		Δ f2max (kHz)	169.68	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.68	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	5	Δ f1avg (kHz)	164.59	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.22	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.51	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	6	Δ f1avg (kHz)	164.77	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.73	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.35	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	7	Δ f1avg (kHz)	164.90	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	171.71	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.10	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	8	Δ f1avg (kHz)	164.87	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.03	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.70	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	9	Δ f1avg (kHz)	165.12	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.54	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.26	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	10	Δ f1avg (kHz)	165.34	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.57	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.63	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
High operating Frequency (2480 MHz)	1	Δ f1avg (kHz)	169.04	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.65	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.99	N/A	N/A

		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	2	Δ f1avg (kHz)	168.44	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.59	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.72	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	3	Δ f1avg (kHz)	168.32	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.87	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.69	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	4	Δ f1avg (kHz)	168.35	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.59	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.78	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	5	Δ f1avg (kHz)	168.50	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.62	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.76	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	6	Δ f1avg (kHz)	169.72	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.28	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.87	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	7	Δ f1avg (kHz)	169.14	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.12	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.52	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	8	Δ f1avg (kHz)	168.21	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.07	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	160.14	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	9	Δ f1avg (kHz)	169.27	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.46	≥ 115 kHz	Pass

		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.82	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	10	Δ f1avg (kHz)	168.43	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.15	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.40	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass

3.3.8. Test Case: TRM/CA/08/C - Initial Carrier Frequency Tolerance

Expected Outcome:

All values as measured must fulfill the following conditions:

Each of the EUT's carrier frequency f0 as measured must be within ±75kHz from the Eut's chosen nominal carrier frequency fTX

1. fTX – 75 kHz ≤ f 0 ≤ fTX + 75 kHz.

Test Frequency (MHz)	Packets No.	Carrier Frequency (KHz)	Limit (kHz)	Verdict
Low operating Frequency (2402 MHz)	1	-5.53	-75≤ f0 ≤ +75	Pass
	2	-9.11	-75≤ f0 ≤ +75	Pass
	3	-9.81	-75≤ f0 ≤ +75	Pass
	4	-7.14	-75≤ f0 ≤ +75	Pass
	5	-7.23	-75≤ f0 ≤ +75	Pass
	6	-8.37	-75≤ f0 ≤ +75	Pass
	7	-6.92	-75≤ f0 ≤ +75	Pass
	8	-6.09	-75≤ f0 ≤ +75	Pass
	9	-8.82	-75≤ f0 ≤ +75	Pass
	10	-7.93	-75≤ f0 ≤ +75	Pass
Mid operating Frequency (2441 MHz)	1	-1.54	-75≤ f0 ≤ +75	Pass
	2	-4.62	-75≤ f0 ≤ +75	Pass
	3	-2.32	-75≤ f0 ≤ +75	Pass
	4	0.02	-75≤ f0 ≤ +75	Pass
	5	-3.81	-75≤ f0 ≤ +75	Pass
	6	-0.94	-75≤ f0 ≤ +75	Pass
	7	-3.56	-75≤ f0 ≤ +75	Pass
	8	-1.08	-75≤ f0 ≤ +75	Pass
	9	0.09	-75≤ f0 ≤ +75	Pass
	10	-0.18	-75≤ f0 ≤ +75	Pass

High operating Frequency (2480 MHz)	1	1.71	-75≤ f0 ≤ +75	Pass
	2	-2.03	-75≤ f0 ≤ +75	Pass
	3	-0.60	-75≤ f0 ≤ +75	Pass
	4	-1.20	-75≤ f0 ≤ +75	Pass
	5	-3.52	-75≤ f0 ≤ +75	Pass
	6	-1.64	-75≤ f0 ≤ +75	Pass
	7	0.95	-75≤ f0 ≤ +75	Pass
	8	-2.10	-75≤ f0 ≤ +75	Pass
	9	-0.48	-75≤ f0 ≤ +75	Pass
	10	0.27	-75≤ f0 ≤ +75	Pass

3.3.9. Test Case: TRM/CA/09/C - Carrier Frequency Drift

Expected Outcome:

All values as measured must fulfill the following conditions:

1. One slot packet -25kHz≤ MAX Frequency Drift ≤+25kHz
2. Three slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
3. Five slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
4. The maximum drift rate is 20000 Hz / 50μs.

Packet Type: DH1

Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-9.14	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.03	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-8.85	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.49	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-9.38	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	2.52	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-8.95	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	1.67	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-9.07	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.76	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-8.80	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	1.62	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-8.68	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	2.80	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-9.63	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.96	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-8.43	-25≤ fmax≤+25	Pass

	9	Maximum Drift Rate(kHz/50μs)	2.00	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-9.07	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	2.99	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	-7.54	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.03	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-8.14	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.02	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-7.75	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.45	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-7.70	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.46	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-6.90	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.22	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-7.08	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.17	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-7.44	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.20	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-7.99	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.68	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-7.72	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.18	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-7.56	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.50	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-5.09	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.58	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-6.21	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.81	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.37	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.45	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.02	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.05	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-5.44	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.84	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-6.27	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.54	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-4.73	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	2.02	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-7.06	-25≤ fmax≤+25	Pass

	8	Maximum Drift Rate(kHz/50μs)	3.43	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.89	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.37	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.27	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.77	≤ 20	Pass
Packet Type: DH3					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-9.71	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.77	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-9.12	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.47	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-9.84	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.74	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-9.07	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.27	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-9.09	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.32	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-10.11	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.22	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-9.23	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	2.50	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-10.37	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.58	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-9.67	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	2.89	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-9.25	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.86	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	-8.13	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	5.94	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-7.86	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.05	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-7.95	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.37	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-8.15	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.43	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-7.61	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	4.82	≤ 20	Pass

	6	MAX Frequency Drift(kHz)	-8.01	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	5.13	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-8.45	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	3.71	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-7.46	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.33	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-8.03	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.15	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-7.99	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.75	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-6.04	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	3.48	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-6.49	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.88	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.73	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	4.48	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-6.24	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	5.01	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-5.95	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.94	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-5.99	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.77	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-5.76	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	3.34	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.79	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.41	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.83	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.81	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-6.58	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	4.06	≤ 20	Pass
Packet Type: DH5					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-9.86	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.91	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-9.31	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.91	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-9.66	-25≤ fmax≤+25	Pass

	3	Maximum Drift Rate(kHz/50μs)	3.29	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-9.43	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.32	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-9.97	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.33	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-9.84	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.37	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-9.53	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.13	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-9.59	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.01	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-9.51	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	4.84	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-9.58	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.05	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	-8.35	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	5.23	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-7.91	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.48	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-8.64	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	4.08	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-7.72	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.60	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-7.94	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.83	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-7.96	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.10	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-8.09	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	7.16	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-8.08	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.22	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-8.31	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.53	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-8.25	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.56	≤ 20	Pass
	1	MAX Frequency Drift(kHz)	-6.81	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	5.56	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-6.58	-25≤ fmax≤+25	Pass

High operating Frequency (2480 MHz)	2	Maximum Drift Rate(kHz/50μs)	4.31	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.73	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	2.81	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.78	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.78	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-6.25	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.98	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-6.48	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.94	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-6.31	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.31	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-6.30	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.07	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-6.40	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.75	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.89	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.88	≤ 20	Pass

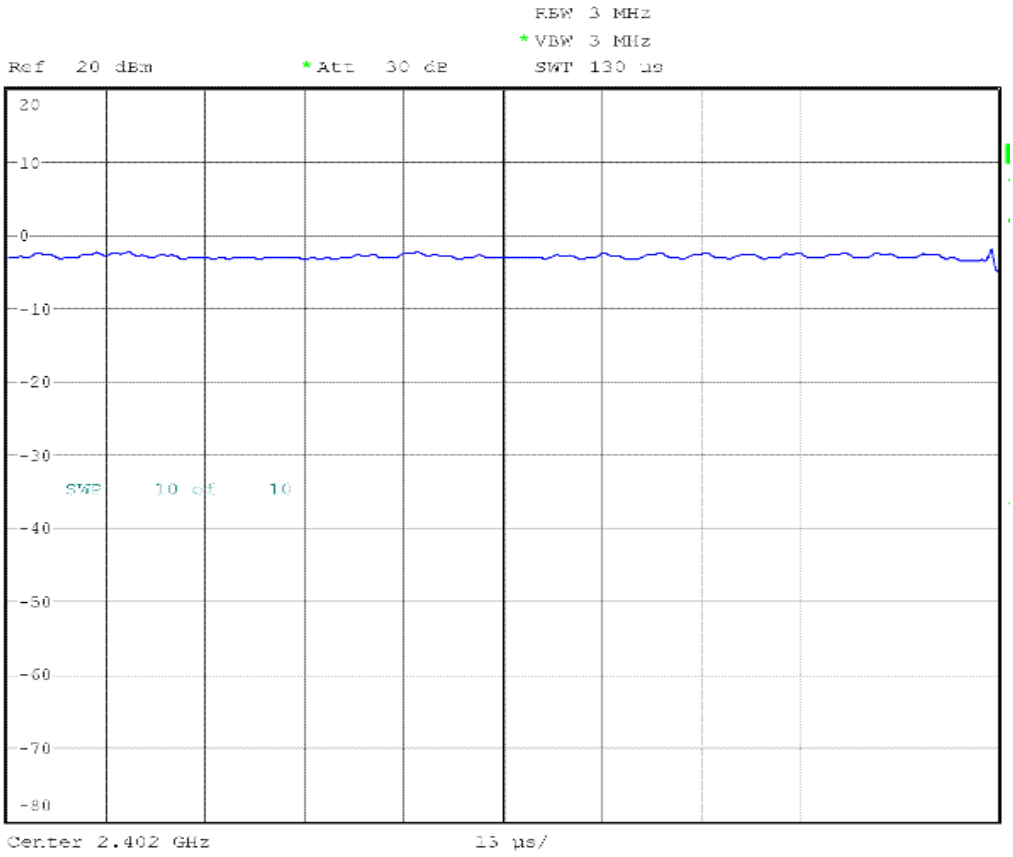
3.3.10. Test Case: TRM/CA/10/C - EDR Relative Transmit Power

Expected Outcome:

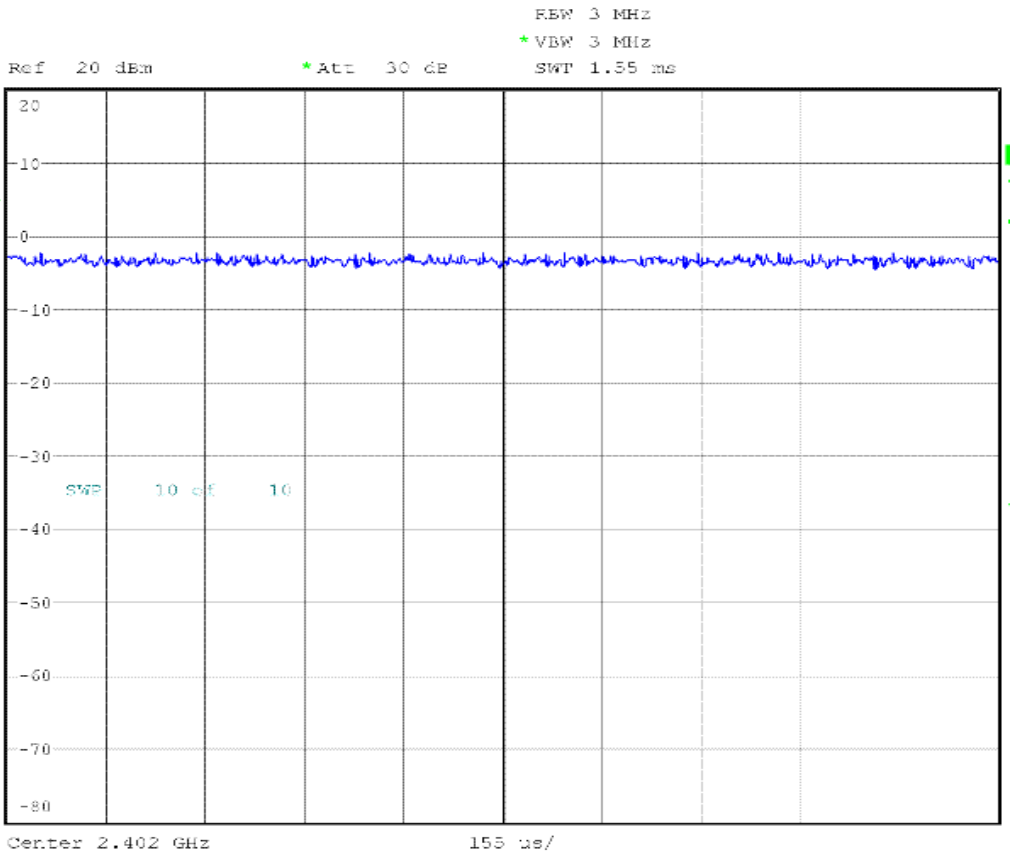
All values as measured must fulfill the following conditions:

1. For all pairs of results: (PGFSK– 4dB) < PDPSK < (PGFSK + 1dB)

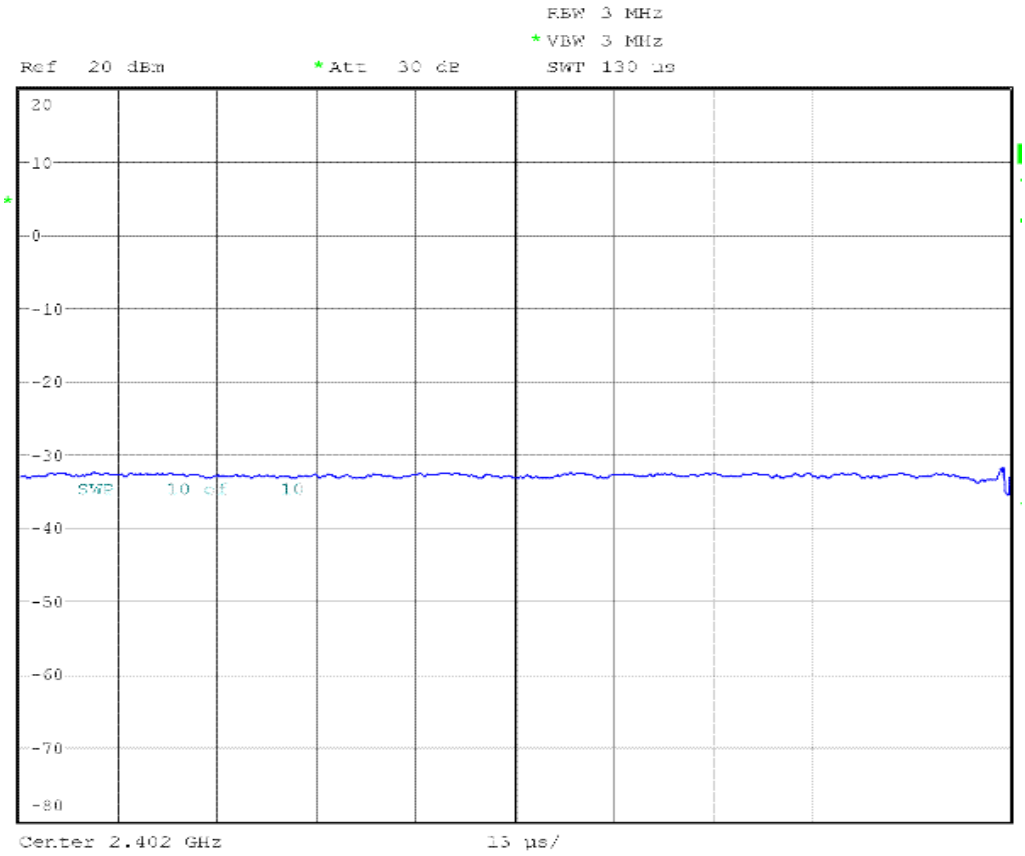
Packet Type:2DH5				
Test Frequency (MHz)	Average Power PGFSK (dBm)	Average Power PDPSK (dBm)	Limit (dBm)	Verdict
2402	7.60	7.22	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2402	-22.26	-22.51	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	7.27	6.92	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	-22.46	-22.74	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	6.48	6.18	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	-23.19	-23.42	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
Packet Type: 3DH5				
Test Frequency (MHz)	Average Power PGFSK (dBm)	Average Power PDPSK (dBm)	Limit (dBm)	Verdict
2402	7.60	7.28	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2402	-22.24	-22.55	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	7.27	6.85	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	-22.47	-22.78	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	6.50	6.14	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	-23.17	-23.48	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass



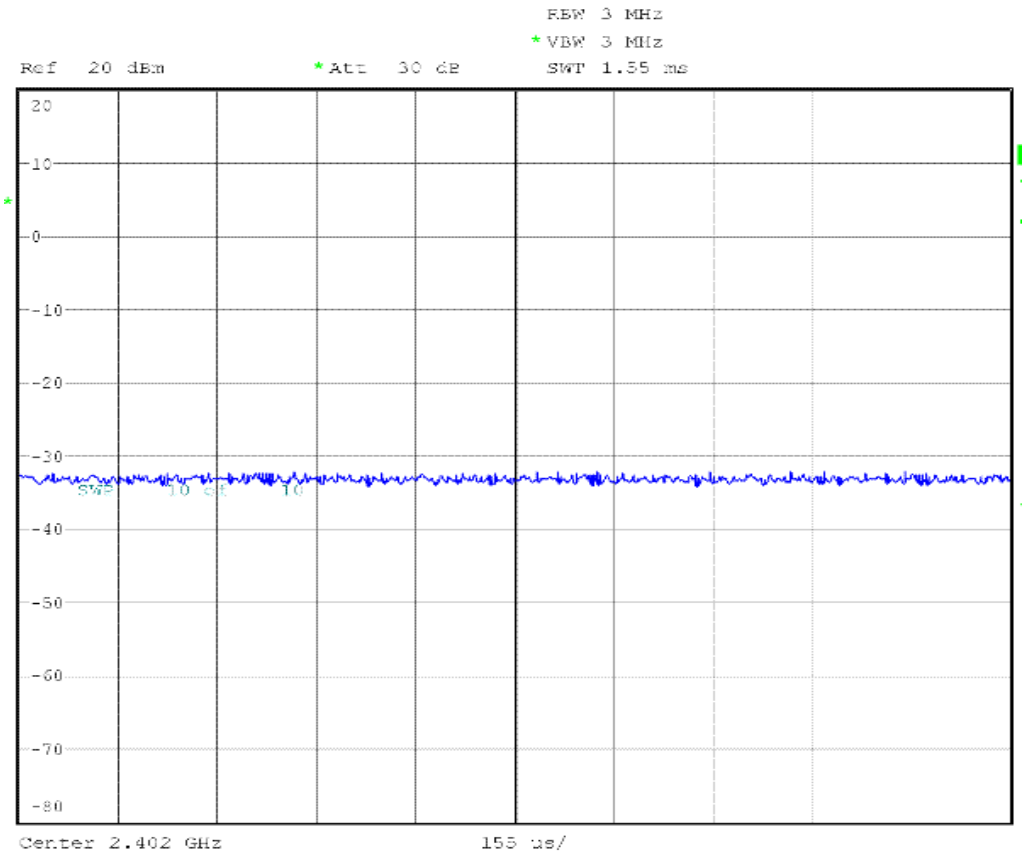
EDR Relative Transmit Power GFSK Low Max (2DH5)



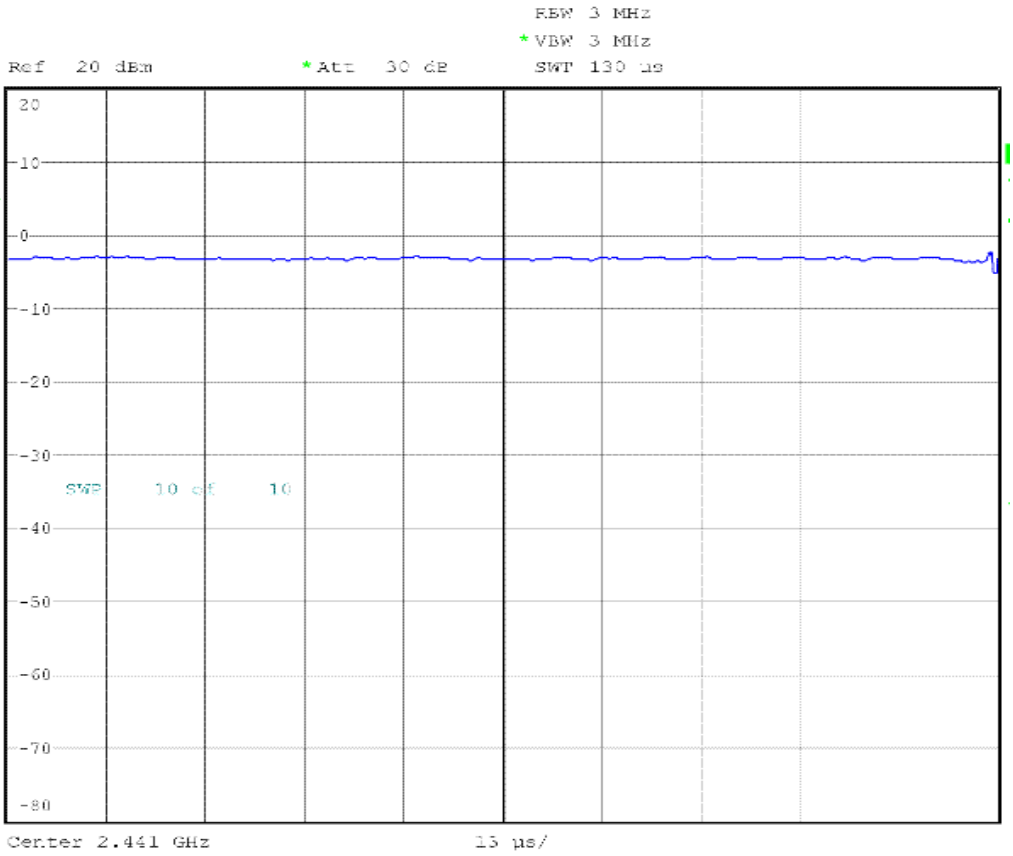
EDR Relative Transmit Power DPSK Low Max (2DH5)



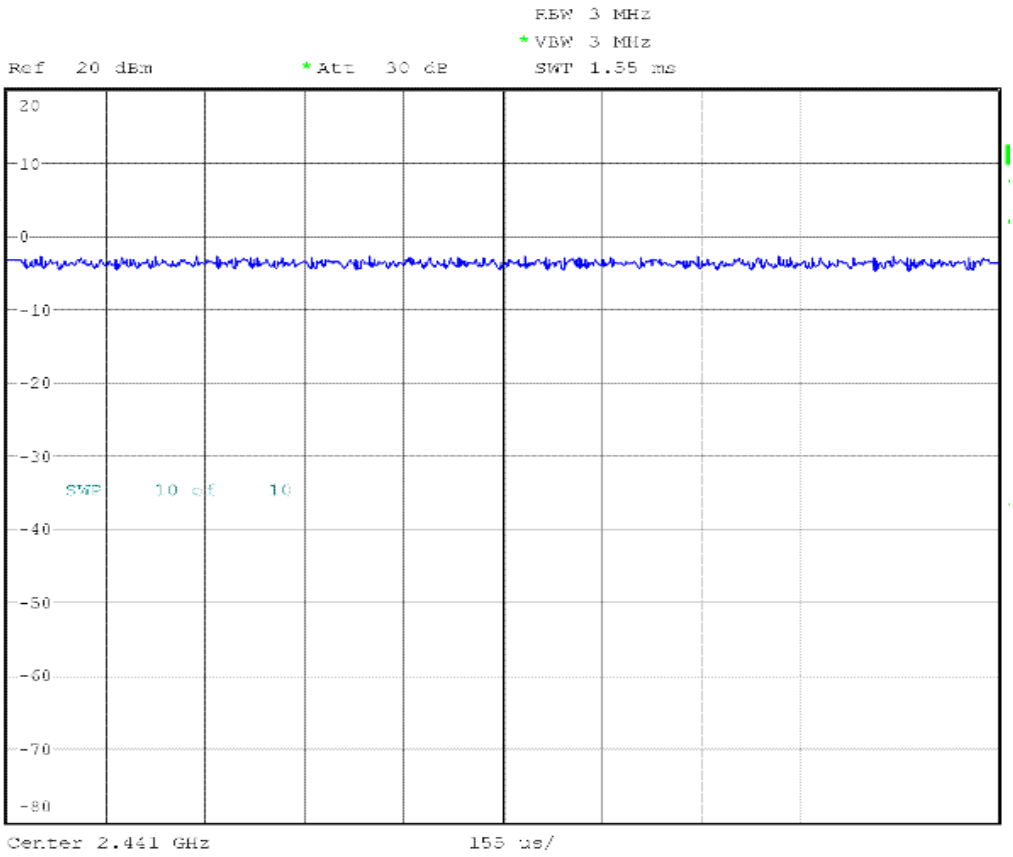
EDR Relative Transmit Power GFSK Low Min (2DH5)



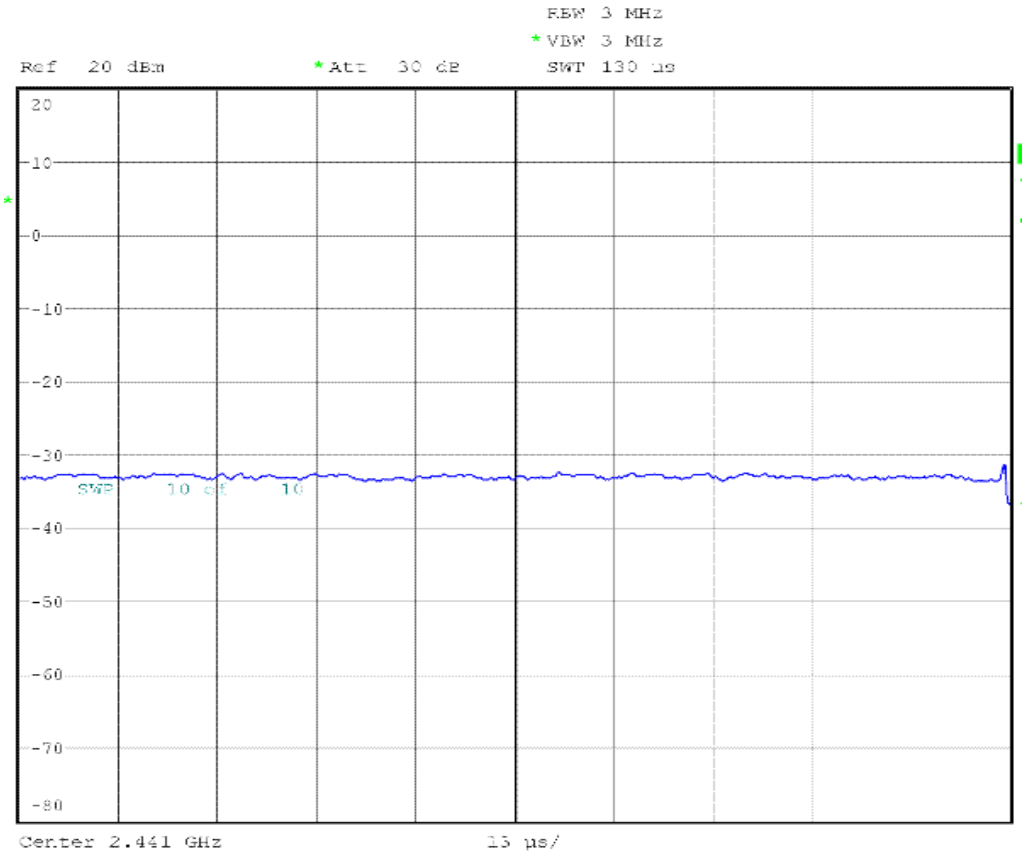
EDR Relative Transmit Power DPSK Low Min (2DH5)



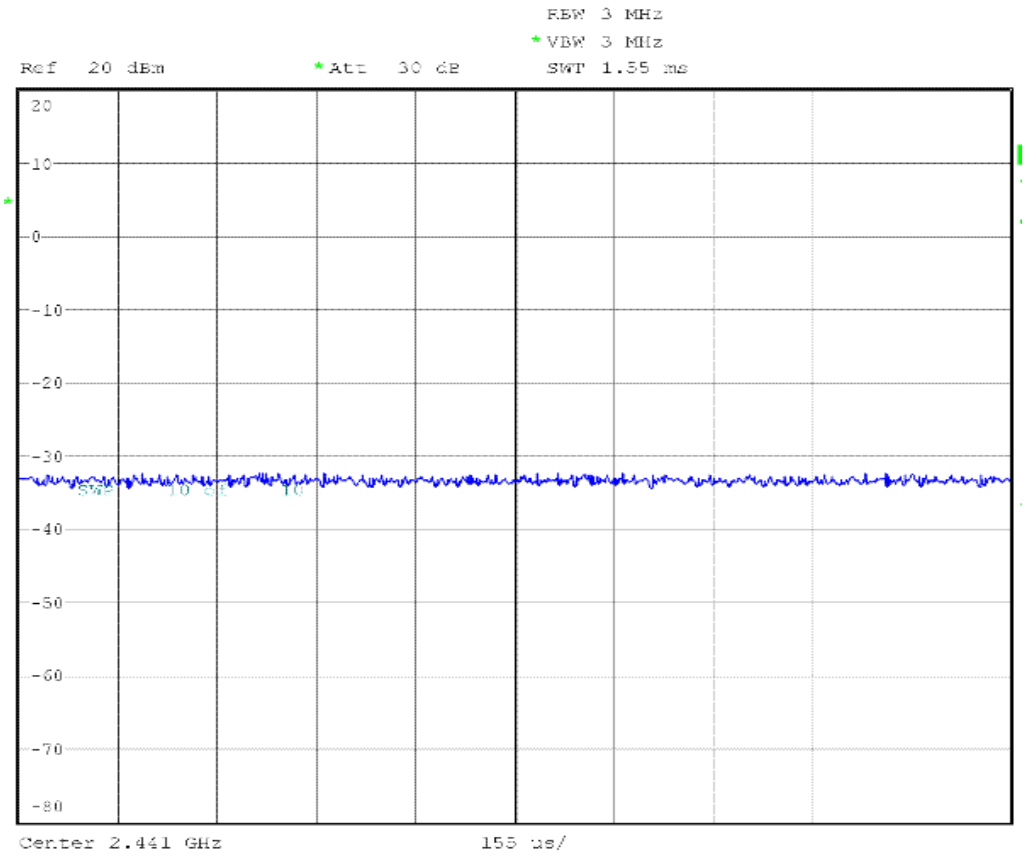
EDR Relative Transmit Power GFSK Mid Max (2DH5)



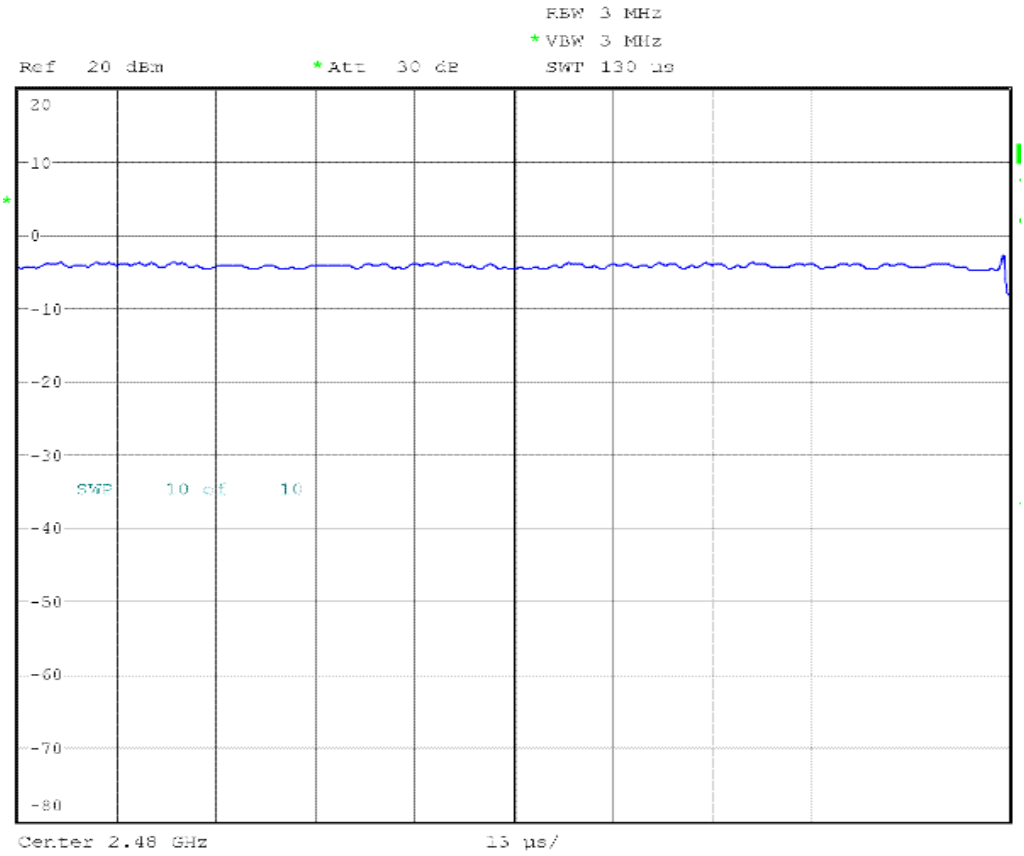
EDR Relative Transmit Power DPSK Mid Max (2DH5)



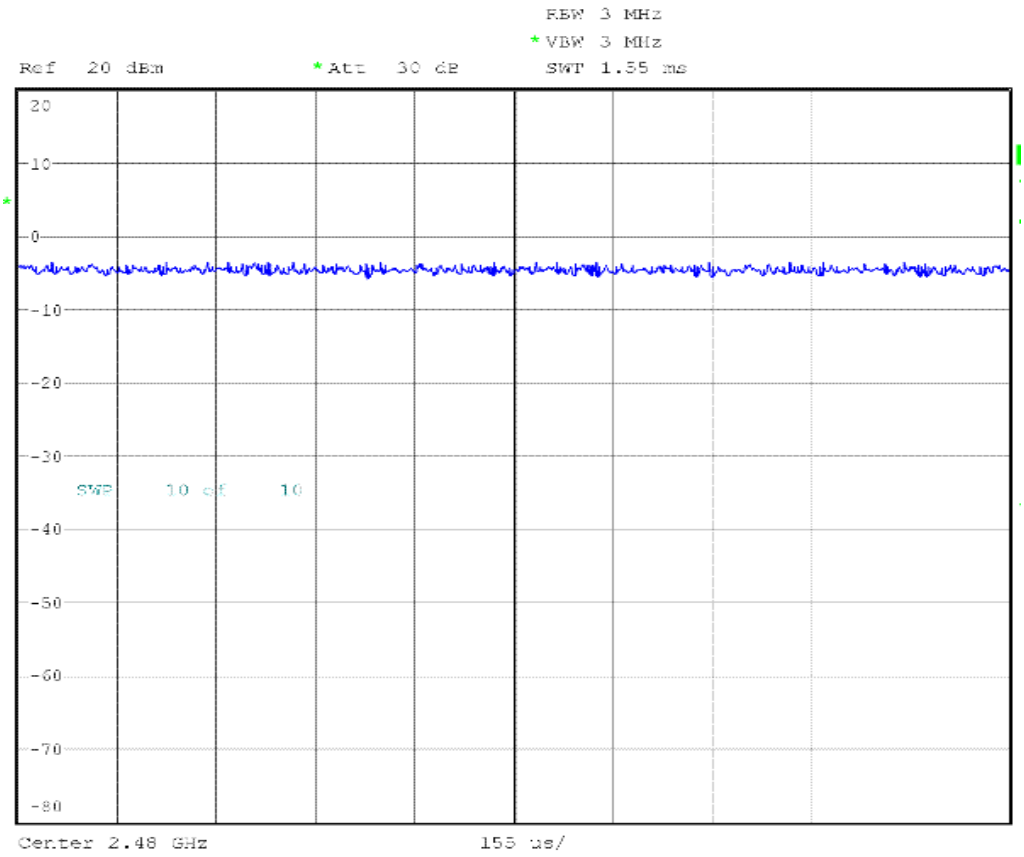
EDR Relative Transmit Power GFSK Mid Min (2DH5)



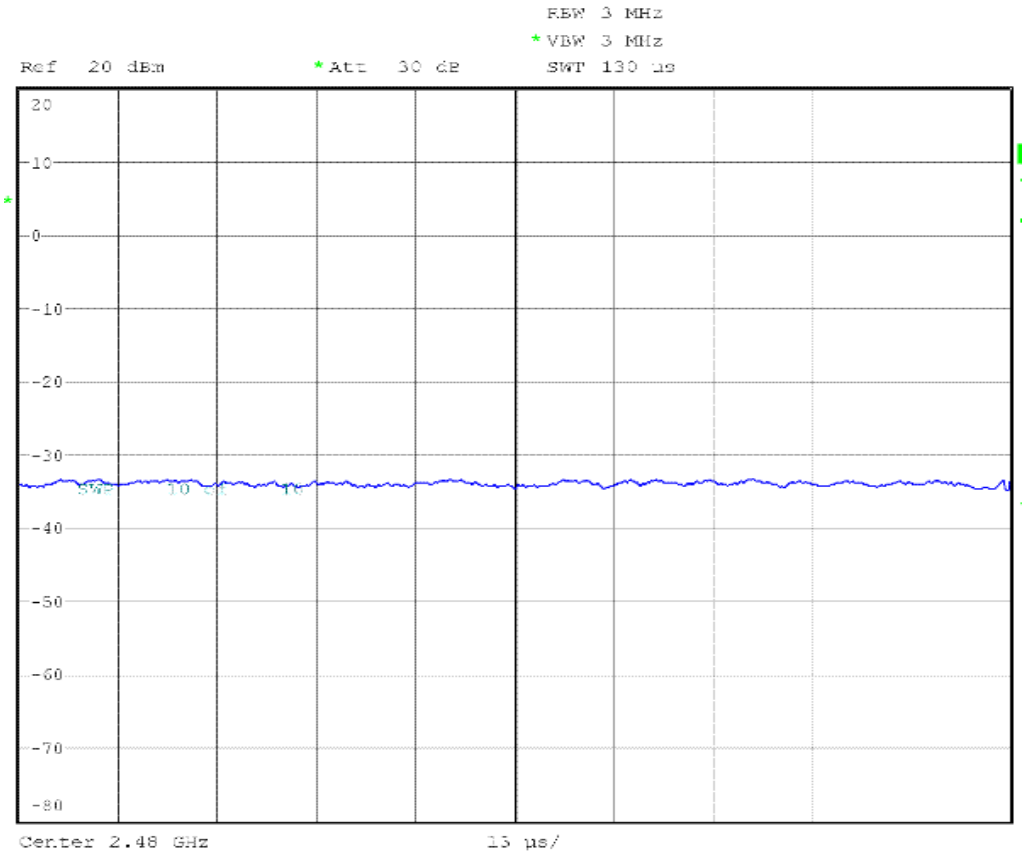
EDR Relative Transmit Power DPSK Mid Min (2DH5)



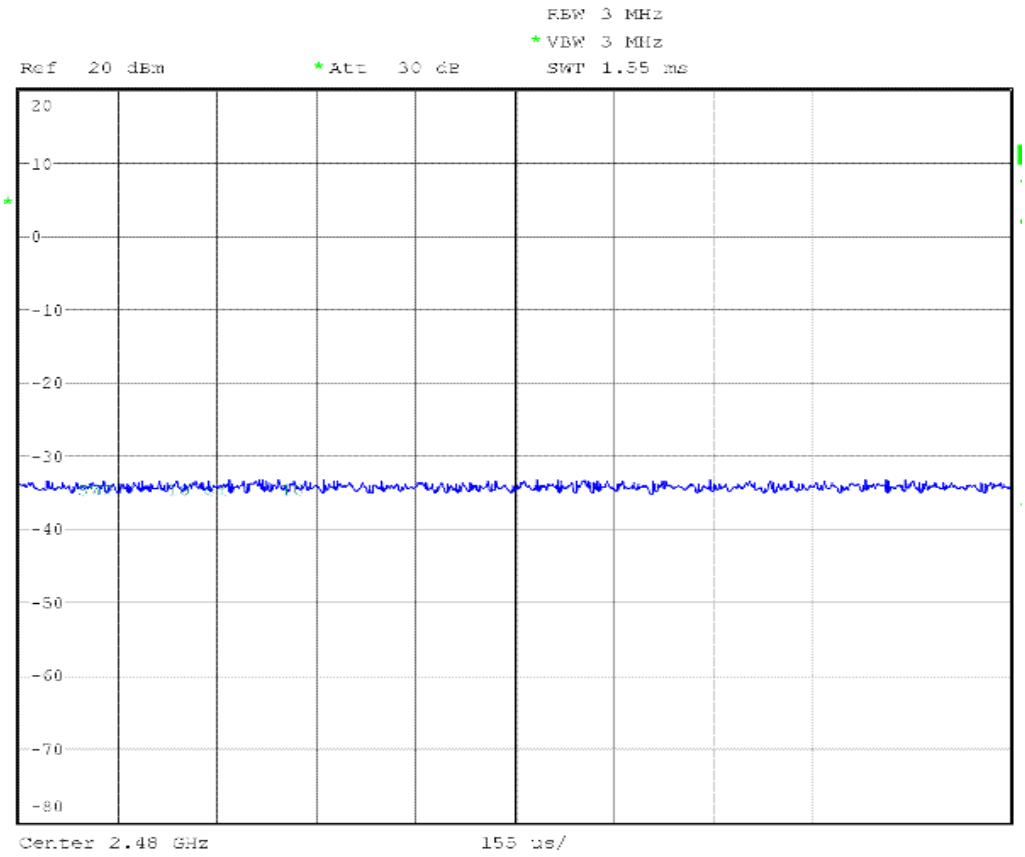
EDR Relative Transmit Power GFSK High Max (2DH5)



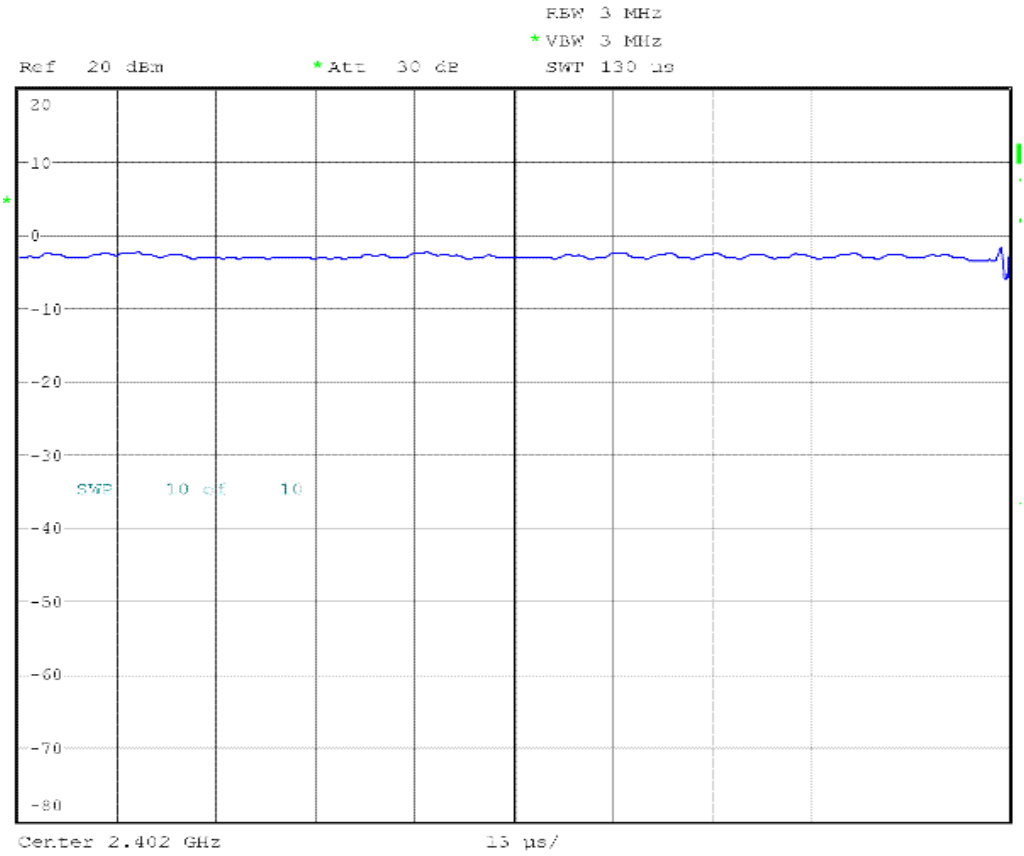
EDR Relative Transmit Power DPSK High Max (2DH5)



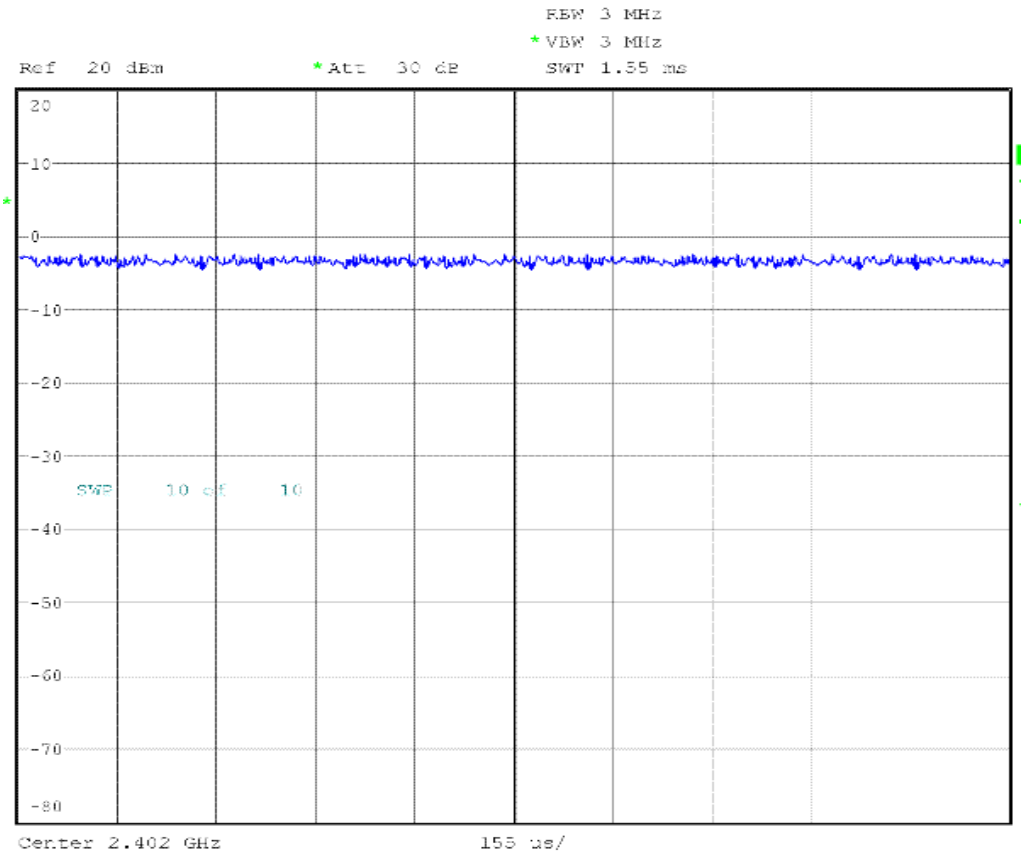
EDR Relative Transmit Power GFSK High Min (2DH5)



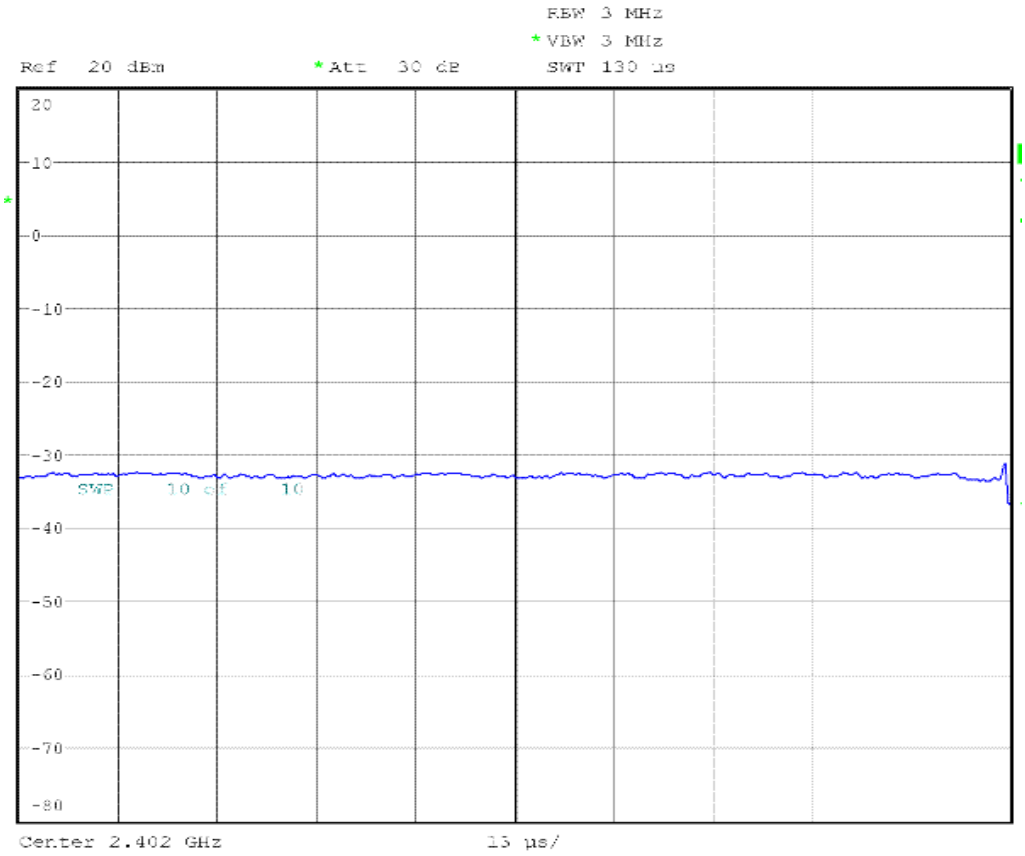
EDR Relative Transmit Power DPSK High Min (2DH5)



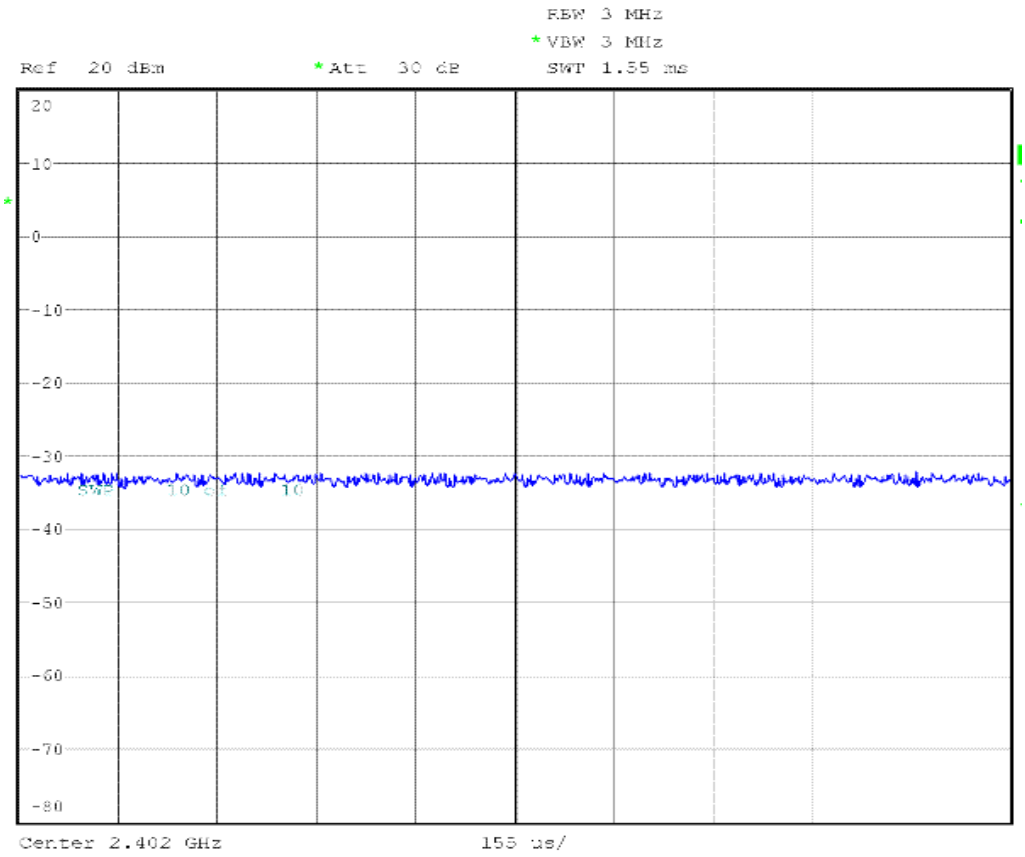
EDR Relative Transmit Power GFSK Low Max (3DH5)



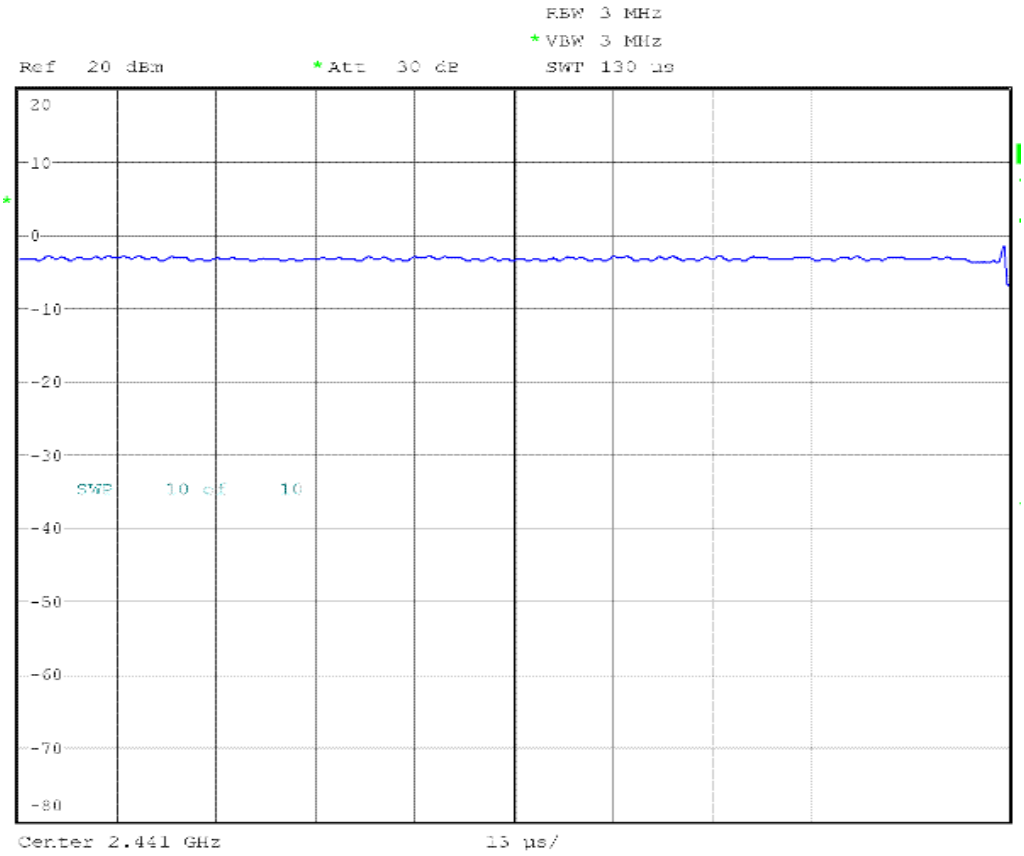
EDR Relative Transmit Power DPSK Low Max (3DH5)



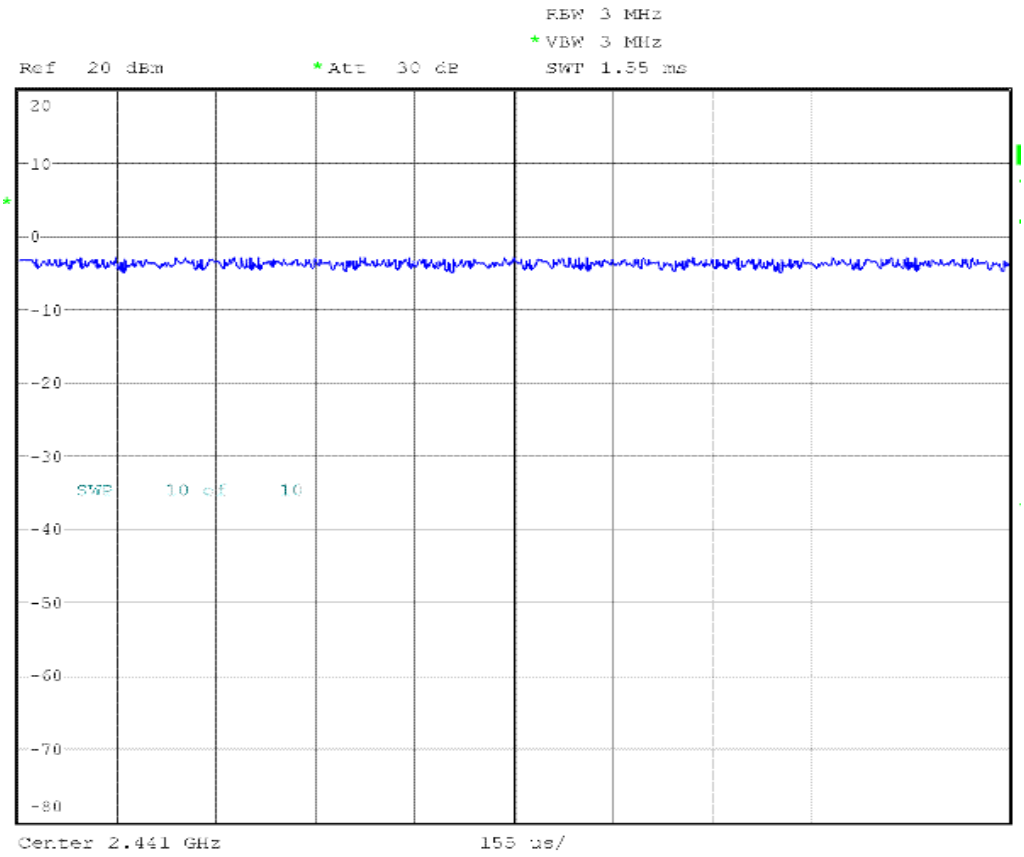
EDR Relative Transmit Power GFSK Low Min (3DH5)



