

Appendix: Bluetooth Classic

Contents

Appendix A: 20dBEmission Bandwidth 3

 Test Result..... 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth10

 Test Result..... 10

 Test Graphs 11

Appendix C: Maximum conducted output power17

 Test Result..... 17

 Test Graphs 18

Appendix D: Carrier frequency separation24

 Test Result..... 24

 Test Graphs 25

Appendix E: Time of occupancy 31

 Test Result..... 31

 Test Graphs 32

Appendix F: Number of hopping channels44

 Test Result..... 44

 Test Graphs 45

Appendix G:Band edge measurements47

 Test Result..... 47

 Test Graphs 48

Appendix H:Conducted Spurious Emission 56

 Test Result..... 56

 Test Graphs 58

Appendix I: Duty Cycle 76

 Test Result..... 76

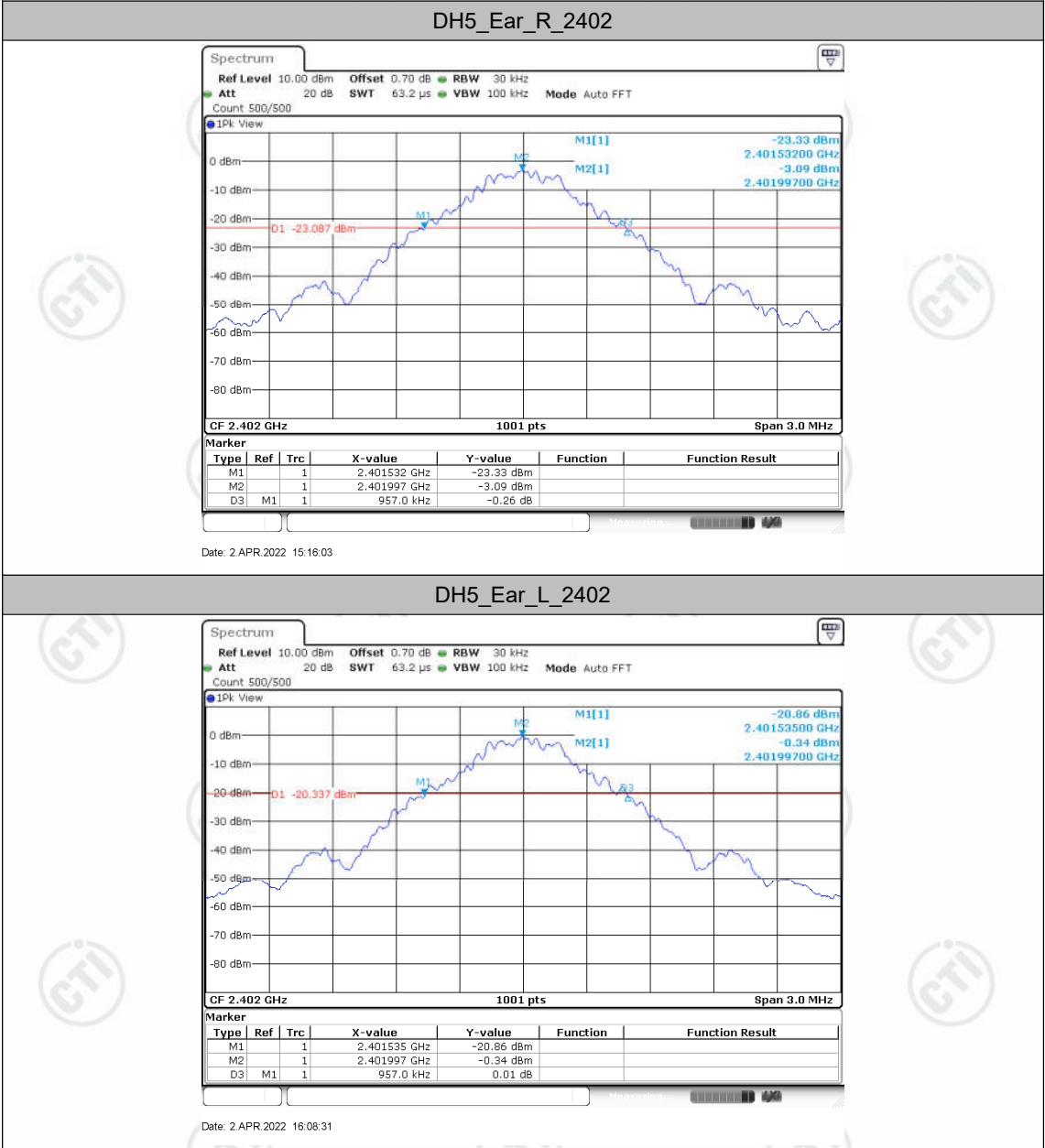
 Test Graphs 77

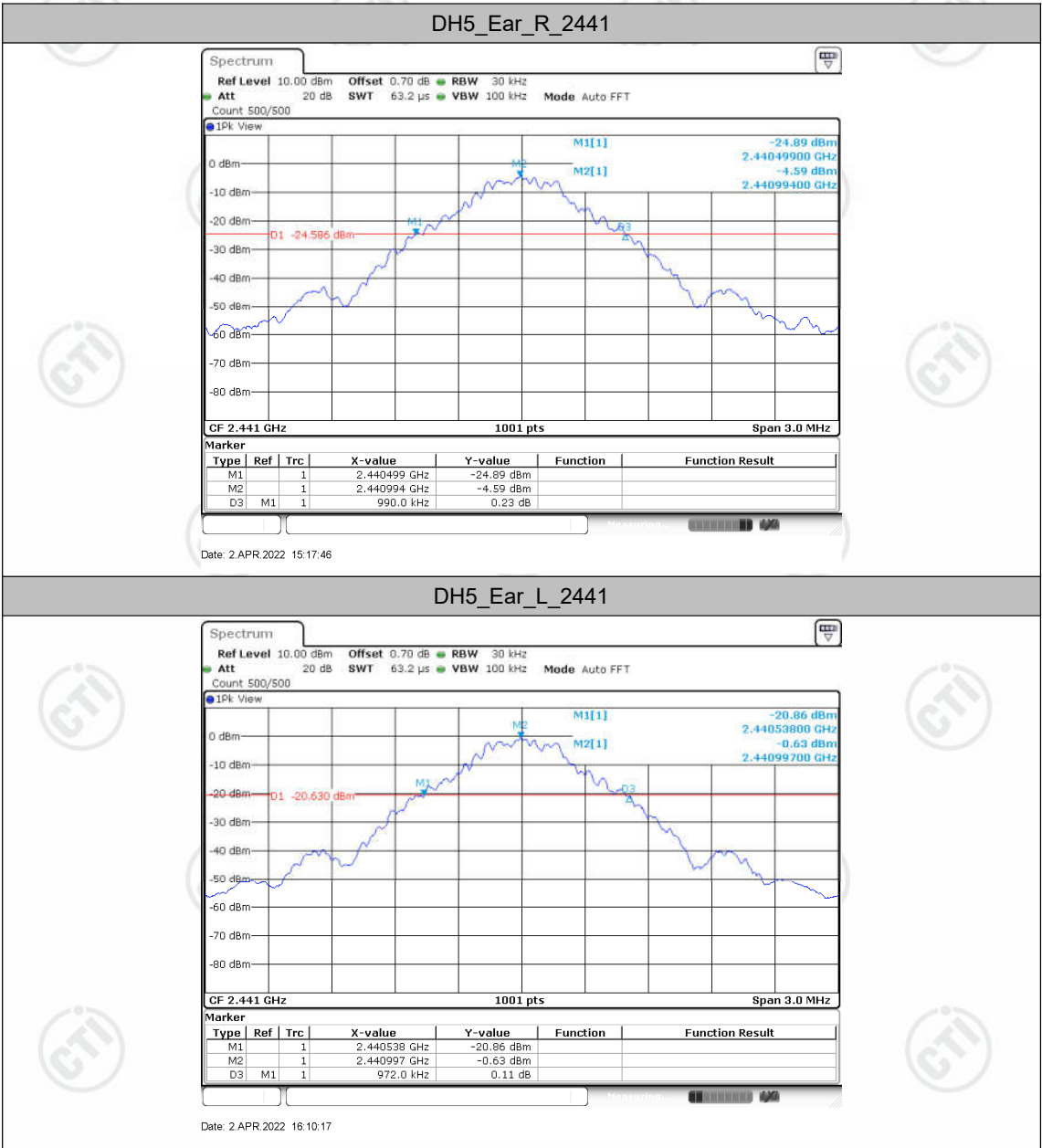
Appendix A: 20dBEmission Bandwidth

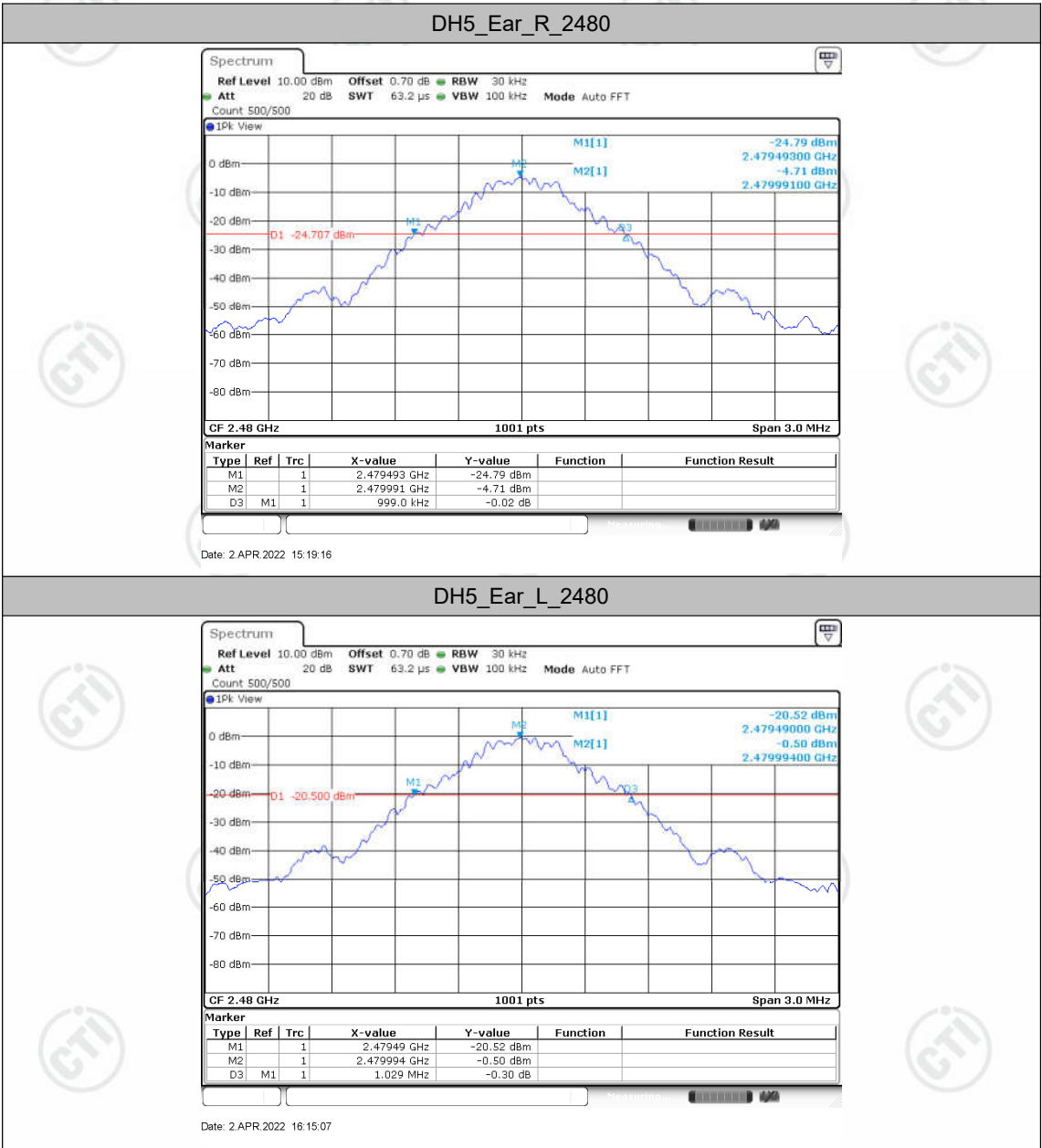
Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ear_R	2402	0.957	2401.532	2402.489	---	PASS
	Ear_L	2402	0.957	2401.535	2402.492	---	PASS
	Ear_R	2441	0.990	2440.499	2441.489	---	PASS
	Ear_L	2441	0.972	2440.538	2441.510	---	PASS
	Ear_R	2480	0.999	2479.493	2480.492	---	PASS
	Ear_L	2480	1.029	2479.490	2480.519	---	PASS
2DH5	Ear_R	2402	1.293	2401.367	2402.660	---	PASS
	Ear_L	2402	1.290	2401.370	2402.660	---	PASS
	Ear_R	2441	1.296	2440.364	2441.660	---	PASS
	Ear_L	2441	1.323	2440.340	2441.663	---	PASS
	Ear_R	2480	1.320	2479.343	2480.663	---	PASS
	Ear_L	2480	1.326	2479.340	2480.666	---	PASS

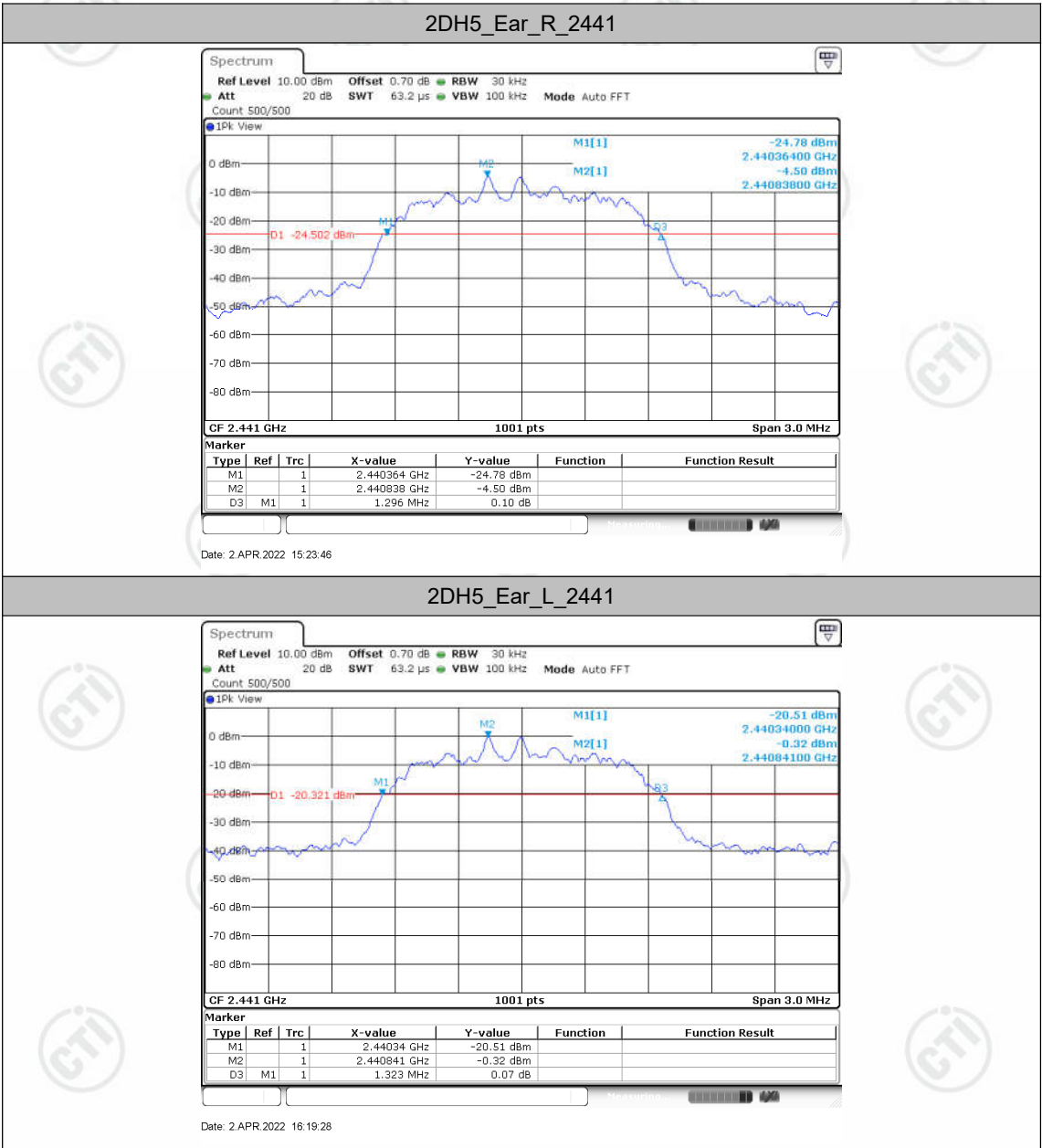
Test Graphs

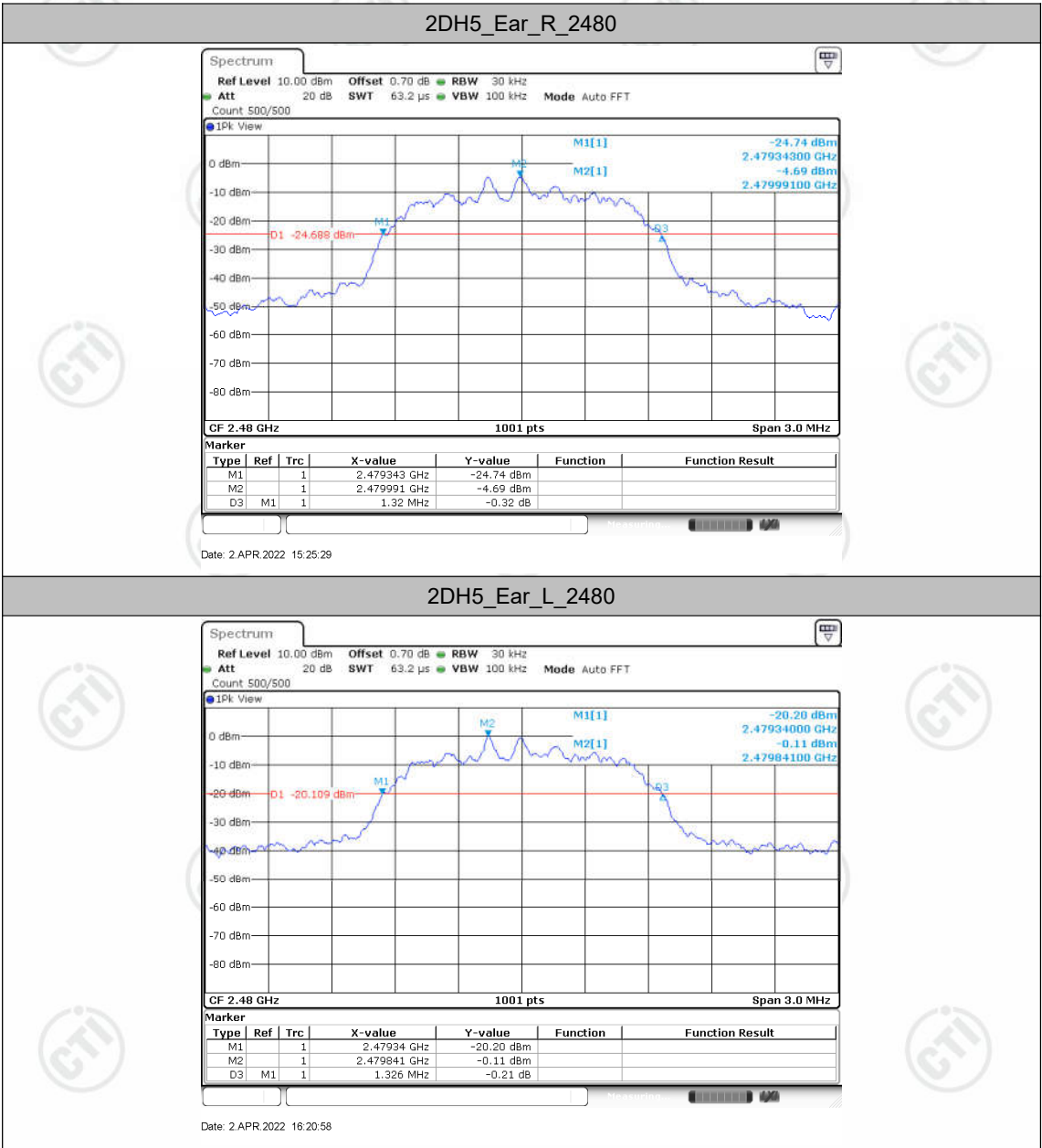












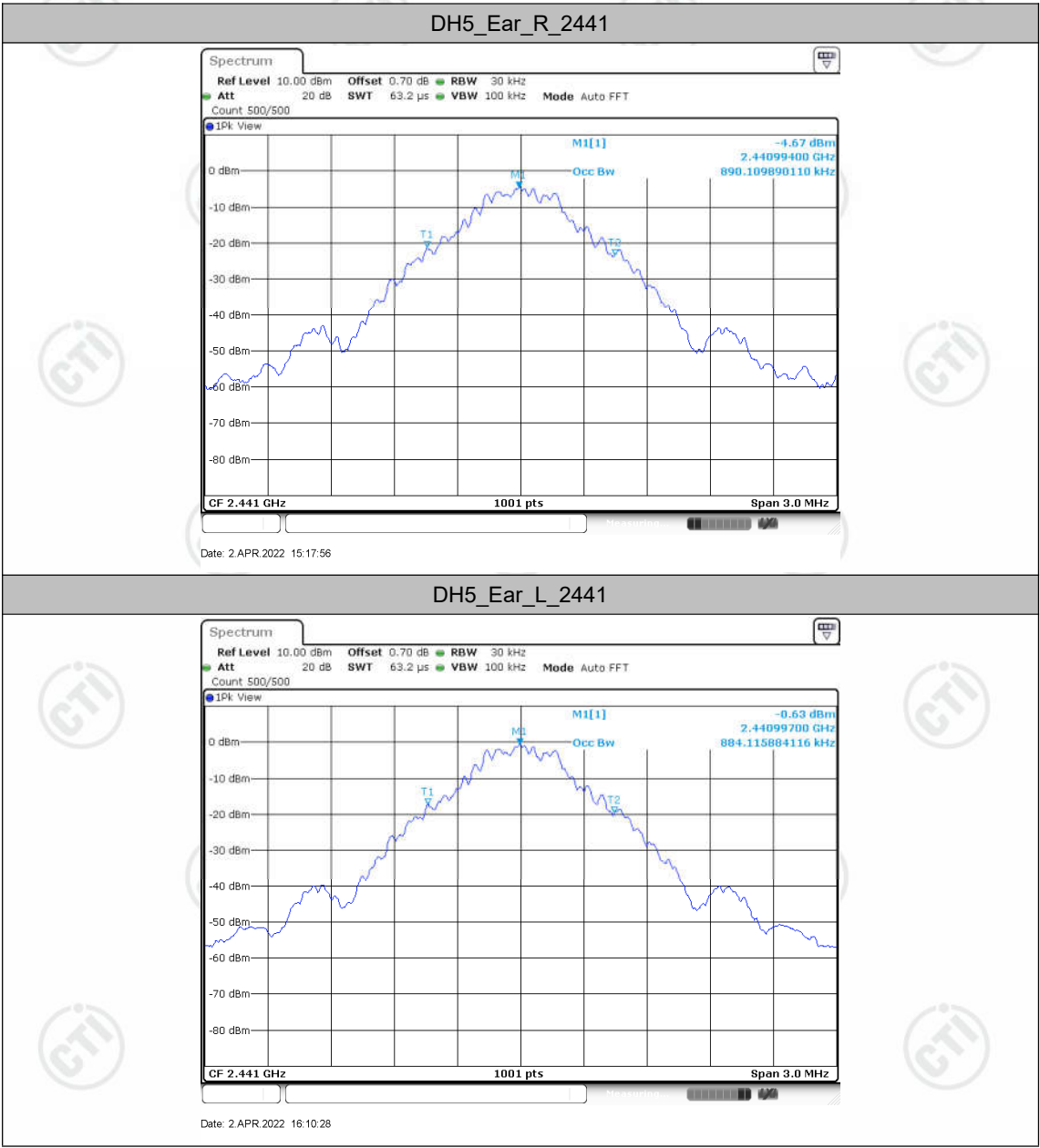
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ear_R	2402	0.878	2401.562	2402.441	---	PASS
	Ear_L	2402	0.881	2401.562	2402.444	---	PASS
	Ear_R	2441	0.89	2440.556	2441.447	---	PASS
	Ear_L	2441	0.884	2440.559	2441.444	---	PASS
	Ear_R	2480	0.896	2479.553	2480.450	---	PASS
	Ear_L	2480	0.902	2479.553	2480.456	---	PASS
2DH5	Ear_R	2402	1.181	2401.410	2402.590	---	PASS
	Ear_L	2402	1.187	2401.410	2402.596	---	PASS
	Ear_R	2441	1.181	2440.410	2441.590	---	PASS
	Ear_L	2441	1.196	2440.407	2441.602	---	PASS
	Ear_R	2480	1.184	2479.410	2480.593	---	PASS
	Ear_L	2480	1.199	2479.407	2480.605	---	PASS

