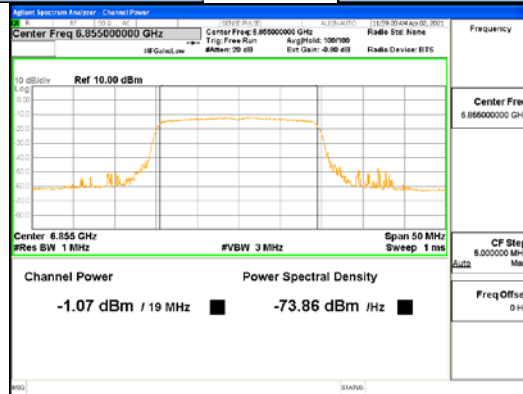
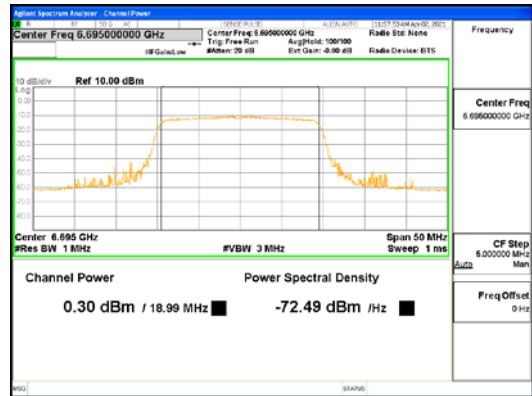
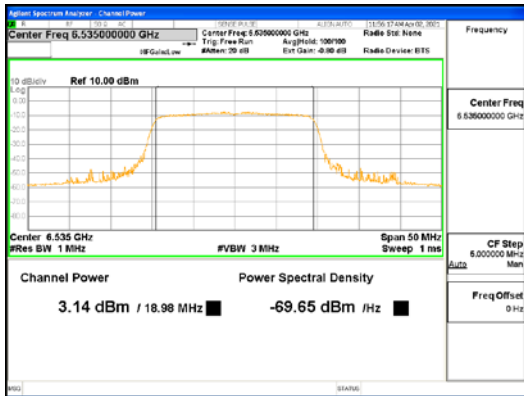


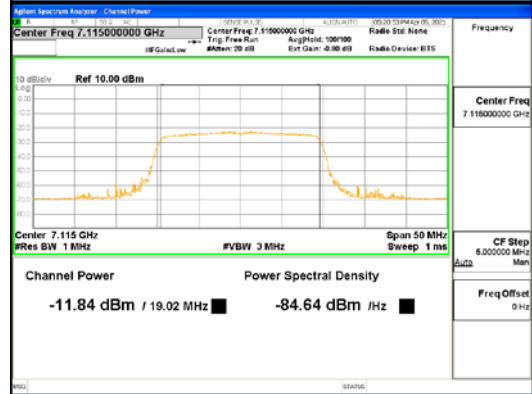
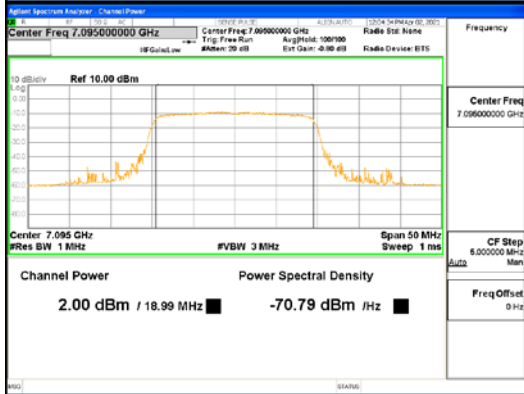
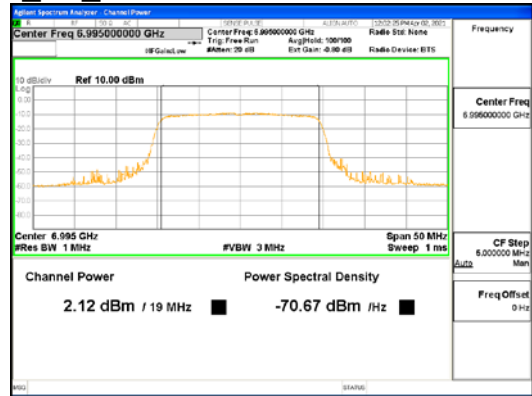
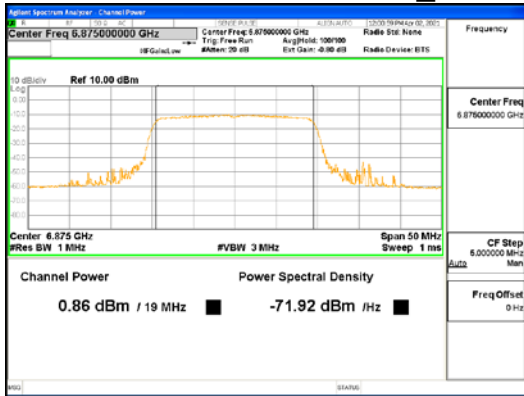


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (115) / (248) Pages



ANT2_802.11ax_HE20_SU_UNI I 7

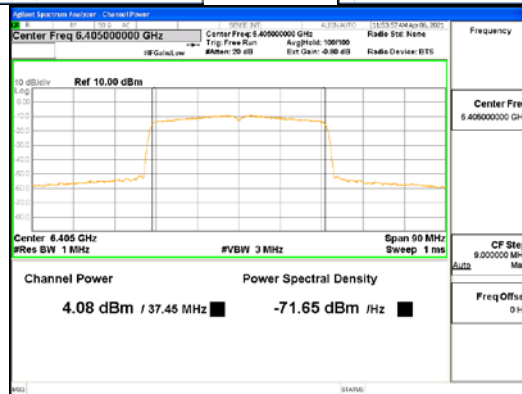
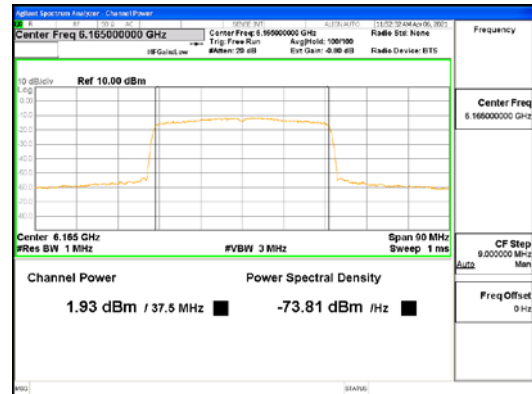
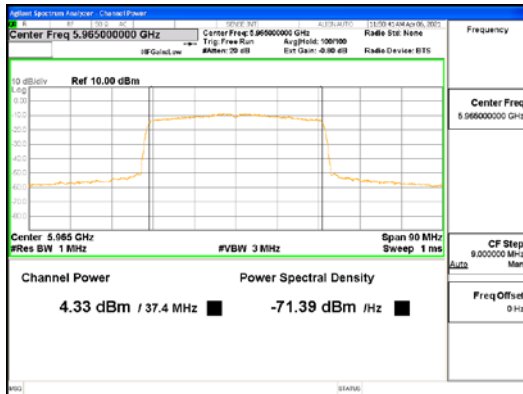


ANT2_802.11ax_HE20_SU_UNI I 8

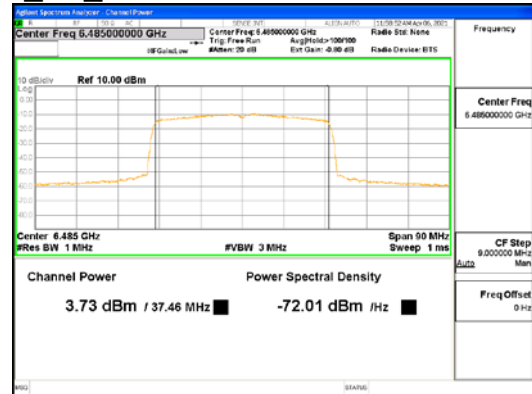
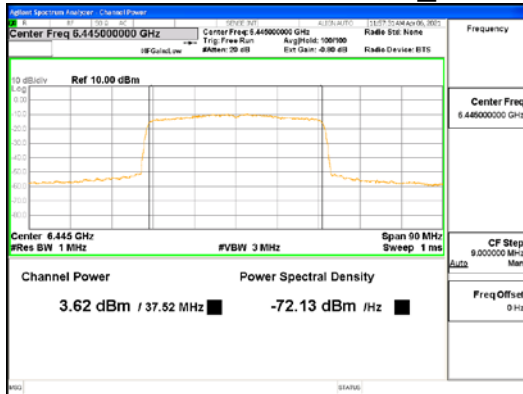


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (116) / (248) Pages



ANT1_802.11ax_HE40_SU_UNI I 5

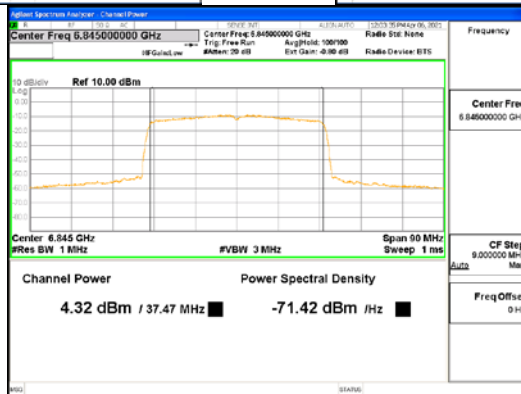
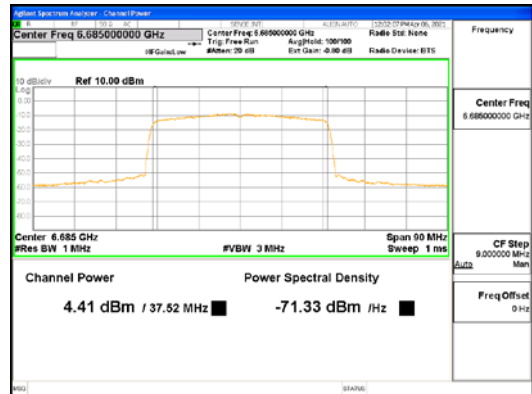
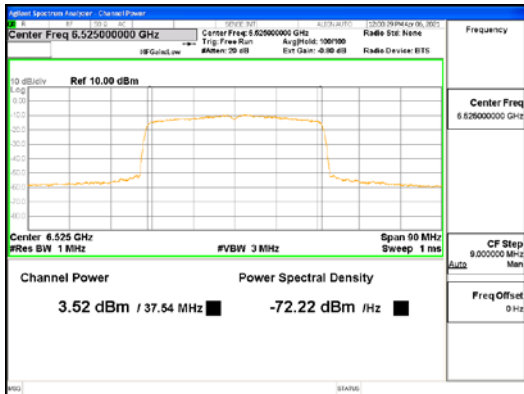


ANT1_802.11ax_HE40_SU_UNI I 6

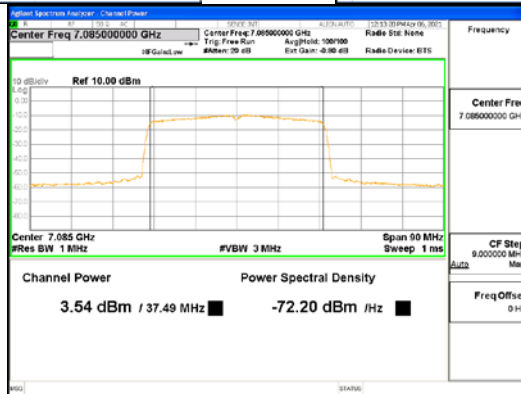
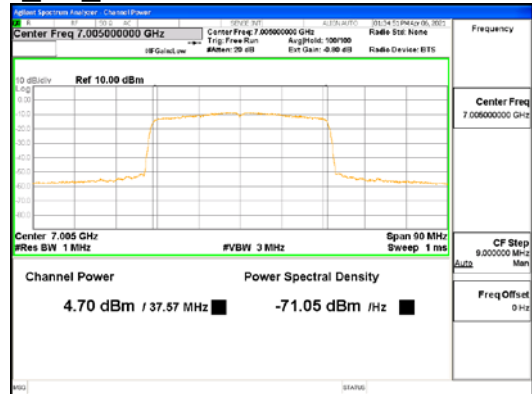
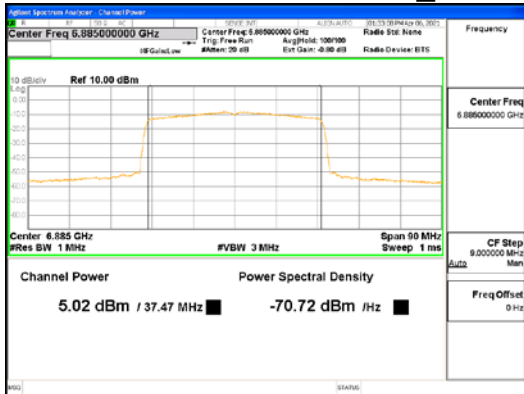


