

7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

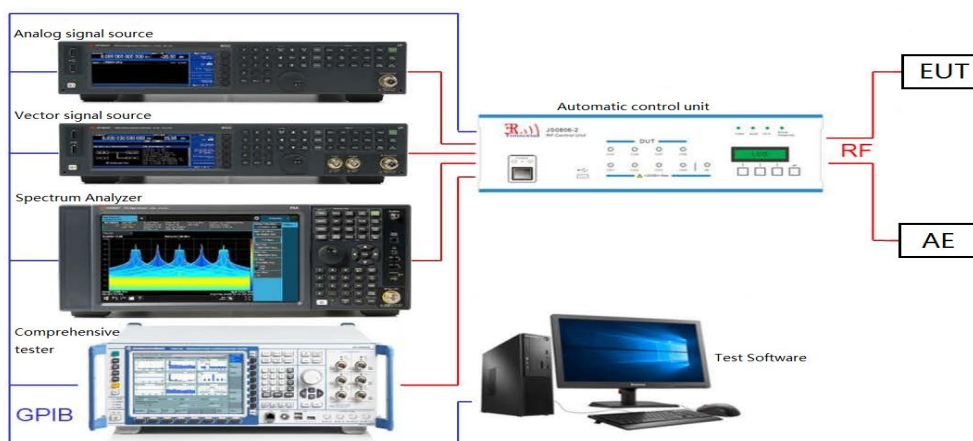
KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 – Section 11.11&11.12

7.5.3. Test Settintng

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = RMS
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

7.5.4. Test Setup



7.5.5. Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	7.44	-44.83	≤-22.56	PASS
	Ant2	Low	2412	7.56	-46.67	≤-22.44	PASS
	Ant1	High	2462	7.76	-40.58	≤-22.24	PASS
	Ant2	High	2462	9.15	-47.72	≤-20.85	PASS
11G	Ant1	Low	2412	8.01	-34.42	≤-21.99	PASS
	Ant2	Low	2412	8.22	-33.6	≤-21.78	PASS
	Ant1	High	2462	8.18	-39.21	≤-21.82	PASS
	Ant2	High	2462	9.24	-49.07	≤-20.76	PASS
11N20SISO	Ant1	Low	2412	7.87	-33.06	≤-22.13	PASS
	Ant2	Low	2412	7.27	-32.69	≤-22.73	PASS
	Ant1	High	2462	8.34	-48.65	≤-21.66	PASS
	Ant2	High	2462	7.64	-48.66	≤-22.36	PASS
11N40SISO	Ant1	Low	2422	2.75	-37.63	≤-27.26	PASS
	Ant2	Low	2422	4.24	-37.25	≤-25.76	PASS
	Ant1	High	2452	4.34	-48.02	≤-25.66	PASS
	Ant2	High	2452	4.45	-47.4	≤-25.55	PASS
11AX20SISO	Ant1	Low	2412	6.78	-33.11	≤-23.22	PASS
	Ant2	Low	2412	7.57	-32.05	≤-22.43	PASS
	Ant1	High	2462	8.42	-43.26	≤-21.59	PASS
	Ant2	High	2462	9.10	-47.07	≤-20.9	PASS
11AX40SISO	Ant1	Low	2422	4.09	-37.56	≤-25.91	PASS
	Ant2	Low	2422	3.92	-35.63	≤-26.08	PASS
	Ant1	High	2452	4.37	-47.06	≤-25.64	PASS
	Ant2	High	2452	4.35	-47.64	≤-25.65	PASS
11B-CDD	Ant1	Low	2412	6.27	-48.37	≤-23.73	PASS
	Ant2	Low	2412	5.97	-48.29	≤-24.03	PASS
	Ant1	High	2462	7.14	-47.28	≤-22.87	PASS
	Ant2	High	2462	6.42	-48.64	≤-23.58	PASS
11G-CDD	Ant1	Low	2412	6.16	-36.57	≤-23.84	PASS
	Ant2	Low	2412	4.12	-36.82	≤-25.88	PASS
	Ant1	High	2462	5.54	-45.68	≤-24.46	PASS
	Ant2	High	2462	6.62	-47.83	≤-23.38	PASS
11N20MIMO	Ant1	Low	2412	5.10	-34.67	≤-24.9	PASS

