

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111725\
 Data File : VW032462.D
 Acq On : 17 Nov 2025 16:45
 Operator : SY/MD
 Sample : Q3648-01
 Misc : 5.69g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-111425

Quant Time: Nov 18 03:06:50 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)

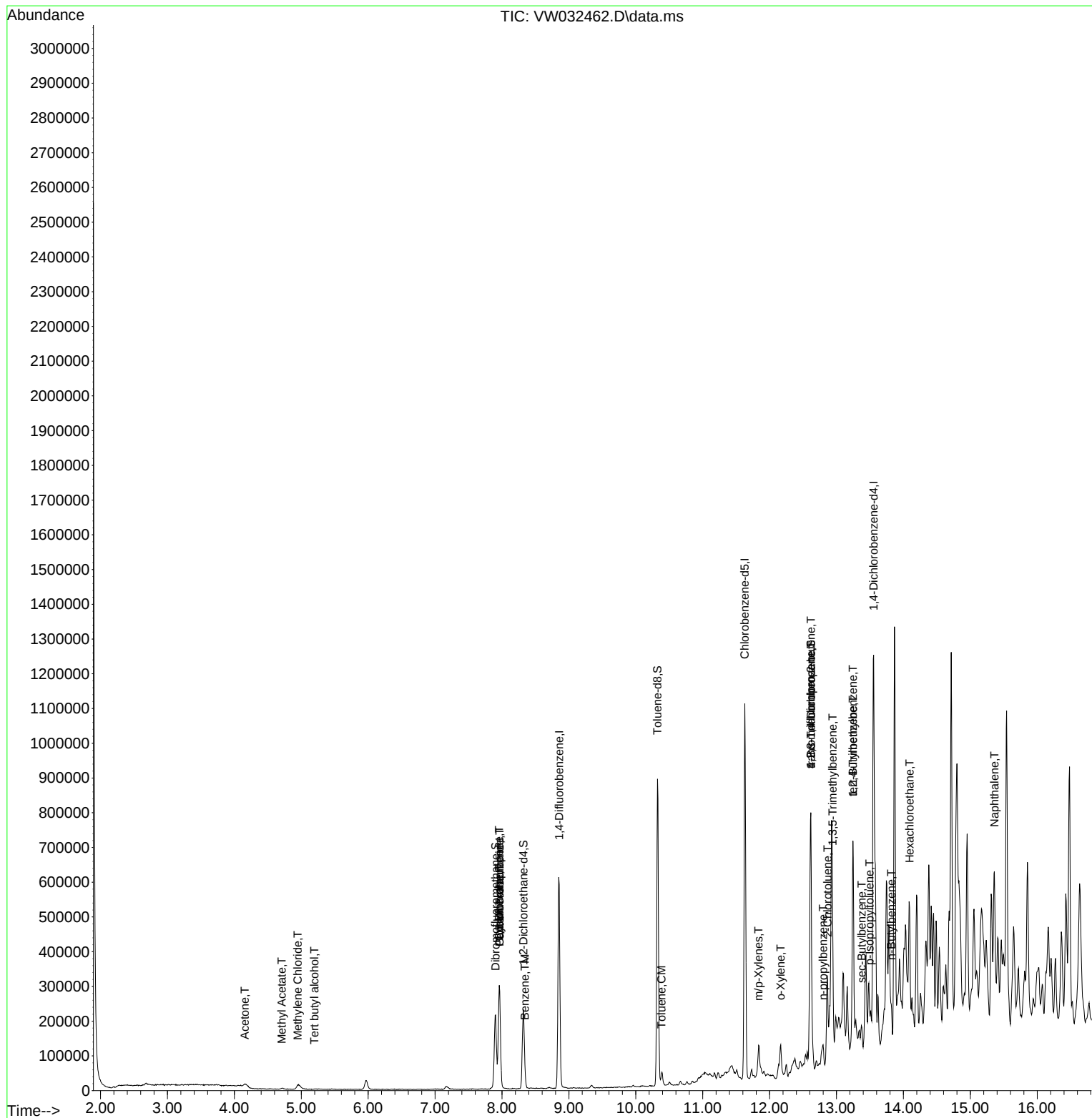
Internal Standards						
1) Pentafluorobenzene	7.965	168	207770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	516657	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	579293	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	279437	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	170163	63.526	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 127.060%			
35) Dibromofluoromethane	7.904	113	157651	50.965	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 101.920%			
50) Toluene-d8	10.325	98	569918	48.025	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 96.040%			
62) 4-Bromofluorobenzene	12.617	95	236503	52.756	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 105.520%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.197	59	547	2.362	ug/l #	72
16) Acetone	4.155	43	10064	12.558	ug/l	96
18) Methyl Acetate	4.710	43	6977	3.516	ug/l	95
20) Methylene Chloride	4.947	84	11154	3.892	ug/l	91
31) Cyclohexane	7.959	56	6468	1.460	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	18961	4.160	ug/l #	52
38) Carbon Tetrachloride	7.965	117	21893	5.406	ug/l #	16
40) Benzene	8.343	78	21441	1.461	ug/l	96
52) Toluene	10.386	92	15405	1.699	ug/l	96
68) m/p-Xylenes	11.836	106	15693	1.935	ug/l	99
69) o-Xylene	12.166	106	22409	2.885	ug/l	99
76) 1,2,3-Trichloropropane	12.617	75	118091	30.821	ug/l #	1
78) n-propylbenzene	12.800	91	50166	2.007	ug/l	97
79) 2-Chlorotoluene	12.867	91	17936	1.176	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.940	105	144222	8.518	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.617	75	118091	70.593	ug/l #	12
83) tert-Butylbenzene	13.245	119	40508	2.750	ug/l #	61
84) 1,2,4-Trimethylbenzene	13.245	105	332563	19.311	ug/l	97
85) sec-Butylbenzene	13.379	105	39151	1.785	ug/l #	76
86) p-Isopropyltoluene	13.495	119	30708	1.696	ug/l	100
89) n-Butylbenzene	13.818	91	51245	2.896	ug/l #	75
90) Hexachloroethane	14.092	117	16411	5.026	ug/l #	18
95) Naphthalene	15.360	128	340420	25.365	ug/l	98

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

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QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

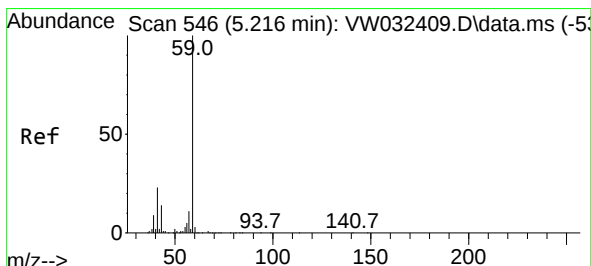
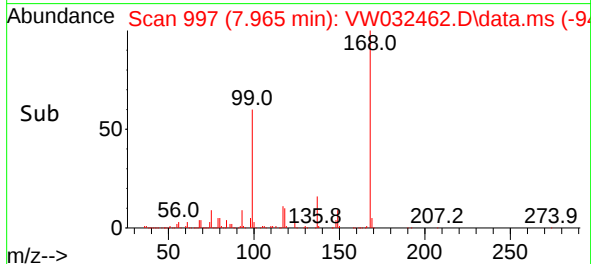
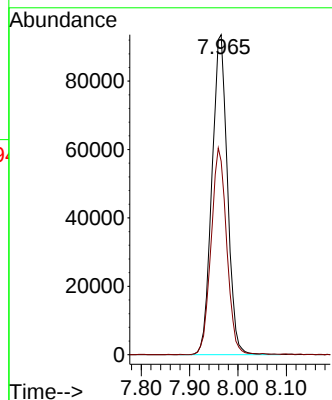
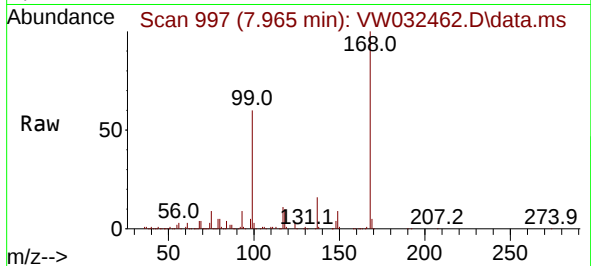




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

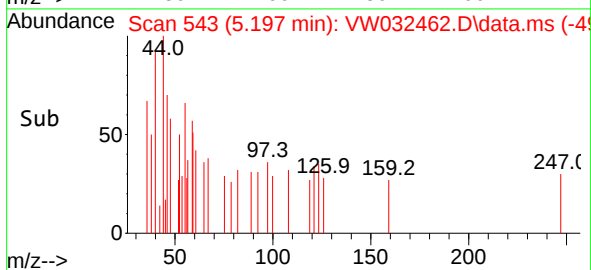
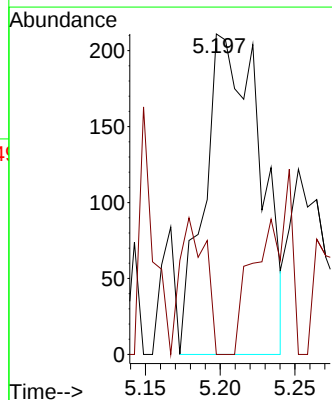
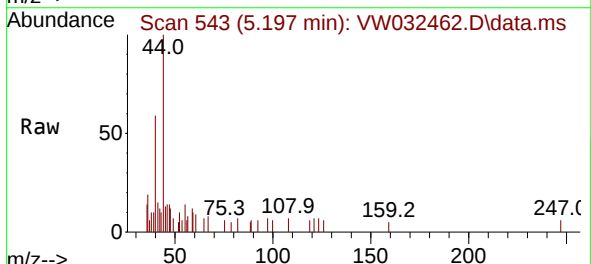
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