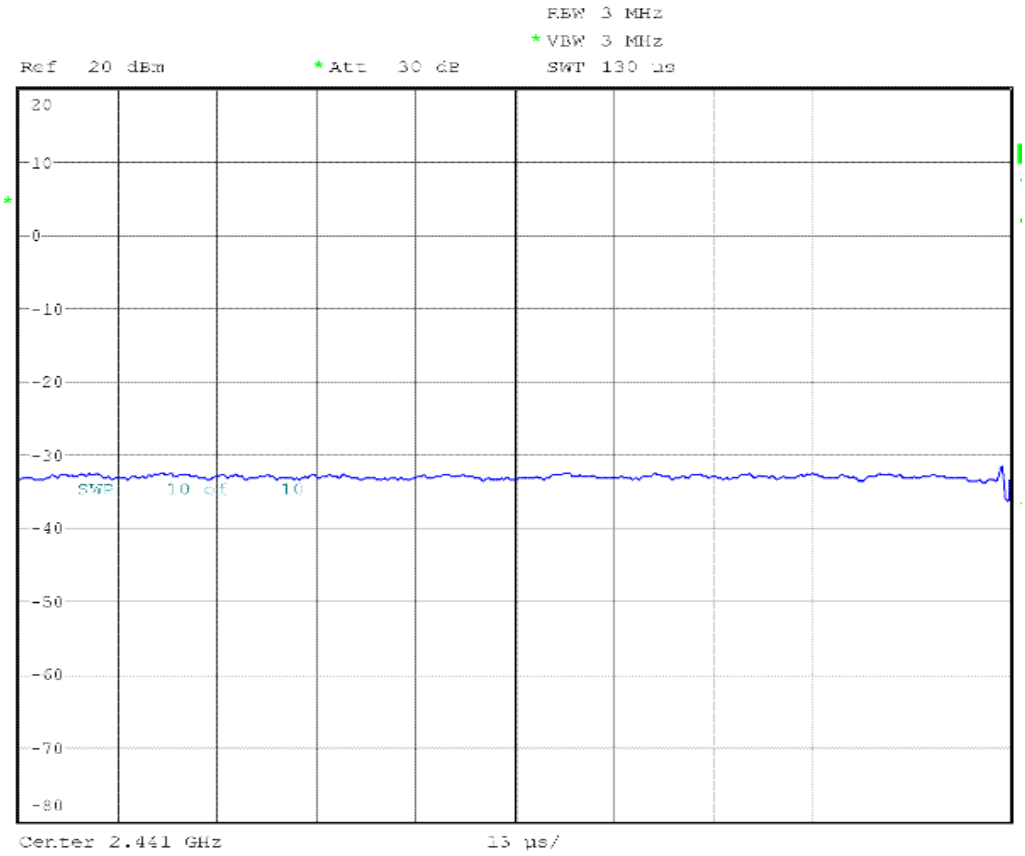
EDR Relative Transmit Power DPSK Low Min (3DH5)



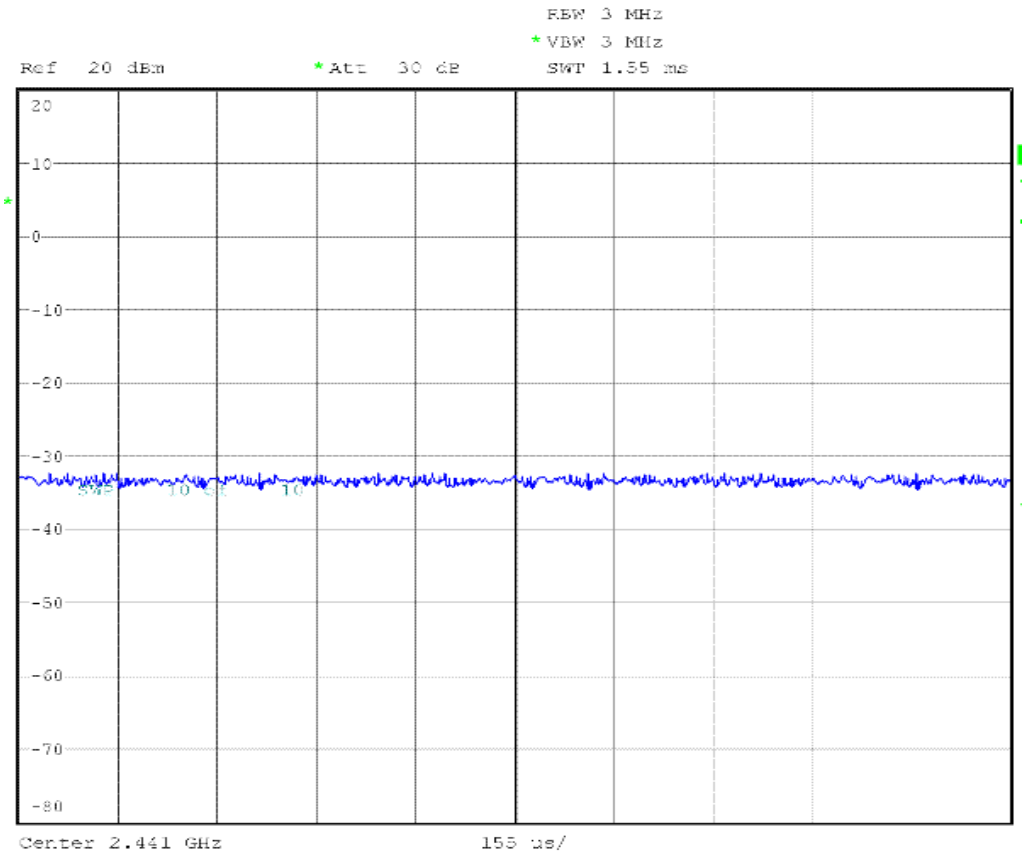
EDR Relative Transmit Power GFSK Mid Max (3DH5)



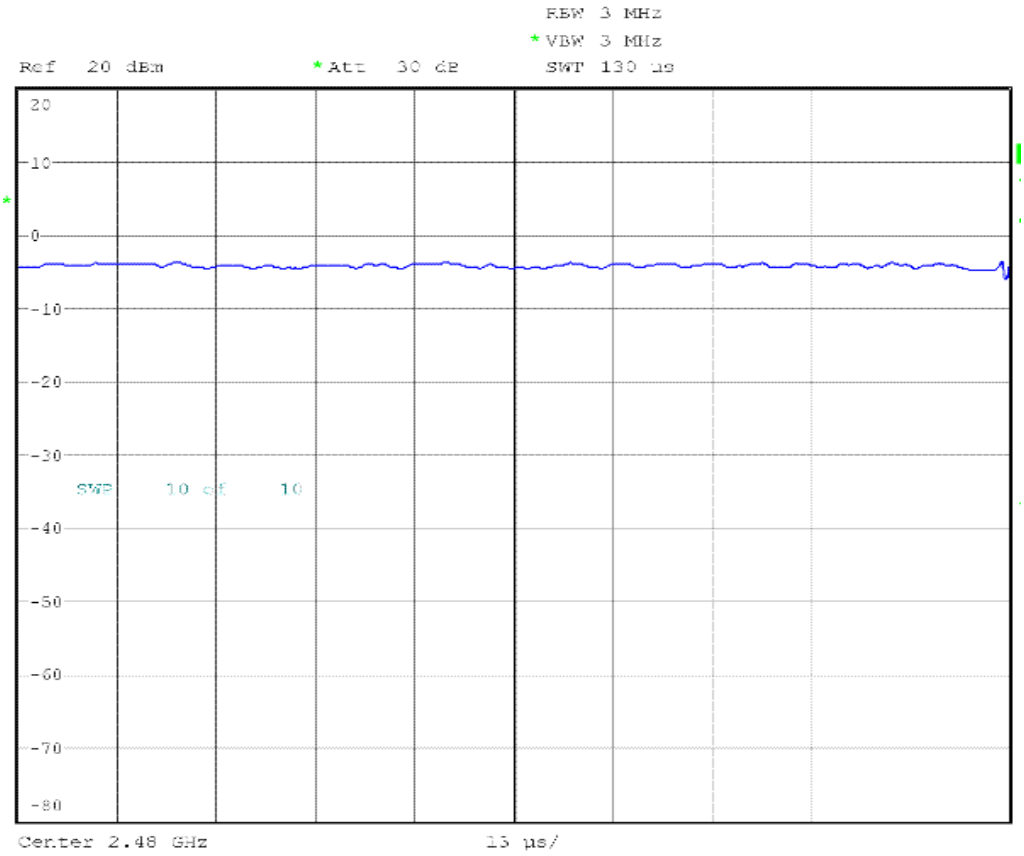
EDR Relative Transmit Power DPSK Mid Max (3DH5)



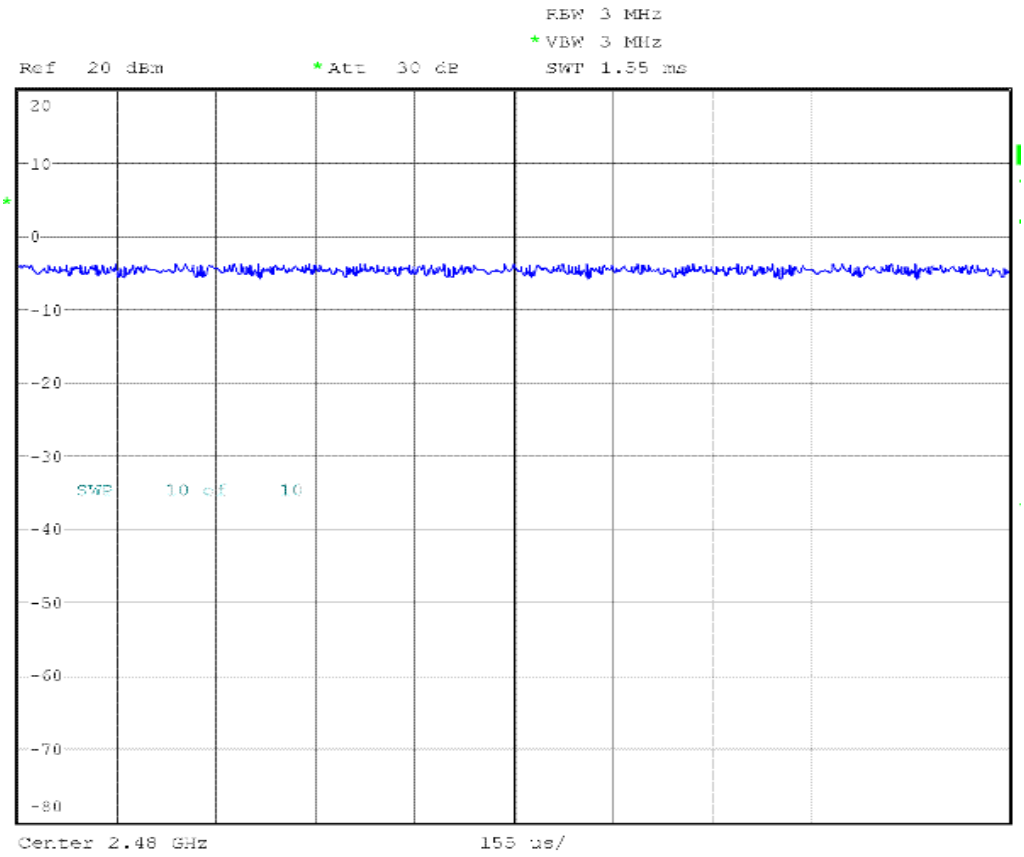
EDR Relative Transmit Power GFSK Mid Min (3DH5)



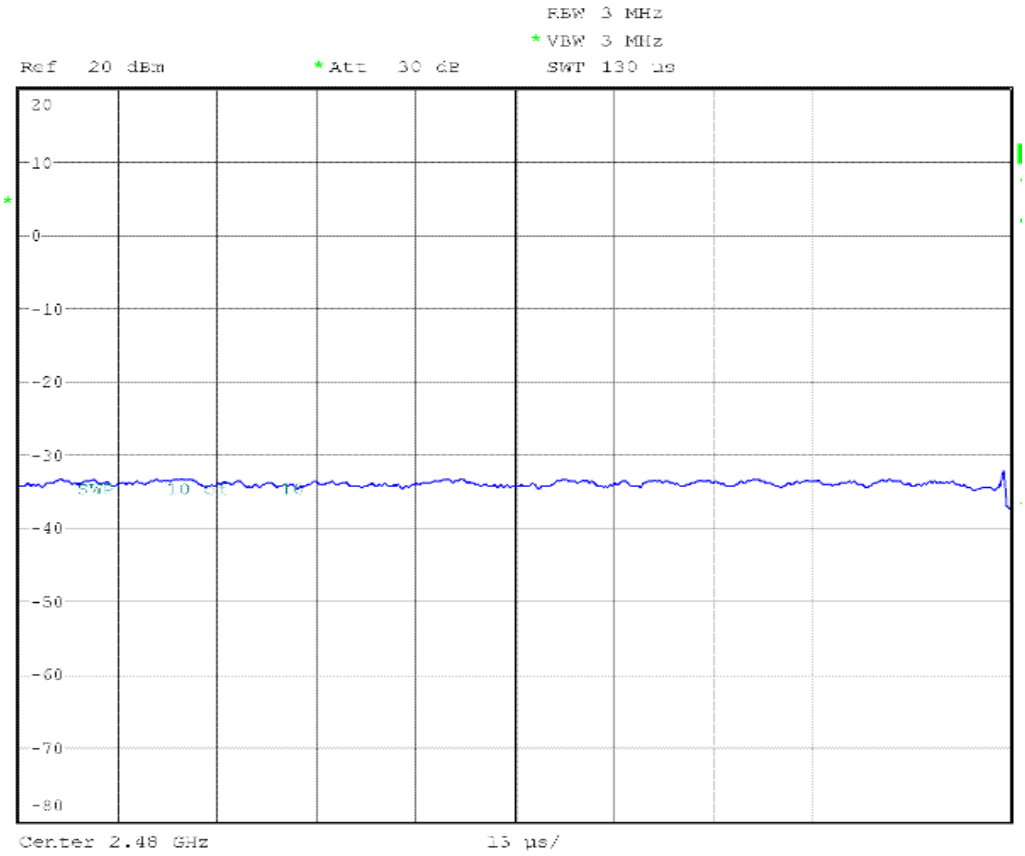
EDR Relative Transmit Power DPSK Mid Min (3DH5)



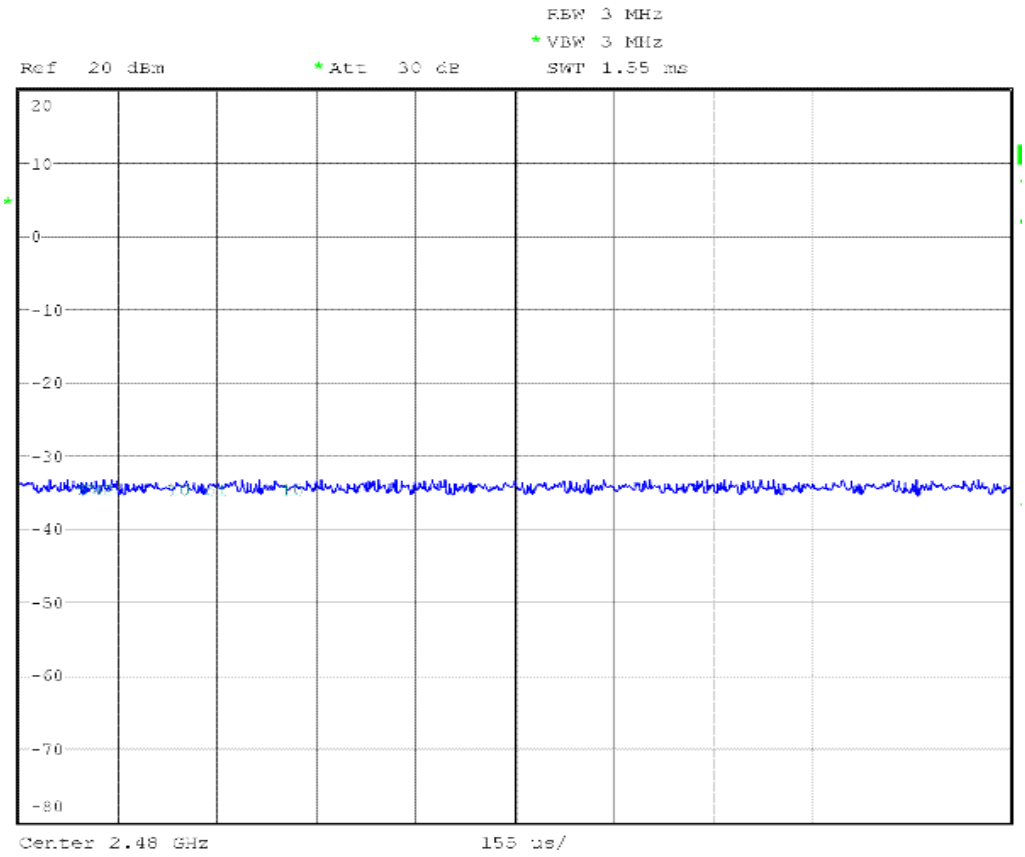
EDR Relative Transmit Power GFSK High Max (3DH5)



EDR Relative Transmit Power DPSK High Max (3DH5)



EDR Relative Transmit Power GFSK High Min (3DH5)



EDR Relative Transmit Power DPSK High Min (3DH5)

3.3.11. Test Case: TRM/CA/11/C - EDR Carrier Frequency Stability and Modulation Accuracy

Expected Outcome:

If the EUT does not support 8DPSK modulation then the outcomes based on this modulation do not apply..

All values as measured must fulfill the following conditions:

1. Carrier frequency stability:
   -75 kHz ≤ ωi ≤ +75 kHz, for all packets
   -75 kHz ≤ (ωi + ω0) ≤ +75 kHz, for all blocks
   -10 kHz ≤ ω0 ≤ +10 kHz, for all blocks
2. RMS DEVM:
   RMS DEVM ≤ 0.20, for all π/4-DQPSK blocks
   RMS DEVM ≤ 0.13, for all 8DPSK blocks
3. Peak DEVM:
   DEVM ≤ 0.35 for all π/4-DQPSK symbols
   DEVM ≤ 0.25 for all 8DPSK symbols
4. 99% DEVM:
   DEVM ≤ 0.30, for 99% of π/4-DQPSK symbols
   DEVM ≤ 0.20, for 99% of 8DPSK symbols

Packet Type:2DH5

Test Frequency	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402MHz)	ω i (kHz)	-0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	-0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.08	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.14	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Mid operating Frequency (2441MHz)	ω i (kHz)	-0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	-0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.14	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
High operating Frequency (2480MHz)	ω i (kHz)	-0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	-0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass

	RMS DEVM	0.10	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.18	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Packet Type: 3DH5				
Test Frequency	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402MHz)	ω i (kHz)	-0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	-0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.15	DEVM ≤ 0.25	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Mid operating Frequency (2441MHz)	ω i (kHz)	-0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	-0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.06	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.14	DEVM ≤ 0.25	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
High operating Frequency (2480MHz)	ω i (kHz)	-0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	-0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.09	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.20	DEVM ≤ 0.25	Pass
	DEVM for 99%	99.98 %	Error symbols > 99 %	Pass

3.3.12. Test Case: TRM/CA/13/C - EDR In-Band Spurious Emissions

Expected Outcome:

All values as measured must fulfill the following conditions:

1. PTx-26dB (f) ≤ PTxref -26 dB for |M-N|= 1
2. PTx (f) ≤ – 20 dBm for |M-N| = 2
3. PTx (f) ≤ – 40 dBm for |M-N| ≥ 3.

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency that is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

Packet Type: 2DH5

Test Frequency (MHz)	Measurement Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
2405	2402	-44.84	≤-40	Pass
2405	2403	-36.45	≤-20	Pass
2405	2404	-34.72	≤ 7.64 -26	Pass
2405	2405	7.64	N/A	N/A
2405	2406	-34.74	≤ 7.64 -26	Pass
2405	2407	-36.9	≤-20	Pass
2405	2408	-44.43	≤-40	Pass
2405	2409	-47.68	≤-40	Pass
2405	2410	-48.47	≤-40	Pass
2405	2411	-47.93	≤-40	Pass
2405	2412	-47.48	≤-40	Pass
2405	2413	-47.1	≤-40	Pass
2405	2414	-47.42	≤-40	Pass
2405	2415	-47.28	≤-40	Pass
2405	2416	-46.58	≤-40	Pass
2405	2417	-46.4	≤-40	Pass
2405	2418	-46.53	≤-40	Pass
2405	2419	-46.78	≤-40	Pass
2405	2420	-46.95	≤-40	Pass
2405	2421	-46.63	≤-40	Pass
2405	2422	-47.15	≤-40	Pass
2405	2423	-46.91	≤-40	Pass
2405	2424	-47.01	≤-40	Pass
2405	2425	-47.85	≤-40	Pass
2405	2426	-47.42	≤-40	Pass

2405	2427	-47.67	≤-40	Pass
2405	2428	-48.11	≤-40	Pass
2405	2429	-48.28	≤-40	Pass
2405	2430	-48.4	≤-40	Pass
2405	2431	-48.62	≤-40	Pass
2405	2432	-48.91	≤-40	Pass
2405	2433	-49.43	≤-40	Pass
2405	2434	-49.46	≤-40	Pass
2405	2435	-49.9	≤-40	Pass
2405	2436	-50.2	≤-40	Pass
2405	2437	-50.36	≤-40	Pass
2405	2438	-50.7	≤-40	Pass
2405	2439	-50.88	≤-40	Pass
2405	2440	-51.36	≤-40	Pass
2405	2441	-50.91	≤-40	Pass
2405	2442	-51.9	≤-40	Pass
2405	2443	-51.98	≤-40	Pass
2405	2444	-52.3	≤-40	Pass
2405	2445	-52.37	≤-40	Pass
2405	2446	-52.94	≤-40	Pass
2405	2447	-53.34	≤-40	Pass
2405	2448	-53.58	≤-40	Pass
2405	2449	-53.74	≤-40	Pass
2405	2450	-54.08	≤-40	Pass
2405	2451	-54.12	≤-40	Pass
2405	2452	-54.37	≤-40	Pass
2405	2453	-54.59	≤-40	Pass
2405	2454	-54.76	≤-40	Pass
2405	2455	-55.09	≤-40	Pass
2405	2456	-55.25	≤-40	Pass
2405	2457	-53.71	≤-40	Pass
2405	2458	-55.17	≤-40	Pass
2405	2459	-55.56	≤-40	Pass
2405	2460	-55.56	≤-40	Pass
2405	2461	-55.94	≤-40	Pass
2405	2462	-55.88	≤-40	Pass
2405	2463	-56	≤-40	Pass
2405	2464	-56.16	≤-40	Pass

2405	2465	-56.31	≤-40	Pass
2405	2466	-55.94	≤-40	Pass
2405	2467	-55.83	≤-40	Pass
2405	2468	-56.32	≤-40	Pass
2405	2469	-56.11	≤-40	Pass
2405	2470	-56.01	≤-40	Pass
2405	2471	-56.07	≤-40	Pass
2405	2472	-56.17	≤-40	Pass
2405	2473	-56.21	≤-40	Pass
2405	2474	-56.31	≤-40	Pass
2405	2475	-56.34	≤-40	Pass
2405	2476	-56.36	≤-40	Pass
2405	2477	-56.07	≤-40	Pass
2405	2478	-56.02	≤-40	Pass
2405	2479	-56.44	≤-40	Pass
2405	2480	-55.91	≤-40	Pass
2441	2402	-52.17	≤-40	Pass
2441	2403	-51.83	≤-40	Pass
2441	2404	-50.94	≤-40	Pass
2441	2405	-51.31	≤-40	Pass
2441	2406	-50.73	≤-40	Pass
2441	2407	-50.72	≤-40	Pass
2441	2408	-50.24	≤-40	Pass
2441	2409	-49.91	≤-40	Pass
2441	2410	-49.68	≤-40	Pass
2441	2411	-49.21	≤-40	Pass
2441	2412	-49.33	≤-40	Pass
2441	2413	-48.75	≤-40	Pass
2441	2414	-48.42	≤-40	Pass
2441	2415	-48.31	≤-40	Pass
2441	2416	-48.29	≤-40	Pass
2441	2417	-47.93	≤-40	Pass
2441	2418	-47.9	≤-40	Pass
2441	2419	-47.49	≤-40	Pass
2441	2420	-47.46	≤-40	Pass
2441	2421	-47.59	≤-40	Pass
2441	2422	-47.09	≤-40	Pass
2441	2423	-46.99	≤-40	Pass

2441	2424	-47.42	≤-40	Pass
2441	2425	-47.1	≤-40	Pass
2441	2426	-46.82	≤-40	Pass
2441	2427	-46.81	≤-40	Pass
2441	2428	-46.52	≤-40	Pass
2441	2429	-46.77	≤-40	Pass
2441	2430	-46.95	≤-40	Pass
2441	2431	-46.88	≤-40	Pass
2441	2432	-47.04	≤-40	Pass
2441	2433	-48.03	≤-40	Pass
2441	2434	-47.66	≤-40	Pass
2441	2435	-48.39	≤-40	Pass
2441	2436	-47.47	≤-40	Pass
2441	2437	-47.31	≤-40	Pass
2441	2438	-45.27	≤-40	Pass
2441	2439	-37.1	≤-20	Pass
2441	2440	-36	≤ 7.19 -26	Pass
2441	2441	7.19	N/A	N/A
2441	2442	-36.17	≤ 7.19 -26	Pass
2441	2443	-36.75	≤-20	Pass
2441	2444	-44.56	≤-40	Pass
2441	2445	-47.14	≤-40	Pass
2441	2446	-47.73	≤-40	Pass
2441	2447	-48.33	≤-40	Pass
2441	2448	-48.25	≤-40	Pass
2441	2449	-47.74	≤-40	Pass
2441	2450	-47.13	≤-40	Pass
2441	2451	-47.21	≤-40	Pass
2441	2452	-47.11	≤-40	Pass
2441	2453	-46.92	≤-40	Pass
2441	2454	-46.98	≤-40	Pass
2441	2455	-47.16	≤-40	Pass
2441	2456	-47.01	≤-40	Pass
2441	2457	-47.4	≤-40	Pass
2441	2458	-47.11	≤-40	Pass
2441	2459	-47.43	≤-40	Pass
2441	2460	-47.55	≤-40	Pass
2441	2461	-47.89	≤-40	Pass

2441	2462	-47.69	≤-40	Pass
2441	2463	-48.28	≤-40	Pass
2441	2464	-48.67	≤-40	Pass
2441	2465	-48.31	≤-40	Pass
2441	2466	-48.76	≤-40	Pass
2441	2467	-49.06	≤-40	Pass
2441	2468	-49.12	≤-40	Pass
2441	2469	-49.61	≤-40	Pass
2441	2470	-49.58	≤-40	Pass
2441	2471	-49.95	≤-40	Pass
2441	2472	-50.73	≤-40	Pass
2441	2473	-50.42	≤-40	Pass
2441	2474	-50.86	≤-40	Pass
2441	2475	-50.91	≤-40	Pass
2441	2476	-51.55	≤-40	Pass
2441	2477	-51.79	≤-40	Pass
2441	2478	-52.33	≤-40	Pass
2441	2479	-52.31	≤-40	Pass
2441	2480	-52.58	≤-40	Pass
2477	2402	-56.45	≤-40	Pass
2477	2403	-56.52	≤-40	Pass
2477	2404	-56.32	≤-40	Pass
2477	2405	-56.75	≤-40	Pass
2477	2406	-56.31	≤-40	Pass
2477	2407	-56.77	≤-40	Pass
2477	2408	-56.86	≤-40	Pass
2477	2409	-56.55	≤-40	Pass
2477	2410	-56.38	≤-40	Pass
2477	2411	-56.37	≤-40	Pass
2477	2412	-56.25	≤-40	Pass
2477	2413	-56.43	≤-40	Pass
2477	2414	-56.57	≤-40	Pass
2477	2415	-56.41	≤-40	Pass
2477	2416	-56.51	≤-40	Pass
2477	2417	-56.54	≤-40	Pass
2477	2418	-56.01	≤-40	Pass
2477	2419	-56.36	≤-40	Pass
2477	2420	-56	≤-40	Pass

2477	2421	-56.28	≤-40	Pass
2477	2422	-56.06	≤-40	Pass
2477	2423	-55.83	≤-40	Pass
2477	2424	-55.65	≤-40	Pass
2477	2425	-55.16	≤-40	Pass
2477	2426	-55.06	≤-40	Pass
2477	2427	-55.05	≤-40	Pass
2477	2428	-54.98	≤-40	Pass
2477	2429	-54.69	≤-40	Pass
2477	2430	-54.13	≤-40	Pass
2477	2431	-54.13	≤-40	Pass
2477	2432	-54.1	≤-40	Pass
2477	2433	-53.79	≤-40	Pass
2477	2434	-53.33	≤-40	Pass
2477	2435	-52.99	≤-40	Pass
2477	2436	-53.32	≤-40	Pass
2477	2437	-52.7	≤-40	Pass
2477	2438	-52.21	≤-40	Pass
2477	2439	-52.28	≤-40	Pass
2477	2440	-51.95	≤-40	Pass
2477	2441	-51.37	≤-40	Pass
2477	2442	-51.42	≤-40	Pass
2477	2443	-51.01	≤-40	Pass
2477	2444	-50.73	≤-40	Pass
2477	2445	-50.42	≤-40	Pass
2477	2446	-49.78	≤-40	Pass
2477	2447	-49.64	≤-40	Pass
2477	2448	-49.67	≤-40	Pass
2477	2449	-49.03	≤-40	Pass
2477	2450	-49.01	≤-40	Pass
2477	2451	-48.88	≤-40	Pass
2477	2452	-48.96	≤-40	Pass
2477	2453	-48.29	≤-40	Pass
2477	2454	-48.2	≤-40	Pass
2477	2455	-47.89	≤-40	Pass
2477	2456	-47.9	≤-40	Pass
2477	2457	-48	≤-40	Pass
2477	2458	-47.43	≤-40	Pass

2477	2459	-47.74	≤-40	Pass
2477	2460	-47.84	≤-40	Pass
2477	2461	-47.54	≤-40	Pass
2477	2462	-47.11	≤-40	Pass
2477	2463	-47.17	≤-40	Pass
2477	2464	-47.17	≤-40	Pass
2477	2465	-47.29	≤-40	Pass
2477	2466	-47.6	≤-40	Pass
2477	2467	-47.45	≤-40	Pass
2477	2468	-47.33	≤-40	Pass
2477	2469	-48.26	≤-40	Pass
2477	2470	-48.09	≤-40	Pass
2477	2471	-48.57	≤-40	Pass
2477	2472	-48.43	≤-40	Pass
2477	2473	-48.09	≤-40	Pass
2477	2474	-45.56	≤-40	Pass
2477	2475	-38.68	≤-20	Pass
2477	2476	-35.17	≤ 6.51 -26	Pass
2477	2477	6.51	N/A	N/A
2477	2478	-36.07	≤ 6.51 -26	Pass
2477	2479	-38.16	≤-20	Pass
2477	2480	-45.36	≤-40	Pass
Packet Type: 3DH5				
Test Frequency (MHz)	Measurement Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
2405	2402	-43.5	≤-40	Pass
2405	2403	-36.89	≤-20	Pass
2405	2404	-35.42	≤ 7.63 -26	Pass
2405	2405	7.63	N/A	N/A
2405	2406	-34.73	≤ 7.63 -26	Pass
2405	2407	-36.25	≤-20	Pass
2405	2408	-44.1	≤-40	Pass
2405	2409	-46.23	≤-40	Pass
2405	2410	-47.07	≤-40	Pass
2405	2411	-47.77	≤-40	Pass
2405	2412	-47.53	≤-40	Pass
2405	2413	-47.41	≤-40	Pass
2405	2414	-47.12	≤-40	Pass

2405	2415	-46.84	≤-40	Pass
2405	2416	-46.76	≤-40	Pass
2405	2417	-46.79	≤-40	Pass
2405	2418	-47.17	≤-40	Pass
2405	2419	-46.74	≤-40	Pass
2405	2420	-46.95	≤-40	Pass
2405	2421	-46.95	≤-40	Pass
2405	2422	-47.08	≤-40	Pass
2405	2423	-47.03	≤-40	Pass
2405	2424	-46.48	≤-40	Pass
2405	2425	-47.43	≤-40	Pass
2405	2426	-47.6	≤-40	Pass
2405	2427	-47.49	≤-40	Pass
2405	2428	-47.81	≤-40	Pass
2405	2429	-48.28	≤-40	Pass
2405	2430	-48.48	≤-40	Pass
2405	2431	-48.72	≤-40	Pass
2405	2432	-49.05	≤-40	Pass
2405	2433	-49.21	≤-40	Pass
2405	2434	-49.26	≤-40	Pass
2405	2435	-49.68	≤-40	Pass
2405	2436	-50.3	≤-40	Pass
2405	2437	-50.56	≤-40	Pass
2405	2438	-50.48	≤-40	Pass
2405	2439	-50.65	≤-40	Pass
2405	2440	-51.07	≤-40	Pass
2405	2441	-51.43	≤-40	Pass
2405	2442	-51.83	≤-40	Pass
2405	2443	-52.43	≤-40	Pass
2405	2444	-52.3	≤-40	Pass
2405	2445	-52.75	≤-40	Pass
2405	2446	-53.11	≤-40	Pass
2405	2447	-53.3	≤-40	Pass
2405	2448	-53.45	≤-40	Pass
2405	2449	-53.63	≤-40	Pass
2405	2450	-54.14	≤-40	Pass
2405	2451	-54.34	≤-40	Pass
2405	2452	-54.59	≤-40	Pass

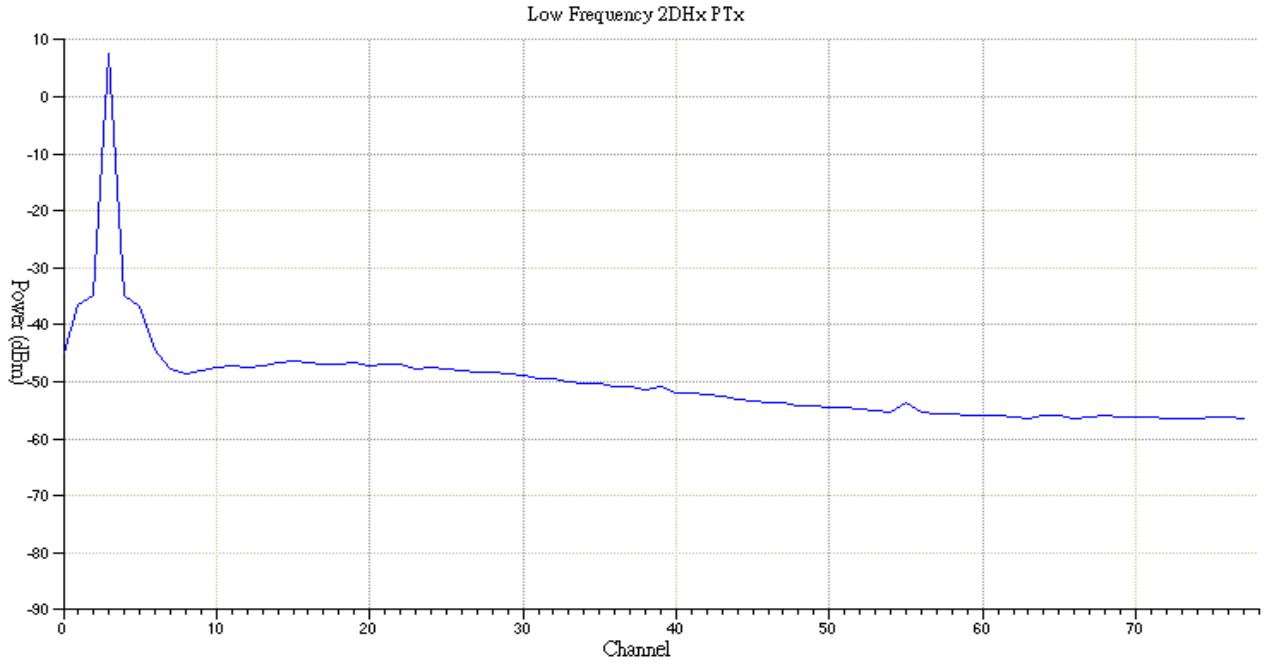
2405	2453	-54.81	≤-40	Pass
2405	2454	-54.9	≤-40	Pass
2405	2455	-55.59	≤-40	Pass
2405	2456	-55.02	≤-40	Pass
2405	2457	-53.62	≤-40	Pass
2405	2458	-55.69	≤-40	Pass
2405	2459	-55.37	≤-40	Pass
2405	2460	-55.94	≤-40	Pass
2405	2461	-55.95	≤-40	Pass
2405	2462	-55.67	≤-40	Pass
2405	2463	-56.32	≤-40	Pass
2405	2464	-56.12	≤-40	Pass
2405	2465	-55.91	≤-40	Pass
2405	2466	-55.93	≤-40	Pass
2405	2467	-56.35	≤-40	Pass
2405	2468	-56.51	≤-40	Pass
2405	2469	-56.25	≤-40	Pass
2405	2470	-55.76	≤-40	Pass
2405	2471	-56.05	≤-40	Pass
2405	2472	-55.97	≤-40	Pass
2405	2473	-56.31	≤-40	Pass
2405	2474	-56.24	≤-40	Pass
2405	2475	-56.23	≤-40	Pass
2405	2476	-55.98	≤-40	Pass
2405	2477	-55.88	≤-40	Pass
2405	2478	-56.13	≤-40	Pass
2405	2479	-56.2	≤-40	Pass
2405	2480	-56.46	≤-40	Pass
2441	2402	-51.82	≤-40	Pass
2441	2403	-51.79	≤-40	Pass
2441	2404	-51.37	≤-40	Pass
2441	2405	-50.62	≤-40	Pass
2441	2406	-50.61	≤-40	Pass
2441	2407	-50.66	≤-40	Pass
2441	2408	-50.53	≤-40	Pass
2441	2409	-50.01	≤-40	Pass
2441	2410	-49.57	≤-40	Pass
2441	2411	-49.08	≤-40	Pass

2441	2412	-49.26	≤-40	Pass
2441	2413	-48.75	≤-40	Pass
2441	2414	-48.71	≤-40	Pass
2441	2415	-48.82	≤-40	Pass
2441	2416	-48.38	≤-40	Pass
2441	2417	-48.17	≤-40	Pass
2441	2418	-47.92	≤-40	Pass
2441	2419	-47.49	≤-40	Pass
2441	2420	-47.09	≤-40	Pass
2441	2421	-47.5	≤-40	Pass
2441	2422	-47.36	≤-40	Pass
2441	2423	-47.12	≤-40	Pass
2441	2424	-47.1	≤-40	Pass
2441	2425	-46.86	≤-40	Pass
2441	2426	-46.56	≤-40	Pass
2441	2427	-46.91	≤-40	Pass
2441	2428	-46.73	≤-40	Pass
2441	2429	-46.66	≤-40	Pass
2441	2430	-46.65	≤-40	Pass
2441	2431	-46.84	≤-40	Pass
2441	2432	-47.29	≤-40	Pass
2441	2433	-47.53	≤-40	Pass
2441	2434	-47.48	≤-40	Pass
2441	2435	-47.89	≤-40	Pass
2441	2436	-47.41	≤-40	Pass
2441	2437	-46.46	≤-40	Pass
2441	2438	-43.59	≤-40	Pass
2441	2439	-37.11	≤-20	Pass
2441	2440	-36.9	≤ 7.28 -26	Pass
2441	2441	7.28	N/A	N/A
2441	2442	-36.01	≤ 7.28 -26	Pass
2441	2443	-36.47	≤-20	Pass
2441	2444	-44.44	≤-40	Pass
2441	2445	-46.41	≤-40	Pass
2441	2446	-46.7	≤-40	Pass
2441	2447	-47.84	≤-40	Pass
2441	2448	-47.79	≤-40	Pass
2441	2449	-47.6	≤-40	Pass

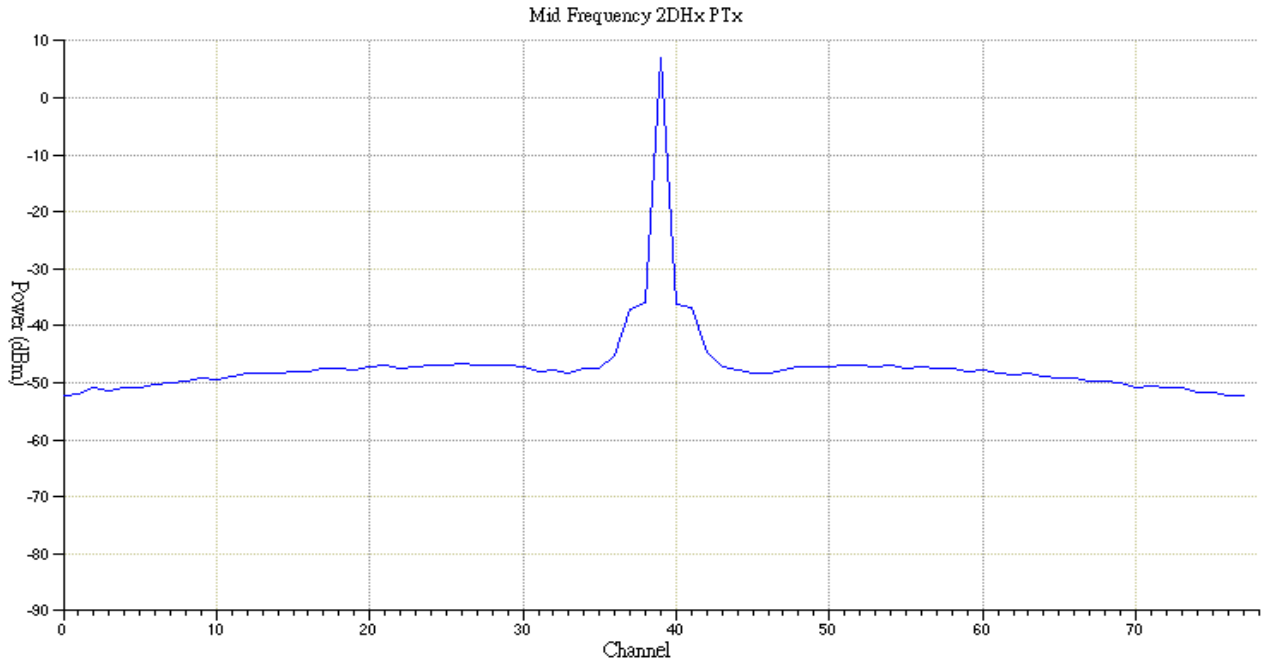
2441	2450	-47.61	≤-40	Pass
2441	2451	-47.51	≤-40	Pass
2441	2452	-46.79	≤-40	Pass
2441	2453	-46.71	≤-40	Pass
2441	2454	-46.89	≤-40	Pass
2441	2455	-47.11	≤-40	Pass
2441	2456	-47.1	≤-40	Pass
2441	2457	-47.47	≤-40	Pass
2441	2458	-47.41	≤-40	Pass
2441	2459	-47.81	≤-40	Pass
2441	2460	-46.98	≤-40	Pass
2441	2461	-48.06	≤-40	Pass
2441	2462	-47.81	≤-40	Pass
2441	2463	-47.74	≤-40	Pass
2441	2464	-48.19	≤-40	Pass
2441	2465	-48.5	≤-40	Pass
2441	2466	-48.45	≤-40	Pass
2441	2467	-49.05	≤-40	Pass
2441	2468	-49.14	≤-40	Pass
2441	2469	-49.47	≤-40	Pass
2441	2470	-49.77	≤-40	Pass
2441	2471	-50.17	≤-40	Pass
2441	2472	-50.45	≤-40	Pass
2441	2473	-50.93	≤-40	Pass
2441	2474	-50.95	≤-40	Pass
2441	2475	-51.41	≤-40	Pass
2441	2476	-51.58	≤-40	Pass
2441	2477	-51.68	≤-40	Pass
2441	2478	-51.61	≤-40	Pass
2441	2479	-52.35	≤-40	Pass
2441	2480	-52.89	≤-40	Pass
2477	2402	-56.36	≤-40	Pass
2477	2403	-56.45	≤-40	Pass
2477	2404	-56.47	≤-40	Pass
2477	2405	-56.75	≤-40	Pass
2477	2406	-56.57	≤-40	Pass
2477	2407	-56.78	≤-40	Pass
2477	2408	-56.49	≤-40	Pass

2477	2409	-56.55	≤-40	Pass
2477	2410	-56.22	≤-40	Pass
2477	2411	-56.33	≤-40	Pass
2477	2412	-56.52	≤-40	Pass
2477	2413	-55.74	≤-40	Pass
2477	2414	-56.76	≤-40	Pass
2477	2415	-56.36	≤-40	Pass
2477	2416	-56.57	≤-40	Pass
2477	2417	-56.32	≤-40	Pass
2477	2418	-56.25	≤-40	Pass
2477	2419	-56.08	≤-40	Pass
2477	2420	-56.01	≤-40	Pass
2477	2421	-56.24	≤-40	Pass
2477	2422	-55.46	≤-40	Pass
2477	2423	-55.74	≤-40	Pass
2477	2424	-55.66	≤-40	Pass
2477	2425	-55.13	≤-40	Pass
2477	2426	-55.29	≤-40	Pass
2477	2427	-55.24	≤-40	Pass
2477	2428	-54.99	≤-40	Pass
2477	2429	-54.78	≤-40	Pass
2477	2430	-54.76	≤-40	Pass
2477	2431	-54.25	≤-40	Pass
2477	2432	-53.99	≤-40	Pass
2477	2433	-53.9	≤-40	Pass
2477	2434	-53.43	≤-40	Pass
2477	2435	-53.43	≤-40	Pass
2477	2436	-53.05	≤-40	Pass
2477	2437	-52.44	≤-40	Pass
2477	2438	-52.13	≤-40	Pass
2477	2439	-51.7	≤-40	Pass
2477	2440	-51.71	≤-40	Pass
2477	2441	-51.39	≤-40	Pass
2477	2442	-51.27	≤-40	Pass
2477	2443	-50.83	≤-40	Pass
2477	2444	-50.8	≤-40	Pass
2477	2445	-50.46	≤-40	Pass
2477	2446	-50.04	≤-40	Pass

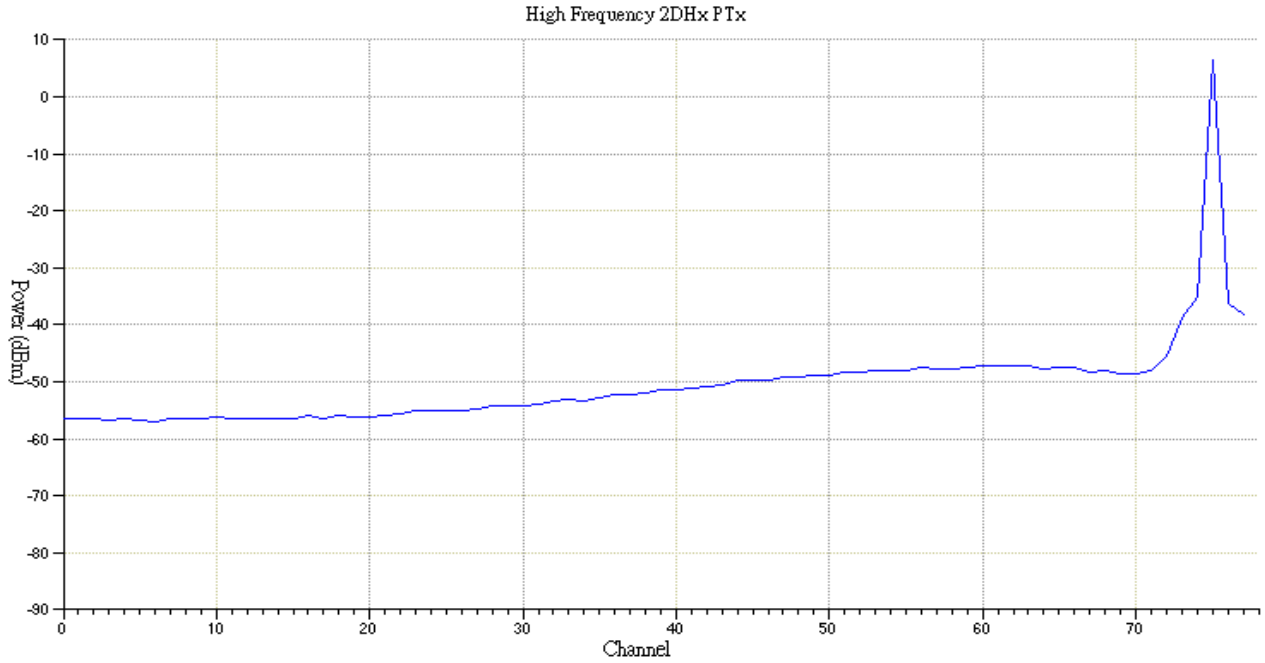
2477	2447	-49.64	≤-40	Pass
2477	2448	-49.7	≤-40	Pass
2477	2449	-49.33	≤-40	Pass
2477	2450	-49.06	≤-40	Pass
2477	2451	-49.17	≤-40	Pass
2477	2452	-48.94	≤-40	Pass
2477	2453	-48.26	≤-40	Pass
2477	2454	-48.05	≤-40	Pass
2477	2455	-47.73	≤-40	Pass
2477	2456	-47.54	≤-40	Pass
2477	2457	-48.03	≤-40	Pass
2477	2458	-47.52	≤-40	Pass
2477	2459	-47.55	≤-40	Pass
2477	2460	-47.69	≤-40	Pass
2477	2461	-47.54	≤-40	Pass
2477	2462	-47.15	≤-40	Pass
2477	2463	-47.18	≤-40	Pass
2477	2464	-47.45	≤-40	Pass
2477	2465	-47.32	≤-40	Pass
2477	2466	-47.23	≤-40	Pass
2477	2467	-47.22	≤-40	Pass
2477	2468	-47.69	≤-40	Pass
2477	2469	-48.01	≤-40	Pass
2477	2470	-48.26	≤-40	Pass
2477	2471	-47.84	≤-40	Pass
2477	2472	-48.32	≤-40	Pass
2477	2473	-47.39	≤-40	Pass
2477	2474	-44.43	≤-40	Pass
2477	2475	-39.34	≤-20	Pass
2477	2476	-37.82	≤ 6.4 -26	Pass
2477	2477	6.4	N/A	N/A
2477	2478	-36.95	≤ 6.4 -26	Pass
2477	2479	-38.39	≤-20	Pass
2477	2480	-45.02	≤-40	Pass



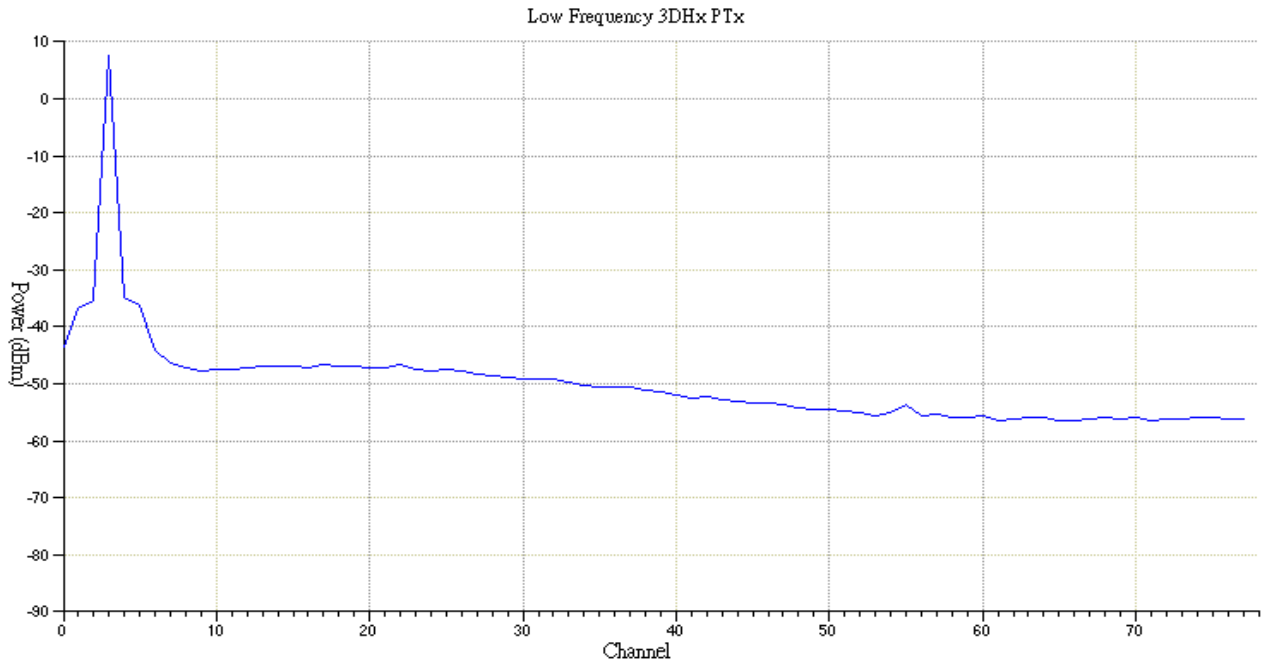
EDR In Band Spurious Emissions - 2DH5 Low



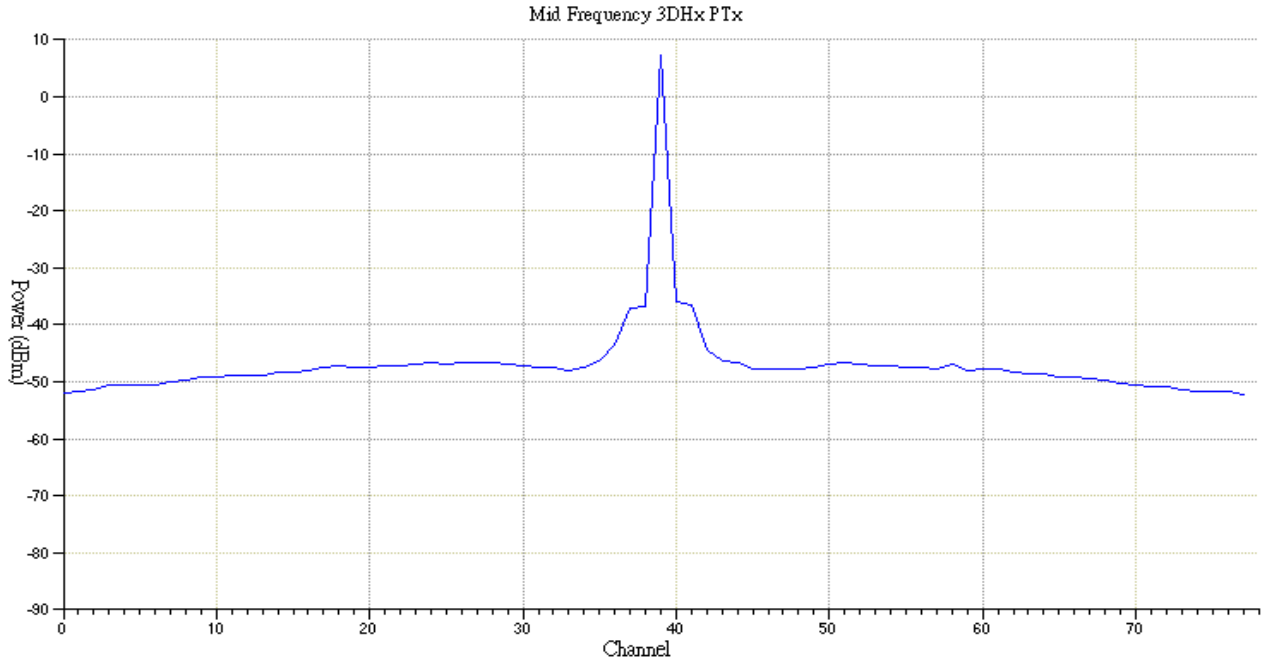
EDR In Band Spurious Emissions - 2DH5 Mid



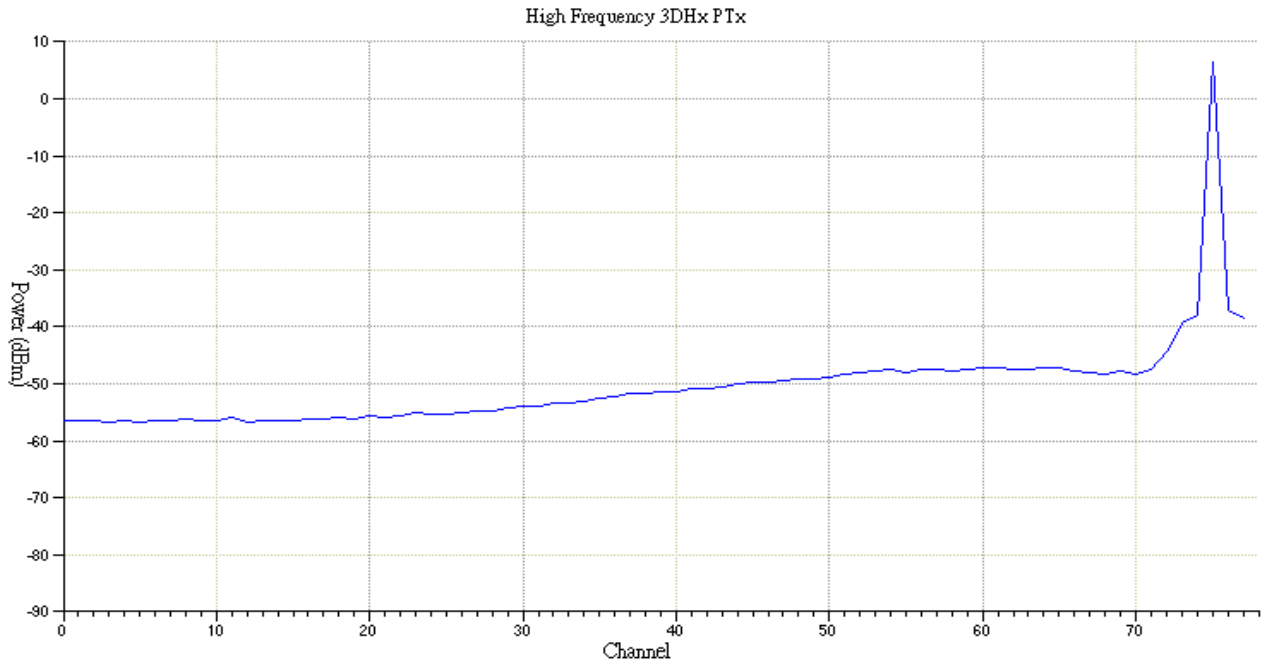
EDR In Band Spurious Emissions - 2DH5 High



EDR_In_Band_Spurious_Emissions - 3DH5 Low



EDR In Band Spurious Emissions - 3DH5 Mid



EDR In Band Spurious Emissions - 3DH5 High

3.3.13. Test Case: RCV/CA/01/C - Sensitivity - Single Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

3.3.14. Test Case: RCV/CA/02/C - Sensitivity - Multi-Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

3.3.15. Test Case: RCV/CA/07/C - EDR Sensitivity

Expected Outcome:
All values as measured must fulfill the following conditions at low, medium and high frequencies:
1.Either BER < 0.007% after 1,600,000 bits or BER < 0.01% after 16,000,000 bit

Packet Type	Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2DH5	2402	0	≤0.007	Pass
	2441	0	≤0.007	Pass
	2480	0	≤0.007	Pass
3DH5	2402	0	≤0.007	Pass
	2441	0	≤0.007	Pass
	2480	0	≤0.007	Pass

3.4. Test Case List for Low Temperature High Voltage

3.4.1. RF Description

EUT Power Class	Class 1
EUT Antenna Gain	2.5 dBi
Test Condition	Low Temperature High Voltage
EUT To Spectrum Loss (Low)	9.64
EUT To Spectrum Loss (Mid)	9.61
EUT To Spectrum Loss (High)	9.77

