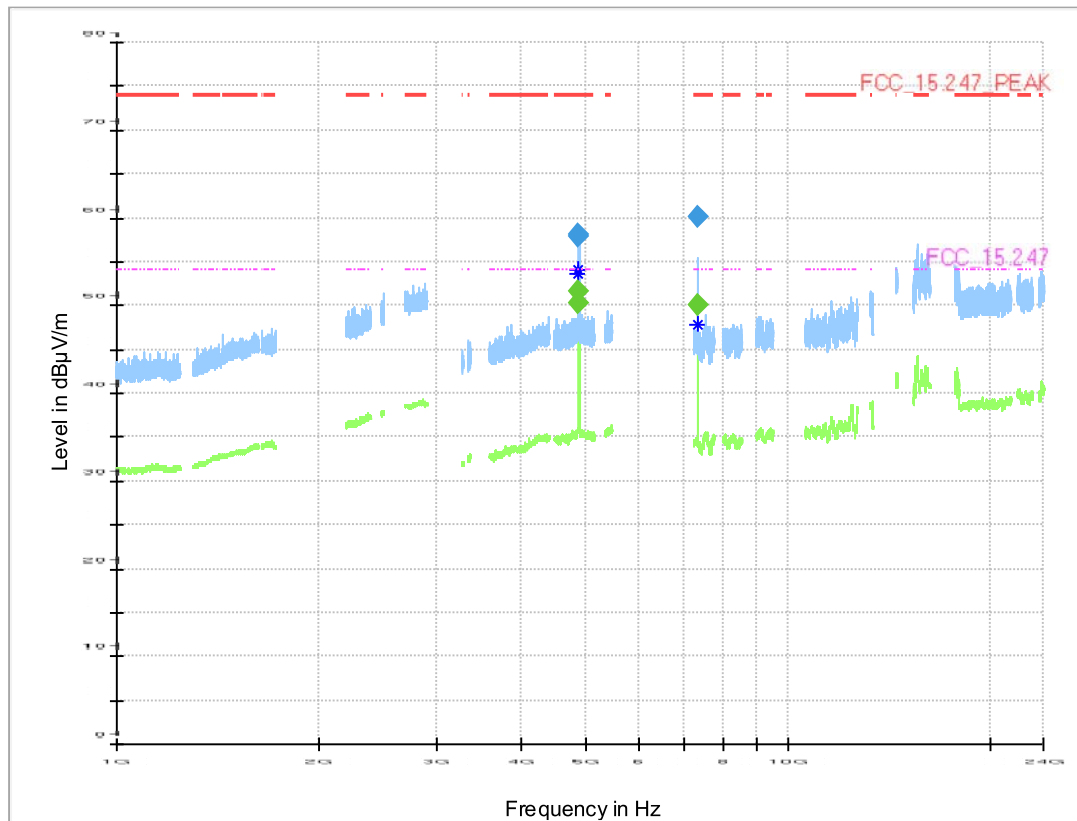


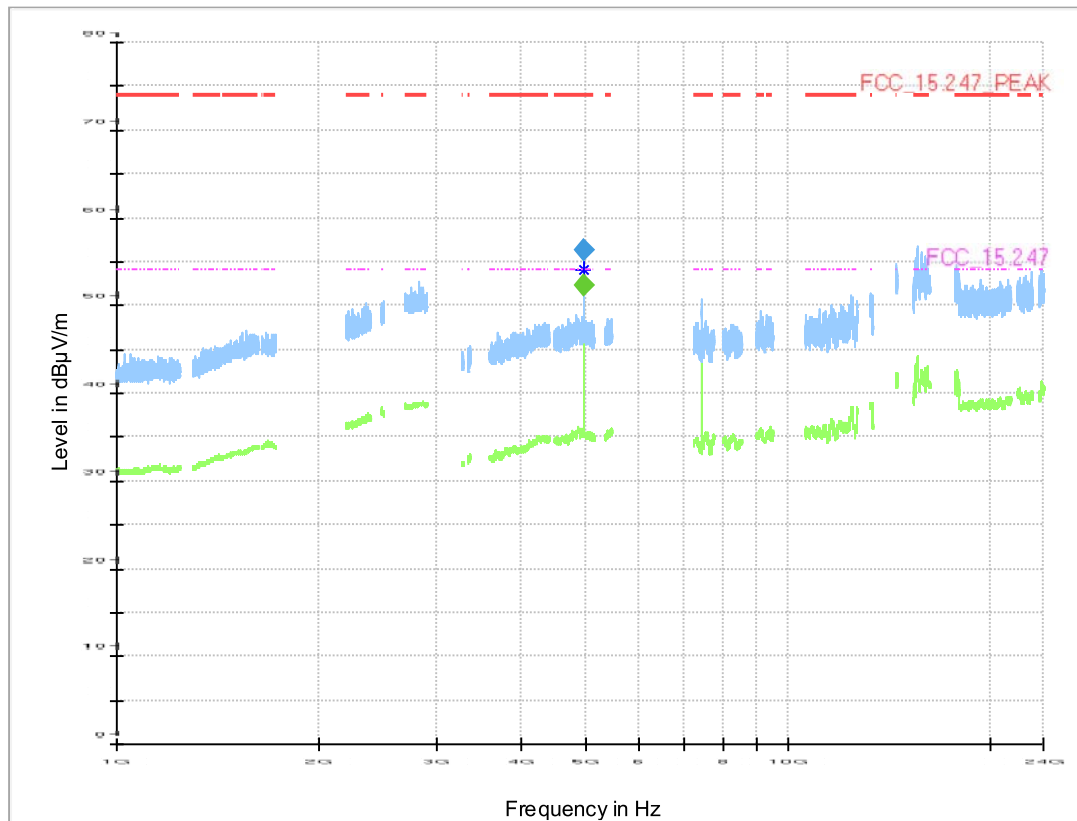
Radio Technology = Bluetooth BDR, Operating Frequency = mid, Measurement range = 1 GHz
- 26 GHz
(S02_166_AE01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
4882.200	---	51.7	54.00	2.34	1000.0	1000.000	150.0	H	-60.0	82.0	4.5
4882.200	57.8	---	74.00	16.19	1000.0	1000.000	150.0	H	-60.0	82.0	4.5
4882.363	---	50.3	54.00	3.67	1000.0	1000.000	150.0	H	-60.0	92.0	4.5
4882.363	58.1	---	74.00	15.94	1000.0	1000.000	150.0	H	-60.0	92.0	4.5
7322.250	---	50.1	54.00	3.93	1000.0	1000.000	150.0	V	2.0	11.0	-13.2
7322.250	60.1	---	74.00	13.86	1000.0	1000.000	150.0	V	2.0	11.0	-13.2

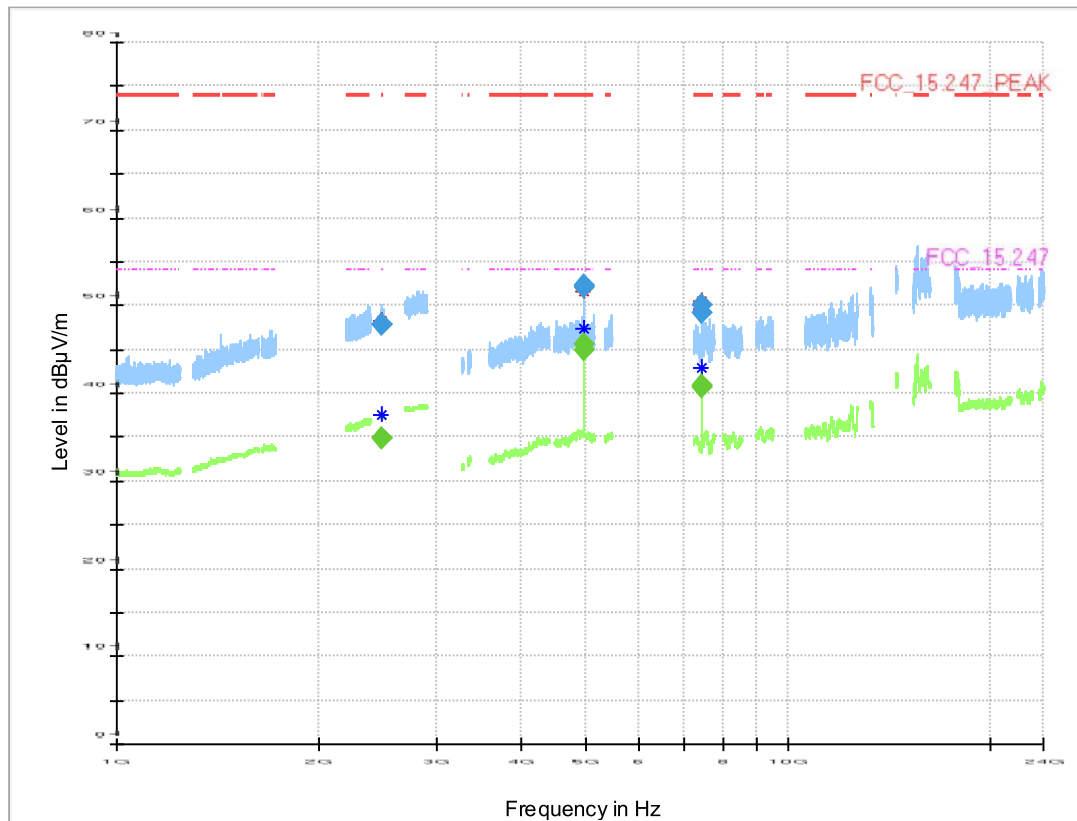
Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 1 GHz
- 26 GHz
(S02_166_AE01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
4960.038	---	52.3	54.00	1.68	1000.0	1000.000	150.0	H	-58.0	44.0	4.4
4960.038	56.2	---	74.00	17.78	1000.0	1000.000	150.0	H	-58.0	44.0	4.4

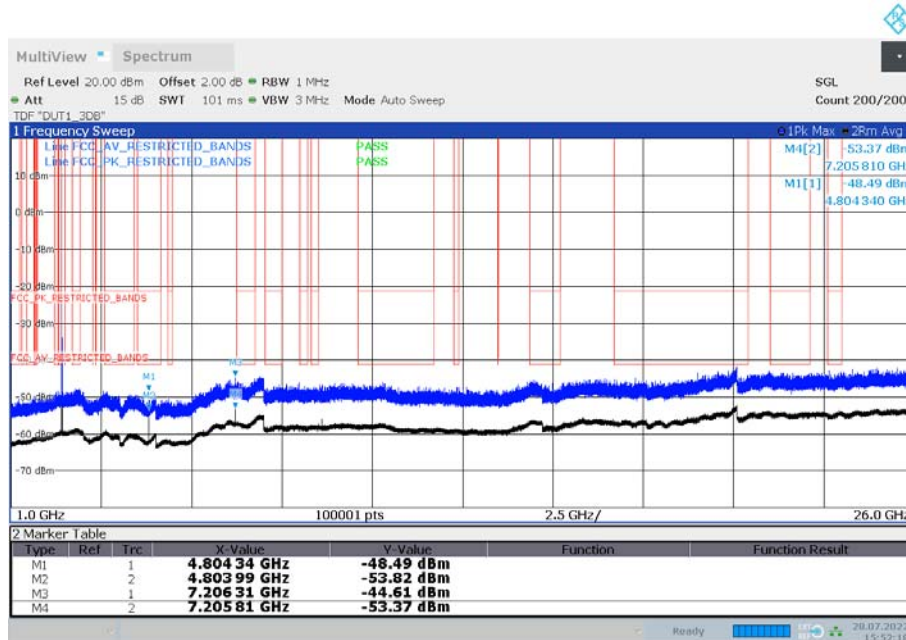
Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 1 GHz
- 26 GHz
(S02_166_AB01)



Final Result

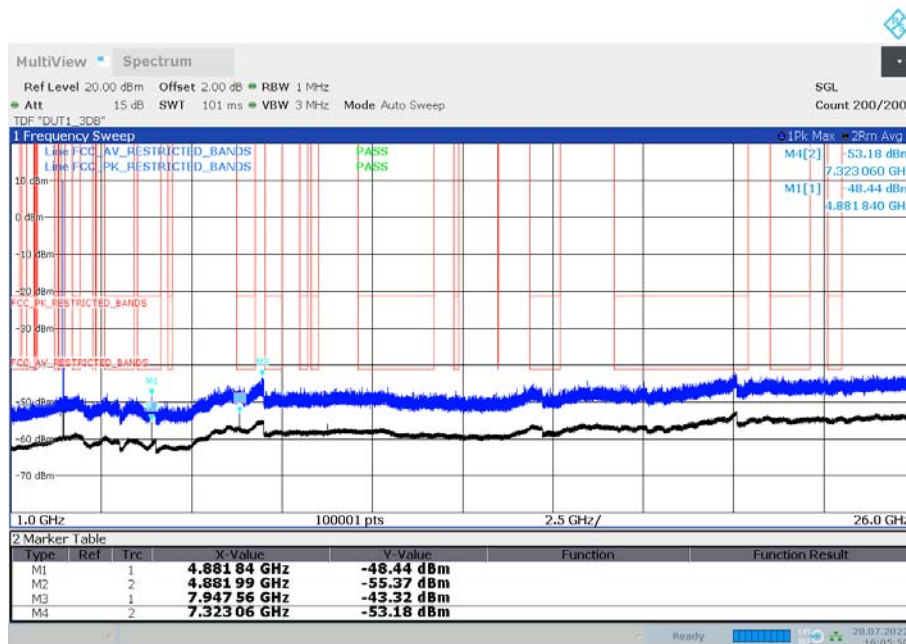
Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
2484.325	---	34.8	54.00	19.19	1000.0	1000.000	150.0	H	-52.0	4.0	5.3
2484.325	47.9	---	74.00	26.10	1000.0	1000.000	150.0	H	-52.0	4.0	5.3
2484.490	---	34.8	54.00	19.19	1000.0	1000.000	150.0	V	116.0	94.0	5.3
2484.490	47.8	---	74.00	26.23	1000.0	1000.000	150.0	V	116.0	94.0	5.3
4959.875	---	45.6	54.00	8.44	1000.0	1000.000	150.0	H	-36.0	-1.0	4.4
4959.875	52.2	---	74.00	21.81	1000.0	1000.000	150.0	H	-36.0	-1.0	4.4
4960.200	---	45.0	54.00	9.03	1000.0	1000.000	150.0	H	157.0	95.0	4.4
4960.200	52.2	---	74.00	21.84	1000.0	1000.000	150.0	H	157.0	95.0	4.4
7439.500	---	40.9	54.00	13.12	1000.0	1000.000	150.0	H	60.0	93.0	-13.3
7439.500	50.1	---	74.00	23.86	1000.0	1000.000	150.0	H	60.0	93.0	-13.3
7440.000	---	40.7	54.00	13.30	1000.0	1000.000	150.0	H	58.0	86.0	-13.2
7440.000	49.2	---	74.00	24.81	1000.0	1000.000	150.0	H	58.0	86.0	-13.2

