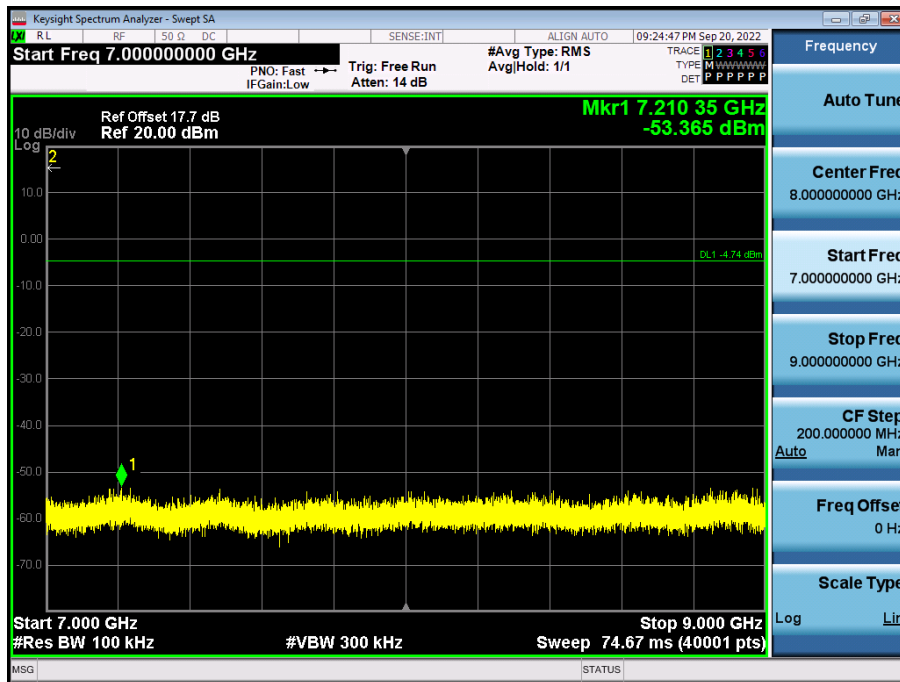


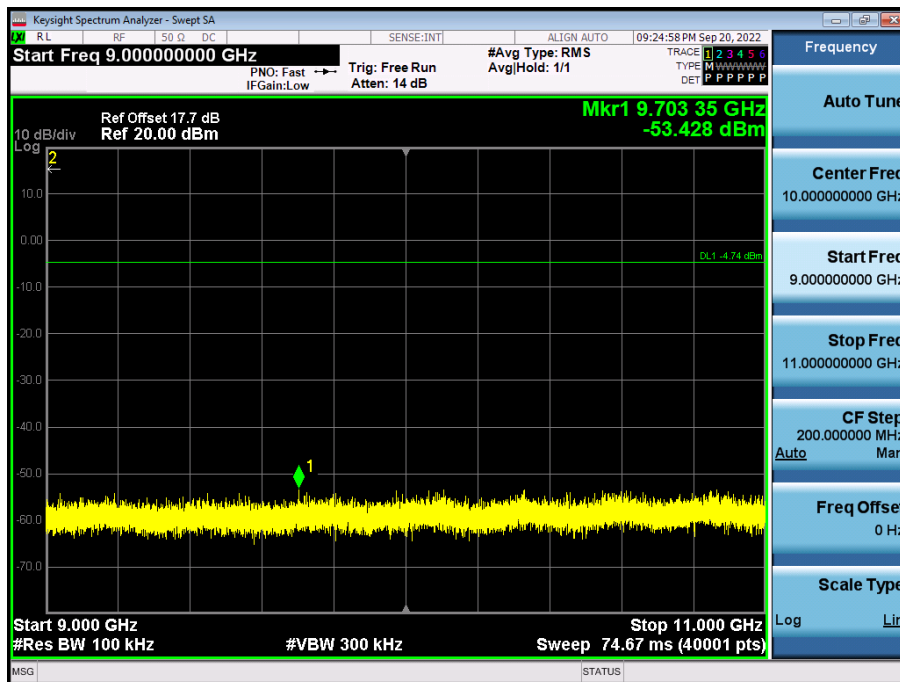
Test Plots(GFSK)- 7 GHz - 9 GHz

Spurious Emission (CH.0)



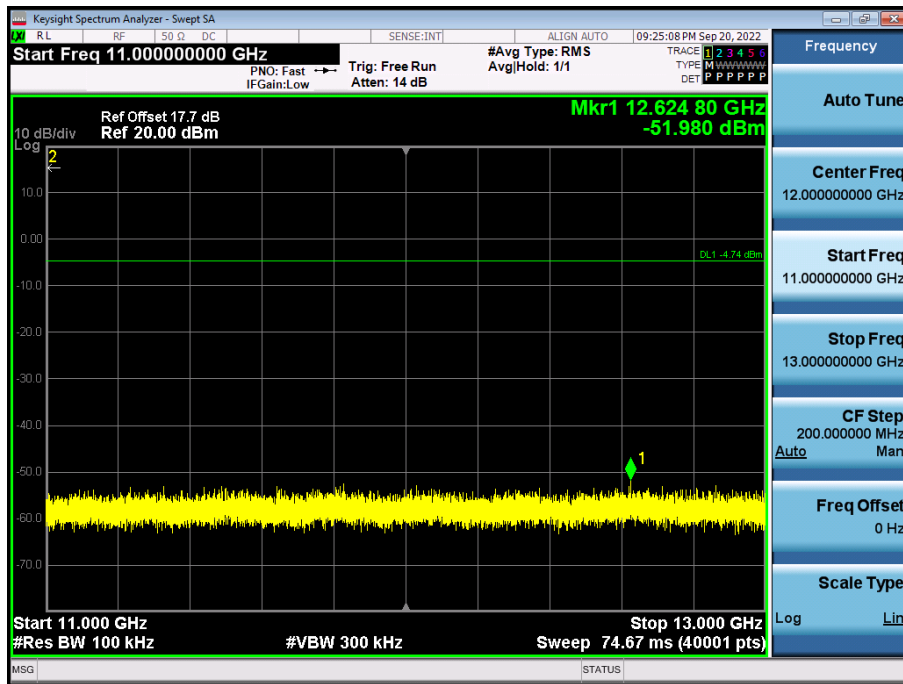
Test Plots(GFSK)- 9 GHz - 11 GHz

Spurious Emission (CH.0)