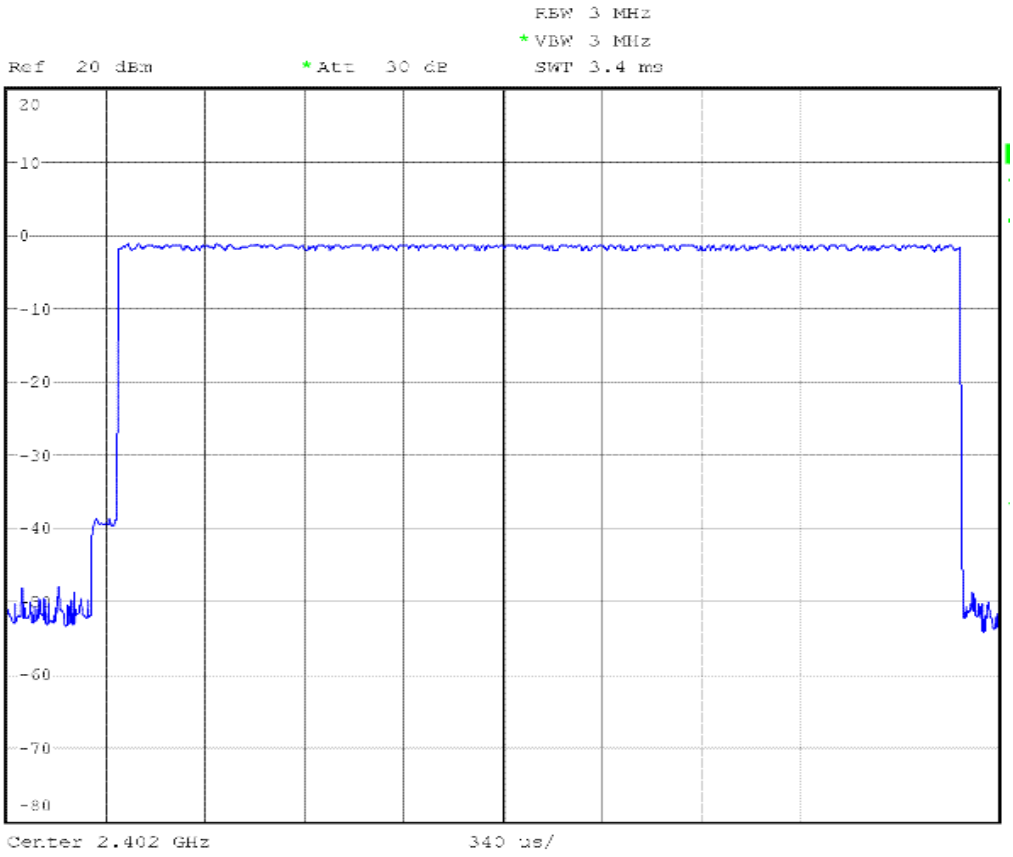
3.4.2. Test Case: TRM/CA/01/C - Output Power

Expected Outcome:

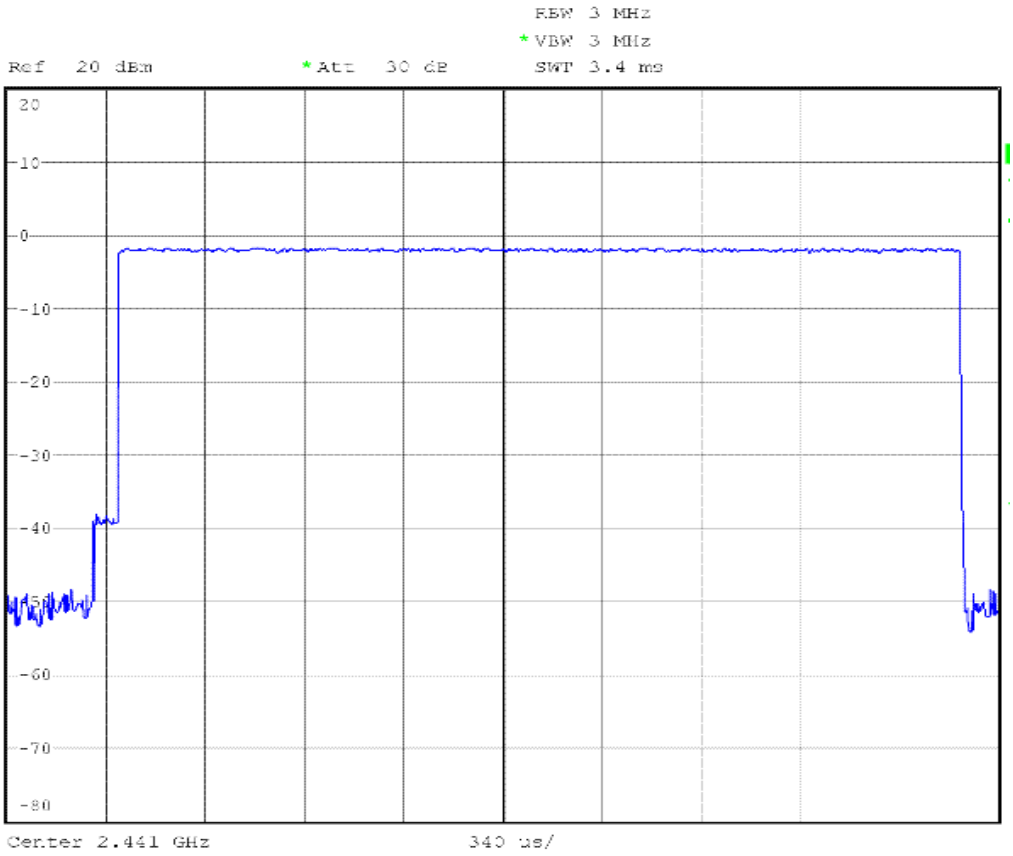
All values as measured must fulfill the following conditions:

1. P av < 100mW (20 dBm) EIRP
2. P pk < 200mW (23 dBm) EIRP
3. If the EUT is a power class 1 equipment :P av > 1mW (0dBm)
4. If the EUT is a power class 2 equipment :0.25mW (-6 dBm) < P av < 2.5mW (4dBm)
5. If the EUT is a power class 3 equipment :P av < 1mW (0dBm)

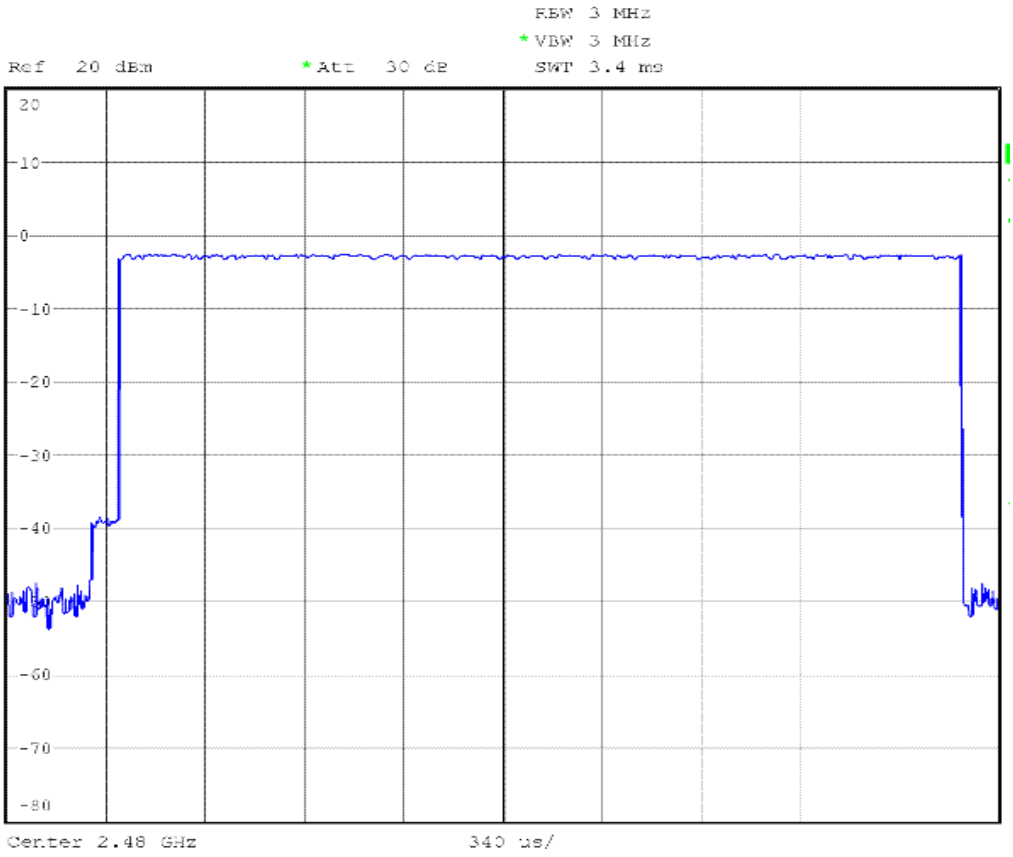
Test Frequency	Item	Value(mW)	Verdict
Low operating frequency (2402MHz)	Peak Power	6.71	N/A
	Average Power	6.29	Pass
	Peak Power (EIRP)	11.94	Pass
	Average Power (EIRP)	11.18	Pass
Mid operating frequency (2441MHz)	Peak Power	5.82	N/A
	Average Power	5.61	Pass
	Peak Power (EIRP)	10.35	Pass
	Average Power (EIRP)	9.98	Pass
High operating frequency (2480MHz)	Peak Power	4.97	N/A
	Average Power	4.76	Pass
	Peak Power (EIRP)	8.83	Pass
	Average Power (EIRP)	8.47	Pass



Output Power (Low operating frequency)



Output Power (Mid operating frequency)



Output Power (High operating frequency)

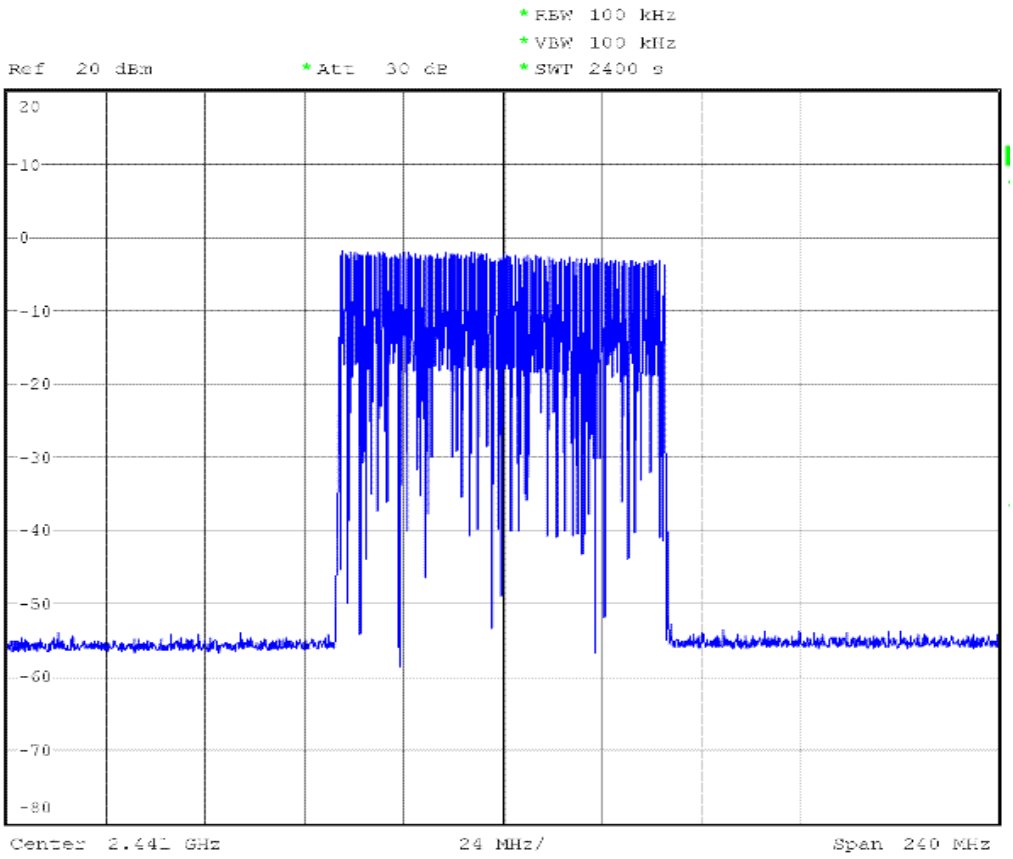
3.4.3. Test Case: TRM/CA/02/C - Power Density

Expected Outcome:

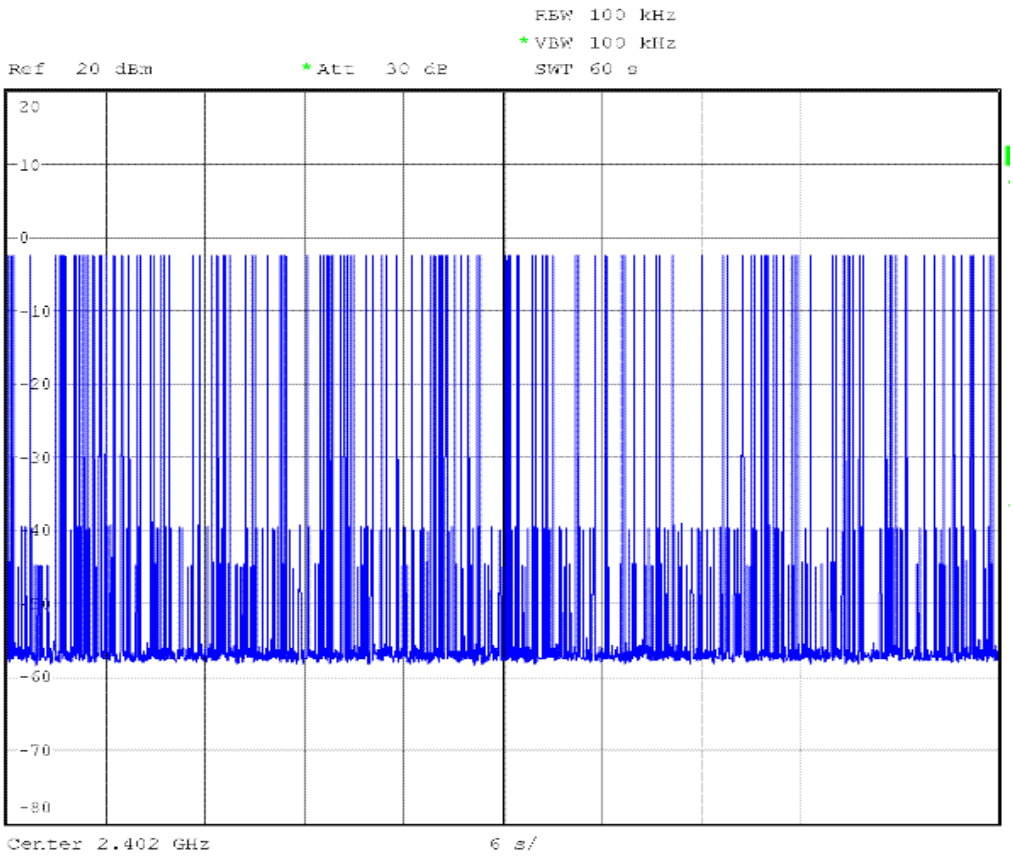
All values as measured must fulfill the following conditions:

1. Power Density < 100 mW (20dBm) per 100 kHz EIRP

Max Frequency (MHz)	Peak Power (mW)	Power Density (mW/100KHz)	Limit (mW/100KHz)	Verdict
2402.00 MHz	5.70	9.10	<100	Pass



Power Density (Step1)



Power Density (Step2)

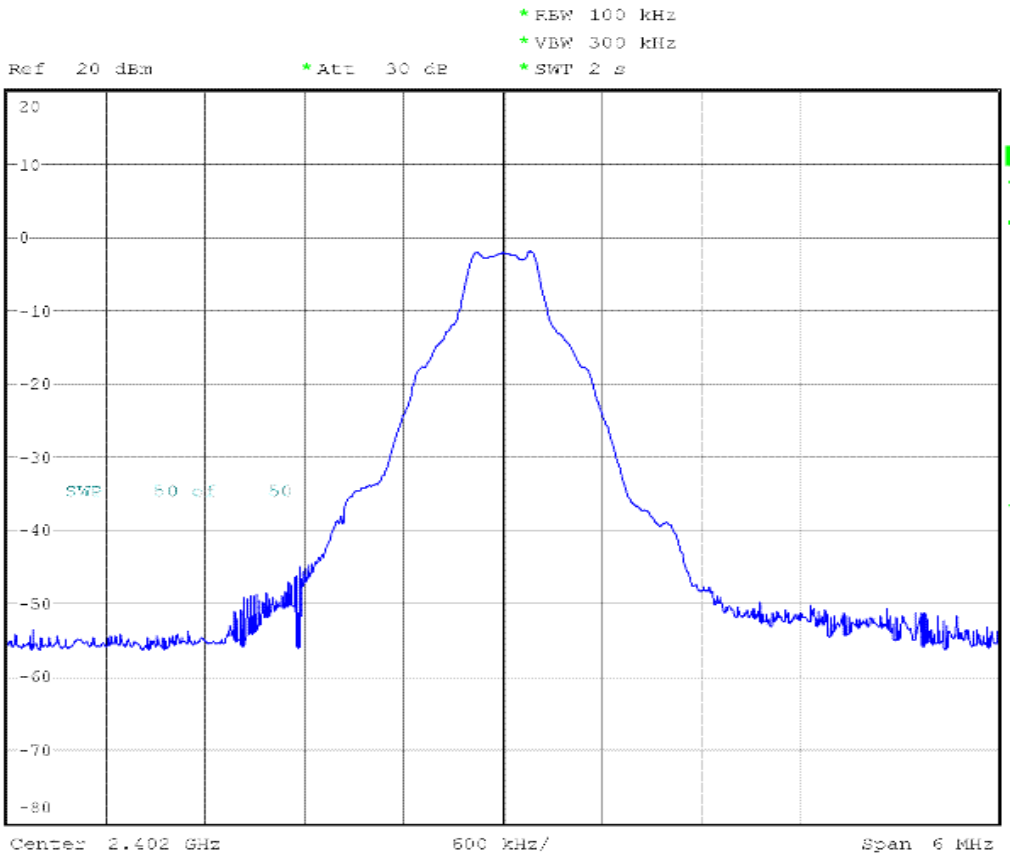
3.4.4. Test Case: TRM/CA/04/C - TX Output Spectrum - Frequency Range

Expected Outcome:

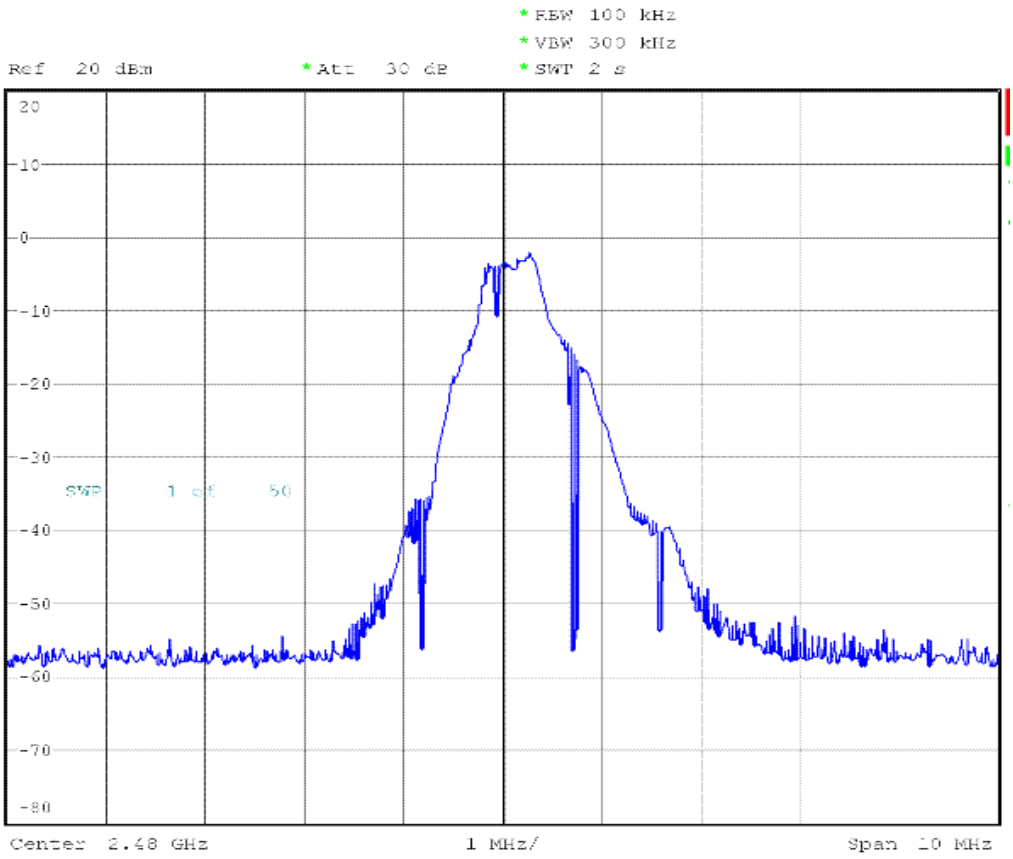
All values as measured must fulfill the following conditions:

1. fL, fH within the allowed frequency band :2.4 GHz – 2.4835 GHz

Frequency (MHz)		Limit(MHz)	Verdict
Lowest(fL)	2400.98	fL>2400.0	Pass
Highest(fH)	2478.42	fH <2483.5	Pass



TX Output Spectrum – Frequency range (fL)



TX Output Spectrum – Frequency range (fH)

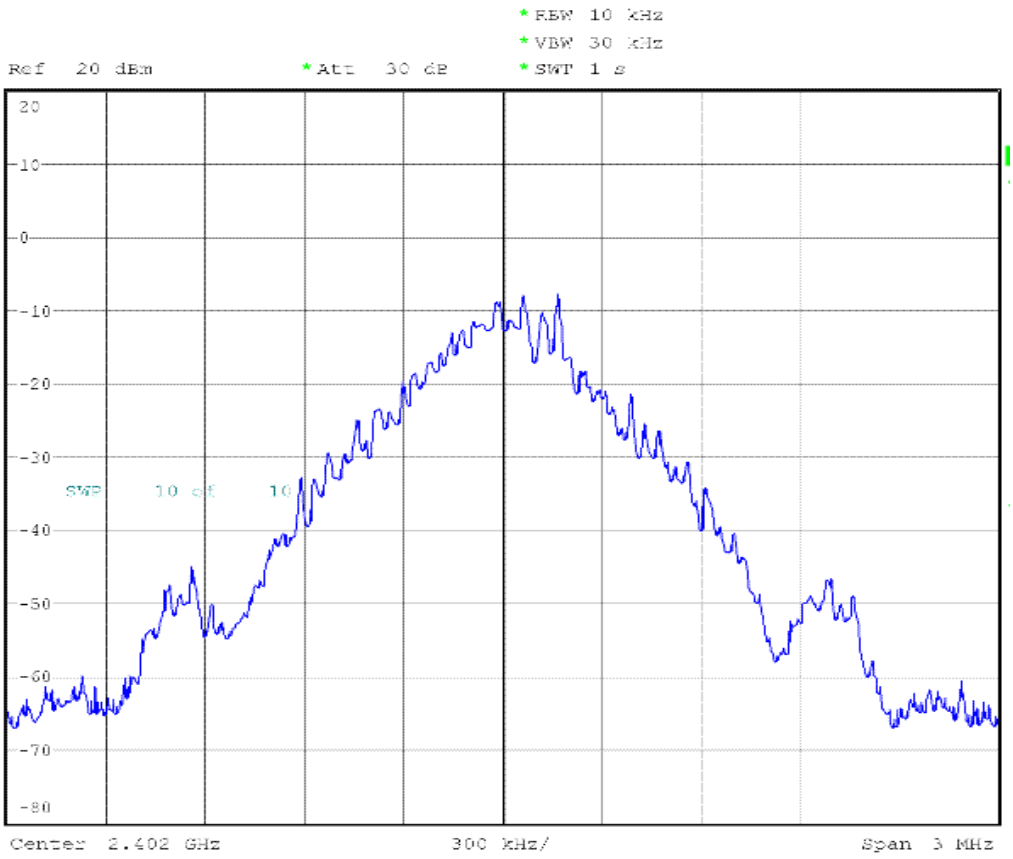
3.4.5. Test Case: TRM/CA/05/C - TX Output Spectrum - 20 dB Bandwidth

Expected Outcome:

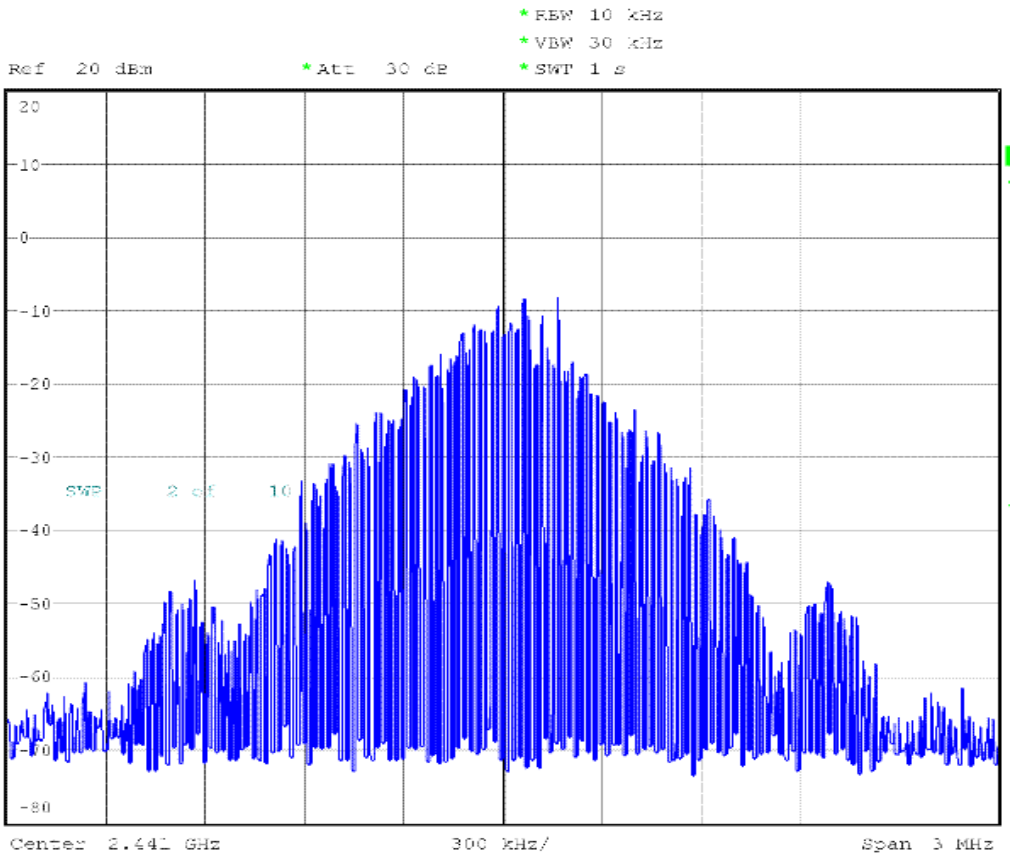
All values as measured must fulfill the following conditions:

1.The Transmit spectrum shall fulfill the following mask :Δf = |fH - fL| ≤ 1.0 MHz

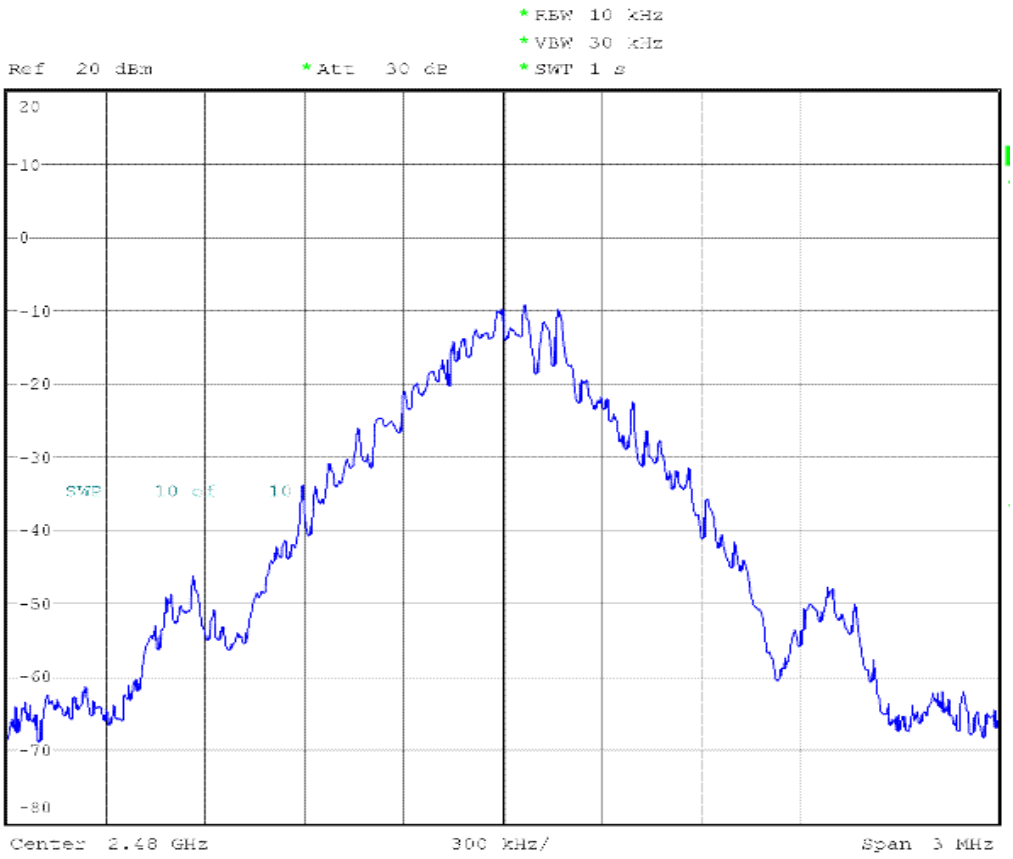
Test Frequency (MHz)		fL (MHz)	fH (MHz)	Δ f = | fH - fL | (MHz)	Limit	Verdict
Low Frequency	2402	2402.05	2402.98	0.93	≤1.0	Pass
Mid Frequency	2441	2441.49	2441.51	0.02	≤1.0	Pass
High Frequency	2480	2480.10	2480.87	0.76	≤1.0	Pass



TX Output Spectrum – 20 dB Bandwidth (Low Frequency)



TX Output Spectrum – 20 dB Bandwidth (Mid Frequency)



TX Output Spectrum – 20 dB Bandwidth (High Frequency)

3.4.6. Test Case: TRM/CA/06/C - TX Output Spectrum - Adjacent Channel Power

Expected Outcome:

All values as measured must fulfill the following conditions:

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency which is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

1. Ptx (f) ≤ – 20 dBm for | M-N | = 2
2. Ptx (f) ≤ – 40 dBm for | M-N | ≥ 3

Test Frequency (MHz)	Adjacent Channel Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
Low Frequency (2402 MHz)	2402	-55.35	≤ -40	Pass
	2403	-51.61	≤ -20	Pass
	2404	-17.96	N/A	N/A
	2405	8.12	N/A	N/A
	2406	-18.12	N/A	N/A

	2407	-51.86	≤ -20	Pass
	2408	-54.64	≤ -40	Pass
	2409	-55.93	≤ -40	Pass
	2410	-56.10	≤ -40	Pass
	2411	-56.23	≤ -40	Pass
	2412	-55.66	≤ -40	Pass
	2413	-55.45	≤ -40	Pass
	2414	-55.31	≤ -40	Pass
	2415	-55.45	≤ -40	Pass
	2416	-55.09	≤ -40	Pass
	2417	-55.10	≤ -40	Pass
	2418	-55.40	≤ -40	Pass
	2419	-55.26	≤ -40	Pass
	2420	-55.42	≤ -40	Pass
	2421	-55.16	≤ -40	Pass
	2422	-55.73	≤ -40	Pass
	2423	-55.61	≤ -40	Pass
	2424	-55.55	≤ -40	Pass
	2425	-55.96	≤ -40	Pass
	2426	-55.69	≤ -40	Pass
	2427	-56.05	≤ -40	Pass
	2428	-56.35	≤ -40	Pass
	2429	-56.81	≤ -40	Pass
	2430	-56.58	≤ -40	Pass
	2431	-57.09	≤ -40	Pass
	2432	-57.56	≤ -40	Pass
	2433	-57.34	≤ -40	Pass
	2434	-57.48	≤ -40	Pass
	2435	-58.07	≤ -40	Pass
	2436	-58.68	≤ -40	Pass
	2437	-58.26	≤ -40	Pass
	2438	-58.85	≤ -40	Pass
	2439	-59.18	≤ -40	Pass
	2440	-59.54	≤ -40	Pass
	2441	-59.27	≤ -40	Pass
	2442	-60.09	≤ -40	Pass
	2443	-60.42	≤ -40	Pass
	2444	-60.70	≤ -40	Pass

	2445	-60.87	≤ -40	Pass
	2446	-61.29	≤ -40	Pass
	2447	-61.56	≤ -40	Pass
	2448	-61.78	≤ -40	Pass
	2449	-62.10	≤ -40	Pass
	2450	-62.29	≤ -40	Pass
	2451	-62.61	≤ -40	Pass
	2452	-62.89	≤ -40	Pass
	2453	-63.05	≤ -40	Pass
	2454	-63.37	≤ -40	Pass
	2455	-63.48	≤ -40	Pass
	2456	-63.85	≤ -40	Pass
	2457	-61.29	≤ -40	Pass
	2458	-63.99	≤ -40	Pass
	2459	-63.98	≤ -40	Pass
	2460	-64.17	≤ -40	Pass
	2461	-64.16	≤ -40	Pass
	2462	-64.32	≤ -40	Pass
	2463	-64.40	≤ -40	Pass
	2464	-64.39	≤ -40	Pass
	2465	-64.46	≤ -40	Pass
	2466	-64.47	≤ -40	Pass
	2467	-64.39	≤ -40	Pass
	2468	-64.58	≤ -40	Pass
	2469	-64.44	≤ -40	Pass
	2470	-64.50	≤ -40	Pass
	2471	-64.27	≤ -40	Pass
	2472	-64.53	≤ -40	Pass
	2473	-64.39	≤ -40	Pass
	2474	-64.46	≤ -40	Pass
	2475	-64.57	≤ -40	Pass
	2476	-63.60	≤ -40	Pass
	2477	-44.33	≤ -40	Pass
	2478	-63.63	≤ -40	Pass
	2479	-53.90	≤ -40	Pass
	2480	-64.56	≤ -40	Pass
	2402	-60.18	≤ -40	Pass
	2403	-59.82	≤ -40	Pass

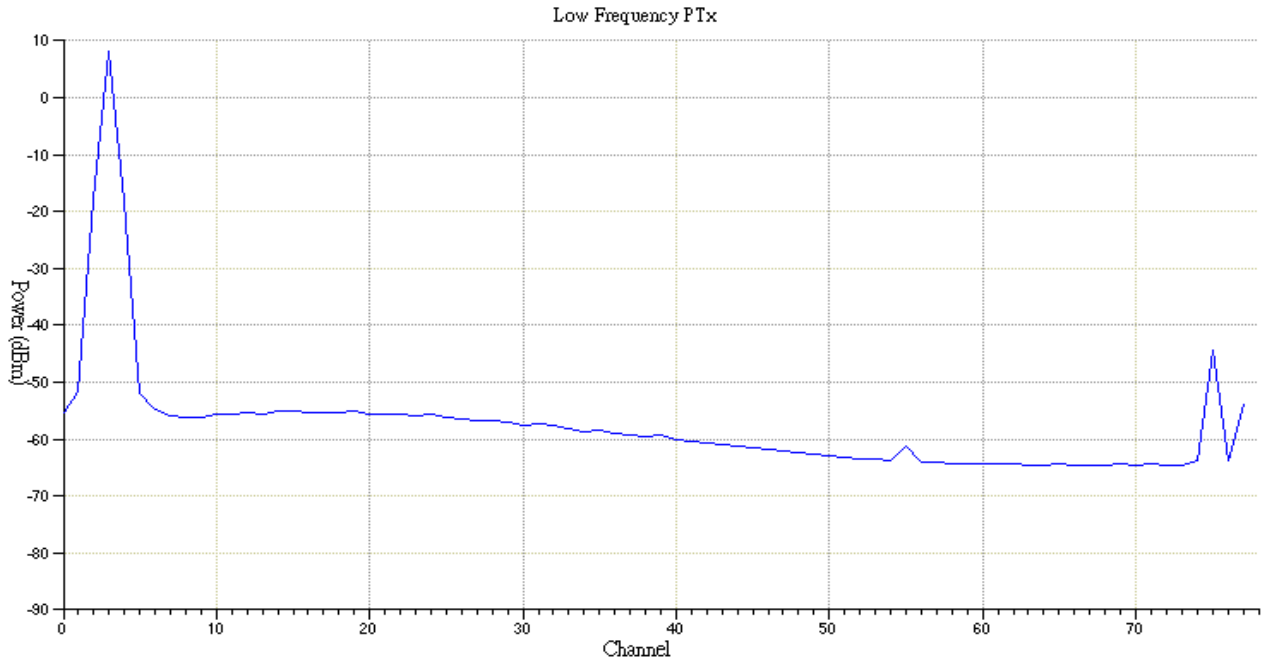
Mid Frequency (2441 MHz)	2404	-59.51	≤ -40	Pass
	2405	-44.34	≤ -40	Pass
	2406	-58.84	≤ -40	Pass
	2407	-52.05	≤ -40	Pass
	2408	-58.33	≤ -40	Pass
	2409	-58.05	≤ -40	Pass
	2410	-58.20	≤ -40	Pass
	2411	-57.35	≤ -40	Pass
	2412	-57.26	≤ -40	Pass
	2413	-57.03	≤ -40	Pass
	2414	-56.83	≤ -40	Pass
	2415	-56.76	≤ -40	Pass
	2416	-56.35	≤ -40	Pass
	2417	-56.18	≤ -40	Pass
	2418	-56.13	≤ -40	Pass
	2419	-55.74	≤ -40	Pass
	2420	-55.57	≤ -40	Pass
	2421	-55.51	≤ -40	Pass
	2422	-55.51	≤ -40	Pass
	2423	-55.30	≤ -40	Pass
	2424	-55.21	≤ -40	Pass
	2425	-55.19	≤ -40	Pass
	2426	-54.86	≤ -40	Pass
	2427	-55.05	≤ -40	Pass
	2428	-54.94	≤ -40	Pass
	2429	-55.03	≤ -40	Pass
	2430	-55.10	≤ -40	Pass
	2431	-54.84	≤ -40	Pass
	2432	-55.43	≤ -40	Pass
	2433	-55.98	≤ -40	Pass
	2434	-55.98	≤ -40	Pass
	2435	-56.27	≤ -40	Pass
	2436	-55.45	≤ -40	Pass
	2437	-55.81	≤ -40	Pass
	2438	-55.59	≤ -40	Pass
	2439	-52.00	≤ -20	Pass
	2440	-18.29	N/A	N/A
	2441	7.94	N/A	N/A

	2442	-18.12	N/A	N/A
	2443	-52.00	≤ -20	Pass
	2444	-55.08	≤ -40	Pass
	2445	-55.88	≤ -40	Pass
	2446	-55.70	≤ -40	Pass
	2447	-56.27	≤ -40	Pass
	2448	-56.30	≤ -40	Pass
	2449	-55.66	≤ -40	Pass
	2450	-55.49	≤ -40	Pass
	2451	-55.69	≤ -40	Pass
	2452	-55.34	≤ -40	Pass
	2453	-55.23	≤ -40	Pass
	2454	-55.34	≤ -40	Pass
	2455	-55.88	≤ -40	Pass
	2456	-55.55	≤ -40	Pass
	2457	-55.44	≤ -40	Pass
	2458	-55.83	≤ -40	Pass
	2459	-55.68	≤ -40	Pass
	2460	-55.66	≤ -40	Pass
	2461	-56.18	≤ -40	Pass
	2462	-56.43	≤ -40	Pass
	2463	-56.45	≤ -40	Pass
	2464	-56.59	≤ -40	Pass
	2465	-57.10	≤ -40	Pass
	2466	-57.00	≤ -40	Pass
	2467	-57.03	≤ -40	Pass
	2468	-57.62	≤ -40	Pass
	2469	-57.83	≤ -40	Pass
	2470	-58.06	≤ -40	Pass
	2471	-58.16	≤ -40	Pass
	2472	-58.71	≤ -40	Pass
	2473	-58.61	≤ -40	Pass
	2474	-59.11	≤ -40	Pass
	2475	-59.30	≤ -40	Pass
	2476	-59.66	≤ -40	Pass
	2477	-60.07	≤ -40	Pass
	2478	-60.25	≤ -40	Pass
	2479	-60.49	≤ -40	Pass

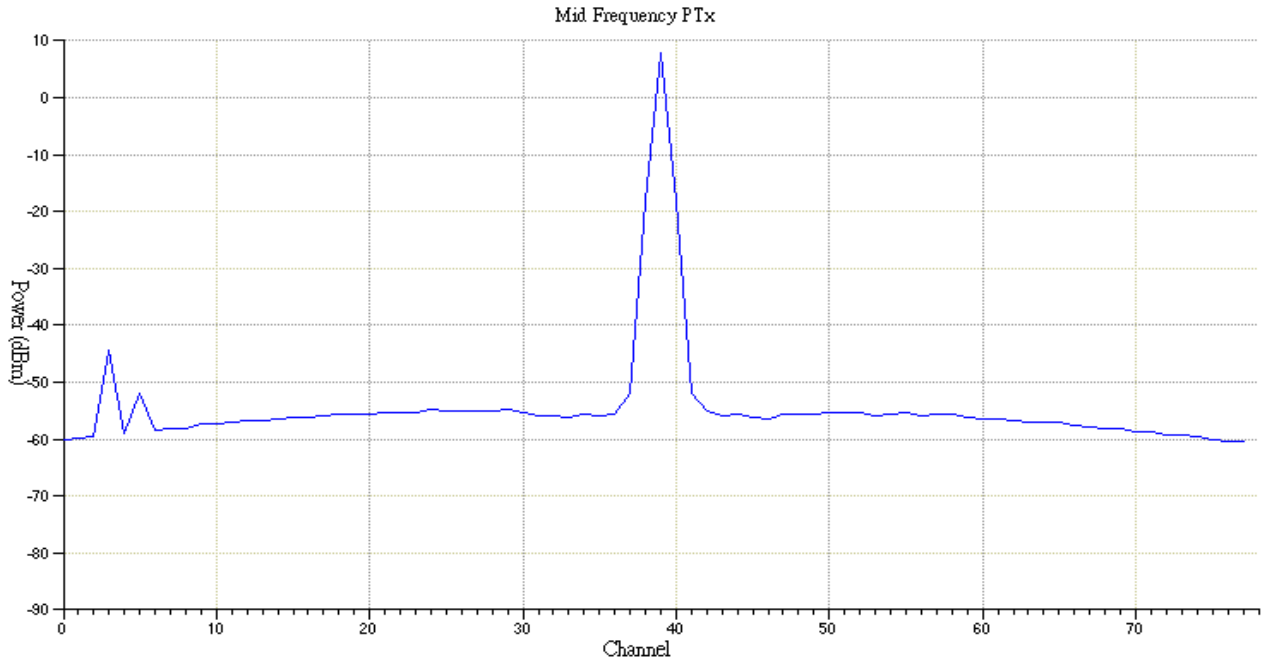
	2480	-60.55	≤ -40	Pass
High Frequency (2480 MHz)	2402	-65.00	≤ -40	Pass
	2403	-64.86	≤ -40	Pass
	2404	-63.88	≤ -40	Pass
	2405	-44.01	≤ -40	Pass
	2406	-63.75	≤ -40	Pass
	2407	-52.76	≤ -40	Pass
	2408	-64.80	≤ -40	Pass
	2409	-64.73	≤ -40	Pass
	2410	-64.89	≤ -40	Pass
	2411	-64.84	≤ -40	Pass
	2412	-64.78	≤ -40	Pass
	2413	-64.77	≤ -40	Pass
	2414	-64.73	≤ -40	Pass
	2415	-64.68	≤ -40	Pass
	2416	-64.75	≤ -40	Pass
	2417	-64.71	≤ -40	Pass
	2418	-64.40	≤ -40	Pass
	2419	-64.45	≤ -40	Pass
	2420	-64.35	≤ -40	Pass
	2421	-64.48	≤ -40	Pass
	2422	-64.36	≤ -40	Pass
	2423	-63.92	≤ -40	Pass
	2424	-63.77	≤ -40	Pass
	2425	-63.27	≤ -40	Pass
	2426	-63.50	≤ -40	Pass
	2427	-63.48	≤ -40	Pass
	2428	-63.18	≤ -40	Pass
	2429	-62.95	≤ -40	Pass
	2430	-62.63	≤ -40	Pass
	2431	-62.38	≤ -40	Pass
	2432	-62.37	≤ -40	Pass
	2433	-61.76	≤ -40	Pass
	2434	-61.77	≤ -40	Pass
	2435	-61.31	≤ -40	Pass
	2436	-60.96	≤ -40	Pass
	2437	-60.78	≤ -40	Pass
	2438	-60.56	≤ -40	Pass

	2439	-60.24	≤ -40	Pass
	2440	-60.09	≤ -40	Pass
	2441	-59.24	≤ -40	Pass
	2442	-59.17	≤ -40	Pass
	2443	-59.04	≤ -40	Pass
	2444	-58.75	≤ -40	Pass
	2445	-58.54	≤ -40	Pass
	2446	-58.59	≤ -40	Pass
	2447	-57.86	≤ -40	Pass
	2448	-57.61	≤ -40	Pass
	2449	-57.40	≤ -40	Pass
	2450	-57.10	≤ -40	Pass
	2451	-56.94	≤ -40	Pass
	2452	-56.84	≤ -40	Pass
	2453	-56.51	≤ -40	Pass
	2454	-56.53	≤ -40	Pass
	2455	-56.09	≤ -40	Pass
	2456	-56.13	≤ -40	Pass
	2457	-55.80	≤ -40	Pass
	2458	-55.92	≤ -40	Pass
	2459	-55.61	≤ -40	Pass
	2460	-55.75	≤ -40	Pass
	2461	-55.77	≤ -40	Pass
	2462	-55.39	≤ -40	Pass
	2463	-55.54	≤ -40	Pass
	2464	-55.45	≤ -40	Pass
	2465	-55.43	≤ -40	Pass
	2466	-55.64	≤ -40	Pass
	2467	-55.33	≤ -40	Pass
	2468	-56.16	≤ -40	Pass
	2469	-56.31	≤ -40	Pass
	2470	-56.64	≤ -40	Pass
	2471	-56.76	≤ -40	Pass
	2472	-56.96	≤ -40	Pass
	2473	-56.65	≤ -40	Pass
	2474	-55.98	≤ -40	Pass
	2475	-52.68	≤ -20	Pass
	2476	-19.05	N/A	N/A

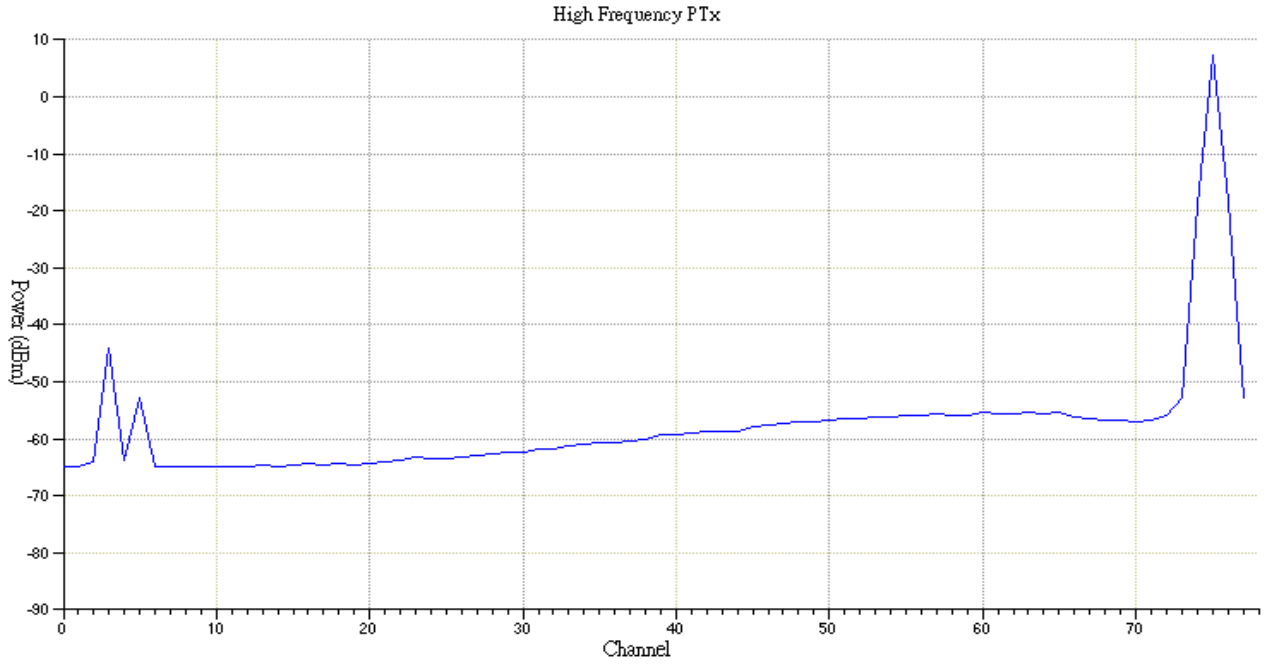
	2477	7.23	N/A	N/A
	2478	-18.63	N/A	N/A
	2479	-52.66	≤ -20	Pass
	2480	-55.58	≤ -40	Pass



TX Output Spectrum – Adjacent channel power（Low Frequency)



TX Output Spectrum – Adjacent channel power (Mid Frequency)



TX Output Spectrum – Adjacent channel power (High Frequency)

3.4.7. Test Case: TRM/CA/07/C - Modulation Characteristics

Expected Outcome:
All values as measured must fulfill the following conditions:

1. 140 kHz ≤ Δf1avg ≤ 175 kHz
2. Δf2max ≥ 115 kHz for at least 99.9% of all Δf2max
3. Δf2avg/Δf1avg ≥ 0.8

Test Frequency (MHz)	Packet Number	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402 MHz)	1	Δ f1avg (kHz)	163.27	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.54	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	164.13	N/A	N/A
		Δ f2avg/Δf1avg	1.01	≥ 0.8	Pass
	2	Δ f1avg (kHz)	163.28	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.95	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.88	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	3	Δ f1avg (kHz)	163.96	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.45	≥ 115 kHz	Pass

		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	164.18	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	4	Δ f1avg (kHz)	163.35	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.73	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.51	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	5	Δ f1avg (kHz)	164.07	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.61	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.57	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	6	Δ f1avg (kHz)	163.28	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.68	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.87	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	7	Δ f1avg (kHz)	163.48	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.20	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.64	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	8	Δ f1avg (kHz)	163.19	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.31	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.08	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	9	Δ f1avg (kHz)	163.97	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.59	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.41	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	10	Δ f1avg (kHz)	163.91	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.77	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.41	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass

Mid operating Frequency (2441 MHz)	1	Δ f1avg (kHz)	163.66	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.63	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.59	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	2	Δ f1avg (kHz)	163.29	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.37	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.99	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	3	Δ f1avg (kHz)	163.97	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.03	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.77	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	4	Δ f1avg (kHz)	163.37	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.47	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.00	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	5	Δ f1avg (kHz)	163.30	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.71	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.41	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	6	Δ f1avg (kHz)	163.10	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.41	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.40	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	7	Δ f1avg (kHz)	163.57	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.47	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.40	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	8	Δ f1avg (kHz)	163.63	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.34	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass

		Δ f2avg(kHz)	163.77	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	9	Δ f1avg (kHz)	163.28	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	171.19	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	164.53	N/A	N/A
		Δ f2avg/Δf1avg	1.01	≥ 0.8	Pass
	10	Δ f1avg (kHz)	162.86	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.39	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	164.03	N/A	N/A
		Δ f2avg/Δf1avg	1.01	≥ 0.8	Pass
High operating Frequency (2480 MHz)	1	Δ f1avg (kHz)	168.52	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.95	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.94	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	2	Δ f1avg (kHz)	168.20	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.50	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.36	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	3	Δ f1avg (kHz)	168.49	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.21	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.72	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	4	Δ f1avg (kHz)	168.17	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.43	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.96	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	5	Δ f1avg (kHz)	168.04	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.48	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.01	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	6	Δ f1avg (kHz)	168.03	140 kHz≤Δf1avg≤175 kHz	Pass

		Δ f2max (kHz)	166.76	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.46	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	7	Δ f1avg (kHz)	168.17	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.07	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.55	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	8	Δ f1avg (kHz)	167.78	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.37	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.17	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	9	Δ f1avg (kHz)	167.28	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	163.45	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.04	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	10	Δ f1avg (kHz)	167.84	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.17	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.15	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass

3.4.8. Test Case: TRM/CA/08/C - Initial Carrier Frequency Tolerance

Expected Outcome:

All values as measured must fulfill the following conditions:

Each of the EUT's carrier frequency f0 as measured must be within ±75kHz from the Eut's chosen nominal carrier frequency fTX

1. fTX – 75 kHz ≤ f 0 ≤ fTX + 75 kHz.

Test Frequency (MHz)	Packets No.	Carrier Frequency (KHz)	Limit (kHz)	Verdict
Low operating Frequency (2402 MHz)	1	3.87	-75≤ f0 ≤ +75	Pass
	2	5.99	-75≤ f0 ≤ +75	Pass
	3	3.83	-75≤ f0 ≤ +75	Pass
	4	5.06	-75≤ f0 ≤ +75	Pass
	5	5.49	-75≤ f0 ≤ +75	Pass
	6	6.13	-75≤ f0 ≤ +75	Pass
	7	4.15	-75≤ f0 ≤ +75	Pass
	8	5.91	-75≤ f0 ≤ +75	Pass
	9	6.84	-75≤ f0 ≤ +75	Pass
	10	3.81	-75≤ f0 ≤ +75	Pass
Mid operating Frequency (2441 MHz)	1	13.49	-75≤ f0 ≤ +75	Pass
	2	9.36	-75≤ f0 ≤ +75	Pass
	3	13.44	-75≤ f0 ≤ +75	Pass
	4	11.55	-75≤ f0 ≤ +75	Pass
	5	11.53	-75≤ f0 ≤ +75	Pass
	6	14.38	-75≤ f0 ≤ +75	Pass
	7	11.57	-75≤ f0 ≤ +75	Pass
	8	10.25	-75≤ f0 ≤ +75	Pass
	9	11.71	-75≤ f0 ≤ +75	Pass
	10	14.49	-75≤ f0 ≤ +75	Pass
High operating Frequency (2480 MHz)	1	15.85	-75≤ f0 ≤ +75	Pass
	2	15.07	-75≤ f0 ≤ +75	Pass
	3	12.33	-75≤ f0 ≤ +75	Pass
	4	11.25	-75≤ f0 ≤ +75	Pass
	5	9.19	-75≤ f0 ≤ +75	Pass
	6	12.08	-75≤ f0 ≤ +75	Pass
	7	15.18	-75≤ f0 ≤ +75	Pass
	8	13.21	-75≤ f0 ≤ +75	Pass

	9	15.87	-75≤ f0 ≤ +75	Pass
	10	12.18	-75≤ f0 ≤ +75	Pass

3.4.9. Test Case: TRM/CA/09/C - Carrier Frequency Drift

Expected Outcome:

All values as measured must fulfill the following conditions:

1. One slot packet -25kHz≤ MAX Frequency Drift ≤+25kHz
2. Three slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
3. Five slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
4. The maximum drift rate is 20000 Hz / 50μs.