Radio Technology = Bluetooth BDR, Operating Frequency = low, Measurement range = 1 GHz
- 26 GHz
(S01_166_AB01)



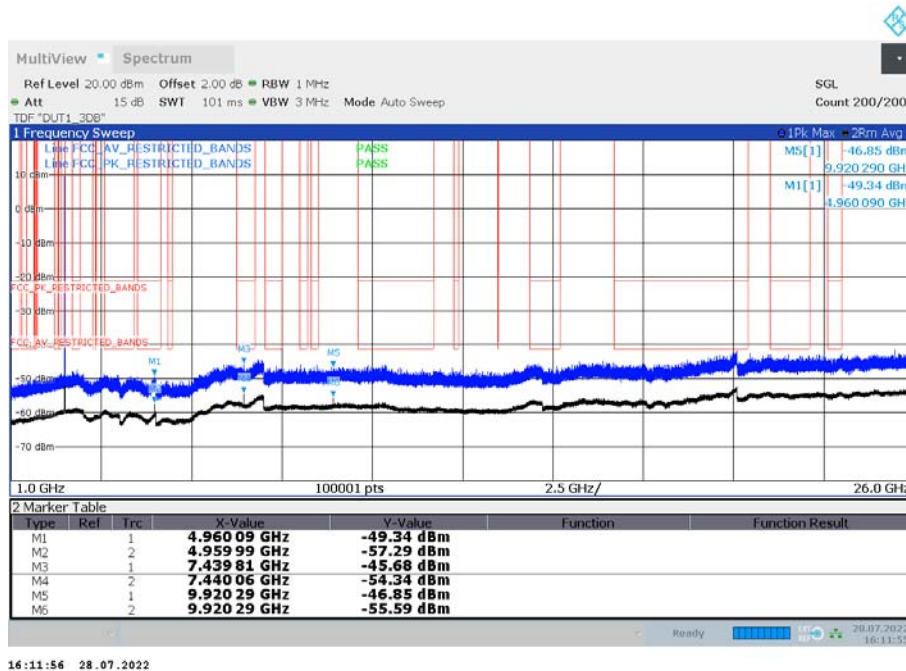
15:52:18 28.07.2022

Radio Technology = Bluetooth BDR, Operating Frequency = mid, Measurement range = 1 GHz
- 26 GHz
(S01_166_AB01)

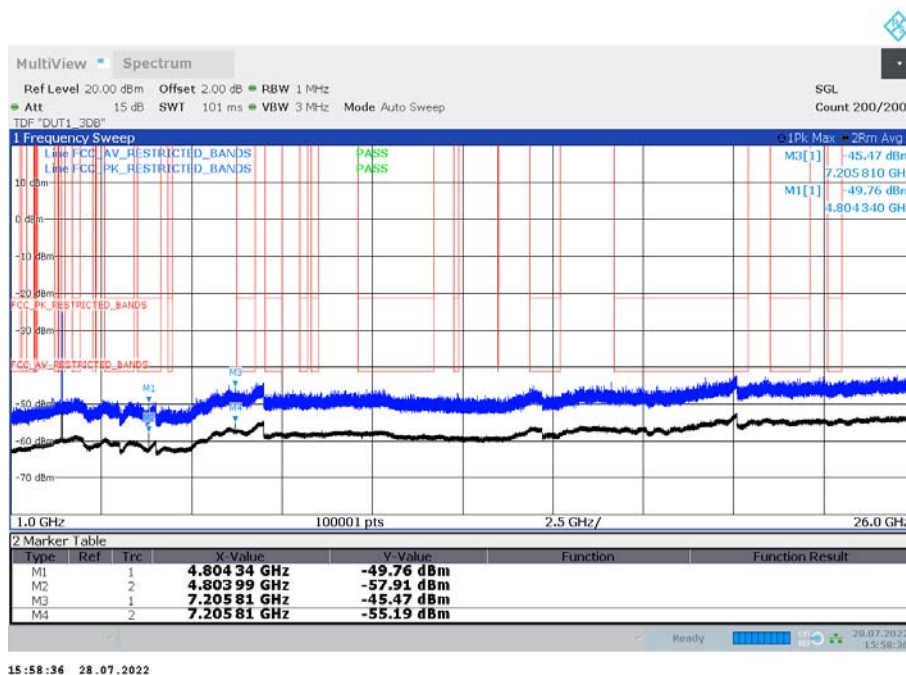


16:05:51 28.07.2022

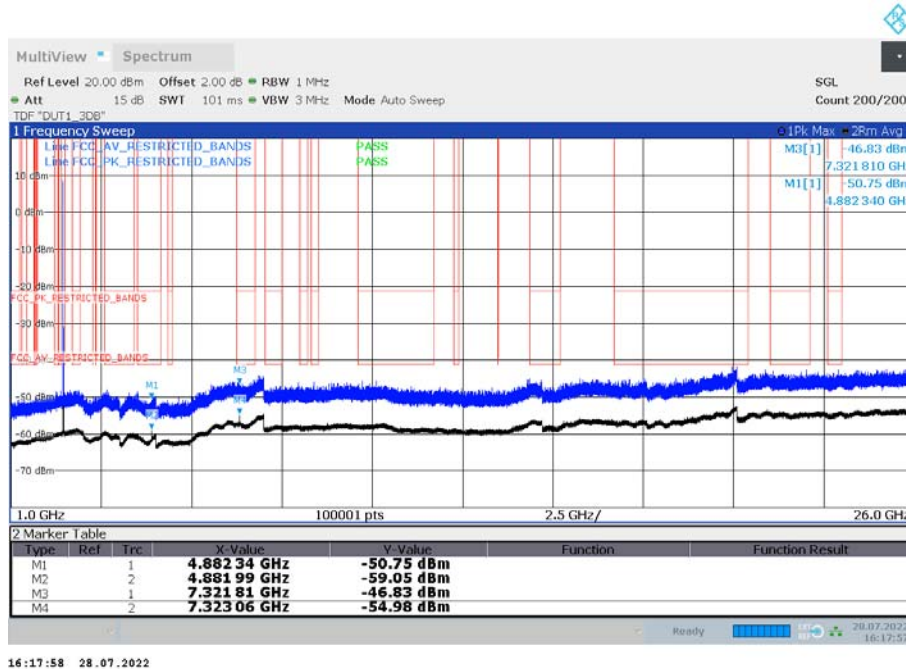
Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 1 GHz
- 26 GHz
(S01_166_AB01)



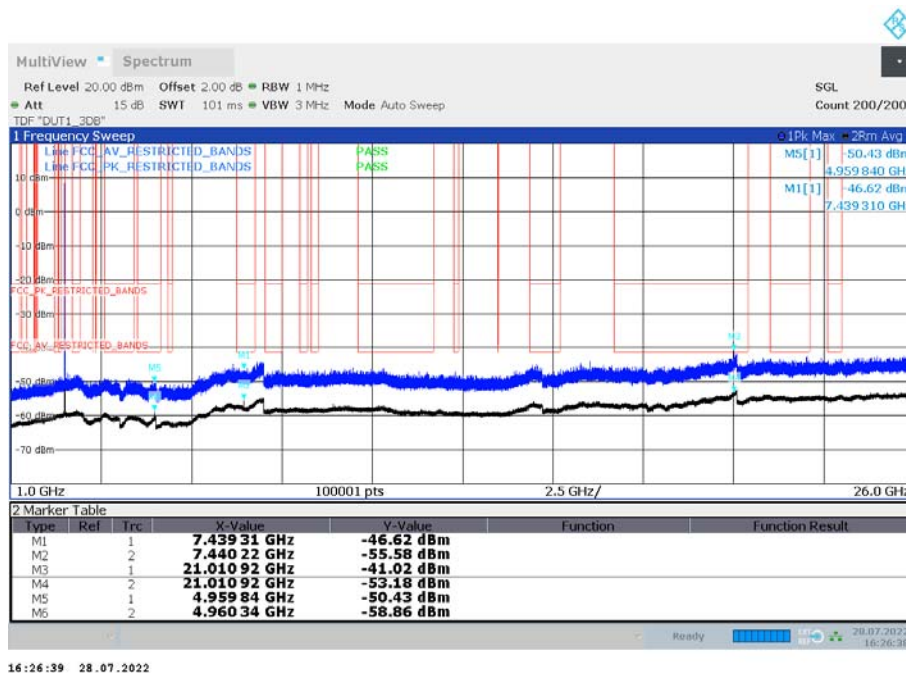
Radio Technology = Bluetooth EDR 2, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



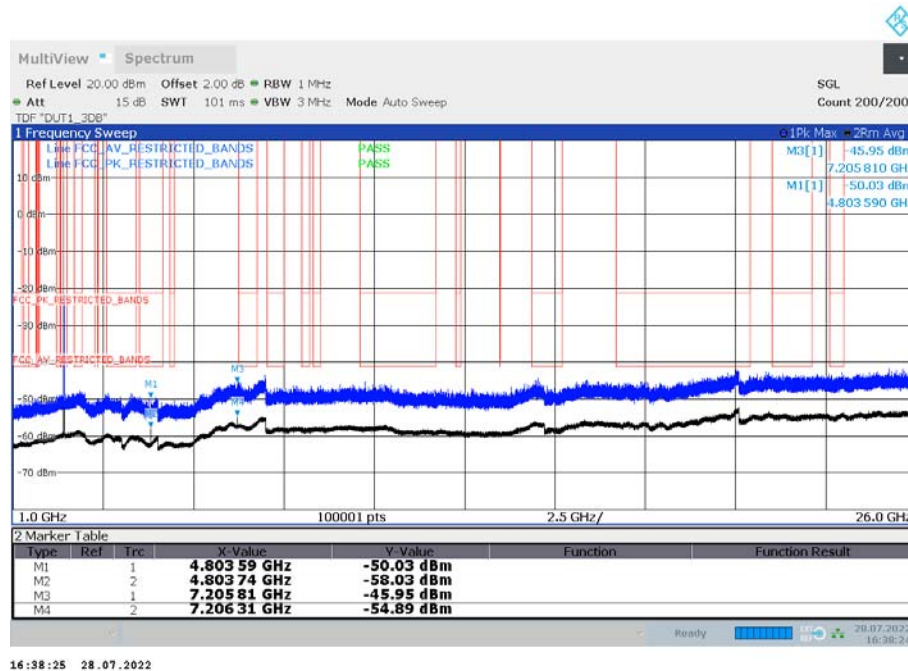
Radio Technology = Bluetooth EDR 2, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



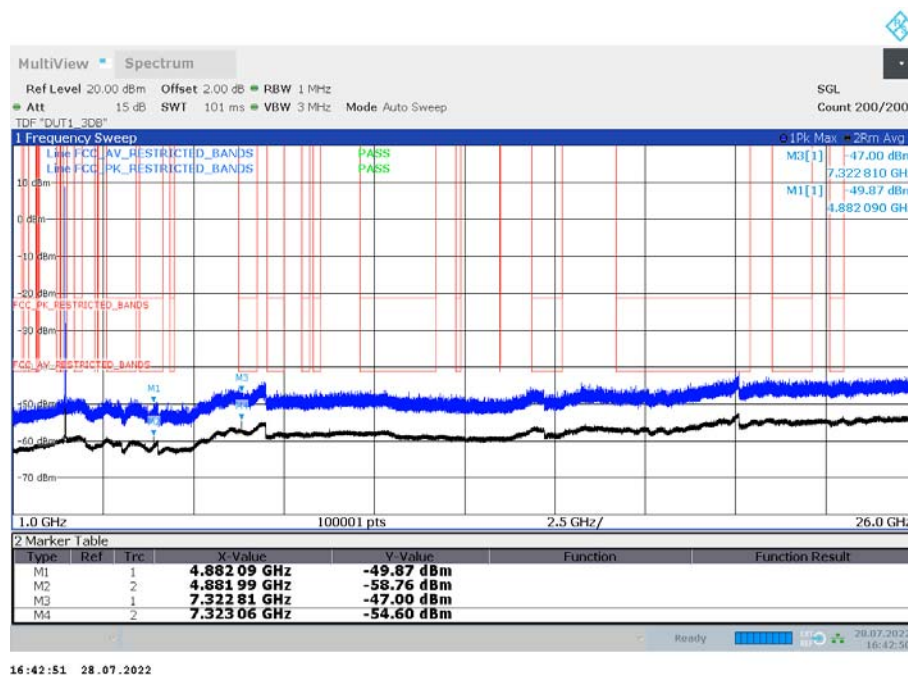
Radio Technology = Bluetooth EDR 2, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