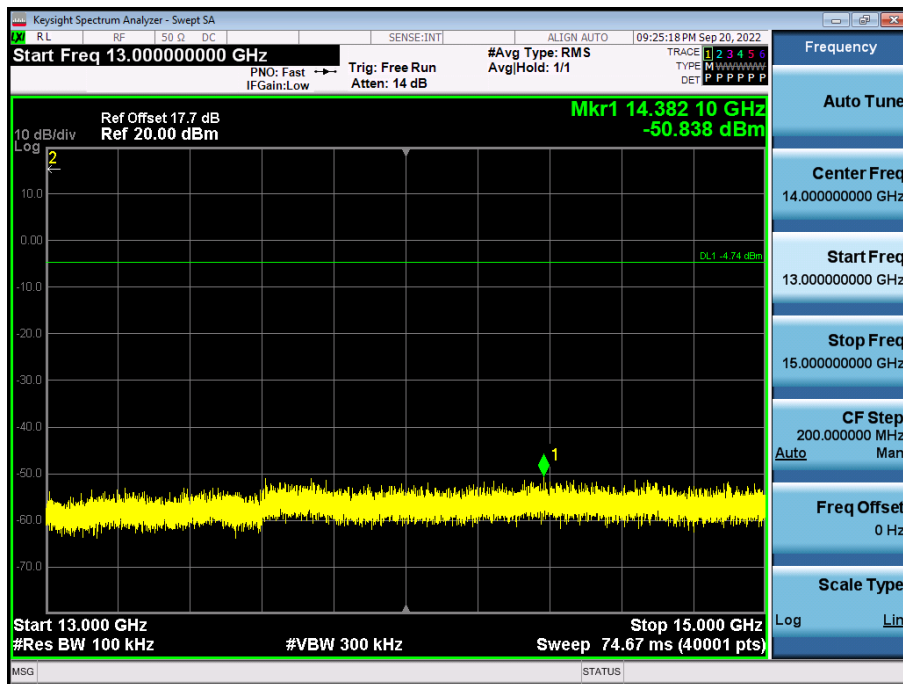
Test Plots(GFSK) 11 GHz - 13 GHz

Spurious Emission (CH.0)



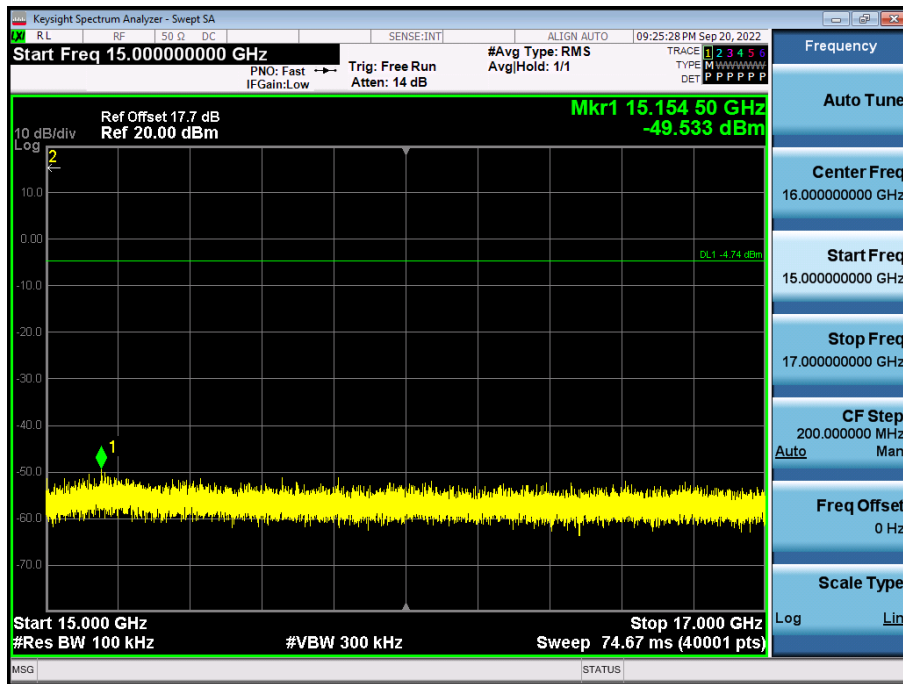
Test Plots (GFSK)- 13 GHz – 15 GHz

Spurious Emission (CH.0)



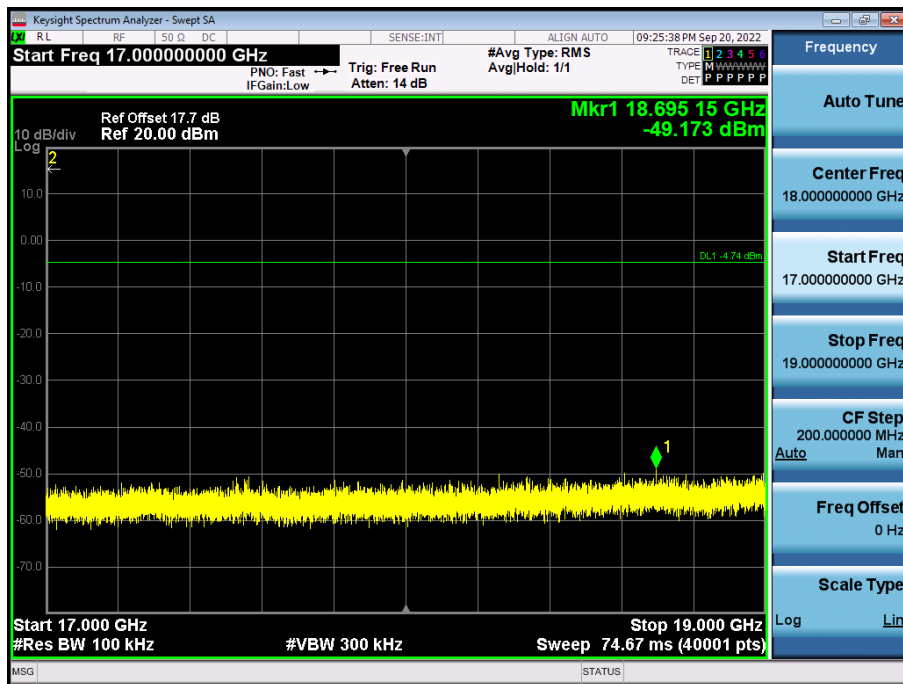
Test Plots(GFSK)- 15 GHz - 17 GHz

Spurious Emission (CH.0)



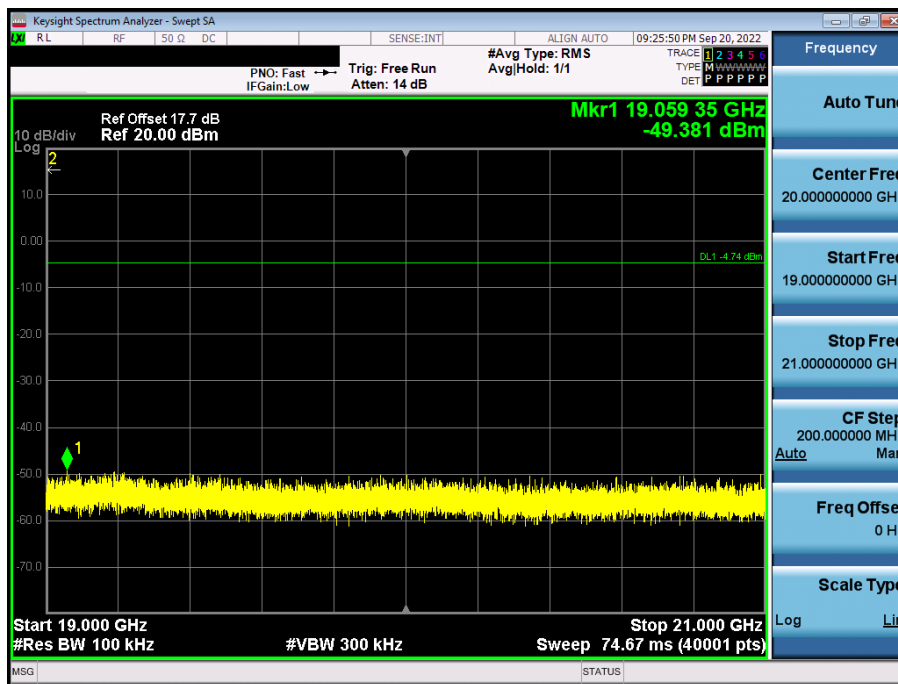
Test Plots(GFSK)- 17 GHz - 19 GHz

Spurious Emission (CH.0)



