TEST REPORT

of

FCC Part 15 Subpart C §15.247

FCC ID: ZNFD855

Equipment Under Test	:	Cellular/PCS GSM/GPRS/EDGE/WCDMA and LTE phone with Bluetooth, WLAN and RFID
Model Name	:	LG-D855
Alternative models	:	LGD855, D855, LG-D855k, LG-D855K, LGD855k, LGD855K, D855k, D855K
Applicant	:	LG Electronics MobileComm U.S.A., Inc.
Manufacturer	:	LG Electronics MobileComm U.S.A., Inc.
Date of Test(s)	:	2014. 04. 16 ~ 2014. 04. 30
Date of Issue	:	2014. 05. 26

In the configuration tested, the EUT complied with the standards specified above.

Tested By: Alvin Kim **Date:** 2014. 05. 26

Approved By: Feel Jeong **Date:** 2014. 05. 26

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- Wireless Div. 3FL, 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 435-040

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

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1.2. Details of Applicant

Applicant : LG Electronics MobileComm U.S.A., Inc.
Address : 10101 Old Grove Road, San Diego, CA 92131
Contact Person : Lee, Sang-Myung
Phone No. : +82 2 2033 4606

1.3. Description of EUT

Kind of Product	Cellular/PCS GSM/GPRS/EDGE/WCDMA and LTE phone with Bluetooth, WLAN and RFID
Model Name	LG-D855 (Alternative models: LGD855, D855, LG-D855k, LG-D855K, LGD855k, LGD855K, D855k, D855K)
Power Supply	DC 3.8 V
Frequency Range	13.56 ㎒ (NFC) 2 402 ㎒ ~ 2 480 ㎒ (BT, BT LE), 2 412 ㎒ ~ 2 462 ㎒ (11b/g/n_HT20), 5 745 ㎒ ~ 5 825 ㎒ (Band 3: 11a/n_HT20, 11ac_VHT20), 5 755 ㎒ ~ 5 795 ㎒ (Band 3: 11n_HT40, 11ac_VHT40), 5 775 ㎒ (Band 3: 11ac_VHT80), 5 180 ㎒ ~ 5 240 ㎒ (Band 1: 11a/n_HT20, 11ac_VHT20), 5 190 ㎒ ~ 5 230 ㎒ (Band 1: 11n_HT40, 11ac_VHT40), 5 210 ㎒ (Band 1: 11ac_VHT80), 5 260 ㎒ ~ 5 320 ㎒ (Band 2A: 11a/n_HT20, 11ac_VHT20), 5 270 ㎒ ~ 5 310 ㎒ (Band 2A: 11n_HT40, 11ac_VHT40), 5 290 ㎒ (Band 2A: 11ac_VHT80), 5 500 ㎒ ~ 5 700 ㎒ (Band 2C: 11a/n_HT20, 11ac_VHT20), 5 510 ㎒ ~ 5 670 ㎒ (Band 2C: 11n_HT40, 11ac_VHT40), 5 530 ㎒ (Band 2C: 11ac_VHT80)
Modulation Technique	DSSS, OFDM, GFSK, π/4DQPSK, 8DPSK, ASK
Number of Channels	11 channel (11b/g/n_HT20), 5 channel (Band 3: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 3: 11n_HT40, 11ac_VHT40), 1 channel (Band 3: 11ac_VHT80), 4 channel (Band 1: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 1: 11n_HT40, 11ac_VHT40), 1 channel (Band 1: 11ac_VHT80), 4 channel (Band 2A: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 2A: 11n_HT40, 11ac_VHT40), 1 channel (Band 2A: 11ac_VHT80), 8 channel (Band 2C: 11a/n_HT20, 11ac_VHT20), 3 channel (Band 2C: 11n_HT40, 11ac_VHT40), 1 channel (Band 2C: 11ac_VHT80), 79 channel (BT), 40 channel (BT LE), 1 channel (NFC)
Antenna Type	Internal type (SISO)
Antenna Gain	2 402 ㎒ ~ 2 480 ㎒, 2 412 ㎒ ~ 2 462 ㎒: -3.09 ㏈i, 5 180 ㎒ ~ 5 320 ㎒: -1.58 ㏈i, 5 500 ㎒ ~ 5 700 ㎒: -0.13 ㏈i, 5 745 ㎒ ~ 5 825 ㎒: -0.13 ㏈i

1.4. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal Date	Cal Interval	Cal Due.
Signal Generator	R&S	SMBV100A	259067	Jul. 15, 2013	Annual	Jul. 15, 2014
Signal Generator	R&S	SMR40	100272	Aug. 10, 2013	Annual	Aug. 10, 2014
Spectrum Analyzer	Agilent	N9030A	US51350132	Oct. 08, 2013	Annual	Oct. 08, 2014
Attenuator	MCLI	FAS-23-20	25573	Jun. 19, 2013	Annual	Jun. 19, 2014
Attenuator	MCLI	FAS-12-10	1	Jun. 19, 2013	Annual	Jun. 19, 2014
High Pass Filter	Wainwright	WHK3.0/18G-10SS	344	Jun. 08, 2013	Annual	Jun. 08, 2014
High Pass Filter	Wainwright	WHNX7.5/26.5G-6SS	11	Jun. 08, 2013	Annual	Jun. 08, 2014
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Jun. 12, 2013	Annual	Jun. 12, 2014
Power Meter	Anritsu	ML2495A	1223004	Jun. 13, 2013	Annual	Jun. 13, 2014
Power Sensor	Anritsu	MA2411B	1207272	Jun. 13, 2013	Annual	Jun. 13, 2014
Power Sensor	R&S	NRP-Z81	100418	Mar. 19, 2014	Annual	Mar. 19, 2015
DC power Supply	Agilent	U8002A	MY49030063	Dec. 12, 2013	Annual	Dec. 12, 2014
Preamplifier	H.P.	8447F	2944A03909	Jun. 28, 2013	Annual	Jun. 28, 2014
Preamplifier	R&S	SCU 18	1391123	Sep. 30, 2013	Annual	Sep. 30, 2014
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	Jun. 13, 2013	Annual	Jun. 13, 2014
Loop Antenna	R&S	HFH2-Z2	100118	Jul. 12, 2013	Biennial	Jul. 12, 2015
Bilog Antenna	SCHWARZBECK	VULB9163	396	Jun. 07, 2013	Biennial	Jun. 07, 2015
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170431	Aug. 24, 2012	Biennial	Aug. 24, 2014
Horn Antenna	R&S	HF906	100326	Dec. 10, 2013	Biennial	Dec. 10, 2015
Test Receiver	R&S	ESU26	100109	Mar. 04, 2014	Annual	Mar. 04, 2015
Antenna Master	INN-CO	MM4000	N/A	N/A	N/A	N.C.R.
Turn Table	INN-CO	DS 1200 S	N/A	N/A	N/A	N.C.R.
Test Receiver	R&S	ESHSI0	863365/018	Jun, 27. 2013	Annual	Jun, 27. 2014
Two-Line V-Network	R&S	ENV216	100190	Jan. 02, 2014	Annual	Jan. 02, 2015
Anechoic Chamber	SY Corporation	L × W × H (6.5 m × 3.5 m × 3.5 m)	N/A	N/A	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N/A	N/A	N.C.R.

▶ Support equipment

Description	Manufacturer	Model	Serial Number	FCC ID
Wireless Charger	LG Electronics	WCP-300	306HYNY008023	BEJWCP300

1.5. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part15 Subpart C §15.247		
Standard section	**Test Item(s)**	**Result**
15.205(a) 15.209 15.247(d)	Transmitter Radiated Spurious Emissions Conducted Spurious Emission	Complied
15.247(a)(2)	6 dB Bandwidth	Complied
15.247(b)(3)	Maximum Conducted Output Power	Complied
15.247(e)	Power Spectral Density	Complied
15.207	Transmitter AC Power Line Conducted Emission	Complied

1.6. Test Procedure(s)

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 ㎑ to 40 ㎓ (ANSI C63.4-2003) and the guidance provided in KDB 558074 v03r01 were used in the measurement of the DUT.

1.7. Sample calculation

Where relevant, the following sample calculation is provided:

1.7.1. Conducted test

Offset value (㏈) = Attenuator (㏈) + Cable loss (㏈)

1.7.2. Radiation test

Field strength level (㏈㎶/m) = Measured level (㏈㎶) + Antenna factor (㏈) + Cable loss (㏈) - amplifier (㏈)

1.8. Test report revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL007641	2014. 05. 12	Initial
1	F690501/RF-RTL007641-1	2014. 05. 26	Remove S/W and H/W version

1.9. Information of Alternative model

Model	Information
LG-D855	Basic model name.
LGD855	H/W and S/W are same to basic model. It is only different model name for marketing purpose
D855	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LG-D855k	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LG-D855K	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LGD855k	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LGD855K	H/W and S/W are same to basic model. It is only different model name for marketing purpose
D855k	H/W and S/W are same to basic model. It is only different model name for marketing purpose
D855K	H/W and S/W are same to basic model. It is only different model name for marketing purpose

1.10. Duty Cycle of EUT

Regarding to KDB558074 v03r01, 6.0, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below
Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value, Set VBW ≥ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100.

Mode	Data Rate									
11b	**1**	**2**	**5.5**	**11**						
Duty Cycle (%)	99	98	96	93	-	-	-	-	-	-
Correction factor (dB)	0.04	0.09	0.18	0.32	-	-	-	-	-	-
11g	**6**	**9**	**12**	**18**	**24**	**36**	**48**	**54**		
Duty Cycle (%)	95	92	90	86	83	78	73	71	-	-
Correction factor (dB)	0.22	0.36	0.46	0.66	0.81	1.08	1.37	1.49	-	-
11a	**6**	**9**	**12**	**18**	**24**	**36**	**48**	**54**		
Duty Cycle (%)	95	92	90	86	83	78	73	71	-	-
Correction factor (dB)	0.22	0.36	0.46	0.66	0.81	1.08	1.37	1.49	-	-
11n_HT20	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**		
Duty Cycle (%)	94	90	85	81	77	69	67	65	-	-
Correction factor (dB)	0.27	0.46	0.71	0.92	1.14	1.61	1.74	1.87	-	-
11n_HT40	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**		
Duty Cycle (%)	89	81	76	69	61	54	55	50	-	-
Correction factor (dB)	0.51	0.92	1.19	1.61	2.15	2.68	2.60	3.01	-	-
11ac_VHT20	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**	**MCS8**	
Duty Cycle (%)	90	82	78	71	66	58	58	57	50	-
Correction factor (dB)	0.46	0.86	1.08	1.49	1.80	2.37	2.37	2.44	3.01	-
11ac_VHT40	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**	**MCS8**	**MCS9**
Duty Cycle (%)	82	73	66	62	55	50	47	47	44	44
Correction factor (dB)	0.86	1.37	1.80	2.08	2.60	3.01	3.28	3.28	3.57	3.57
11ac_VHT80	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**	**MCS8**	**MCS9**
Duty Cycle (%)	71	56	52	47	44	41	38	38	38	31
Correction factor (dB)	1.49	2.52	2.84	3.28	3.57	3.87	4.20	4.20	4.20	5.09

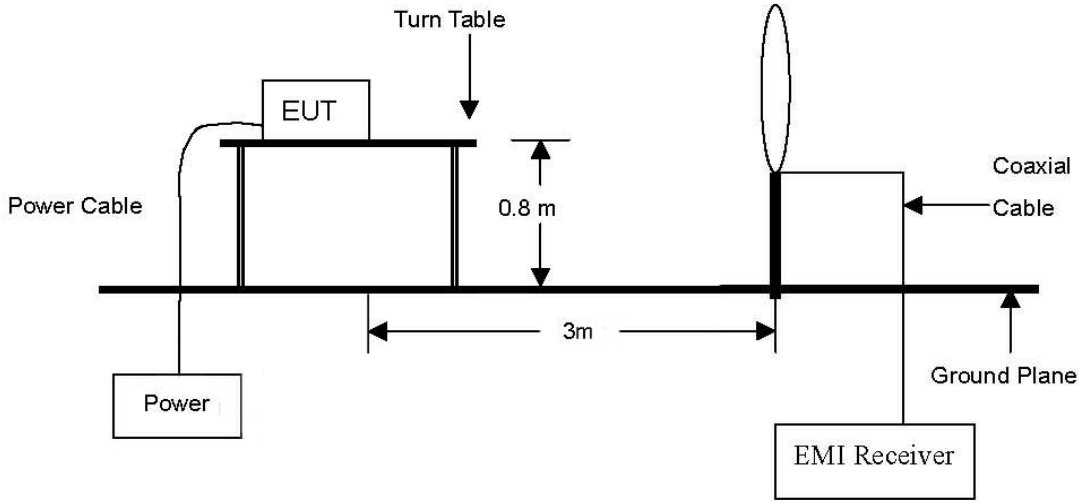
Remark:
1. As measured duty cycles of EUT, all of mode and data rate keep constant period and are converted to log scale (power averaging) to compensate correction factor to result of average test items.
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))

2. Transmitter Radiated Spurious Emissions and Conducted Spurious Emission

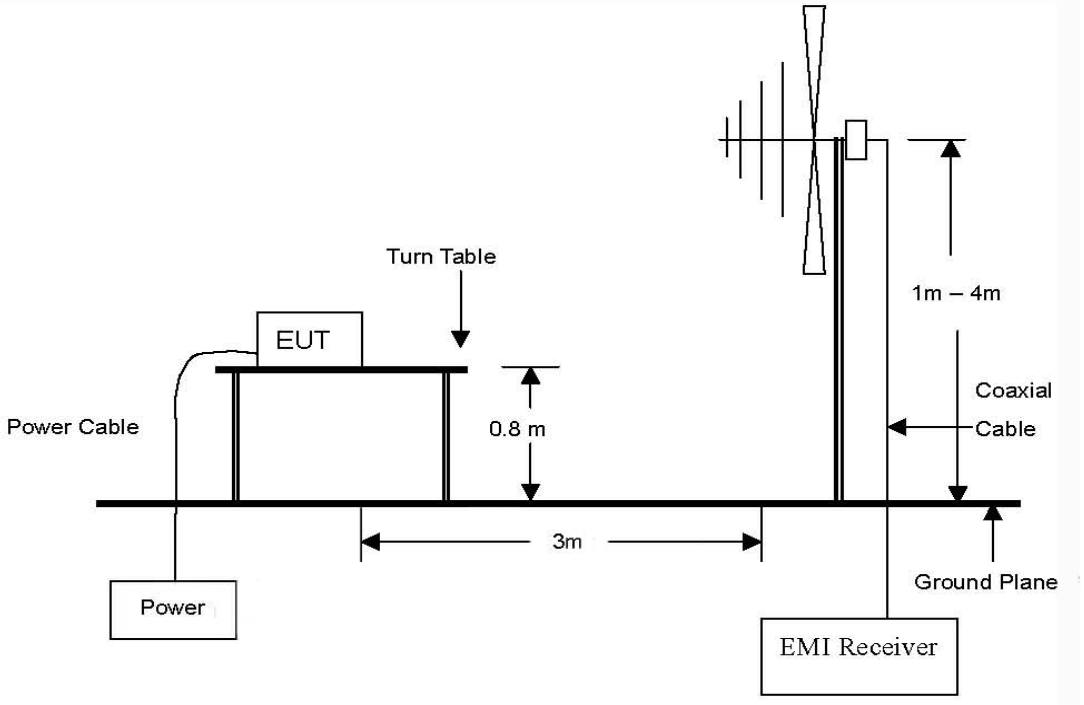
2.1. Test Setup

2.1.1. Transmitter Radiated Spurious Emissions

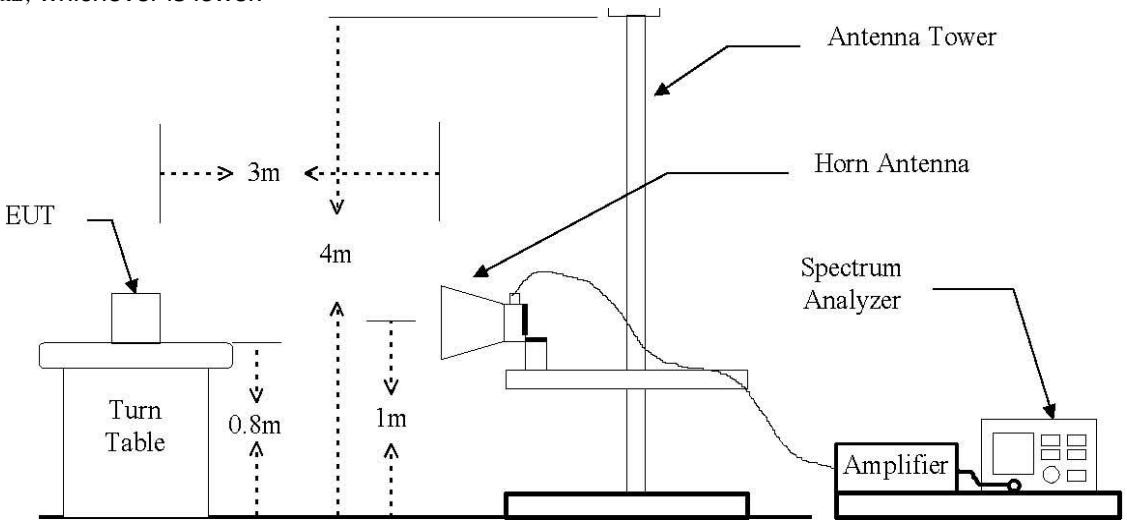
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒ Emissions.



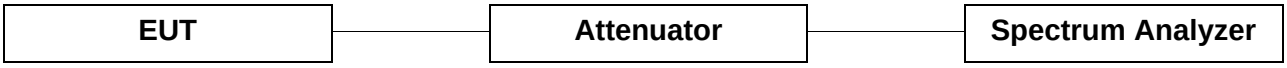
The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated form 1 ㎓ to the 10th harmonic of the highest fundamental frequency or 40 ㎓, whichever is lower.



2.1.2. Conducted Spurious Emission



2.2. Limit

According to §15.247(d), in any 100 ㎑ bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 ㏈ below that in the 100 ㎑ bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement , provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval , as permitted under paragraph(b)(3) of this section , the attenuation required under this paragraph shall be 30 ㏈ instead of 20 ㏈. Attenuation below the general limits specified in section §15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section §15.205(a), must also comply the radiated emission limits specified in section §15.209(a) (see section §15.205(c))

According to § 15.209(a), Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table：

Frequency (㎒)	Distance (Meters)	Field Strength (㏈㎶/m)	Field Strength (㎶/m)
0.009 – 0.490	300	20 log (2 400/F(㎑))	2 400/F(㎑)
0.490 – 1.705	30	20 log (24 000/F(㎑))	24 000/F(㎑)
1.705 – 30.0	30	29.54	30
30 - 88	3	40.0	100
88 – 216	3	43.5	150
216 – 960	3	46.0	200
Above 960	3	54.0	500

2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates in section 11.0 & 12.0 of KDB 558074_v03r01and ANSI C63.4 2003.

Battery cover used on device is supported to operating during battery charging condition with wireless charger.

According to KDB648474 D03 Wireless Chargers Battery Cover v01r02, transmitter spurious emissions measurement had to be adjusted as two kinds of test which are without battery charger and with battery charger during normal charging condition in radiation spurious emission.

2.3.1. Test Procedures for emission below 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 ㎓, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 ㎓, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 ㏈ lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 ㏈ margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE;

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

1. Unwanted Emissions into Non-Restricted Frequency Bands

- The Reference Level Measurement refer to section 11.2
Set analyzer center frequency to DTS channel center frequency, SPAN ≥ 1.5 times the DTS channel bandwidth, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold

- Unwanted Emissions Level Measurement refer to section 11.3
Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Ensure that the number of measurement points ≥span/RBW, Sweep time = Auto couple, Trace = Max hold

2. Unwanted Emissions into Restricted Frequency Bands

- Peak Power measurement procedure refer to section 12.2.4
Set RBW = as specified in Table 1, VBW ≥ 3 x RBW, SPAN ≥ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold

Table 1- RBW as a function of frequency

Frequency	RBW
9 – 150 ㎑	200 – 300 ㎐
0.15 – 30 ㎒	9 – 10 ㎑
30 – 1 000 ㎒	100 – 120 ㎑
>1 000 ㎒	1 ㎒

-Average Power measurements procedure refer to section 12.2.5.2
The EUT shall be configured to operate at the maximum achievable duty cycle.
Measure the duty cycle, x, of the transmitter output signal as described in section 6.0.
Set RBW = 1 ㎒, VBW ≥ 3 x RBW, Detector = RMS, if span/(# of points in sweep) ≤(RBW/2).
Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied then the detector mode shall be set to peak,

Averaging type = power(i.e., RMS).
As an alternative the detector and averaging type may be set for linear voltage averaging.
Some instruments require linear display mode in order to use linear voltage averaging. Log or ㏈ averaging shall not be used. Sweep time = auto, Perform a trace average of at least 100 traces.

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is 10 log (1/x), where x is the duty cycle.

3. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes.

Worst orthogonal plan of EUT is **Z – axis** during radiation test.

2.3.3. Test Procedures for Conducted Spurious Emissions

All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

Per the guidance of KDB 558074 v03r01, section 11.1 & 11.2, the reference level for out of band emissions is established from the plots of this section since the band edge emissions are measured with a RBW of 100 ㎑. This reference level is then used as the limit in subsequent plots for out of band spurious emissions shown in section 2.4.3. The limit for out of band spurious emission at the band edge is 20 ㏈ or 30 ㏈ below the fundamental emission level measured in a 100 ㎑ bandwidth.

1. Conducted Emissions at Band Edge
 - The Measurement refer to section 11.3
   Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold, Ensure that the number of measurement points ≥ span/RBW, The trace was allowed to stabilize.

2. Conducted Spurious Emissions
 - The Measurement refer to section 11.3
   Start frequency was set to 30 ㎒ and stop frequency was set to 25 ㎓ (separated into two plots per channel), RBW = 1 ㎒, VBW = 3 ㎒ Detector = Peak, Sweep time = Auto couple, Trace = Max hold, The trace was allowed to stabilize.

 - RBW was set to 1 ㎒ rather than 100 ㎑ in order to increase the measurement speed.
 - The display line shown in section 2.4 plots denotes the limit at 20 ㏈ below the fundamental emission level measured in a 100 ㎑ bandwidth. However, since the traces in the plots are measured with a 1 ㎒ RBW, the display line may not necessarily appear to be 20 ㏈ below the level of the fundamental in a 1 ㎒ bandwidth.
 - For plots showing conducted spurious emissions near the limits, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

3. Correction factor
 - For plots showing conducted spurious emissions from 30 ㎒ to 40 ㎓, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as correction factor.
   The reading values shown in plots were final result.

2.4. Test Results

Ambient temperature : (23 ± 2) ℃
Relative humidity : 47 % R.H.

2.4.1. Radiated Spurious Emission

The frequency spectrum from 9 ㎑ to 1 000 ㎒ was investigated. All reading values are applied for peak, quasi peak and average values per frequency band.

2.4.1.1. Battery Cover without charger

Radiated Emissions			Ant.	Correction Factors		Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
44.63	33.88	Peak	H	14.72	-26.80	21.80	40.00	18.20
48.59	31.55	Peak	V	15.89	-26.74	20.70	40.00	19.30
96.24	34.99	Peak	H	12.09	-26.28	20.80	43.50	22.70
101.26	30.89	Peak	V	14.44	-26.23	19.10	43.50	24.40
412.87	33.53	Peak	V	17.27	-25.20	25.60	46.00	20.40
566.65	33.96	Peak	H	18.87	-25.33	27.50	46.00	18.50
Above 600.00	Not detected	-	-	-	-	-	-	-

Remark:

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 ㎓.
2. Reported spurious emissions are in **11b / 1 Mbps / High channel** as worst case among other modes.
3. Radiated spurious emission measurement as below
   (Actual = Reading + Antenna Factor + Amp + CL)

2.4.1.2. Battery Cover with charger

- Emissions below 30 ㎒

Radiated Emissions			Ant.	Correction Factors		Total		FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dB㎶/m) at 3 m	Actual (dB㎶/m) at 30 m or 300 m	Limit (dB㎶/m)	Margin (dB)
0.15	48.60	Average	H	18.68	0.04	67.32	-12.68	24.08	36.76
0.44	24.50	Average	H	18.53	0.07	43.10	-36.90	14.74	51.64
0.72	17.80	Q.P.	H	18.50	0.09	36.39	-3.61	30.46	34.07
1.00	12.90	Q.P.	H	18.50	0.11	31.51	-8.49	27.60	36.09

- Emissions above 30 ㎒

Radiated Emissions			Ant.	Correction Factors		Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
45.72	47.40	Peak	V	16.08	-26.78	36.70	40.00	3.30
49.08	43.58	Peak	V	15.85	-26.73	32.70	40.00	7.30
55.42	38.61	Peak	H	13.66	-26.67	25.60	40.00	14.40
85.37	45.53	Peak	V	11.34	-26.37	30.50	40.00	9.50
Above 100.00	Not detected	-	-	-	-	-	-	-

Remark:

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 ㎓.
2. Reported spurious emissions are in **11b / 1 Mbps / High channel** as worst case among other modes.
3. Radiated spurious emission measurement as below
   (Actual = Reading + Antenna Factor + Amp + CL)
4. Measurement with wireless charger was performed during actual charging condition.
5. Emissions of the frequency between 0.009 ㎒ and 0.490 ㎒ should be adjusted at 300m distance.
   Distance compensation: 40 log (300/3) = 80 ㏈
6. Emissions of the frequency between 0.490 ㎒ and 1.705 ㎒ should be adjusted at 30m distance.
   Distance compensation: 40 log (30/3) = 40 ㏈

2.4.2. Spurious Radiated Emission

The frequency spectrum above 1 000 ㎒ was investigated. Emission levels are not reported much lower than the limits by over 30 ㏈.