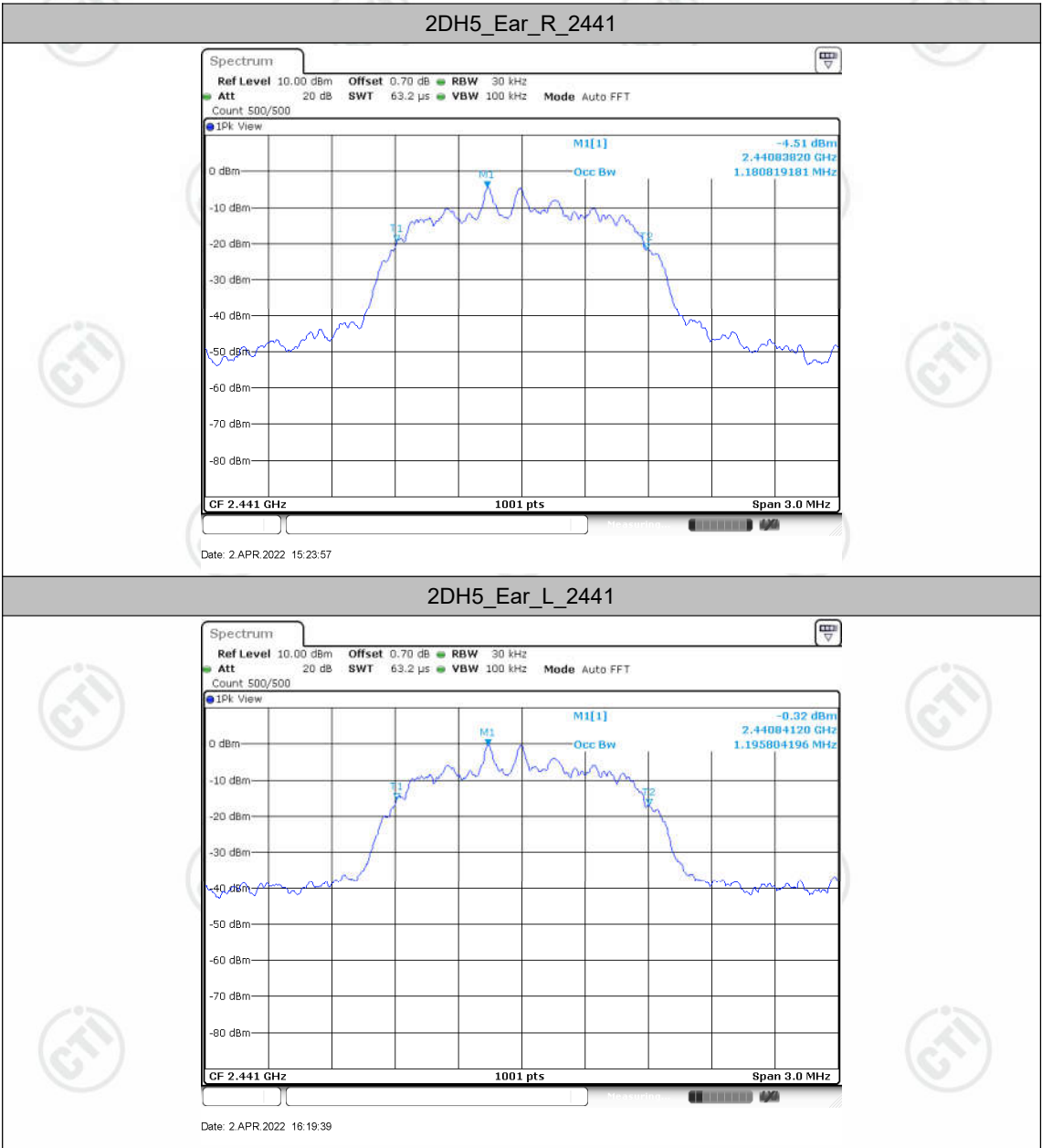
Test Graphs











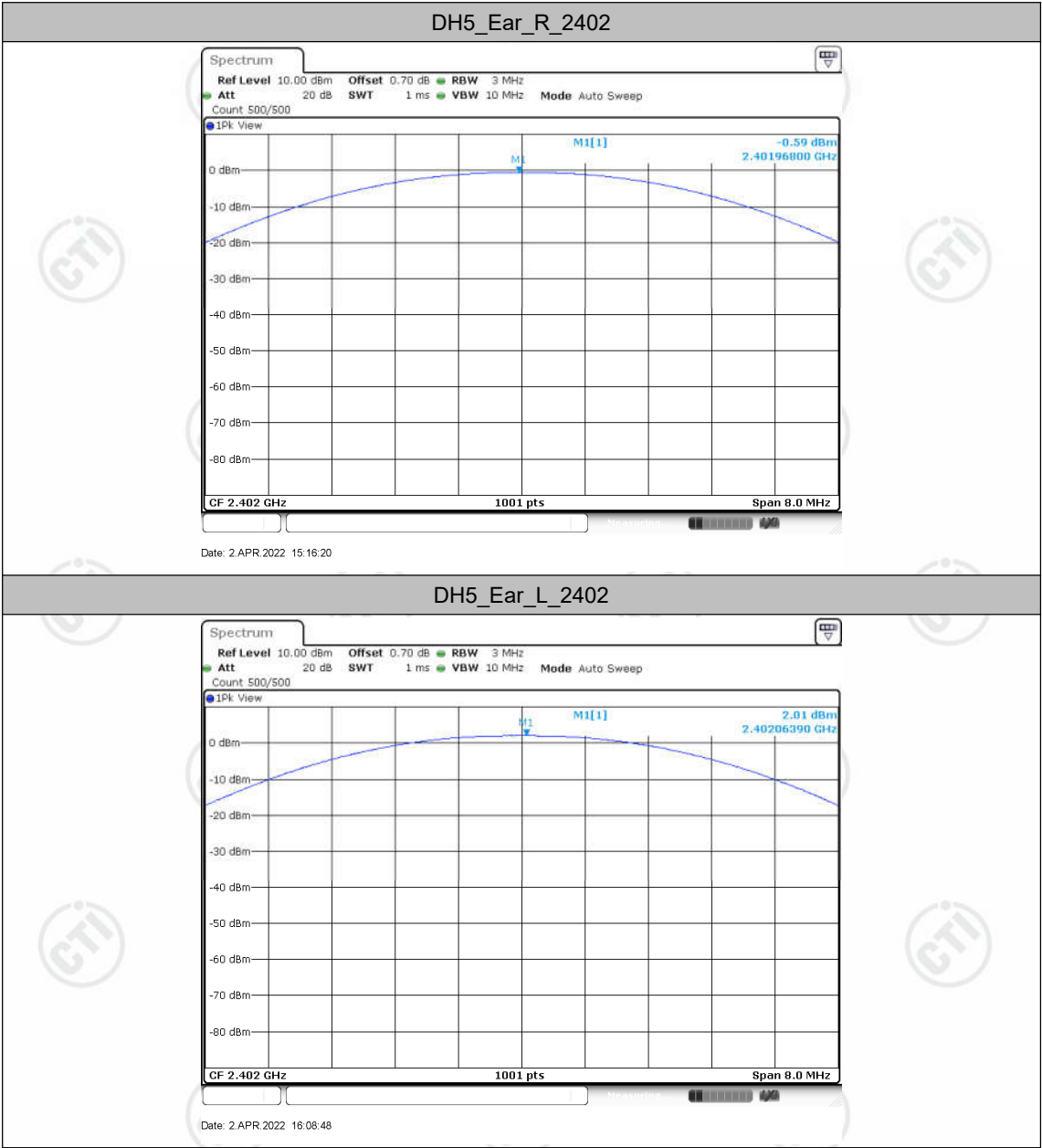


Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ear_R	2402	-0.59	<=20.97	PASS
	Ear_L	2402	2.01	<=20.97	PASS
	Ear_R	2441	-2.02	<=20.97	PASS
	Ear_L	2441	2.03	<=20.97	PASS
	Ear_R	2480	-2.14	<=20.97	PASS
	Ear_L	2480	2.37	<=20.97	PASS
2DH5	Ear_R	2402	0.2	<=20.97	PASS
	Ear_L	2402	2.8	<=20.97	PASS
	Ear_R	2441	-1.21	<=20.97	PASS
	Ear_L	2441	2.95	<=20.97	PASS
	Ear_R	2480	-1.28	<=20.97	PASS
	Ear_L	2480	3.04	<=20.97	PASS

Test Graphs











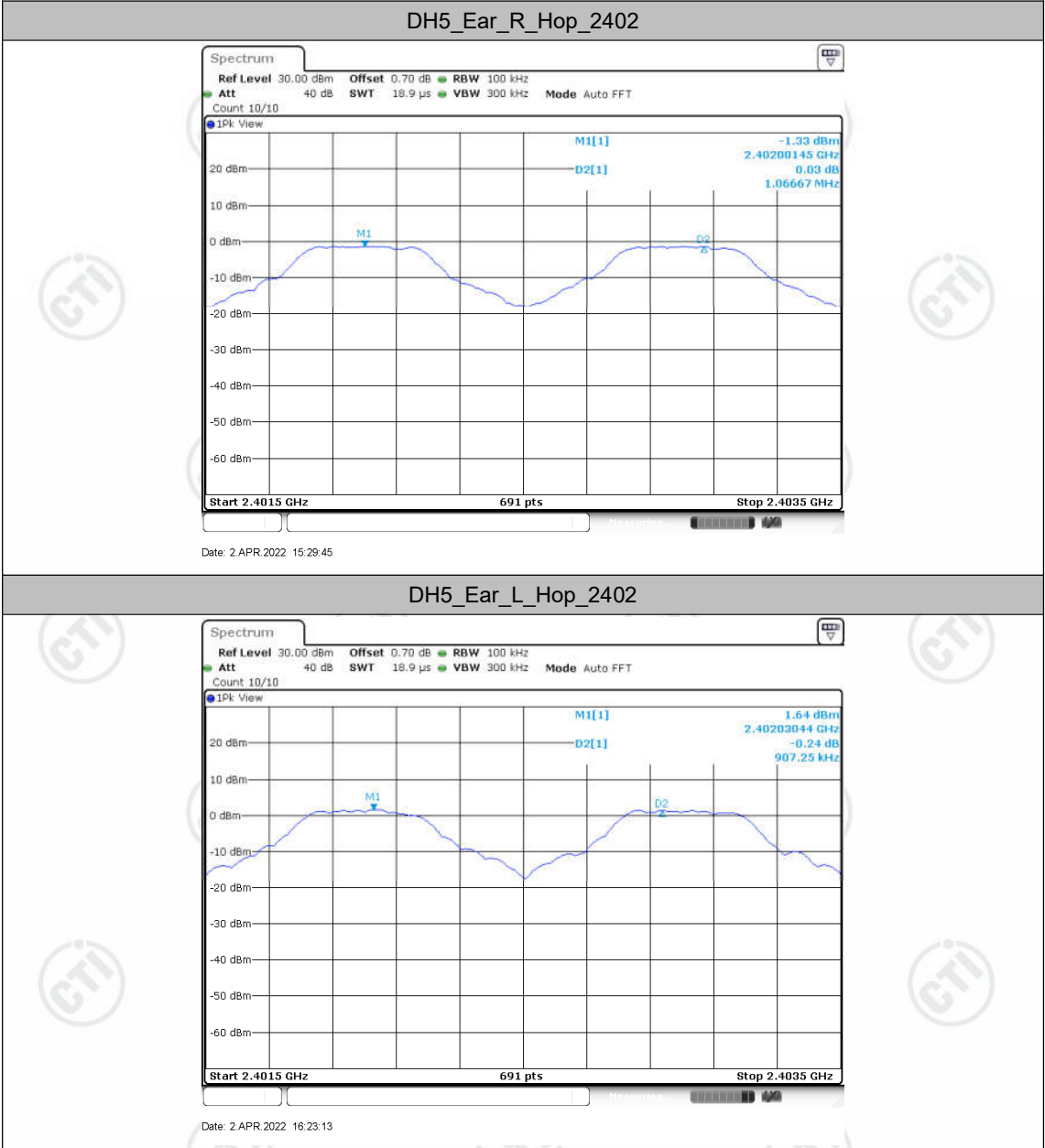


Appendix D: Carrier frequency separation

Test Result

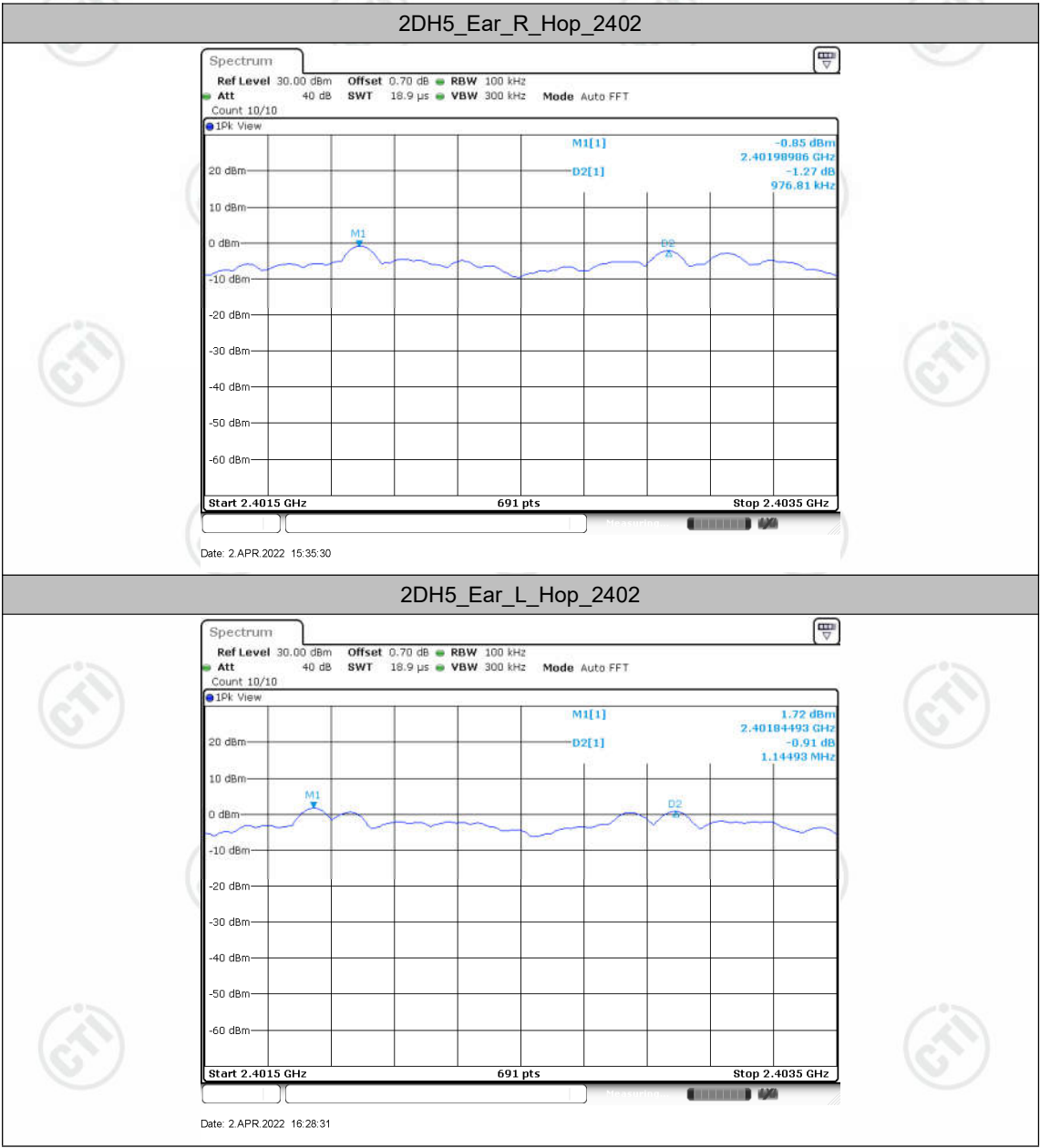
Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ear_R	Hop_2402	1.067	>=0.999	PASS
	Ear_L	Hop_2402	0.907	>=0.666	PASS
	Ear_R	Hop_2441	1.003	>=0.999	PASS
	Ear_L	Hop_2441	1.009	>=0.999	PASS
	Ear_R	Hop_2480	1	>=0.999	PASS
	Ear_L	Hop_2480	0.951	>=0.666	PASS
2DH5	Ear_R	Hop_2402	0.977	>=0.880	PASS
	Ear_L	Hop_2402	1.145	>=0.880	PASS
	Ear_R	Hop_2441	1.159	>=0.880	PASS
	Ear_L	Hop_2441	1.006	>=0.880	PASS
	Ear_R	Hop_2480	1.009	>=0.880	PASS
	Ear_L	Hop_2480	1.003	>=0.880	PASS

