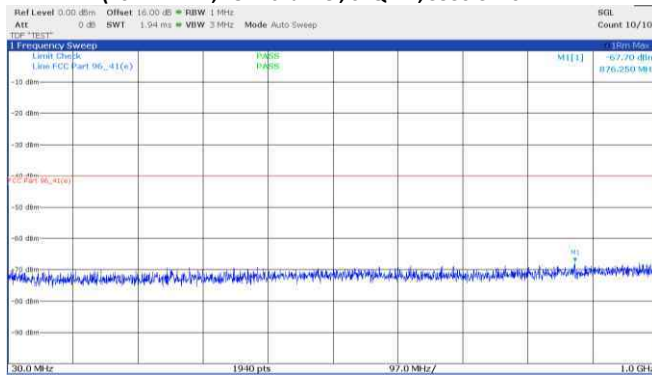


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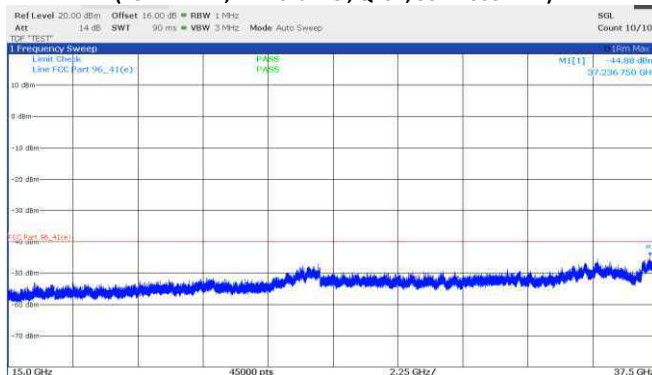
Testing data
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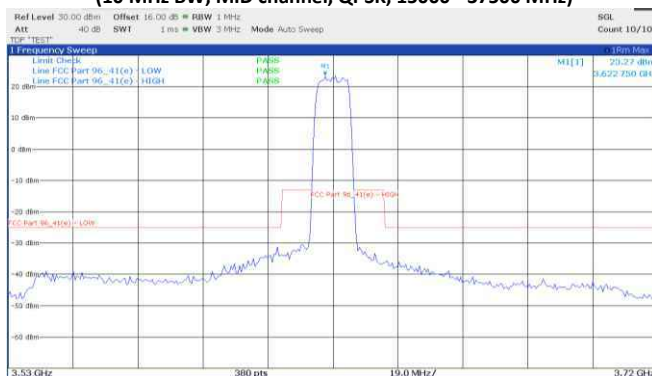
(10 MHz BW, LOW channel, 64QAM, 3530-3720 MHz)



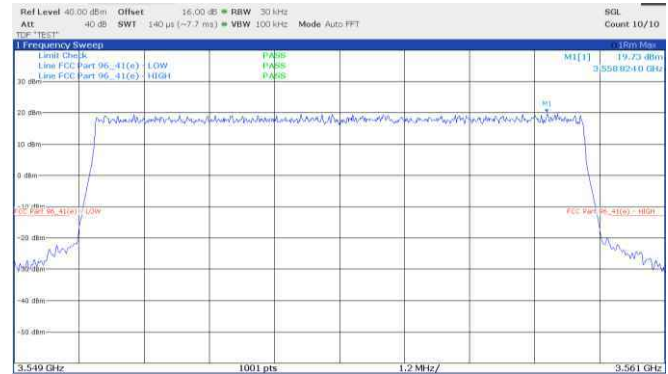
(10 MHz BW, MID channel, QPSK, 30 - 1000 MHz)



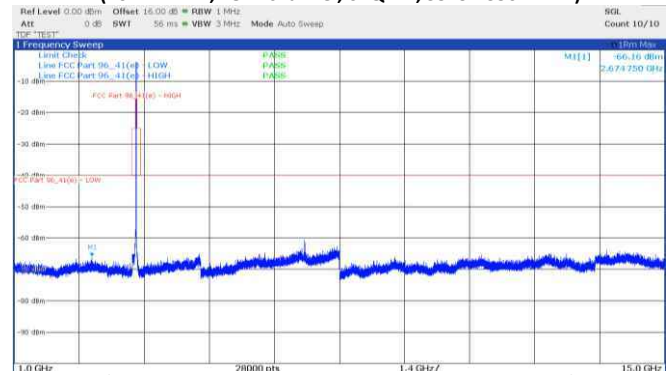
(10 MHz BW, MID channel, QPSK, 15000 - 37500 MHz)



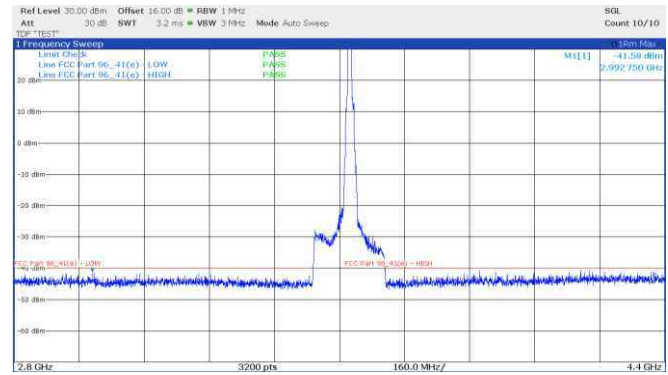
(10 MHz BW, MID channel, QPSK, 3530-3720 MHz)



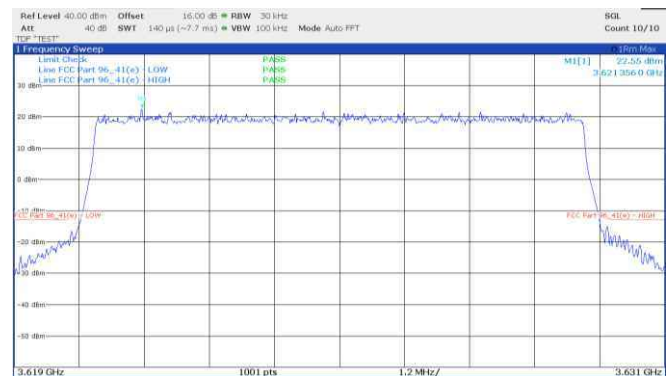
(10 MHz BW, LOW channel, 64QAM, 3549 - 3561 MHz)



(10 MHz BW, MID channel, QPSK, 1000 - 15000 MHz)



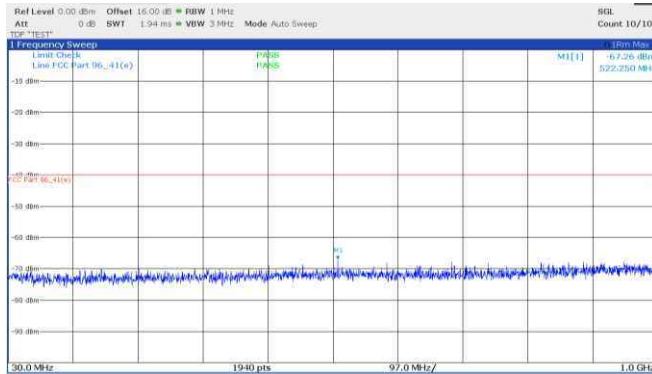
(10 MHz BW, MID channel, QPSK, 2800 - 4400 MHz)



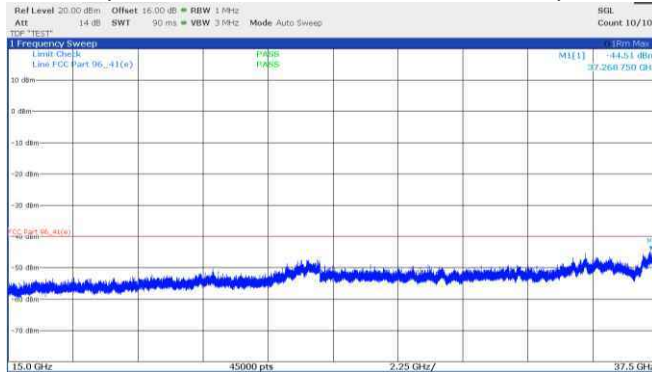
(10 MHz BW, MID channel, QPSK, 3619 - 3631 MHz)

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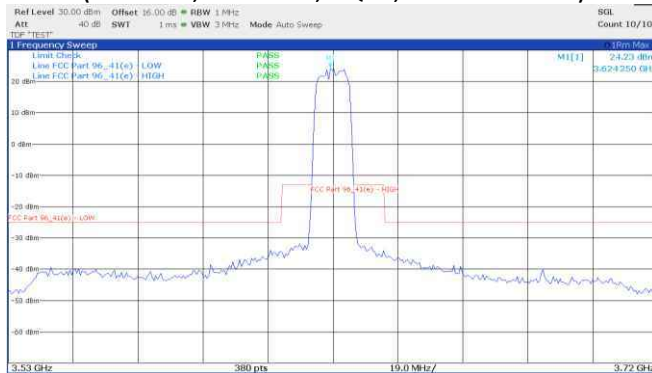
Testing data
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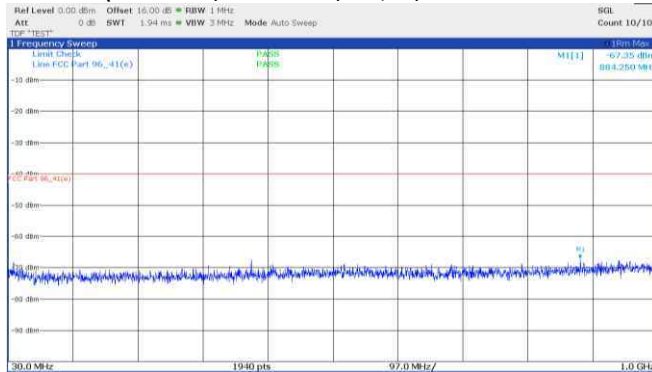
(10 MHz BW, MID channel, 16QAM, 30 – 1000 MHz)



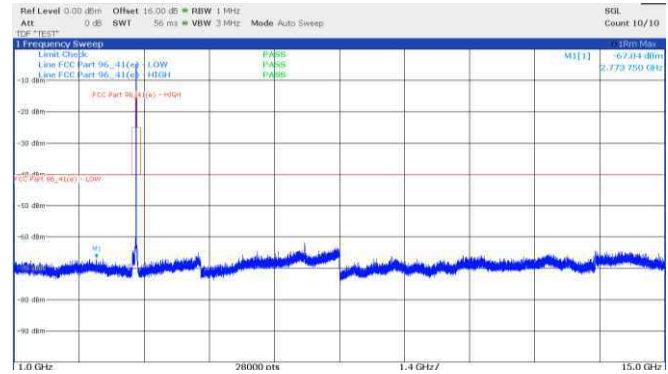
(10 MHz BW, MID channel, 16QAM, 15000 – 37500 MHz)



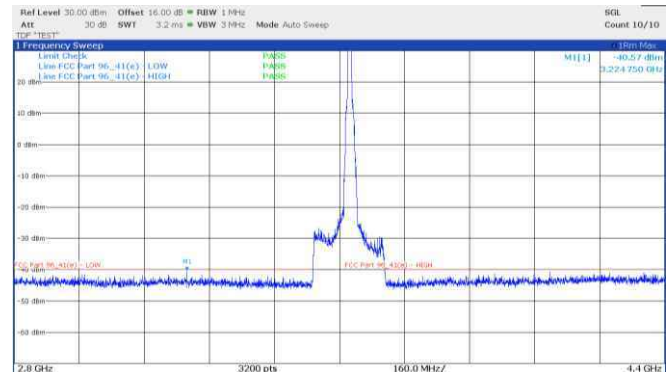
(10 MHz BW, MID channel, 16QAM, 3530-3720 MHz)



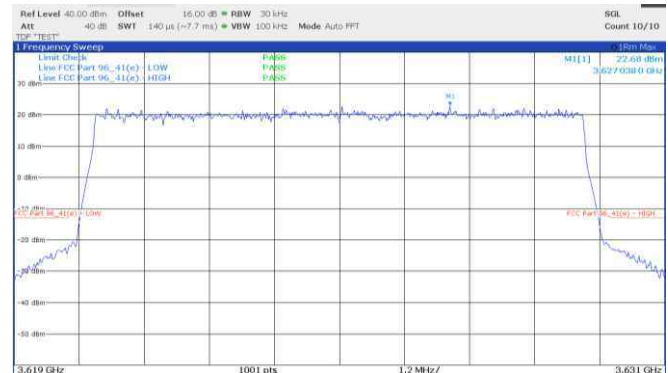
(10 MHz BW, MID channel, 64QAM, 30 – 1000 MHz)



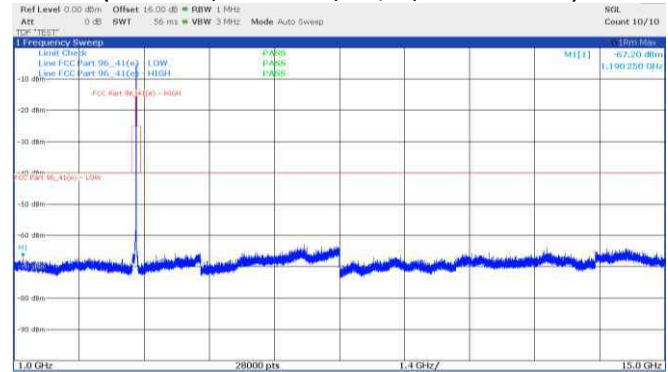
(10 MHz BW, MID channel, 16QAM, 1000 – 15000 MHz)



(10 MHz BW, MID channel, 16QAM, 2800 – 4400 MHz)



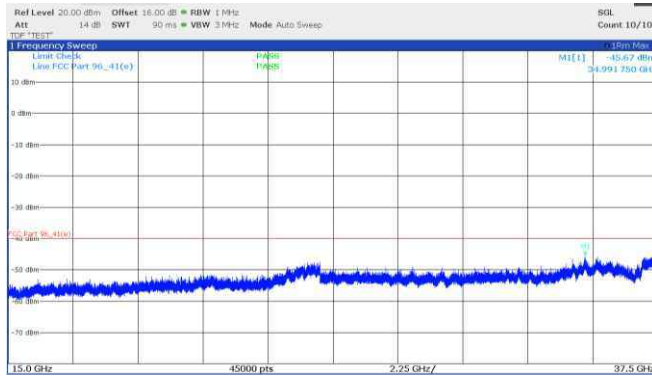
(10 MHz BW, MID channel, 16QAM, 3619 – 3631 MHz)