2.4.2.1. Battery Cover without charger

DSSS : 802.11b (1 Mbps)
Low Channel (2 412 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (㏈㎶)	Detect Mode	Pol.	AF (㏈/m)	CL (㏈)	Duty (㏈)	Actual (㏈㎶/m)
2 411.50	64.92	Peak	H	28.09	6.30	-	99.31

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (㏈㎶)	Detect Mode	Pol.	AF (㏈/m)	CL (㏈)	Duty (㏈)	Actual (㏈㎶/m)	Limit (㏈㎶/m)	Margin (㏈)
*2 384.72	26.65	Peak	H	28.12	6.31	-	61.08	74.00	12.92
*2 384.72	15.23	Average	H	28.12	6.31	0.04	49.70	54.00	4.30
*2 390.00	24.60	Peak	H	28.08	6.25	-	58.93	74.00	15.07
*2 390.00	14.22	Average	H	28.08	6.25	0.04	48.59	54.00	5.41

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (㏈㎶)	Detect Mode	Pol.	AF (㏈/m)	AMP+ CL (㏈)	Duty (㏈)	Actual (㏈㎶/m)	Limit (㏈㎶/m)	Margin (㏈)
*4 822.75	40.55	Peak	H	32.78	-27.91	-	45.42	74.00	28.58
*4 822.75	28.89	Average	H	32.78	-27.91	0.04	33.80	54.00	20.20
7 227.30	25.30	Peak	H	35.83	-29.56	-	31.57	79.31	47.74
9 648.05	33.26	Peak	H	37.42	-24.76	-	45.92	79.31	33.39
Above 9 700.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 439.05	62.97	Peak	H	28.00	6.73	-	97.70

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 869.80	39.78	Peak	H	33.02	-27.57	-	45.23	74.00	28.77
*4 869.80	28.74	Average	H	33.02	-27.57	0.04	34.23	54.00	19.77
*7 324.14	36.48	Peak	H	36.25	-31.58	-	41.15	74.00	32.85
*7 324.14	25.95	Average	H	36.25	-31.58	0.04	30.66	54.00	23.34
9 748.03	29.88	Peak	H	37.34	-24.64	-	42.58	77.70	35.12
Above 9 800.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 462.50	62.01	Peak	H	28.14	6.60	-	96.75

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	24.25	Peak	H	28.17	6.27	-	58.69	74.00	15.31
*2 483.50	14.69	Average	H	28.17	6.27	0.04	49.17	54.00	4.83
*2 492.89	26.28	Peak	H	28.26	6.28	-	60.82	74.00	13.18
*2 492.89	15.46	Average	H	28.26	6.28	0.04	50.04	54.00	3.96

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 917.75	38.12	Peak	H	33.11	-27.42	-	43.81	74.00	30.19
*4 917.75	27.59	Average	H	33.11	-27.42	0.04	33.32	54.00	20.68
*7 385.34	35.71	Peak	H	36.03	-33.10	-	38.64	74.00	35.36
*7 385.34	26.53	Average	H	36.03	-33.10	0.04	29.50	54.00	24.50
9 848.05	29.31	Peak	H	37.57	-25.11	-	41.77	76.75	34.98
Above 9 900.00	Not detected	-	-	-	-	-	-	-	-

OFDM : 802.11g(6 Mbps)
Low Channel (2 412 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 414.50	58.99	Peak	H	28.09	6.34	-	93.42

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 389.84	27.99	Peak	H	28.08	6.25	-	62.32	74.00	11.68
*2 389.84	15.70	Average	H	28.08	6.25	0.22	50.25	54.00	3.75
*2 390.00	31.23	Peak	H	28.08	6.25	-	65.56	74.00	8.44
*2 390.00	15.43	Average	H	28.08	6.25	0.22	49.98	54.00	4.02

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 829.35	39.13	Peak	H	32.80	-27.93	-	44.00	74.00	30.00
*4 829.35	28.64	Average	H	32.80	-27.93	0.22	33.73	54.00	20.27
7 236.00	25.47	Peak	H	35.87	-29.27	-	32.07	73.42	41.35
9 648.05	32.80	Peak	H	37.42	-24.76	-	45.46	73.42	27.96
Above 9 700.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 444.50	58.67	Peak	H	28.05	6.82	-	93.54

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 863.35	38.82	Peak	H	33.03	-27.76	-	44.09	74.00	29.91
*4 863.35	28.54	Average	H	33.03	-27.76	0.22	34.03	54.00	19.97
*7 306.32	34.72	Peak	H	36.13	-32.16	-	38.69	74.00	35.31
*7 306.32	25.54	Average	H	36.13	-32.16	0.22	29.73	54.00	24.27
9 748.05	29.48	Peak	H	37.34	-24.64	-	42.18	73.54	31.36
Above 9 800.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 454.55	57.20	Peak	H	28.12	6.80	-	92.12

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	28.11	Peak	H	28.17	6.27	-	62.55	74.00	11.45
*2 483.50	14.75	Average	H	28.17	6.27	0.22	49.41	54.00	4.59
*2 484.37	28.00	Peak	H	28.18	6.27	-	62.45	74.00	11.55
*2 484.37	15.60	Average	H	28.18	6.27	0.22	50.27	54.00	3.73

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 921.20	37.01	Peak	H	33.11	-27.40	-	42.72	74.00	31.28
*4 921.20	27.19	Average	H	33.11	-27.40	0.22	33.12	54.00	20.88
*7 378.16	35.43	Peak	H	36.07	-32.62	-	38.88	74.00	35.12
*7 378.16	25.08	Average	H	36.07	-32.62	0.22	28.75	54.00	25.25
9 848.04	28.68	Peak	H	37.57	-25.11	-	41.14	72.12	30.98
Above 9 900.00	Not detected	-	-	-	-	-	-	-	-

OFDM : 802.11n_HT20(MCS0)
Low Channel (2 412 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 414.50	58.03	Peak	H	28.09	6.34	-	92.46

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 389.84	31.22	Peak	H	28.08	6.25	-	65.55	74.00	8.45
*2 389.84	15.77	Average	H	28.08	6.25	0.27	50.37	54.00	3.63
*2 390.00	30.02	Peak	H	28.08	6.25	-	64.35	74.00	9.65
*2 390.00	15.54	Average	H	28.08	6.25	0.27	50.14	54.00	3.86

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 818.42	37.02	Peak	H	32.76	-27.97	-	41.81	74.00	32.19
*4 818.42	27.12	Average	H	32.76	-27.97	0.27	32.18	54.00	21.82
7 236.00	25.29	Peak	H	35.87	-29.27	-	31.89	72.46	40.57
9 648.05	33.47	Peak	H	37.42	-24.76	-	46.13	72.46	26.33
Above 9 700.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 444.50	57.85	Peak	H	28.05	6.82	-	92.72

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 873.12	36.04	Peak	H	33.01	-27.47	-	41.58	74.00	32.42
*4 873.12	27.66	Average	H	33.01	-27.47	0.27	33.47	54.00	20.53
*7 305.60	35.83	Peak	H	36.14	-32.19	-	39.78	74.00	34.22
*7 305.60	25.41	Average	H	36.14	-32.19	0.27	29.63	54.00	24.37
9 748.02	29.46	Peak	H	37.34	-24.64	-	42.16	72.72	30.56
Above 9 800.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 455.75	56.25	Peak	H	28.13	6.77	-	91.15

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	26.05	Peak	H	28.17	6.27	-	60.49	74.00	13.51
*2 483.50	15.05	Average	H	28.17	6.27	0.27	49.76	54.00	4.24
*2 484.24	27.60	Peak	H	28.18	6.27	-	62.05	74.00	11.95
*2 484.24	15.70	Average	H	28.18	6.27	0.27	50.42	54.00	3.58

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 923.07	36.76	Peak	H	33.12	-27.39	-	42.49	74.00	31.51
*4 923.07	27.02	Average	H	33.12	-27.39	0.27	33.02	54.00	20.98
*7 391.22	35.38	Peak	H	36.01	-33.50	-	37.89	74.00	36.11
*7 391.22	24.83	Average	H	36.01	-33.50	0.27	27.61	54.00	26.39
9 848.05	27.94	Peak	H	37.57	-25.11	-	40.40	71.15	30.75
Above 9 900.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11a (6 Mbps)
Low Channel (5 745 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 750.02	54.28	Peak	H	34.08	9.59	-	97.95

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 489.94	39.98	Peak	H	38.49	-25.17	-	53.30	74.00	20.70
*11 489.94	31.45	Average	H	38.49	-25.17	0.22	44.99	54.00	9.01
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (5 785 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 780.04	53.94	Peak	H	34.15	9.61	-	97.70

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 570.28	38.67	Peak	H	38.57	-26.29	-	50.95	74.00	23.05
*11 570.28	29.88	Average	H	38.57	-26.29	0.22	42.38	54.00	11.62
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 825 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 826.26	52.51	Peak	H	34.26	9.57	-	96.34

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 649.77	36.69	Peak	H	38.46	-26.50	-	48.65	74.00	25.35
*11 649.77	27.55	Average	H	38.46	-26.50	0.22	39.73	54.00	14.27
Above 11 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11an_HT20 (MCS0)
Low Channel (5 745 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 746.32	52.89	Peak	H	34.09	9.57	-	96.55

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 489.82	38.55	Peak	H	38.49	-25.16	-	51.88	74.00	22.12
*11 489.82	31.15	Average	H	38.49	-25.16	0.27	44.75	54.00	9.25
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (5 785 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 778.78	53.02	Peak	H	34.14	9.61	-	96.77

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 569.93	37.26	Peak	H	38.57	-26.29	-	49.54	74.00	24.46
*11 569.93	29.20	Average	H	38.57	-26.29	0.27	41.75	54.00	12.25
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 825 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 832.54	52.18	Peak	H	34.25	9.56	-	95.99

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 650.03	36.65	Peak	H	38.46	-26.49	-	48.62	74.00	25.38
*11 650.03	26.96	Average	H	38.46	-26.49	0.27	39.20	54.00	14.80
Above 11 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11an_HT40 (MCS0)
Low Channel (5 755 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 748.80	48.96	Peak	H	34.08	9.58	-	92.62

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 509.83	37.69	Peak	H	38.52	-25.46	-	50.75	74.00	23.25
*11 509.83	31.06	Average	H	38.52	-25.46	0.51	44.63	54.00	9.37
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 795 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 783.80	48.71	Peak	H	34.15	9.61	-	92.47

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 590.11	36.21	Peak	H	38.58	-26.56	-	48.23	74.00	25.77
*11 590.11	28.80	Average	H	38.58	-26.56	0.51	41.33	54.00	12.67
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11ac_VHT20 (MCS0)
Low Channel (5 745 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 746.30	53.29	Peak	H	34.09	9.57	-	96.95

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 489.30	38.34	Peak	H	38.49	-25.16	-	51.67	74.00	22.33
*11 489.30	31.20	Average	H	38.49	-25.16	0.46	44.99	54.00	9.01
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (5 785 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 781.28	52.57	Peak	H	34.15	9.61	-	96.33

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 569.90	36.93	Peak	H	38.57	-26.28	-	49.22	74.00	24.78
*11 569.90	29.18	Average	H	38.57	-26.28	0.46	41.93	54.00	12.07
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 825 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 832.52	52.31	Peak	H	34.25	9.56	-	96.12

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 650.08	36.19	Peak	H	38.46	-26.49	-	48.16	74.00	25.84
*11 650.08	26.72	Average	H	38.46	-26.49	0.46	39.15	54.00	14.85
Above 11 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11ac_VHT40 (MCS0)
Low Channel (5 755 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 746.28	49.34	Peak	H	34.09	9.57	-	93.00

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 510.23	37.21	Peak	H	38.52	-25.46	-	50.27	74.00	23.73
*11 510.23	31.05	Average	H	38.52	-25.46	0.86	44.97	54.00	9.03
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 795 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 786.28	48.45	Peak	H	34.15	9.61	-	92.21

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 590.35	35.57	Peak	H	38.58	-26.57	-	47.58	74.00	26.42
*11 590.35	28.62	Average	H	38.58	-26.57	0.86	41.49	54.00	12.51
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11ac_VHT80 (MCS0)
Middle Channel (5 775 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 766.28	46.88	Peak	H	34.07	9.60	-	90.55

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 550.16	36.13	Peak	H	38.54	-26.01	-	48.66	74.00	25.34
*11 550.16	29.89	Average	H	38.54	-26.01	1.49	43.91	54.00	10.09
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

1. "*" means the restricted band.
2. Radiated emissions measured in frequency above 1 000 ㎒ were made with an instrument using Peak / average detector mode if frequency was in restricted band. Otherwise the frequency was out of restricted band, only peak detector should be used.
3. Emissions out of restricted band are limited below 20 ㏈ of fundamental level in 100 ㎑ resolution bandwidth.
4. Band edge measurement
   (Actual = Reading + Antenna Factor + CL + Duty cycle)
5. Radiated spurious emission measurement
   (Actual = Reading + Antenna Factor + Amp + CL + Duty cycle)

2.4.2.2. Battery Cover with charger

DSSS : 802.11b (1 Mbps)
Low Channel (2 412 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 411.37	64.45	Peak	H	28.09	6.29	-	98.83

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 356.24	26.50	Peak	H	28.08	6.24	-	60.82	74.00	13.18
*2 356.24	15.40	Average	H	28.08	6.24	0.04	49.76	54.00	4.24
*2 390.00	24.53	Peak	H	28.08	6.25	-	58.86	74.00	15.14
*2 390.00	14.24	Average	H	28.08	6.25	0.04	48.61	54.00	5.39

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 823.33	40.37	Peak	H	32.78	-27.90	-	45.25	74.00	28.75
*4 823.33	28.74	Average	H	32.78	-27.90	0.04	33.66	54.00	20.34
7 225.11	25.14	Peak	H	35.85	-29.64	-	31.35	78.83	47.48
9 648.23	33.14	Peak	H	37.42	-24.76	-	45.80	78.83	33.03
Above 9 700.00	Note detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 440.23	62.77	Peak	H	28.00	6.75	-	97.52

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 872.44	39.43	Peak	H	33.02	-27.49	-	44.96	74.00	29.04
*4 872.44	28.15	Average	H	33.02	-27.49	0.04	33.72	54.00	20.28
*7 323.15	36.23	Peak	H	36.24	-31.61	-	40.86	74.00	33.14
*7 323.15	25.78	Average	H	36.24	-31.61	0.04	30.45	54.00	23.55
9 748.95	29.59	Peak	H	37.34	-24.63	-	42.30	77.52	35.22
Above 9 800.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 462.14	62.15	Peak	H	28.14	6.60	-	96.89

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	25.13	Peak	H	28.17	6.27	-	59.57	74.00	14.43
*2 483.50	14.26	Average	H	28.17	6.27	0.04	48.74	54.00	5.26
*2 495.36	26.11	Peak	H	28.28	6.28	-	60.67	74.00	13.33
*2 495.36	15.51	Average	H	28.28	6.28	0.04	50.11	54.00	3.89

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 918.34	37.33	Peak	H	33.11	-27.42	-	43.02	74.00	30.98
*4 918.34	27.95	Average	H	33.11	-27.42	0.04	33.68	54.00	20.32
*7 383.33	35.11	Peak	H	36.04	-32.97	-	38.18	74.00	35.82
*7 383.33	26.43	Average	H	36.04	-32.97	0.04	29.54	54.00	24.46
9 847.20	29.37	Peak	H	37.57	-25.11	-	41.83	76.89	35.06
Above 9 900.00	Not detected	-	-	-	-	-	-	-	-

OFDM : 802.11g(6 Mbps)
Low Channel (2 412 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 412.38	59.37	Peak	H	28.09	6.31	-	93.77

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 389.60	29.30	Peak	H	28.08	6.26	-	63.64	74.00	10.36
*2 389.60	15.40	Average	H	28.08	6.26	0.22	49.96	54.00	4.04
*2 390.00	30.14	Peak	H	28.08	6.25	-	64.47	74.00	9.53
*2 390.00	15.28	Average	H	28.08	6.25	0.22	49.83	54.00	4.17

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 830.11	38.77	Peak	H	32.80	-27.94	-	43.63	74.00	30.37
*4 830.11	28.59	Average	H	32.80	-27.94	0.22	33.67	54.00	20.33
7 235.19	24.95	Peak	H	35.86	-29.30	-	31.51	73.77	42.26
9 647.45	32.14	Peak	H	37.42	-24.76	-	44.80	73.77	28.97
Above 9 700.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 445.55	58.77	Peak	H	28.06	6.84	-	93.67

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 864.25	38.34	Peak	H	33.03	-27.74	-	43.63	74.00	30.37
*4 864.25	28.43	Average	H	33.03	-27.74	0.22	33.94	54.00	20.06
*7 305.15	34.13	Peak	H	36.14	-32.20	-	38.07	74.00	35.93
*7 305.15	25.48	Average	H	36.14	-32.20	0.22	29.64	54.00	24.36
9 747.22	29.33	Peak	H	37.33	-24.65	-	42.01	73.67	31.66
Above 9 800.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 455.00	57.14	Peak	H	28.13	6.79	-	92.06

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	27.78	Peak	H	28.17	6.27	-	62.22	74.00	11.78
*2 483.50	14.71	Average	H	28.17	6.27	0.22	49.37	54.00	4.63
*2 484.47	27.64	Peak	H	28.18	6.27	-	62.09	74.00	11.91
*2 484.47	15.43	Average	H	28.18	6.27	0.22	50.10	54.00	3.90

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 922.34	37.25	Peak	H	33.11	-27.39	-	42.97	74.00	31.03
*4 922.34	26.95	Average	H	33.11	-27.39	0.22	32.89	54.00	21.11
*7 378.95	35.10	Peak	H	36.06	-32.68	-	38.48	74.00	35.52
*7 378.95	24.78	Average	H	36.06	-32.68	0.22	28.38	54.00	25.62
9 647.55	29.59	Peak	H	37.42	-24.76	-	42.25	72.06	29.81
Above 9 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM : 802.11n_HT20(MCS0)
Low Channel (2 412 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 413.78	57.15	Peak	H	28.09	6.33	-	91.57

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 389.84	31.25	Peak	H	28.08	6.25	-	65.58	74.00	8.42
*2 389.84	15.74	Average	H	28.08	6.25	0.27	50.34	54.00	3.66
*2 390.00	30.23	Peak	H	28.08	6.25	-	64.56	74.00	9.44
*2 390.00	14.86	Average	H	28.08	6.25	0.27	49.46	54.00	4.54

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 818.33	37.11	Peak	H	32.75	-27.97	-	41.89	74.00	32.11
*4 818.33	27.13	Average	H	32.75	-27.97	0.27	32.18	54.00	21.82
7 236.37	25.77	Peak	H	35.87	-29.26	-	32.38	71.57	39.19
9 648.23	33.15	Peak	H	37.42	-24.76	-	45.81	71.57	25.76
Above 9 700.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 442.38	57.43	Peak	H	28.02	6.79	-	92.24

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 872.39	36.59	Peak	H	33.02	-27.49	-	42.12	74.00	31.88
*4 872.39	27.25	Average	H	33.02	-27.49	0.27	33.05	54.00	20.95
*7 305.14	35.14	Peak	H	36.14	-32.20	-	39.08	74.00	34.92
*7 305.14	25.00	Average	H	36.14	-32.20	0.27	29.21	54.00	24.79
9 748.37	29.10	Peak	H	37.34	-24.64	-	41.80	72.24	30.44
Above 9 800.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
2 457.38	55.59	Peak	H	28.14	6.73	-	90.46

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	25.78	Peak	H	28.17	6.27	-	60.22	74.00	13.78
*2 483.50	14.97	Average	H	28.17	6.27	0.27	49.68	54.00	4.32
*2 484.42	27.37	Peak	H	28.18	6.27	-	61.82	74.00	12.18
*2 484.42	15.65	Average	H	28.18	6.27	0.27	50.37	54.00	3.63

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 924.05	36.43	Peak	H	33.12	-27.39	-	42.16	74.00	31.84
*4 924.05	28.00	Average	H	33.12	-27.39	0.27	34.00	54.00	20.00
*7 392.74	35.10	Peak	H	36.02	-33.60	-	37.52	74.00	36.48
*7 392.74	24.15	Average	H	36.02	-33.60	0.27	26.84	54.00	27.16
9 847.53	27.48	Peak	H	37.57	-25.11	-	39.94	70.46	30.52
Above 9 900.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11a (6 Mbps)
Low Channel (5 745 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 750.23	54.11	Peak	H	34.08	9.59	-	97.78

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 490.23	39.74	Peak	H	38.49	-25.17	-	53.06	74.00	20.94
*11 490.23	31.23	Average	H	38.49	-25.17	0.22	44.77	54.00	9.23
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (5 785 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 779.38	53.84	Peak	H	34.15	9.61	-	97.60

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 571.15	38.77	Peak	H	38.57	-26.30	-	51.04	74.00	22.96
*11 571.15	29.93	Average	H	38.57	-26.30	0.22	42.42	54.00	11.58
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 825 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 825.95	52.13	Peak	H	34.26	9.57	-	95.96

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 649.80	36.74	Peak	H	38.46	-26.50	-	48.70	74.00	25.30
*11 649.80	27.40	Average	H	38.46	-26.50	0.22	39.58	54.00	14.42
Above 11 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11an_HT20 (MCS0)
Low Channel (5 745 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 747.77	52.77	Peak	H	34.08	9.58	-	96.43

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 489.10	38.23	Peak	H	38.49	-25.15	-	51.57	74.00	22.43
*11 489.10	31.10	Average	H	38.49	-25.15	0.27	44.71	54.00	9.29
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (5 785 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 775.38	53.33	Peak	H	34.13	9.61	-	97.07

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 570.03	37.13	Peak	H	38.57	-26.29	-	49.41	74.00	24.59
*11 570.03	29.38	Average	H	38.57	-26.29	0.27	41.93	54.00	12.07
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 825 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 827.43	52.33	Peak	H	34.26	9.57	-	96.16

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 651.12	36.43	Peak	H	38.47	-26.49	-	48.41	74.00	25.59
*11 651.12	26.74	Average	H	38.47	-26.49	0.27	38.99	54.00	15.01
Above 11 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11an_HT40 (MCS0)
Low Channel (5 755 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 745.78	48.77	Peak	H	34.09	9.57	-	92.43

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 508.74	37.77	Peak	H	38.52	-25.44	-	50.85	74.00	23.15
*11 508.74	31.23	Average	H	38.52	-25.44	0.51	44.82	54.00	9.18
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 795 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 784.24	48.55	Peak	H	34.15	9.61	-	92.31

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 590.37	36.37	Peak	H	38.58	-26.57	-	48.38	74.00	25.62
*11 590.37	28.77	Average	H	38.58	-26.57	0.51	41.29	54.00	12.71
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11ac_VHT20 (MCS0)

Low Channel (5 745 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 745.22	53.01	Peak	H	34.09	9.56	-	96.66

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 489.25	38.25	Peak	H	38.49	-25.15	-	51.59	74.00	22.41
*11 489.25	31.10	Average	H	38.49	-25.15	0.46	44.90	54.00	9.10
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (5 785 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 783.33	52.22	Peak	H	34.15	9.61	-	95.98

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 570.38	37.59	Peak	H	38.57	-26.29	-	49.87	74.00	24.13
*11 570.38	29.59	Average	H	38.57	-26.29	0.46	42.33	54.00	11.67
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 825 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 832.34	52.44	Peak	H	34.25	9.56	-	96.25

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 651.23	37.00	Peak	H	38.47	-26.49	-	48.98	74.00	25.02
*11 651.23	26.48	Average	H	38.47	-26.49	0.46	38.92	54.00	15.08
Above 11 700.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11ac_VHT40 (MCS0)
Low Channel (5 755 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 744.36	49.55	Peak	H	34.09	9.56	-	93.20

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 511.11	37.59	Peak	H	38.52	-25.47	-	50.64	74.00	23.36
*11 511.11	31.23	Average	H	38.52	-25.47	0.86	45.14	54.00	8.86
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

High Channel (5 795 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 783.23	48.33	Peak	H	34.15	9.61	-	92.09

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 591.24	35.55	Peak	H	38.58	-26.58	-	47.55	74.00	26.45
*11 591.24	28.21	Average	H	38.58	-26.58	0.86	41.07	54.00	12.93
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11ac_VHT80 (MCS0)
Middle Channel (5 775 ㎒)

Fundamental Level			Ant.	Correction Factors			Total
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)
5 770.38	46.56	Peak	H	34.10	9.60	-	90.26

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 550.23	36.37	Peak	H	38.54	-26.01	-	48.90	74.00	25.10
*11 550.23	29.48	Average	H	38.54	-26.01	1.49	43.50	54.00	10.50
Above 11 600.00	Not detected	-	-	-	-	-	-	-	-

