

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086126.D
 Acq On : 26 Mar 2025 15:11
 Operator : JC\MD
 Sample : Q1632-03RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PIER-1-2RE

Quant Time: Mar 27 01:38:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

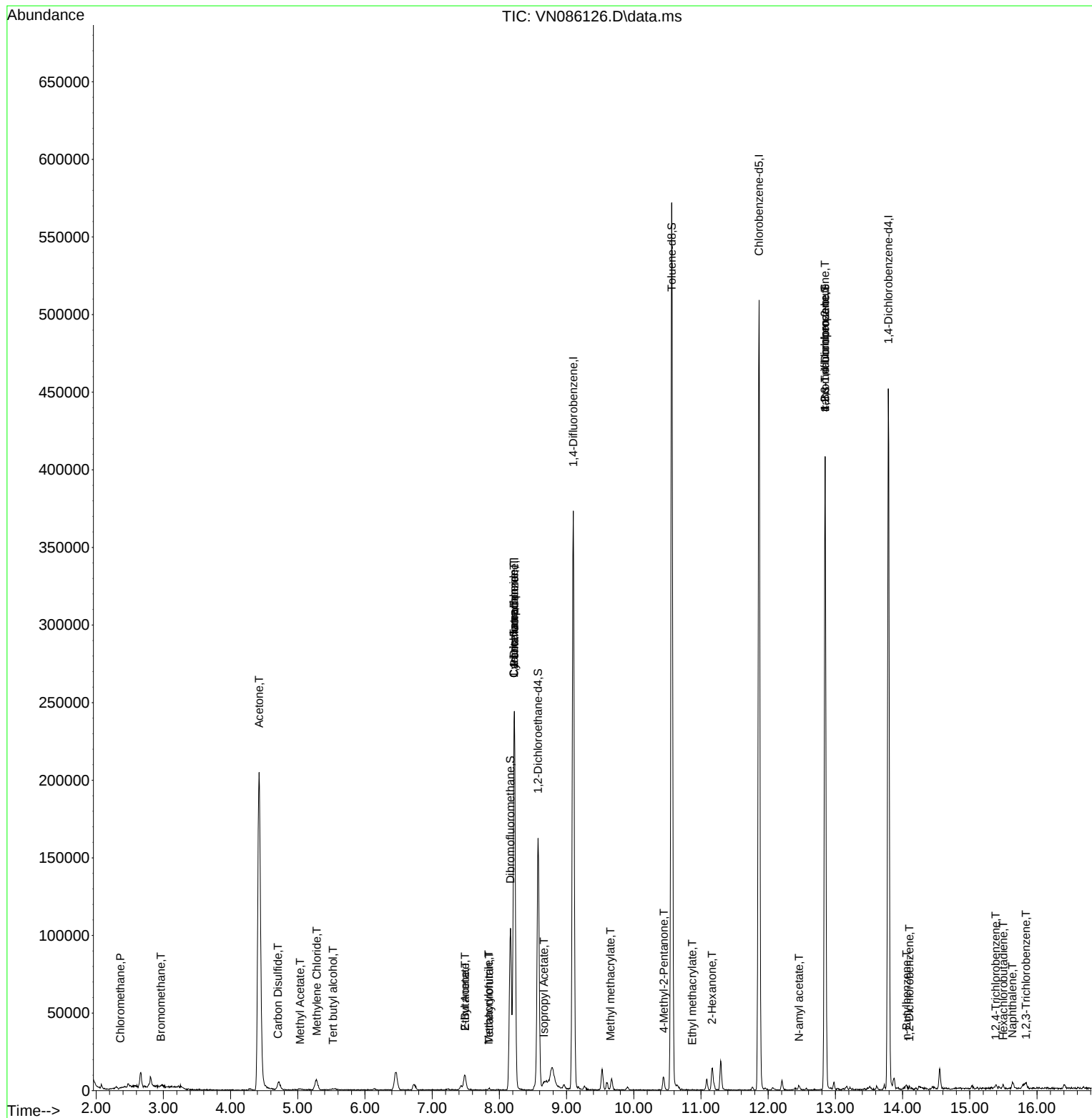
Internal Standards						
1) Pentafluorobenzene	8.224	168	178315	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	328992	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301635	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125409	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135204	55.372	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.740%			
35) Dibromofluoromethane	8.165	113	75274	32.780	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 65.560%#			
50) Toluene-d8	10.565	98	403370	48.400	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.800%			
62) 4-Bromofluorobenzene	12.847	95	142831	48.056	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.120%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	656	0.317	ug/l #	42
5) Bromomethane	2.965	94	835	0.579	ug/l #	62
11) Tert butyl alcohol	5.524	59	1385	4.006	ug/l #	73
16) Acetone	4.424	43	377367	505.871	ug/l	100
17) Carbon Disulfide	4.706	76	1859	0.309	ug/l #	74
18) Methyl Acetate	5.036	43	1835	0.994	ug/l #	59
20) Methylene Chloride	5.283	84	5496	2.518	ug/l	92
25) 2-Butanone	7.488	43	16366	15.204	ug/l #	87
29) Tetrahydrofuran	7.847	42	672	1.011	ug/l #	47
31) Cyclohexane	8.218	56	3451	1.134	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13949	4.613	ug/l #	49
37) Ethyl Acetate	7.488	43	16366	6.416	ug/l #	64
38) Carbon Tetrachloride	8.218	117	18725	4.710	ug/l #	17
41) Methacrylonitrile	7.841	41	301	0.247	ug/l #	32
43) Isopropyl Acetate	8.665	43	2897	0.524	ug/l #	50
48) Methyl methacrylate	9.653	41	1064	0.583	ug/l #	23
51) 4-Methyl-2-Pentanone	10.447	43	6273	2.573	ug/l #	86
56) Ethyl methacrylate	10.871	69	56	0.207	ug/l #	33
59) 2-Hexanone	11.165	43	12564	7.075	ug/l #	18
74) N-amyl acetate	12.459	43	2497	0.871	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	70445	25.090	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	70445	66.334	ug/l #	16
89) n-Butylbenzene	14.059	91	2095	0.377	ug/l	86
91) 1,2-Dichlorobenzene	14.100	146	856	0.200	ug/l	86
93) 1,2,4-Trichlorobenzene	15.388	180	835	0.388	ug/l #	65
94) Hexachlorobutadiene	15.500	225	735	0.589	ug/l	73
95) Naphthalene	15.635	128	4735	0.760	ug/l	97
96) 1,2,3-Trichlorobenzene	15.835	180	1327	0.650	ug/l	96