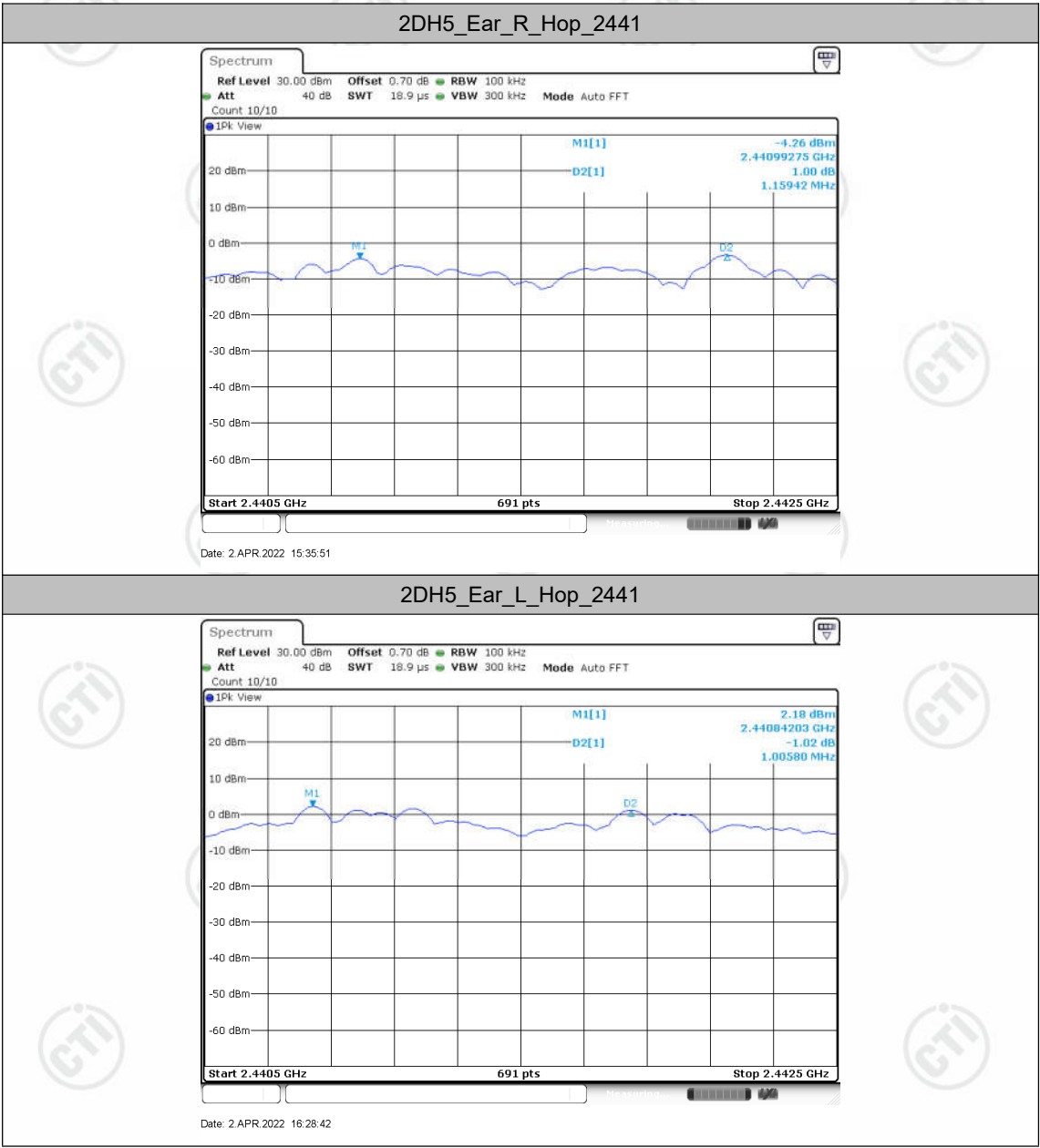
Test Graphs

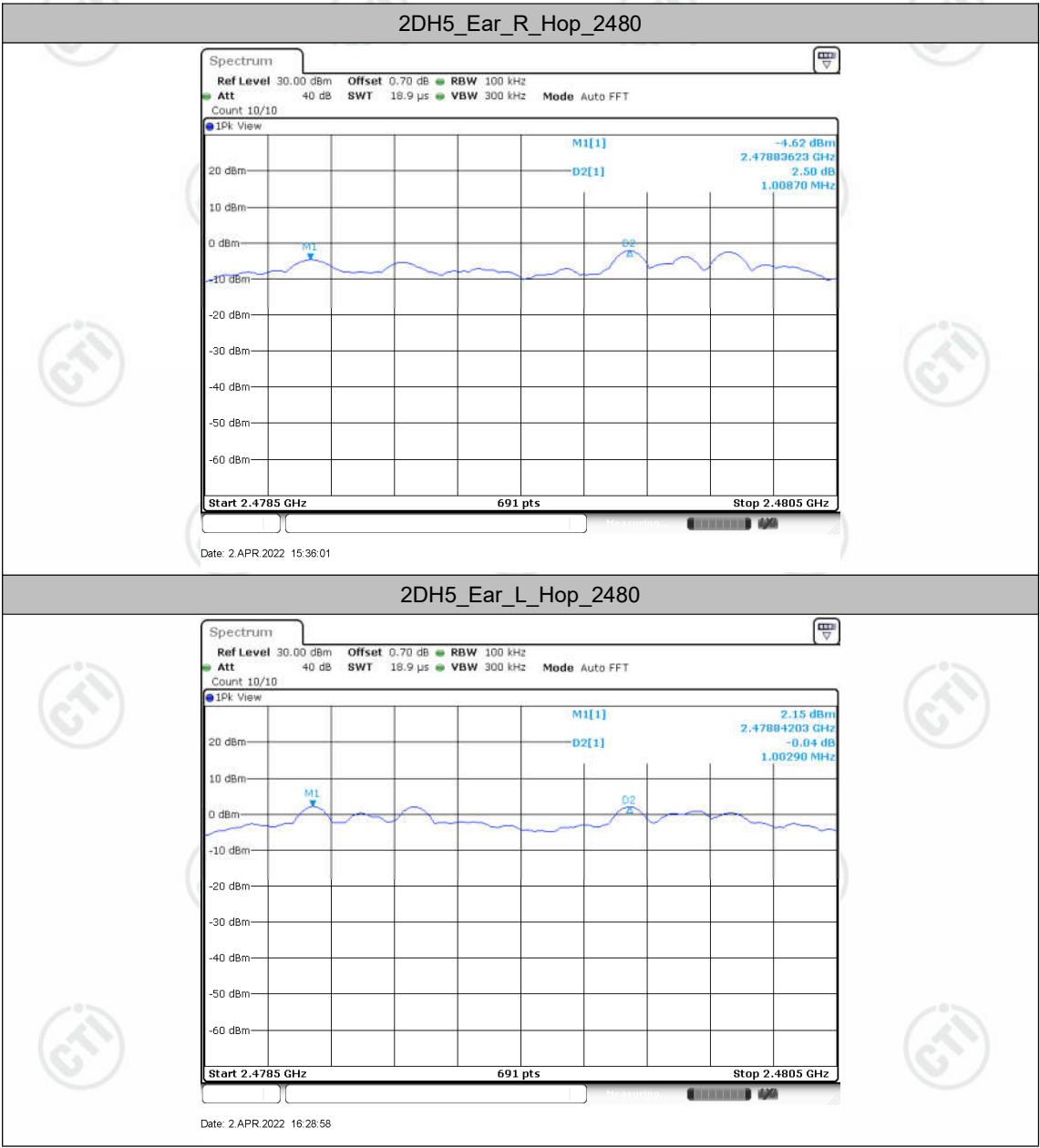










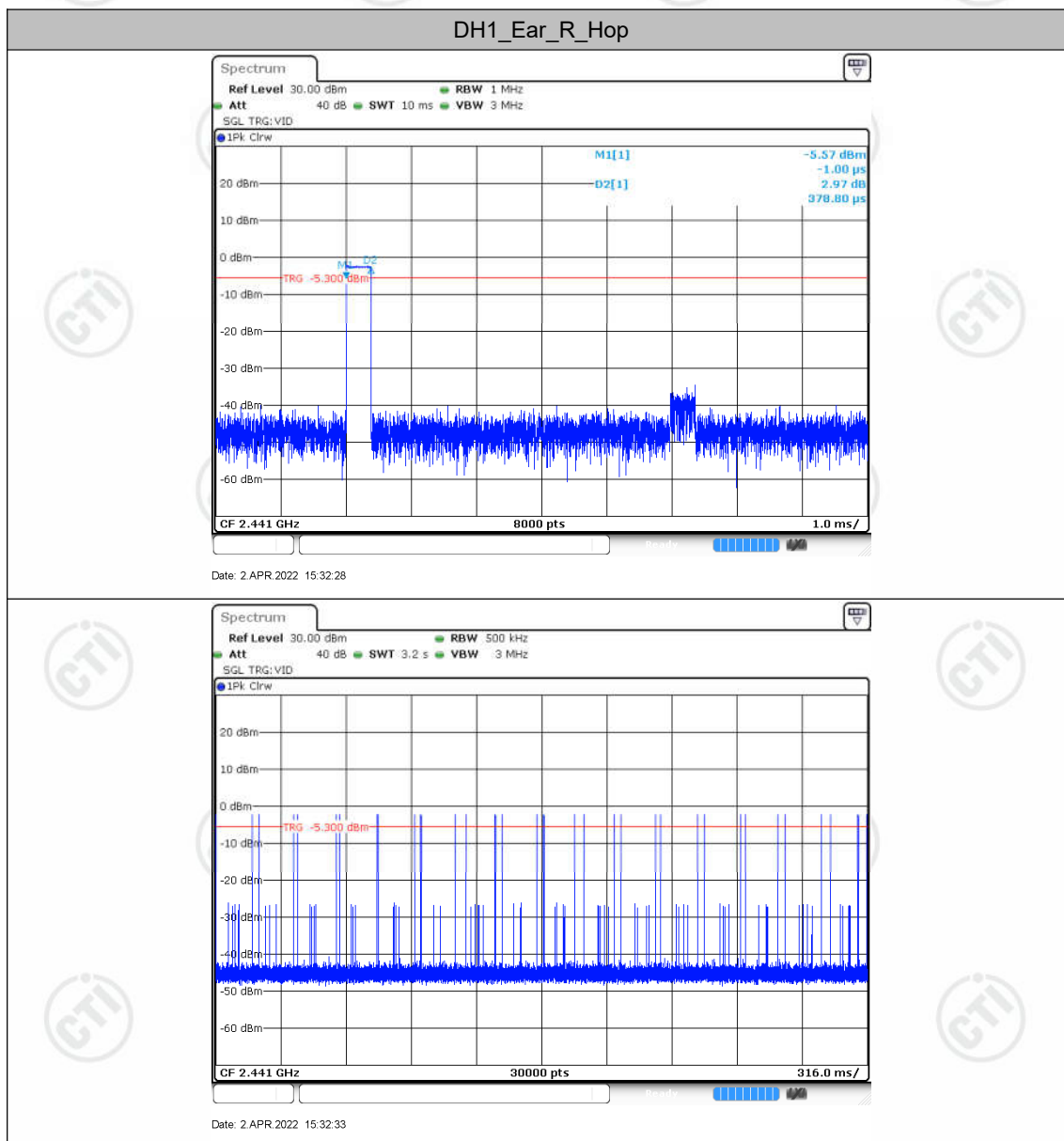


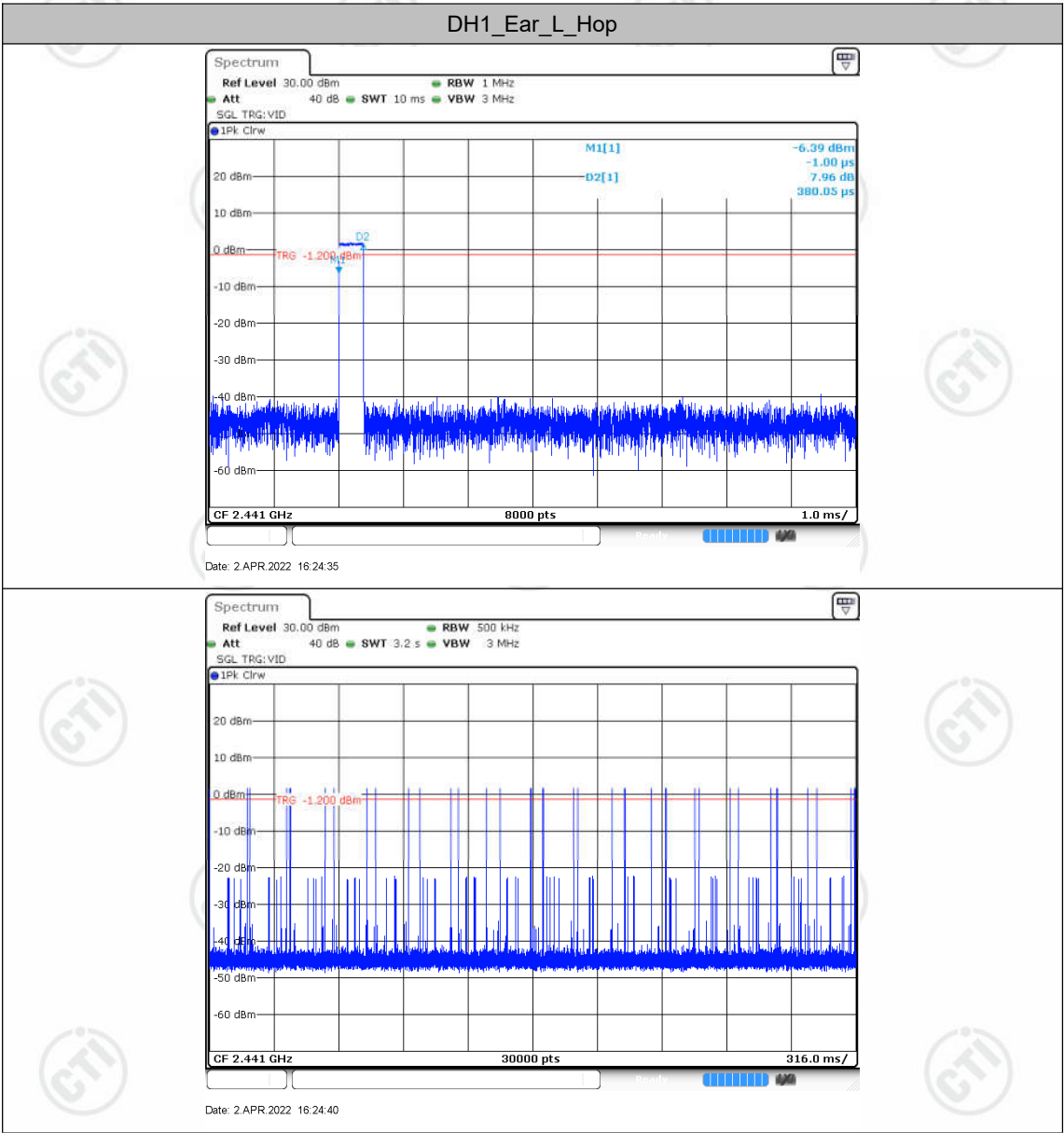
Appendix E: Time of occupancy

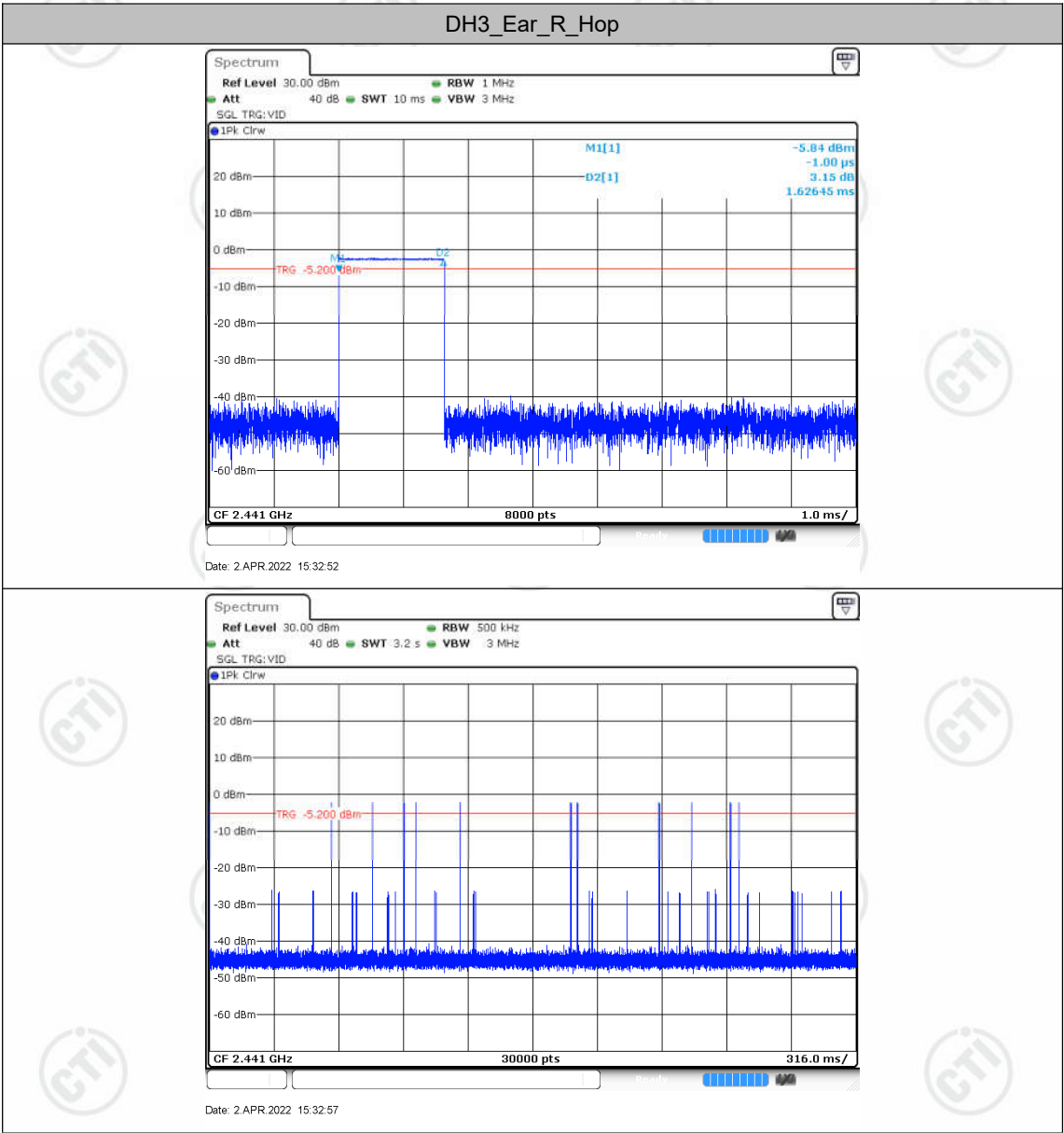
Test Result

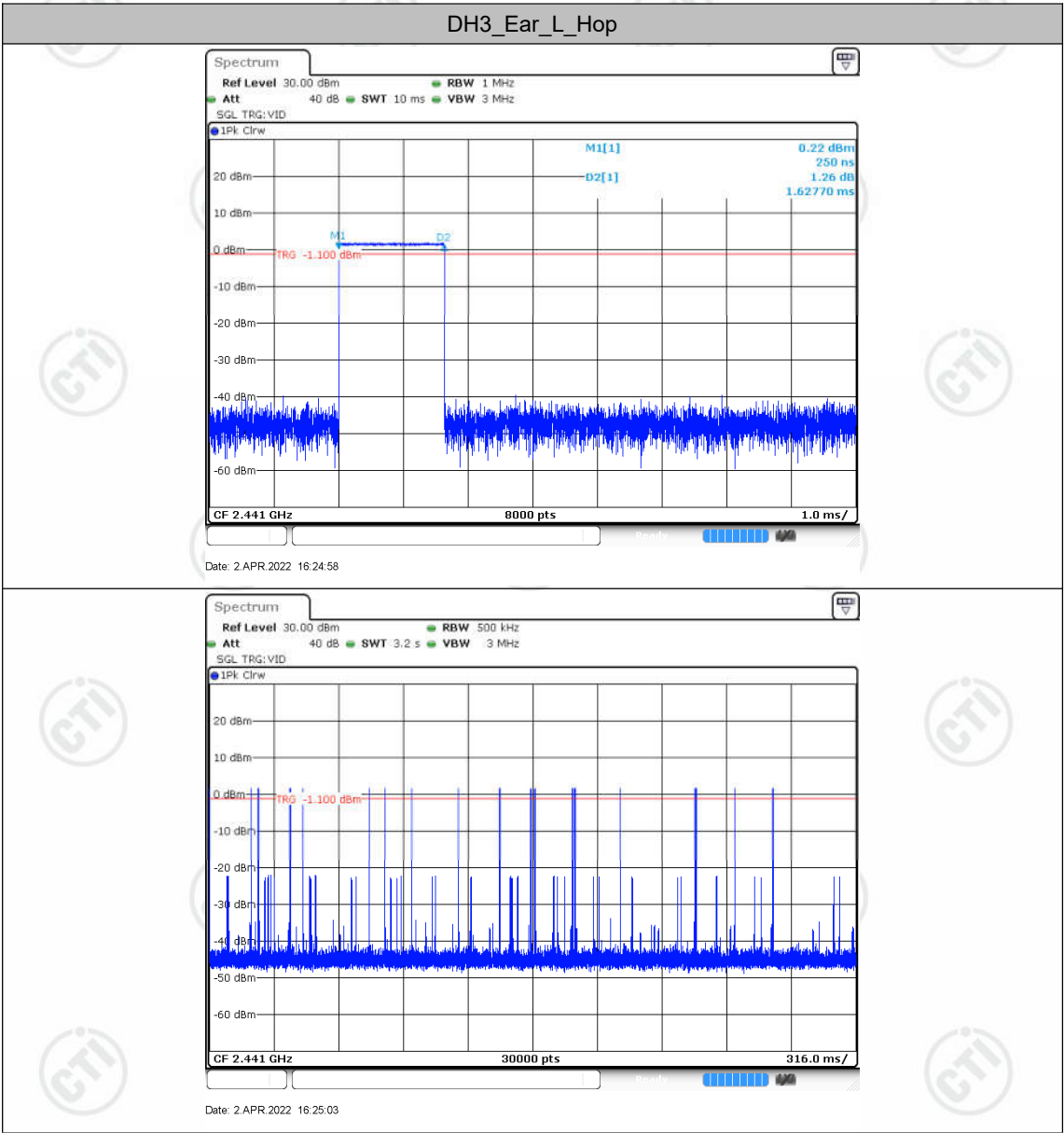
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ear_R	Hop	0.38	330	0.125	<=0.4	PASS
	Ear_L	Hop	0.38	330	0.125	<=0.4	PASS
DH3	Ear_R	Hop	1.63	120	0.195	<=0.4	PASS
	Ear_L	Hop	1.63	190	0.309	<=0.4	PASS
DH5	Ear_R	Hop	2.87	120	0.345	<=0.4	PASS
	Ear_L	Hop	2.87	120	0.344	<=0.4	PASS
2DH1	Ear_R	Hop	0.39	330	0.128	<=0.4	PASS
	Ear_L	Hop	0.39	330	0.128	<=0.4	PASS
2DH3	Ear_R	Hop	1.63	140	0.228	<=0.4	PASS
	Ear_L	Hop	1.63	190	0.31	<=0.4	PASS
2DH5	Ear_R	Hop	2.87	100	0.287	<=0.4	PASS
	Ear_L	Hop	2.87	130	0.373	<=0.4	PASS