Packet Type: DH1

Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	6.72	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.97	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	7.23	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.38	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	6.15	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	2.15	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	7.18	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	2.54	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	6.44	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.34	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.29	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	1.64	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	6.92	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	2.47	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.22	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	1.70	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	6.61	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	2.33	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.44	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	2.42	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	13.10	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.23	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	8.14	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.04	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	13.51	-25≤ fmax≤+25	Pass

	3	Maximum Drift Rate(kHz/50μs)	5.20	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	14.39	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	7.98	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	15.82	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.49	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	14.67	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.87	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	11.80	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.43	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	11.58	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.39	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	11.67	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.18	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	16.31	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	11.07	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	15.26	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	5.17	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	11.19	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.33	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	16.64	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.86	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	14.38	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	2.68	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	17.01	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.04	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	12.84	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.56	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	15.76	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.76	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	11.18	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.09	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	15.11	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.38	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	13.24	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	4.24	≤ 20	Pass
Packet Type: DH3					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict

Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	7.46	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.87	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	7.08	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.94	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	7.25	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	2.88	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	7.80	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	2.57	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	7.42	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.25	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.85	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.14	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	7.24	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	2.59	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.94	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.62	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	7.14	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.09	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	7.45	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.34	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	9.73	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.01	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	11.04	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.27	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	13.31	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.39	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	14.24	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	8.19	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	11.44	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	4.99	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	9.14	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	2.86	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	10.44	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.70	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	12.20	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.22	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	9.14	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.15	≤ 20	Pass

	10	MAX Frequency Drift(kHz)	8.71	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	2.78	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	14.13	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.05	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	16.20	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	6.15	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	11.88	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.44	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	12.24	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.25	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	13.76	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	4.16	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	13.81	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.52	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	14.40	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.78	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	11.31	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.88	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	16.00	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.64	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	14.74	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	7.46	≤ 20	Pass
Packet Type: DH5					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	8.32	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.27	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	7.51	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.83	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	7.35	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.37	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	6.95	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	2.93	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	7.53	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.80	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	7.77	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	2.95	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	7.35	-25≤ fmax≤+25	Pass

	7	Maximum Drift Rate(kHz/50μs)	2.88	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	7.46	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.82	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	7.06	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	2.85	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.82	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.31	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	9.17	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.84	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	11.00	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.62	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	9.44	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.54	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	11.39	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.47	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	9.02	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.71	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	11.97	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.51	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	11.32	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.67	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	11.43	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.43	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	9.98	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.46	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	12.60	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.81	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	13.74	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.58	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	11.82	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.55	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	12.79	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	4.80	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	12.22	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.20	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	13.56	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	5.44	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	12.13	-25≤ fmax≤+25	Pass

	6	Maximum Drift Rate(kHz/50μs)	4.23	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	12.59	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.61	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	13.48	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.81	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	15.09	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.96	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	12.01	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	4.26	≤ 20	Pass

3.4.10. Test Case: TRM/CA/10/C - EDR Relative Transmit Power

Expected Outcome:

All values as measured must fulfill the following conditions:

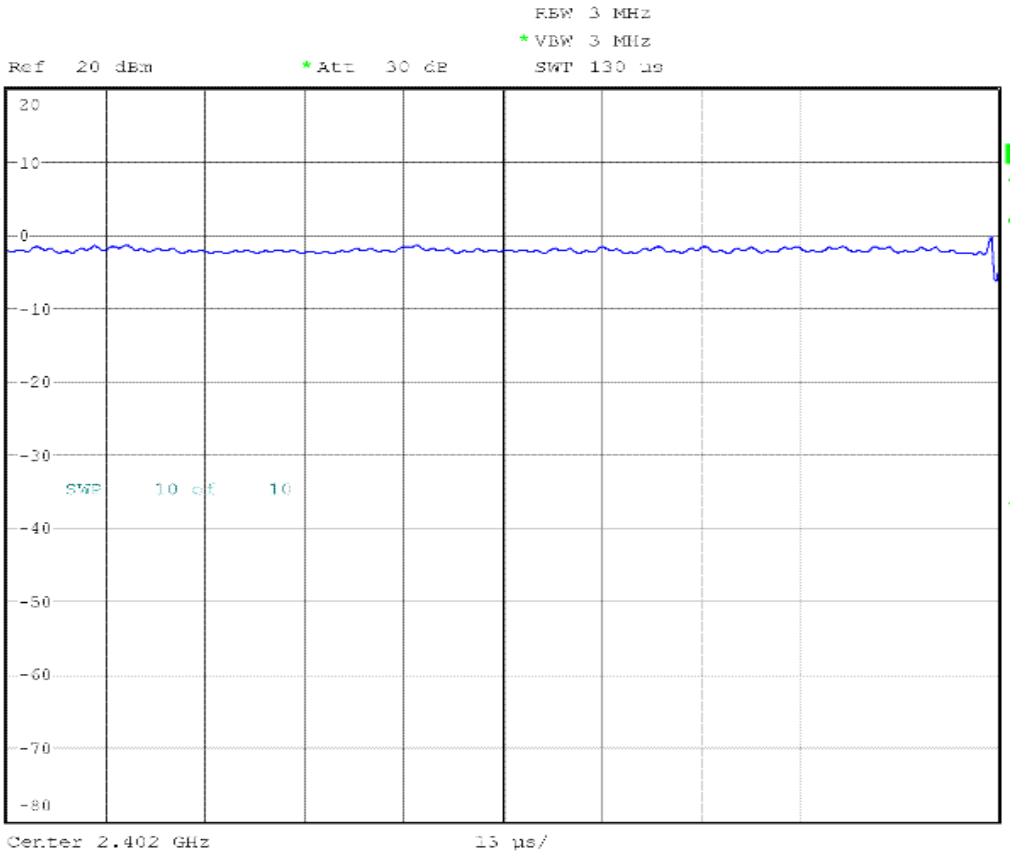
1. For all pairs of results: (PGFSK– 4dB) < PDPSK < (PGFSK + 1dB)

Packet Type:2DH5

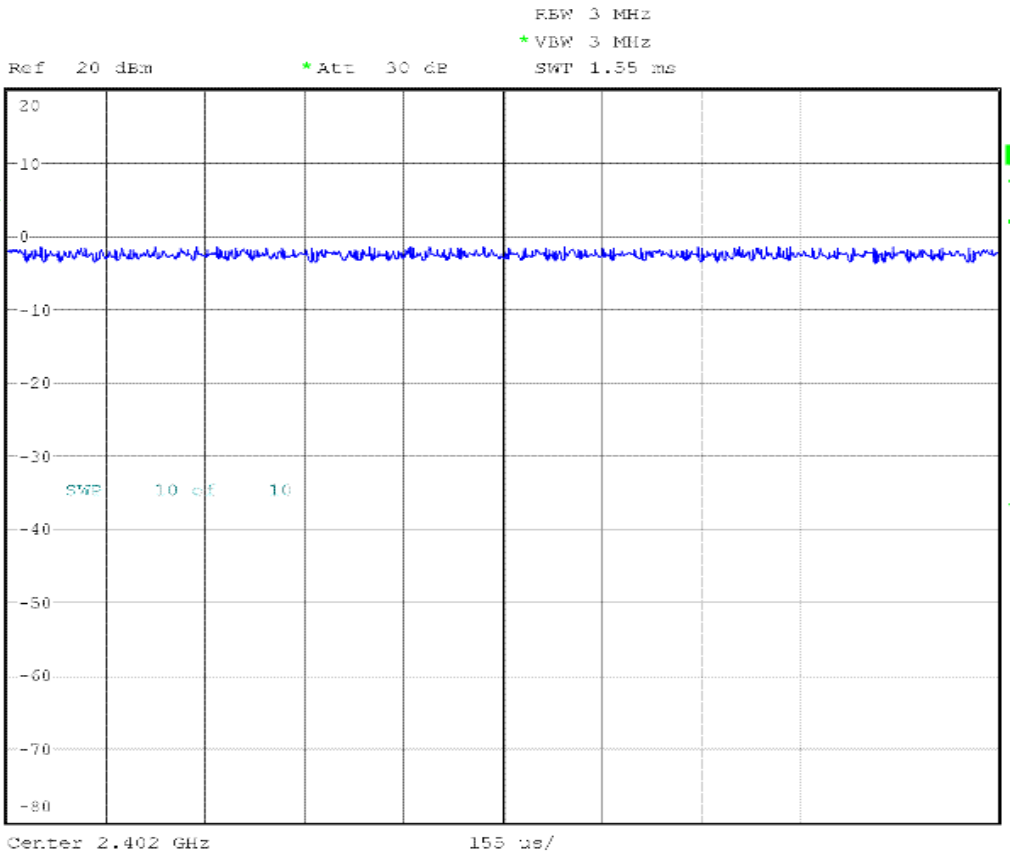
Test Frequency (MHz)	Average Power PGFSK (dBm)	Average Power PDPSK (dBm)	Limit (dBm)	Verdict
2402	7.48	7.13	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2402	-22.30	-22.55	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	7.16	6.98	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	-22.48	-22.81	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	6.47	6.04	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	-23.15	-23.40	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass

Packet Type: 3DH5

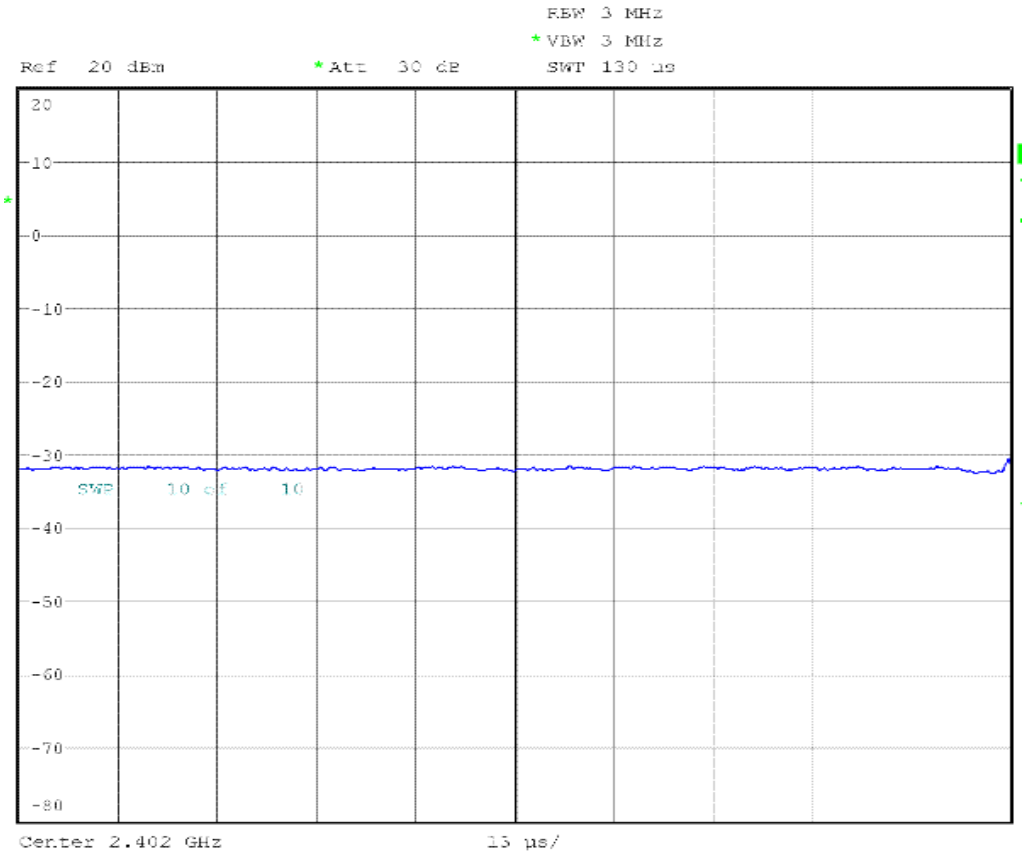
Test Frequency (MHz)	Average Power PGFSK (dBm)	Average Power PDPSK (dBm)	Limit (dBm)	Verdict
2402	7.49	7.11	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2402	-22.30	-22.55	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	7.17	6.75	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	-22.44	-22.85	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	6.47	6.12	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	-23.14	-23.38	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass



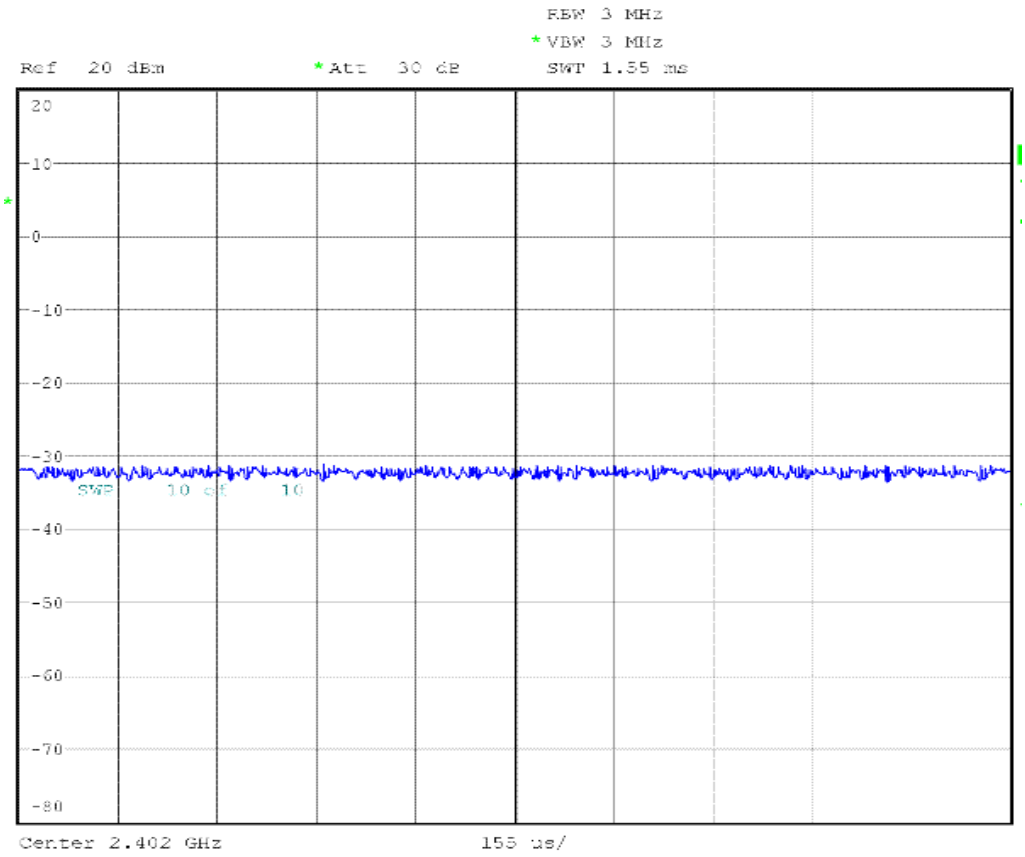
EDR Relative Transmit Power GFSK Low Max (2DH5)



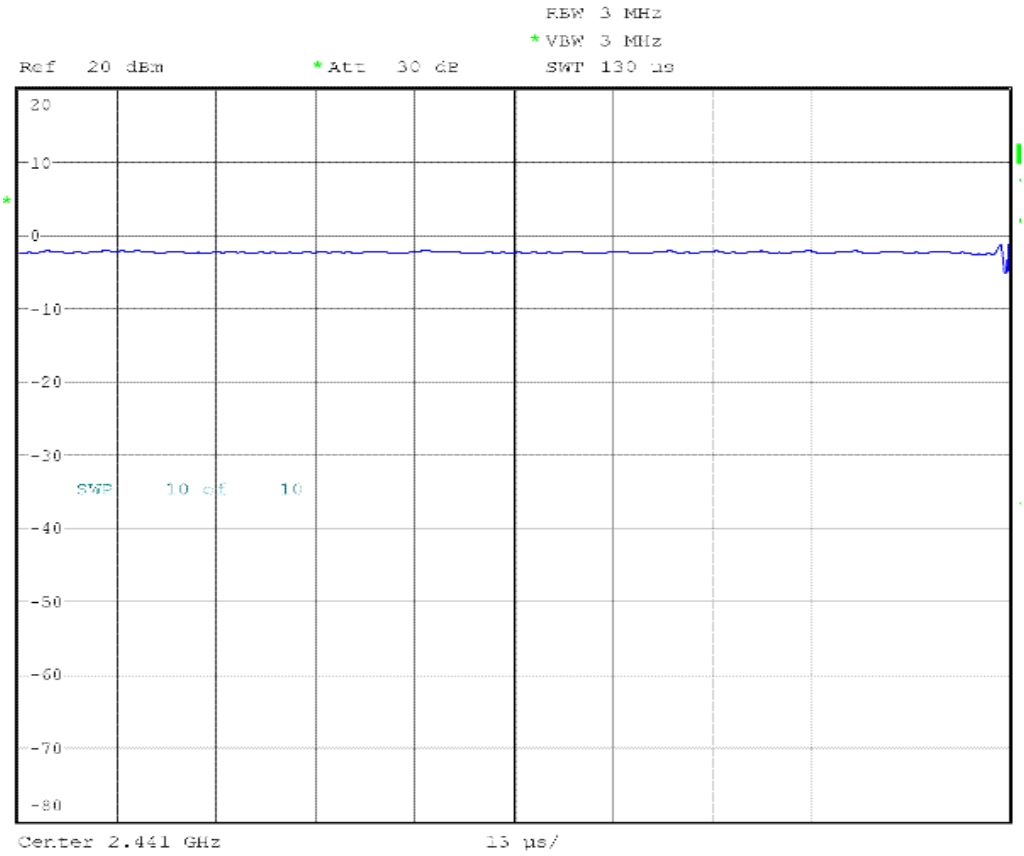
EDR Relative Transmit Power DPSK Low Max (2DH5)



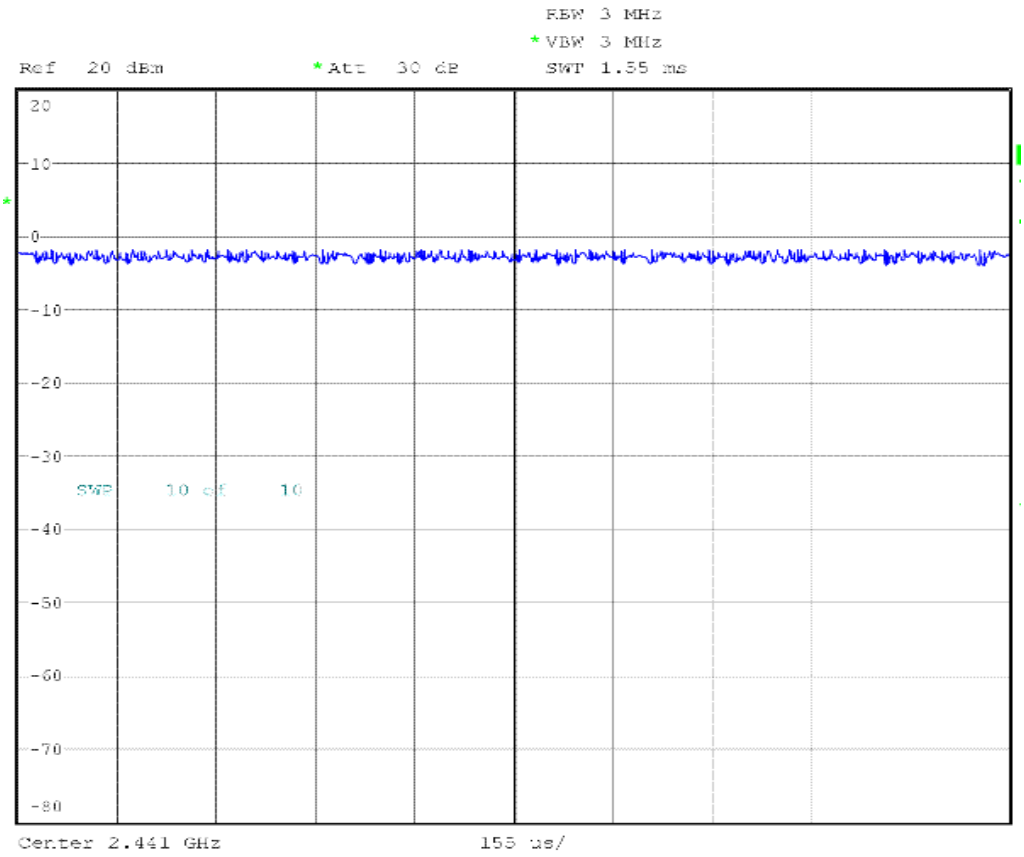
EDR Relative Transmit Power GFSK Low Min (2DH5)



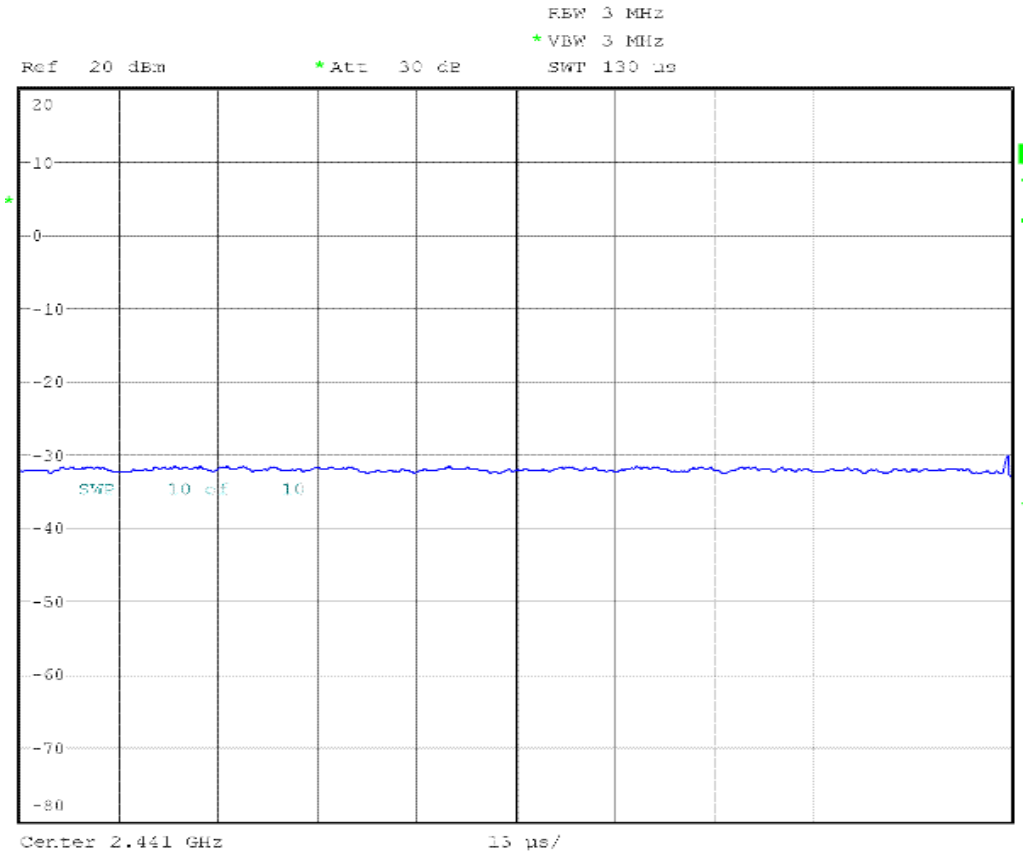
EDR Relative Transmit Power DPSK Low Min (2DH5)



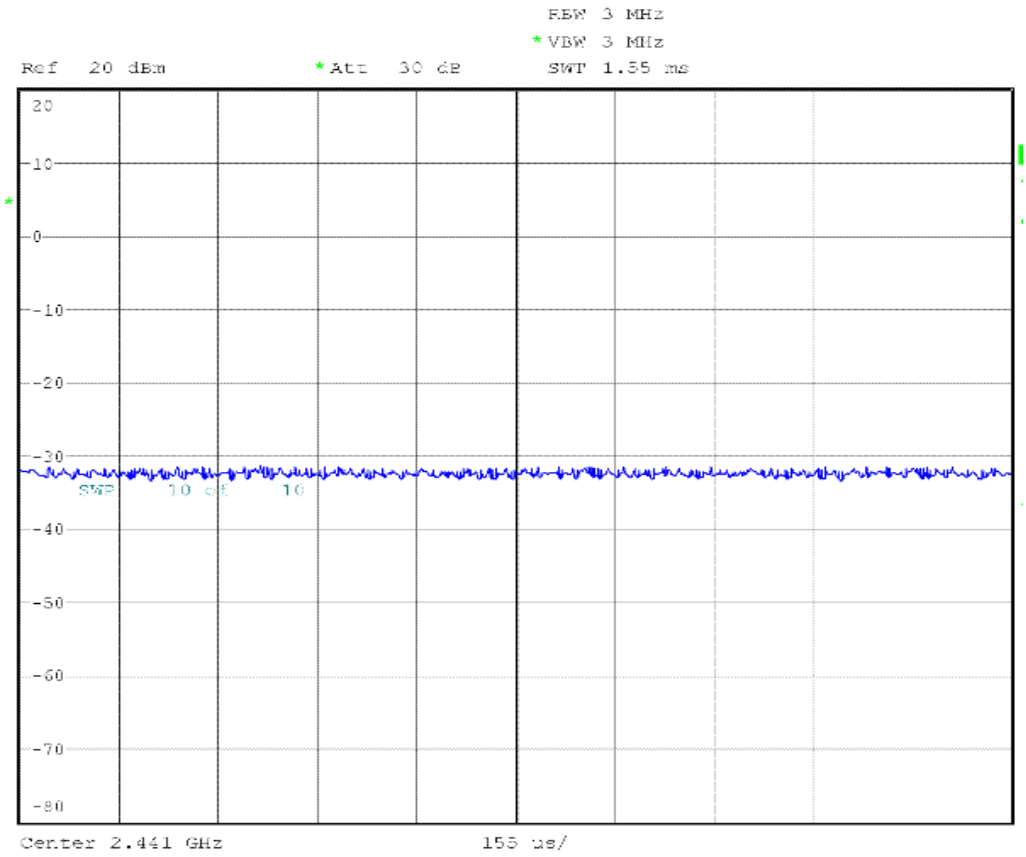
EDR Relative Transmit Power GFSK Mid Max (2DH5)



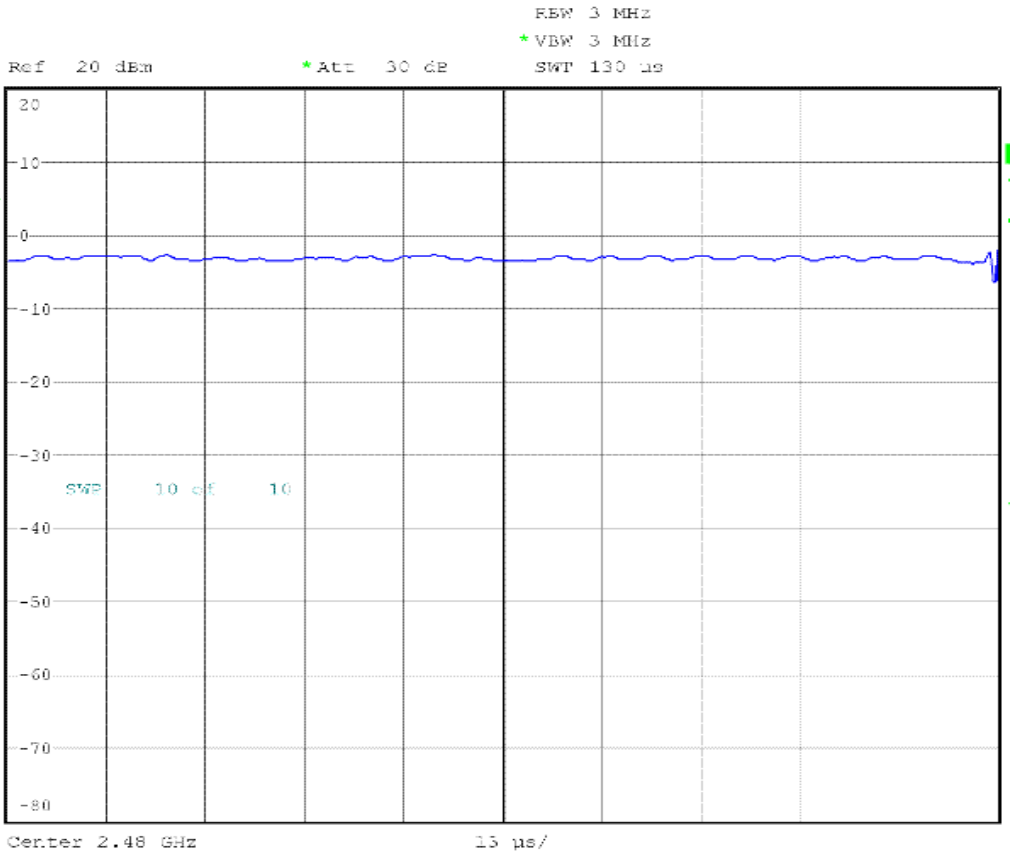
EDR Relative Transmit Power DPSK Mid Max (2DH5)



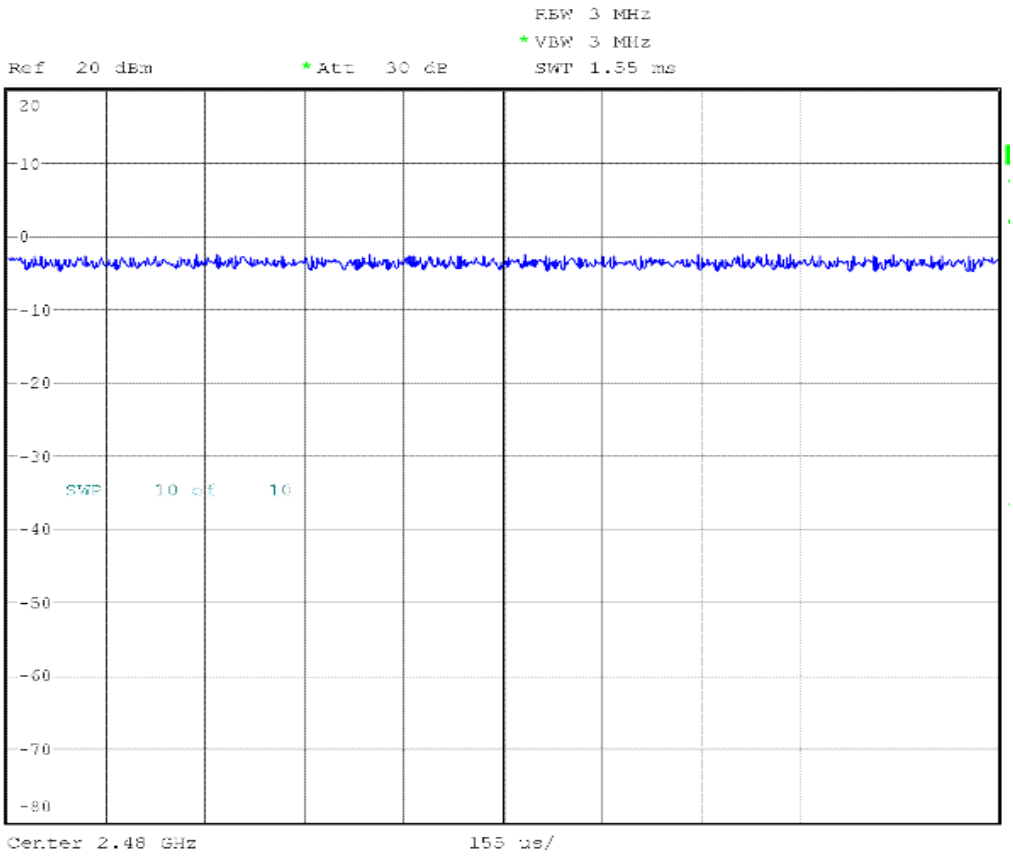
EDR Relative Transmit Power GFSK Mid Min (2DH5)



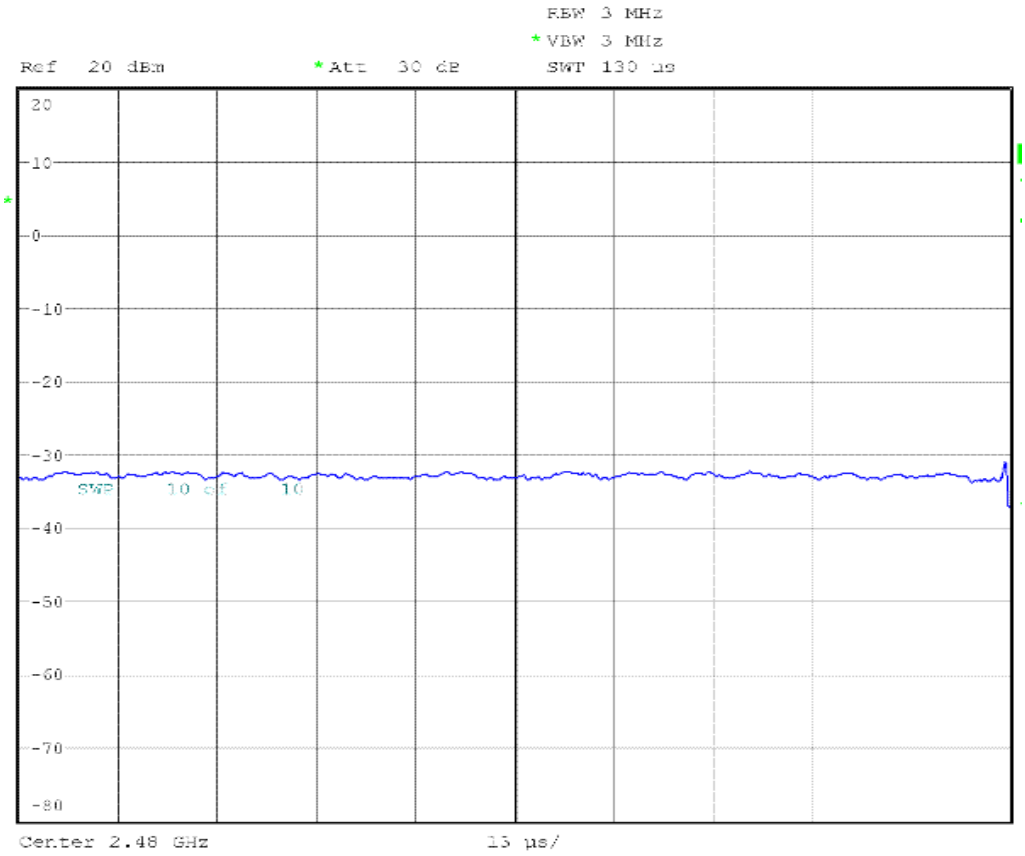
EDR Relative Transmit Power DPSK Mid Min (2DH5)



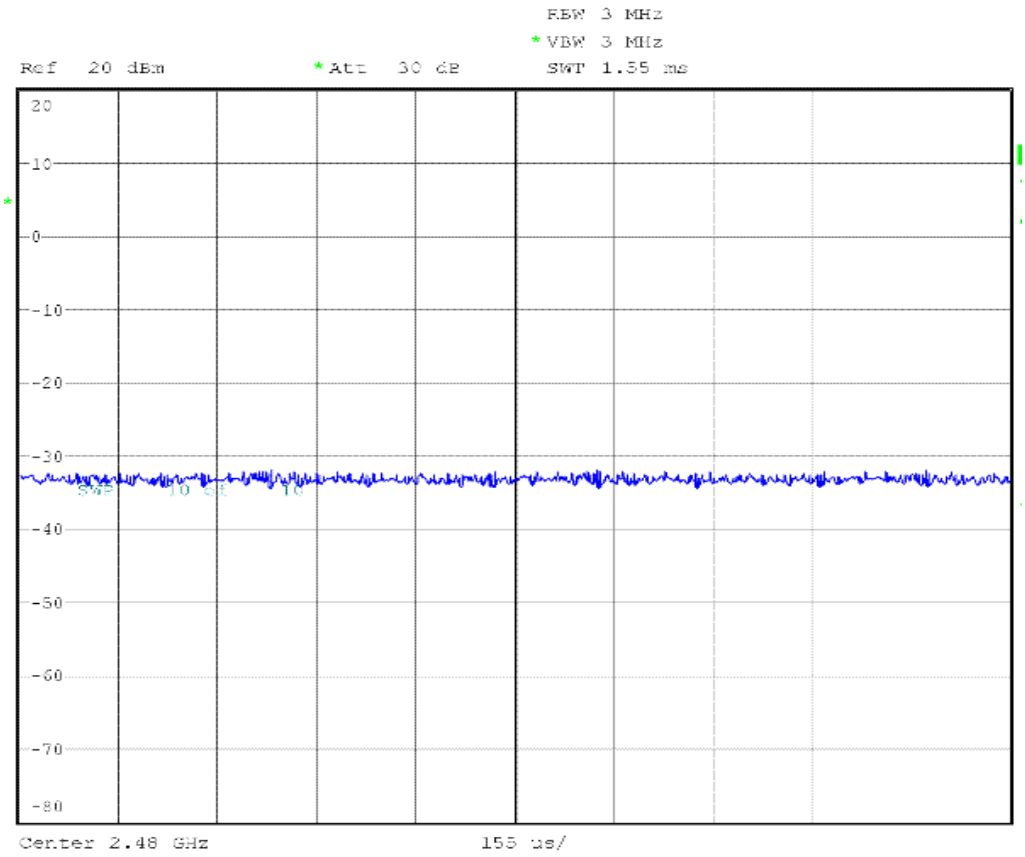
EDR Relative Transmit Power GFSK High Max (2DH5)



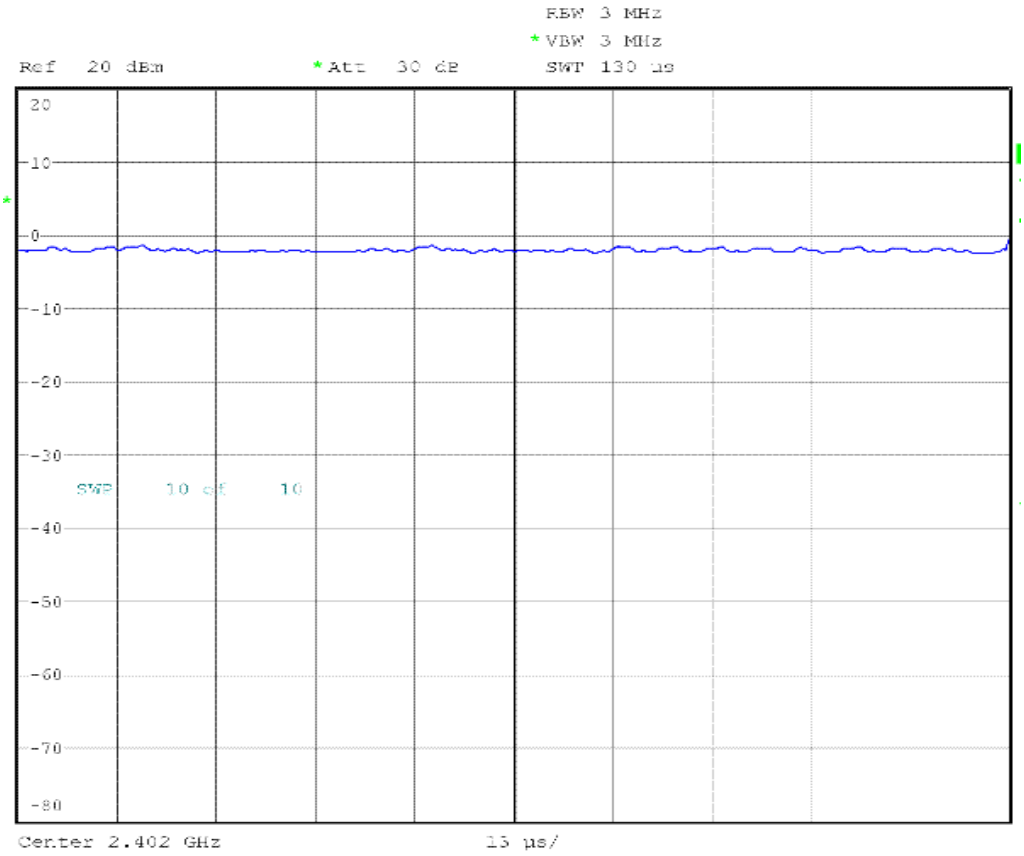
EDR Relative Transmit Power DPSK High Max (2DH5)



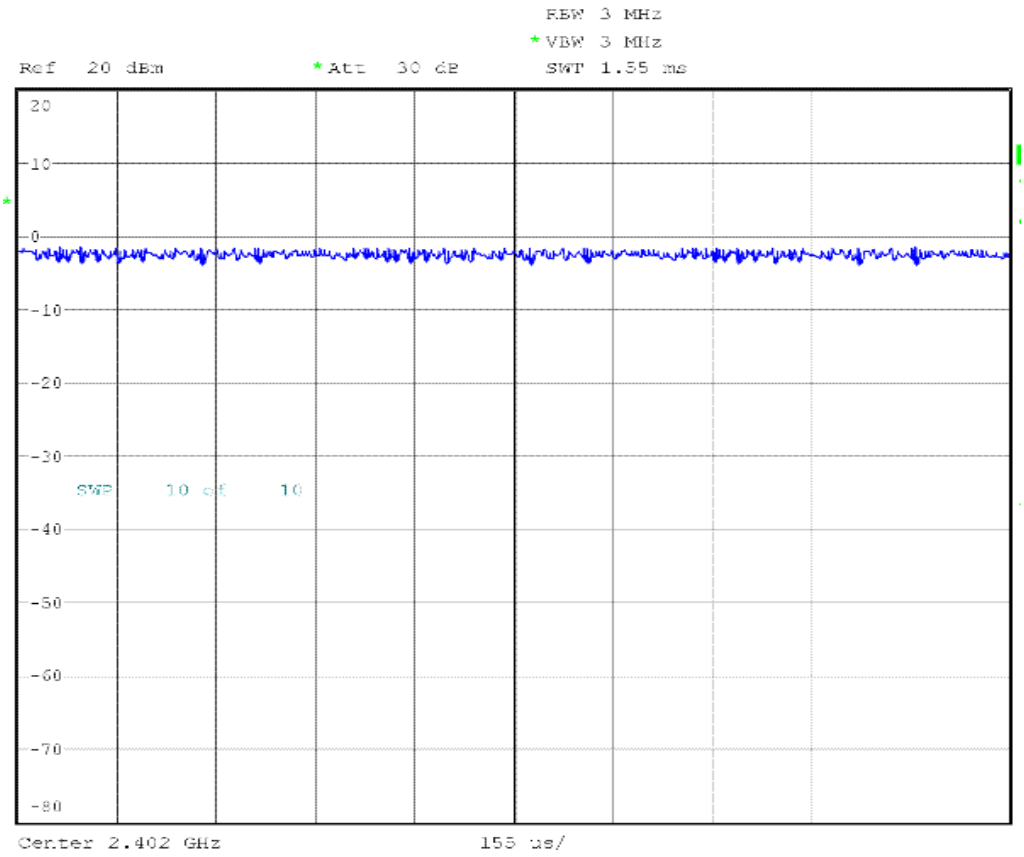
EDR Relative Transmit Power GFSK High Min (2DH5)



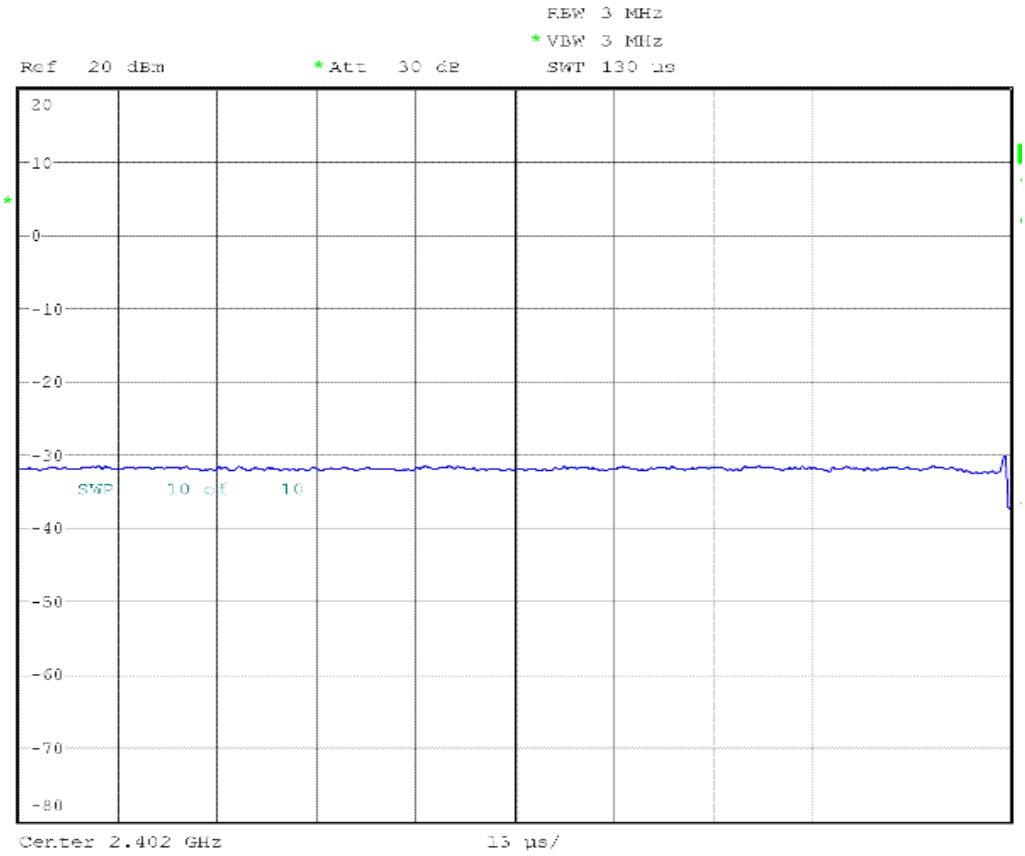
EDR Relative Transmit Power DPSK High Min (2DH5)



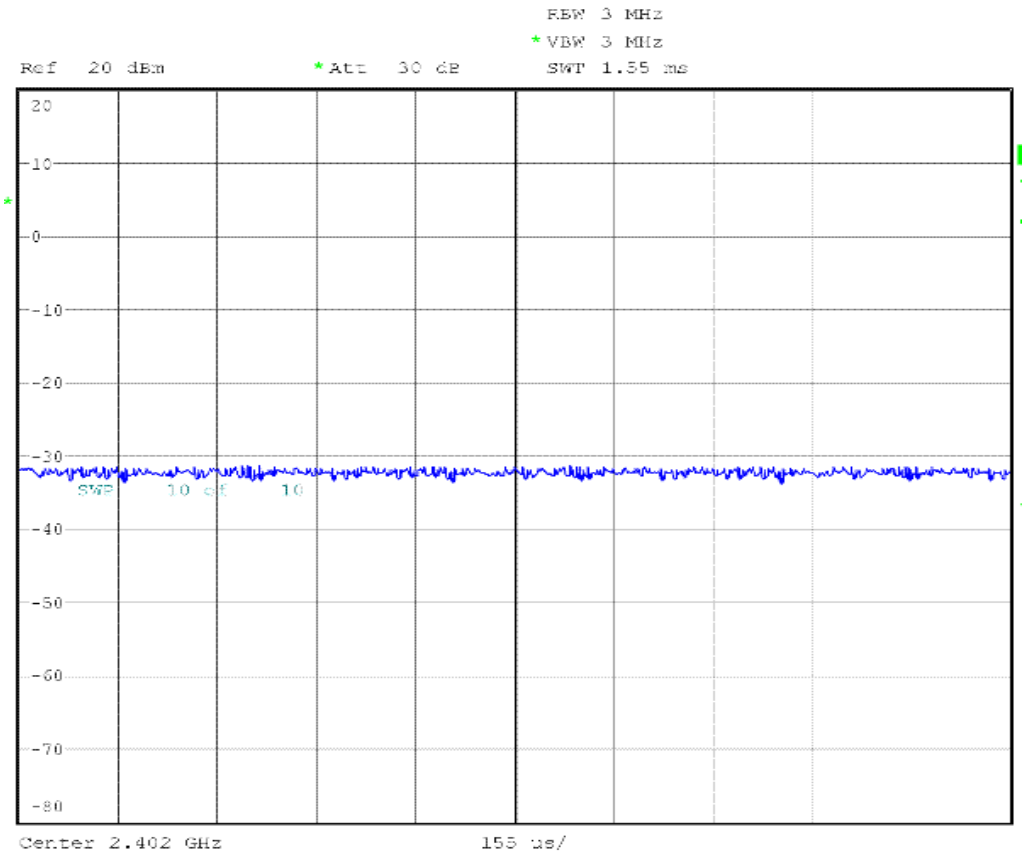
EDR Relative Transmit Power GFSK Low Max (3DH5)



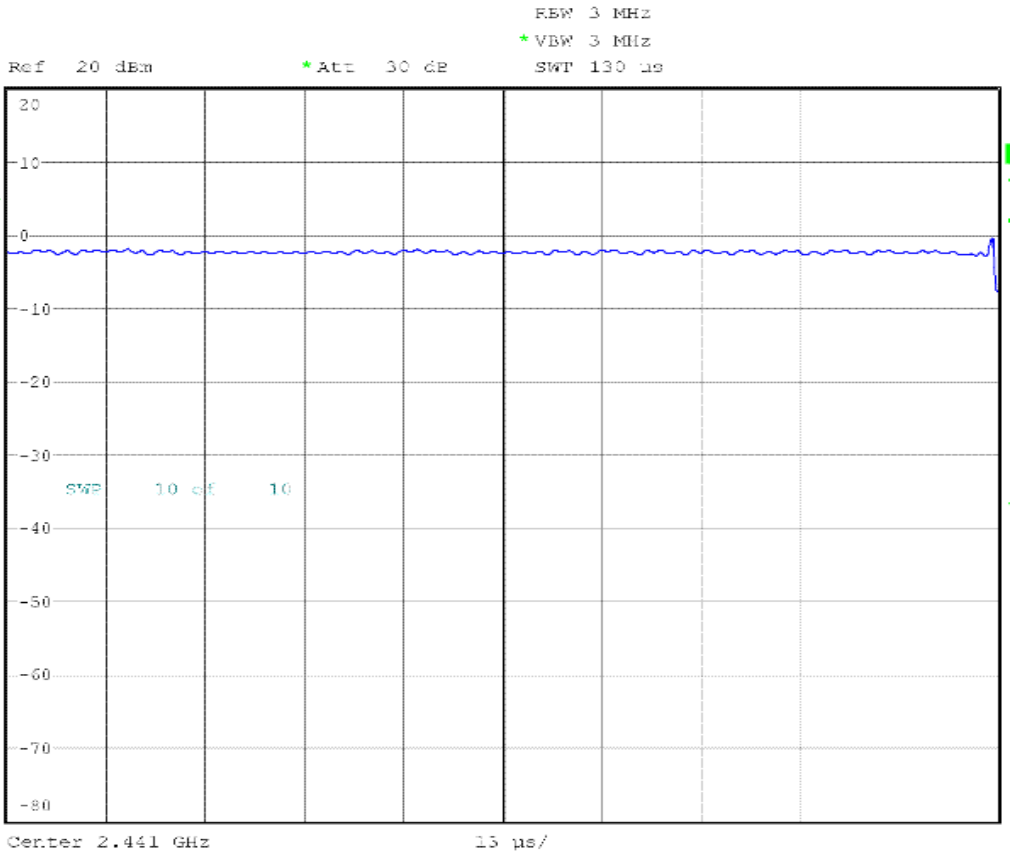
EDR Relative Transmit Power DPSK Low Max (3DH5)



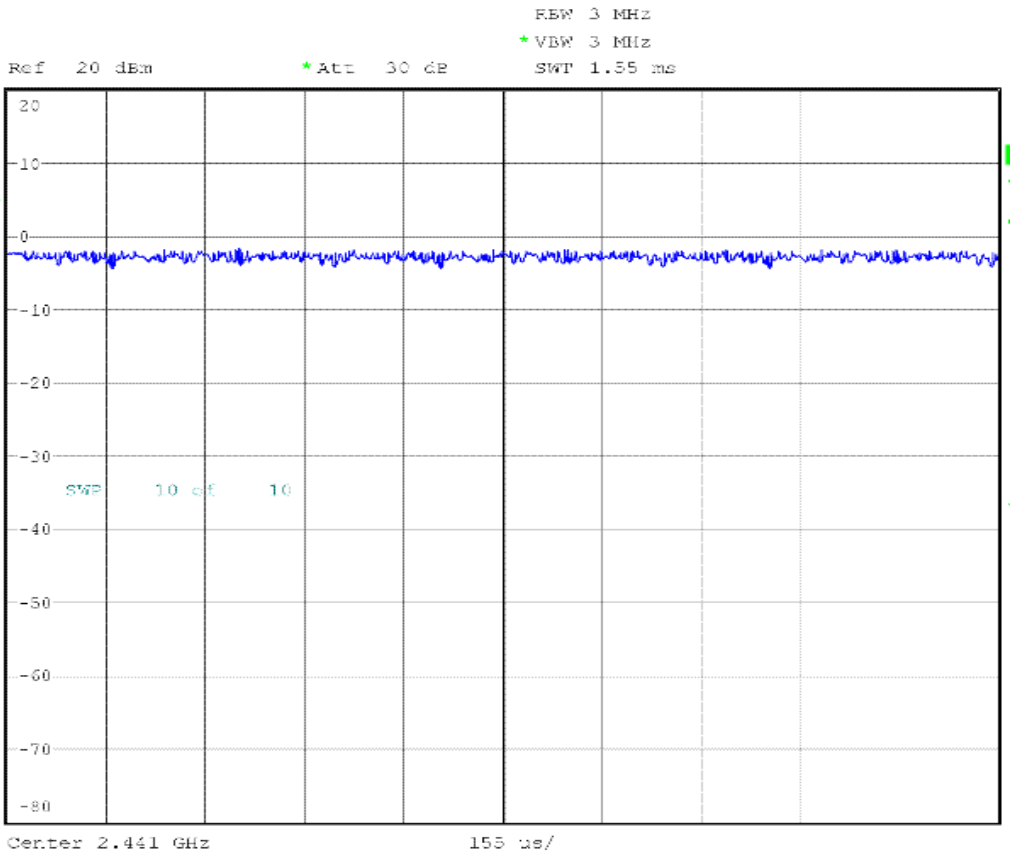
EDR Relative Transmit Power GFSK Low Min (3DH5)



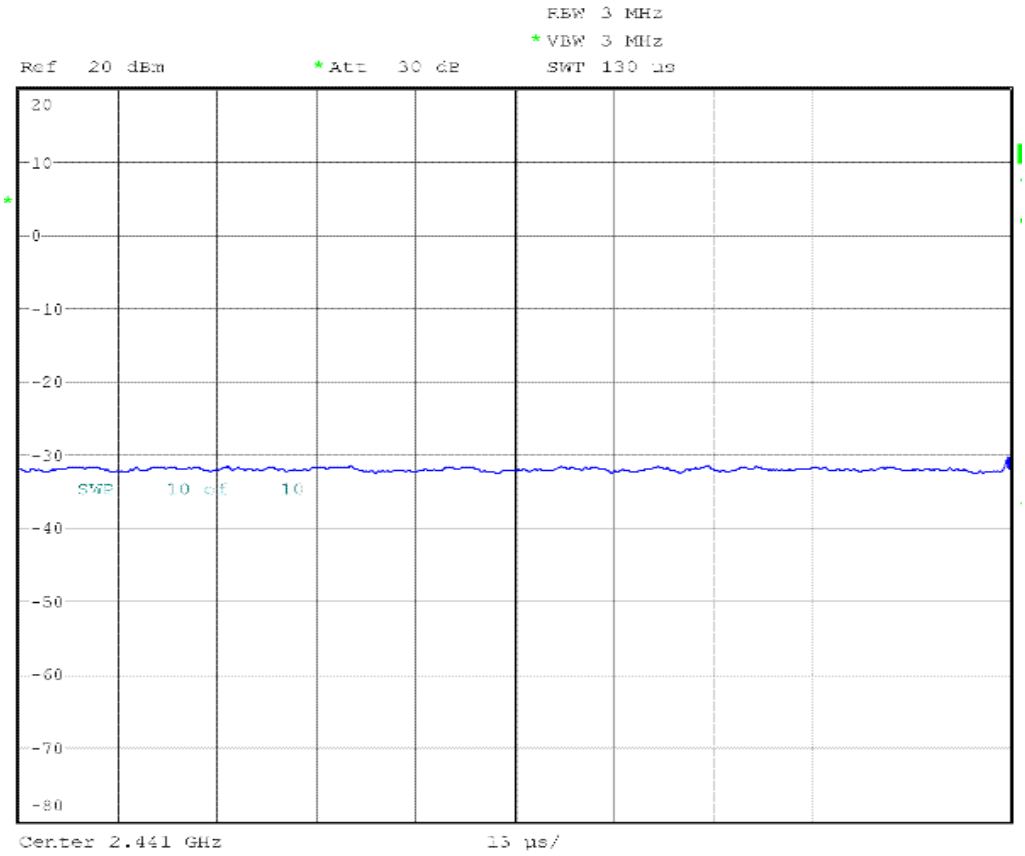
EDR Relative Transmit Power DPSK Low Min (3DH5)



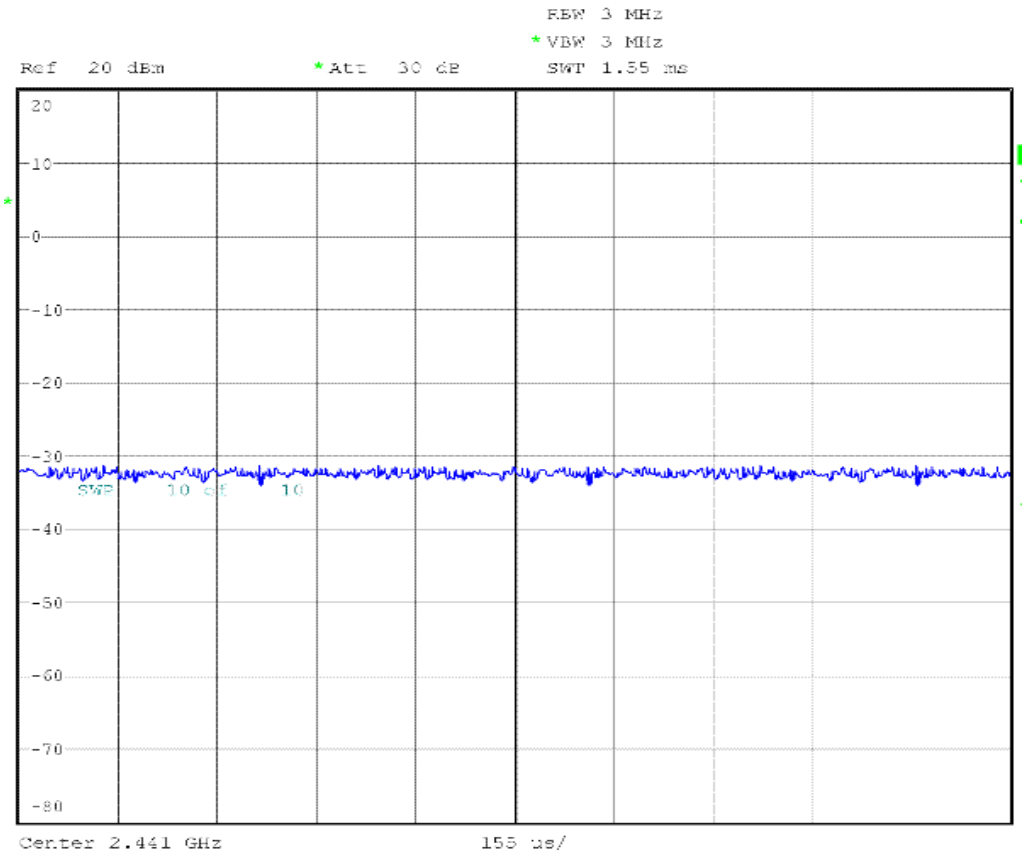
EDR Relative Transmit Power GFSK Mid Max (3DH5)



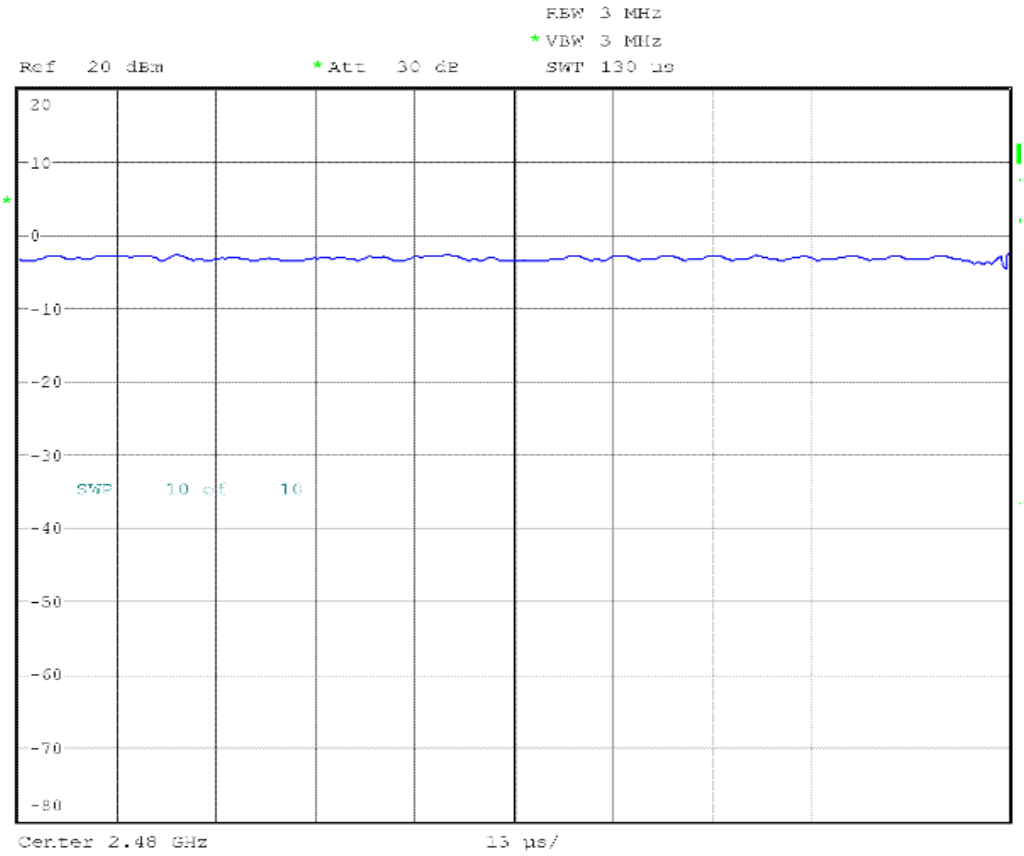
EDR Relative Transmit Power DPSK Mid Max (3DH5)



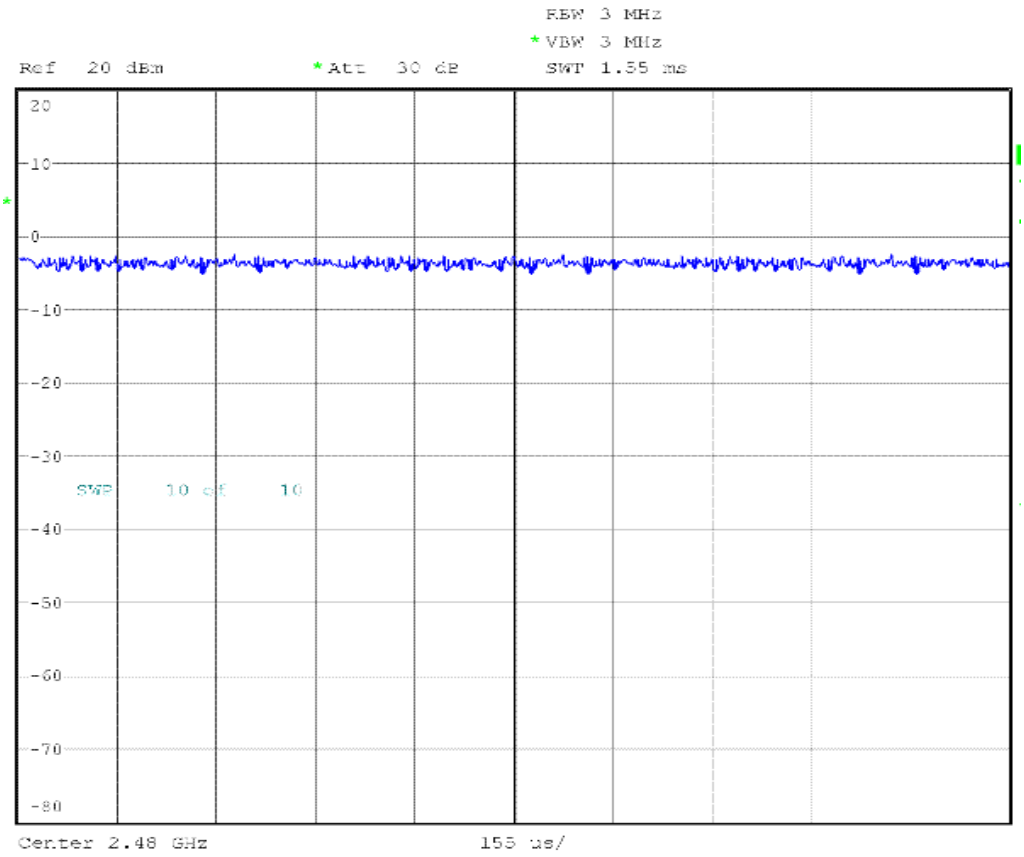
EDR Relative Transmit Power GFSK Mid Min (3DH5)



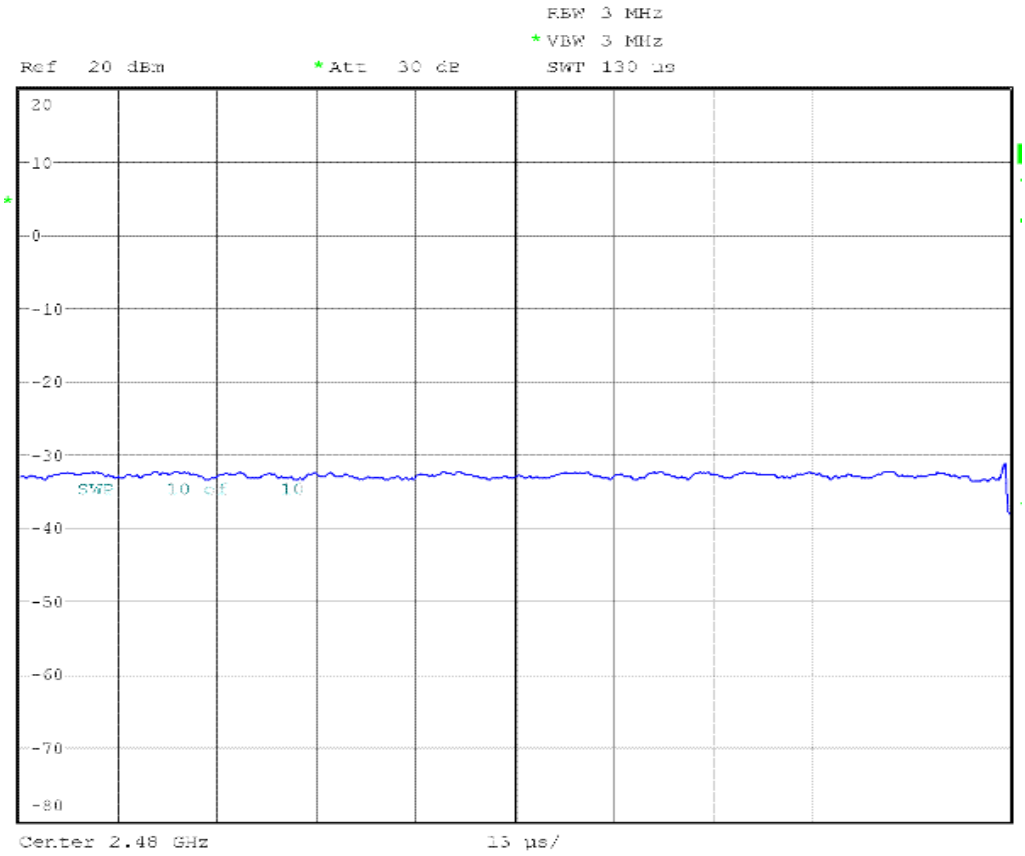
EDR Relative Transmit Power DPSK Mid Min (3DH5)



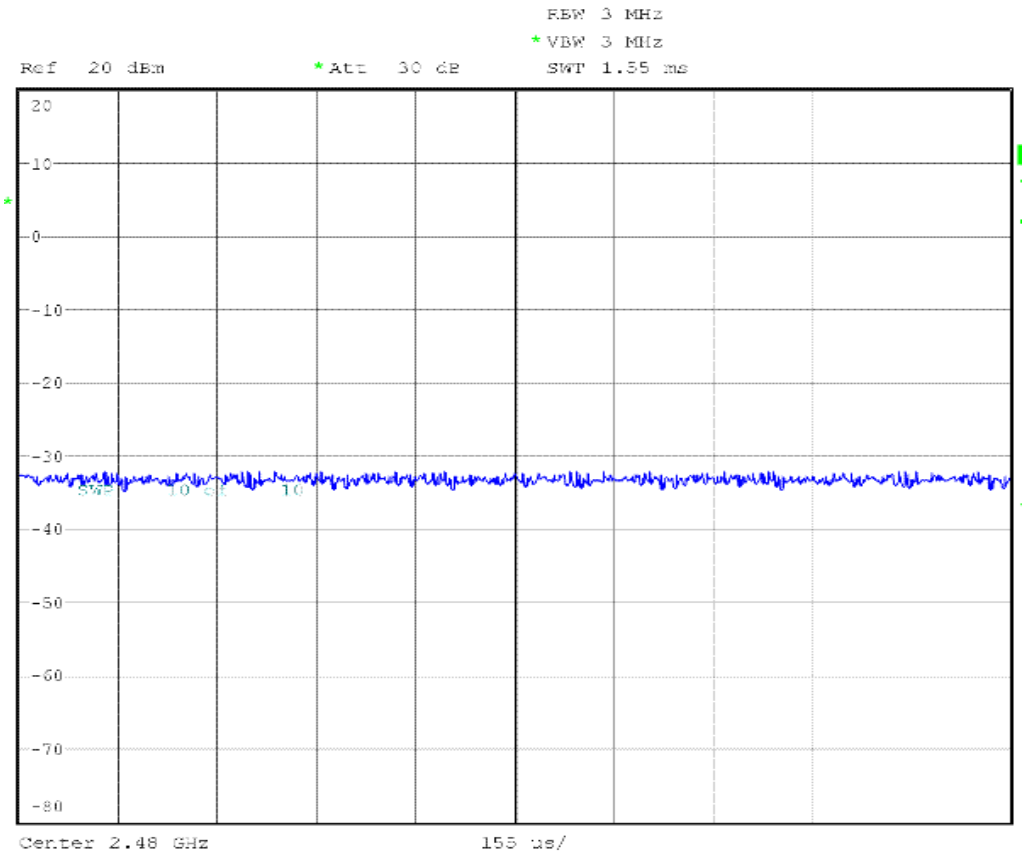
EDR Relative Transmit Power GFSK High Max (3DH5)



EDR Relative Transmit Power DPSK High Max (3DH5)



EDR Relative Transmit Power GFSK High Min (3DH5)



EDR Relative Transmit Power DPSK High Min (3DH5)

3.4.11. Test Case: TRM/CA/11/C - EDR Carrier Frequency Stability and Modulation Accuracy

Expected Outcome:

If the EUT does not support 8DPSK modulation then the outcomes based on this modulation do not apply..

