

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032428.D
 Acq On : 11 Nov 2025 14:15
 Operator : SY/MD
 Sample : Q3586-02
 Misc : 8.48g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 12 03:49:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

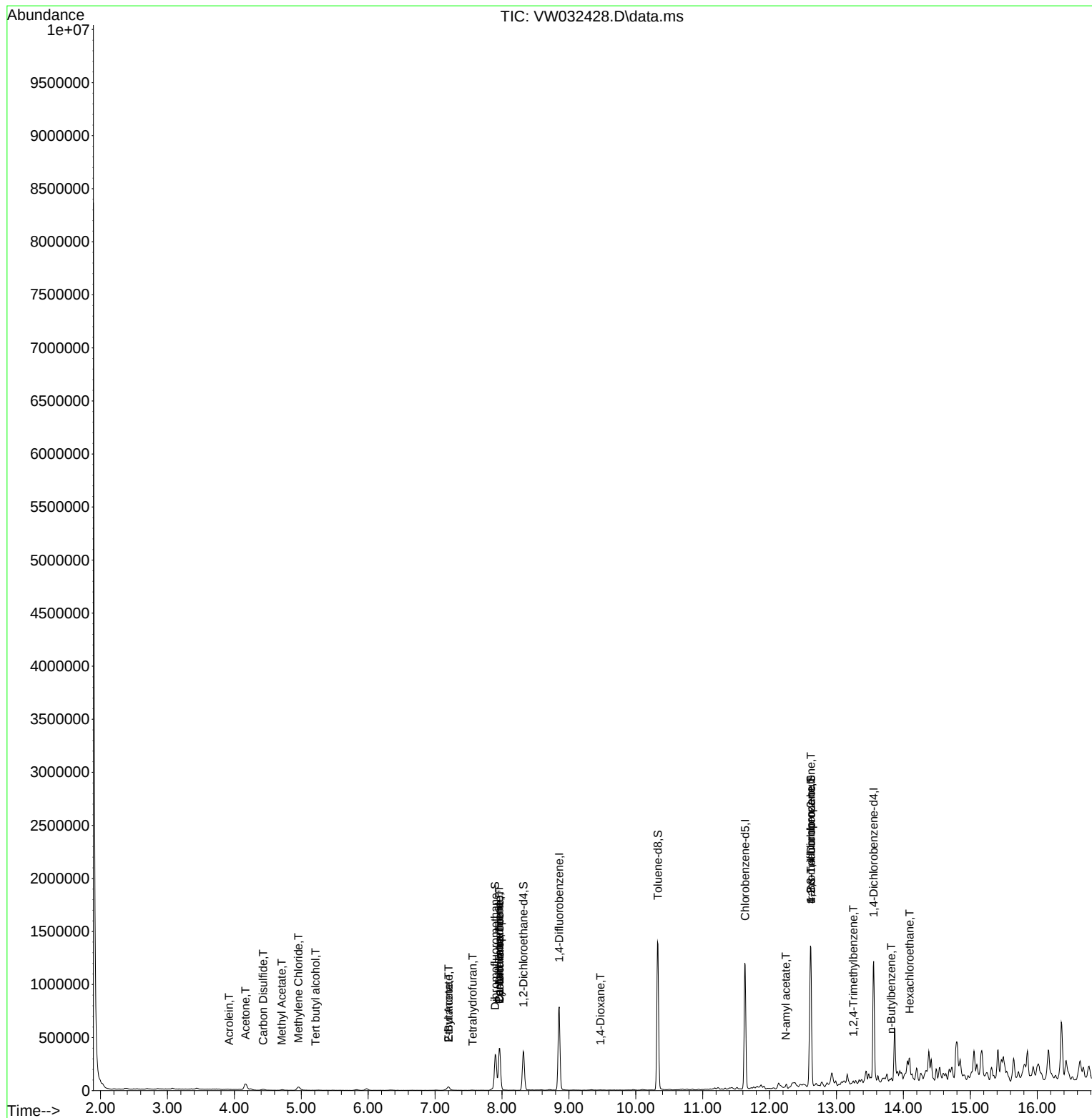
Internal Standards						
1) Pentafluorobenzene	7.959	168	283259	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	670411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	673114	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	275351	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	294458	80.632	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 161.260%#		
35) Dibromofluoromethane	7.898	113	259724	64.706	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 129.420%		
50) Toluene-d8	10.331	98	957024	62.150	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 124.300%#		
62) 4-Bromofluorobenzene	12.617	95	393409	67.631	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 135.260%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.216	59	671	2.125	ug/l #	80
13) Acrolein	3.923	56	1433	2.705	ug/l #	14
16) Acetone	4.167	43	108416	99.232	ug/l	99
17) Carbon Disulfide	4.429	76	16719	1.858	ug/l	100
18) Methyl Acetate	4.710	43	12111	4.476	ug/l	98
20) Methylene Chloride	4.960	84	26320	6.736	ug/l	91
25) 2-Butanone	7.203	43	53672	33.345	ug/l	99
29) Tetrahydrofuran	7.563	42	1158	1.133	ug/l #	45
31) Cyclohexane	7.965	56	7952	1.316	ug/l #	1
36) 1,1-Dichloropropene	7.965	75	24864	4.204	ug/l #	50
37) Ethyl Acetate	7.203	43	53672	12.205	ug/l #	71
38) Carbon Tetrachloride	7.959	117	30253	5.757	ug/l #	15
49) 1,4-Dioxane	9.471	88	2007	51.697	ug/l #	74
74) N-amyl acetate	12.245	43	9153	1.303	ug/l #	62
76) 1,2,3-Trichloropropane	12.617	75	199844	52.932	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	199844	121.237	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.251	105	22246	1.311	ug/l	99
89) n-Butylbenzene	13.818	91	17808	1.021	ug/l #	77
90) Hexachloroethane	14.092	117	8515	2.646	ug/l #	21

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

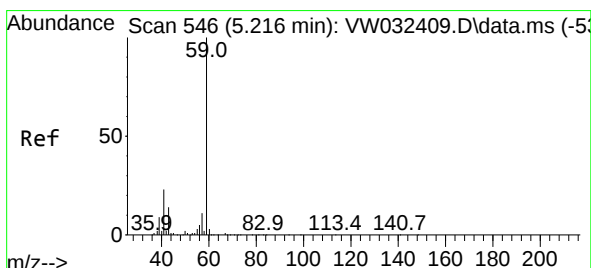
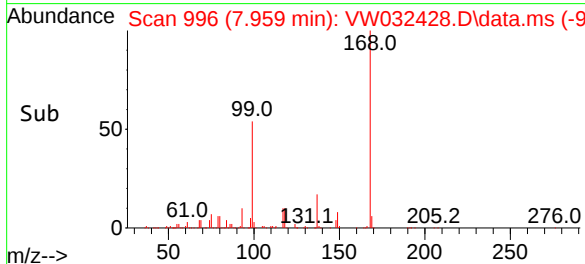
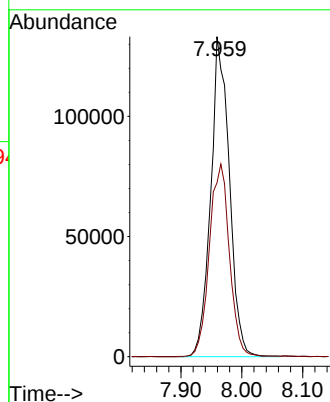
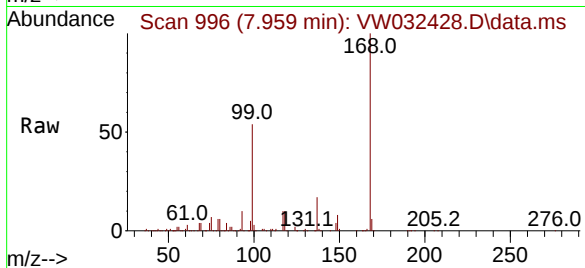