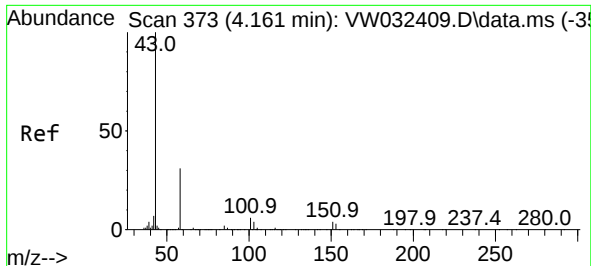
Tgt Ion:168 Resp: 207770
Ion Ratio Lower Upper
168 100
99 60.4 45.4 68.2



#11
Tert butyl alcohol
Concen: 2.362 ug/l
RT: 5.197 min Scan# 543
Delta R.T. -0.018 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 59 Resp: 547
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

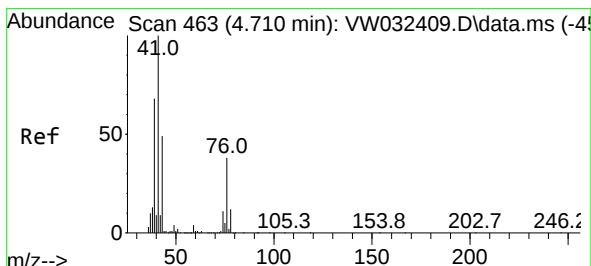
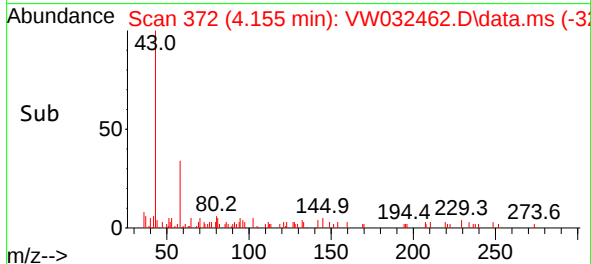
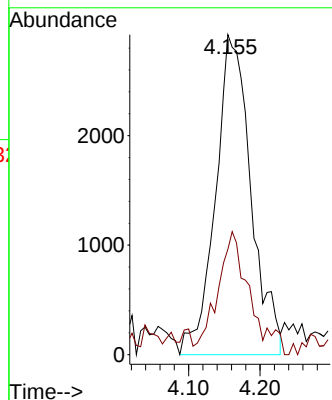
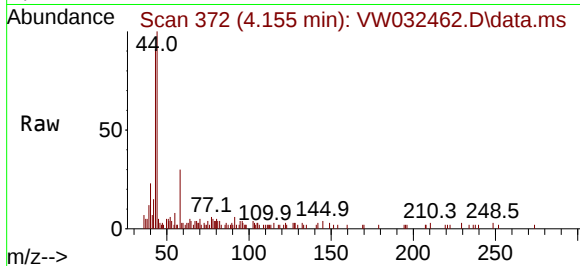




#16
Acetone
Concen: 12.558 ug/l
RT: 4.155 min Scan# 31
Delta R.T. -0.006 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

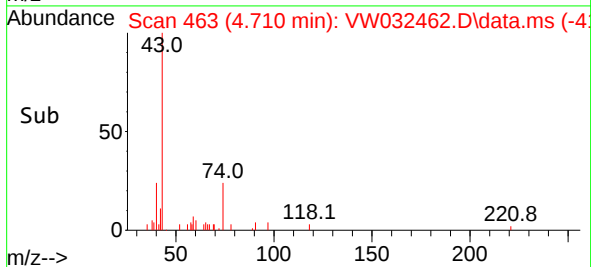
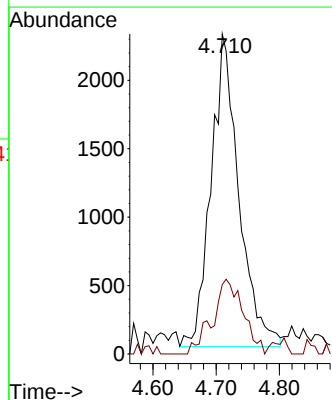
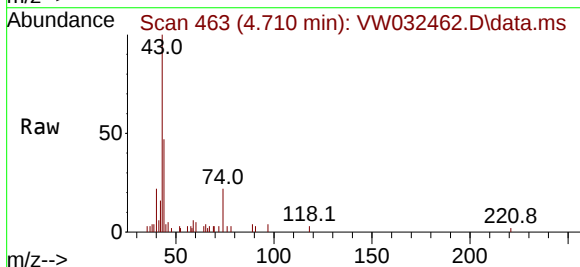
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

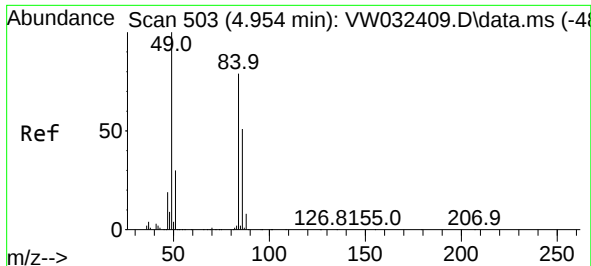
Tgt Ion: 43 Resp: 10064
Ion Ratio Lower Upper
43 100
58 29.1 24.8 37.2



#18
Methyl Acetate
Concen: 3.516 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 43 Resp: 6977
Ion Ratio Lower Upper
43 100
74 26.2 18.9 28.3

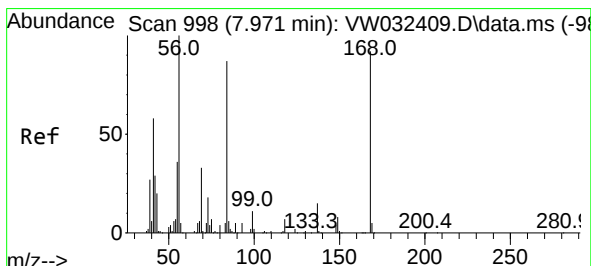
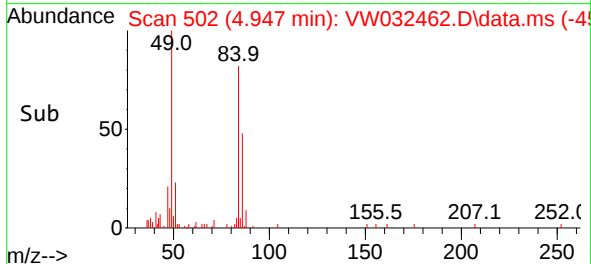
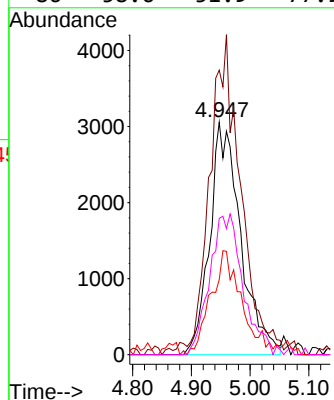
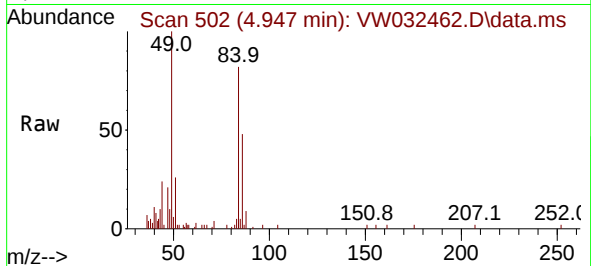




#20
Methylene Chloride
Concen: 3.892 ug/l
RT: 4.947 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

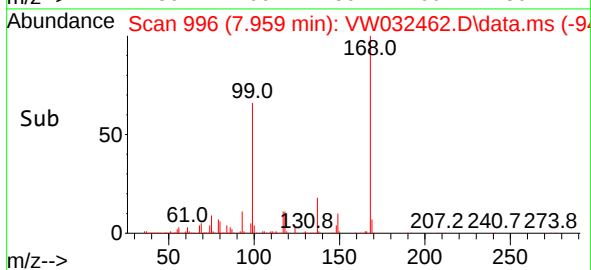
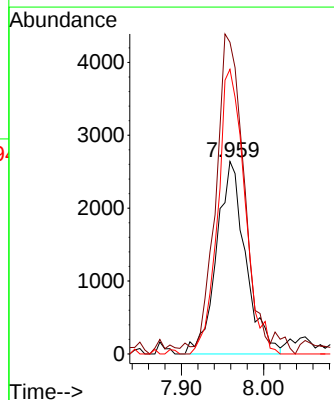
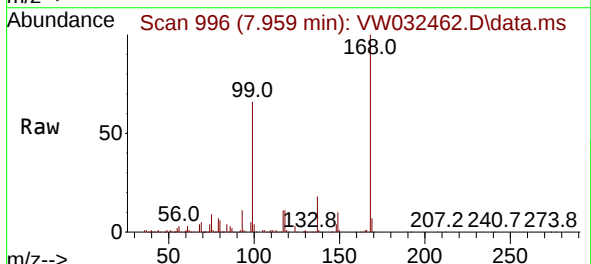
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