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (117) / (248) Pages



ANT1_802.11ax_HE40_SU_UNI I 7

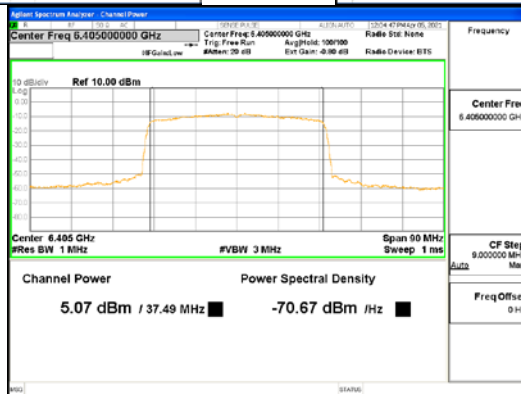
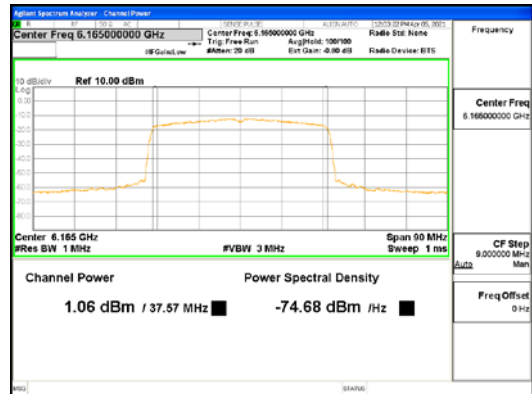
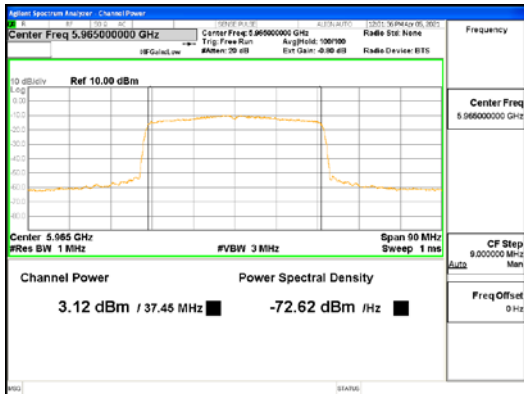


ANT1_802.11ax_HE40_SU_UNI I 8

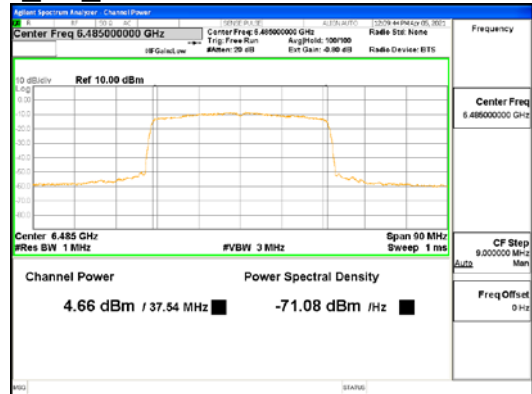
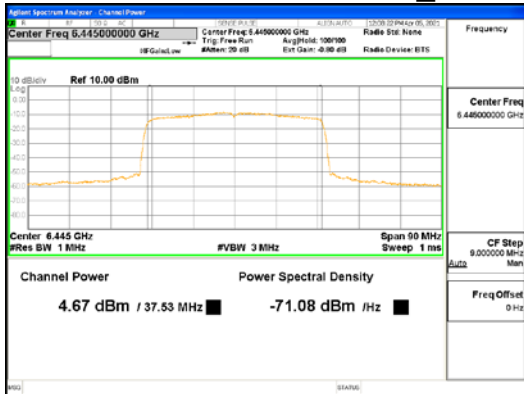


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (118) / (248) Pages



ANT2_802.11ax_HE40_SU_UNI I 5

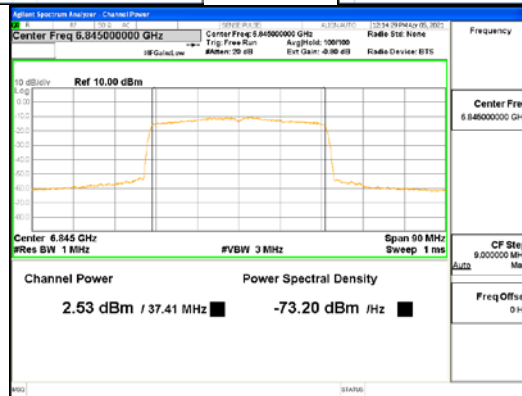
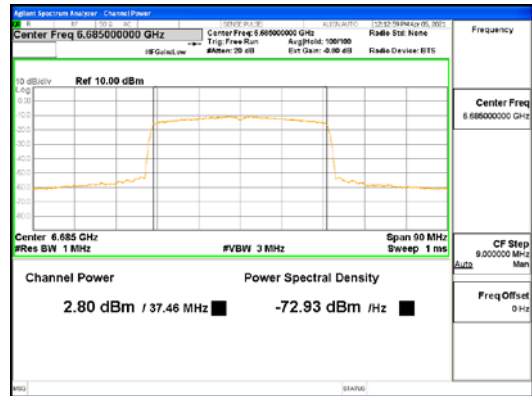
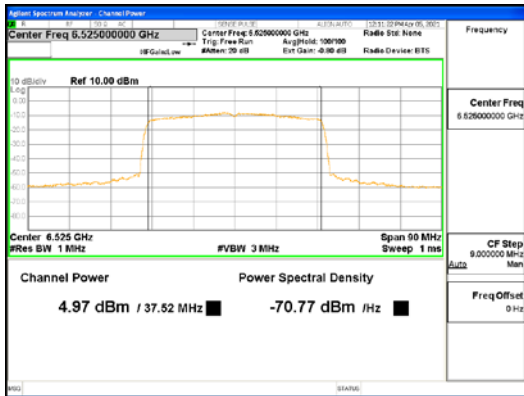


ANT2_802.11ax_HE40_SU_UNI I 6

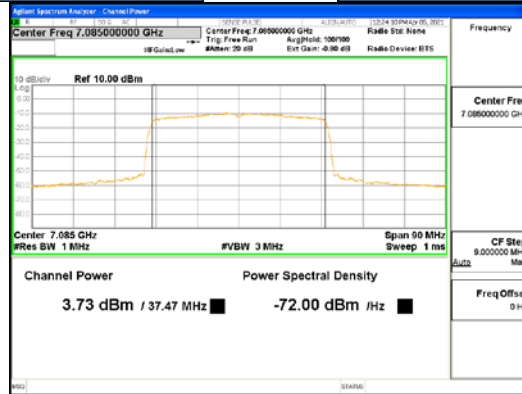
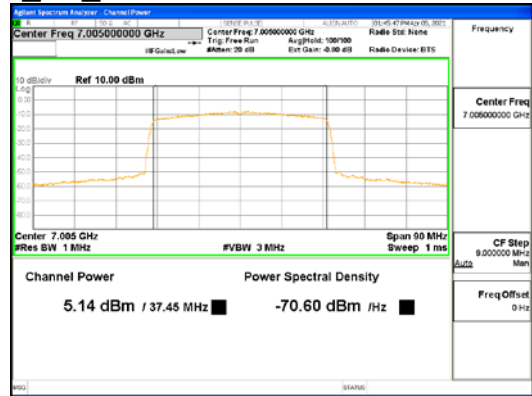
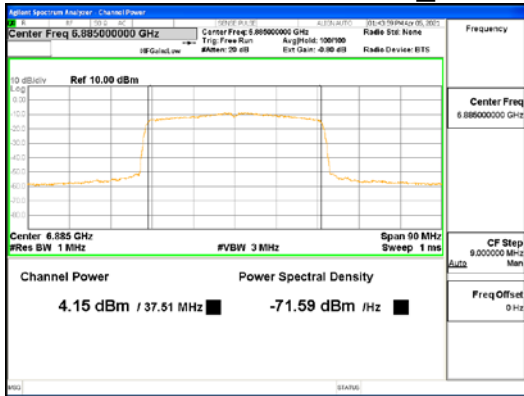


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (119) / (248) Pages



ANT2_802.11ax_HE40_SU_UNI I 7

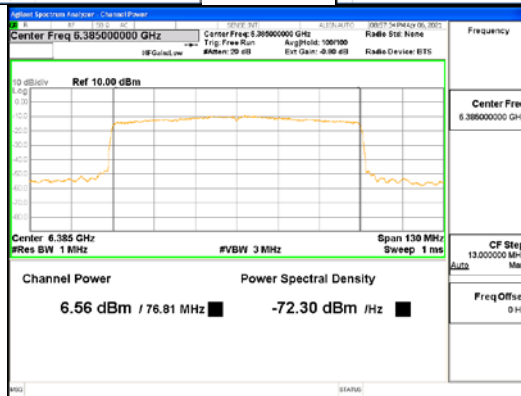
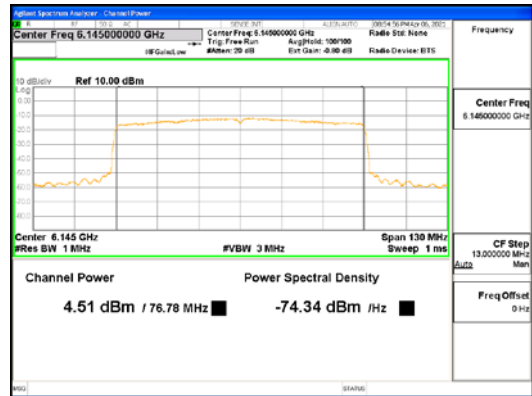
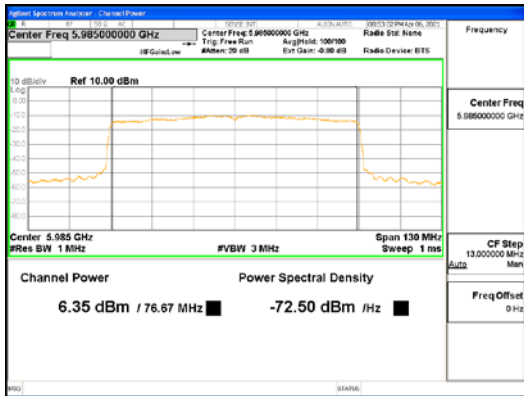


ANT2_802.11ax_HE40_SU_UNI I 8

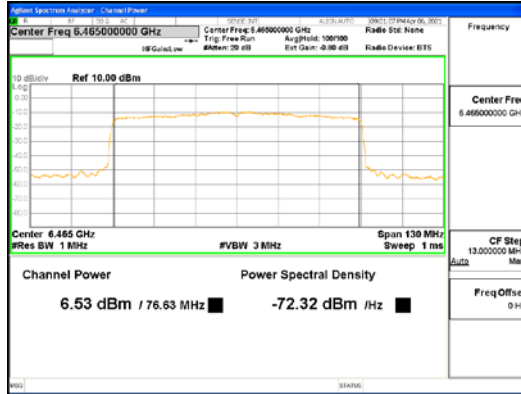


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (120) / (248) Pages



ANT1_802.11ax_HE80_SU_UNI I 5

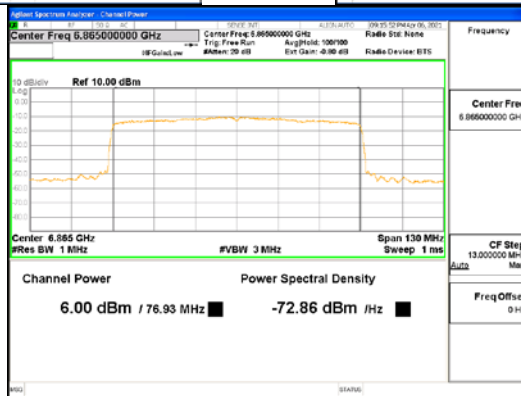
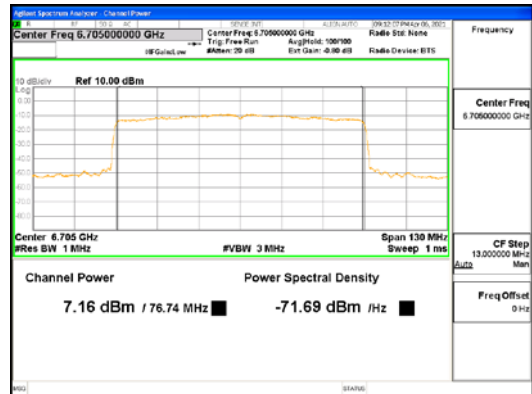
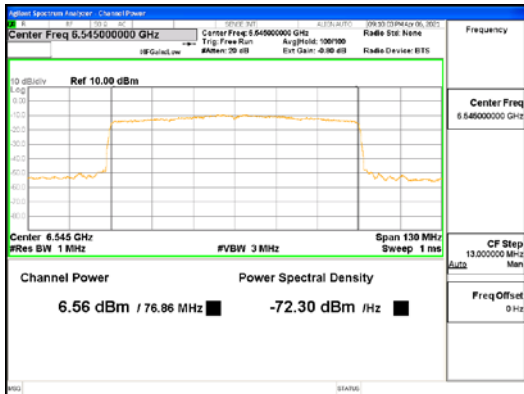


ANT1_802.11ax_HE80_SU_UNI I 6

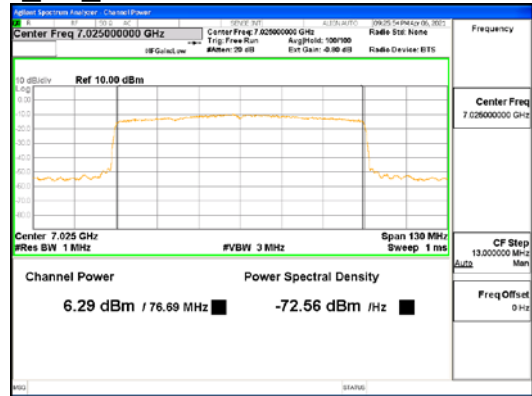
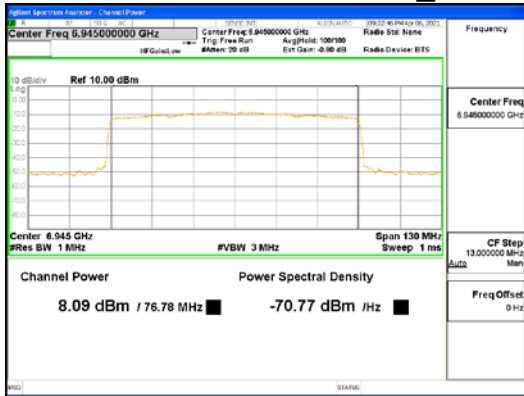