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

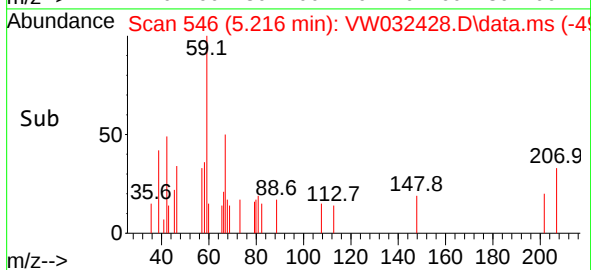
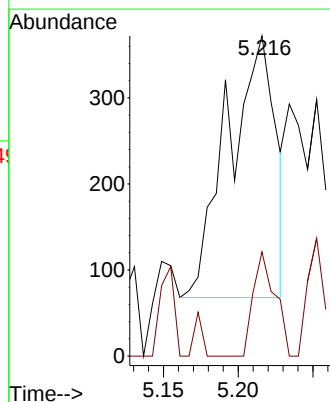
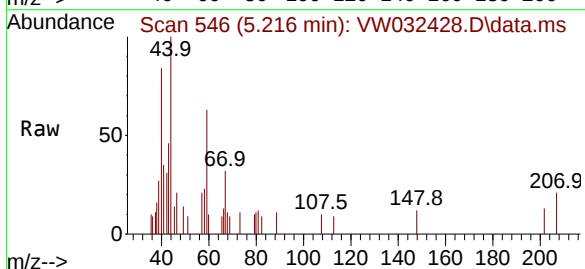
Instrument :
MSVOA_W
ClientSampleId :

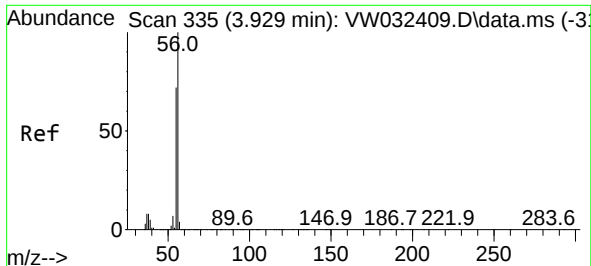
Tgt Ion:168 Resp: 283259
Ion Ratio Lower Upper
168 100
99 54.2 45.4 68.2



#11
Tert butyl alcohol
Concen: 2.125 ug/l
RT: 5.216 min Scan# 546
Delta R.T. 0.000 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 59 Resp: 671
Ion Ratio Lower Upper
59 100
57 18.3 8.6 12.8#

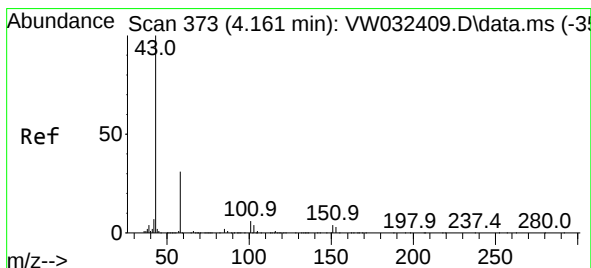
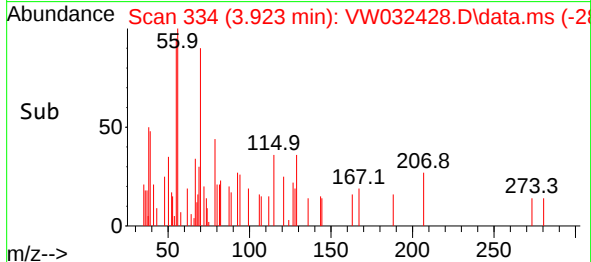
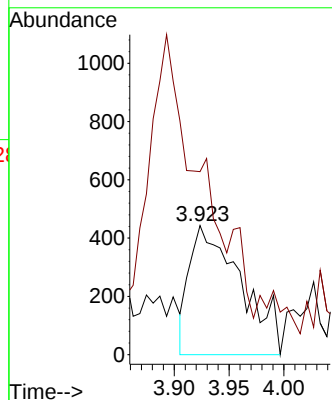
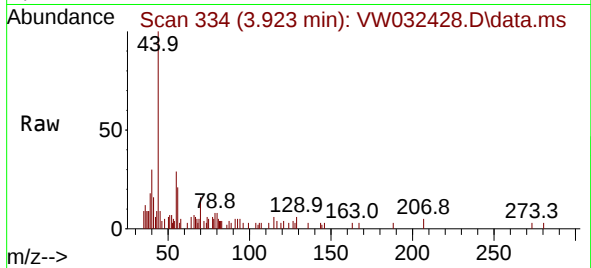




#13
Acrolein
Concen: 2.705 ug/l
RT: 3.923 min Scan# 31
Delta R.T. -0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

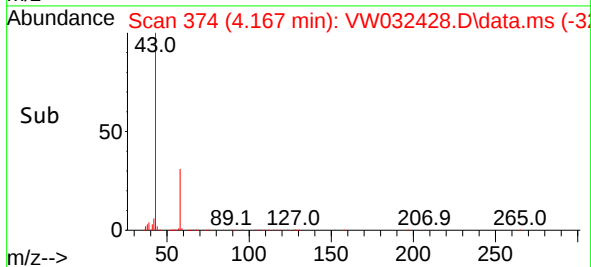
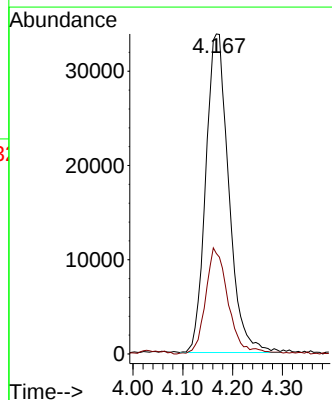
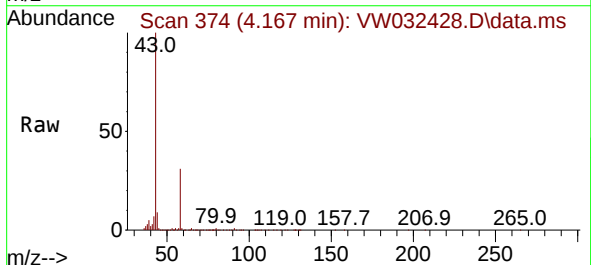
Instrument :
MSVOA_W
ClientSampleId :

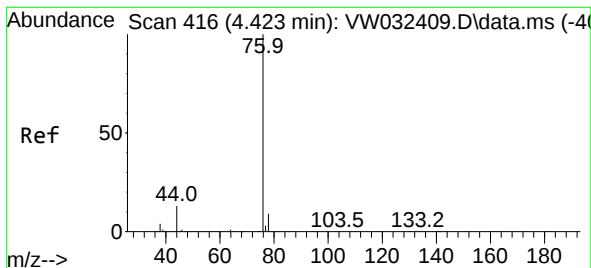
Tgt Ion: 56 Resp: 1433
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 99.232 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 43 Resp: 108416
Ion Ratio Lower Upper
43 100
58 31.3 24.8 37.2





#17

Carbon Disulfide

Concen: 1.858 ug/l

RT: 4.429 min Scan# 416

Delta R.T. 0.006 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Instrument :

MSVOA_W

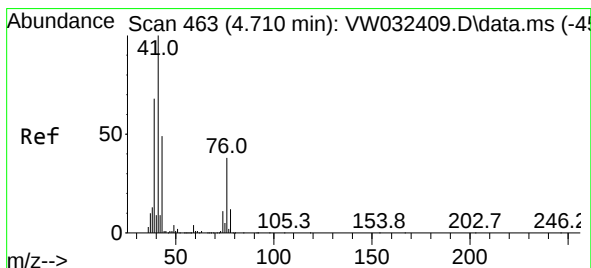
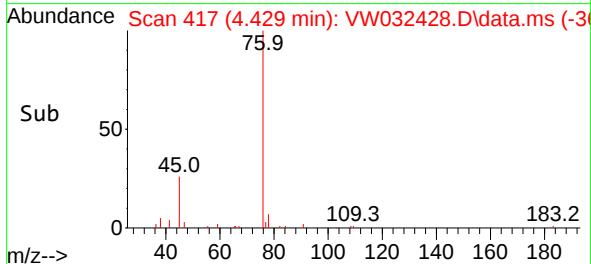
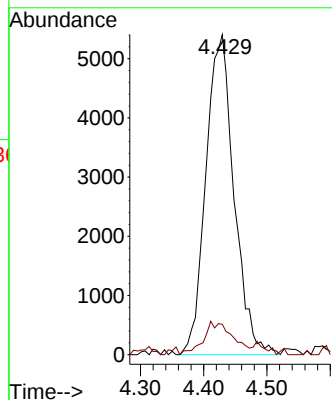
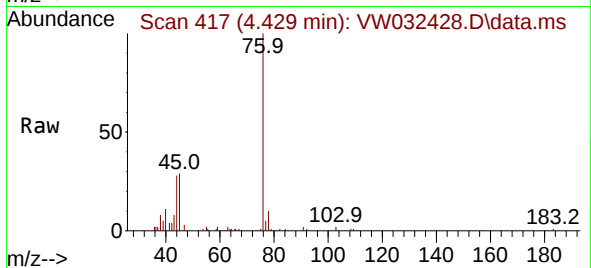
ClientSampleId :