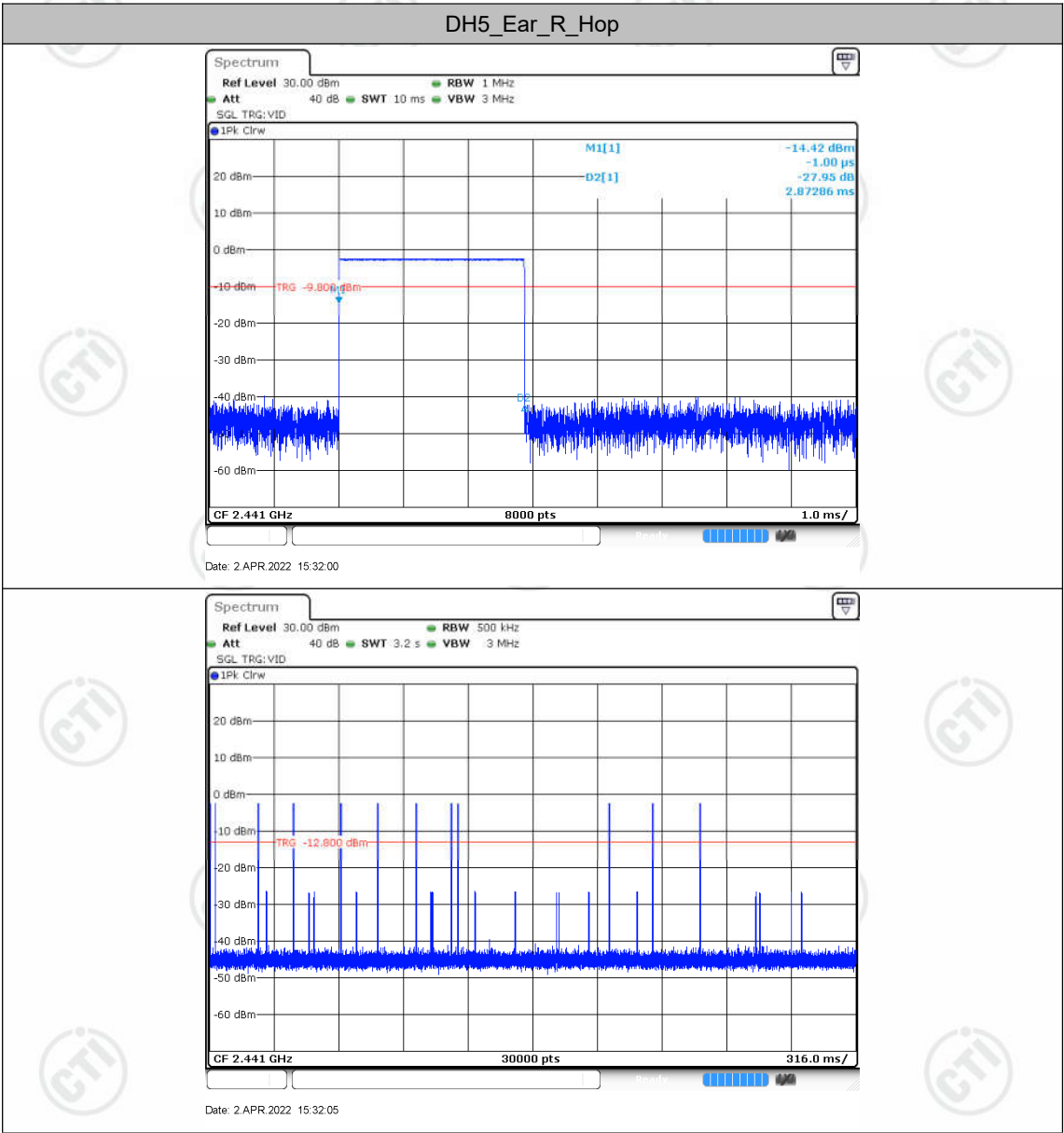
Test Graphs

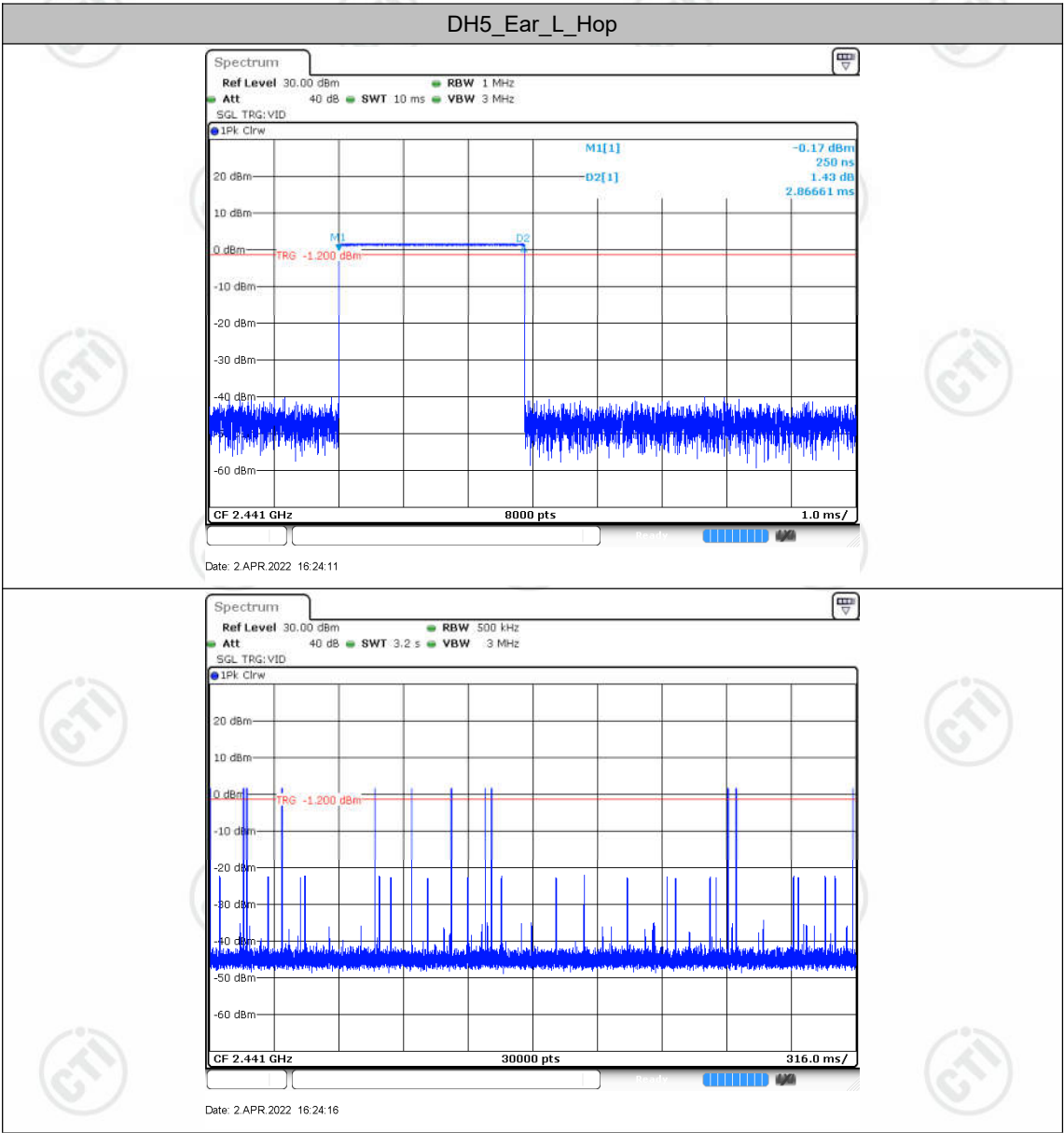


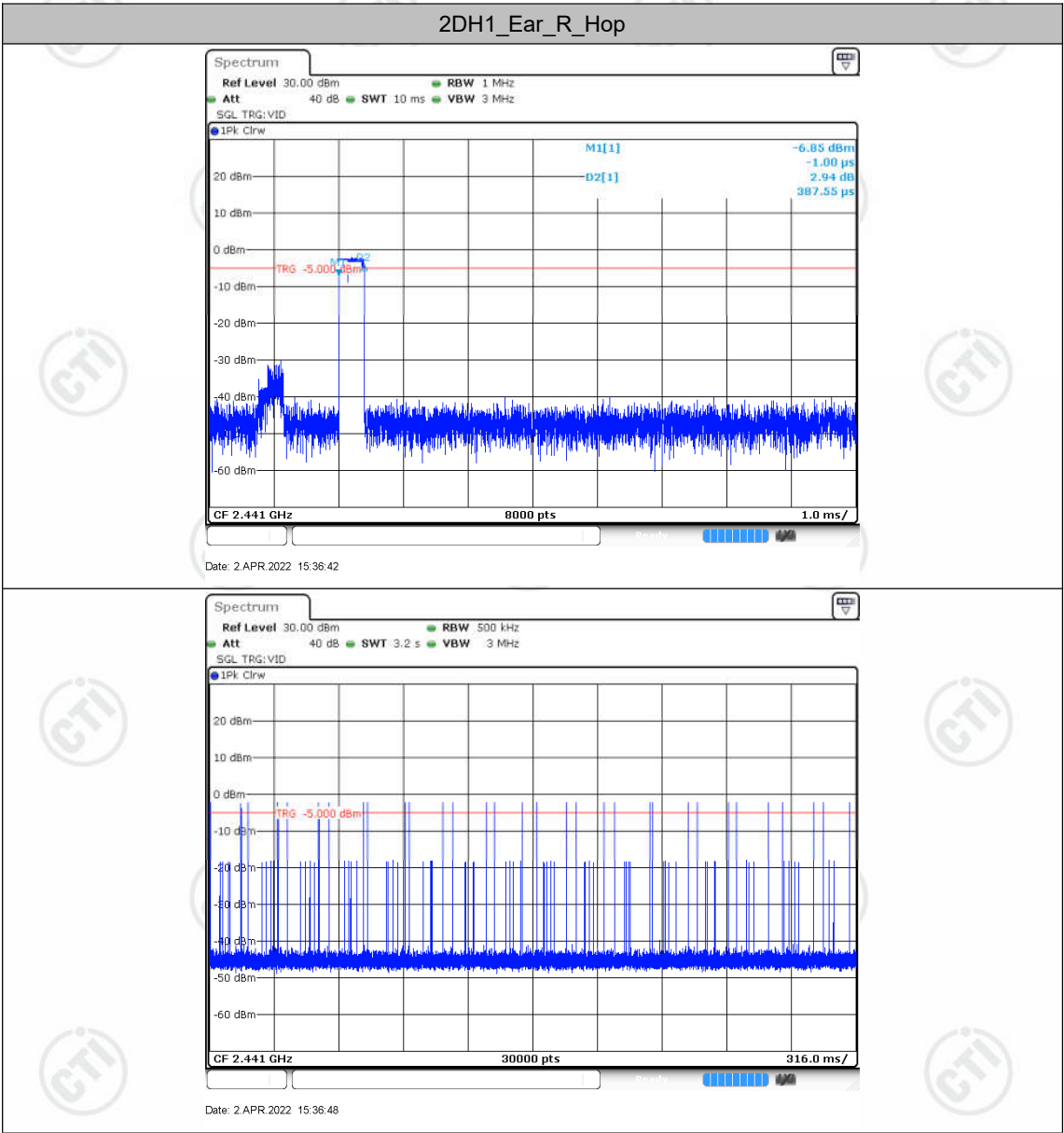


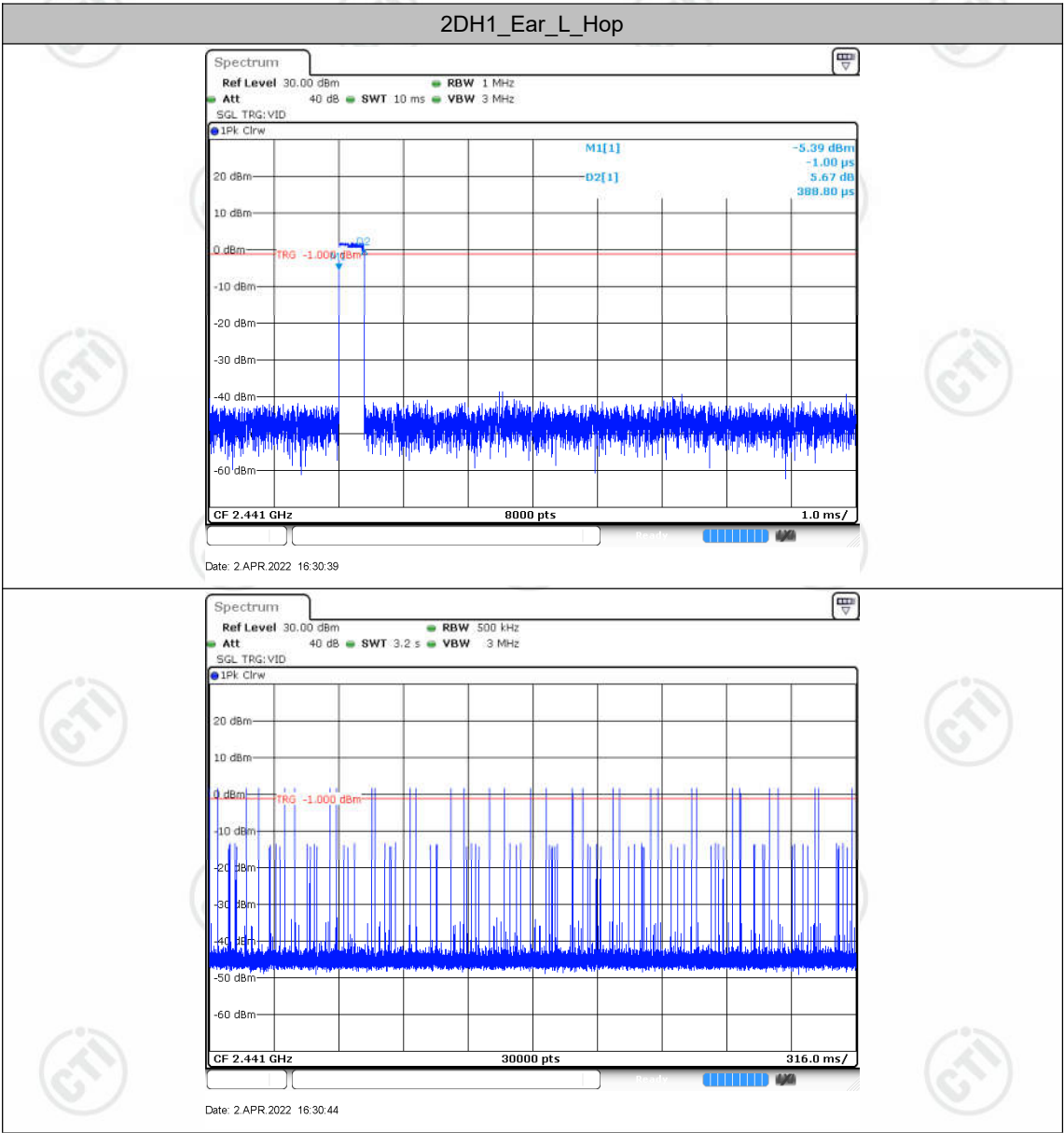


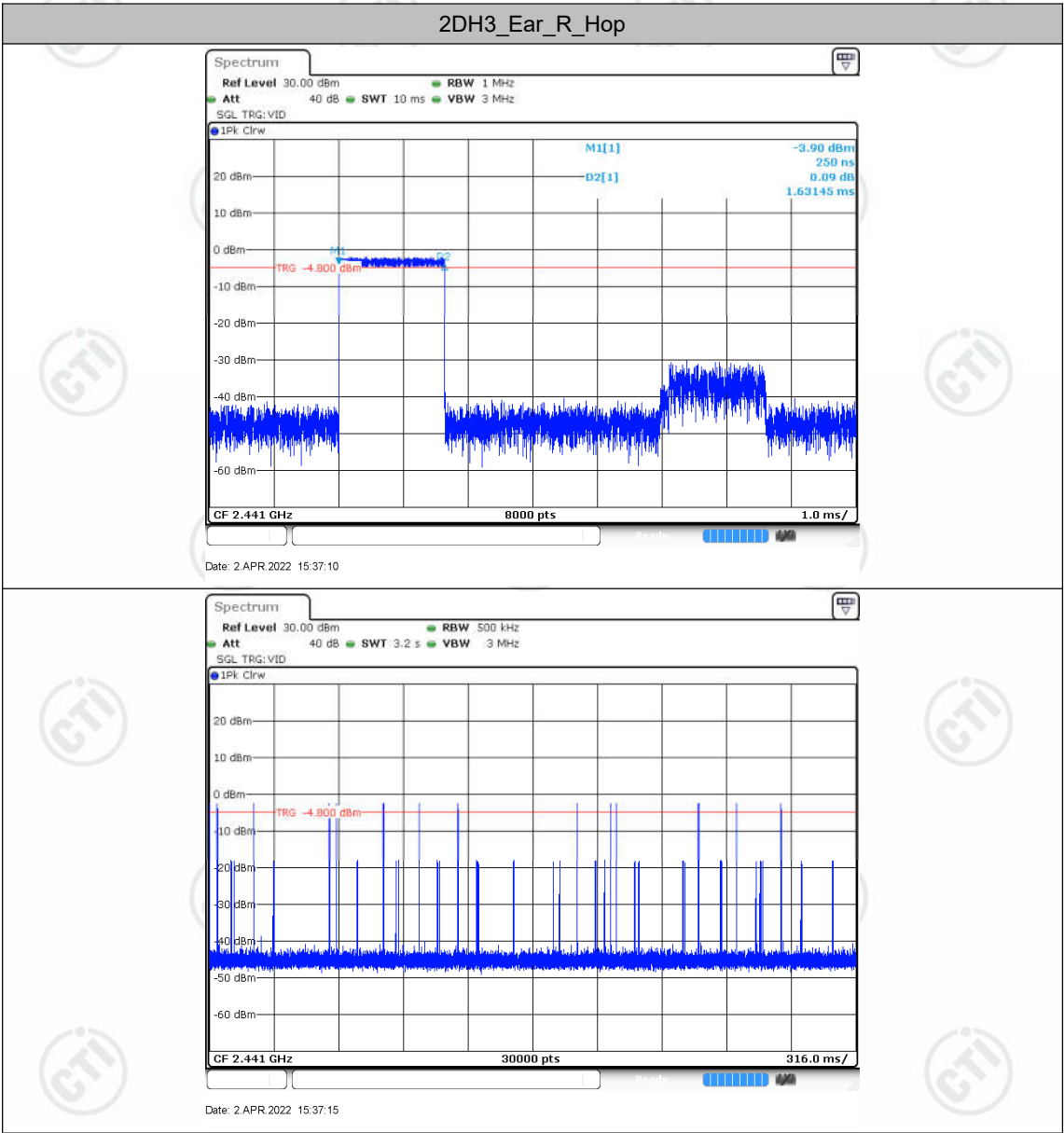


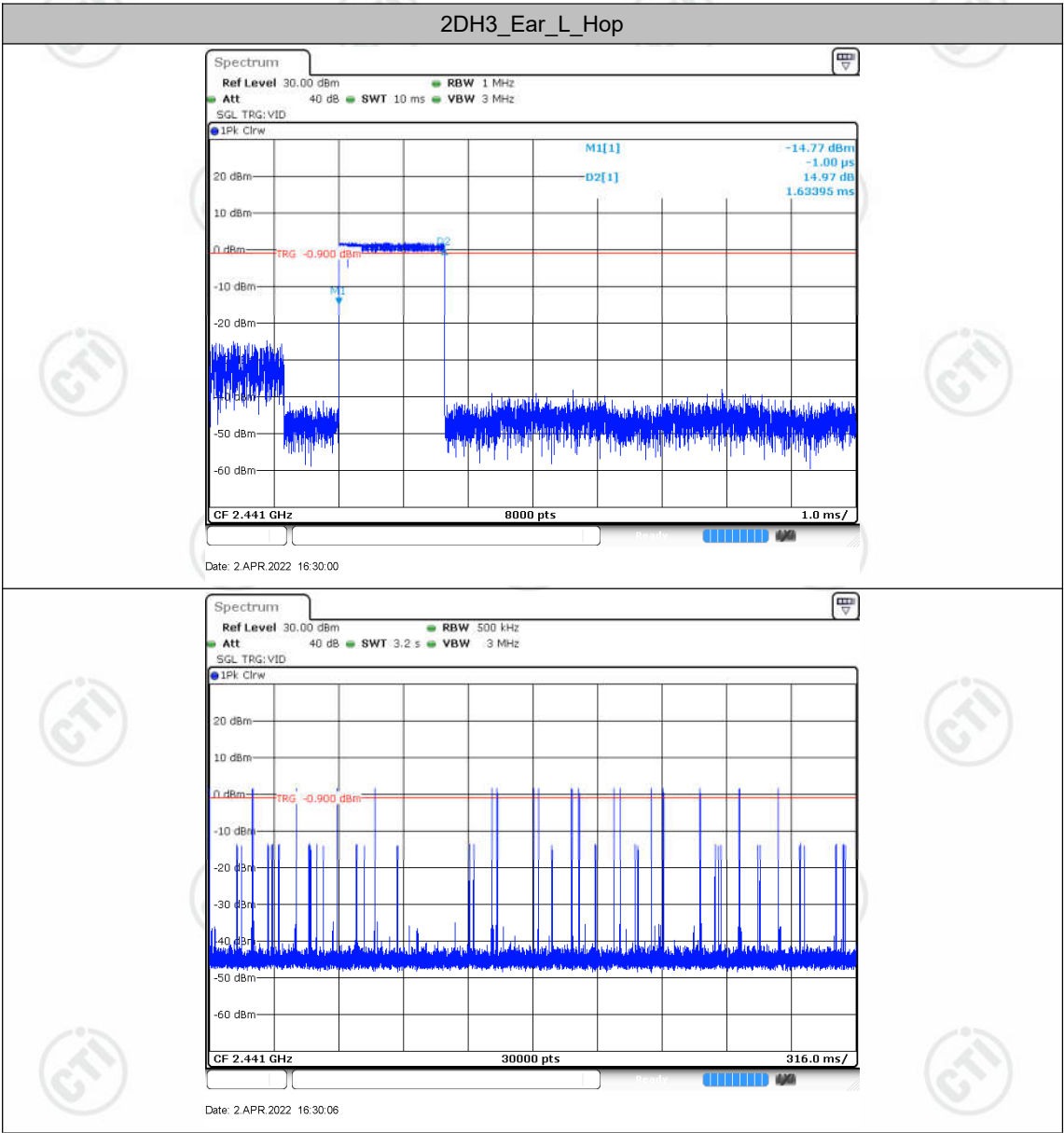


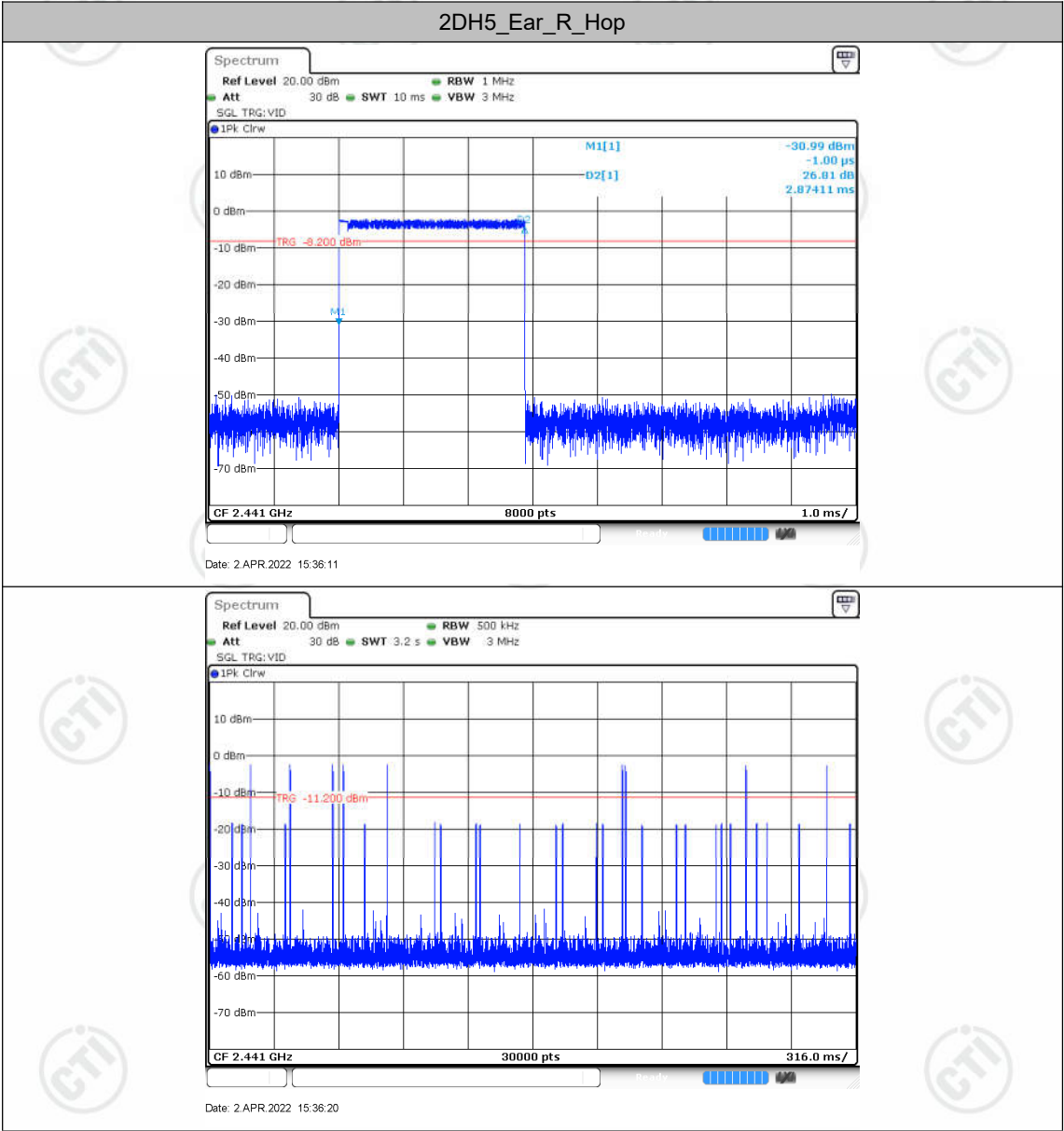


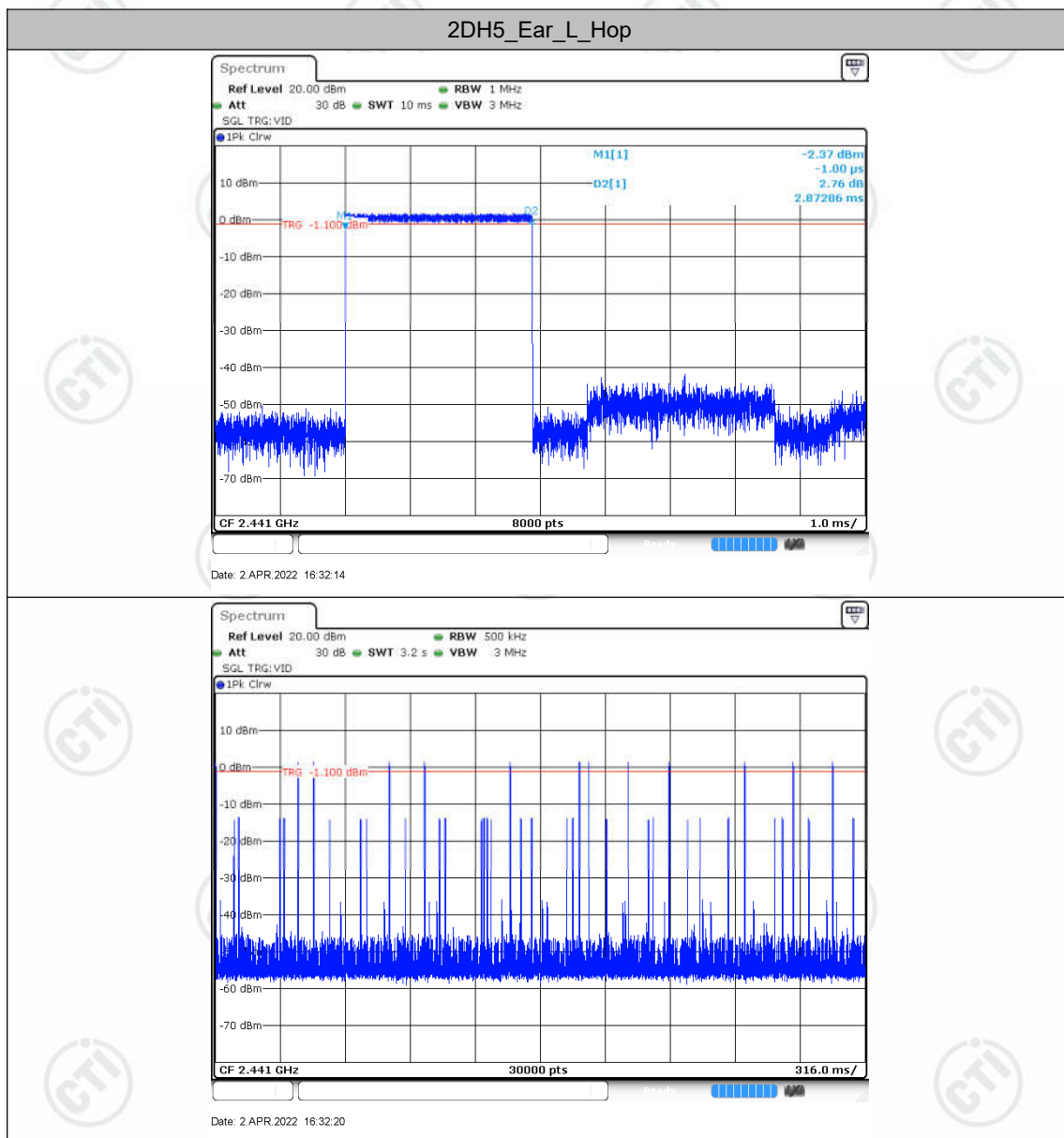










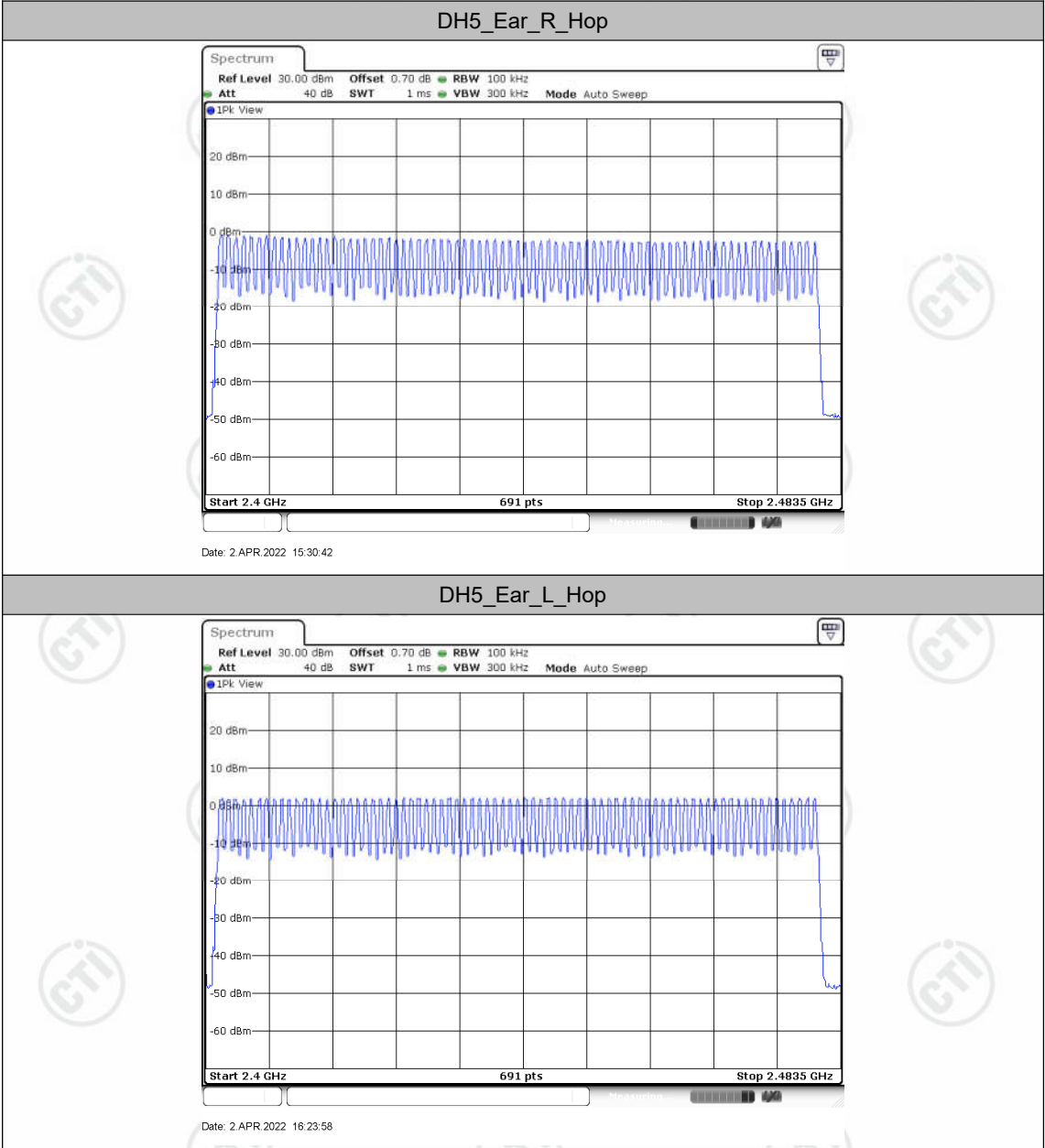


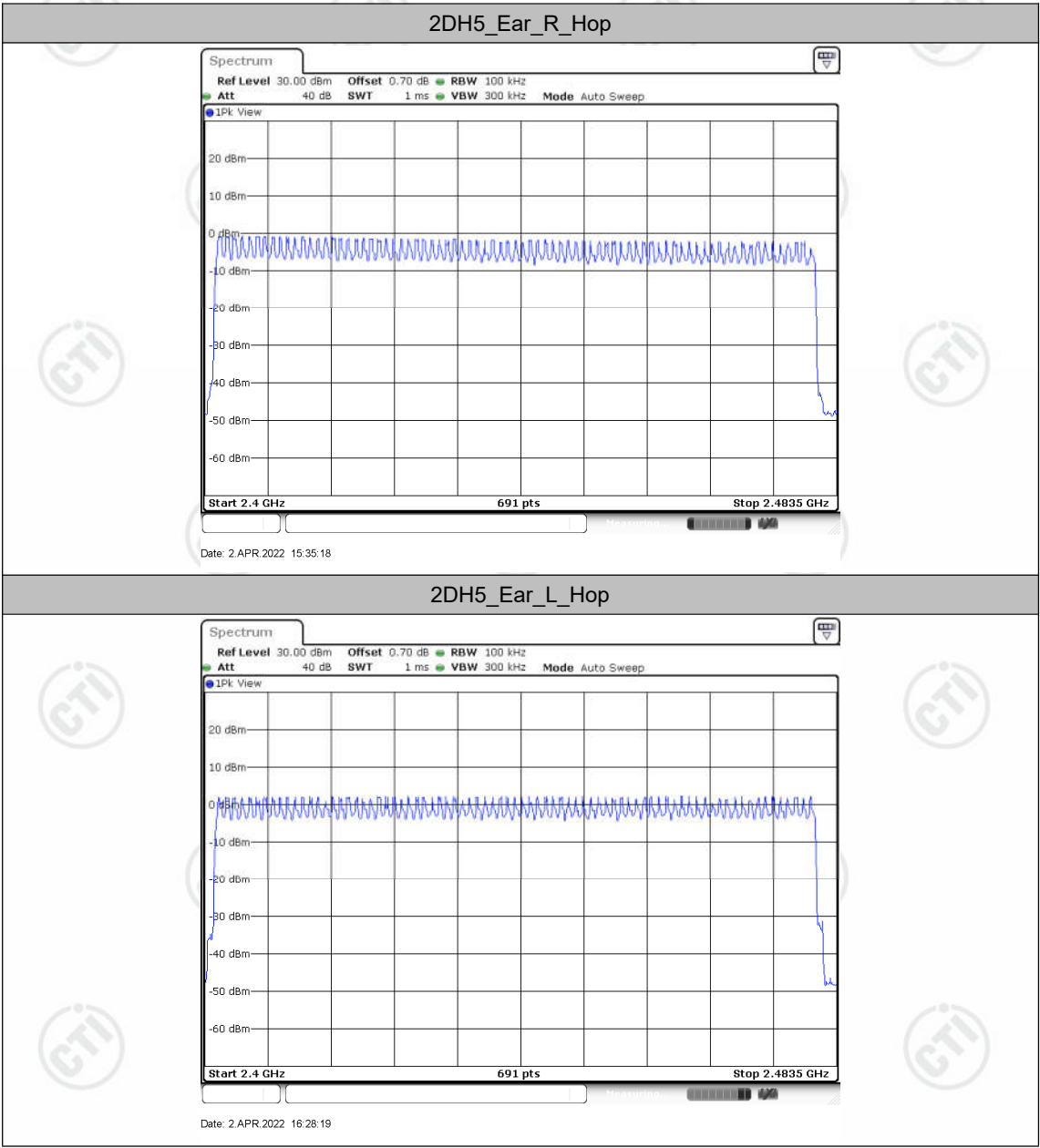
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ear_R	Hop	79	>=15	PASS
	Ear_L	Hop	79	>=15	PASS
2DH5	Ear_R	Hop	79	>=15	PASS
	Ear_L	Hop	79	>=15	PASS