	Ant2	Low	2412	4.64	-34.99	≤ -25.36	PASS
	Ant1	High	2462	6.41	-47.26	≤ -23.59	PASS
	Ant2	High	2462	5.35	-46.61	≤ -24.65	PASS
11N40MIMO	Ant1	Low	2422	1.43	-39.46	≤ -28.58	PASS
	Ant2	Low	2422	1.51	-40.31	≤ -28.49	PASS
	Ant1	High	2452	2.14	-44.55	≤ -27.86	PASS
	Ant2	High	2452	1.44	-47.67	≤ -28.56	PASS
11AX20MIMO	Ant1	Low	2412	4.74	-35.27	≤ -25.26	PASS
	Ant2	Low	2412	4.73	-35.7	≤ -25.28	PASS
	Ant1	High	2462	4.51	-44.65	≤ -25.49	PASS
	Ant2	High	2462	5.88	-48.71	≤ -24.12	PASS
11AX40MIMO	Ant1	Low	2422	1.73	-40.08	≤ -28.27	PASS
	Ant2	Low	2422	2.07	-39.23	≤ -27.93	PASS
	Ant1	High	2452	1.77	-45.95	≤ -28.23	PASS
	Ant2	High	2452	0.51	-49.68	≤ -29.49	PASS

Test Mode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.56	7.56	---	PASS
			30~1000	7.56	-61.1	≤ -22.44	PASS
			1000~26500	7.56	-48.84	≤ -22.44	PASS
	Ant2	2412	Reference	7.01	7.01	---	PASS
			30~1000	7.01	-61.64	≤ -22.99	PASS
			1000~26500	7.01	-43.5	≤ -22.99	PASS
	Ant1	2437	Reference	7.14	7.14	---	PASS
			30~1000	7.14	-62.13	≤ -22.86	PASS
			1000~26500	7.14	-44.74	≤ -22.86	PASS
	Ant2	2437	Reference	7.01	7.01	---	PASS
			30~1000	7.01	-61.28	≤ -22.99	PASS
			1000~26500	7.01	-33.37	≤ -22.99	PASS
	Ant1	2462	Reference	7.39	7.39	---	PASS
			30~1000	7.39	-61.91	≤ -22.61	PASS
			1000~26500	7.39	-46.13	≤ -22.61	PASS
	Ant2	2462	Reference	8.03	8.03	---	PASS
			30~1000	8.03	-61.94	≤ -21.97	PASS
			1000~26500	8.03	-46.83	≤ -21.97	PASS