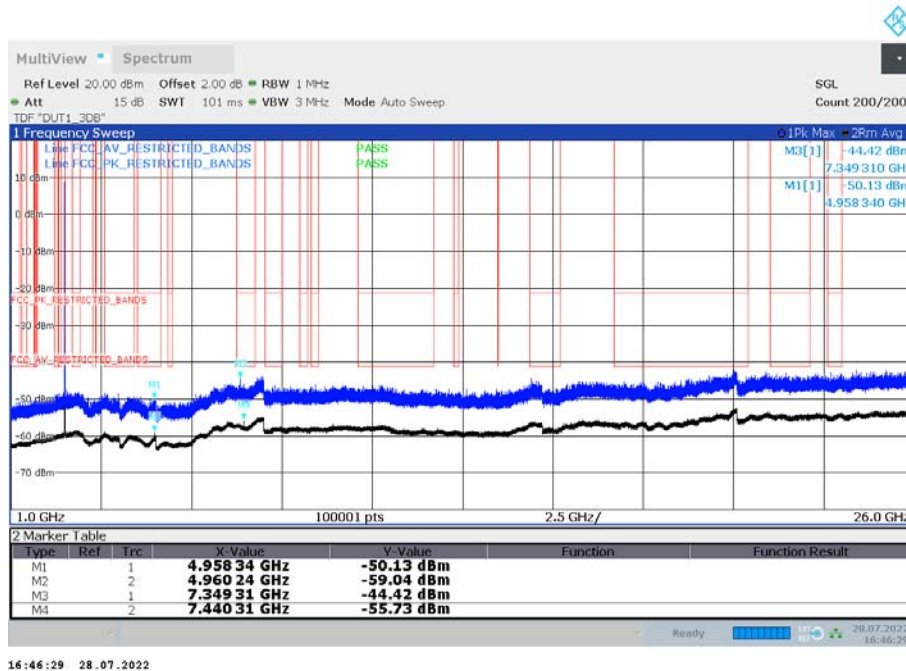
Radio Technology = Bluetooth EDR 3, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



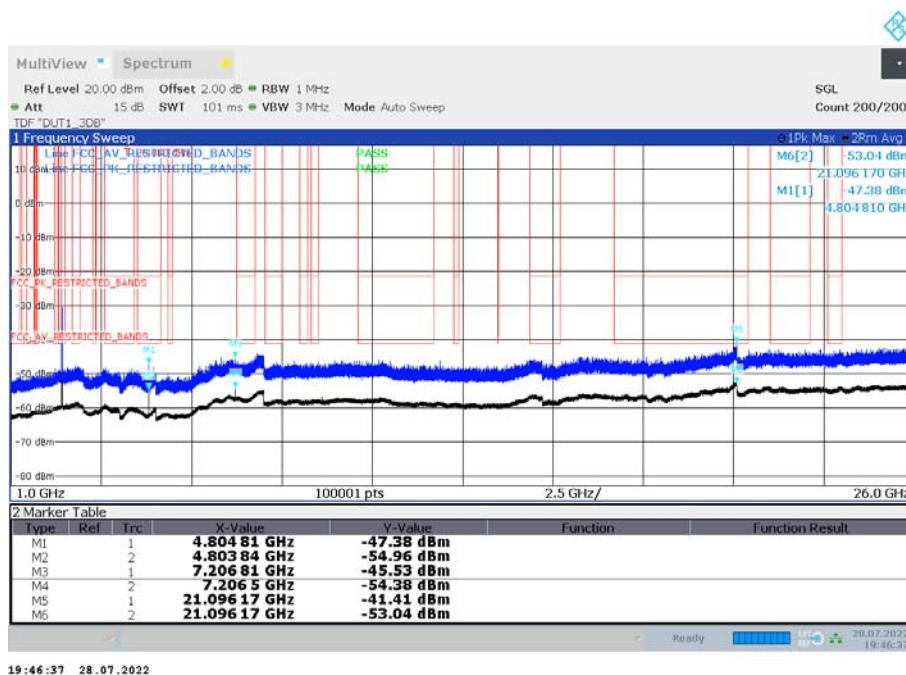
Radio Technology = Bluetooth EDR 3, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



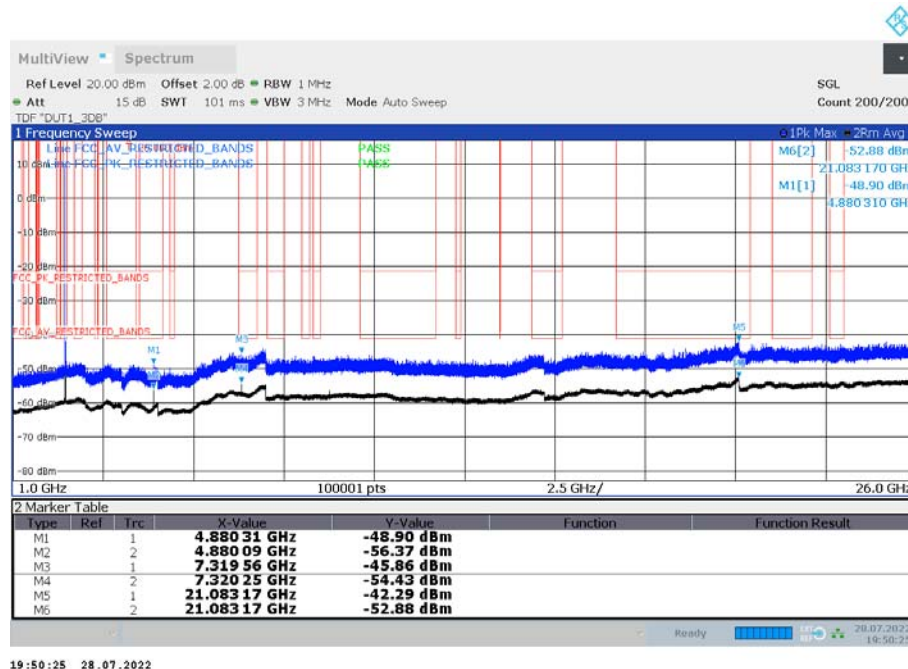
Radio Technology = Bluetooth EDR 3, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



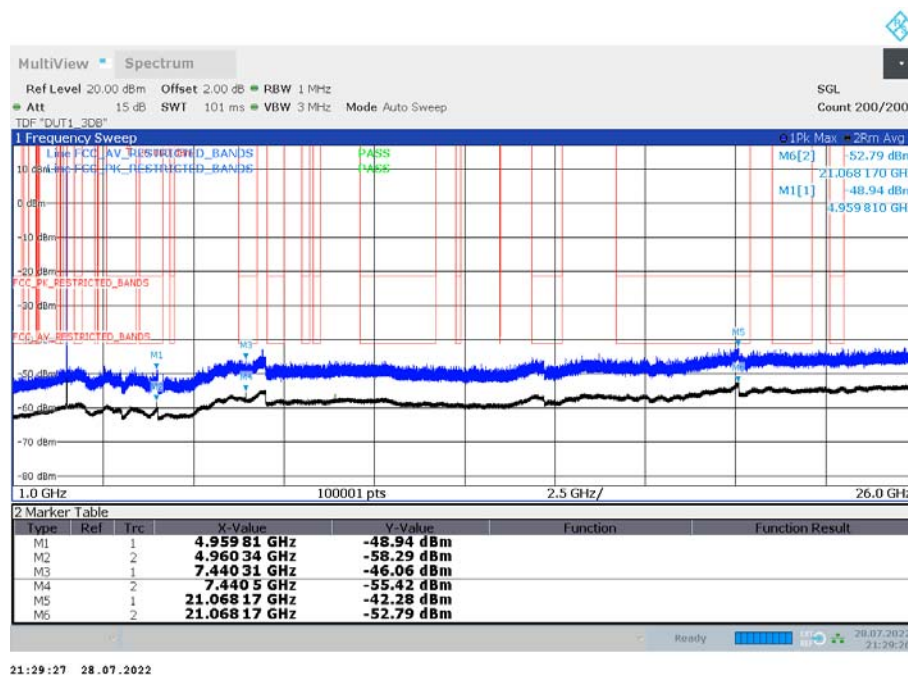
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



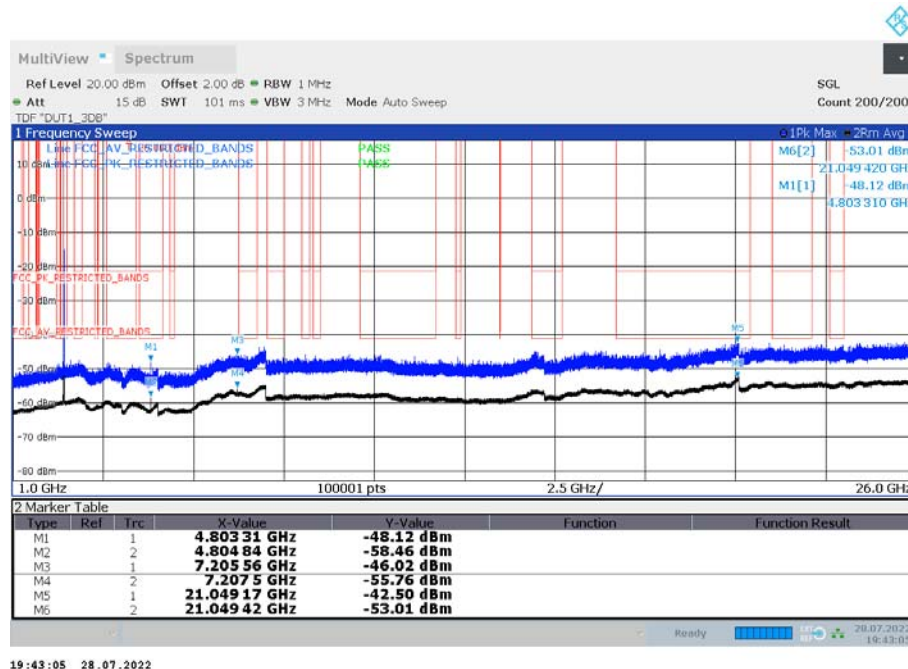
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = mid, Measurement range =
1 GHz - 26 GHz
(S01_166_AB01)



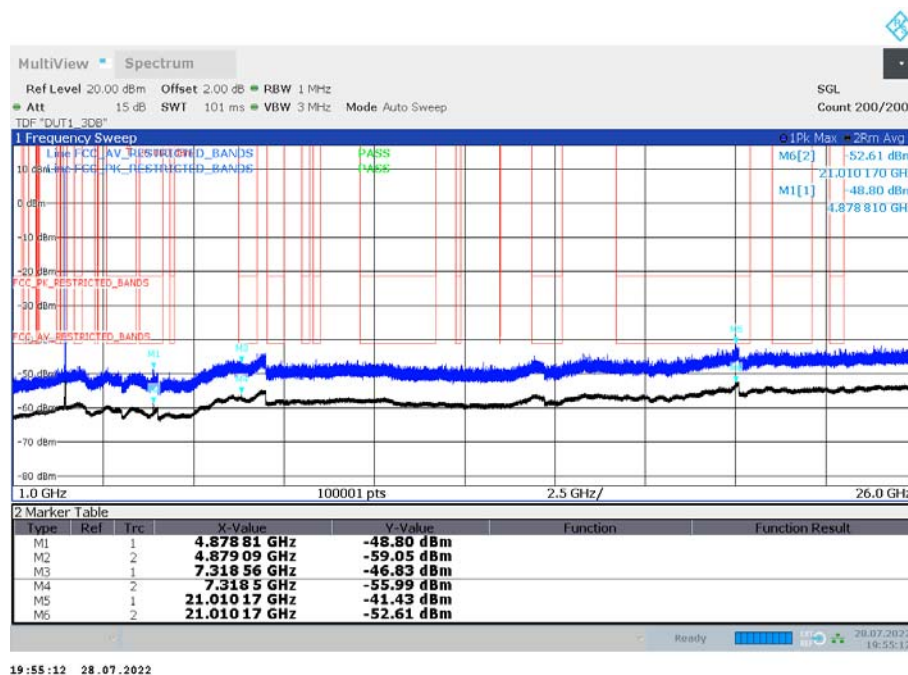
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = high, Measurement range =
1 GHz - 26 GHz
(S01_166_AB01)



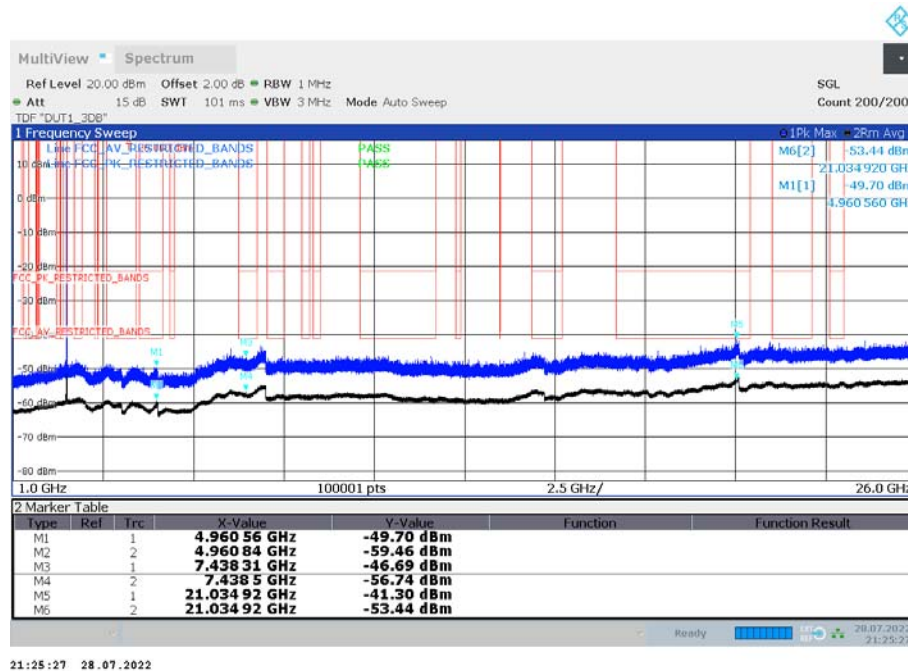
Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