All values as measured must fulfill the following conditions:

1. Carrier frequency stability:

   -75 kHz ≤ ωi ≤ +75 kHz, for all packets

   -75 kHz ≤ (ωi + ω0) ≤ +75 kHz, for all blocks

   -10 kHz ≤ ω0 ≤ +10 kHz, for all blocks

2. RMS DEVM:

   RMS DEVM ≤ 0.20, for all π/4-DQPSK blocks

   RMS DEVM ≤ 0.13, for all 8DPSK blocks

3. Peak DEVM:

   DEVM ≤ 0.35 for all π/4-DQPSK symbols

   DEVM ≤ 0.25 for all 8DPSK symbols

4. 99% DEVM:

   DEVM ≤ 0.30, for 99% of π/4-DQPSK symbols

   DEVM ≤ 0.20, for 99% of 8DPSK symbols

Packet Type:2DH5

Test Frequency	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.13	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Mid operating Frequency (2441MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.13	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
High operating Frequency (2480MHz)	ω i (kHz)	0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass

	RMS DEVM	0.11	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.20	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Packet Type: 3DH5				
Test Frequency	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.06	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.13	DEVM ≤ 0.25	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Mid operating Frequency (2441MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.14	DEVM ≤ 0.25	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
High operating Frequency (2480MHz)	ω i (kHz)	0.01	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.01	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.10	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.22	DEVM ≤ 0.25	Pass
	DEVM for 99%	99.86 %	Error symbols > 99 %	Pass

3.4.12. Test Case: TRM/CA/13/C - EDR In-Band Spurious Emissions

Expected Outcome:

All values as measured must fulfill the following conditions:

1. PTx-26dB (f) ≤ PTxref -26 dB for |M-N|= 1
2. PTx (f) ≤ – 20 dBm for |M-N| = 2
3. PTx (f) ≤ – 40 dBm for |M-N| ≥ 3.

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency that is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

Packet Type: 2DH5				
Test Frequency (MHz)	Measurement Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
2405	2402	-45.24	≤-40	Pass
2405	2403	-35.84	≤-20	Pass

2405	2404	-33.62	≤ 7.13 -26	Pass
2405	2405	7.13	N/A	N/A
2405	2406	-32.37	≤ 7.13 -26	Pass
2405	2407	-34.95	≤-20	Pass
2405	2408	-44.32	≤-40	Pass
2405	2409	-47.52	≤-40	Pass
2405	2410	-48.47	≤-40	Pass
2405	2411	-48.12	≤-40	Pass
2405	2412	-47.85	≤-40	Pass
2405	2413	-47.48	≤-40	Pass
2405	2414	-47.26	≤-40	Pass
2405	2415	-47.63	≤-40	Pass
2405	2416	-46.83	≤-40	Pass
2405	2417	-46.56	≤-40	Pass
2405	2418	-46.56	≤-40	Pass
2405	2419	-47.27	≤-40	Pass
2405	2420	-47.14	≤-40	Pass
2405	2421	-47.12	≤-40	Pass
2405	2422	-47.19	≤-40	Pass
2405	2423	-47.21	≤-40	Pass
2405	2424	-47.34	≤-40	Pass
2405	2425	-47.83	≤-40	Pass
2405	2426	-47.96	≤-40	Pass
2405	2427	-48.26	≤-40	Pass
2405	2428	-48.36	≤-40	Pass
2405	2429	-48.71	≤-40	Pass
2405	2430	-48.71	≤-40	Pass
2405	2431	-48.75	≤-40	Pass
2405	2432	-49.35	≤-40	Pass
2405	2433	-49.63	≤-40	Pass
2405	2434	-49.72	≤-40	Pass
2405	2435	-50.29	≤-40	Pass
2405	2436	-50.5	≤-40	Pass
2405	2437	-50.42	≤-40	Pass
2405	2438	-50.93	≤-40	Pass
2405	2439	-51.14	≤-40	Pass
2405	2440	-51.34	≤-40	Pass
2405	2441	-51.85	≤-40	Pass

2405	2442	-52.31	≤-40	Pass
2405	2443	-52.98	≤-40	Pass
2405	2444	-52.68	≤-40	Pass
2405	2445	-52.91	≤-40	Pass
2405	2446	-53.5	≤-40	Pass
2405	2447	-54	≤-40	Pass
2405	2448	-54.13	≤-40	Pass
2405	2449	-54.47	≤-40	Pass
2405	2450	-54.56	≤-40	Pass
2405	2451	-55.13	≤-40	Pass
2405	2452	-54.81	≤-40	Pass
2405	2453	-55.26	≤-40	Pass
2405	2454	-55.77	≤-40	Pass
2405	2455	-56.03	≤-40	Pass
2405	2456	-55.94	≤-40	Pass
2405	2457	-53.67	≤-40	Pass
2405	2458	-56.44	≤-40	Pass
2405	2459	-56.6	≤-40	Pass
2405	2460	-56.38	≤-40	Pass
2405	2461	-56.9	≤-40	Pass
2405	2462	-56.58	≤-40	Pass
2405	2463	-57.09	≤-40	Pass
2405	2464	-57.34	≤-40	Pass
2405	2465	-56.96	≤-40	Pass
2405	2466	-57.32	≤-40	Pass
2405	2467	-57.08	≤-40	Pass
2405	2468	-57.3	≤-40	Pass
2405	2469	-57.15	≤-40	Pass
2405	2470	-57.1	≤-40	Pass
2405	2471	-57.22	≤-40	Pass
2405	2472	-57.15	≤-40	Pass
2405	2473	-57.25	≤-40	Pass
2405	2474	-56.97	≤-40	Pass
2405	2475	-57.45	≤-40	Pass
2405	2476	-57.06	≤-40	Pass
2405	2477	-57.27	≤-40	Pass
2405	2478	-56.84	≤-40	Pass
2405	2479	-56.88	≤-40	Pass

2405	2480	-56.96	≤-40	Pass
2441	2402	-52.5	≤-40	Pass
2441	2403	-52.16	≤-40	Pass
2441	2404	-51.58	≤-40	Pass
2441	2405	-51.61	≤-40	Pass
2441	2406	-50.96	≤-40	Pass
2441	2407	-50.97	≤-40	Pass
2441	2408	-50.83	≤-40	Pass
2441	2409	-50.29	≤-40	Pass
2441	2410	-49.84	≤-40	Pass
2441	2411	-49.52	≤-40	Pass
2441	2412	-49.51	≤-40	Pass
2441	2413	-49.02	≤-40	Pass
2441	2414	-48.88	≤-40	Pass
2441	2415	-48.72	≤-40	Pass
2441	2416	-48.7	≤-40	Pass
2441	2417	-48.3	≤-40	Pass
2441	2418	-48.07	≤-40	Pass
2441	2419	-47.72	≤-40	Pass
2441	2420	-47.57	≤-40	Pass
2441	2421	-47.72	≤-40	Pass
2441	2422	-47.39	≤-40	Pass
2441	2423	-47.2	≤-40	Pass
2441	2424	-47.63	≤-40	Pass
2441	2425	-47.31	≤-40	Pass
2441	2426	-47.36	≤-40	Pass
2441	2427	-46.88	≤-40	Pass
2441	2428	-46.97	≤-40	Pass
2441	2429	-46.96	≤-40	Pass
2441	2430	-46.98	≤-40	Pass
2441	2431	-47.06	≤-40	Pass
2441	2432	-47.17	≤-40	Pass
2441	2433	-48.09	≤-40	Pass
2441	2434	-47.92	≤-40	Pass
2441	2435	-48.62	≤-40	Pass
2441	2436	-47.9	≤-40	Pass
2441	2437	-47.63	≤-40	Pass
2441	2438	-45.14	≤-40	Pass

2441	2439	-36.64	≤-20	Pass
2441	2440	-35.46	≤ 6.7 -26	Pass
2441	2441	6.7	N/A	N/A
2441	2442	-34.48	≤ 6.7 -26	Pass
2441	2443	-34.18	≤-20	Pass
2441	2444	-44.88	≤-40	Pass
2441	2445	-47.68	≤-40	Pass
2441	2446	-47.92	≤-40	Pass
2441	2447	-48.04	≤-40	Pass
2441	2448	-48.06	≤-40	Pass
2441	2449	-47.79	≤-40	Pass
2441	2450	-47.57	≤-40	Pass
2441	2451	-47.56	≤-40	Pass
2441	2452	-47.29	≤-40	Pass
2441	2453	-47.02	≤-40	Pass
2441	2454	-47.33	≤-40	Pass
2441	2455	-47.29	≤-40	Pass
2441	2456	-46.98	≤-40	Pass
2441	2457	-47.9	≤-40	Pass
2441	2458	-47.64	≤-40	Pass
2441	2459	-47.94	≤-40	Pass
2441	2460	-47.9	≤-40	Pass
2441	2461	-48.07	≤-40	Pass
2441	2462	-48.07	≤-40	Pass
2441	2463	-48.44	≤-40	Pass
2441	2464	-49.03	≤-40	Pass
2441	2465	-48.84	≤-40	Pass
2441	2466	-48.99	≤-40	Pass
2441	2467	-49.47	≤-40	Pass
2441	2468	-49.34	≤-40	Pass
2441	2469	-50.23	≤-40	Pass
2441	2470	-49.89	≤-40	Pass
2441	2471	-50.43	≤-40	Pass
2441	2472	-50.62	≤-40	Pass
2441	2473	-51.14	≤-40	Pass
2441	2474	-51.49	≤-40	Pass
2441	2475	-51.57	≤-40	Pass
2441	2476	-52.05	≤-40	Pass

2441	2477	-51.74	≤-40	Pass
2441	2478	-52.58	≤-40	Pass
2441	2479	-53.01	≤-40	Pass
2441	2480	-53.23	≤-40	Pass
2477	2402	-57.58	≤-40	Pass
2477	2403	-57.57	≤-40	Pass
2477	2404	-57.47	≤-40	Pass
2477	2405	-57.55	≤-40	Pass
2477	2406	-57.29	≤-40	Pass
2477	2407	-57.55	≤-40	Pass
2477	2408	-57.6	≤-40	Pass
2477	2409	-57.79	≤-40	Pass
2477	2410	-57.31	≤-40	Pass
2477	2411	-57.35	≤-40	Pass
2477	2412	-57.57	≤-40	Pass
2477	2413	-57.12	≤-40	Pass
2477	2414	-57.39	≤-40	Pass
2477	2415	-57.37	≤-40	Pass
2477	2416	-57.24	≤-40	Pass
2477	2417	-56.85	≤-40	Pass
2477	2418	-57.48	≤-40	Pass
2477	2419	-57.16	≤-40	Pass
2477	2420	-57.41	≤-40	Pass
2477	2421	-56.86	≤-40	Pass
2477	2422	-56.65	≤-40	Pass
2477	2423	-56.21	≤-40	Pass
2477	2424	-56.24	≤-40	Pass
2477	2425	-55.8	≤-40	Pass
2477	2426	-55.89	≤-40	Pass
2477	2427	-55.71	≤-40	Pass
2477	2428	-55.49	≤-40	Pass
2477	2429	-55.18	≤-40	Pass
2477	2430	-55.29	≤-40	Pass
2477	2431	-55.12	≤-40	Pass
2477	2432	-54.63	≤-40	Pass
2477	2433	-54.44	≤-40	Pass
2477	2434	-53.7	≤-40	Pass
2477	2435	-53.72	≤-40	Pass

2477	2436	-53.3	≤-40	Pass
2477	2437	-52.93	≤-40	Pass
2477	2438	-52.77	≤-40	Pass
2477	2439	-52.5	≤-40	Pass
2477	2440	-52.24	≤-40	Pass
2477	2441	-52.17	≤-40	Pass
2477	2442	-51.17	≤-40	Pass
2477	2443	-51	≤-40	Pass
2477	2444	-50.76	≤-40	Pass
2477	2445	-50.73	≤-40	Pass
2477	2446	-50.43	≤-40	Pass
2477	2447	-50.04	≤-40	Pass
2477	2448	-49.93	≤-40	Pass
2477	2449	-49.22	≤-40	Pass
2477	2450	-49.37	≤-40	Pass
2477	2451	-48.92	≤-40	Pass
2477	2452	-49.07	≤-40	Pass
2477	2453	-48.53	≤-40	Pass
2477	2454	-48.47	≤-40	Pass
2477	2455	-47.89	≤-40	Pass
2477	2456	-48.08	≤-40	Pass
2477	2457	-48.24	≤-40	Pass
2477	2458	-47.75	≤-40	Pass
2477	2459	-47.99	≤-40	Pass
2477	2460	-47.97	≤-40	Pass
2477	2461	-47.85	≤-40	Pass
2477	2462	-47.67	≤-40	Pass
2477	2463	-47.69	≤-40	Pass
2477	2464	-47.53	≤-40	Pass
2477	2465	-47.38	≤-40	Pass
2477	2466	-47.34	≤-40	Pass
2477	2467	-47.69	≤-40	Pass
2477	2468	-47.68	≤-40	Pass
2477	2469	-48.56	≤-40	Pass
2477	2470	-48.32	≤-40	Pass
2477	2471	-49.23	≤-40	Pass
2477	2472	-49.04	≤-40	Pass
2477	2473	-48.12	≤-40	Pass

2477	2474	-45.85	≤-40	Pass
2477	2475	-38.13	≤-20	Pass
2477	2476	-35	≤ 5.98 -26	Pass
2477	2477	5.98	N/A	N/A
2477	2478	-34.33	≤ 5.98 -26	Pass
2477	2479	-36.35	≤-20	Pass
2477	2480	-45.5	≤-40	Pass
Packet Type: 3DH5				
Test Frequency (MHz)	Measurement Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
2405	2402	-43.65	≤-40	Pass
2405	2403	-36.21	≤-20	Pass
2405	2404	-34.04	≤ 7.14 -26	Pass
2405	2405	7.14	N/A	N/A
2405	2406	-32.45	≤ 7.14 -26	Pass
2405	2407	-34.79	≤-20	Pass
2405	2408	-44.15	≤-40	Pass
2405	2409	-46.66	≤-40	Pass
2405	2410	-47.31	≤-40	Pass
2405	2411	-48.02	≤-40	Pass
2405	2412	-47.46	≤-40	Pass
2405	2413	-47.71	≤-40	Pass
2405	2414	-47.35	≤-40	Pass
2405	2415	-47.34	≤-40	Pass
2405	2416	-47.06	≤-40	Pass
2405	2417	-47.16	≤-40	Pass
2405	2418	-47.35	≤-40	Pass
2405	2419	-46.86	≤-40	Pass
2405	2420	-47.19	≤-40	Pass
2405	2421	-47.58	≤-40	Pass
2405	2422	-47.51	≤-40	Pass
2405	2423	-47.25	≤-40	Pass
2405	2424	-46.94	≤-40	Pass
2405	2425	-47.22	≤-40	Pass
2405	2426	-47.92	≤-40	Pass
2405	2427	-48.11	≤-40	Pass
2405	2428	-48.17	≤-40	Pass
2405	2429	-48.55	≤-40	Pass

2405	2430	-48.96	≤-40	Pass
2405	2431	-49.02	≤-40	Pass
2405	2432	-49.45	≤-40	Pass
2405	2433	-49.32	≤-40	Pass
2405	2434	-49.6	≤-40	Pass
2405	2435	-49.62	≤-40	Pass
2405	2436	-50.75	≤-40	Pass
2405	2437	-50.85	≤-40	Pass
2405	2438	-51.14	≤-40	Pass
2405	2439	-51.52	≤-40	Pass
2405	2440	-51.77	≤-40	Pass
2405	2441	-51.72	≤-40	Pass
2405	2442	-52.28	≤-40	Pass
2405	2443	-52.98	≤-40	Pass
2405	2444	-53.02	≤-40	Pass
2405	2445	-53.32	≤-40	Pass
2405	2446	-53.55	≤-40	Pass
2405	2447	-53.57	≤-40	Pass
2405	2448	-53.78	≤-40	Pass
2405	2449	-54.44	≤-40	Pass
2405	2450	-54.34	≤-40	Pass
2405	2451	-54.87	≤-40	Pass
2405	2452	-55.36	≤-40	Pass
2405	2453	-55.2	≤-40	Pass
2405	2454	-55.6	≤-40	Pass
2405	2455	-56.11	≤-40	Pass
2405	2456	-56.13	≤-40	Pass
2405	2457	-54.04	≤-40	Pass
2405	2458	-56.36	≤-40	Pass
2405	2459	-56.64	≤-40	Pass
2405	2460	-56.69	≤-40	Pass
2405	2461	-57.06	≤-40	Pass
2405	2462	-56.8	≤-40	Pass
2405	2463	-56.51	≤-40	Pass
2405	2464	-56.94	≤-40	Pass
2405	2465	-57.18	≤-40	Pass
2405	2466	-57.37	≤-40	Pass
2405	2467	-57.29	≤-40	Pass

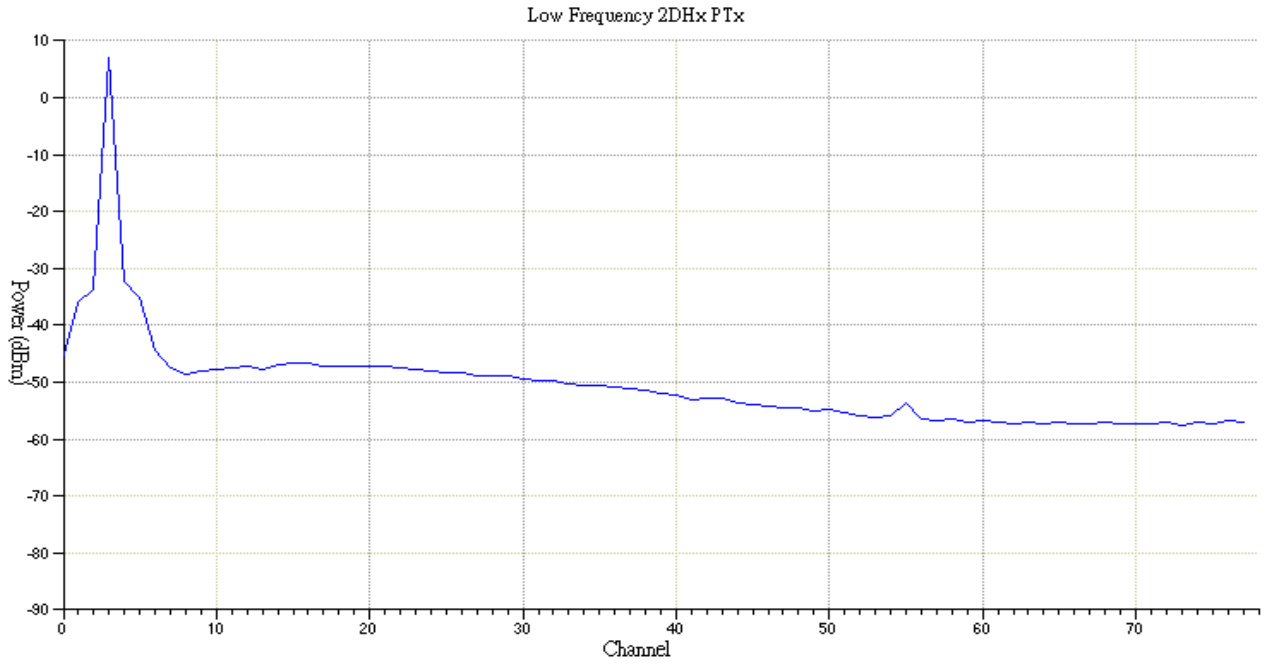
2405	2468	-57.11	≤-40	Pass
2405	2469	-56.99	≤-40	Pass
2405	2470	-57.14	≤-40	Pass
2405	2471	-57.44	≤-40	Pass
2405	2472	-57.04	≤-40	Pass
2405	2473	-57.07	≤-40	Pass
2405	2474	-57.12	≤-40	Pass
2405	2475	-56.88	≤-40	Pass
2405	2476	-56.99	≤-40	Pass
2405	2477	-57.18	≤-40	Pass
2405	2478	-57.09	≤-40	Pass
2405	2479	-56.87	≤-40	Pass
2405	2480	-57.23	≤-40	Pass
2441	2402	-52.04	≤-40	Pass
2441	2403	-51.86	≤-40	Pass
2441	2404	-51.75	≤-40	Pass
2441	2405	-51.29	≤-40	Pass
2441	2406	-50.91	≤-40	Pass
2441	2407	-50.61	≤-40	Pass
2441	2408	-50.38	≤-40	Pass
2441	2409	-50.33	≤-40	Pass
2441	2410	-49.91	≤-40	Pass
2441	2411	-49.69	≤-40	Pass
2441	2412	-49.61	≤-40	Pass
2441	2413	-48.95	≤-40	Pass
2441	2414	-48.94	≤-40	Pass
2441	2415	-49.21	≤-40	Pass
2441	2416	-48.34	≤-40	Pass
2441	2417	-48.23	≤-40	Pass
2441	2418	-48.04	≤-40	Pass
2441	2419	-47.35	≤-40	Pass
2441	2420	-47.43	≤-40	Pass
2441	2421	-47.72	≤-40	Pass
2441	2422	-47.54	≤-40	Pass
2441	2423	-47.36	≤-40	Pass
2441	2424	-47.18	≤-40	Pass
2441	2425	-47.2	≤-40	Pass
2441	2426	-47.13	≤-40	Pass

2441	2427	-47.13	≤-40	Pass
2441	2428	-47.08	≤-40	Pass
2441	2429	-46.76	≤-40	Pass
2441	2430	-47.05	≤-40	Pass
2441	2431	-47.02	≤-40	Pass
2441	2432	-47.25	≤-40	Pass
2441	2433	-47.92	≤-40	Pass
2441	2434	-47.92	≤-40	Pass
2441	2435	-48.04	≤-40	Pass
2441	2436	-47.48	≤-40	Pass
2441	2437	-46.62	≤-40	Pass
2441	2438	-43.69	≤-40	Pass
2441	2439	-36.48	≤-20	Pass
2441	2440	-36.4	≤ 6.87 -26	Pass
2441	2441	6.87	N/A	N/A
2441	2442	-34.75	≤ 6.87 -26	Pass
2441	2443	-34.51	≤-20	Pass
2441	2444	-44.53	≤-40	Pass
2441	2445	-46.48	≤-40	Pass
2441	2446	-46.94	≤-40	Pass
2441	2447	-47.82	≤-40	Pass
2441	2448	-48.01	≤-40	Pass
2441	2449	-47.79	≤-40	Pass
2441	2450	-47.75	≤-40	Pass
2441	2451	-47.64	≤-40	Pass
2441	2452	-47.32	≤-40	Pass
2441	2453	-47.06	≤-40	Pass
2441	2454	-47.4	≤-40	Pass
2441	2455	-47.35	≤-40	Pass
2441	2456	-47.41	≤-40	Pass
2441	2457	-47.57	≤-40	Pass
2441	2458	-47.61	≤-40	Pass
2441	2459	-47.84	≤-40	Pass
2441	2460	-47.38	≤-40	Pass
2441	2461	-48.52	≤-40	Pass
2441	2462	-48.17	≤-40	Pass
2441	2463	-48.17	≤-40	Pass
2441	2464	-48.82	≤-40	Pass

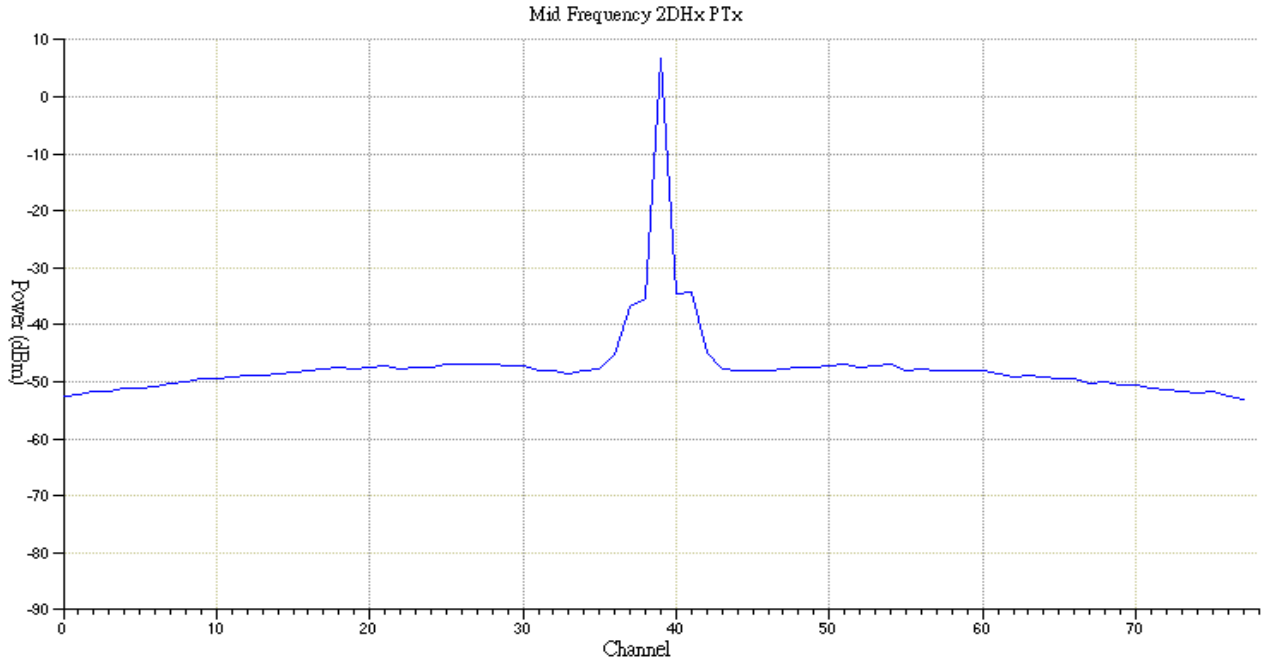
2441	2465	-49.02	≤-40	Pass
2441	2466	-49.09	≤-40	Pass
2441	2467	-49.27	≤-40	Pass
2441	2468	-49.45	≤-40	Pass
2441	2469	-49.46	≤-40	Pass
2441	2470	-50.17	≤-40	Pass
2441	2471	-50.47	≤-40	Pass
2441	2472	-50.69	≤-40	Pass
2441	2473	-51.09	≤-40	Pass
2441	2474	-51.62	≤-40	Pass
2441	2475	-51.72	≤-40	Pass
2441	2476	-51.96	≤-40	Pass
2441	2477	-52.36	≤-40	Pass
2441	2478	-52.31	≤-40	Pass
2441	2479	-52.87	≤-40	Pass
2441	2480	-53.18	≤-40	Pass
2477	2402	-57.54	≤-40	Pass
2477	2403	-57.38	≤-40	Pass
2477	2404	-57.63	≤-40	Pass
2477	2405	-57.5	≤-40	Pass
2477	2406	-57.54	≤-40	Pass
2477	2407	-57.88	≤-40	Pass
2477	2408	-57.43	≤-40	Pass
2477	2409	-57.57	≤-40	Pass
2477	2410	-57.5	≤-40	Pass
2477	2411	-57.35	≤-40	Pass
2477	2412	-57.31	≤-40	Pass
2477	2413	-57.31	≤-40	Pass
2477	2414	-57.1	≤-40	Pass
2477	2415	-57.17	≤-40	Pass
2477	2416	-57.3	≤-40	Pass
2477	2417	-57.44	≤-40	Pass
2477	2418	-56.99	≤-40	Pass
2477	2419	-57.07	≤-40	Pass
2477	2420	-56.67	≤-40	Pass
2477	2421	-56.65	≤-40	Pass
2477	2422	-56.84	≤-40	Pass
2477	2423	-56.71	≤-40	Pass

2477	2424	-56.27	≤-40	Pass
2477	2425	-55.65	≤-40	Pass
2477	2426	-56.19	≤-40	Pass
2477	2427	-55.87	≤-40	Pass
2477	2428	-55.62	≤-40	Pass
2477	2429	-55.22	≤-40	Pass
2477	2430	-55.35	≤-40	Pass
2477	2431	-54.94	≤-40	Pass
2477	2432	-54.64	≤-40	Pass
2477	2433	-54.03	≤-40	Pass
2477	2434	-53.8	≤-40	Pass
2477	2435	-53.8	≤-40	Pass
2477	2436	-53.44	≤-40	Pass
2477	2437	-52.81	≤-40	Pass
2477	2438	-52.5	≤-40	Pass
2477	2439	-52.55	≤-40	Pass
2477	2440	-52.28	≤-40	Pass
2477	2441	-51.99	≤-40	Pass
2477	2442	-51.26	≤-40	Pass
2477	2443	-51.17	≤-40	Pass
2477	2444	-51.17	≤-40	Pass
2477	2445	-50.61	≤-40	Pass
2477	2446	-50.21	≤-40	Pass
2477	2447	-49.95	≤-40	Pass
2477	2448	-49.65	≤-40	Pass
2477	2449	-49.7	≤-40	Pass
2477	2450	-49.17	≤-40	Pass
2477	2451	-49.09	≤-40	Pass
2477	2452	-49.01	≤-40	Pass
2477	2453	-48.76	≤-40	Pass
2477	2454	-48.34	≤-40	Pass
2477	2455	-47.95	≤-40	Pass
2477	2456	-47.74	≤-40	Pass
2477	2457	-48.05	≤-40	Pass
2477	2458	-47.99	≤-40	Pass
2477	2459	-47.68	≤-40	Pass
2477	2460	-47.63	≤-40	Pass
2477	2461	-47.69	≤-40	Pass

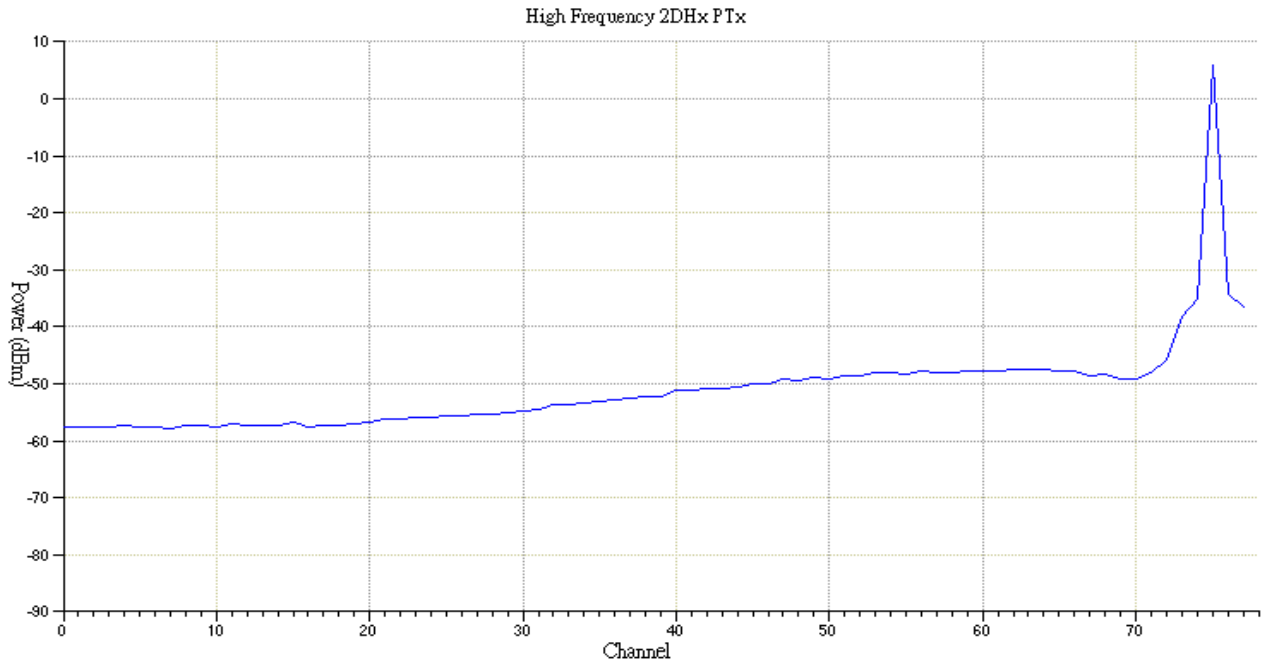
2477	2462	-47.5	≤-40	Pass
2477	2463	-47.53	≤-40	Pass
2477	2464	-47.53	≤-40	Pass
2477	2465	-47.36	≤-40	Pass
2477	2466	-47.4	≤-40	Pass
2477	2467	-47.58	≤-40	Pass
2477	2468	-47.69	≤-40	Pass
2477	2469	-48.08	≤-40	Pass
2477	2470	-48.23	≤-40	Pass
2477	2471	-48.43	≤-40	Pass
2477	2472	-48.58	≤-40	Pass
2477	2473	-47.42	≤-40	Pass
2477	2474	-44.67	≤-40	Pass
2477	2475	-38.71	≤-20	Pass
2477	2476	-36.64	≤ 6.24 -26	Pass
2477	2477	6.24	N/A	N/A
2477	2478	-34.92	≤ 6.24 -26	Pass
2477	2479	-36.1	≤-20	Pass
2477	2480	-44.77	≤-40	Pass



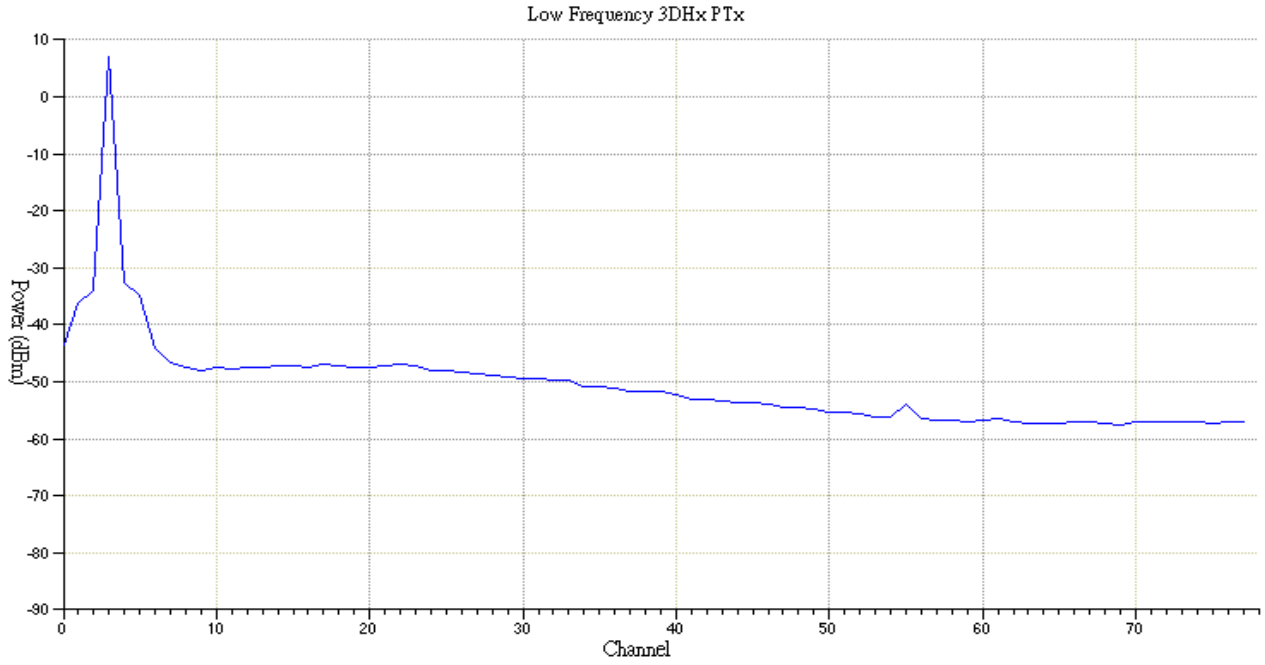
EDR In Band Spurious Emissions - 2DH5 Low



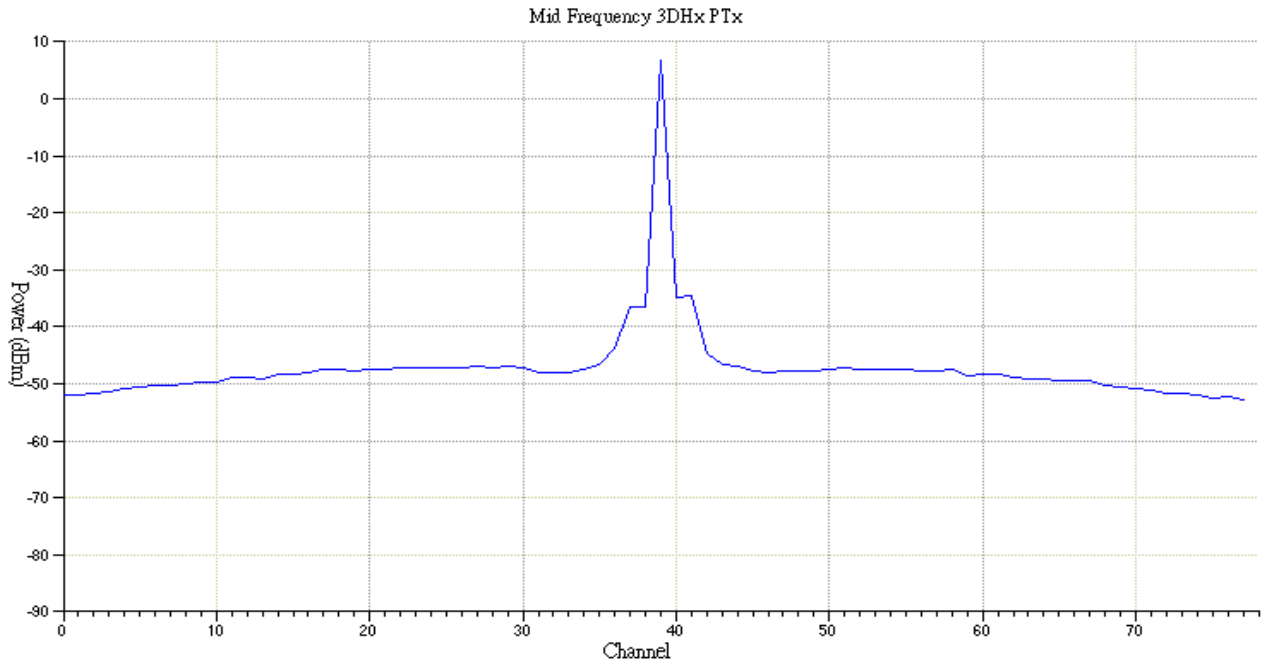
EDR In Band Spurious Emissions - 2DH5 Mid



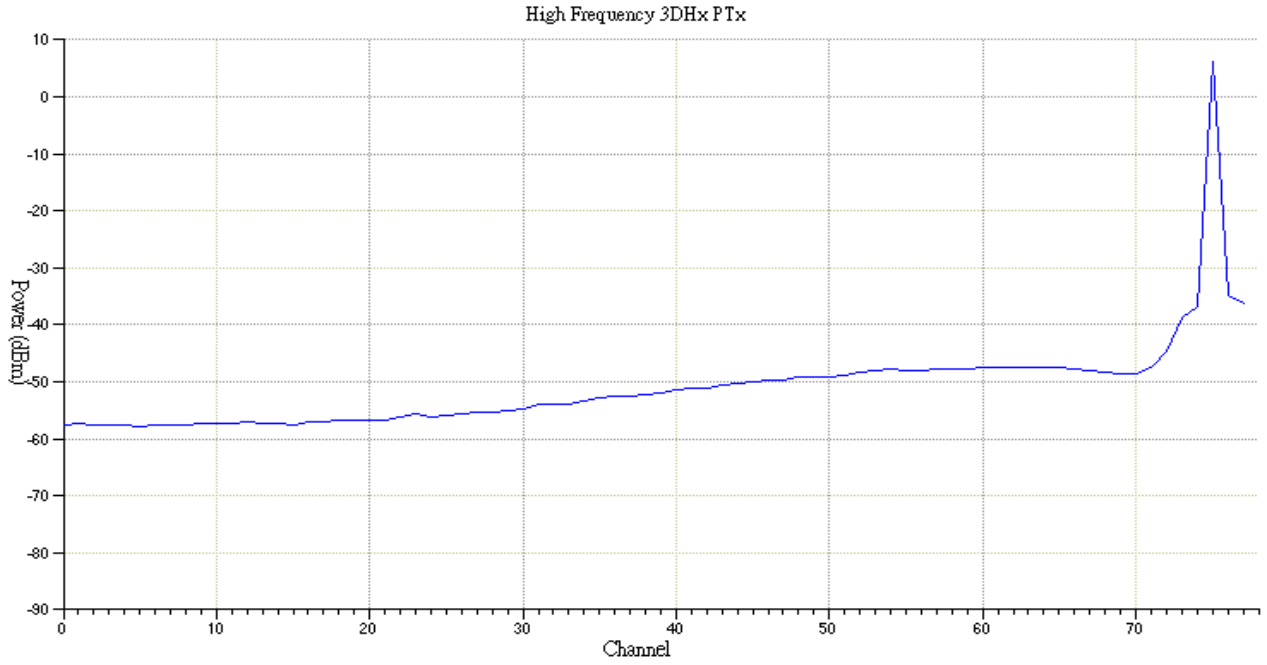
EDR In Band Spurious Emissions - 2DH5 High



EDR_In_Band_Spurious_Emissions - 3DH5 Low



EDR In Band Spurious Emissions - 3DH5 Mid



EDR In Band Spurious Emissions - 3DH5 High

3.4.13. Test Case: RCV/CA/01/C - Sensitivity - Single Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

3.4.14. Test Case: RCV/CA/02/C - Sensitivity - Multi-Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

3.4.15. Test Case: RCV/CA/07/C - EDR Sensitivity

Expected Outcome:

All values as measured must fulfill the following conditions at low, medium and high frequencies:

1.Either BER < 0.007% after 1,600,000 bits or BER < 0.01% after 16,000,000 bit

Packet Type	Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2DH5	2402	0	≤0.007	Pass
	2441	0	≤0.007	Pass
	2480	0	≤0.007	Pass
3DH5	2402	0	≤0.007	Pass
	2441	0	≤0.007	Pass
	2480	0	≤0.007	Pass

3.5. Test Case List for Low Temperature Low Voltage

3.5.1. RF Description

EUT Power Class	Class 1
EUT Antenna Gain	2.5 dBi
Test Condition	Low Temperature Low Voltage
EUT To Spectrum Loss (Low)	9.64
EUT To Spectrum Loss (Mid)	9.61
EUT To Spectrum Loss (High)	9.77

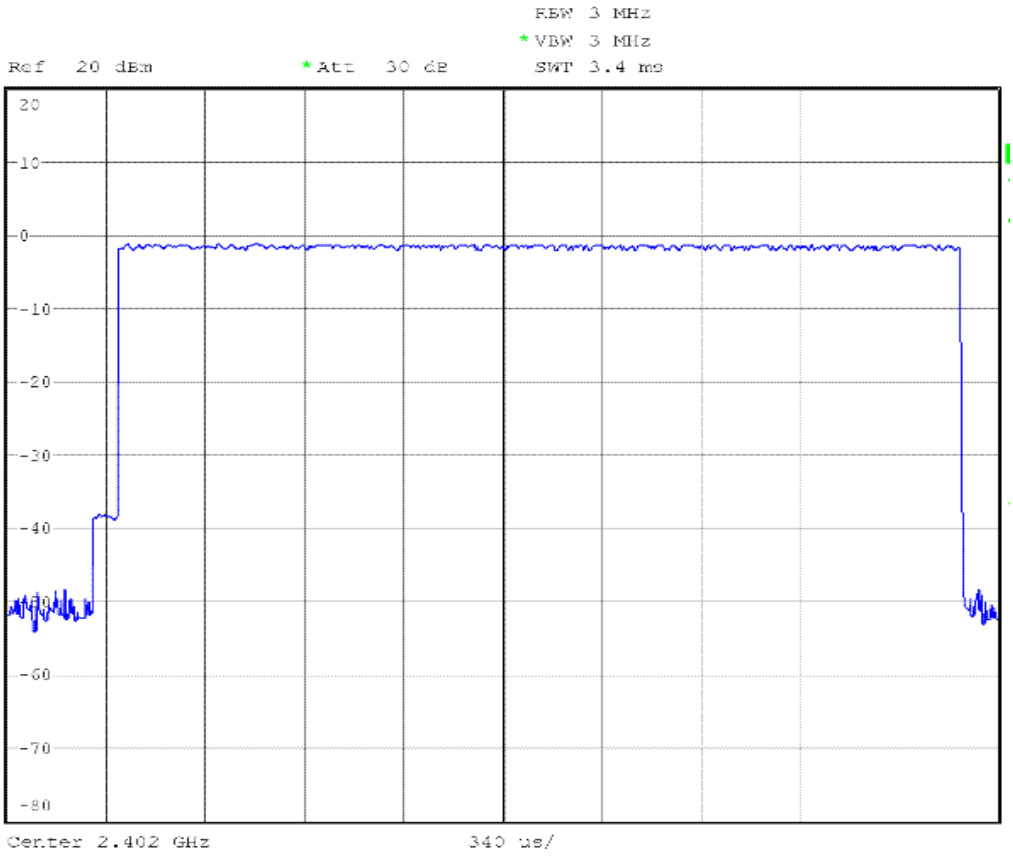
3.5.2. Test Case: TRM/CA/01/C - Output Power

Expected Outcome:

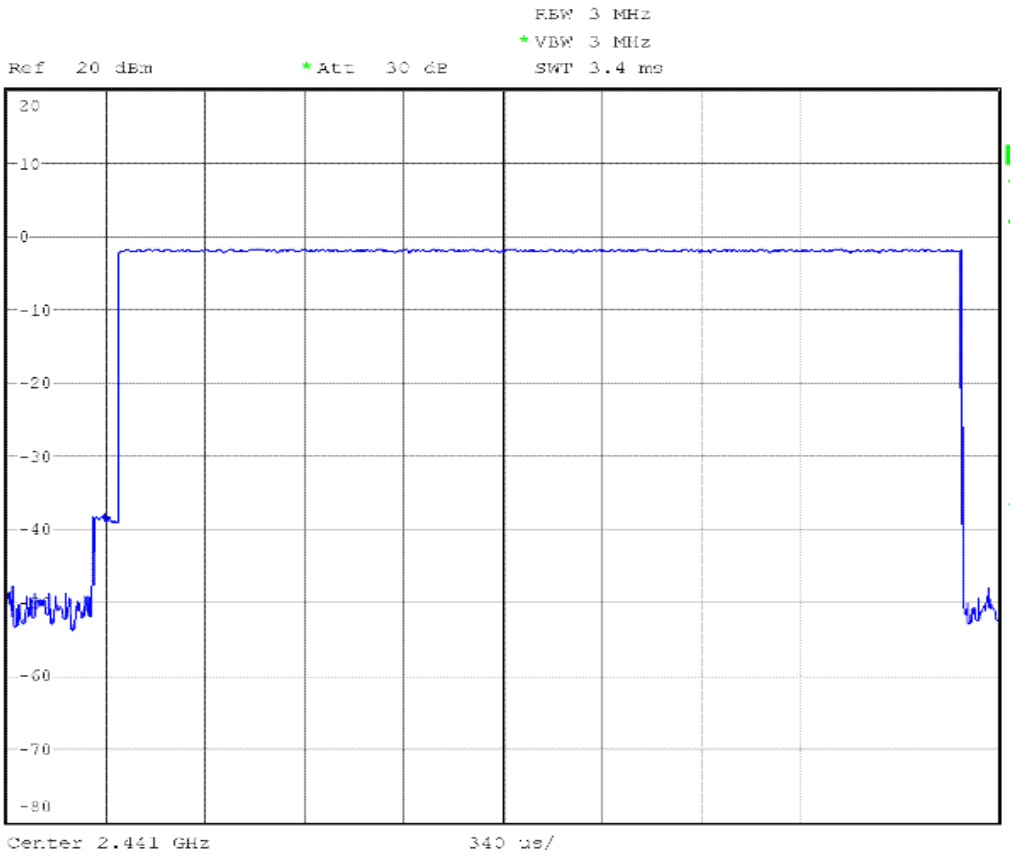
All values as measured must fulfill the following conditions:

1. P av < 100mW (20 dBm) EIRP
2. P pk < 200mW (23 dBm) EIRP
3. If the EUT is a power class 1 equipment :P av > 1mW (0dBm)
4. If the EUT is a power class 2 equipment :0.25mW (-6 dBm) < P av < 2.5mW (4dBm)
5. If the EUT is a power class 3 equipment :P av < 1mW (0dBm)

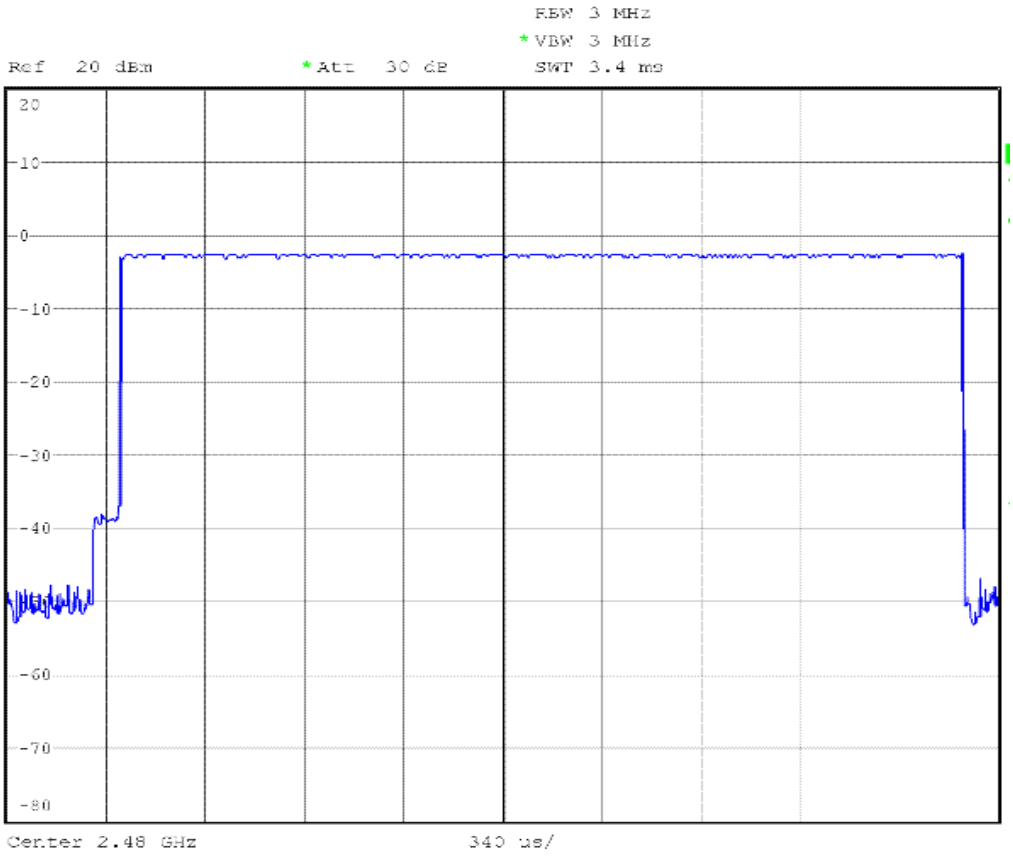
Test Frequency	Item	Value(mW)	Verdict
Low operating frequency (2402MHz)	Peak Power	6.73	N/A
	Average Power	6.31	Pass
	Peak Power (EIRP)	11.97	Pass
	Average Power (EIRP)	11.22	Pass
Mid operating frequency (2441MHz)	Peak Power	5.87	N/A
	Average Power	5.67	Pass
	Peak Power (EIRP)	10.45	Pass
	Average Power (EIRP)	10.08	Pass
High operating frequency (2480MHz)	Peak Power	5.13	N/A
	Average Power	4.91	Pass
	Peak Power (EIRP)	9.12	Pass
	Average Power (EIRP)	8.72	Pass