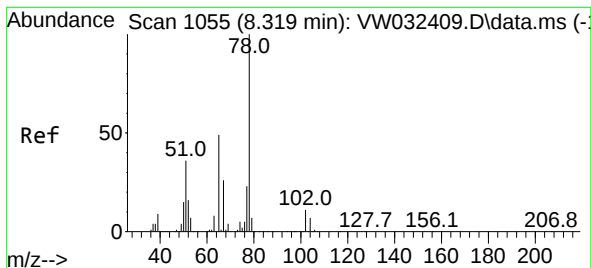
Tgt Ion:	84	Resp:	11154
Ion	Ratio	Lower	Upper
84	100		
49	117.0	101.5	152.3
51	32.4	30.6	46.0
86	58.6	51.9	77.9



#31
Cyclohexane
Concen: 1.460 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion:	56	Resp:	6468
Ion	Ratio	Lower	Upper
56	100		
69	159.1	26.5	39.7#
84	147.9	69.6	104.4#





#33

1,2-Dichloroethane-d4

Concen: 63.526 ug/l

RT: 8.319 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VW032462.D

Acq: 17 Nov 2025 16:45

Instrument :

MSVOA_W

ClientSampleId :

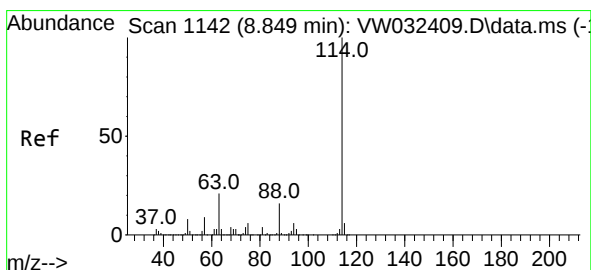
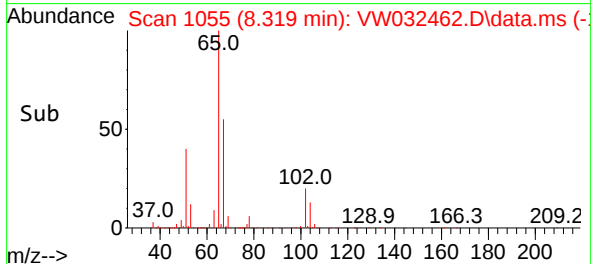
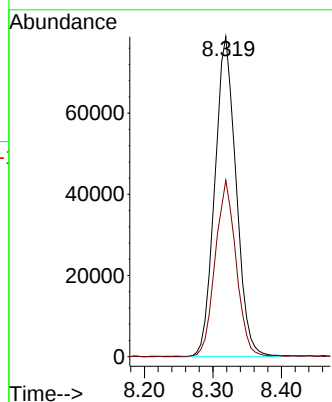
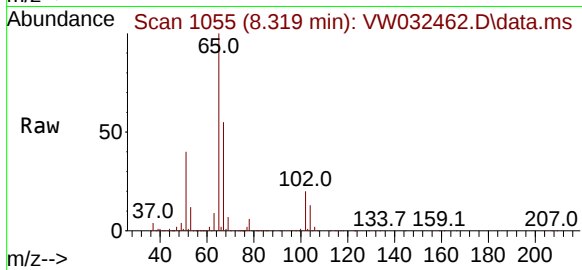
OR-02-111425

Tgt Ion: 65 Resp: 170163

Ion Ratio Lower Upper

65 100

67 53.6 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: VW032462.D

Acq: 17 Nov 2025 16:45

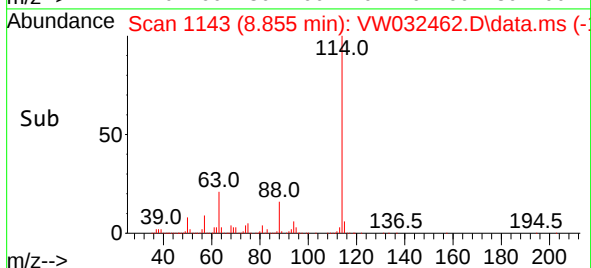
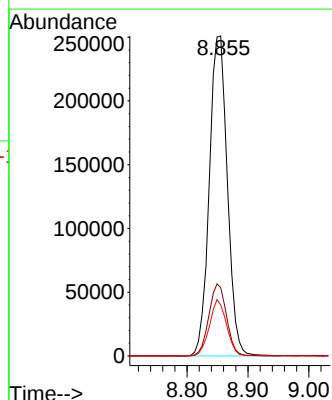
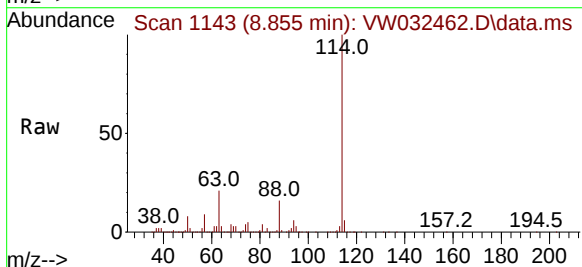
Tgt Ion: 114 Resp: 516657

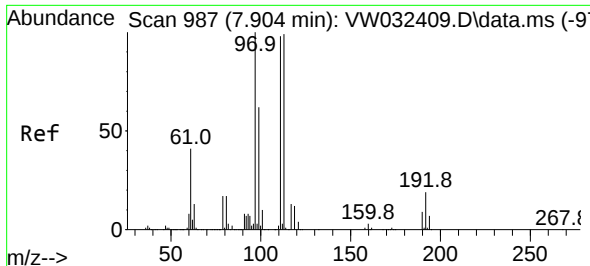
Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.8

88 16.0 0.0 32.6

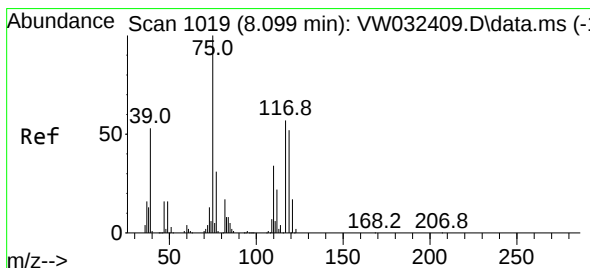
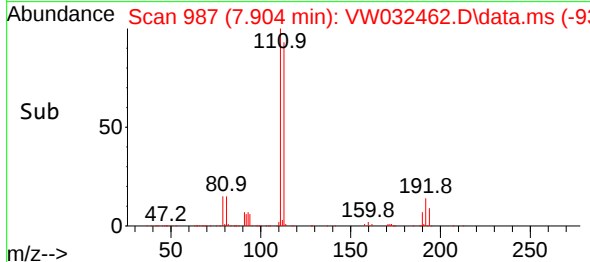
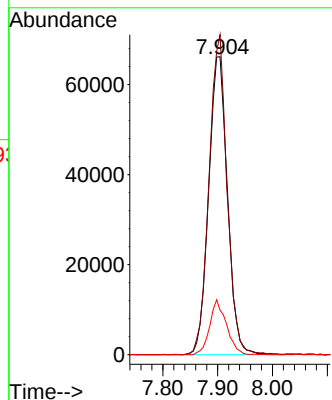
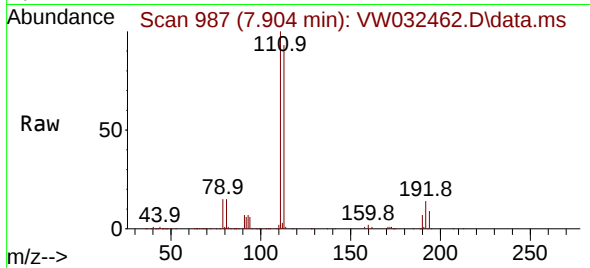




#35
Dibromofluoromethane
Concen: 50.965 ug/l
RT: 7.904 min Scan# 911
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

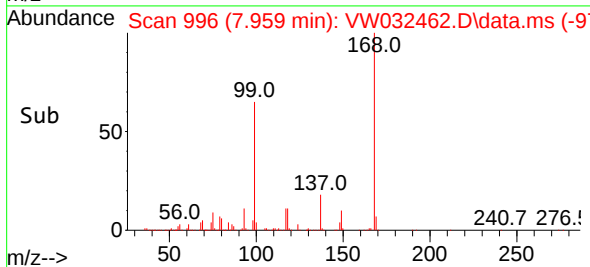
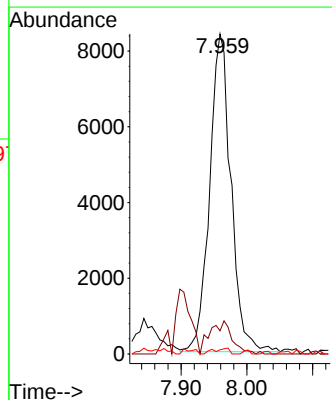
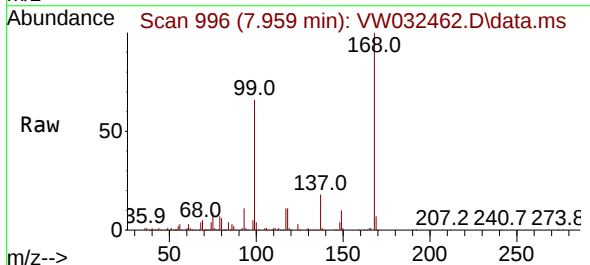
Instrument :
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ClientSampleId :
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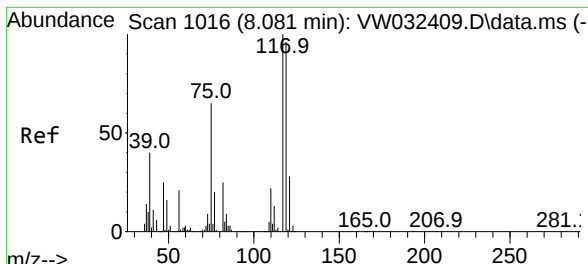
Tgt Ion:113 Resp: 157651
Ion Ratio Lower Upper
113 100
111 103.0 83.1 124.7
192 16.4 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.160 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 75 Resp: 18961
Ion Ratio Lower Upper
75 100
110 10.9 17.2 51.5#
77 0.0 24.5 36.7#