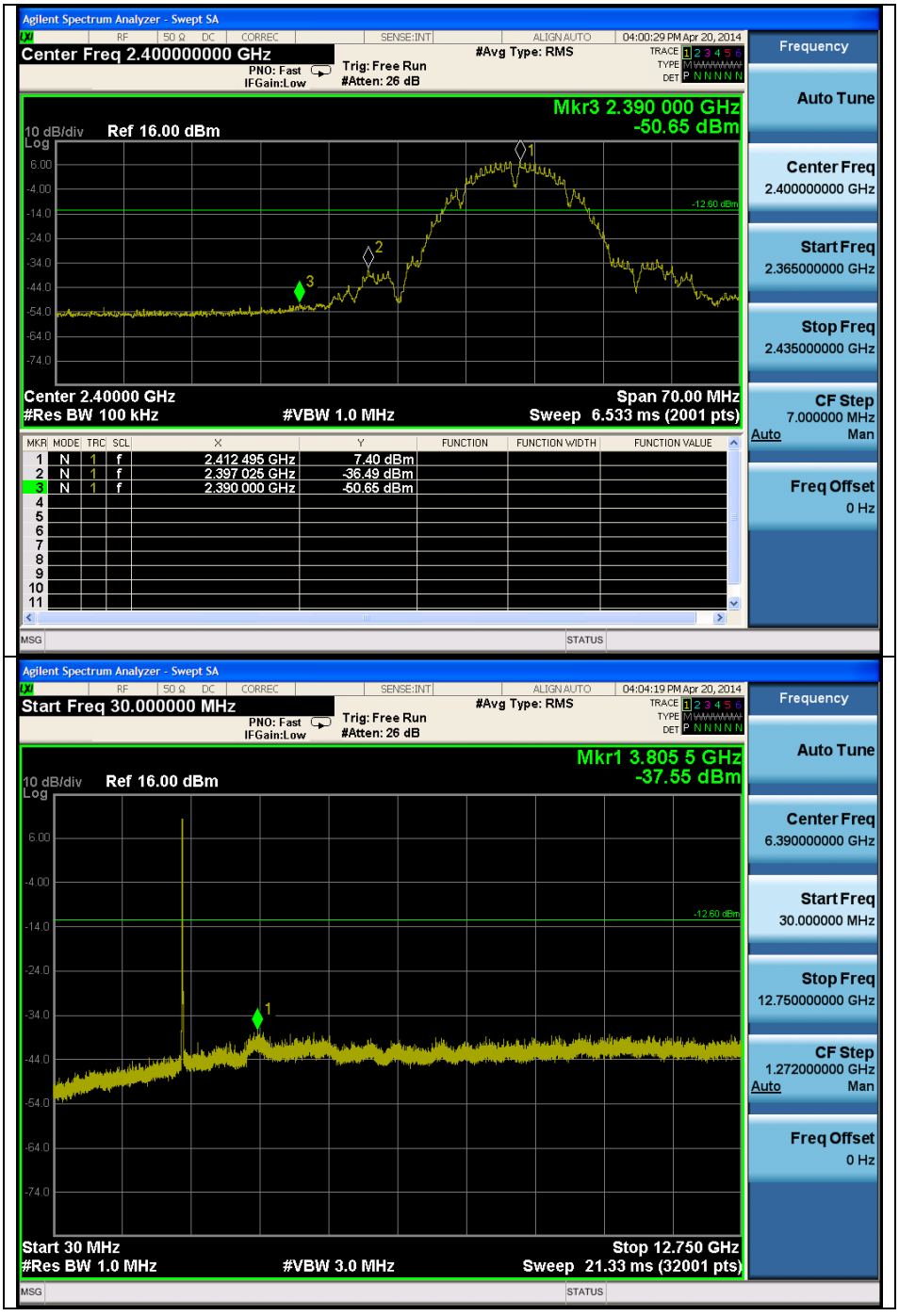
Remark;

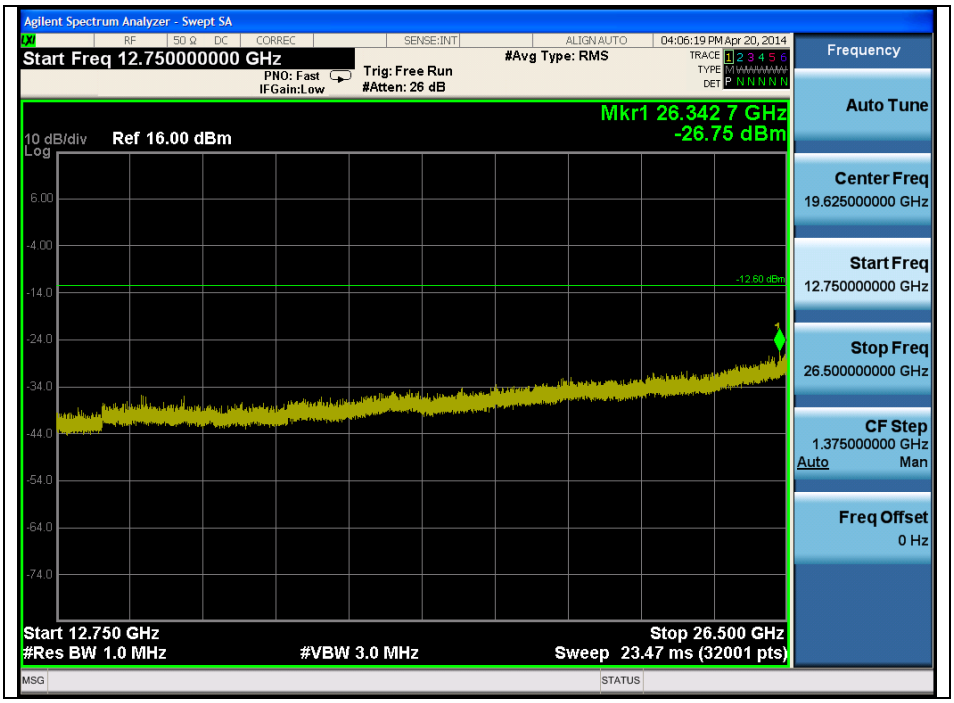
1. "*" means the restricted band.
2. Radiated emissions measured in frequency above 1 000 ㎒ were made with an instrument using Peak / average detector mode if frequency was in restricted band. Otherwise the frequency was out of restricted band, only peak detector should be used.
3. Emissions out of restricted band are limited below 20 ㏈ of fundamental level in 100 ㎑ resolution bandwidth.
4. Band edge measurement
   (Actual = Reading + Antenna Factor + CL + Duty cycle)
5. Radiated spurious emission measurement
   (Actual = Reading + Antenna Factor + Amp + CL + Duty cycle)
6. Measurement with wireless charger was performed during actual charging condition.

2.4.3. Spurious RF Conducted Emissions: Plot of Spurious RF Conducted Emission

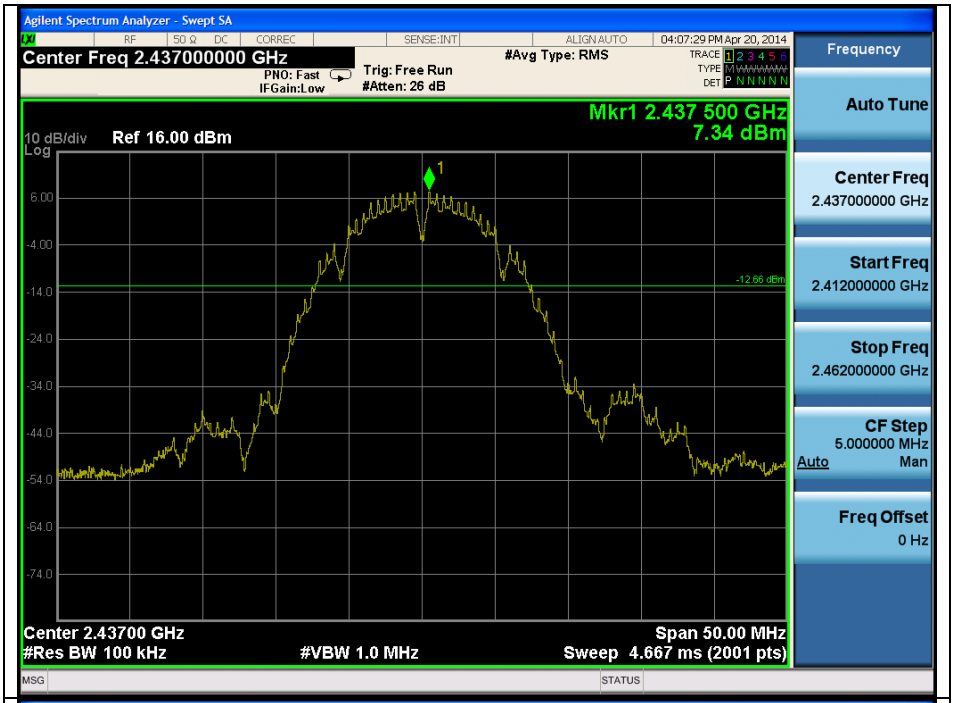
DSSS : 802.11b(1 Mbps)

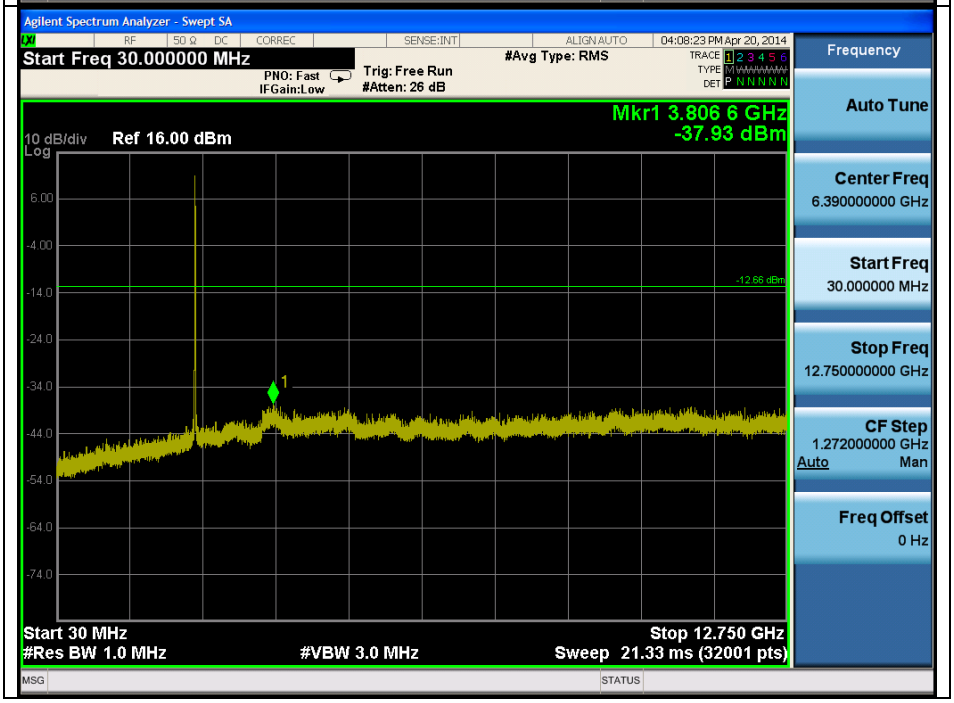
Low Channel

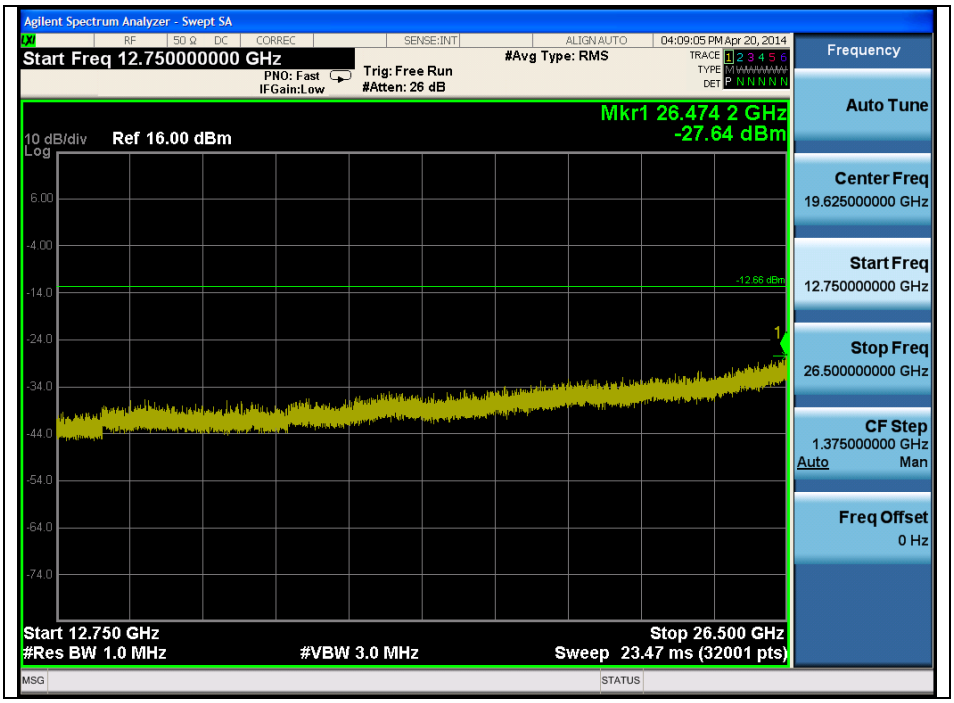




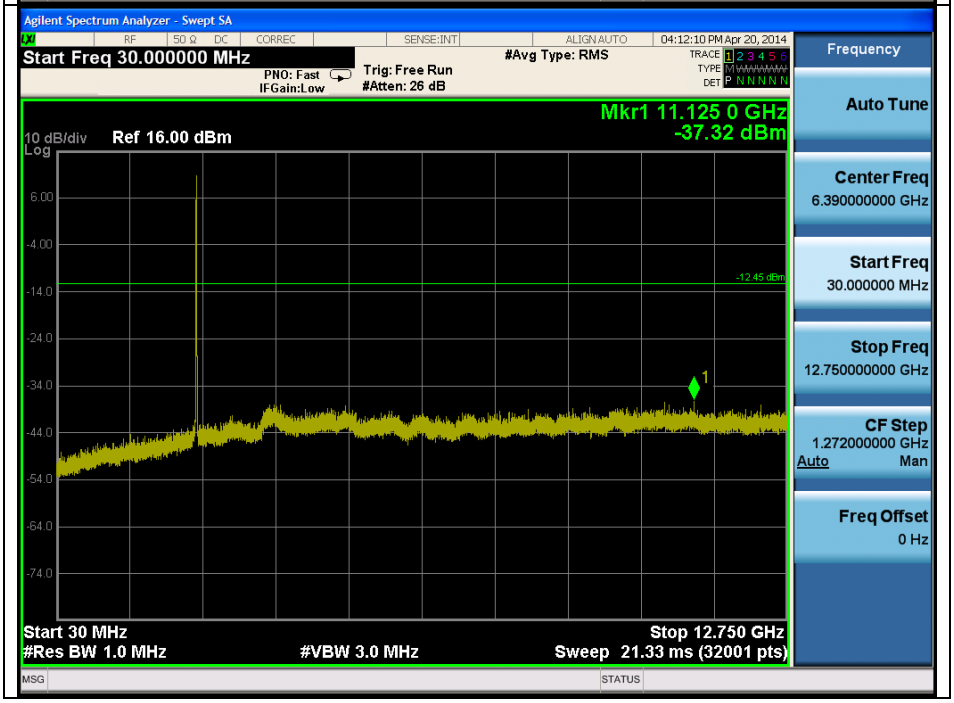
Middle Channel

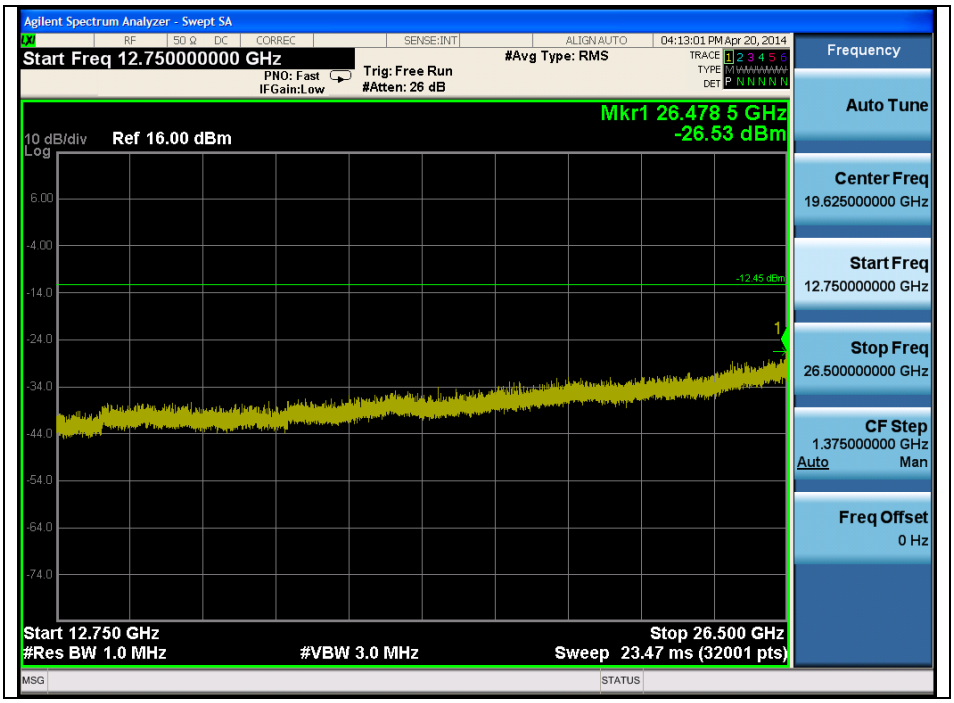






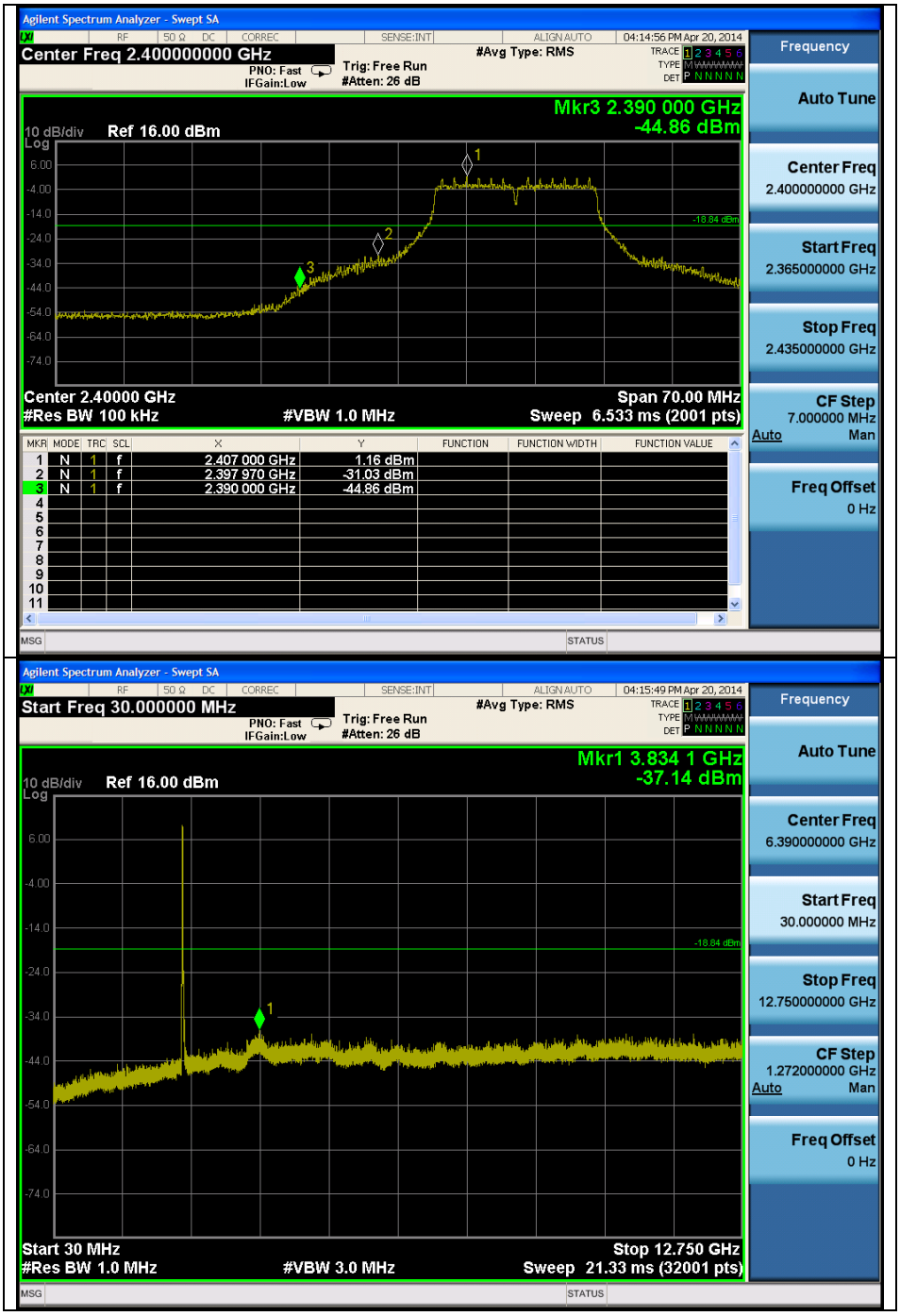
High Channel

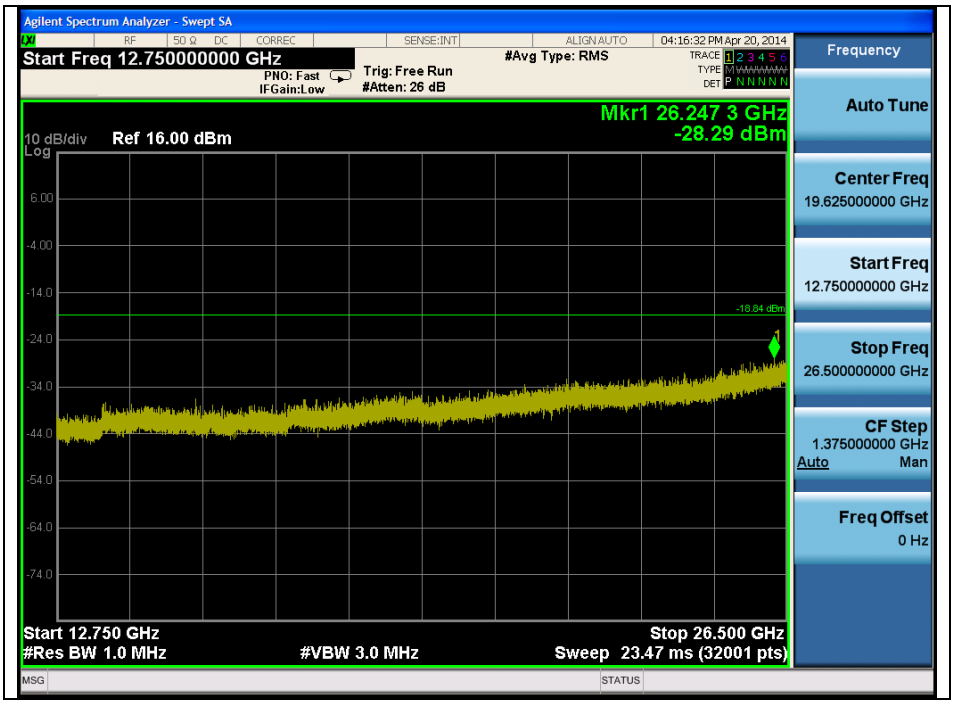




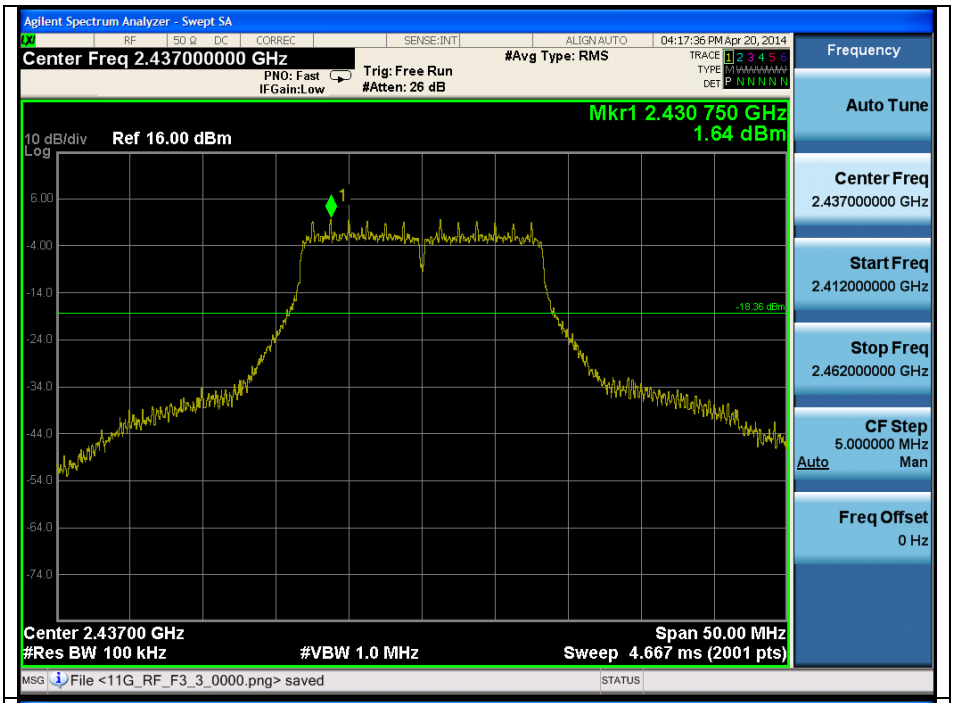
OFDM : 802.11g(6 Mbps)