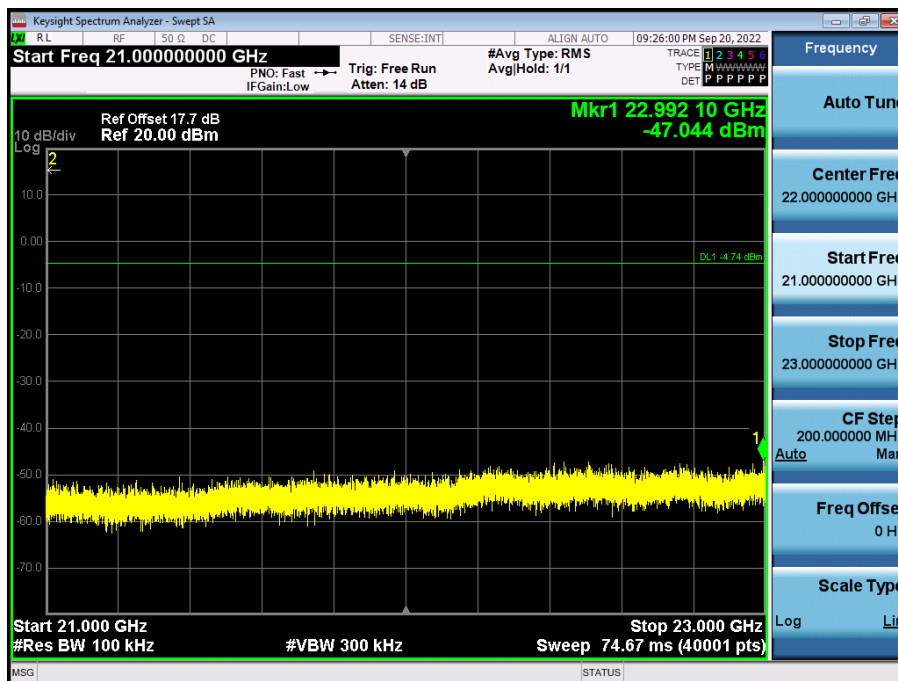
Test Plots (GFSK)- 19 GHz - 21 GHz

Spurious Emission (CH.0)



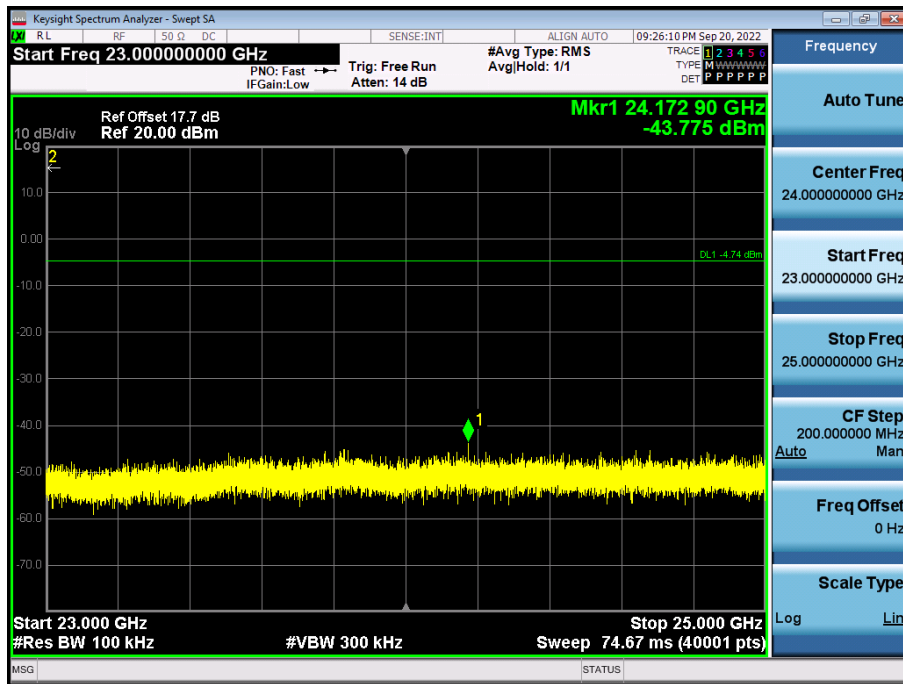
Test Plots (GFSK)- 21 GHz - 23 GHz

Spurious Emission (CH.0)



Test Plots (GFSK)- 23 GHz - 25 GHz

Spurious Emission (CH.0)



10.6.2 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Measured Value	A.F+C.L+D.F	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
2. Radiated test is performed with hopping off.

[Ant.1]

Frequency Range : Above 1 GHz

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	44.31	2.56	V	46.87	73.98	27.11	PK
4804	30.45	2.56	V	33.01	53.98	20.97	AV
7206	40.37	8.81	V	49.18	73.98	24.80	PK
7206	27.02	8.81	V	35.83	53.98	18.15	AV
4804	44.65	2.56	H	47.21	73.98	26.77	PK
4804	30.58	2.56	H	33.14	53.98	20.84	AV
7206	40.62	8.81	H	49.43	73.98	24.55	PK
7206	27.09	8.81	H	35.90	53.98	18.08	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	42.25	2.72	V	44.97	73.98	29.01	PK
4882	29.09	2.72	V	31.81	53.98	22.17	AV
7323	41.66	9.10	V	50.76	73.98	23.22	PK
7323	27.49	9.10	V	36.59	53.98	17.39	AV
4882	42.90	2.72	H	45.62	73.98	28.36	PK
4882	29.13	2.72	H	31.85	53.98	22.13	AV
7323	41.97	9.10	H	51.07	73.98	22.91	PK
7323	27.53	9.10	H	36.63	53.98	17.35	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	42.92	2.31	V	45.23	73.98	28.75	PK
4960	29.24	2.31	V	31.55	53.98	22.43	AV
7440	40.55	10.21	V	50.76	73.98	23.22	PK
7440	26.76	10.21	V	36.97	53.98	17.01	AV
4960	43.07	2.31	H	45.38	73.98	28.60	PK
4960	29.27	2.31	H	31.58	53.98	22.40	AV
7440	40.73	10.21	H	50.94	73.98	23.04	PK
7440	26.87	10.21	H	37.08	53.98	16.90	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	44.22	2.56	V	46.78	73.98	27.20	PK
4804	30.17	2.56	V	32.73	53.98	21.25	AV
7206	40.67	8.81	V	49.48	73.98	24.50	PK
7206	27.11	8.81	V	35.92	53.98	18.06	AV
4804	44.45	2.56	H	47.01	73.98	26.97	PK
4804	30.46	2.56	H	33.02	53.98	20.96	AV
7206	40.83	8.81	H	49.64	73.98	24.34	PK
7206	27.15	8.81	H	35.96	53.98	18.02	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	42.92	2.72	V	45.64	73.98	28.34	PK
4882	29.01	2.72	V	31.73	53.98	22.25	AV
7323	40.93	9.10	V	50.03	73.98	23.95	PK
7323	27.48	9.10	V	36.58	53.98	17.40	AV
4882	43.25	2.72	H	45.97	73.98	28.01	PK
4882	29.06	2.72	H	31.78	53.98	22.20	AV
7323	41.04	9.10	H	50.14	73.98	23.84	PK
7323	27.54	9.10	H	36.64	53.98	17.34	AV

