

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032478.D
 Acq On : 18 Nov 2025 14:02
 Operator : SY/MD
 Sample : Q3640-03
 Misc : 3.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LAW-25-0182

Quant Time: Nov 19 00:27:36 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)

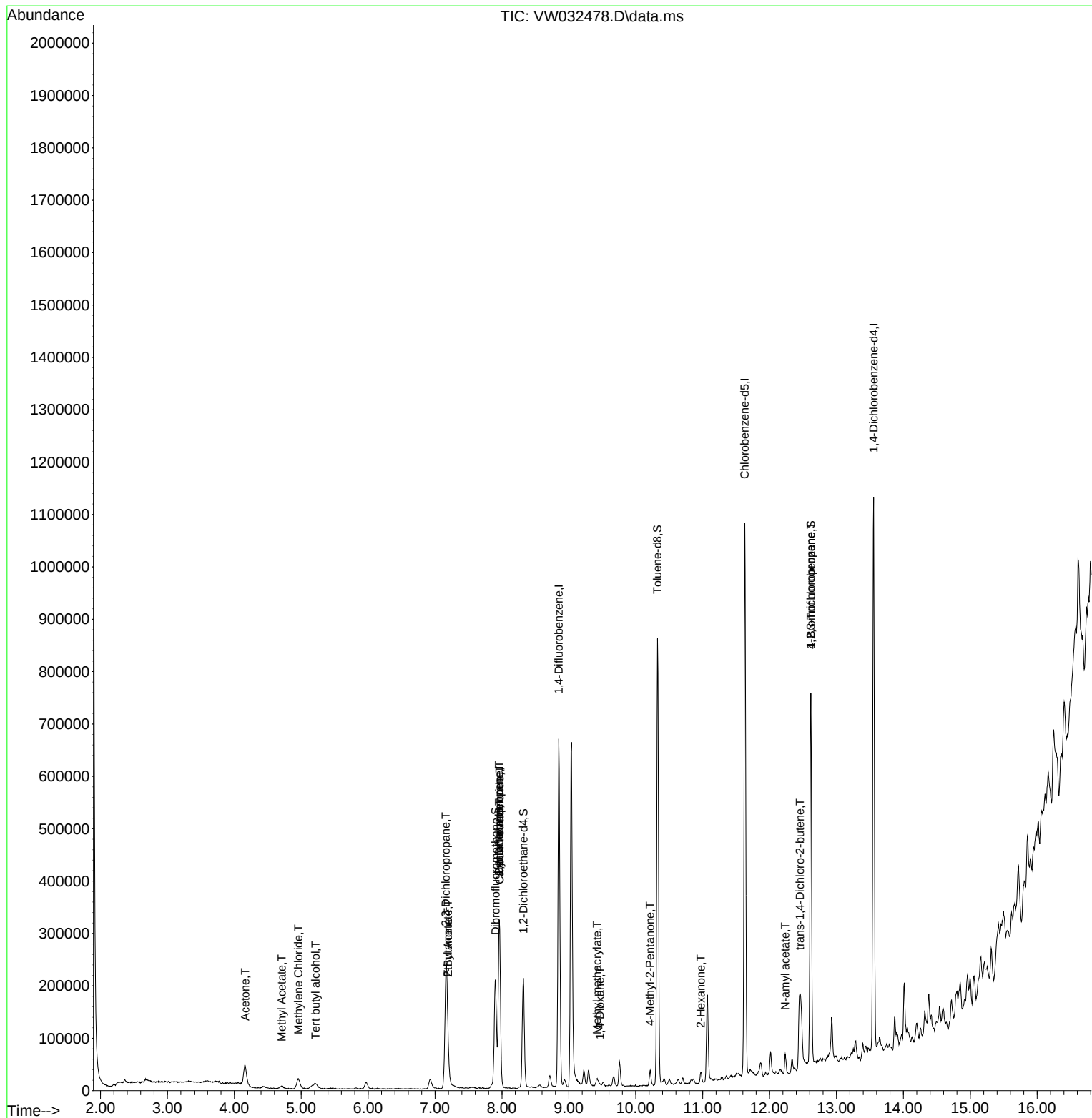
Internal Standards						
1) Pentafluorobenzene	7.959	168	232962	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	548165	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	576623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	269182	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	166410	55.407	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	110.820%
35) Dibromofluoromethane	7.905	113	156840	47.788	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.580%
50) Toluene-d8	10.325	98	569353	45.220	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	90.440%
62) 4-Bromofluorobenzene	12.617	95	261599	55.000	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	110.000%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.216	59	22336	86.005	ug/l	99
16) Acetone	4.161	43	65521	72.918	ug/l	94
18) Methyl Acetate	4.710	43	10166	4.569	ug/l	93
20) Methylene Chloride	4.960	84	16461	5.123	ug/l	96
25) 2-Butanone	7.191	43	59060	44.614	ug/l	96
26) 2,2-Dichloropropane	7.161	77	16125	5.386	ug/l #	51
31) Cyclohexane	7.959	56	6006	1.209	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	20882	4.318	ug/l #	50
37) Ethyl Acetate	7.191	43	59060	16.425	ug/l #	69
38) Carbon Tetrachloride	7.965	117	25438	5.920	ug/l #	16
48) Methyl methacrylate	9.423	41	4807	1.589	ug/l #	44
49) 1,4-Dioxane	9.465	88	2441	76.899	ug/l #	10
51) 4-Methyl-2-Pentanone	10.215	43	20781	5.904	ug/l	98
59) 2-Hexanone	10.971	43	15672	6.086	ug/l	96
74) N-amyl acetate	12.233	43	25014	3.641	ug/l #	49
76) 1,2,3-Trichloropropane	12.617	75	129500	35.086	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.452	75	14423	8.950	ug/l #	26

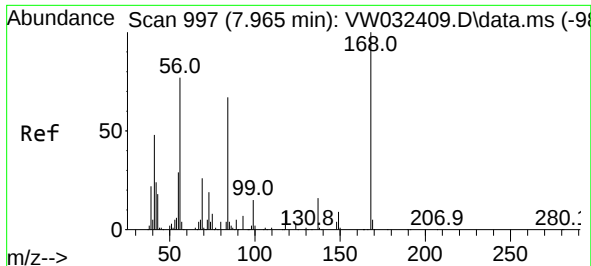
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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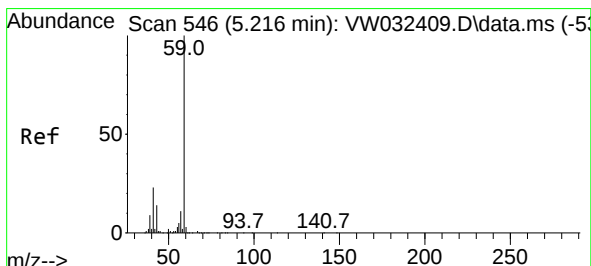
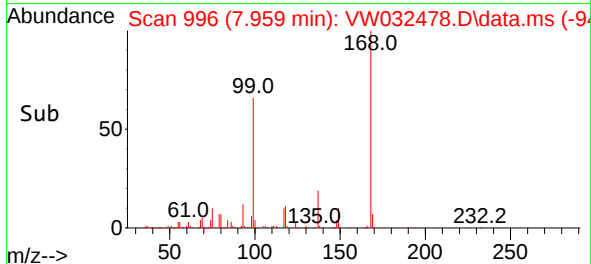
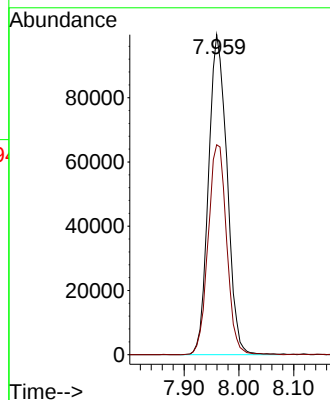
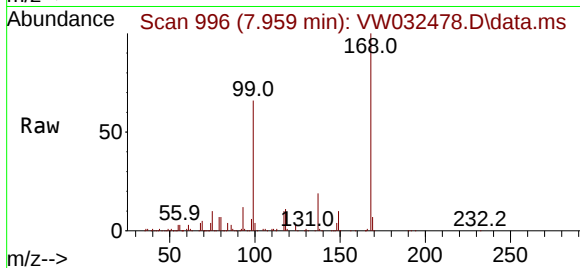