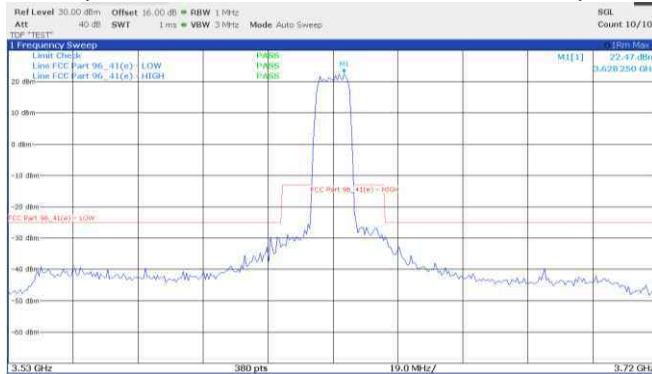
(10 MHz BW, MID channel, 64QAM, 1000 – 15000 MHz)

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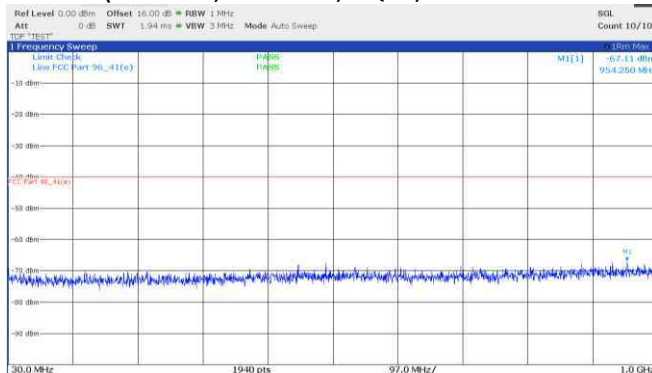
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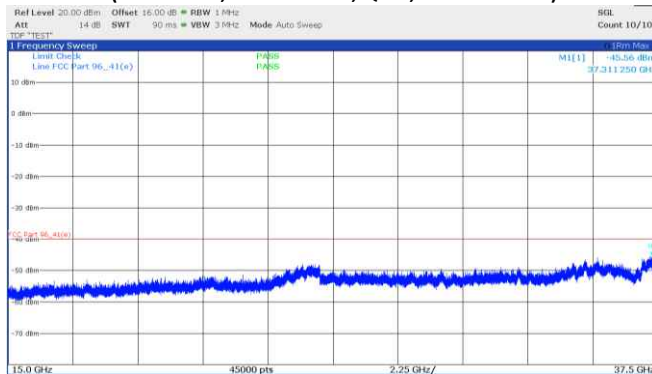
(10 MHz BW, MID channel, 64QAM, 15000 – 37500 MHz)



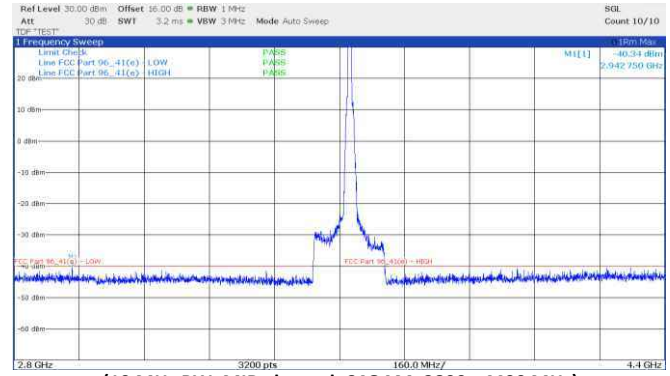
(10 MHz BW, MID channel, 64QAM, 3530-3720 MHz)



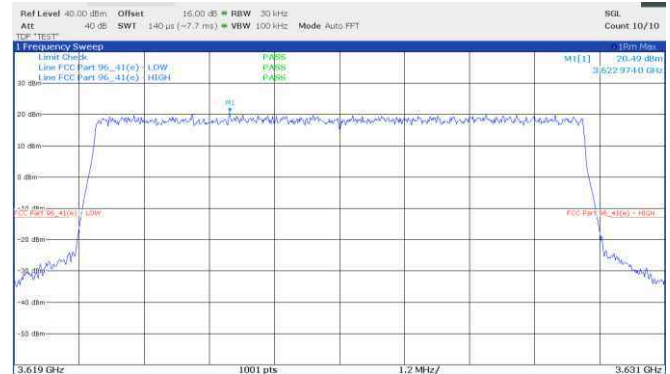
(10 MHz BW, HIGH channel, QPSK, 30 – 1000 MHz)



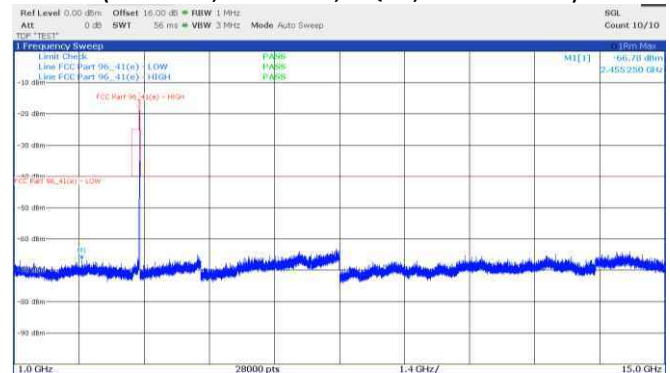
(10 MHz BW, HIGH channel, QPSK, 15000 – 37500 MHz)



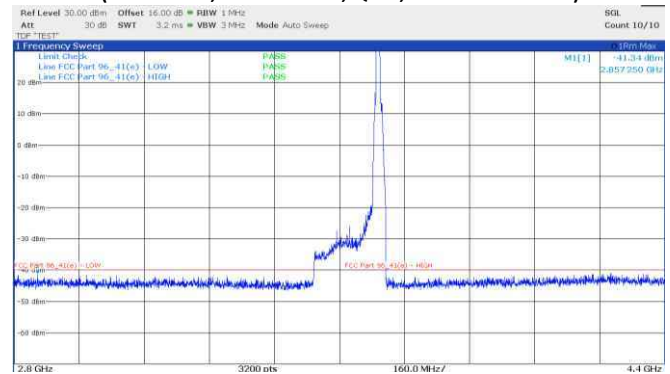
(10 MHz BW, MID channel, 64QAM, 2800 - 4400 MHz)



(10 MHz BW, MID channel, 64QAM, 3619 - 3631 MHz)



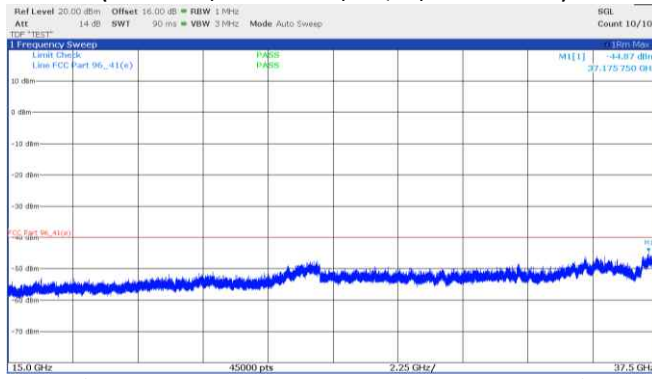
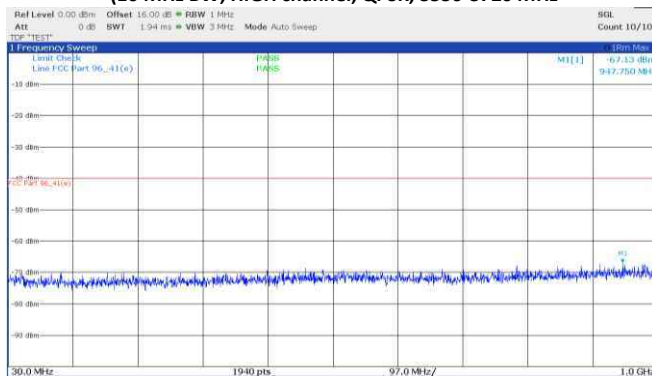
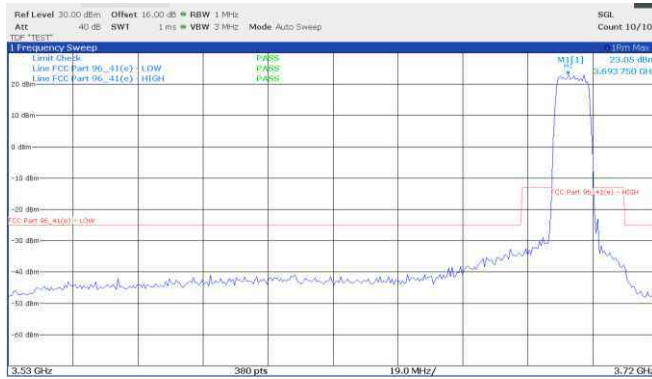
(10 MHz BW, HIGH channel, QPSK, 1000 – 15000 MHz)



(10 MHz BW, HIGH channel, QPSK, 2800 - 4400 MHz)

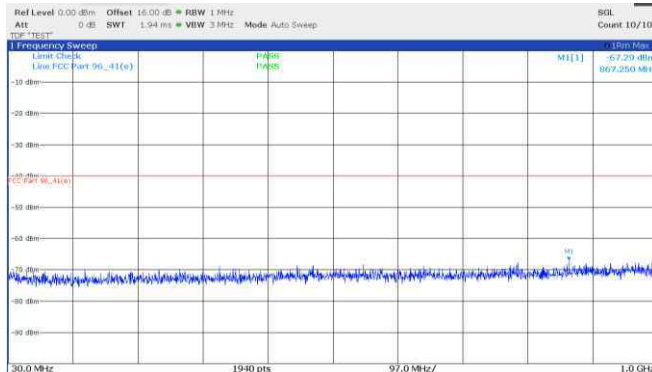
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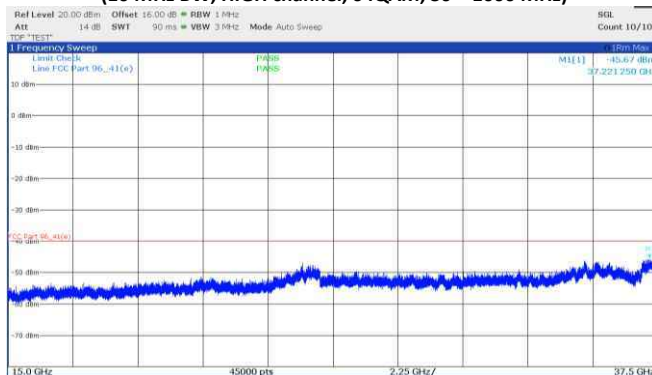


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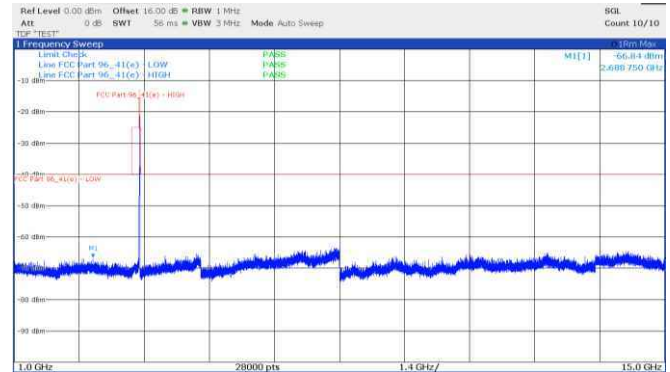
(10 MHz BW, HIGH channel, 64QAM, 30 – 1000 MHz)



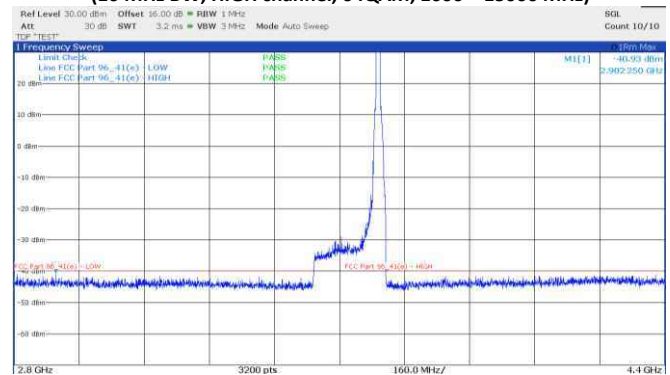
(10 MHz BW, HIGH channel, 64QAM, 15000 - 37500 MHz)



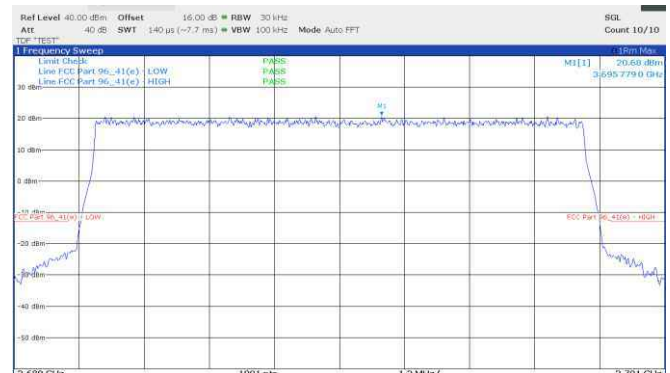
(10 MHz BW, HIGH channel, 64QAM, 3530-3720 MHz)



(10 MHz BW, HIGH channel, 64QAM, 1000 – 15000 MHz)