Operation Mode: CH High($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4960	42.73	2.31	V	45.04	73.98	28.94	PK
4960	29.11	2.31	V	31.42	53.98	22.56	AV
7440	41.20	10.21	V	51.41	73.98	22.57	PK
7440	26.79	10.21	V	37.00	53.98	16.98	AV
4960	43.28	2.31	H	45.59	73.98	28.39	PK
4960	29.17	2.31	H	31.48	53.98	22.50	AV
7440	41.31	10.21	H	51.52	73.98	22.46	PK
7440	26.88	10.21	H	37.09	53.98	16.89	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	44.19	2.56	V	46.75	73.98	27.23	PK
4804	30.17	2.56	V	32.73	53.98	21.25	AV
7206	40.30	8.81	V	49.11	73.98	24.87	PK
7206	27.06	8.81	V	35.87	53.98	18.11	AV
4804	44.29	2.56	H	46.85	73.98	27.13	PK
4804	30.45	2.56	H	33.01	53.98	20.97	AV
7206	40.47	8.81	H	49.28	73.98	24.70	PK
7206	27.10	8.81	H	35.91	53.98	18.07	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	42.93	2.72	V	45.65	73.98	28.33	PK
4882	29.11	2.72	V	31.83	53.98	22.15	AV
7323	40.63	9.10	V	49.73	73.98	24.25	PK
7323	27.58	9.10	V	36.68	53.98	17.30	AV
4882	43.14	2.72	H	45.86	73.98	28.12	PK
4882	29.17	2.72	H	31.89	53.98	22.09	AV
7323	40.98	9.10	H	50.08	73.98	23.90	PK
7323	27.63	9.10	H	36.73	53.98	17.25	AV

Operation Mode: CH High(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	42.58	2.31	V	44.89	73.98	29.09	PK
4960	29.17	2.31	V	31.48	53.98	22.50	AV
7440	40.61	10.21	V	50.82	73.98	23.16	PK
7440	26.79	10.21	V	37.00	53.98	16.98	AV
4960	42.91	2.31	H	45.22	73.98	28.76	PK
4960	29.22	2.31	H	31.53	53.98	22.45	AV
7440	40.88	10.21	H	51.09	73.98	22.89	PK
7440	26.87	10.21	H	37.08	53.98	16.90	AV

[Ant.2]

Frequency Range : Above 1 GHz

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	44.19	2.56	V	46.75	73.98	27.23	PK
4804	30.42	2.56	V	32.98	53.98	21.00	AV
7206	39.97	8.81	V	48.78	73.98	25.20	PK
7206	26.51	8.81	V	35.32	53.98	18.66	AV
4804	44.28	2.56	H	46.84	73.98	27.14	PK
4804	30.55	2.56	H	33.11	53.98	20.87	AV
7206	40.40	8.81	H	49.21	73.98	24.77	PK
7206	26.56	8.81	H	35.37	53.98	18.61	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	41.93	2.72	V	44.65	73.98	29.33	PK
4882	29.89	2.72	V	32.61	53.98	21.37	AV
7323	41.20	9.10	V	50.30	73.98	23.68	PK
7323	26.68	9.10	V	35.78	53.98	18.20	AV
4882	42.49	2.72	H	45.21	73.98	28.77	PK
4882	29.92	2.72	H	32.64	53.98	21.34	AV
7323	41.25	9.10	H	50.35	73.98	23.63	PK
7323	26.93	9.10	H	36.03	53.98	17.95	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	41.67	2.31	V	43.98	73.98	30.00	PK
4960	28.83	2.31	V	31.14	53.98	22.84	AV
7440	40.49	10.21	V	50.70	73.98	23.28	PK
7440	26.42	10.21	V	36.63	53.98	17.35	AV
4960	41.99	2.31	H	44.30	73.98	29.68	PK
4960	28.90	2.31	H	31.21	53.98	22.77	AV
7440	40.66	10.21	H	50.87	73.98	23.11	PK
7440	26.56	10.21	H	36.77	53.98	17.21	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	44.17	2.56	V	46.73	73.98	27.25	PK
4804	30.22	2.56	V	32.78	53.98	21.20	AV
7206	40.19	8.81	V	49.00	73.98	24.98	PK
7206	26.37	8.81	V	35.18	53.98	18.80	AV
4804	44.24	2.56	H	46.80	73.98	27.18	PK
4804	30.36	2.56	H	32.92	53.98	21.06	AV
7206	40.60	8.81	H	49.41	73.98	24.57	PK
7206	26.66	8.81	H	35.47	53.98	18.51	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	42.42	2.72	V	45.14	73.98	28.84	PK
4882	28.64	2.72	V	31.36	53.98	22.62	AV
7323	40.39	9.10	V	49.49	73.98	24.49	PK
7323	26.78	9.10	V	35.88	53.98	18.10	AV
4882	42.59	2.72	H	45.31	73.98	28.67	PK
4882	28.89	2.72	H	31.61	53.98	22.37	AV
7323	40.93	9.10	H	50.03	73.98	23.95	PK
7323	26.96	9.10	H	36.06	53.98	17.92	AV

Operation Mode: CH High($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4960	41.93	2.31	V	44.24	73.98	29.74	PK
4960	28.19	2.31	V	30.50	53.98	23.48	AV
7440	40.34	10.21	V	50.55	73.98	23.43	PK
7440	26.47	10.21	V	36.68	53.98	17.30	AV
4960	42.15	2.31	H	44.46	73.98	29.52	PK
4960	28.29	2.31	H	30.60	53.98	23.38	AV
7440	40.44	10.21	H	50.65	73.98	23.33	PK
7440	26.49	10.21	H	36.70	53.98	17.28	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	44.17	2.56	V	46.73	73.98	27.25	PK
4804	30.11	2.56	V	32.67	53.98	21.31	AV
7206	40.28	8.81	V	49.09	73.98	24.89	PK
7206	26.70	8.81	V	35.51	53.98	18.47	AV
4804	44.29	2.56	H	46.85	73.98	27.13	PK
4804	30.24	2.56	H	32.80	53.98	21.18	AV
7206	40.42	8.81	H	49.23	73.98	24.75	PK
7206	26.76	8.81	H	35.57	53.98	18.41	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	43.29	2.72	V	46.01	73.98	27.97	PK
4882	28.69	2.72	V	31.41	53.98	22.57	AV
7323	41.33	9.10	V	50.43	73.98	23.55	PK
7323	26.81	9.10	V	35.91	53.98	18.07	AV
4882	43.46	2.72	H	46.18	73.98	27.80	PK
4882	28.89	2.72	H	31.61	53.98	22.37	AV
7323	41.37	9.10	H	50.47	73.98	23.51	PK
7323	27.02	9.10	H	36.12	53.98	17.86	AV

Operation Mode: CH High(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	41.88	2.31	V	44.19	73.98	29.79	PK
4960	28.29	2.31	V	30.60	53.98	23.38	AV
7440	40.31	10.21	V	50.52	73.98	23.46	PK
7440	26.45	10.21	V	36.66	53.98	17.32	AV
4960	42.45	2.31	H	44.76	73.98	29.22	PK
4960	28.32	2.31	H	30.63	53.98	23.35	AV
7440	40.47	10.21	H	50.68	73.98	23.30	PK
7440	26.59	10.21	H	36.80	53.98	17.18	AV