Test Graphs



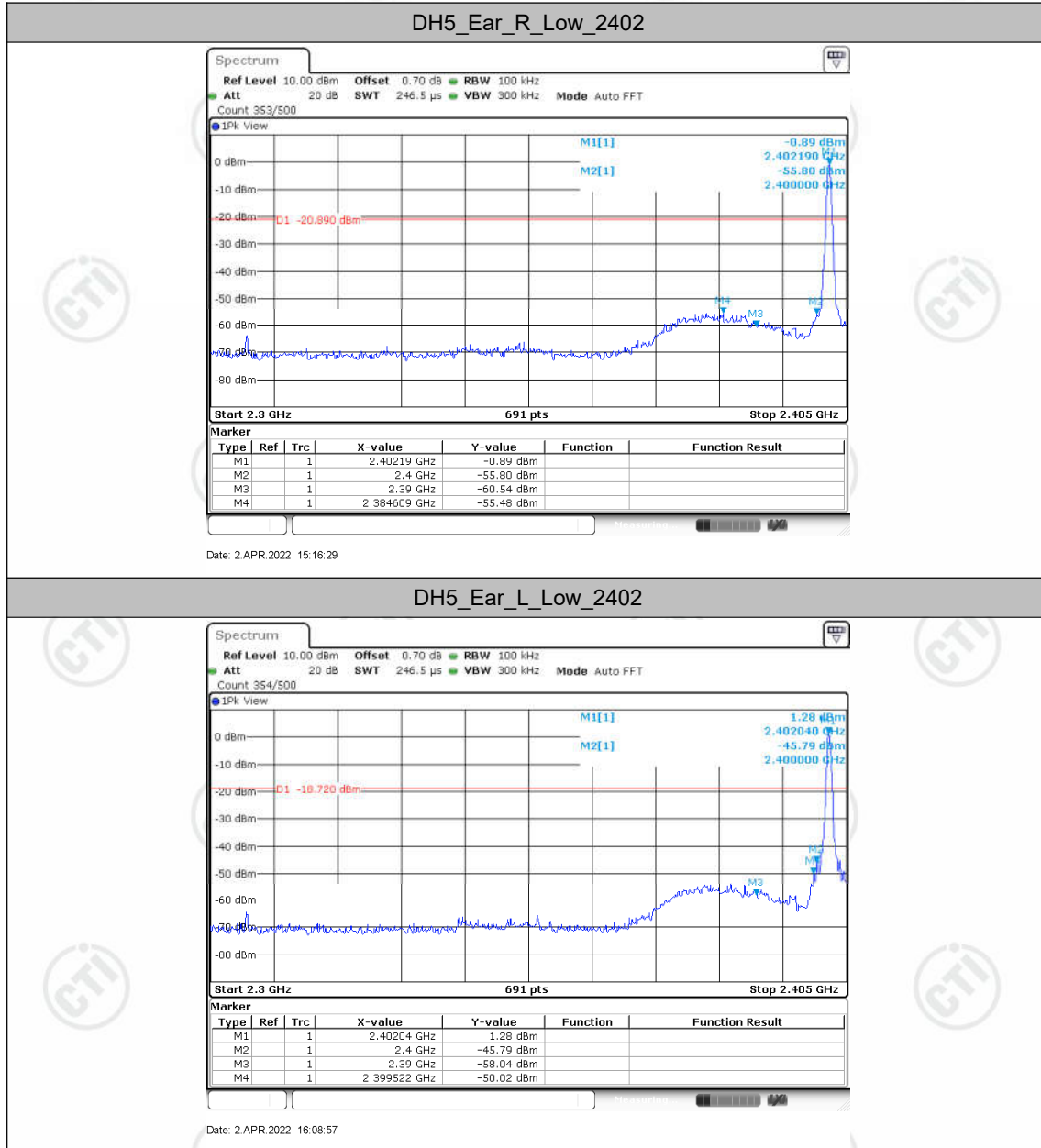


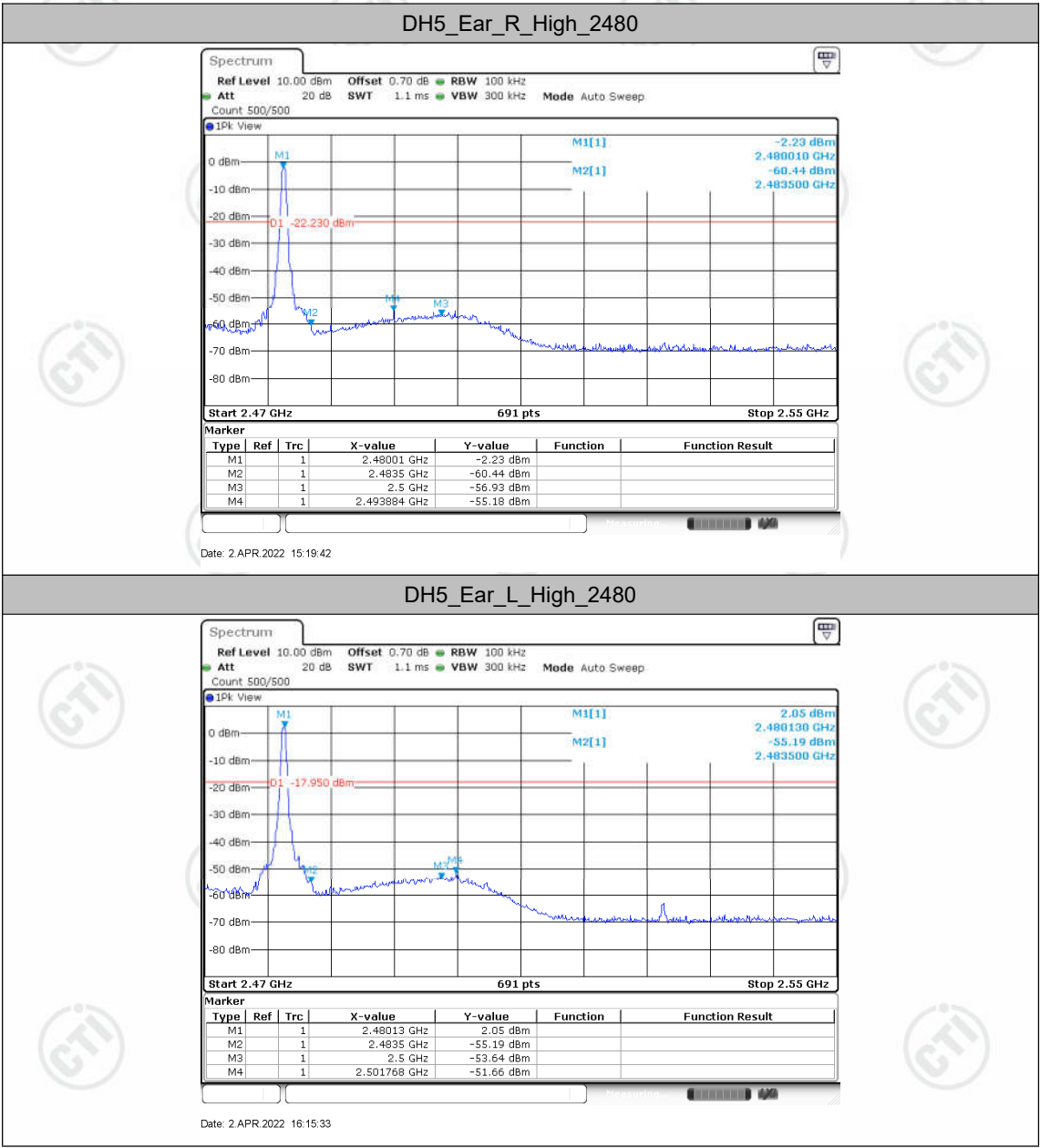
Appendix G:Band edge measurements

Test Result

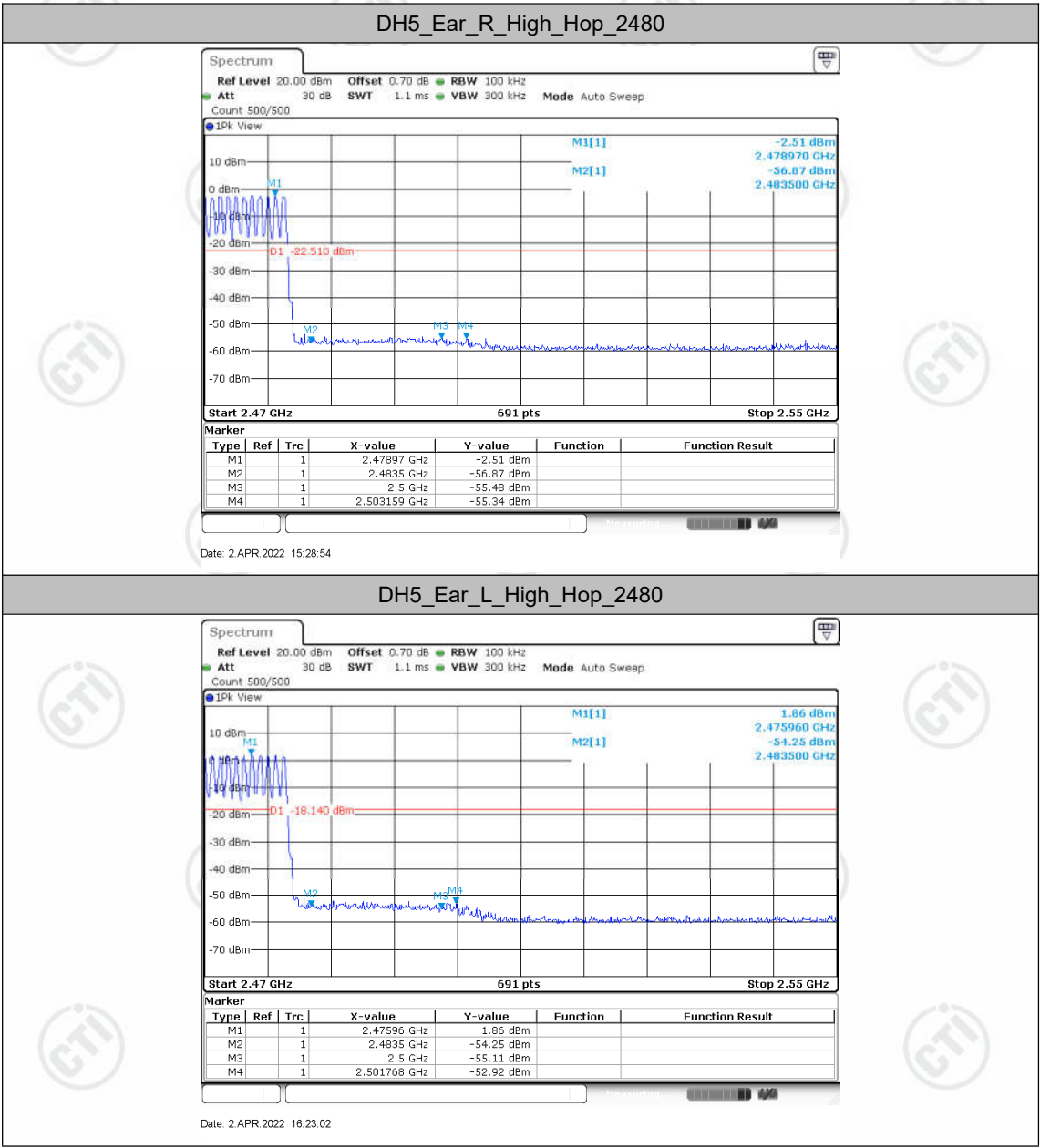
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ear_R	Low	2402	-0.89	-55.48	<=-20.89	PASS
	Ear_L	Low	2402	1.28	-50.02	<=-18.72	PASS
	Ear_R	High	2480	-2.23	-55.18	<=-22.23	PASS
	Ear_L	High	2480	2.05	-51.66	<=-17.95	PASS
	Ear_R	Low	Hop_2402	-1.39	-53.89	<=-21.39	PASS
	Ear_L	Low	Hop_2402	1.49	-53.07	<=-18.51	PASS
	Ear_R	High	Hop_2480	-2.51	-55.34	<=-22.51	PASS
	Ear_L	High	Hop_2480	1.86	-52.92	<=-18.14	PASS
2DH5	Ear_R	Low	2402	-0.75	-55.4	<=-20.75	PASS
	Ear_L	Low	2402	1.75	-50.18	<=-18.25	PASS
	Ear_R	High	2480	-2.40	-55.15	<=-22.4	PASS
	Ear_L	High	2480	2.04	-51.86	<=-17.96	PASS
	Ear_R	Low	Hop_2402	-2.26	-53.23	<=-22.26	PASS
	Ear_L	Low	Hop_2402	1.95	-52.17	<=-18.05	PASS
	Ear_R	High	Hop_2480	-2.18	-54.39	<=-22.18	PASS
	Ear_L	High	Hop_2480	2.10	-51.66	<=-17.9	PASS