Tgt Ion: 76 Resp: 16719

Ion Ratio Lower Upper

76 100

78 9.5 7.6 11.4



#18

Methyl Acetate

Concen: 4.476 ug/l

RT: 4.710 min Scan# 463

Delta R.T. 0.000 min

Lab File: VW032428.D

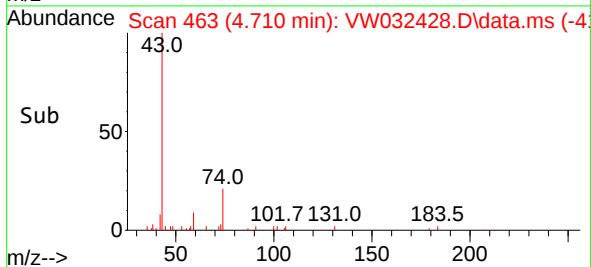
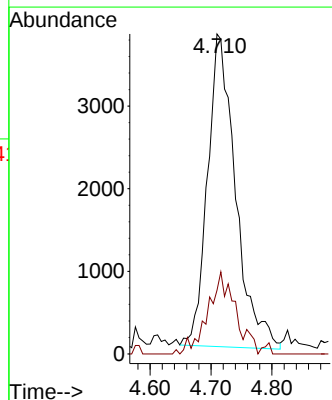
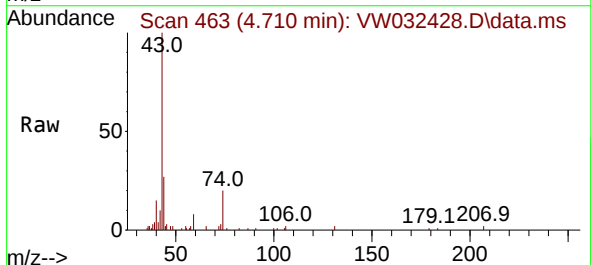
Acq: 11 Nov 2025 14:15

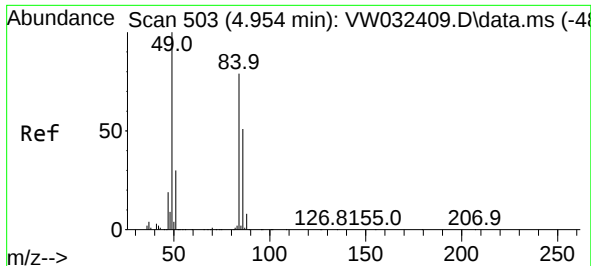
Tgt Ion: 43 Resp: 12111

Ion Ratio Lower Upper

43 100

74 22.5 18.9 28.3

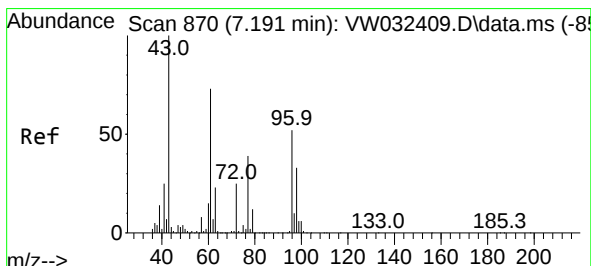
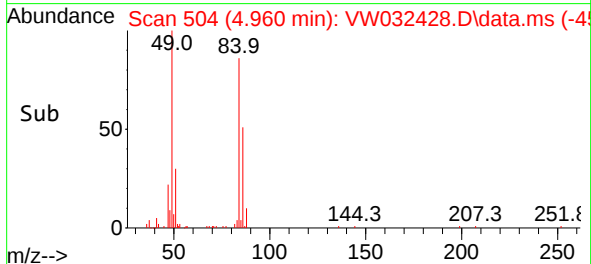
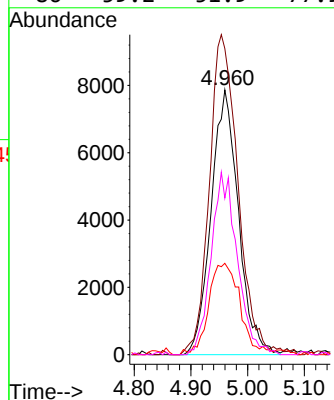
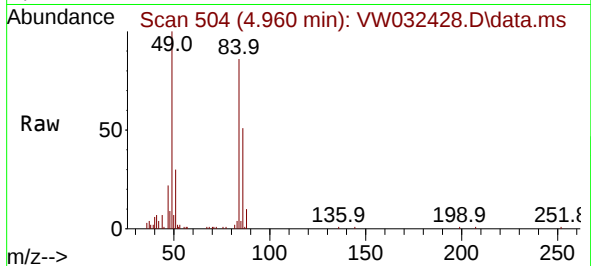




#20
Methylene Chloride
Concen: 6.736 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

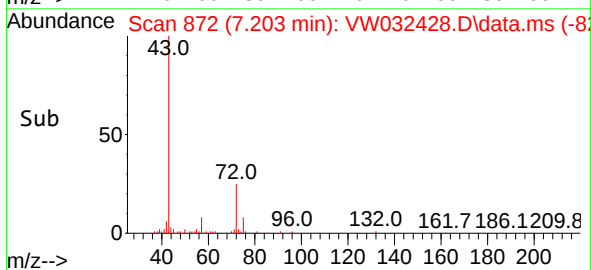
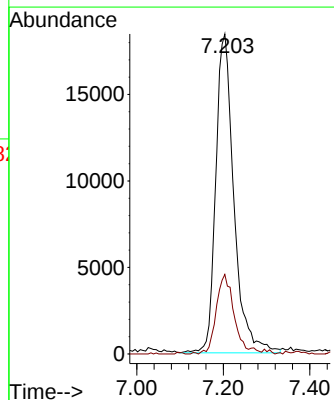
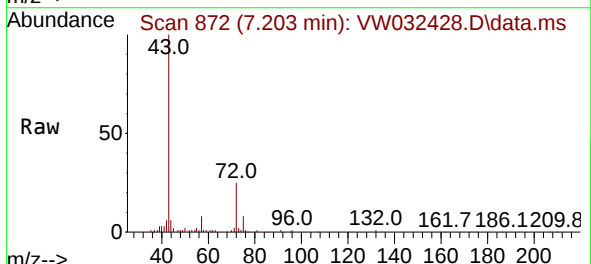
Instrument :
MSVOA_W
ClientSampleId :

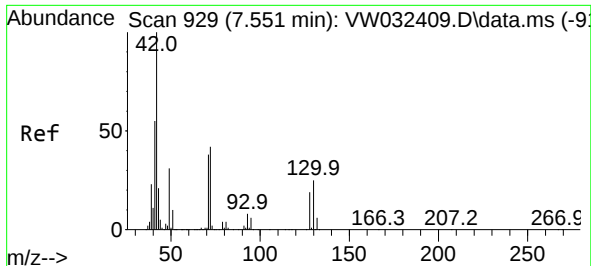
Tgt Ion: 84 Resp: 26320
Ion Ratio Lower Upper
84 100
49 115.6 101.5 152.3
51 34.5 30.6 46.0
86 59.2 51.9 77.9



#25
2-Butanone
Concen: 33.345 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 43 Resp: 53672
Ion Ratio Lower Upper
43 100
72 24.5 20.0 30.0





#29

Tetrahydrofuran

Concen: 1.133 ug/l

RT: 7.563 min Scan# 91

Delta R.T. 0.012 min

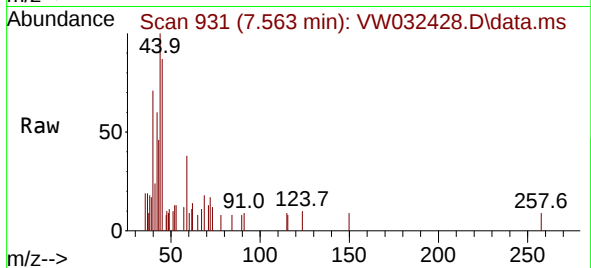
Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

