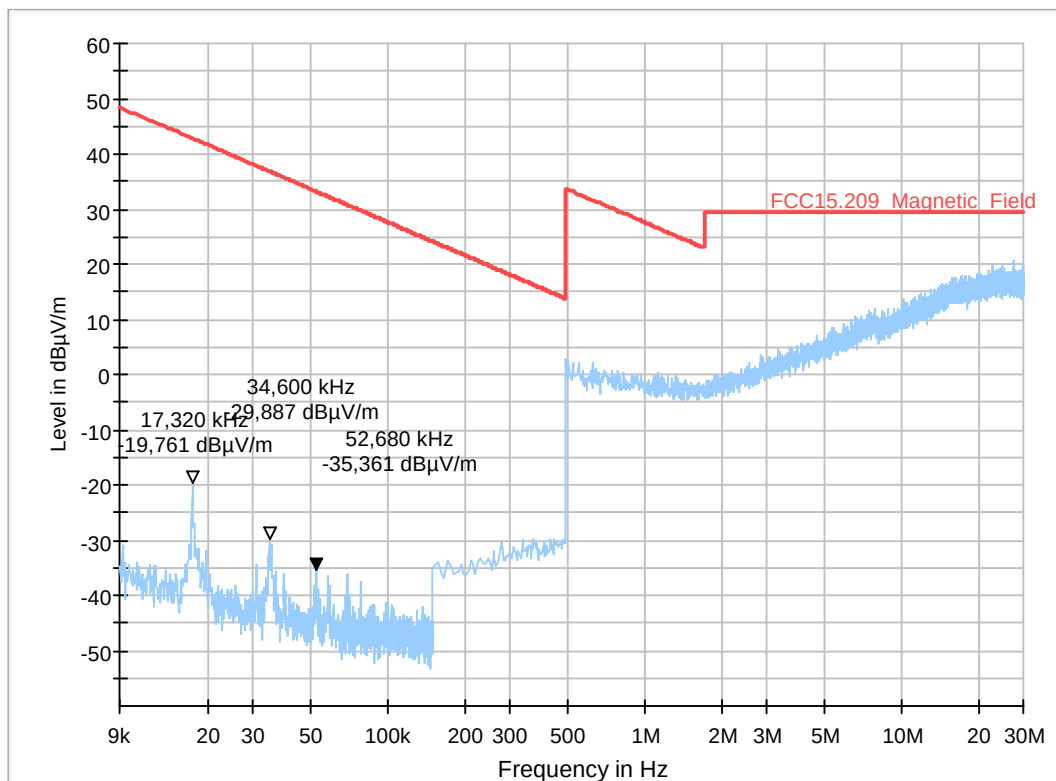
Common Information

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 V10.60.20
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 2
Power during tests:	120 V AC / 60 Hz
Comment 1:	Channel high
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



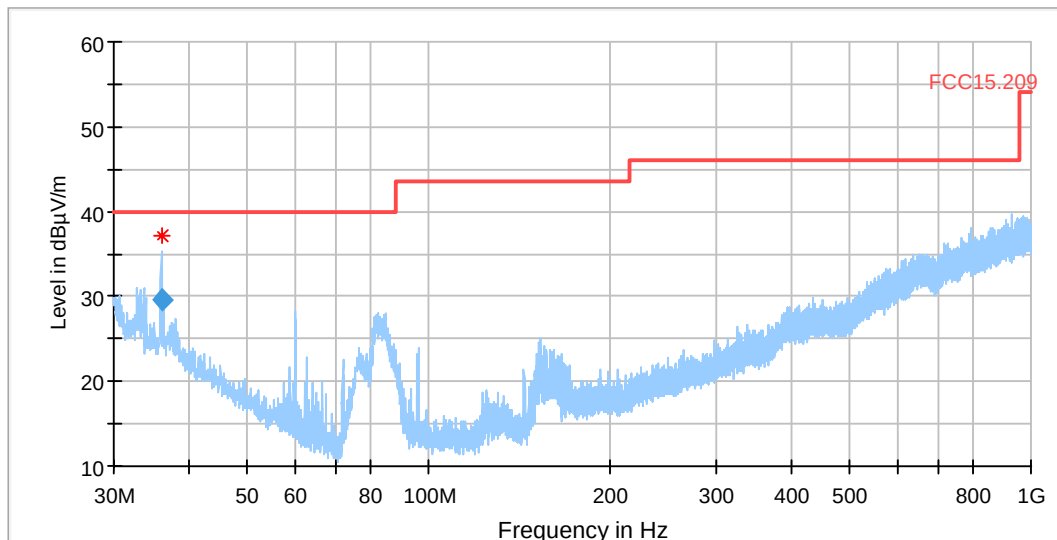
3.04a_b-mode_2Mbps_ch01

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH Essen
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:	laying
Operating Mode:	b-mode 2Mbps; ch01; 2412MHz, antenna 2
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)
36.010000	29.70	40.00	10.30	120.000	200.0	H	257.0	18.2	0.0