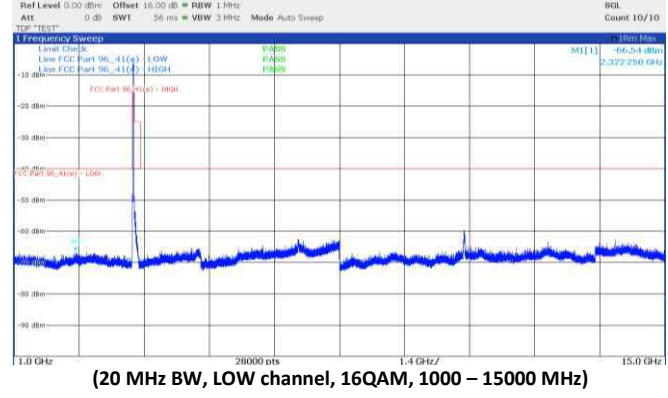
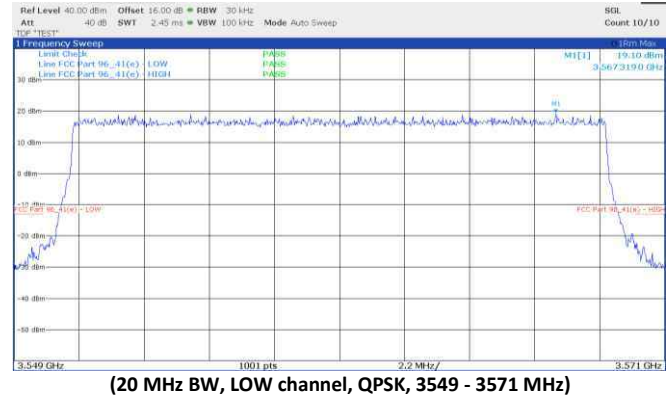
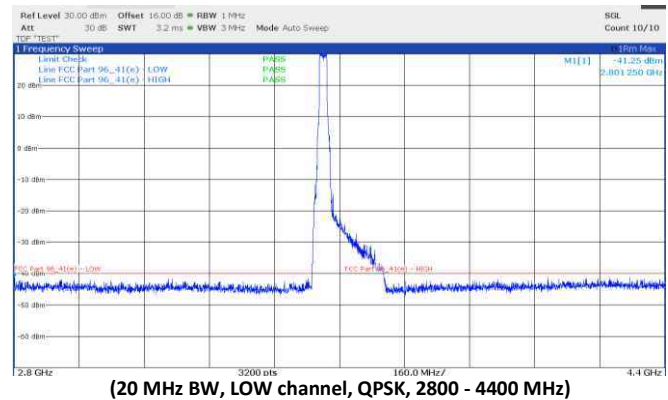
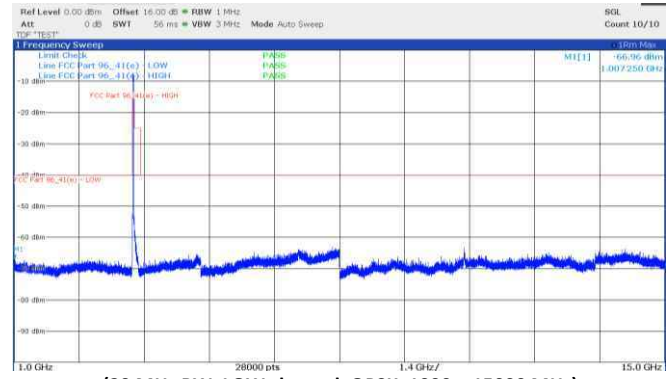
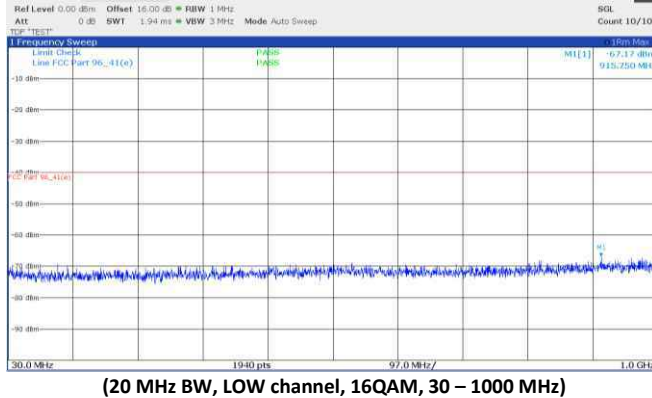
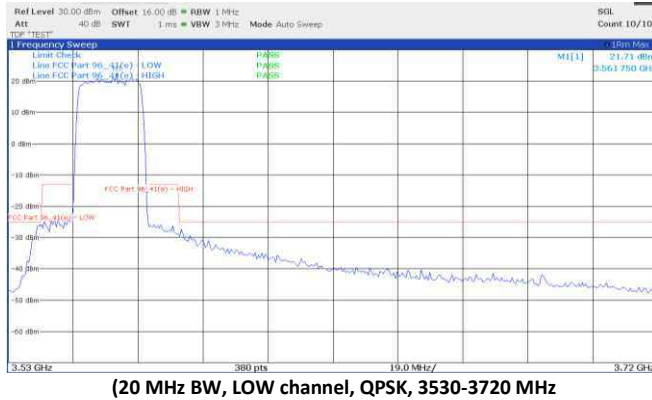
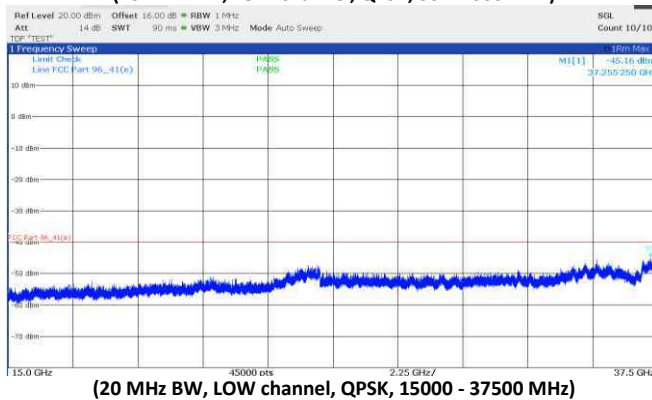
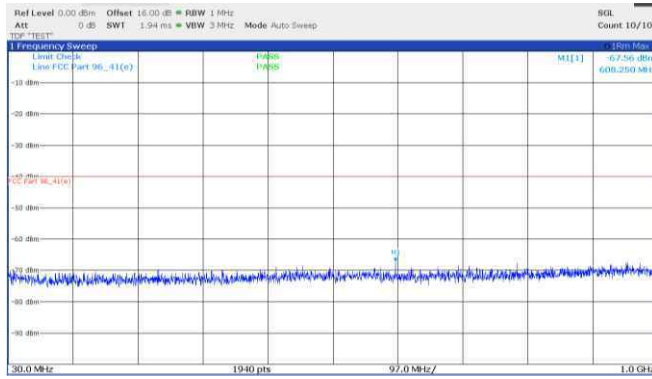
(10 MHz BW, HIGH channel, 64QAM, 2800 - 4400 MHz)



(10 MHz BW, HIGH channel, 64QAM, 3689 - 3701 MHz)

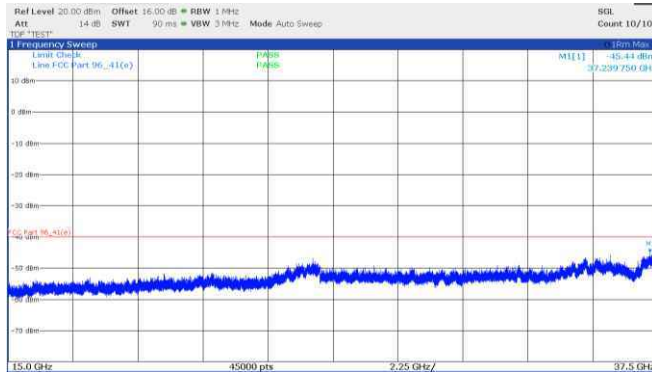
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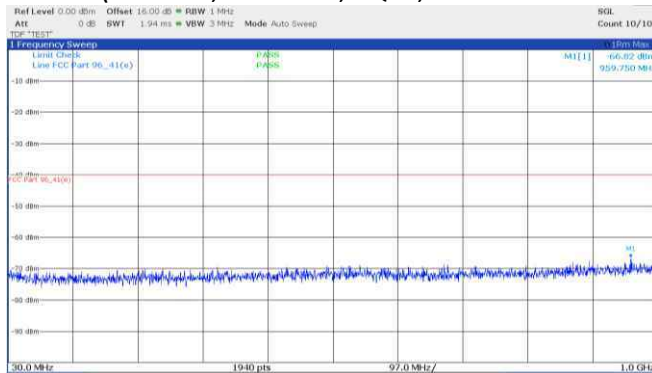
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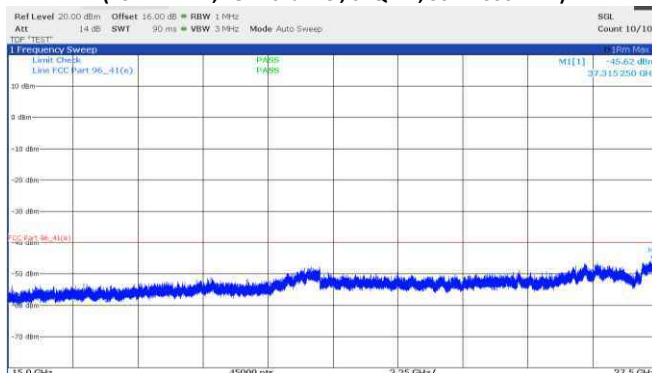
(20 MHz BW, LOW channel, 16QAM, 15000 - 37500 MHz)



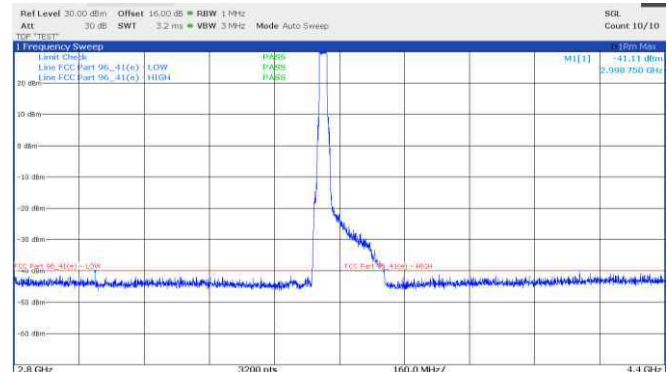
(20 MHz BW, LOW channel, 16QAM, 3530 - 3720 MHz)



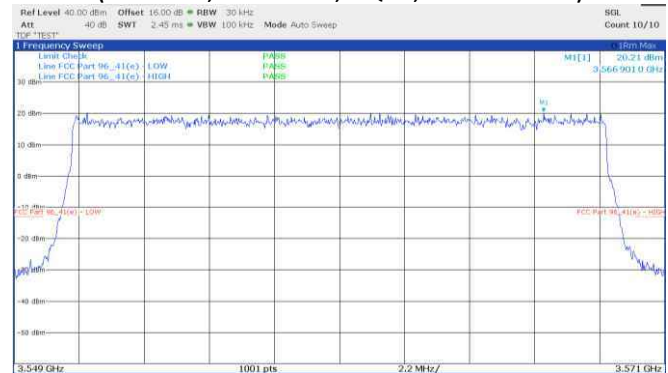
(20 MHz BW, LOW channel, 64QAM, 30 - 1000 MHz)



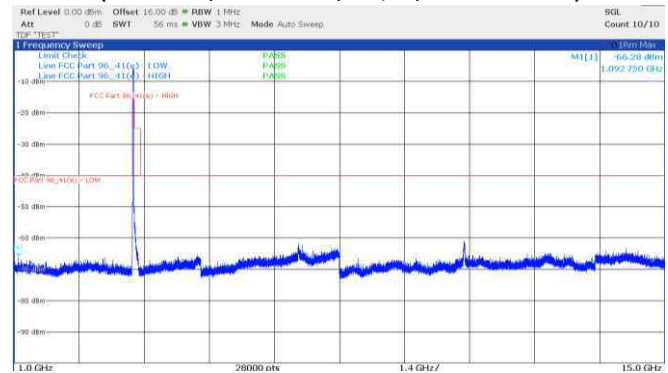
(20 MHz BW, LOW channel, 64QAM, 15000 - 37500 MHz)



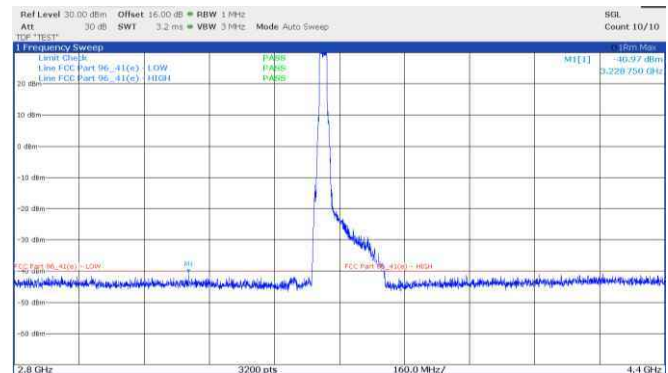
(20 MHz BW, LOW channel, 16QAM, 2800 - 4400 MHz)



(20 MHz BW, LOW channel, 16QAM, 3549 - 3571 MHz)



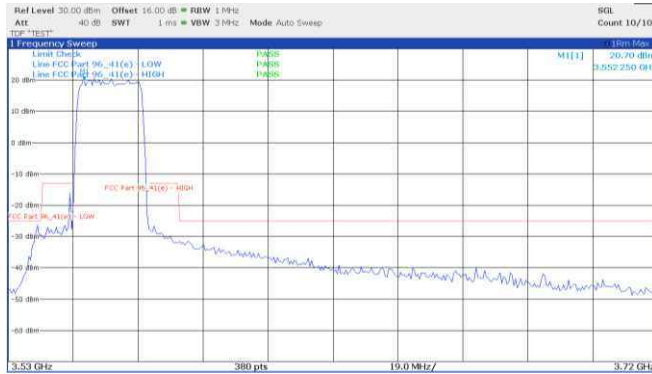
(20 MHz BW, LOW channel, 64QAM, 1000 - 15000 MHz)



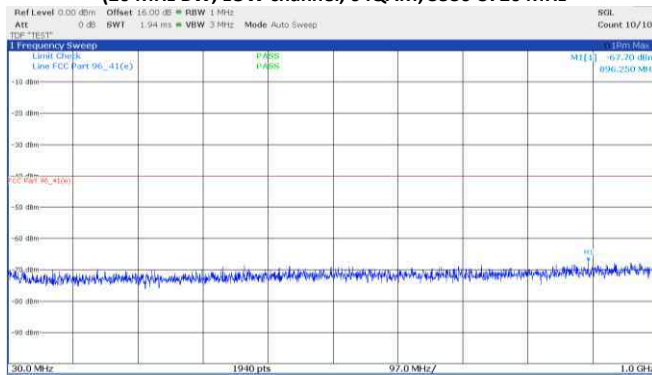
(20 MHz BW, LOW channel, 64QAM, 2800 - 4400 MHz)

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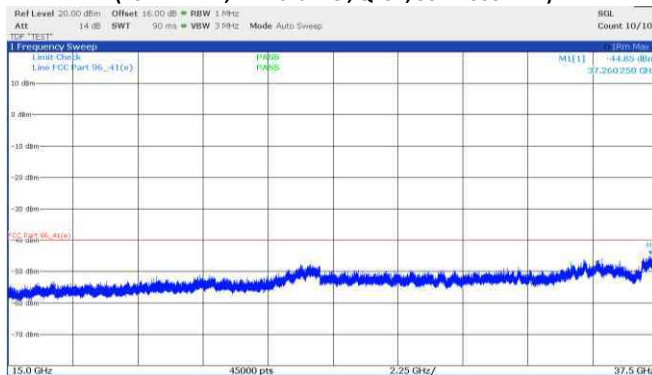
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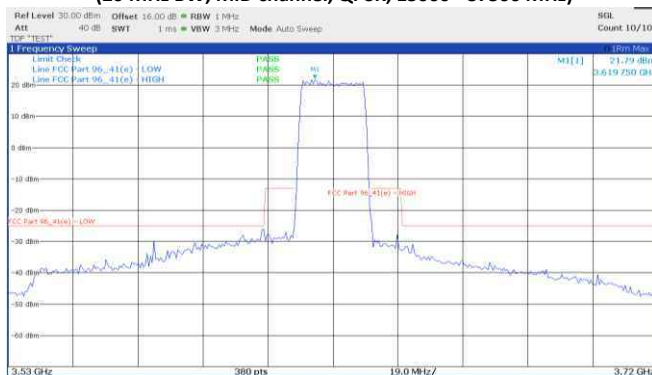
(20 MHz BW, LOW channel, 64QAM, 3530-3720 MHz)