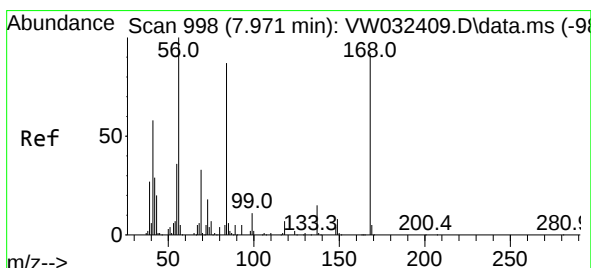
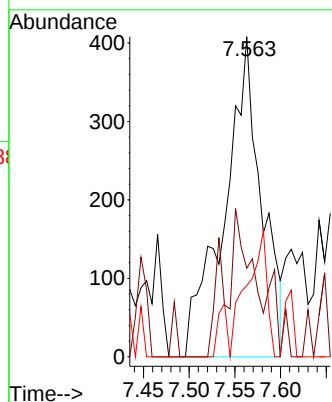
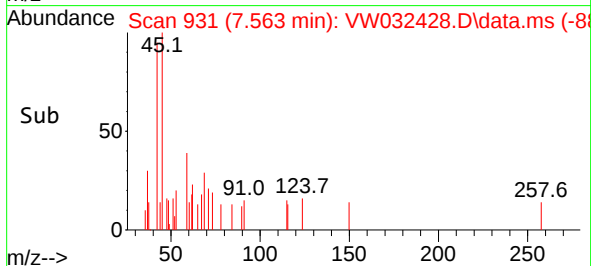
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	42	Resp:	1158
Ion Ratio	Lower	Upper	
42	100		
72	12.3	33.6	50.4#
71	0.0	31.4	47.0#



#31

Cyclohexane

Concen: 1.316 ug/l

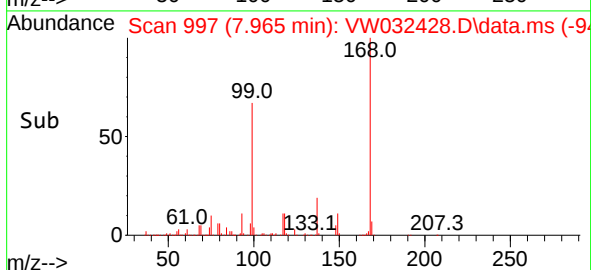
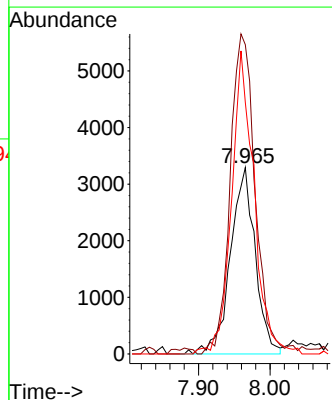
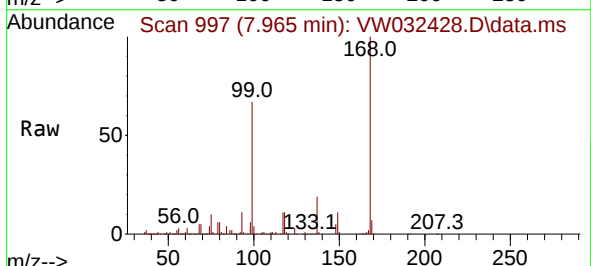
RT: 7.965 min Scan# 997

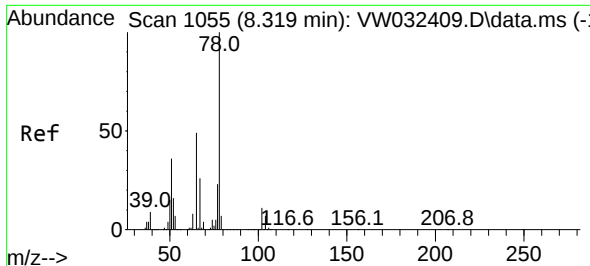
Delta R.T. -0.006 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Tgt Ion:	56	Resp:	7952
Ion Ratio	Lower	Upper	
56	100		
69	163.9	26.5	39.7#
84	134.9	69.6	104.4#

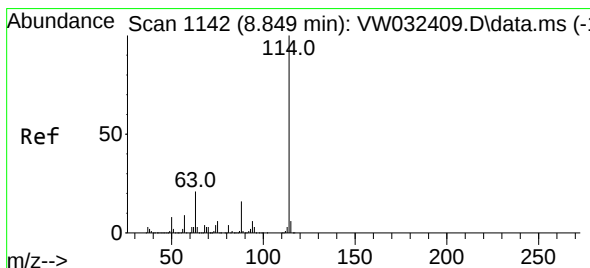
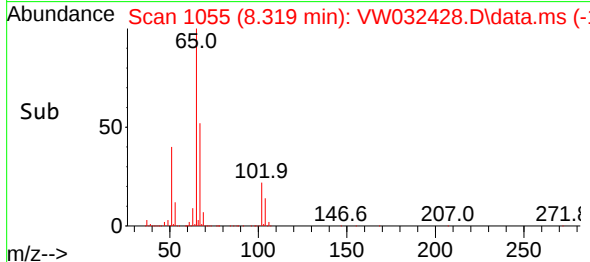
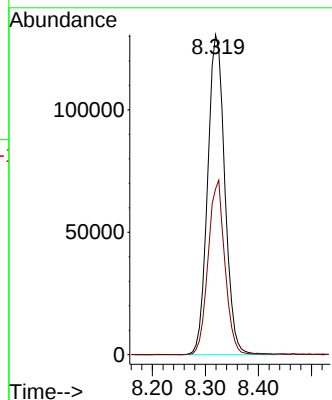
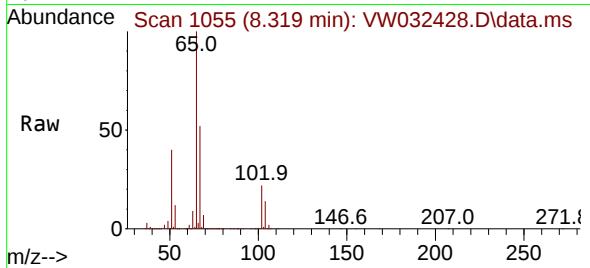




#33
 1,2-Dichloroethane-d4
 Concen: 80.632 ug/l
 RT: 8.319 min Scan# 1105
 Delta R.T. 0.000 min
 Lab File: VW032428.D
 Acq: 11 Nov 2025 14:15

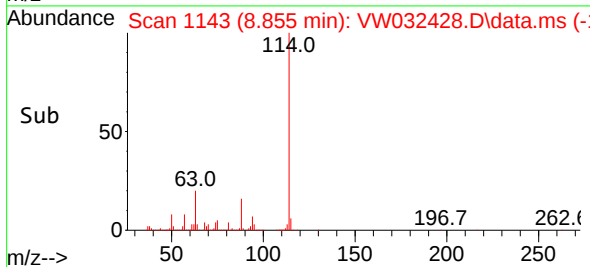
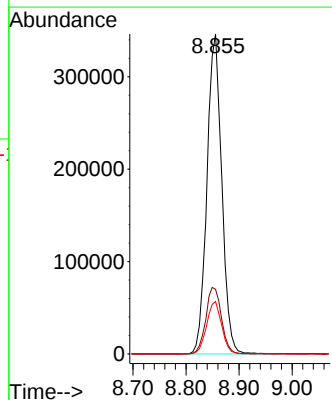
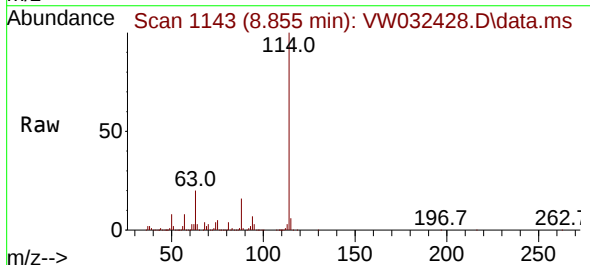
Instrument :
 MSVOA_W
 ClientSampleId :

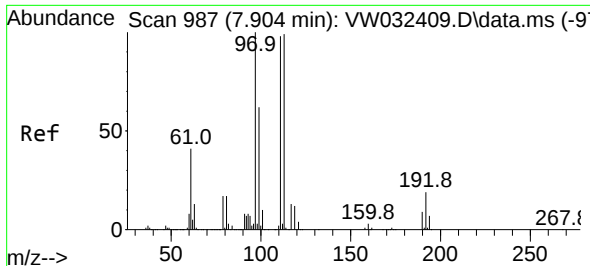
Tgt Ion: 65 Resp: 294458
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032428.D
 Acq: 11 Nov 2025 14:15