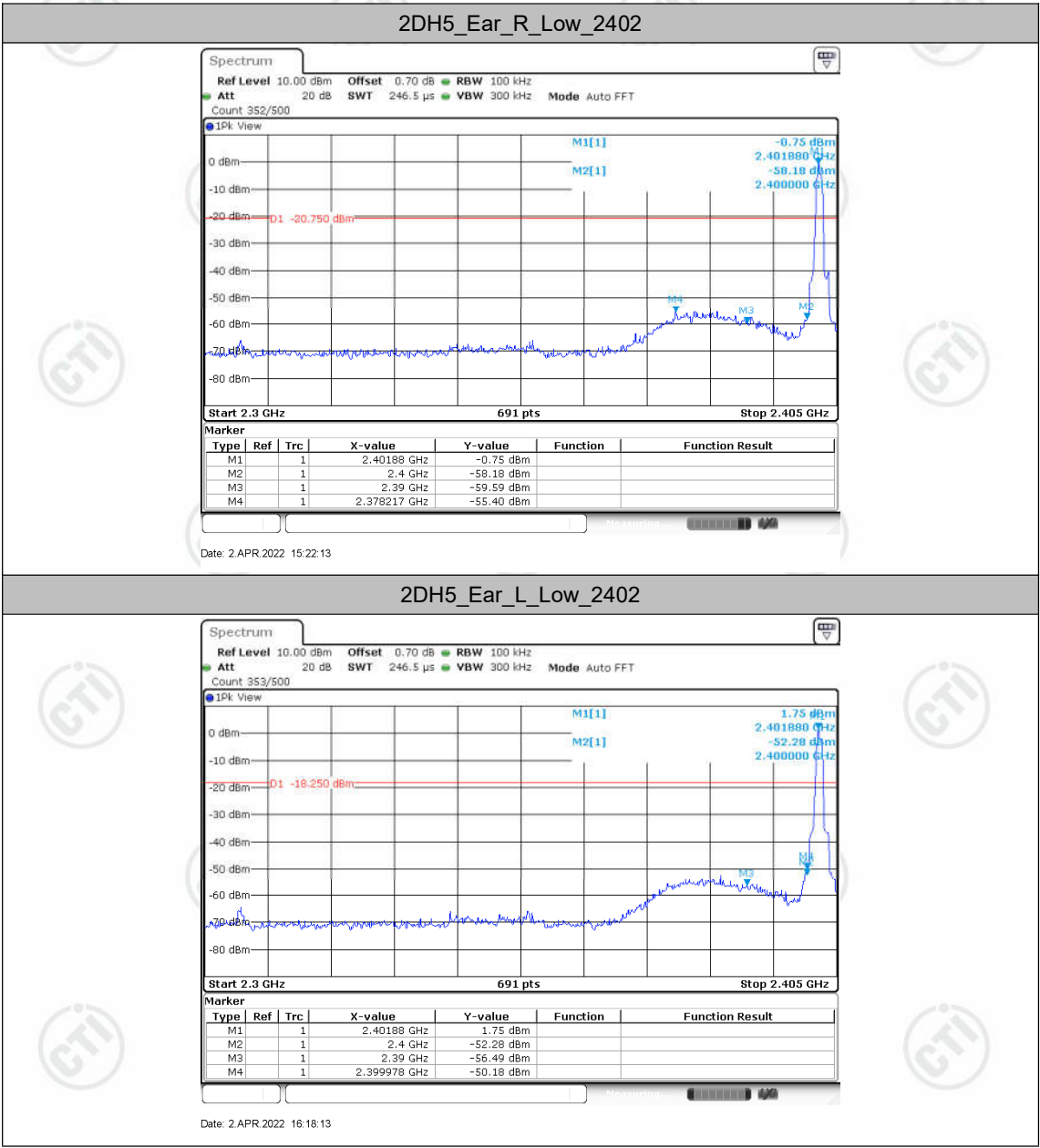
Test Graphs

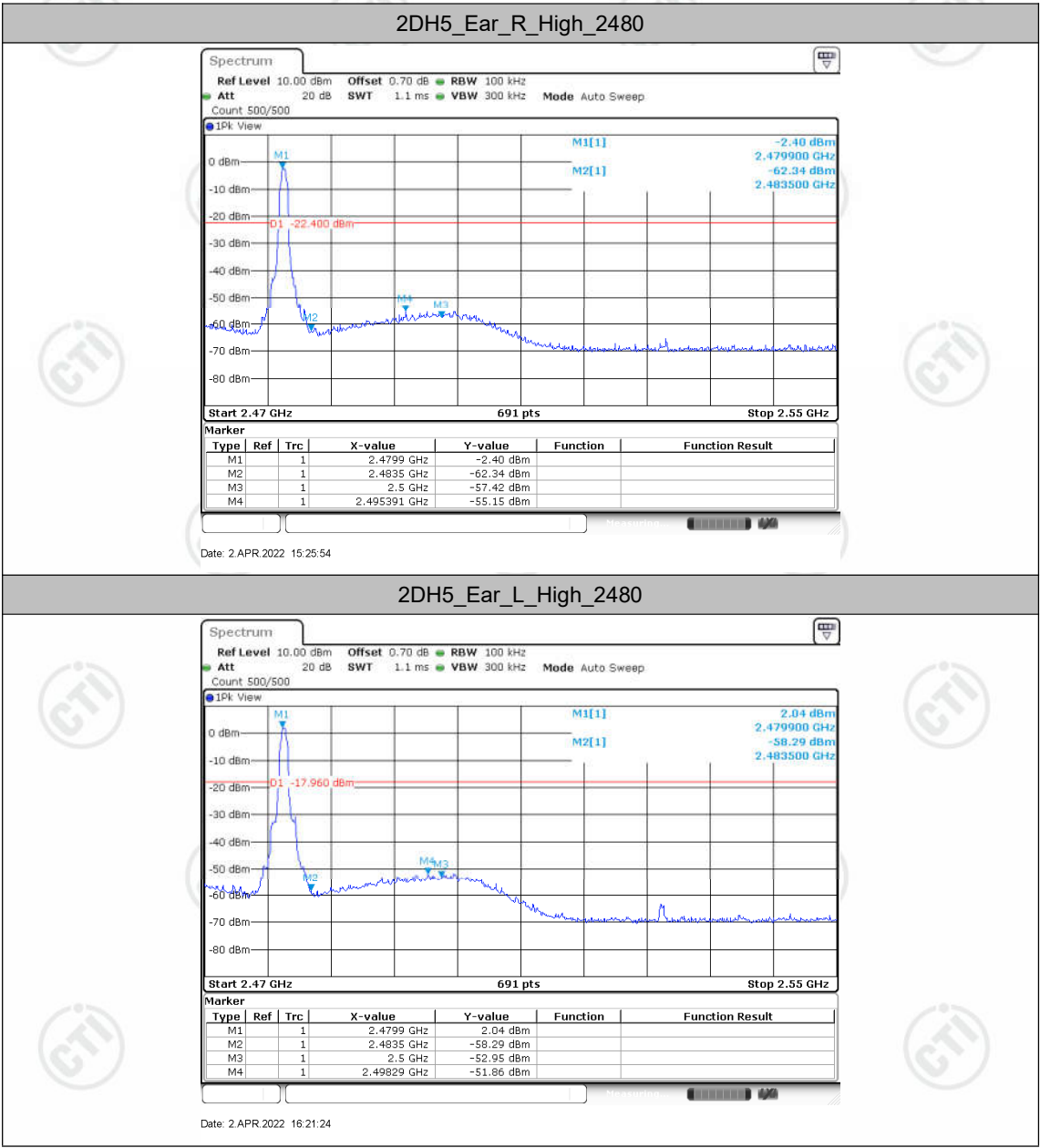


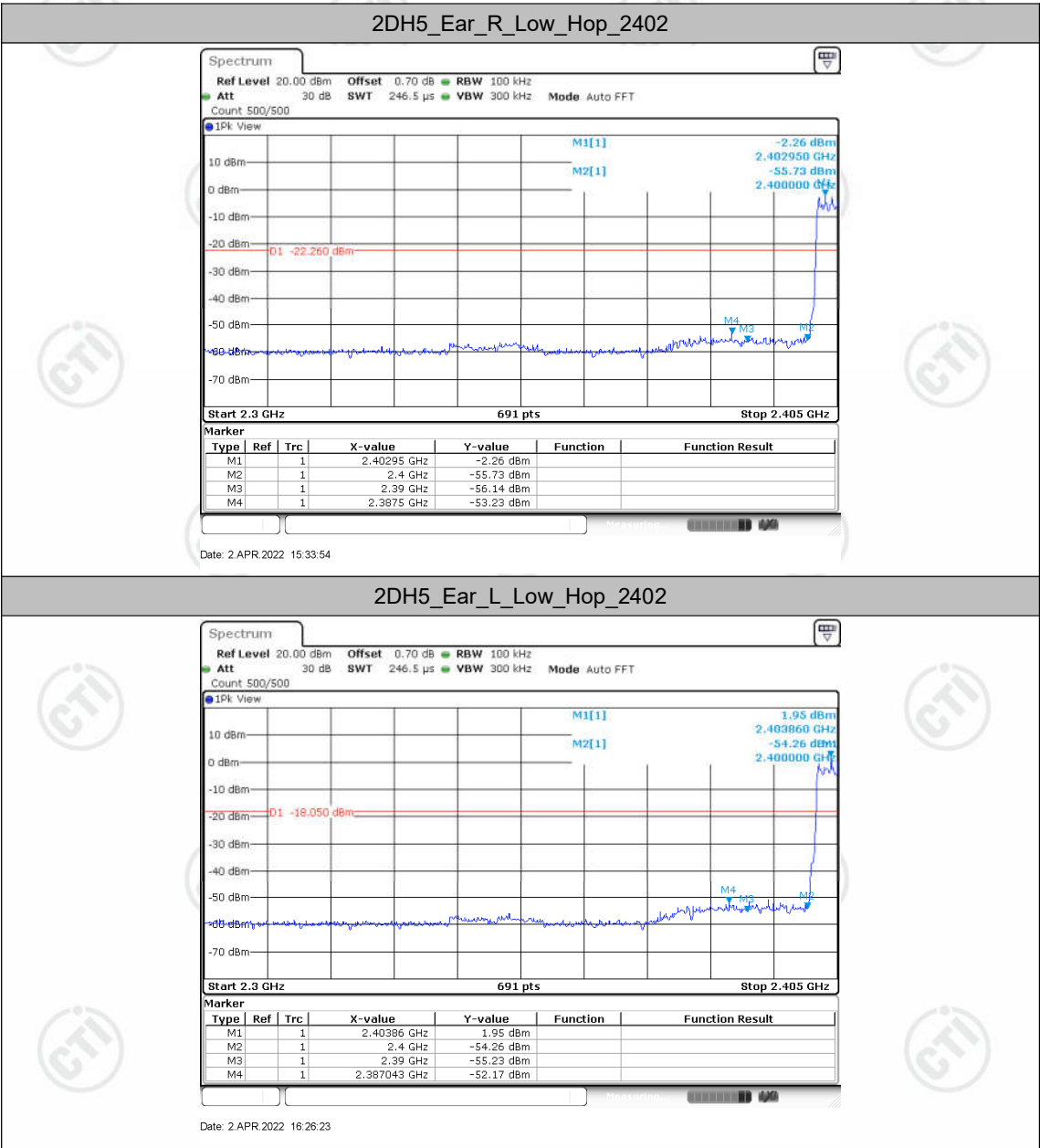














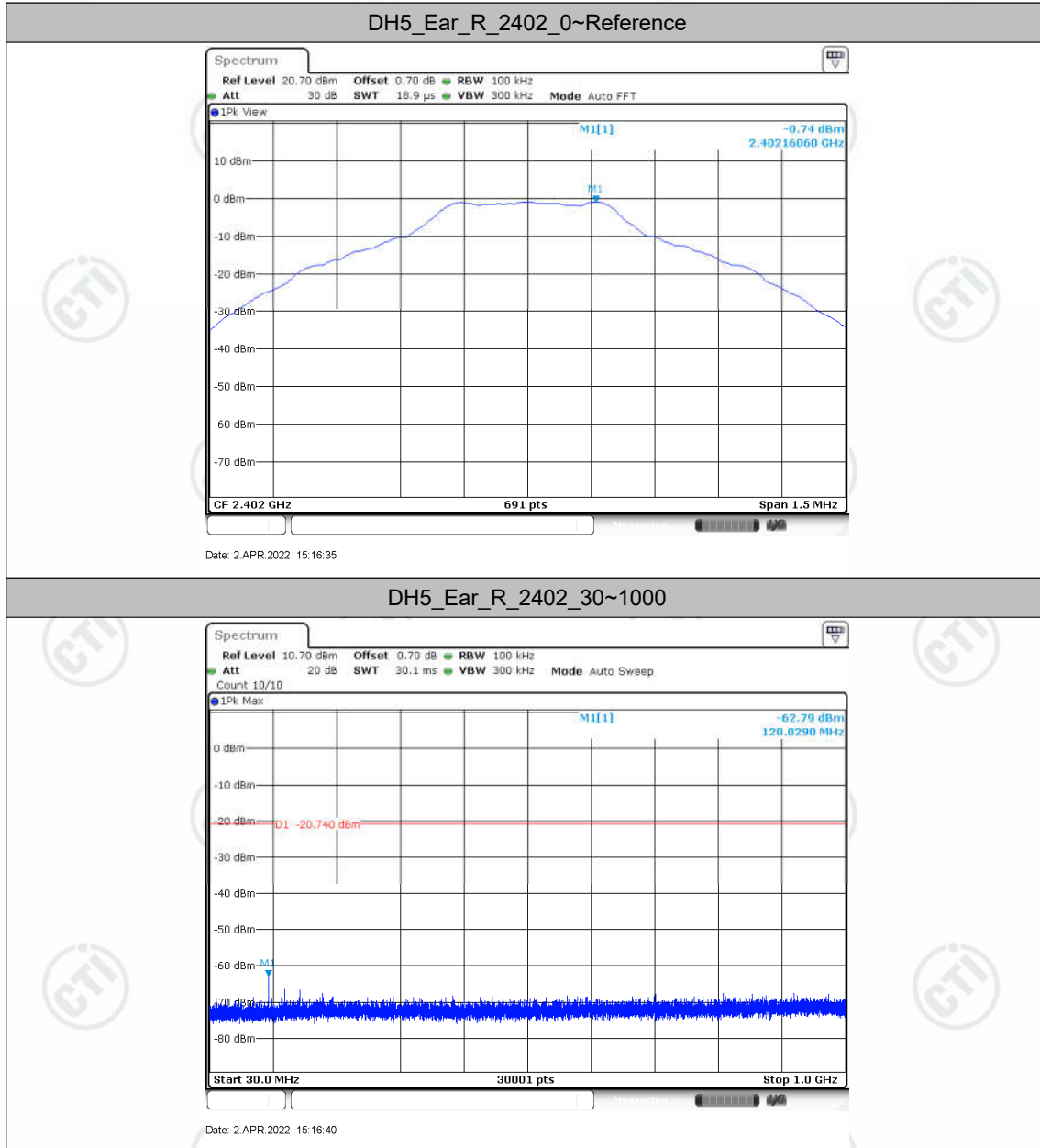
Appendix H:Conducted Spurious Emission

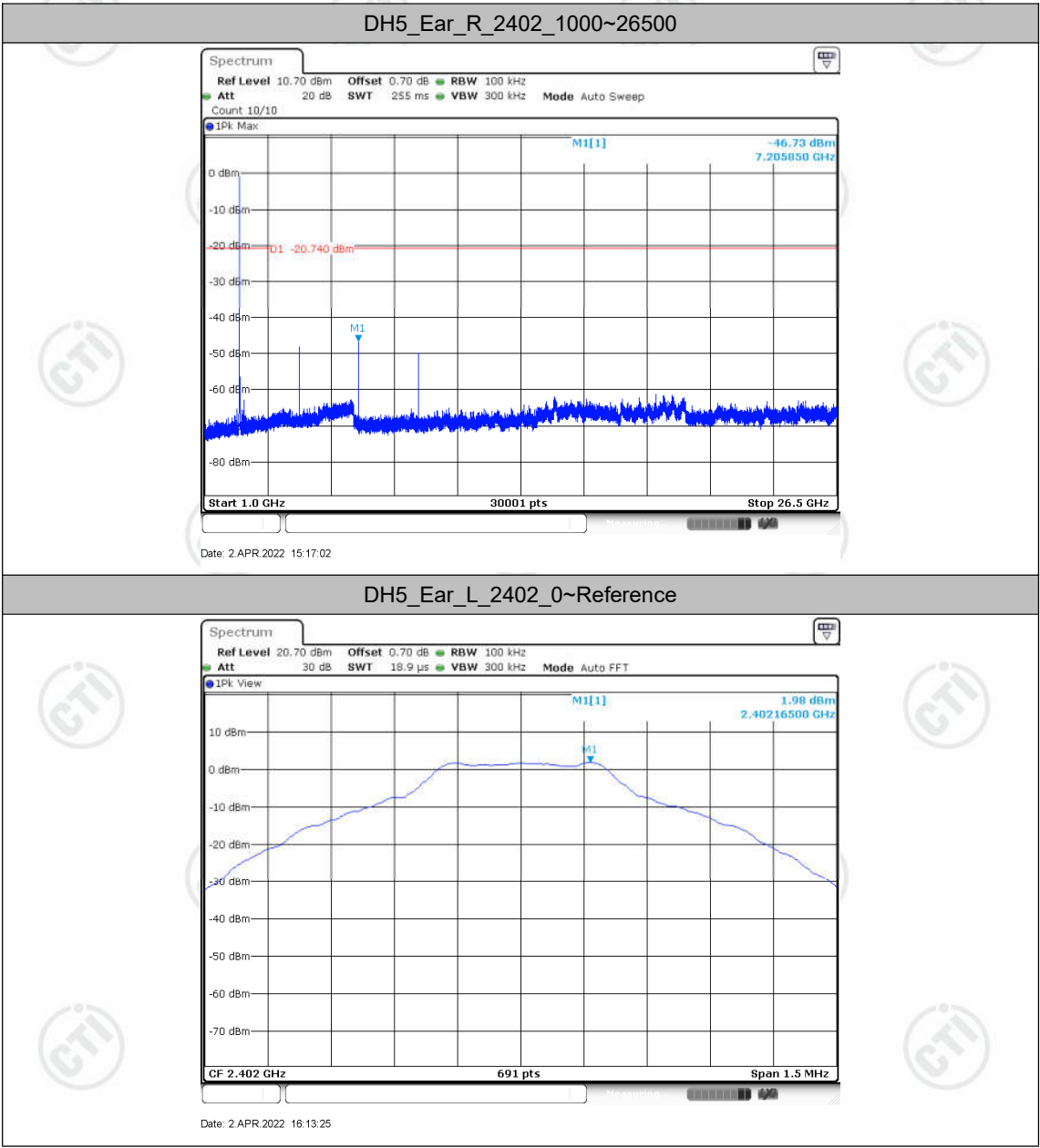
Test Result

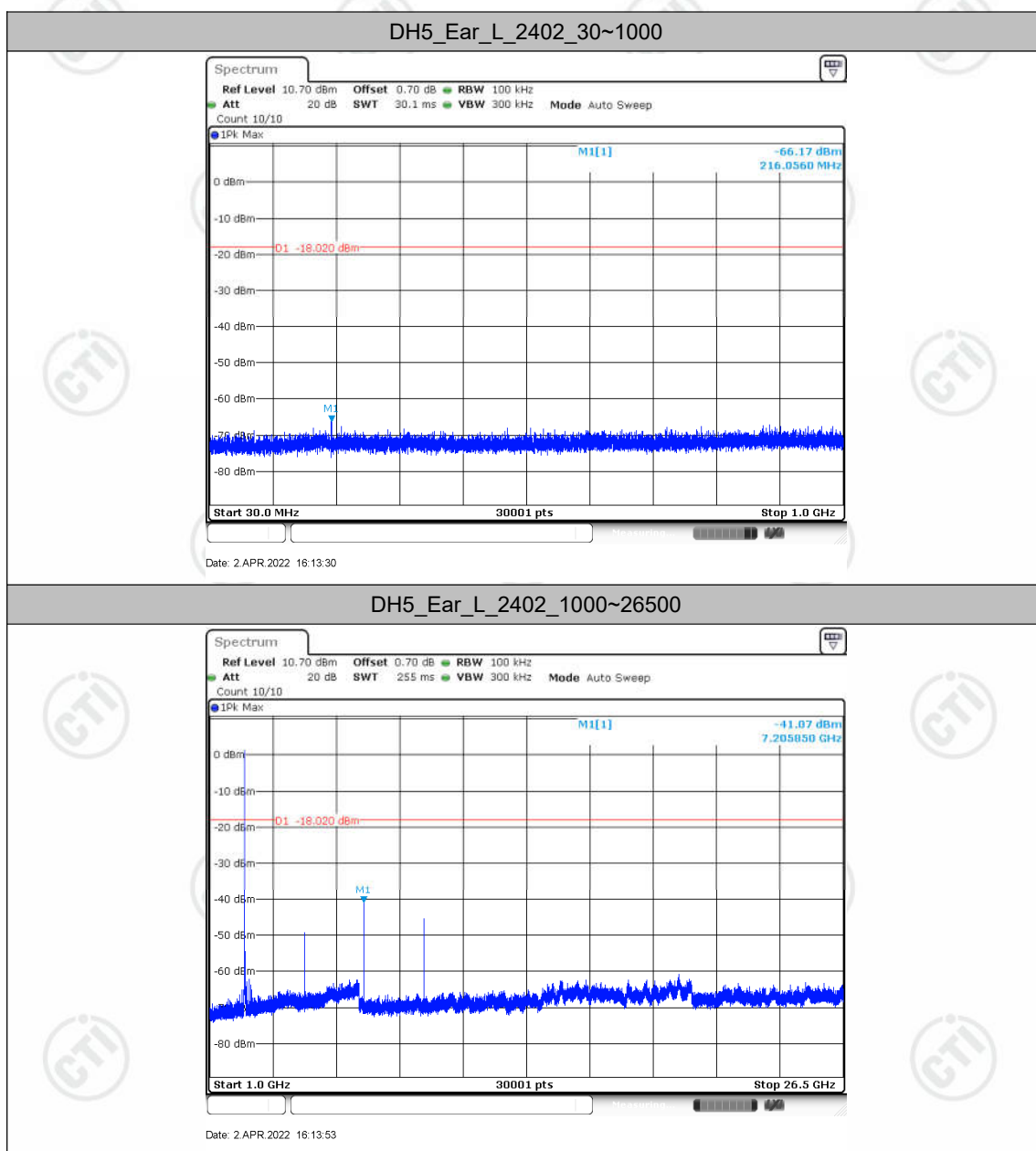
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ear_R	2402	Reference	-0.74	-0.74	---	PASS
			30~1000	---	-62.79	<=-20.74	PASS
			1000~26500	---	-46.73	<=-20.74	PASS
	Ear_L	2402	Reference	1.98	1.98	---	PASS
			30~1000	---	-66.17	<=-18.02	PASS
			1000~26500	---	-41.07	<=-18.02	PASS
	Ear_R	2441	Reference	-2.21	-2.21	---	PASS
			30~1000	---	-44.46	<=-22.21	PASS
			1000~26500	---	-44.04	<=-22.21	PASS
	Ear_L	2441	Reference	2.05	2.05	---	PASS
			30~1000	---	-67.3	<=-17.95	PASS
			1000~26500	---	-41.18	<=-17.95	PASS
	Ear_R	2480	Reference	-2.33	-2.33	---	PASS
			30~1000	---	-63.16	<=-22.33	PASS
			1000~26500	---	-40.8	<=-22.33	PASS
	Ear_L	2480	Reference	2.05	2.05	---	PASS
			30~1000	---	-67.42	<=-17.95	PASS
			1000~26500	---	-39.4	<=-17.95	PASS

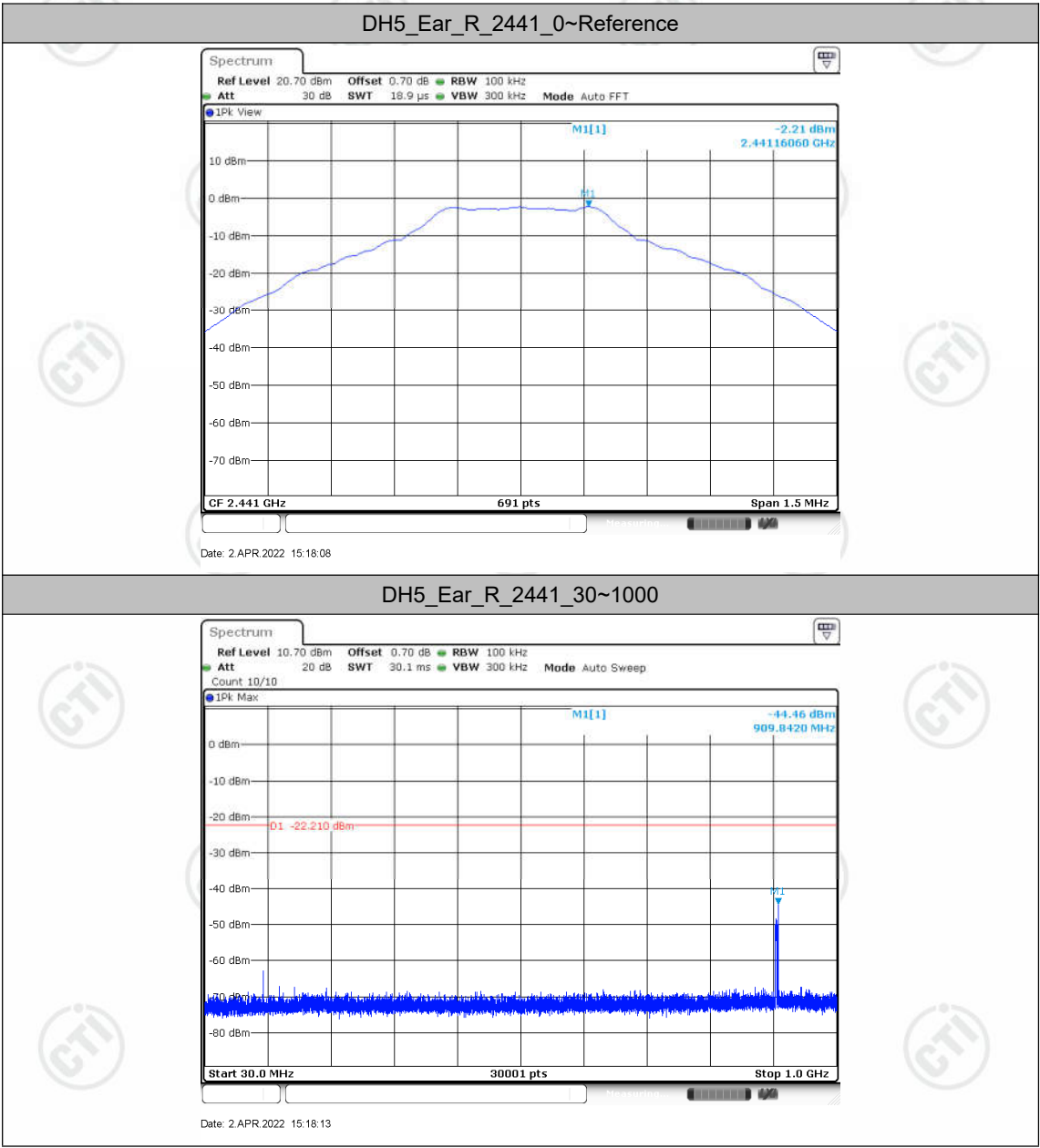
2DH5	Ear_R	2402	Reference	-0.74	-0.74	---	PASS
			30~1000	---	-62.97	<=-20.74	PASS
			1000~26500	---	-49.63	<=-20.74	PASS
	Ear_L	2402	Reference	1.90	1.90	---	PASS
			30~1000	---	-67.1	<=-18.1	PASS
			1000~26500	---	-45.73	<=-18.1	PASS
	Ear_R	2441	Reference	-2.21	-2.21	---	PASS
			30~1000	---	-61.65	<=-22.21	PASS
			1000~26500	---	-45.39	<=-22.21	PASS
	Ear_L	2441	Reference	2.07	2.07	---	PASS
			30~1000	---	-66.88	<=-17.93	PASS
			1000~26500	---	-44.73	<=-17.93	PASS
	Ear_R	2480	Reference	-2.34	-2.34	---	PASS
			30~1000	---	-63.77	<=-22.34	PASS
			1000~26500	---	-46.6	<=-22.34	PASS
	Ear_L	2480	Reference	2.09	2.09	---	PASS
			30~1000	---	-66.3	<=-17.91	PASS
			1000~26500	---	-41.47	<=-17.91	PASS