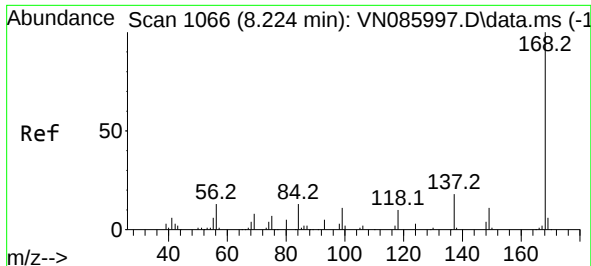
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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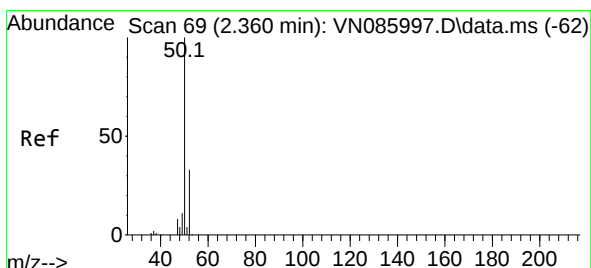
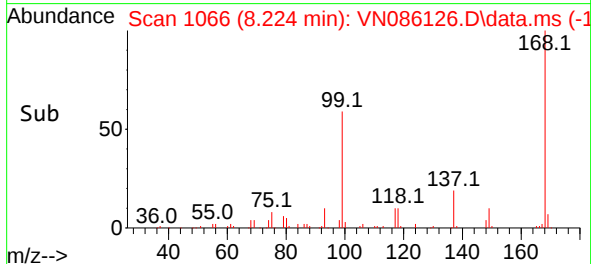
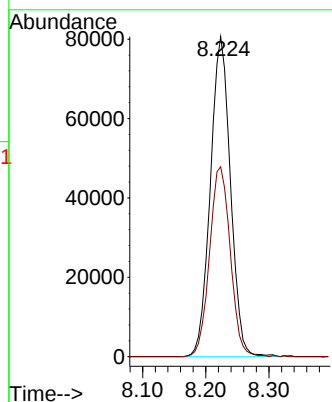
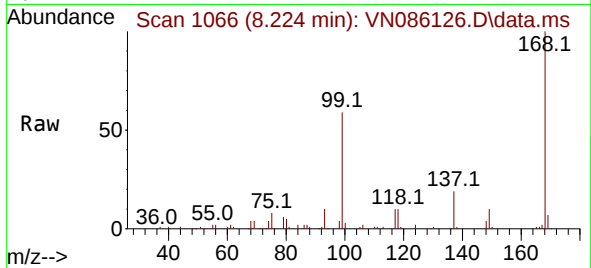




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

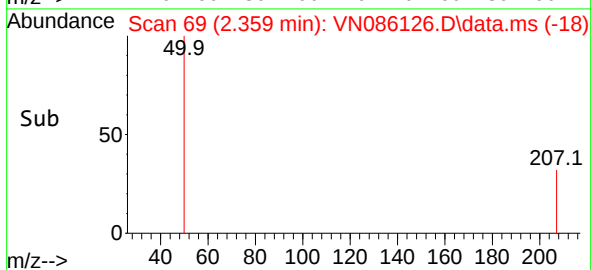
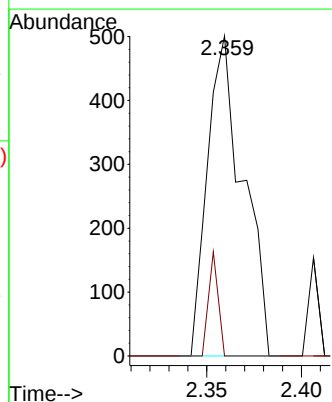
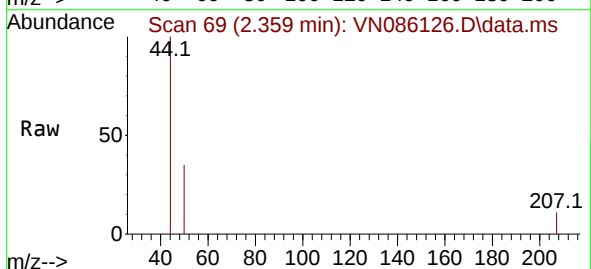
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

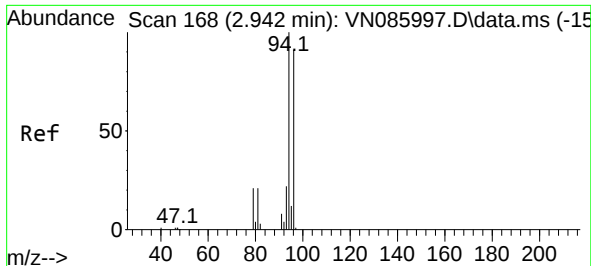
Tgt Ion:168 Resp: 178315
Ion Ratio Lower Upper
168 100
99 59.3 49.4 74.2



#3
Chloromethane
Concen: 0.317 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 50 Resp: 656
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

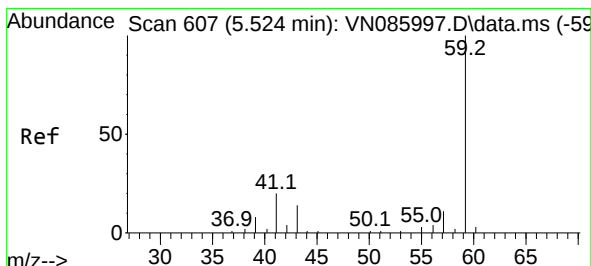
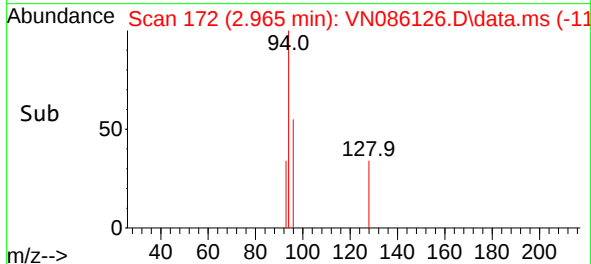
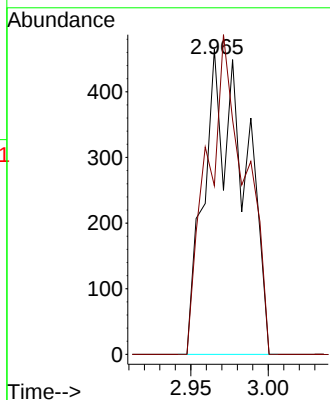
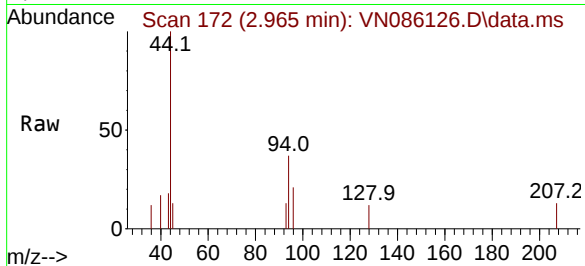




#5
Bromomethane
Concen: 0.579 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

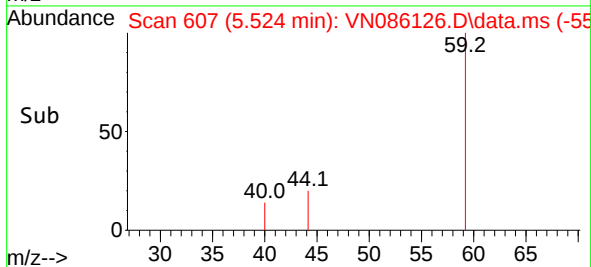
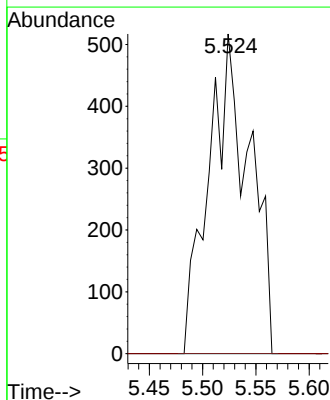
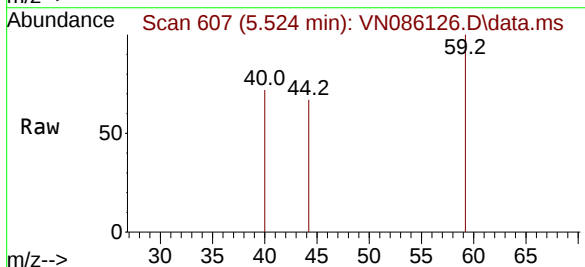
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