11G	Ant1	2412	Reference	7.94	7.94	---	PASS
			30~1000	7.94	-61.17	≤ -22.06	PASS
			1000~26500	7.94	-47.13	≤ -22.06	PASS
	Ant2	2412	Reference	7.87	7.87	---	PASS
			30~1000	7.87	-62.18	≤ -22.13	PASS
			1000~26500	7.87	-47.37	≤ -22.13	PASS
	Ant1	2437	Reference	8.24	8.24	---	PASS
			30~1000	8.24	-60.9	≤ -21.76	PASS
			1000~26500	8.24	-49.75	≤ -21.76	PASS
	Ant2	2437	Reference	8.06	8.06	---	PASS
			30~1000	8.06	-61.97	≤ -21.94	PASS
			1000~26500	8.06	-50.8	≤ -21.94	PASS
	Ant1	2462	Reference	8.35	8.35	---	PASS
			30~1000	8.35	-56.38	≤ -21.65	PASS
			1000~26500	8.35	-51.38	≤ -21.65	PASS
	Ant2	2462	Reference	8.51	8.51	---	PASS
			30~1000	8.51	-61.99	≤ -21.49	PASS
			1000~26500	8.51	-37.35	≤ -21.49	PASS
11N20SISO	Ant1	2412	Reference	8.03	8.03	---	PASS
			30~1000	8.03	-56.35	≤ -21.97	PASS
			1000~26500	8.03	-43.51	≤ -21.97	PASS
	Ant2	2412	Reference	7.93	7.93	---	PASS
			30~1000	7.93	-61.73	≤ -22.07	PASS
			1000~26500	7.93	-42.82	≤ -22.07	PASS
	Ant1	2437	Reference	7.29	7.29	---	PASS
			30~1000	7.29	-58.76	≤ -22.71	PASS
			1000~26500	7.29	-33.96	≤ -22.71	PASS
	Ant2	2437	Reference	8.01	8.01	---	PASS
			30~1000	8.01	-61.89	≤ -21.99	PASS
			1000~26500	8.01	-41.43	≤ -21.99	PASS
	Ant1	2462	Reference	6.68	6.68	---	PASS
			30~1000	6.68	-61.92	≤ -23.32	PASS
			1000~26500	6.68	-45.13	≤ -23.32	PASS
	Ant2	2462	Reference	8.47	8.47	---	PASS
			30~1000	8.47	-61.54	≤ -21.53	PASS
			1000~26500	8.47	-45.27	≤ -21.53	PASS

11N40SISO	Ant1	2422	Reference	3.35	3.35	---	PASS
			30~1000	3.35	-61.61	≤ -26.65	PASS
			1000~26500	3.35	-50.6	≤ -26.65	PASS
	Ant2	2422	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-61.23	≤ -26.46	PASS
			1000~26500	3.54	-41.81	≤ -26.46	PASS
	Ant1	2437	Reference	4.12	4.12	---	PASS
			30~1000	4.12	-61.69	≤ -25.88	PASS
			1000~26500	4.12	-39.57	≤ -25.88	PASS
	Ant2	2437	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-61.8	≤ -26.16	PASS
			1000~26500	3.84	-52.01	≤ -26.16	PASS
11AX20SISO	Ant1	2412	Reference	7.91	7.91	---	PASS
			30~1000	7.91	-61.68	≤ -22.09	PASS
			1000~26500	7.91	-49.75	≤ -22.09	PASS
	Ant2	2412	Reference	7.53	7.53	---	PASS
			30~1000	7.53	-61.86	≤ -22.47	PASS
			1000~26500	7.53	-51.85	≤ -22.47	PASS
	Ant1	2437	Reference	6.82	6.82	---	PASS
			30~1000	6.82	-61.58	≤ -23.18	PASS
			1000~26500	6.82	-50.62	≤ -23.18	PASS
	Ant2	2437	Reference	7.49	7.49	---	PASS
			30~1000	7.49	-62.08	≤ -22.51	PASS
			1000~26500	7.49	-50.13	≤ -22.51	PASS
	Ant1	2462	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-60.49	≤ -22.14	PASS
			1000~26500	7.86	-51.4	≤ -22.14	PASS
	Ant2	2462	Reference	8.16	8.16	---	PASS
			30~1000	8.16	-62.01	≤ -21.84	PASS
			1000~26500	8.16	-47.92	≤ -21.84	PASS