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (121) / (248) Pages



ANT1_802.11ax_HE80_SU_UNI I 7

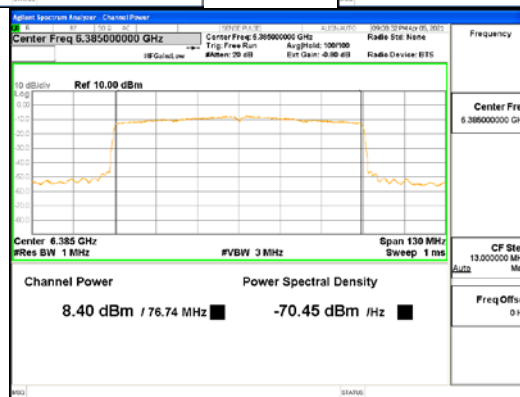
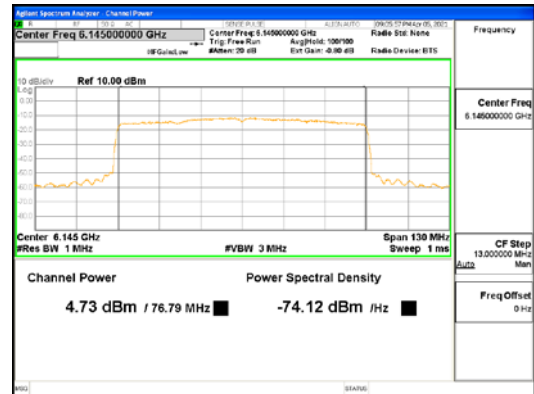
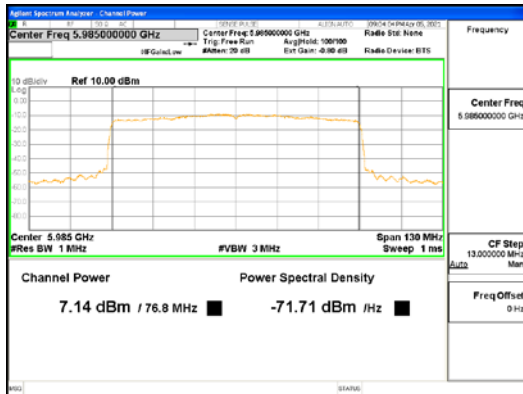


ANT1_802.11ax_HE80_SU_UNI I 8

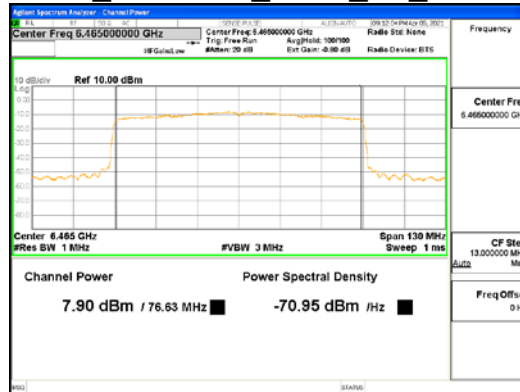


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (122) / (248) Pages



ANT2_802.11ax_HE80_SU_UNI I 5

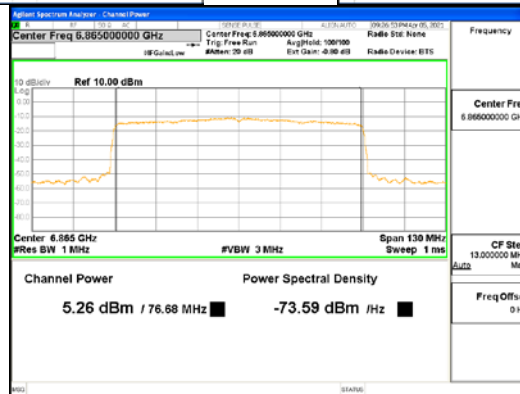
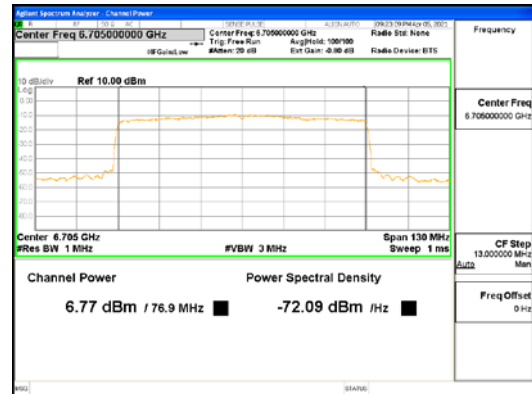
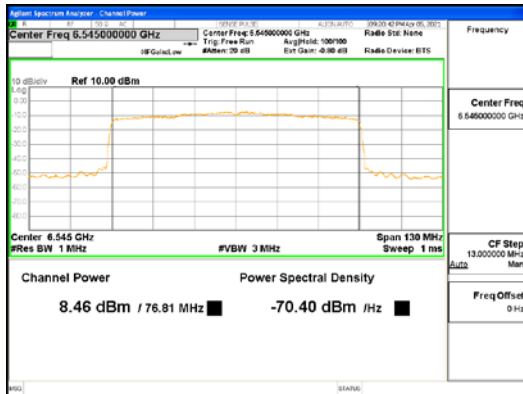


ANT2_802.11ax_HE80_SU_UNI I 6

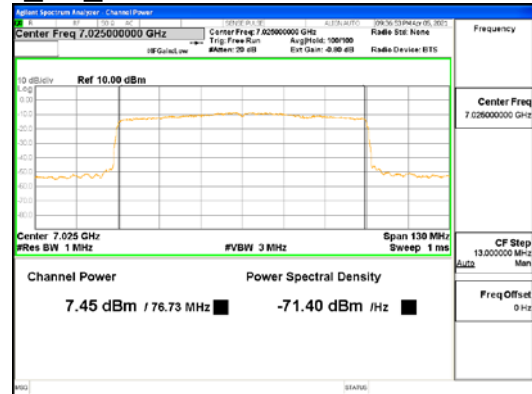
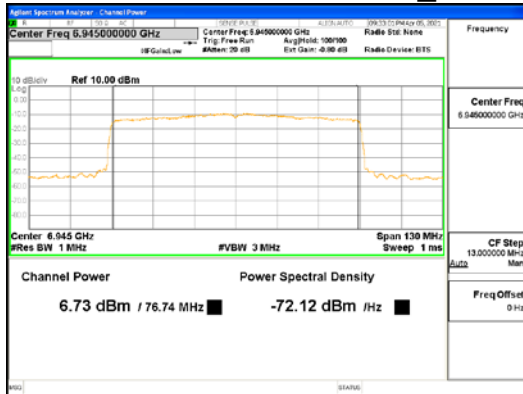


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (123) / (248) Pages



ANT2_802.11ax_HE80_SU_UNI I 7



ANT2_802.11ax_HE80_SU_UNI I 8



4.3 Power Spectral Density

Test Procedures

KDB 987594 – Section F
KDB 789033 – Section F (Method SA-2, Maximum Power Spectral Density)
KDB 662911 D01, D02 (Multiple Transmitter Output)

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz
- b) VBW = 3 MHz
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100
- f) Duty cycle factor = $10\log(1/x)$

Test mode	Duty Cycle Factor (dB)
802.11ax_HE20_SU	0.80
802.11ax_HE40_SU	0.81
802.11ax_HE80_SU	0.87
802.11ax HE20/40/80 26T	0.24



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (125) / (248) Pages

Limit

Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm)
SISO	ANT1, ANT2	2.26, -5.58	802.11ax	UNII 5	-1.00 ERIP
				UNII 6	
				UNII 7	
				UNII 8	
MIMO (2Tx)	ANT1 + ANT2	2.21	802.11ax	UNII 5	
				UNII 6	
				UNII 7	
				UNII 8	



Test Data
ANT1

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _SU	5 955	-9.16	0.80	2.26	-6.10	-1.00	5.10
	6 175	-11.11	0.80		-8.05	-1.00	7.05
	6 415	-9.39	0.80		-6.33	-1.00	5.33
	6 435	-9.45	0.80		-6.39	-1.00	5.39
	6 475	-9.23	0.80		-6.17	-1.00	5.17
	6 515	-9.55	0.80		-6.49	-1.00	5.49
	6 535	-9.22	0.80		-6.16	-1.00	5.16
	6 695	-9.03	0.80		-5.97	-1.00	4.97
	6 855	-10.20	0.80		-7.14	-1.00	6.14
	6 875	-8.20	0.80		-5.14	-1.00	4.14
	6 995	-8.37	0.80		-5.31	-1.00	4.31
	7 095	-10.07	0.80		-7.01	-1.00	6.01
	7 115	-25.21	0.80		-22.15	-1.00	21.15
802.11ax _HE40 _SU	5 965	-8.82	0.81	2.26	-5.75	-1.00	4.75
	6 165	-11.18	0.81		-8.11	-1.00	7.11
	6 405	-8.92	0.81		-5.85	-1.00	4.85
	6 445	-9.20	0.81		-6.13	-1.00	5.13
	6 485	-9.46	0.81		-6.39	-1.00	5.39
	6 525	-9.77	0.81		-6.70	-1.00	5.70
	6 685	-8.71	0.81		-5.64	-1.00	4.64
	6 845	-8.97	0.81		-5.90	-1.00	4.90
	6 885	-7.96	0.81		-4.89	-1.00	3.89
	7 005	-8.58	0.81		-5.51	-1.00	4.51
7 085	-9.67	0.81	-6.60	-1.00	5.60		
802.11ax _HE80 _SU	5 985	-10.08	0.87	2.26	-6.95	-1.00	5.95
	6 145	-11.18	0.87		-8.05	-1.00	7.05
	6 385	-9.12	0.87		-5.99	-1.00	4.99
	6 465	-9.74	0.87		-6.61	-1.00	5.61
	6 545	-9.45	0.87		-6.32	-1.00	5.32
	6 705	-8.96	0.87		-5.83	-1.00	4.83
	6 865	-10.25	0.87		-7.12	-1.00	6.12
	6 945	-7.94	0.87		-4.81	-1.00	3.81
7 025	-9.69	0.87	-6.56	-1.00	5.56		
Measurement uncertainty		1.5 dB					



Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 955	Low	-10.33	0.24	2.26	-7.83	-1.00	6.83
		Mid	-11.41	0.24		-8.91	-1.00	7.91
		High	-10.36	0.24		-7.86	-1.00	6.86
	6 175	Low	-12.24	0.24		-9.74	-1.00	8.74
		Mid	-13.08	0.24		-10.58	-1.00	9.58
		High	-12.10	0.24		-9.60	-1.00	8.60
	6 415	Low	-9.83	0.24		-7.33	-1.00	6.33
		Mid	-11.17	0.24		-8.67	-1.00	7.67
		High	-10.00	0.24		-7.50	-1.00	6.50
	6 435	Low	-9.97	0.24		-7.47	-1.00	6.47
		Mid	-10.83	0.24		-8.33	-1.00	7.33
		High	-10.14	0.24		-7.64	-1.00	6.64
	6 475	Low	-9.89	0.24		-7.39	-1.00	6.39
		Mid	-10.73	0.24		-8.23	-1.00	7.23
		High	-10.08	0.24		-7.58	-1.00	6.58
	6 515	Low	-9.90	0.24		-7.40	-1.00	6.40
		Mid	-11.15	0.24		-8.65	-1.00	7.65
		High	-9.85	0.24		-7.35	-1.00	6.35
	6 535	Low	-9.49	0.24		-6.99	-1.00	5.99
		Mid	-10.76	0.24		-8.26	-1.00	7.26
		High	-9.64	0.24		-7.14	-1.00	6.14
	6 695	Low	-10.05	0.24		-7.55	-1.00	6.55
		Mid	-10.94	0.24		-8.44	-1.00	7.44
		High	-10.15	0.24		-7.65	-1.00	6.65
	6 855	Low	-11.20	0.24		-8.70	-1.00	7.70
		Mid	-12.13	0.24		-9.63	-1.00	8.63
		High	-11.11	0.24		-8.61	-1.00	7.61
	6 875	Low	-10.97	0.24		-8.47	-1.00	7.47
		Mid	-11.78	0.24		-9.28	-1.00	8.28
		High	-11.27	0.24		-8.77	-1.00	7.77
6 995	Low	-10.71	0.24	-8.21	-1.00	7.21		
	Mid	-11.42	0.24	-8.92	-1.00	7.92		
	High	-10.08	0.24	-7.58	-1.00	6.58		
7 095	Low	-12.86	0.24	-10.36	-1.00	9.36		
	Mid	-13.34	0.24	-10.84	-1.00	9.84		



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (128) / (248) Pages

		High	-12.68	0.24		-10.18	-1.00	9.18
	7 115	Low	-16.50	0.24		-14.00	-1.00	13.00
		Mid	-17.28	0.24		-14.78	-1.00	13.78
		High	-16.76	0.24		-14.26	-1.00	13.26
Measurement uncertainty			1.5 dB					

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _26T	5 965	Low	-9.72	0.24	2.26	-7.22	-1.00	6.22
		Mid	-9.68	0.24		-7.18	-1.00	6.18
		High	-9.41	0.24		-6.91	-1.00	5.91
	6 165	Low	-9.24	0.24		-6.74	-1.00	5.74
		Mid	-9.16	0.24		-6.66	-1.00	5.66
		High	-9.46	0.24		-6.96	-1.00	5.96
	6 405	Low	-9.51	0.24		-7.01	-1.00	6.01
		Mid	-9.42	0.24		-6.92	-1.00	5.92
		High	-9.39	0.24		-6.89	-1.00	5.89
	6 445	Low	-9.06	0.24		-6.56	-1.00	5.56
		Mid	-9.05	0.24		-6.55	-1.00	5.55
		High	-9.60	0.24		-7.10	-1.00	6.10
	6 485	Low	-9.63	0.24		-7.13	-1.00	6.13
		Mid	-9.31	0.24		-6.81	-1.00	5.81
		High	-9.40	0.24		-6.90	-1.00	5.90
	6 525	Low	-9.43	0.24		-6.93	-1.00	5.93
		Mid	-9.36	0.24		-6.86	-1.00	5.86
		High	-9.30	0.24		-6.80	-1.00	5.80
	6 685	Low	-9.65	0.24		-7.15	-1.00	6.15
		Mid	-9.44	0.24		-6.94	-1.00	5.94
		High	-9.63	0.24		-7.13	-1.00	6.13
	6 845	Low	-9.31	0.24		-6.81	-1.00	5.81
		Mid	-9.26	0.24		-6.76	-1.00	5.76
		High	-9.19	0.24		-6.69	-1.00	5.69
	6 885	Low	-9.87	0.24		-7.37	-1.00	6.37
		Mid	-9.63	0.24		-7.13	-1.00	6.13
		High	-9.63	0.24		-7.13	-1.00	6.13
	7 005	Low	-9.26	0.24		-6.76	-1.00	5.76
		Mid	-8.77	0.24		-6.27	-1.00	5.27