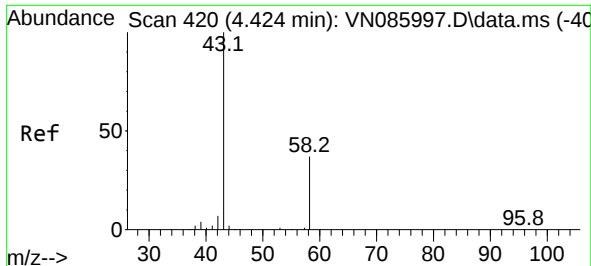
Tgt Ion: 94 Resp: 835
Ion Ratio Lower Upper
94 100
96 55.3 72.8 109.2#



#11
Tert butyl alcohol
Concen: 4.006 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 59 Resp: 1385
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

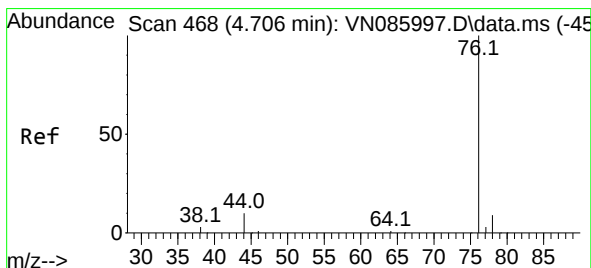
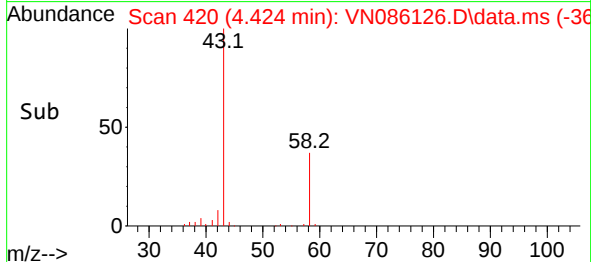
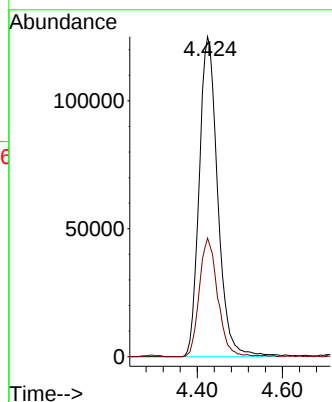
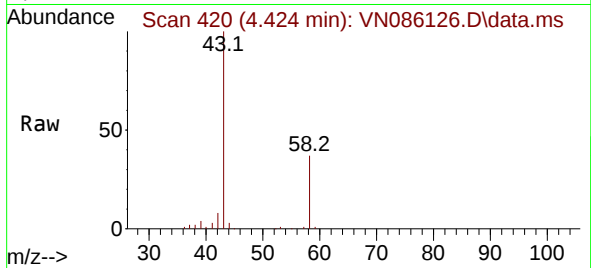




#16
Acetone
Concen: 505.871 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

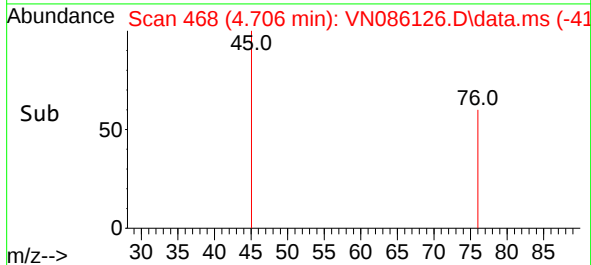
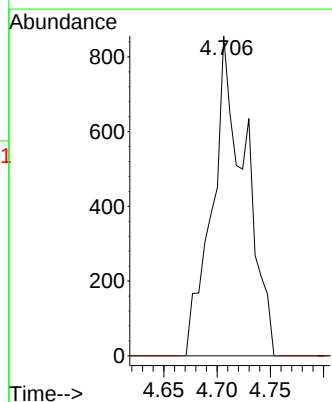
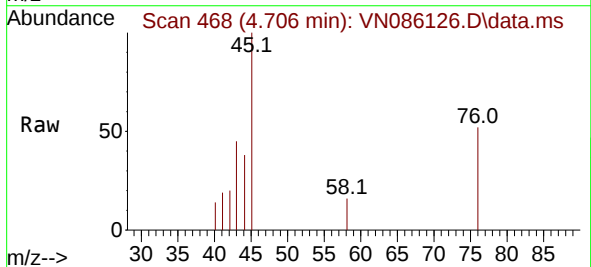
Instrument :
MSVOA_N
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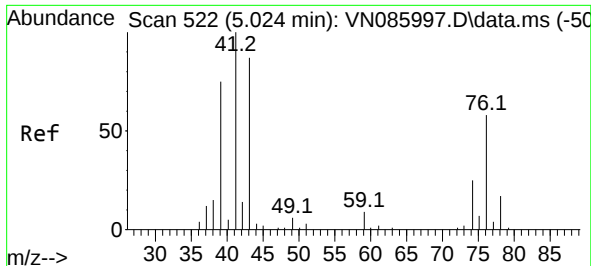
Tgt Ion: 43 Resp: 377367
Ion Ratio Lower Upper
43 100
58 37.1 29.4 44.2



#17
Carbon Disulfide
Concen: 0.309 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 76 Resp: 1859
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

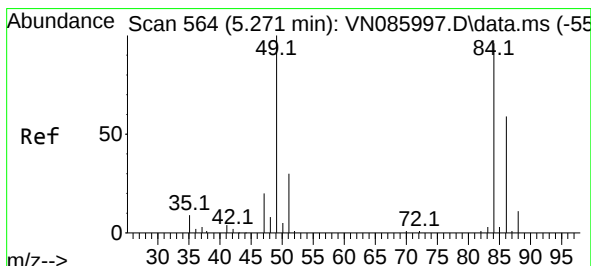
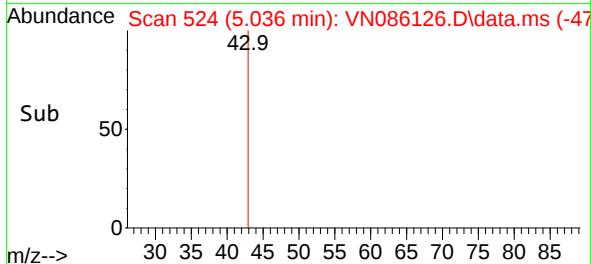
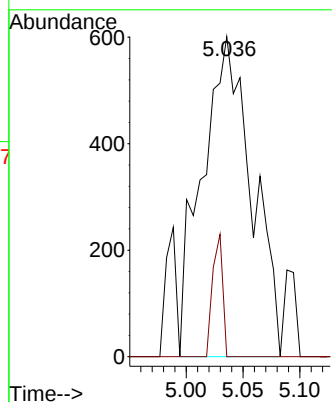
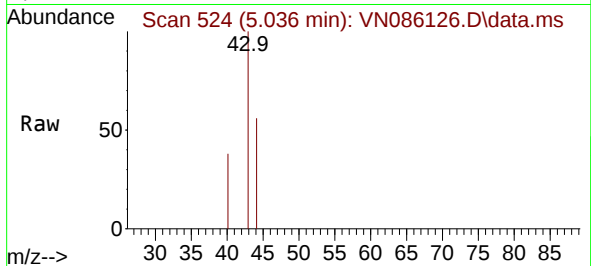