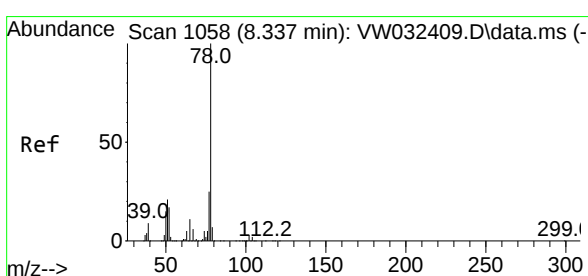
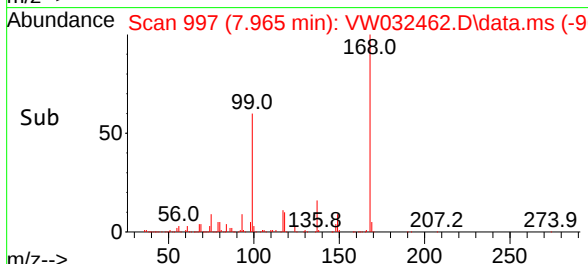
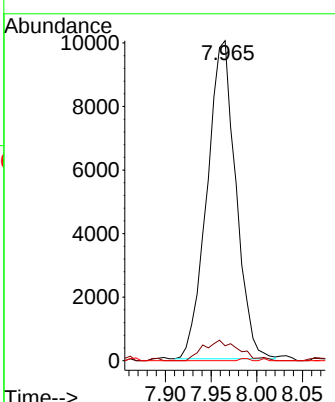
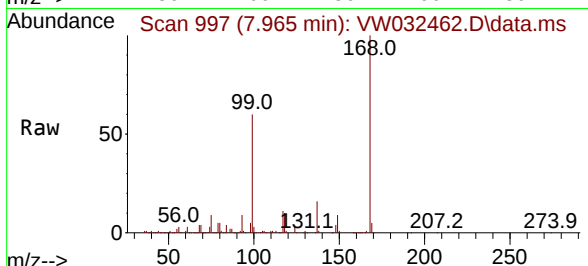




#38
Carbon Tetrachloride
Concen: 5.406 ug/l
RT: 7.965 min Scan# 99
Delta R.T. -0.116 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

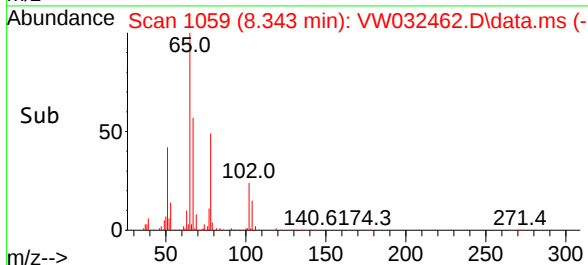
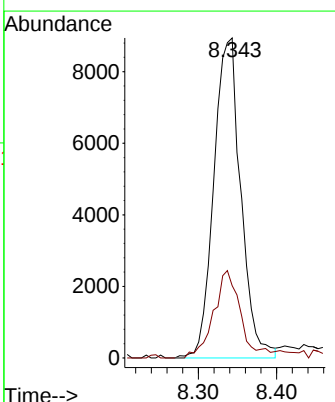
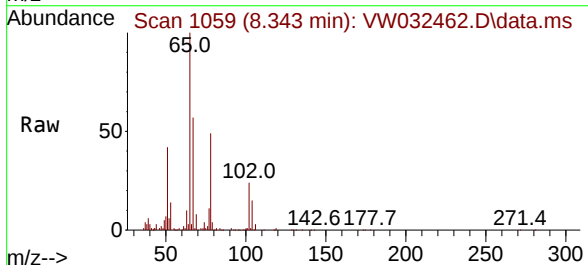
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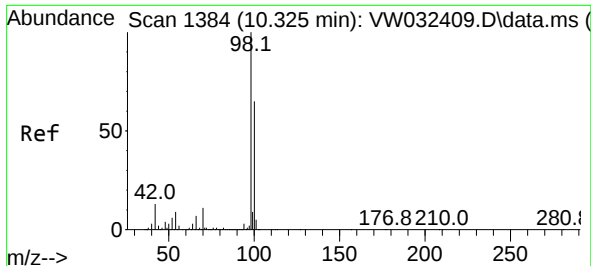
Tgt Ion:	117	Resp:	21893
Ion Ratio	Lower	Upper	
117	100		
119	4.7	77.0	115.4#
121	0.0	22.0	33.0#



#40
Benzene
Concen: 1.461 ug/l
RT: 8.343 min Scan# 1059
Delta R.T. 0.006 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion:	78	Resp:	21441
Ion Ratio	Lower	Upper	
78	100		
77	22.6	19.6	29.4

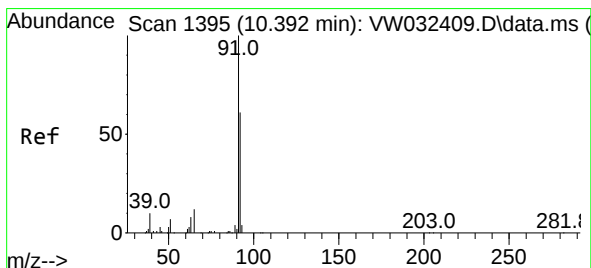
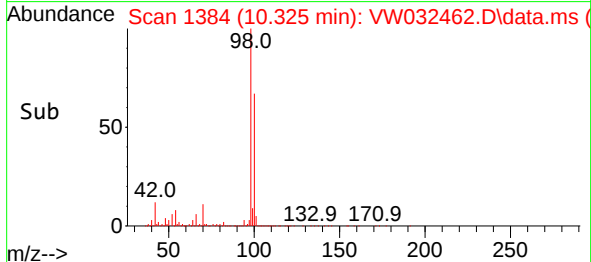
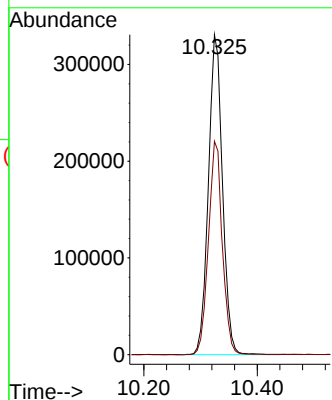
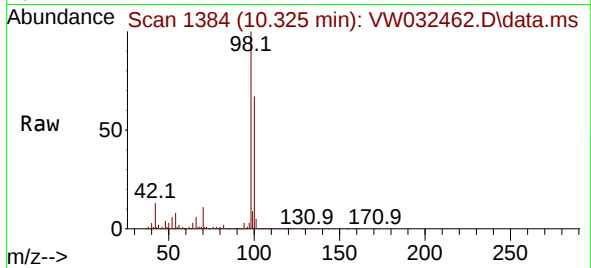




#50
Toluene-d8
Concen: 48.025 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

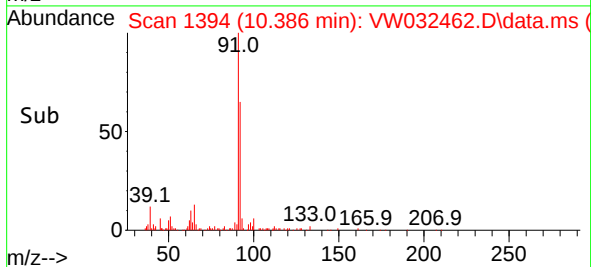
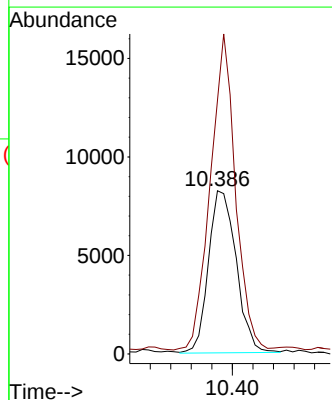
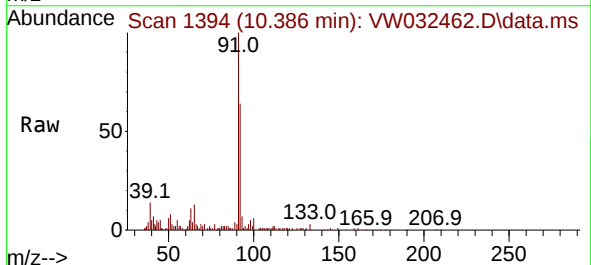
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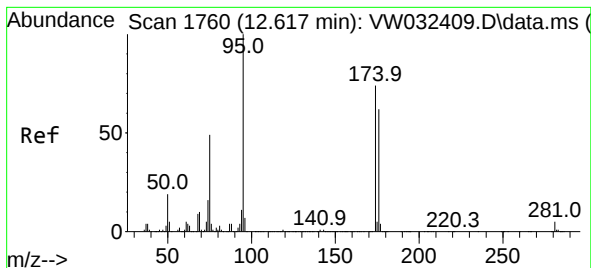
Tgt Ion: 98 Resp: 569918
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9