Output Power (Low operating frequency)



Output Power (Mid operating frequency)



Output Power (High operating frequency)

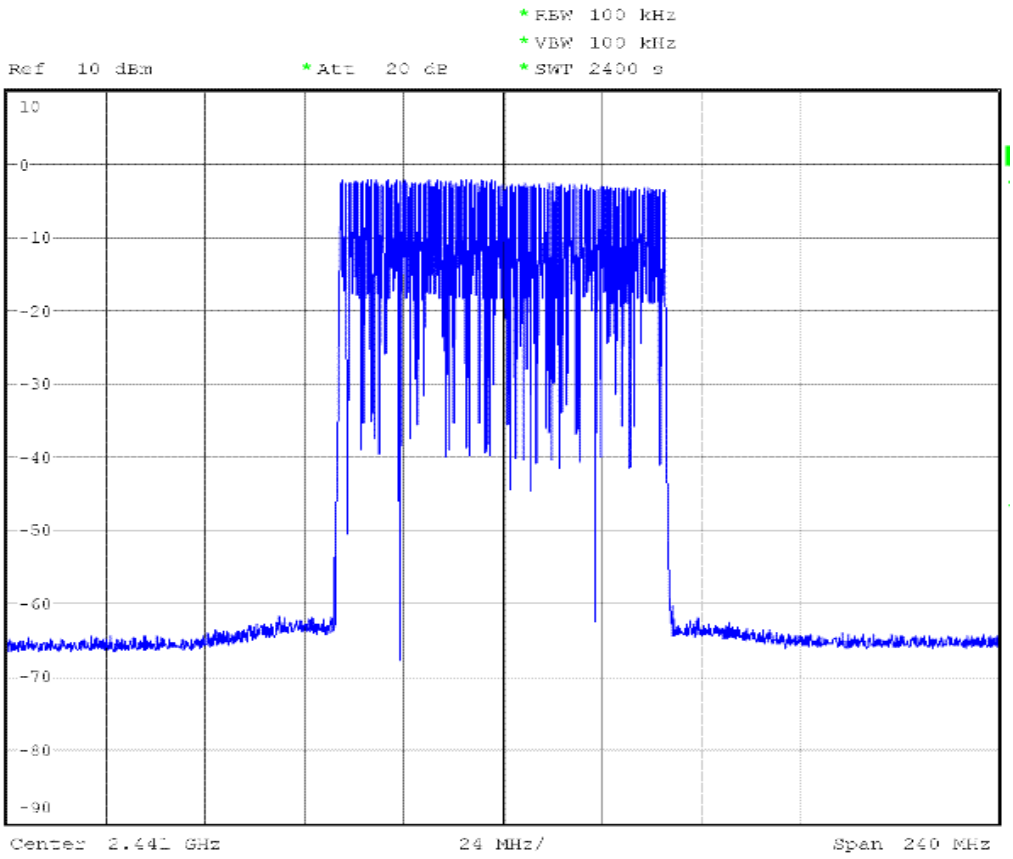
3.5.3. Test Case: TRM/CA/02/C - Power Density

Expected Outcome:

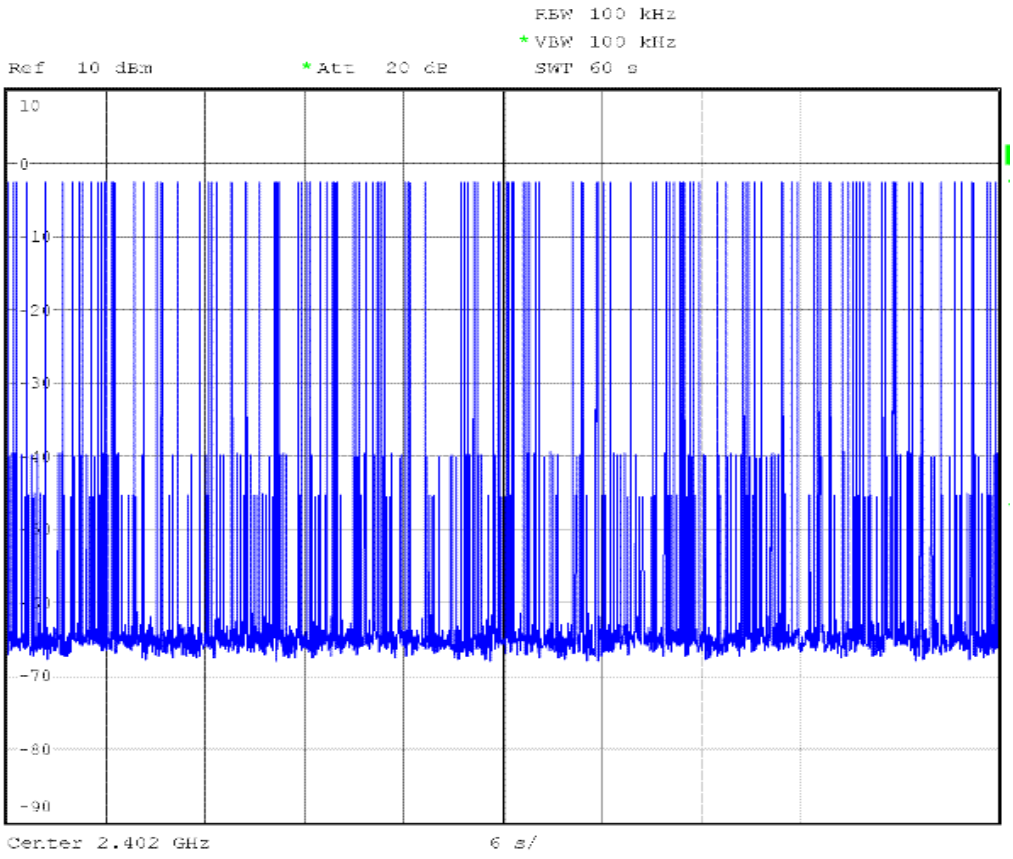
All values as measured must fulfill the following conditions:

1. Power Density < 100 mW (20dBm) per 100 kHz EIRP

Max Frequency (MHz)	Peak Power (mW)	Power Density (mW/100KHz)	Limit (mW/100KHz)	Verdict
2402.00 MHz	5.47	8.96	<100	Pass



Power Density (Step1)



Power Density (Step2)

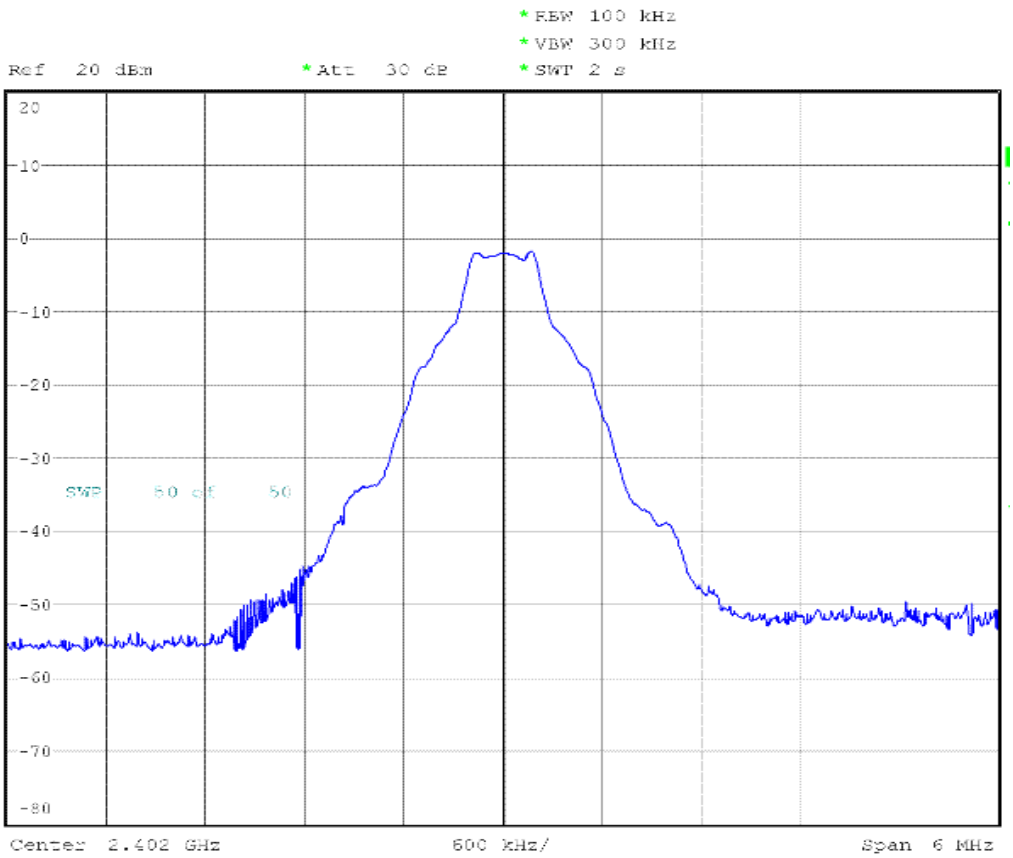
3.5.4. Test Case: TRM/CA/04/C - TX Output Spectrum - Frequency Range

Expected Outcome:

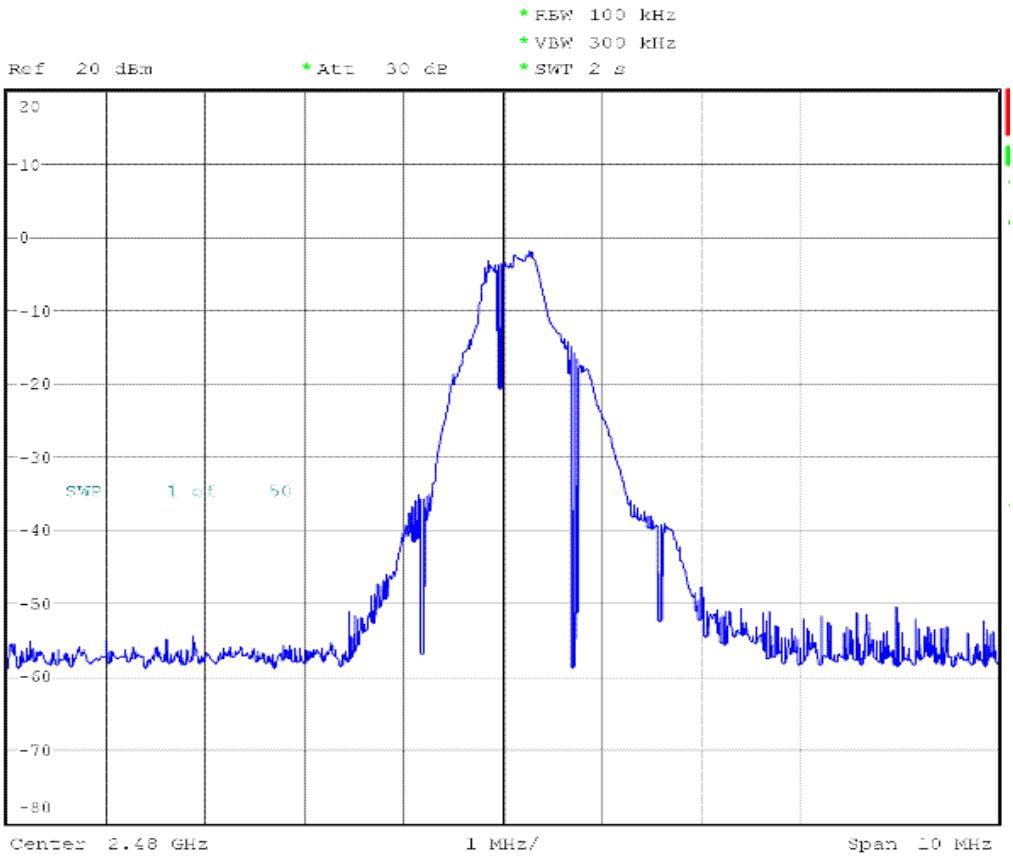
All values as measured must fulfill the following conditions:

1. fL, fH within the allowed frequency band :2.4 GHz – 2.4835 GHz

Frequency (MHz)		Limit(MHz)	Verdict
Lowest(fL)	2400.98	fL>2400.0	Pass
Highest(fH)	2478.42	fH <2483.5	Pass



TX Output Spectrum – Frequency range (fL)



TX Output Spectrum – Frequency range (fH)

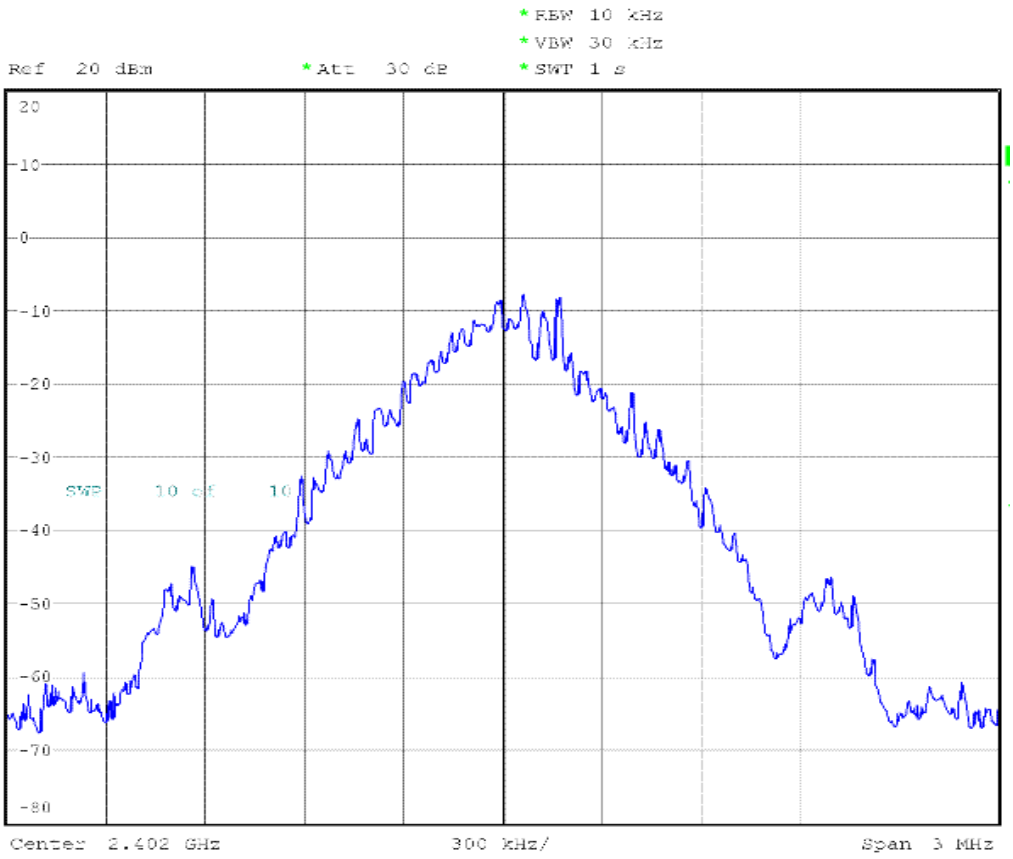
3.5.5. Test Case: TRM/CA/05/C - TX Output Spectrum - 20 dB Bandwidth

Expected Outcome:

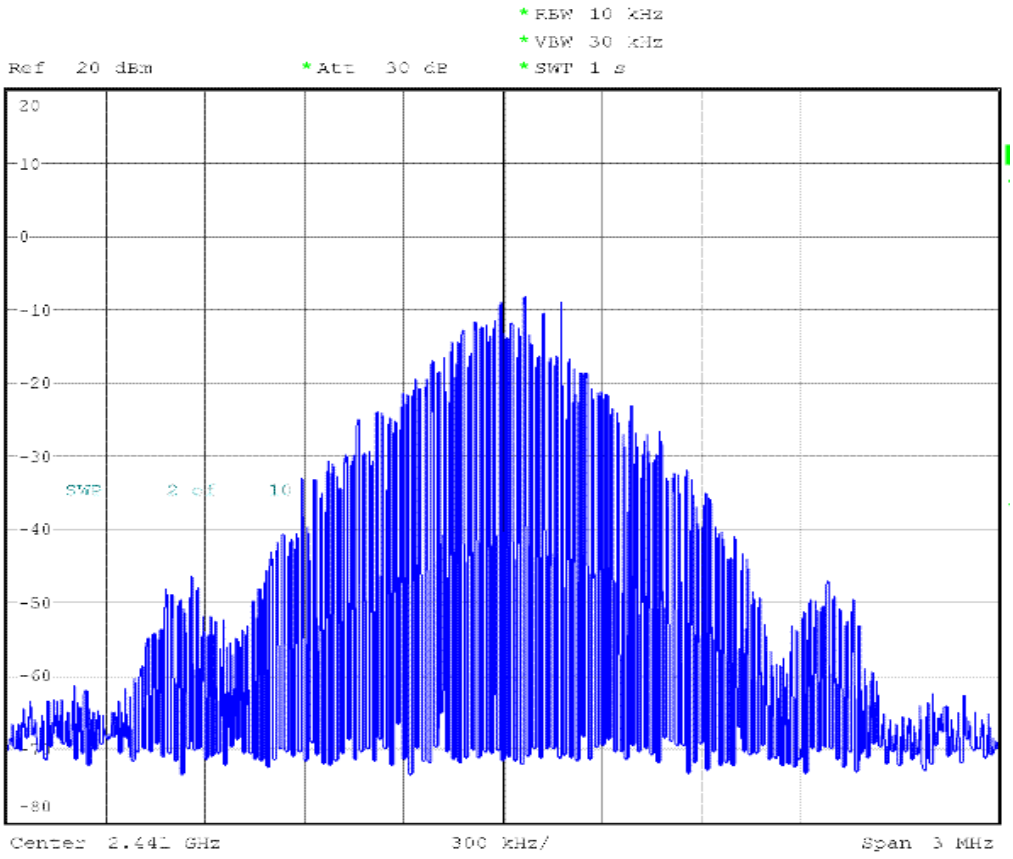
All values as measured must fulfill the following conditions:

1.The Transmit spectrum shall fulfill the following mask :Δf = |fH - fL| ≤ 1.0 MHz

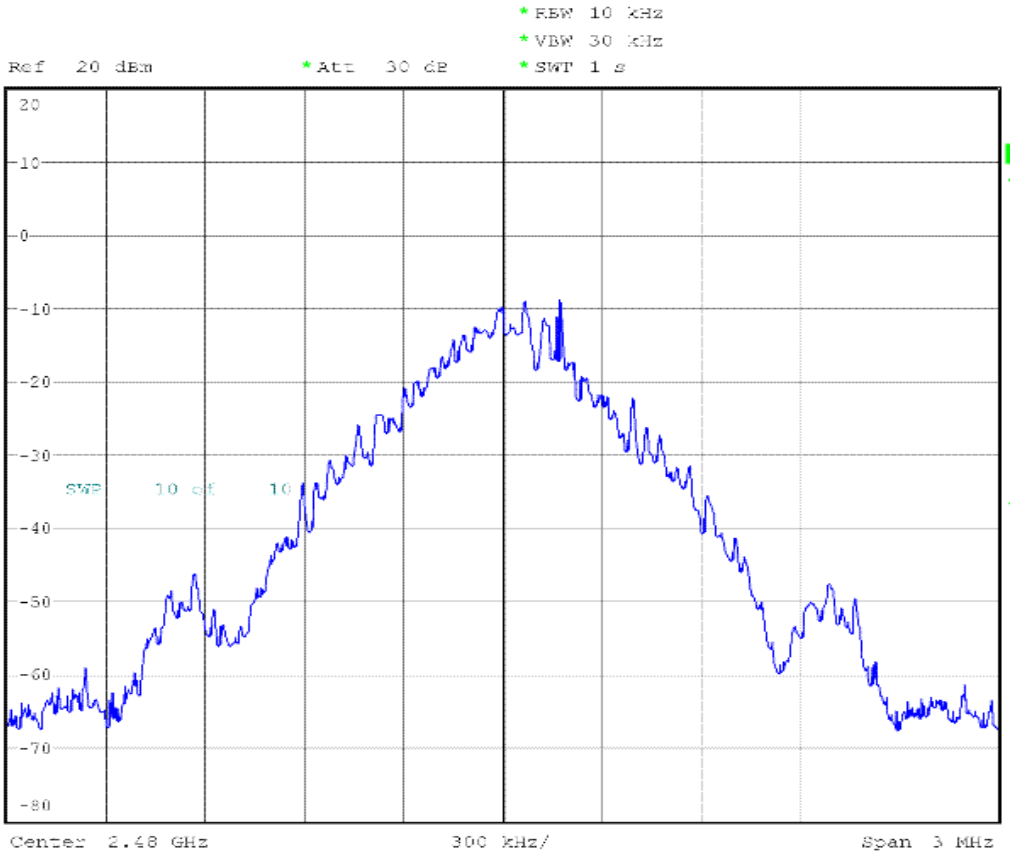
Test Frequency (MHz)		fL (MHz)	fH (MHz)	Δ f = | fH - fL | (MHz)	Limit	Verdict
Low Frequency	2402	2402.04	2402.98	0.94	≤1.0	Pass
Mid Frequency	2441	2441.48	2441.52	0.03	≤1.0	Pass
High Frequency	2480	2480.10	2480.87	0.77	≤1.0	Pass



TX Output Spectrum – 20 dB Bandwidth (Low Frequency)



TX Output Spectrum – 20 dB Bandwidth (Mid Frequency)



TX Output Spectrum – 20 dB Bandwidth (High Frequency)

3.5.6. Test Case: TRM/CA/06/C - TX Output Spectrum - Adjacent Channel Power

Expected Outcome:

All values as measured must fulfill the following conditions:

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency which is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

1. Ptx (f) ≤ – 20 dBm for | M-N | = 2
2. Ptx (f) ≤ – 40 dBm for | M-N | ≥ 3

Test Frequency (MHz)	Adjacent Channel Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
Low Frequency (2402 MHz)	2402	-55.29	≤ -40	Pass
	2403	-51.44	≤ -20	Pass
	2404	-17.86	N/A	N/A
	2405	8.29	N/A	N/A

	2406	-17.92	N/A	N/A
	2407	-51.77	≤ -20	Pass
	2408	-54.55	≤ -40	Pass
	2409	-55.72	≤ -40	Pass
	2410	-55.98	≤ -40	Pass
	2411	-56.21	≤ -40	Pass
	2412	-55.62	≤ -40	Pass
	2413	-55.29	≤ -40	Pass
	2414	-55.18	≤ -40	Pass
	2415	-55.38	≤ -40	Pass
	2416	-54.95	≤ -40	Pass
	2417	-55.06	≤ -40	Pass
	2418	-55.23	≤ -40	Pass
	2419	-55.16	≤ -40	Pass
	2420	-55.36	≤ -40	Pass
	2421	-54.96	≤ -40	Pass
	2422	-55.67	≤ -40	Pass
	2423	-55.57	≤ -40	Pass
	2424	-55.55	≤ -40	Pass
	2425	-55.97	≤ -40	Pass
	2426	-55.76	≤ -40	Pass
	2427	-56.05	≤ -40	Pass
	2428	-56.38	≤ -40	Pass
	2429	-56.73	≤ -40	Pass
	2430	-56.53	≤ -40	Pass
	2431	-57.10	≤ -40	Pass
	2432	-57.46	≤ -40	Pass
	2433	-57.45	≤ -40	Pass
	2434	-57.36	≤ -40	Pass
	2435	-58.02	≤ -40	Pass
	2436	-58.60	≤ -40	Pass
	2437	-58.24	≤ -40	Pass
	2438	-58.91	≤ -40	Pass
	2439	-59.03	≤ -40	Pass
	2440	-59.46	≤ -40	Pass
	2441	-59.27	≤ -40	Pass
	2442	-60.16	≤ -40	Pass
	2443	-60.44	≤ -40	Pass

	2444	-60.71	≤ -40	Pass
	2445	-60.72	≤ -40	Pass
	2446	-61.42	≤ -40	Pass
	2447	-61.67	≤ -40	Pass
	2448	-61.80	≤ -40	Pass
	2449	-62.14	≤ -40	Pass
	2450	-62.43	≤ -40	Pass
	2451	-62.66	≤ -40	Pass
	2452	-62.85	≤ -40	Pass
	2453	-62.96	≤ -40	Pass
	2454	-63.39	≤ -40	Pass
	2455	-63.59	≤ -40	Pass
	2456	-63.54	≤ -40	Pass
	2457	-61.30	≤ -40	Pass
	2458	-64.04	≤ -40	Pass
	2459	-64.09	≤ -40	Pass
	2460	-64.14	≤ -40	Pass
	2461	-64.31	≤ -40	Pass
	2462	-64.29	≤ -40	Pass
	2463	-64.33	≤ -40	Pass
	2464	-64.36	≤ -40	Pass
	2465	-64.39	≤ -40	Pass
	2466	-64.56	≤ -40	Pass
	2467	-64.57	≤ -40	Pass
	2468	-64.53	≤ -40	Pass
	2469	-64.41	≤ -40	Pass
	2470	-64.71	≤ -40	Pass
	2471	-64.56	≤ -40	Pass
	2472	-64.38	≤ -40	Pass
	2473	-64.42	≤ -40	Pass
	2474	-64.40	≤ -40	Pass
	2475	-64.43	≤ -40	Pass
	2476	-63.64	≤ -40	Pass
	2477	-44.40	≤ -40	Pass
	2478	-63.58	≤ -40	Pass
	2479	-53.93	≤ -40	Pass
	2480	-64.55	≤ -40	Pass
	2402	-60.19	≤ -40	Pass

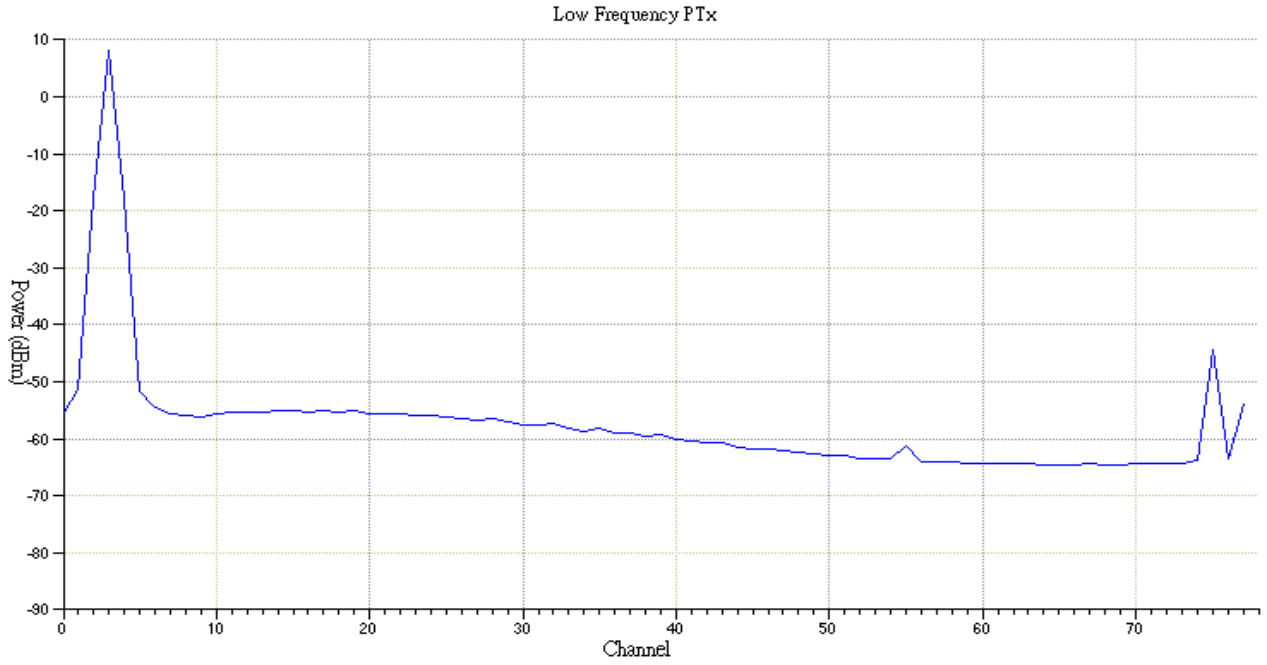
Mid Frequency (2441 MHz)	2403	-59.90	≤ -40	Pass
	2404	-59.61	≤ -40	Pass
	2405	-44.31	≤ -40	Pass
	2406	-58.83	≤ -40	Pass
	2407	-52.08	≤ -40	Pass
	2408	-58.36	≤ -40	Pass
	2409	-58.02	≤ -40	Pass
	2410	-58.17	≤ -40	Pass
	2411	-57.54	≤ -40	Pass
	2412	-57.19	≤ -40	Pass
	2413	-56.97	≤ -40	Pass
	2414	-56.73	≤ -40	Pass
	2415	-56.76	≤ -40	Pass
	2416	-56.45	≤ -40	Pass
	2417	-56.19	≤ -40	Pass
	2418	-56.19	≤ -40	Pass
	2419	-55.71	≤ -40	Pass
	2420	-55.73	≤ -40	Pass
	2421	-55.51	≤ -40	Pass
	2422	-55.56	≤ -40	Pass
	2423	-55.40	≤ -40	Pass
	2424	-55.38	≤ -40	Pass
	2425	-55.40	≤ -40	Pass
	2426	-55.00	≤ -40	Pass
	2427	-55.14	≤ -40	Pass
	2428	-55.04	≤ -40	Pass
	2429	-55.22	≤ -40	Pass
	2430	-55.11	≤ -40	Pass
	2431	-54.95	≤ -40	Pass
	2432	-55.80	≤ -40	Pass
	2433	-56.08	≤ -40	Pass
	2434	-56.16	≤ -40	Pass
	2435	-56.52	≤ -40	Pass
	2436	-55.64	≤ -40	Pass
	2437	-55.99	≤ -40	Pass
	2438	-55.62	≤ -40	Pass
	2439	-52.12	≤ -20	Pass
	2440	-18.41	N/A	N/A

	2441	7.74	N/A	N/A
	2442	-18.40	N/A	N/A
	2443	-52.21	≤ -20	Pass
	2444	-55.26	≤ -40	Pass
	2445	-56.16	≤ -40	Pass
	2446	-55.54	≤ -40	Pass
	2447	-56.53	≤ -40	Pass
	2448	-56.24	≤ -40	Pass
	2449	-55.82	≤ -40	Pass
	2450	-55.66	≤ -40	Pass
	2451	-55.87	≤ -40	Pass
	2452	-55.46	≤ -40	Pass
	2453	-55.28	≤ -40	Pass
	2454	-55.48	≤ -40	Pass
	2455	-55.92	≤ -40	Pass
	2456	-55.61	≤ -40	Pass
	2457	-55.50	≤ -40	Pass
	2458	-55.94	≤ -40	Pass
	2459	-55.76	≤ -40	Pass
	2460	-55.85	≤ -40	Pass
	2461	-56.25	≤ -40	Pass
	2462	-56.51	≤ -40	Pass
	2463	-56.63	≤ -40	Pass
	2464	-56.68	≤ -40	Pass
	2465	-57.22	≤ -40	Pass
	2466	-57.18	≤ -40	Pass
	2467	-57.32	≤ -40	Pass
	2468	-57.78	≤ -40	Pass
	2469	-57.94	≤ -40	Pass
	2470	-58.18	≤ -40	Pass
	2471	-58.22	≤ -40	Pass
	2472	-58.91	≤ -40	Pass
	2473	-58.79	≤ -40	Pass
	2474	-59.30	≤ -40	Pass
	2475	-59.61	≤ -40	Pass
	2476	-59.76	≤ -40	Pass
	2477	-60.19	≤ -40	Pass
	2478	-60.33	≤ -40	Pass

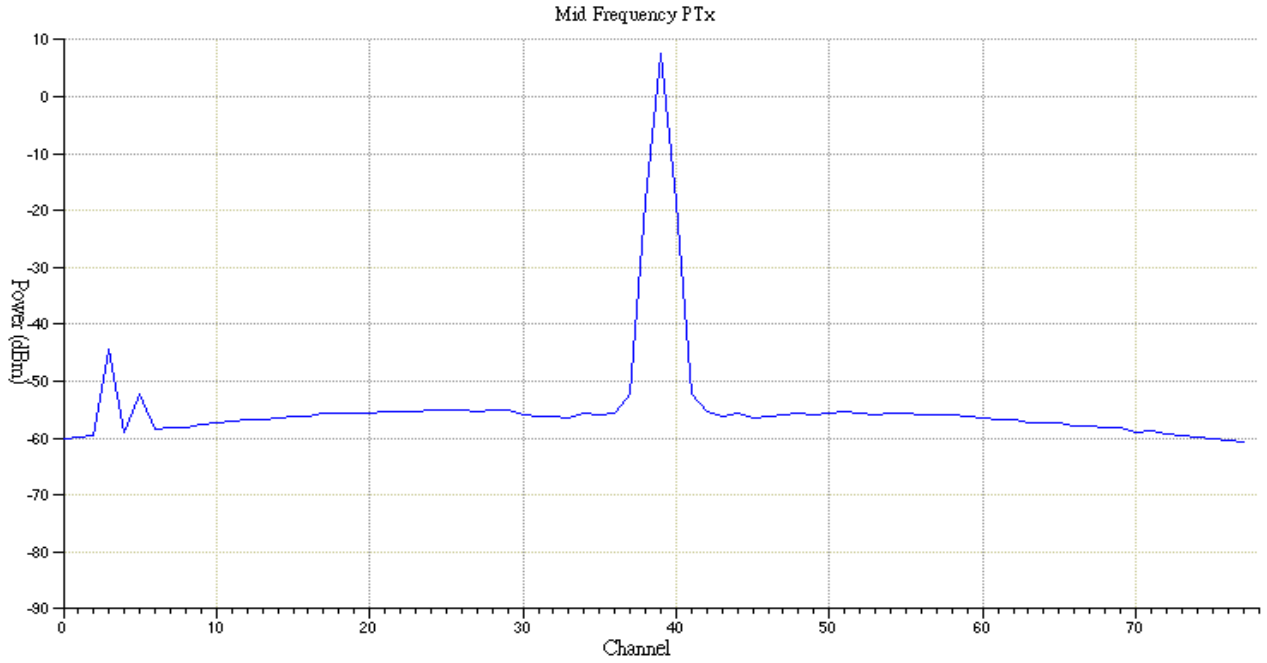
	2479	-60.56	≤ -40	Pass
	2480	-60.75	≤ -40	Pass
High Frequency (2480 MHz)	2402	-64.97	≤ -40	Pass
	2403	-64.79	≤ -40	Pass
	2404	-63.87	≤ -40	Pass
	2405	-44.00	≤ -40	Pass
	2406	-63.86	≤ -40	Pass
	2407	-53.33	≤ -40	Pass
	2408	-64.89	≤ -40	Pass
	2409	-64.92	≤ -40	Pass
	2410	-64.83	≤ -40	Pass
	2411	-64.90	≤ -40	Pass
	2412	-64.97	≤ -40	Pass
	2413	-64.89	≤ -40	Pass
	2414	-64.73	≤ -40	Pass
	2415	-64.86	≤ -40	Pass
	2416	-64.77	≤ -40	Pass
	2417	-64.76	≤ -40	Pass
	2418	-64.67	≤ -40	Pass
	2419	-64.62	≤ -40	Pass
	2420	-64.73	≤ -40	Pass
	2421	-64.38	≤ -40	Pass
	2422	-64.26	≤ -40	Pass
	2423	-64.11	≤ -40	Pass
	2424	-64.07	≤ -40	Pass
	2425	-63.45	≤ -40	Pass
	2426	-63.70	≤ -40	Pass
	2427	-63.57	≤ -40	Pass
	2428	-63.55	≤ -40	Pass
	2429	-63.13	≤ -40	Pass
	2430	-62.68	≤ -40	Pass
	2431	-62.42	≤ -40	Pass
	2432	-62.40	≤ -40	Pass
	2433	-61.99	≤ -40	Pass
	2434	-61.86	≤ -40	Pass
	2435	-61.37	≤ -40	Pass
	2436	-61.02	≤ -40	Pass
	2437	-60.92	≤ -40	Pass

	2438	-60.66	≤ -40	Pass
	2439	-60.38	≤ -40	Pass
	2440	-60.03	≤ -40	Pass
	2441	-59.48	≤ -40	Pass
	2442	-59.46	≤ -40	Pass
	2443	-59.26	≤ -40	Pass
	2444	-58.97	≤ -40	Pass
	2445	-58.67	≤ -40	Pass
	2446	-58.66	≤ -40	Pass
	2447	-57.98	≤ -40	Pass
	2448	-57.86	≤ -40	Pass
	2449	-57.64	≤ -40	Pass
	2450	-57.36	≤ -40	Pass
	2451	-57.24	≤ -40	Pass
	2452	-56.95	≤ -40	Pass
	2453	-56.73	≤ -40	Pass
	2454	-56.73	≤ -40	Pass
	2455	-56.33	≤ -40	Pass
	2456	-56.28	≤ -40	Pass
	2457	-56.06	≤ -40	Pass
	2458	-56.14	≤ -40	Pass
	2459	-55.98	≤ -40	Pass
	2460	-55.96	≤ -40	Pass
	2461	-56.01	≤ -40	Pass
	2462	-55.64	≤ -40	Pass
	2463	-55.82	≤ -40	Pass
	2464	-55.74	≤ -40	Pass
	2465	-55.68	≤ -40	Pass
	2466	-55.82	≤ -40	Pass
	2467	-55.62	≤ -40	Pass
	2468	-56.31	≤ -40	Pass
	2469	-56.48	≤ -40	Pass
	2470	-56.81	≤ -40	Pass
	2471	-56.97	≤ -40	Pass
	2472	-57.18	≤ -40	Pass
	2473	-56.99	≤ -40	Pass
	2474	-56.50	≤ -40	Pass
	2475	-52.91	≤ -20	Pass

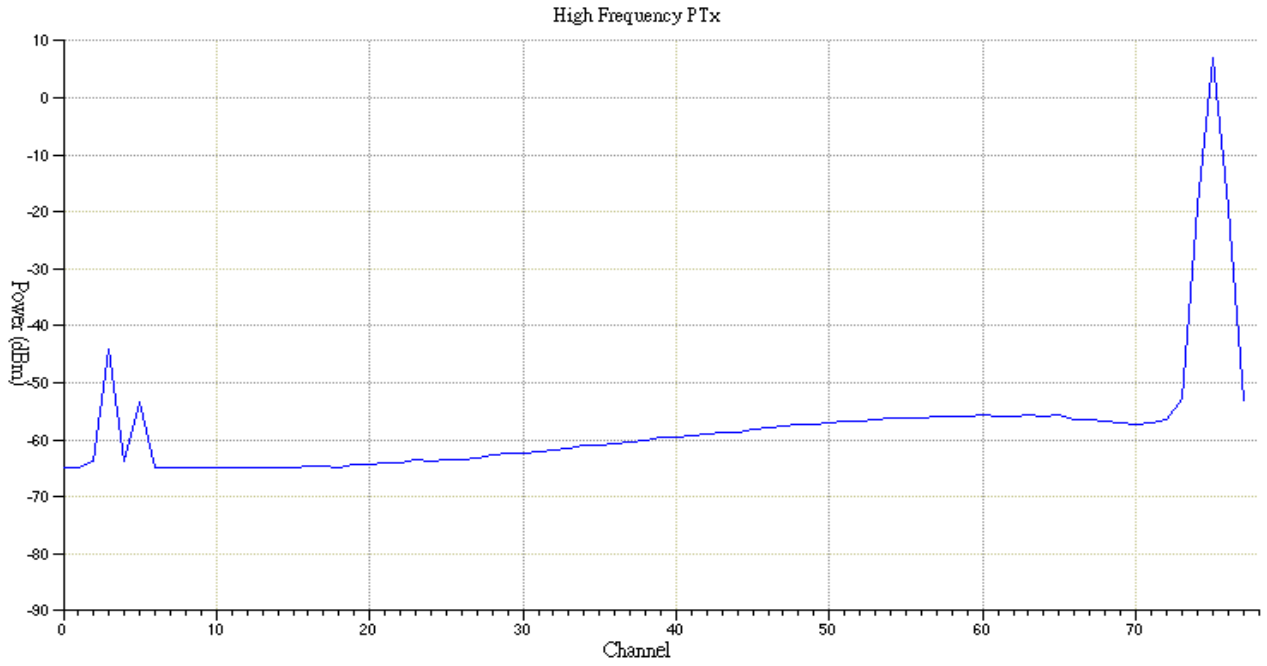
	2476	-19.05	N/A	N/A
	2477	6.94	N/A	N/A
	2478	-19.28	N/A	N/A
	2479	-53.18	≤ -20	Pass
	2480	-55.92	≤ -40	Pass



TX Output Spectrum – Adjacent channel power（Low Frequency)



TX Output Spectrum – Adjacent channel power (Mid Frequency)



TX Output Spectrum – Adjacent channel power (High Frequency)

3.5.7. Test Case: TRM/CA/07/C - Modulation Characteristics

Expected Outcome:
All values as measured must fulfill the following conditions:
1. 140 kHz ≤ Δf1avg ≤ 175 kHz
2. Δf2max ≥ 115 kHz for at least 99.9% of all Δf2max
3. Δf2avg/Δf1avg ≥ 0.8

Test Frequency (MHz)	Packet Number	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402 MHz)	1	Δ f1avg (kHz)	164.25	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.63	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.49	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	2	Δ f1avg (kHz)	164.10	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.56	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.62	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	3	Δ f1avg (kHz)	164.36	140 kHz≤Δf1avg≤175 kHz	Pass

		Δ f2max (kHz)	167.78	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.37	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	4	Δ f1avg (kHz)	164.73	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.96	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.37	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	5	Δ f1avg (kHz)	163.78	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.61	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.84	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	6	Δ f1avg (kHz)	164.24	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.86	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.49	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	7	Δ f1avg (kHz)	164.58	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.35	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.84	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	8	Δ f1avg (kHz)	164.47	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.07	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.29	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	9	Δ f1avg (kHz)	163.87	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.68	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.25	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	10	Δ f1avg (kHz)	164.08	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.91	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	162.79	N/A	N/A

		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
Mid operating Frequency (2441 MHz)	1	Δ f1avg (kHz)	163.98	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.35	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.51	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	2	Δ f1avg (kHz)	164.11	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.99	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.70	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	3	Δ f1avg (kHz)	164.18	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.52	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	164.16	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	4	Δ f1avg (kHz)	163.61	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.42	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.26	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	5	Δ f1avg (kHz)	164.00	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.70	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.05	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	6	Δ f1avg (kHz)	163.87	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.91	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.18	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	7	Δ f1avg (kHz)	164.01	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.59	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.20	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	8	Δ f1avg (kHz)	163.39	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.61	≥ 115 kHz	Pass

		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	164.28	N/A	N/A
		Δ f2avg/Δf1avg	1.01	≥ 0.8	Pass
	9	Δ f1avg (kHz)	163.57	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.48	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.75	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	10	Δ f1avg (kHz)	163.79	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.42	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	163.27	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
High operating Frequency (2480 MHz)	1	Δ f1avg (kHz)	168.49	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	163.26	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.16	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	2	Δ f1avg (kHz)	168.20	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.50	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.31	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	3	Δ f1avg (kHz)	167.86	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.35	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.28	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	4	Δ f1avg (kHz)	168.29	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.38	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.17	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	5	Δ f1avg (kHz)	168.88	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.57	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.65	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass

	6	Δ f1avg (kHz)	169.08	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.05	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.79	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	7	Δ f1avg (kHz)	168.42	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.32	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.03	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	8	Δ f1avg (kHz)	168.96	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.11	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.03	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	9	Δ f1avg (kHz)	168.47	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.43	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.43	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	10	Δ f1avg (kHz)	168.08	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.43	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.09	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass

3.5.8. Test Case: TRM/CA/08/C - Initial Carrier Frequency Tolerance

Expected Outcome:

All values as measured must fulfill the following conditions:

Each of the EUT's carrier frequency f0 as measured must be within ±75kHz from the Eut's chosen nominal carrier frequency fTX

1. fTX – 75 kHz ≤ f 0 ≤ fTX + 75 kHz.

Test Frequency (MHz)	Packets No.	Carrier Frequency (KHz)	Limit (kHz)	Verdict
Low operating Frequency (2402 MHz)	1	-6.42	-75≤ f0 ≤ +75	Pass
	2	-0.86	-75≤ f0 ≤ +75	Pass
	3	-0.86	-75≤ f0 ≤ +75	Pass
	4	-2.60	-75≤ f0 ≤ +75	Pass
	5	-2.35	-75≤ f0 ≤ +75	Pass
	6	-3.15	-75≤ f0 ≤ +75	Pass
	7	-0.66	-75≤ f0 ≤ +75	Pass
	8	-1.69	-75≤ f0 ≤ +75	Pass
	9	3.32	-75≤ f0 ≤ +75	Pass
	10	-2.29	-75≤ f0 ≤ +75	Pass
Mid operating Frequency (2441 MHz)	1	2.56	-75≤ f0 ≤ +75	Pass
	2	3.84	-75≤ f0 ≤ +75	Pass
	3	4.52	-75≤ f0 ≤ +75	Pass
	4	4.21	-75≤ f0 ≤ +75	Pass
	5	6.59	-75≤ f0 ≤ +75	Pass
	6	6.49	-75≤ f0 ≤ +75	Pass
	7	5.47	-75≤ f0 ≤ +75	Pass
	8	3.97	-75≤ f0 ≤ +75	Pass
	9	5.34	-75≤ f0 ≤ +75	Pass
	10	5.99	-75≤ f0 ≤ +75	Pass
High operating Frequency (2480 MHz)	1	6.22	-75≤ f0 ≤ +75	Pass
	2	5.16	-75≤ f0 ≤ +75	Pass
	3	4.73	-75≤ f0 ≤ +75	Pass
	4	8.76	-75≤ f0 ≤ +75	Pass
	5	10.80	-75≤ f0 ≤ +75	Pass
	6	7.53	-75≤ f0 ≤ +75	Pass
	7	6.78	-75≤ f0 ≤ +75	Pass
	8	8.37	-75≤ f0 ≤ +75	Pass

	9	7.04	-75≤ f0 ≤ +75	Pass
	10	6.27	-75≤ f0 ≤ +75	Pass

3.5.9. Test Case: TRM/CA/09/C - Carrier Frequency Drift

Expected Outcome:

All values as measured must fulfill the following conditions:

1. One slot packet -25kHz≤ MAX Frequency Drift ≤+25kHz
2. Three slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
3. Five slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
4. The maximum drift rate is 20000 Hz / 50μs.

Packet Type: DH1

Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-2.82	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.46	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-2.33	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.18	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-2.14	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	2.20	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-2.22	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	2.88	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-2.78	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.48	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-2.86	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.39	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-2.42	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	1.94	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-3.05	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.64	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-3.53	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.12	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-2.24	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.15	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	3.18	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.56	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	4.82	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.14	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.35	-25≤ fmax≤+25	Pass

	3	Maximum Drift Rate(kHz/50μs)	4.39	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	3.54	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.35	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	6.33	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	5.97	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	5.60	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.28	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	4.43	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.58	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.39	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.01	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	5.63	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.66	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.49	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	4.25	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	6.16	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	3.05	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	8.00	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.19	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	7.26	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.26	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	5.48	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	2.67	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	6.67	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.24	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.07	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.25	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	8.28	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.12	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	4.85	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.46	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	6.86	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.32	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	8.72	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.61	≤ 20	Pass
Packet Type: DH3					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict

Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-2.80	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.97	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-2.59	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	2.86	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	3.05	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	4.22	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-2.18	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.31	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-2.62	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.42	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-3.04	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.03	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-3.30	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	3.03	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	2.81	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.97	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-3.01	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.47	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	4.19	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.57	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	4.12	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	3.61	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	4.43	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.16	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	6.36	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.72	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	8.26	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	7.34	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	6.76	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	5.39	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	5.20	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.23	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.69	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.57	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.56	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.95	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	5.02	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.63	≤ 20	Pass

	10	MAX Frequency Drift(kHz)	4.08	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.29	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	5.92	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	3.37	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	7.47	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.27	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	6.52	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.75	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	8.46	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.37	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	7.56	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.38	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.52	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.27	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	7.53	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.53	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.79	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.46	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	5.78	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.61	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.36	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.66	≤ 20	Pass
Packet Type: DH5					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-3.10	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	3.21	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-2.95	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.29	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	4.14	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.78	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	3.72	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.31	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-2.54	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	2.88	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-2.25	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	2.84	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-3.10	-25≤ fmax≤+25	Pass

	7	Maximum Drift Rate(kHz/50μs)	2.67	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-3.63	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.60	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-2.68	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	2.94	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	3.68	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.39	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	5.91	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.40	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	3.56	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	3.82	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.49	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	4.34	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	4.10	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.44	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	3.35	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.17	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	4.37	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.00	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.94	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.38	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.39	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.88	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	3.58	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.83	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.58	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.48	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	6.39	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	3.53	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	6.89	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.04	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.60	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.52	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	8.17	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	5.74	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	6.39	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.73	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	7.73	-25≤ fmax≤+25	Pass

	6	Maximum Drift Rate(kHz/50μs)	4.91	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	7.21	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.89	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.94	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	3.64	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	6.04	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.64	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	8.97	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.35	≤ 20	Pass

3.5.10. Test Case: TRM/CA/10/C - EDR Relative Transmit Power

Expected Outcome:

All values as measured must fulfill the following conditions:

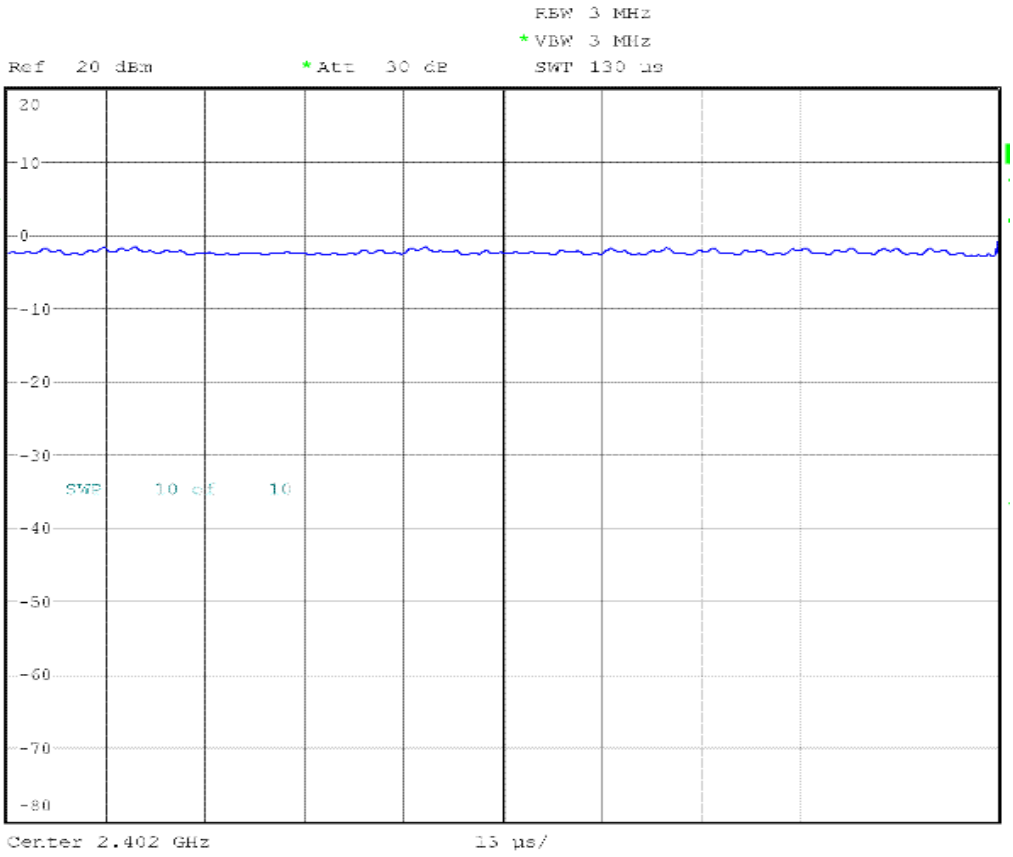
1. For all pairs of results: (PGFSK– 4dB) < PDPSK < (PGFSK + 1dB)

Packet Type:2DH5

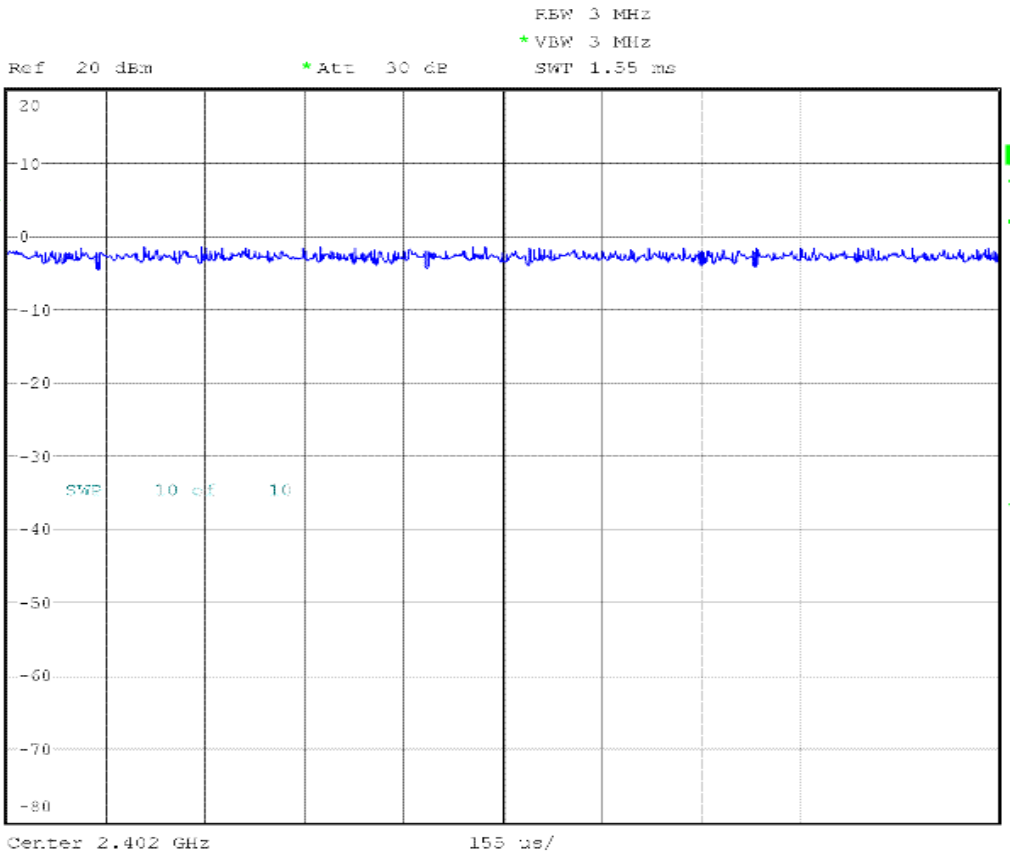
Test Frequency (MHz)	Average Power PGFSK (dBm)	Average Power PDPSK (dBm)	Limit (dBm)	Verdict
2402	7.20	6.90	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2402	-22.62	-22.90	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	6.87	6.53	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	-22.83	-23.07	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	6.15	5.92	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	-23.51	-23.74	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass

Packet Type: 3DH5

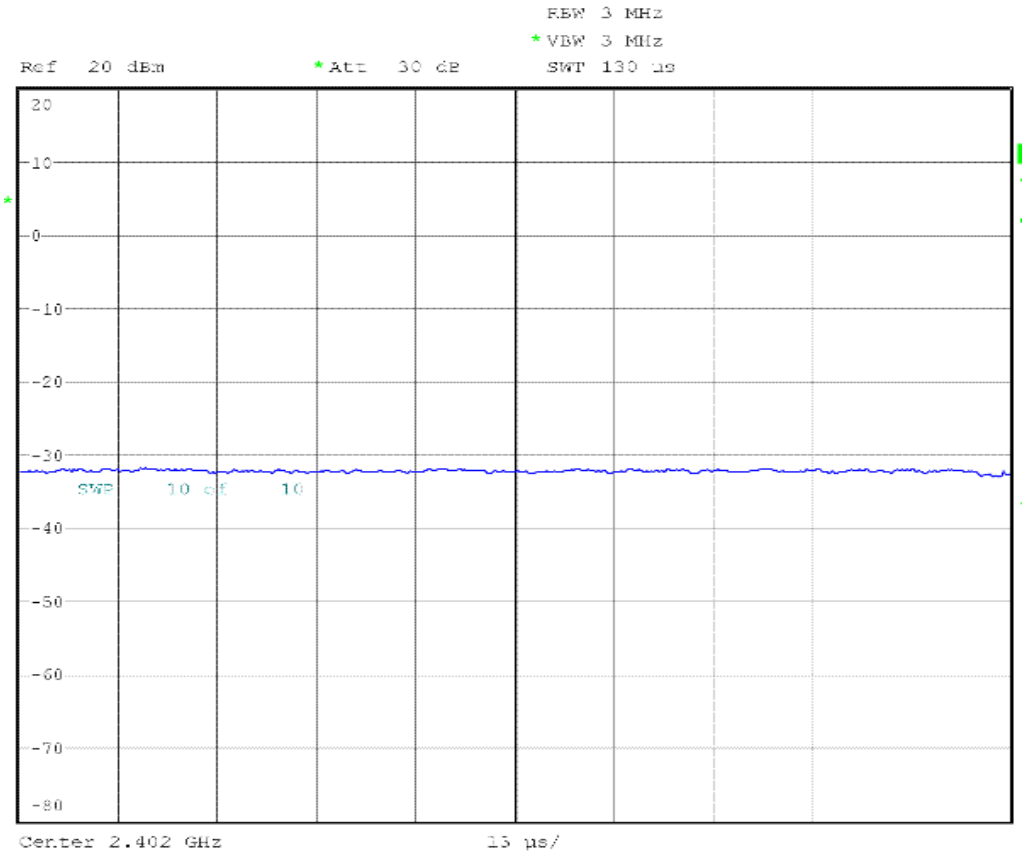
Test Frequency (MHz)	Average Power PGFSK (dBm)	Average Power PDPSK (dBm)	Limit (dBm)	Verdict
2402	7.21	6.96	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2402	-22.61	-22.86	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	6.88	6.51	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2441	-22.77	-23.00	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	6.15	5.88	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass
2480	-23.50	-23.68	(PGFSK-4dB)<PDPSK<(PGFSK+1dB)	Pass