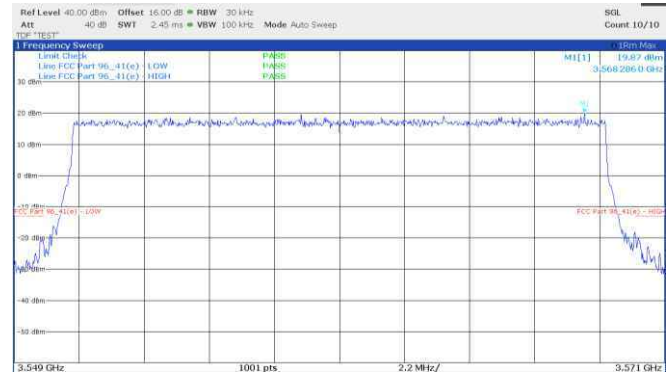
(20 MHz BW, MID channel, QPSK, 30 - 1000 MHz)



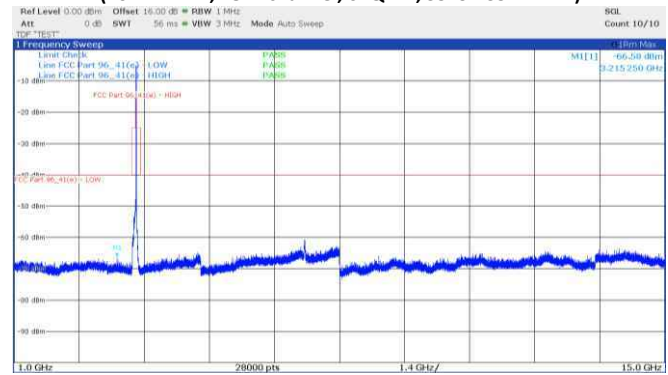
(20 MHz BW, MID channel, QPSK, 15000 - 37500 MHz)



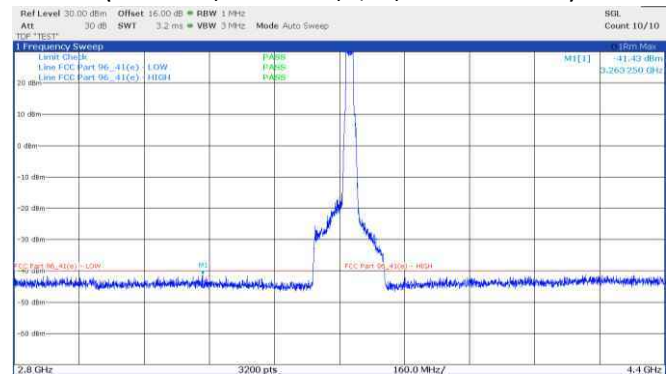
(20 MHz BW, MID channel, QPSK, 3530-3720 MHz)



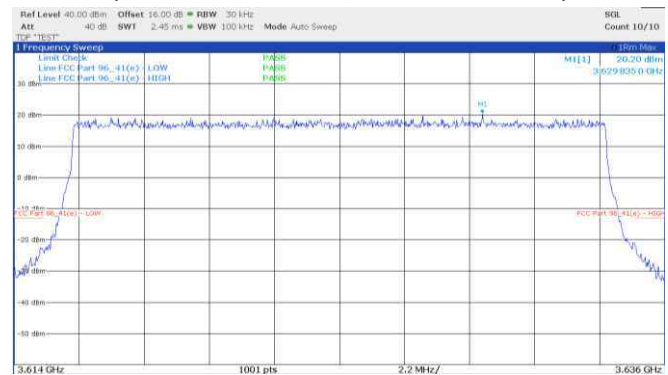
(20 MHz BW, LOW channel, 64QAM, 3549 - 3571 MHz)



(20 MHz BW, MID channel, QPSK, 1000 - 15000 MHz)



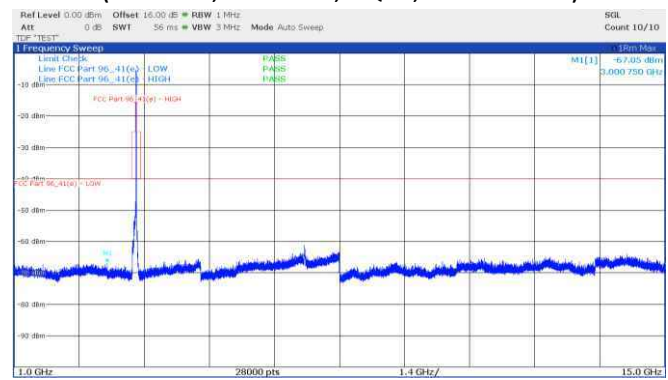
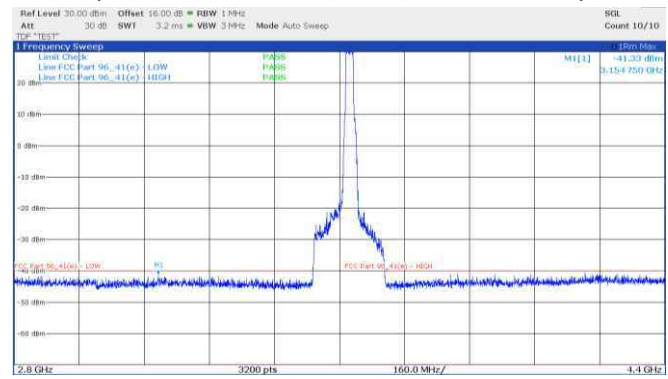
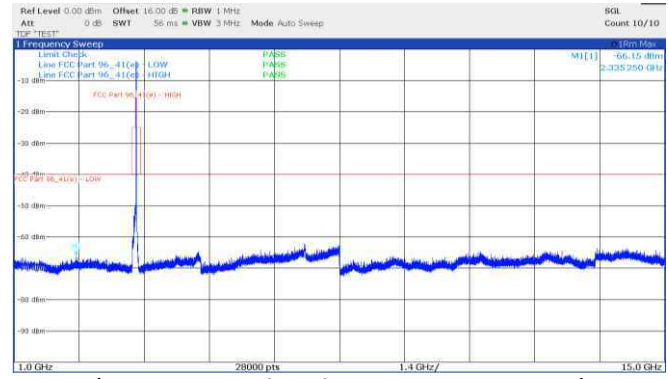
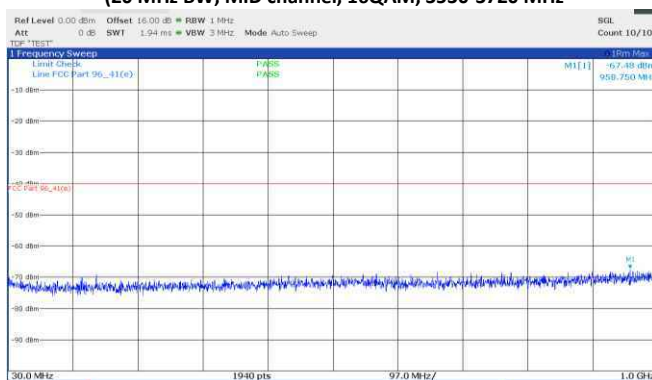
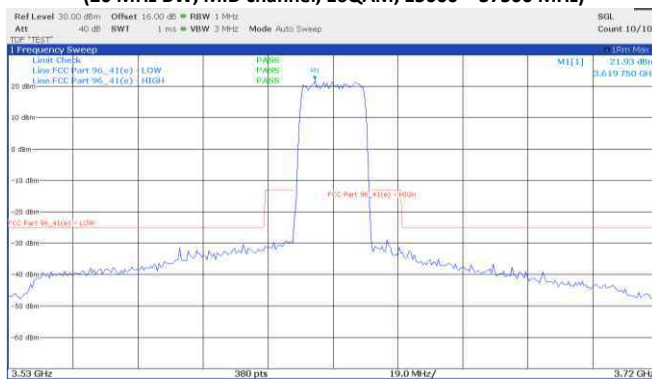
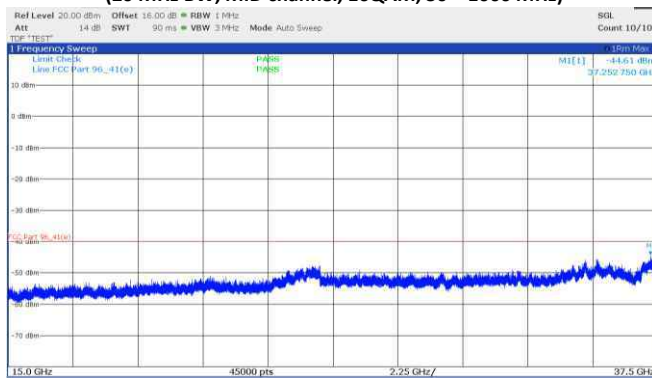
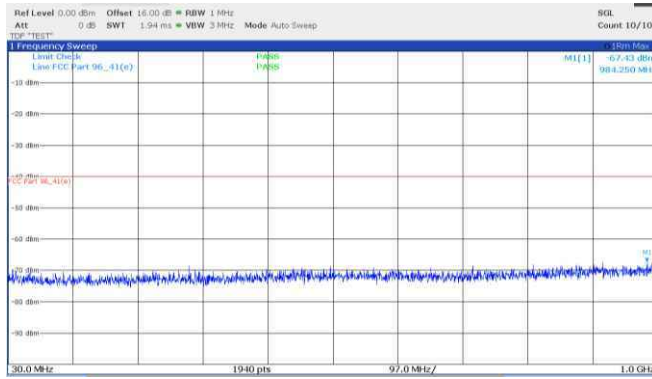
(20 MHz BW, MID channel, QPSK, 2800 - 4400 MHz)



(20 MHz BW, MID channel, QPSK, 3614 - 3636 MHz)

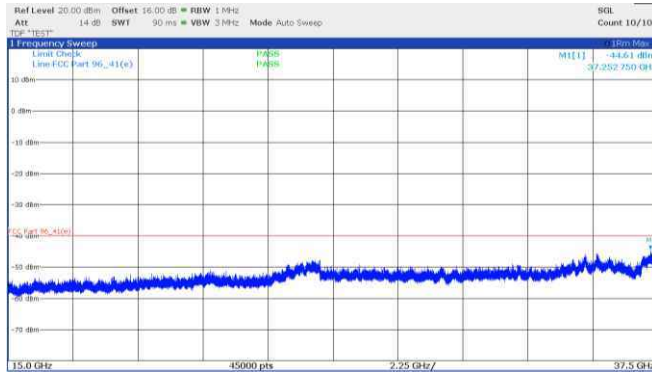
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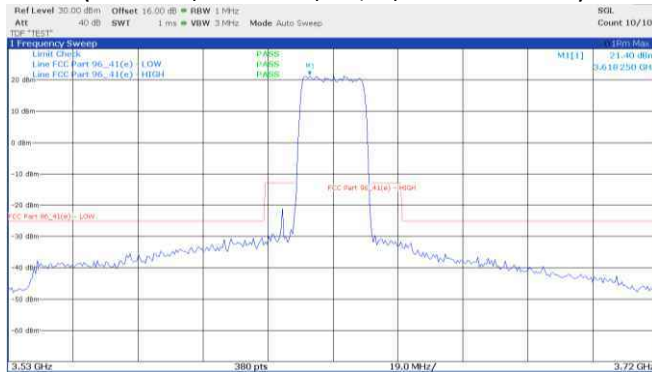


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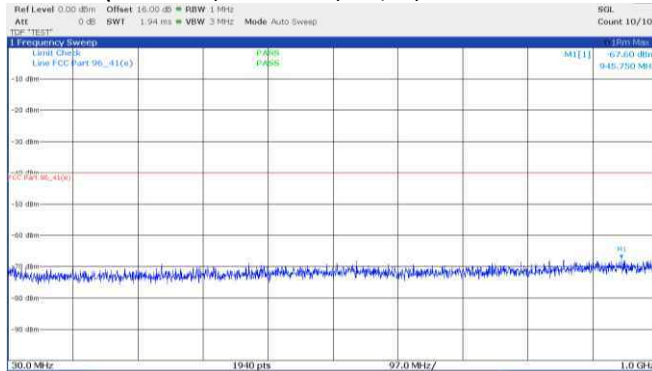
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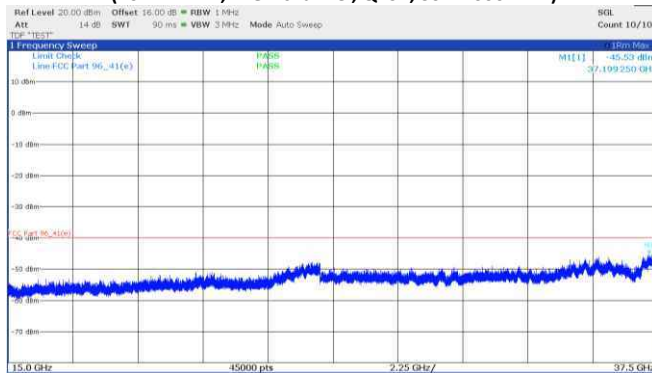
(20 MHz BW, MID channel, 64QAM, 15000 - 37500 MHz)



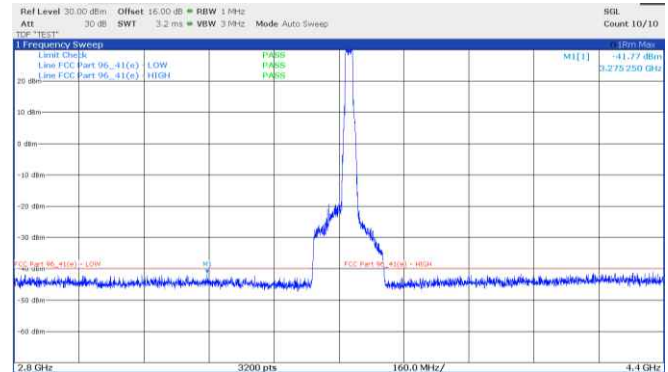
(20 MHz BW, MID channel, 64QAM, 3530-3720 MHz)