Tgt Ion:114 Resp: 670411
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.8
 88 16.4 0.0 32.6

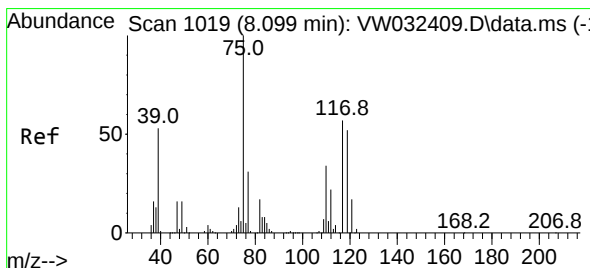
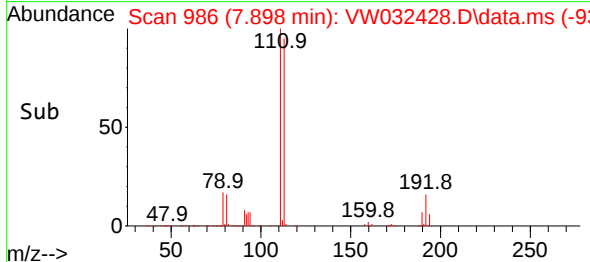
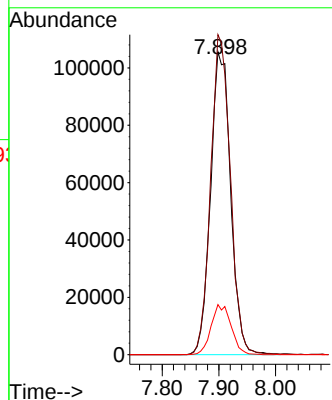
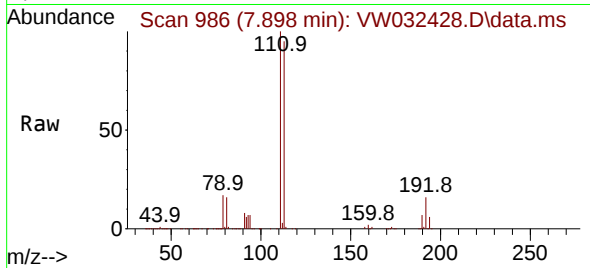




#35
Dibromofluoromethane
Concen: 64.706 ug/l
RT: 7.898 min Scan# 91
Delta R.T. -0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

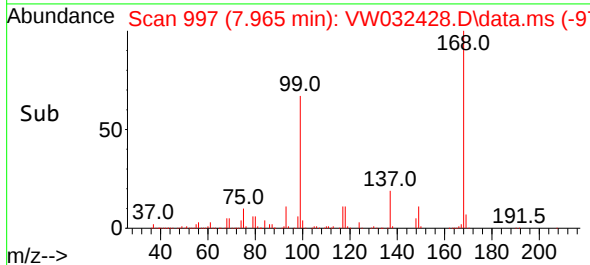
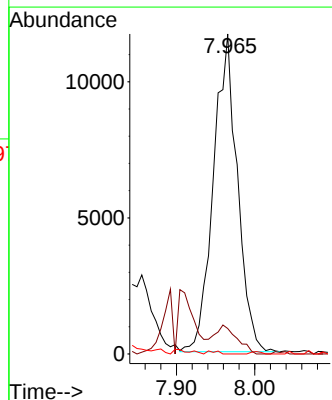
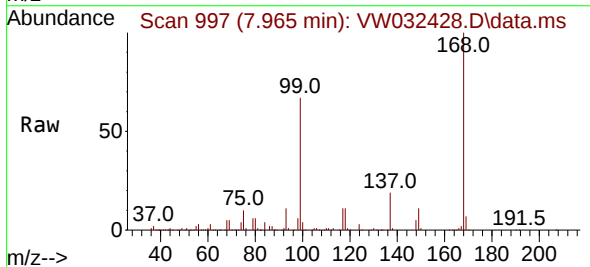
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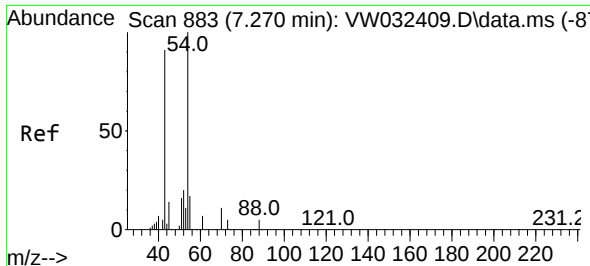
Tgt Ion:113 Resp: 259724
Ion Ratio Lower Upper
113 100
111 103.5 83.1 124.7
192 16.5 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.204 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.134 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 75 Resp: 24864
Ion Ratio Lower Upper
75 100
110 8.3 17.2 51.5#
77 0.0 24.5 36.7#





#37

Ethyl Acetate

Concen: 12.205 ug/l

RT: 7.203 min Scan# 81

Delta R.T. -0.067 min

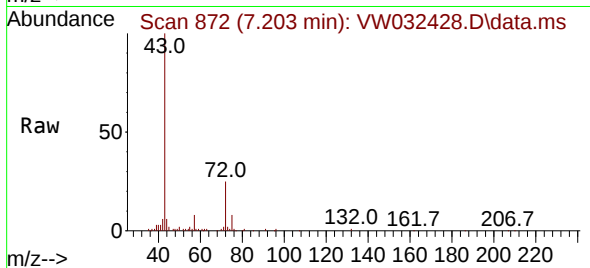
Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Instrument :

MSVOA_W

ClientSampleId :



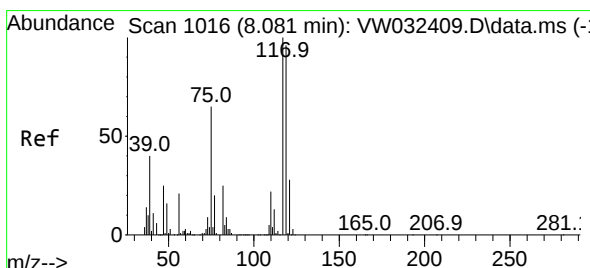
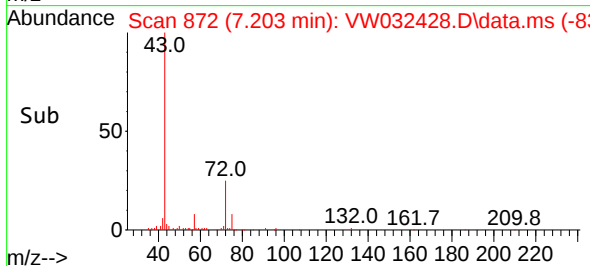
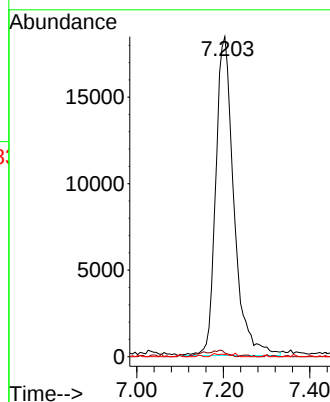
Tgt Ion: 43 Resp: 53672

Ion Ratio Lower Upper

43 100

61 1.5 11.0 16.6#

70 0.0 8.3 12.5#



#38

Carbon Tetrachloride

Concen: 5.757 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.122 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

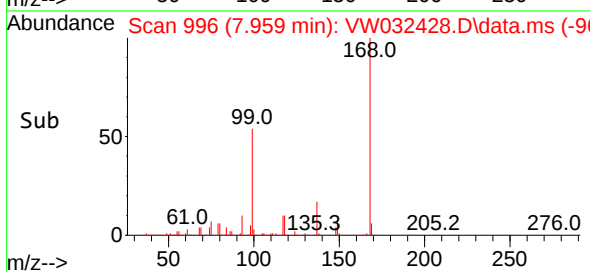
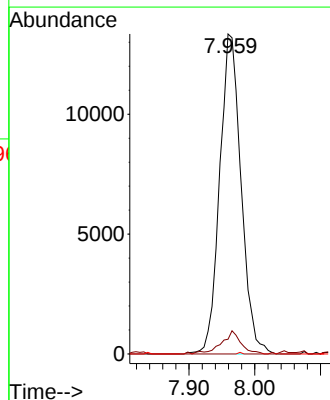
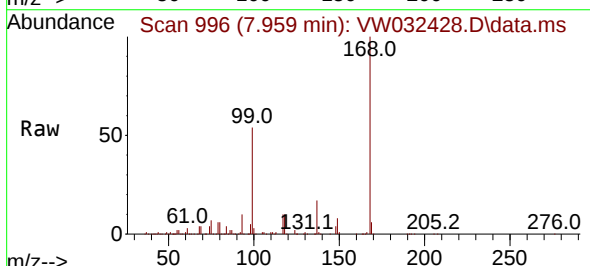
Tgt Ion: 117 Resp: 30253