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

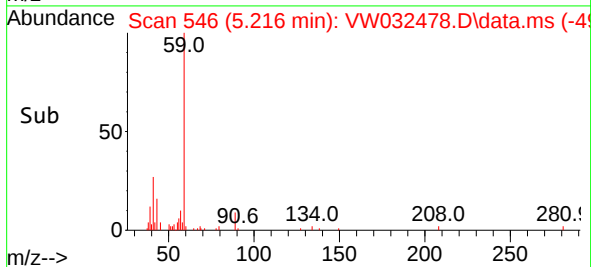
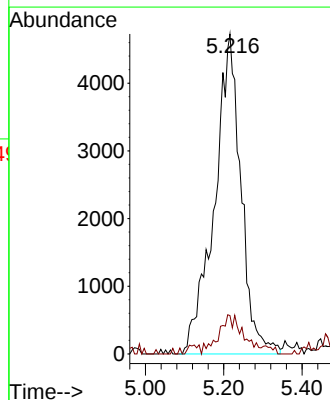
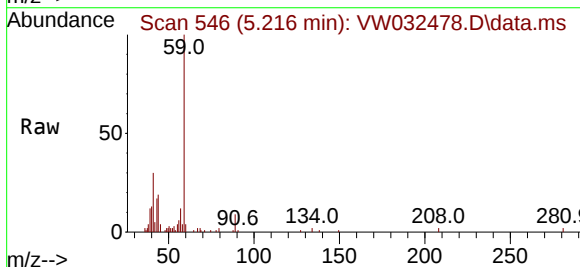
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

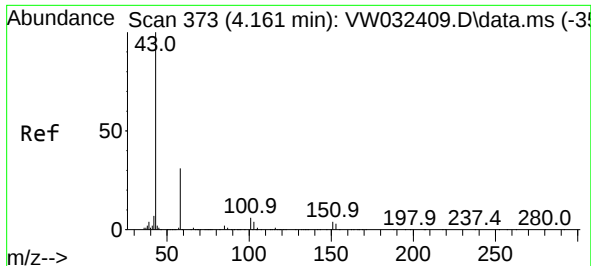
Tgt Ion:168 Resp: 232962
Ion Ratio Lower Upper
168 100
99 65.6 45.4 68.2



#11
Tert butyl alcohol
Concen: 86.005 ug/l
RT: 5.216 min Scan# 546
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion: 59 Resp: 22336
Ion Ratio Lower Upper
59 100
57 11.1 8.6 12.8

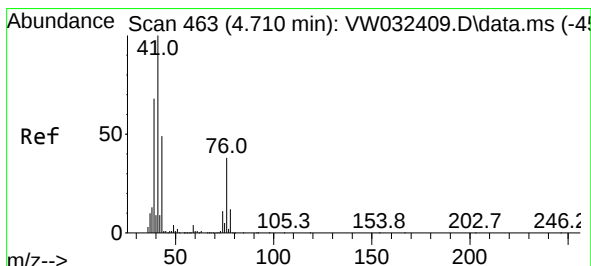
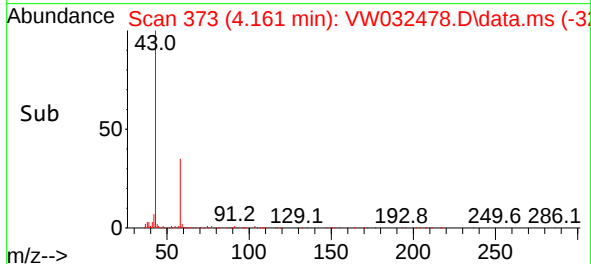
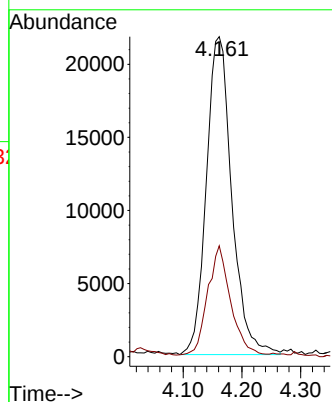
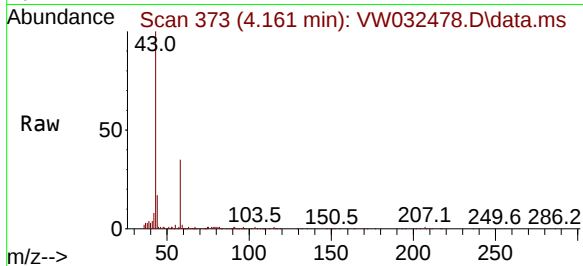




#16
Acetone
Concen: 72.918 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

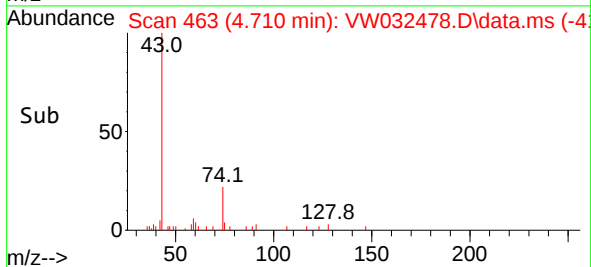
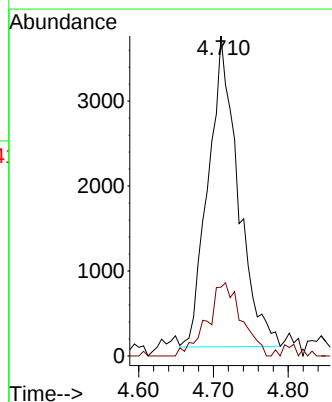
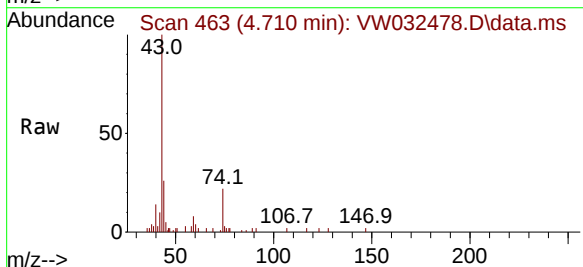
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

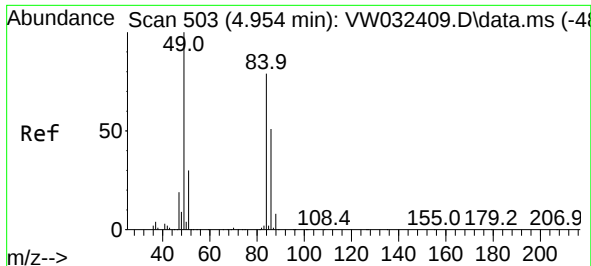
Tgt Ion: 43 Resp: 65521
Ion Ratio Lower Upper
43 100
58 34.3 24.8 37.2



#18
Methyl Acetate
Concen: 4.569 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion: 43 Resp: 10166
Ion Ratio Lower Upper
43 100
74 26.9 18.9 28.3