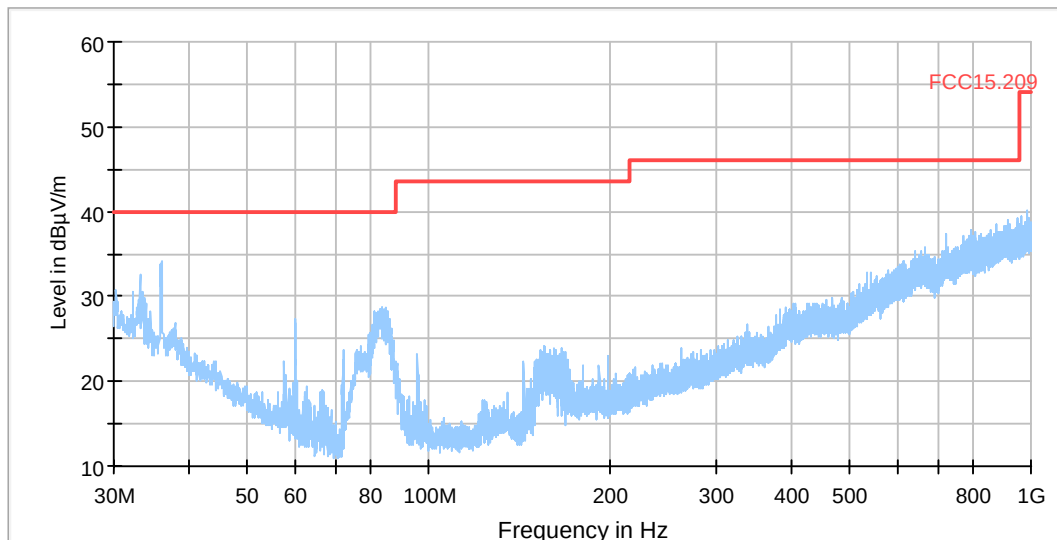
3.04b_b-mode_2Mbps_ch01

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH Essen
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,antenna 2
Verdict:	Passed

EUT Information

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



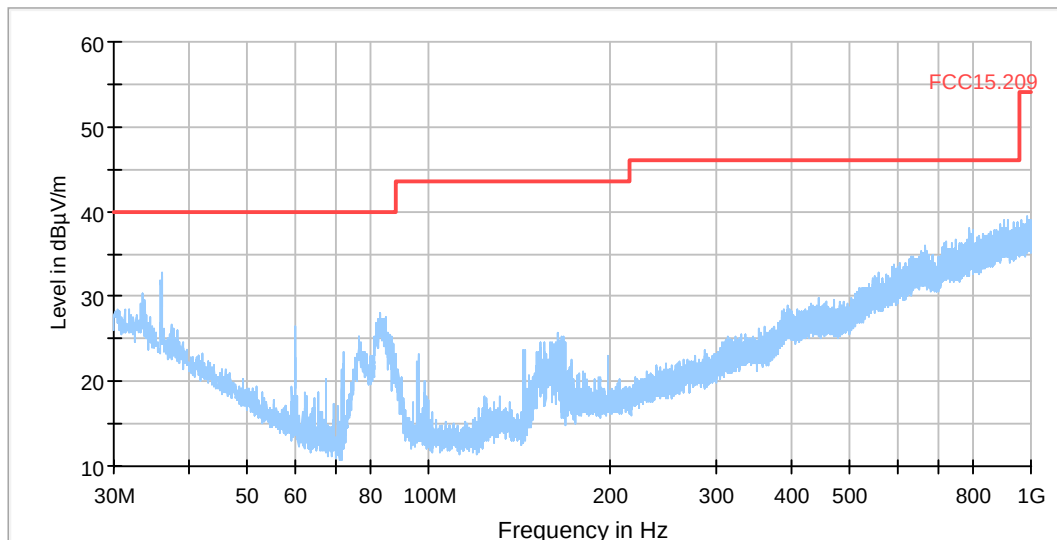
3.05_g-mode_12Mbps_ch06

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH Essen
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, antenna 2
Verdict:	Passed