#52
Toluene
Concen: 1.699 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 92 Resp: 15405
Ion Ratio Lower Upper
92 100
91 176.2 136.6 205.0

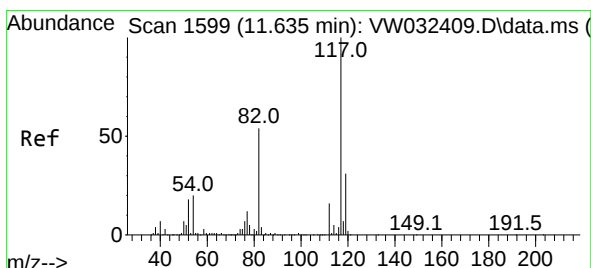
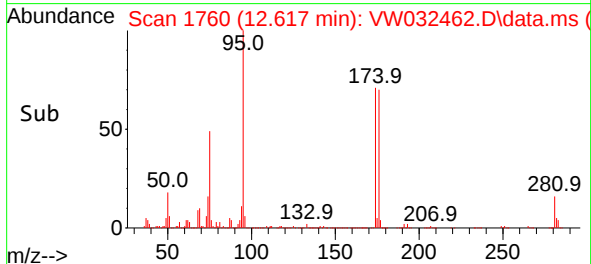
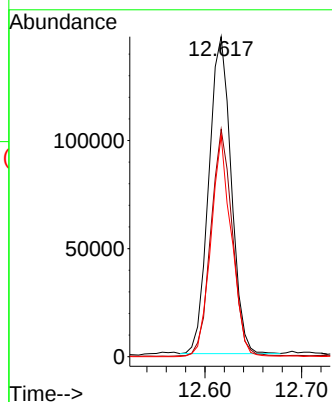
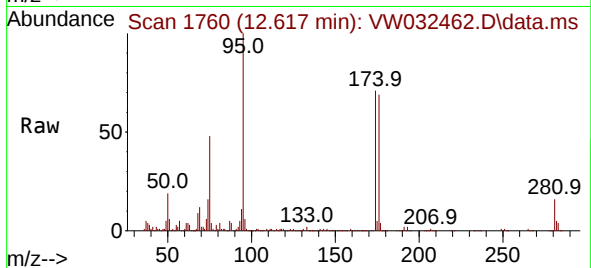




#62
4-Bromofluorobenzene
Concen: 52.756 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

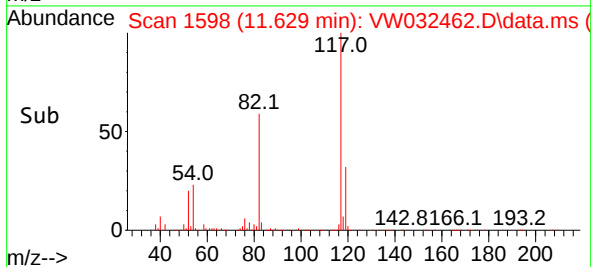
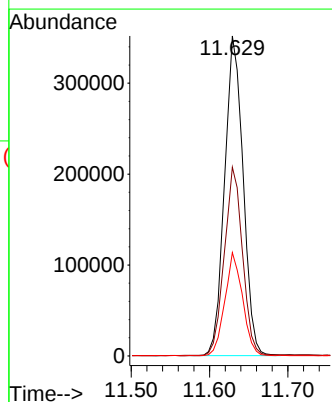
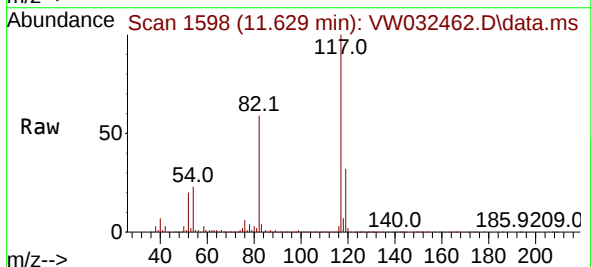
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

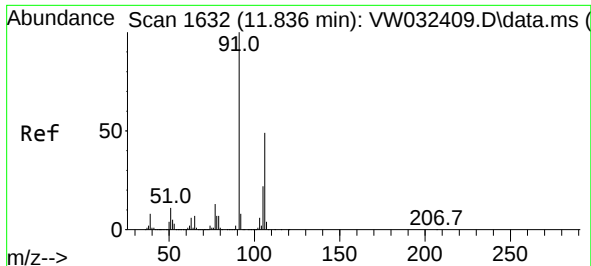
Tgt Ion:	95	Resp:	236503
Ion	Ratio	Lower	Upper
95	100		
174	68.6	0.0	135.4
176	64.0	0.0	131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion:	117	Resp:	579293
Ion	Ratio	Lower	Upper
117	100		
82	58.9	43.0	64.4
119	32.3	25.0	37.6

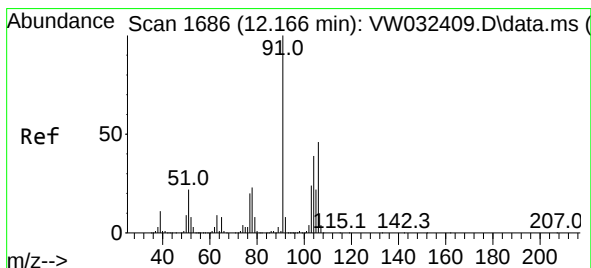
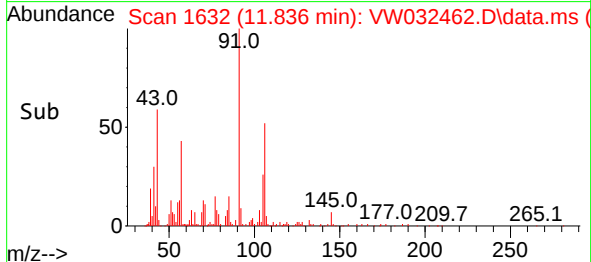
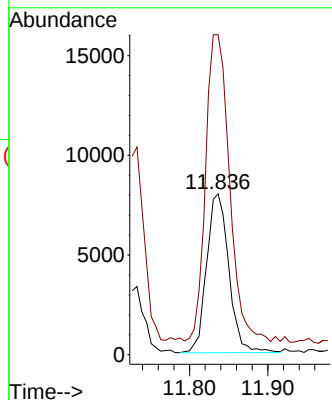
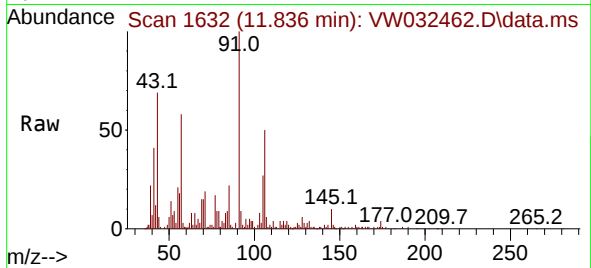




#68
m/p-Xylenes
Concen: 1.935 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

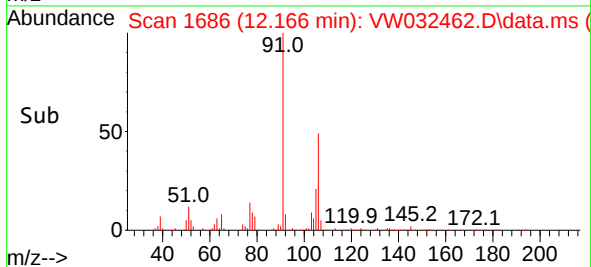
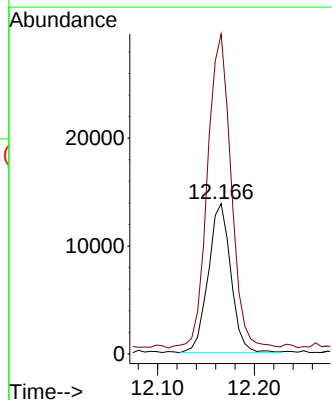
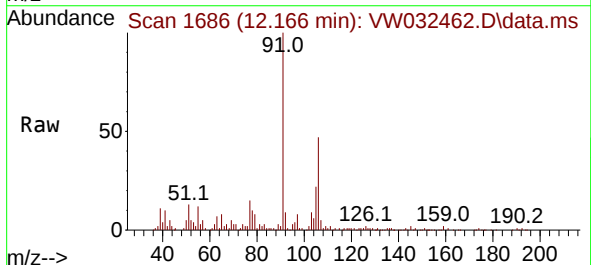
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

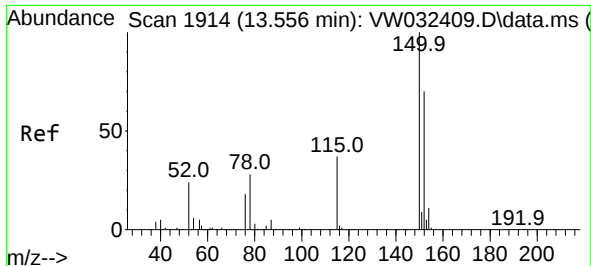
Tgt Ion:106 Resp: 15693
Ion Ratio Lower Upper
106 100
91 209.2 165.5 248.3



#69
o-Xylene
Concen: 2.885 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion:106 Resp: 22409
Ion Ratio Lower Upper
106 100
91 220.1 109.3 327.8