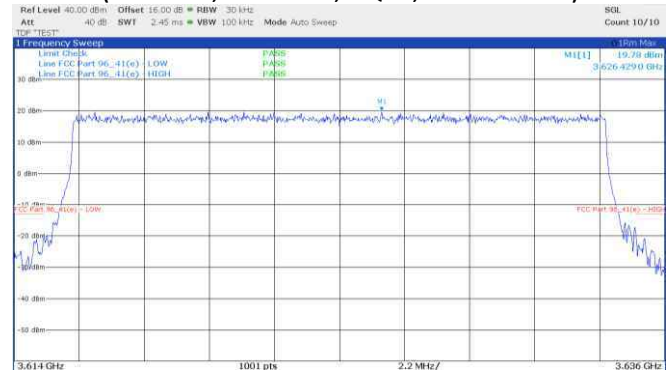
(20 MHz BW, HIGH channel, QPSK, 30 - 1000 MHz)



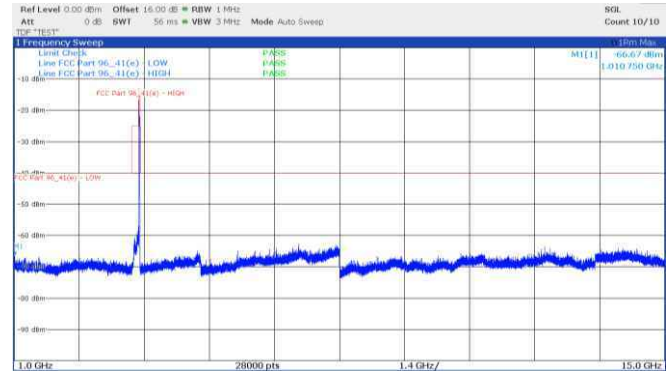
(20 MHz BW, HIGH channel, QPSK, 15000 - 37500 MHz)



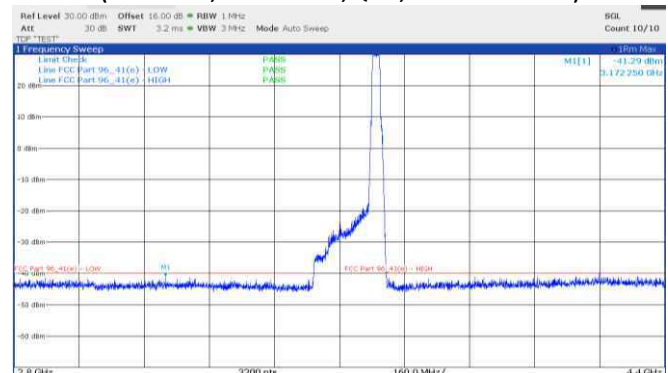
(20 MHz BW, MID channel, 64QAM, 2800 - 4400 MHz)



(20 MHz BW, MID channel, 64QAM, 3614 - 3636 MHz)



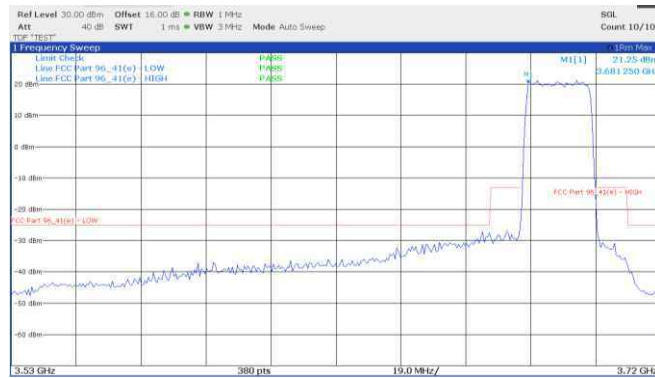
(20 MHz BW, HIGH channel, QPSK, 1000 - 15000 MHz)



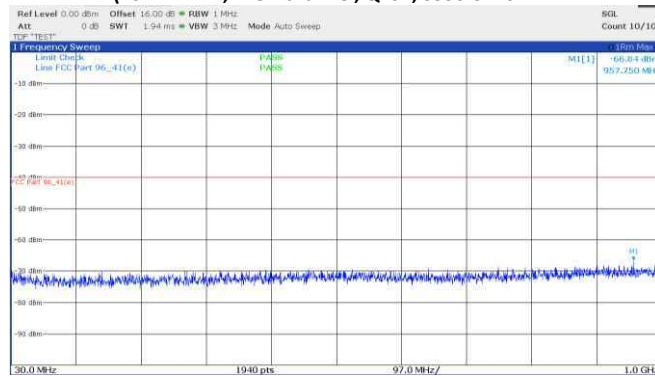
(20 MHz BW, HIGH channel, QPSK, 2800 - 4400 MHz)

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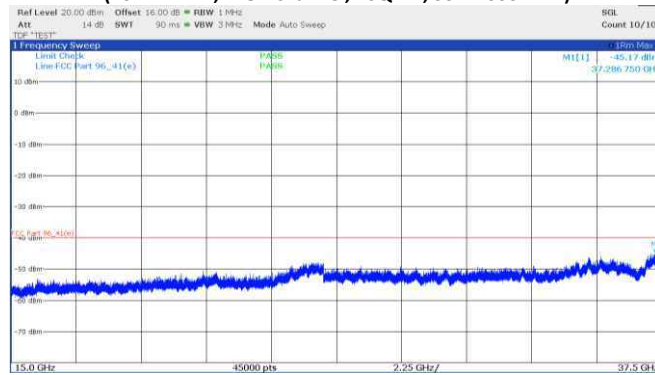
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(20 MHz BW, HIGH channel, QPSK, 3530-3720 MHz)



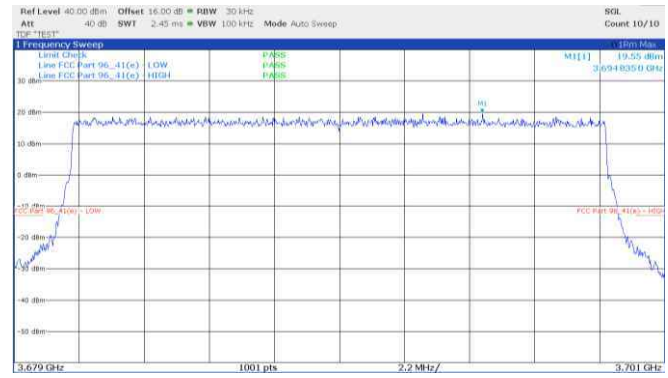
(20 MHz BW, HIGH channel, 16QAM, 30 - 1000 MHz)



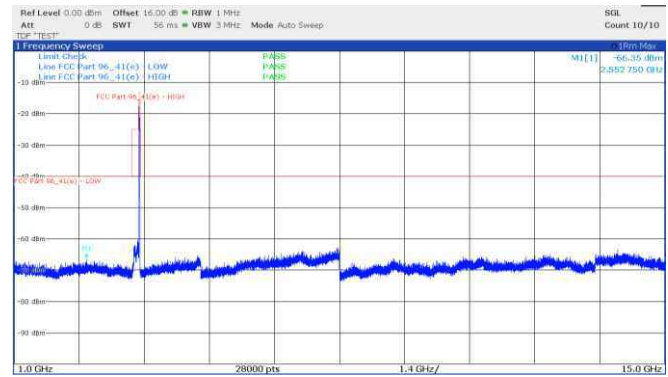
(20 MHz BW, HIGH channel, 16QAM, 15000 - 37500 MHz)



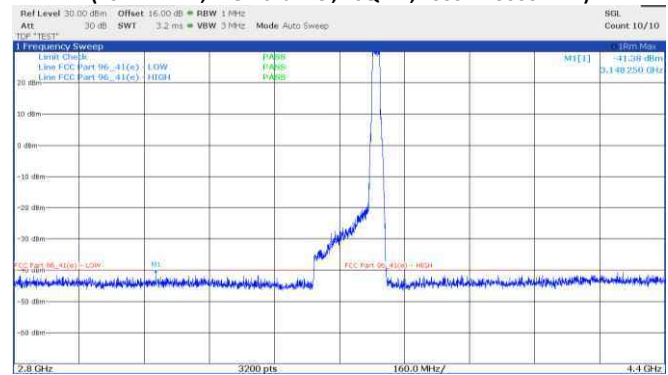
(20 MHz BW, HIGH channel, 16QAM, 3530-3720 MHz)



(20 MHz BW, HIGH channel, QPSK, 3679 - 3701 MHz)



(20 MHz BW, HIGH channel, 16QAM, 1000 - 15000 MHz)



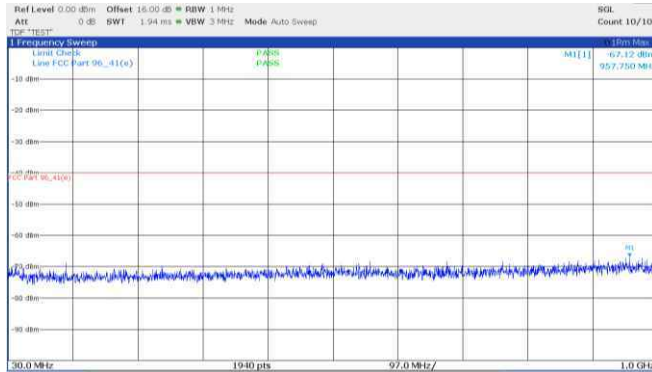
(20 MHz BW, HIGH channel, 16QAM, 2800 - 4400 MHz)



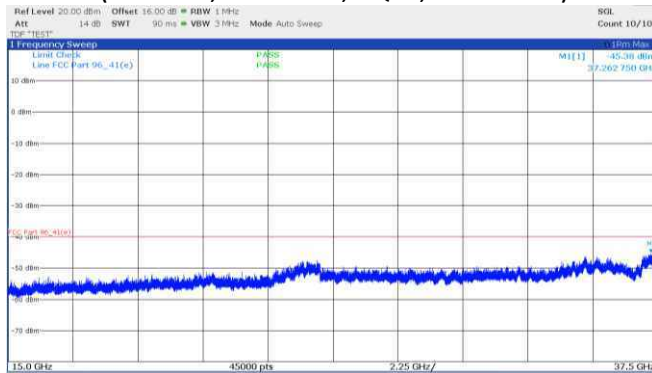
(20 MHz BW, HIGH channel, 16QAM, 3679 - 3701 MHz)

Section 8
Test name
Specification

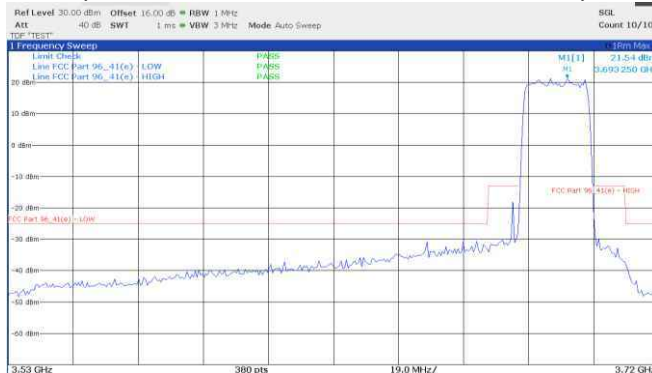
Testing data
 FCC §96.41(e)(1) Emissions intensity
 FCC Part 96



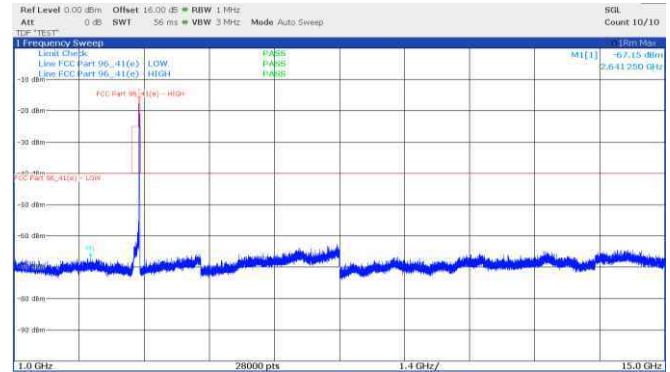
(20 MHz BW, HIGH channel, 64QAM, 30 – 1000 MHz)



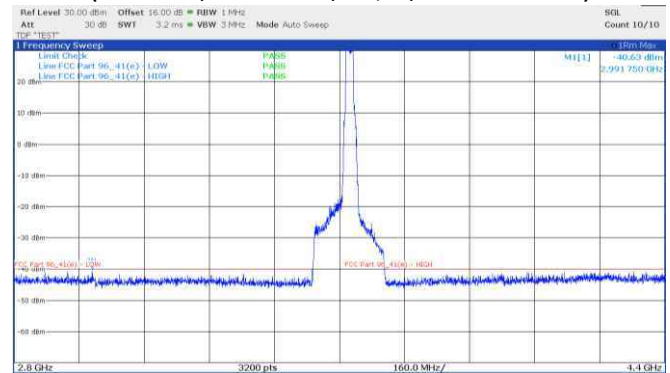
(20 MHz BW, HIGH channel, 64QAM, 15000 - 37500 MHz)



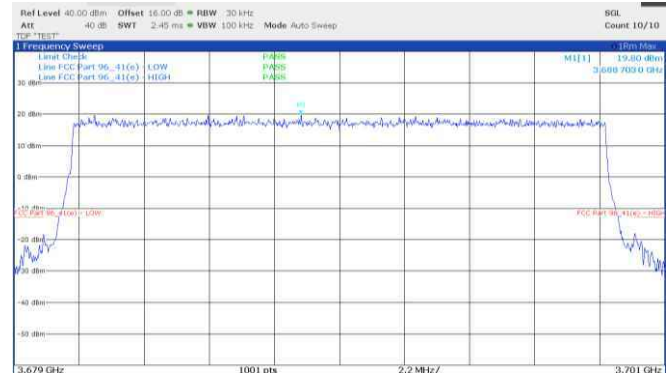
(20 MHz BW, HIGH channel, 64QAM, 3530-3720 MHz)



(20 MHz BW, HIGH channel, 64QAM, 1000 – 15000 MHz)



(20 MHz BW, HIGH channel, 64QAM, 2800 - 4400 MHz)



(20 MHz BW, HIGH channel, 64QAM, 3679 - 3701 MHz)

Radiated spurious emissions:

30 – 1000 MHz

All operating modes were investigated and observed to have similar emissions characteristics. Data for the worst case operating mode (all 4 transmitters operating at full power, MID channel, 20 MHz operating bandwidth, GFSK modulation) is presented below. Preliminary scans were performed with a peak detector to identify suspect frequencies. Identified suspect frequencies were maximized with respect to azimuth, measurement antenna height and polarization and measured with an RMS detector with a 1 MHz resolution bandwidth.