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (129) / (248) Pages

		High	-9.05	0.24		-6.55	-1.00	5.55
	7 085	Low	-9.70	0.24		-7.20	-1.00	6.20
		Mid	-9.87	0.24		-7.37	-1.00	6.37
		High	-9.90	0.24		-7.40	-1.00	6.40
Measurement uncertainty			1.5 dB					

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)		
802.11ax _HE80 _26T	5 985	Low	-11.78	0.24	2.26	-9.28	-1.00	8.28		
		Mid	-13.87	0.24		-11.37	-1.00	10.37		
		High	-11.03	0.24		-8.53	-1.00	7.53		
	6 145	Low	-10.40	0.24		-7.90	-1.00	6.90		
		Mid	-10.35	0.24		-7.85	-1.00	6.85		
		High	-9.18	0.24		-6.68	-1.00	5.68		
	6 385	Low	-12.01	0.24		-9.51	-1.00	8.51		
		Mid	-9.64	0.24		-7.14	-1.00	6.14		
		High	-9.79	0.24		-7.29	-1.00	6.29		
	6 465	Low	-11.81	0.24		-9.31	-1.00	8.31		
		Mid	-11.20	0.24		-8.70	-1.00	7.70		
		High	-10.18	0.24		-7.68	-1.00	6.68		
	6 545	Low	-10.36	0.24		-7.86	-1.00	6.86		
		Mid	-11.20	0.24		-8.70	-1.00	7.70		
		High	-10.34	0.24		-7.84	-1.00	6.84		
	6 705	Low	-10.60	0.24		-8.10	-1.00	7.10		
		Mid	-11.88	0.24		-9.38	-1.00	8.38		
		High	-9.90	0.24		-7.40	-1.00	6.40		
	6 865	Low	-9.79	0.24		-7.29	-1.00	6.29		
		Mid	-10.68	0.24		-8.18	-1.00	7.18		
		High	-10.97	0.24		-8.47	-1.00	7.47		
	6 945	Low	-9.34	0.24		-6.84	-1.00	5.84		
		Mid	-8.83	0.24		-6.33	-1.00	5.33		
		High	-9.45	0.24		-6.95	-1.00	5.95		
	7 025	Low	-8.09	0.24		-5.59	-1.00	4.59		
		Mid	-8.39	0.24		-5.89	-1.00	4.89		
		High	-7.87	0.24		-5.37	-1.00	4.37		
	Measurement uncertainty		1.5 dB							



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (130) / (248) Pages

ANT2

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _SU	5 955	-10.27	0.80	-5.58	-15.05	-1.00	14.05
	6 175	-12.26	0.80		-17.04	-1.00	16.04
	6 415	-8.15	0.80		-12.93	-1.00	11.93
	6 435	-8.78	0.80		-13.56	-1.00	12.56
	6 475	-8.36	0.80		-13.14	-1.00	12.14
	6 515	-8.63	0.80		-13.41	-1.00	12.41
	6 535	-8.00	0.80		-12.78	-1.00	11.78
	6 695	-10.90	0.80		-15.68	-1.00	14.68
	6 855	-12.14	0.80		-16.92	-1.00	15.92
	6 875	-9.84	0.80		-14.62	-1.00	13.62
	6 995	-8.85	0.80		-13.63	-1.00	12.63
	7 095	-8.91	0.80		-13.69	-1.00	12.69
7 115	-23.00	0.80	-27.78	-1.00	26.78		
802.11ax _HE40 _SU	5 965	-9.78	0.81	-5.58	-14.55	-1.00	13.55
	6 165	-12.20	0.81		-16.97	-1.00	15.97
	6 405	-8.22	0.81		-12.99	-1.00	11.99
	6 445	-8.50	0.81		-13.27	-1.00	12.27
	6 485	-8.27	0.81		-13.04	-1.00	12.04
	6 525	-8.16	0.81		-12.93	-1.00	11.93
	6 685	-10.52	0.81		-15.29	-1.00	14.29
	6 845	-10.48	0.81		-15.25	-1.00	14.25
	6 885	-9.16	0.81		-13.93	-1.00	12.93
	7 005	-8.11	0.81		-12.88	-1.00	11.88
7 085	-9.27	0.81	-14.04	-1.00	13.04		
802.11ax _HE80 _SU	5 985	-9.09	0.87	-5.58	-13.80	-1.00	12.80
	6 145	-11.39	0.87		-16.10	-1.00	15.10
	6 385	-7.73	0.87		-12.44	-1.00	11.44
	6 465	-8.17	0.87		-12.88	-1.00	11.88
	6 545	-7.48	0.87		-12.19	-1.00	11.19
	6 705	-9.67	0.87		-14.38	-1.00	13.38
	6 865	-11.01	0.87		-15.72	-1.00	14.72
	6 945	-9.53	0.87		-14.24	-1.00	13.24
7 025	-8.50	0.87	-13.21	-1.00	12.21		
Measurement uncertainty		1.5 dB					



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (131) / (248) Pages

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 955	Low	-10.60	0.24	-5.58	-15.94	-1.00	14.94
		Mid	-11.09	0.24		-16.43	-1.00	15.43
		High	-10.35	0.24		-15.69	-1.00	14.69
	6 175	Low	-12.53	0.24		-17.87	-1.00	16.87
		Mid	-13.55	0.24		-18.89	-1.00	17.89
		High	-12.37	0.24		-17.71	-1.00	16.71
	6 415	Low	-8.48	0.24		-13.82	-1.00	12.82
		Mid	-9.45	0.24		-14.79	-1.00	13.79
		High	-8.71	0.24		-14.05	-1.00	13.05
	6 435	Low	-9.04	0.24		-14.38	-1.00	13.38
		Mid	-9.77	0.24		-15.11	-1.00	14.11
		High	-8.88	0.24		-14.22	-1.00	13.22
	6 475	Low	-8.77	0.24		-14.11	-1.00	13.11
		Mid	-9.54	0.24		-14.88	-1.00	13.88
		High	-8.81	0.24		-14.15	-1.00	13.15
	6 515	Low	-8.56	0.24		-13.90	-1.00	12.90
		Mid	-9.63	0.24		-14.97	-1.00	13.97
		High	-8.49	0.24		-13.83	-1.00	12.83
	6 535	Low	-7.86	0.24		-13.20	-1.00	12.20
		Mid	-8.74	0.24		-14.08	-1.00	13.08
		High	-7.84	0.24		-13.18	-1.00	12.18
	6 695	Low	-10.54	0.24		-15.88	-1.00	14.88
		Mid	-11.33	0.24		-16.67	-1.00	15.67
		High	-11.26	0.24		-16.60	-1.00	15.60
	6 855	Low	-12.18	0.24		-17.52	-1.00	16.52
		Mid	-13.03	0.24		-18.37	-1.00	17.37
		High	-12.08	0.24		-17.42	-1.00	16.42
	6 875	Low	-12.44	0.24		-17.78	-1.00	16.78
		Mid	-12.97	0.24		-18.31	-1.00	17.31
		High	-11.89	0.24		-17.23	-1.00	16.23
6 995	Low	-10.05	0.24	-15.39	-1.00	14.39		
	Mid	-10.71	0.24	-16.05	-1.00	15.05		
	High	-9.66	0.24	-15.00	-1.00	14.00		
7 095	Low	-9.57	0.24	-14.91	-1.00	13.91		
	Mid	-10.59	0.24	-15.93	-1.00	14.93		



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (132) / (248) Pages

		High	-9.59	0.24		-14.93	-1.00	13.93
	7 115	Low	-13.64	0.24		-18.98	-1.00	17.98
		Mid	-14.30	0.24		-19.64	-1.00	18.64
		High	-13.26	0.24		-18.60	-1.00	17.60
Measurement uncertainty			1.5 dB					

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _26T	5 965	Low	-8.66	0.24	-5.58	-14.00	-1.00	13.00
		Mid	-8.20	0.24		-13.54	-1.00	12.54
		High	-8.77	0.24		-14.11	-1.00	13.11
	6 165	Low	-8.89	0.24		-14.23	-1.00	13.23
		Mid	-8.64	0.24		-13.98	-1.00	12.98
		High	-8.83	0.24		-14.17	-1.00	13.17
	6 405	Low	-9.28	0.24		-14.62	-1.00	13.62
		Mid	-9.17	0.24		-14.51	-1.00	13.51
		High	-9.44	0.24		-14.78	-1.00	13.78
	6 445	Low	-9.81	0.24		-15.15	-1.00	14.15
		Mid	-9.12	0.24		-14.46	-1.00	13.46
		High	-9.19	0.24		-14.53	-1.00	13.53
	6 485	Low	-9.40	0.24		-14.74	-1.00	13.74
		Mid	-9.54	0.24		-14.88	-1.00	13.88
		High	-9.83	0.24		-15.17	-1.00	14.17
	6 525	Low	-9.14	0.24		-14.48	-1.00	13.48
		Mid	-9.36	0.24		-14.70	-1.00	13.70
		High	-9.00	0.24		-14.34	-1.00	13.34
	6 685	Low	-9.20	0.24		-14.54	-1.00	13.54
		Mid	-8.86	0.24		-14.20	-1.00	13.20
		High	-9.83	0.24		-15.17	-1.00	14.17
	6 845	Low	-9.87	0.24		-15.21	-1.00	14.21
		Mid	-9.40	0.24		-14.74	-1.00	13.74
		High	-10.01	0.24		-15.35	-1.00	14.35
	6 885	Low	-10.01	0.24		-15.35	-1.00	14.35
		Mid	-9.37	0.24		-14.71	-1.00	13.71
		High	-9.18	0.24		-14.52	-1.00	13.52
	7 005	Low	-9.44	0.24		-14.78	-1.00	13.78
		Mid	-8.78	0.24		-14.12	-1.00	13.12
		High	-8.82	0.24		-14.16	-1.00	13.16



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (133) / (248) Pages

	7 085	Low	-8.47	0.24		-13.81	-1.00	12.81
		Mid	-8.44	0.24		-13.78	-1.00	12.78
		High	-8.43	0.24		-13.77	-1.00	12.77
Measurement uncertainty		1.5 dB						

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE80 _26T	5 985	Low	-9.17	0.24	-5.58	-14.51	-1.00	13.51
		Mid	-10.16	0.24		-15.50	-1.00	14.50
		High	-10.03	0.24		-15.37	-1.00	14.37
	6 145	Low	-10.07	0.24		-15.41	-1.00	14.41
		Mid	-10.73	0.24		-16.07	-1.00	15.07
		High	-9.72	0.24		-15.06	-1.00	14.06
	6 385	Low	-10.44	0.24		-15.78	-1.00	14.78
		Mid	-11.27	0.24		-16.61	-1.00	15.61
		High	-10.73	0.24		-16.07	-1.00	15.07
	6 465	Low	-10.71	0.24		-16.05	-1.00	15.05
		Mid	-11.48	0.24		-16.82	-1.00	15.82
		High	-10.91	0.24		-16.25	-1.00	15.25
	6 545	Low	-9.88	0.24		-15.22	-1.00	14.22
		Mid	-10.22	0.24		-15.56	-1.00	14.56
		High	-9.72	0.24		-15.06	-1.00	14.06
	6 705	Low	-10.36	0.24		-15.70	-1.00	14.70
		Mid	-11.77	0.24		-17.11	-1.00	16.11
		High	-10.17	0.24		-15.51	-1.00	14.51
	6 865	Low	-10.20	0.24		-15.54	-1.00	14.54
		Mid	-11.99	0.24		-17.33	-1.00	16.33
		High	-10.27	0.24		-15.61	-1.00	14.61
	6 945	Low	-9.14	0.24		-14.48	-1.00	13.48
		Mid	-10.61	0.24		-15.95	-1.00	14.95
		High	-9.18	0.24		-14.52	-1.00	13.52
	7 025	Low	-7.80	0.24		-13.14	-1.00	12.14
		Mid	-8.18	0.24		-13.52	-1.00	12.52
		High	-7.12	0.24		-12.46	-1.00	11.46
Measurement uncertainty		1.5 dB						



ANT1 + ANT2

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _SU	5 955	-6.67	0.80	2.21	-3.66	-1.00	2.66
	6 175	-8.64	0.80		-5.63	-1.00	4.63
	6 415	-5.72	0.80		-2.71	-1.00	1.71
	6 435	-6.09	0.80		-3.08	-1.00	2.08
	6 475	-5.76	0.80		-2.75	-1.00	1.75
	6 515	-6.06	0.80		-3.05	-1.00	2.05
	6 535	-5.56	0.80		-2.55	-1.00	1.55
	6 695	-6.85	0.80		-3.84	-1.00	2.84
	6 855	-8.05	0.80		-5.04	-1.00	4.04
	6 875	-5.93	0.80		-2.92	-1.00	1.92
	6 995	-5.59	0.80		-2.58	-1.00	1.58
	7 095	-6.44	0.80		-3.43	-1.00	2.43
7 115	-20.96	0.80	-17.95	-1.00	16.95		
802.11ax _HE40 _SU	5 965	-6.26	0.81	2.21	-3.24	-1.00	2.24
	6 165	-8.65	0.81		-5.63	-1.00	4.63
	6 405	-5.55	0.81		-2.53	-1.00	1.53
	6 445	-5.83	0.81		-2.81	-1.00	1.81
	6 485	-5.81	0.81		-2.79	-1.00	1.79
	6 525	-5.88	0.81		-2.86	-1.00	1.86
	6 685	-6.51	0.81		-3.49	-1.00	2.49
	6 845	-6.65	0.81		-3.63	-1.00	2.63
	6 885	-5.51	0.81		-2.49	-1.00	1.49
	7 005	-5.33	0.81		-2.31	-1.00	1.31
7 085	-6.46	0.81	-3.44	-1.00	2.44		
802.11ax _HE80 _SU	5 985	-6.55	0.87	2.21	-3.47	-1.00	2.47
	6 145	-8.27	0.87		-5.19	-1.00	4.19
	6 385	-5.36	0.87		-2.28	-1.00	1.28
	6 465	-5.87	0.87		-2.79	-1.00	1.79
	6 545	-5.34	0.87		-2.26	-1.00	1.26
	6 705	-6.29	0.87		-3.21	-1.00	2.21
	6 865	-7.60	0.87		-4.52	-1.00	3.52
	6 945	-5.65	0.87		-2.57	-1.00	1.57
7 025	-6.04	0.87	-2.96	-1.00	1.96		
Measurement uncertainty		1.5 dB					



