

8 Test Setup Photo

Please refer to SZCR2510004390WM Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2510004390WM



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant12

Ant12										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	5955	/	/	1.394	1.435	97.14	0.13	0.00
			6175	/	/	1.393	1.435	97.07	0.13	0.03
			6415	/	/	1.393	1.435	97.07	0.13	0.03
	802.11ax (HEW20)	MIMO	5955	RU242	Left	1.015	1.057	96.03	0.18	0.03
			6175	RU242	Left	1.015	1.057	96.03	0.18	0.03
			6415	RU242	Left	1.015	1.057	96.03	0.18	0.03
	802.11ax (HEW40)	MIMO	5965	RU484	Left	0.536	0.577	92.89	0.32	0.00
			6165	RU484	Left	0.535	0.577	92.72	0.33	0.03
			6405	RU484	Left	0.535	0.577	92.72	0.33	0.03
	802.11ax (HEW80)	MIMO	5985	RU996	Left	0.288	0.331	87.01	0.60	0.09
			6145	RU996	Left	0.289	0.331	87.31	0.59	0.03
			6385	RU996	Left	0.289	0.331	87.31	0.59	0.06

1.1.2 Ant12

Ant12										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	6435	/	/	1.393	1.435	97.07	0.13	0.03
			6475	/	/	1.393	1.435	97.07	0.13	0.03
			6515	/	/	1.393	1.435	97.07	0.13	0.00
	802.11ax (HEW20)	MIMO	6435	RU242	Left	1.015	1.057	96.03	0.18	0.03
			6475	RU242	Left	1.015	1.057	96.03	0.18	0.03
			6515	RU242	Left	1.014	1.056	96.02	0.18	0.04
	802.11ax (HEW40)	MIMO	6445	RU484	Left	0.535	0.577	92.72	0.33	0.00
			6485	RU484	Left	0.536	0.577	92.89	0.32	0.03
	802.11ax	MIMO	6465	RU996	Left	0.289	0.331	87.31	0.59	0.03

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

Page: 125 of 688

(HEW80)										
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1.1.3 Ant12

Ant12										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	6535	/	/	1.393	1.435	97.07	0.13	0.03
			6695	/	/	1.393	1.435	97.07	0.13	0.03
			6855	/	/	1.393	1.435	97.07	0.13	0.00
	802.11ax (HEW20)	MIMO	6535	RU242	Left	1.015	1.057	96.03	0.18	0.04
			6695	RU242	Left	1.015	1.057	96.03	0.18	0.03
			6855	RU242	Left	1.015	1.057	96.03	0.18	0.03
	802.11ax (HEW40)	MIMO	6565	RU484	Left	0.535	0.577	92.72	0.33	0.00
			6685	RU484	Left	0.536	0.577	92.89	0.32	0.00
			6845	RU484	Left	0.536	0.577	92.89	0.32	0.00
	802.11ax (HEW80)	MIMO	6625	RU996	Left	0.289	0.331	87.31	0.59	0.00
			6705	RU996	Left	0.289	0.331	87.31	0.59	0.03
			6785	RU996	Left	0.288	0.331	87.01	0.60	0.06

1.1.4 Ant12

Ant12										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	6895	/	/	1.393	1.435	97.07	0.13	0.03
			6995	/	/	1.393	1.435	97.07	0.13	0.03
			7095	/	/	1.393	1.436	97.01	0.13	0.07
	802.11ax (HEW20)	MIMO	6895	RU242	Left	1.014	1.057	95.93	0.18	0.03
			6995	RU242	Left	1.015	1.057	96.03	0.18	0.03
			7095	RU242	Left	1.014	1.057	95.93	0.18	0.03
	802.11ax (HEW40)	MIMO	6925	RU484	Left	0.535	0.577	92.72	0.33	0.00
			7005	RU484	Left	0.535	0.577	92.72	0.33	0.03
			7085	RU484	Left	0.535	0.577	92.72	0.33	0.00
	802.11ax (HEW80)	MIMO	6945	RU996	Left	0.289	0.331	87.31	0.59	0.03
			7025	RU996	Left	0.289	0.331	87.31	0.59	0.00

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

Page: 126 of 688

1.1.5 Ant12

Ant12										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	6875	/	/	1.393	1.436	97.01	0.13	0.03
	802.11ax (HEW20)	MIMO	6875	RU242	Left	1.015	1.057	96.03	0.18	0.03
	802.11ax (HEW40)	MIMO	6885	RU484	Left	0.535	0.577	92.72	0.33	0.00
	802.11ax (HEW80)	MIMO	6865	RU996	Left	0.289	0.331	87.31	0.59	0.06

1.1.6 Ant12

Ant12										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	0.536	0.577	92.89	0.32	0.03
	802.11ax (HEW80)	MIMO	6545	RU996	Left	0.289	0.331	87.31	0.59	0.03



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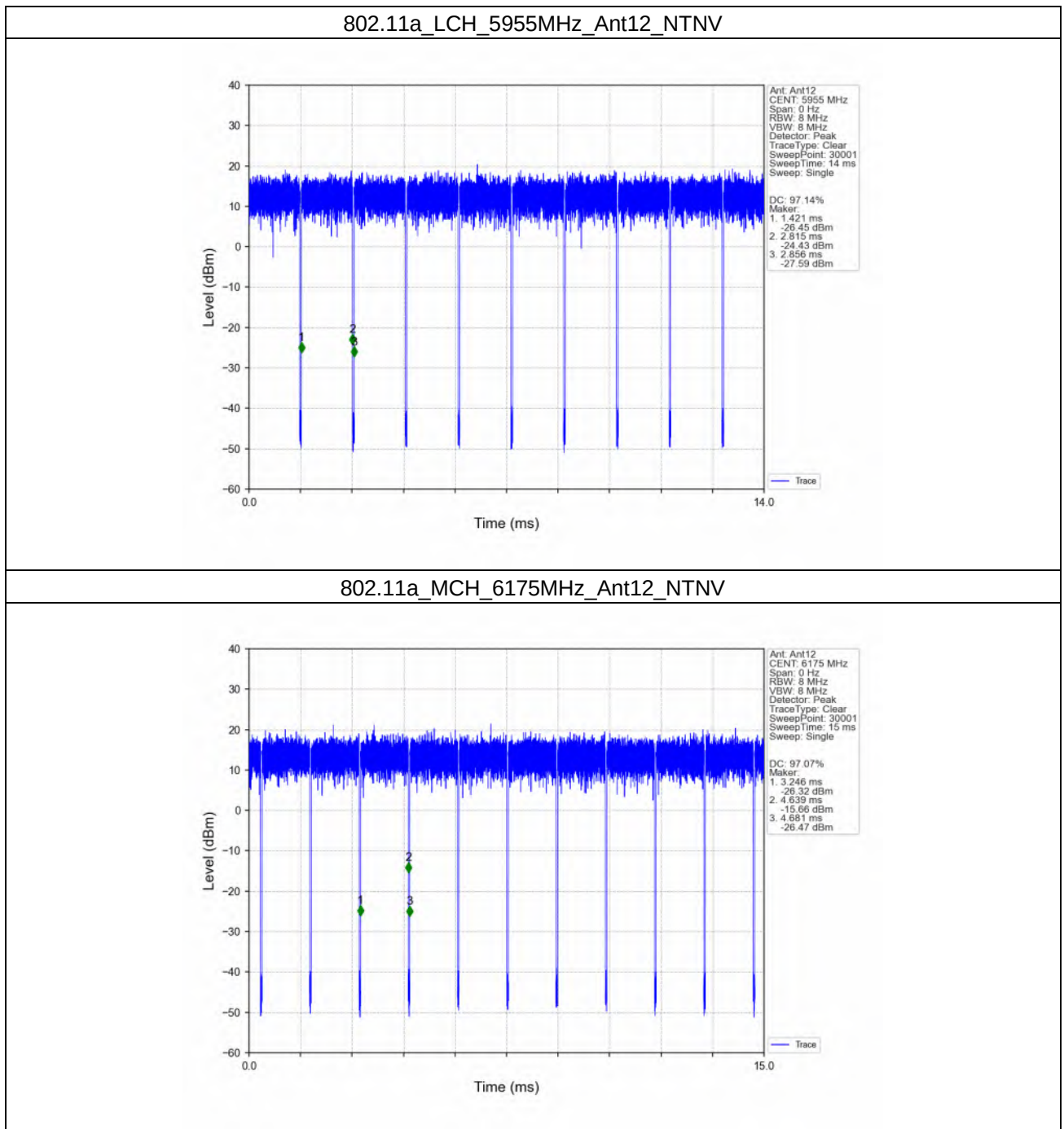
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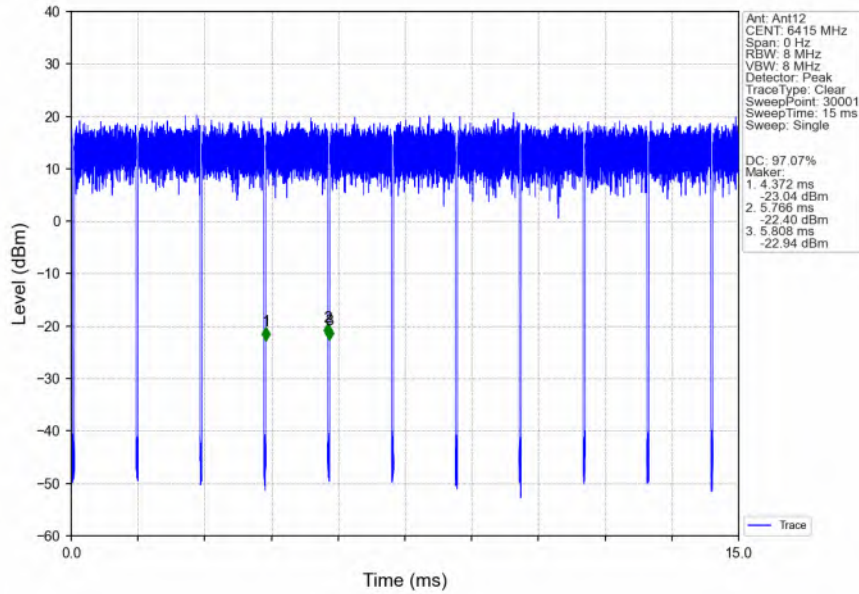
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1.2 Test Graph

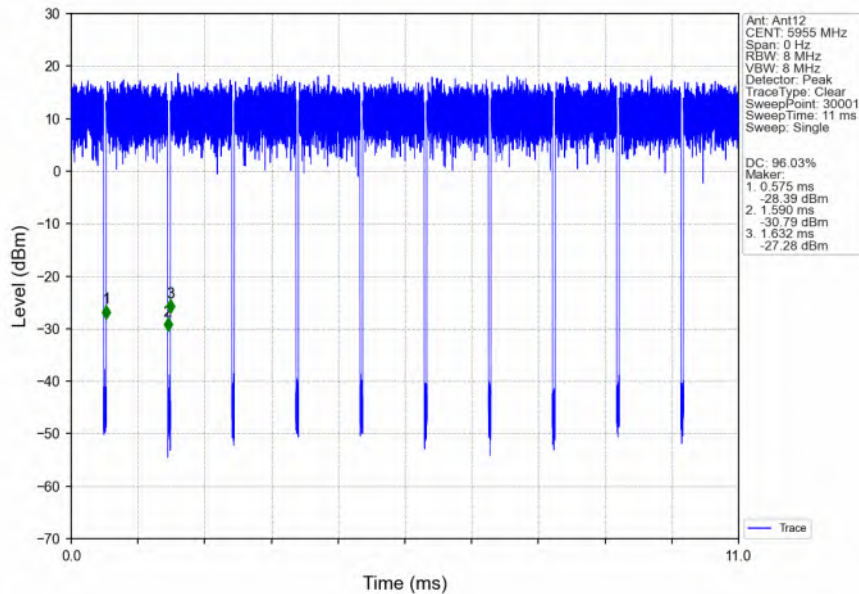
1.2.1 Ant12



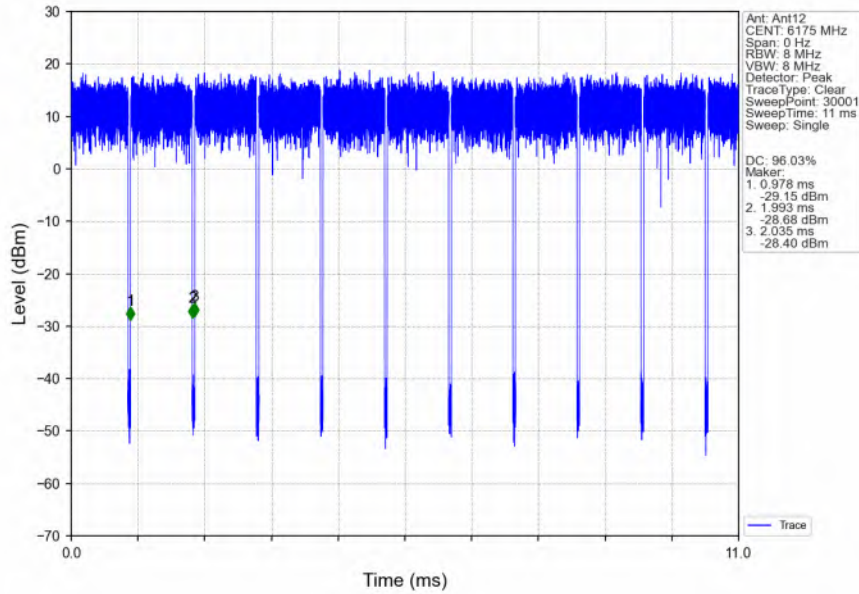
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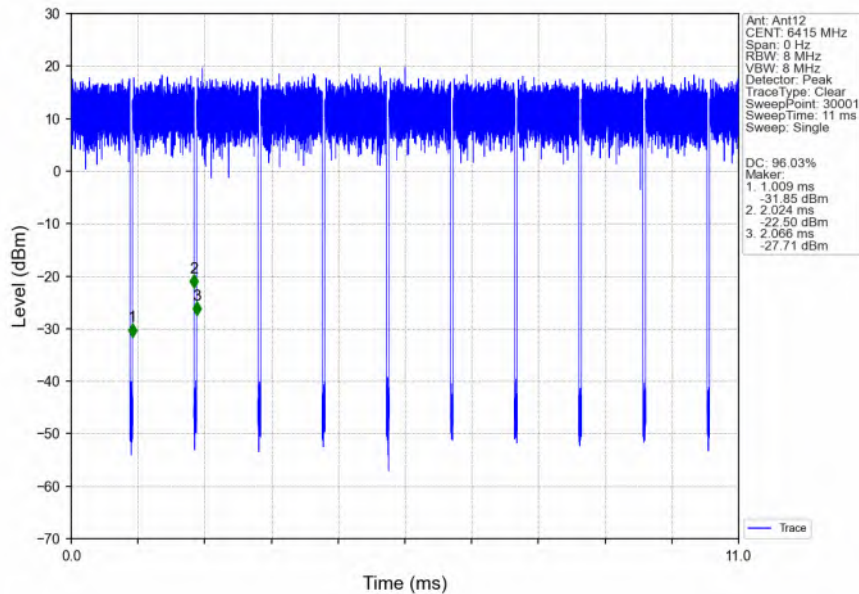
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802.11ax(HEW20)_MCH_6175MHz_RU242_Left_Ant12_NTNV