Full Spectrum

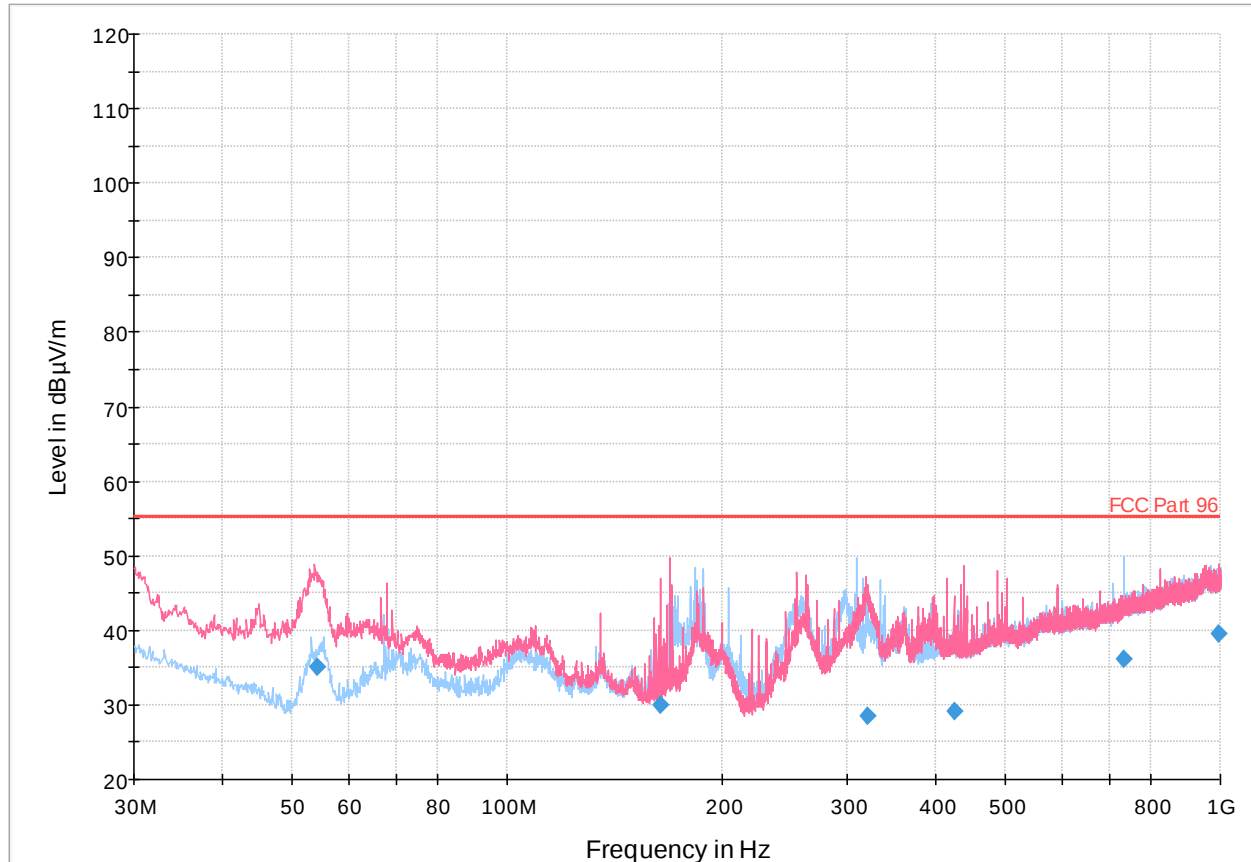


Figure 8.8-1: Radiated emissions spectral plot (30 MHz - 1 GHz), MID channel, 20 MHz bandwidth, GFSK modulation

Table 8.8-1: Radiated emissions results, MID channel, 20 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.268000	35.04	55.23	20.19	5000.0	1000.000	114.0	V	275.0	14.2
164.183000	30.05	55.23	25.18	5000.0	1000.000	100.0	V	145.0	18.5
320.681000	28.59	55.23	26.64	5000.0	1000.000	292.0	H	146.0	22.6
425.127000	29.22	55.23	26.01	5000.0	1000.000	133.0	V	223.0	26.2
733.216000	36.21	55.23	19.02	5000.0	1000.000	219.0	H	208.0	31.4
995.502000	39.58	55.23	15.65	5000.0	1000.000	281.0	V	120.0	34.7

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

1 – 18 GHz:

All operating modes were investigated and observed to have similar emissions characteristics. Data for the worst case operating modes (all 4 transmitters operating at full power, LOW, MID and HIGH channel, 10 and 20 MHz operating bandwidth, GFSK modulation) is presented below. Three channels (LOW, MID and HIGH) are presented to verify performance in the vicinity of the operating band. Preliminary scans were performed with a peak detector to identify suspect frequencies. Identified suspect frequencies were maximized with respect to azimuth, measurement antenna height and polarization and measured with an RMS detector with a 1 MHz resolution bandwidth.

Full Spectrum

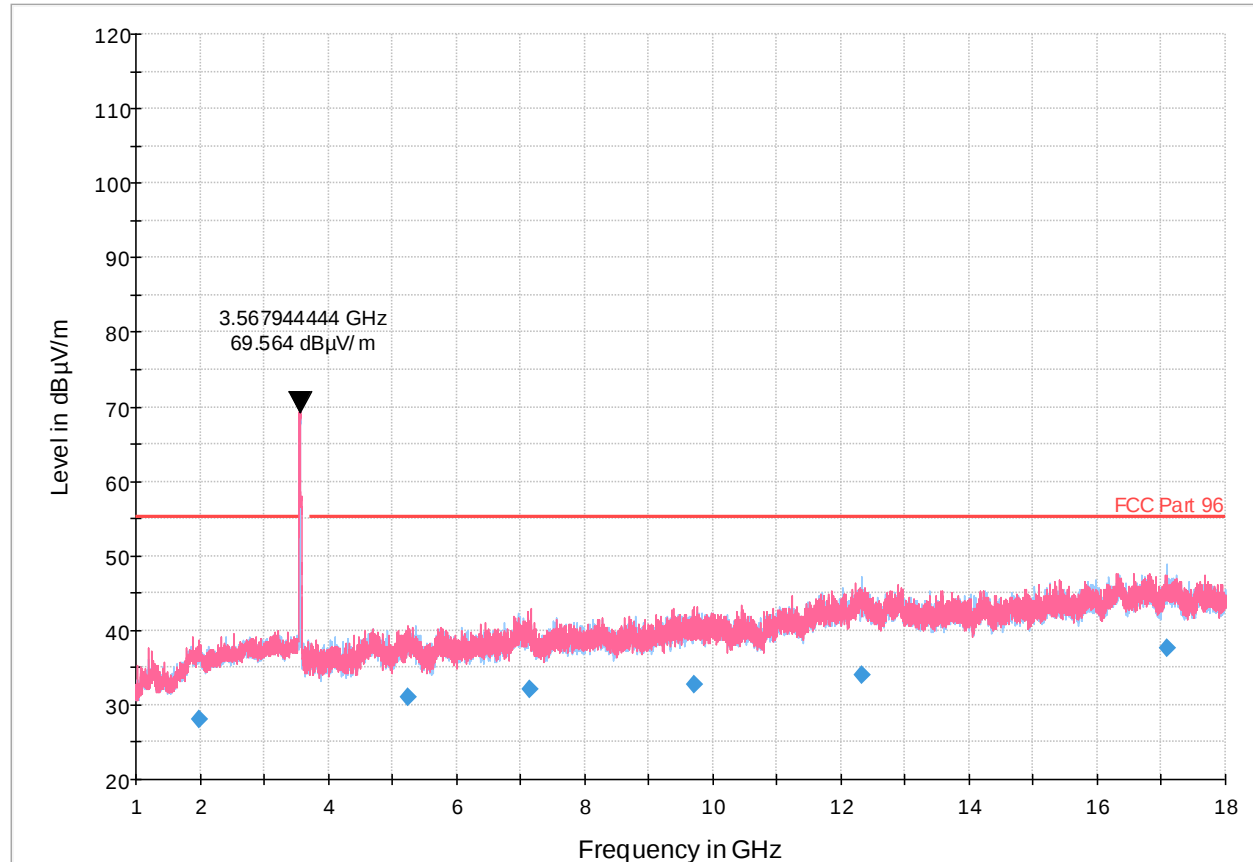


Figure 8.8-2: Radiated emissions spectral plot (1 GHz - 18 GHz), LOW channel, 10 MHz bandwidth, GFSK modulation

Table 8.8-2: Radiated emissions results, LOW channel, 10 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1993.777778	28.09	55.23	27.14	5000.0	1000.000	144.0	V	82.0	-10.8
5239.755556	31.07	55.23	24.16	5000.0	1000.000	382.0	V	341.0	-2.2
7154.833333	32.17	55.23	23.06	5000.0	1000.000	339.0	V	356.0	0.8
9713.477778	32.72	55.23	22.51	5000.0	1000.000	282.0	V	10.0	3.6
12317.422222	34.08	55.23	21.15	5000.0	1000.000	343.0	H	171.0	7.2
17081.933333	37.55	55.23	17.68	5000.0	1000.000	126.0	H	226.0	13.1

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

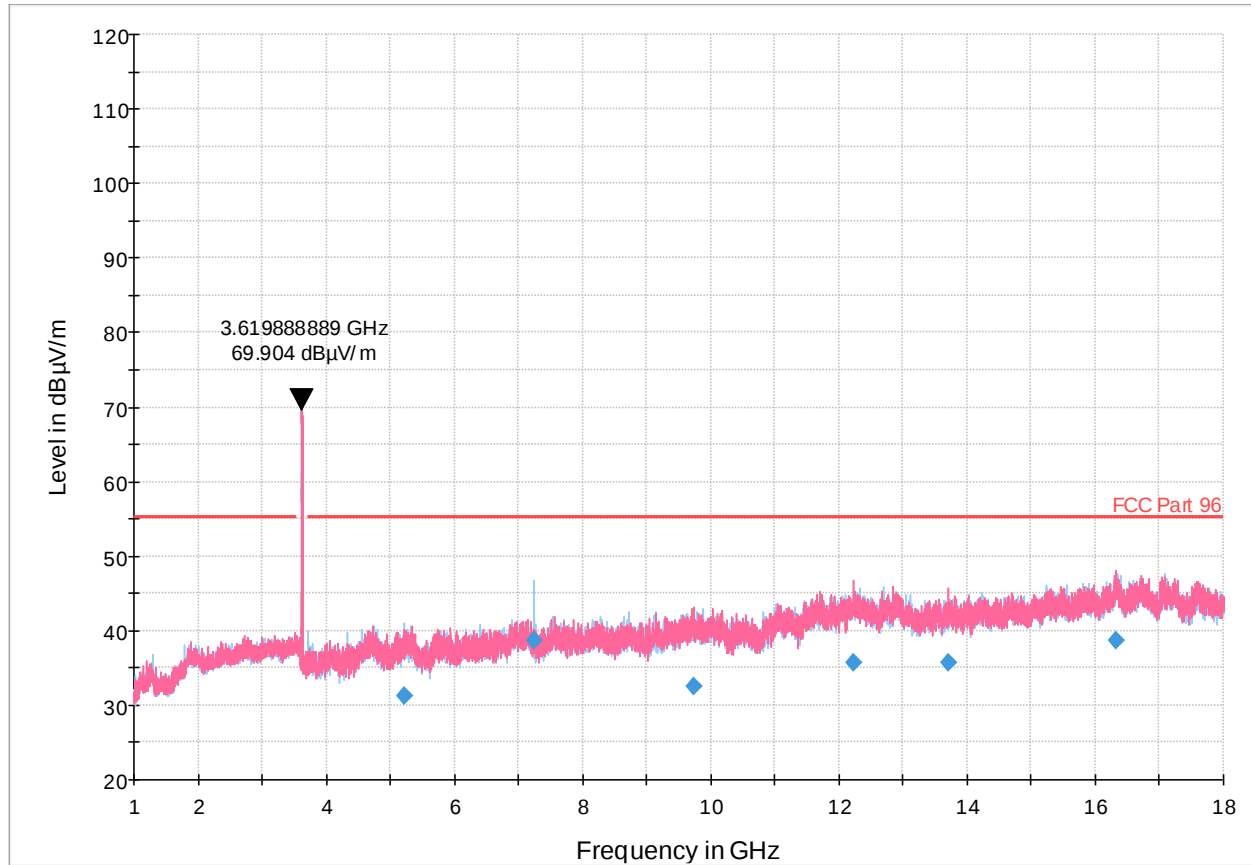


Figure 8.8-3: Radiated emissions spectral plot (1 GHz - 18 GHz), MID channel, 10 MHz bandwidth, GFSK modulation

Table 8.8-3: Radiated emissions results, MID channel, 10 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5222.033333	31.29	55.23	23.94	5000.0	1000.000	158.0	H	253.0	-2.3
7250.077778	38.76	55.23	16.47	5000.0	1000.000	297.0	H	114.0	0.4
9733.377778	32.57	55.23	22.66	5000.0	1000.000	117.0	V	54.0	3.6
12233.988889	35.76	55.23	19.47	5000.0	1000.000	283.0	V	160.0	6.9
13705.133333	35.81	55.23	19.42	5000.0	1000.000	160.0	V	42.0	9.4
16322.633333	38.64	55.23	16.59	5000.0	1000.000	377.0	V	129.0	13.3