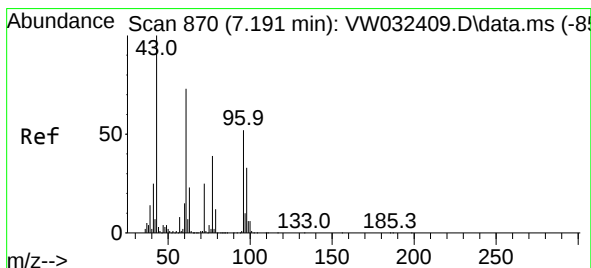
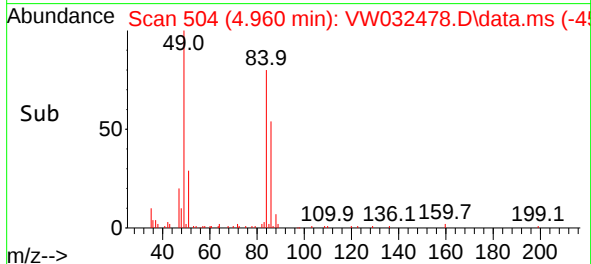
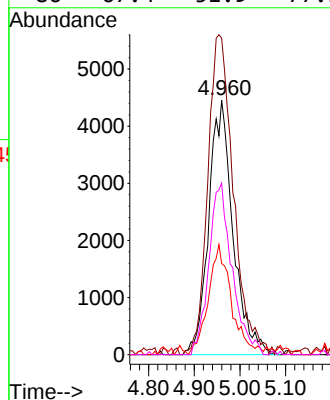
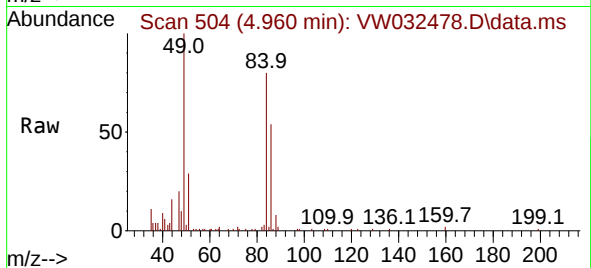




#20
Methylene Chloride
Concen: 5.123 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

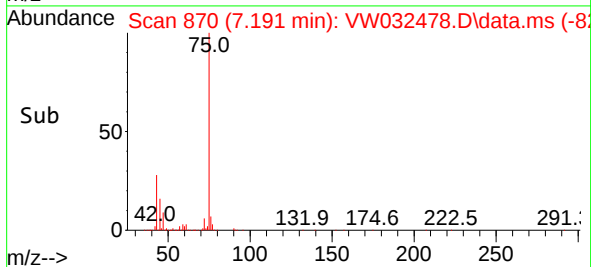
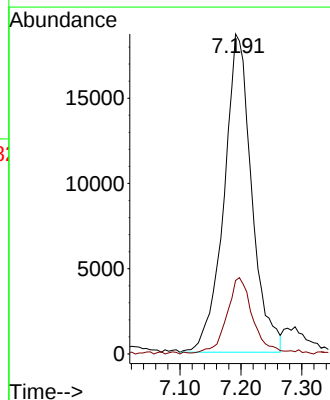
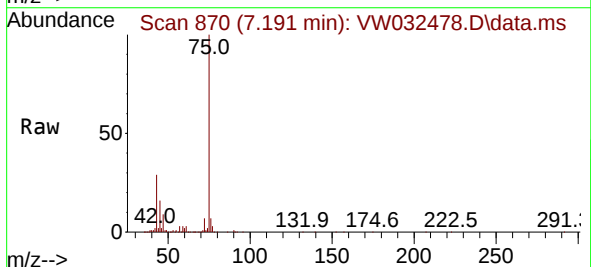
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

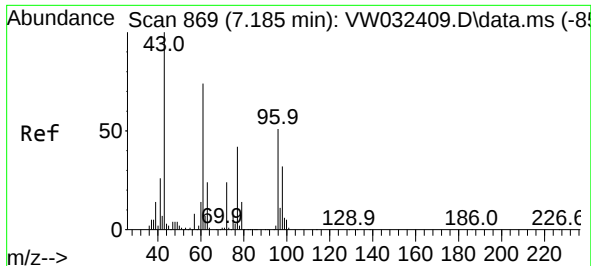
Tgt Ion:	84	Resp:	16461
Ion	Ratio	Lower	Upper
84	100		
49	124.3	101.5	152.3
51	32.2	30.6	46.0
86	67.4	51.9	77.9



#25
2-Butanone
Concen: 44.614 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion:	43	Resp:	59060
Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.0	30.0

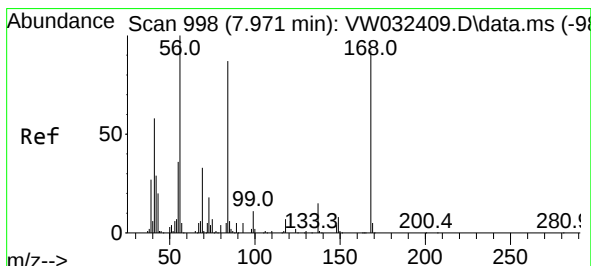
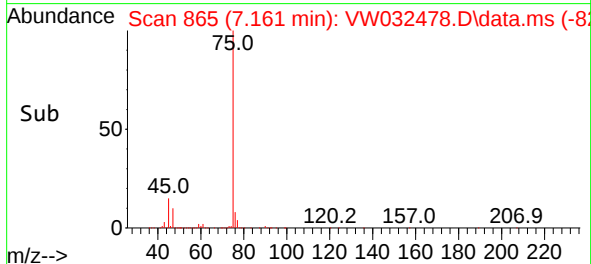
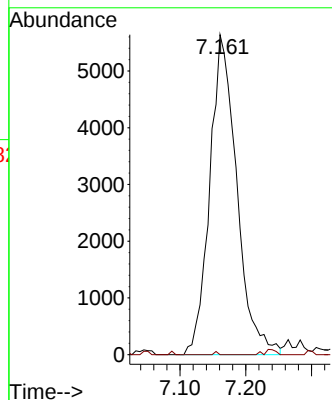
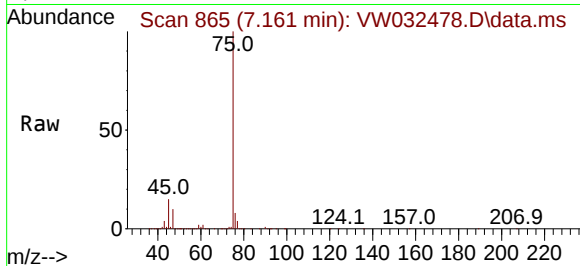




#26
2,2-Dichloropropane
Concen: 5.386 ug/l
RT: 7.161 min Scan# 865
Delta R.T. -0.024 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

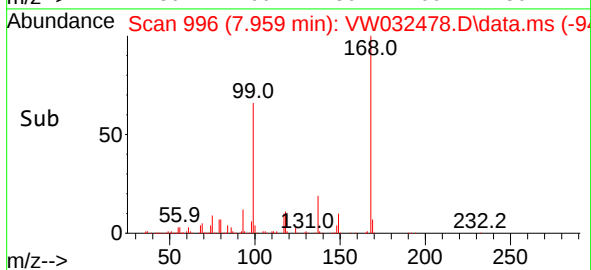
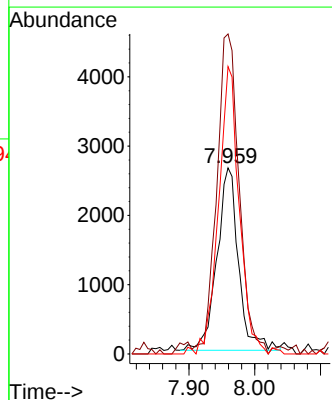
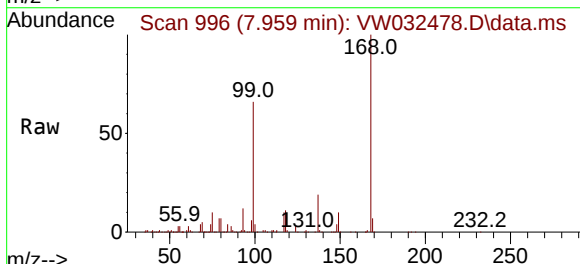
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