[RSDB Mode]

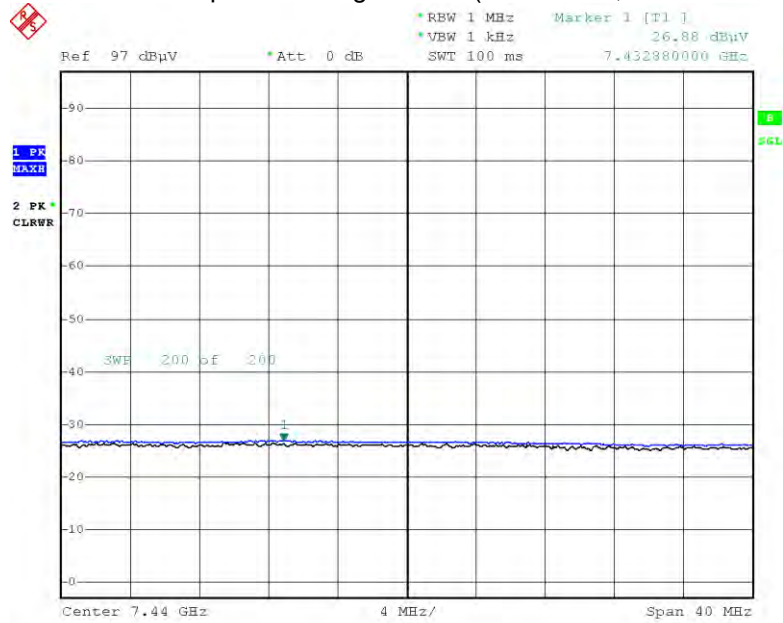
Mode : Bluetooth (2-DH5) (Ant1) + WLAN 2.4 GHz 802.11ax20 (HE20_SU_Ch.1) (Ant.2) + WLAN 5 GHz 802.11ax20 (HE20_SU_Ch.36)(MIMO)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	42.89	2.31	V	45.20	73.98	28.78	PK
4960	30.89	2.31	V	33.20	53.98	20.78	AV
7440	40.08	10.21	V	50.29	73.98	23.69	PK
7440	26.42	10.21	V	36.63	53.98	17.35	AV
4960	44.50	2.31	H	46.81	73.98	27.17	PK
4960	31.81	2.31	H	34.12	53.98	19.86	AV
7440	40.18	10.21	H	50.39	73.98	23.59	PK
7440	26.52	10.21	H	36.73	53.98	17.25	AV

RESULT PLOTS

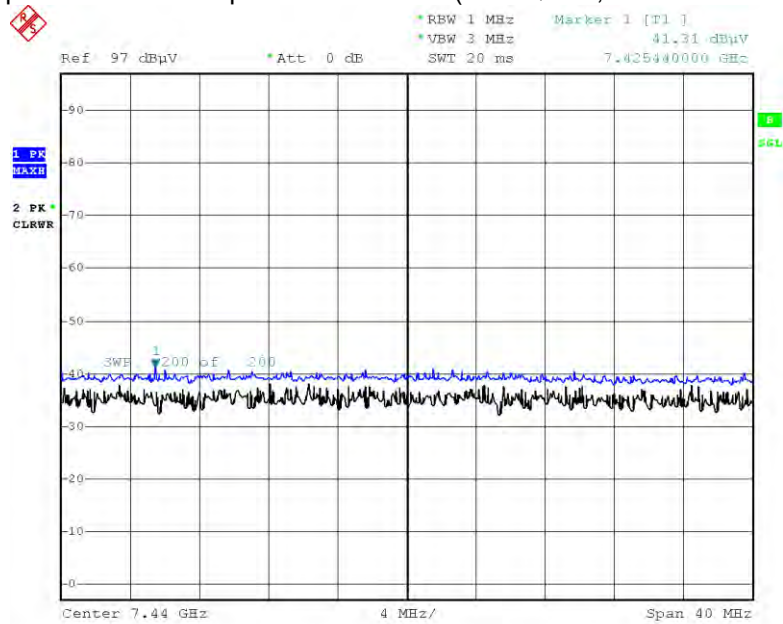
[Ant.1]

Radiated Spurious Emissions plot – Average Result ($\pi/4$ DQPSK, Ch.78 3rd Harmonic, Y-H)



Date: 22.SEP.2022 11:03:10

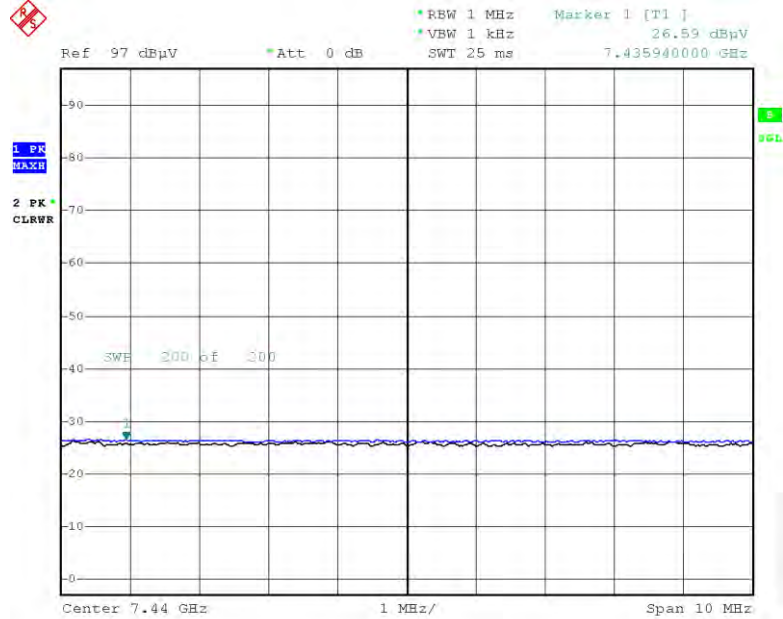
Radiated Spurious Emissions plot – Peak Result ($\pi/4$ DQPSK, Ch.78 3rd Harmonic, Y-H)



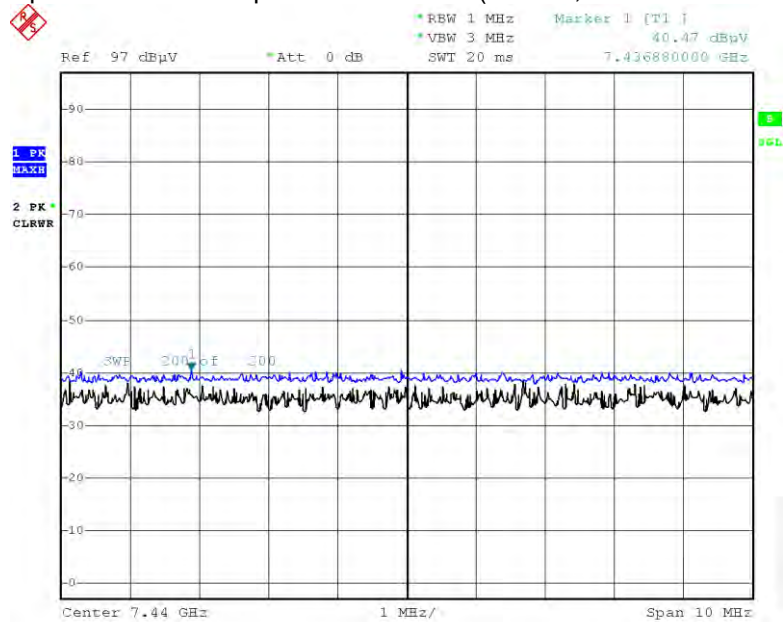
Date: 22.SEP.2022 11:03:54

[Ant.2]