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

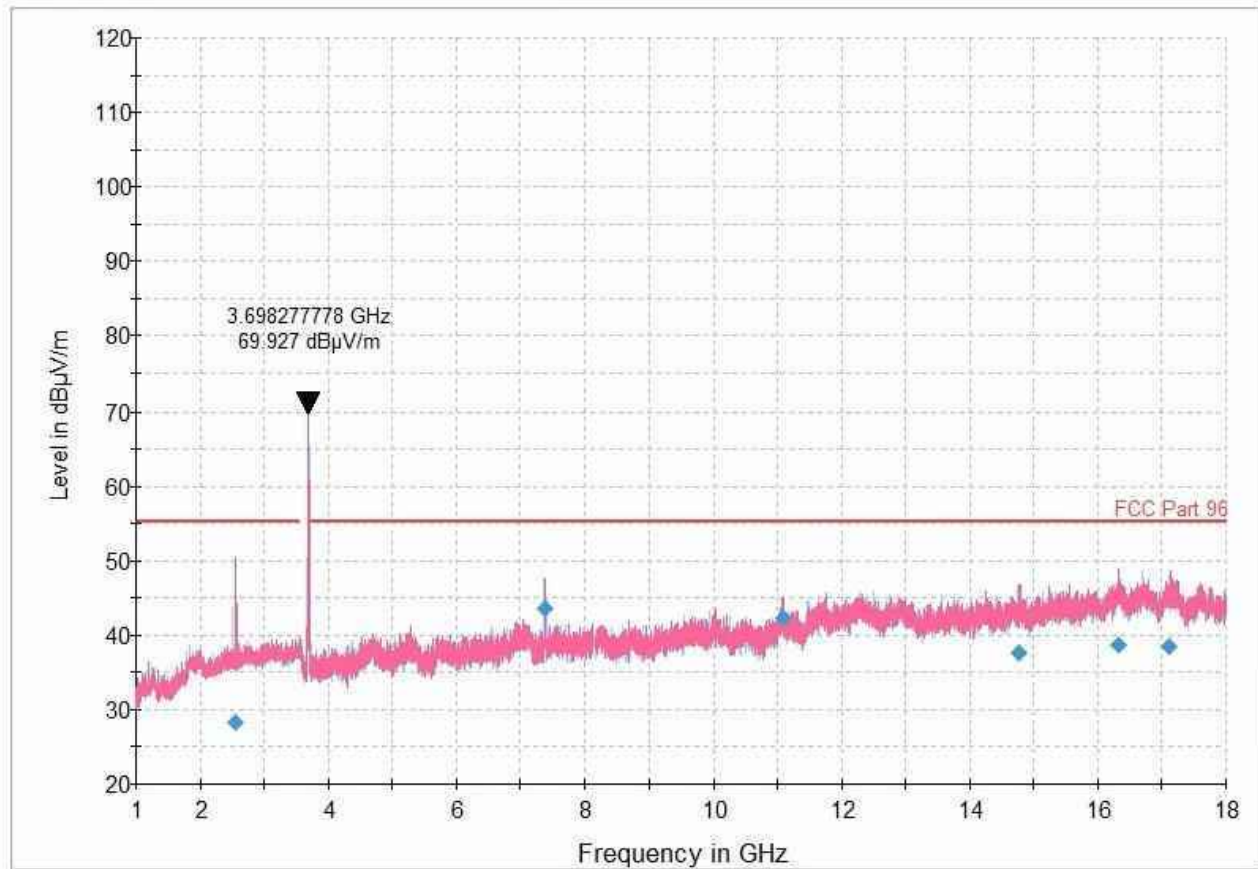


Figure 8.8-4: Radiated emissions spectral plot (1 GHz - 18 GHz), HIGH channel, 10 MHz bandwidth, GFSK modulation

Table 8.8-4: Radiated emissions results, HIGH channel, 10 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2552.855556	28.23	55.23	27.00	5000.0	1000.000	290.0	V	65.0	-9.6
7393.055556	43.52	55.23	11.71	5000.0	1000.000	308.0	H	187.0	0.9
11083.144444	42.28	55.23	12.95	5000.0	1000.000	316.0	H	180.0	4.0
14778.133333	37.72	55.23	17.51	5000.0	1000.000	302.0	H	121.0	9.8
16320.377778	38.68	55.23	16.55	5000.0	1000.000	327.0	V	238.0	13.3
17110.077778	38.39	55.23	16.84	5000.0	1000.000	253.0	H	0.0	13.6

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

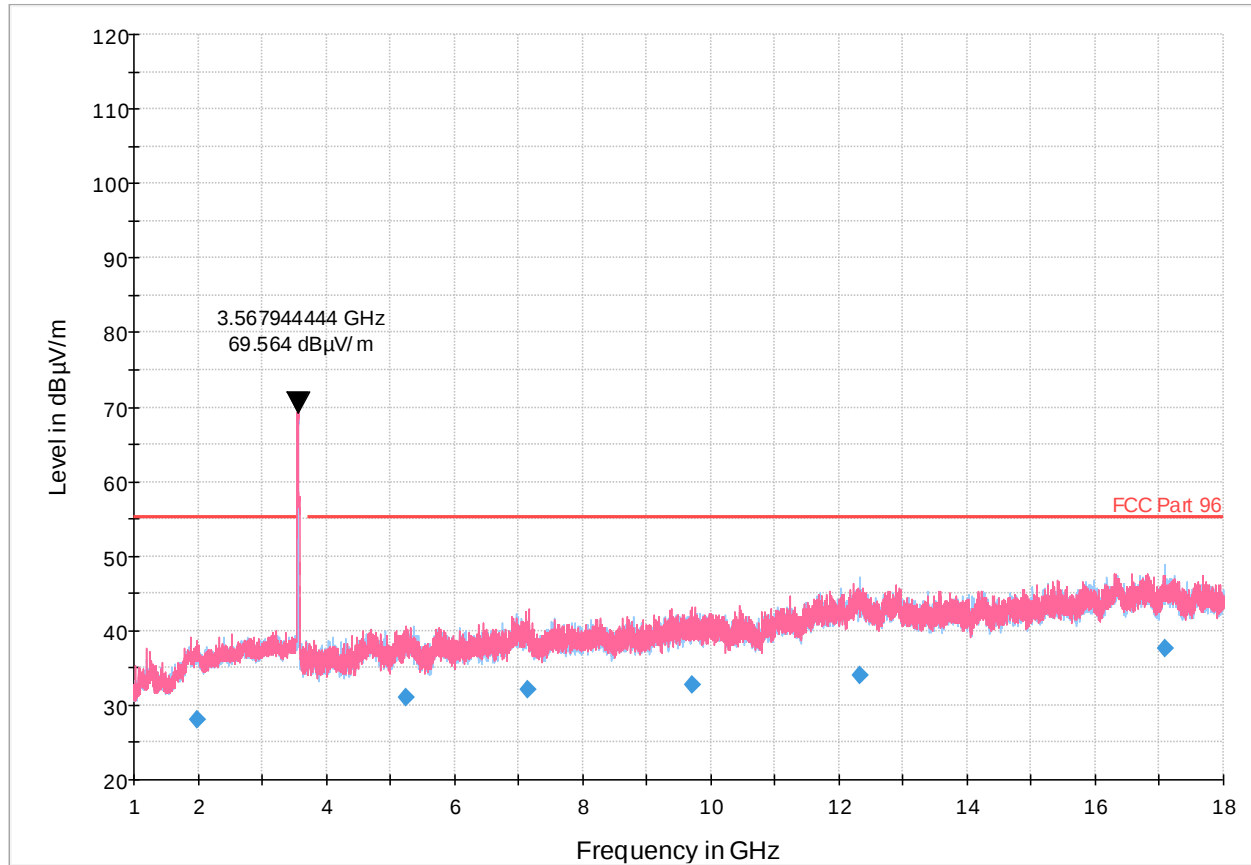


Figure 8.8-5: Radiated emissions spectral plot (1 GHz - 18 GHz), LOW channel, 20 MHz bandwidth, GFSK modulation

Table 8.8-5: Radiated emissions results, LOW channel, 20 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1993.777778	28.09	55.23	27.14	5000.0	1000.000	144.0	V	82.0	-10.8
5239.755556	31.07	55.23	24.16	5000.0	1000.000	382.0	V	341.0	-2.2
7154.833333	32.17	55.23	23.06	5000.0	1000.000	339.0	V	356.0	0.8
9713.477778	32.72	55.23	22.51	5000.0	1000.000	282.0	V	10.0	3.6
12317.422222	34.08	55.23	21.15	5000.0	1000.000	343.0	H	171.0	7.2
17081.933333	37.55	55.23	17.68	5000.0	1000.000	126.0	H	226.0	13.1

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

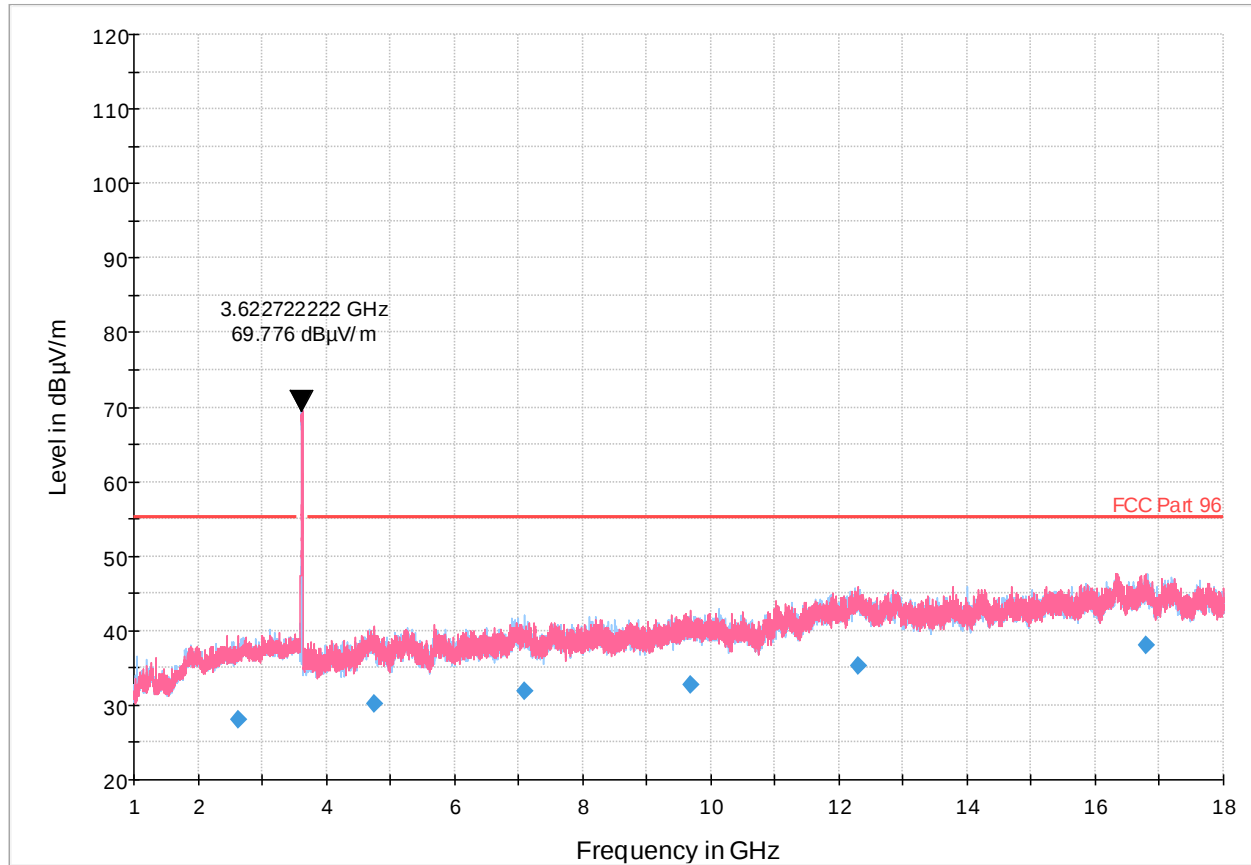


Figure 8.8-6: Radiated emissions spectral plot (1 GHz - 18 GHz), MID channel, 20 MHz bandwidth, GFSK modulation

Table 8.8-6: Radiated emissions results, MID channel, 20 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2625.066667	28.11	55.23	27.12	5000.0	1000.000	127.0	V	123.0	-9.2
4745.155556	30.19	55.23	25.04	5000.0	1000.000	353.0	V	127.0	-2.1
7106.088889	31.91	55.23	23.32	5000.0	1000.000	372.0	H	264.0	0.7
9689.733333	32.75	55.23	22.48	5000.0	1000.000	188.0	V	172.0	3.6
12302.533333	35.31	55.23	19.92	5000.0	1000.000	177.0	V	24.0	7.1
16795.833333	38.05	55.23	17.18	5000.0	1000.000	346.0	V	212.0	14.5

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

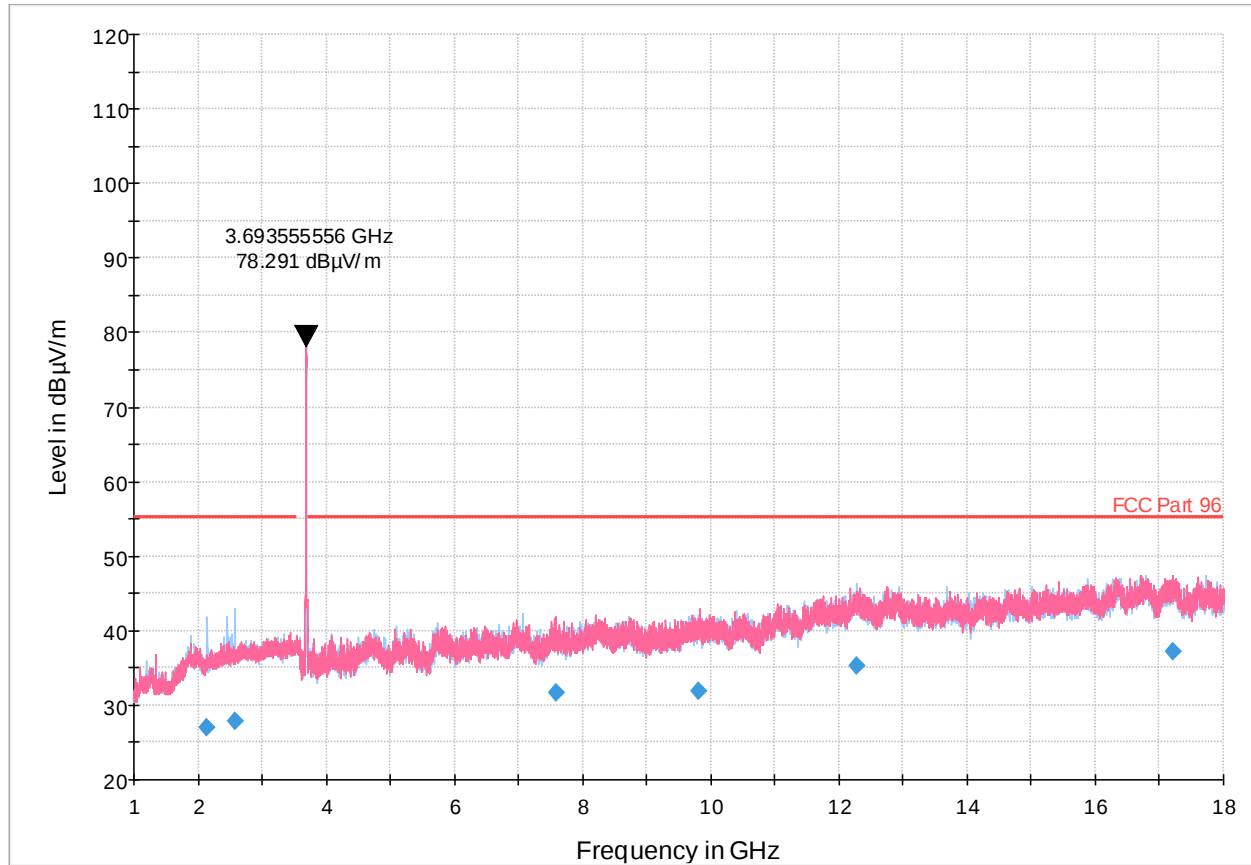


Figure 8.8-7: Radiated emissions spectral plot (1 GHz - 18 GHz), HIGH channel, 20 MHz bandwidth, GFSK modulation

Table 8.8-7: Radiated emissions results, HIGH channel, 20 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2144.155556	26.94	55.23	28.29	5000.0	1000.000	384.0	H	18.0	-11.1
2582.244444	27.92	55.23	27.31	5000.0	1000.000	144.0	H	290.0	-9.6
7584.811111	31.67	55.23	23.56	5000.0	1000.000	299.0	V	266.0	1.1
9815.255556	31.83	55.23	23.40	5000.0	1000.000	311.0	V	57.0	3.6
12269.988889	35.38	55.23	19.85	5000.0	1000.000	388.0	H	344.0	7.1
17222.077778	37.21	55.23	18.02	5000.0	1000.000	366.0	H	315.0	15.1

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

18 – 26.5 GHz

All operating modes were investigated and observed to no significant emissions. Data from a representative operating mode (all 4 transmitters operating at full power, MID channel, 20 MHz operating bandwidth, GFSK modulation) is presented below. Preliminary scans to were performed with a peak detector to identify suspect frequencies. Identified suspect frequencies were maximized with respect to azimuth, measurement antenna height and polarization and measured with an RMS detector with a 1 MHz resolution bandwidth.