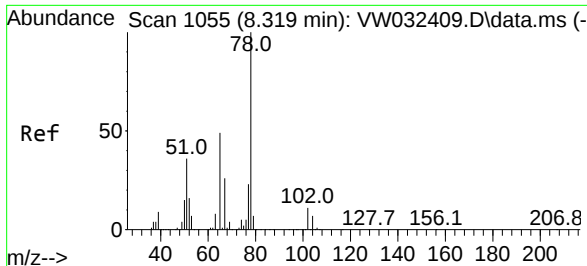
Tgt Ion: 77 Resp: 16125
Ion Ratio Lower Upper
77 100
97 0.1 12.3 36.8#



#31
Cyclohexane
Concen: 1.209 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion: 56 Resp: 6006
Ion Ratio Lower Upper
56 100
69 171.5 26.5 39.7#
84 157.6 69.6 104.4#

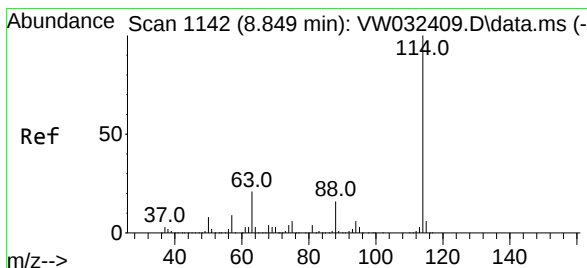
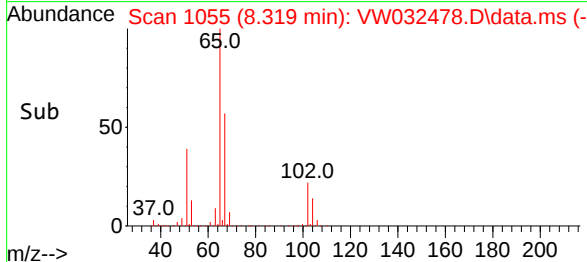
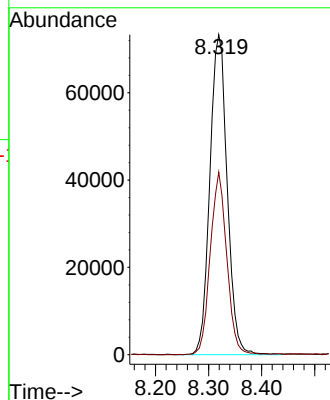
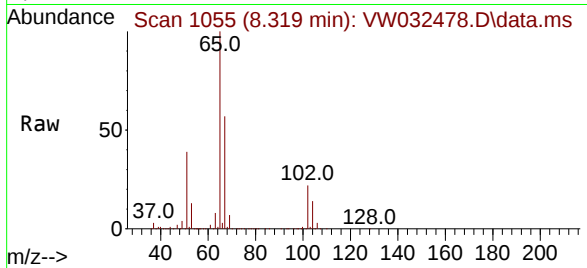




#33
 1,2-Dichloroethane-d4
 Concen: 55.407 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032478.D
 Acq: 18 Nov 2025 14:02

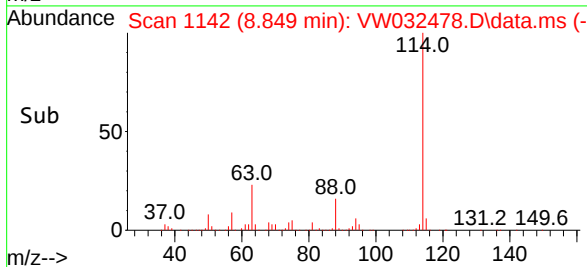
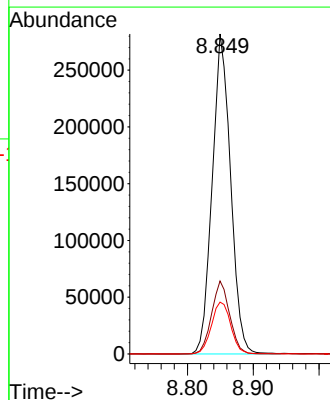
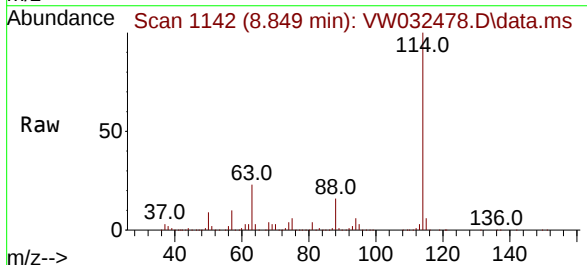
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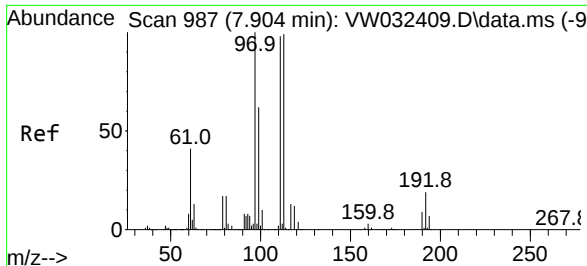
Tgt Ion: 65 Resp: 166410
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: VW032478.D
 Acq: 18 Nov 2025 14:02

Tgt Ion: 114 Resp: 548165
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 41.8
 88 16.2 0.0 32.6

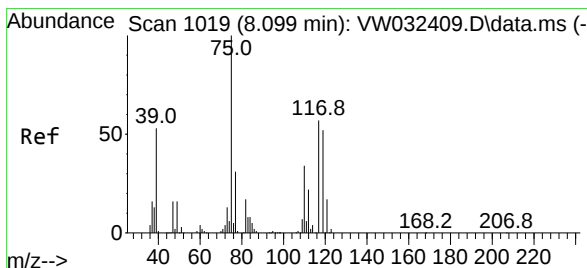
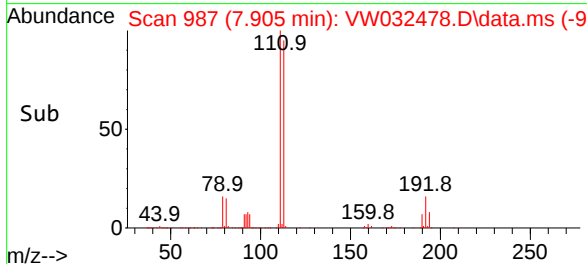
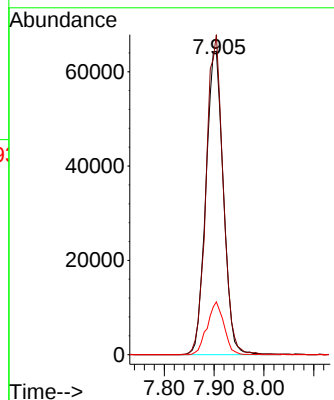
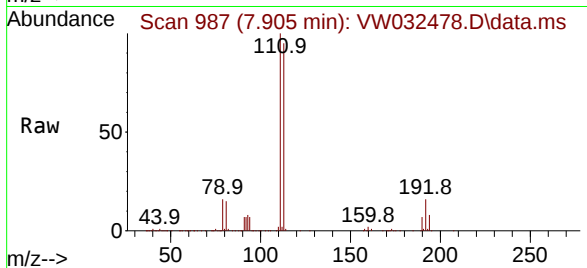