EUT Information

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



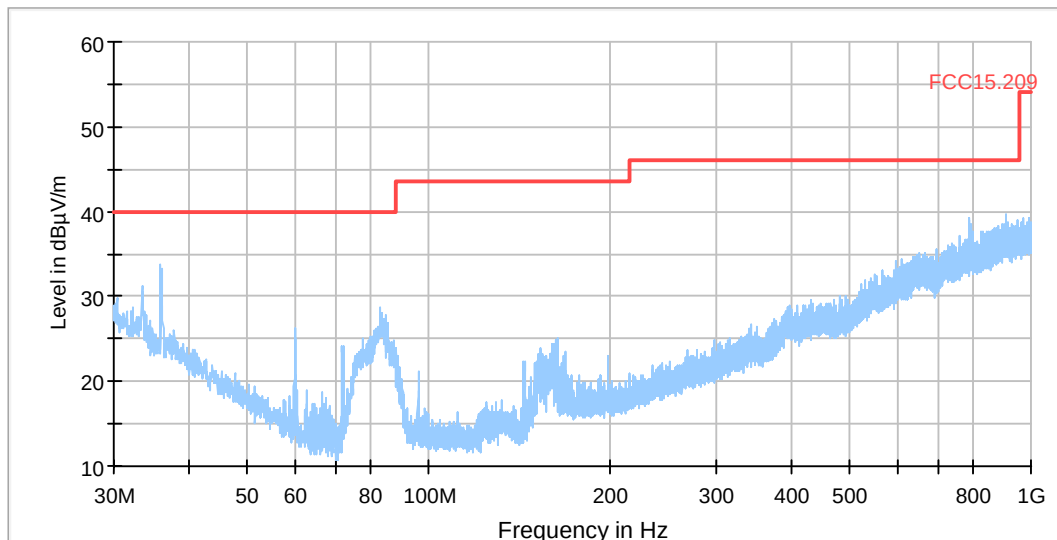
3.06_n20-mode_MCS0_ch11

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH Essen
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:	n20-mode MCS0; ch11; 2462MHz, antenna 2
Verdict:	Passed

EUT Information

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



4.21_b-mode_2Mbps_ch01

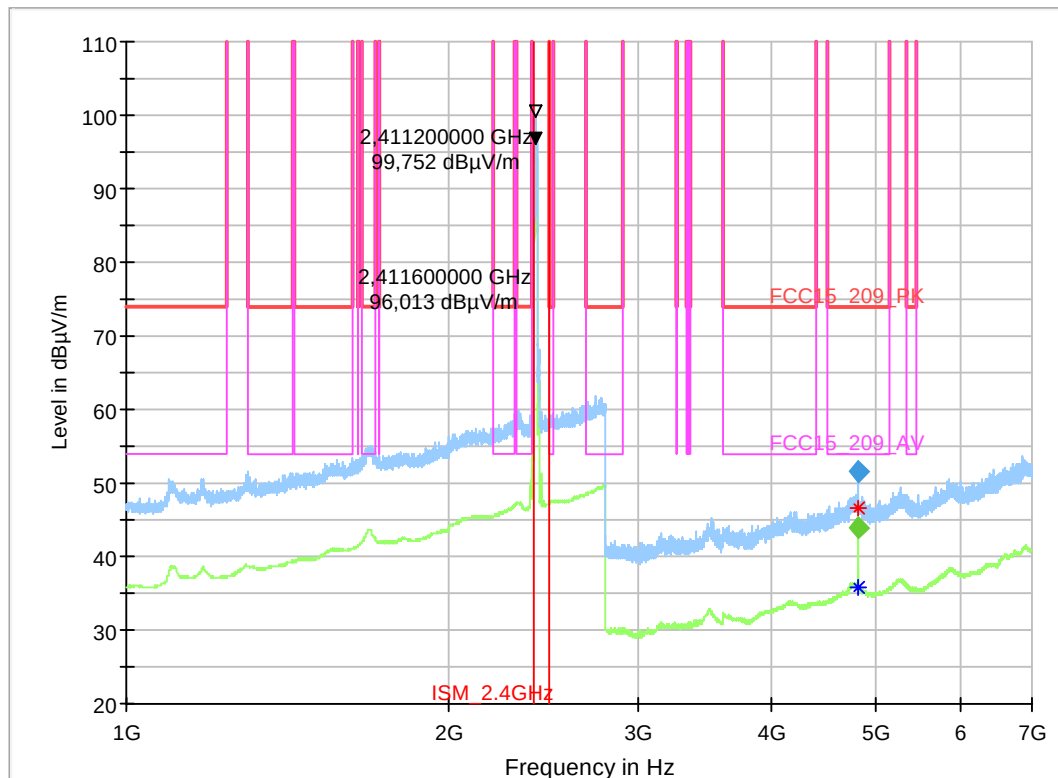
Common Information

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:	TX, continuous
Operator:	KTe
Comment:	Channel no. 1
Comment2:	Modulation Type: b-mode Data Rate: 2Mbps
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21 °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
4823.970000	---	43.85	54.00	10.15	100.0	1000.000	155.0	V	333.0	90.0
4823.970000	51.58	---	74.00	22.42	100.0	1000.000	155.0	V	317.0	90.0