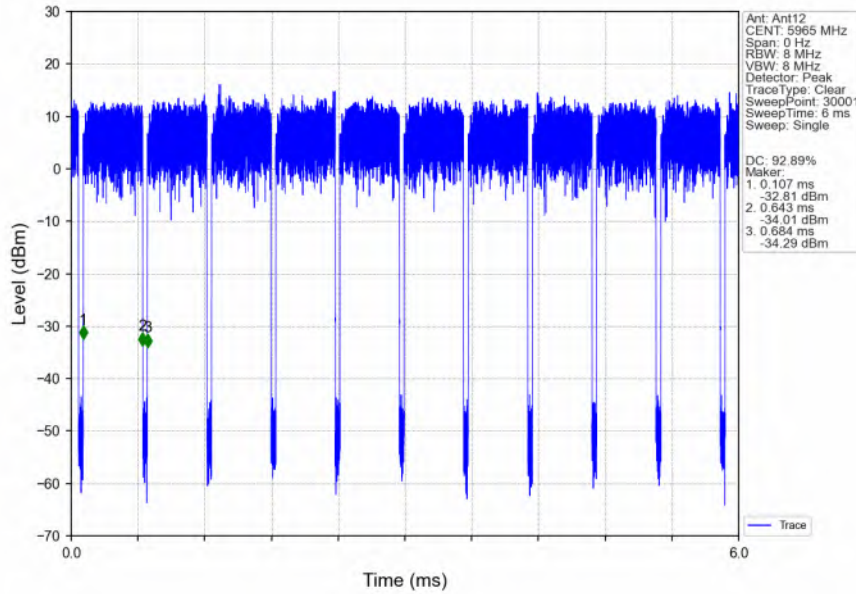
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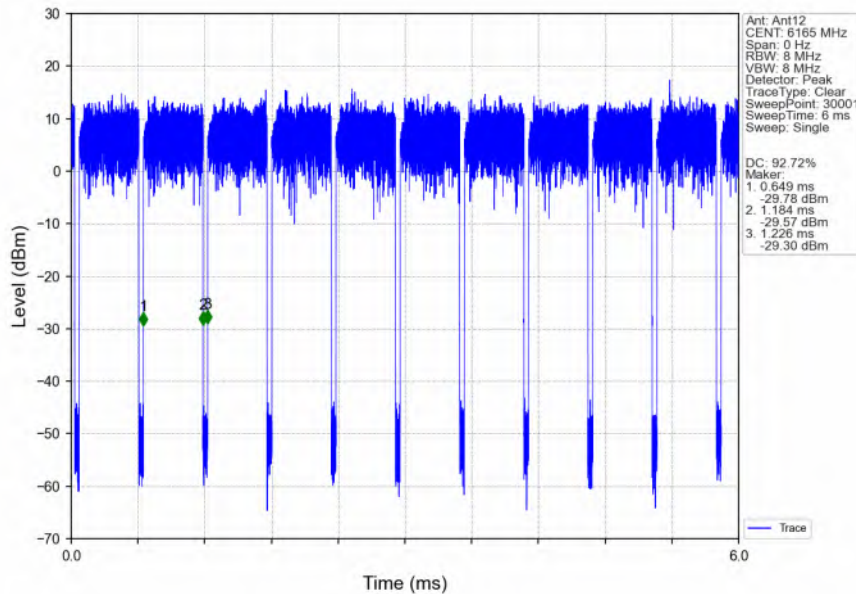
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802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant12_NTNV



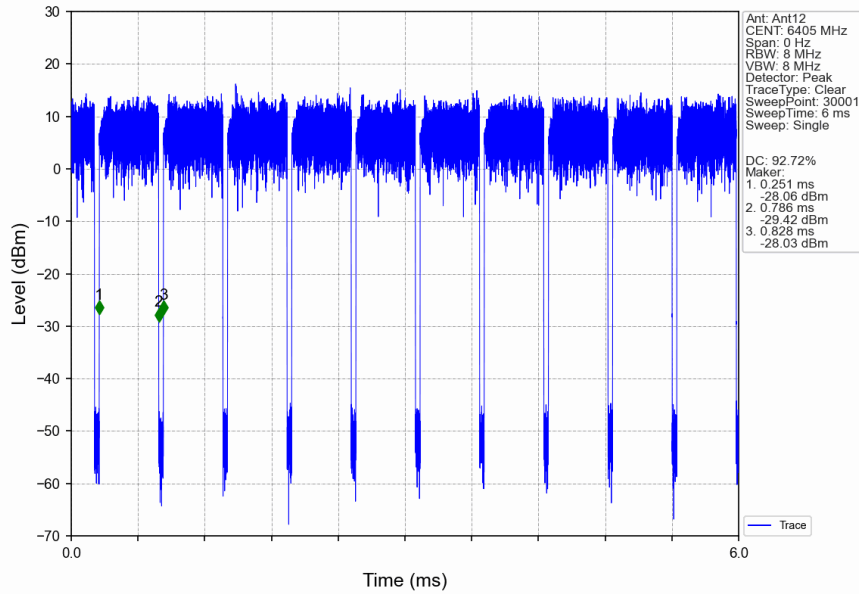
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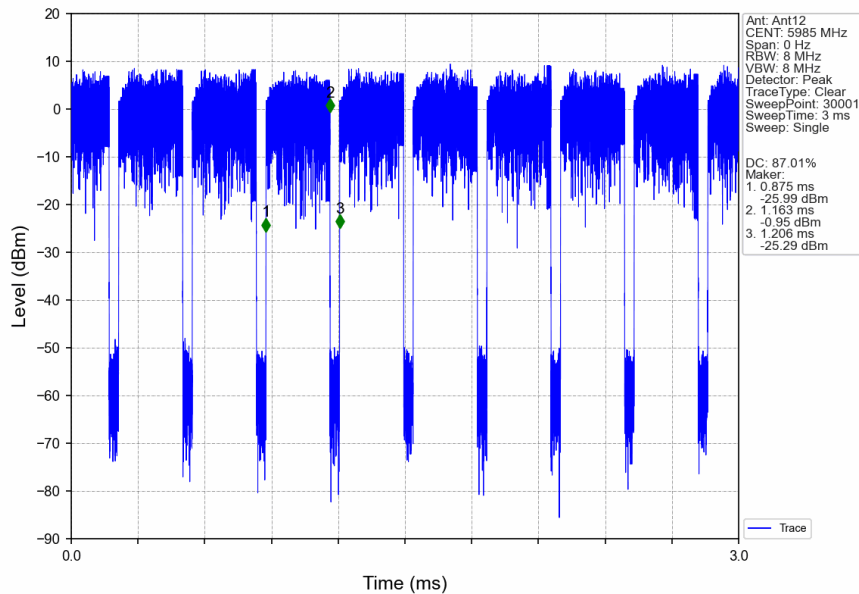
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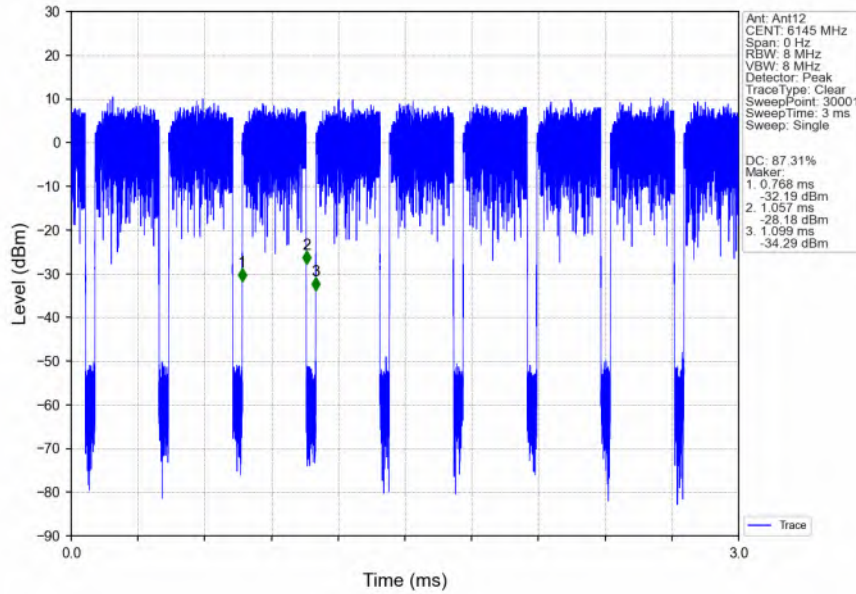
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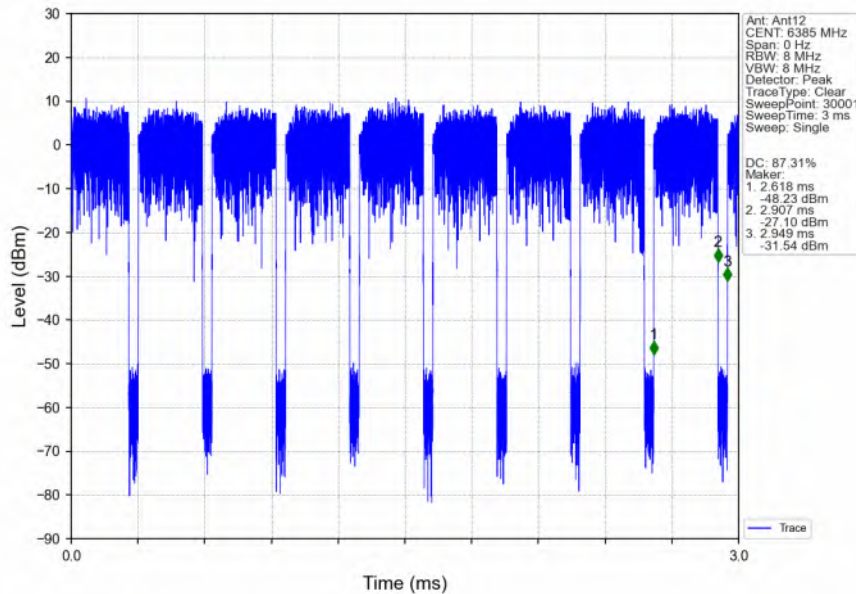
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802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant12_NTNV

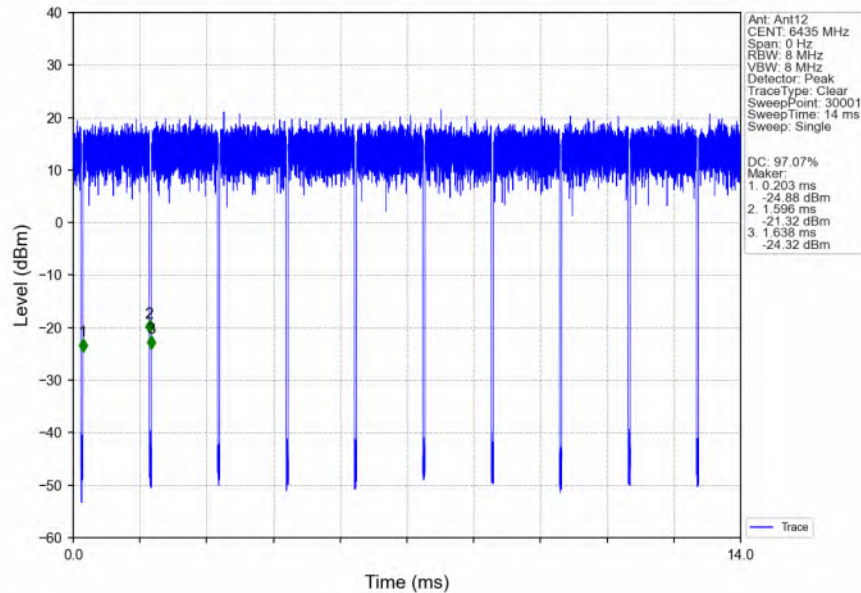


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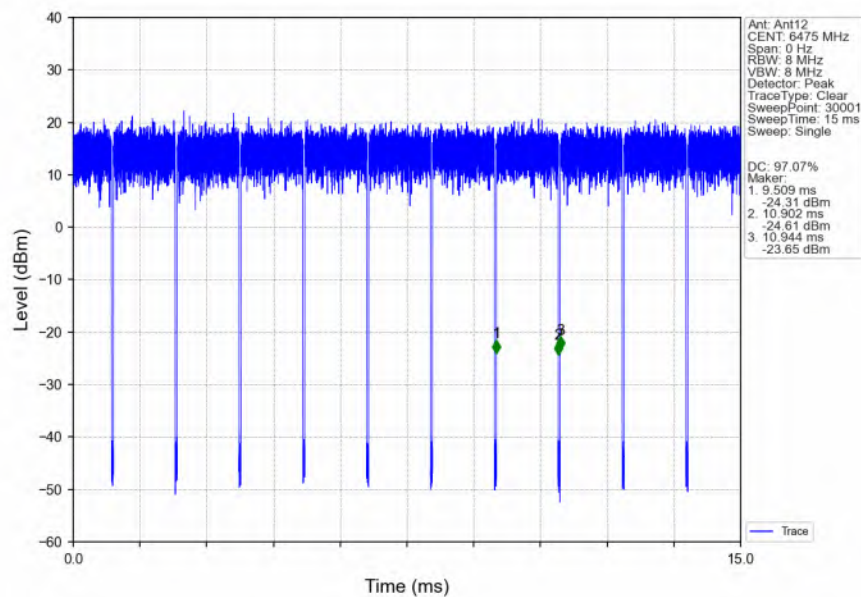