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (135) / (248) Pages

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 955	Low	-7.45	0.24	2.21	-5.00	-1.00	4.00
		Mid	-8.24	0.24		-5.79	-1.00	4.79
		High	-7.34	0.24		-4.89	-1.00	3.89
	6 175	Low	-9.37	0.24		-6.92	-1.00	5.92
		Mid	-10.30	0.24		-7.85	-1.00	6.85
		High	-9.22	0.24		-6.77	-1.00	5.77
	6 415	Low	-6.09	0.24		-3.64	-1.00	2.64
		Mid	-7.22	0.24		-4.77	-1.00	3.77
		High	-6.30	0.24		-3.85	-1.00	2.85
	6 435	Low	-6.47	0.24		-4.02	-1.00	3.02
		Mid	-7.26	0.24		-4.81	-1.00	3.81
		High	-6.45	0.24		-4.00	-1.00	3.00
	6 475	Low	-6.28	0.24		-3.83	-1.00	2.83
		Mid	-7.08	0.24		-4.63	-1.00	3.63
		High	-6.39	0.24		-3.94	-1.00	2.94
	6 515	Low	-6.17	0.24		-3.72	-1.00	2.72
		Mid	-7.31	0.24		-4.86	-1.00	3.86
		High	-6.11	0.24		-3.66	-1.00	2.66
	6 535	Low	-5.59	0.24		-3.14	-1.00	2.14
		Mid	-6.62	0.24		-4.17	-1.00	3.17
		High	-5.64	0.24		-3.19	-1.00	2.19
	6 695	Low	-7.28	0.24		-4.83	-1.00	3.83
		Mid	-8.12	0.24		-5.67	-1.00	4.67
		High	-7.66	0.24		-5.21	-1.00	4.21
	6 855	Low	-8.65	0.24		-6.20	-1.00	5.20
		Mid	-9.55	0.24		-7.10	-1.00	6.10
		High	-8.56	0.24		-6.11	-1.00	5.11
	6 875	Low	-8.63	0.24		-6.18	-1.00	5.18
		Mid	-9.32	0.24		-6.87	-1.00	5.87
		High	-8.56	0.24		-6.11	-1.00	5.11
6 995	Low	-7.36	0.24	-4.91	-1.00	3.91		
	Mid	-8.04	0.24	-5.59	-1.00	4.59		
	High	-6.85	0.24	-4.40	-1.00	3.40		
7 095	Low	-7.90	0.24	-5.45	-1.00	4.45		
	Mid	-8.74	0.24	-6.29	-1.00	5.29		



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (136) / (248) Pages

		High	-7.86	0.24		-5.41	-1.00	4.41
	7 115	Low	-11.83	0.24		-9.38	-1.00	8.38
		Mid	-12.53	0.24		-10.08	-1.00	9.08
		High	-11.66	0.24		-9.21	-1.00	8.21
Measurement uncertainty			1.5 dB					

Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _26T	5 965	Low	-6.15	0.24	2.24	-3.67	-1.00	2.67
		Mid	-5.87	0.24		-3.39	-1.00	2.39
		High	-6.07	0.24		-3.59	-1.00	2.59
	6 165	Low	-6.05	0.24		-3.57	-1.00	2.57
		Mid	-5.88	0.24		-3.40	-1.00	2.40
		High	-6.12	0.24		-3.64	-1.00	2.64
	6 405	Low	-6.38	0.24		-3.90	-1.00	2.90
		Mid	-6.28	0.24		-3.80	-1.00	2.80
		High	-6.40	0.24		-3.92	-1.00	2.92
	6 445	Low	-6.41	0.24		-3.93	-1.00	2.93
		Mid	-6.07	0.24		-3.59	-1.00	2.59
		High	-6.38	0.24		-3.90	-1.00	2.90
	6 485	Low	-6.50	0.24		-4.02	-1.00	3.02
		Mid	-6.41	0.24		-3.93	-1.00	2.93
		High	-6.60	0.24		-4.12	-1.00	3.12
	6 525	Low	-6.27	0.24		-3.79	-1.00	2.79
		Mid	-6.35	0.24		-3.87	-1.00	2.87
		High	-6.14	0.24		-3.66	-1.00	2.66
	6 685	Low	-6.41	0.24		-3.93	-1.00	2.93
		Mid	-6.13	0.24		-3.65	-1.00	2.65
		High	-6.72	0.24		-4.24	-1.00	3.24
	6 845	Low	-6.57	0.24		-4.09	-1.00	3.09
		Mid	-6.32	0.24		-3.84	-1.00	2.84
		High	-6.57	0.24		-4.09	-1.00	3.09
	6 885	Low	-6.93	0.24		-4.45	-1.00	3.45
		Mid	-6.49	0.24		-4.01	-1.00	3.01
		High	-6.39	0.24		-3.91	-1.00	2.91
	7 005	Low	-6.34	0.24		-3.86	-1.00	2.86
		Mid	-5.76	0.24		-3.28	-1.00	2.28



CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

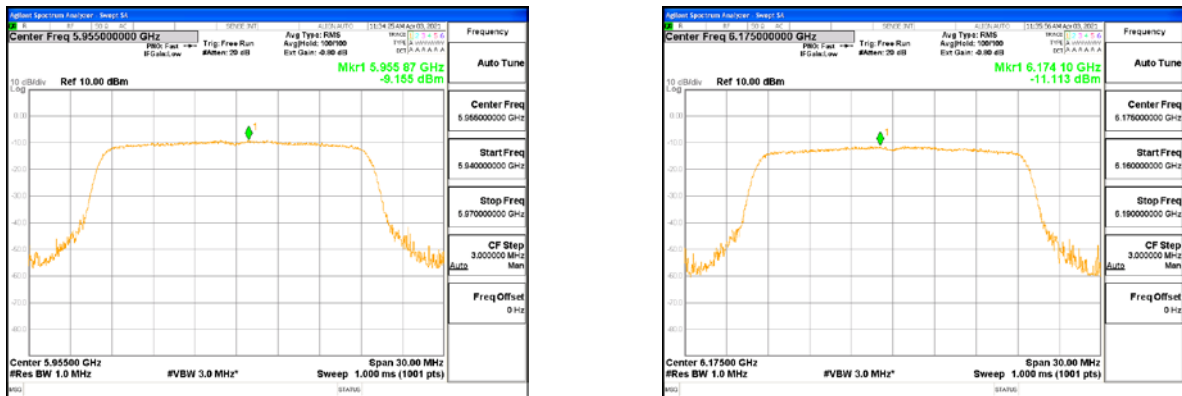
Report No.:
 CTK-2021-03423
 Page (137) / (248) Pages

		High	-5.92	0.24		-3.44	-1.00	2.44
	7 085	Low	-6.03	0.24		-3.55	-1.00	2.55
		Mid	-6.09	0.24		-3.61	-1.00	2.61
		High	-6.09	0.24		-3.61	-1.00	2.61
Measurement uncertainty			1.5 dB					

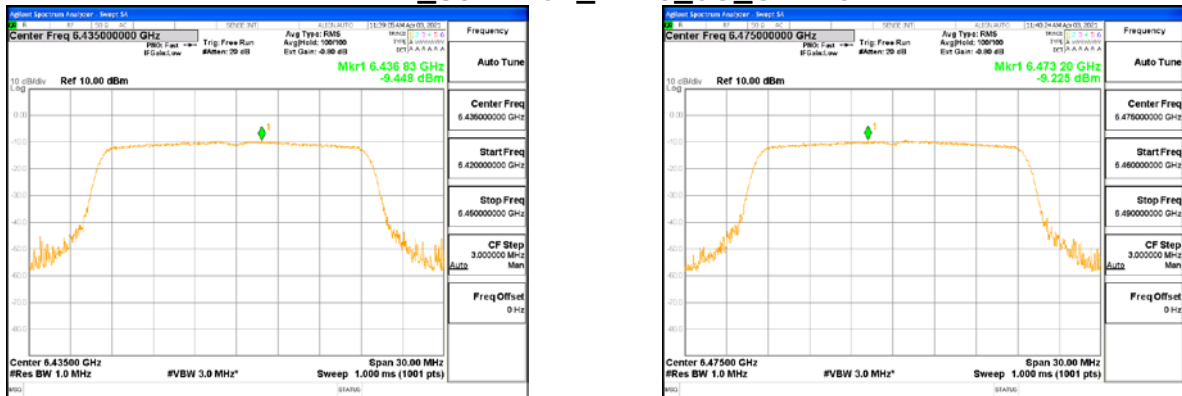
Test Mode	Frequency (MHz)	RU Index	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE80 _26T	5 985	Low	-7.27	0.24	2.21	-4.82	-1.00	3.82
		Mid	-8.62	0.24		-6.17	-1.00	5.17
		High	-7.49	0.24		-5.04	-1.00	4.04
	6 145	Low	-7.22	0.24		-4.77	-1.00	3.77
		Mid	-7.53	0.24		-5.08	-1.00	4.08
		High	-6.43	0.24		-3.98	-1.00	2.98
	6 385	Low	-8.14	0.24		-5.69	-1.00	4.69
		Mid	-7.37	0.24		-4.92	-1.00	3.92
		High	-7.22	0.24		-4.77	-1.00	3.77
	6 465	Low	-8.21	0.24		-5.76	-1.00	4.76
		Mid	-8.33	0.24		-5.88	-1.00	4.88
		High	-7.52	0.24		-5.07	-1.00	4.07
	6 545	Low	-7.10	0.24		-4.65	-1.00	3.65
		Mid	-7.67	0.24		-5.22	-1.00	4.22
		High	-7.01	0.24		-4.56	-1.00	3.56
	6 705	Low	-7.47	0.24		-5.02	-1.00	4.02
		Mid	-8.81	0.24		-6.36	-1.00	5.36
		High	-7.02	0.24		-4.57	-1.00	3.57
	6 865	Low	-6.98	0.24		-4.53	-1.00	3.53
		Mid	-8.28	0.24		-5.83	-1.00	4.83
		High	-7.60	0.24		-5.15	-1.00	4.15
	6 945	Low	-6.23	0.24		-3.78	-1.00	2.78
		Mid	-6.62	0.24		-4.17	-1.00	3.17
		High	-6.30	0.24		-3.85	-1.00	2.85
	7 025	Low	-4.93	0.24		-2.48	-1.00	1.48
		Mid	-5.27	0.24		-2.82	-1.00	1.82
		High	-4.47	0.24		-2.02	-1.00	1.02
Measurement uncertainty		1.5 dB						



See next pages for actual measured spectrum plots.



ANT1_802.11ax_HE20_SU_UNI I 5

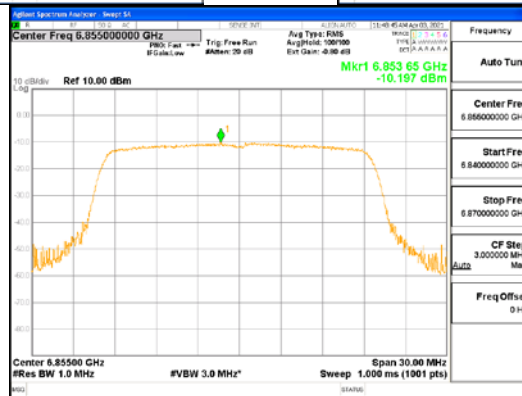
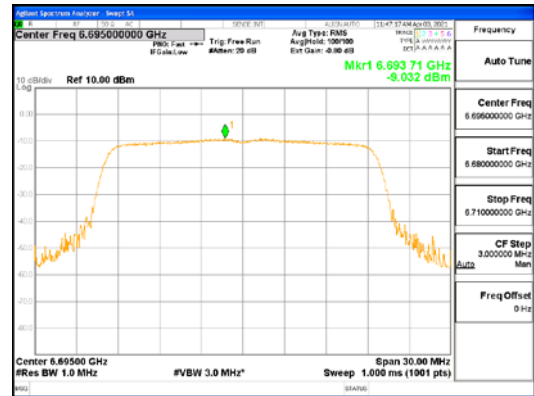
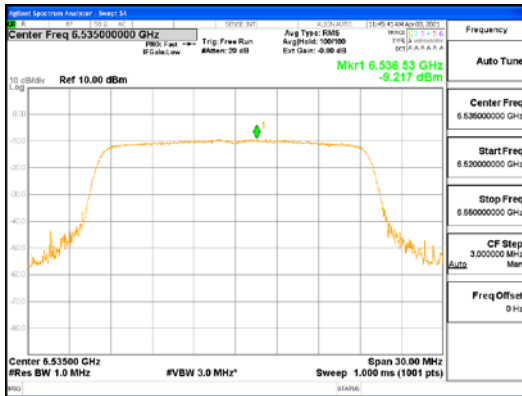