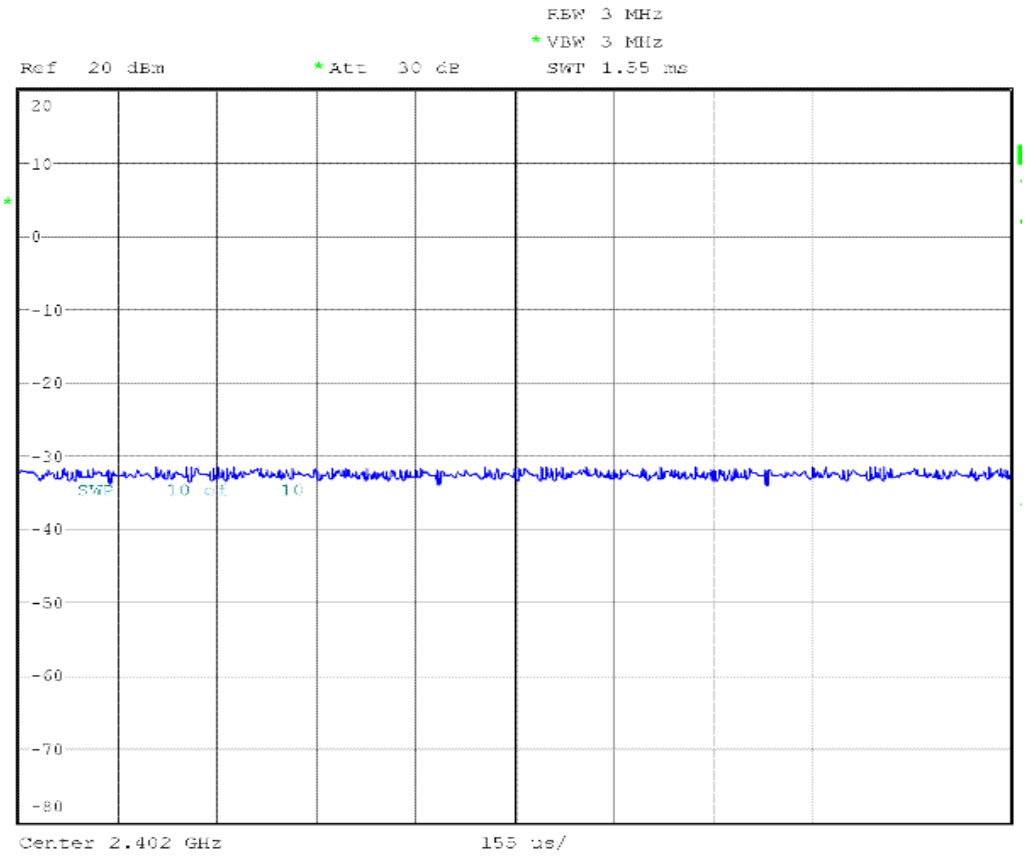
EDR Relative Transmit Power GFSK Low Max (2DH5)



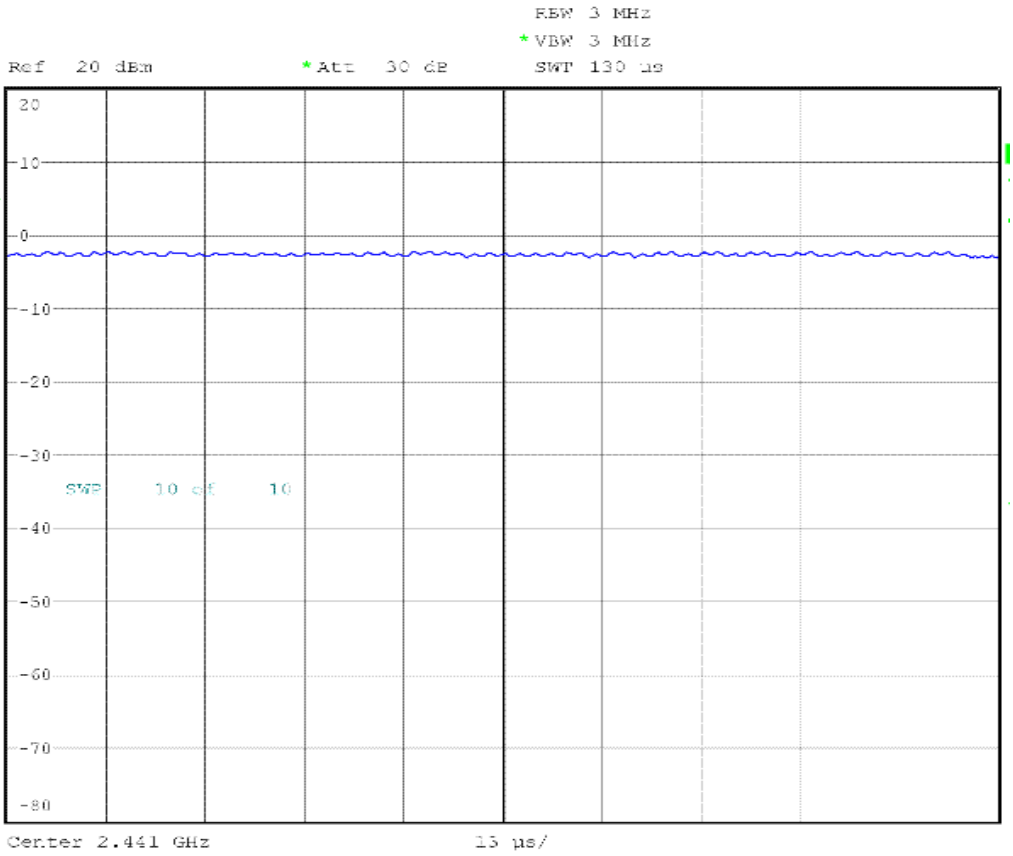
EDR Relative Transmit Power DPSK Low Max (2DH5)



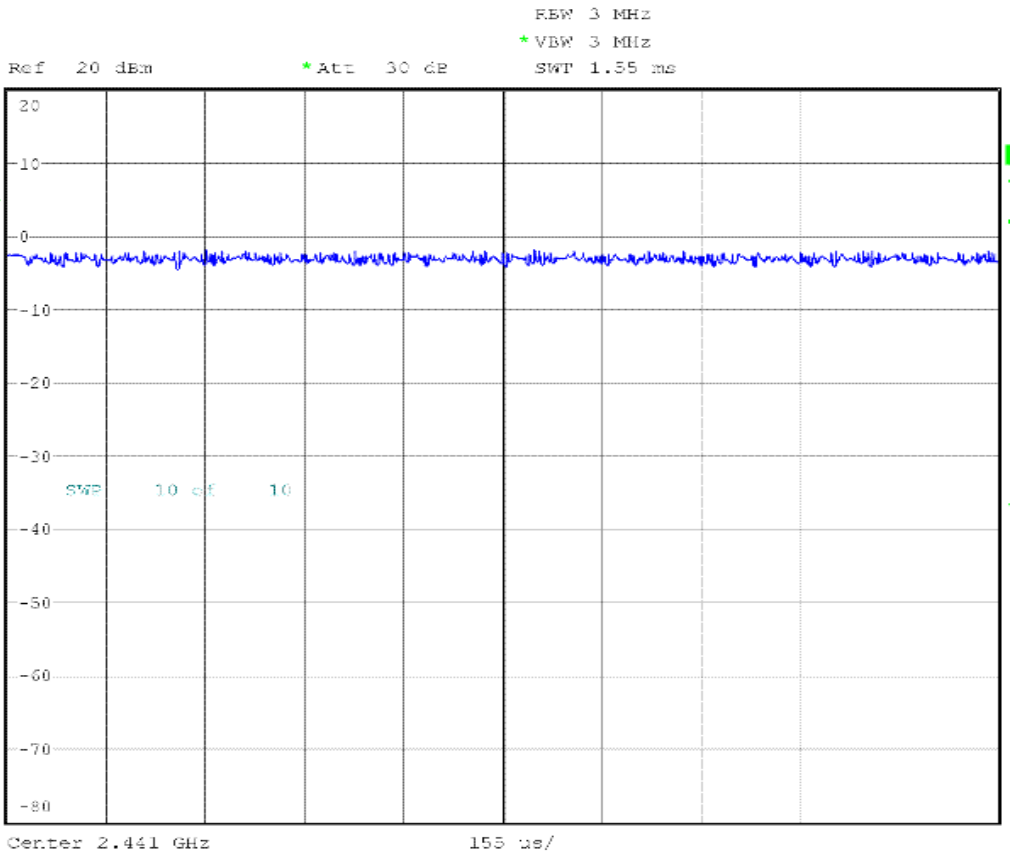
EDR Relative Transmit Power GFSK Low Min (2DH5)



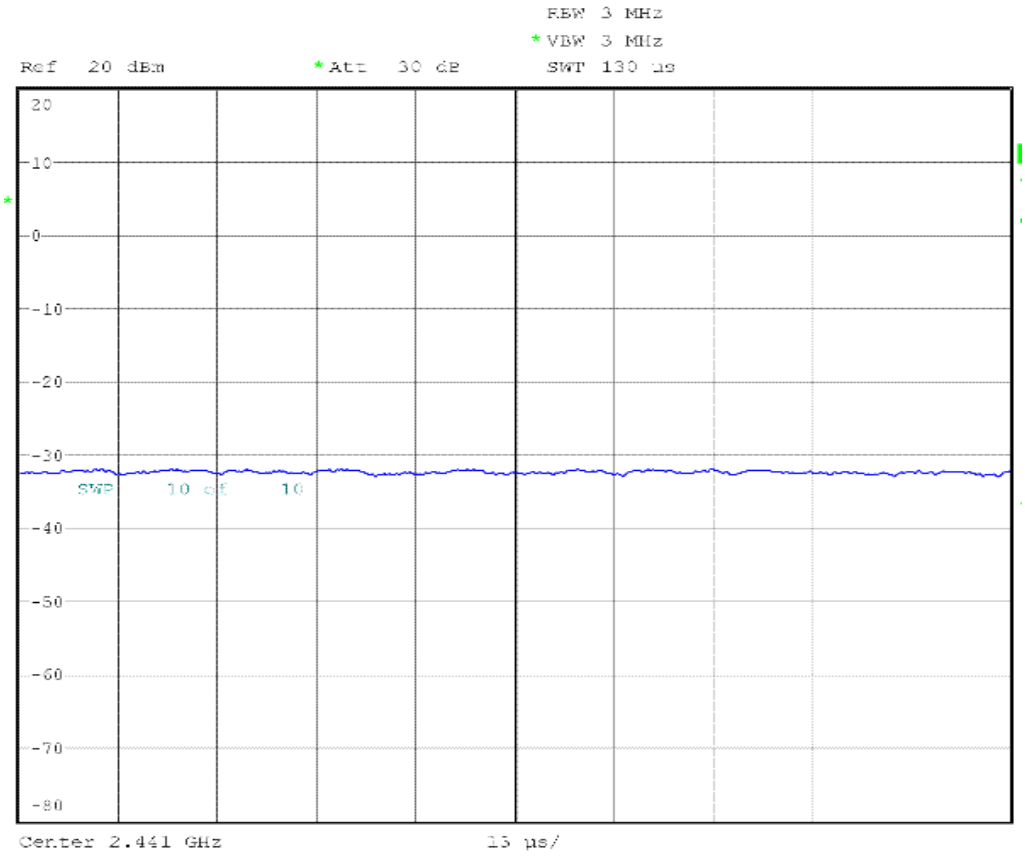
EDR Relative Transmit Power DPSK Low Min (2DH5)



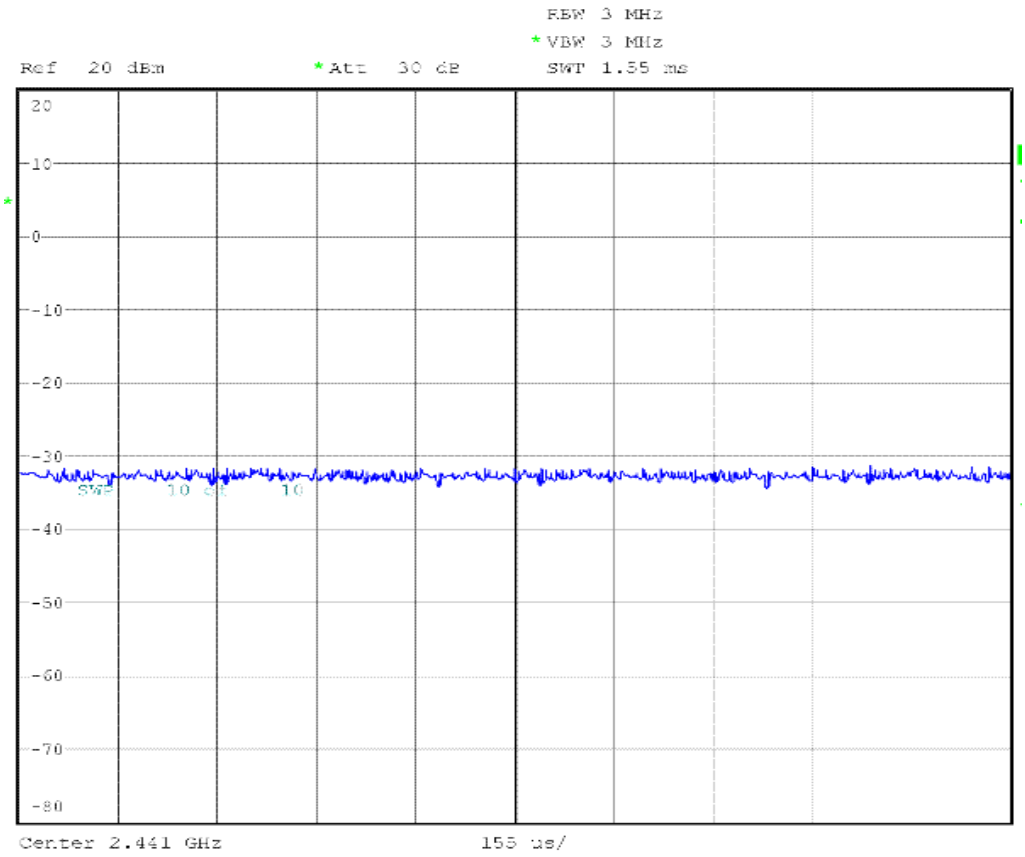
EDR Relative Transmit Power GFSK Mid Max (2DH5)



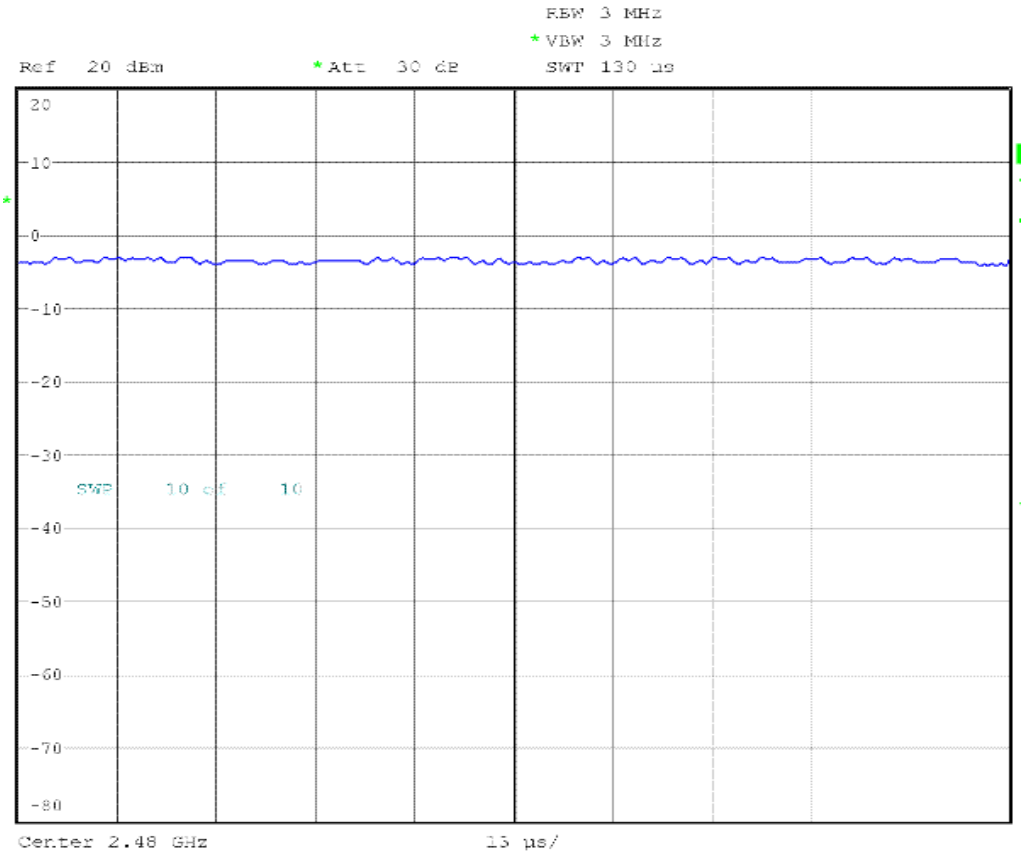
EDR Relative Transmit Power DPSK Mid Max (2DH5)



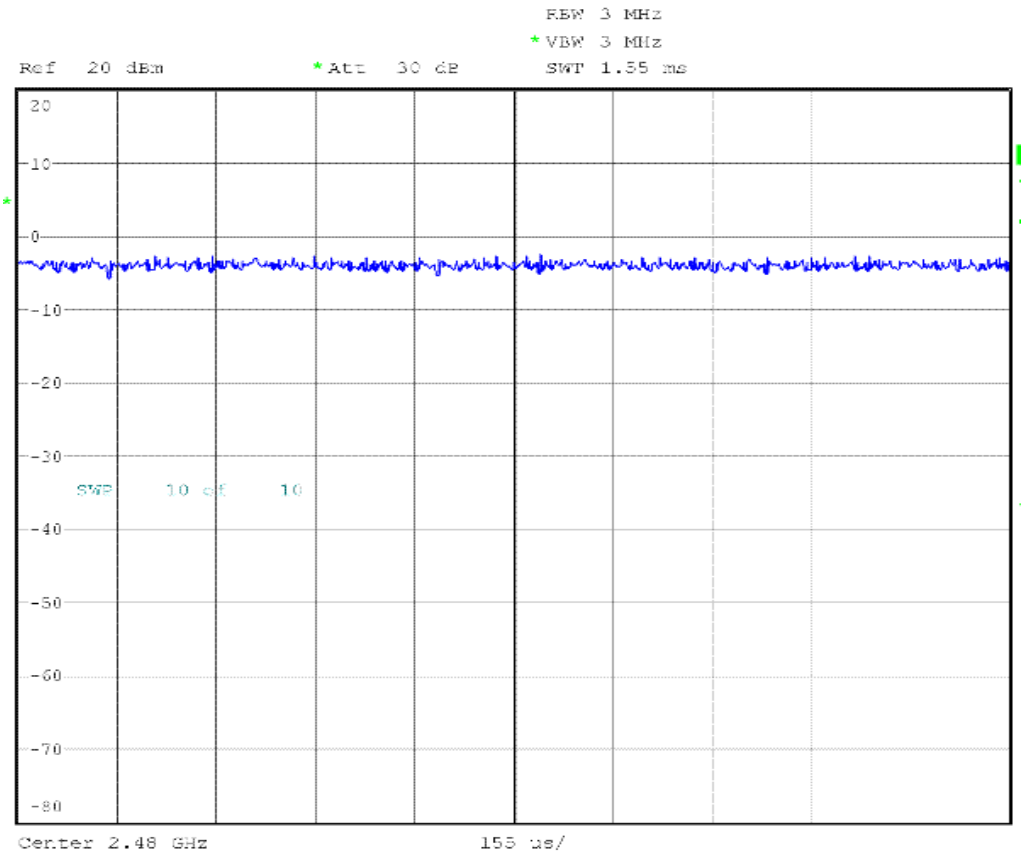
EDR Relative Transmit Power GFSK Mid Min (2DH5)



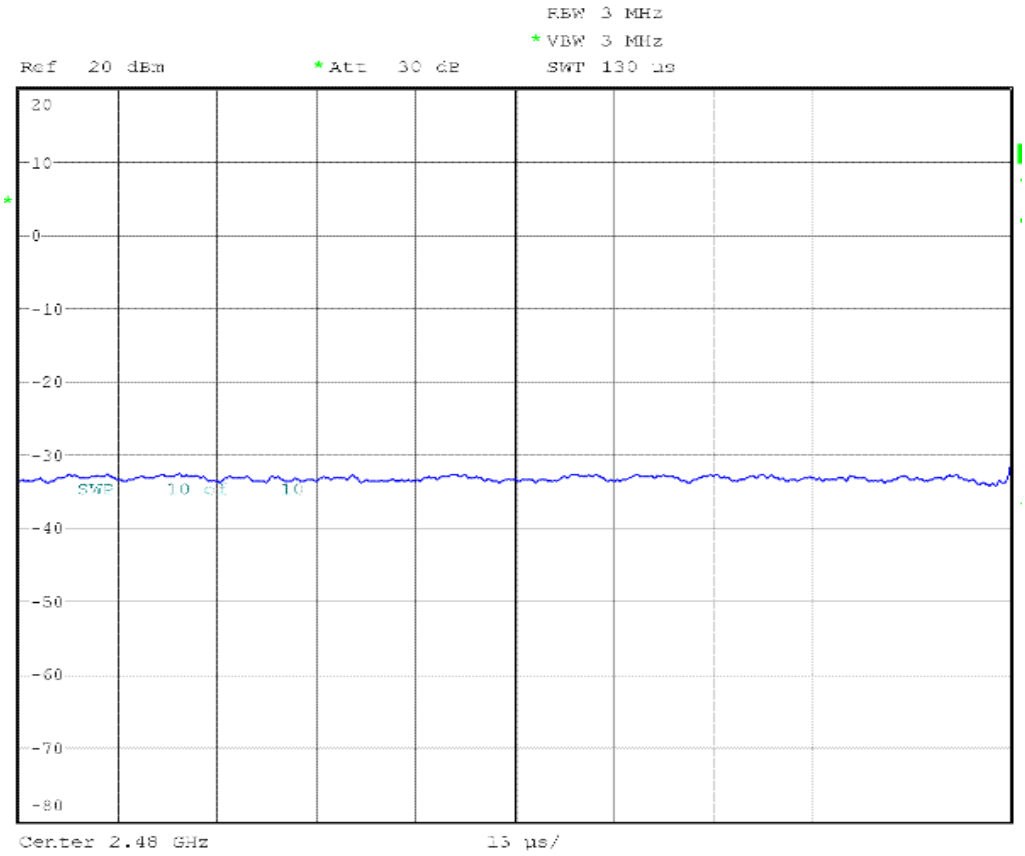
EDR Relative Transmit Power DPSK Mid Min (2DH5)



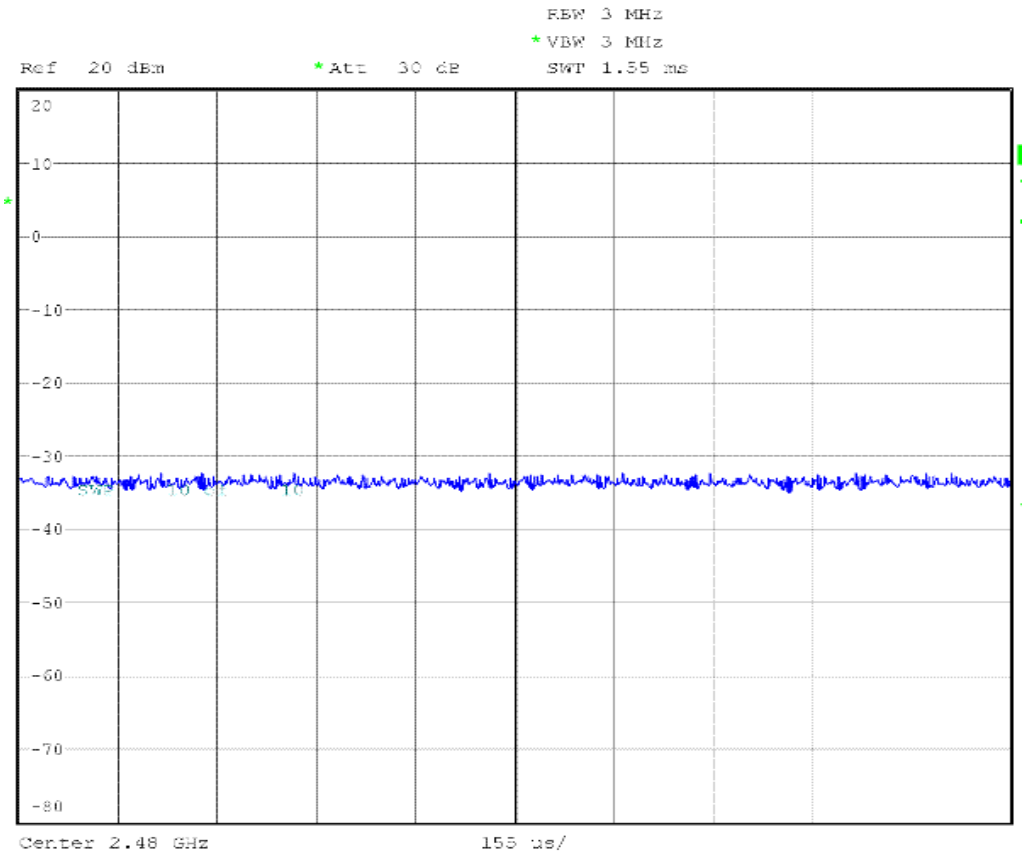
EDR Relative Transmit Power GFSK High Max (2DH5)



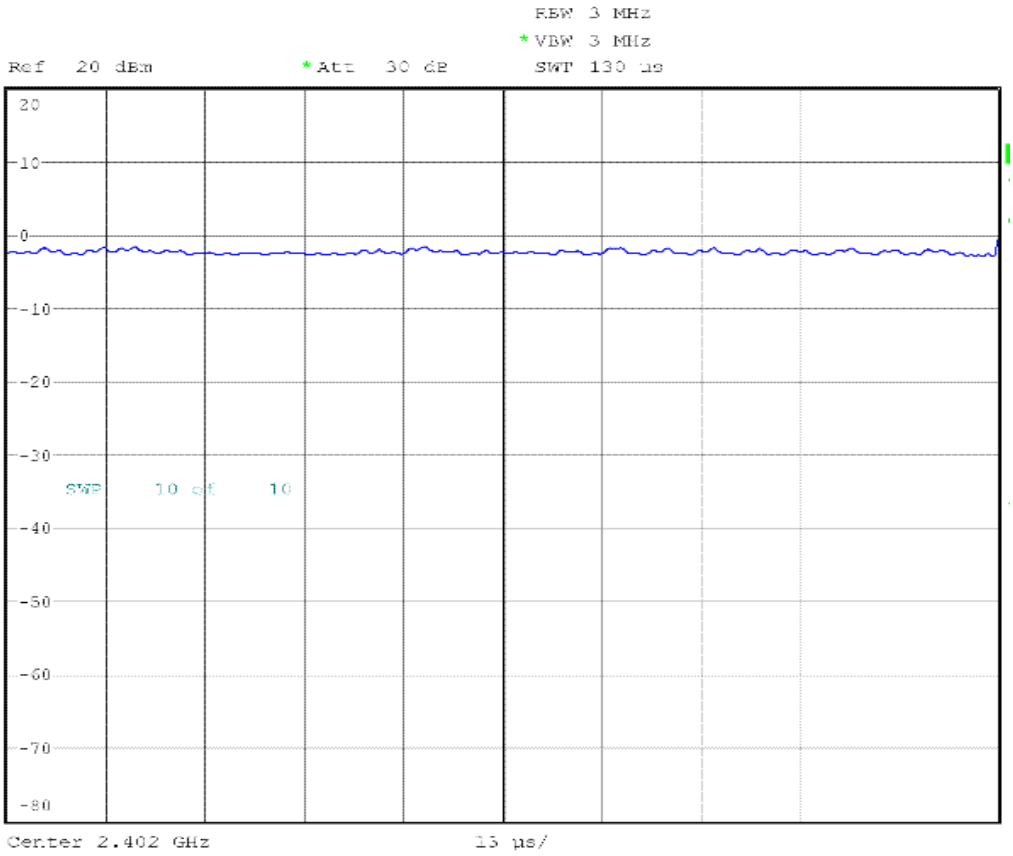
EDR Relative Transmit Power DPSK High Max (2DH5)



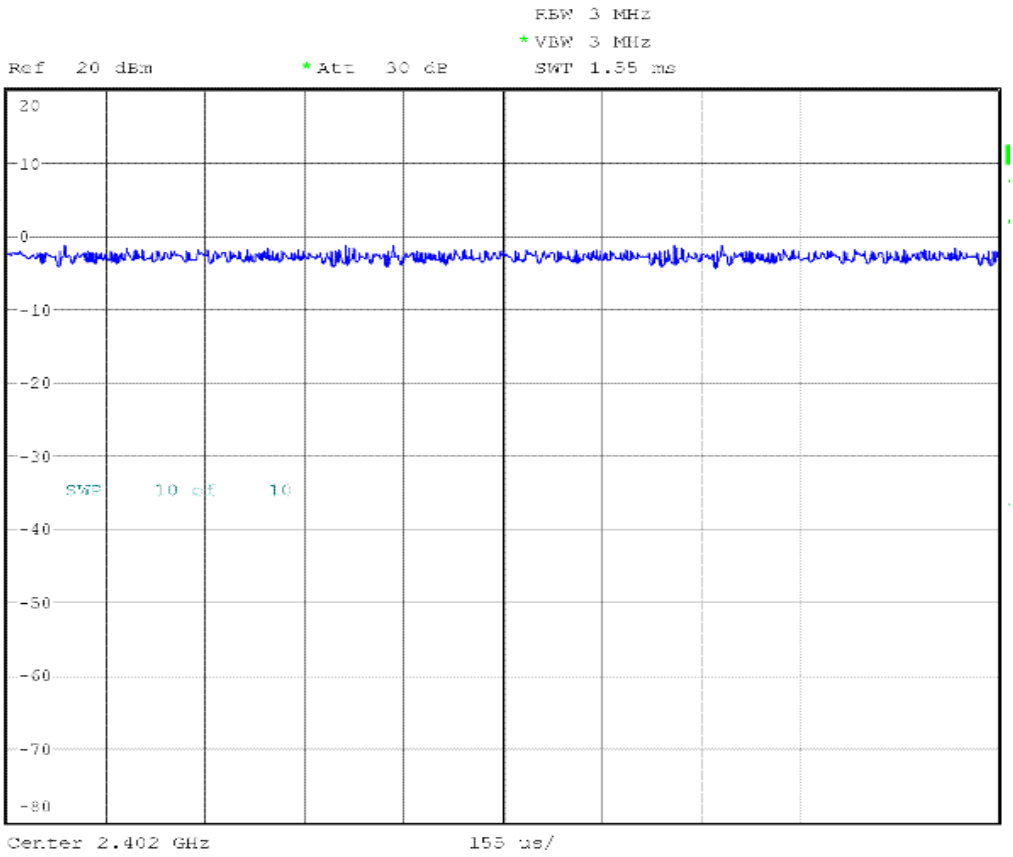
EDR Relative Transmit Power GFSK High Min (2DH5)



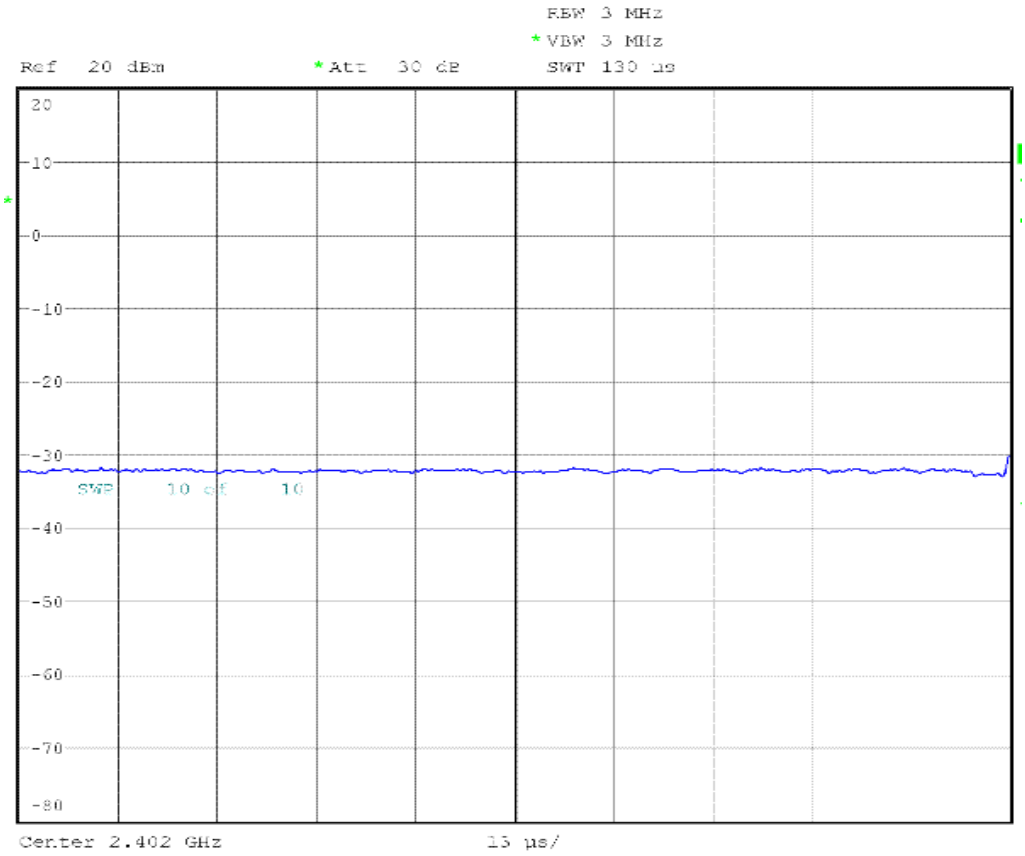
EDR Relative Transmit Power DPSK High Min (2DH5)



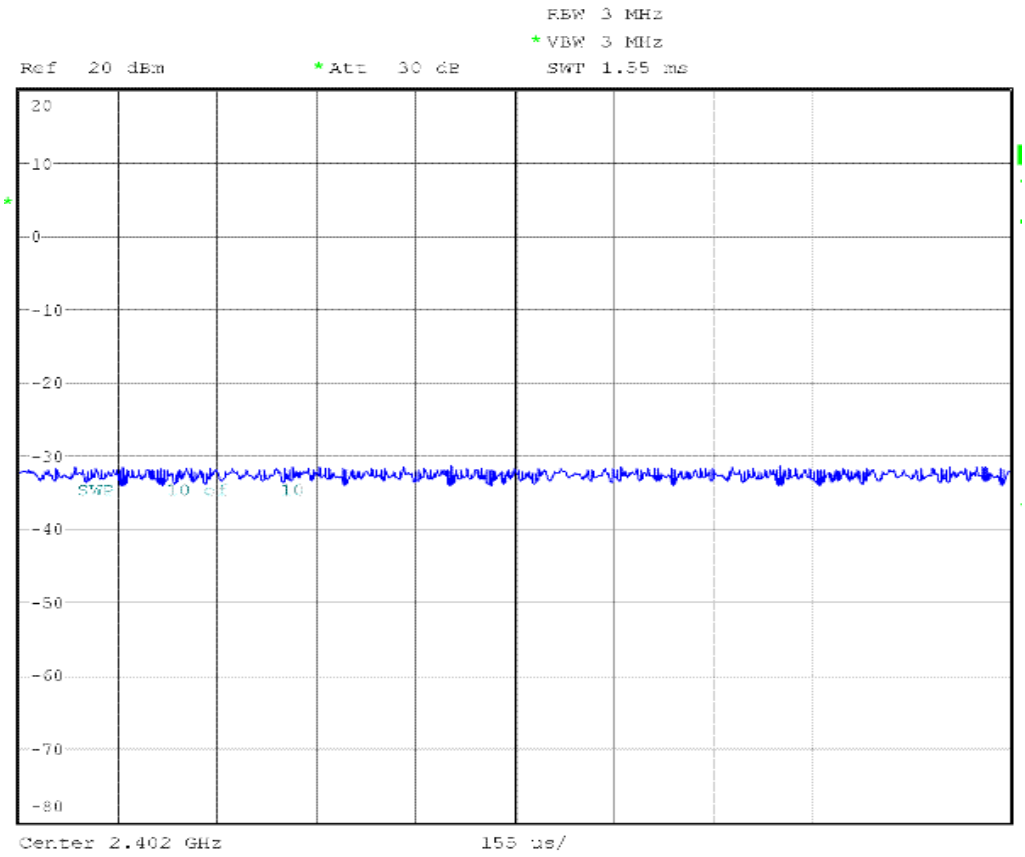
EDR Relative Transmit Power GFSK Low Max (3DH5)



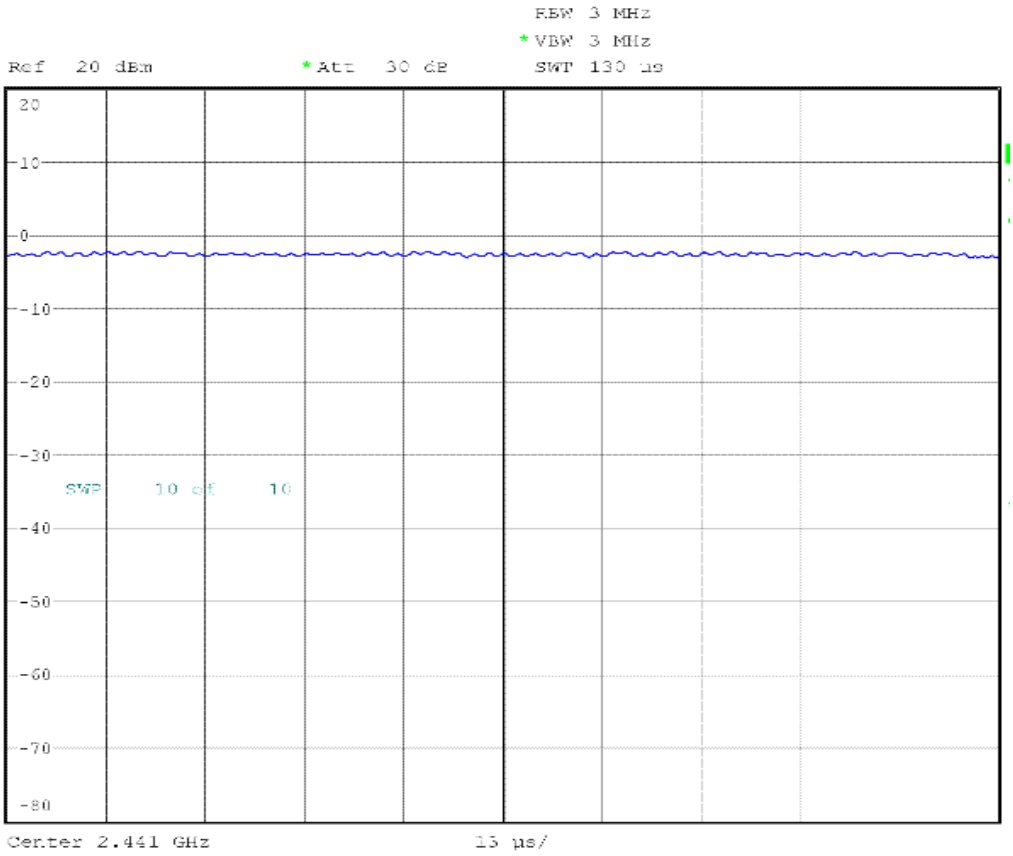
EDR Relative Transmit Power DPSK Low Max (3DH5)



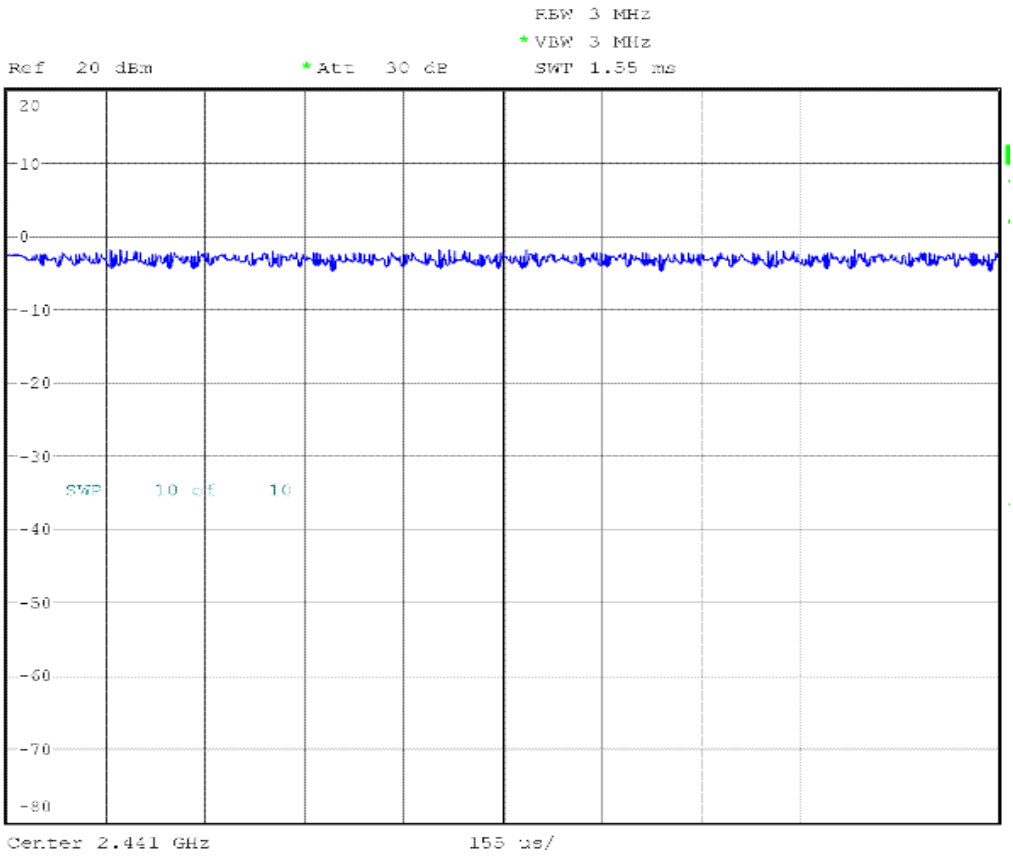
EDR Relative Transmit Power GFSK Low Min (3DH5)



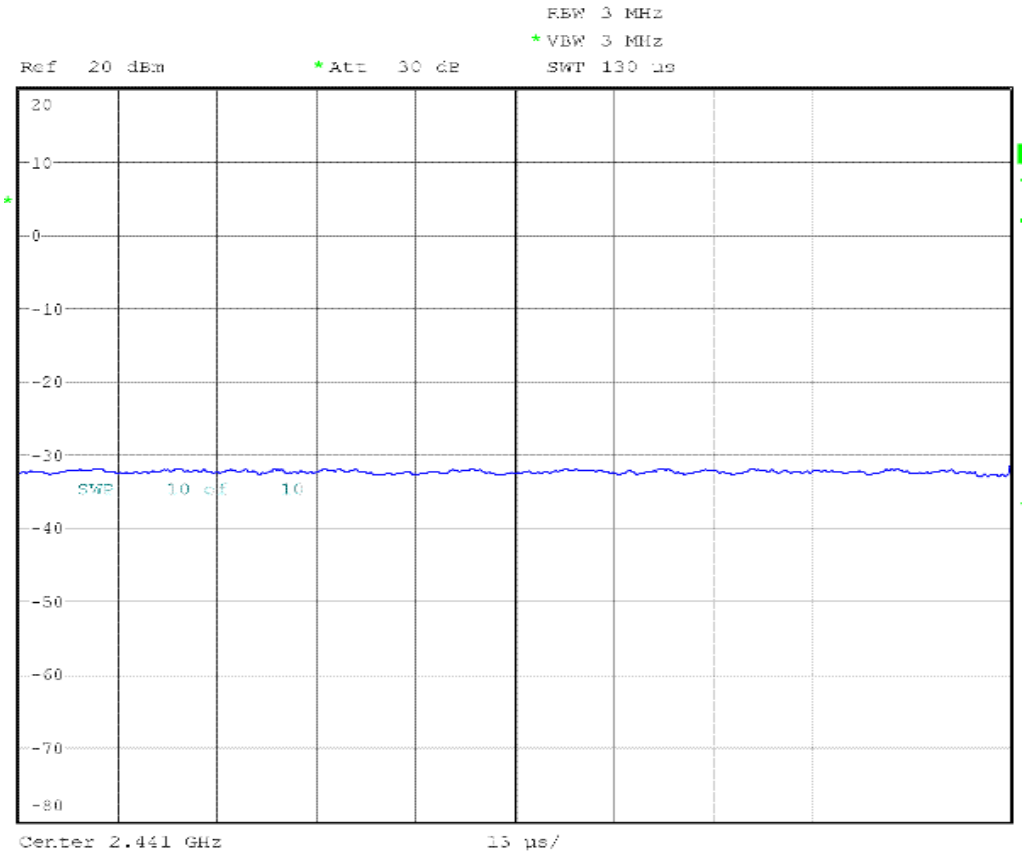
EDR Relative Transmit Power DPSK Low Min (3DH5)



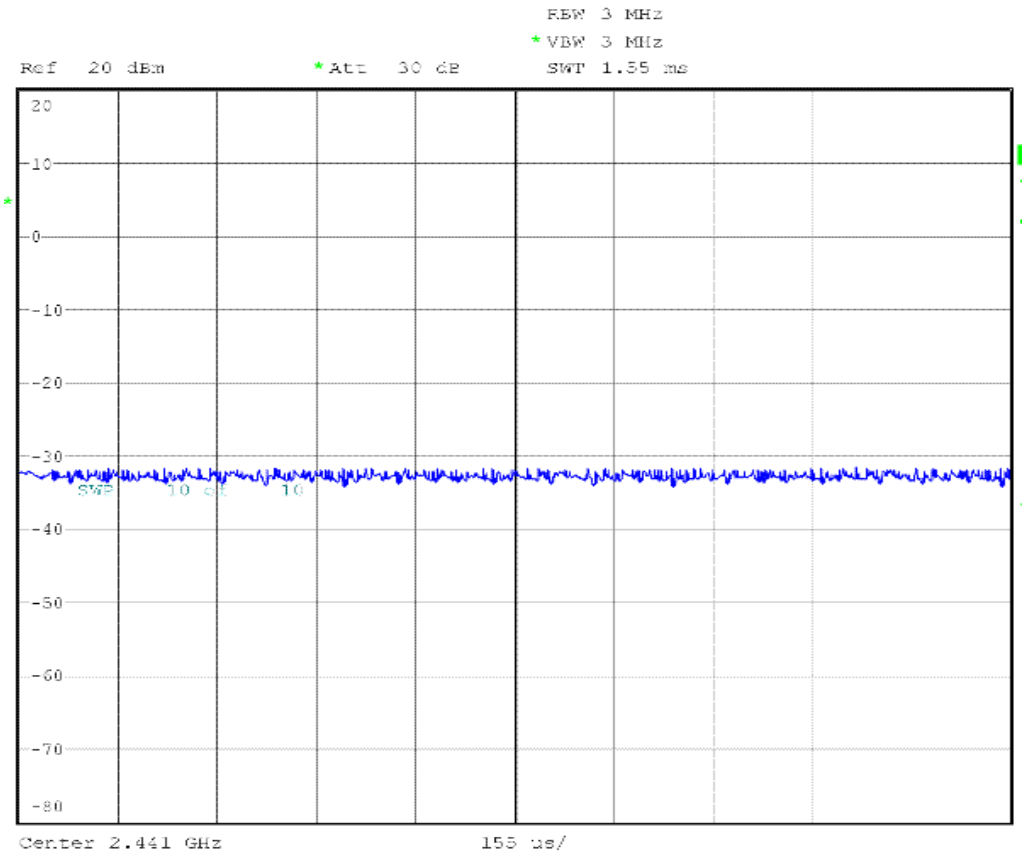
EDR Relative Transmit Power GFSK Mid Max (3DH5)



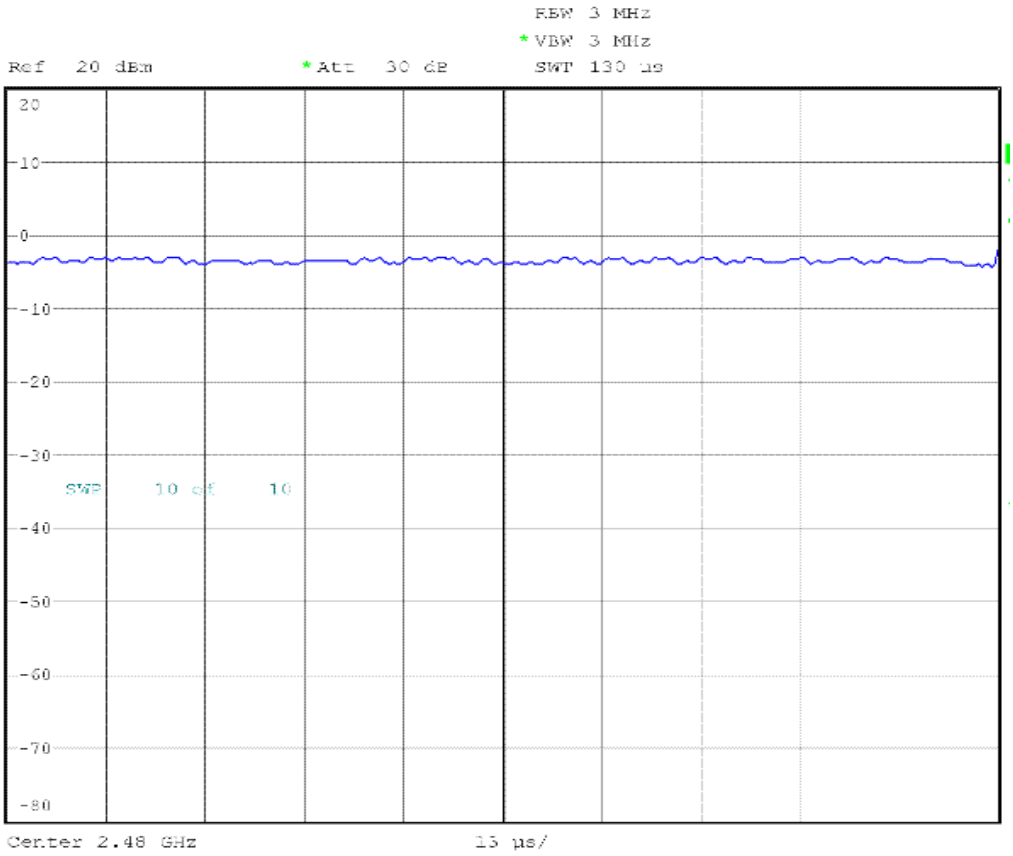
EDR Relative Transmit Power DPSK Mid Max (3DH5)



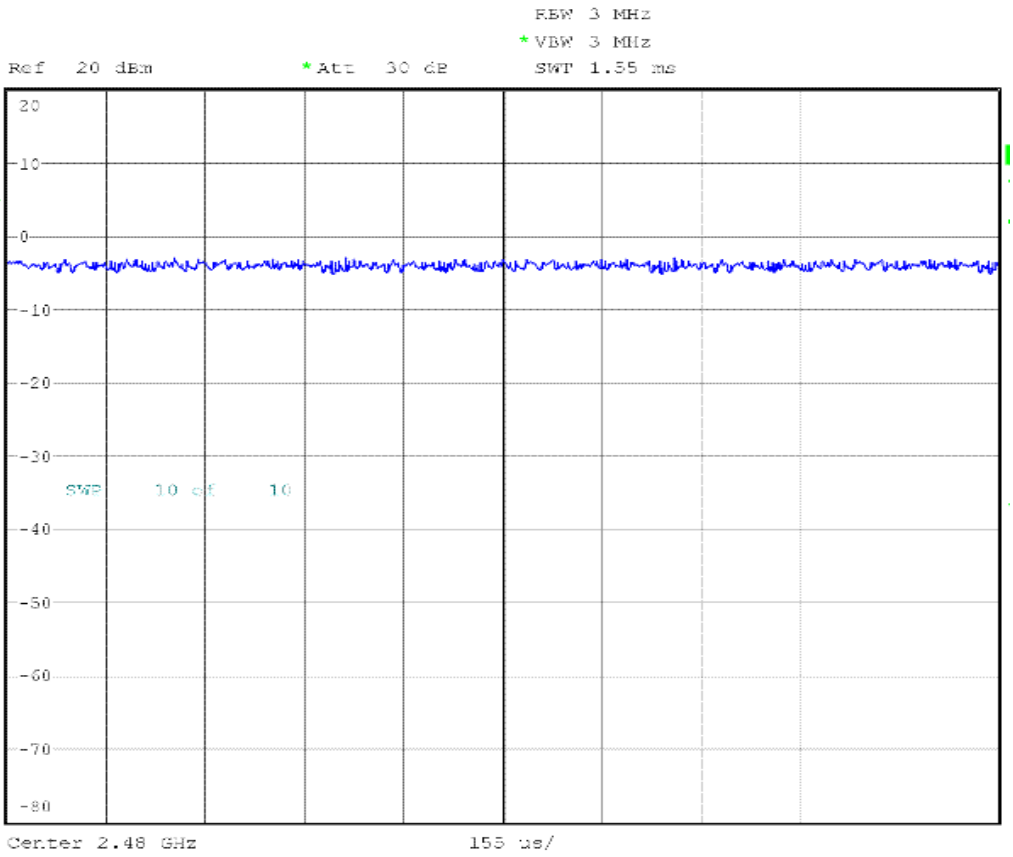
EDR Relative Transmit Power GFSK Mid Min (3DH5)



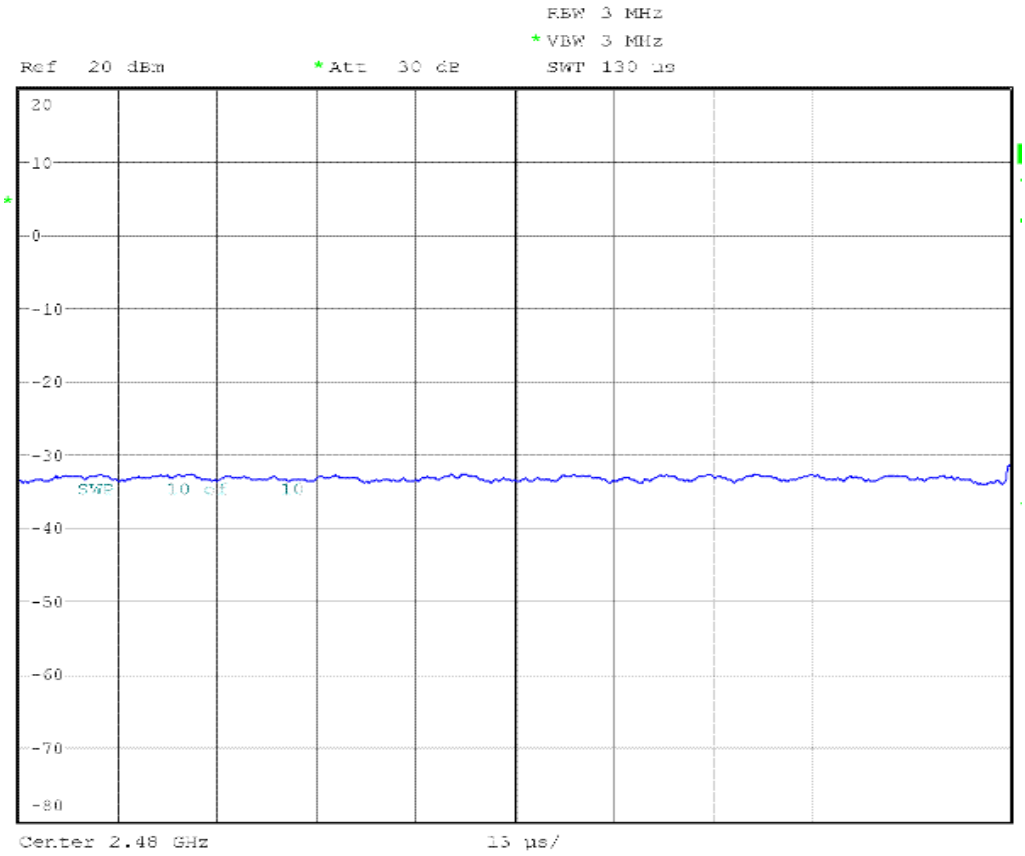
EDR Relative Transmit Power DPSK Mid Min (3DH5)



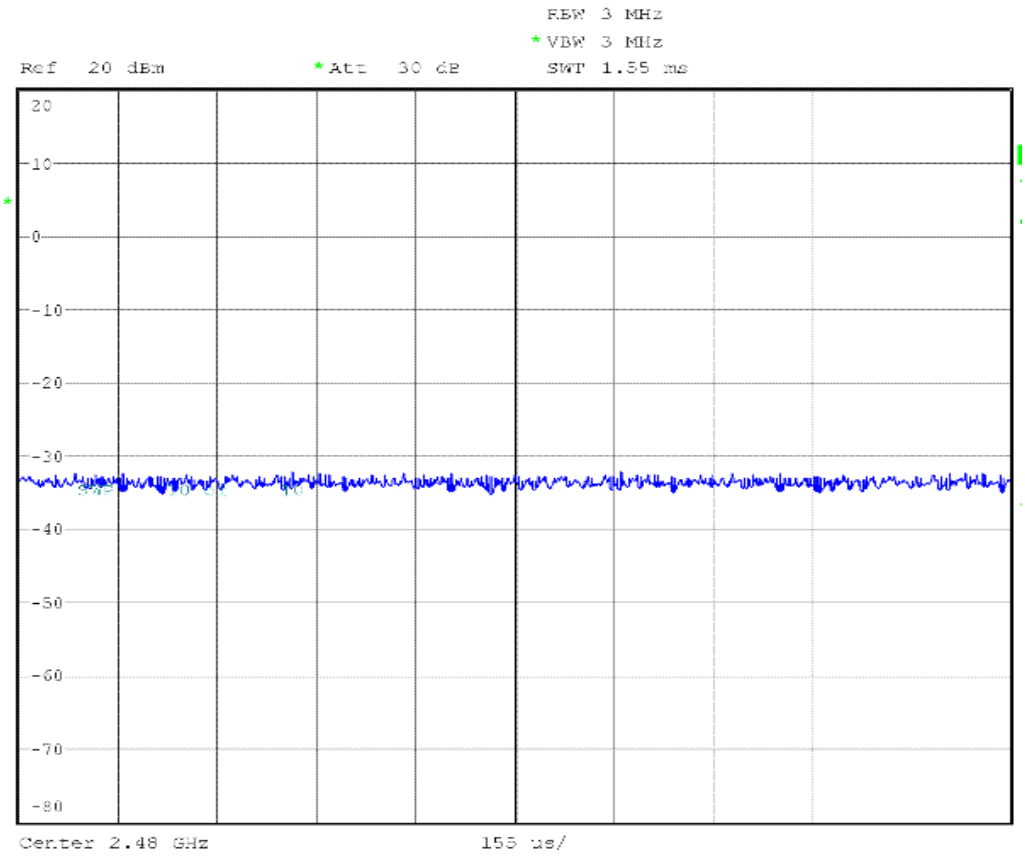
EDR Relative Transmit Power GFSK High Max (3DH5)



EDR Relative Transmit Power DPSK High Max (3DH5)



EDR Relative Transmit Power GFSK High Min (3DH5)



EDR Relative Transmit Power DPSK High Min (3DH5)

3.5.11. Test Case: TRM/CA/11/C - EDR Carrier Frequency Stability and Modulation Accuracy

Expected Outcome:

If the EUT does not support 8DPSK modulation then the outcomes based on this modulation do not apply..