1.2.2 Ant12

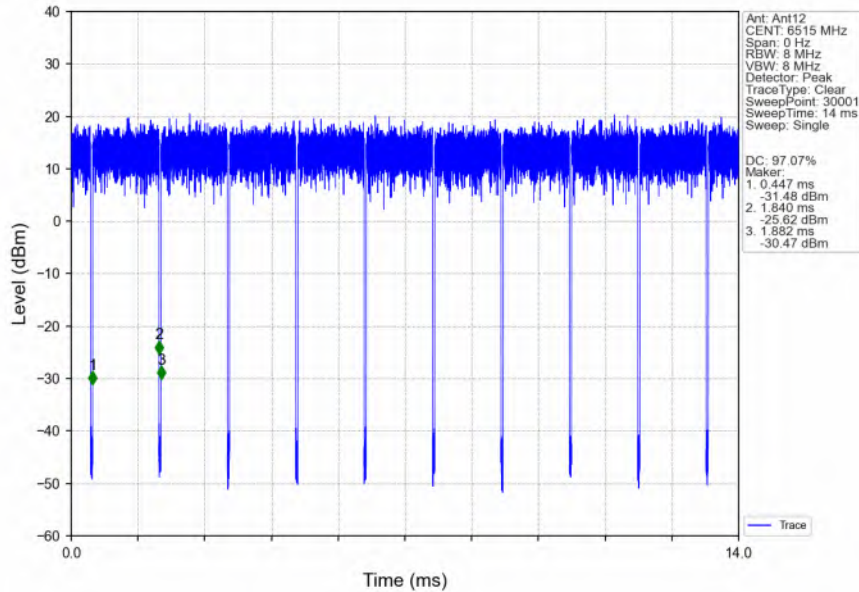
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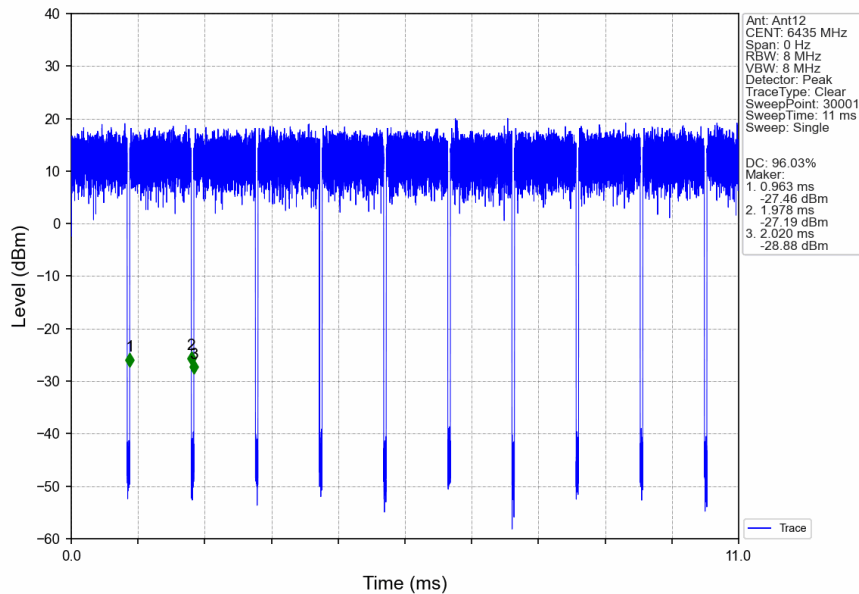
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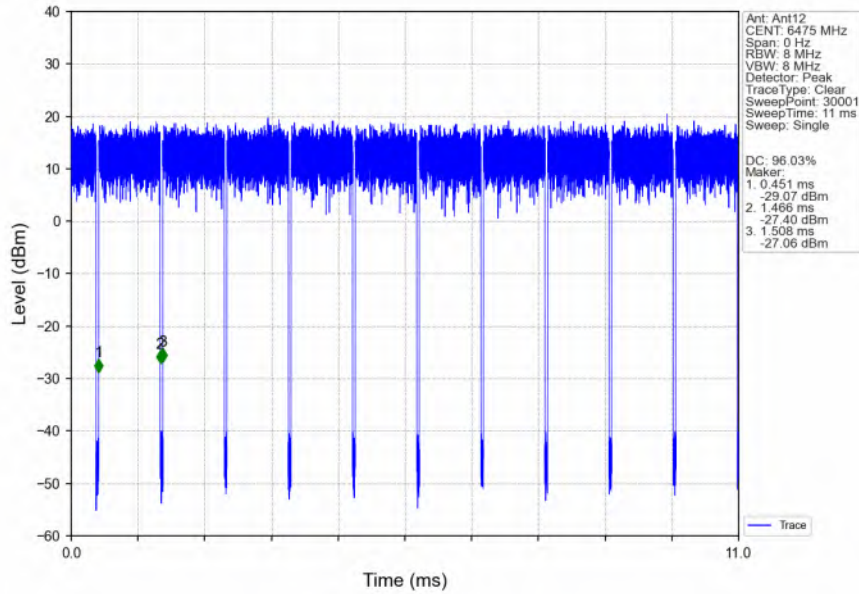
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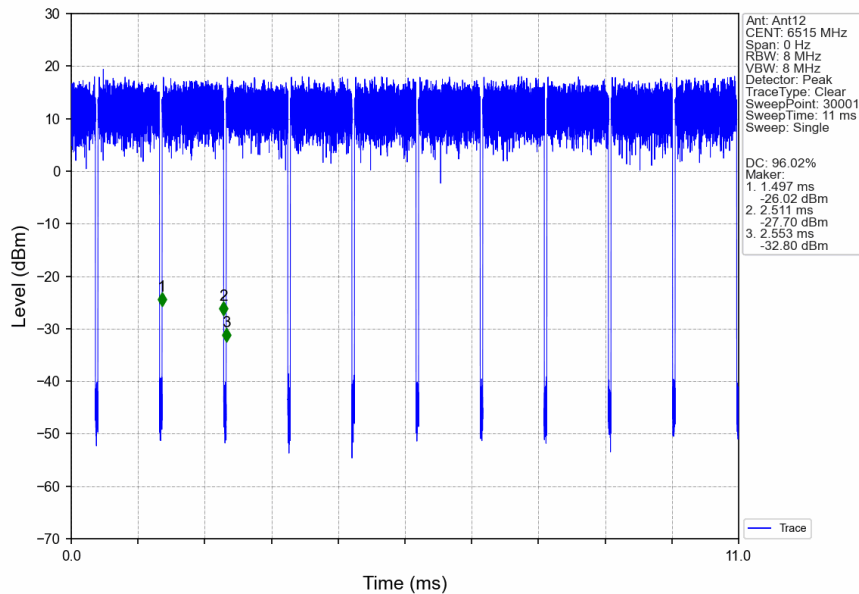
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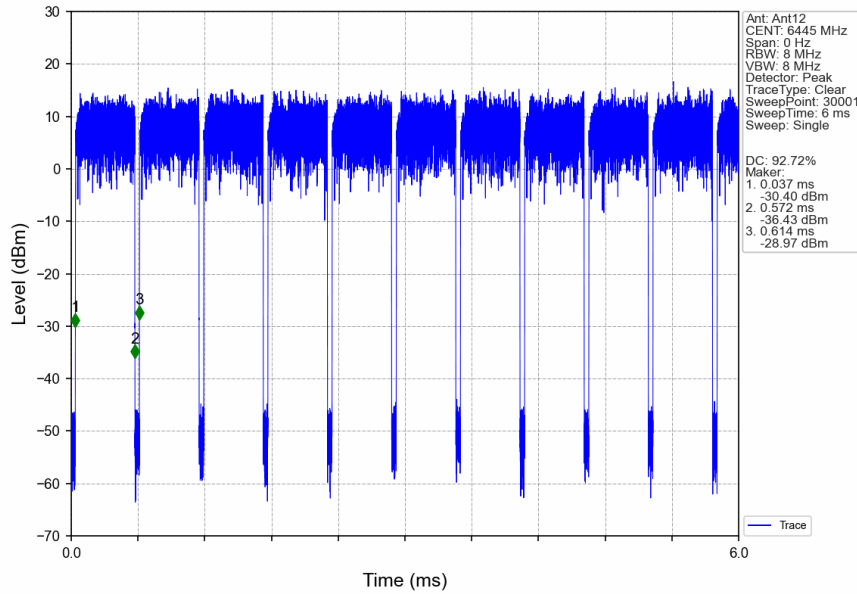
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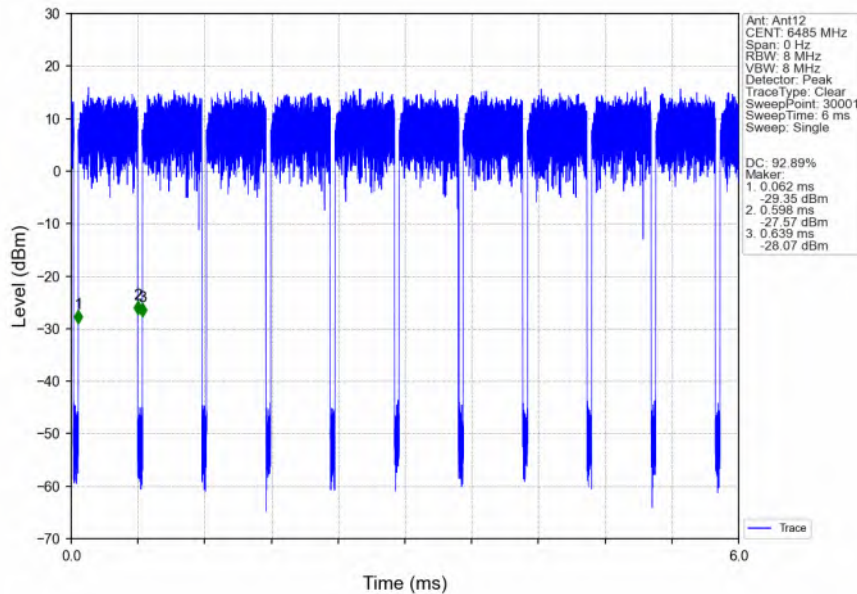
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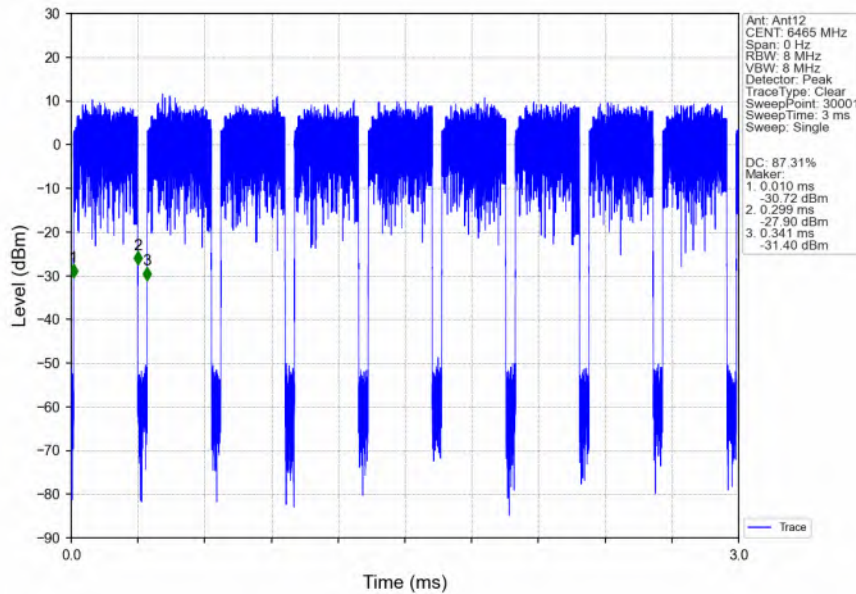
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802.11ax(HEW40)_MCH_6485MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW80)_LCH_6465MHz_RU996_Left_Ant12_NTNV

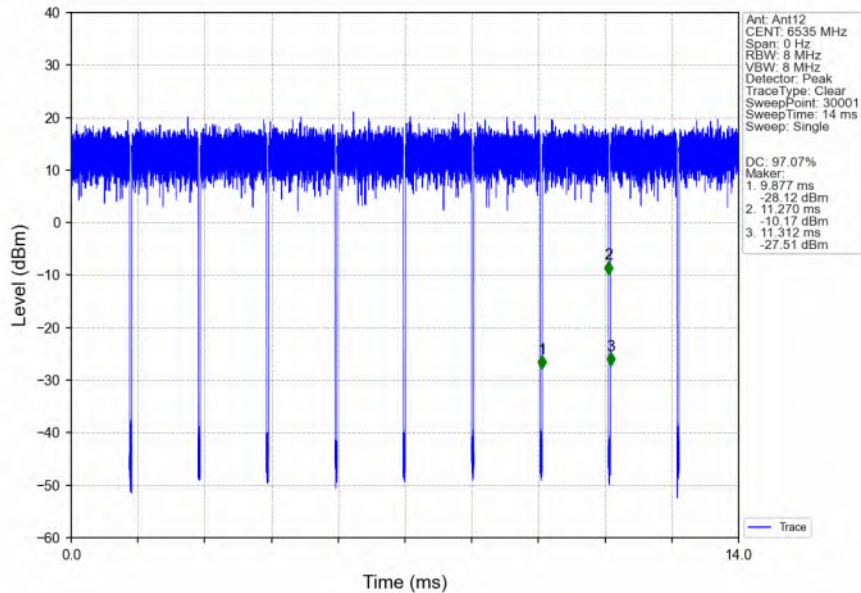


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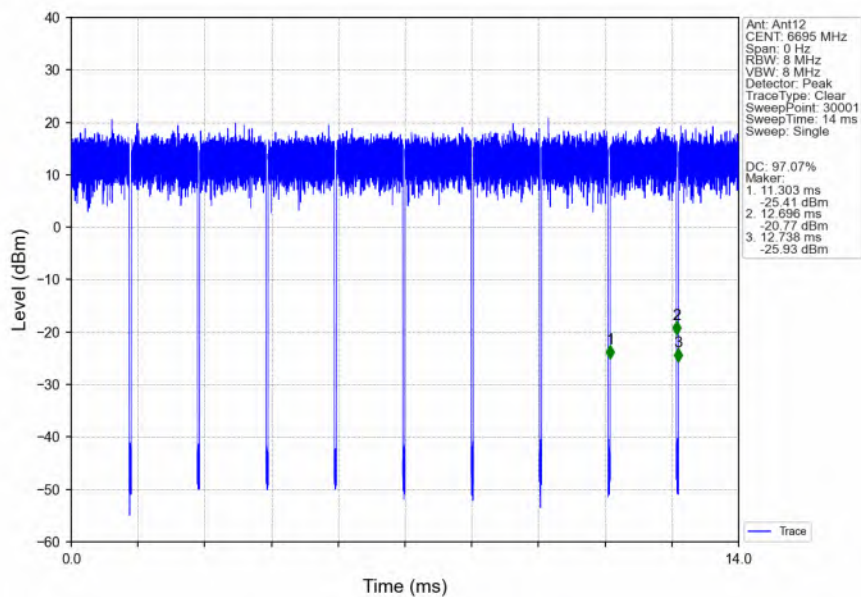
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1.2.3 Ant12

