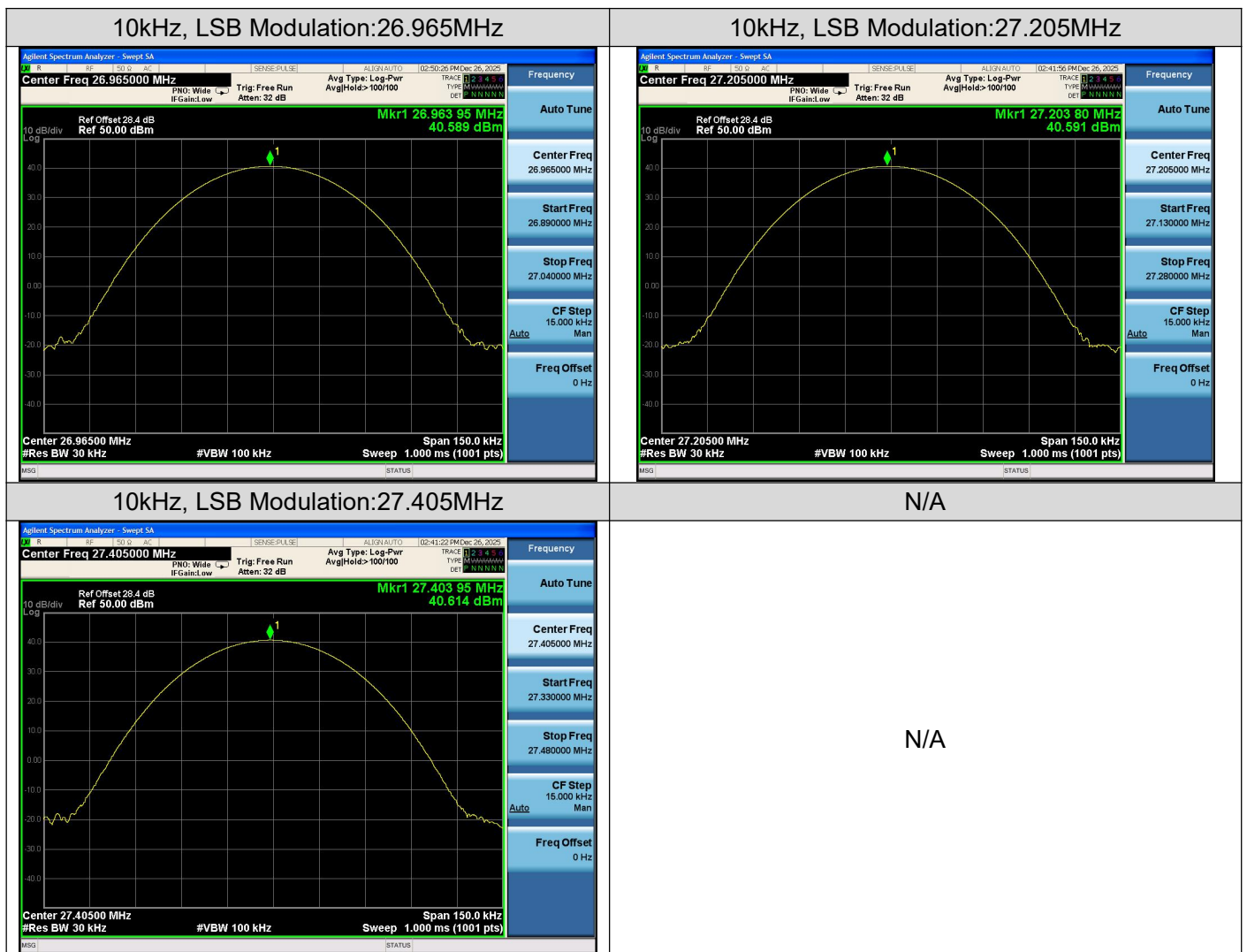


Conducted Power Measurement Results

Test Mode	Channel Separation	Test Channel	Measurement Result 12W(40.79dBm)
CBRS TX_LSB	10 kHz	26.965 MHz	40.59
		27.205 MHz	40.59
		27.405 MHz	40.61