All values as measured must fulfill the following conditions:

1. Carrier frequency stability:
   -75 kHz ≤ ωi ≤ +75 kHz, for all packets
   -75 kHz ≤ (ωi + ω0) ≤ +75 kHz, for all blocks
   -10 kHz ≤ ω0 ≤ +10 kHz, for all blocks
2. RMS DEVM:
   RMS DEVM ≤ 0.20, for all π/4-DQPSK blocks
   RMS DEVM ≤ 0.13, for all 8DPSK blocks
3. Peak DEVM:
   DEVM ≤ 0.35 for all π/4-DQPSK symbols
   DEVM ≤ 0.25 for all 8DPSK symbols
4. 99% DEVM:
   DEVM ≤ 0.30, for 99% of π/4-DQPSK symbols
   DEVM ≤ 0.20, for 99% of 8DPSK symbols

Packet Type:2DH5

Test Frequency	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.13	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Mid operating Frequency (2441MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.14	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
High operating Frequency (2480MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass

	RMS DEVM	0.11	RMS DEVM ≤ 0.2	Pass
	Peak DEVM	0.19	DEVM ≤ 0.35	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Packet Type: 3DH5				
Test Frequency	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.14	DEVM ≤ 0.25	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
Mid operating Frequency (2441MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.07	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.14	DEVM ≤ 0.25	Pass
	DEVM for 99%	100.00 %	Error symbols > 99 %	Pass
High operating Frequency (2480MHz)	ω i (kHz)	0.00	-75 kHz ≤ ωi ≤ +75 kHz	Pass
	(ωi + ω0)(kHz)	0.00	-75 kHz ≤ (ωi + ω0) ≤ +75 kHz	Pass
	ω 0 (kHz)	0.00	-10 kHz ≤ ω0 ≤ +10 kHz	Pass
	RMS DEVM	0.09	RMS DEVM ≤ 0.13	Pass
	Peak DEVM	0.21	DEVM ≤ 0.25	Pass
	DEVM for 99%	99.92 %	Error symbols > 99 %	Pass

3.5.12. Test Case: TRM/CA/13/C - EDR In-Band Spurious Emissions

Expected Outcome:

All values as measured must fulfill the following conditions:

1. PTx-26dB (f) ≤ PTxref -26 dB for |M-N|= 1
2. PTx (f) ≤ – 20 dBm for |M-N| = 2
3. PTx (f) ≤ – 40 dBm for |M-N| ≥ 3.

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency that is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

Packet Type: 2DH5				
Test Frequency (MHz)	Measurement Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
2405	2402	-45.3	≤-40	Pass
2405	2403	-35.98	≤-20	Pass

2405	2404	-34.28	≤ 7.1 -26	Pass
2405	2405	7.1	N/A	N/A
2405	2406	-33.67	≤ 7.1 -26	Pass
2405	2407	-36.52	≤-20	Pass
2405	2408	-44.78	≤-40	Pass
2405	2409	-48.08	≤-40	Pass
2405	2410	-48.7	≤-40	Pass
2405	2411	-48.2	≤-40	Pass
2405	2412	-47.96	≤-40	Pass
2405	2413	-47.67	≤-40	Pass
2405	2414	-47.55	≤-40	Pass
2405	2415	-47.67	≤-40	Pass
2405	2416	-47.21	≤-40	Pass
2405	2417	-46.9	≤-40	Pass
2405	2418	-46.99	≤-40	Pass
2405	2419	-46.96	≤-40	Pass
2405	2420	-47.53	≤-40	Pass
2405	2421	-47.45	≤-40	Pass
2405	2422	-47.44	≤-40	Pass
2405	2423	-47.69	≤-40	Pass
2405	2424	-47.44	≤-40	Pass
2405	2425	-48.2	≤-40	Pass
2405	2426	-48.24	≤-40	Pass
2405	2427	-48.53	≤-40	Pass
2405	2428	-48.53	≤-40	Pass
2405	2429	-49	≤-40	Pass
2405	2430	-49	≤-40	Pass
2405	2431	-48.89	≤-40	Pass
2405	2432	-49.38	≤-40	Pass
2405	2433	-49.77	≤-40	Pass
2405	2434	-50.1	≤-40	Pass
2405	2435	-50.41	≤-40	Pass
2405	2436	-51.08	≤-40	Pass
2405	2437	-51.1	≤-40	Pass
2405	2438	-51.42	≤-40	Pass
2405	2439	-51.66	≤-40	Pass
2405	2440	-52.1	≤-40	Pass
2405	2441	-52.1	≤-40	Pass

2405	2442	-52.54	≤-40	Pass
2405	2443	-52.73	≤-40	Pass
2405	2444	-52.89	≤-40	Pass
2405	2445	-53.42	≤-40	Pass
2405	2446	-54.11	≤-40	Pass
2405	2447	-53.82	≤-40	Pass
2405	2448	-54.08	≤-40	Pass
2405	2449	-54.66	≤-40	Pass
2405	2450	-54.84	≤-40	Pass
2405	2451	-55.33	≤-40	Pass
2405	2452	-55.15	≤-40	Pass
2405	2453	-55.27	≤-40	Pass
2405	2454	-55.74	≤-40	Pass
2405	2455	-56.05	≤-40	Pass
2405	2456	-55.76	≤-40	Pass
2405	2457	-54.26	≤-40	Pass
2405	2458	-56.55	≤-40	Pass
2405	2459	-56.54	≤-40	Pass
2405	2460	-56.94	≤-40	Pass
2405	2461	-57.07	≤-40	Pass
2405	2462	-56.9	≤-40	Pass
2405	2463	-57	≤-40	Pass
2405	2464	-57.04	≤-40	Pass
2405	2465	-57.18	≤-40	Pass
2405	2466	-57.27	≤-40	Pass
2405	2467	-57.16	≤-40	Pass
2405	2468	-57.14	≤-40	Pass
2405	2469	-56.71	≤-40	Pass
2405	2470	-57.6	≤-40	Pass
2405	2471	-57.43	≤-40	Pass
2405	2472	-56.95	≤-40	Pass
2405	2473	-57.21	≤-40	Pass
2405	2474	-57.1	≤-40	Pass
2405	2475	-56.86	≤-40	Pass
2405	2476	-57.35	≤-40	Pass
2405	2477	-56.84	≤-40	Pass
2405	2478	-57.11	≤-40	Pass
2405	2479	-57.04	≤-40	Pass

2405	2480	-57.34	≤-40	Pass
2441	2402	-52.52	≤-40	Pass
2441	2403	-51.94	≤-40	Pass
2441	2404	-51.56	≤-40	Pass
2441	2405	-51.42	≤-40	Pass
2441	2406	-51.25	≤-40	Pass
2441	2407	-50.95	≤-40	Pass
2441	2408	-50.63	≤-40	Pass
2441	2409	-50.22	≤-40	Pass
2441	2410	-49.89	≤-40	Pass
2441	2411	-49.92	≤-40	Pass
2441	2412	-49.6	≤-40	Pass
2441	2413	-49.03	≤-40	Pass
2441	2414	-49.1	≤-40	Pass
2441	2415	-48.77	≤-40	Pass
2441	2416	-48.53	≤-40	Pass
2441	2417	-48.47	≤-40	Pass
2441	2418	-47.99	≤-40	Pass
2441	2419	-47.7	≤-40	Pass
2441	2420	-47.88	≤-40	Pass
2441	2421	-47.88	≤-40	Pass
2441	2422	-47.67	≤-40	Pass
2441	2423	-47.24	≤-40	Pass
2441	2424	-47.54	≤-40	Pass
2441	2425	-47.45	≤-40	Pass
2441	2426	-47.14	≤-40	Pass
2441	2427	-47.05	≤-40	Pass
2441	2428	-47.08	≤-40	Pass
2441	2429	-46.84	≤-40	Pass
2441	2430	-46.92	≤-40	Pass
2441	2431	-47.33	≤-40	Pass
2441	2432	-47.25	≤-40	Pass
2441	2433	-47.96	≤-40	Pass
2441	2434	-48.09	≤-40	Pass
2441	2435	-48.75	≤-40	Pass
2441	2436	-47.92	≤-40	Pass
2441	2437	-47.63	≤-40	Pass
2441	2438	-45.24	≤-40	Pass

2441	2439	-36.25	≤-20	Pass
2441	2440	-35.64	≤ 6.69 -26	Pass
2441	2441	6.69	N/A	N/A
2441	2442	-34.64	≤ 6.69 -26	Pass
2441	2443	-35.29	≤-20	Pass
2441	2444	-45.05	≤-40	Pass
2441	2445	-47.8	≤-40	Pass
2441	2446	-48.14	≤-40	Pass
2441	2447	-48.53	≤-40	Pass
2441	2448	-48.35	≤-40	Pass
2441	2449	-48.24	≤-40	Pass
2441	2450	-47.5	≤-40	Pass
2441	2451	-47.6	≤-40	Pass
2441	2452	-47.55	≤-40	Pass
2441	2453	-47.07	≤-40	Pass
2441	2454	-47.51	≤-40	Pass
2441	2455	-47.49	≤-40	Pass
2441	2456	-47.22	≤-40	Pass
2441	2457	-47.87	≤-40	Pass
2441	2458	-47.57	≤-40	Pass
2441	2459	-47.78	≤-40	Pass
2441	2460	-47.85	≤-40	Pass
2441	2461	-48.38	≤-40	Pass
2441	2462	-48.11	≤-40	Pass
2441	2463	-48.79	≤-40	Pass
2441	2464	-48.83	≤-40	Pass
2441	2465	-48.74	≤-40	Pass
2441	2466	-49.42	≤-40	Pass
2441	2467	-49.21	≤-40	Pass
2441	2468	-49.77	≤-40	Pass
2441	2469	-50.15	≤-40	Pass
2441	2470	-50.22	≤-40	Pass
2441	2471	-50.26	≤-40	Pass
2441	2472	-50.86	≤-40	Pass
2441	2473	-50.93	≤-40	Pass
2441	2474	-51.4	≤-40	Pass
2441	2475	-51.65	≤-40	Pass
2441	2476	-52.14	≤-40	Pass

2441	2477	-52.07	≤-40	Pass
2441	2478	-52.29	≤-40	Pass
2441	2479	-52.95	≤-40	Pass
2441	2480	-53.19	≤-40	Pass
2477	2402	-57.66	≤-40	Pass
2477	2403	-57.74	≤-40	Pass
2477	2404	-57.54	≤-40	Pass
2477	2405	-58	≤-40	Pass
2477	2406	-57.51	≤-40	Pass
2477	2407	-57.48	≤-40	Pass
2477	2408	-57.75	≤-40	Pass
2477	2409	-57.72	≤-40	Pass
2477	2410	-57.2	≤-40	Pass
2477	2411	-57.61	≤-40	Pass
2477	2412	-57.41	≤-40	Pass
2477	2413	-57.63	≤-40	Pass
2477	2414	-57.29	≤-40	Pass
2477	2415	-57.38	≤-40	Pass
2477	2416	-57.39	≤-40	Pass
2477	2417	-57.2	≤-40	Pass
2477	2418	-57.21	≤-40	Pass
2477	2419	-56.98	≤-40	Pass
2477	2420	-56.92	≤-40	Pass
2477	2421	-57.1	≤-40	Pass
2477	2422	-56.82	≤-40	Pass
2477	2423	-56.56	≤-40	Pass
2477	2424	-56.33	≤-40	Pass
2477	2425	-55.89	≤-40	Pass
2477	2426	-55.95	≤-40	Pass
2477	2427	-55.71	≤-40	Pass
2477	2428	-55.67	≤-40	Pass
2477	2429	-55.39	≤-40	Pass
2477	2430	-55.11	≤-40	Pass
2477	2431	-54.81	≤-40	Pass
2477	2432	-54.66	≤-40	Pass
2477	2433	-54.24	≤-40	Pass
2477	2434	-53.91	≤-40	Pass
2477	2435	-53.6	≤-40	Pass

2477	2436	-53.33	≤-40	Pass
2477	2437	-53.46	≤-40	Pass
2477	2438	-52.81	≤-40	Pass
2477	2439	-52.34	≤-40	Pass
2477	2440	-52.13	≤-40	Pass
2477	2441	-52.01	≤-40	Pass
2477	2442	-51.27	≤-40	Pass
2477	2443	-51.28	≤-40	Pass
2477	2444	-50.81	≤-40	Pass
2477	2445	-50.5	≤-40	Pass
2477	2446	-50.27	≤-40	Pass
2477	2447	-49.87	≤-40	Pass
2477	2448	-49.74	≤-40	Pass
2477	2449	-49.45	≤-40	Pass
2477	2450	-49.23	≤-40	Pass
2477	2451	-49.16	≤-40	Pass
2477	2452	-49.04	≤-40	Pass
2477	2453	-48.55	≤-40	Pass
2477	2454	-48.7	≤-40	Pass
2477	2455	-48.22	≤-40	Pass
2477	2456	-47.99	≤-40	Pass
2477	2457	-48.05	≤-40	Pass
2477	2458	-47.76	≤-40	Pass
2477	2459	-47.88	≤-40	Pass
2477	2460	-47.78	≤-40	Pass
2477	2461	-47.92	≤-40	Pass
2477	2462	-47.56	≤-40	Pass
2477	2463	-47.48	≤-40	Pass
2477	2464	-47.59	≤-40	Pass
2477	2465	-47.44	≤-40	Pass
2477	2466	-47.56	≤-40	Pass
2477	2467	-47.46	≤-40	Pass
2477	2468	-47.73	≤-40	Pass
2477	2469	-48.31	≤-40	Pass
2477	2470	-48.34	≤-40	Pass
2477	2471	-48.94	≤-40	Pass
2477	2472	-48.91	≤-40	Pass
2477	2473	-48.17	≤-40	Pass

2477	2474	-45.79	≤-40	Pass
2477	2475	-37.72	≤-20	Pass
2477	2476	-34.59	≤ 5.92 -26	Pass
2477	2477	5.92	N/A	N/A
2477	2478	-34.16	≤ 5.92 -26	Pass
2477	2479	-36.5	≤-20	Pass
2477	2480	-45.87	≤-40	Pass
Packet Type: 3DH5				
Test Frequency (MHz)	Measurement Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
2405	2402	-43.74	≤-40	Pass
2405	2403	-36.32	≤-20	Pass
2405	2404	-33.93	≤ 7.25 -26	Pass
2405	2405	7.25	N/A	N/A
2405	2406	-32.24	≤ 7.25 -26	Pass
2405	2407	-35.57	≤-20	Pass
2405	2408	-44.05	≤-40	Pass
2405	2409	-46.65	≤-40	Pass
2405	2410	-47.62	≤-40	Pass
2405	2411	-47.79	≤-40	Pass
2405	2412	-47.61	≤-40	Pass
2405	2413	-47.68	≤-40	Pass
2405	2414	-47.18	≤-40	Pass
2405	2415	-47.31	≤-40	Pass
2405	2416	-47.27	≤-40	Pass
2405	2417	-47.04	≤-40	Pass
2405	2418	-47.25	≤-40	Pass
2405	2419	-46.92	≤-40	Pass
2405	2420	-47.11	≤-40	Pass
2405	2421	-47.59	≤-40	Pass
2405	2422	-47.38	≤-40	Pass
2405	2423	-47.56	≤-40	Pass
2405	2424	-47.1	≤-40	Pass
2405	2425	-47.35	≤-40	Pass
2405	2426	-47.89	≤-40	Pass
2405	2427	-47.86	≤-40	Pass
2405	2428	-48.43	≤-40	Pass
2405	2429	-48.68	≤-40	Pass

2405	2430	-48.85	≤-40	Pass
2405	2431	-48.8	≤-40	Pass
2405	2432	-49.79	≤-40	Pass
2405	2433	-49.06	≤-40	Pass
2405	2434	-49.66	≤-40	Pass
2405	2435	-49.9	≤-40	Pass
2405	2436	-50.65	≤-40	Pass
2405	2437	-50.71	≤-40	Pass
2405	2438	-51.14	≤-40	Pass
2405	2439	-50.92	≤-40	Pass
2405	2440	-51.8	≤-40	Pass
2405	2441	-52.12	≤-40	Pass
2405	2442	-52.19	≤-40	Pass
2405	2443	-53.1	≤-40	Pass
2405	2444	-52.78	≤-40	Pass
2405	2445	-53.27	≤-40	Pass
2405	2446	-53.58	≤-40	Pass
2405	2447	-53.88	≤-40	Pass
2405	2448	-54.19	≤-40	Pass
2405	2449	-54.71	≤-40	Pass
2405	2450	-54.49	≤-40	Pass
2405	2451	-55.16	≤-40	Pass
2405	2452	-54.96	≤-40	Pass
2405	2453	-55.07	≤-40	Pass
2405	2454	-55.87	≤-40	Pass
2405	2455	-55.93	≤-40	Pass
2405	2456	-56.28	≤-40	Pass
2405	2457	-53.81	≤-40	Pass
2405	2458	-56.26	≤-40	Pass
2405	2459	-56.48	≤-40	Pass
2405	2460	-56.79	≤-40	Pass
2405	2461	-56.8	≤-40	Pass
2405	2462	-56.63	≤-40	Pass
2405	2463	-56.97	≤-40	Pass
2405	2464	-57.21	≤-40	Pass
2405	2465	-57.07	≤-40	Pass
2405	2466	-57.09	≤-40	Pass
2405	2467	-56.91	≤-40	Pass

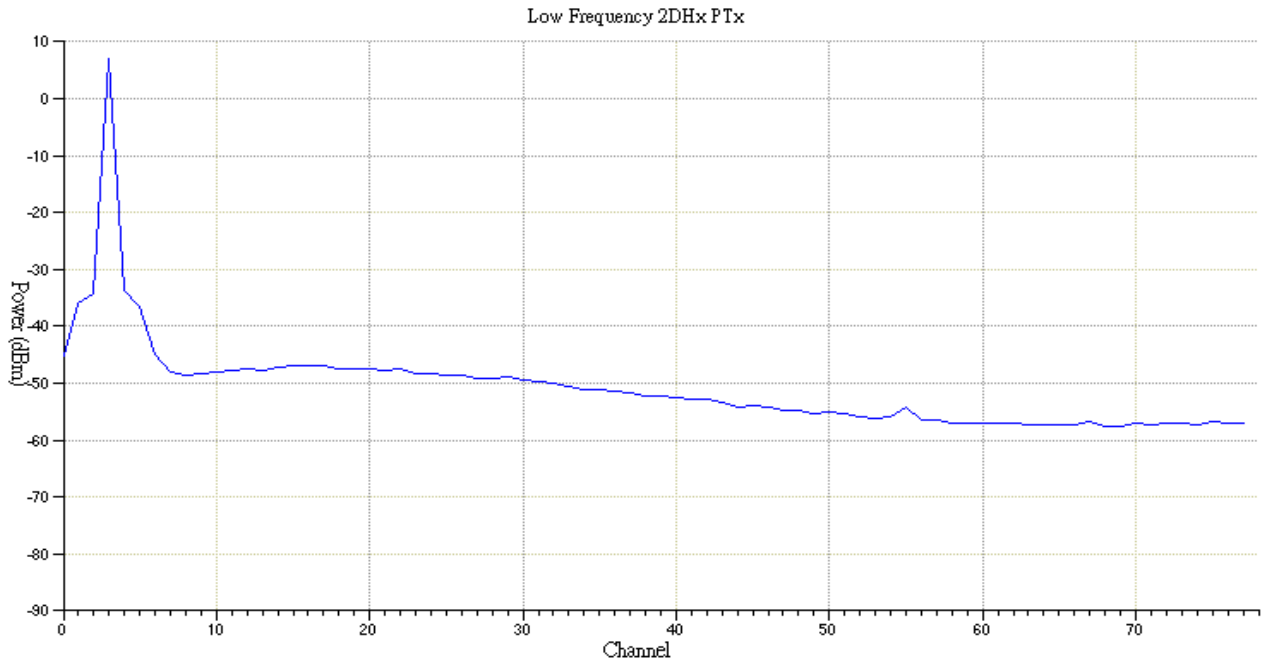
2405	2468	-57.22	≤-40	Pass
2405	2469	-57.17	≤-40	Pass
2405	2470	-57.04	≤-40	Pass
2405	2471	-57.25	≤-40	Pass
2405	2472	-57.35	≤-40	Pass
2405	2473	-57.21	≤-40	Pass
2405	2474	-57.26	≤-40	Pass
2405	2475	-57.57	≤-40	Pass
2405	2476	-57.34	≤-40	Pass
2405	2477	-57.07	≤-40	Pass
2405	2478	-57.16	≤-40	Pass
2405	2479	-57.17	≤-40	Pass
2405	2480	-57.36	≤-40	Pass
2441	2402	-52.02	≤-40	Pass
2441	2403	-51.83	≤-40	Pass
2441	2404	-51.85	≤-40	Pass
2441	2405	-51.45	≤-40	Pass
2441	2406	-50.57	≤-40	Pass
2441	2407	-50.62	≤-40	Pass
2441	2408	-50.6	≤-40	Pass
2441	2409	-50.22	≤-40	Pass
2441	2410	-49.91	≤-40	Pass
2441	2411	-49.59	≤-40	Pass
2441	2412	-49.55	≤-40	Pass
2441	2413	-48.94	≤-40	Pass
2441	2414	-48.6	≤-40	Pass
2441	2415	-48.74	≤-40	Pass
2441	2416	-48.59	≤-40	Pass
2441	2417	-48.23	≤-40	Pass
2441	2418	-47.96	≤-40	Pass
2441	2419	-47.41	≤-40	Pass
2441	2420	-47.4	≤-40	Pass
2441	2421	-47.73	≤-40	Pass
2441	2422	-47.84	≤-40	Pass
2441	2423	-47.29	≤-40	Pass
2441	2424	-47.32	≤-40	Pass
2441	2425	-47.2	≤-40	Pass
2441	2426	-46.99	≤-40	Pass

2441	2427	-47.07	≤-40	Pass
2441	2428	-47.1	≤-40	Pass
2441	2429	-46.76	≤-40	Pass
2441	2430	-46.97	≤-40	Pass
2441	2431	-46.67	≤-40	Pass
2441	2432	-47.47	≤-40	Pass
2441	2433	-47.75	≤-40	Pass
2441	2434	-47.65	≤-40	Pass
2441	2435	-47.85	≤-40	Pass
2441	2436	-47.53	≤-40	Pass
2441	2437	-46.85	≤-40	Pass
2441	2438	-43.7	≤-40	Pass
2441	2439	-36.54	≤-20	Pass
2441	2440	-36.45	≤ 6.88 -26	Pass
2441	2441	6.88	N/A	N/A
2441	2442	-34.61	≤ 6.88 -26	Pass
2441	2443	-34.51	≤-20	Pass
2441	2444	-44.47	≤-40	Pass
2441	2445	-46.57	≤-40	Pass
2441	2446	-46.87	≤-40	Pass
2441	2447	-48.04	≤-40	Pass
2441	2448	-48.07	≤-40	Pass
2441	2449	-47.97	≤-40	Pass
2441	2450	-47.71	≤-40	Pass
2441	2451	-47.66	≤-40	Pass
2441	2452	-47.22	≤-40	Pass
2441	2453	-47.11	≤-40	Pass
2441	2454	-47.4	≤-40	Pass
2441	2455	-47.45	≤-40	Pass
2441	2456	-47.47	≤-40	Pass
2441	2457	-47.57	≤-40	Pass
2441	2458	-47.55	≤-40	Pass
2441	2459	-48.18	≤-40	Pass
2441	2460	-47.55	≤-40	Pass
2441	2461	-48.26	≤-40	Pass
2441	2462	-48.01	≤-40	Pass
2441	2463	-48.31	≤-40	Pass
2441	2464	-48.66	≤-40	Pass

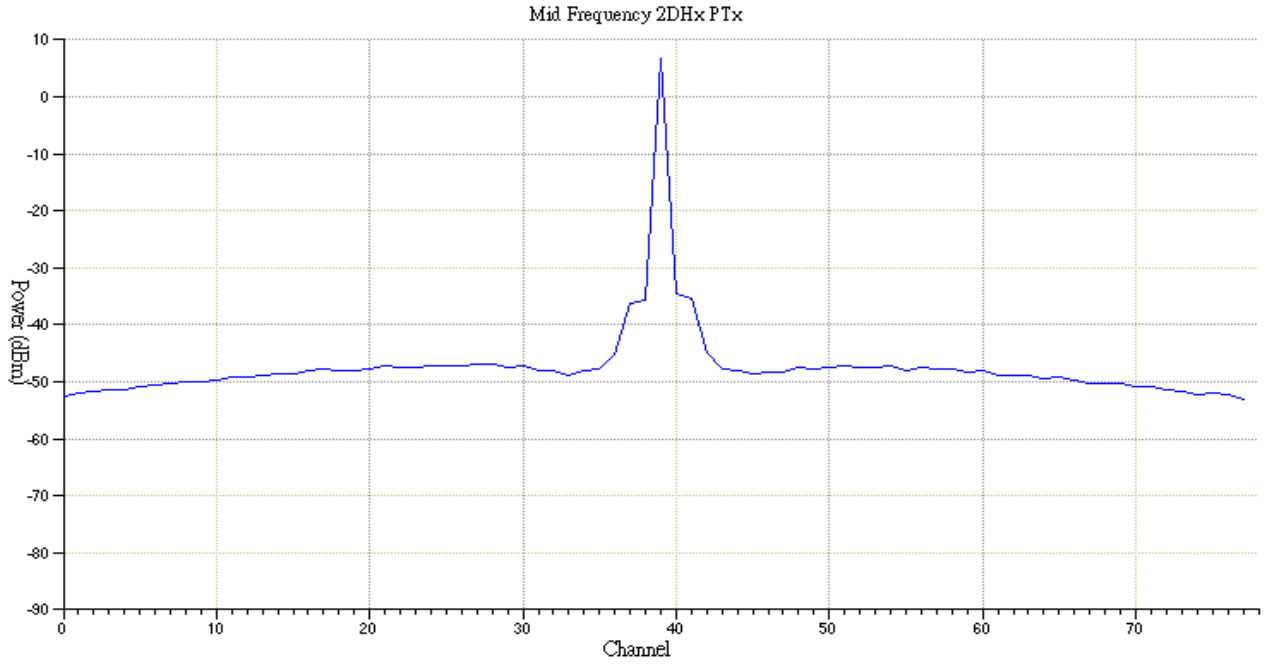
2441	2465	-49.1	≤-40	Pass
2441	2466	-48.81	≤-40	Pass
2441	2467	-49.48	≤-40	Pass
2441	2468	-49.59	≤-40	Pass
2441	2469	-49.74	≤-40	Pass
2441	2470	-50.23	≤-40	Pass
2441	2471	-50.28	≤-40	Pass
2441	2472	-50.76	≤-40	Pass
2441	2473	-51.31	≤-40	Pass
2441	2474	-51.64	≤-40	Pass
2441	2475	-51.71	≤-40	Pass
2441	2476	-51.92	≤-40	Pass
2441	2477	-52.4	≤-40	Pass
2441	2478	-52.45	≤-40	Pass
2441	2479	-52.99	≤-40	Pass
2441	2480	-53.18	≤-40	Pass
2477	2402	-57.86	≤-40	Pass
2477	2403	-57.38	≤-40	Pass
2477	2404	-57.39	≤-40	Pass
2477	2405	-57.33	≤-40	Pass
2477	2406	-57.79	≤-40	Pass
2477	2407	-57.63	≤-40	Pass
2477	2408	-56.8	≤-40	Pass
2477	2409	-57.51	≤-40	Pass
2477	2410	-57.27	≤-40	Pass
2477	2411	-57.27	≤-40	Pass
2477	2412	-57.42	≤-40	Pass
2477	2413	-57.57	≤-40	Pass
2477	2414	-57.2	≤-40	Pass
2477	2415	-57.2	≤-40	Pass
2477	2416	-57.4	≤-40	Pass
2477	2417	-57.45	≤-40	Pass
2477	2418	-56.9	≤-40	Pass
2477	2419	-57.36	≤-40	Pass
2477	2420	-57.08	≤-40	Pass
2477	2421	-56.85	≤-40	Pass
2477	2422	-56.65	≤-40	Pass
2477	2423	-56.47	≤-40	Pass

2477	2424	-56.24	≤-40	Pass
2477	2425	-55.8	≤-40	Pass
2477	2426	-56.24	≤-40	Pass
2477	2427	-55.89	≤-40	Pass
2477	2428	-55.65	≤-40	Pass
2477	2429	-55.21	≤-40	Pass
2477	2430	-54.87	≤-40	Pass
2477	2431	-54.77	≤-40	Pass
2477	2432	-54.69	≤-40	Pass
2477	2433	-54.36	≤-40	Pass
2477	2434	-53.85	≤-40	Pass
2477	2435	-53.71	≤-40	Pass
2477	2436	-53.47	≤-40	Pass
2477	2437	-53.01	≤-40	Pass
2477	2438	-52.55	≤-40	Pass
2477	2439	-52.23	≤-40	Pass
2477	2440	-52.4	≤-40	Pass
2477	2441	-51.84	≤-40	Pass
2477	2442	-51.39	≤-40	Pass
2477	2443	-50.9	≤-40	Pass
2477	2444	-51.01	≤-40	Pass
2477	2445	-50.77	≤-40	Pass
2477	2446	-50.35	≤-40	Pass
2477	2447	-50.08	≤-40	Pass
2477	2448	-50.01	≤-40	Pass
2477	2449	-49.39	≤-40	Pass
2477	2450	-49.24	≤-40	Pass
2477	2451	-49.33	≤-40	Pass
2477	2452	-49.03	≤-40	Pass
2477	2453	-48.72	≤-40	Pass
2477	2454	-48.34	≤-40	Pass
2477	2455	-47.93	≤-40	Pass
2477	2456	-47.58	≤-40	Pass
2477	2457	-48.19	≤-40	Pass
2477	2458	-48	≤-40	Pass
2477	2459	-47.86	≤-40	Pass
2477	2460	-47.72	≤-40	Pass
2477	2461	-47.81	≤-40	Pass

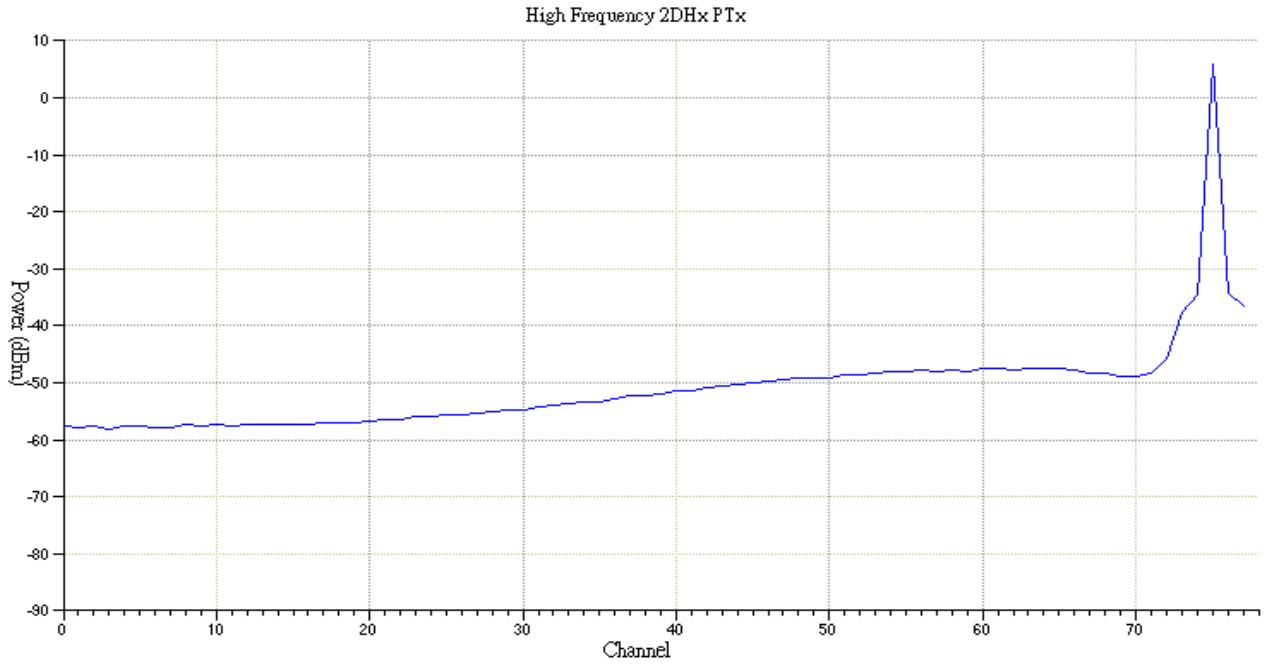
2477	2462	-47.25	≤-40	Pass
2477	2463	-47.33	≤-40	Pass
2477	2464	-47.24	≤-40	Pass
2477	2465	-47.27	≤-40	Pass
2477	2466	-47.27	≤-40	Pass
2477	2467	-47.39	≤-40	Pass
2477	2468	-47.72	≤-40	Pass
2477	2469	-48.43	≤-40	Pass
2477	2470	-48.34	≤-40	Pass
2477	2471	-48.25	≤-40	Pass
2477	2472	-48.55	≤-40	Pass
2477	2473	-47.36	≤-40	Pass
2477	2474	-44.15	≤-40	Pass
2477	2475	-38.27	≤-20	Pass
2477	2476	-36.52	≤ 6.23 -26	Pass
2477	2477	6.23	N/A	N/A
2477	2478	-35.09	≤ 6.23 -26	Pass
2477	2479	-36.36	≤-20	Pass
2477	2480	-45.16	≤-40	Pass



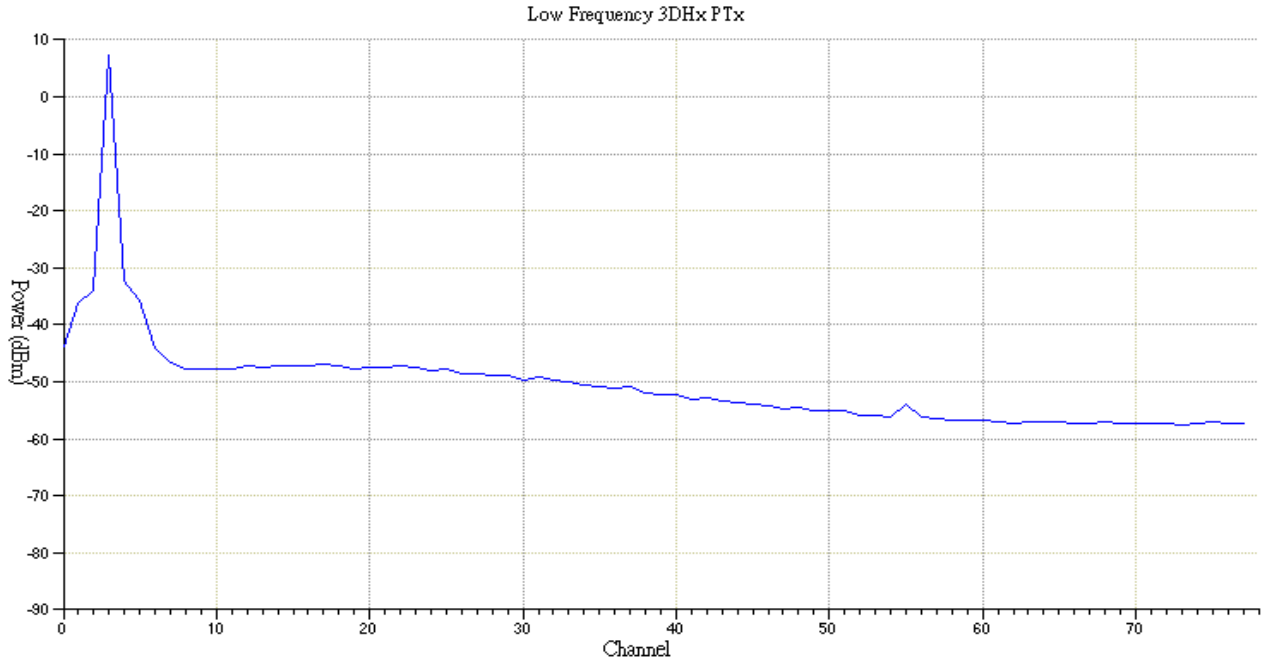
EDR In Band Spurious Emissions - 2DH5 Low



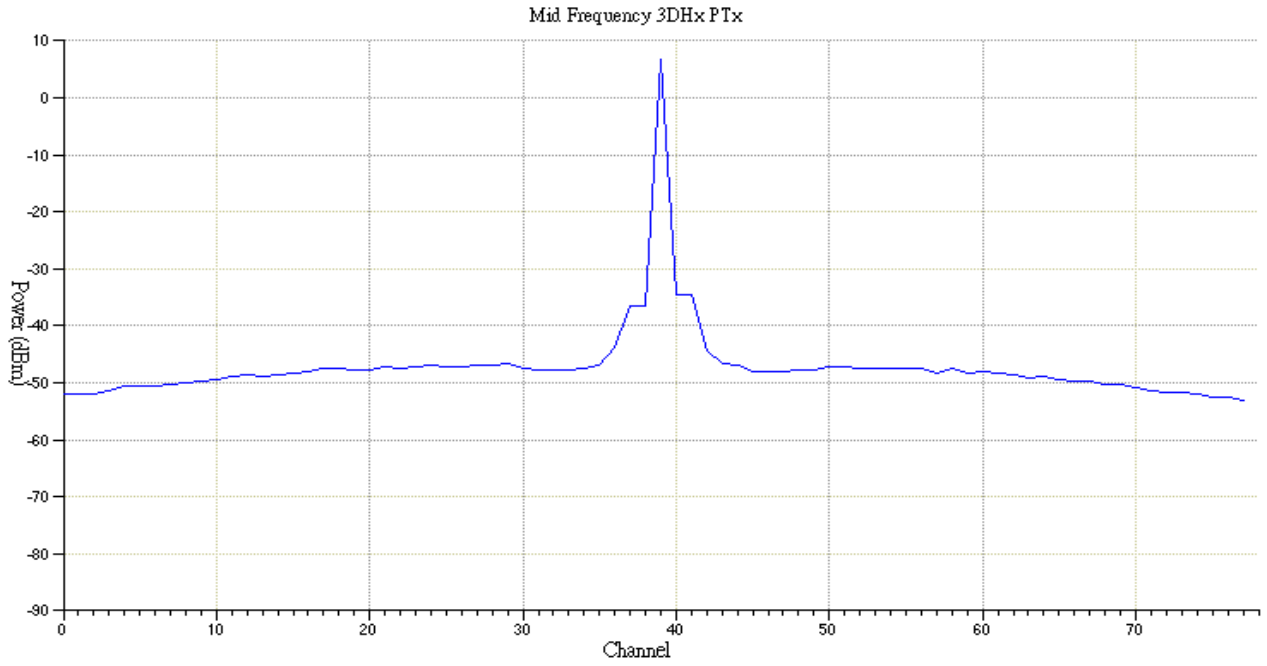
EDR In Band Spurious Emissions - 2DH5 Mid



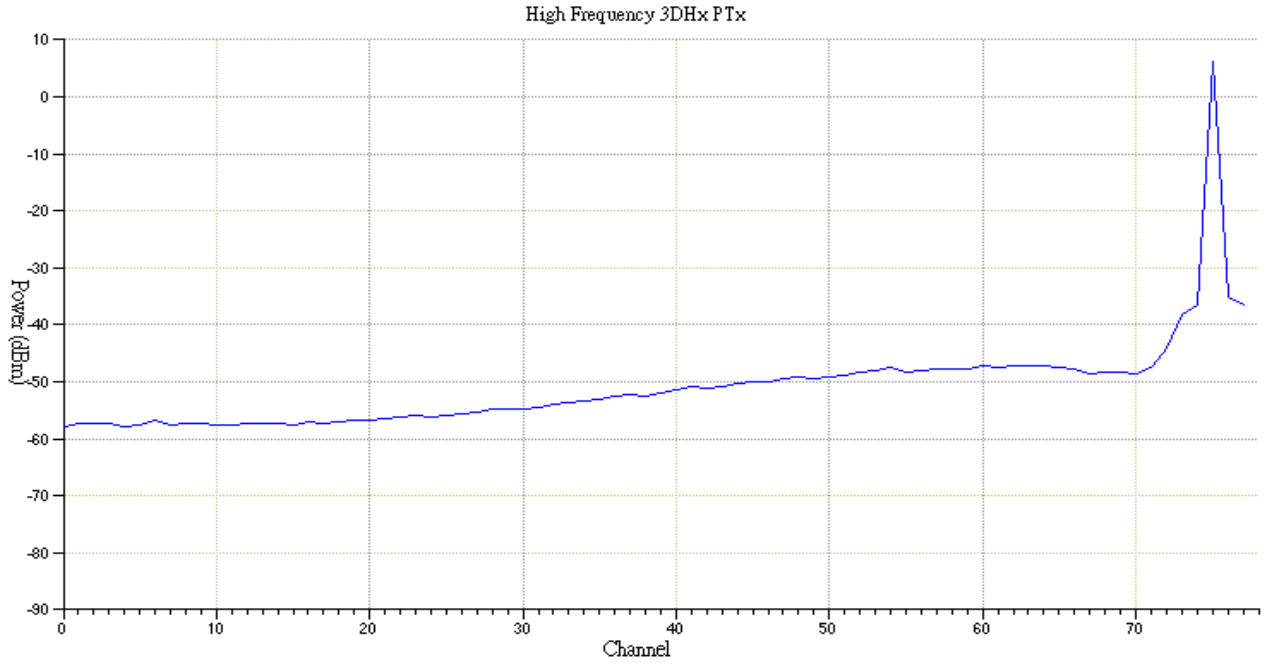
EDR In Band Spurious Emissions - 2DH5 High



EDR_In_Band_Spurious_Emissions - 3DH5 Low



EDR In Band Spurious Emissions - 3DH5 Mid



EDR In Band Spurious Emissions - 3DH5 High

3.5.13. Test Case: RCV/CA/01/C - Sensitivity - Single Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

3.5.14. Test Case: RCV/CA/02/C - Sensitivity - Multi-Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

3.5.15. Test Case: RCV/CA/07/C - EDR Sensitivity

Expected Outcome:

All values as measured must fulfill the following conditions at low, medium and high frequencies:

1.Either BER < 0.007% after 1,600,000 bits or BER < 0.01% after 16,000,000 bit

Packet Type	Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2DH5	2402	0	≤0.007	Pass
	2441	0	≤0.007	Pass
	2480	0	≤0.007	Pass
3DH5	2402	0	≤0.007	Pass
	2441	0	≤0.007	Pass
	2480	0	≤0.007	Pass

Appendix: Test Data

Test Data for RF Testing： Test Evidence for RF Test.zip

Part B

Profile Interoperability Test Report

Product Name：Bluetooth imager scanner

Signature

The below listed HYPER Taiwan Technology Inc.

Date ： 2010/02/11

Test Engineer： Michael Peng Reviewed/Approved by： Paul Lee

Table of Content

1. Implementation Conformance Statement

1.1. Interoperability Test Specification (IOP)

Interoperability Test Specification

Item	Capability	Status	Support
1	Interoperability	M	Yes

1.2. Human Interface Device (HID)

Roles

Item	Capability	Status	Support
1	Host, Report protocol	O.1	No
2	HID Role	O.1	Yes
3	Host, Boot protocol	O.1	No

Host Application Procedures

Item	Capability	Status	Support
1	Establish HID connection	M.1	No
2	Accept HID connection	M.1	No
3	Terminate HID connection	M.1	No
4	Accept Termination of HID connection	M.1	No
5	Support for virtual cables	M.1	No
6	HID initiated reconnection	M.1	No
7	Host initiated reconnection	M.1	No
8	Host data transfer to HID	C.1	No
9	HID data transfer to Host	C.1	No
10	HID Boot mode data transfer to Host	C.2	No
11	Host Boot mode data transfer to HID	C.2	No
12	Support for Application to send GET_Report	O	No
13	Support for Application to send SET_REPORT	O	No

Device to Host Transfers

Item	Capability	Status	Support
1	Data reports larger than host MTU on Control channel	C.1	No
2	Data reports larger than host MTU on Interrupt channel	C.1	No
3	Data reports to host	C.1	No
4	Boot mode reports to host	C.2	No

Host to Device Transfers

Item	Capability	Status	Support
1	Data reports larger than device MTU on Control channel	C.1	No
2	Data reports larger than device MTU on Interrupt channel	C.1	No
3	Data reports to device	C.2	No
4	Boot mode reports to device	O	No

HID Control Commands

Item	Capability	Status	Support
1	Set_Protocol command	C.1	No
2	Get_Protocol command	C.1	No
3	Set_Idle command	O	No
4	Get_Idle command	O	No
5	Set_Report command	M.1	No
6	Get_Report command	M.1	No

Host Link Manager Procedures

Item	Capability	Status	Support
1	Initiate Authentication before connection completed	C.1	No
2	Initiate Authentication after connection completed	C.1	No
3	Initiate pairing before connection completed	C.2	No
4	Initiate pairing after connection completed	C.2	No
5	Encryption	O	No
6	Initiate encryption	C.3	No

Item	Capability	Status	Support
7	Accept encryption requests	C.3	No
8	Role switch (Master/Slave)	M.1	No
9	Request Master Slave switch	M.1	No
10	Accept Master Slave switch requests	M.1	No
11	Hold Mode	O	No
12	Sniff mode	M.1	No
13	Park mode	O	No

Host Link Control Requirements

Item	Capability	Status	Support
1	Supports inquiry, 79 channel	M.1	No
2	Supports inquiry scan, 79 channel	X	No

HID Device Roles

Item	Capability	Status	Support
1	Pointing HID	O.1	No
2	Keyboard HID	O.1	Yes
3	Identification HID	O.1	No
4	Other HID	O.1	No

HID Application Procedures

Item	Capability	Status	Support
1	Establish HID connection	O	No
2	Accept HID connection	M.1	Yes
3	Terminate HID connection	O	Yes
4	Accept Termination of HID connection	M.1	Yes
5	Support for virtual cables	O	Yes
6	HID initiated reconnection	C.1	Yes
7	Host initiated reconnection	C.1	Yes
8	Host data transfer to HID	C.2	Yes
9	HID data transfer to Host	C.2	Yes
10	HID Boot ode data transfer to Host	C.3	Yes
11	Host Boot mode data transfer to HID	C.4	Yes
12	Output reports declared	C.4	Yes
13	Input reports declared	C.3	Yes
14	Feature reports declared	O	No

Device to Host Transfers

Item	Capability	Status	Support
1	Data reports larger than host MTU on Control channel	O	No
2	Data reports larger than host MTU on Interrupt channel	O	No
3	Data reports to host	O	No
4	Boot mode reports to host	C.1	Yes

Host to Device Transfers

Item	Capability	Status	Support
1	Data reports larger than device MTU on Control channel	O	No
2	Data reports larger than device MTU on Interrupt channel	O	No
3	Data reports to device	O	No
4	Boot mode reports to device	C.1	Yes

HID Control Commands

Item	Capability	Status	Support
1	Set_Protocol command	C.1	Yes
2	Get_Protocol command	C.1	Yes
3	Set_Idle command	C.2	Yes

Item	Capability	Status	Support
4	Get_Idle command	C.2	Yes
5	Set_Report command	C.3	Yes
6	Get_Report command	C.4	Yes

HID Link Manager Procedures

Item	Capability	Status	Support
1	Initiate Authentication before connection completed	O	No
2	Initiate Authentication after connection	O	No
3	Initiate pairing before connection completed	X	No
4	Initiate pairing after connection completed	X	No
5	Encryption	C.1	Yes
6	Initiate encryption	O	Yes
7	Accept encryption requests	C.2	Yes
8	Role switch (Master/Slave)	C.3	Yes
9	Request Master Slave switch	O	No
10	Accept Master Slave switch requests	C.3	Yes
11	Hold mode	O	No
12	Sniff mode	O	Yes
13	Park mode	O	No

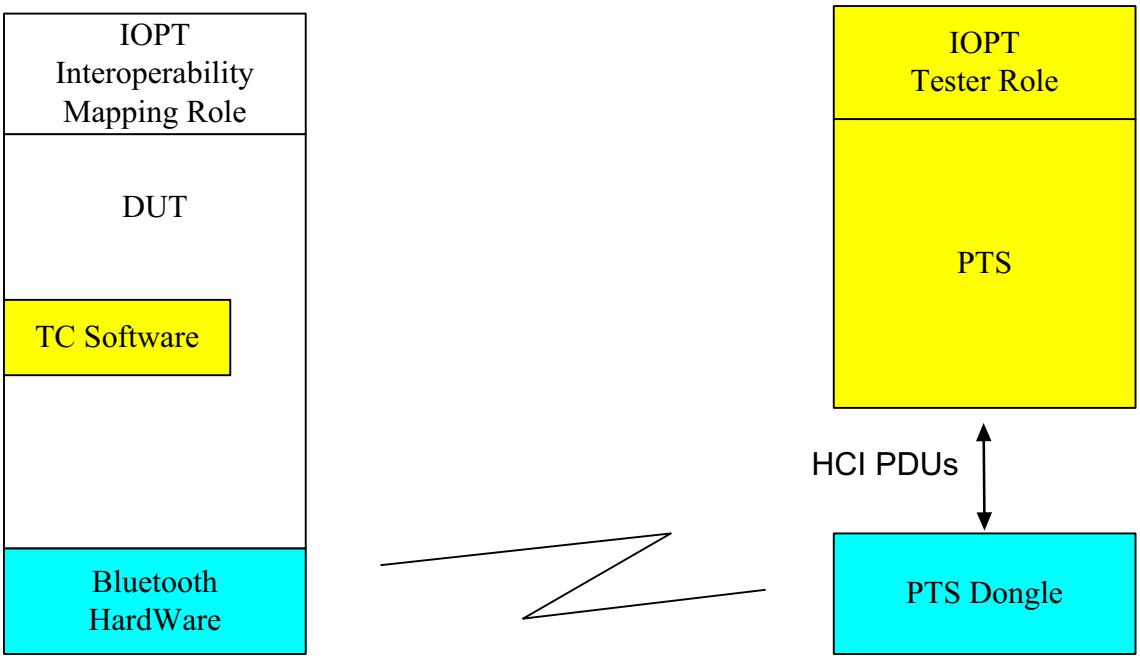
HID Link Control Requirements

Item	Capability	Status	Support
1	Supports inquiry, 79 channel	O	No
2	Supports inquiry scan, 79 channel	M.1	Yes

2. Test Summary

2.1. IOPT

2.1.1. Test Platform for IOPT

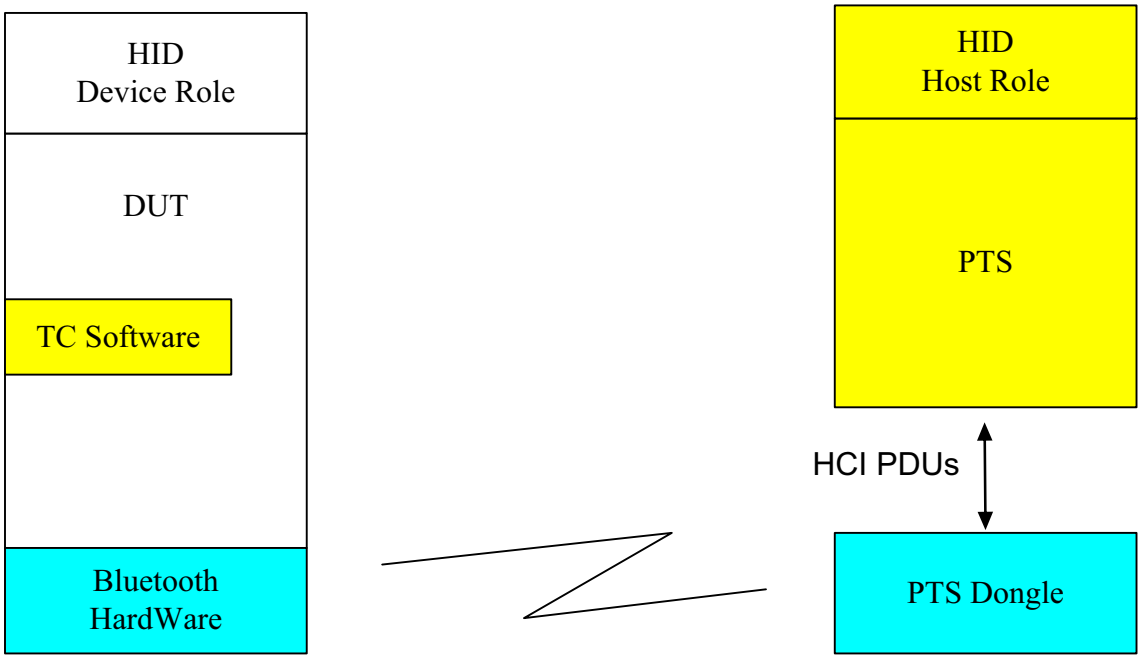


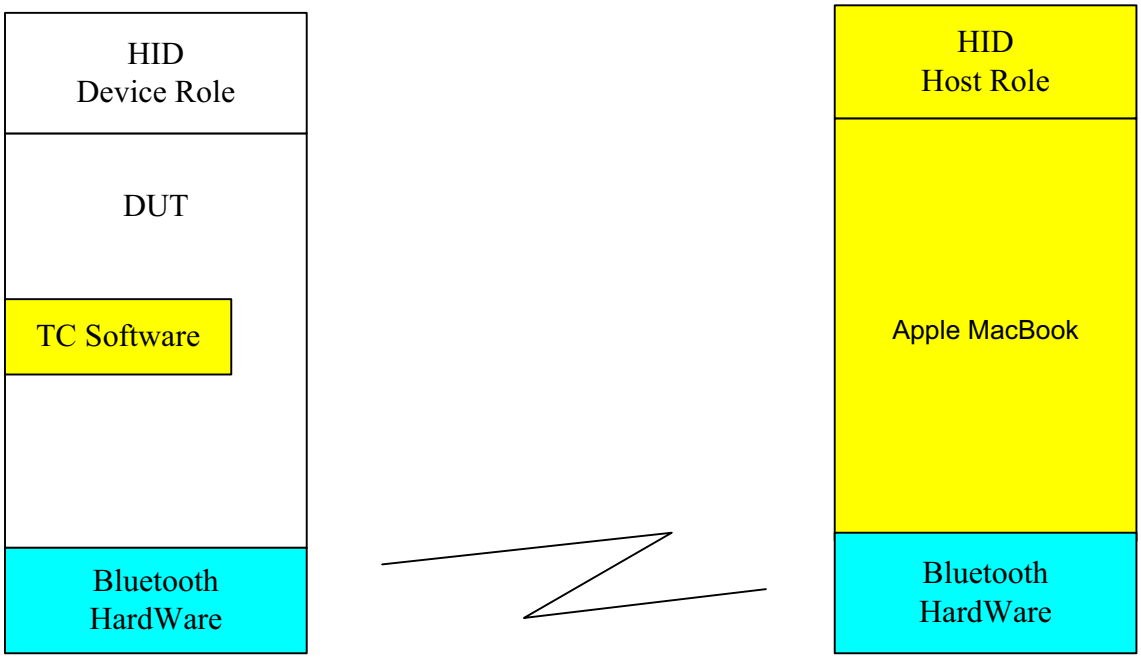
2.1.2. Test Case Result for IOPT

TC identifier	Verdict	Execution Date	Platform	Software Version
TP/COD/BV-01-I	Pass	2010/01/12	PTS	v3.3.1.4
TP/SDSS/BV-02-I	Pass	2010/01/12	PTS	v3.3.1.4
TP/SDAS/BV-03-I	Pass	2010/01/12	PTS	v3.3.1.4
TP/SDR/BV-04-I	Pass	2010/01/12	PTS	v3.3.1.4

2.2. HID

2.2.1. Test Platform for HID (Device Role)





2.2.2. Test Case Result for HID (Device Role)

TC identifier	Verdict	Execution Date	Platform	Software Version
TP/CON/BV-01-I	Pass	2010/2/8	Apple MacBook	MacOS 10.5.8
TP/HCE/BV-01-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HCE/BV-03-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HCE/BV-04-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HCE/BV-05-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HCR/BV-01-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HCR/BV-02-I	Pass	2010/1/13	PTS	v3.3.0.4
TP/HCR/BV-03-I	Pass	2010/2/8	PTS	v3.3.1.4
TP/HCR/BV-04-I	Pass	2010/2/8	PTS	v3.3.1.4
TP/HDT/BV-01-I	Pass	2010/2/8	PTS	v3.3.1.4
TP/HDT/BV-02-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HDT/BV-03-I	Pass	2010/2/8	PTS	v3.3.1.4
TP/HDT/BV-04-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HDT/BV-04-I	Pass	2010/1/12	PTS	v3.3.1.4
TP/HID/BI-01-C	Pass	2010/2/27	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BI-02-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-01-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-02-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-03-C	Pass	2010/2/27	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-04-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-05-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-06-C	Pass	2010/2/27	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-07-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/HID/BV-08-C	Pass	2010/2/8	PTS + Protocol Viewer	v2.2.0.0
TP/SDD/BV-01-C	Pass	2010/1/12	PTS	v3.3.1.4
TP/SDD/BV-02-C	Pass	2010/1/12	PTS	v3.3.1.4
TP/SDD/BV-03-C	Pass	2010/2/8	Apple MacBook	MacOS 10.5.8
TP/SDD/BV-04-I	Pass	2010/2/8	Apple MacBook	MacOS 10.5.8

Appendix A: Test Case Description

IOPT

TC identifier	Description	Cat.
TP/COD/BV-01-I	Class-of-Device	B
TP/COD/BV-02-I	Class-of-Device	B
TP/SDSS/BV-02-I	Service Discovery – Service Search	B
TP/SDAS/BV-03-I	Service Search – Attribute Search	B
TP/SDR/BV-04-I	Service Search – Response	C

HID

TC identifier	Description	Cat.
TP/HCE/BV-01-I	Host connection establishment	B
TP/HCE/BV-02-I	Device connection establishment	B
TP/HCE/BV-03-I	Device initiated reconnection	B
TP/HCE/BV-04-I	Host initiated reconnection	B
TP/HCE/BV-05-I	Virtual cable operation	B
TP/HCR/BV-01-I	Host initiated connection release	B
TP/HCR/BV-02-I	Device initiated connection release	B
TP/HCR/BV-03-I	Host initiated virtual cable unplug	B
TP/HCR/BV-04-I	Device initiated virtual cable unplug	B
TP/HDT/BV-01-I	Device data transfer	B
TP/HDT/BV-02-I	Host data transfer	B
TP/HDT/BV-03-I	Device boot protocol mode data transfer	B
TP/HDT/BV-04-I	Host boot protocol mode data transfer	B
TP/HID/BV-01-C	Get_Report	B
TP/HID/BV-02-C	Set_Report	B
TP/HID/BV-03-C	Get_Protocol	B
TP/HID/BV-04-C	Set_Protocol	B
TP/HID/BV-05-C	Get_Idle	B
TP/HID/BV-06-C	Set_Idle	B
TP/HID/BV-07-C	HID_Control (Virtual cable unplug)	B
TP/HID/BV-08-C	Set_Protocol Immediate	B
TP/HID/BV-09-C	Get_Protocol, Boot Mode	B
TP/HID/BV-10-C	Set_Protocol, Boot Mode	B
TP/HID/BI-01-C	Error Message: Invalid report ID	B
TP/HID/BI-02-C	Error Message: Unsupported request	B
TP/DAT/BV-01-C	Short reports	B
TP/DAT/BV-02-C	Large reports on interrupt channel	B
TP/DAT/BV-03-C	Large reports on control channel	B
TP/DAT/BV-04-C	Large Reports on interrupt channel – Device to Host	B
TP/DAT/BI-01-C	Large Reports on interrupt channel rejected - Boot Mode Only Hosts	B
TP/DAT/BI-02-C	Non-Boot Reports on interrupt channel ignored or rejected – Boot Mode Only Hosts	B
TP/SDD/BV-01-C	Retrieve and validate the HID SDP record	B
TP/SDD/BV-03-C	Retrieve the HID SDP Record when HID Control and Interrupt channel connection present	B
TP/SDD/BV-04-I	Retrieve the HID SDP Record when Discoverable	B
TP/CON/BV-01-I	Limited Discoverable Mode	B

Appendix B: Test Data

1. Test Data for Interoperability Testing ： Test Evidence for Interoperability Test.zip