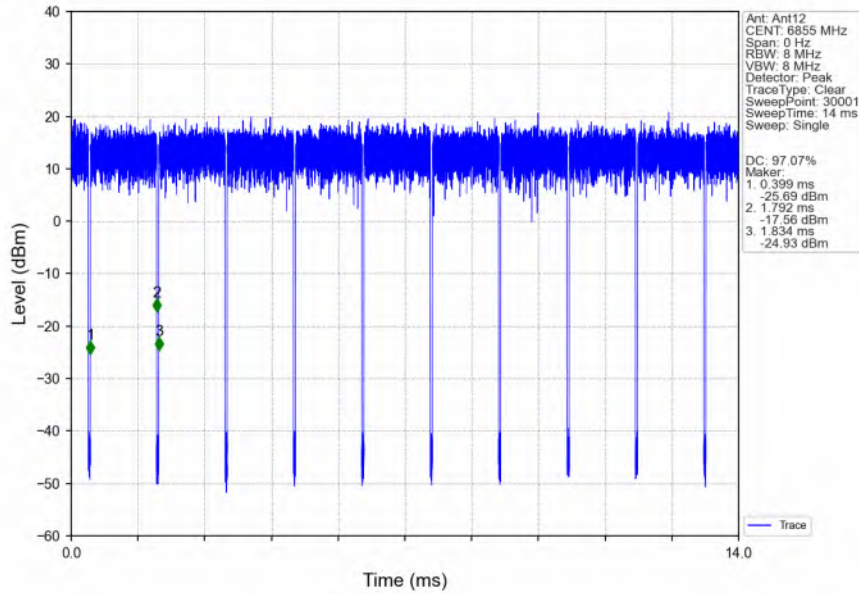
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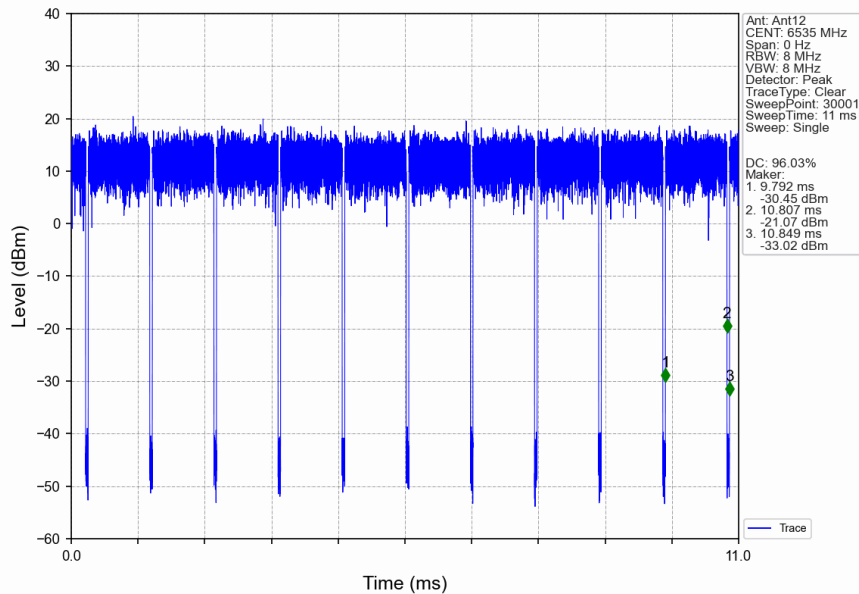
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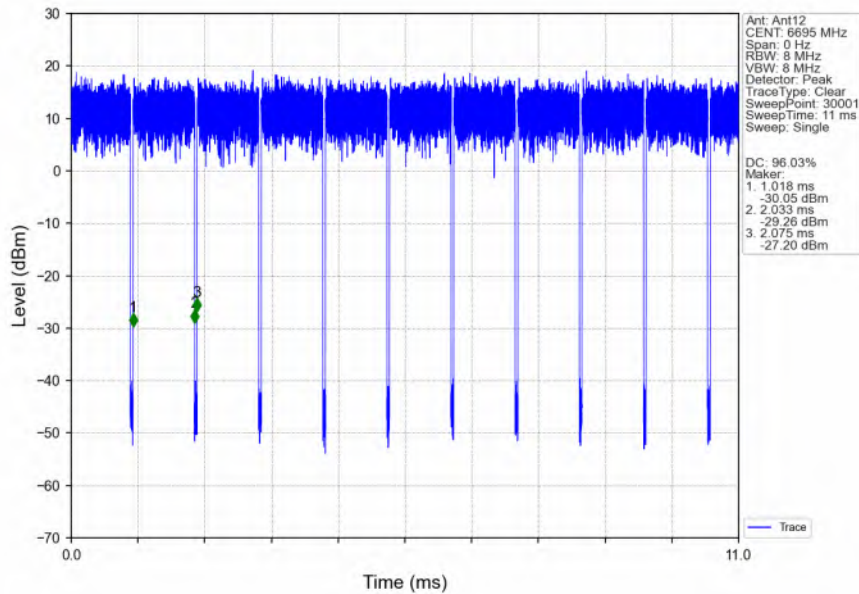
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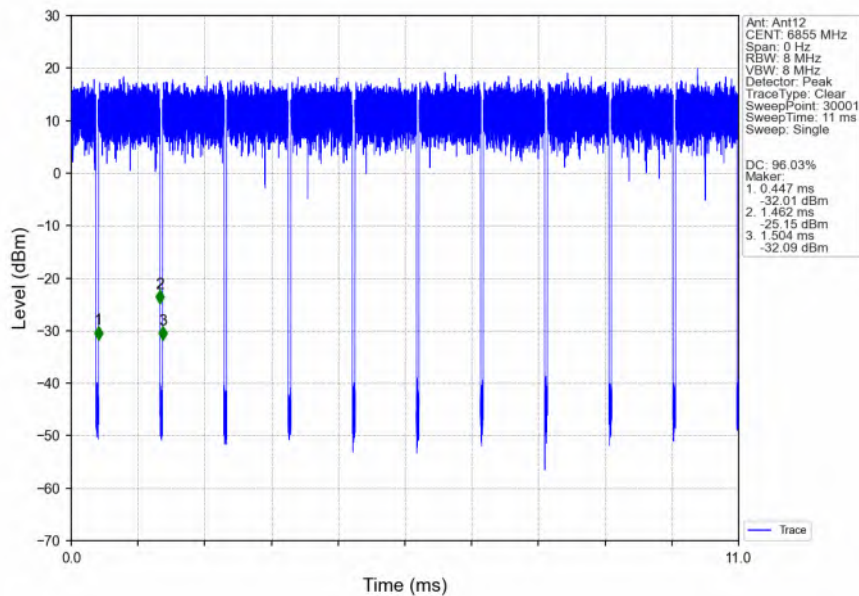
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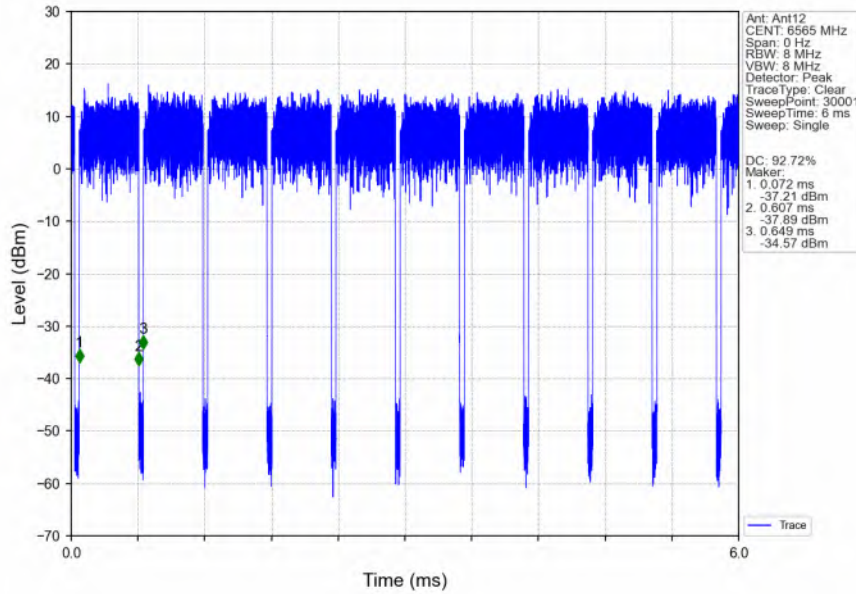
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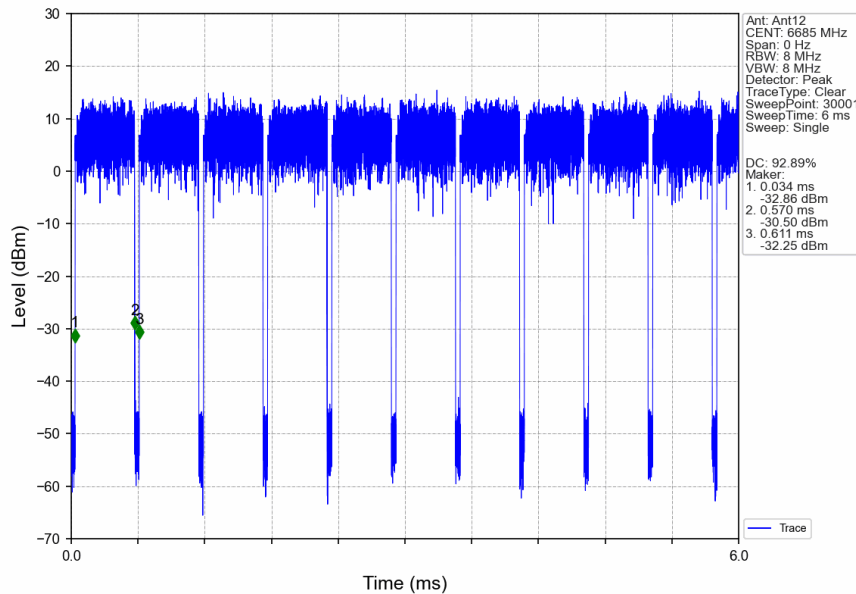
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802.11ax(HEW40)_LCH_6565MHz_RU484_Left_Ant12_NTNV



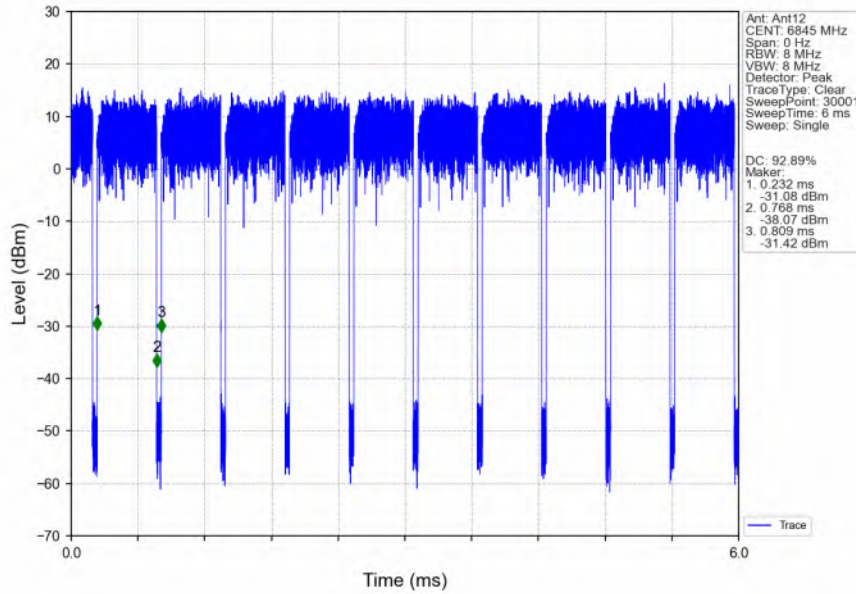
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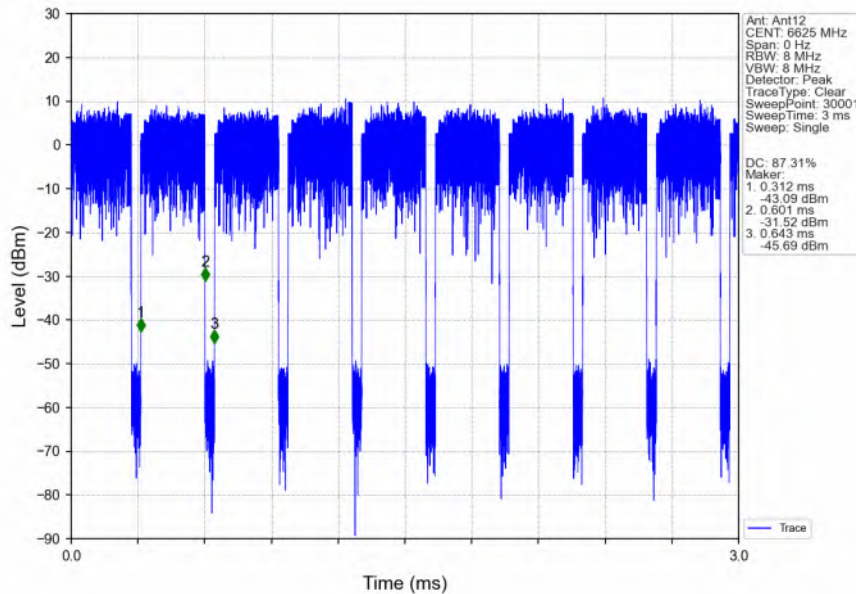
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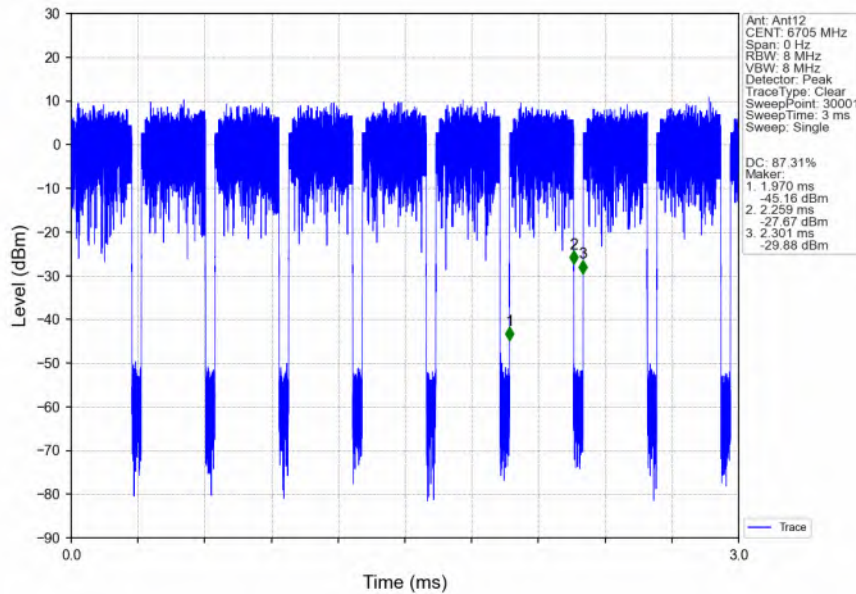
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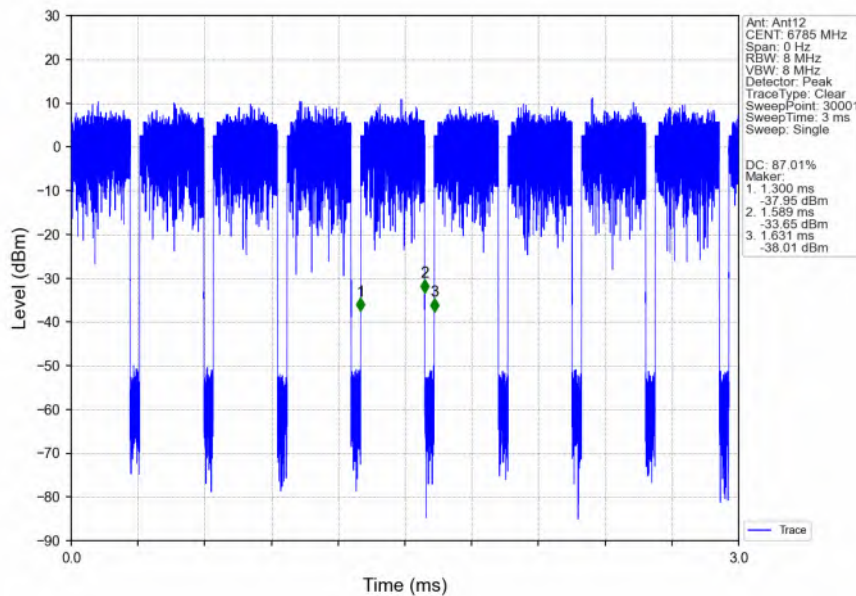
802.11ax(HEW80)_LCH_6625MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW80)_MCH_6705MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW80)_HCH_6785MHz_RU996_Left_Ant12_NTNV