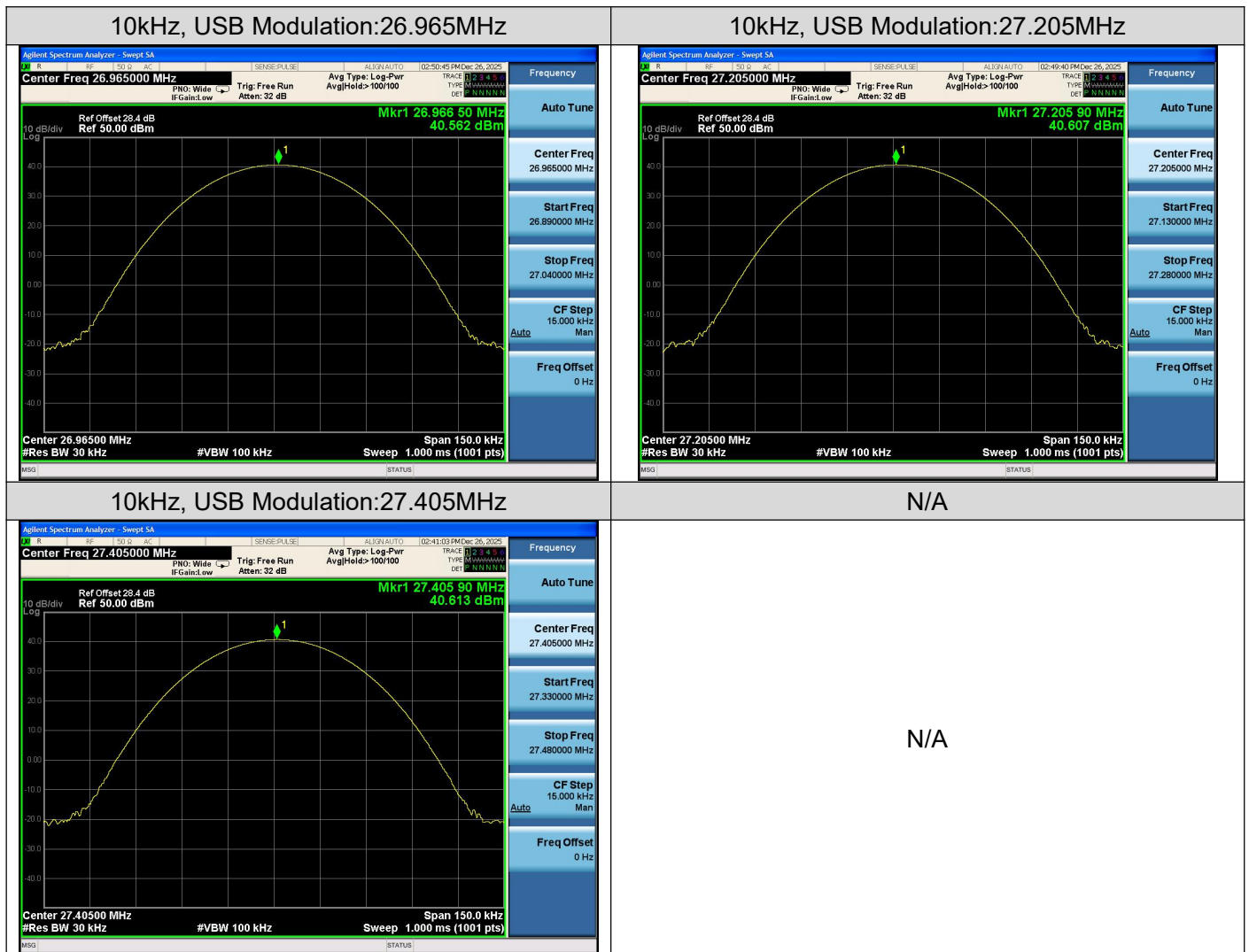
Test plot as follows:



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Conducted Power Measurement Results			
Test Mode	Channel Separation	Test Channel	Measurement Result 12W(40.79dBm)
CBRS TX_USB	10 kHz	26.965 MHz	40.56
		27.205 MHz	40.61
		27.405 MHz	40.61

Test plot as follows:

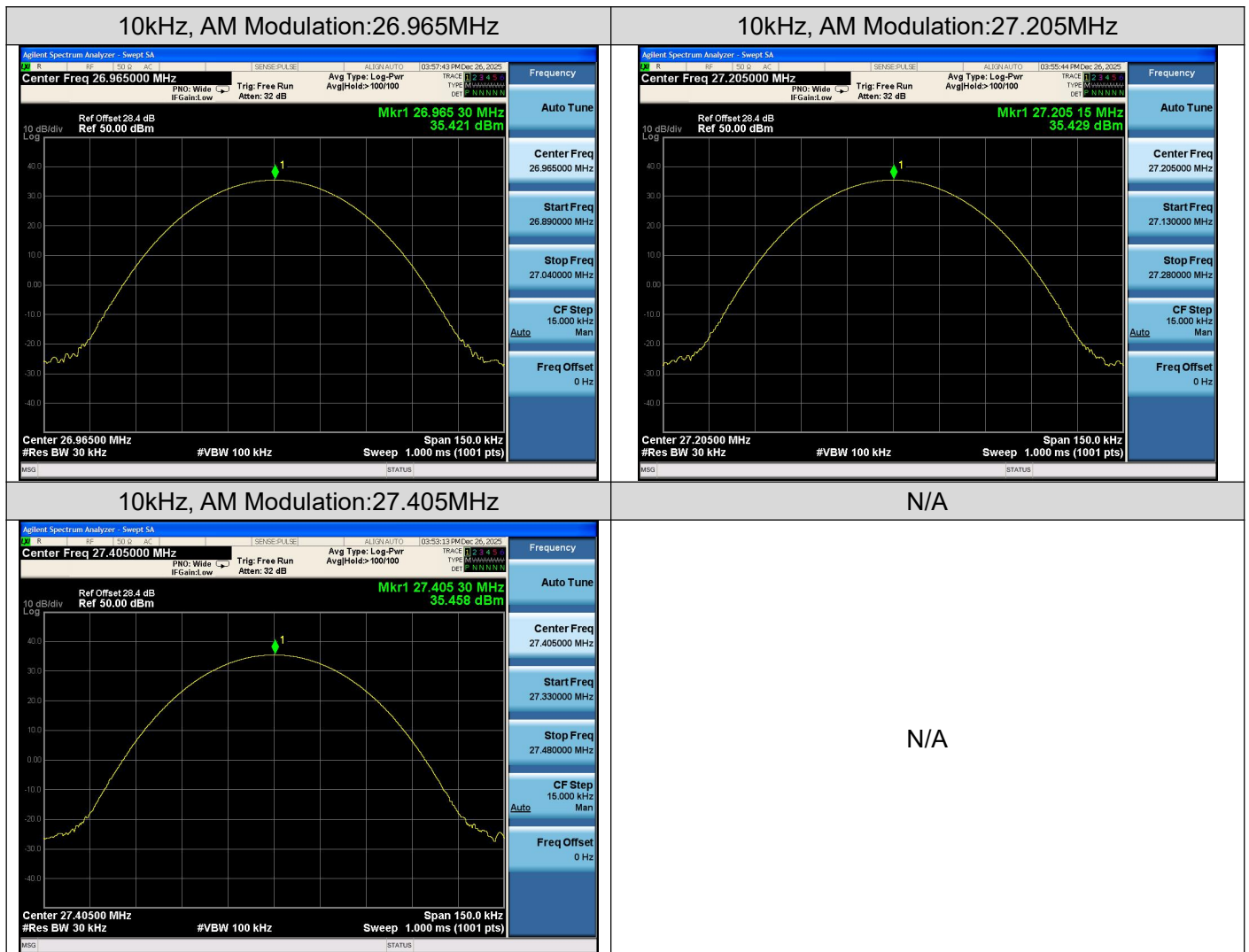


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- For DC 24V System:

Conducted Power Measurement Results			
Test Mode	Channel Separation	Test Channel	Measurement Result 4W(36.02dBm)
CBRS TX_AM	10 kHz	26.965 MHz	35.42
		27.205 MHz	35.43
		27.405 MHz	35.46

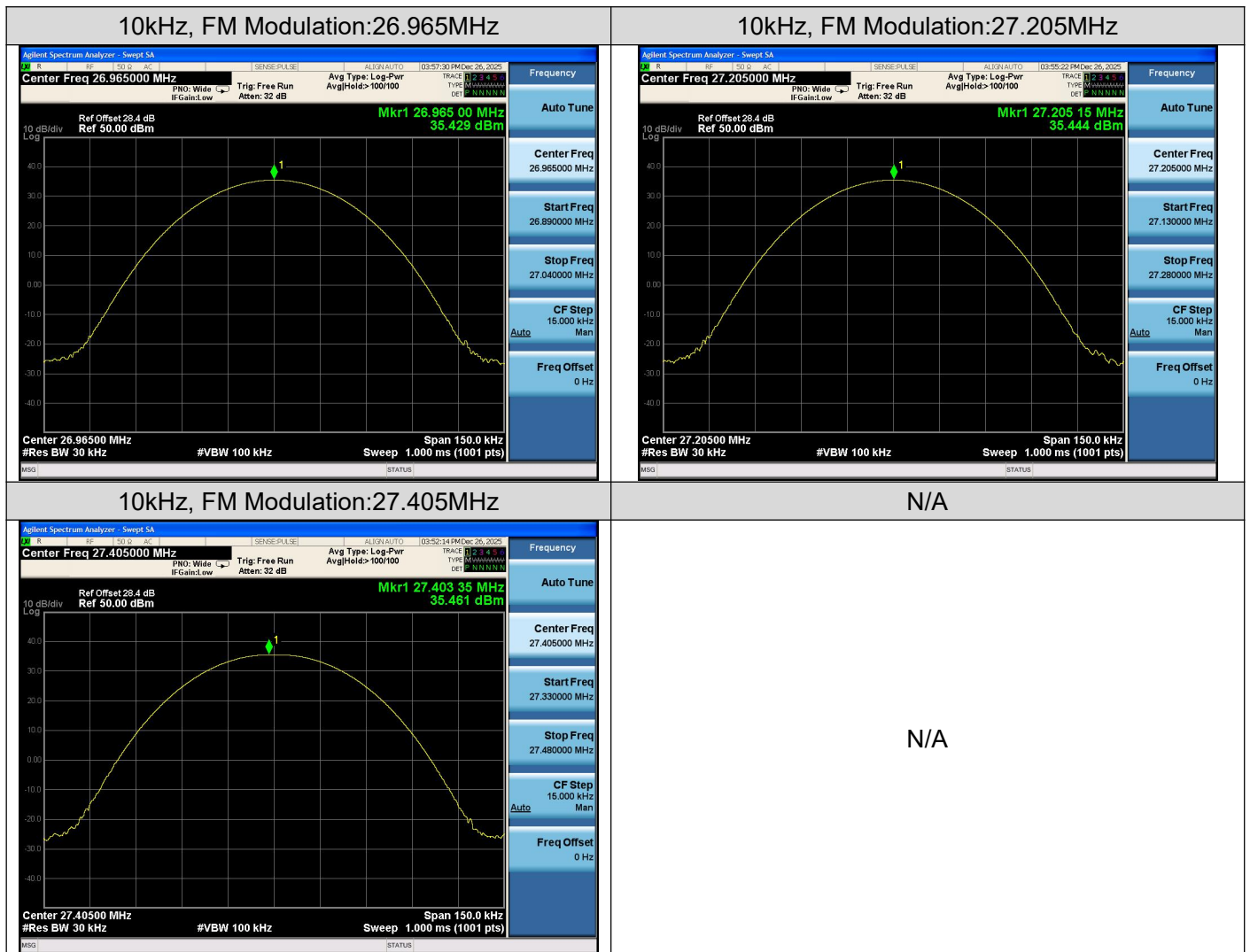
Test plot as follows:



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Conducted Power Measurement Results			
Test Mode	Channel Separation	Test Channel	Measurement Result 4W(36.02dBm)
CBRS TX_FM	10 kHz	26.965 MHz	35.43
		27.205 MHz	35.44
		27.405 MHz	35.46