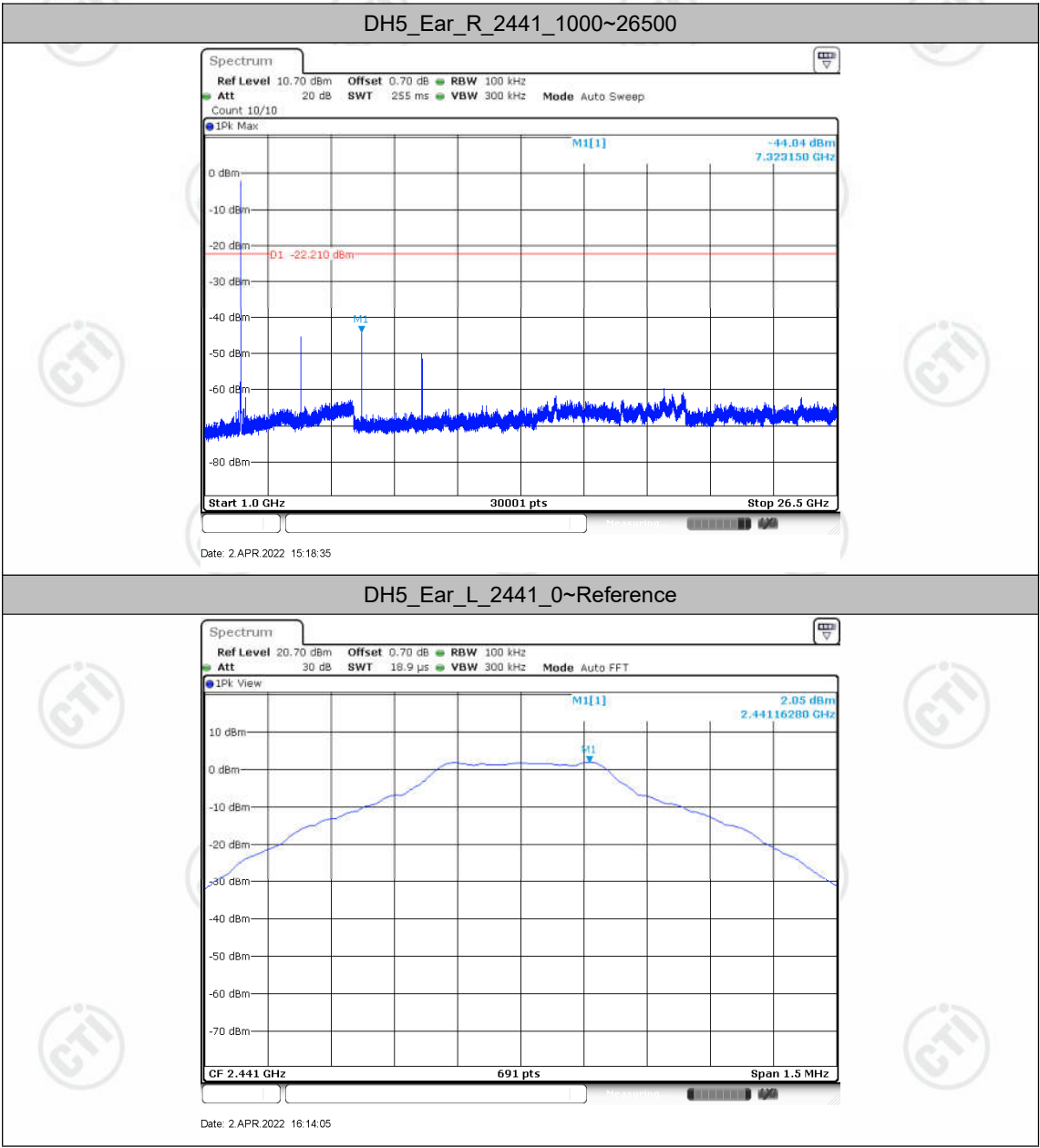
Test Graphs

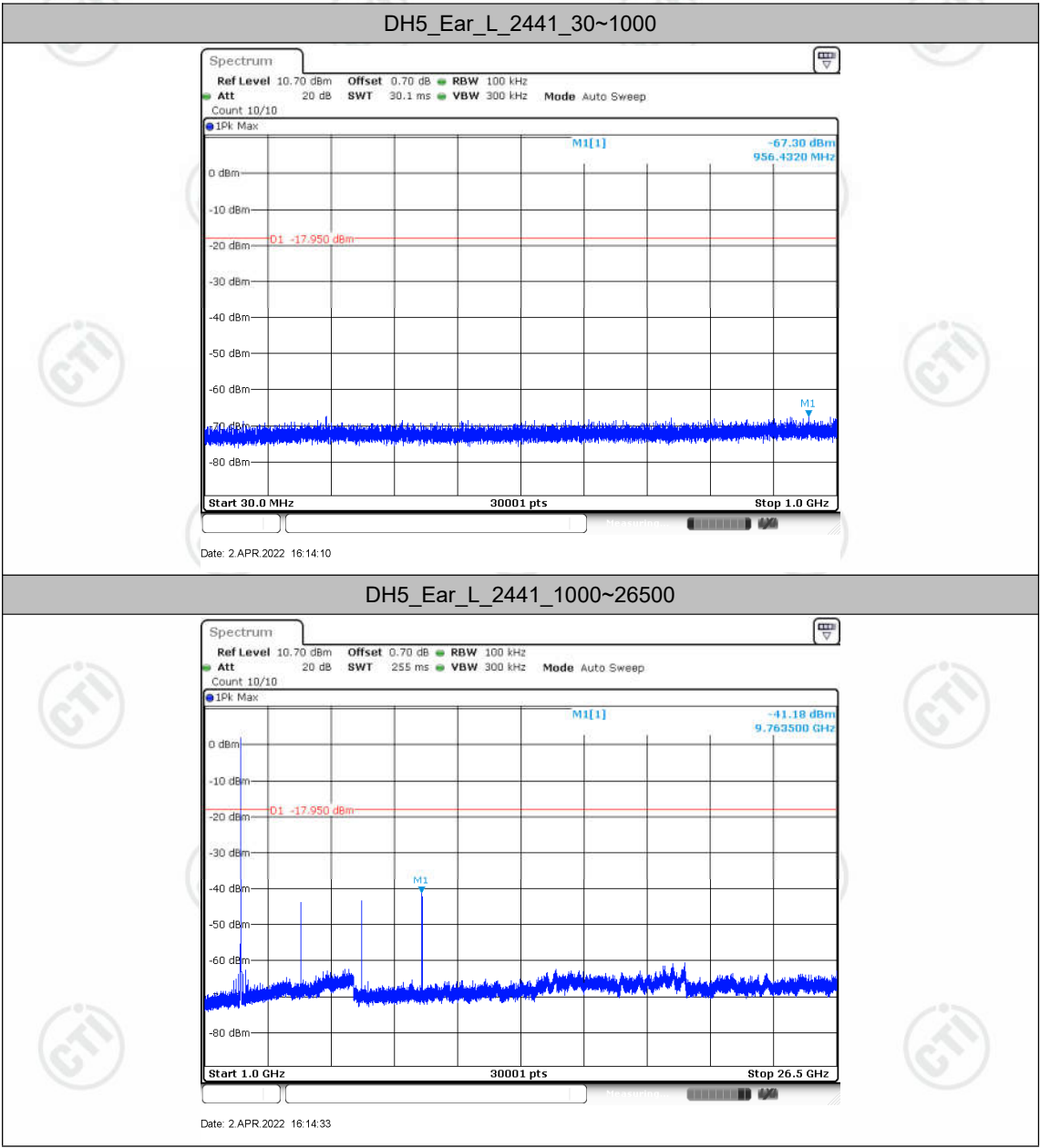


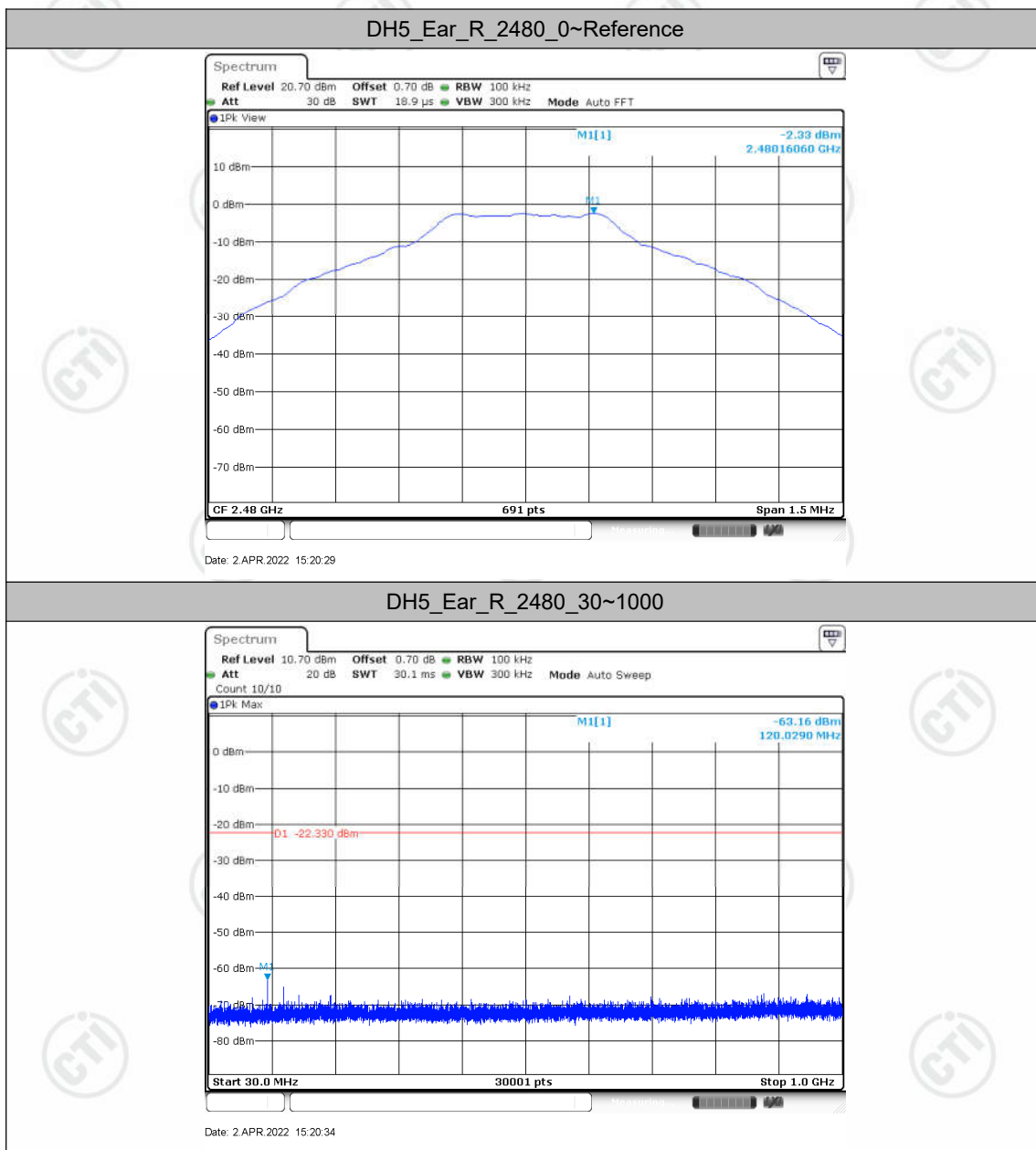


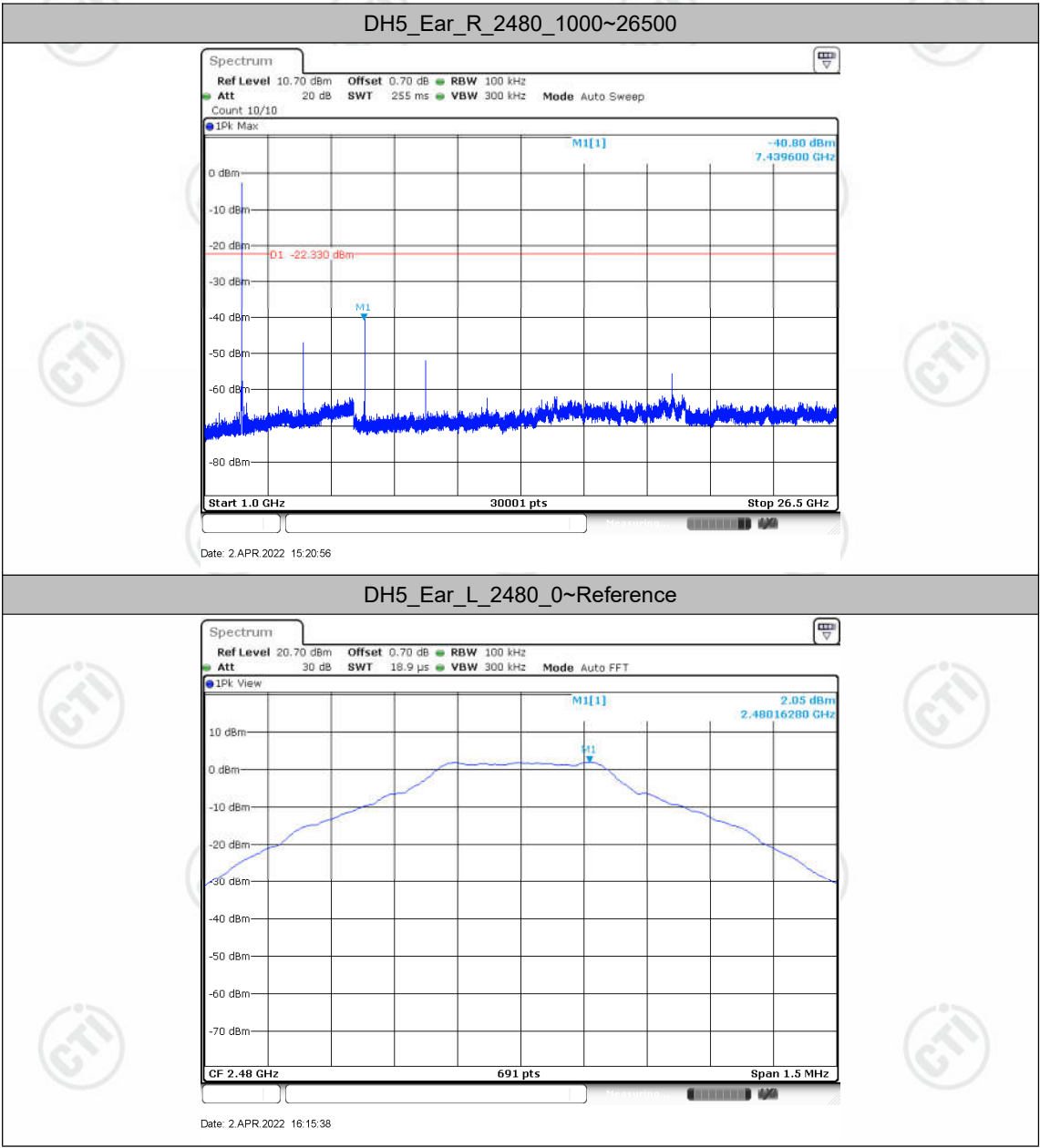


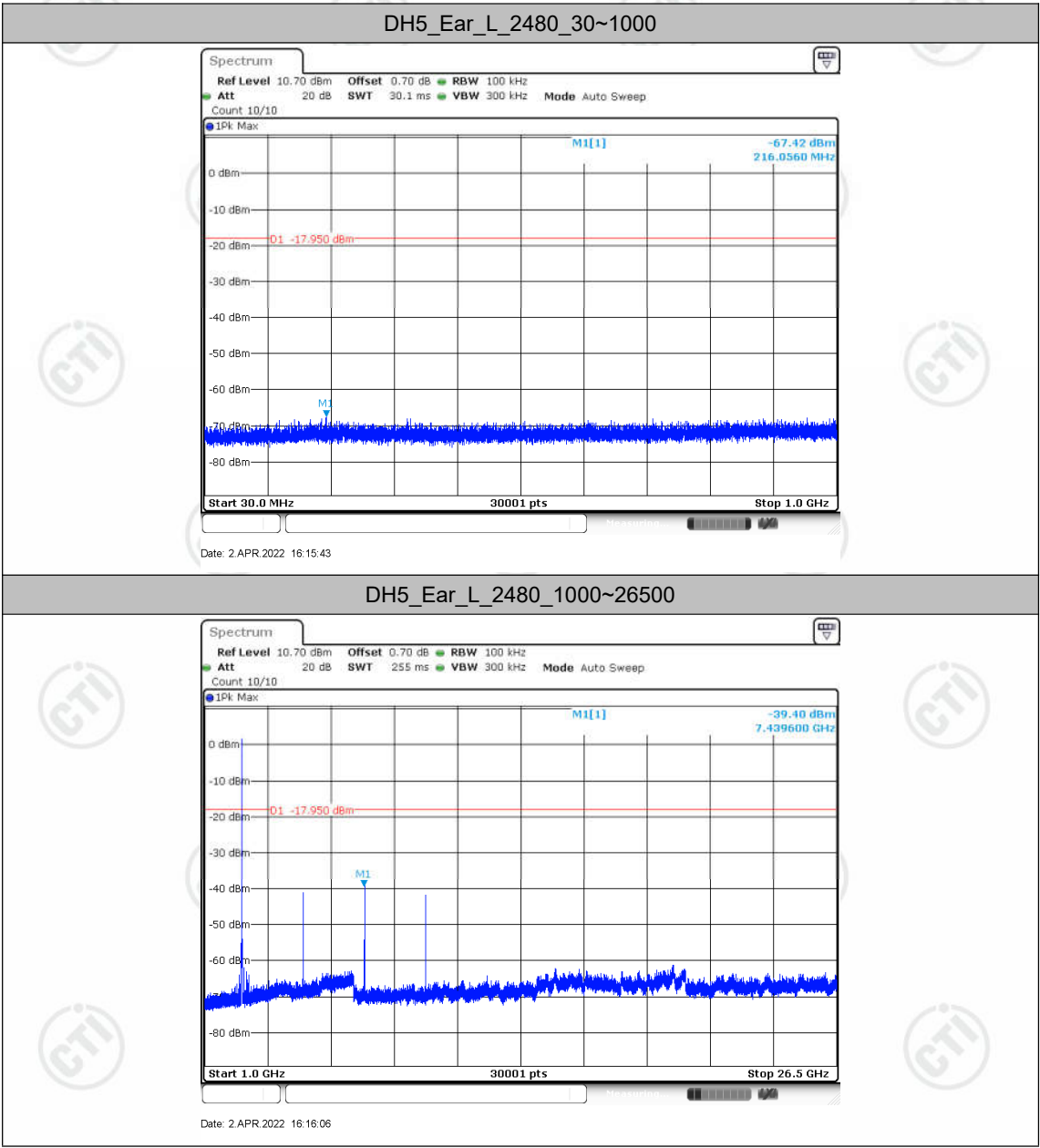


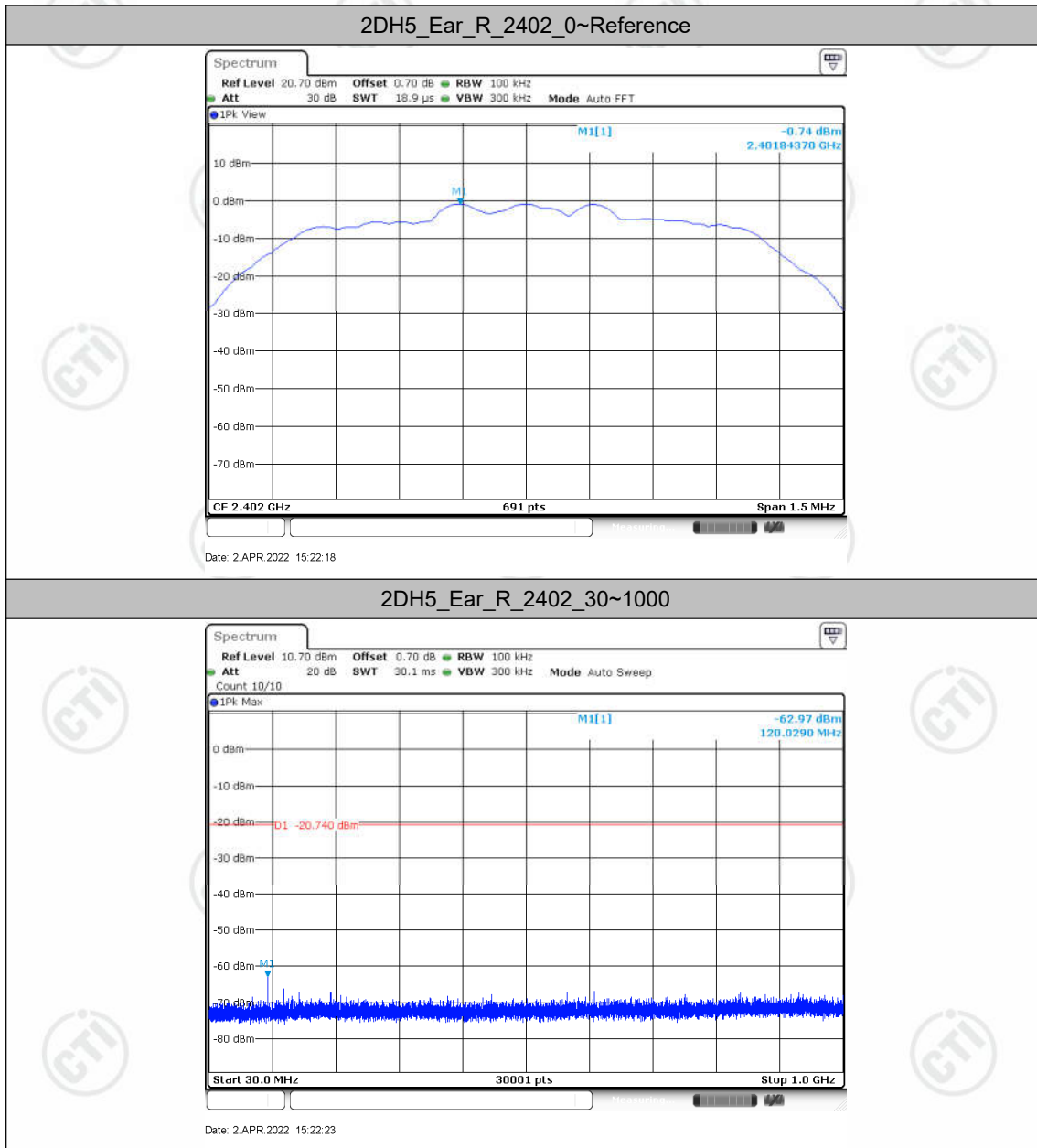


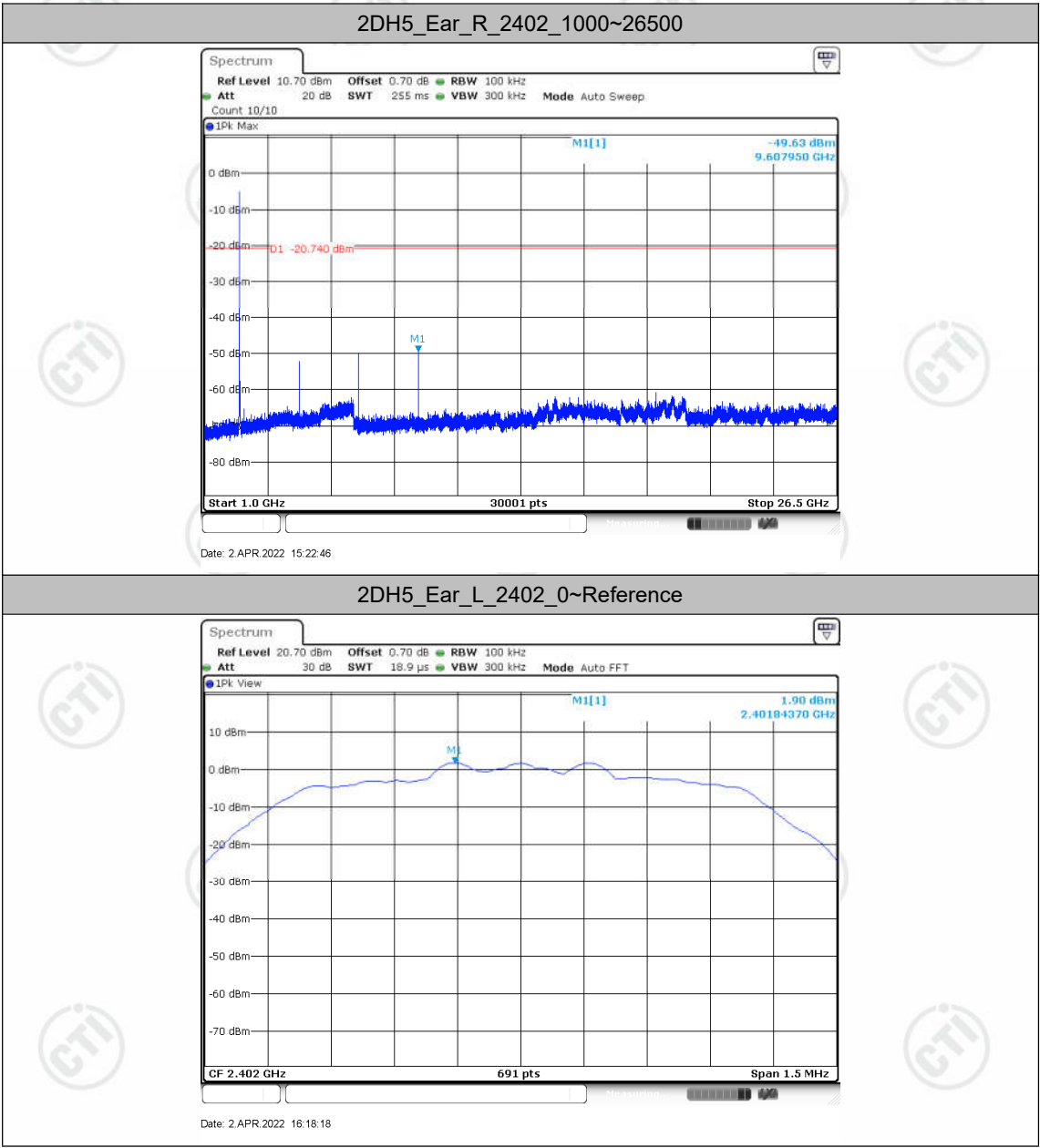


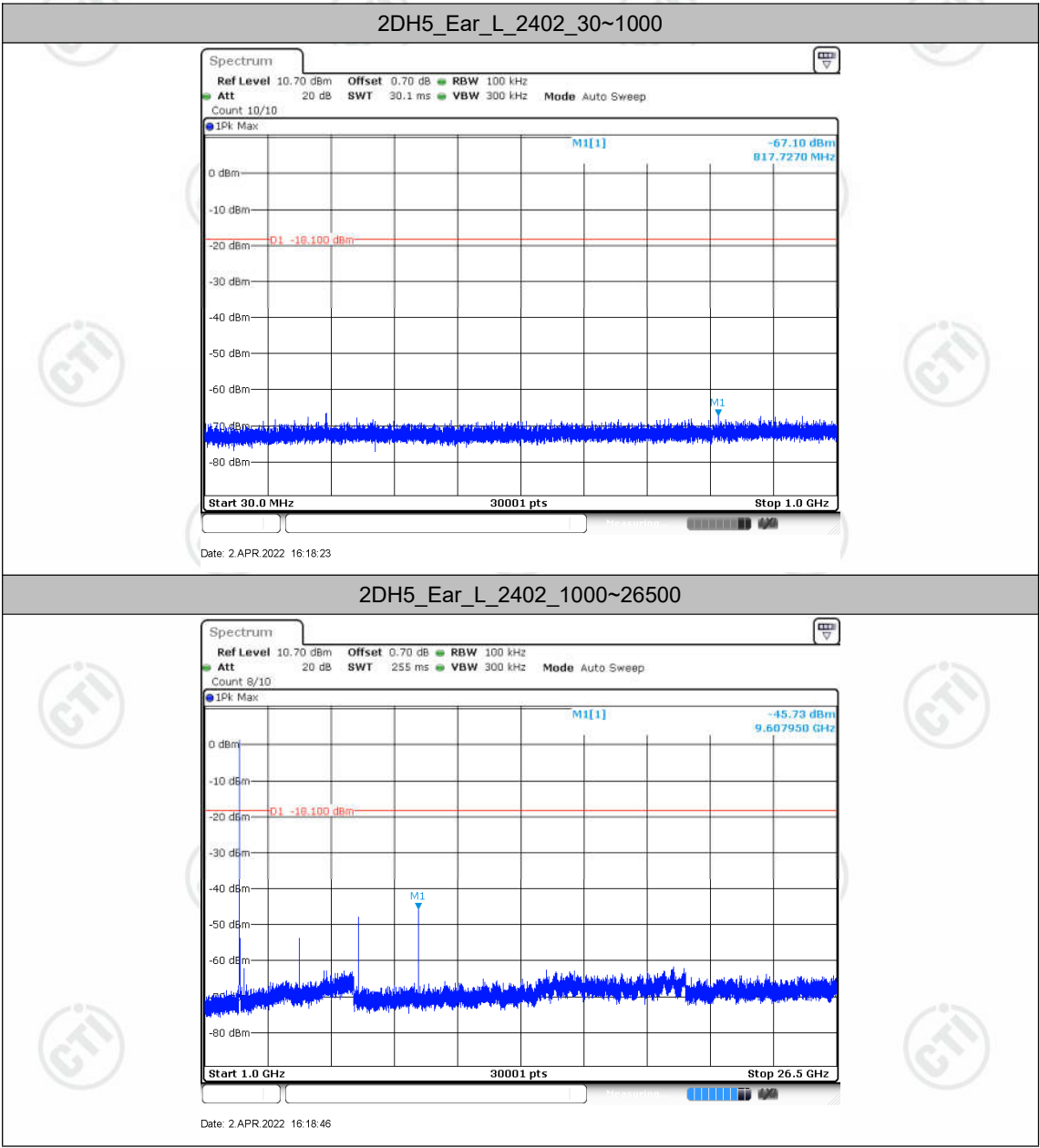


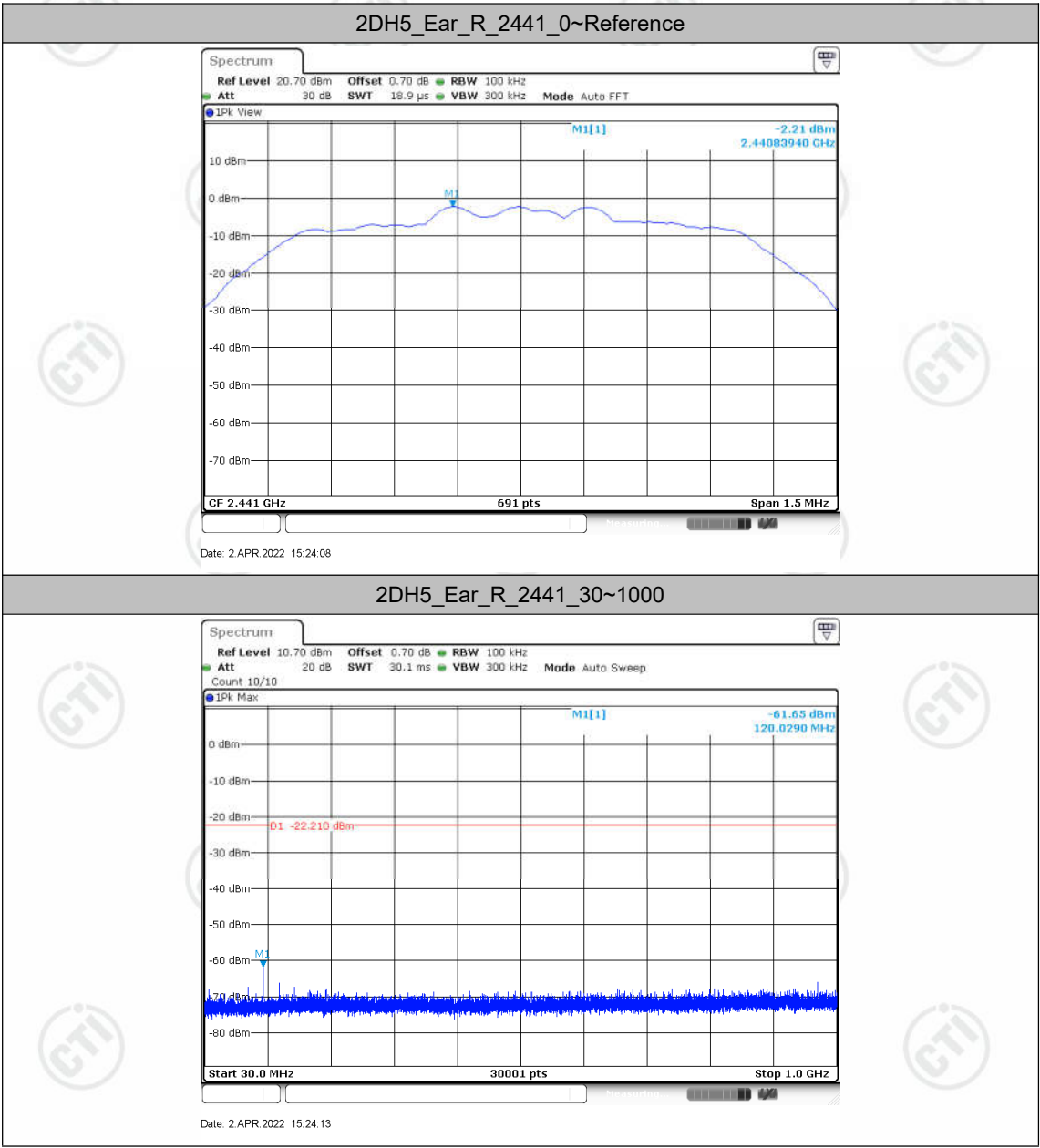


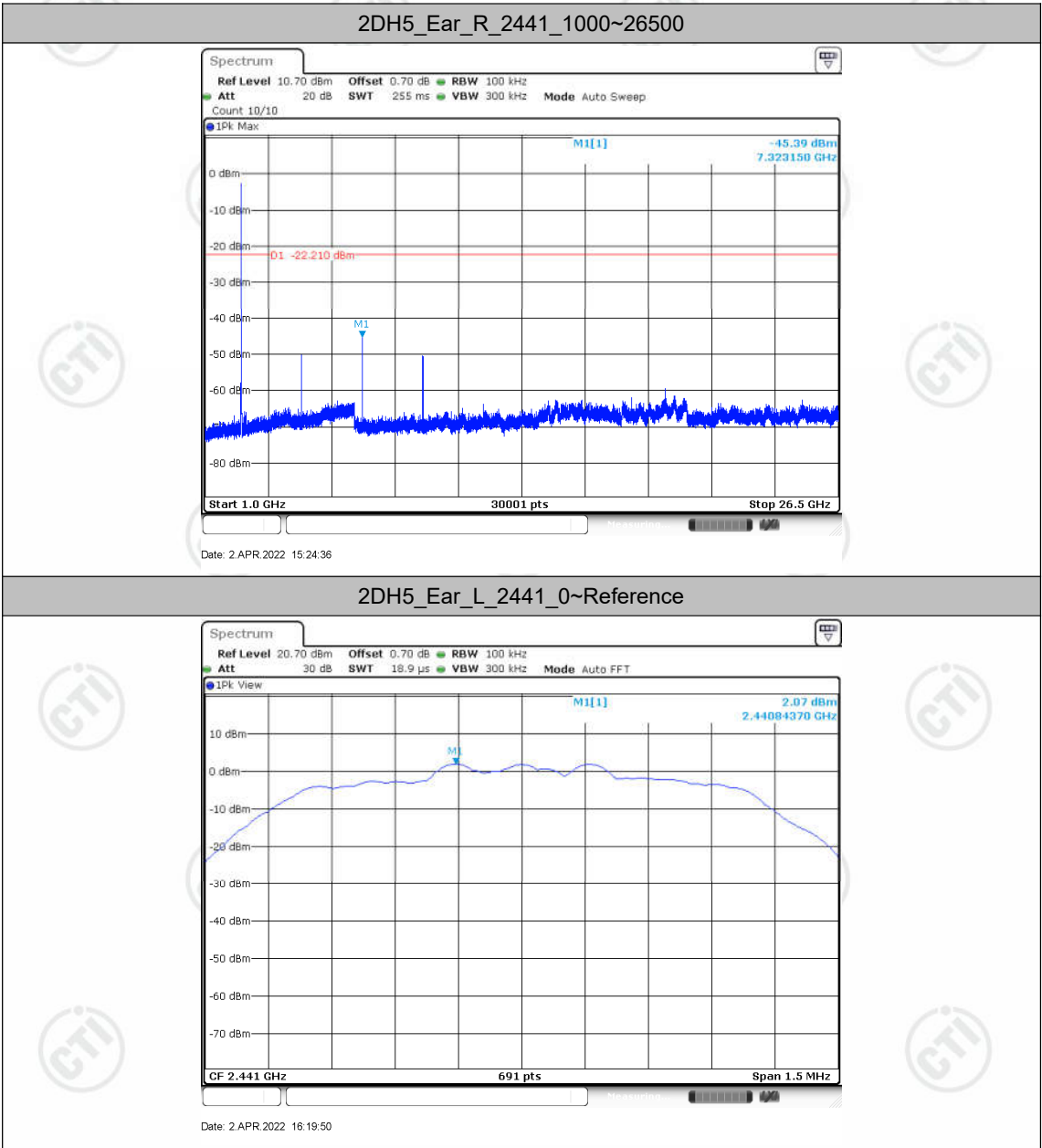


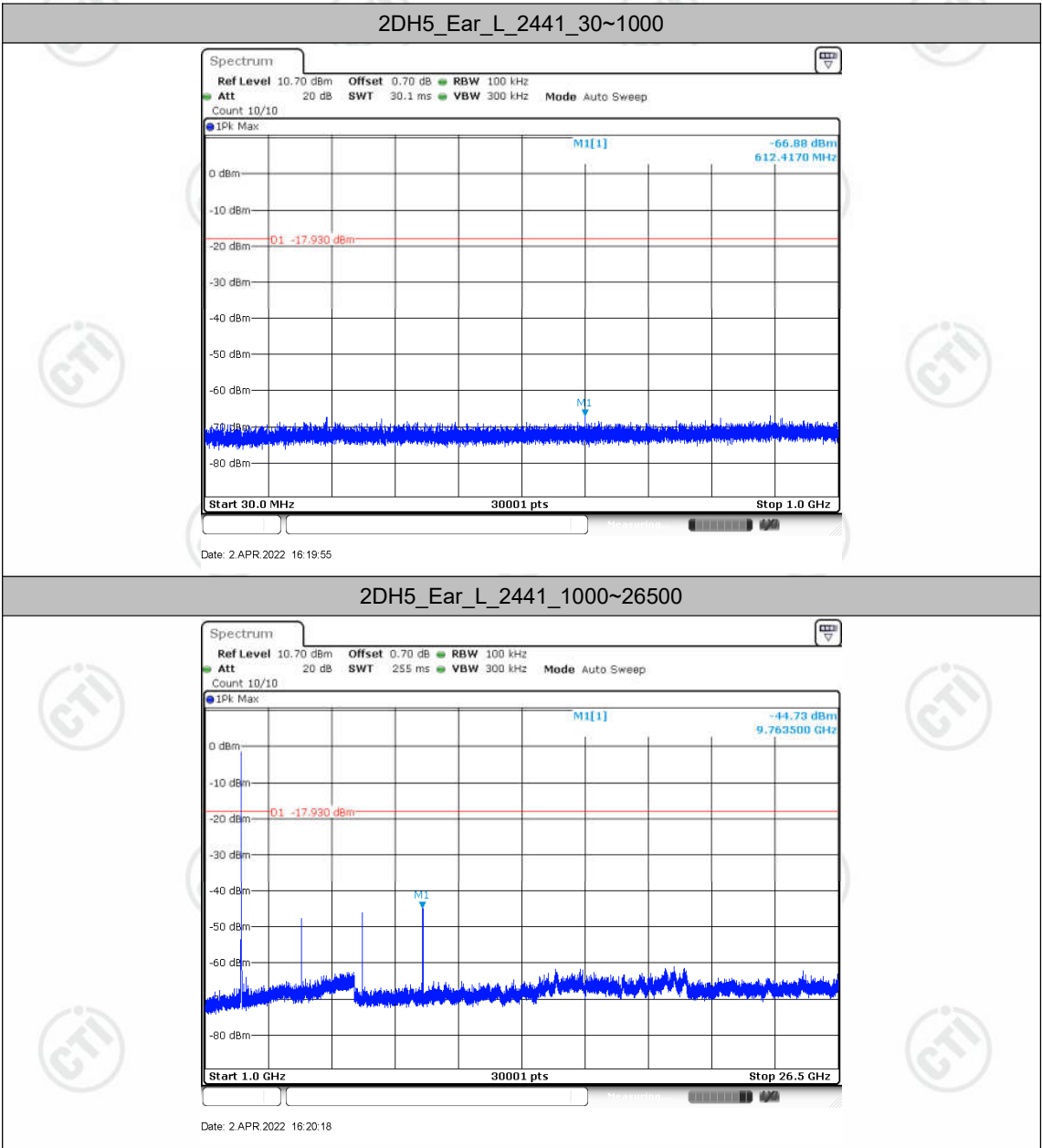


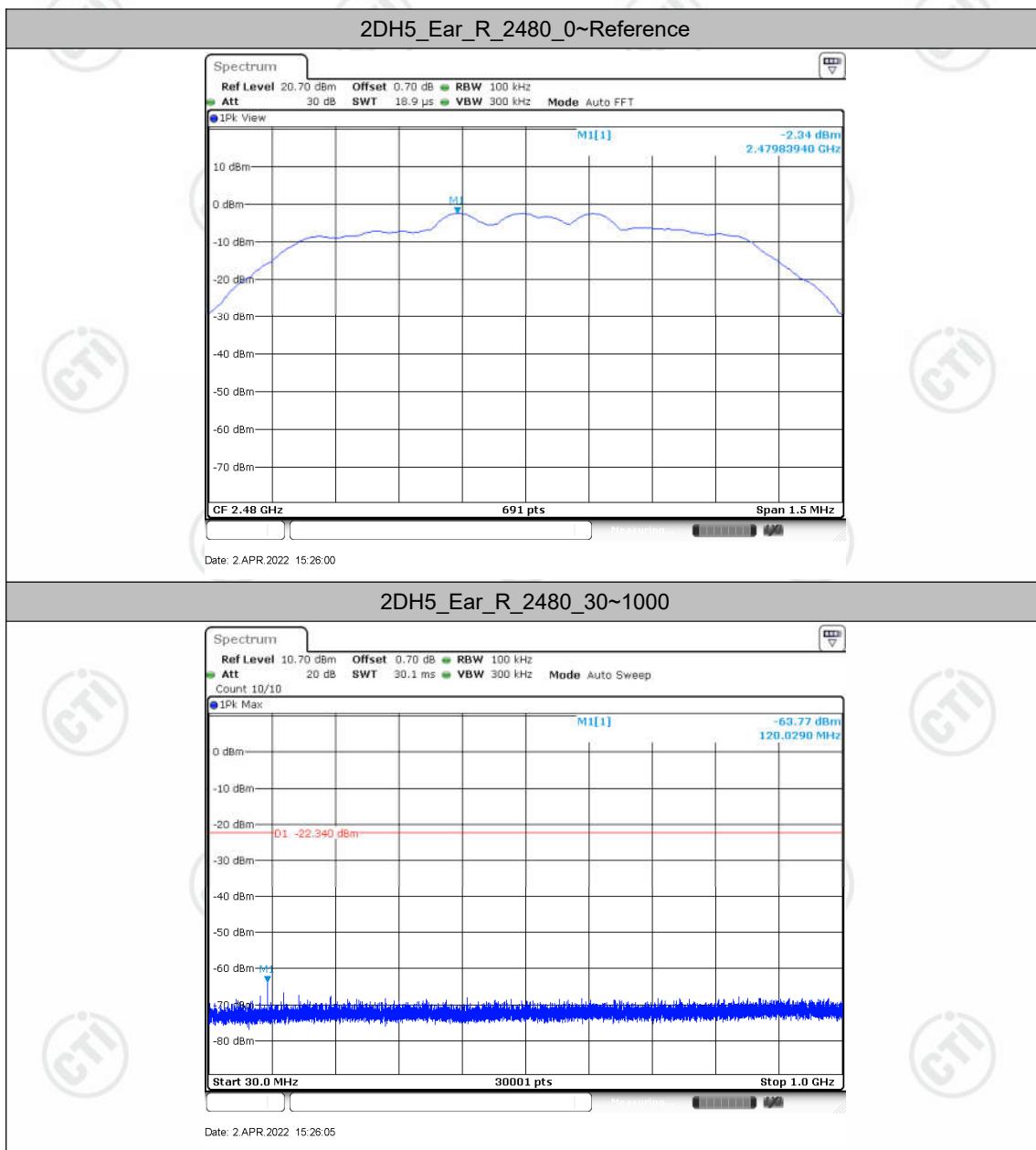


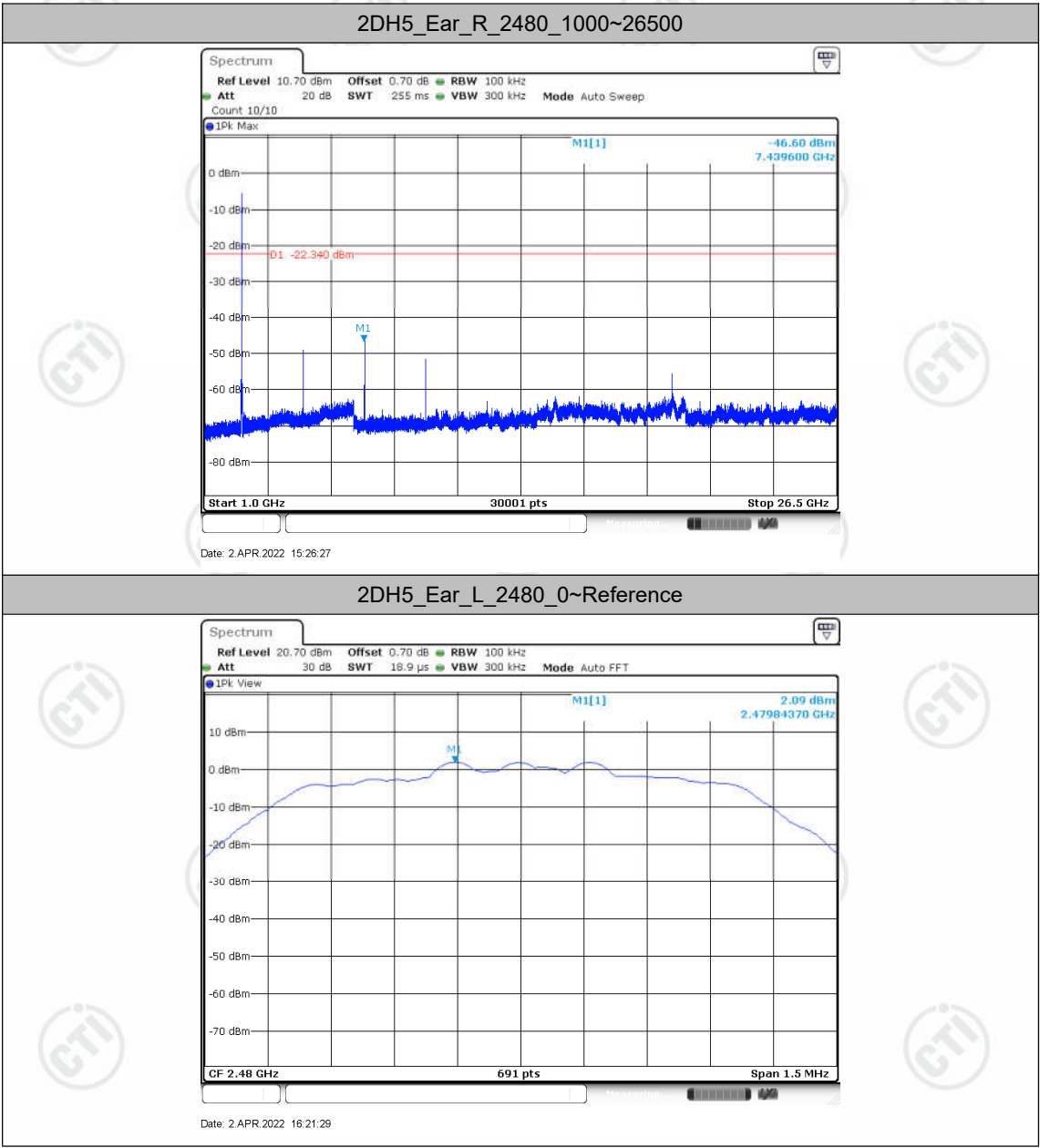


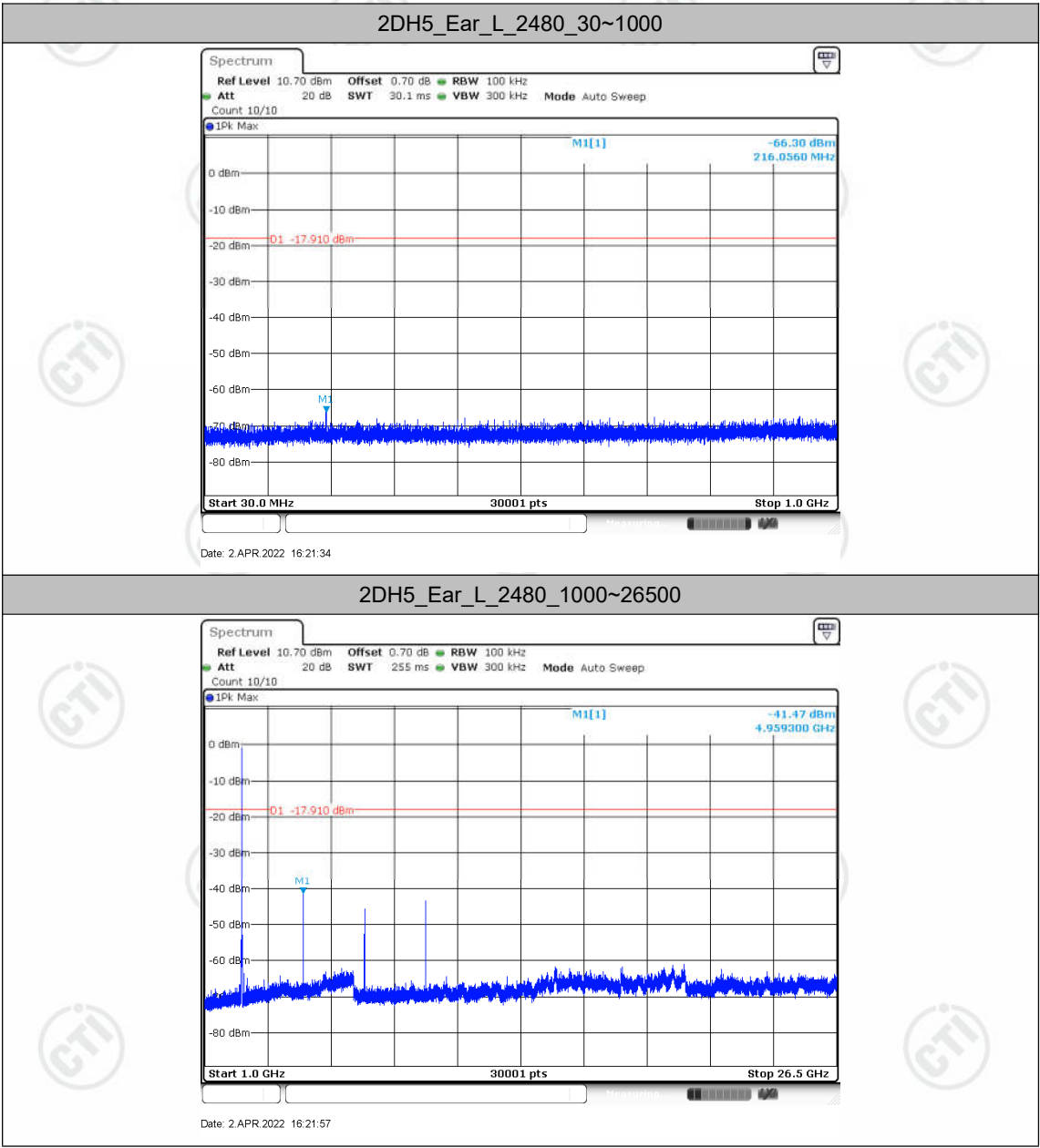










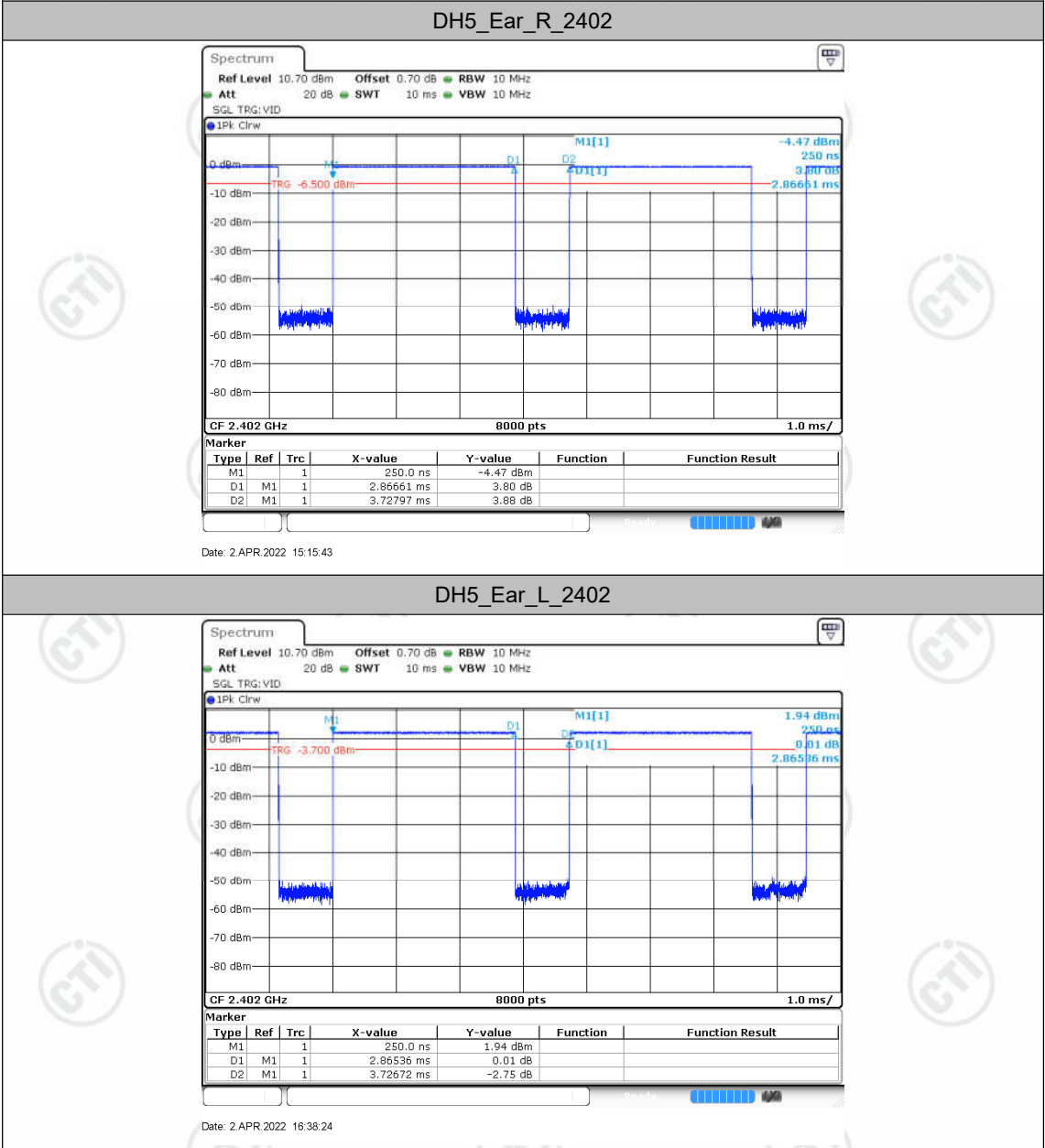


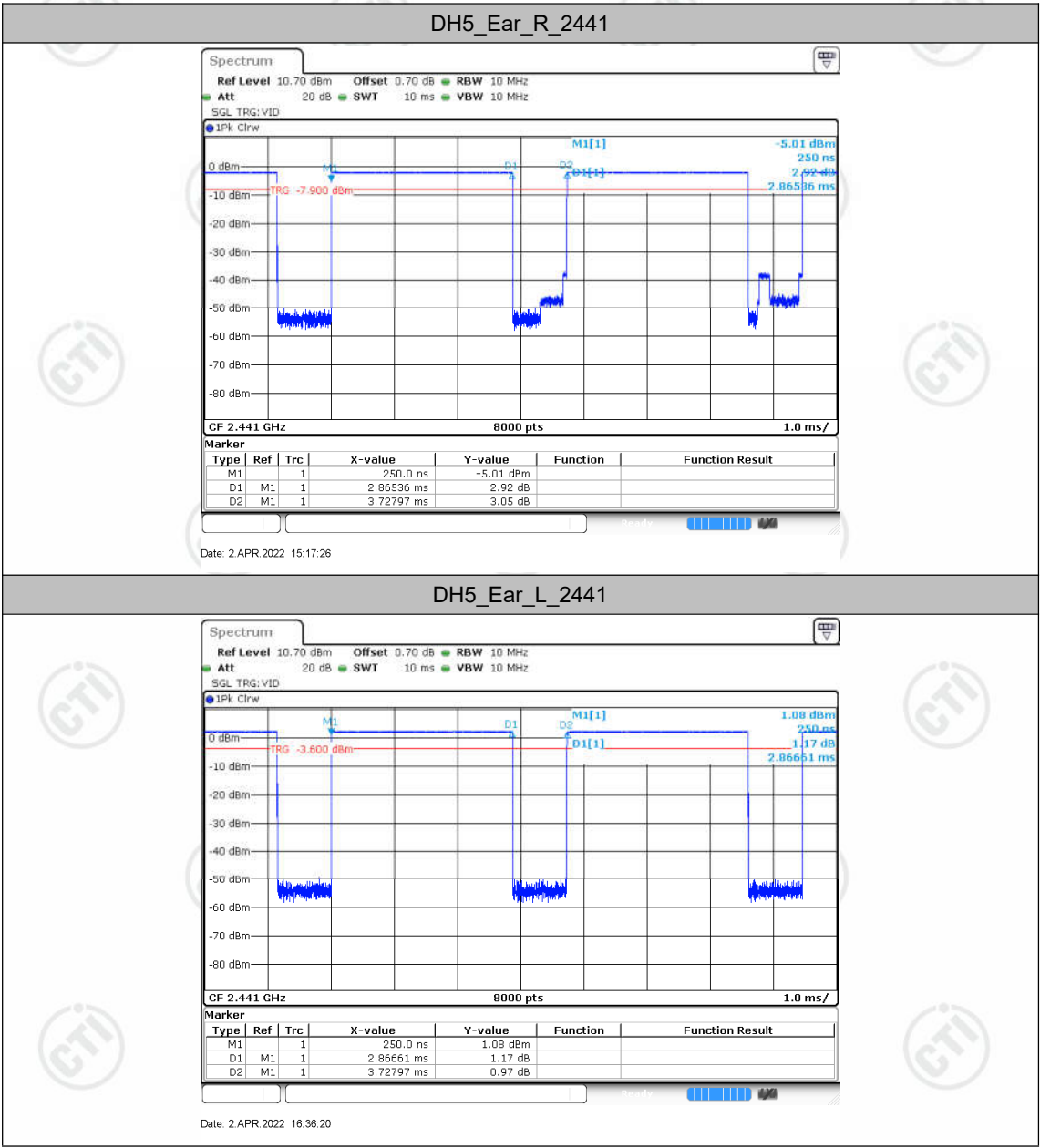