11AX40SISO	Ant1	2422	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-61.8	≤ -26.18	PASS
			1000~26500	3.82	-52.19	≤ -26.18	PASS
	Ant2	2422	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-61.47	≤ -26.26	PASS
			1000~26500	3.74	-40.14	≤ -26.26	PASS
	Ant1	2437	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-61.48	≤ -26.1	PASS
			1000~26500	3.90	-48.56	≤ -26.1	PASS
	Ant2	2437	Reference	3.64	3.64	---	PASS
			30~1000	3.64	-61.37	≤ -26.36	PASS
			1000~26500	3.64	-46.54	≤ -26.36	PASS
	Ant1	2452	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-60.66	≤ -26.16	PASS
			1000~26500	3.84	-51.73	≤ -26.16	PASS
	Ant2	2452	Reference	3.63	3.63	---	PASS
			30~1000	3.63	-61.57	≤ -26.37	PASS
			1000~26500	3.63	-52.11	≤ -26.37	PASS
11B-CDD	Ant1	2412	Reference	4.95	4.95	---	PASS
			30~1000	4.95	-61.66	≤ -25.05	PASS
			1000~26500	4.95	-52.22	≤ -25.05	PASS
	Ant2	2412	Reference	5.13	5.13	---	PASS
			30~1000	5.13	-61.33	≤ -24.87	PASS
			1000~26500	5.13	-52.03	≤ -24.87	PASS
	Ant1	2437	Reference	5.25	5.25	---	PASS
			30~1000	5.25	-61.99	≤ -24.75	PASS
			1000~26500	5.25	-51.01	≤ -24.75	PASS
	Ant2	2437	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-62.17	≤ -24.68	PASS
			1000~26500	5.32	-52.34	≤ -24.68	PASS
	Ant1	2462	Reference	5.61	5.61	---	PASS
			30~1000	5.61	-61.67	≤ -24.39	PASS
			1000~26500	5.61	-52.59	≤ -24.39	PASS
	Ant2	2462	Reference	5.99	5.99	---	PASS
			30~1000	5.99	-61.74	≤ -24.01	PASS
			1000~26500	5.99	-52.51	≤ -24.01	PASS

11G-CDD	Ant1	2412	Reference	5.66	5.66	---	PASS
			30~1000	5.66	-61.64	≤ -24.34	PASS
			1000~26500	5.66	-52.97	≤ -24.34	PASS
	Ant2	2412	Reference	4.79	4.79	---	PASS
			30~1000	4.79	-61.56	≤ -25.21	PASS
			1000~26500	4.79	-51.05	≤ -25.21	PASS
	Ant1	2437	Reference	4.63	4.63	---	PASS
			30~1000	4.63	-61.67	≤ -25.37	PASS
			1000~26500	4.63	-44.79	≤ -25.37	PASS
	Ant2	2437	Reference	5.60	5.60	---	PASS
			30~1000	5.60	-60.63	≤ -24.4	PASS
			1000~26500	5.60	-43.75	≤ -24.4	PASS
	Ant1	2462	Reference	5.81	5.81	---	PASS
			30~1000	5.81	-61.08	≤ -24.19	PASS
			1000~26500	5.81	-53.11	≤ -24.19	PASS
	Ant2	2462	Reference	5.40	5.40	---	PASS
			30~1000	5.40	-61.72	≤ -24.6	PASS
			1000~26500	5.40	-49.78	≤ -24.6	PASS
11N20MIMO	Ant1	2412	Reference	4.81	4.81	---	PASS
			30~1000	4.81	-61.94	≤ -25.19	PASS
			1000~26500	4.81	-52.64	≤ -25.19	PASS
	Ant2	2412	Reference	5.48	5.48	---	PASS
			30~1000	5.48	-61.87	≤ -24.52	PASS
			1000~26500	5.48	-52.05	≤ -24.52	PASS
	Ant1	2437	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-62.08	≤ -26.04	PASS
			1000~26500	3.96	-52.51	≤ -26.04	PASS
	Ant2	2437	Reference	4.90	4.90	---	PASS
			30~1000	4.90	-61.26	≤ -25.1	PASS
			1000~26500	4.90	-43.99	≤ -25.1	PASS
	Ant1	2462	Reference	5.21	5.21	---	PASS
			30~1000	5.21	-61.87	≤ -24.79	PASS
			1000~26500	5.21	-48.73	≤ -24.79	PASS
	Ant2	2462	Reference	5.83	5.83	---	PASS
			30~1000	5.83	-61.11	≤ -24.17	PASS
			1000~26500	5.83	-53.08	≤ -24.17	PASS