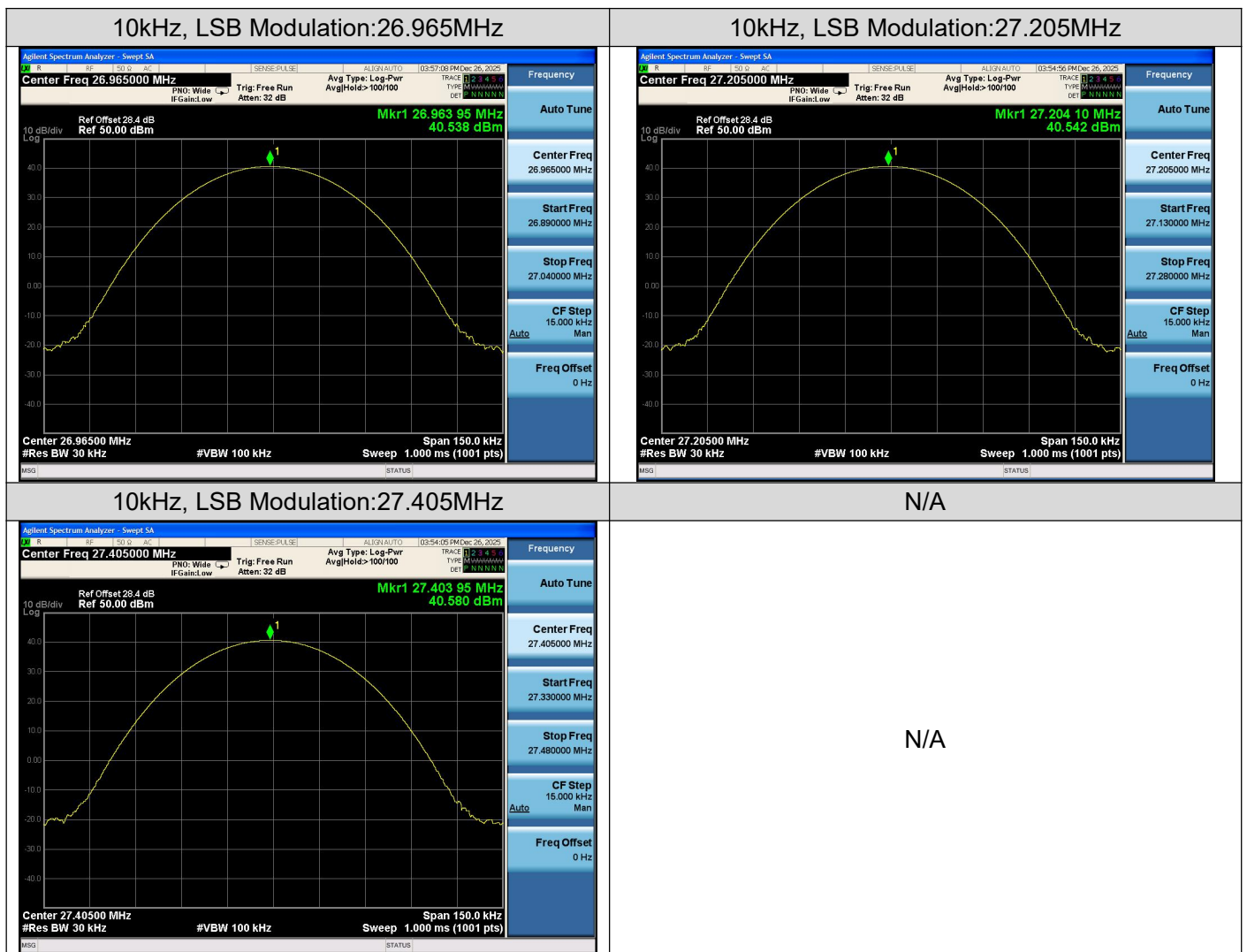
Test plot as follows:



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Conducted Power Measurement Results			
Test Mode	Channel Separation	Test Channel	Measurement Result 12W(40.79dBm)
CBRS TX_LSB	10 kHz	26.965 MHz	40.54
		27.205 MHz	40.54
		27.405 MHz	40.58

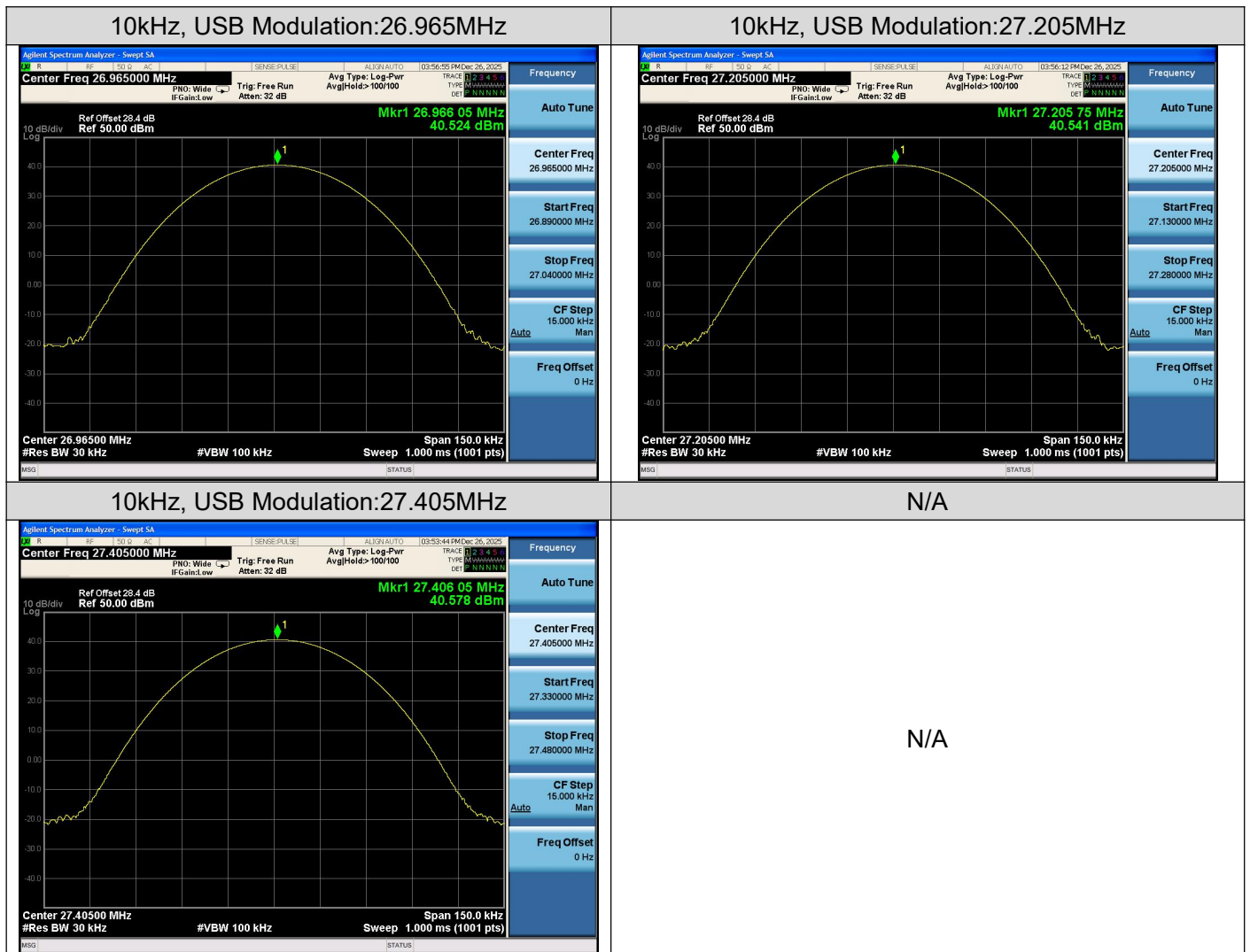
Test plot as follows:



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Conducted Power Measurement Results			
Test Mode	Channel Separation	Test Channel	Measurement Result 12W(40.79dBm)
CBRS TX_USB	10 kHz	26.965 MHz	40.52
		27.205 MHz	40.54
		27.405 MHz	40.58

Test plot as follows:



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10. Spurious Emission on Antenna Port

10.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057 & 95.979 for specification details.

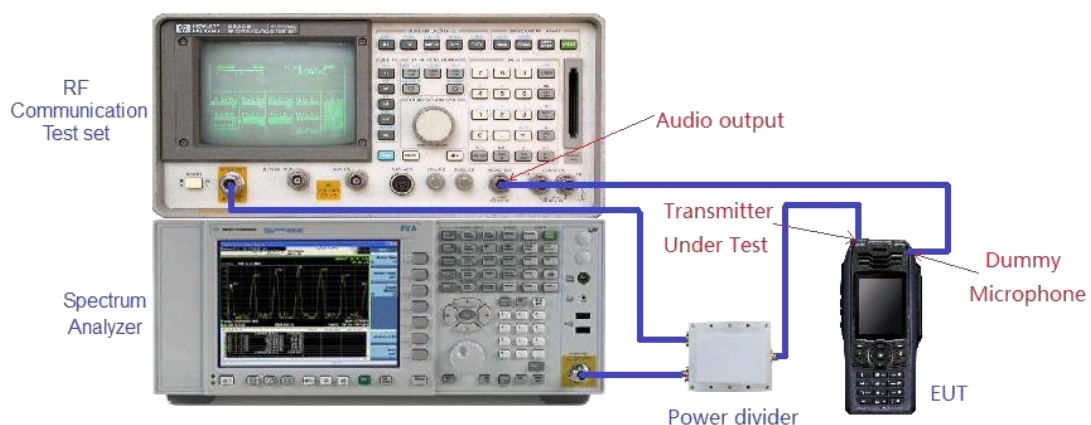
Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 95.979	At least $53 + 10 \log (P)$ dB
§ 95.979	60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.

10.2 Measurement Procedure

- The RF output of the EUT is connected to the spectrum analyzer with appropriate attenuation.
 - The audio input is set to an unmodulated carrier
 - The resolution bandwidth of the spectrum analyzer is set to 100 kHz. A sufficient sweep is performed to
 - Display any out-of-band emissions up to the 10th harmonic. Minimum and maximum frequency range.
- Out-of-band unwanted spurious emission requirements:
- Set RBW 100 kHz, VBW 300 kHz in the frequency band from 30MHz to 1GHz, and set
 - From 1GHz to the 10th harmonic, RBW=1MHz.VBW=3MHz.
- Harmonic emission spurious requirements:
- According to the maximum transmit power of the measurement center frequency, attenuate 60dB downward
 - The reference level of the maximum transmit power is the conducted maximum transmit power, set the limit
 - In the frequency band from 30MHz to 1GHz, set RBW 100 kHz, VBW 300 kHz, and set
 - From 1GHz to the 10th harmonic, RBW=1MHz.VBW=3MHz.
 - Record whether the corresponding harmonic meets the limit requirements
 - Finally, record the spectrum or table in the report.

10.3 Measurement Setup



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

10.4 Measurement Result

- The Unwanted spurious emissions limits are as follows:

Attenuation Requirement Results	Reference limit
At least $53+10\log(P) = 53+10\log(4W) = 59.02$ (dB)	Limit=P(dBm)- Preliminary calculation=-23dBm
At least $53+10\log(P) = 53+10\log(12W) = 63.79$ (dB)	Limit=P(dBm)- Preliminary calculation=-23dBm

- The Harmonic emissions spurious limits are as follows:

The maximum power of the measured fundamental frequency drops by at least 60dB

- For DC 12V System:

Test Mode	Fundamental Frequency (MHz)	Maximum Power (dBm)	Reference limit (dBm)
AM	26.965	35.43	-24.57
	27.205	35.45	-24.55
	27.405	35.42	-24.58
FM	26.965	35.46	-24.54
	27.205	35.44	-24.57
	27.405	35.46	-24.54
LSB	26.965	40.59	-19.41
	27.205	40.59	-19.41
	27.405	40.61	-19.39
USB	26.965	40.56	-19.44
	27.205	40.61	-19.39
	27.405	40.61	-19.39