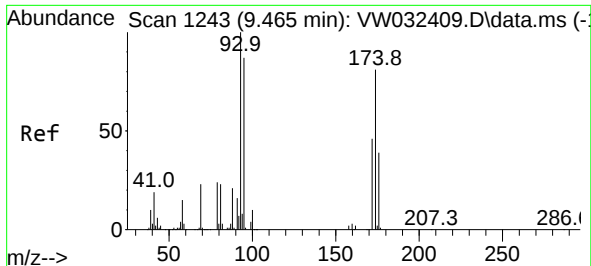
Ion Ratio Lower Upper

117 100

119 4.6 77.0 115.4#

121 0.0 22.0 33.0#





#49

1,4-Dioxane

Concen: 51.697 ug/l

RT: 9.471 min Scan# 11

Delta R.T. 0.006 min

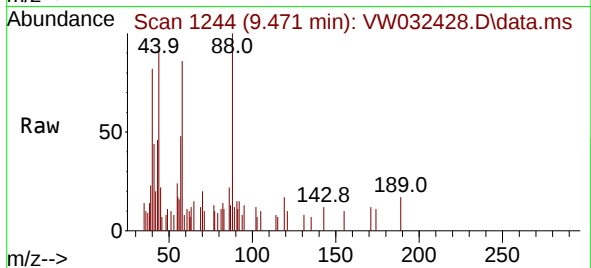
Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Instrument :

MSVOA_W

ClientSampleId :



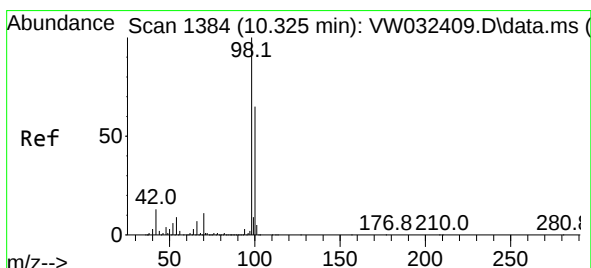
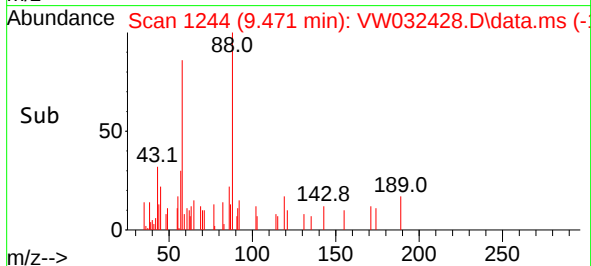
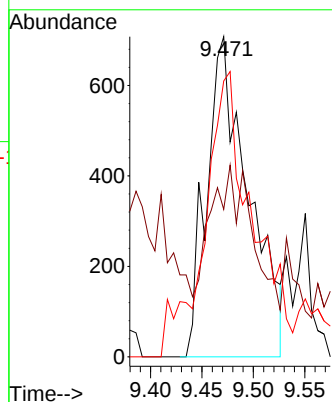
Tgt Ion: 88 Resp: 2007

Ion Ratio Lower Upper

88 100

43 43.1 0.0 0.0#

58 101.3 63.0 94.4#



#50

Toluene-d8

Concen: 62.150 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032428.D

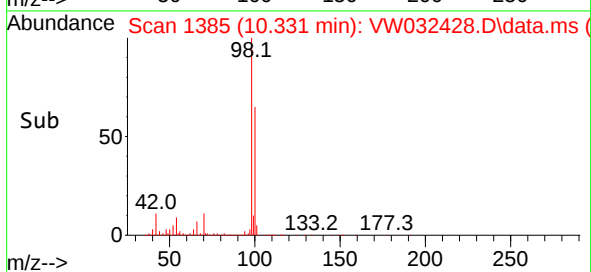
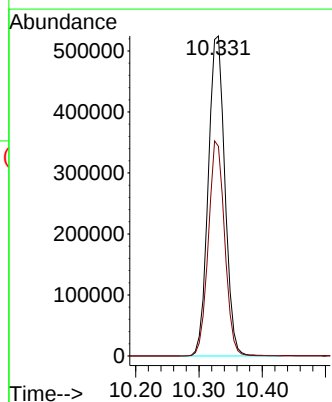
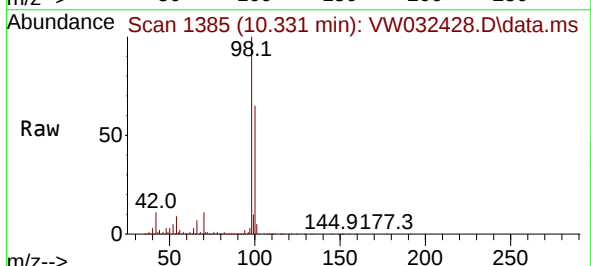
Acq: 11 Nov 2025 14:15

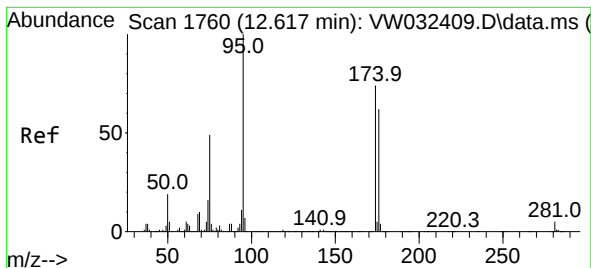
Tgt Ion: 98 Resp: 957024

Ion Ratio Lower Upper

98 100

100 66.0 53.3 79.9

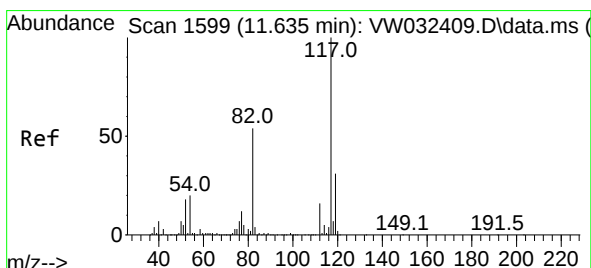
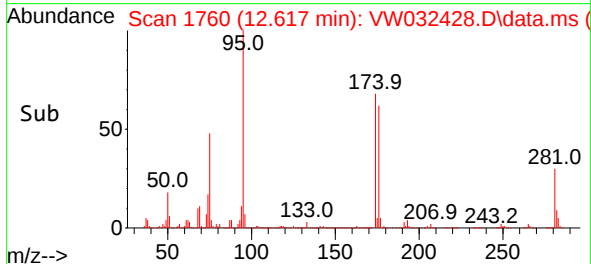
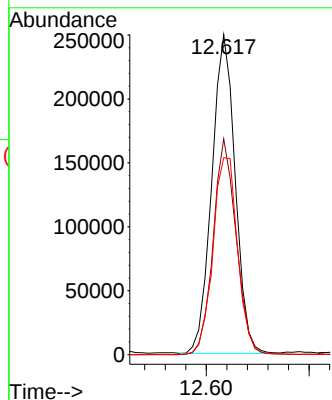
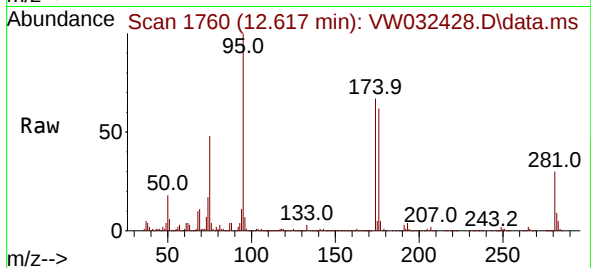




#62
4-Bromofluorobenzene
Concen: 67.631 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