Appendix I: Duty Cycle

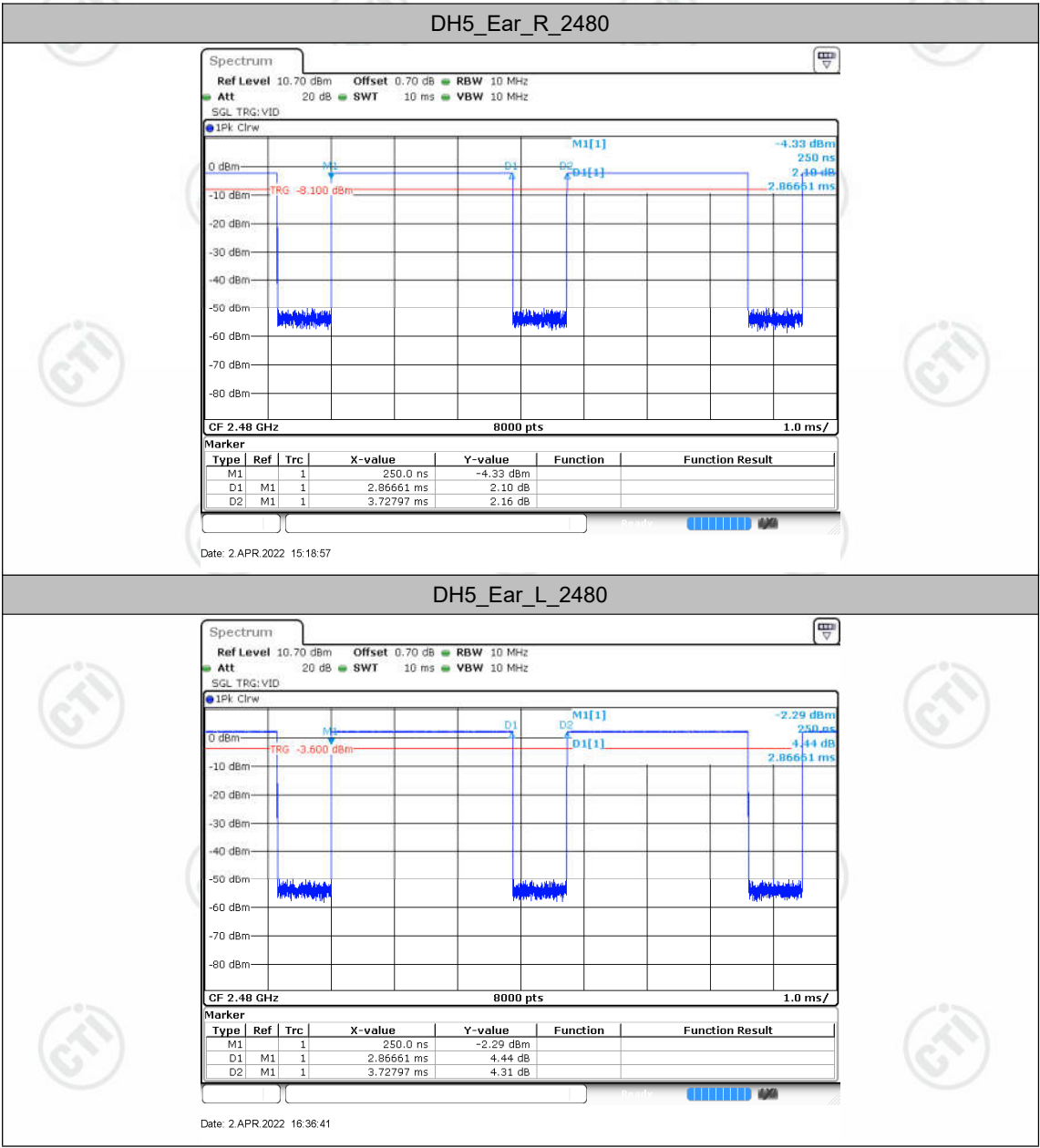
Test Result

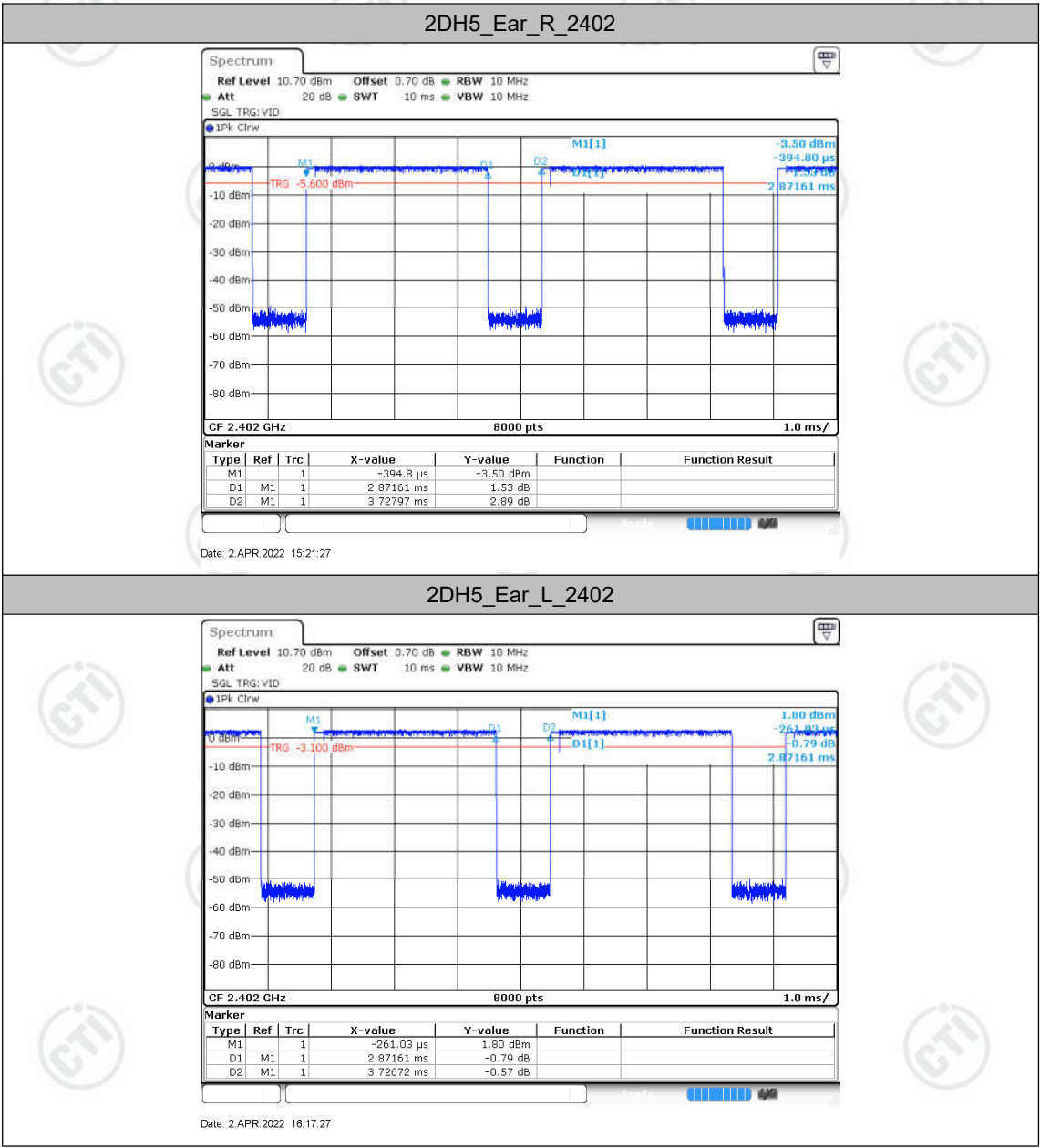
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ear_R	2402	2.87	3.73	76.89	---	PASS
	Ear_L	2402	2.87	3.73	76.89	---	PASS
	Ear_R	2441	2.87	3.73	76.86	---	PASS
	Ear_L	2441	2.87	3.73	76.89	---	PASS
	Ear_R	2480	2.87	3.73	76.89	---	PASS
	Ear_L	2480	2.87	3.73	76.89	---	PASS
2DH5	Ear_R	2402	2.87	3.73	77.03	---	PASS
	Ear_L	2402	2.87	3.73	77.05	---	PASS
	Ear_R	2441	2.87	3.73	77.02	---	PASS
	Ear_L	2441	2.87	3.73	77.09	---	PASS
	Ear_R	2480	2.87	3.73	77.05	---	PASS
	Ear_L	2480	2.87	3.73	77.05	---	PASS

Test Graphs













*** End of Report ***