ANT1_802.11ax_HE20_SU_UNI I 6

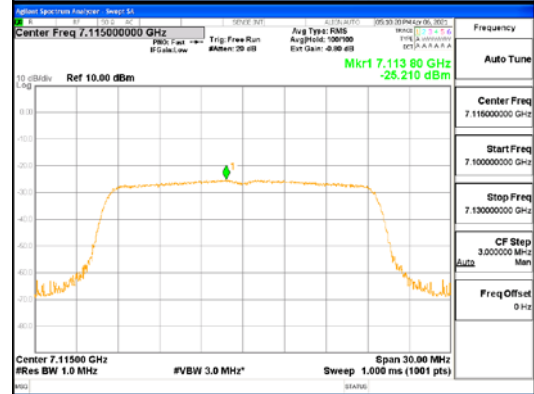
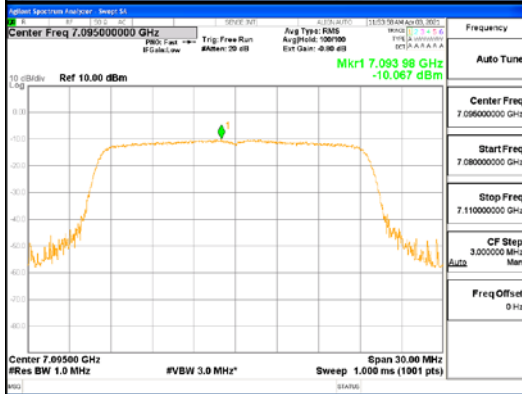
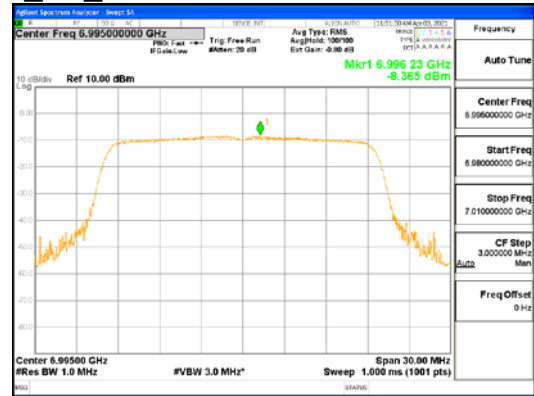
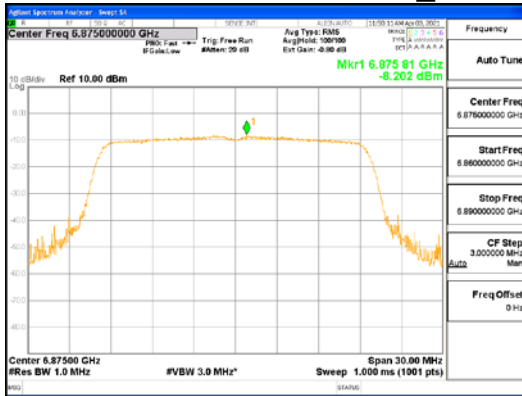


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (139) / (248) Pages



ANT1_802.11ax_HE20_SU_UNI I 7

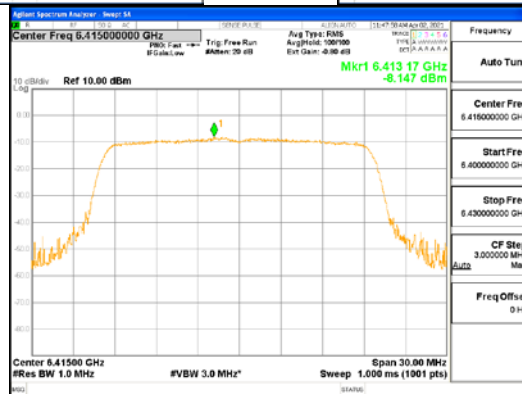
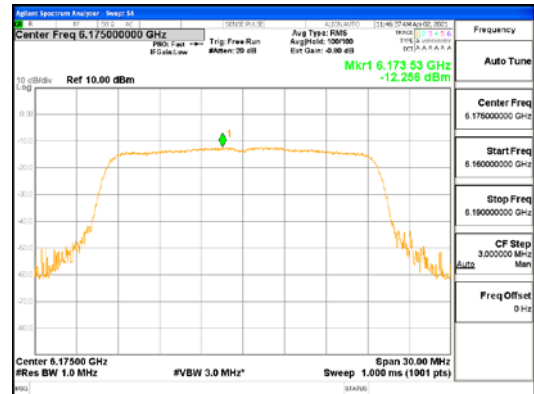
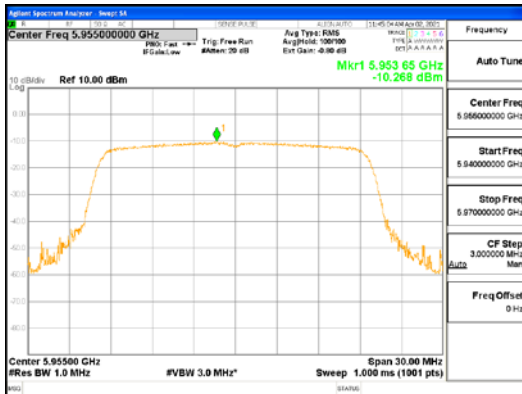


ANT1_802.11ax_HE20_SU_UNI I 8

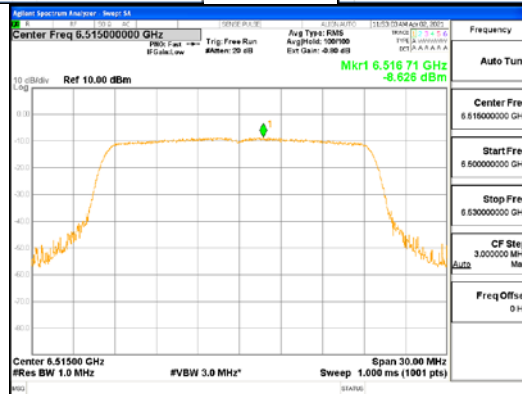
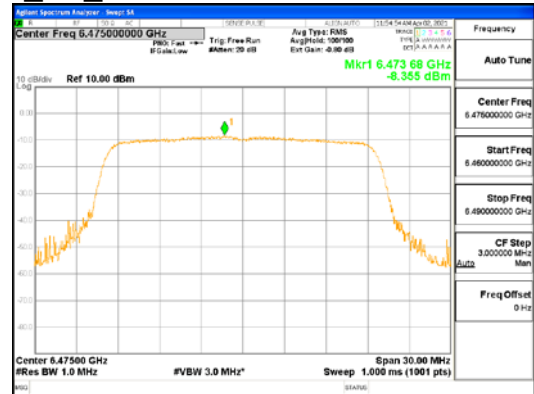
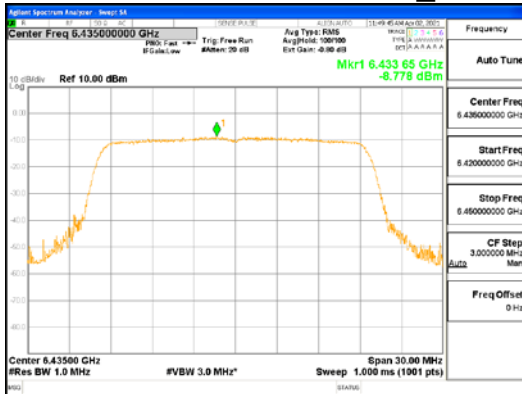


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (140) / (248) Pages



ANT2_802.11ax_HE20_SU_UNI I 5

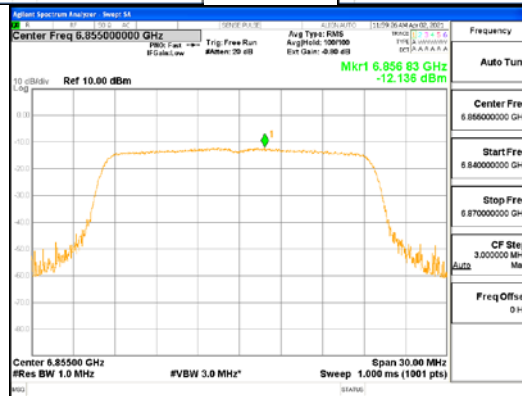
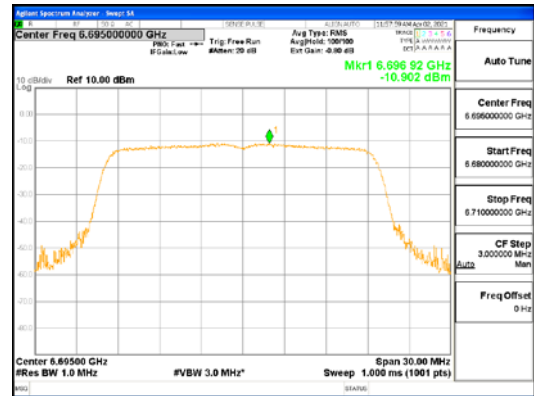
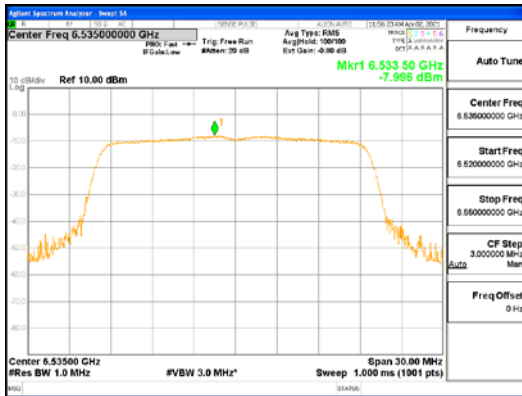


ANT2_802.11ax_HE20_SU_UNI I 6

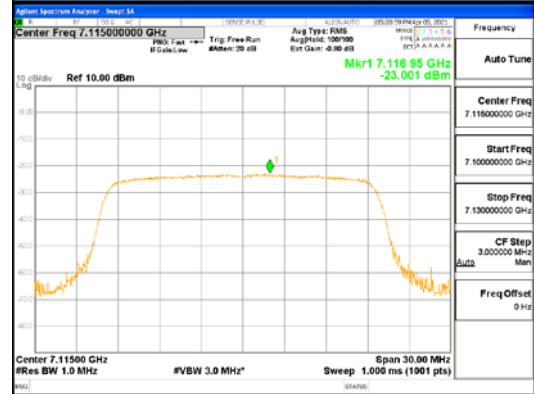
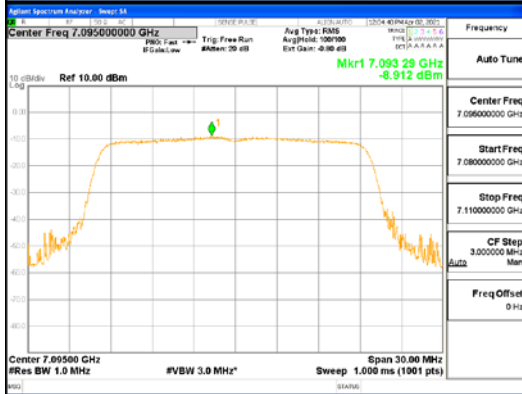
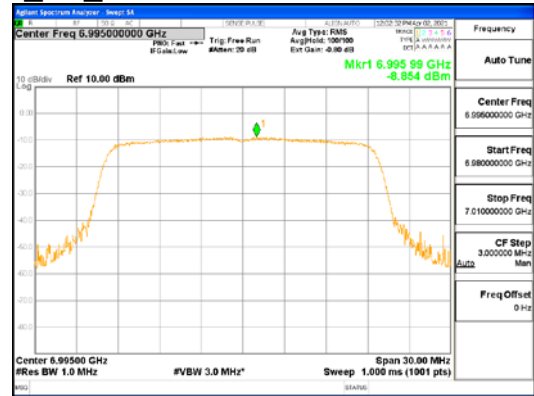
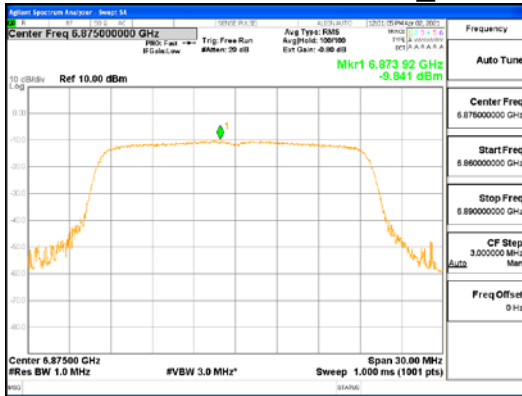


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (141) / (248) Pages



ANT2_802.11ax_HE20_SU_UNI I 7

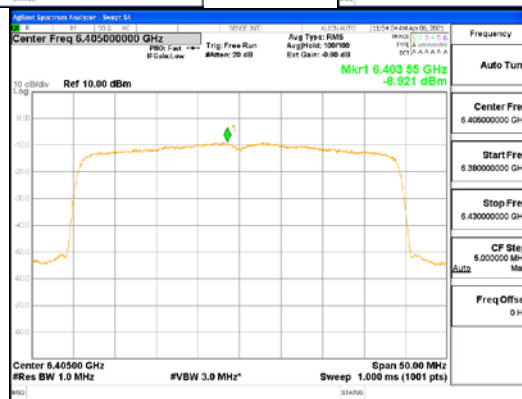
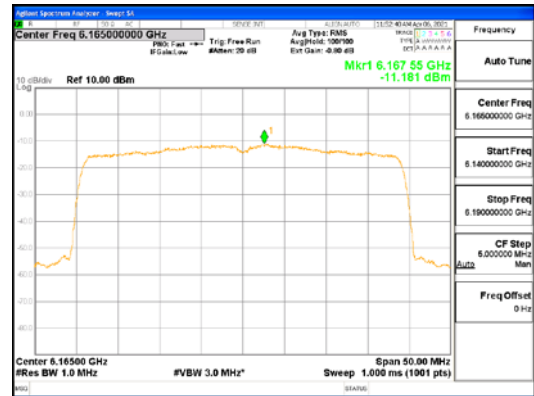
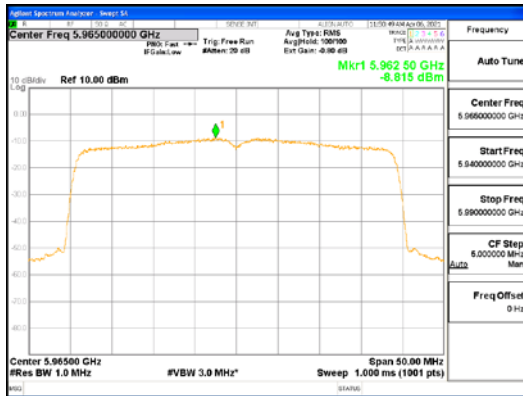