11N40MIMO	Ant1	2422	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-61.82	≤ -30.05	PASS
			1000~26500	-0.05	-44.53	≤ -30.05	PASS
	Ant2	2422	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-61.79	≤ -29.36	PASS
			1000~26500	0.64	-48.03	≤ -29.36	PASS
	Ant1	2437	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-62.15	≤ -29.53	PASS
			1000~26500	0.47	-51.19	≤ -29.53	PASS
	Ant2	2437	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-61.34	≤ -28.76	PASS
			1000~26500	1.24	-51.74	≤ -28.76	PASS
	Ant1	2452	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-61.4	≤ -29.04	PASS
			1000~26500	0.96	-52.69	≤ -29.04	PASS
	Ant2	2452	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-61.75	≤ -28.89	PASS
			1000~26500	1.11	-40.18	≤ -28.89	PASS
11AX20MIMO	Ant1	2412	Reference	4.95	4.95	---	PASS
			30~1000	4.95	-61.91	≤ -25.05	PASS
			1000~26500	4.95	-52.51	≤ -25.05	PASS
	Ant2	2412	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-62.44	≤ -26.76	PASS
			1000~26500	3.24	-52.75	≤ -26.76	PASS
	Ant1	2437	Reference	5.87	5.87	---	PASS
			30~1000	5.87	-61.78	≤ -24.13	PASS
			1000~26500	5.87	-49.02	≤ -24.13	PASS
	Ant2	2437	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-62.19	≤ -25.32	PASS
			1000~26500	4.68	-45.12	≤ -25.32	PASS
	Ant1	2462	Reference	4.62	4.62	---	PASS
			30~1000	4.62	-61.38	≤ -25.38	PASS
			1000~26500	4.62	-51.26	≤ -25.38	PASS
	Ant2	2462	Reference	5.38	5.38	---	PASS
			30~1000	5.38	-61.91	≤ -24.62	PASS
			1000~26500	5.38	-53.1	≤ -24.62	PASS

11AX40MIMO	Ant1	2422	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-61.64	≤ -29.21	PASS
			1000~26500	0.79	-51.72	≤ -29.21	PASS
	Ant2	2422	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-61.65	≤ -29.2	PASS
			1000~26500	0.80	-45.76	≤ -29.2	PASS
	Ant1	2437	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-61.91	≤ -28.17	PASS
			1000~26500	1.83	-52.05	≤ -28.17	PASS
	Ant2	2437	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-61.33	≤ -28.99	PASS
			1000~26500	1.01	-43.33	≤ -28.99	PASS
	Ant1	2452	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-60.96	≤ -29.02	PASS
			1000~26500	0.98	-52.23	≤ -29.02	PASS
	Ant2	2452	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-61.31	≤ -28.93	PASS
			1000~26500	1.07	-42.27	≤ -28.93	PASS

Test Graphs of Band edge

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462



11B_Ant2_High_2462



11G_Ant1_Low_2412



11G_Ant2_Low_2412



11G_Ant1_High_2462



11G_Ant2_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant2_Low_2412



11N20SISO_Ant1_High_2462



11N20SISO_Ant2_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant2_Low_2422



11N40SISO_Ant1_High_2452



11N40SISO_Ant2_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant2_Low_2412



11AX20SISO_Ant1_High_2462



11AX20SISO_Ant2_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_Ant2_Low_2422



11AX40SISO_Ant1_High_2452



11AX40SISO_Ant2_High_2452



11B-CDD_Ant1_Low_2412



11B-CDD_Ant2_Low_2412



11B-CDD_Ant1_High_2462



11B-CDD_Ant2_High_2462



11G-CDD_Ant1_Low_2412



11G-CDD_Ant2_Low_2412