Radiated Spurious Emissions plot – Average Result (8DPSK, Ch.78 3rd Harmonic, Z-H)



Date: 22.SEP.2022 16:50:51
Radiated Spurious Emissions plot – Peak Result (8DPSK, Ch.78 3rd Harmonic, Z-H)



Date: 22.SEP.2022 16:51:21

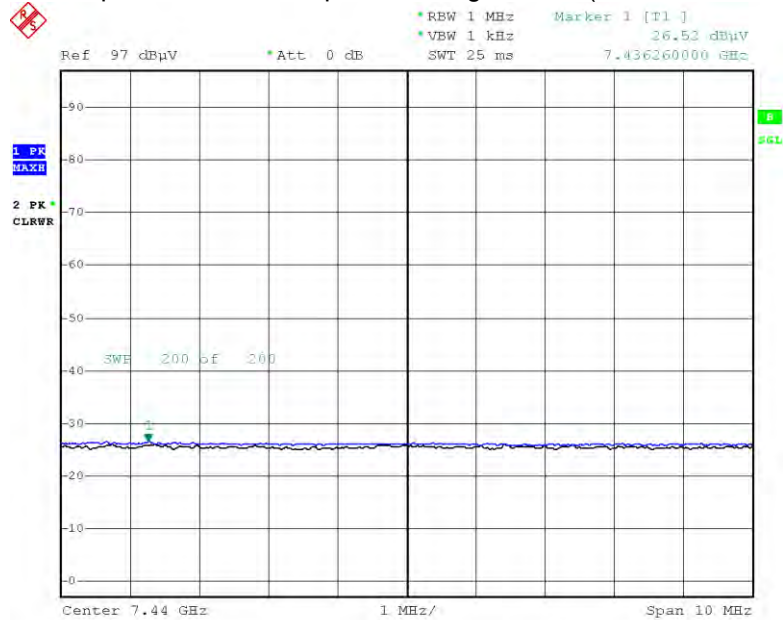
Note:

Plot of worst case are only reported.

RESULT PLOTS(RSDB)

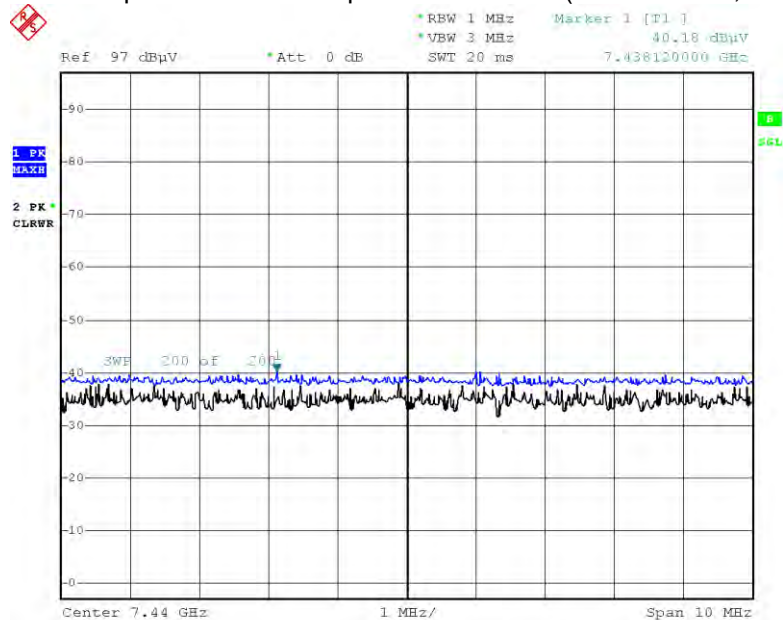
Mode : Bluetooth (2-DH5) (Ant1) + WLAN 2.4 GHz 802.11ax20 (HE20_SU_Ch.1) (Ant.2) + WLAN 5 GHz 802.11ax20 (HE20_SU_Ch.36)(MIMO)

Radiated Spurious Emissions plot – Average Result (3rd Harmonic, Z-H)



Date: 17.OCT.2022 12:09:50

Radiated Spurious Emissions plot –Peak Result (3rd Harmonic, Z-H)



Date: 17.OCT.2022 12:10:12

Note:

Plot of worst case are only reported.

Operation Mode	EDR(8DPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2310-2390	19.90	35.43	H	0	55.33	73.98	18.65	PK
2310-2390	19.90	35.43	H	-24.73	30.59	53.98	23.39	AV
2310-2390	19.87	35.43	V	0	55.30	73.98	18.68	PK
2310-2390	19.87	35.43	V	-24.73	30.57	53.98	23.41	AV
2483.5-2500.0	23.42	35.57	H	0	58.99	73.98	14.99	PK
2483.5-2500.0	23.42	35.57	H	-24.73	34.26	53.98	19.72	AV
2483.5-2500.0	23.29	35.57	V	0	58.85	73.98	15.13	PK
2483.5-2500.0	23.29	35.57	V	-24.73	34.12	53.98	19.86	AV

[Ant.2]

Operation Mode	Normal(GFSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dB μ V]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
2310-2390	20.09	35.43	H	0	55.52	73.98	18.46	PK
2310-2390	20.09	35.43	H	-24.73	30.79	53.98	23.19	AV
2310-2390	20.03	35.43	V	0	55.45	73.98	18.53	PK
2310-2390	20.03	35.43	V	-24.73	30.72	53.98	23.26	AV
2483.5-2500.0	21.44	35.57	H	0	57.01	73.98	16.97	PK
2483.5-2500.0	21.44	35.57	H	-24.73	32.28	53.98	21.70	AV
2483.5-2500.0	20.97	35.57	V	0	56.54	73.98	17.44	PK
2483.5-2500.0	20.97	35.57	V	-24.73	31.81	53.98	22.17	AV

Operation Mode	EDR(π /4DQPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dB μ V]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
2310-2390	20.07	35.43	H	0	55.49	73.98	18.49	PK
2310-2390	20.07	35.43	H	-24.73	30.76	53.98	23.22	AV
2310-2390	20.01	35.43	V	0	55.44	73.98	18.54	PK
2310-2390	20.01	35.43	V	-24.73	30.71	53.98	23.27	AV
2483.5-2500.0	20.26	35.57	H	0	55.82	73.98	18.16	PK
2483.5-2500.0	20.26	35.57	H	-24.73	31.09	53.98	22.89	AV
2483.5-2500.0	20.16	35.57	V	0	55.72	73.98	18.26	PK
2483.5-2500.0	20.16	35.57	V	-24.73	30.99	53.98	22.99	AV

Operation Mode EDR(8DPSK)