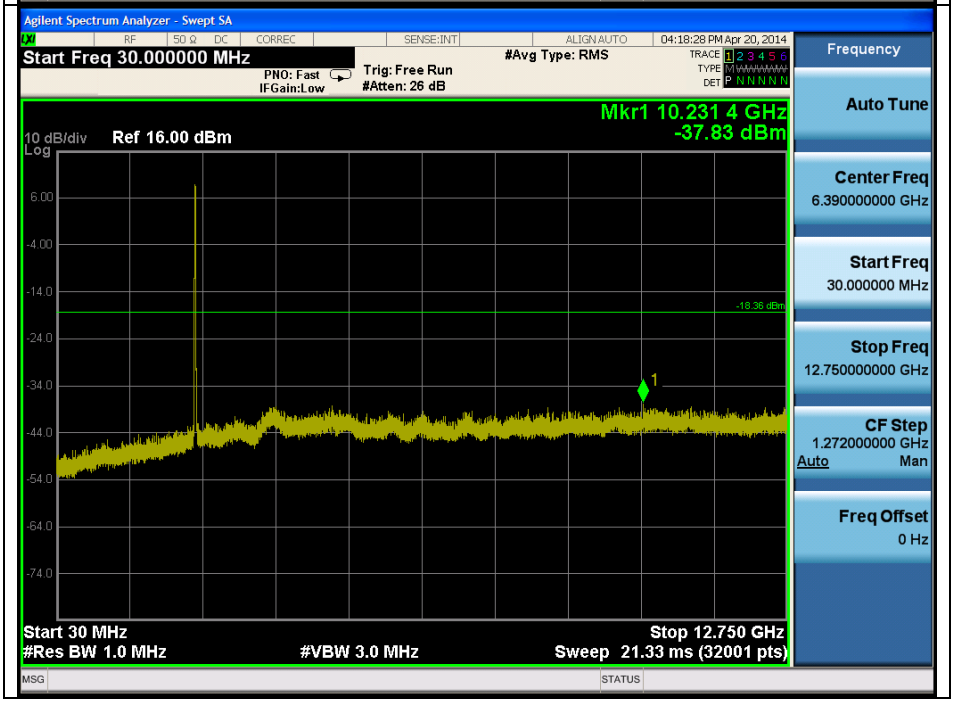
Low Channel

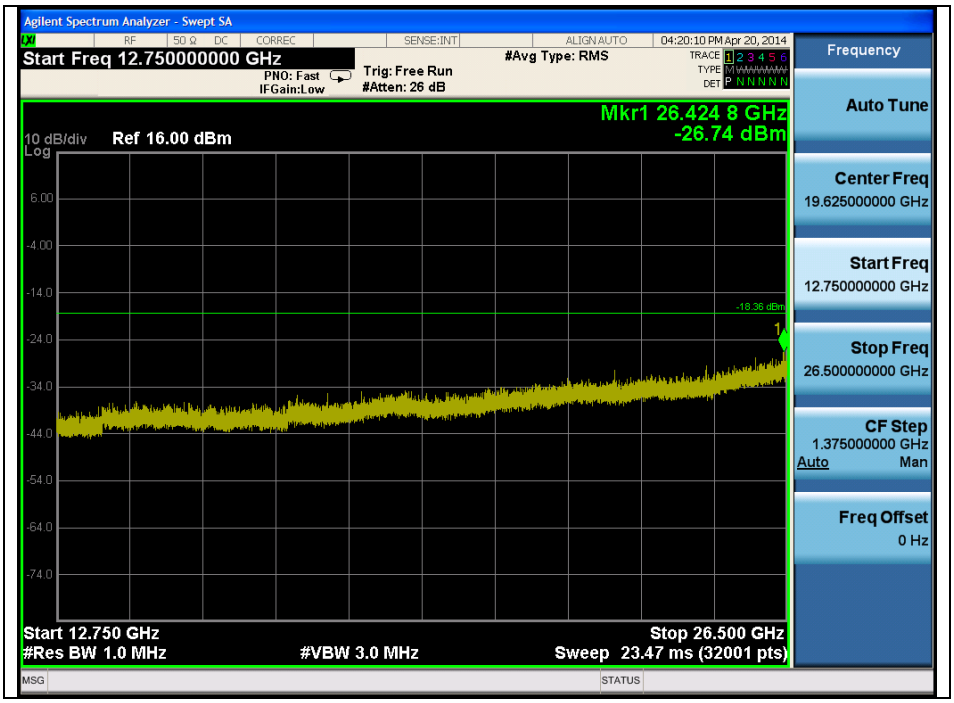




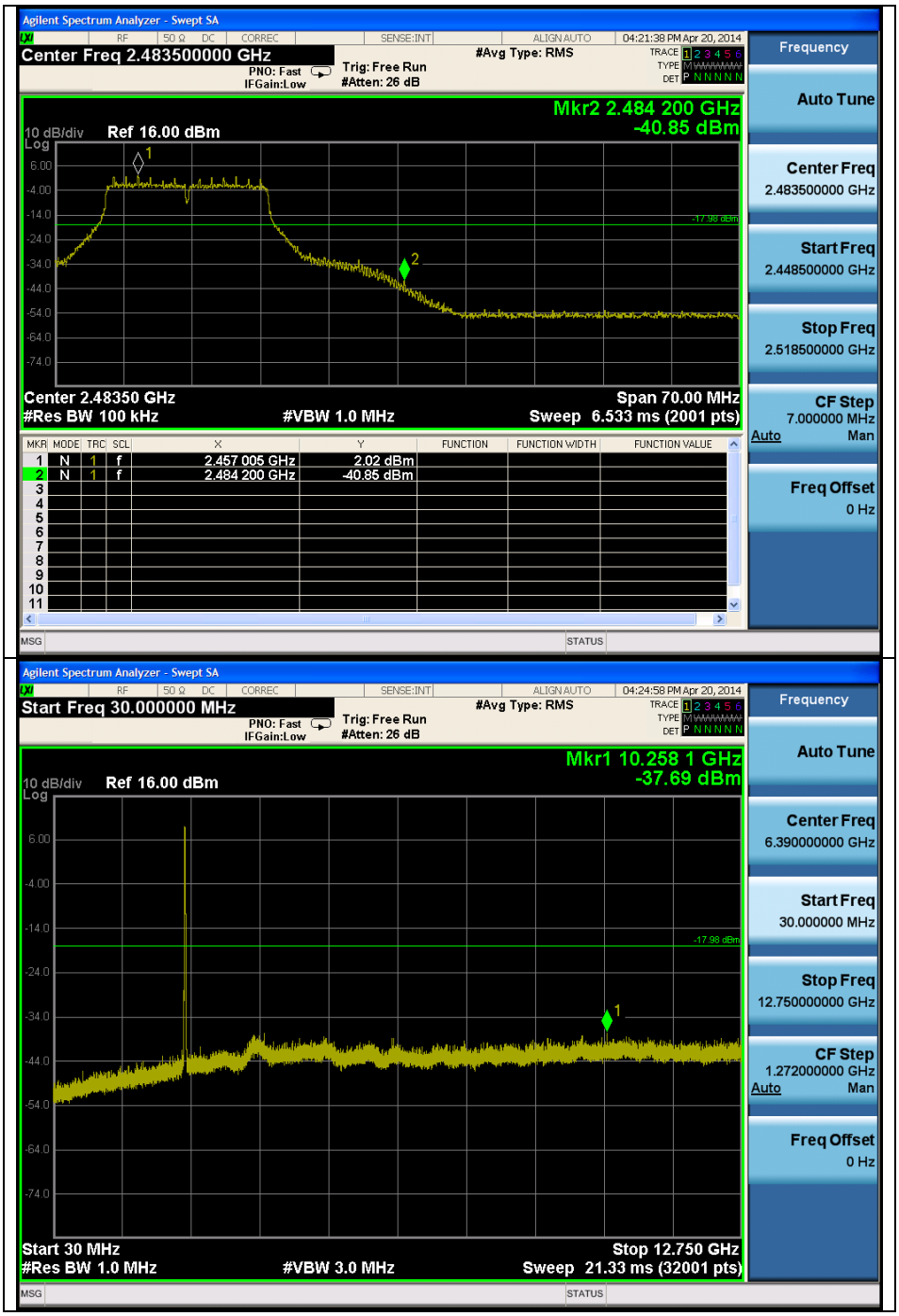
Middle Channel

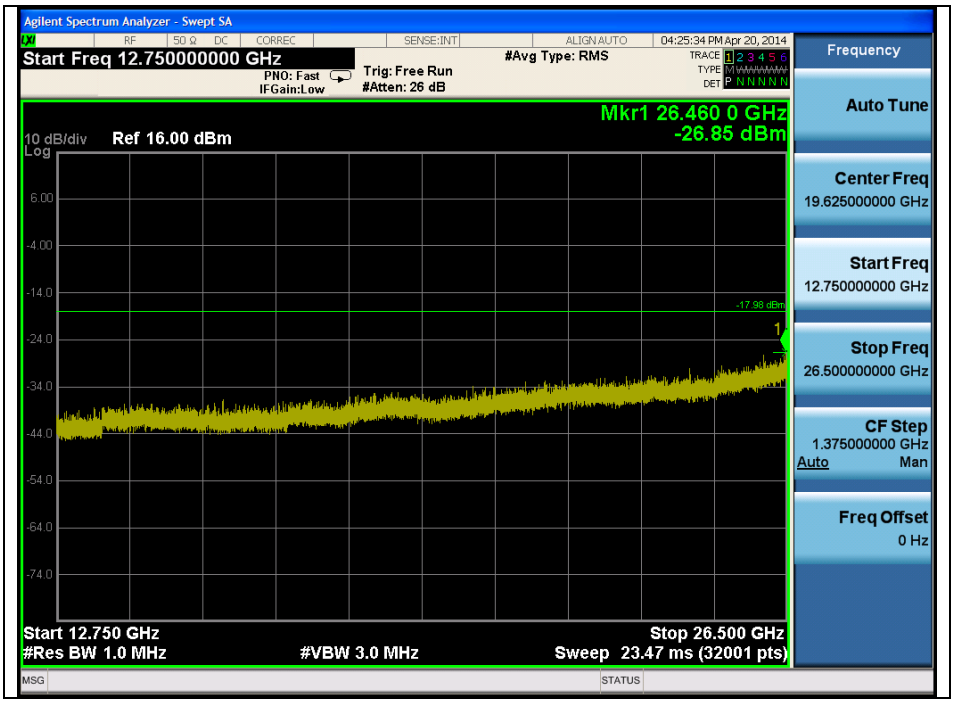






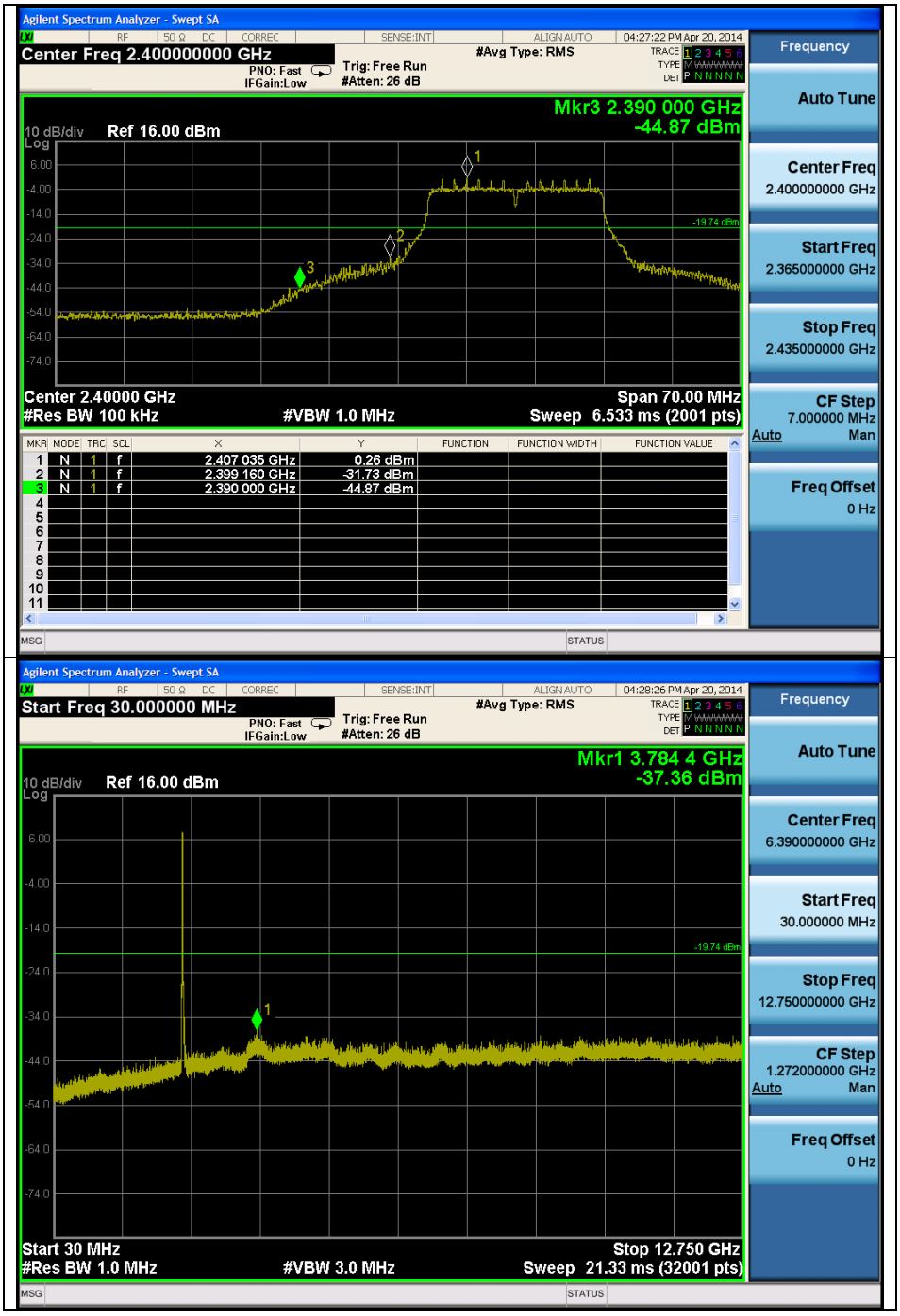
High Channel

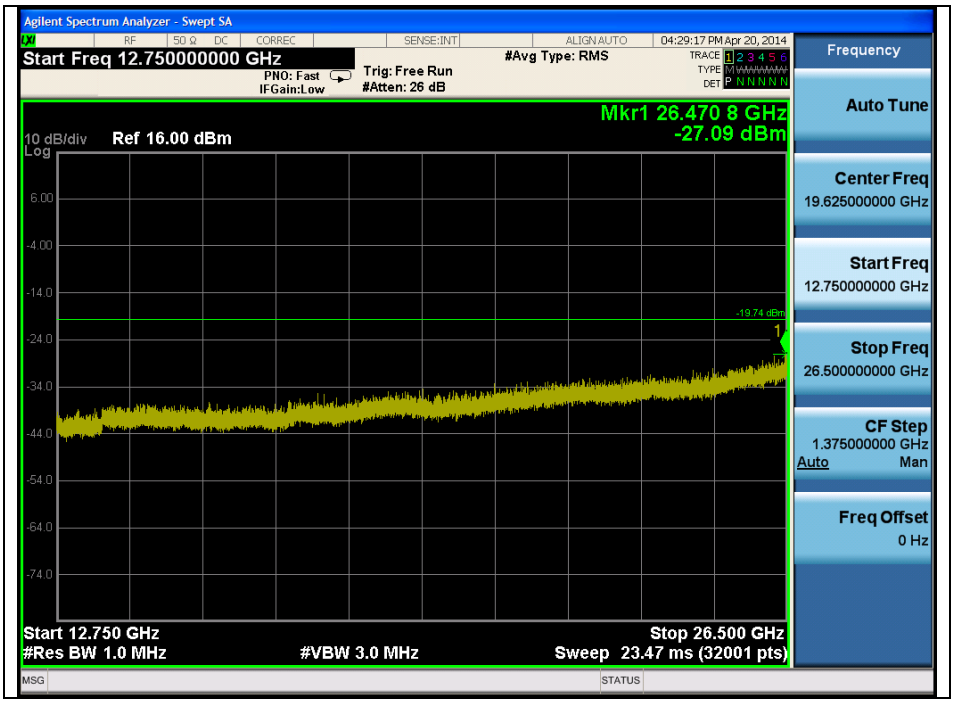




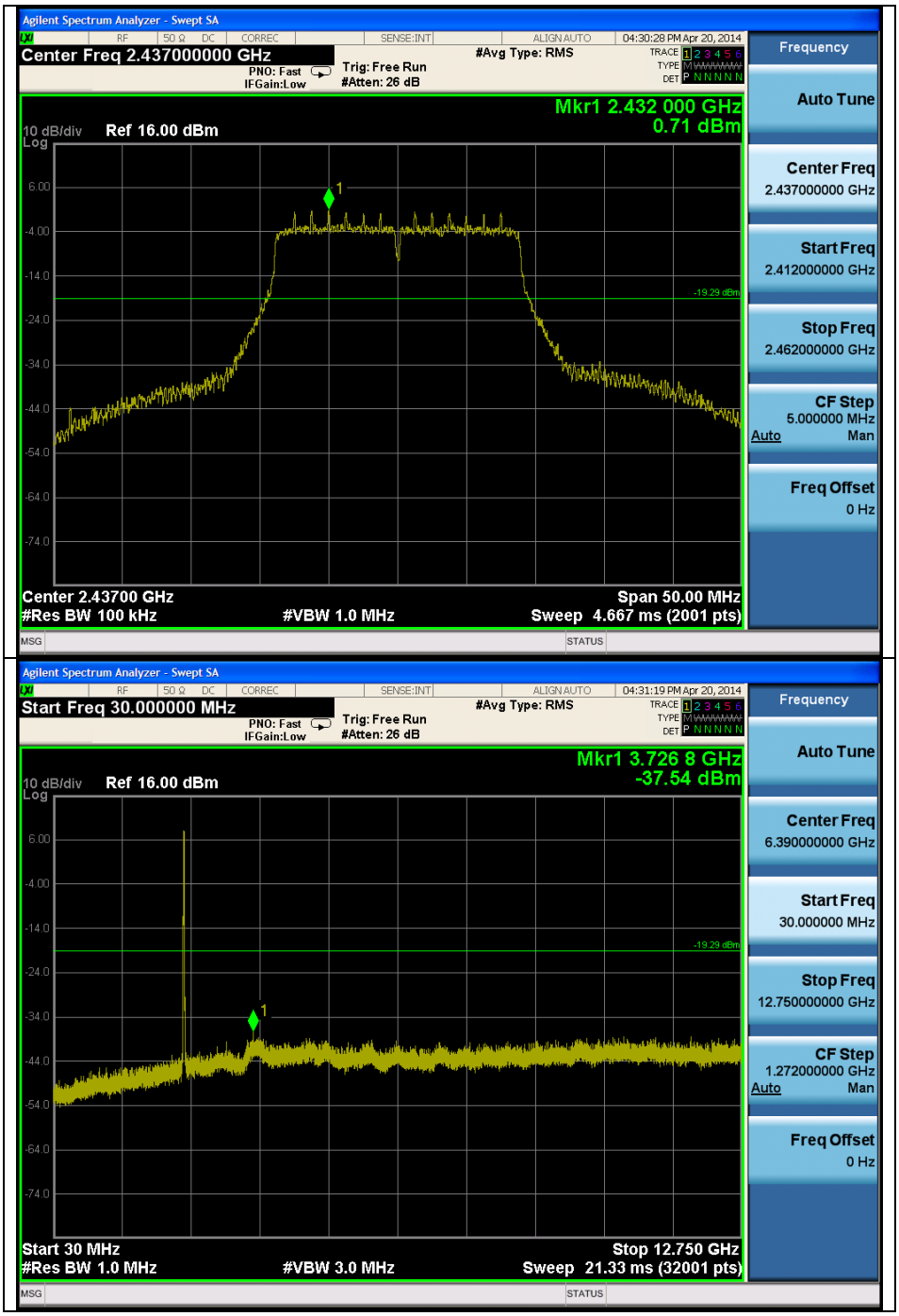
OFDM : 802.11n_HT20(MCS0)