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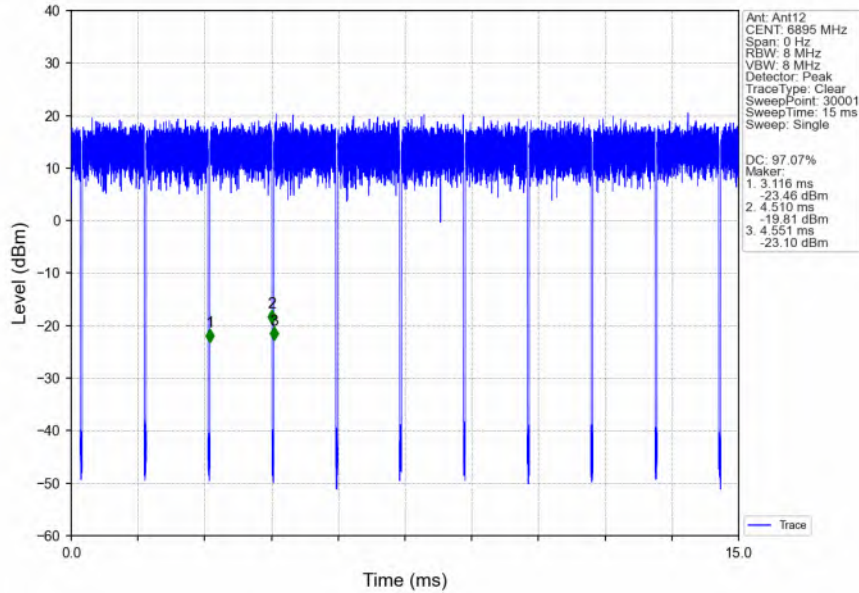
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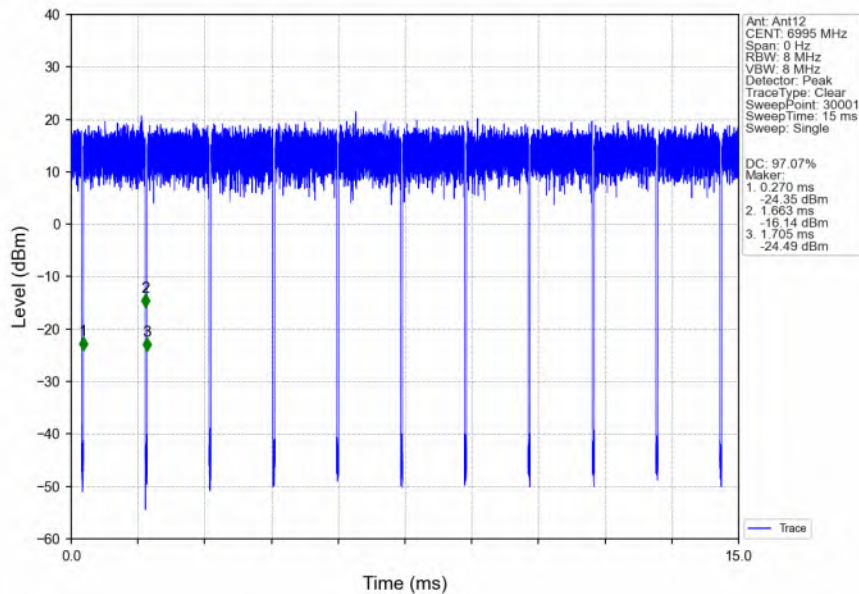
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.2.4 Ant12

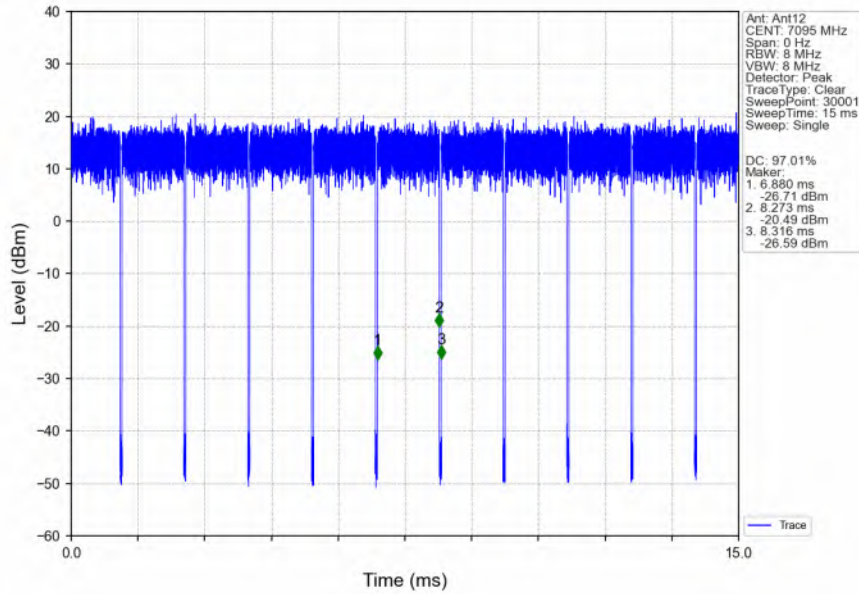
802.11a_LCH_6895MHz_Ant12_NTNV



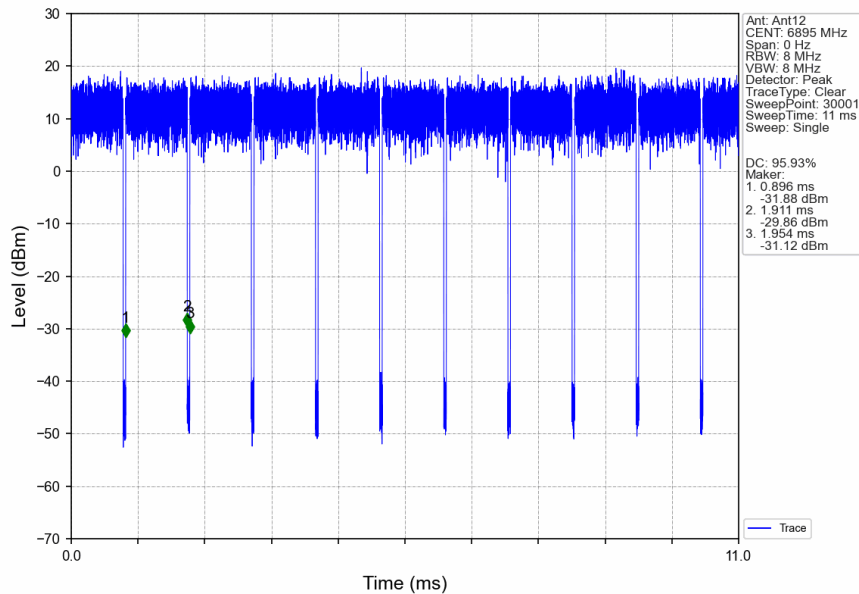
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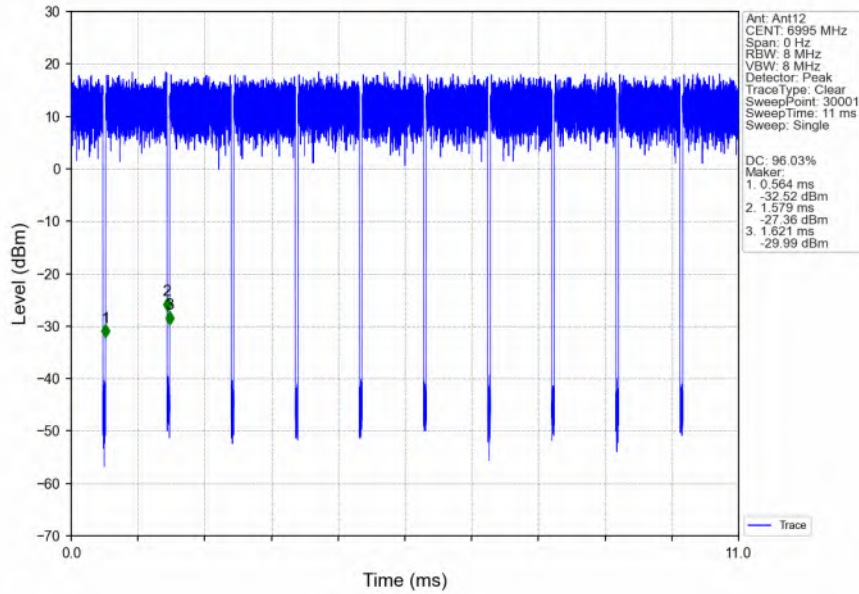
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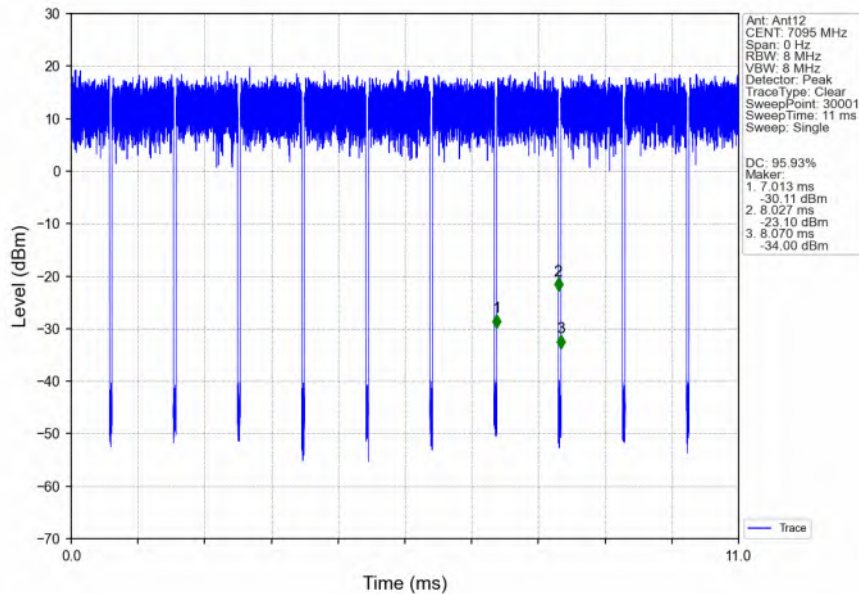
802.11ax(HEW20)_LCH_6895MHz_RU242_Left_Ant12_NTNV



802.11ax(HEW20)_MCH_6995MHz_RU242_Left_Ant12_NTNV



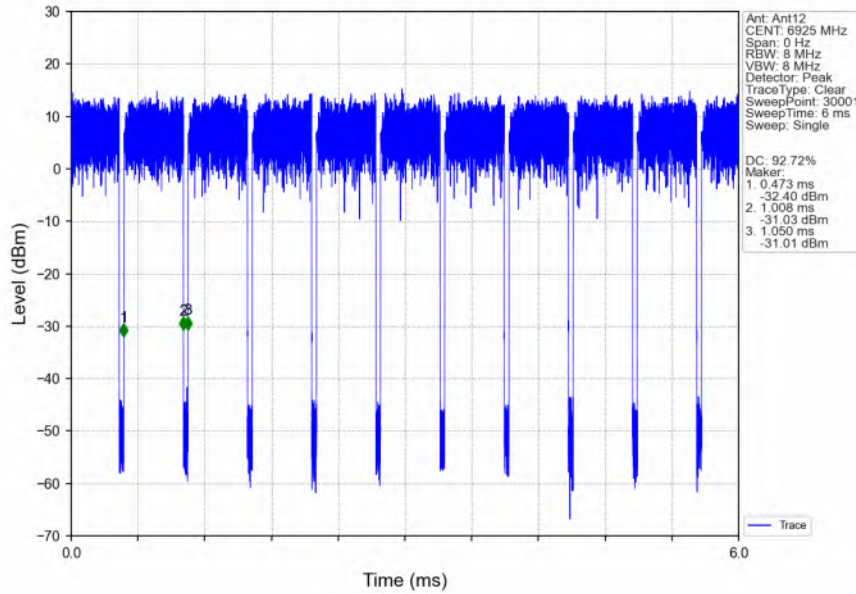
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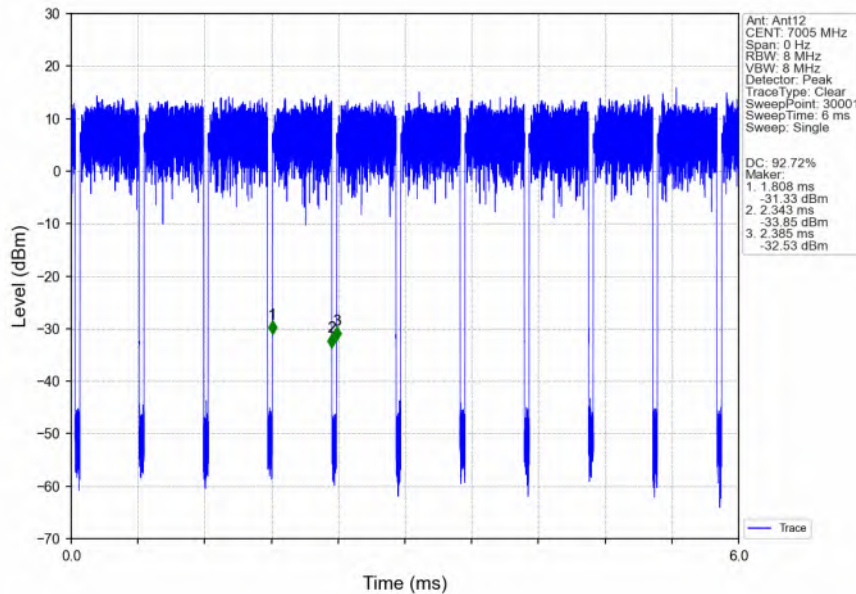
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802.11ax(HEW40)_LCH_6925MHz_RU484_Left_Ant12_NTNV