Operating Frequency 2402 MHz, 2480 MHz

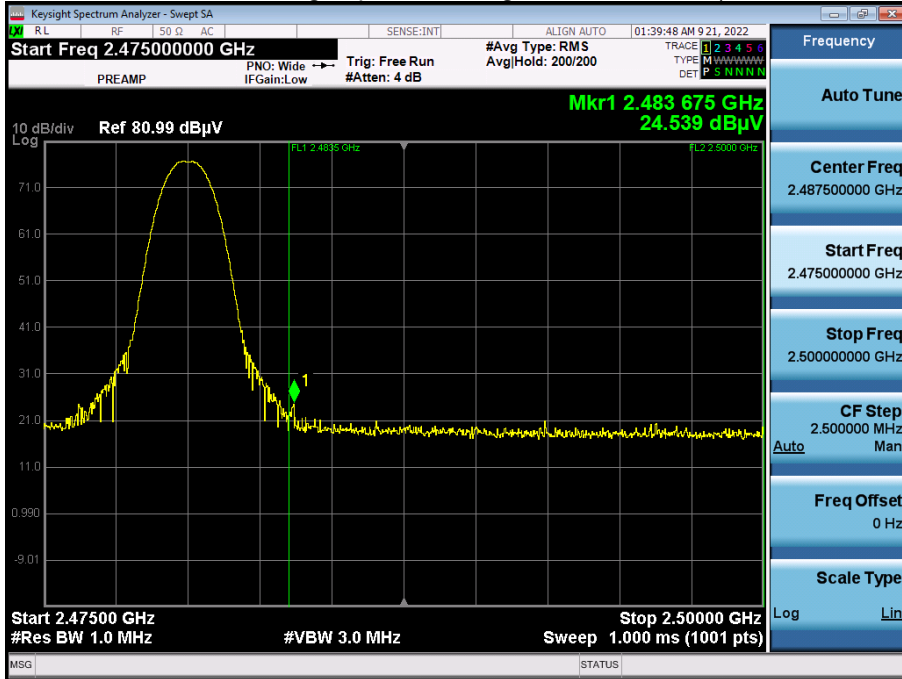
Channel No CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2310-2390	19.67	35.43	H	0	55.10	73.98	18.88	PK
2310-2390	19.67	35.43	H	-24.73	30.37	53.98	23.61	AV
2310-2390	19.66	35.43	V	0	55.09	73.98	18.89	PK
2310-2390	19.66	35.43	V	-24.73	30.36	53.98	23.62	AV
2483.5-2500.0	20.45	35.57	H	0	56.02	73.98	17.96	PK
2483.5-2500.0	20.45	35.57	H	-24.73	31.29	53.98	22.69	AV
2483.5-2500.0	20.09	35.57	V	0	55.65	73.98	18.33	PK
2483.5-2500.0	20.09	35.57	V	-24.73	30.92	53.98	23.06	AV

RESULT PLOTS

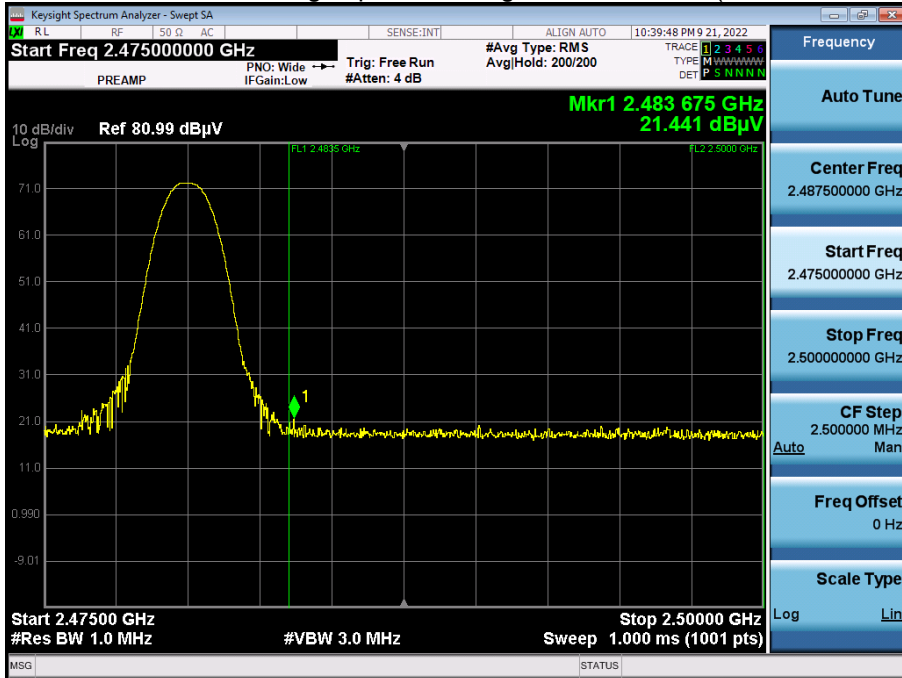
[Ant.1]

Radiated Restricted Band Edges plot – Average & Peak Result (GFSK, Ch.78, X-H)



[Ant.2]

Radiated Restricted Band Edges plot – Average & Peak Result (GFSK, Ch.78, Y-H)



Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

BT MODE_L1

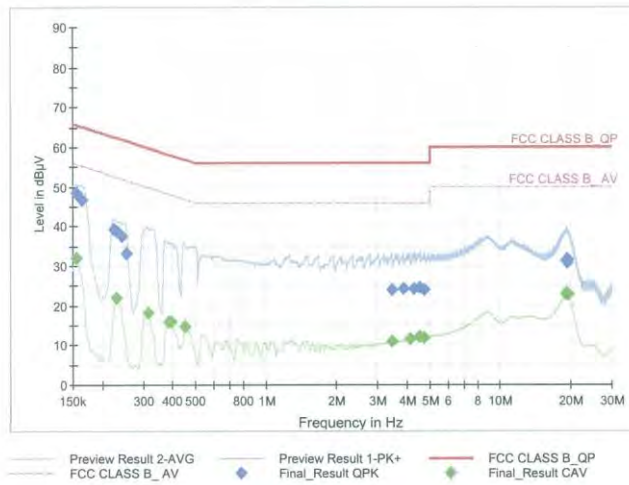
1 / 2

Test Report

Common Information

EUT : SM-S911B/DS
 Manufacturer : SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions : BT MODE_L1

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit + (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	48.52	65.75	17.24	9.000	L1	OFF	9.7
0.1635	46.73	65.28	18.55	9.000	L1	OFF	9.7
0.2243	39.22	62.66	23.44	9.000	L1	OFF	9.7
0.2333	38.73	62.33	23.60	9.000	L1	OFF	9.7
0.2423	37.56	62.02	24.46	9.000	L1	OFF	9.7
0.2535	33.13	61.64	28.51	9.000	L1	OFF	9.7
3.4610	23.88	56.00	32.12	9.000	L1	OFF	9.8
3.8593	24.18	56.00	31.82	9.000	L1	OFF	9.8
4.2800	24.22	56.00	31.78	9.000	L1	OFF	9.8
4.5500	24.53	56.00	31.47	9.000	L1	OFF	9.8
4.5568	24.40	56.00	31.60	9.000	L1	OFF	9.8
4.7278	24.06	56.00	31.94	9.000	L1	OFF	9.8
19.0985	31.13	60.00	28.88	9.000	L1	OFF	10.3
19.2088	31.45	60.00	28.55	9.000	L1	OFF	10.3
19.2380	31.35	60.00	28.65	9.000	L1	OFF	10.3
19.2853	31.55	60.00	28.45	9.000	L1	OFF	10.3
19.3528	31.64	60.00	28.36	9.000	L1	OFF	10.3
19.4338	30.98	60.00	29.02	9.000	L1	OFF	10.3