#35
 Dibromofluoromethane
 Concen: 47.788 ug/l
 RT: 7.905 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: VW032478.D
 Acq: 18 Nov 2025 14:02

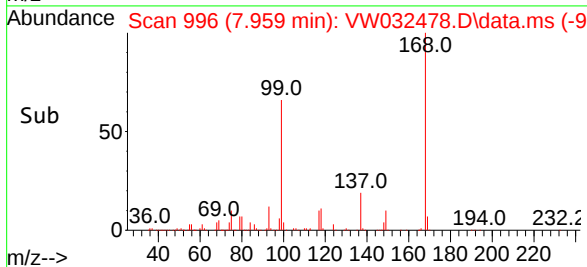
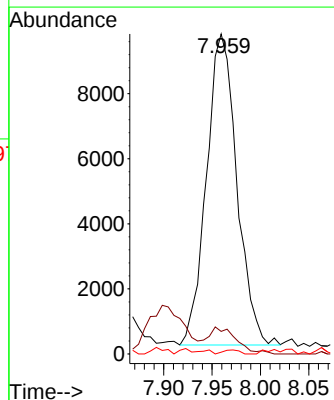
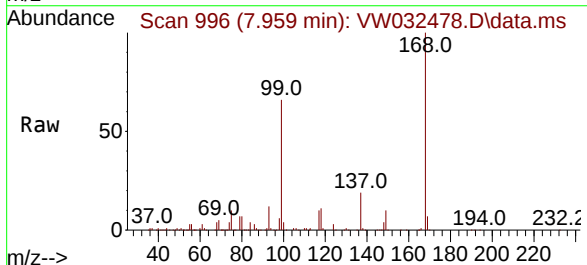
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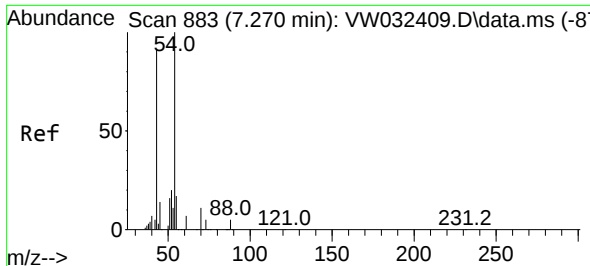
Tgt Ion:113 Resp: 156840
 Ion Ratio Lower Upper
 113 100
 111 102.2 83.1 124.7
 192 16.8 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 4.318 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032478.D
 Acq: 18 Nov 2025 14:02

Tgt Ion: 75 Resp: 20882
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.2 51.5#
 77 0.7 24.5 36.7#

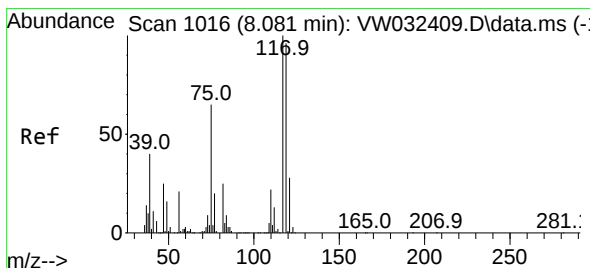
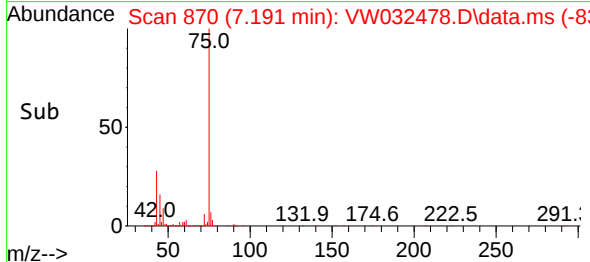
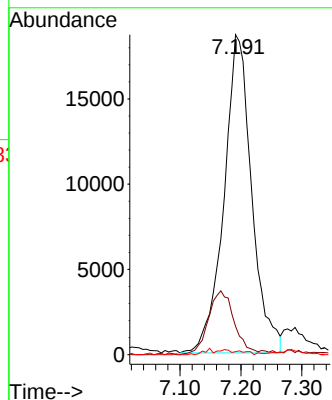
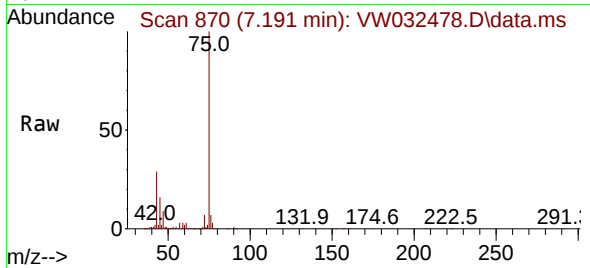




#37
Ethyl Acetate
Concen: 16.425 ug/l
RT: 7.191 min Scan# 81
Delta R.T. -0.079 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

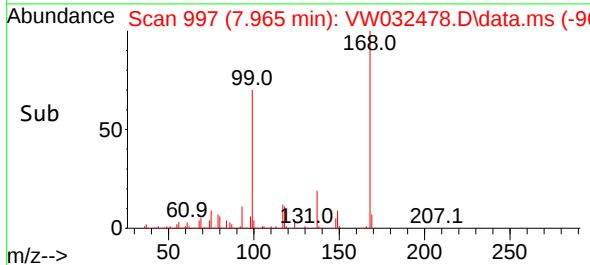
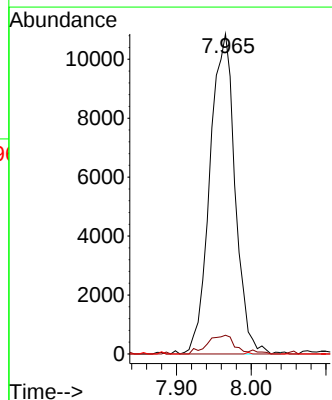
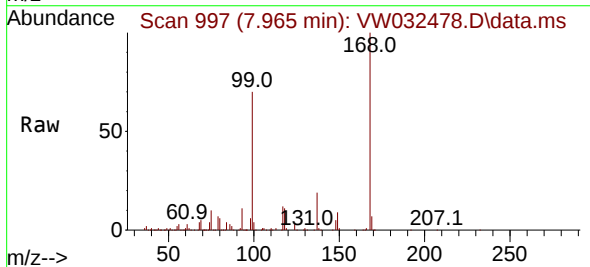
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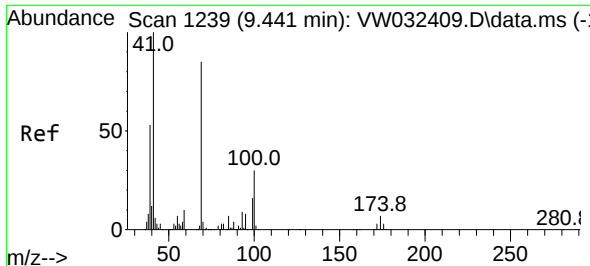
Tgt Ion: 43 Resp: 59060
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.920 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.116 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion: 117 Resp: 25438
Ion Ratio Lower Upper
117 100
119 5.8 77.0 115.4#
121 0.0 22.0 33.0#





#48

Methyl methacrylate

Concen: 1.589 ug/l

RT: 9.423 min Scan# 11

Delta R.T. -0.018 min

Lab File: VW032478.D

Acq: 18 Nov 2025 14:02

Instrument :

MSVOA_W

ClientSampleId :