#18
Methyl Acetate
Concen: 0.994 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

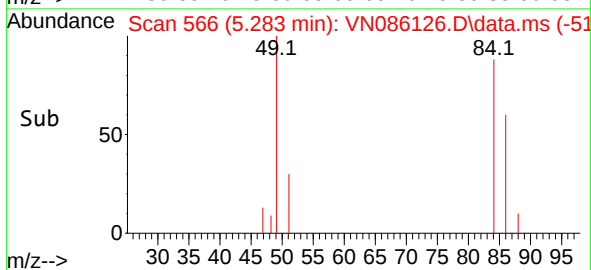
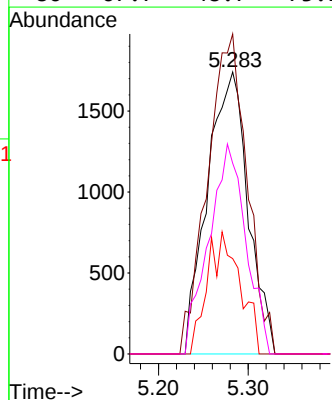
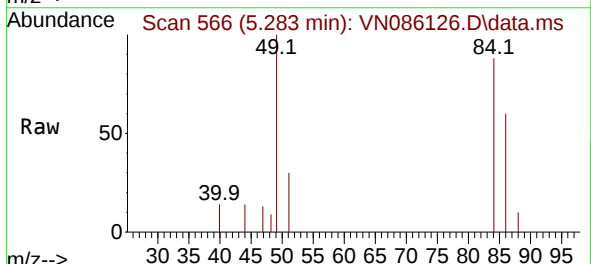
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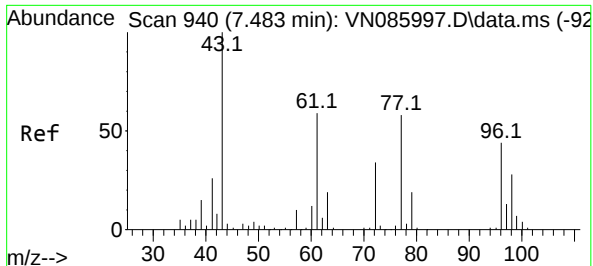
Tgt Ion: 43 Resp: 1835
Ion Ratio Lower Upper
43 100
74 7.6 23.9 35.9#



#20
Methylene Chloride
Concen: 2.518 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 84 Resp: 5496
Ion Ratio Lower Upper
84 100
49 113.5 83.3 124.9
51 33.8 24.8 37.2
86 67.7 48.7 73.1

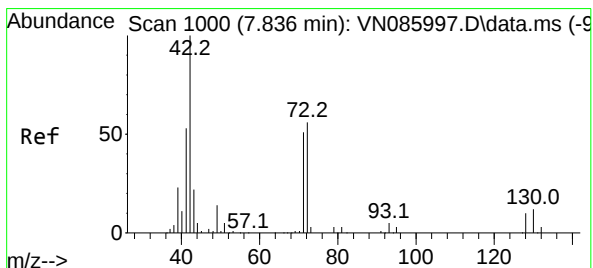
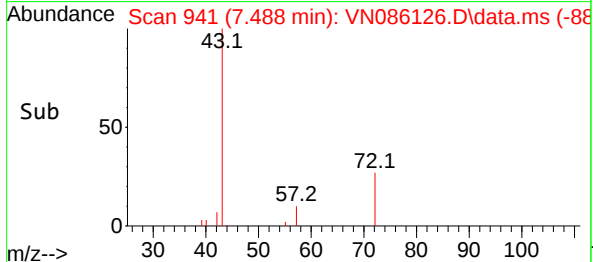
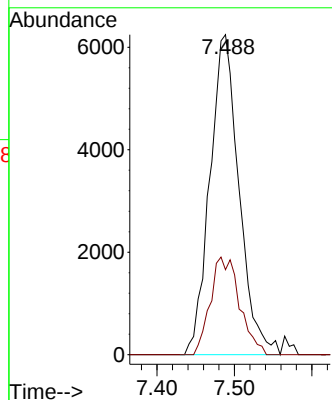
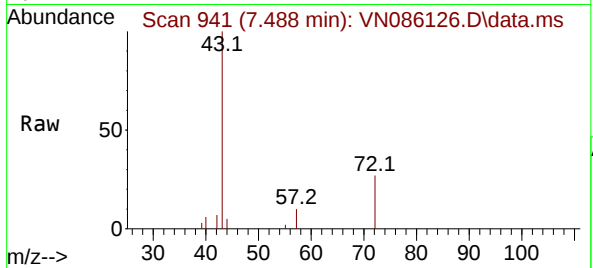




#25
2-Butanone
Concen: 15.204 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

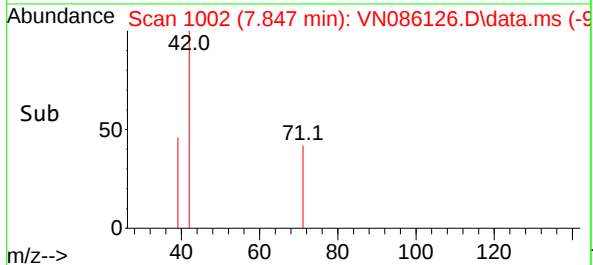
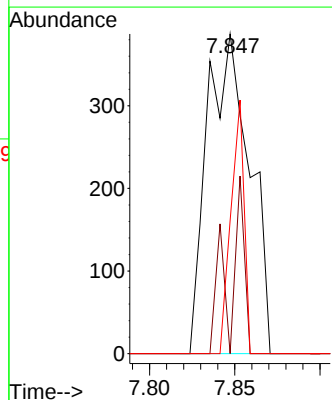
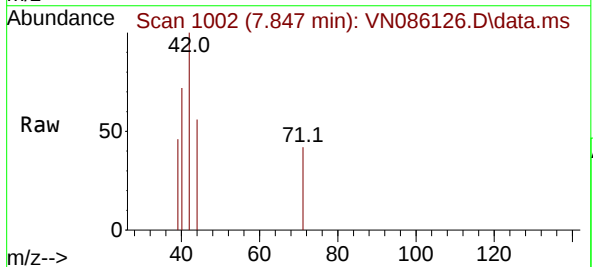
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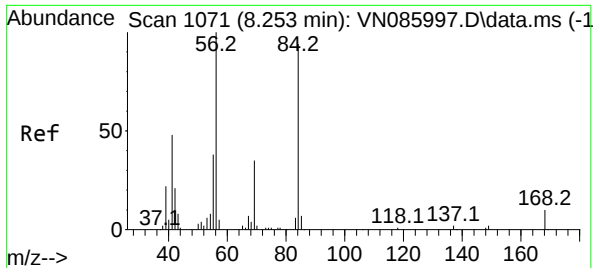
Tgt Ion: 43 Resp: 16366
Ion Ratio Lower Upper
43 100
72 26.6 27.4 41.0#