ANT2_802.11ax_HE20_SU_UNI I 8

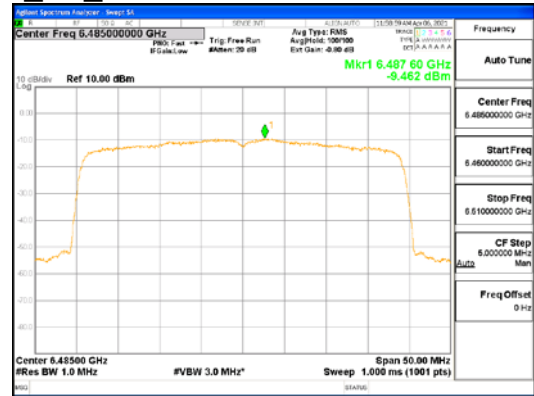
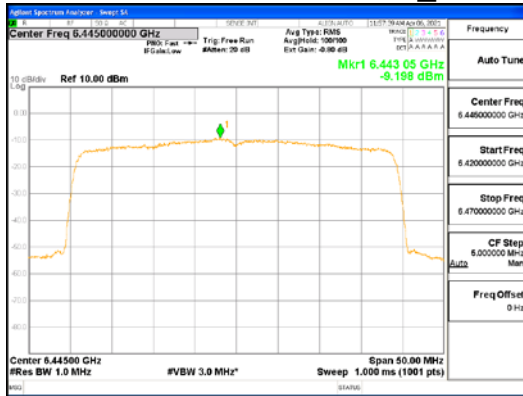


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2021-03423
Page (142) / (248) Pages



ANT1_802.11ax_HE40_SU_UNI I 5

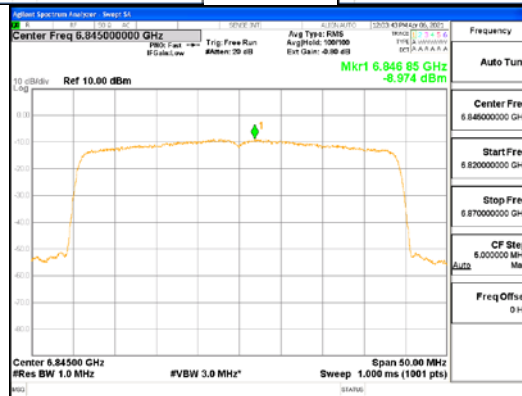
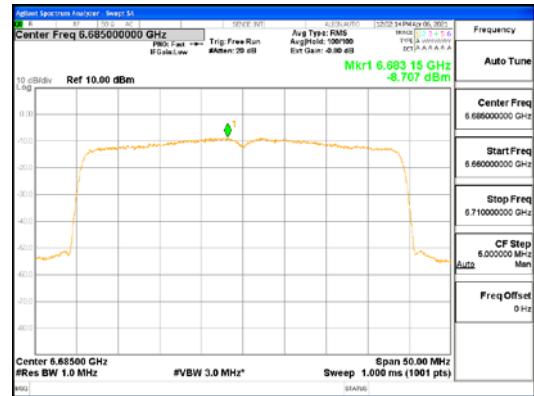
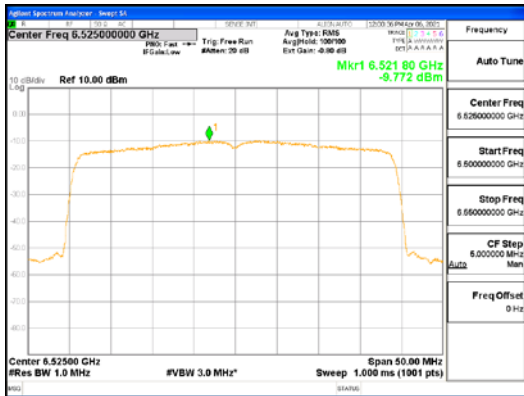


ANT1_802.11ax_HE40_SU_UNI I 6

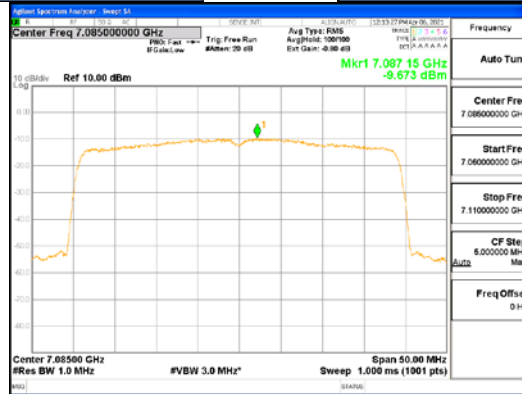
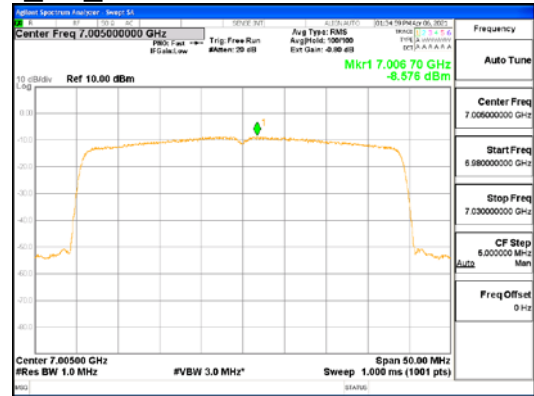
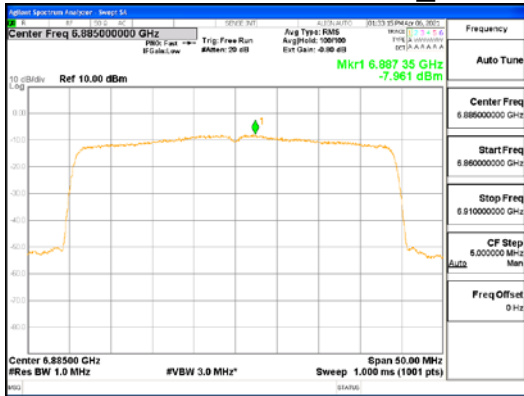


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

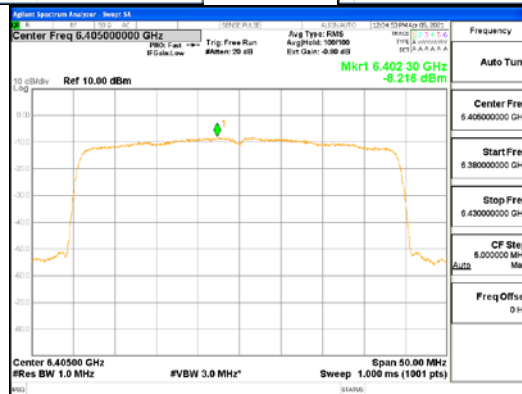
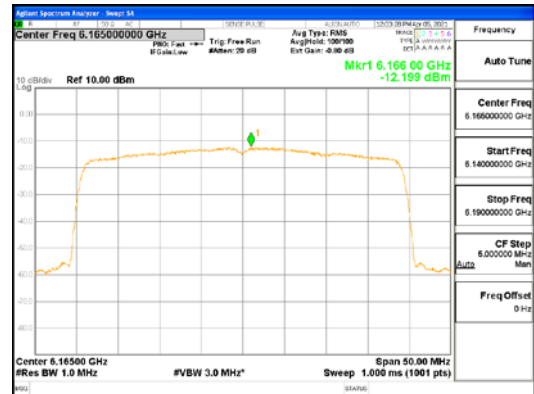
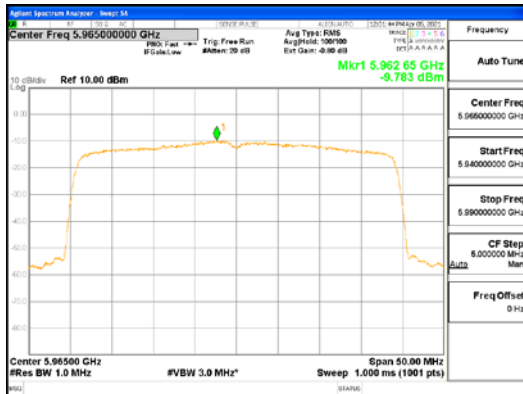
Report No.:
 CTK-2021-03423
 Page (143) / (248) Pages



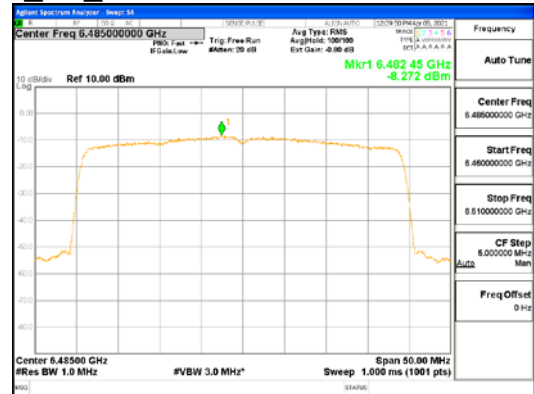
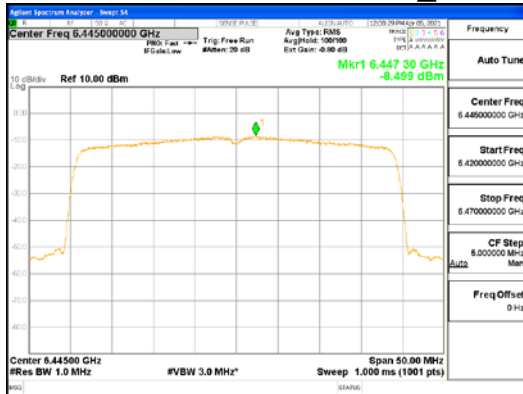
ANT1_802.11ax_HE40_SU_UNI I 7



ANT1_802.11ax_HE40_SU_UNI I 8



ANT2_802.11ax_HE40_SU_UNI I 5

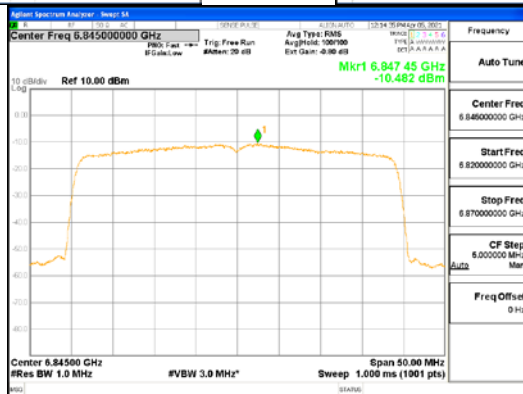
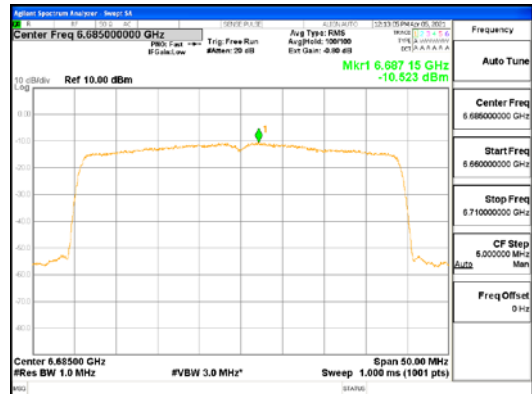
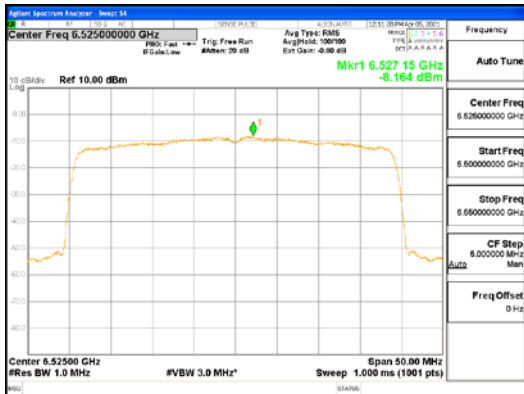


ANT2_802.11ax_HE40_SU_UNI I 6

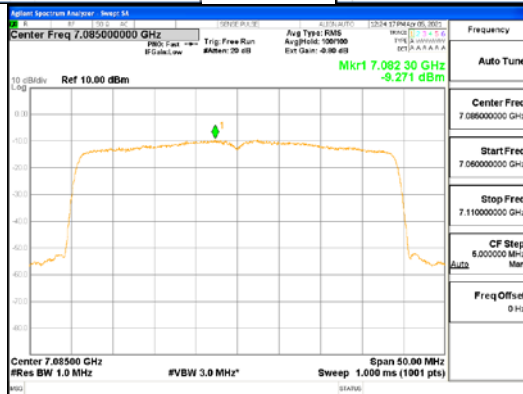
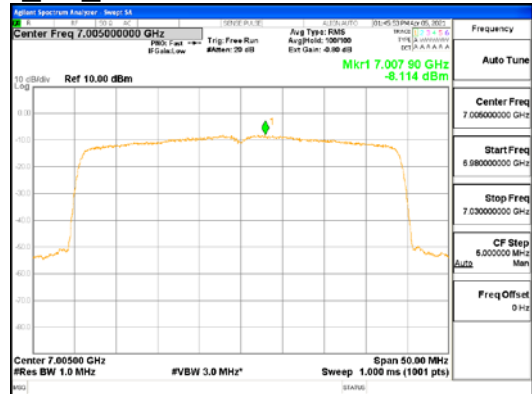
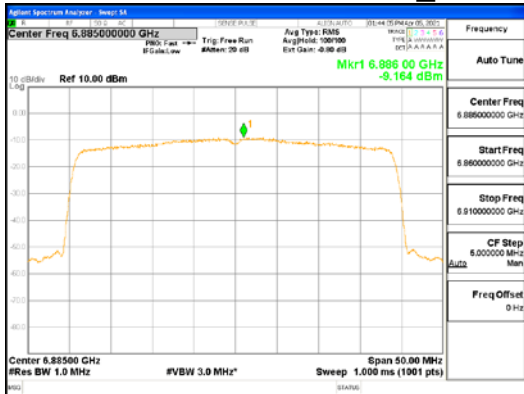