LAW-25-0182

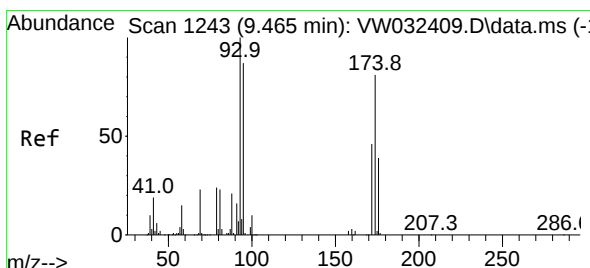
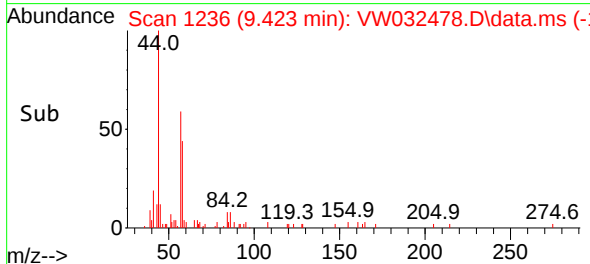
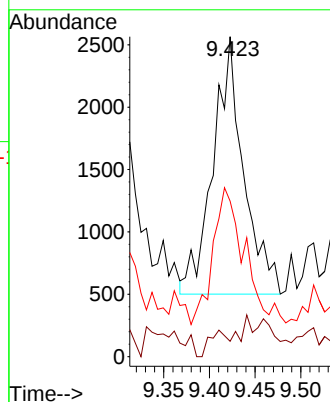
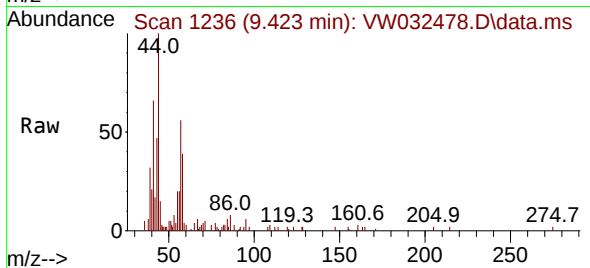
Tgt Ion: 41 Resp: 4807

Ion Ratio Lower Upper

41 100

69 6.2 65.8 98.6#

39 52.8 38.6 57.8



#49

1,4-Dioxane

Concen: 76.899 ug/l

RT: 9.465 min Scan# 1243

Delta R.T. 0.000 min

Lab File: VW032478.D

Acq: 18 Nov 2025 14:02

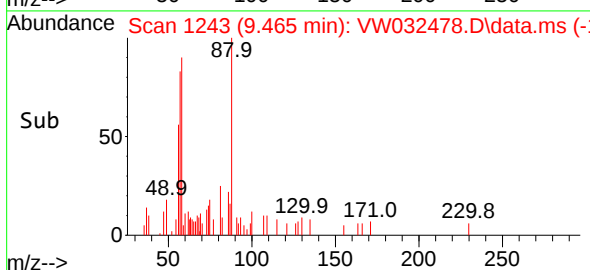
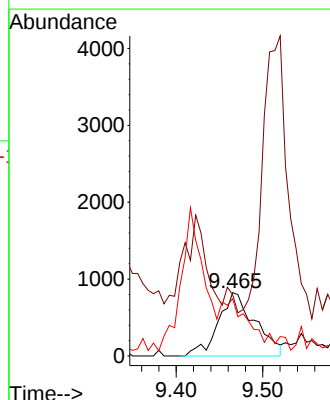
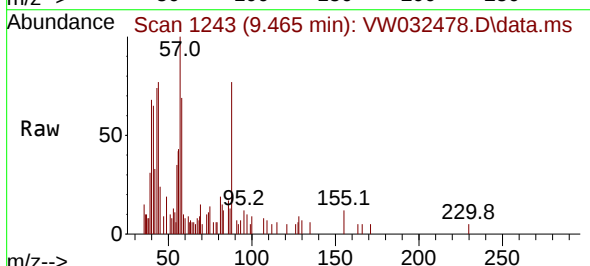
Tgt Ion: 88 Resp: 2441

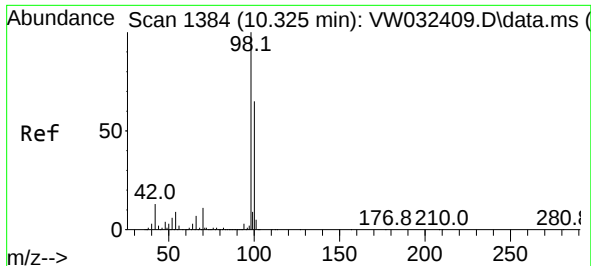
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 63.0 94.4#

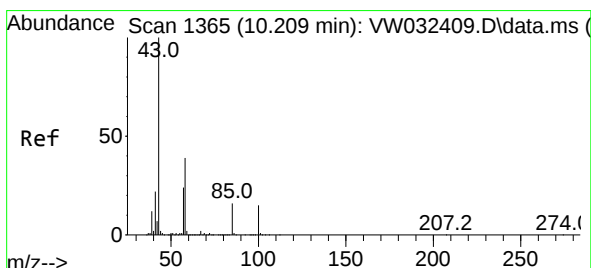
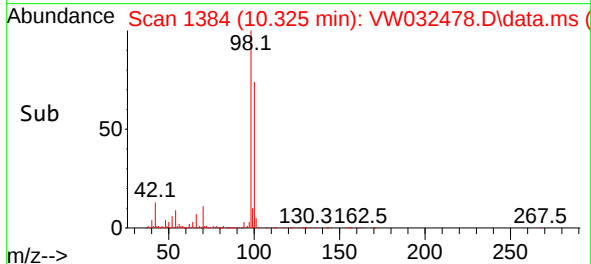
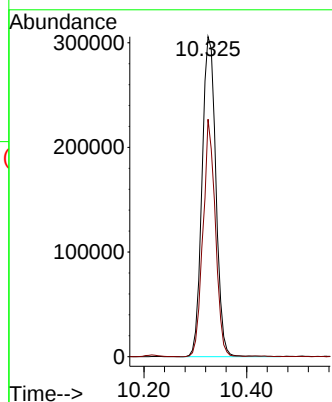
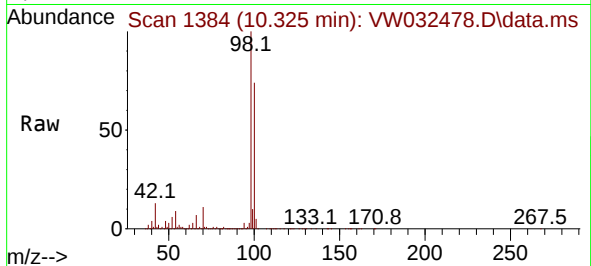




#50
Toluene-d8
Concen: 45.220 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

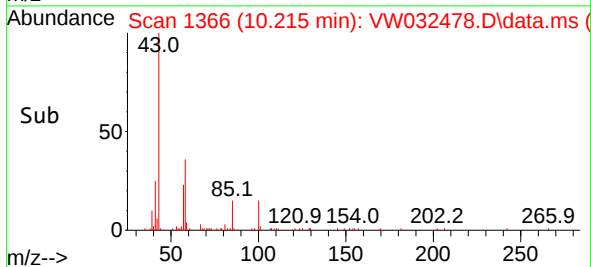
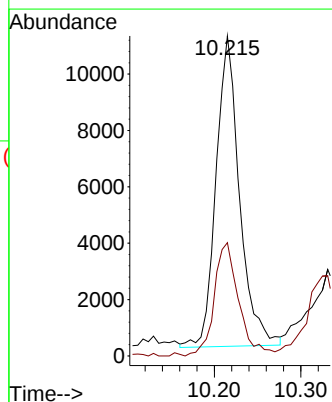
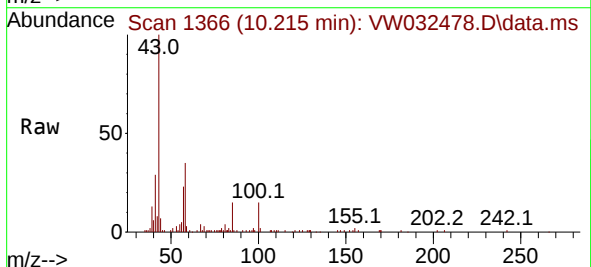
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