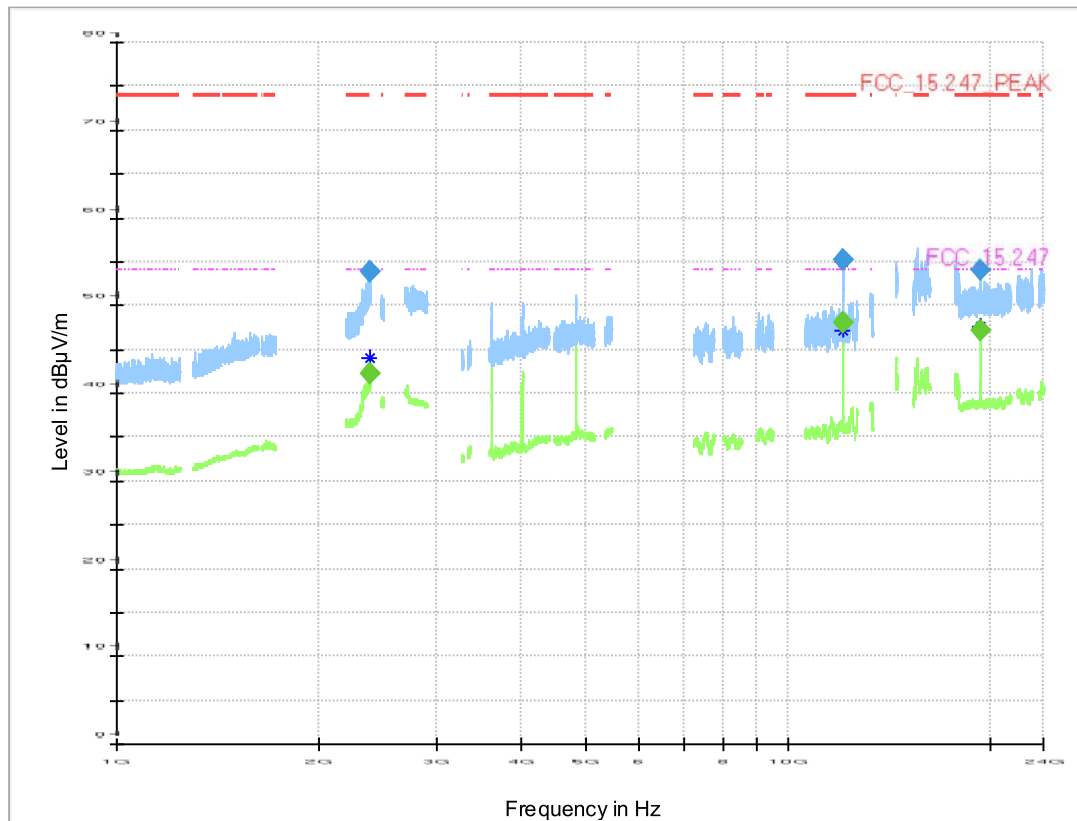
Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = high, Measurement range =
1 GHz - 26 GHz
(S01_166_AB01)



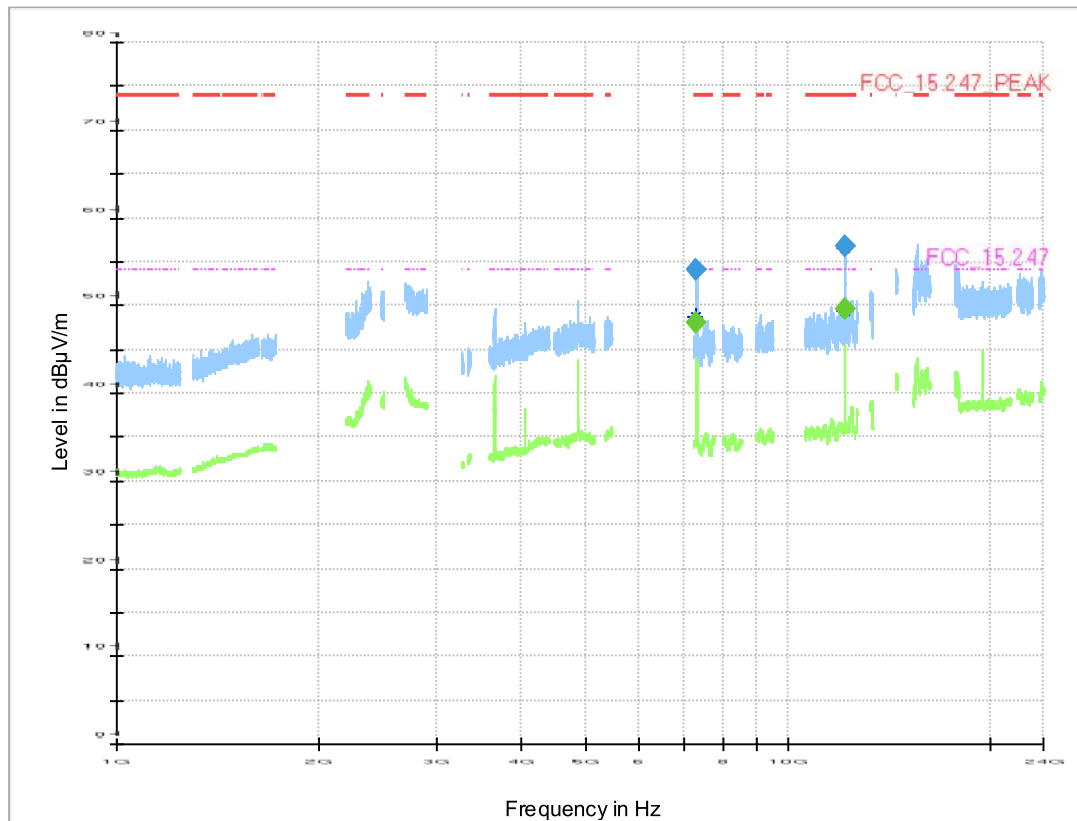
Radio Technology = WLAN b, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S02_166_AF01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
2385.760	---	42.2	54.00	11.82	1000.0	1000.000	150.0	V	97.0	88.0	4.9
2385.760	53.9	---	74.00	20.13	1000.0	1000.000	150.0	V	97.0	88.0	4.9
12061.600	---	47.9	54.00	6.06	1000.0	1000.000	150.0	V	-173.0	-12.0	-7.6
12061.600	55.3	---	74.00	18.73	1000.0	1000.000	150.0	V	-173.0	-12.0	-7.6
19295.910	---	47.2	54.00	6.77	1000.0	1000.000	150.0	V	27.0	96.0	17.2
19295.910	54.2	---	74.00	19.81	1000.0	1000.000	150.0	V	27.0	96.0	17.2

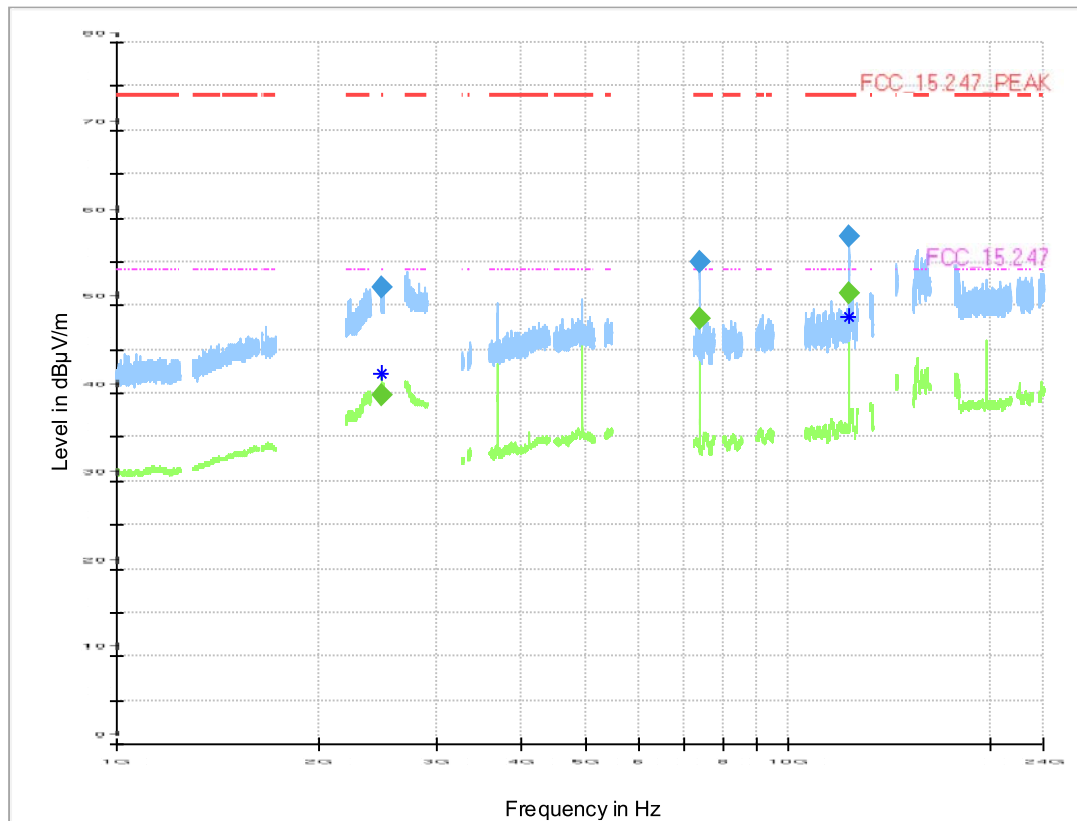
Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S02_166_AF01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
7312.750	---	48.0	54.00	5.96	1000.0	1000.000	150.0	H	117.0	105.0	-13.0
7312.750	54.1	---	74.00	19.90	1000.0	1000.000	150.0	H	117.0	105.0	-13.0
12186.445	---	49.6	54.00	4.36	1000.0	1000.000	150.0	V	-180.0	-3.0	-7.9
12186.445	56.8	---	74.00	17.19	1000.0	1000.000	150.0	V	-180.0	-3.0	-7.9

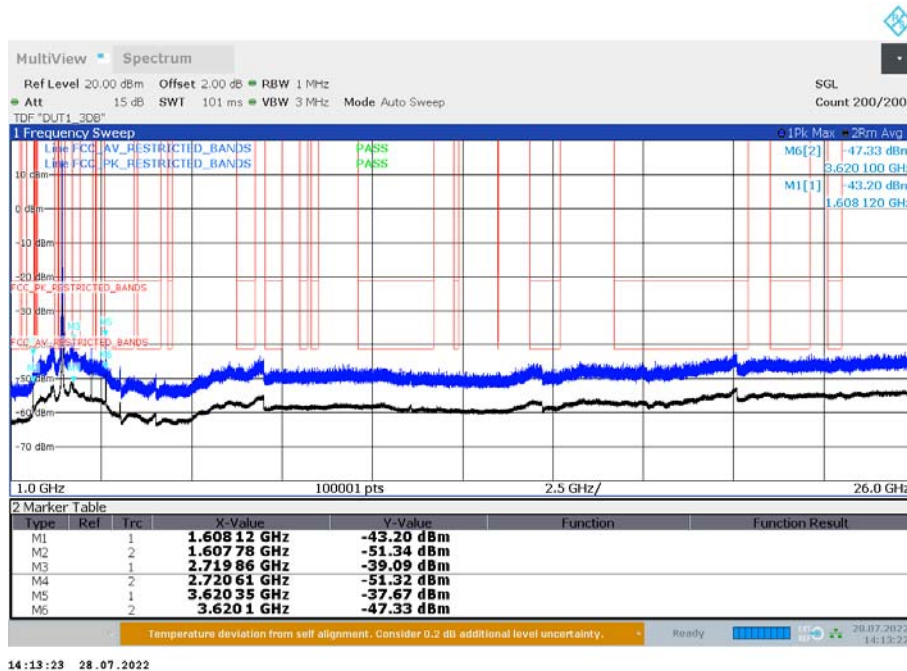
Radio Technology = WLAN b, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S02_166_AF01)



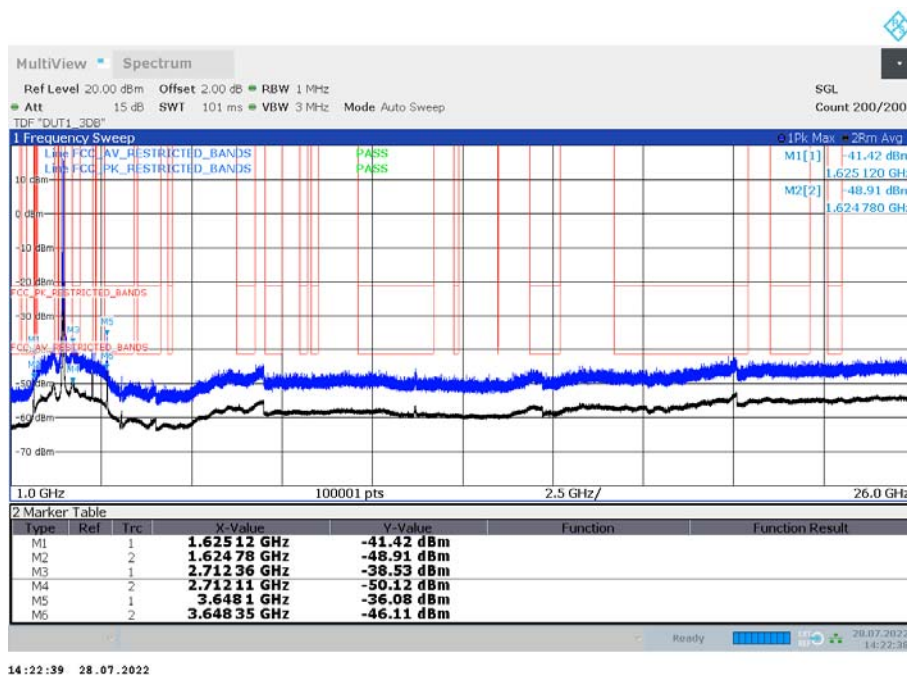
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
2483.665	52.0	---	74.00	22.01	1000.0	1000.000	150.0	H	-161.0	8.0	5.3
2483.665	---	39.8	54.00	14.24	1000.0	1000.000	150.0	H	-161.0	8.0	5.3
7384.500	54.9	---	74.00	19.10	1000.0	1000.000	150.0	H	67.0	105.0	-14.2
7384.500	---	48.4	54.00	5.59	1000.0	1000.000	150.0	H	67.0	105.0	-14.2
12309.295	57.9	---	74.00	16.07	1000.0	1000.000	150.0	V	-179.0	-12.0	-7.0
12309.295	---	51.3	54.00	2.68	1000.0	1000.000	150.0	V	-179.0	-12.0	-7.0