#29
Tetrahydrofuran
Concen: 1.011 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 42 Resp: 672
Ion Ratio Lower Upper
42 100
72 8.2 45.0 67.4#
71 24.6 41.9 62.9#

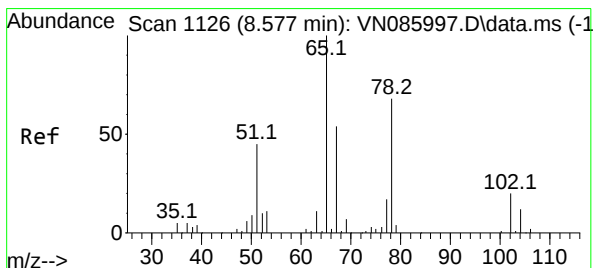
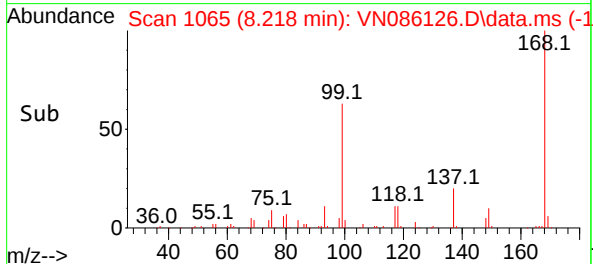
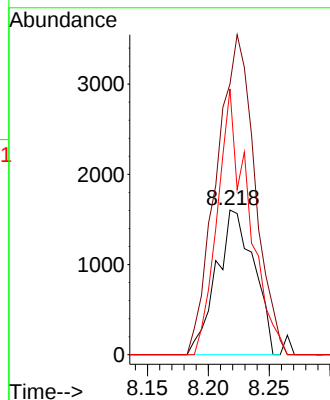
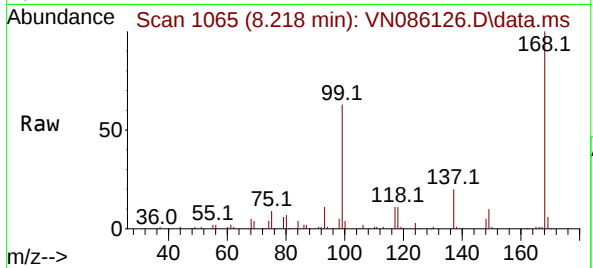




#31
Cyclohexane
Concen: 1.134 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.036 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

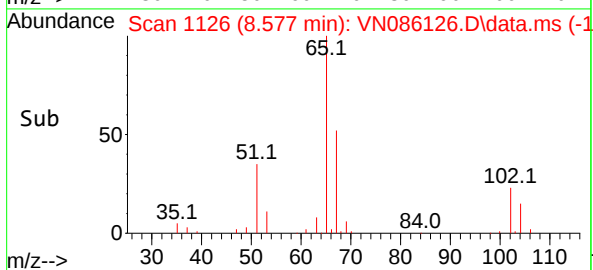
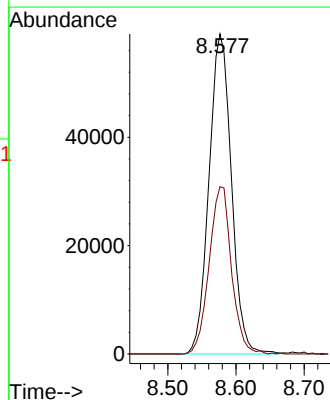
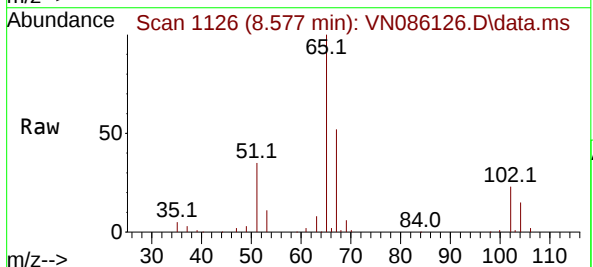
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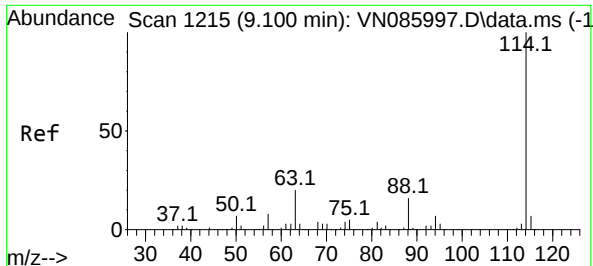
Tgt Ion: 56 Resp: 3451
Ion Ratio Lower Upper
56 100
69 187.0 28.0 42.0#
84 183.7 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 55.372 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 65 Resp: 135204
Ion Ratio Lower Upper
65 100
67 52.1 0.0 102.2

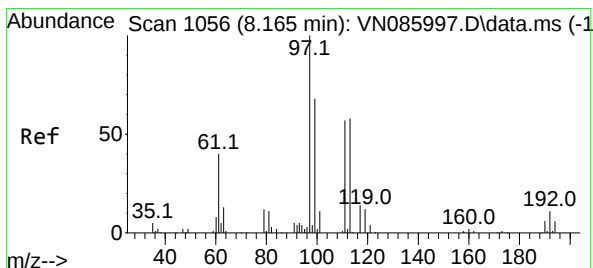
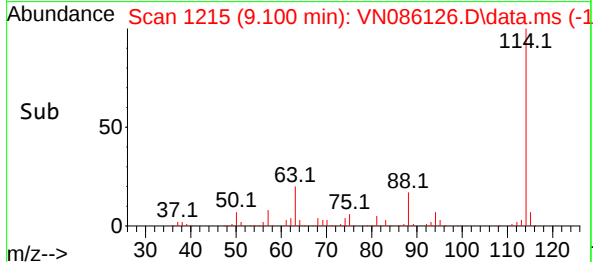
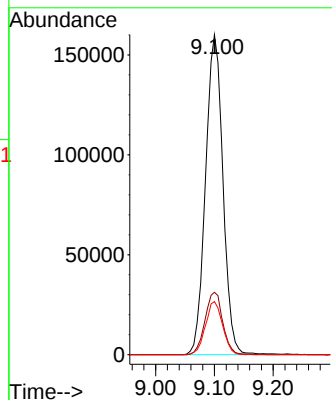
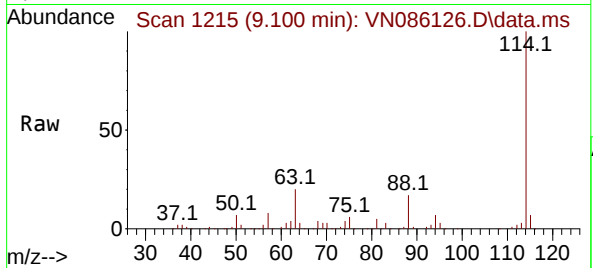