4.22_b-mode_2Mbps_ch01

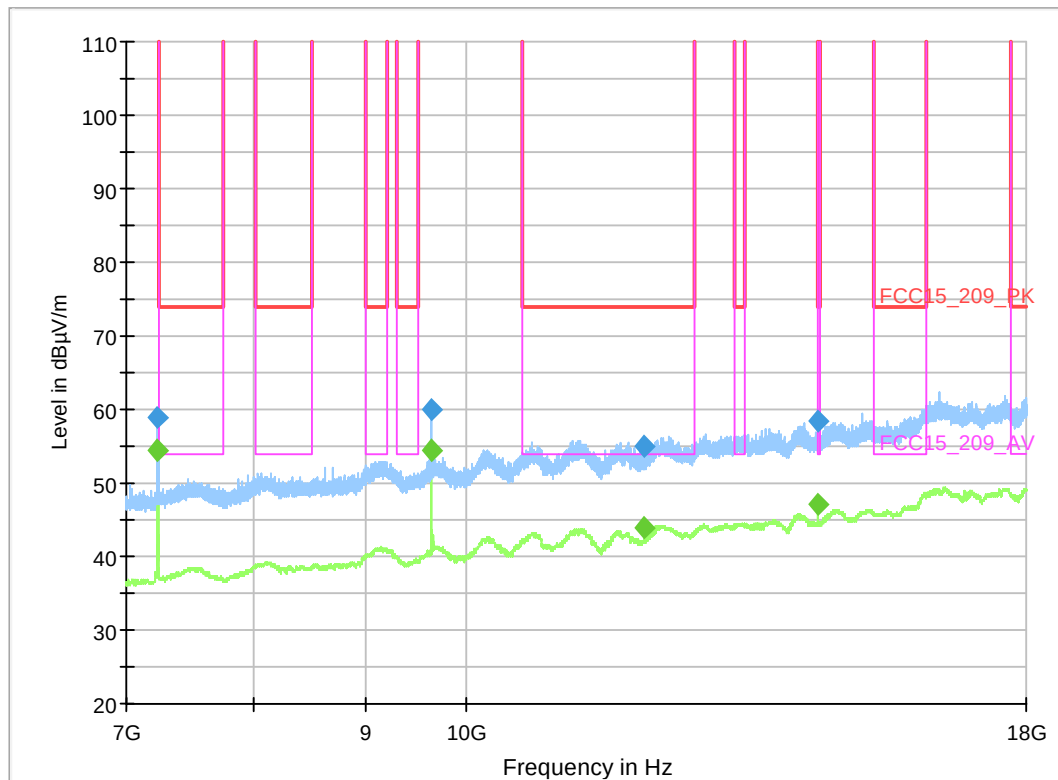
Common Information

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:	TX, continuous
Operator:	KTe
Comment:	Channel no. 1
Comment2:	Modulation Type: b-mode Data Rate: 2Mbps
Environmental Conditions:	Humidity : 52 % rH; Temperature: 21 °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
7235.210000	---	54.44	150.00	95.56	100.0	1000.000	155.0	H	91.0	0.0
7235.570000	58.86	---	150.00	91.14	100.0	1000.000	155.0	H	120.0	0.0
9647.970000	---	54.39	150.00	95.61	100.0	1000.000	155.0	H	307.0	90.0
9647.970000	59.97	---	150.00	90.03	100.0	1000.000	155.0	H	305.0	90.0
12058.250000	55.11	---	74.00	18.89	100.0	1000.000	155.0	V	322.0	90.0
12059.250000	---	44.02	54.00	9.98	100.0	1000.000	155.0	V	310.0	90.0
14472.010000	58.45	---	74.00	15.55	100.0	1000.000	155.0	V	232.0	90.0
14472.130000	---	47.15	54.00	6.85	100.0	1000.000	155.0	H	191.0	90.0

4.23_b-mode_2Mbps_ch01

Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom 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