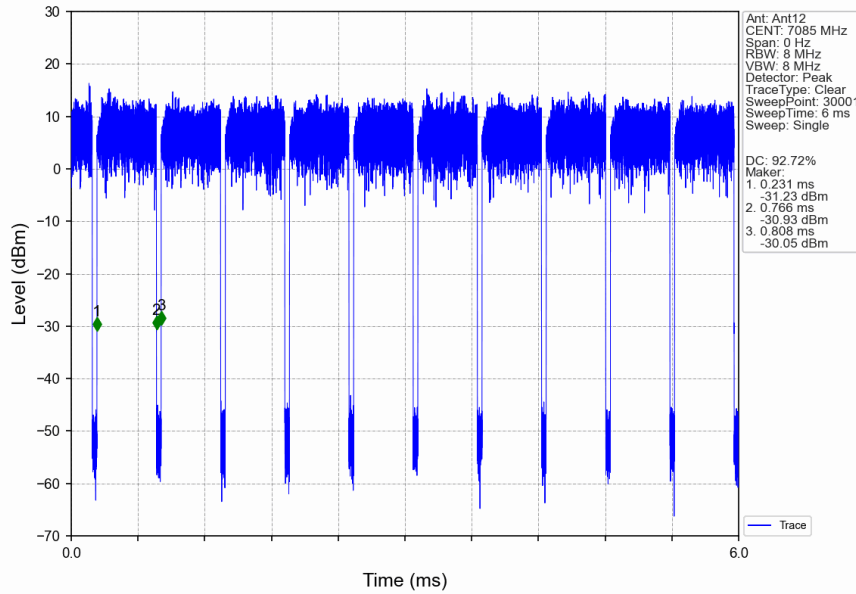
802.11ax(HEW40)_MCH_7005MHz_RU484_Left_Ant12_NTNV



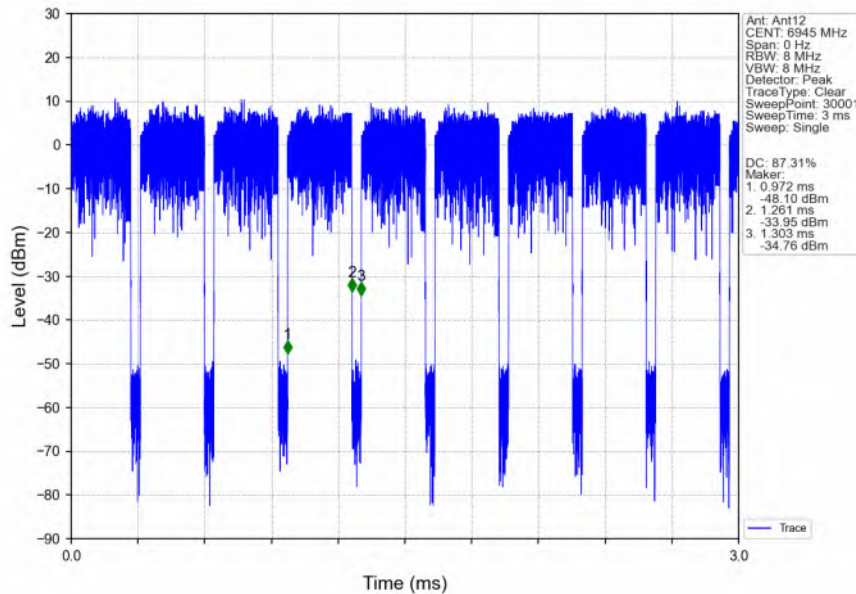
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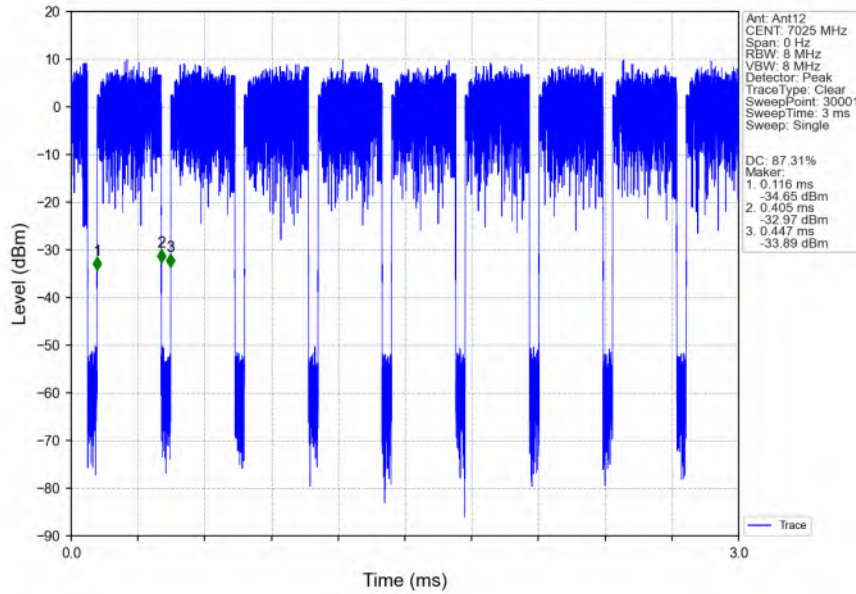
802.11ax(HEW40)_HCH_7085MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW80)_LCH_6945MHz_RU996_Left_Ant12_NTNV

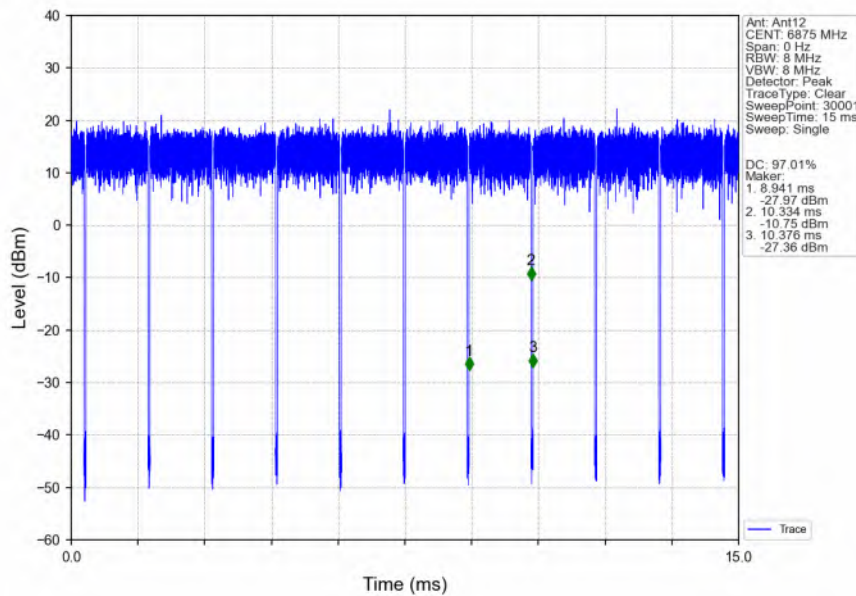


802.11ax(HEW80)_HCH_7025MHz_RU996_Left_Ant12_NTNV

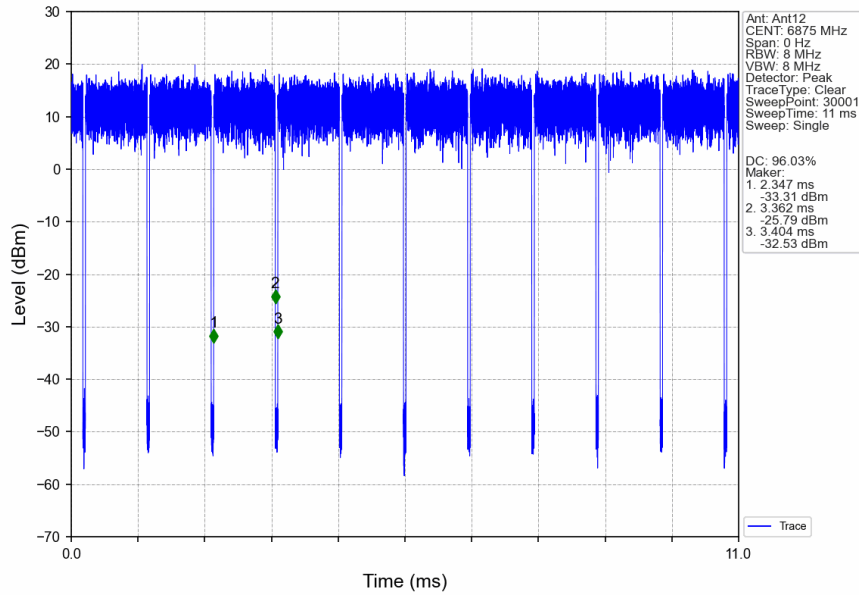


1.2.5 Ant12

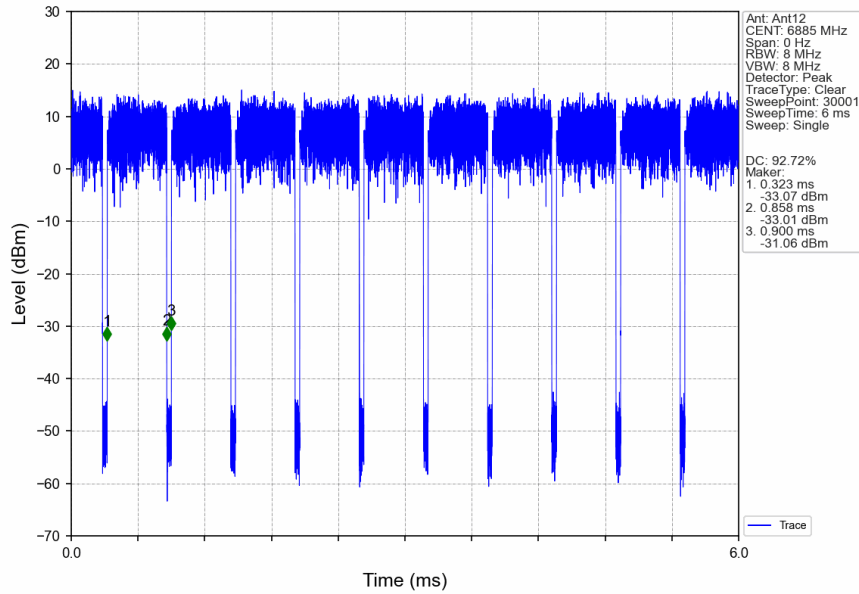
802.11a_HCH_6875MHz_Ant12_NTNV



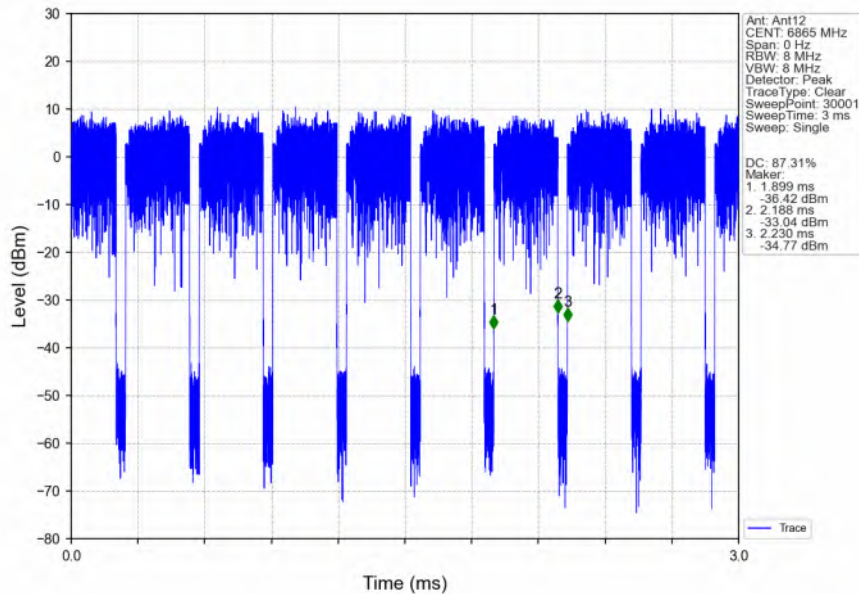
802.11ax(HEW20)_HCH_6875MHz_RU242_Left_Ant12_NTNV



802.11ax(HEW40)_HCH_6885MHz_RU484_Left_Ant12_NTNV

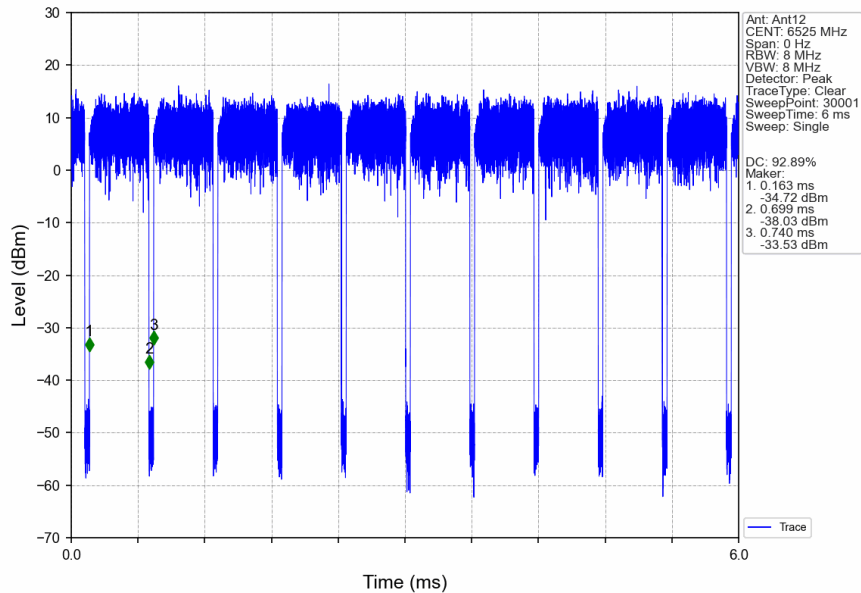


802.11ax(HEW80)_HCH_6865MHz_RU996_Left_Ant12_NTNV

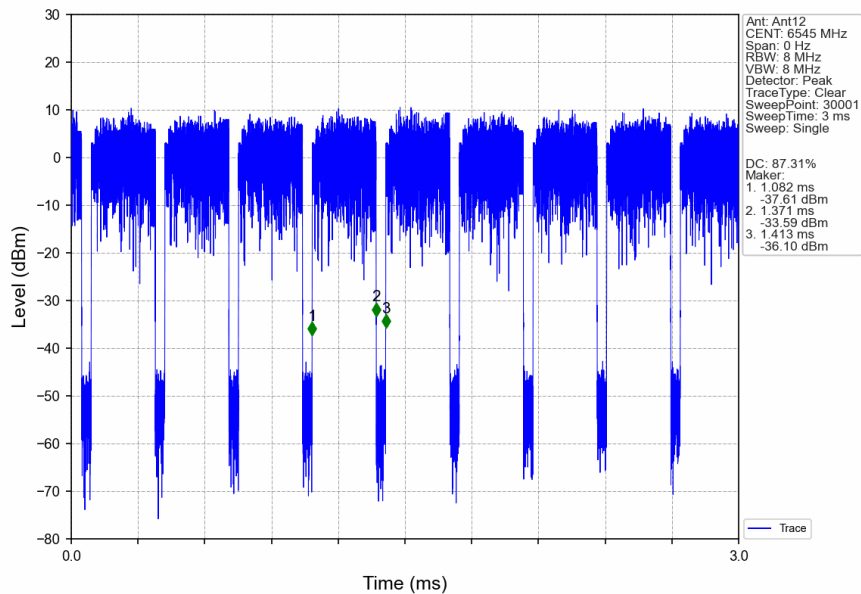


1.2.6 Ant12

802.11ax(HEW40)_HCH_6525MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW80)_HCH_6545MHz_RU996_Left_Ant12_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	5955	/	/	12	17.194	<=320	Pass
			6175	/	/	12	17.066	<=320	Pass
			6415	/	/	12	17.194	<=320	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	12	19.073	<=320	Pass
			6175	RU242	Left	12	19.085	<=320	Pass
			6415	RU242	Left	12	19.120	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	12	37.639	<=320	Pass
			6165	RU484	Left	12	37.816	<=320	Pass
			6405	RU484	Left	12	37.782	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	12	77.885	<=320	Pass
			6145	RU996	Left	12	78.123	<=320	Pass
			6385	RU996	Left	12	77.743	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	5955	/	/	12	20.055	/	Pass
			6175	/	/	12	20.243	/	Pass
			6415	/	/	12	19.990	/	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	12	21.581	/	Pass
			6175	RU242	Left	12	21.246	/	Pass
			6415	RU242	Left	12	21.785	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	12	39.632	/	Pass
			6165	RU484	Left	12	39.529	/	Pass
			6405	RU484	Left	12	39.506	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	12	80.296	/	Pass
			6145	RU996	Left	12	80.381	/	Pass
			6385	RU996	Left	12	80.415	/	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