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

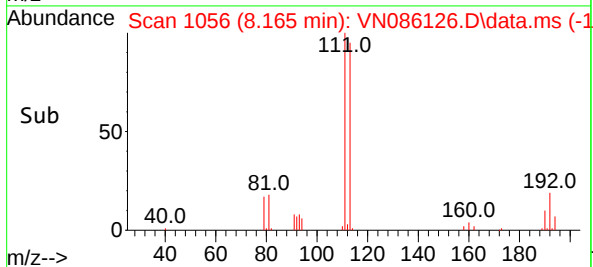
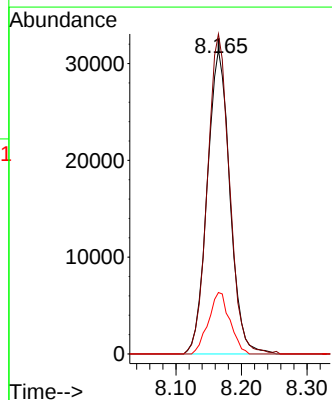
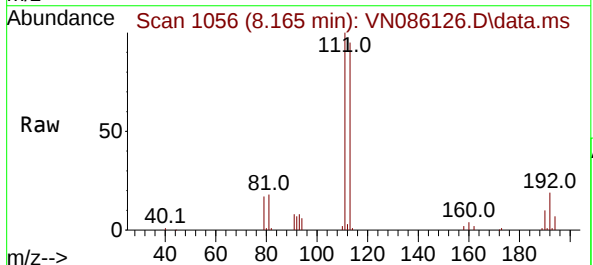
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

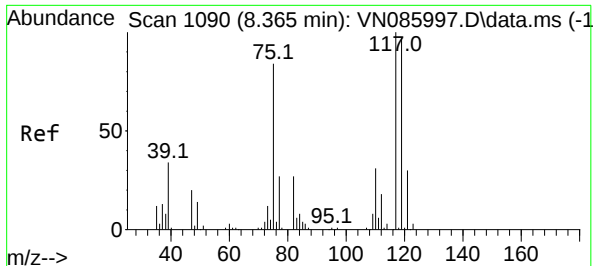
Tgt Ion:114 Resp: 328992
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.6
88 16.6 0.0 32.6



#35
Dibromofluoromethane
Concen: 32.780 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion:113 Resp: 75274
Ion Ratio Lower Upper
113 100
111 102.6 81.8 122.8
192 19.1 15.9 23.9

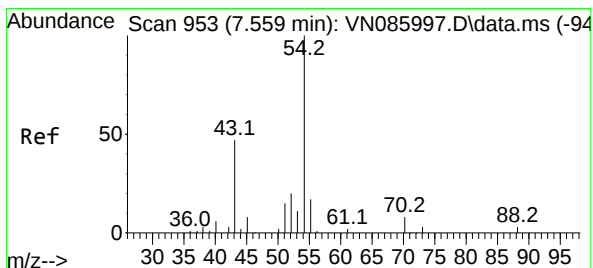
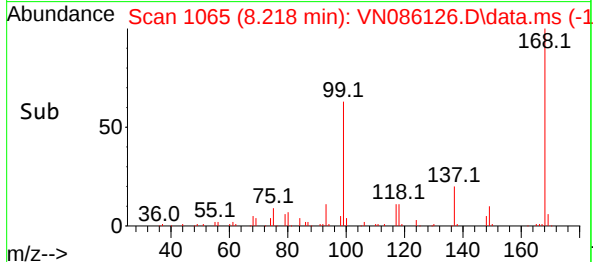
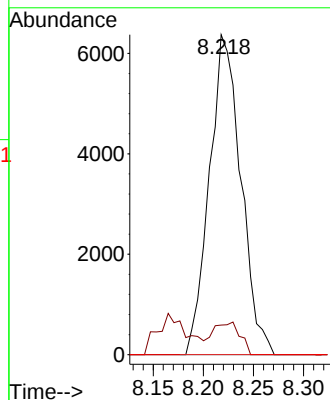
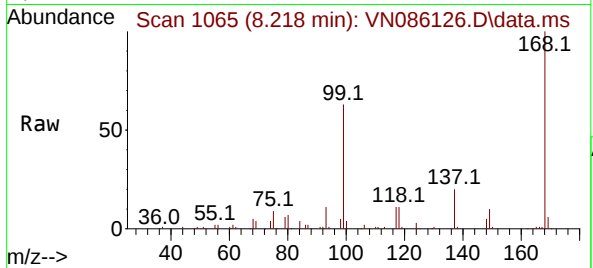




#36
1,1-Dichloropropene
Concen: 4.613 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

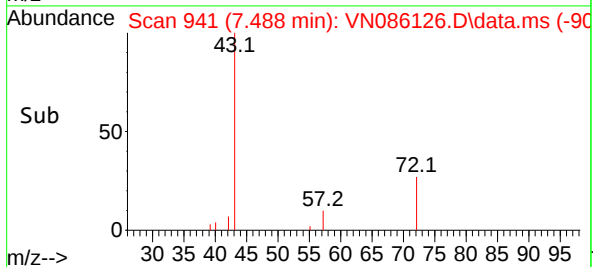
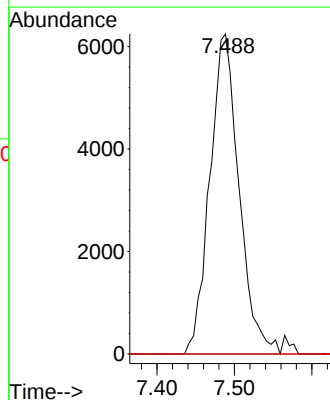
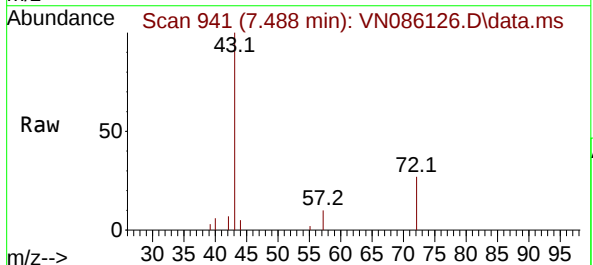
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

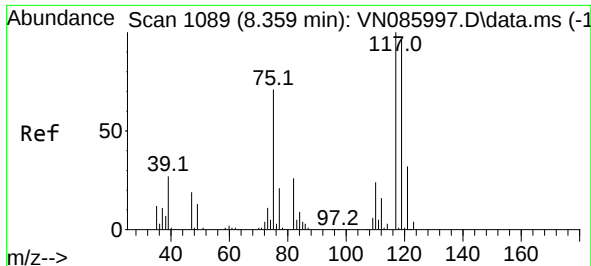
Tgt Ion: 75 Resp: 13949
Ion Ratio Lower Upper
75 100
110 8.8 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 6.416 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.071 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 43 Resp: 16366
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 0.0 11.0 16.6#