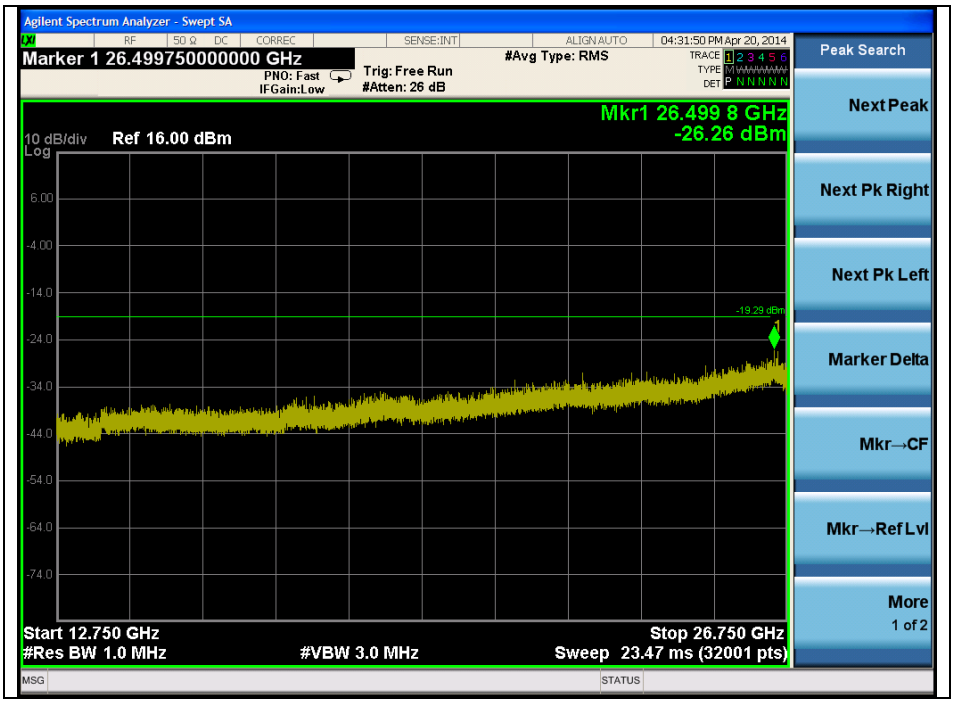
Low Channel



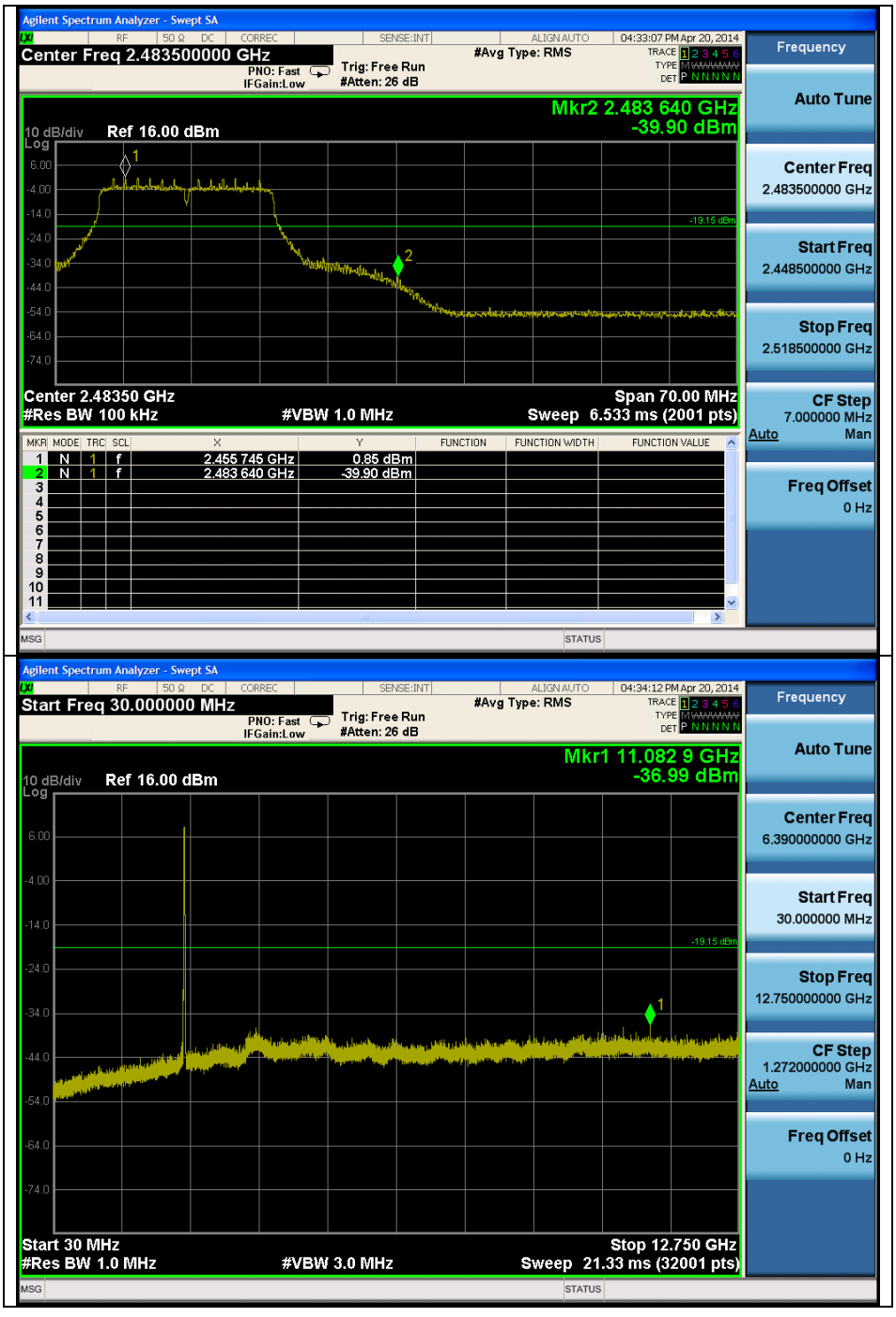


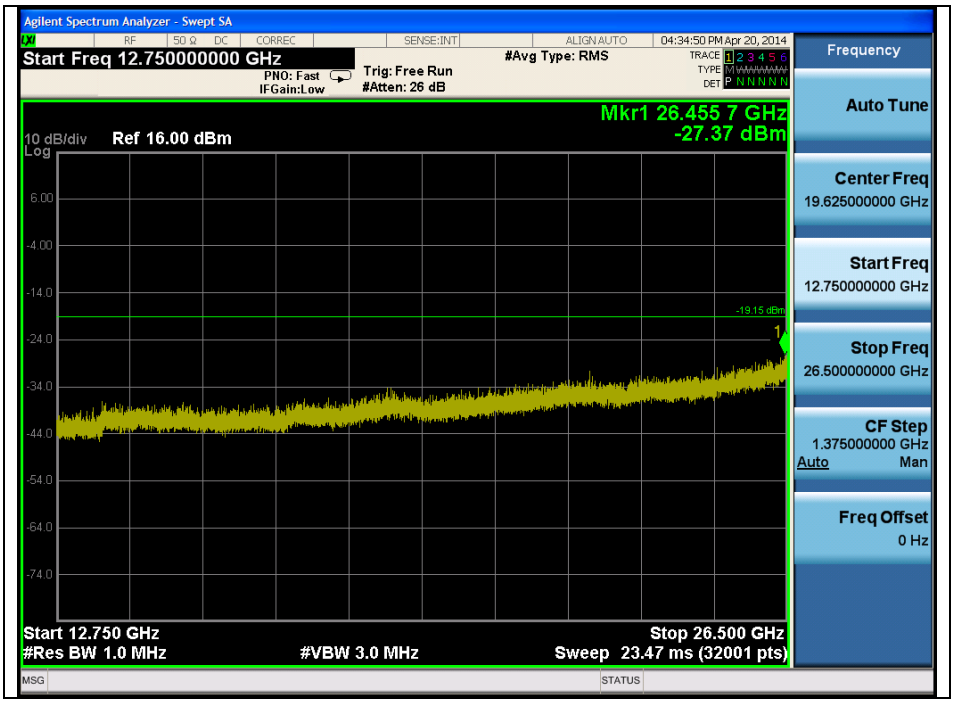
Middle Channel





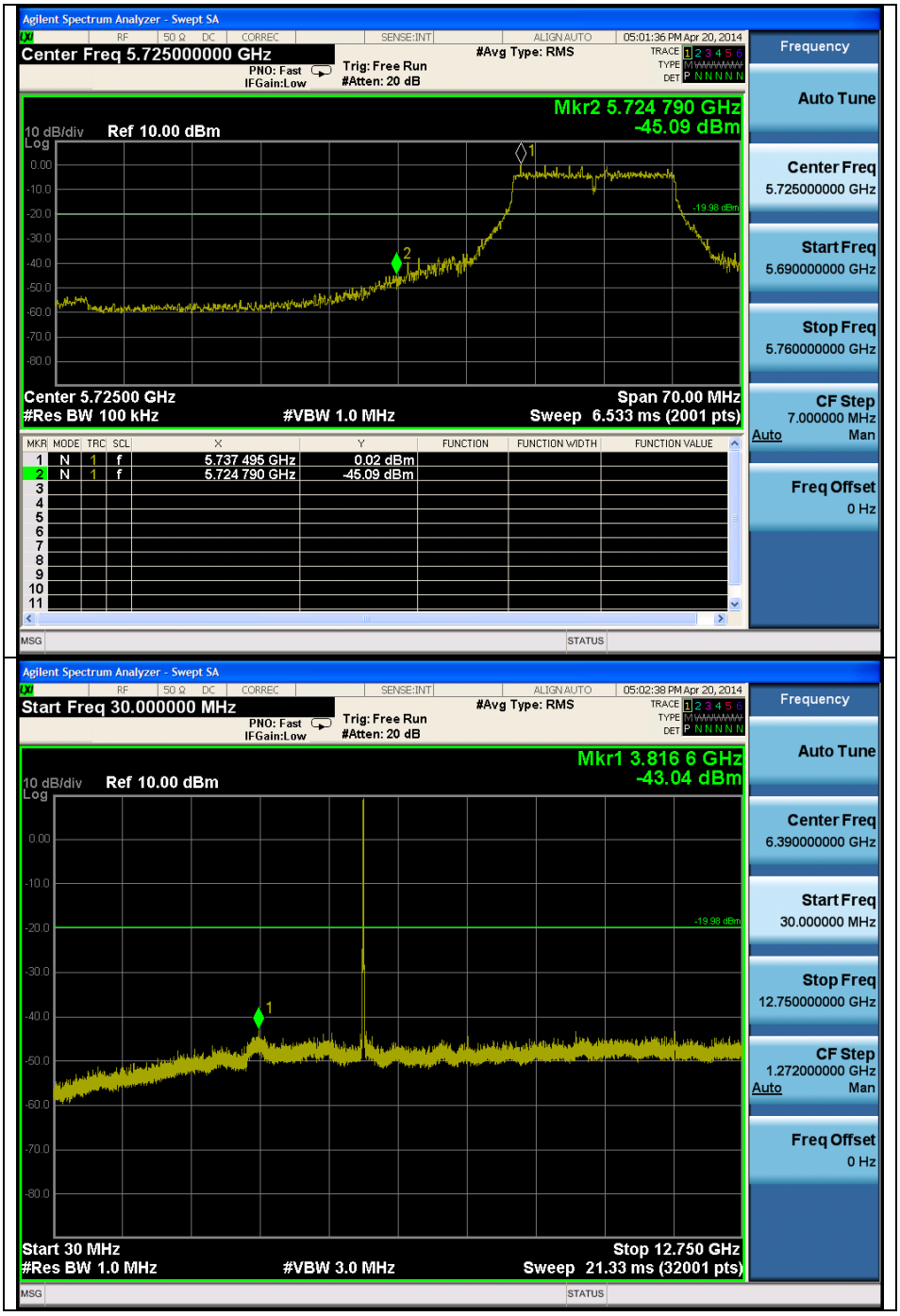
High Channel

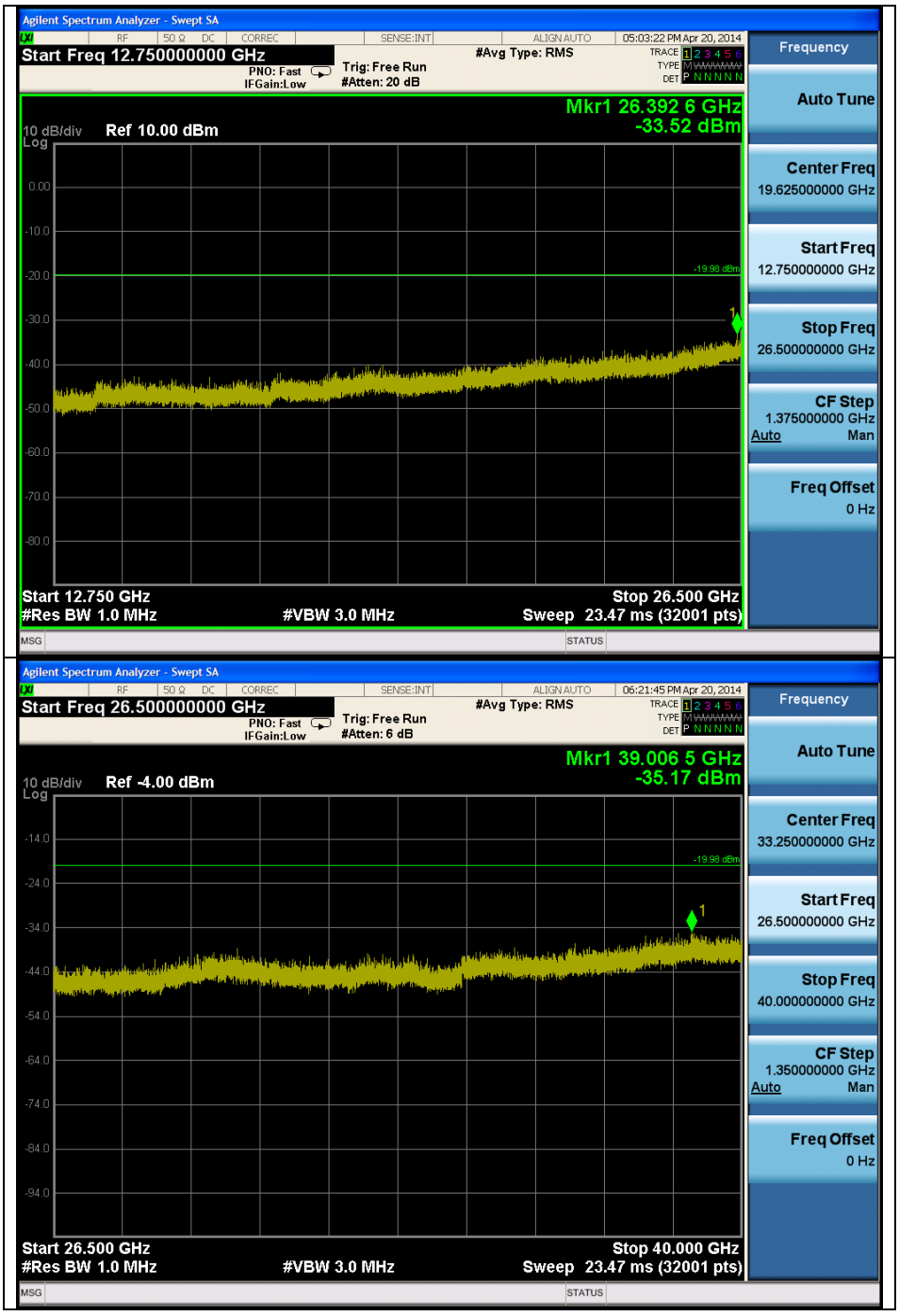




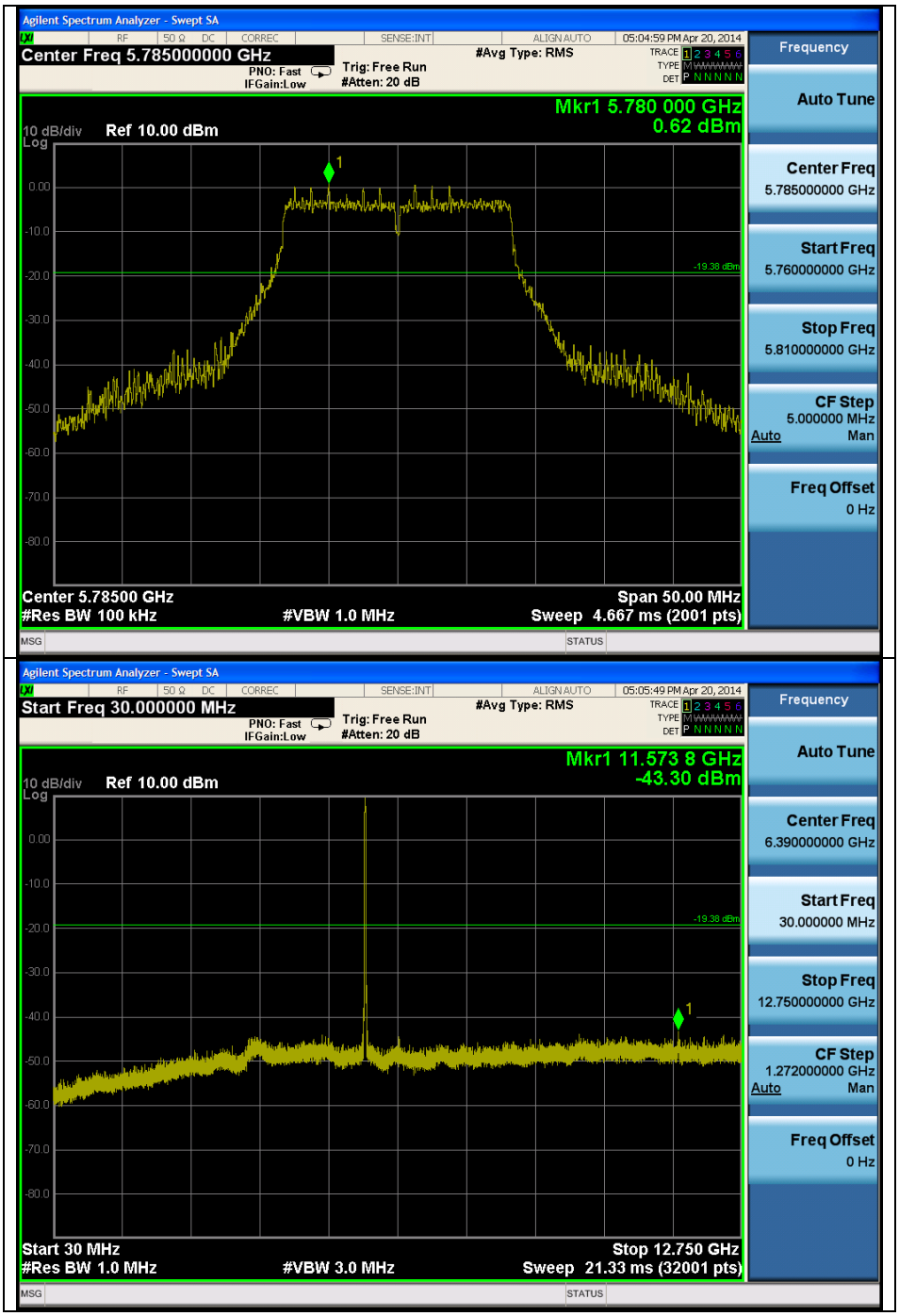
OFDM : 802.11a (6 Mbps)