Page: 154 of 688

2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6435	/	/	12	17.116	<=320	Pass
			6475	/	/	12	17.131	<=320	Pass
			6515	/	/	12	17.112	<=320	Pass
	802.11ax (HEW20)	MIMO	6435	RU242	Left	12	19.051	<=320	Pass
			6475	RU242	Left	12	19.122	<=320	Pass
			6515	RU242	Left	12	19.025	<=320	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	12	37.627	<=320	Pass
			6485	RU484	Left	12	37.714	<=320	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	12	77.955	<=320	Pass

2.1.4 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6435	/	/	12	19.881	/	Pass
			6475	/	/	12	20.183	/	Pass
			6515	/	/	12	20.479	/	Pass
	802.11ax (HEW20)	MIMO	6435	RU242	Left	12	21.382	/	Pass
			6475	RU242	Left	12	21.597	/	Pass
			6515	RU242	Left	12	21.087	/	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	12	39.474	/	Pass
			6485	RU484	Left	12	39.418	/	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	12	80.445	/	Pass

2.1.5 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6535	/	/	12	17.121	<=320	Pass
			6695	/	/	12	17.095	<=320	Pass
			6855	/	/	12	17.019	<=320	Pass
	802.11ax (HEW20)	MIMO	6535	RU242	Left	12	19.124	<=320	Pass
			6695	RU242	Left	12	19.037	<=320	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

Page: 155 of 688

			6855	RU242	Left	12	19.085	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	12	37.720	<=320	Pass
			6685	RU484	Left	12	37.683	<=320	Pass
			6845	RU484	Left	12	37.761	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	12	77.916	<=320	Pass
			6705	RU996	Left	12	77.829	<=320	Pass
			6785	RU996	Left	12	77.969	<=320	Pass

2.1.6 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6535	/	/	12	20.277	/	Pass
			6695	/	/	12	20.312	/	Pass
			6855	/	/	12	20.291	/	Pass
	802.11ax (HEW20)	MIMO	6535	RU242	Left	12	21.491	/	Pass
			6695	RU242	Left	12	21.737	/	Pass
			6855	RU242	Left	12	21.505	/	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	12	39.653	/	Pass
			6685	RU484	Left	12	39.567	/	Pass
			6845	RU484	Left	12	39.367	/	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	12	80.506	/	Pass
			6705	RU996	Left	12	80.419	/	Pass
			6785	RU996	Left	12	80.548	/	Pass

2.1.7 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6895	/	/	12	17.200	<=320	Pass
			6995	/	/	12	17.131	<=320	Pass
			7095	/	/	12	17.088	<=320	Pass
	802.11ax (HEW20)	MIMO	6895	RU242	Left	12	19.125	<=320	Pass
			6995	RU242	Left	12	19.005	<=320	Pass
			7095	RU242	Left	12	19.082	<=320	Pass
	802.11ax (HEW40)	MIMO	6925	RU484	Left	12	37.671	<=320	Pass
			7005	RU484	Left	12	37.756	<=320	Pass
			7085	RU484	Left	12	37.685	<=320	Pass
	802.11ax (HEW80)	MIMO	6945	RU996	Left	12	77.912	<=320	Pass
			7025	RU996	Left	12	77.781	<=320	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

Page: 156 of 688

2.1.8 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6895	/	/	12	20.236	/	Pass
			6995	/	/	12	20.625	/	Pass
			7095	/	/	12	19.751	/	Pass
	802.11ax (HEW20)	MIMO	6895	RU242	Left	12	21.208	/	Pass
			6995	RU242	Left	12	21.371	/	Pass
			7095	RU242	Left	12	21.137	/	Pass
	802.11ax (HEW40)	MIMO	6925	RU484	Left	12	39.478	/	Pass
			7005	RU484	Left	12	39.416	/	Pass
			7085	RU484	Left	12	39.458	/	Pass
	802.11ax (HEW80)	MIMO	6945	RU996	Left	12	80.557	/	Pass
			7025	RU996	Left	12	80.420	/	Pass

2.1.9 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6875	/	/	12	17.099	<=320	Pass
	802.11ax (HEW20)	MIMO	6875	RU242	Left	12	19.119	<=320	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	12	37.713	<=320	Pass
	802.11ax (HEW80)	MIMO	6865	RU996	Left	12	77.866	<=320	Pass

2.1.10 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	SISO	6875	/	/	12	20.078	/	Pass
	802.11ax (HEW20)	MIMO	6875	RU242	Left	12	21.785	/	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	12	39.515	/	Pass
	802.11ax (HEW80)	MIMO	6865	RU996	Left	12	80.570	/	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439007

Page: 157 of 688

2.1.11 OBW

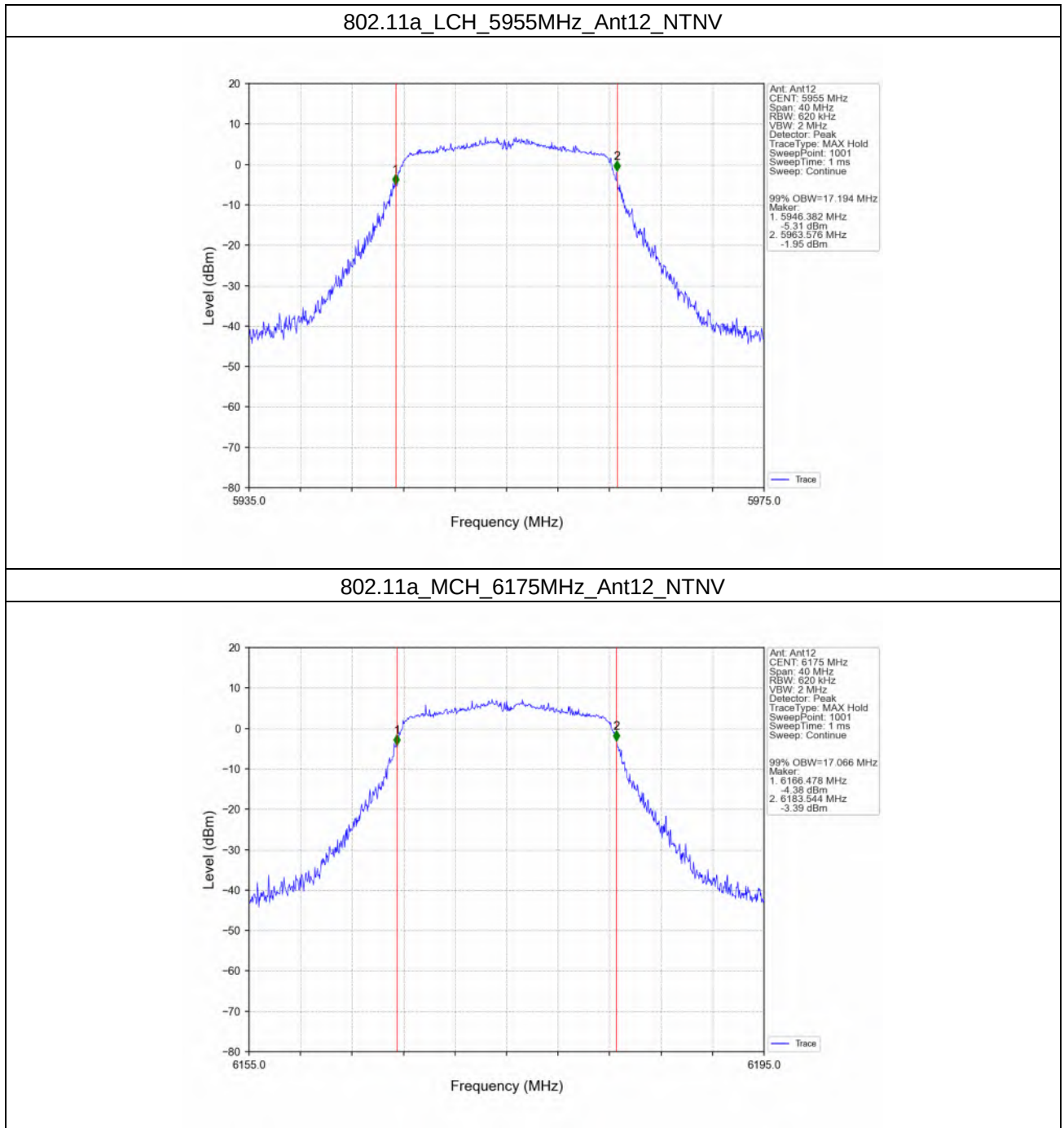
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							Result	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	12	37.655	<=320	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	12	77.782	<=320	Pass

2.1.12 26dB BW

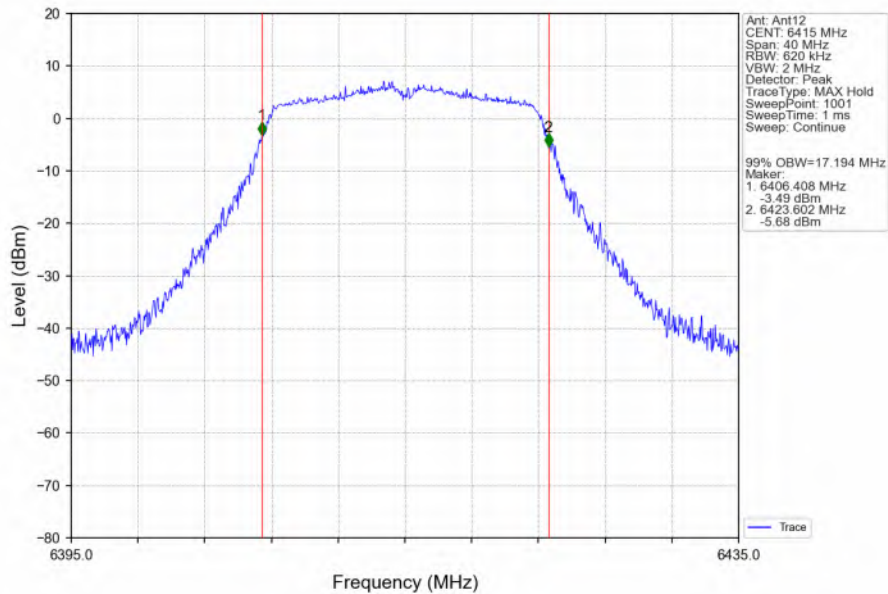
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	12	39.522	/	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	12	80.359	/	Pass

2.2 Test Graph

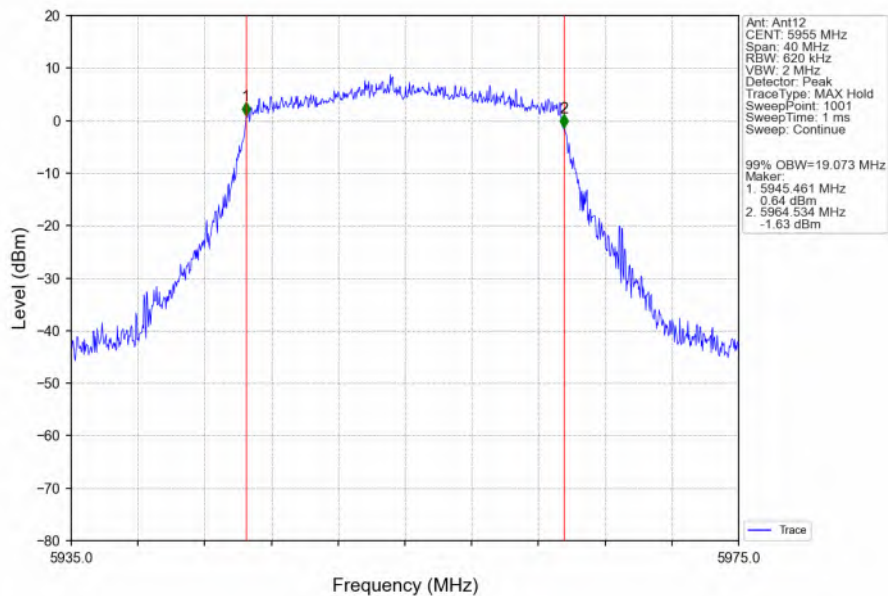
2.2.1 OBW



802.11a_HCH_6415MHz_Ant12_NTNV



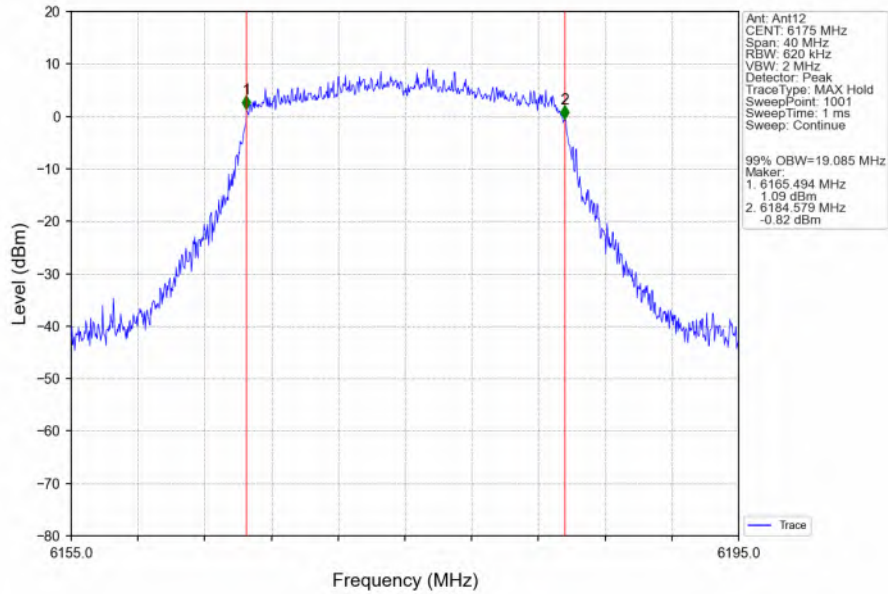
802.11ax(HEW20)_LCH_5955MHz_RU242_Left_Ant12_NTNV