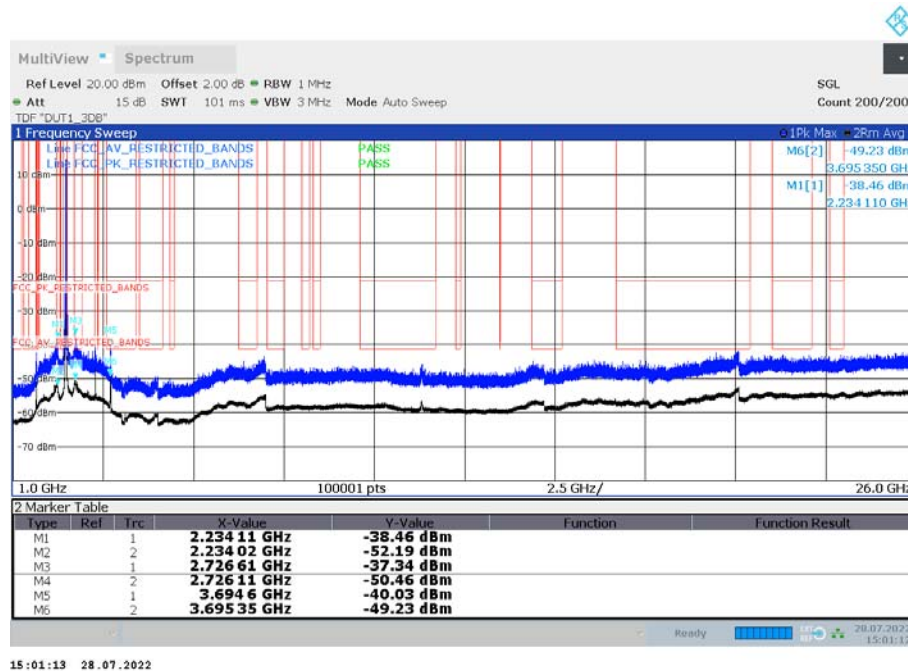
Radio Technology = WLAN g, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



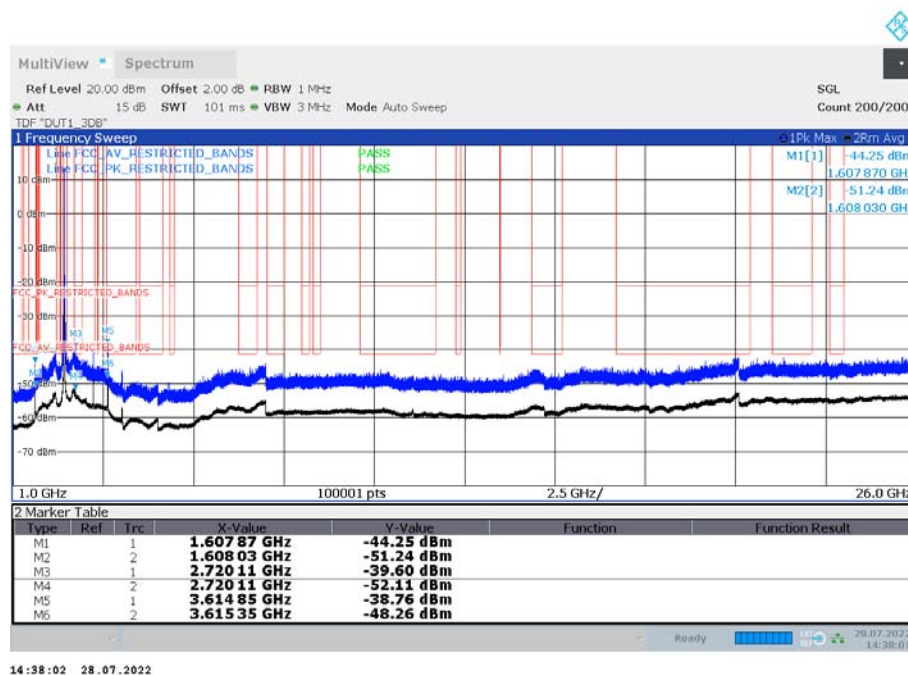
Radio Technology = WLAN g, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



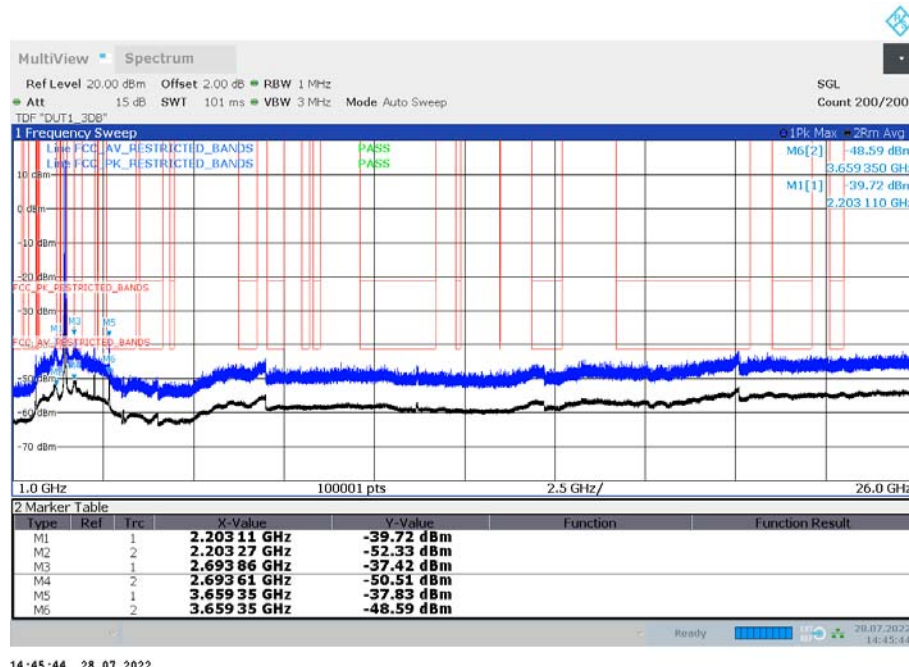
Radio Technology = WLAN g, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)

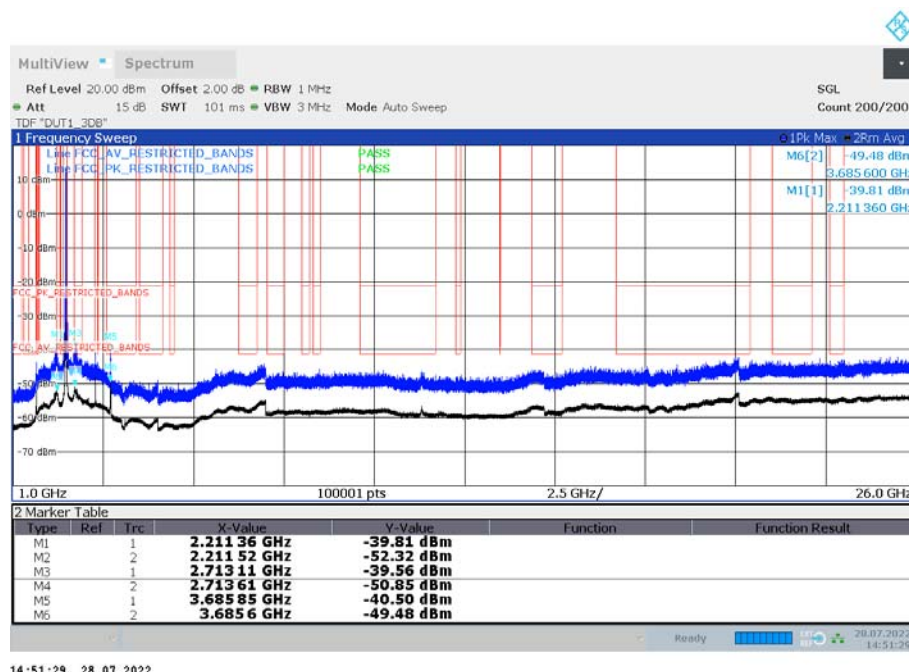


Radio Technology = WLAN n 20 MHz, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



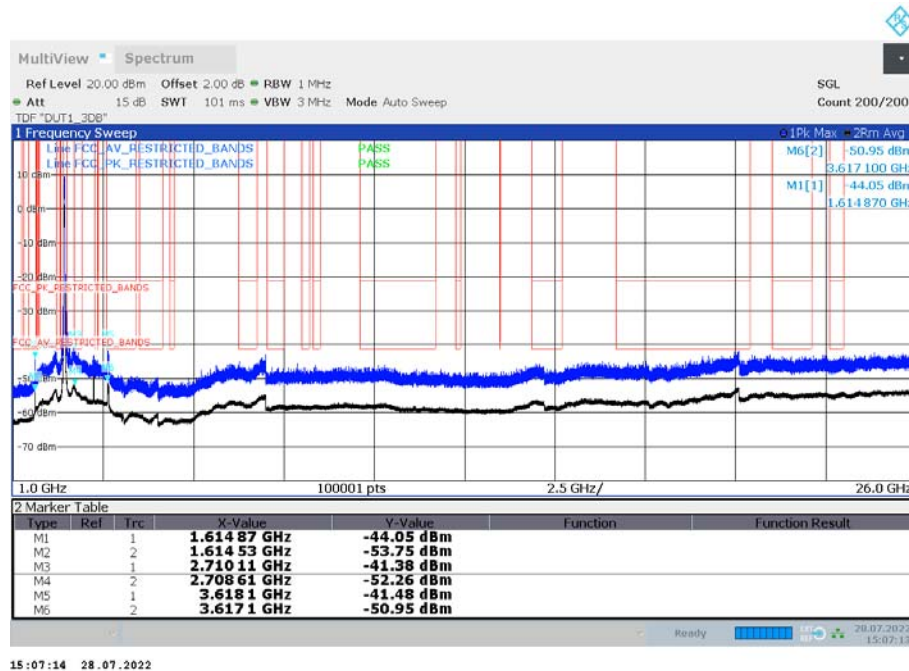
14:45:44 28.07.2022

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)

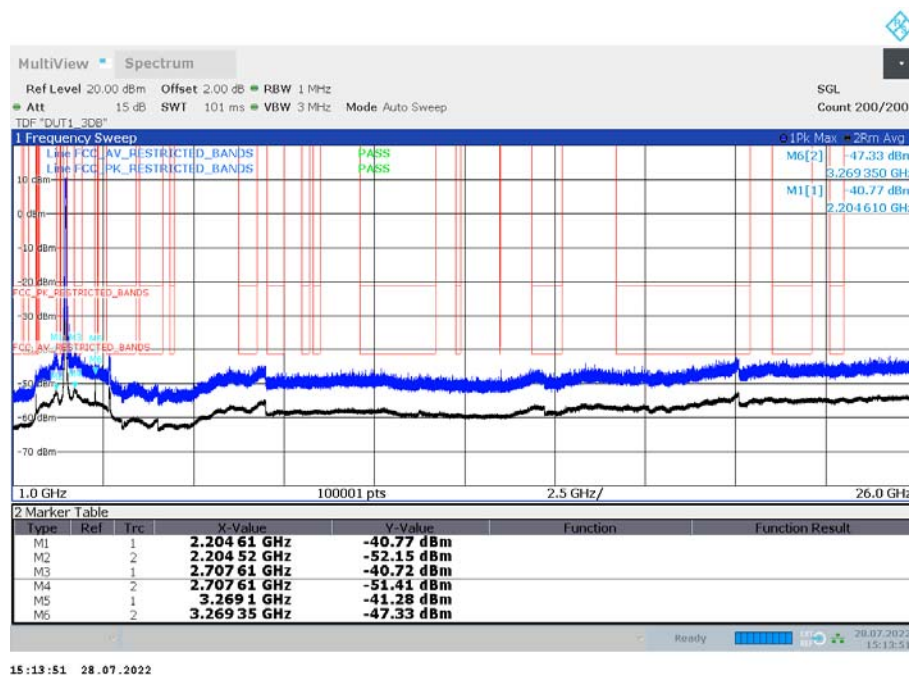


14:51:29 28.07.2022

Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



5.6.5 TEST EQUIPMENT USED

- Radiated Emissions FAR 2.4 GHz FCC
- Radiated Emissions SAC H-Field
- Radiated Emissions SAC up to 1 GHz
- R&S TS8997

5.7 BAND EDGE COMPLIANCE CONDUCTED

Standard **FCC Part 15 Subpart C**

The test was performed according to:
ANSI C63.10 11.11

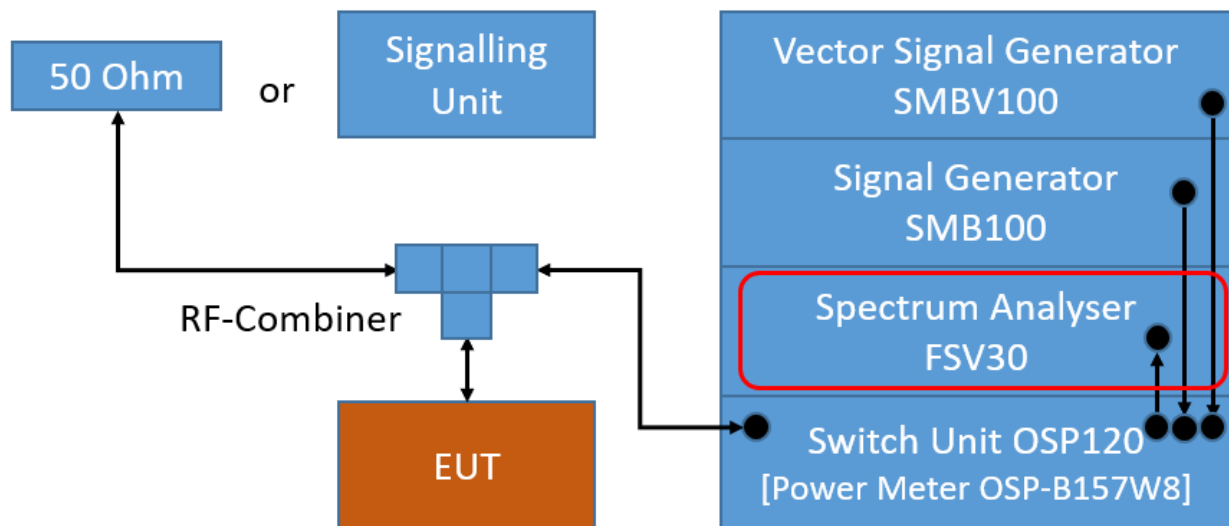
5.7.1 TEST DESCRIPTION

For the conducted measurement, the Equipment Under Test (EUT) is placed in a shielded room. The reference power was measured in the test case "Spurious RF Conducted Emissions".