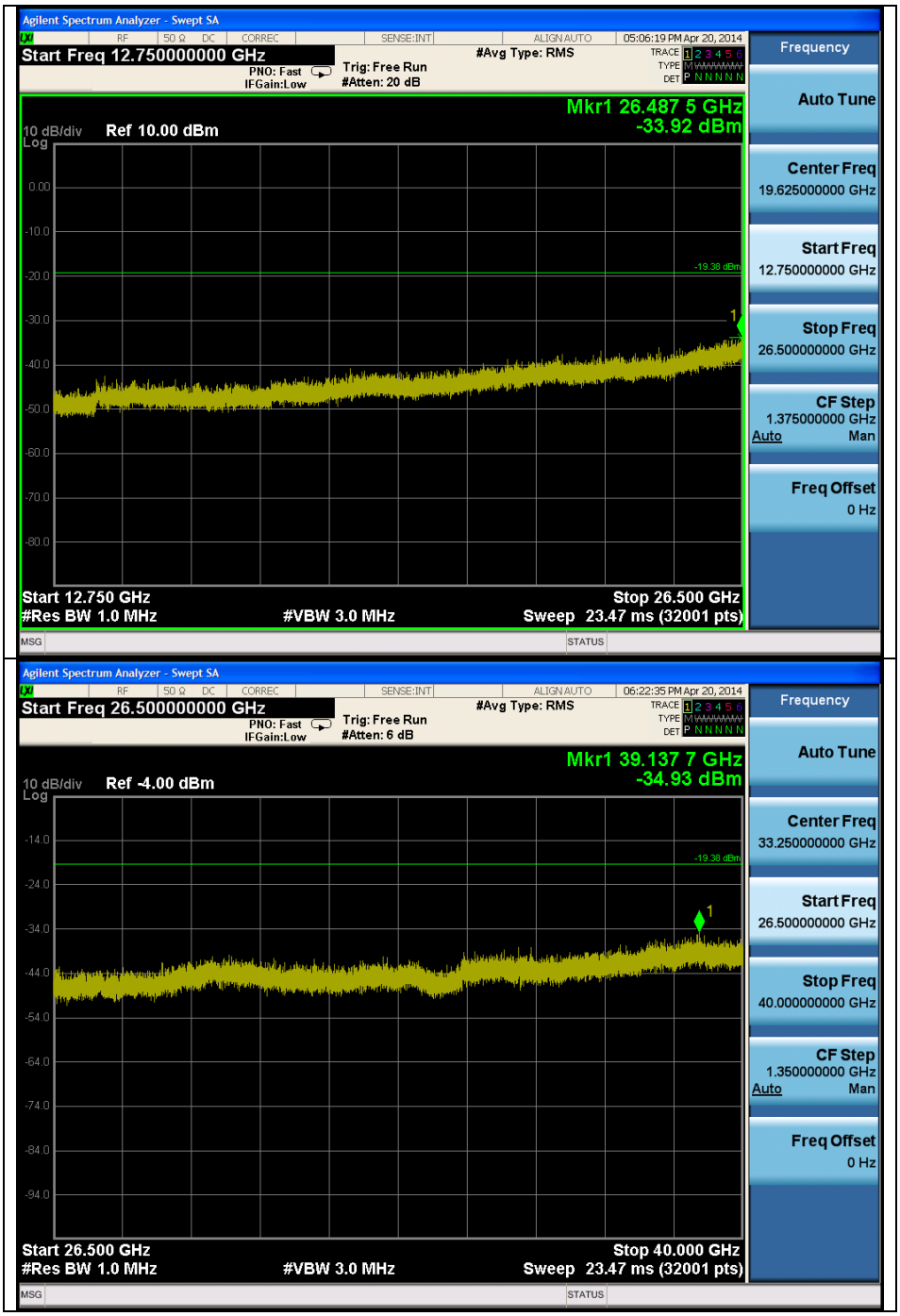
Low Channel



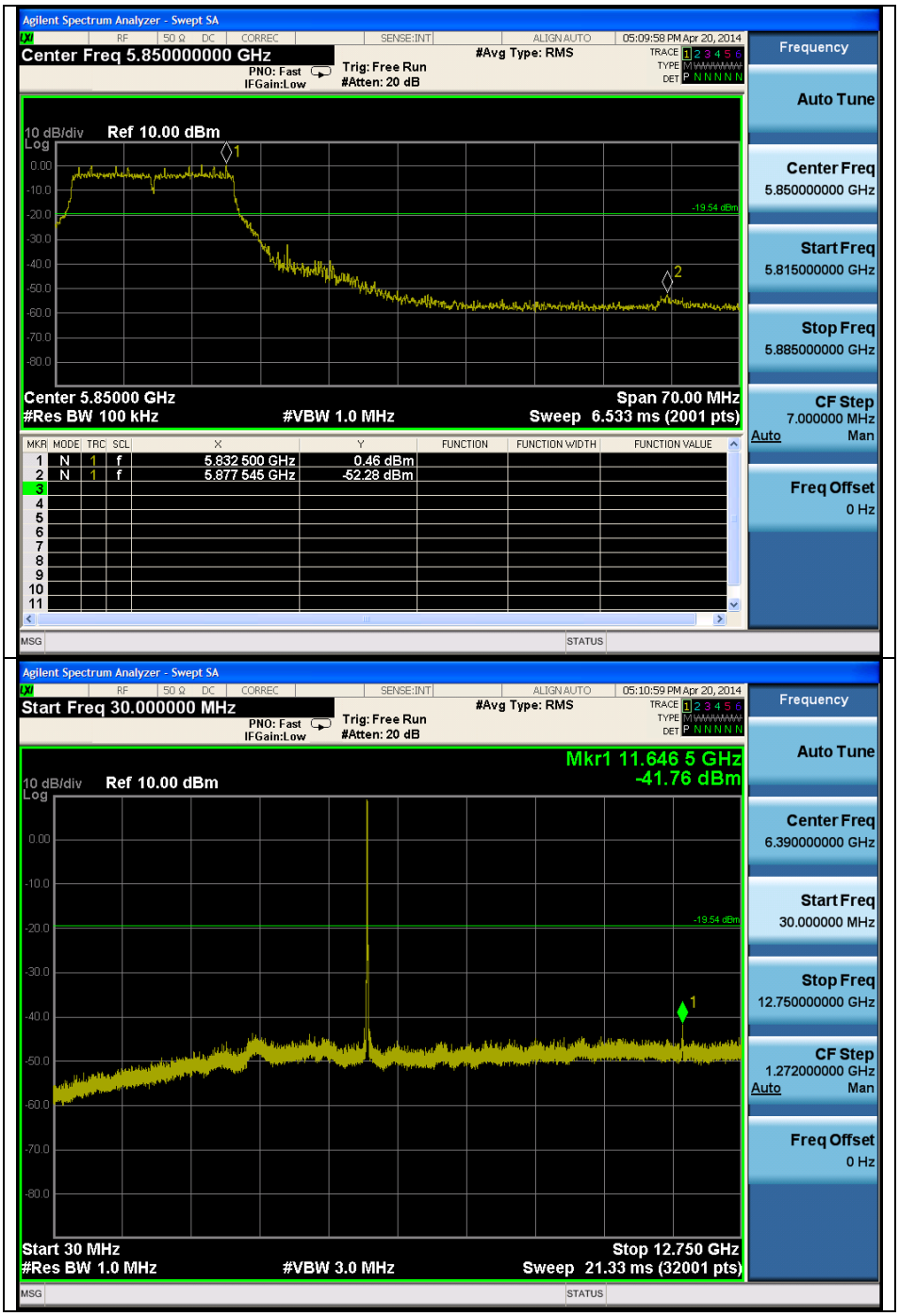


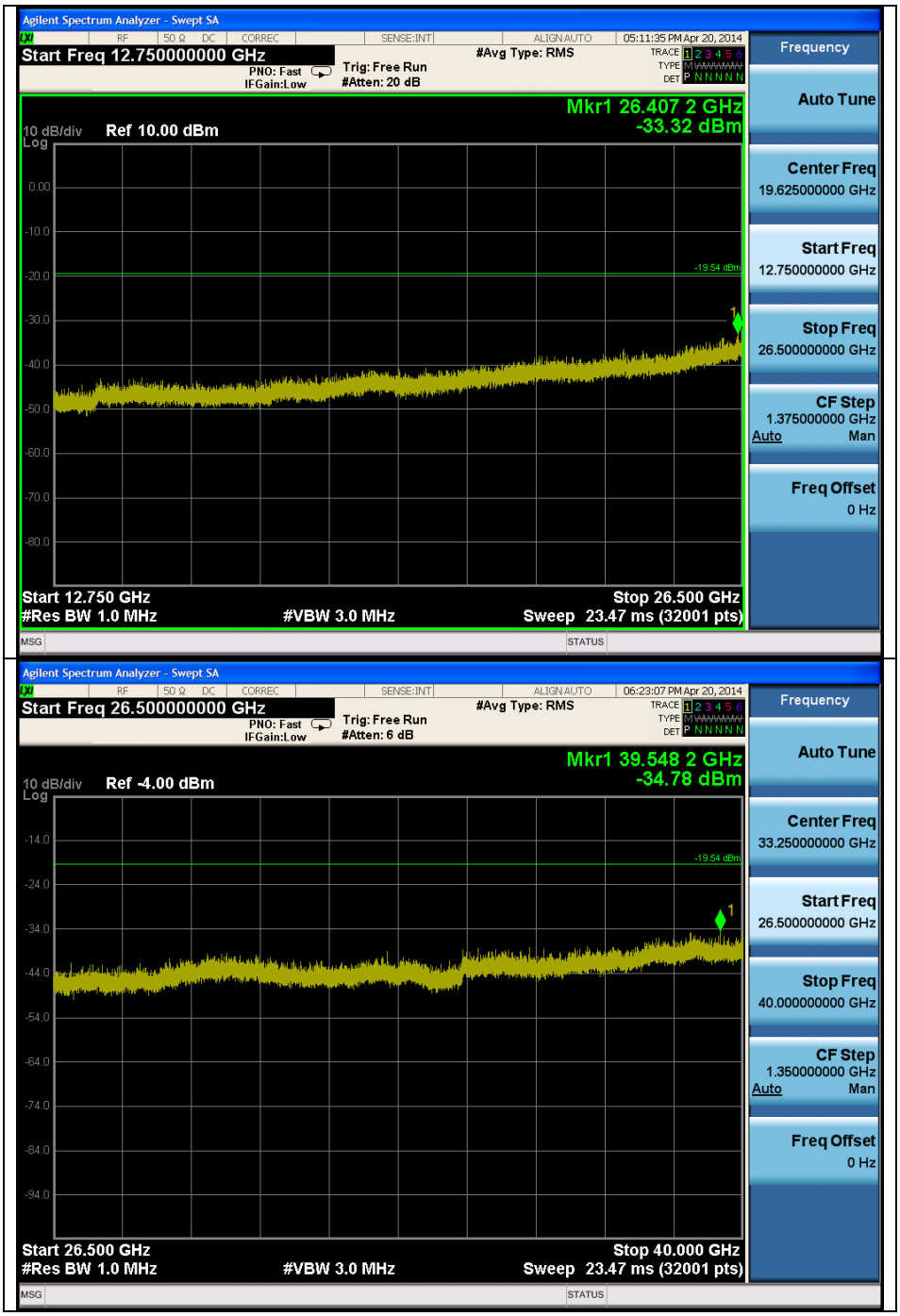
Middle Channel





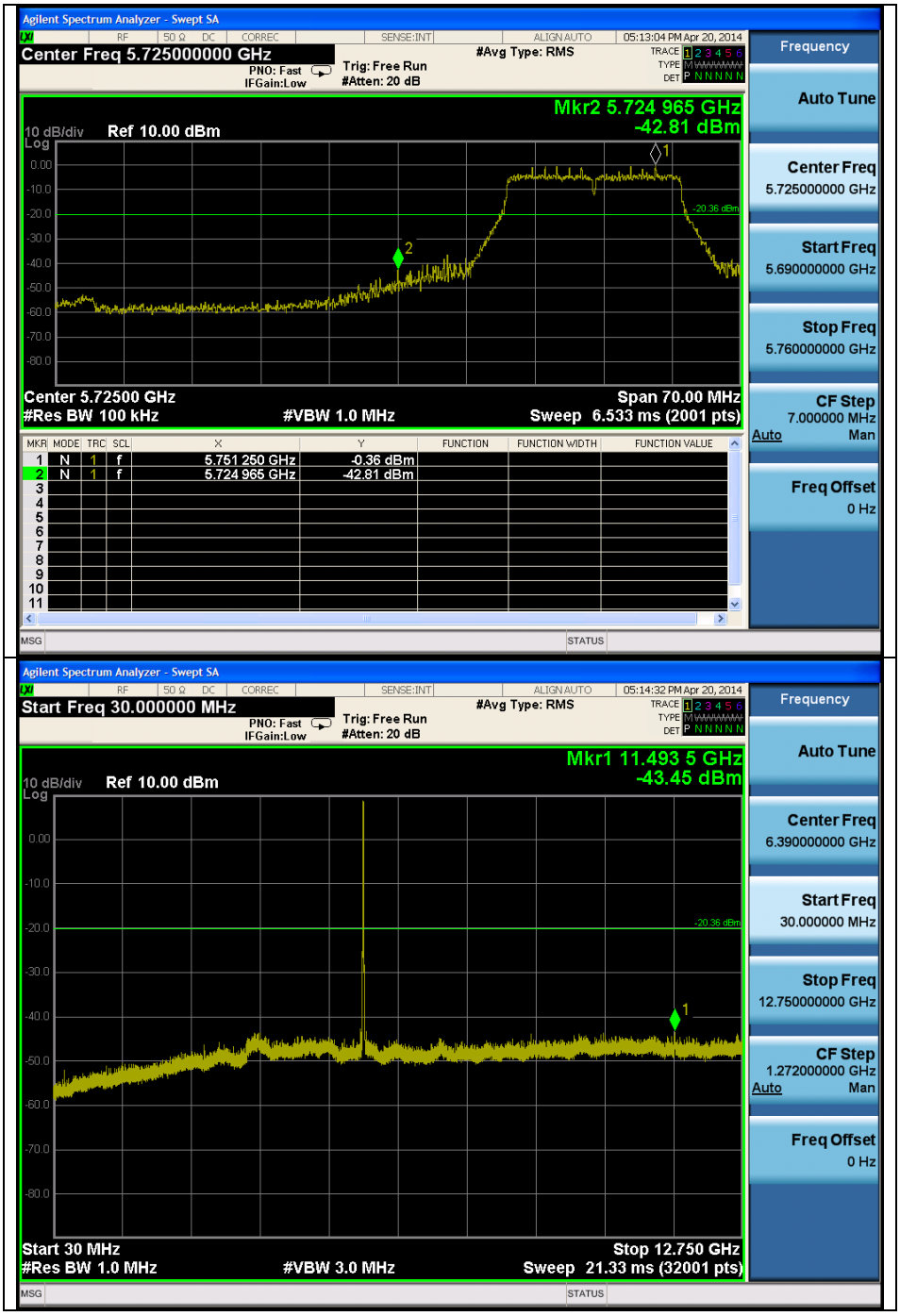
High Channel

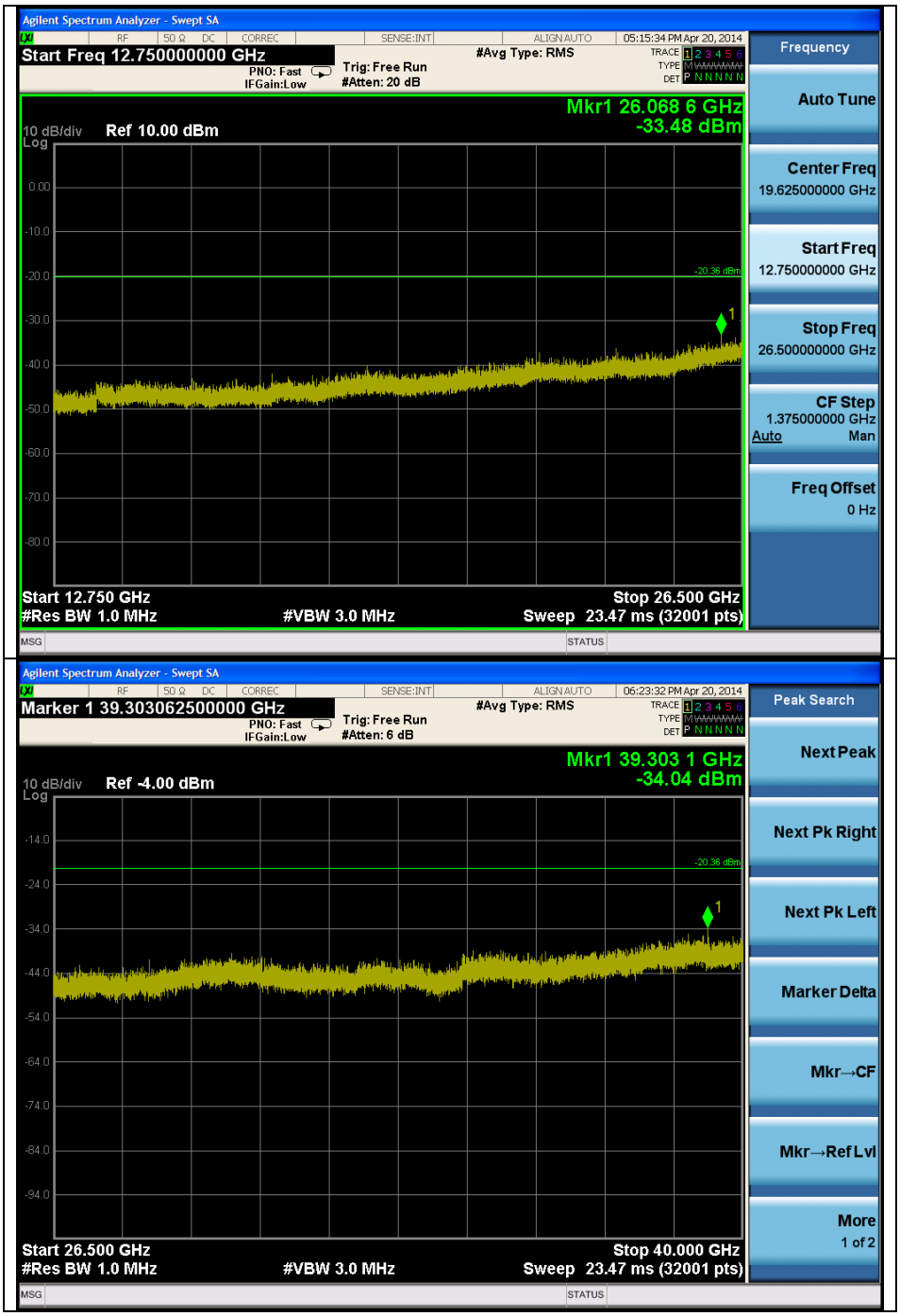




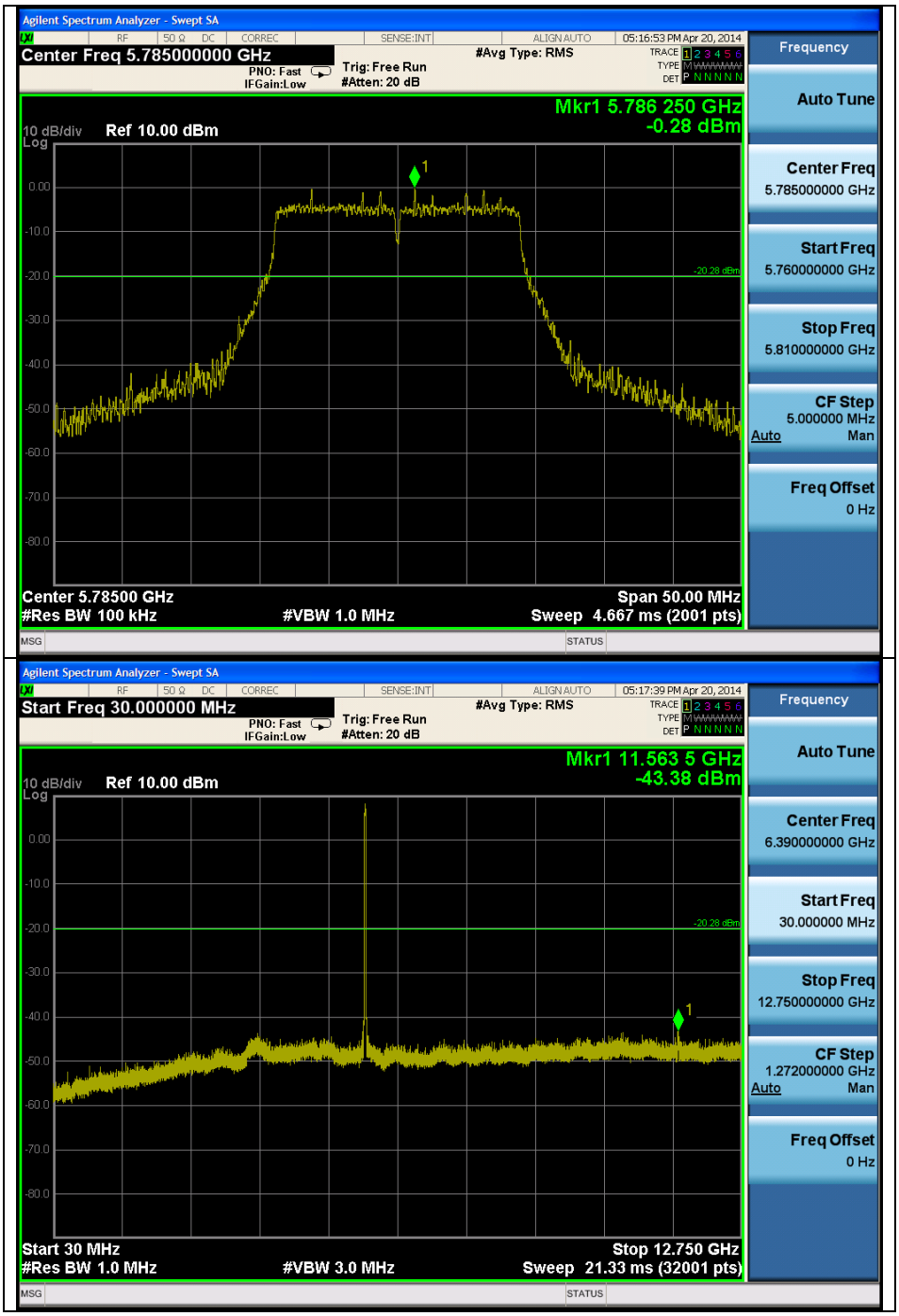
OFDM : 802.11an_HT20 (MCS0)