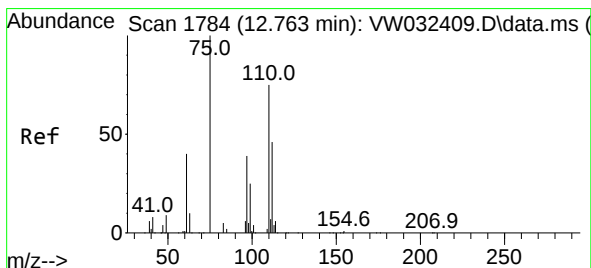
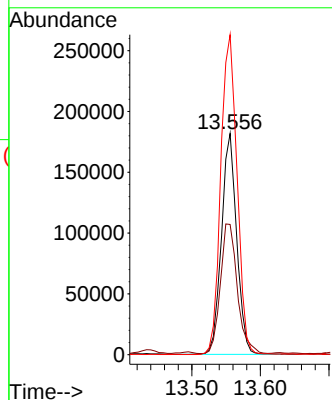
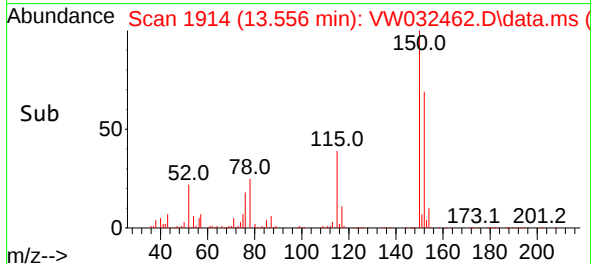
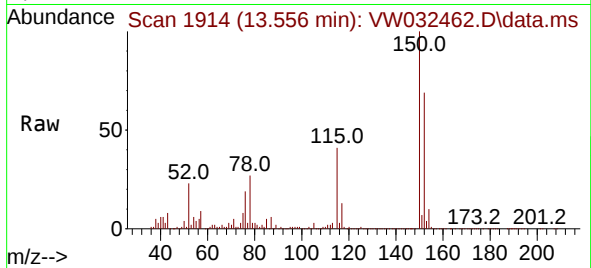




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

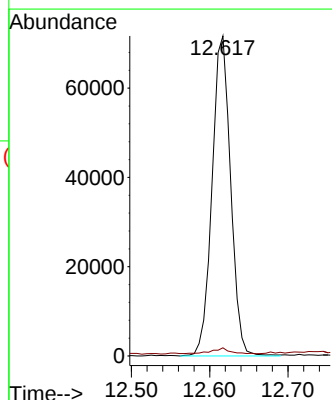
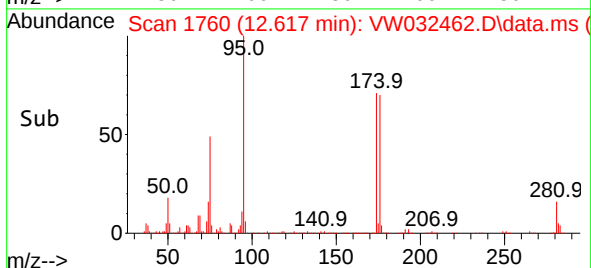
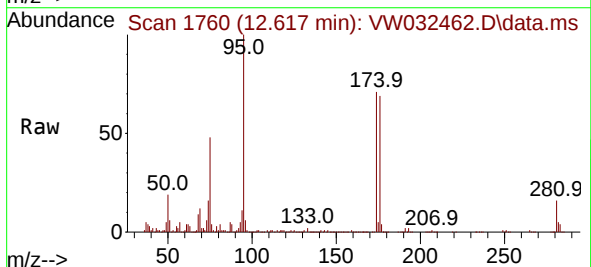
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

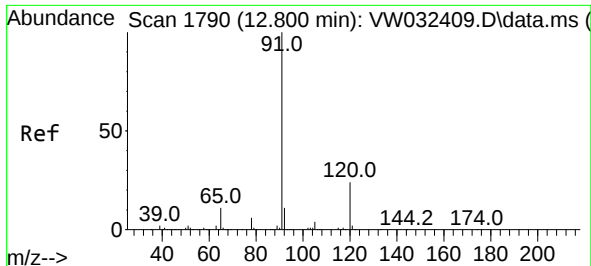
Tgt Ion:152 Resp: 279437
Ion Ratio Lower Upper
152 100
115 65.2 32.8 98.3
150 154.5 0.0 356.6



#76
1,2,3-Trichloropropane
Concen: 30.821 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 75 Resp: 118091
Ion Ratio Lower Upper
75 100
77 1.7 151.6 454.8#

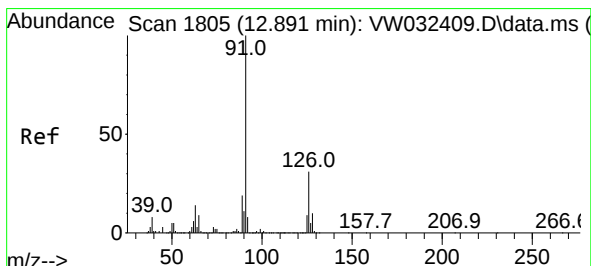
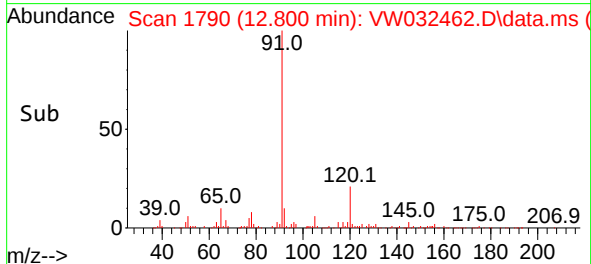
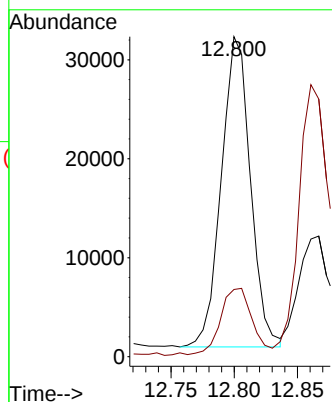
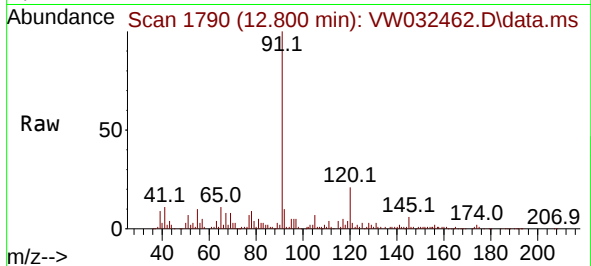




#78
n-propylbenzene
Concen: 2.007 ug/l
RT: 12.800 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

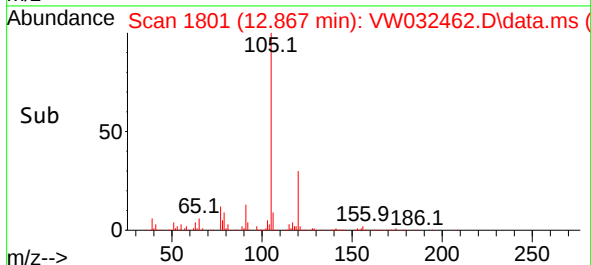
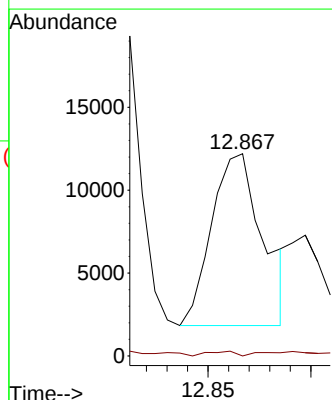
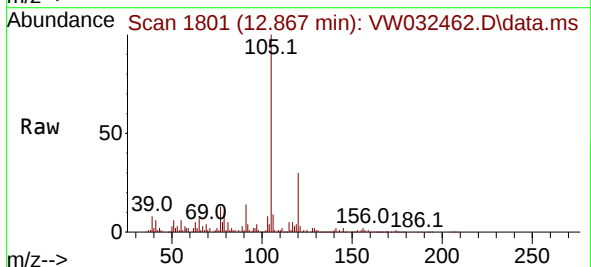
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

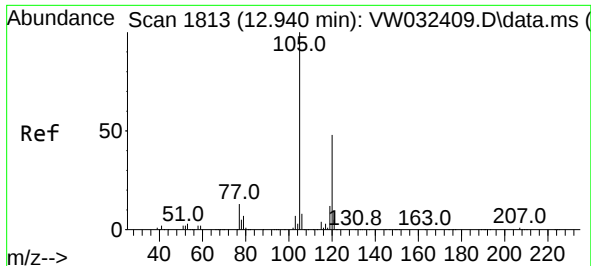
Tgt Ion: 91 Resp: 50166
Ion Ratio Lower Upper
91 100
120 23.8 11.3 33.9



#79
2-Chlorotoluene
Concen: 1.176 ug/l
RT: 12.867 min Scan# 1801
Delta R.T. -0.024 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 91 Resp: 17936
Ion Ratio Lower Upper
91 100
126 1.4 16.1 48.2#