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BT MODE_L1

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Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	32.03	55.75	23.72	9.000	L1	OFF	9.7
0.2310	21.80	52.41	30.62	9.000	L1	OFF	9.7
0.3143	18.14	49.86	31.72	9.000	L1	OFF	9.7
0.3840	15.75	48.19	32.45	9.000	L1	OFF	9.7
0.3930	15.96	48.00	32.04	9.000	L1	OFF	9.7
0.4515	14.66	46.85	32.19	9.000	L1	OFF	9.7
3.4543	10.96	46.00	35.04	9.000	L1	OFF	9.8
3.4588	10.99	46.00	35.01	9.000	L1	OFF	9.8
4.1270	11.44	46.00	34.56	9.000	L1	OFF	9.8
4.5545	12.02	46.00	33.98	9.000	L1	OFF	9.8
4.7233	11.90	46.00	34.10	9.000	L1	OFF	9.8
4.7278	11.81	46.00	34.19	9.000	L1	OFF	9.8
19.1795	22.98	50.00	27.02	9.000	L1	OFF	10.3
19.1953	22.93	50.00	27.07	9.000	L1	OFF	10.3
19.2110	22.89	50.00	27.11	9.000	L1	OFF	10.3
19.2380	22.96	50.00	27.04	9.000	L1	OFF	10.3
19.4158	22.90	50.00	27.10	9.000	L1	OFF	10.3
19.5193	22.68	50.00	27.32	9.000	L1	OFF	10.3

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Conducted Emissions (Line 2)

BT MODE_N

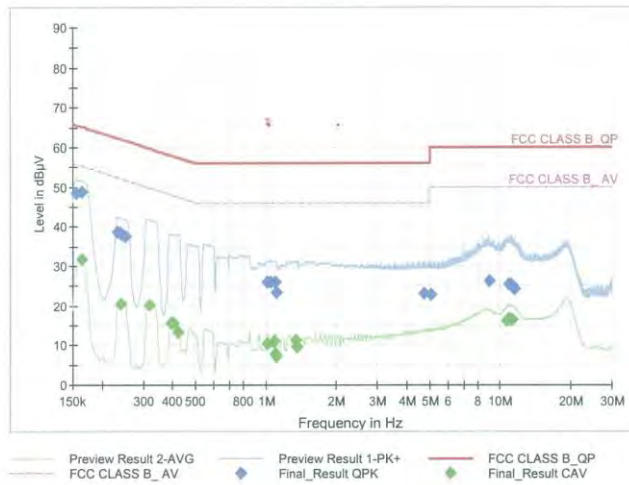
1 / 2

Test Report

Common Information

EUT : SM-S911B/DS
 Manufacturer : SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions : BT MODE_N

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	48.44	65.75	17.31	9.000	N	OFF	9.6
0.1635	48.67	65.28	16.61	9.000	N	OFF	9.6
0.2333	38.55	62.33	23.78	9.000	N	OFF	9.6
0.2400	38.48	62.10	23.62	9.000	N	OFF	9.6
0.2445	37.96	61.94	23.98	9.000	N	OFF	9.6
0.2513	37.54	61.72	24.18	9.000	N	OFF	9.6
1.0130	26.04	56.00	29.96	9.000	N	OFF	9.7
1.0558	25.95	56.00	30.05	9.000	N	OFF	9.7
1.1030	26.06	56.00	29.94	9.000	N	OFF	9.7
1.1165	23.27	56.00	32.73	9.000	N	OFF	9.7
4.7255	23.19	56.00	32.81	9.000	N	OFF	9.9
5.0675	22.78	60.00	37.22	9.000	N	OFF	9.9
9.0343	26.12	60.00	33.88	9.000	N	OFF	10.0
10.9265	25.38	60.00	34.62	9.000	N	OFF	10.1
11.0998	25.48	60.00	34.52	9.000	N	OFF	10.1
11.2280	24.97	60.00	35.03	9.000	N	OFF	10.1
11.3068	24.84	60.00	35.16	9.000	N	OFF	10.1
11.5295	24.34	60.00	35.66	9.000	N	OFF	10.1

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BT MODE_N

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Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1635	31.60	55.28	23.69	9.000	N	OFF	9.6
0.2400	20.45	52.10	31.64	9.000	N	OFF	9.6
0.3188	20.21	49.74	29.53	9.000	N	OFF	9.6
0.3930	15.48	48.00	32.52	9.000	N	OFF	9.6
0.4020	15.69	47.81	32.13	9.000	N	OFF	9.6
0.4223	13.14	47.40	34.26	9.000	N	OFF	9.6
1.0130	10.53	46.00	35.47	9.000	N	OFF	9.7
1.0918	11.02	46.00	34.98	9.000	N	OFF	9.7
1.1030	7.74	46.00	38.26	9.000	N	OFF	9.7
1.1075	7.27	46.00	38.73	9.000	N	OFF	9.7
1.3393	11.28	46.00	34.72	9.000	N	OFF	9.7
1.3618	9.49	46.00	36.51	9.000	N	OFF	9.7
10.7038	16.25	50.00	33.75	9.000	N	OFF	10.1
10.8950	16.35	50.00	33.65	9.000	N	OFF	10.1
10.9220	16.61	50.00	33.39	9.000	N	OFF	10.1
10.9288	16.67	50.00	33.33	9.000	N	OFF	10.1
11.0975	16.58	50.00	33.42	9.000	N	OFF	10.1
11.3090	16.48	50.00	33.52	9.000	N	OFF	10.1

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11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/22/2023	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/07/2023	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/04/2023	Annual
Signal Analyzer	N9030A	Keysight	MY55410508	09/06/2023	Annual
Power Meter	N1911A	Agilent	MY45100523	03/24/2023	Annual
Power Sensor	N1921A	Agilent	MY57820067	03/24/2023	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	10545	02/03/2023	Annual
DC Power Supply	E3646A	Agilent	MY40002937	12/14/2022	Annual
Attenuator(10 dB)(DC-26.5 GHz)	5910-N-50-010	H+S	00801	10/29/2022	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	03/07/2023	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A
Bluetooth Tester	CBT	Rohde & Schwarz	100808	02/22/2023	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
Controller	EM2090	Emco	060520	N/A	N/A
Turn Table	N/A	Ets	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/17/2024	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	08/16/2024	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1191	11/18/2023	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Amp & Filter Bank Switch Controller	FBSM-01A	TNM system	0	N/A	N/A
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/13/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/13/2023	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	02/07/2023	Annual
ATT(3 dB) + LNA2(6~18 GHz)	18B-03, CBL06185030	WEINSCHL CERNEX	N/A	12/22/2022	Annual
ATT(10 dB) + LNA1(0.1~18 GHz)	56-10, CBLU1183540B-01	Api tech, CERNEX	N/A	12/22/2022	Annual
High Pass Filter	WHKX10-2700-3000-18000-40SS	Wainwright Instruments	N/A	12/22/2022	Annual
High Pass Filter	WHKX8-6090-7000-18000-40SS	Wainwright Instruments	N/A	12/22/2022	Annual
Thru	COAXIAL ATTENUATOR	T&M SYSTEM	N/A	12/22/2022	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/11/2023	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	04/05/2023	Annual
Spectrum Analyzer	FSP(9 kHz ~ 30 GHz)	Rohde & Schwarz	836650/016	09/06/2023	Annual
Spectrum Analyzer	FSV40-N(9 kHz ~ 30 GHz)	Rohde & Schwarz	101068-SZ	09/07/2023	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2210-FC031-P