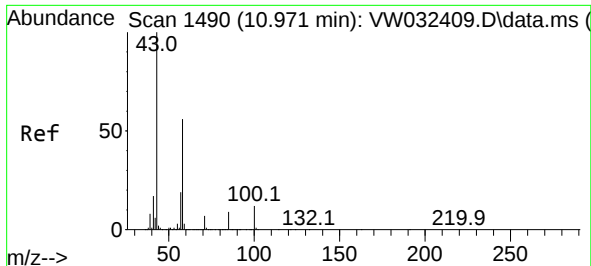
Tgt Ion: 98 Resp: 569353
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 5.904 ug/l
RT: 10.215 min Scan# 1366
Delta R.T. 0.006 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion: 43 Resp: 20781
Ion Ratio Lower Upper
43 100
58 38.0 31.4 47.2

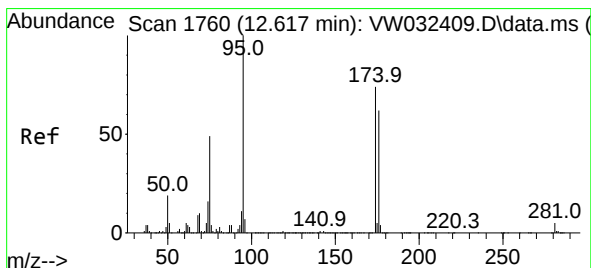
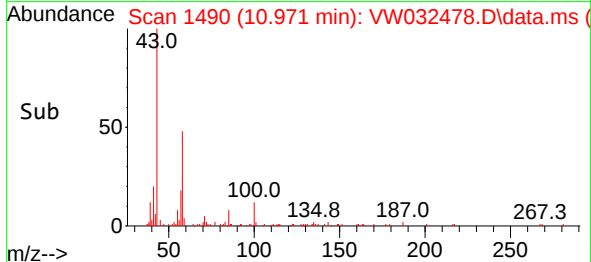
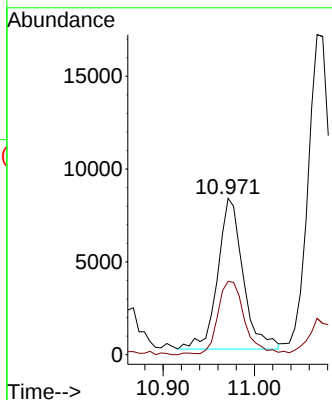
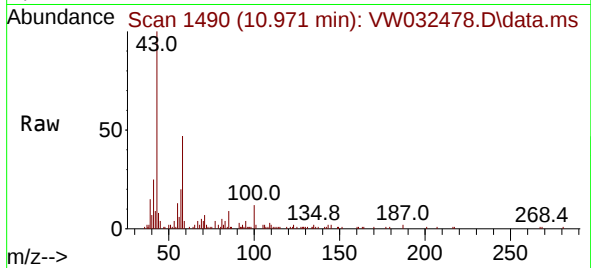




#59
2-Hexanone
Concen: 6.086 ug/l
RT: 10.971 min Scan# 1490
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

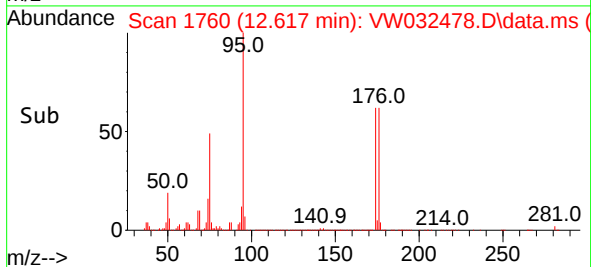
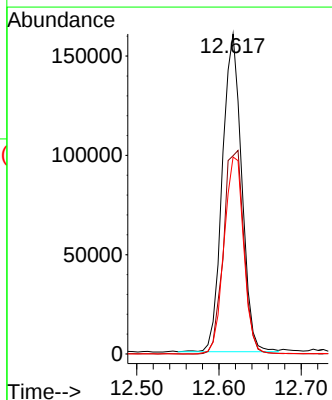
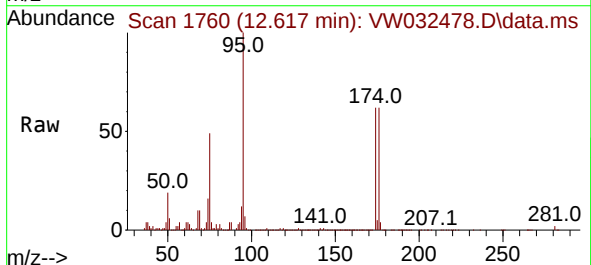
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

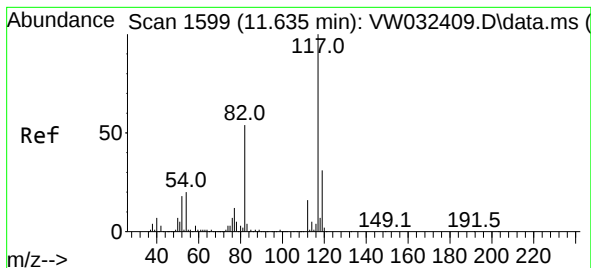
Tgt Ion: 43 Resp: 15672
Ion Ratio Lower Upper
43 100
58 52.1 27.4 82.2



#62
4-Bromofluorobenzene
Concen: 55.000 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion: 95 Resp: 261599
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.4
176 63.3 0.0 131.8

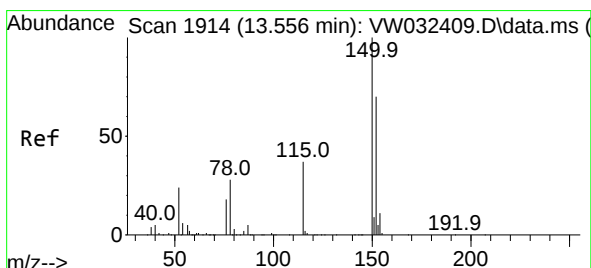
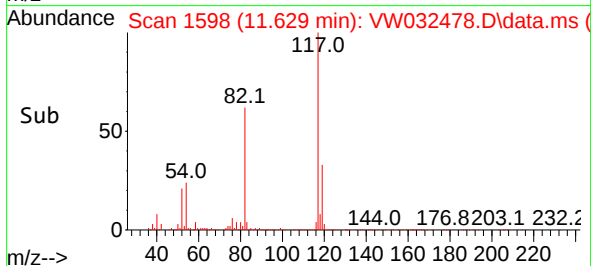
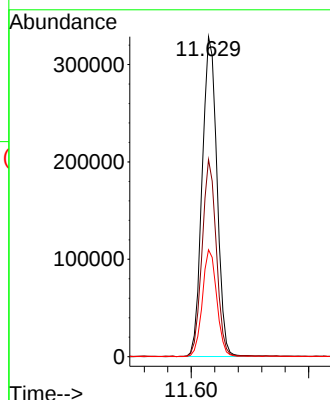
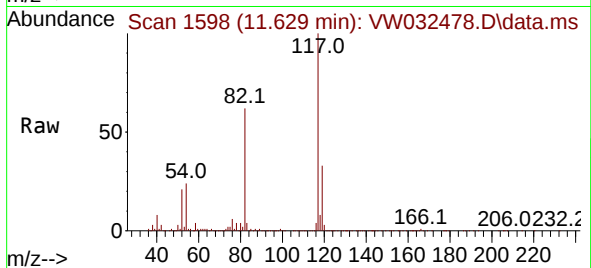