- The antenna end conducted spurious harmonic data are as follows:

- Worst case result with AM modulation mode:

Fundamental (MHz)	Harmonic Frequency (MHz)	Measurement Results (dBm)	Reference limit (dBm)	Margin (dB)
26.965	53.94	-33.570	-24.57	-9.00
27.205	54.43	-33.912	-24.55	-9.36
27.405	54.82	-34.084	-24.58	-9.50

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● For DC 24V System:

Test Mode	Fundamental Frequency (MHz)	Maximum Power (dBm)	Reference limit (dBm)
AM	26.965	35.43	-24.57
	27.205	35.45	-24.55
	27.405	35.42	-24.58
FM	26.965	35.46	-24.54
	27.205	35.44	-24.57
	27.405	35.46	-24.54
LSB	26.965	40.59	-19.41
	27.205	40.59	-19.41
	27.405	40.61	-19.39
USB	26.965	40.56	-19.44
	27.205	40.61	-19.39
	27.405	40.61	-19.39

✚ The antenna end conducted spurious harmonic data are as follows:

➤ Worst case result with AM modulation mode:

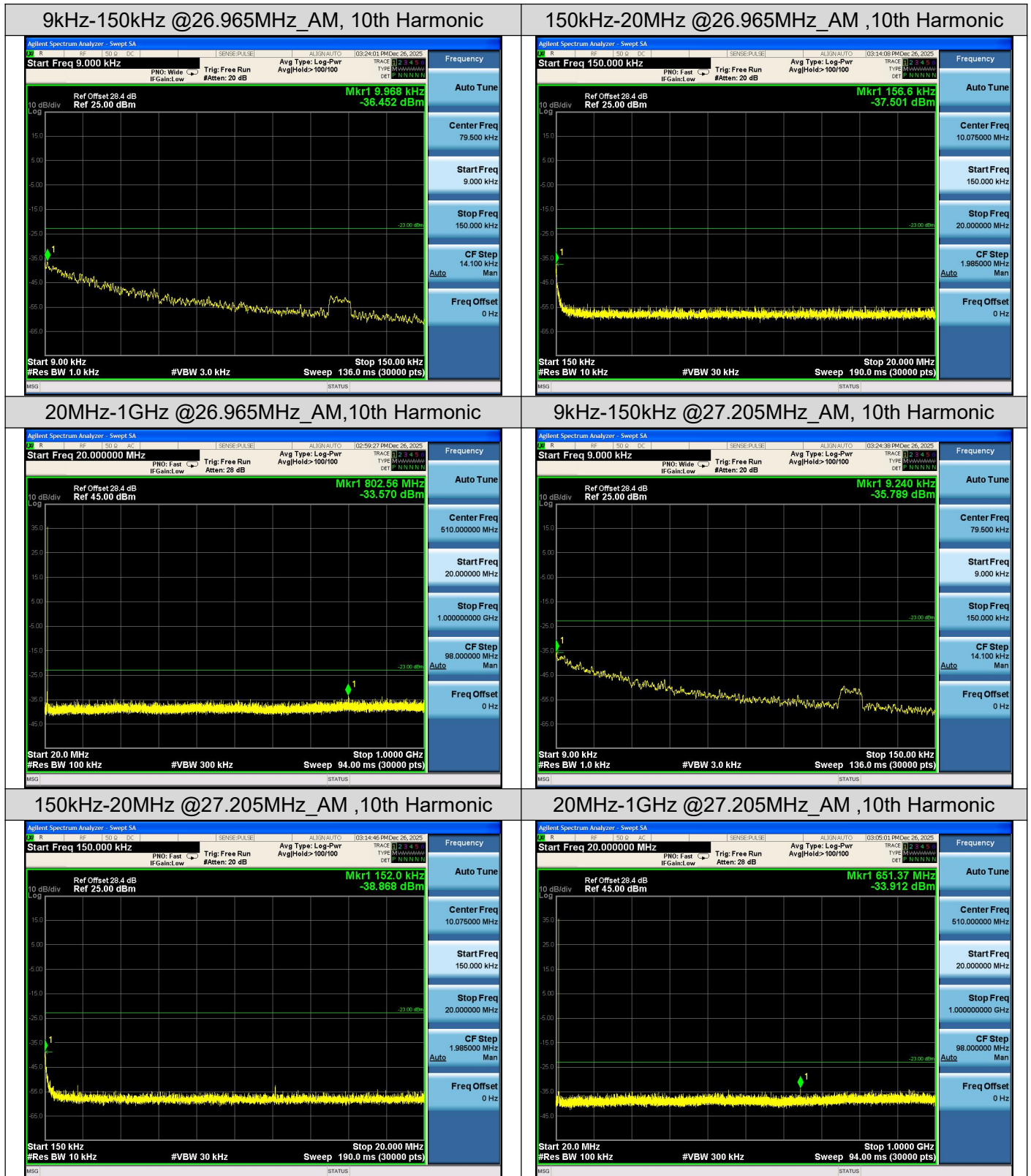
Fundamental (MHz)	Harmonic Frequency (MHz)	Measurement Results (dBm)	Reference limit (dBm)	Margin (dB)
26.965	53.94	-33.547	-24.57	-8.98
27.205	54.43	-34.176	-24.55	-9.63
27.405	54.82	-33.951	-24.58	-9.37