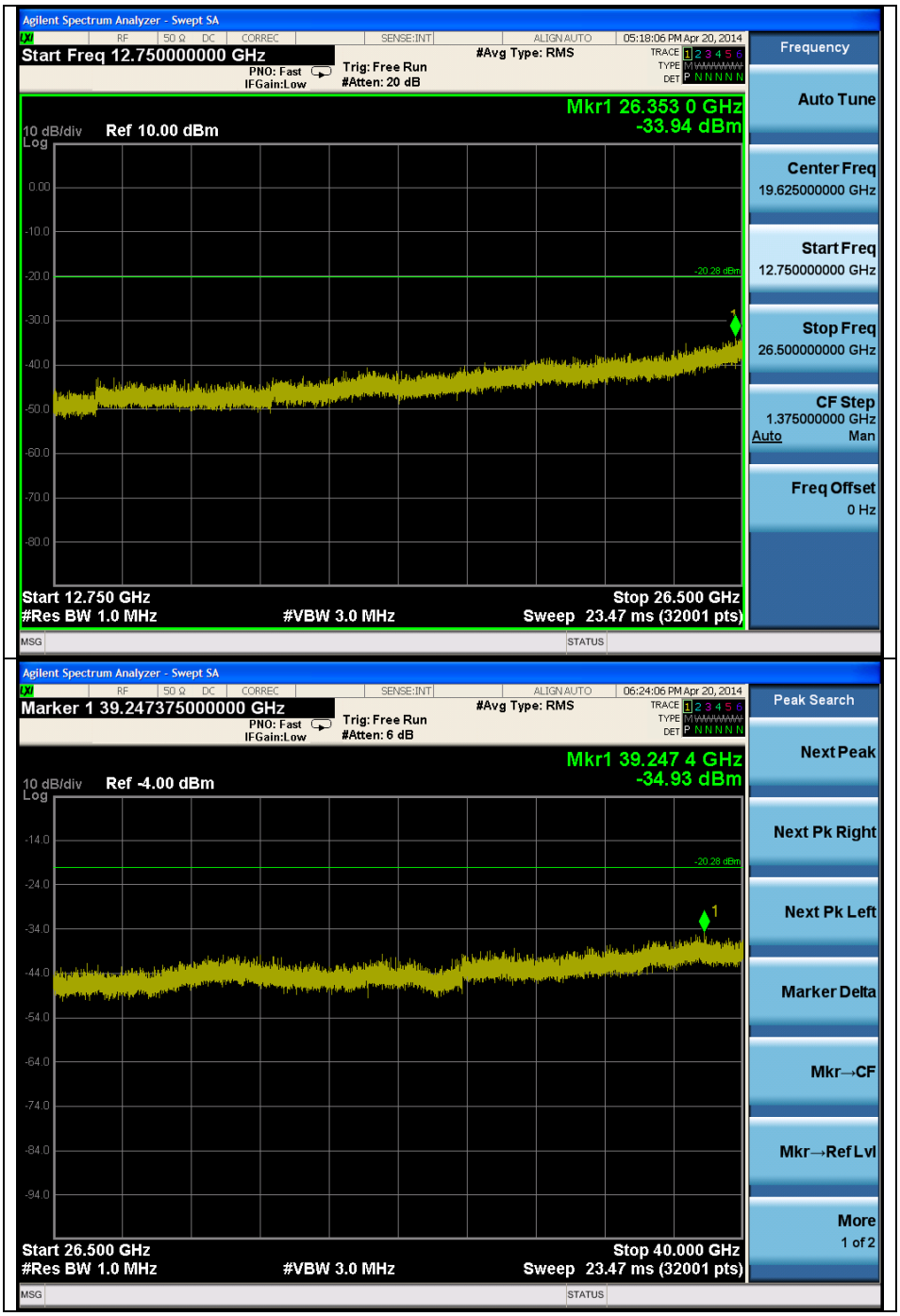
Low Channel



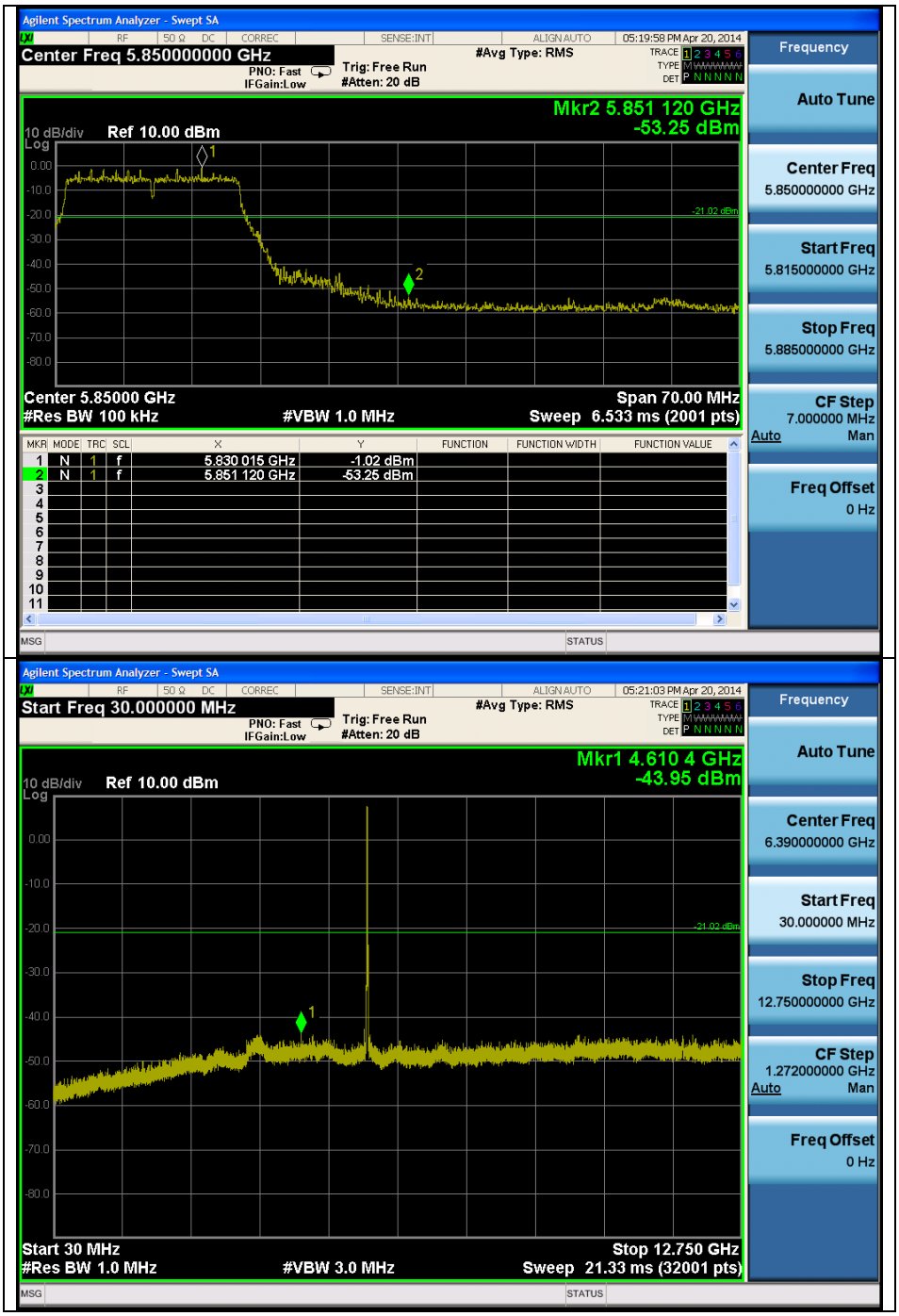


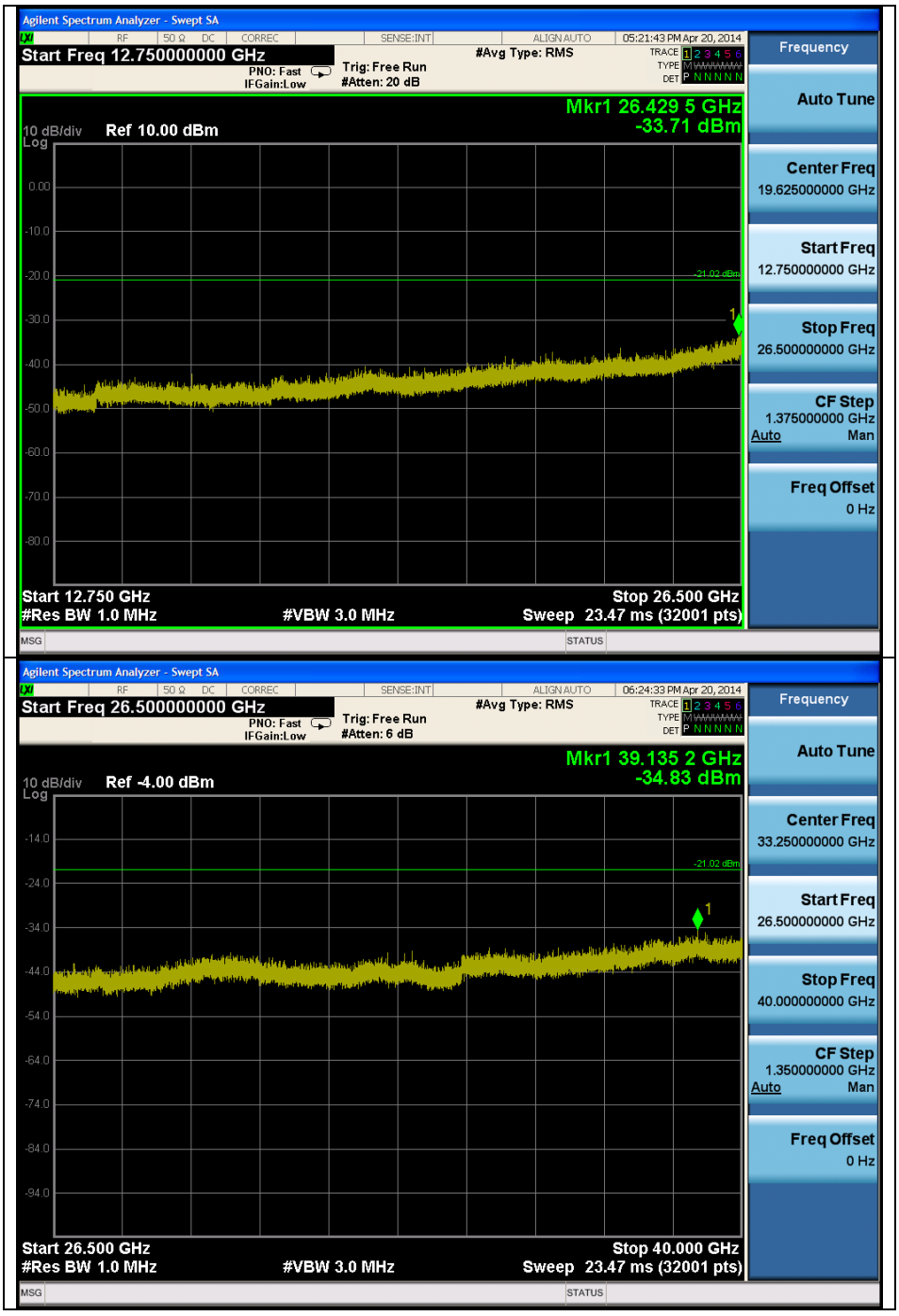
Middle Channel





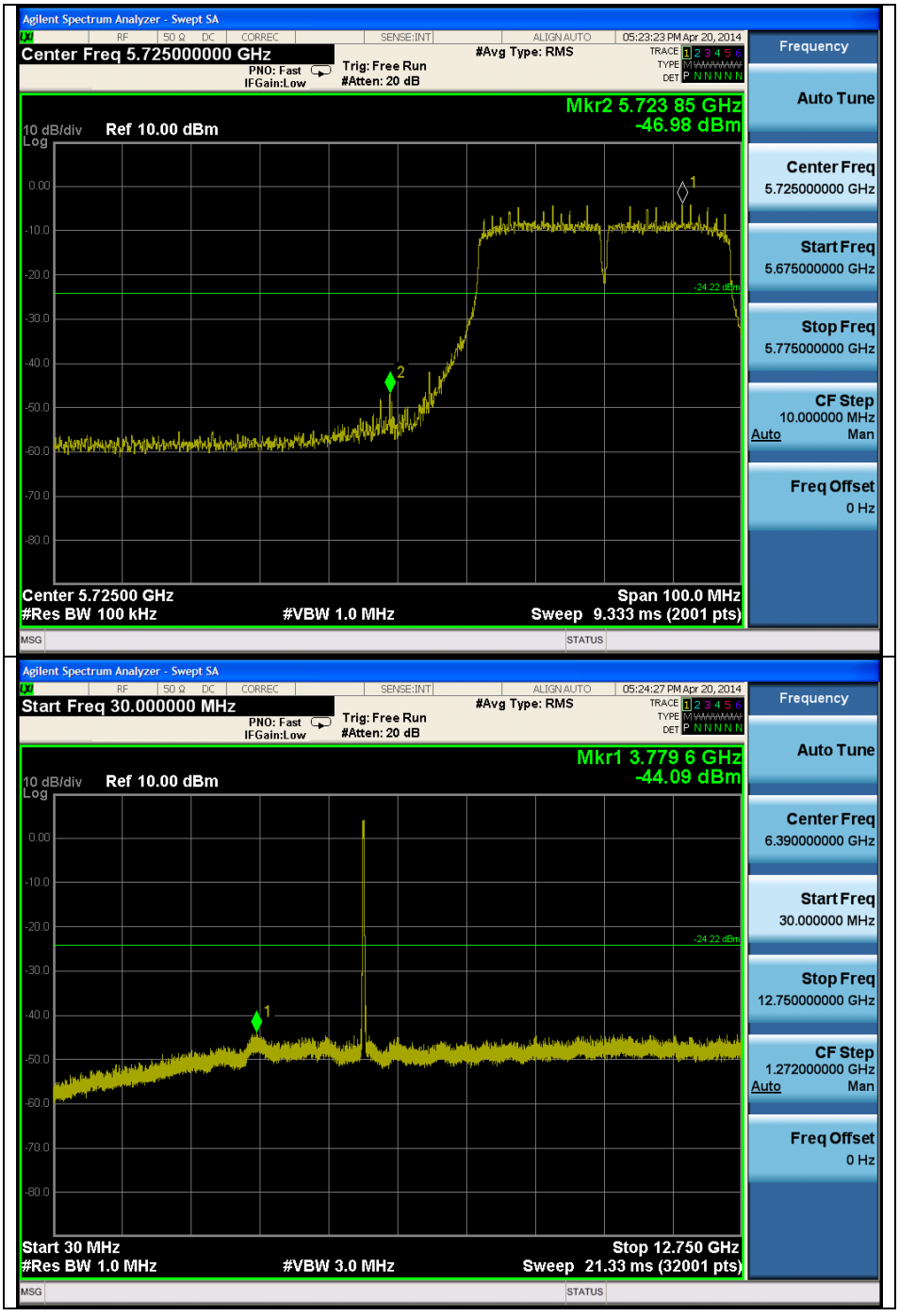
High Channel

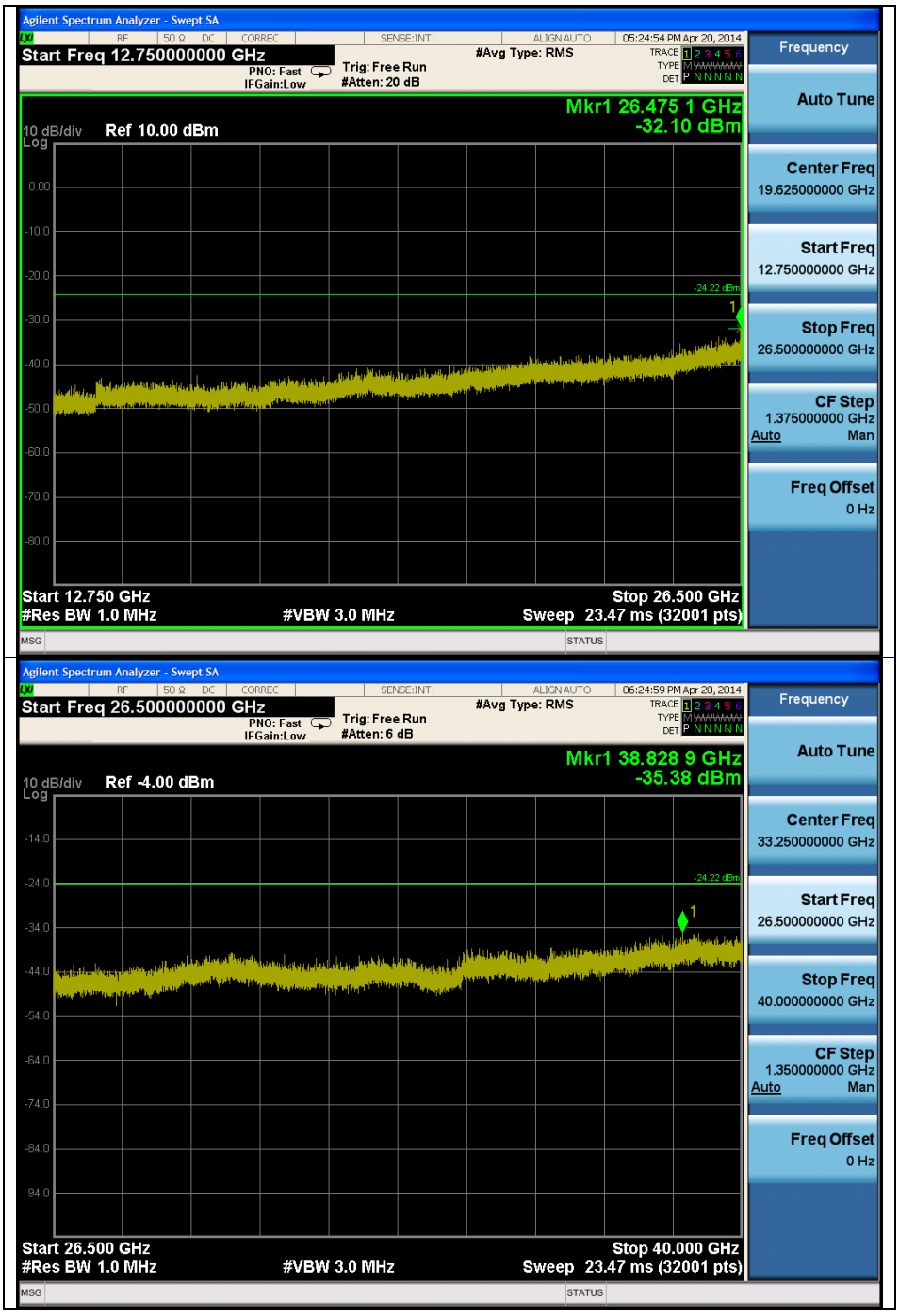




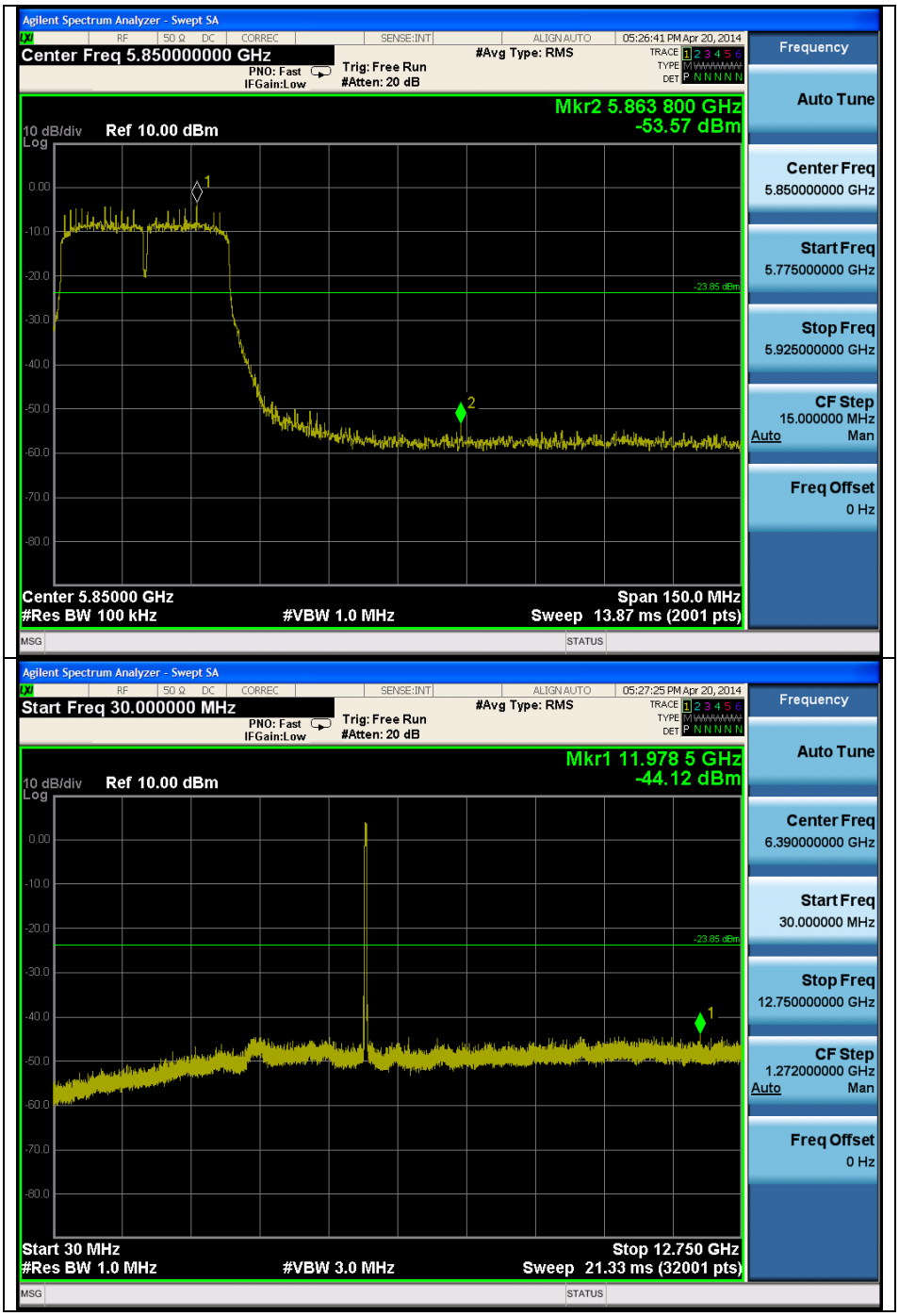
OFDM : 802.11an_HT40 (MCS0)

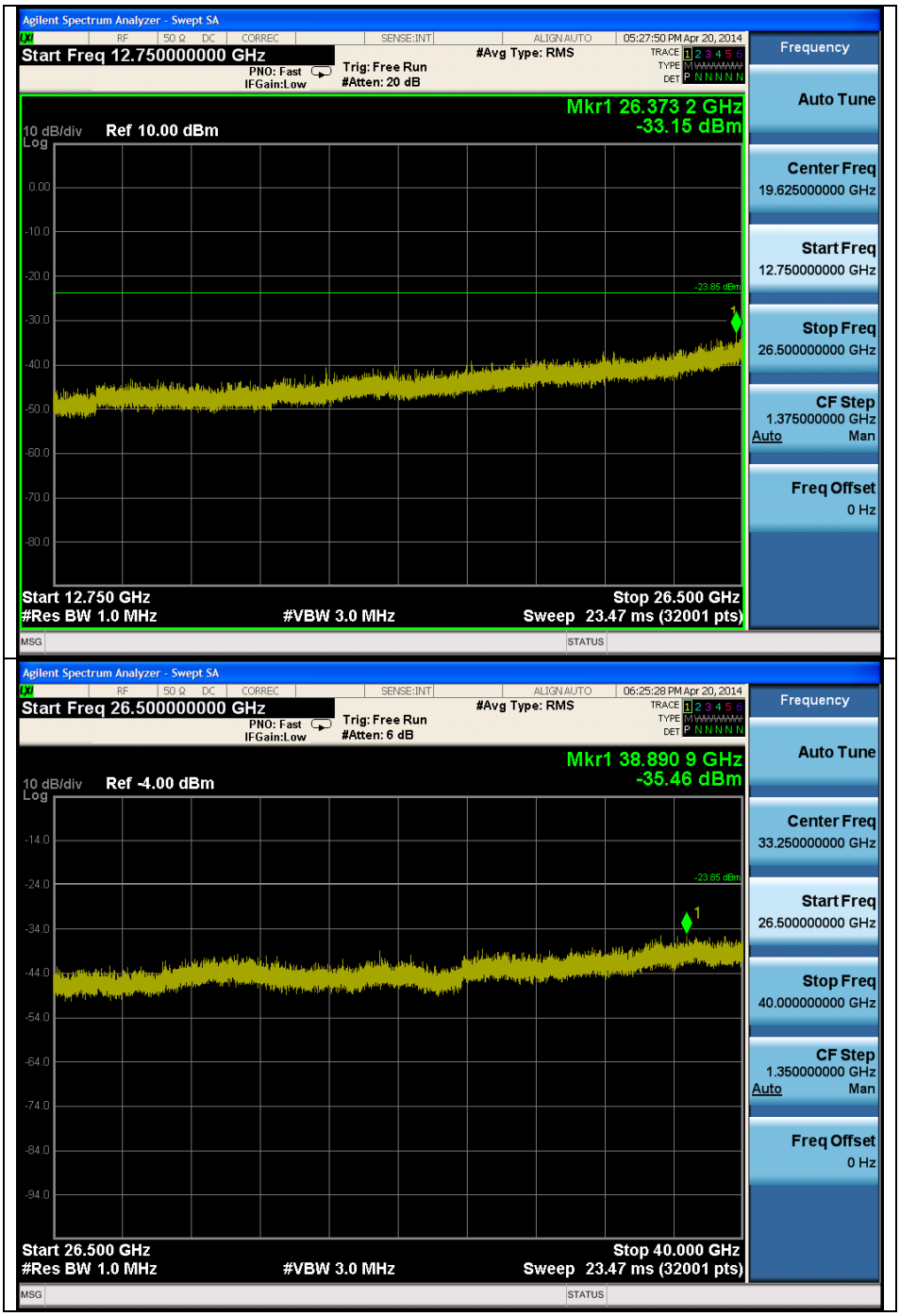
Low Channel





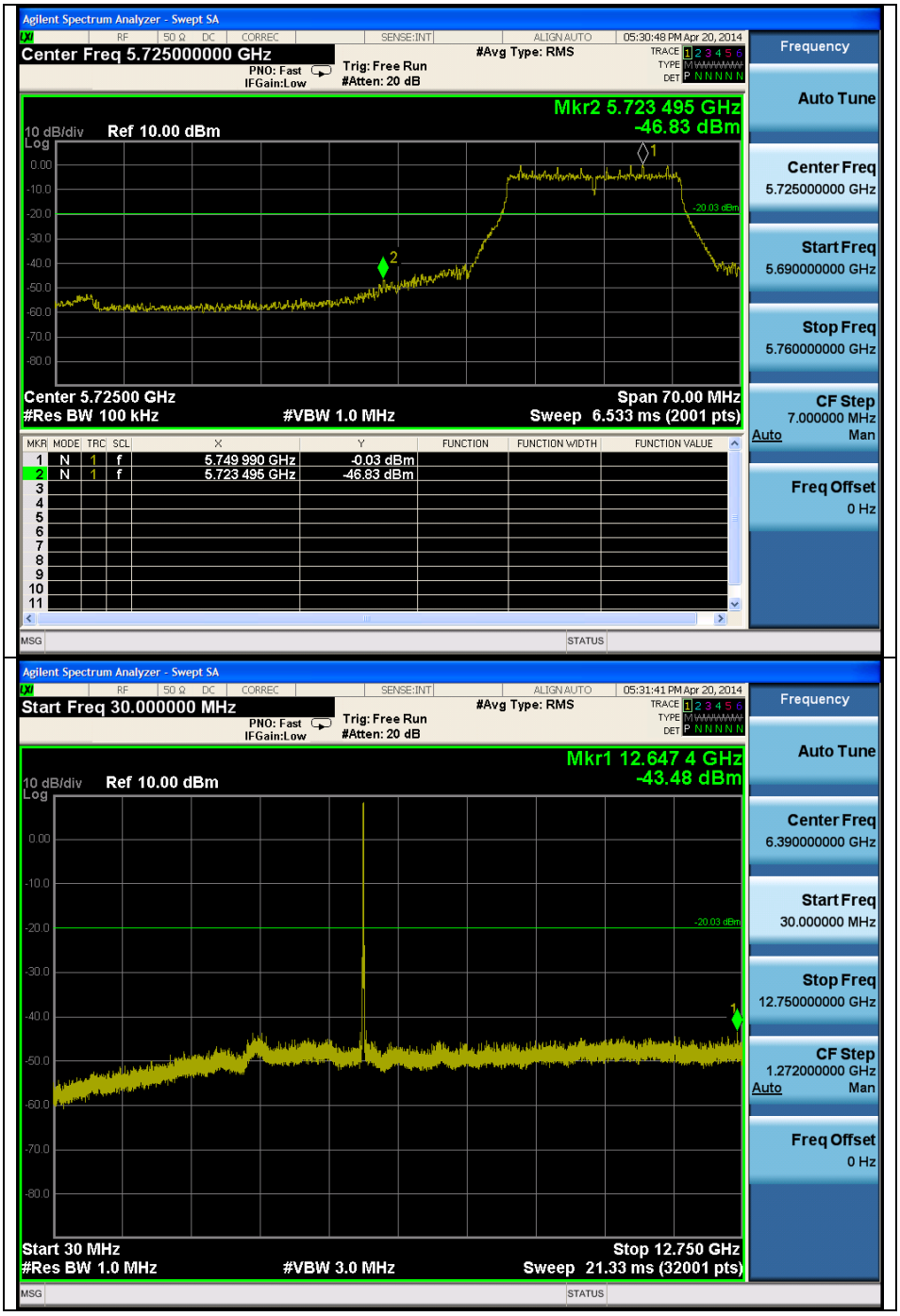
High Channel

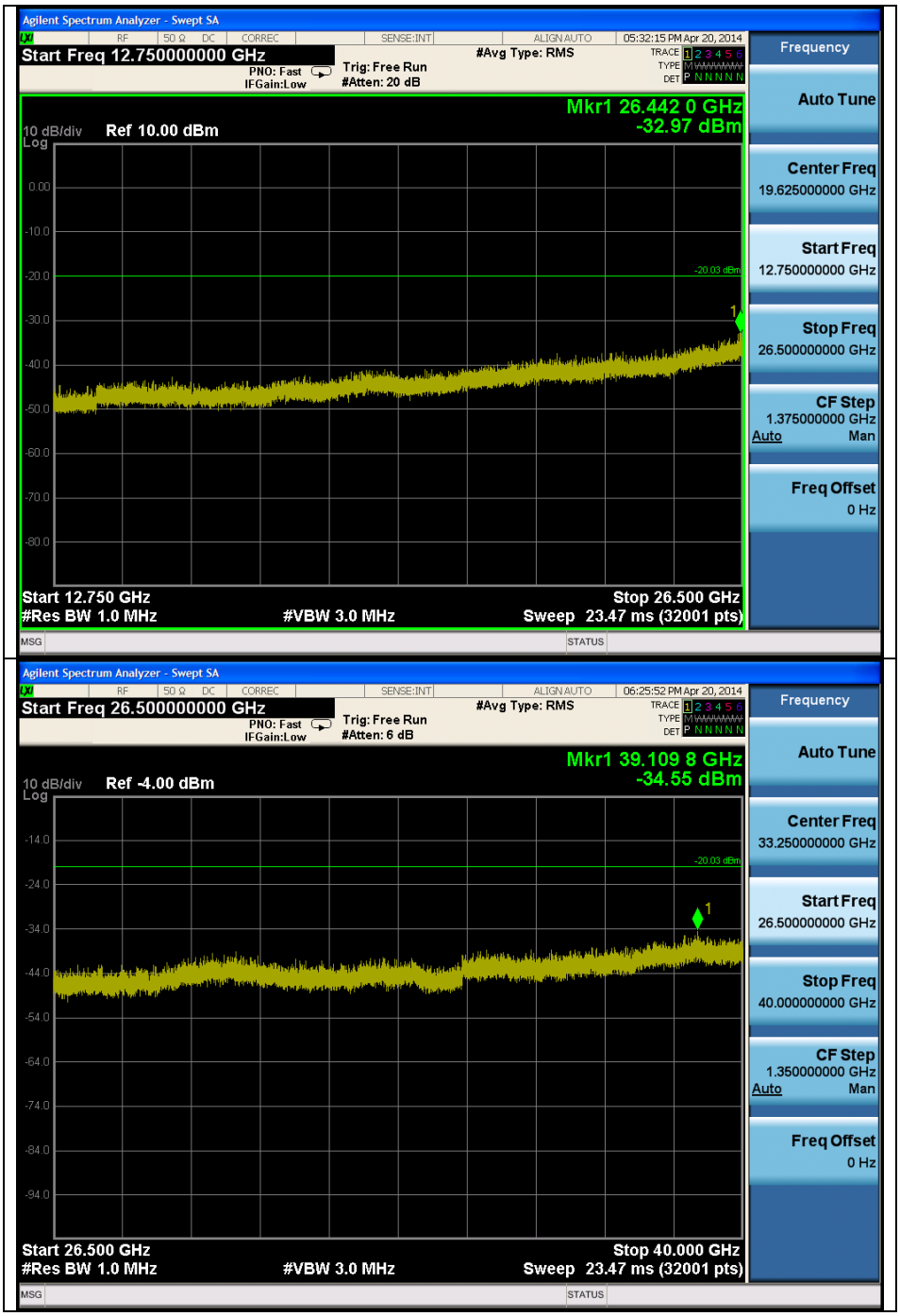




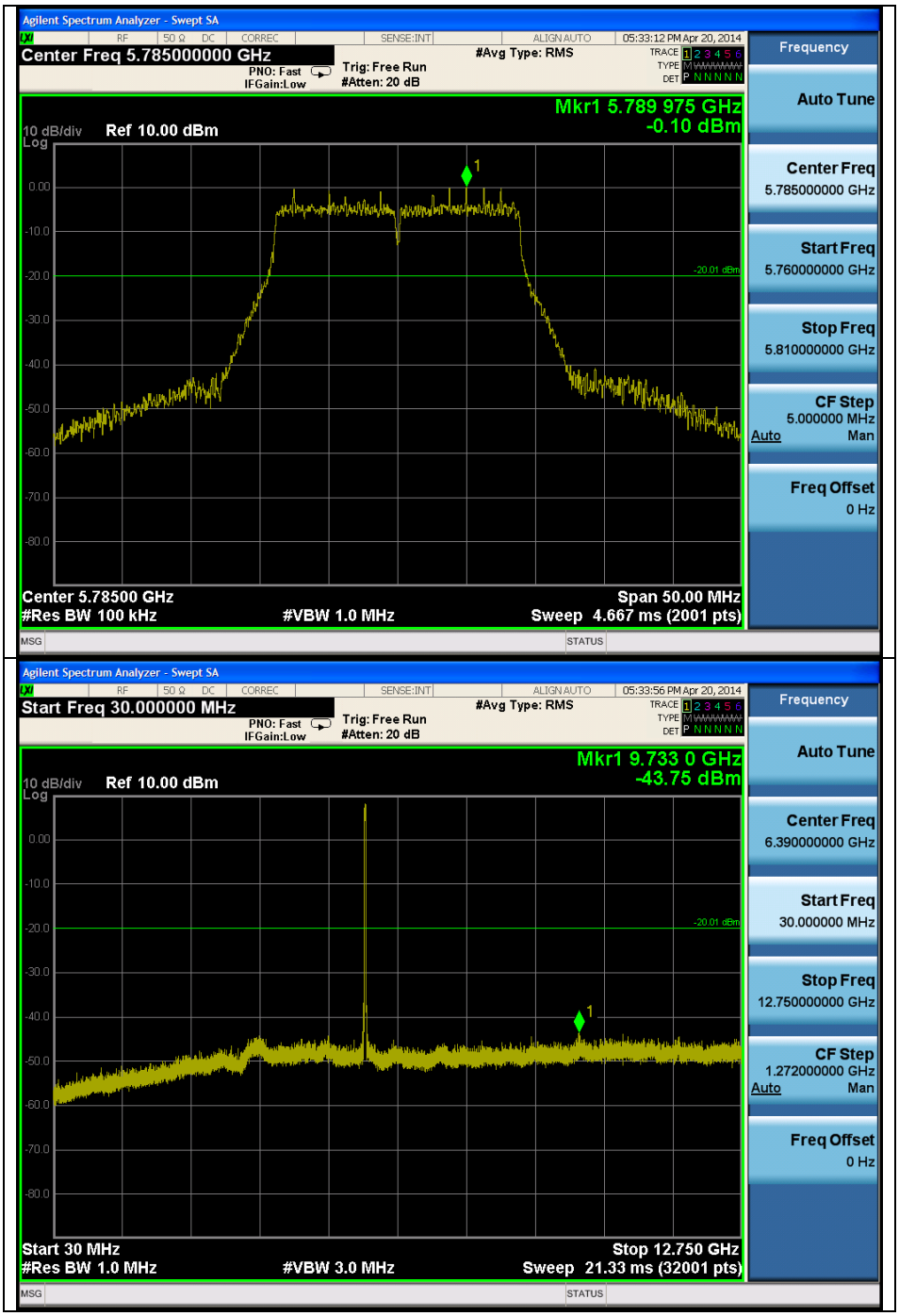
OFDM : 802.11ac_VHT20 (MCS0)