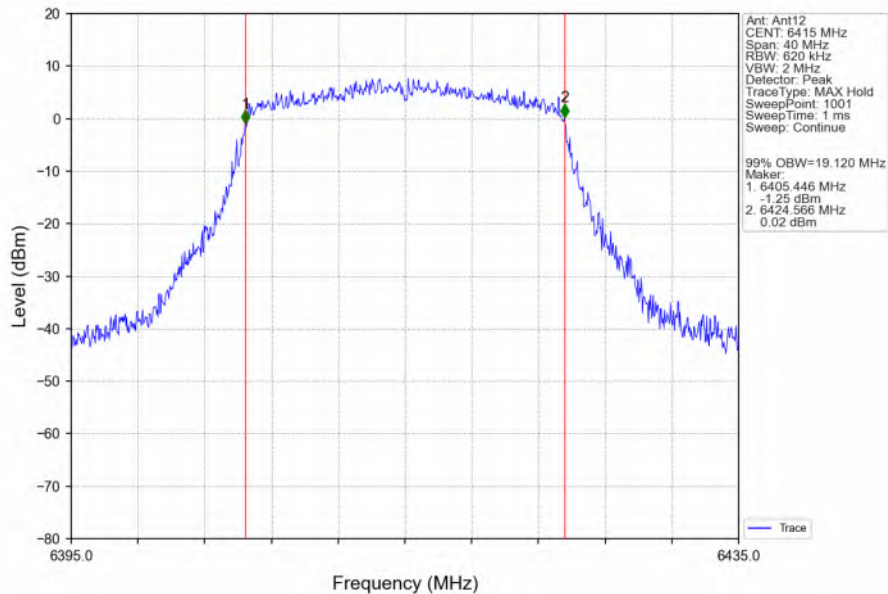
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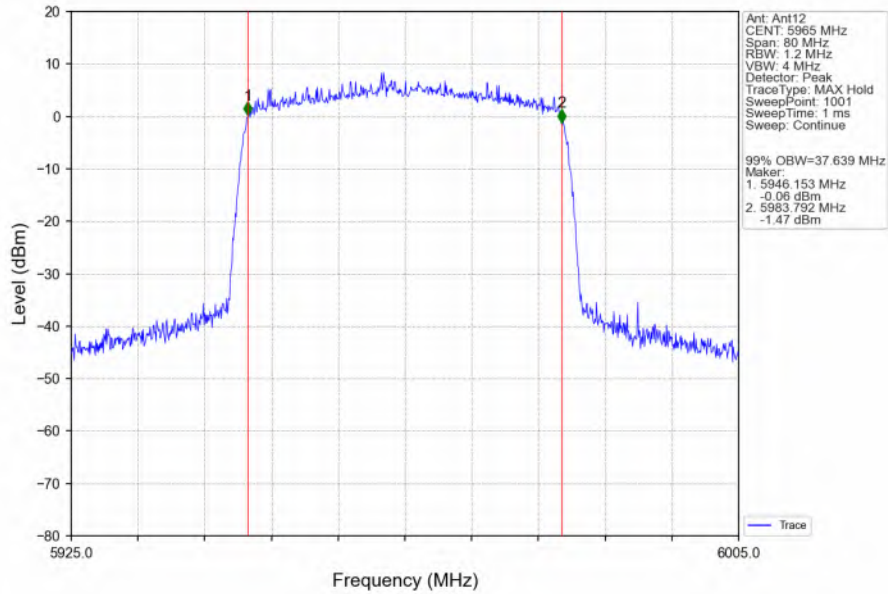
802.11ax(HEW20)_MCH_6175MHz_RU242_Left_Ant12_NTNV



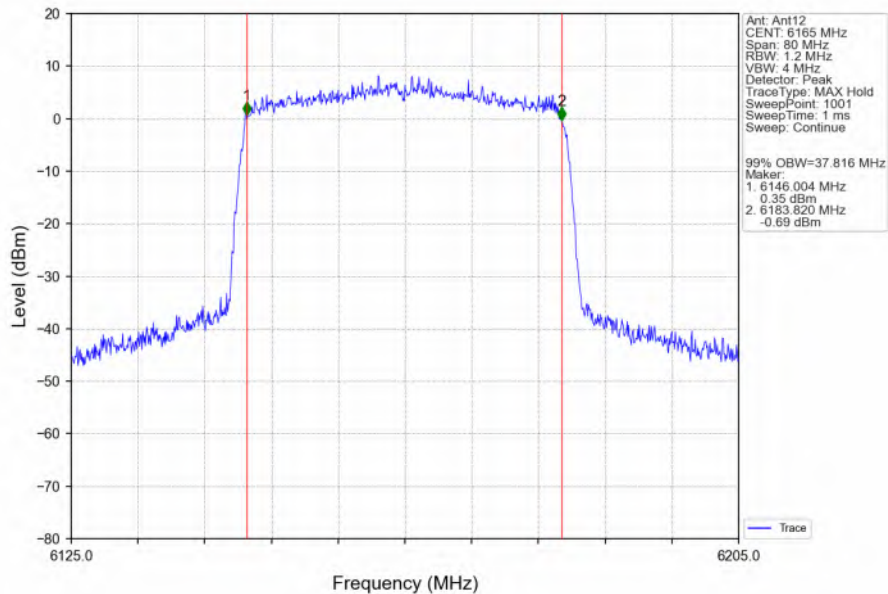
802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant12_NTNV



802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant12_NTNV



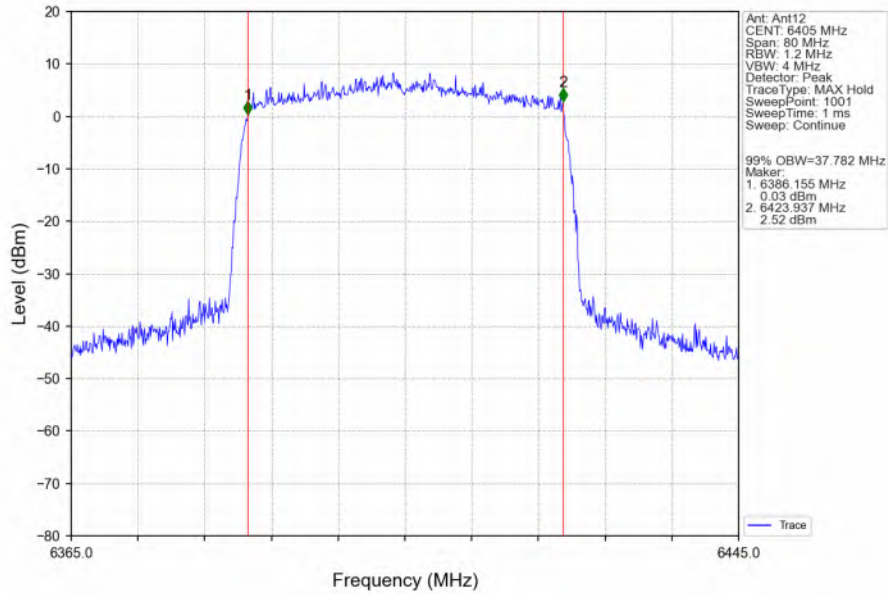
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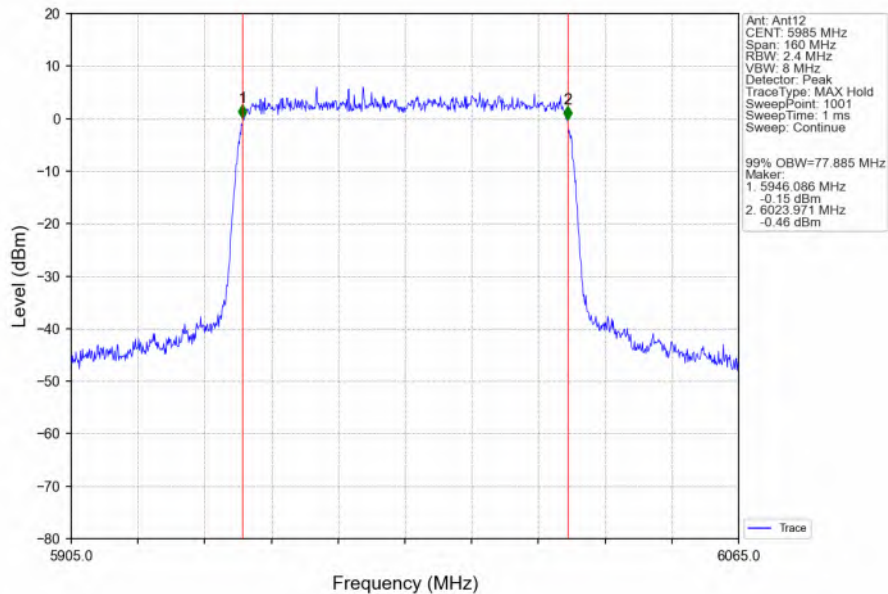
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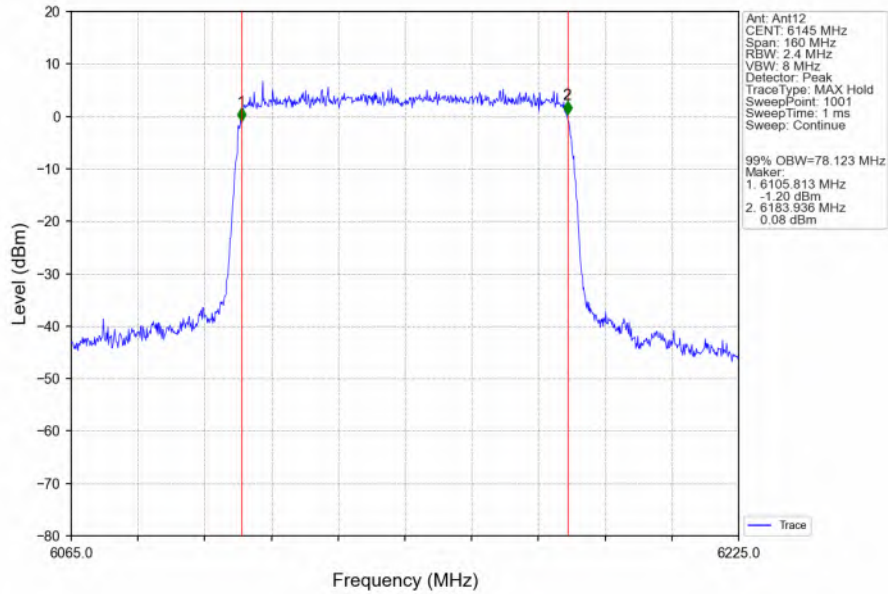
802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant12_NTNV



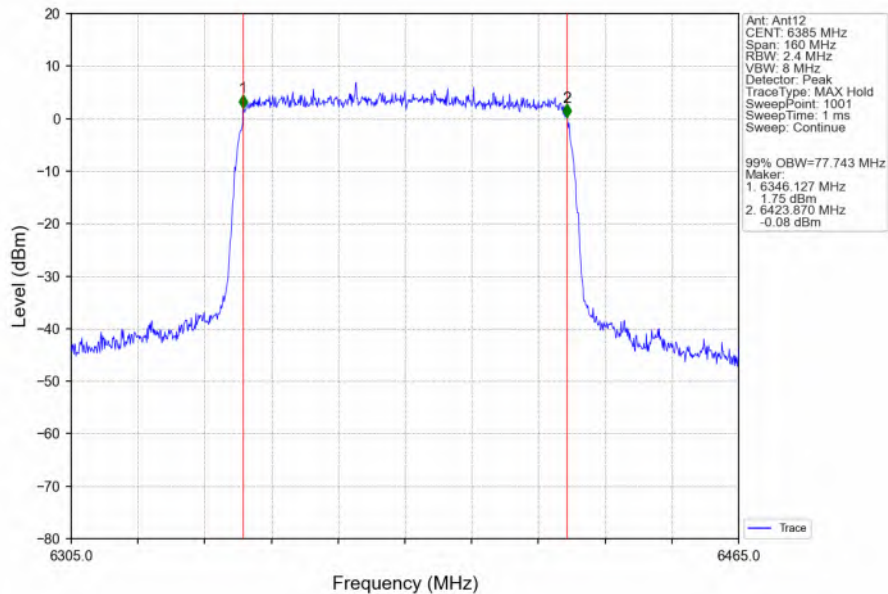
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802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant12_NTNV

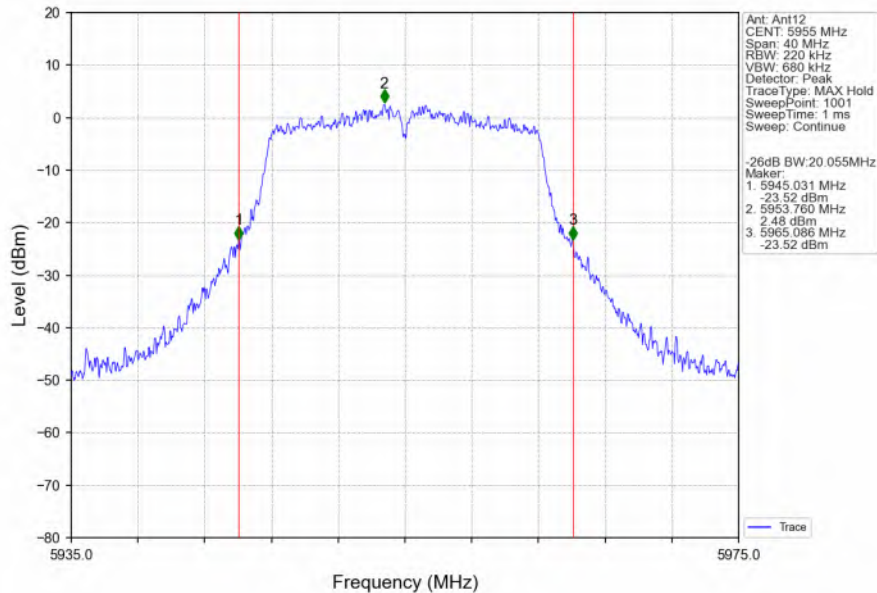


802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant12_NTNV



2.2.2 26dB BW

802.11a_LCH_5955MHz_Ant12_NTNV



802.11a_MCH_6175MHz_Ant12_NTNV