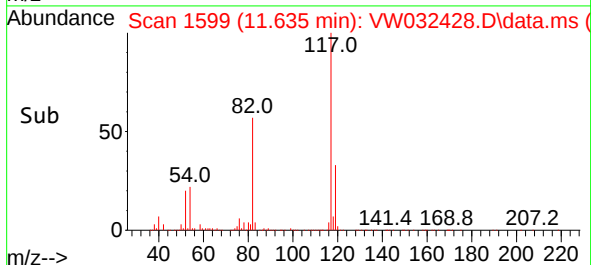
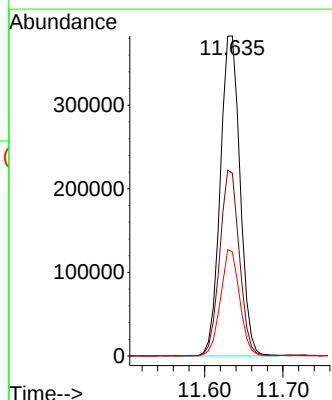
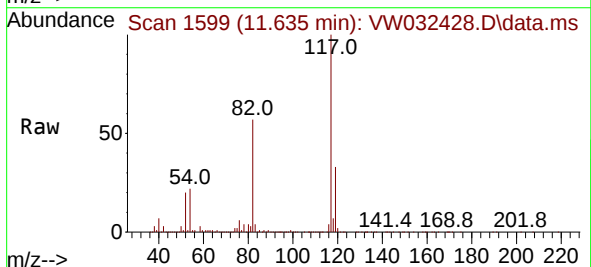
Instrument :
MSVOA_W
ClientSampleId :

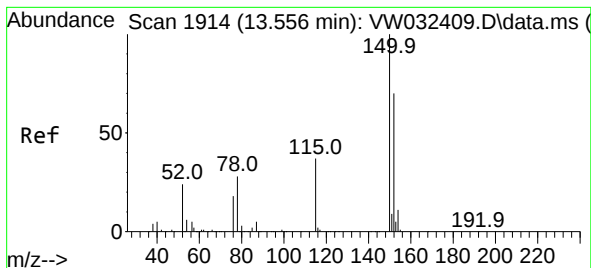
Tgt Ion: 95 Resp: 393409
Ion Ratio Lower Upper
95 100
174 66.4 0.0 135.4
176 65.4 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion:117 Resp: 673114
Ion Ratio Lower Upper
117 100
82 57.1 43.0 64.4
119 32.5 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Instrument :

MSVOA_W

ClientSampleId :

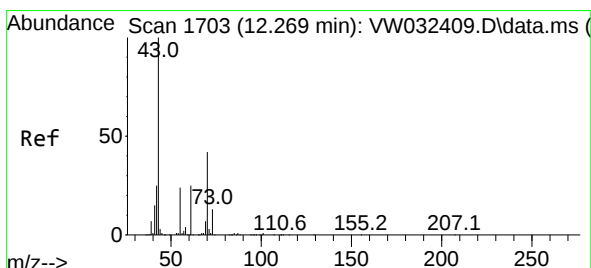
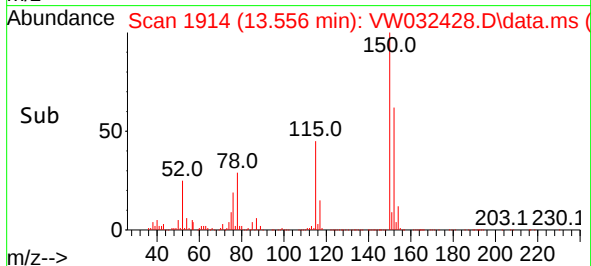
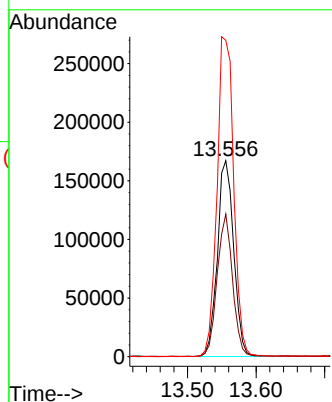
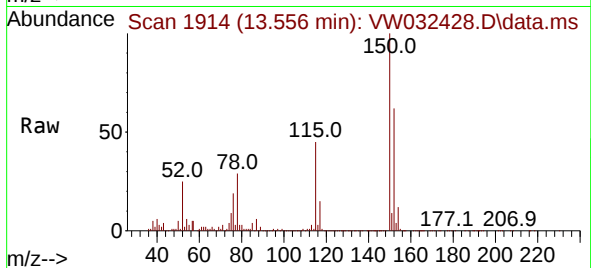
Tgt Ion:152 Resp: 275351

Ion Ratio Lower Upper

152 100

115 68.3 32.8 98.3

150 167.0 0.0 356.6



#74

N-ethyl acetate

Concen: 1.303 ug/l

RT: 12.245 min Scan# 1699

Delta R.T. -0.024 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Tgt Ion: 43 Resp: 9153

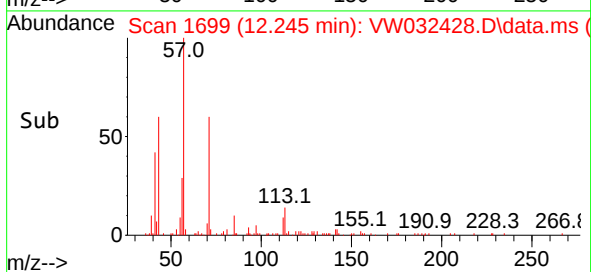
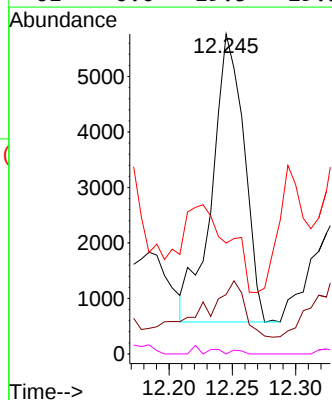
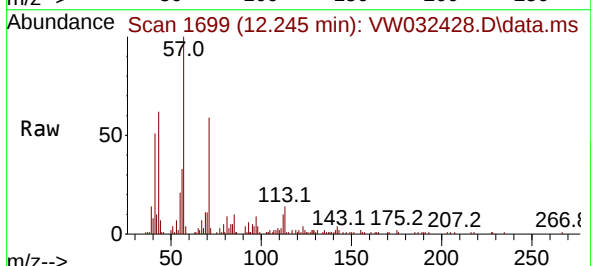
Ion Ratio Lower Upper

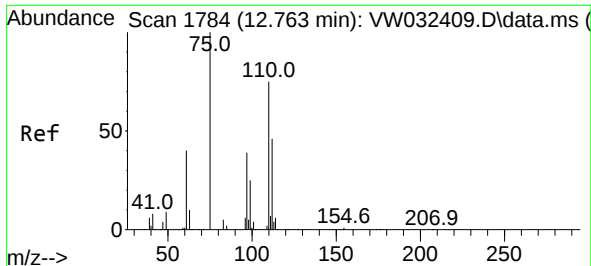
43 100

70 25.6 33.5 50.3#

55 0.0 19.3 28.9#

61 0.0 19.5 29.3#

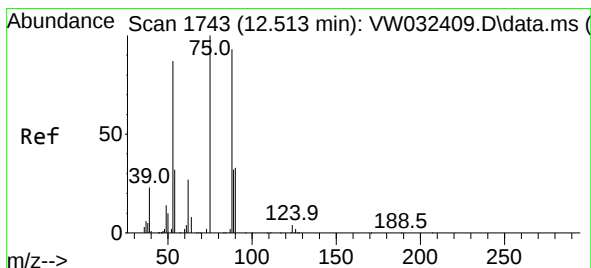
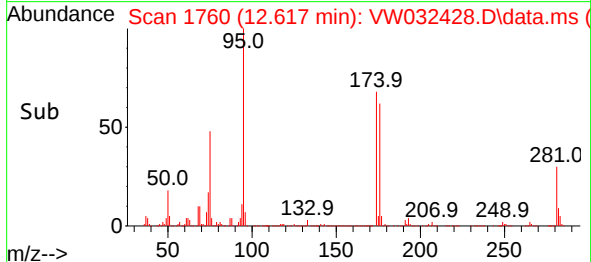
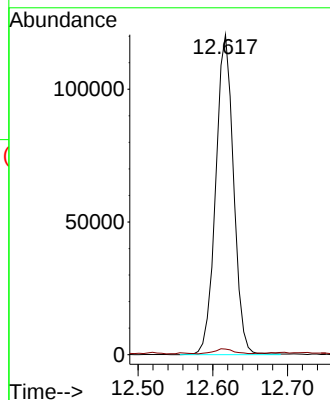
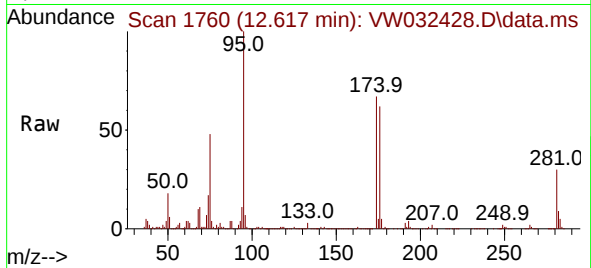