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (145) / (248) Pages



ANT2_802.11ax_HE40_SU_UNI I 7

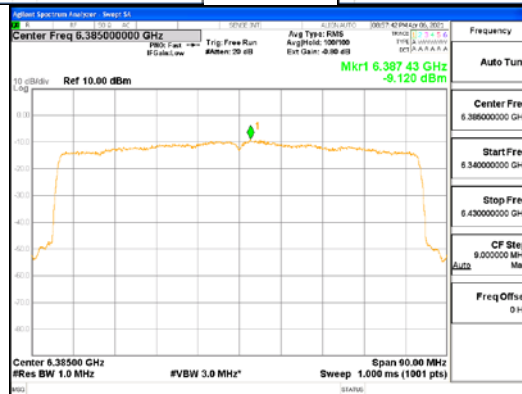
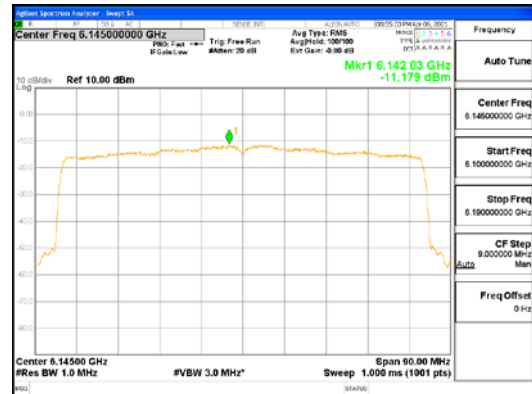
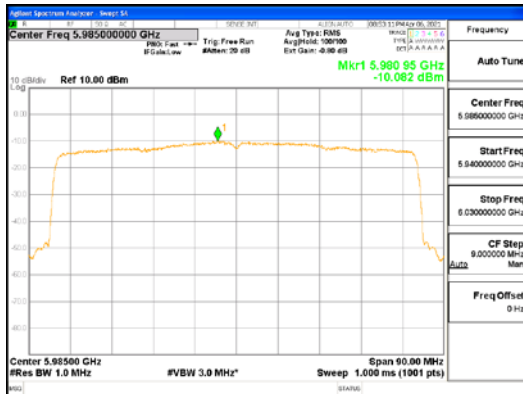


ANT2_802.11ax_HE40_SU_UNI I 8

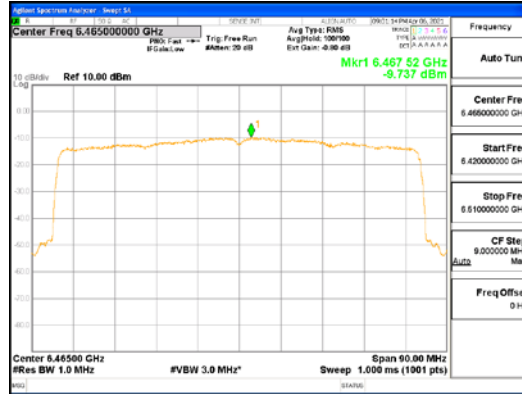


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

Report No.:
 CTK-2021-03423
 Page (146) / (248) Pages



ANT1_802.11ax_HE80_SU_UNI I 5

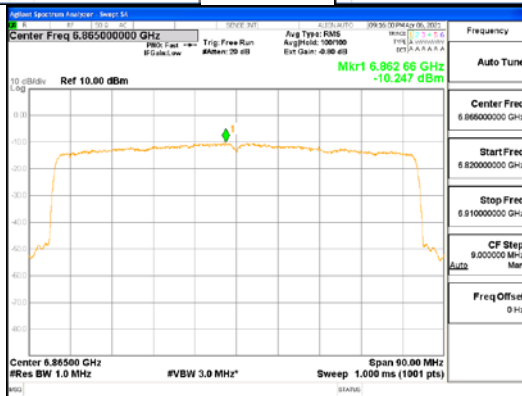
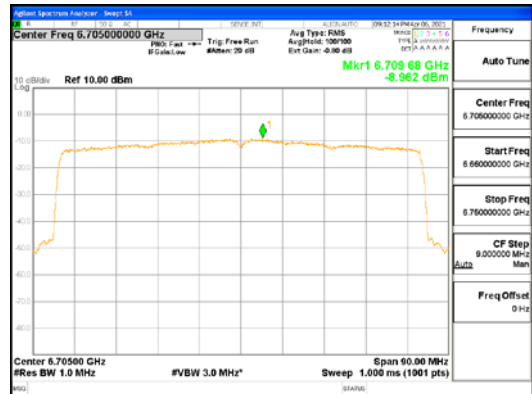
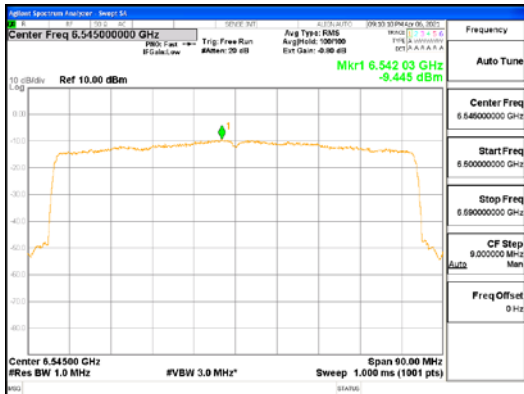


ANT1_802.11ax_HE80_SU_UNI I 6

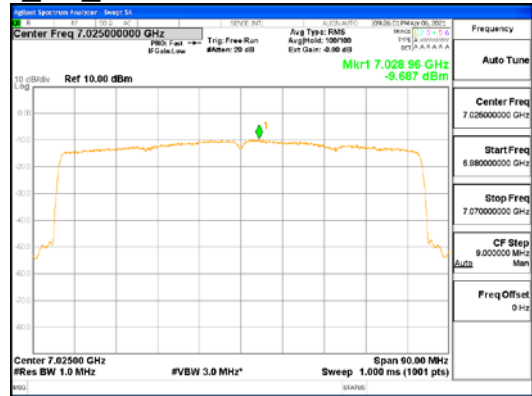
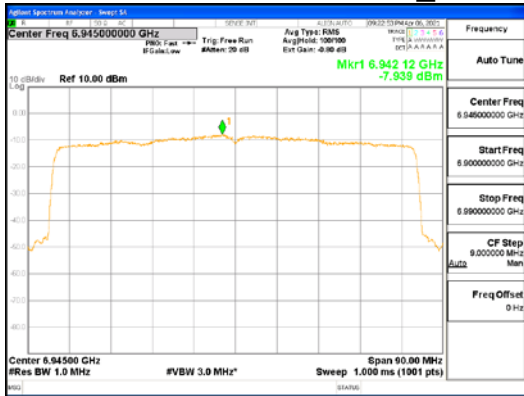


CTK Co., Ltd.
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,
 Yongin-si, Gyeonggi-do, Korea
 Tel: +82-31-339-9970
 Fax: +82-31-624-9501

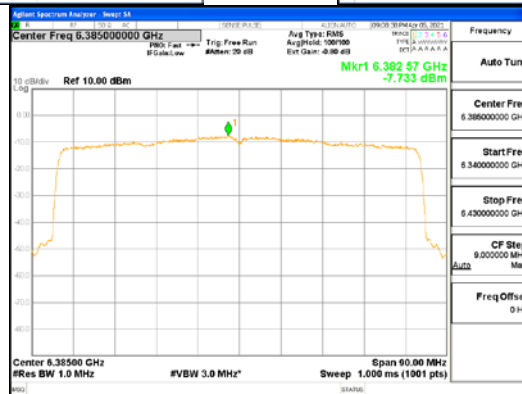
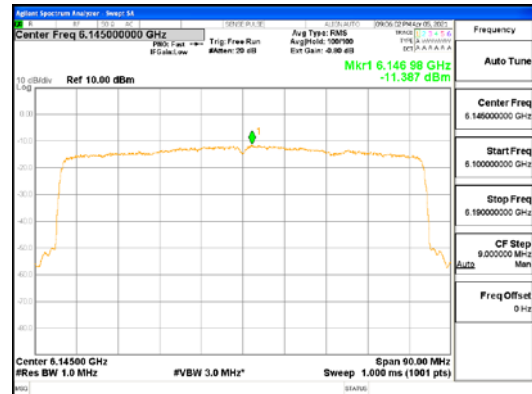
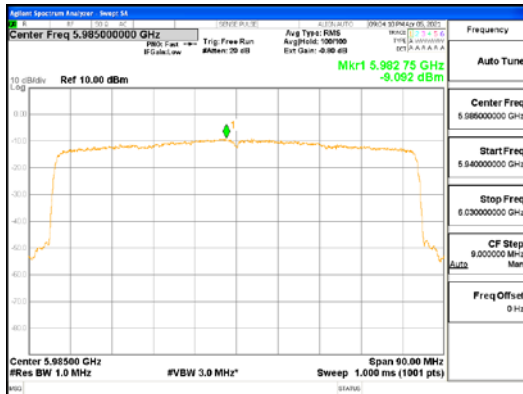
Report No.:
 CTK-2021-03423
 Page (147) / (248) Pages



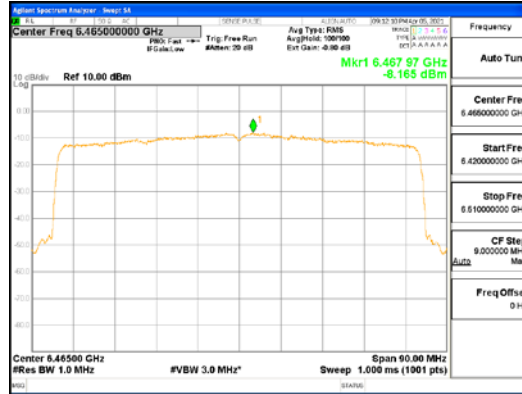
ANT1_802.11ax_HE80_SU_UNI I 7



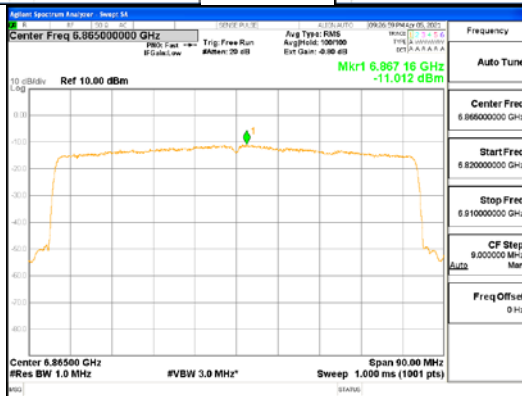
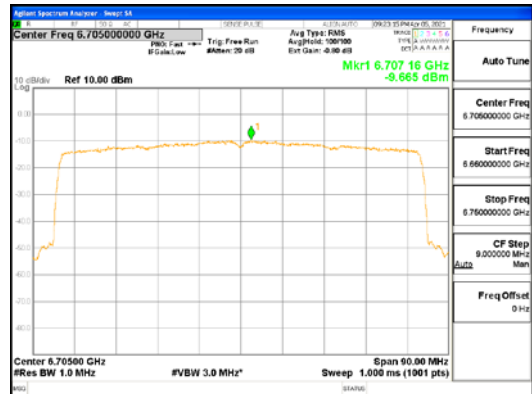
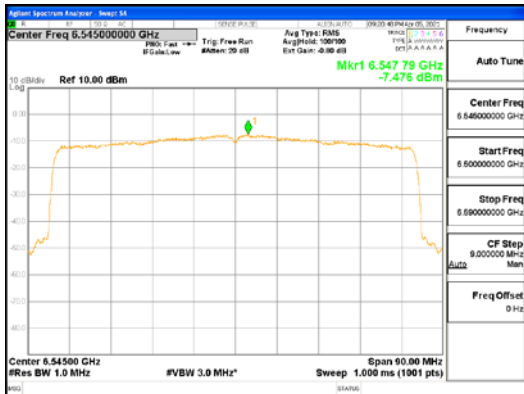
ANT1_802.11ax_HE80_SU_UNI I 8



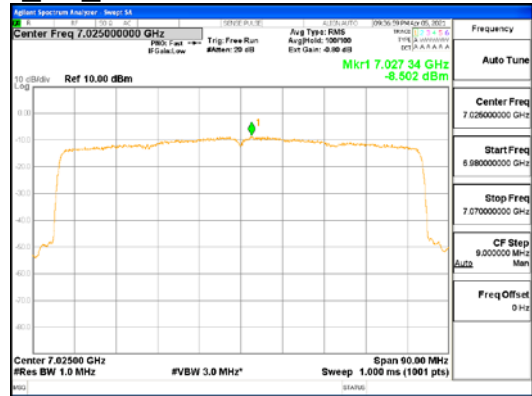
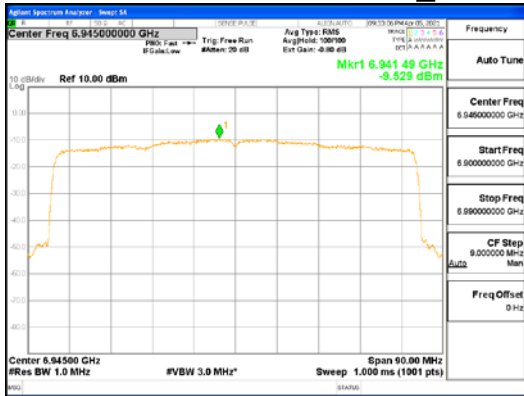
ANT2_802.11ax_HE80_SU_UNI I 5



ANT2_802.11ax_HE80_SU_UNI I 6



ANT2_802.11ax_HE80_SU_UNI I 7



ANT2_802.11ax_HE80_SU_UNI I 8