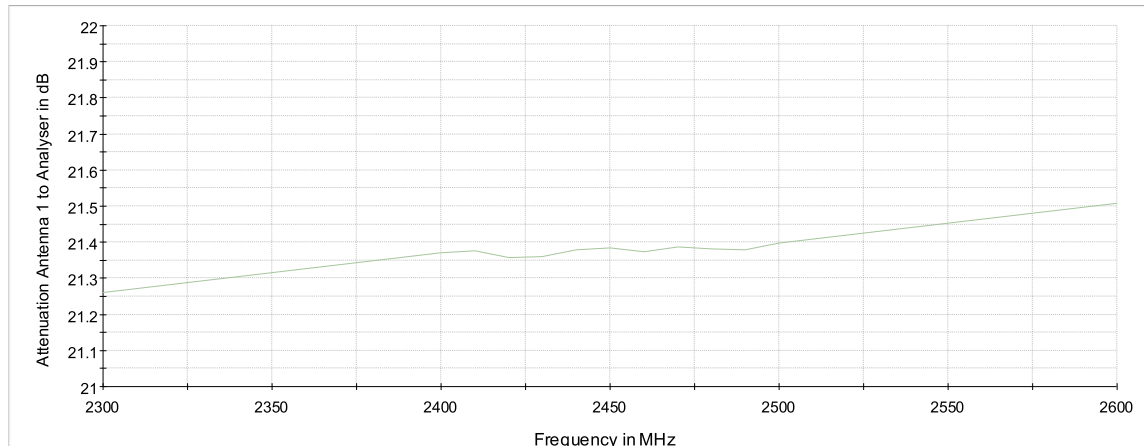
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyser settings:

- Lower Band Edge:
Measured range: 2310.0 MHz to 2483.5 MHz
- Upper Band Edge
Measured range: 2400.0 MHz to 2500 MHz
- Detector: Peak
- Resolution Bandwidth (RBW): 100 kHz
- Video Bandwidth (VBW): 300 kHz
- Sweptime: Auto
- Sweeps: Till stable (min. 300, max. 15000)
- Trace: Maxhold



TS8997; Band Edge Conducted



Attenuation of the measurement path

5.7.2 TEST REQUIREMENTS / LIMITS

FCC Part 15.247 (d)

"In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. ...

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c))."

For the conducted measurement the RF power at the band edge shall be "at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power..."

5.7.3 TEST PROTOCOL

Ambient temperature: 23 °C
 Air Pressure: 1006 hPa
 Humidity: 53 %
 BT GFSK

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
0	2402	2400.0	-46.7	PEAK	100	7.9	-12.1	34.6
78	2480	2483.5	-45.9	PEAK	100	6.1	-13.9	32.0

BT π/4 DQPSK

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
0	2402	2400.0	-47.0	PEAK	100	3.0	-17.0	30.0
78	2480	2483.5	-46.7	PEAK	100	3.5	-16.5	30.2

BT 8-DPSK

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
0	2402	2400.0	-45.6	PEAK	100	3.8	-16.2	29.4
78	2480	2483.5	-45.2	PEAK	100	3.8	-16.2	29.0

BT LE 1 Mbit/s

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
0	2402	2400.0	-48.2	PEAK	100	8.0	-12.0	36.2
39	2480	2483.5	-51.3	PEAK	100	7.1	-12.9	38.4

BT LE 2 Mbit/s

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
0	2402	2400.0	-22.8	PEAK	100	7.1	-12.9	9.9
39	2480	2483.5	-48.5	PEAK	100	7.0	-13.0	35.5

WLAN b-Mode; 20 MHz; 1 Mbit/s

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
1	2412	2400.0	-38.9	PEAK	100	7.9	-22.1	16.8
11	2462	2483.5	-47.3	PEAK	100	8.3	-21.7	25.6

WLAN g-Mode; 20 MHz; 6 Mbit/s

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
1	2412	2400.0	-32.6	PEAK	100	3.9	-26.1	6.5
11	2462	2483.5	-41.0	PEAK	100	4.1	-25.9	15.1

WLAN n-Mode; 20 MHz; MCS0

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
1	2412	2400.0	-33.3	PEAK	100	2.9	-27.1	6.2
11	2462	2483.5	-43.5	PEAK	100	3.2	-26.8	16.7

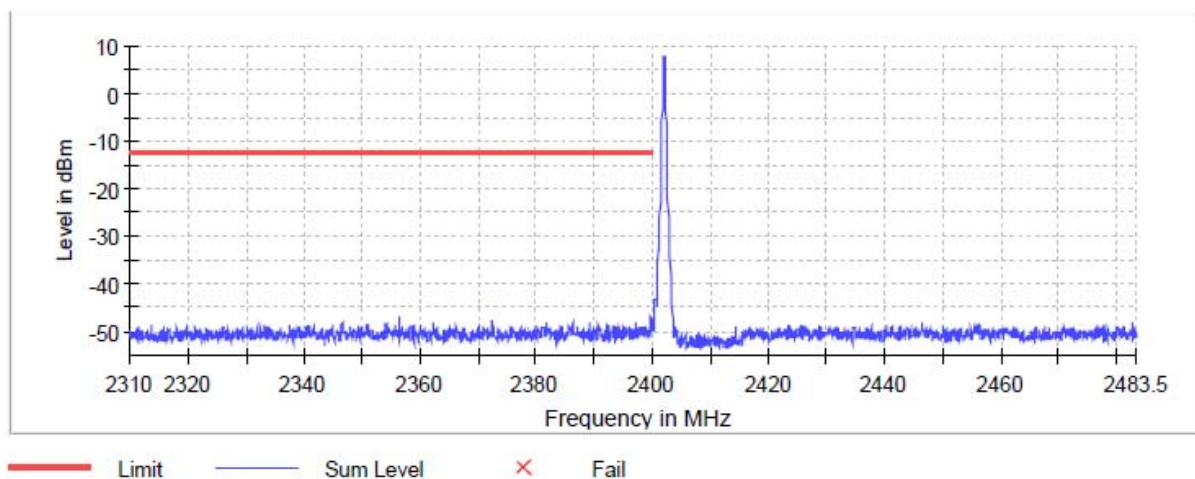
WLAN n-Mode; 40 MHz; MCS0

Channel No.	Channel Center Frequency [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Ref. Level [dBm]	Limit [dBm]	Margin to Limit [dB]
3	2422	2400.0	-36.9	PEAK	100	-0.4	-30.4	6.5
9	2452	2483.5	-36.0	PEAK	100	0.6	-29.4	6.6

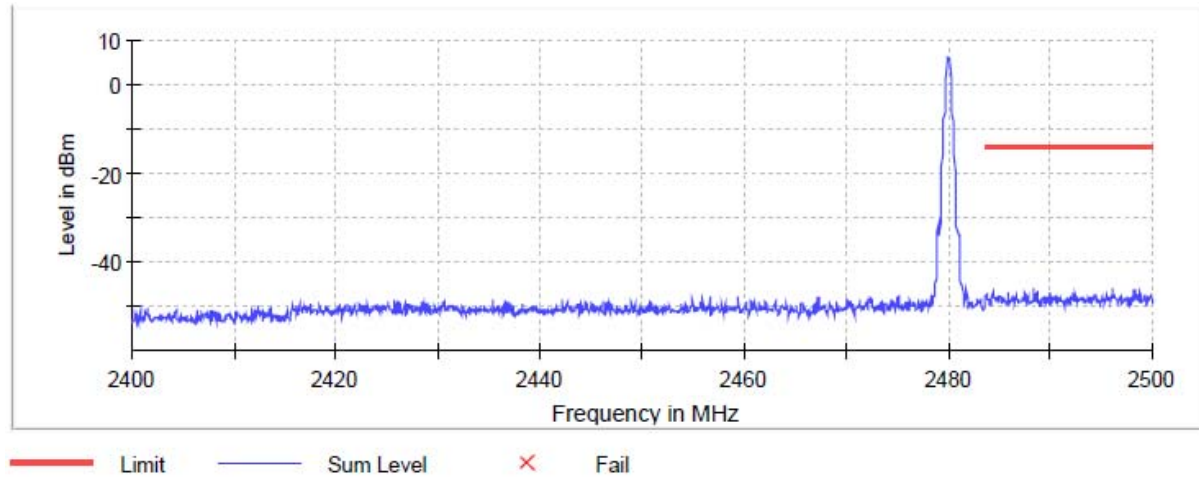
Remark: Please see next sub-clause for the measurement plot.

5.7.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

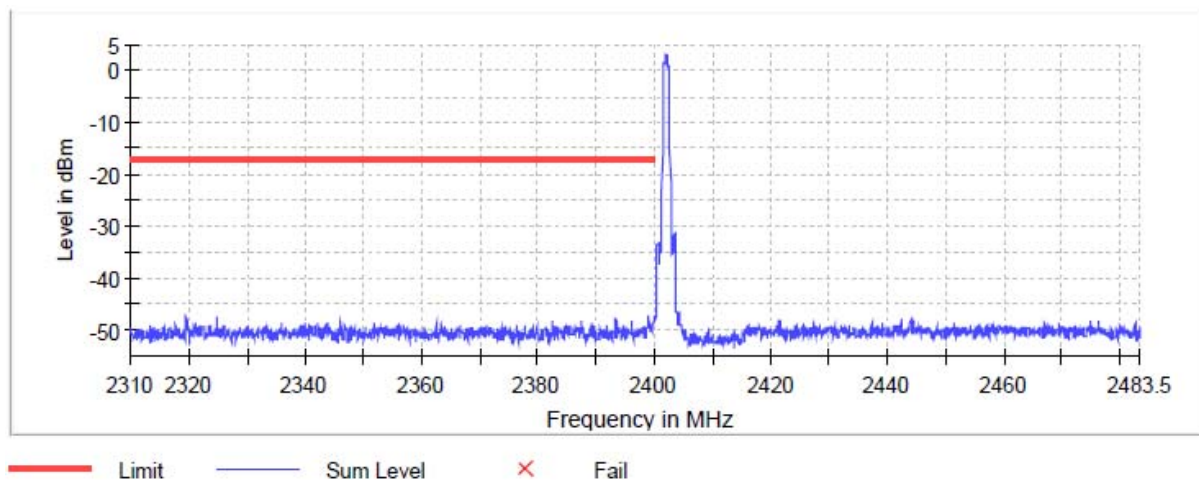
Radio Technology = Bluetooth BDR, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



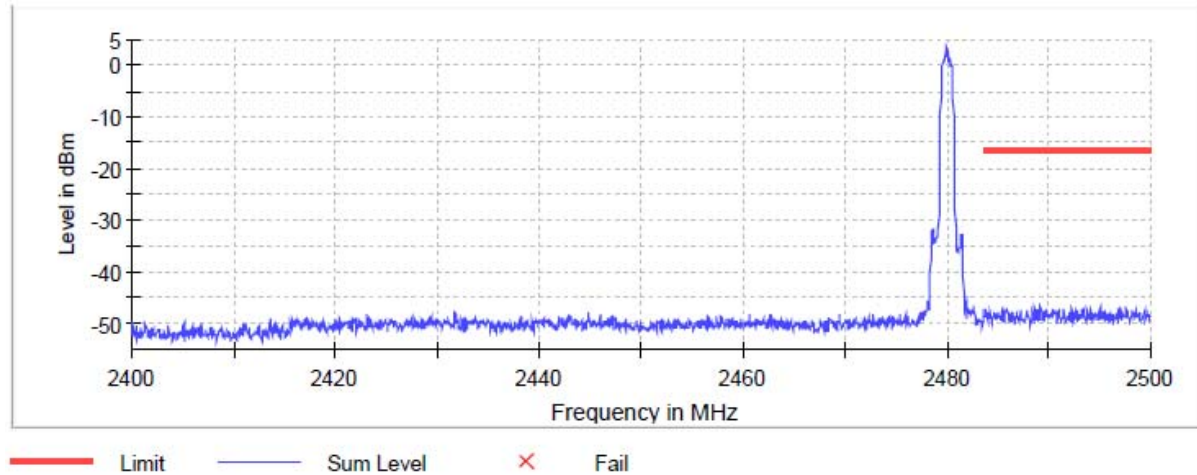
Radio Technology = Bluetooth BDR, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



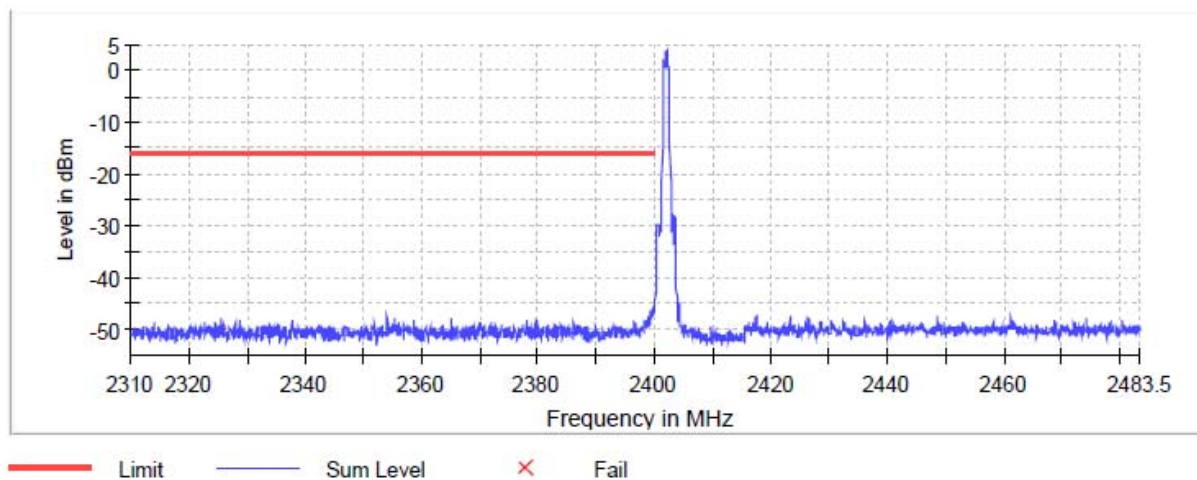
Radio Technology = Bluetooth EDR 2, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