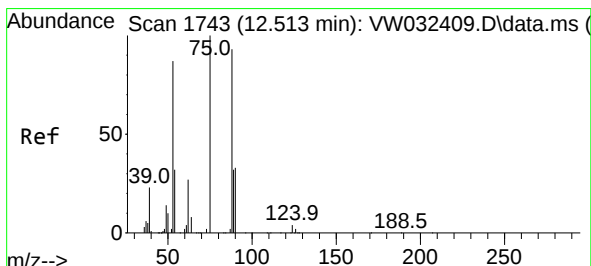
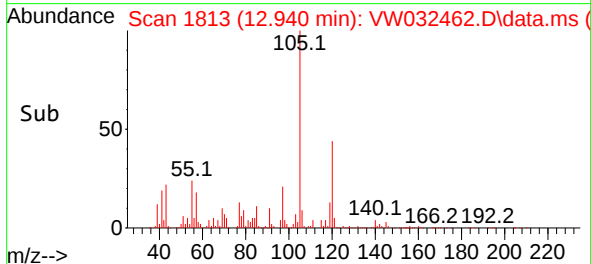
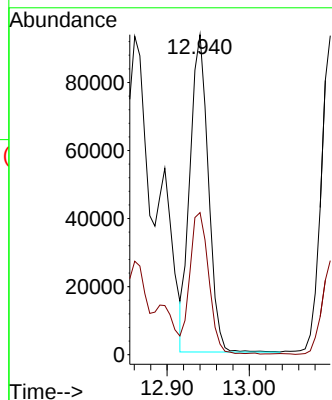
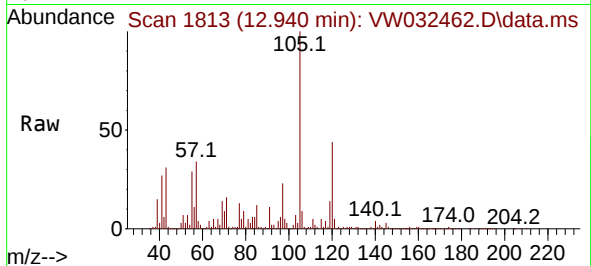




#80
1,3,5-Trimethylbenzene
Concen: 8.518 ug/l
RT: 12.940 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

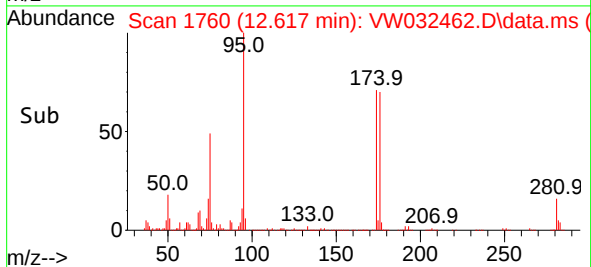
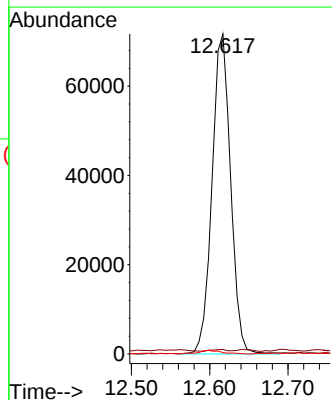
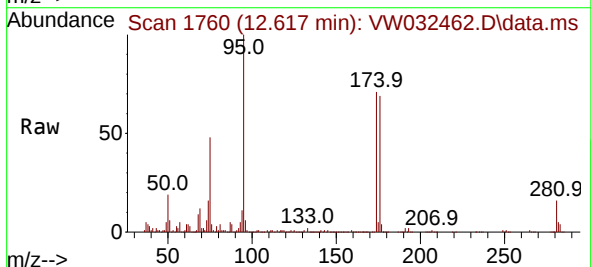
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

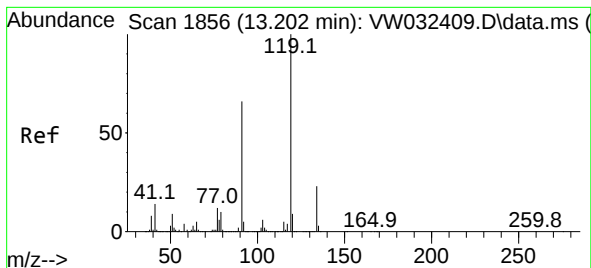
Tgt Ion:105 Resp: 144222
Ion Ratio Lower Upper
105 100
120 45.7 24.2 72.6



#81
trans-1,4-Dichloro-2-butene
Concen: 70.593 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 75 Resp: 118091
Ion Ratio Lower Upper
75 100
53 0.5 77.8 116.8#
89 1.4 35.6 53.4#





#83

tert-Butylbenzene

Concen: 2.750 ug/l

RT: 13.245 min Scan# 1863

Delta R.T. 0.043 min

Lab File: VW032462.D

Acq: 17 Nov 2025 16:45

Instrument :

MSVOA_W

ClientSampleId :

OR-02-111425

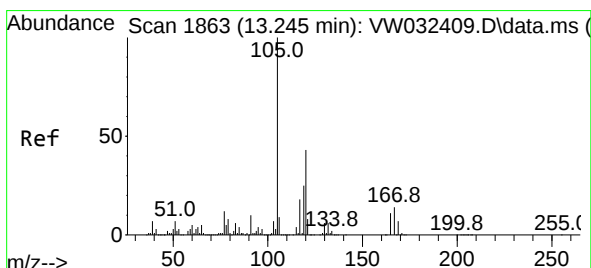
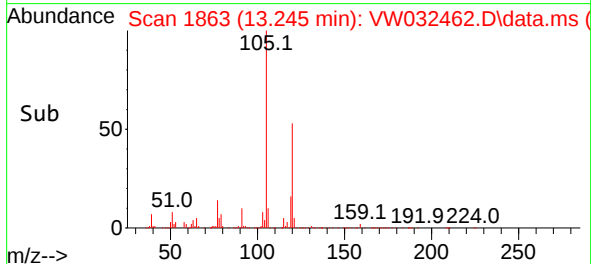
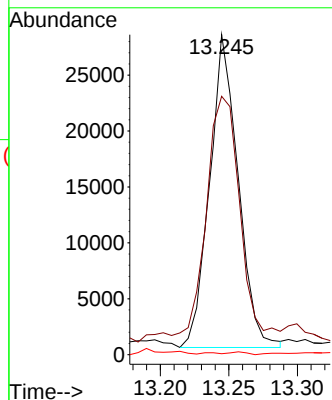
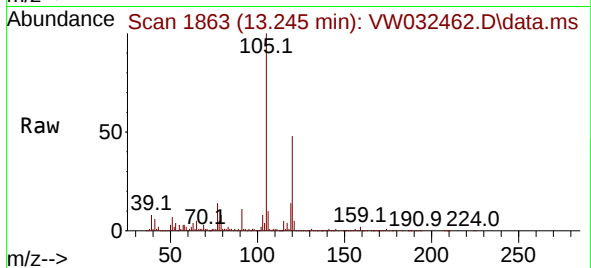
Tgt Ion:119 Resp: 40508

Ion Ratio Lower Upper

119 100

91 94.7 33.3 99.9

134 0.0 12.2 36.4#



#84

1,2,4-Trimethylbenzene

Concen: 19.311 ug/l

RT: 13.245 min Scan# 1863

Delta R.T. -0.000 min

Lab File: VW032462.D

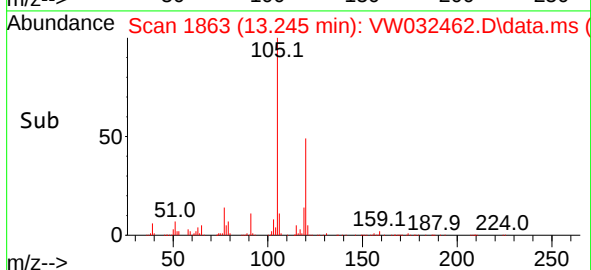
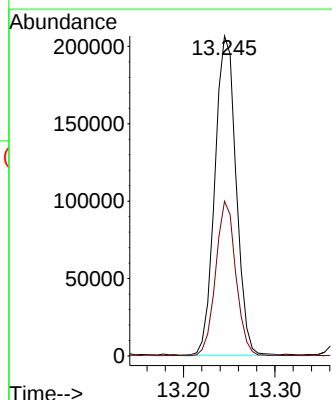
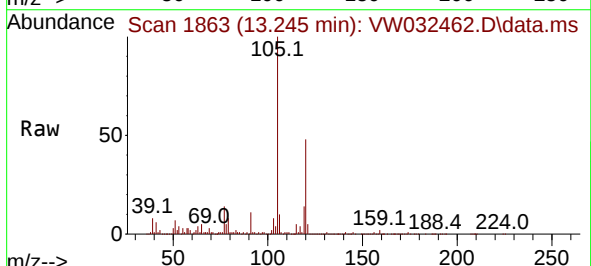
Acq: 17 Nov 2025 16:45