#76
1,2,3-Trichloropropane
Concen: 52.932 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

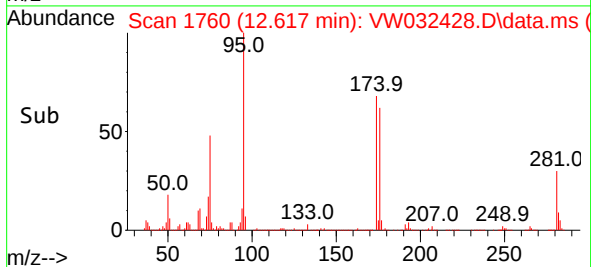
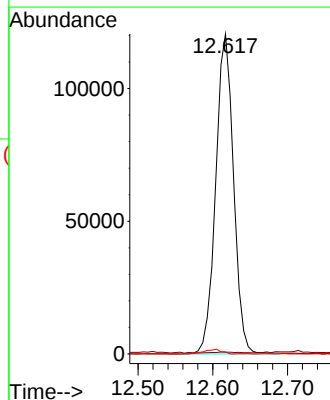
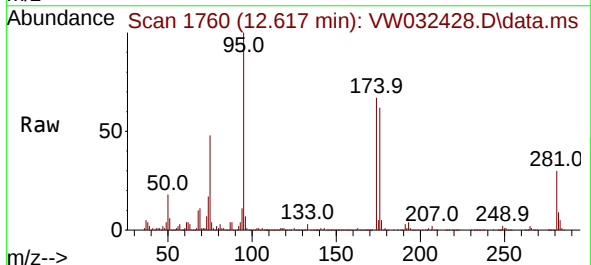
Instrument :
MSVOA_W
ClientSampleId :

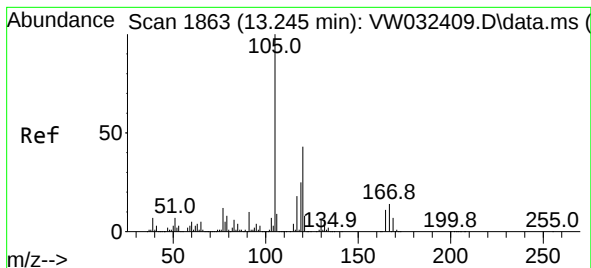
Tgt Ion: 75 Resp: 199844
Ion Ratio Lower Upper
75 100
77 1.8 151.6 454.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 121.237 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 75 Resp: 199844
Ion Ratio Lower Upper
75 100
53 0.4 77.8 116.8#
89 1.4 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.311 ug/l

RT: 13.251 min Scan# 1864

Delta R.T. 0.006 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Instrument :

MSVOA_W

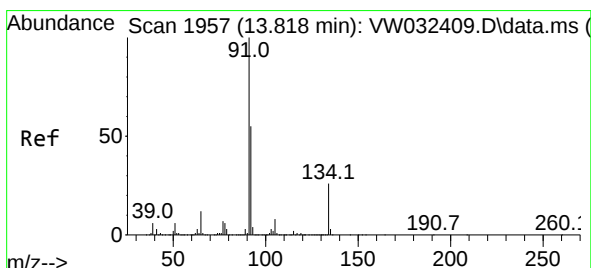
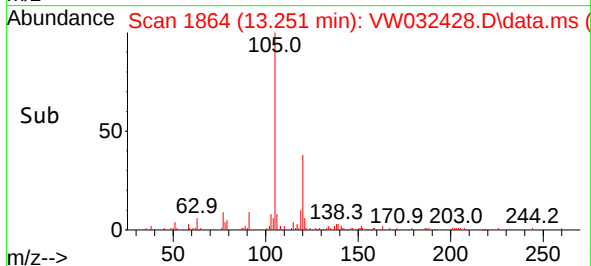
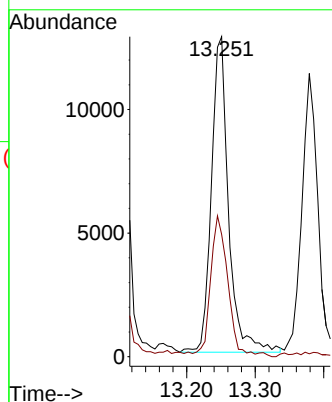
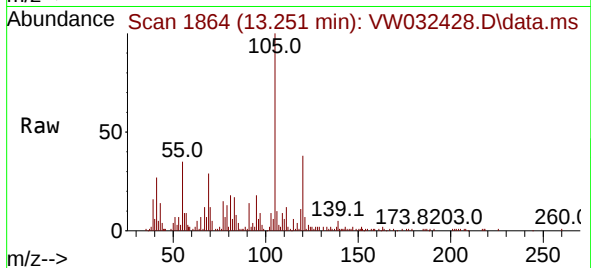
ClientSampleId :

Tgt Ion:105 Resp: 22246

Ion Ratio Lower Upper

105 100

120 45.1 22.1 66.5



#89

n-Butylbenzene

Concen: 1.021 ug/l

RT: 13.818 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

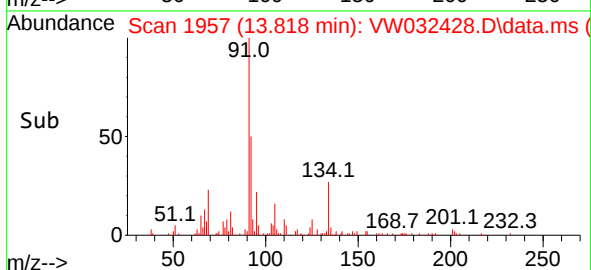
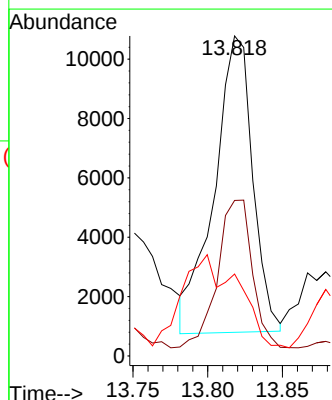
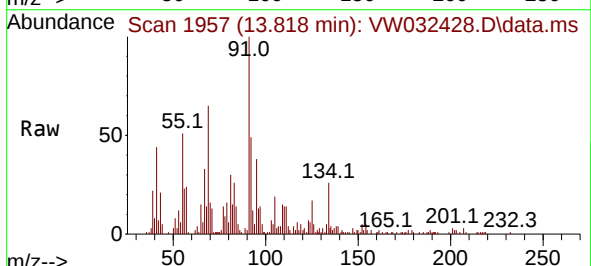
Tgt Ion: 91 Resp: 17808

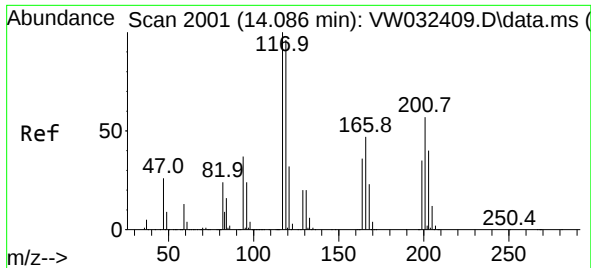
Ion Ratio Lower Upper

91 100

92 47.4 27.4 82.2

134 0.0 12.4 37.4#





#90
 Hexachloroethane
 Concen: 2.646 ug/l
 RT: 14.092 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VW032428.D
 Acq: 11 Nov 2025 14:15

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion:117 Resp: 8515
 Ion Ratio Lower Upper
 117 100
 201 1.9 32.0 96.0#