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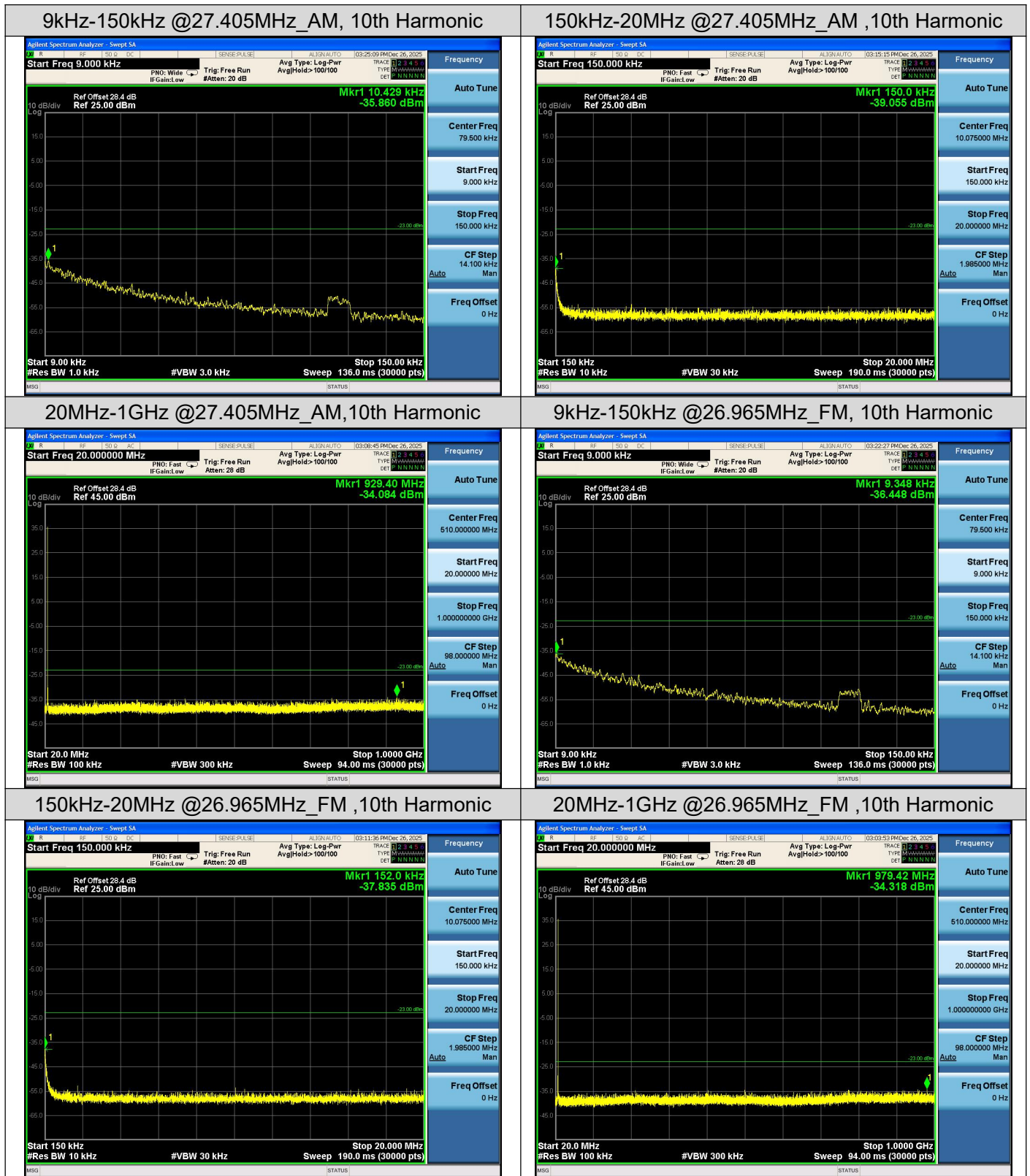
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The spectrum of the unwanted spurious data conducted at the antenna end is as follows:

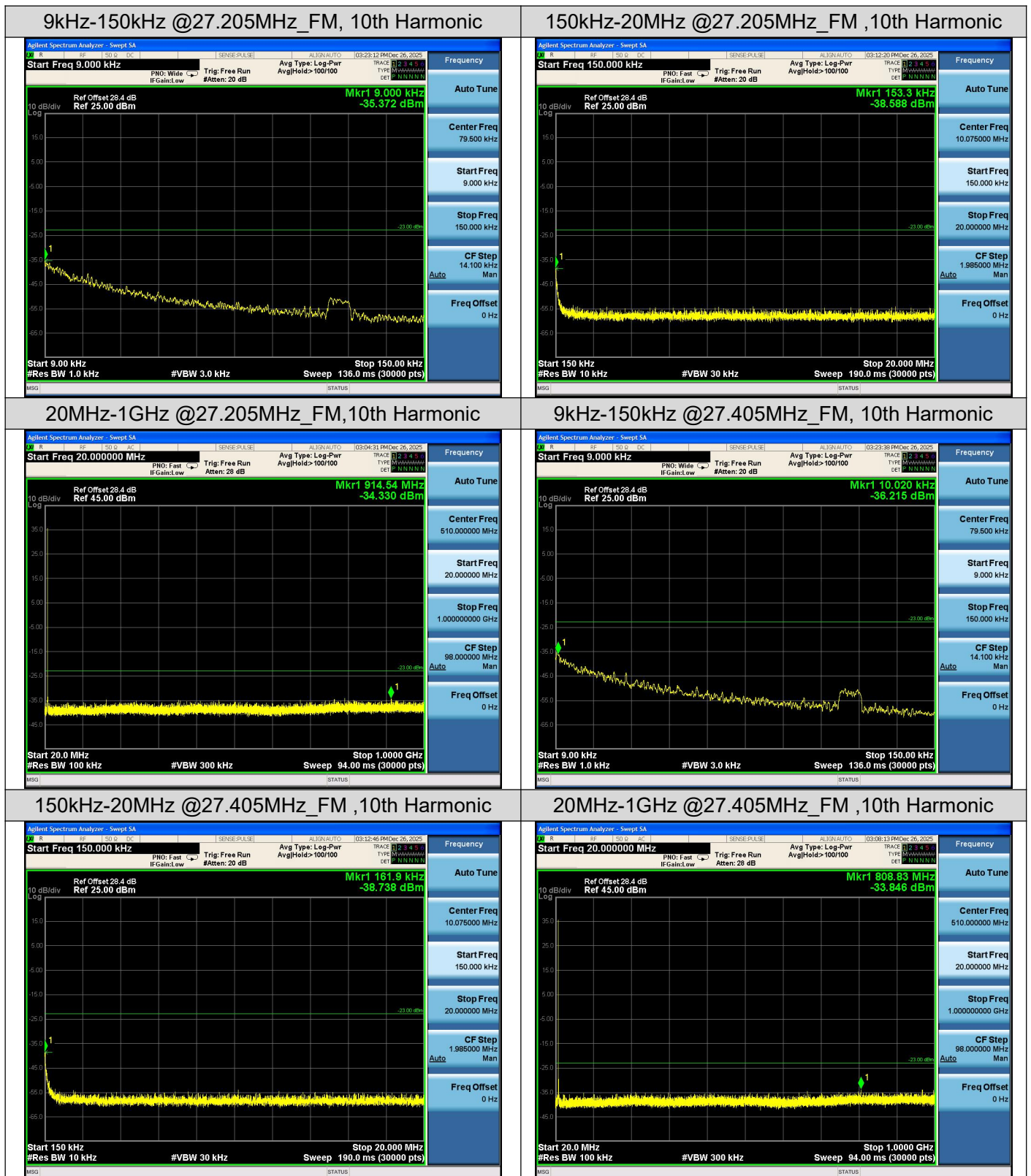
- For DC 12V System:



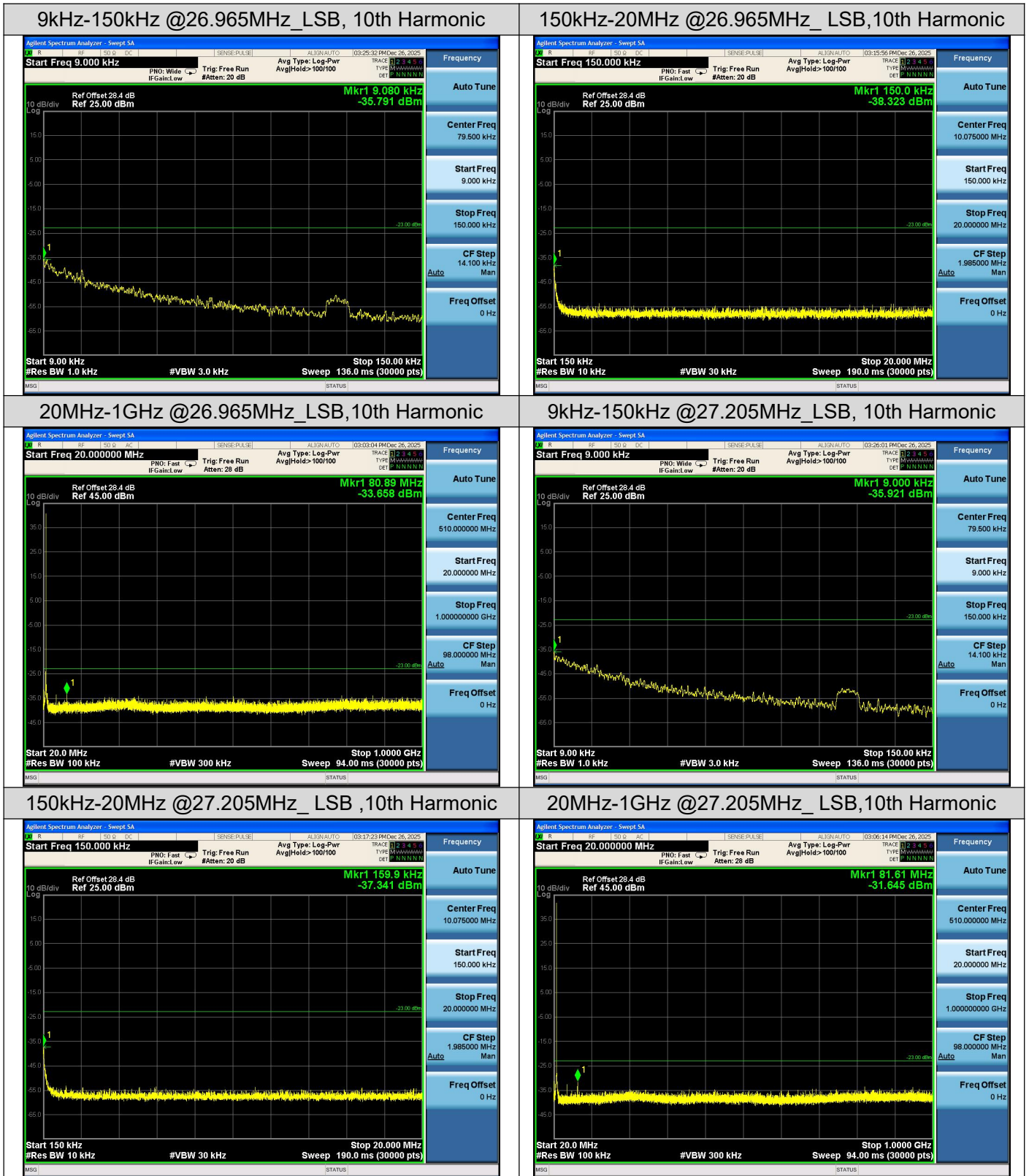
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