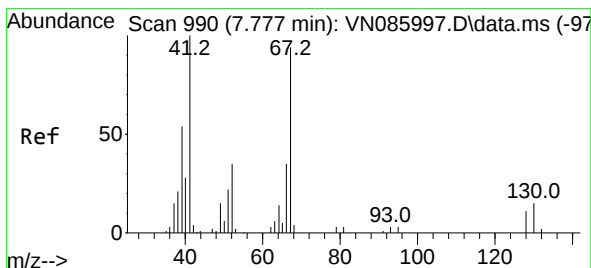
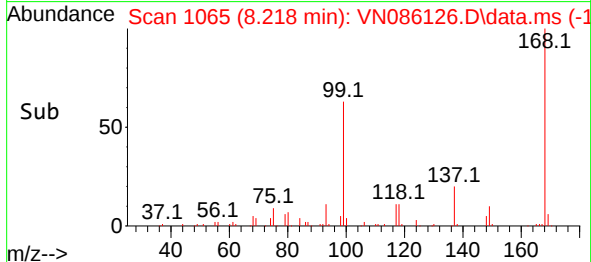
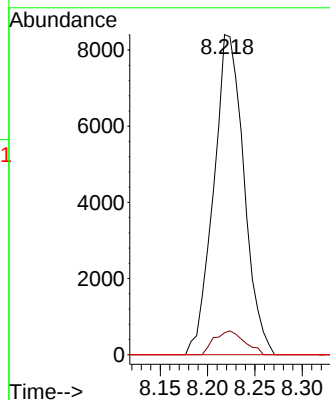
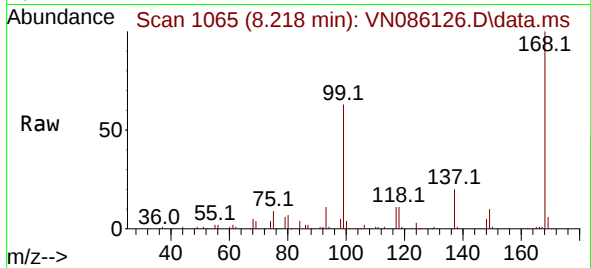




#38
Carbon Tetrachloride
Concen: 4.710 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

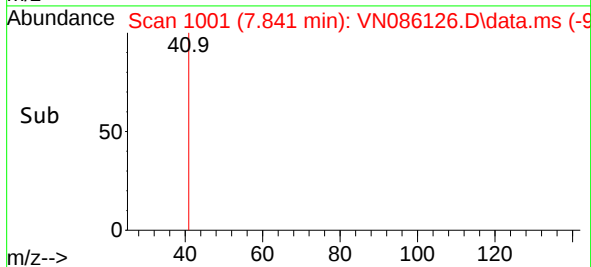
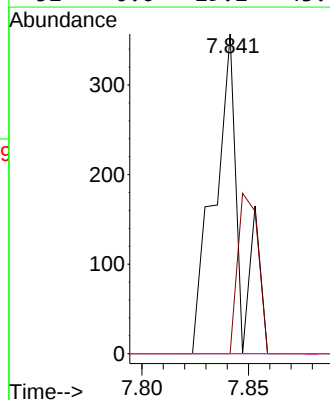
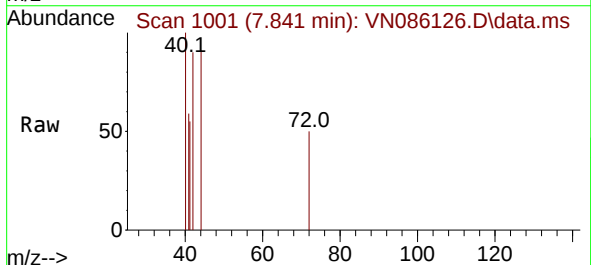
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

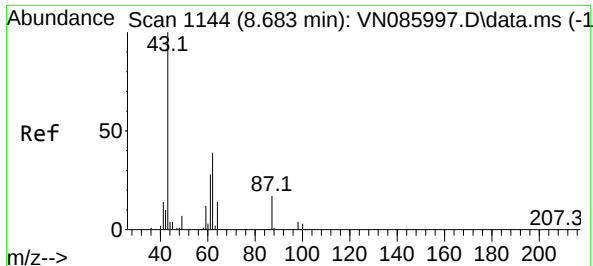
Tgt Ion:117 Resp: 18725
Ion Ratio Lower Upper
117 100
119 6.9 77.0 115.4#
121 0.0 25.6 38.4#



#41
Methacrylonitrile
Concen: 0.247 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

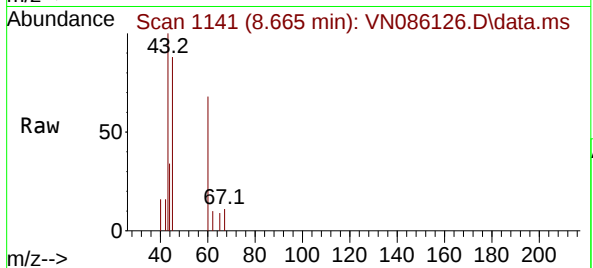
Tgt Ion: 41 Resp: 301
Ion Ratio Lower Upper
41 100
39 39.5 46.2 69.2#
67 0.0 75.9 113.9#
52 0.0 29.2 43.8#



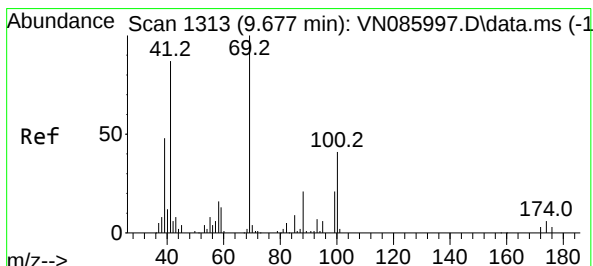
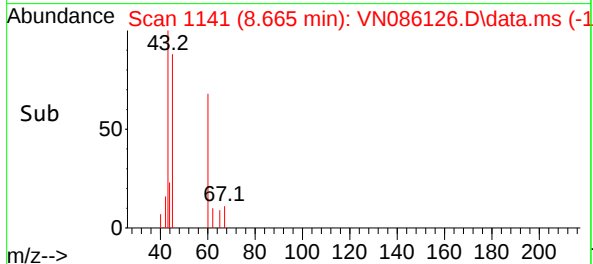
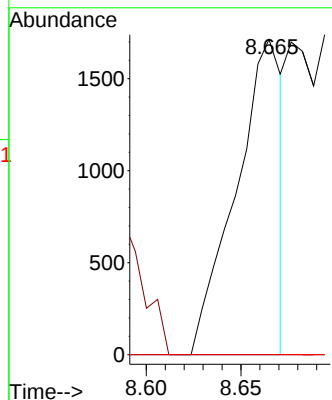


#43
Isopropyl Acetate
Concen: 0.524 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.018 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