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

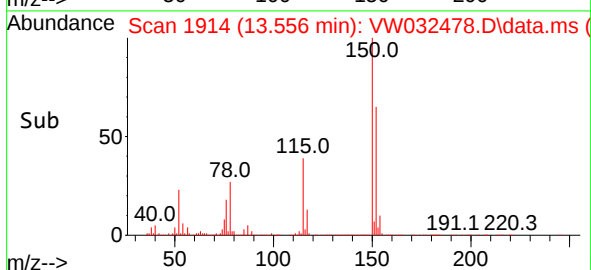
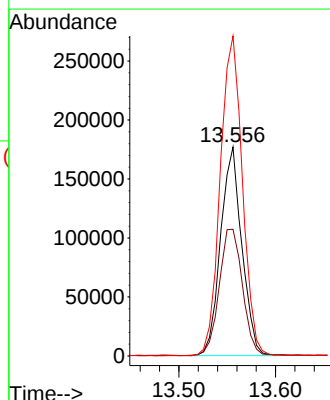
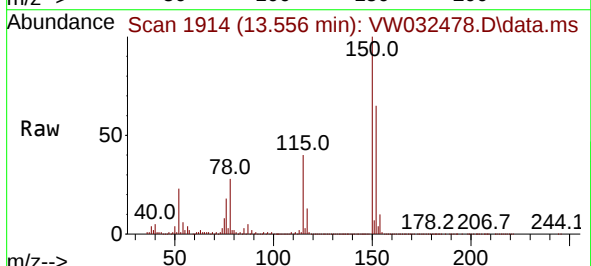
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

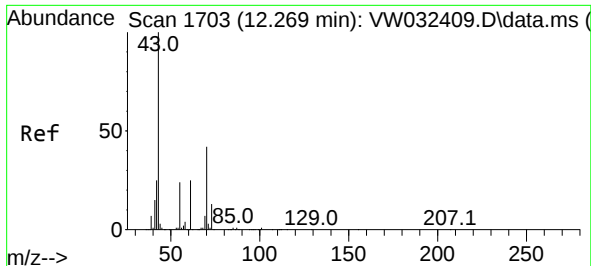
Tgt Ion:117 Resp: 576623
Ion Ratio Lower Upper
117 100
82 61.4 43.0 64.4
119 33.4 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion:152 Resp: 269182
Ion Ratio Lower Upper
152 100
115 66.1 32.8 98.3
150 160.0 0.0 356.6

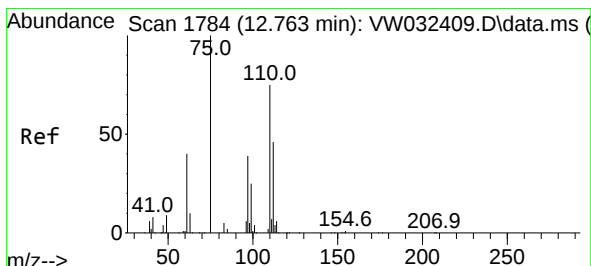
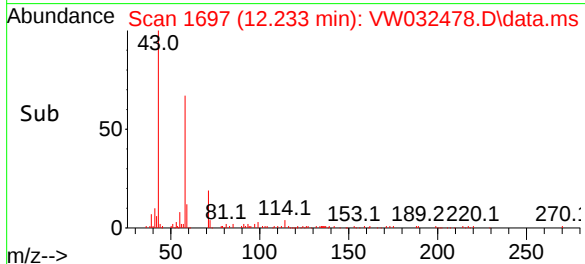
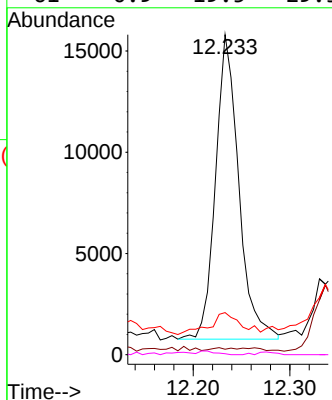
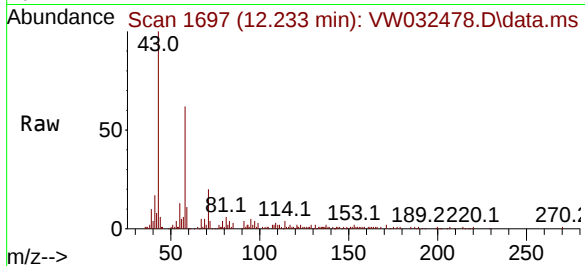




#74
N-amy1 acetate
Concen: 3.641 ug/l
RT: 12.233 min Scan# 1
Delta R.T. -0.036 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

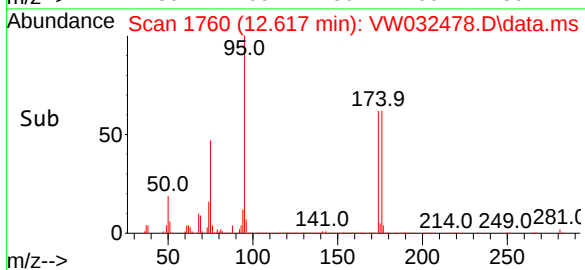
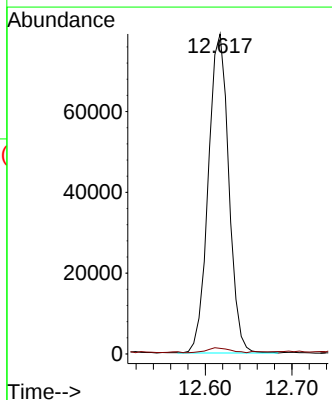
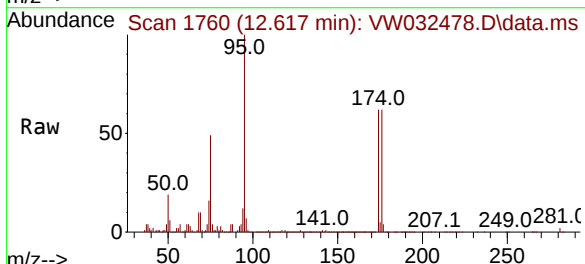
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

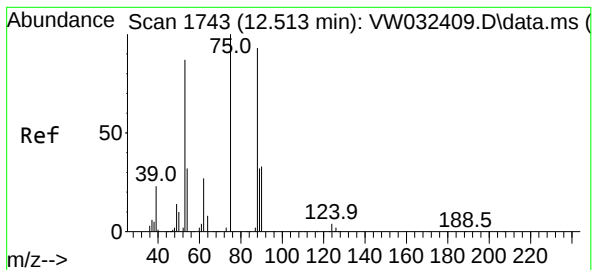
Tgt Ion:	43	Resp:	25014
Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.5	50.3#
55	9.5	19.3	28.9#
61	0.9	19.5	29.3#



#76
1,2,3-Trichloropropane
Concen: 35.086 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Tgt Ion:	75	Resp:	129500
Ion	Ratio	Lower	Upper
75	100		
77	1.7	151.6	454.8#





#81
trans-1,4-Dichloro-2-butene
Concen: 8.950 ug/l
RT: 12.452 min Scan# 11
Delta R.T. -0.061 min
Lab File: VW032478.D
Acq: 18 Nov 2025 14:02

Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0182

Tgt Ion: 75 Resp: 14423
Ion Ratio Lower Upper
75 100
53 18.4 77.8 116.8#
89 4.2 35.6 53.4#