Full Spectrum

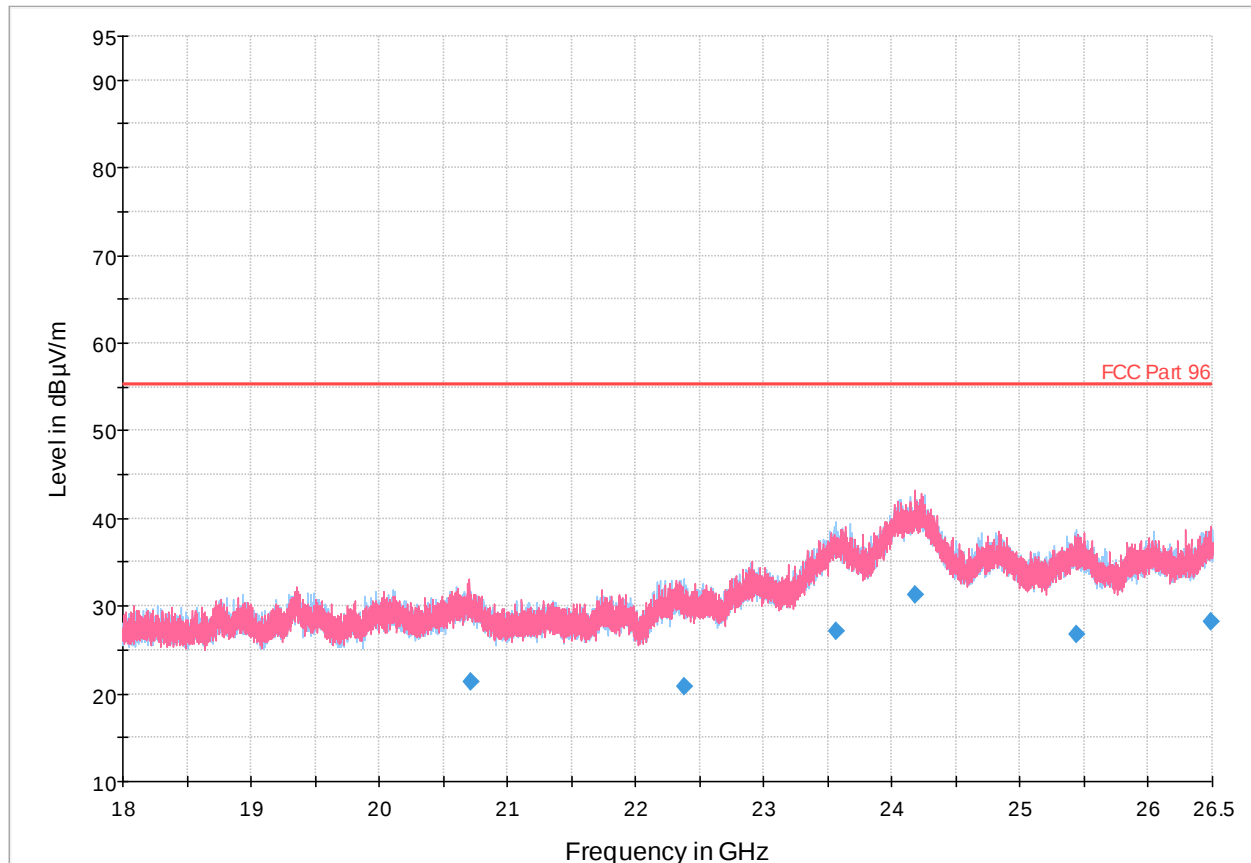


Figure 8.8-8: Radiated emissions spectral plot (18 GHz - 26.5 GHz), MID channel, 20 MHz bandwidth, GFSK modulation

Table 8.8-8: Radiated emissions results, MID channel, 20 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20715.181250	21.37	55.23	33.86	5000.0	1000.000	368.0	V	58.0	18.5
22381.818750	20.85	55.23	34.38	5000.0	1000.000	246.0	H	202.0	17.4
23557.700000	27.10	55.23	28.13	5000.0	1000.000	107.0	H	283.0	23.7
24174.643750	31.26	55.23	23.97	5000.0	1000.000	366.0	V	331.0	27.2
25441.431250	26.84	55.23	28.39	5000.0	1000.000	250.0	H	0.0	21.7
26493.831250	28.24	55.23	26.99	5000.0	1000.000	400.0	V	151.0	23.4

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

26.5 – 40 GHz

All operating modes were investigated and observed to no significant emissions. Data from a representative operating mode (all 4 transmitters operating at full power, MID channel, 20 MHz operating bandwidth, GFSK modulation) is presented below. Preliminary scans to were performed with a peak detector to identify suspect frequencies. Identified suspect frequencies were maximized with respect to azimuth, measurement antenna height and polarization and measured with an RMS detector with a 1 MHz resolution bandwidth.

Full Spectrum

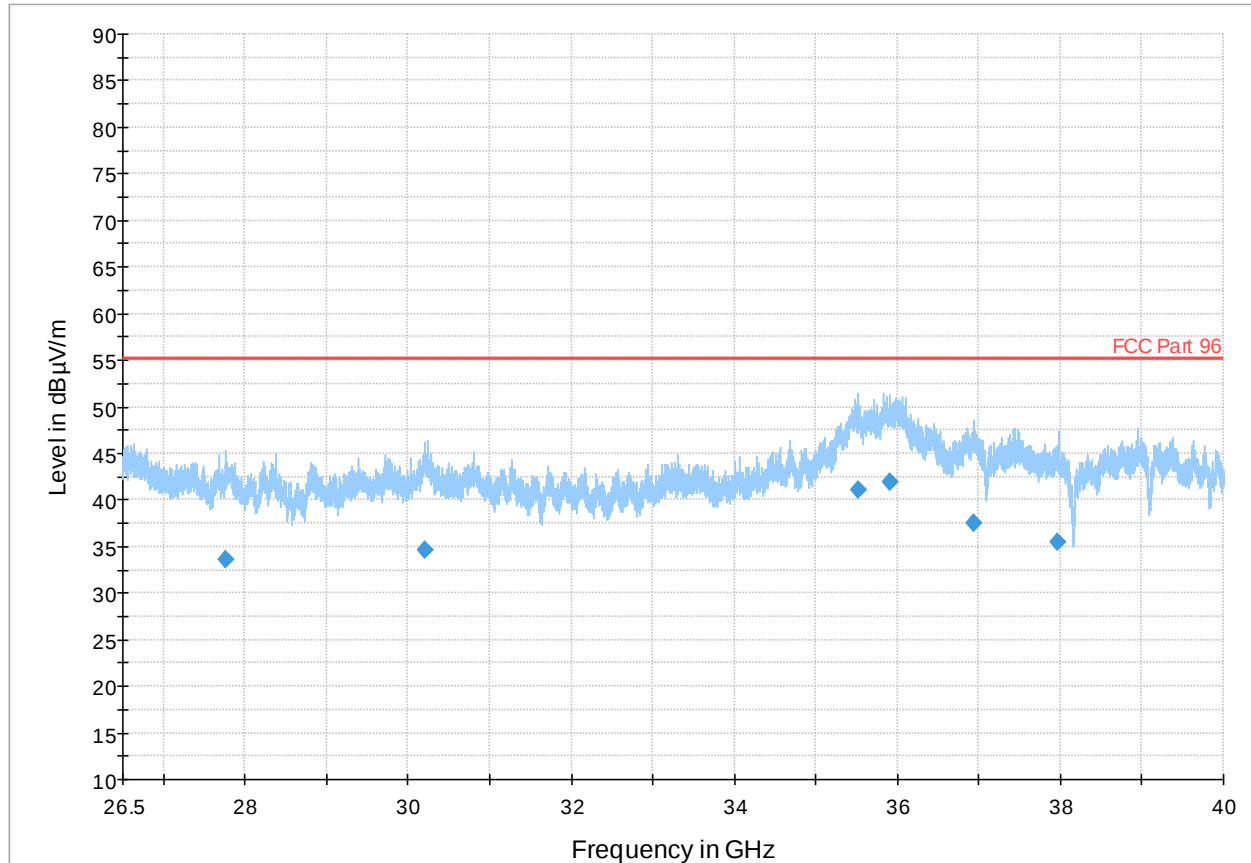


Figure 8.8-9: Radiated emissions spectral plot (26.5 GHz - 40 GHz), MID channel, 20 MHz bandwidth, GFSK modulation

Table 8.8-9: Radiated emissions results, MID channel, 20 MHz bandwidth, GFSK modulation

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
27759.293750	33.65	55.23	21.58	5000.0	1000.000	123.0	H	192.0	9.6
30196.668750	34.62	55.23	20.61	5000.0	1000.000	106.0	H	90.0	11.8
35523.881250	41.04	55.23	14.19	5000.0	1000.000	225.0	H	164.0	19.6
35911.162500	41.85	55.23	13.38	5000.0	1000.000	204.0	H	22.0	20.8
36939.612500	37.48	55.23	17.75	5000.0	1000.000	125.0	H	85.0	16.4
37969.556250	35.55	55.23	19.68	5000.0	1000.000	225.0	V	293.0	15.6

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Section 9. Block diagrams of test setups

9.1 Radiated emissions set-up

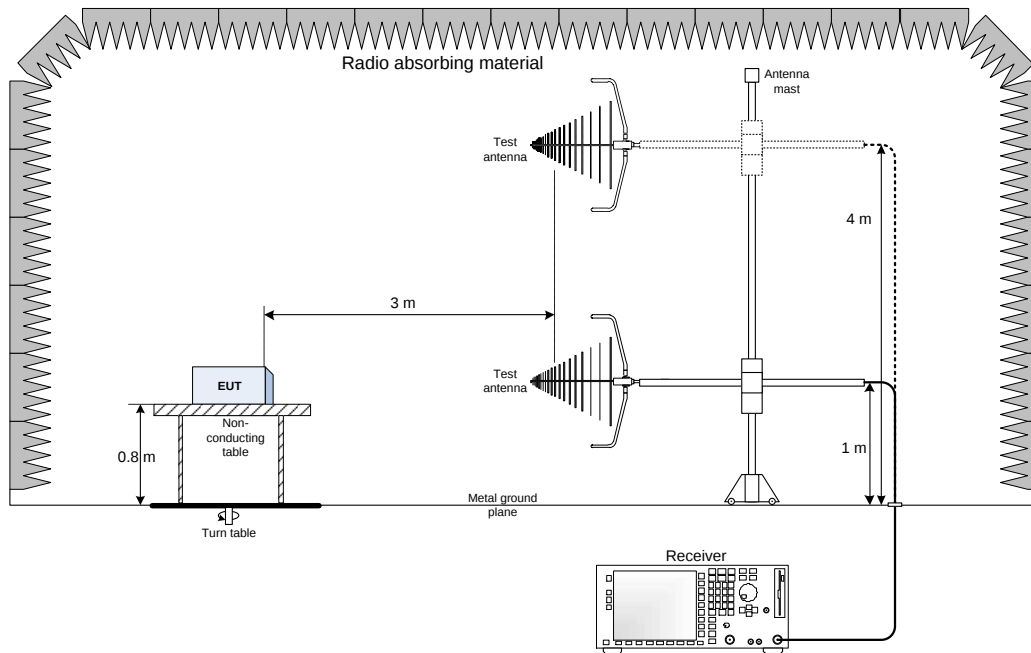


Figure 9.1-1: Below 1 GHz setup

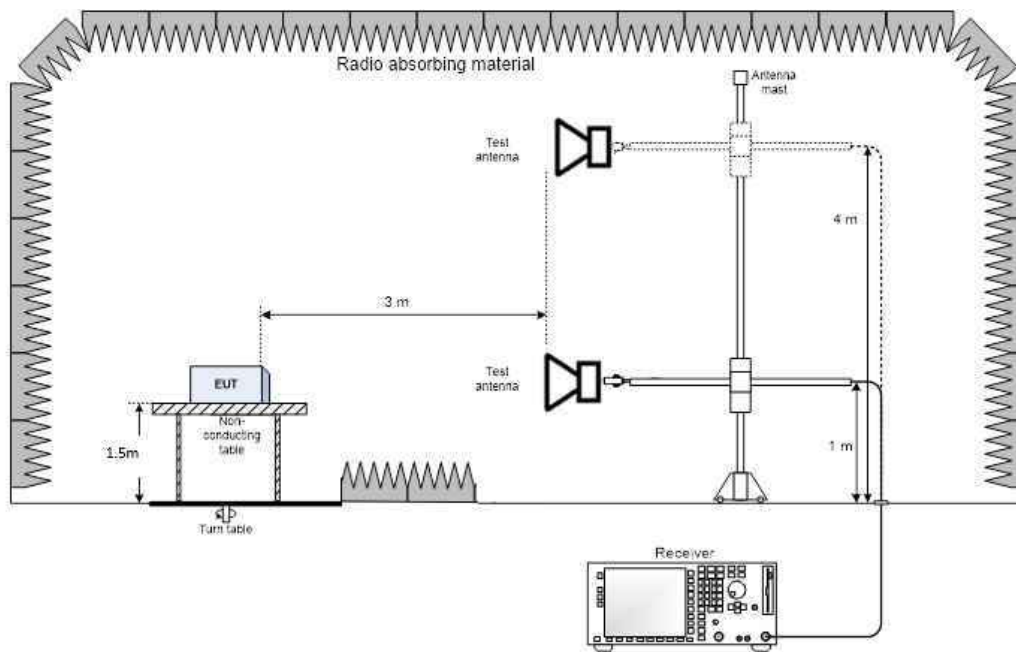


Figure 9.1-2: Above 1 GHz setup