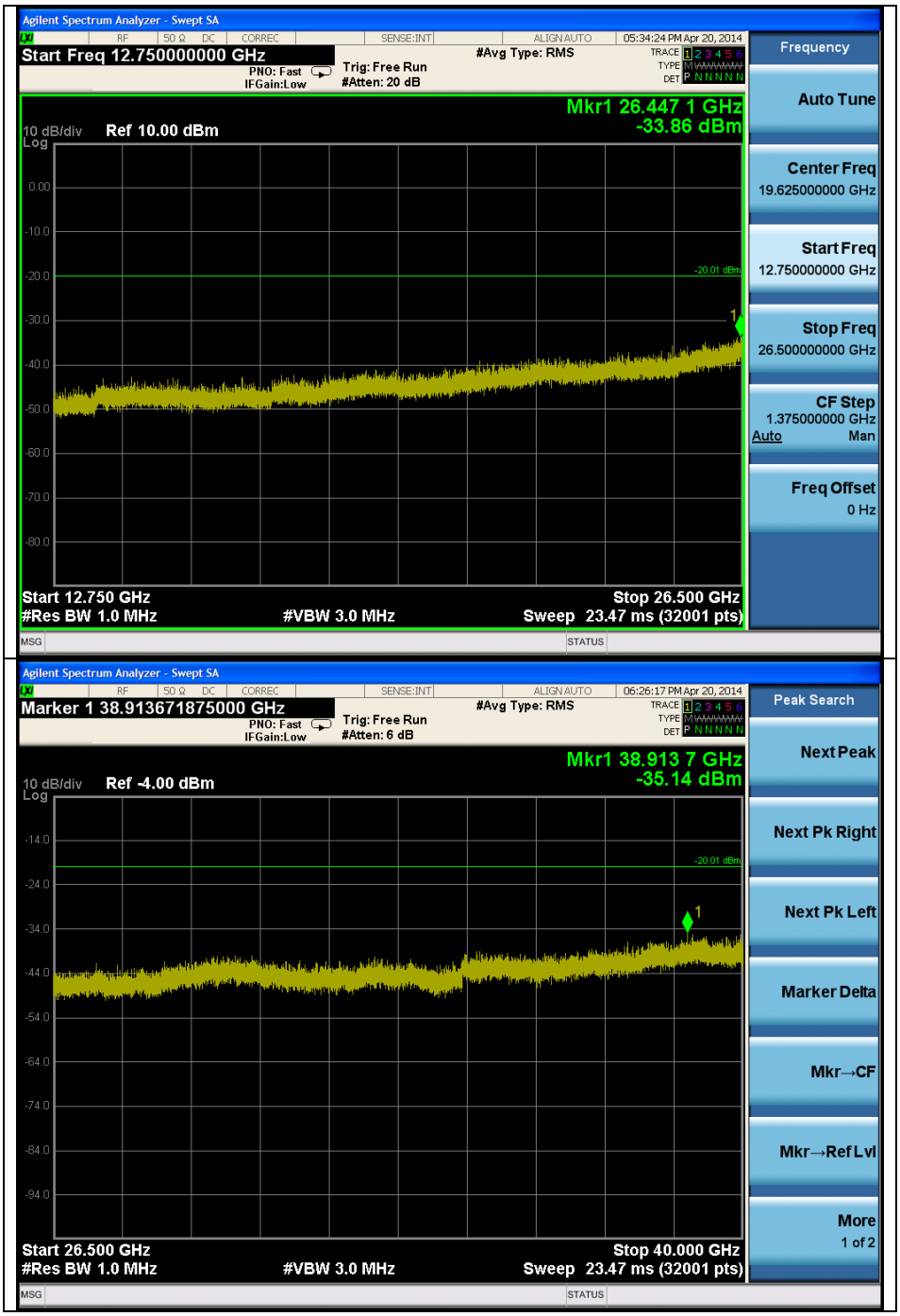
Low Channel



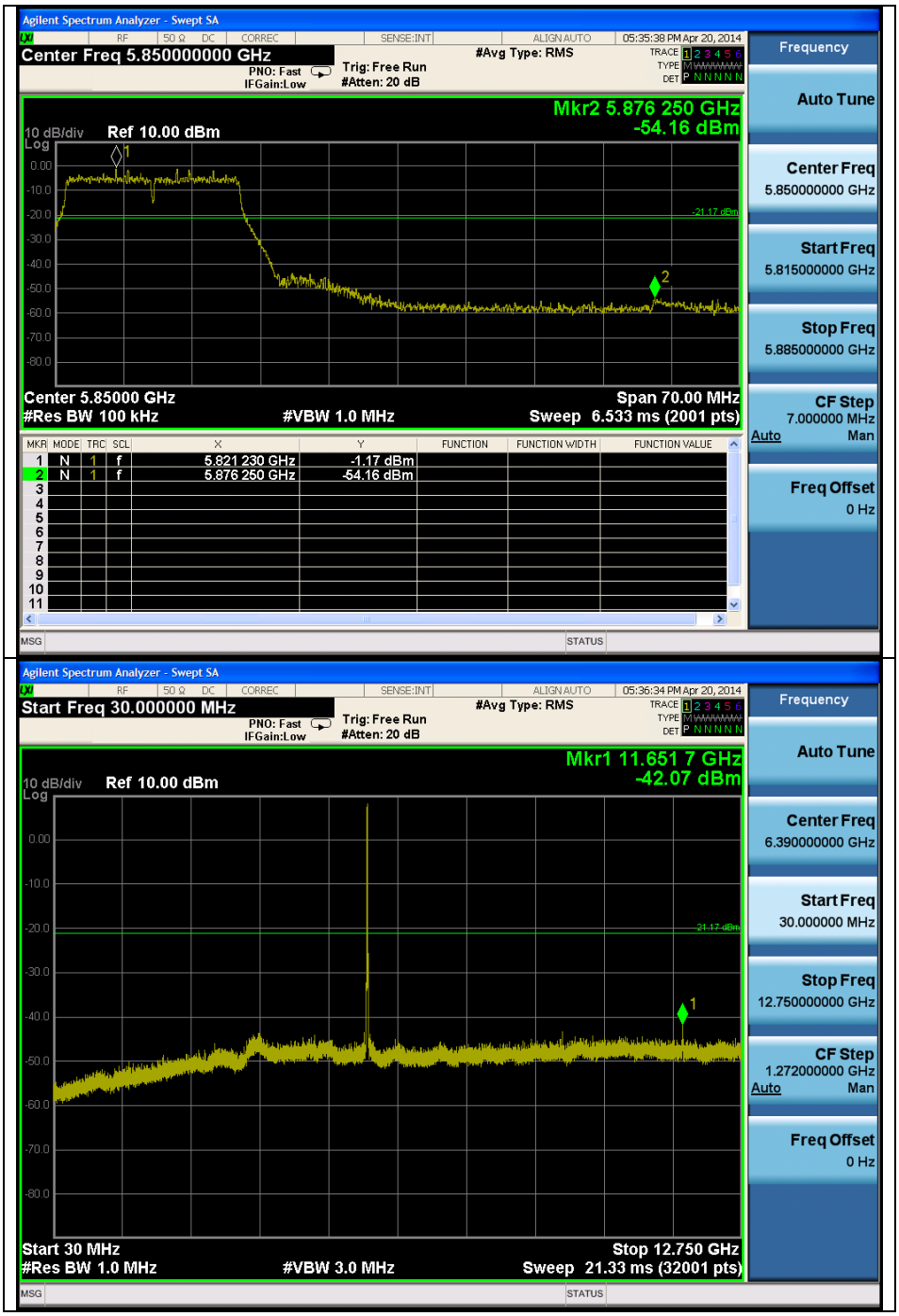


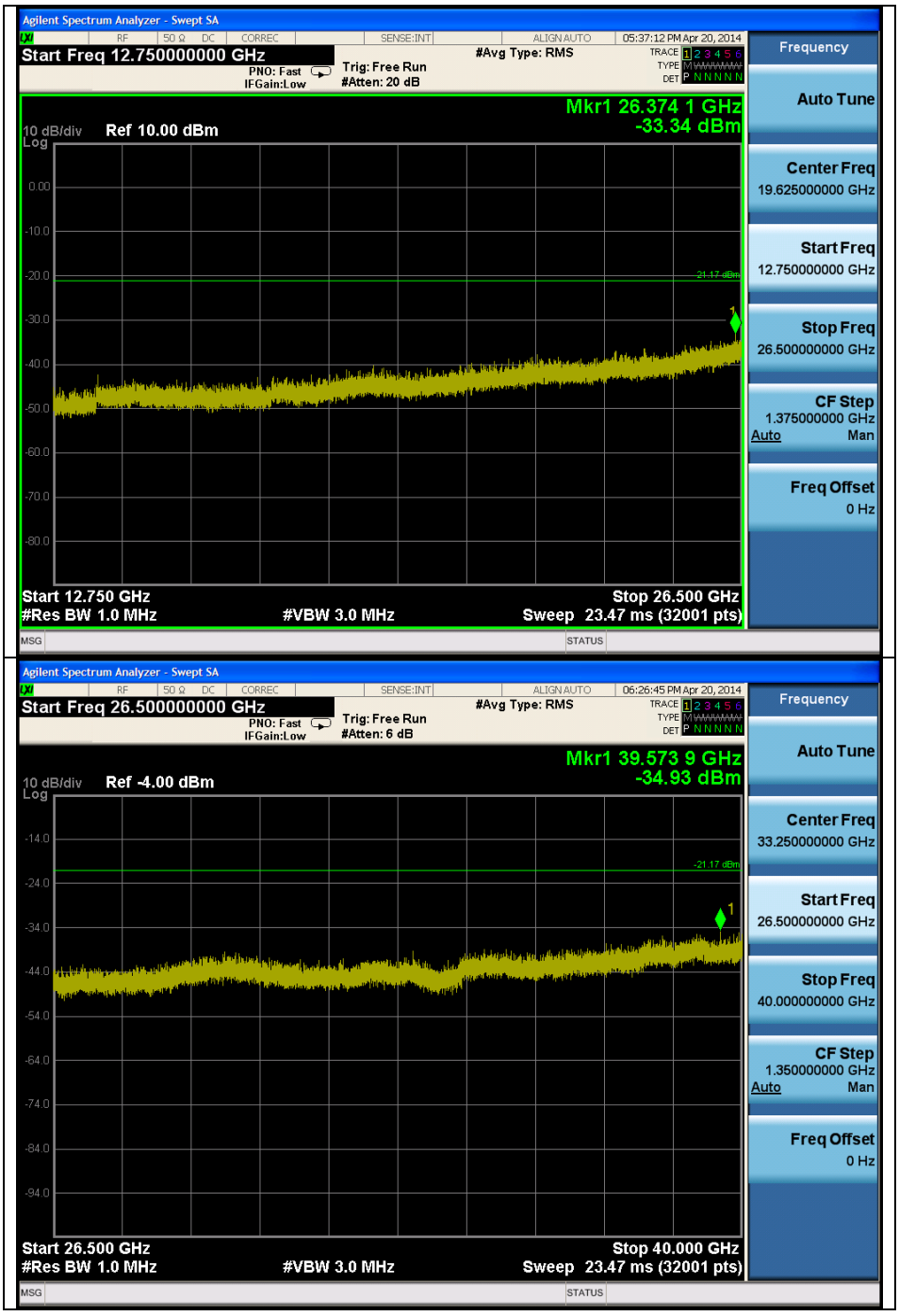
Middle Channel





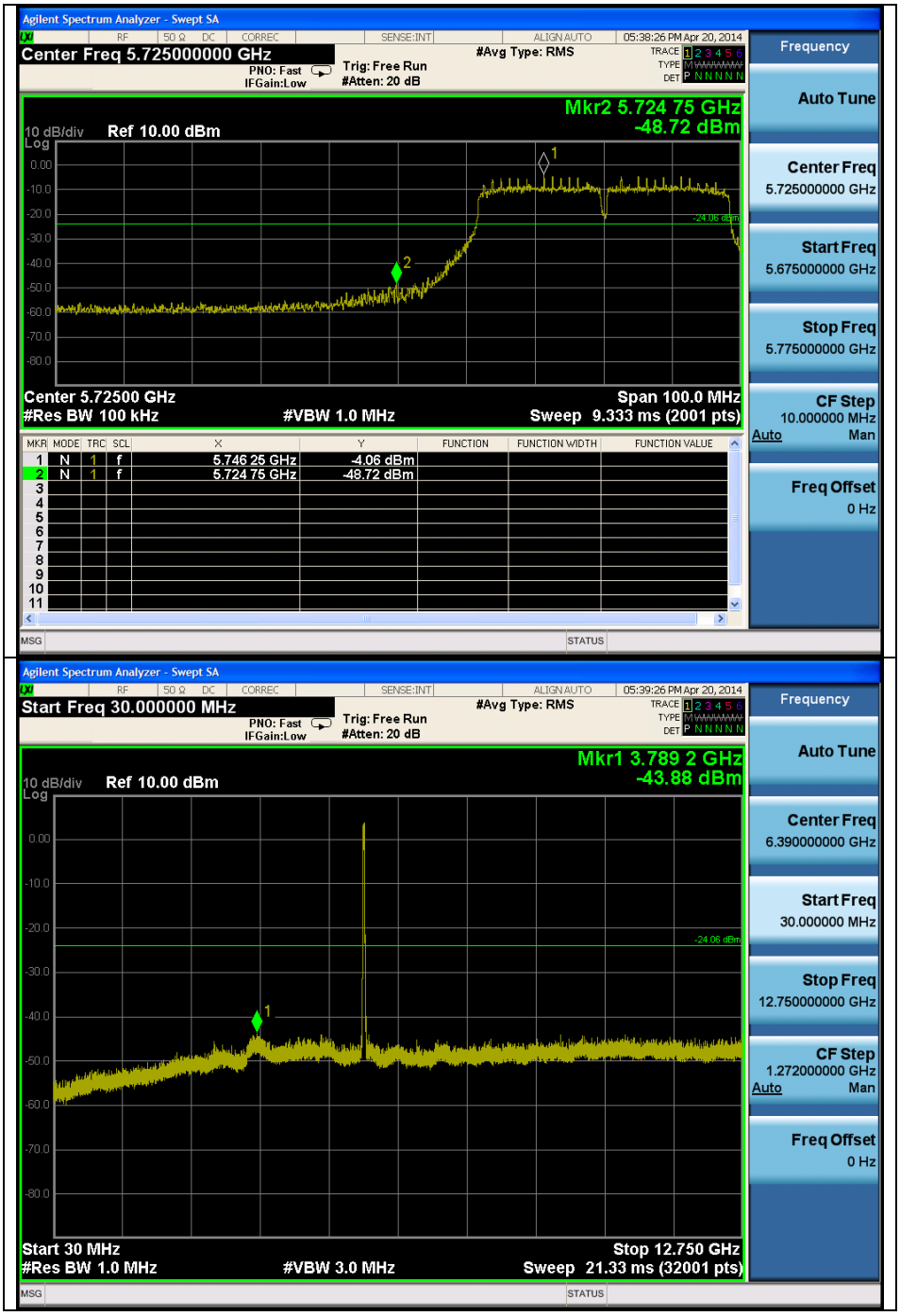
High Channel

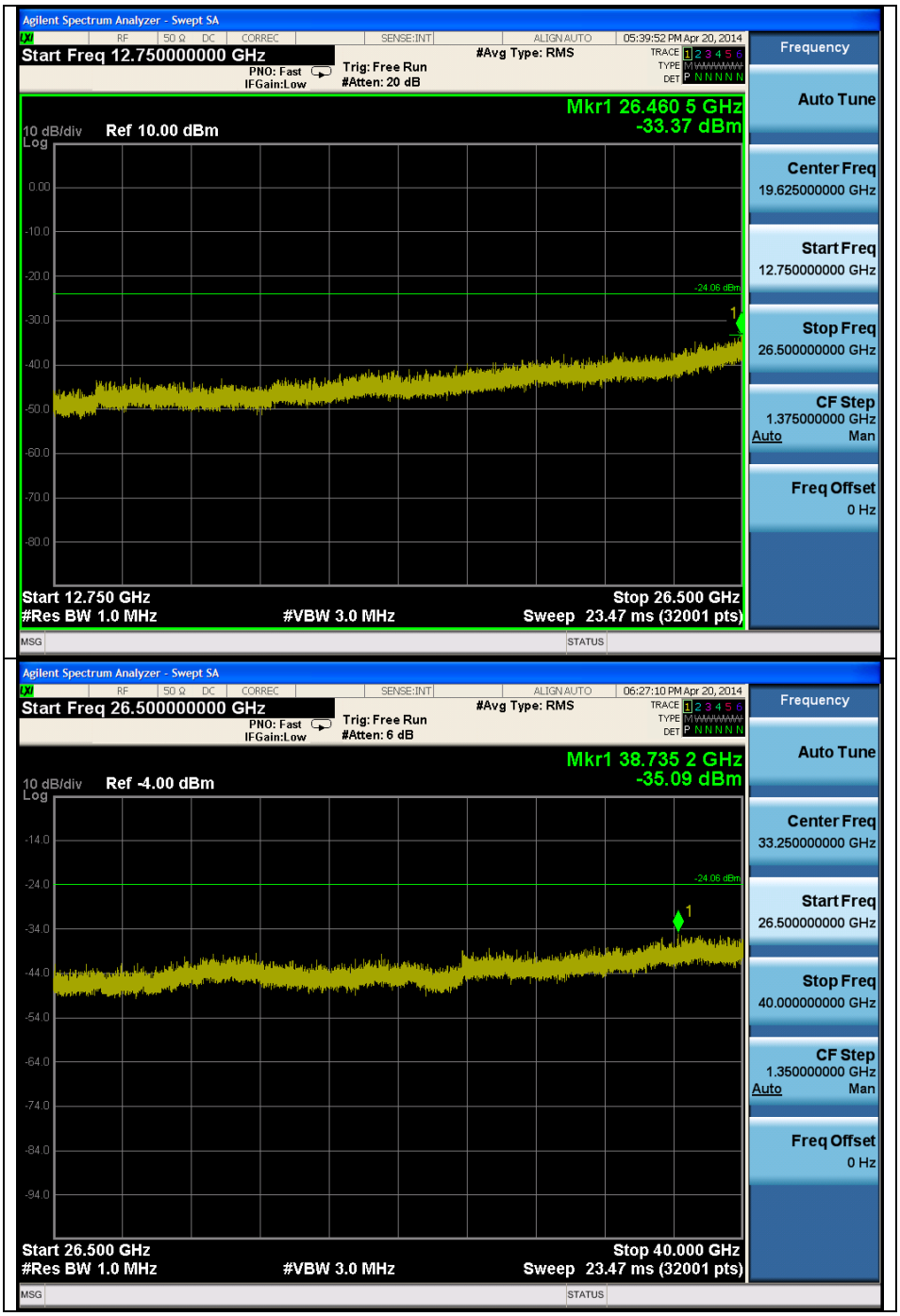




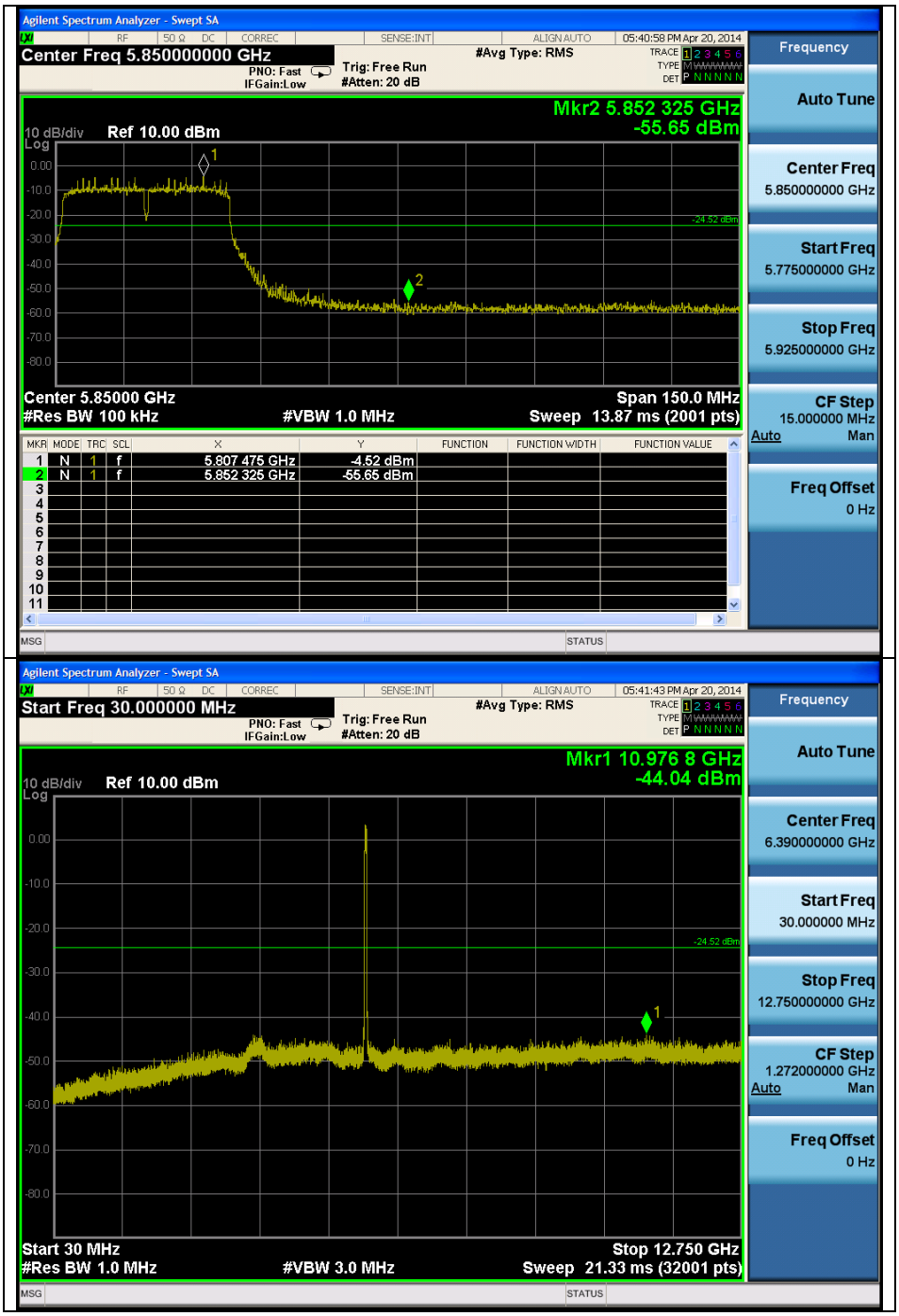
OFDM : 802.11ac_VHT40 (MCS0)

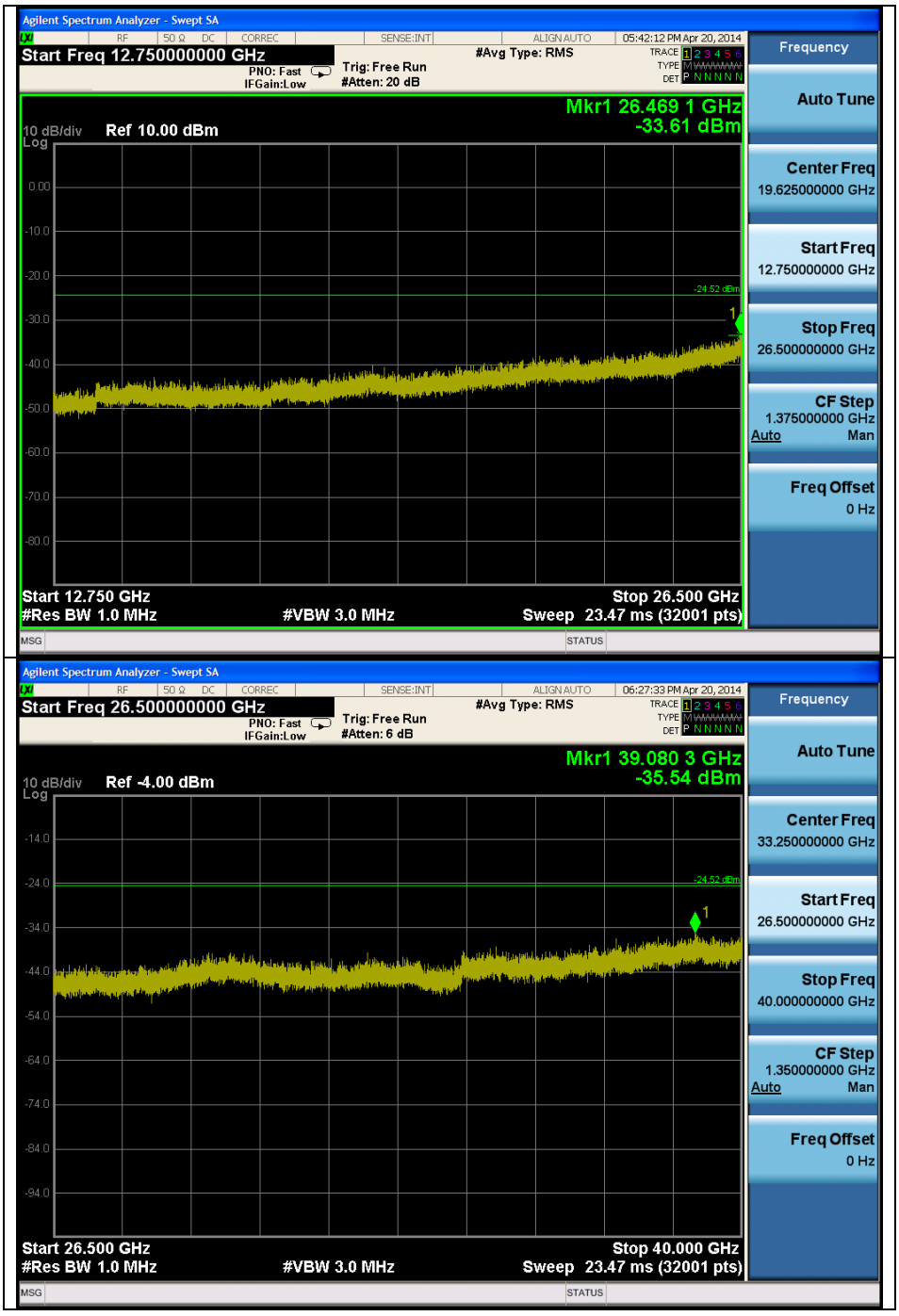
Low Channel





High Channel





OFDM : 802.11ac_VHT80 (MCS0)
Middle Channel