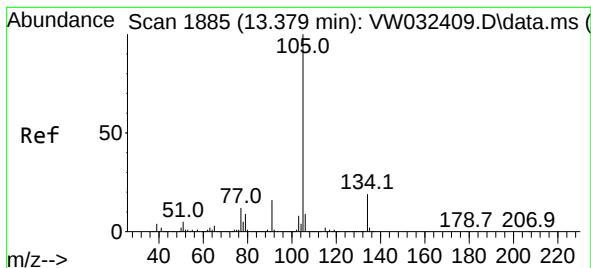
Tgt Ion:105 Resp: 332563

Ion Ratio Lower Upper

105 100

120 45.9 22.1 66.5

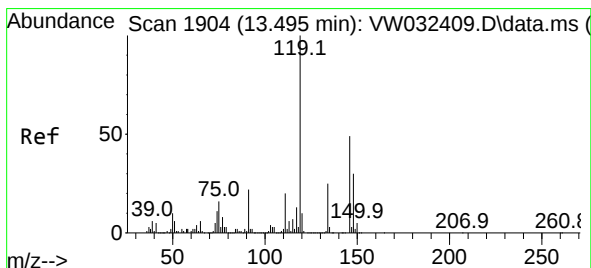
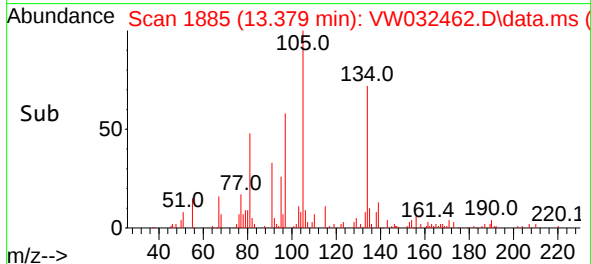
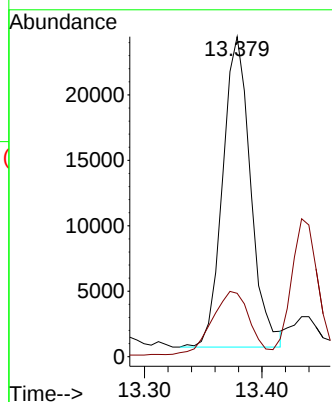
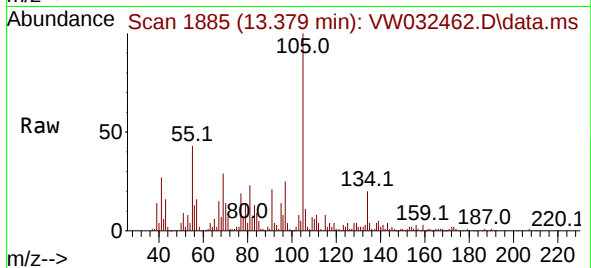




#85
 sec-Butylbenzene
 Concen: 1.785 ug/l
 RT: 13.379 min Scan# 1885
 Delta R.T. -0.000 min
 Lab File: VW032462.D
 Acq: 17 Nov 2025 16:45

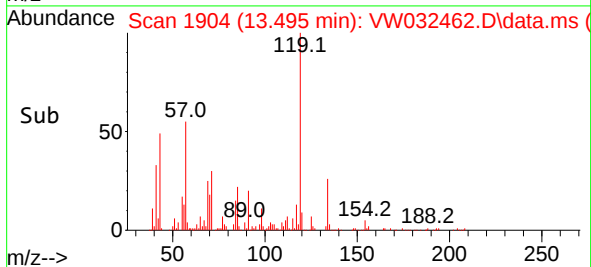
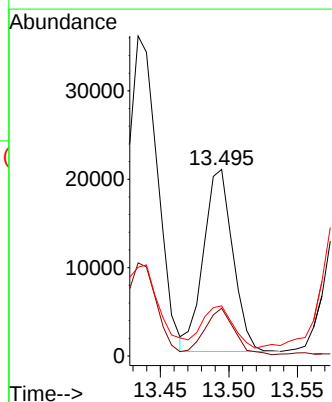
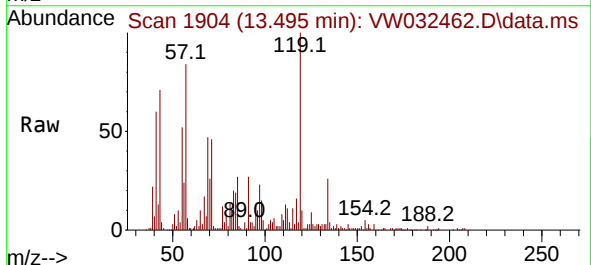
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-111425

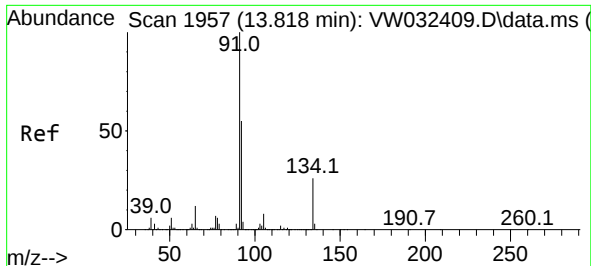
Tgt Ion:105 Resp: 39151
 Ion Ratio Lower Upper
 105 100
 134 30.4 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: 1.696 ug/l
 RT: 13.495 min Scan# 1904
 Delta R.T. -0.000 min
 Lab File: VW032462.D
 Acq: 17 Nov 2025 16:45

Tgt Ion:119 Resp: 30708
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.7 38.1
 91 23.9 11.9 35.5

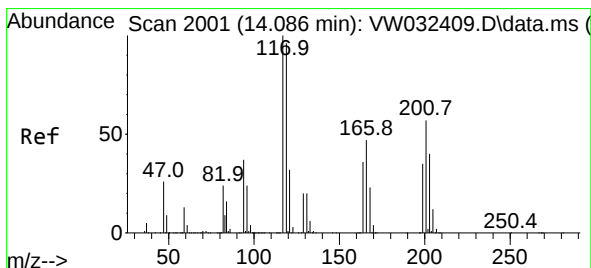
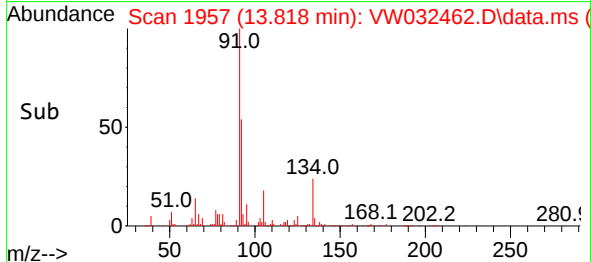
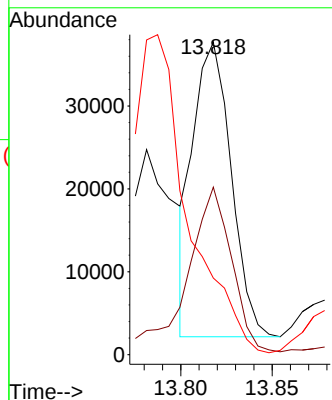
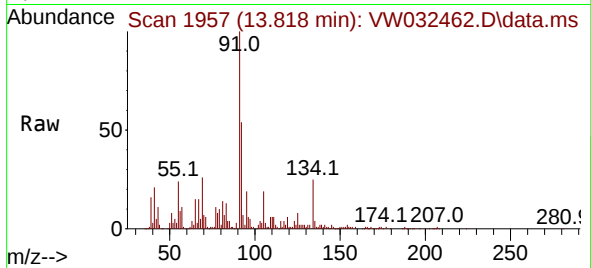




#89
n-Butylbenzene
Concen: 2.896 ug/l
RT: 13.818 min Scan# 1957
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

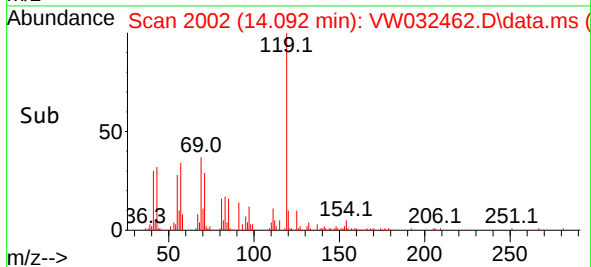
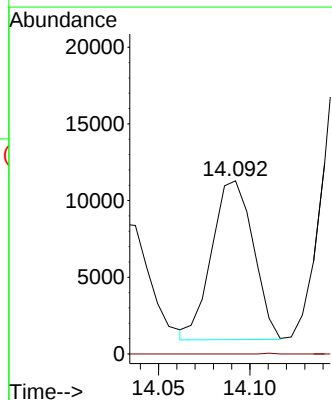
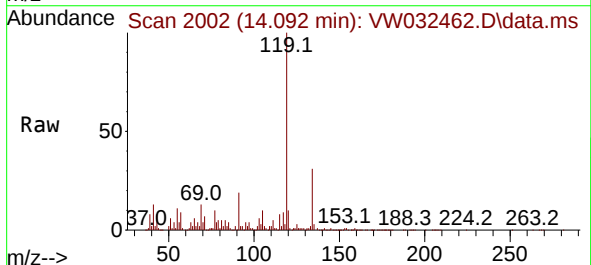
Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

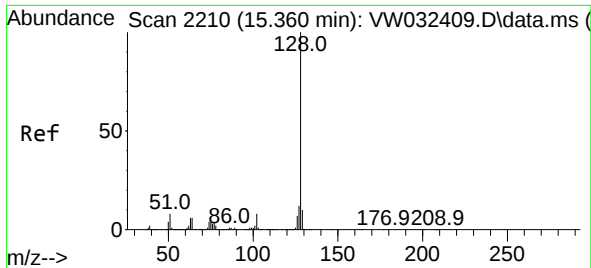
Tgt Ion: 91 Resp: 51245
Ion Ratio Lower Upper
91 100
92 64.4 27.4 82.2
134 0.0 12.4 37.4#



#90
Hexachloroethane
Concen: 5.026 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Tgt Ion: 117 Resp: 16411
Ion Ratio Lower Upper
117 100
201 0.1 32.0 96.0#





#95
Naphthalene
Concen: 25.365 ug/l
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032462.D
Acq: 17 Nov 2025 16:45

Instrument :
MSVOA_W
ClientSampleId :
OR-02-111425

Tgt Ion:128 Resp: 340420
Ion Ratio Lower Upper
128 100
127 14.0 10.2 15.4
129 11.2 8.6 12.8