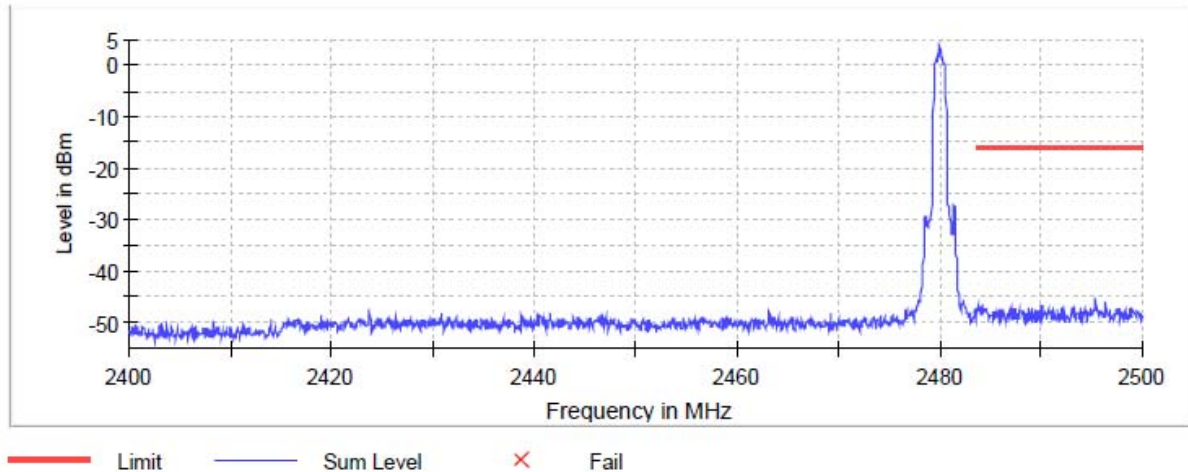
Radio Technology = Bluetooth EDR 2, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



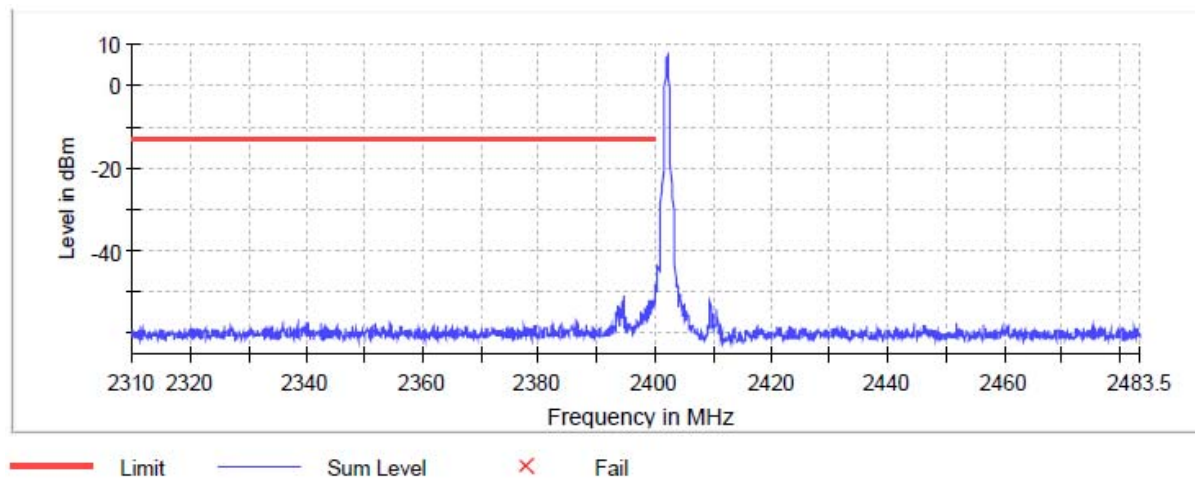
Radio Technology = Bluetooth EDR 3, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



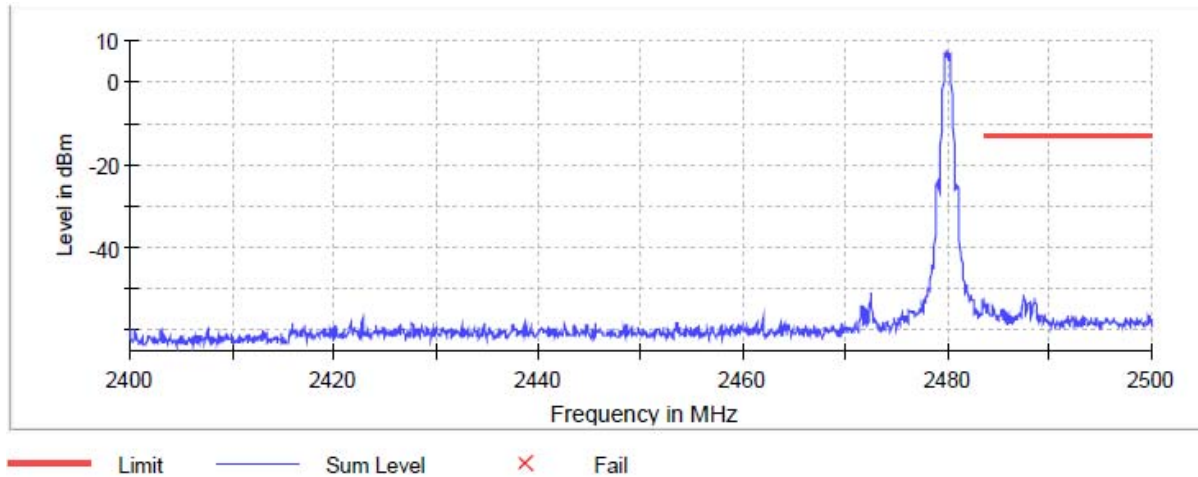
Radio Technology = Bluetooth EDR 3, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



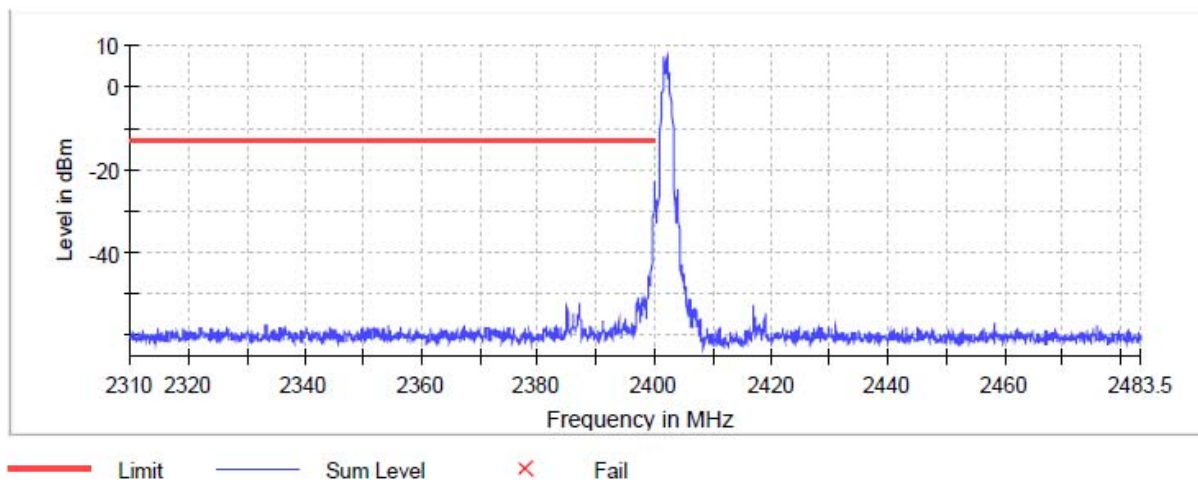
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



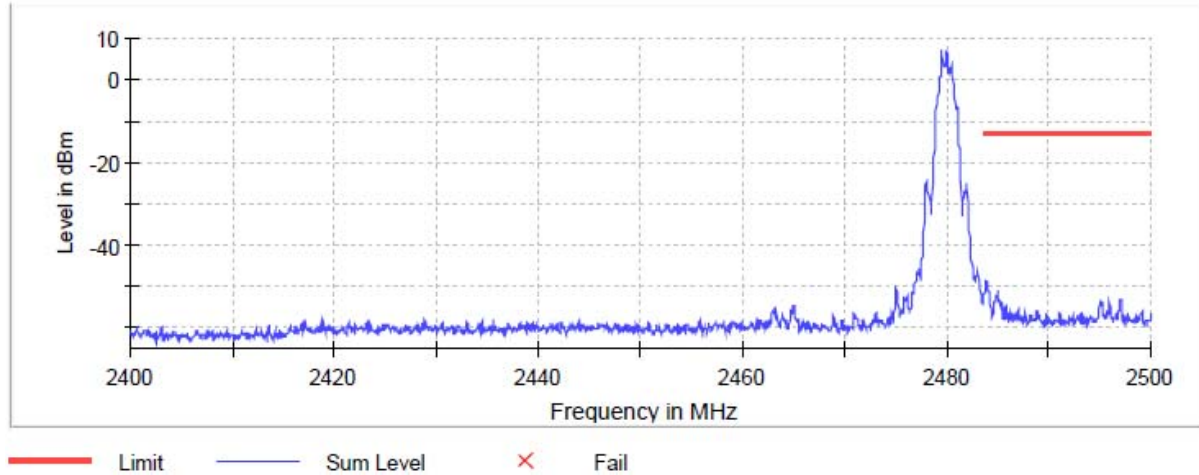
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



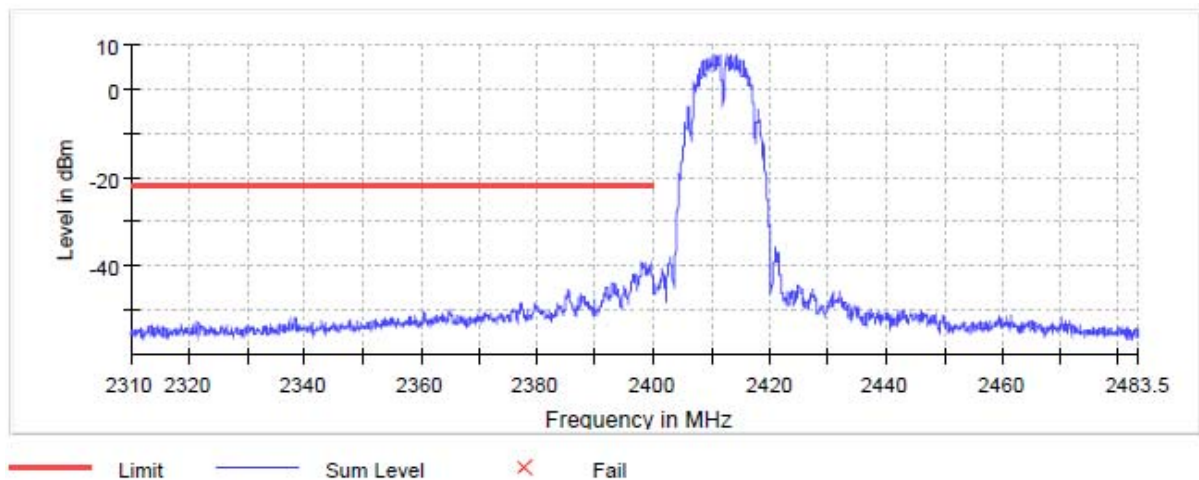
Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



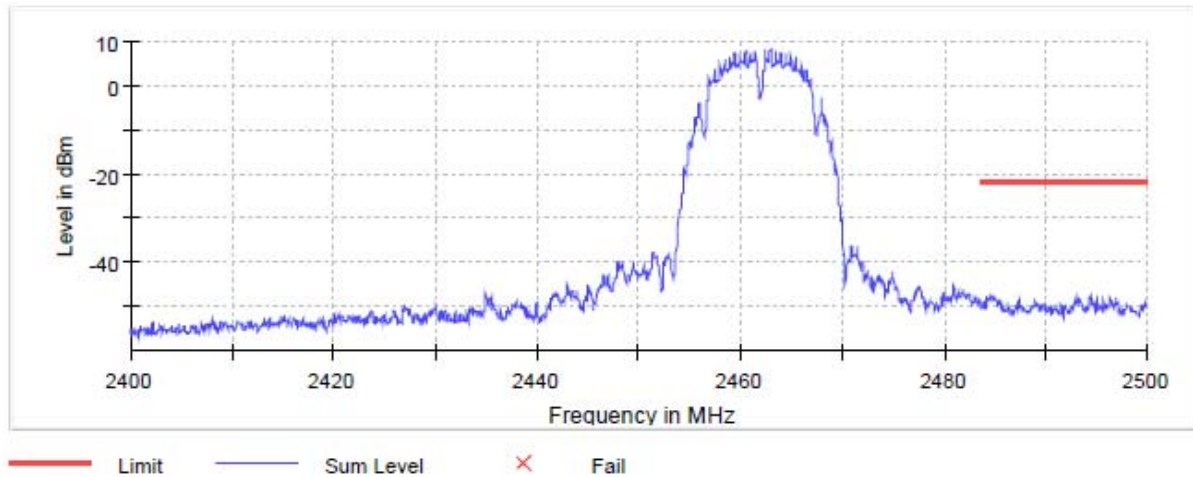
Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



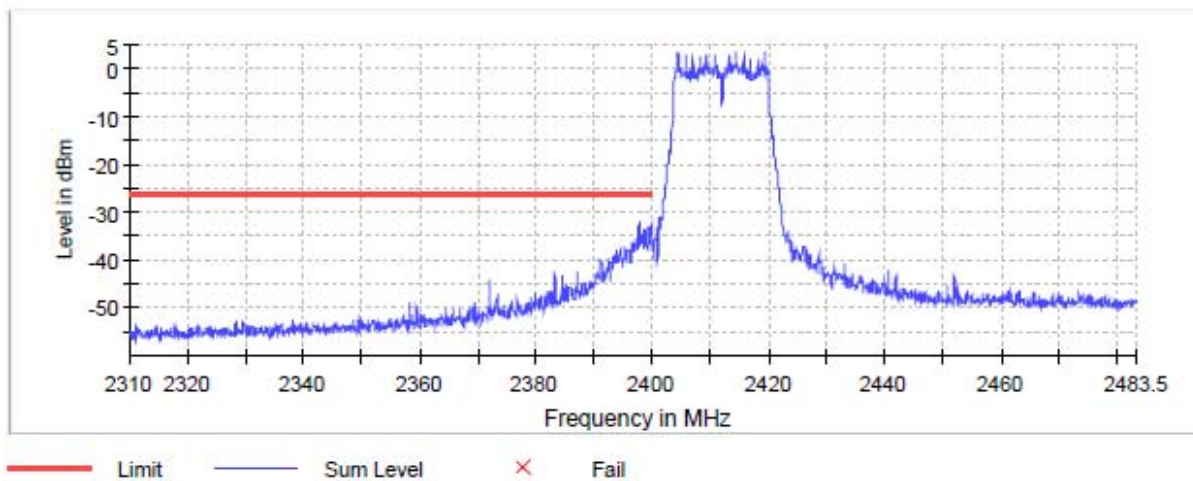
Radio Technology = WLAN b, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



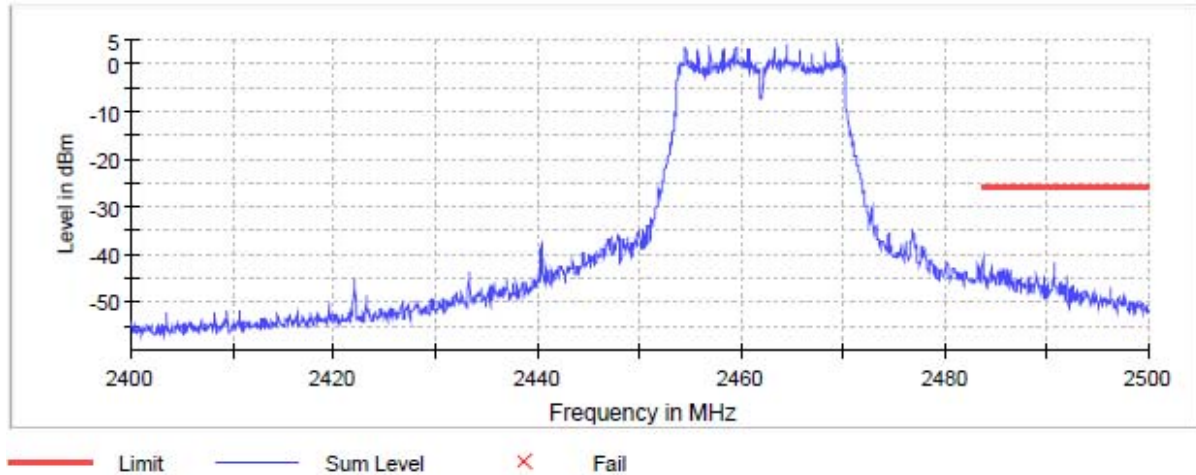
Radio Technology = WLAN b, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



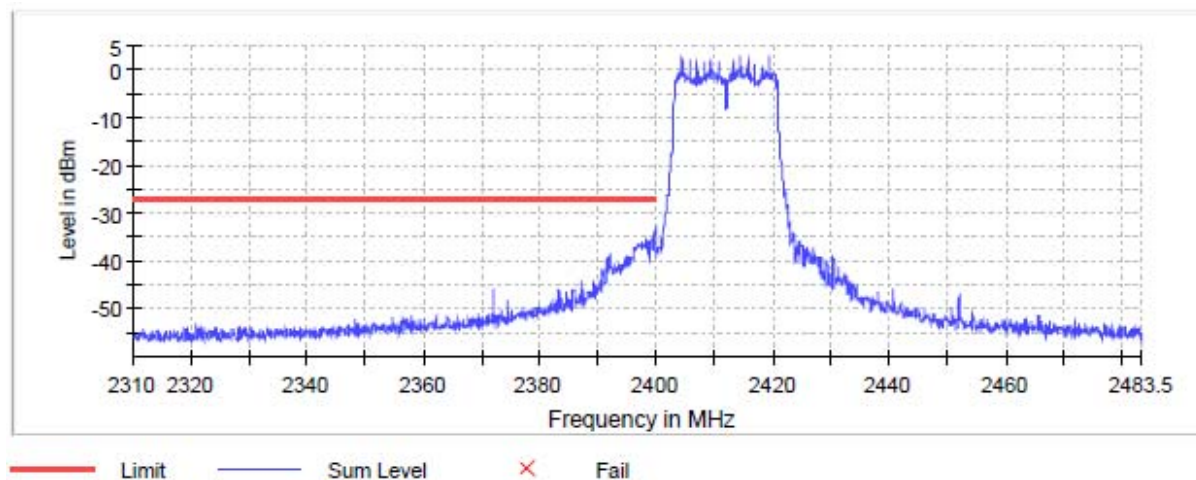
Radio Technology = WLAN g, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



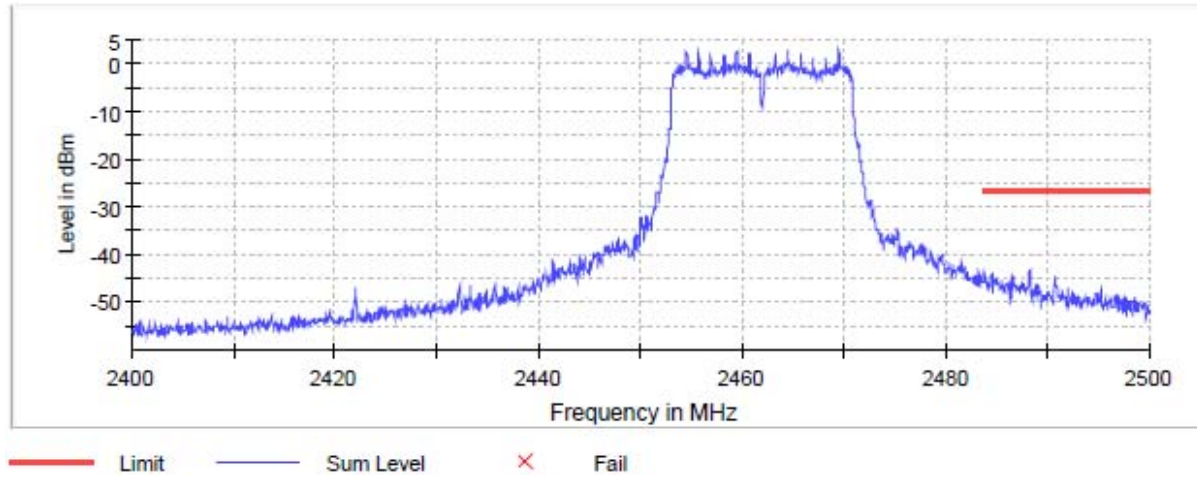
Radio Technology = WLAN g, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



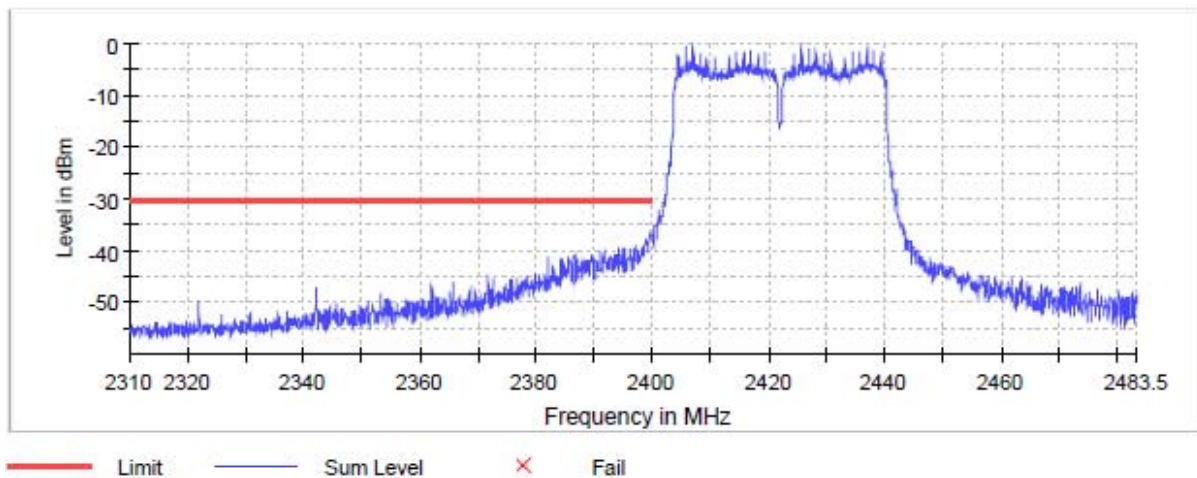
Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



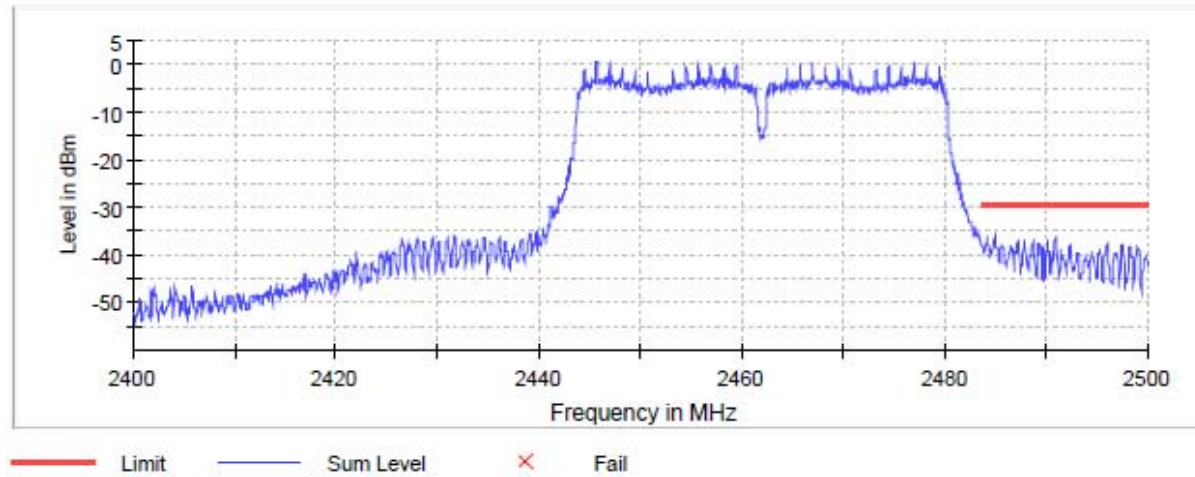
Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Band Edge = low
(S01_166_AB01)



Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Band Edge = high
(S01_166_AB01)



5.7.5 TEST EQUIPMENT USED

- R&S TS8997

5.8 BAND EDGE COMPLIANCE RADIATED

Standard **FCC Part 15 Subpart C**

The test was performed according to:
ANSI C63.10

5.8.1 TEST DESCRIPTION

Radiated Measurement with integral antenna or 50 Ohm termination at antenna port

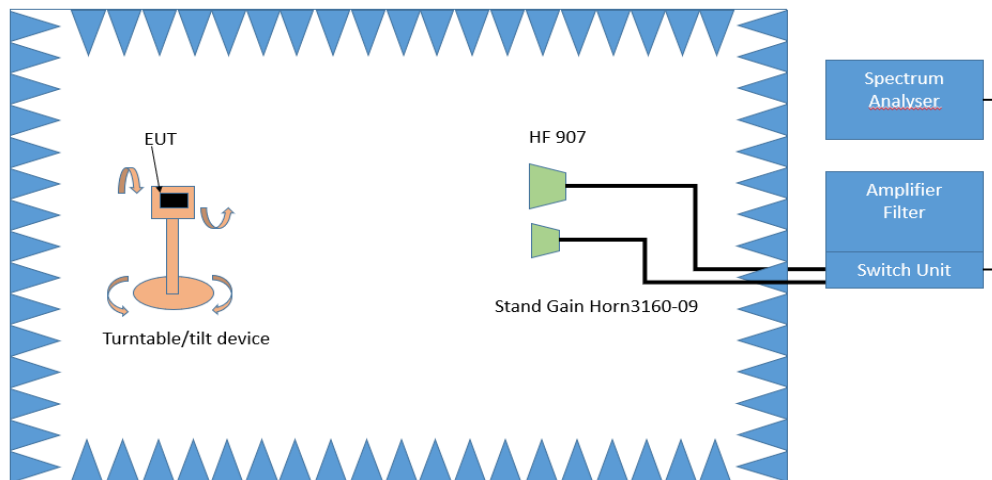
The test set-up was made in accordance to the general provisions of ANSI C63.10 in a typical installation configuration. The measurements were performed according the following sub-chapter of ANSI C63.10:

- Chapter 6.10.5

The Equipment Under Test (EUT) was set up on a non-conductive support (tilt device) at 1.5 m height in the fully-anechoic chamber.

All steps were performed with one height (1.5 m) of the receiving antenna only (procedure according ANSI C63.10, chapter 6.6.5).

3. Measurement above 1 GHz



Test Setup; Spurious Emission Radiated (FAC), 1 GHz-26.5 GHz

Step 1:

The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 90 °.

The turn table step size (azimuth angle) for the preliminary measurement is 45 °.

Spectrum analyser settings:

- Detector: Peak, Average
- RBW = 1 MHz
- VBW = 3 MHz

Step 2:

The turn table azimuth will slowly vary by $\pm 22.5^\circ$.

The elevation angle will slowly vary by $\pm 45^\circ$

Spectrum analyser settings:

- Detector: Peak