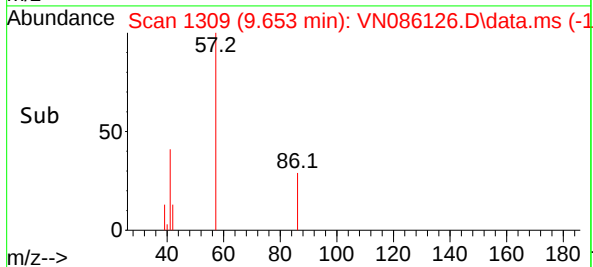
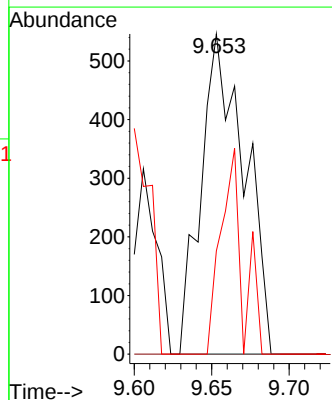
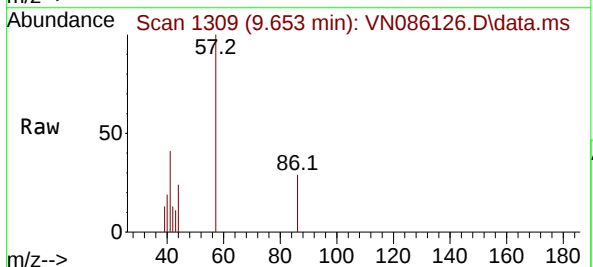


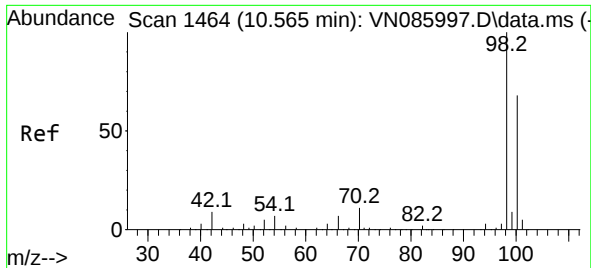
Tgt Ion: 43 Resp: 2897
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#



#48
Methyl methacrylate
Concen: 0.583 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.024 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 41 Resp: 1064
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 32.5 45.6 68.4#

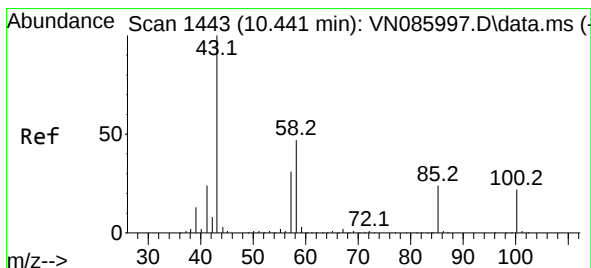
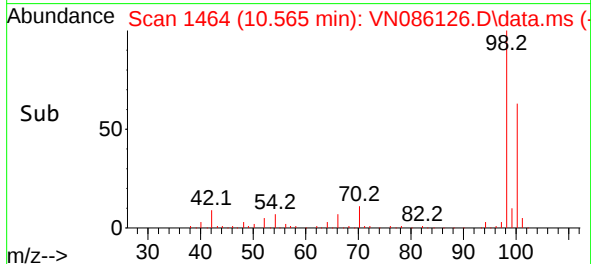
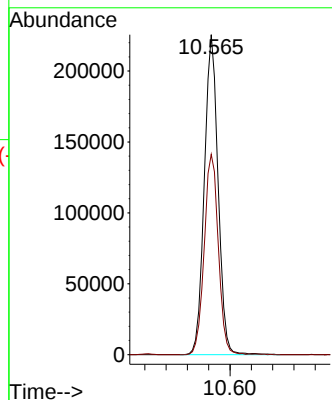
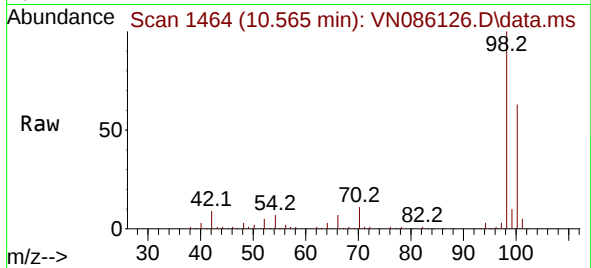




#50
Toluene-d8
Concen: 48.400 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

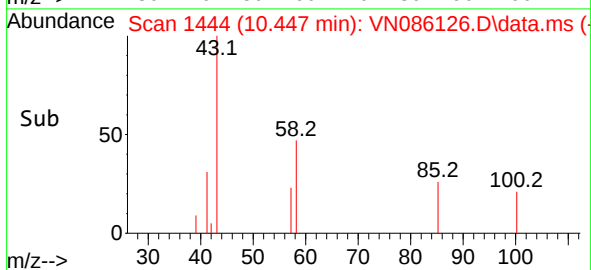
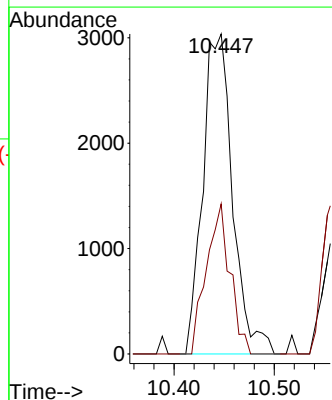
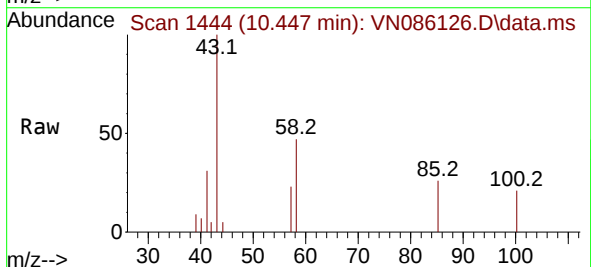
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

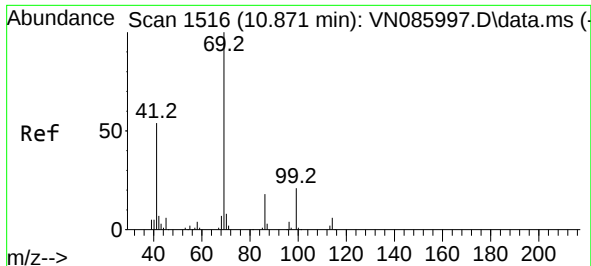
Tgt Ion: 98 Resp: 403370
Ion Ratio Lower Upper
98 100
100 64.2 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 2.573 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 43 Resp: 6273
Ion Ratio Lower Upper
43 100
58 37.3 37.4 56.0#

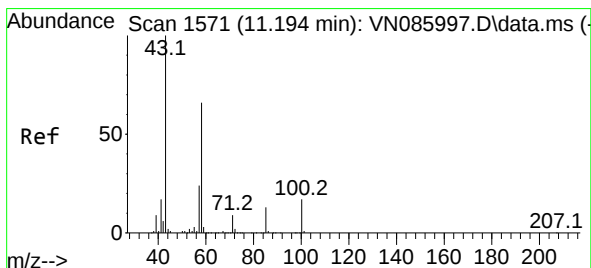
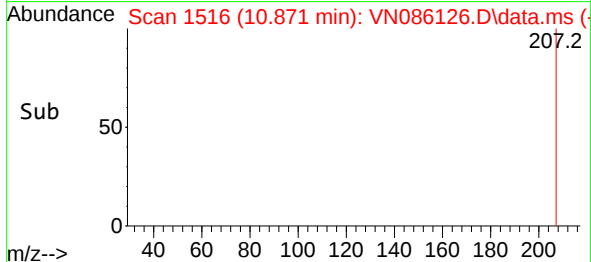
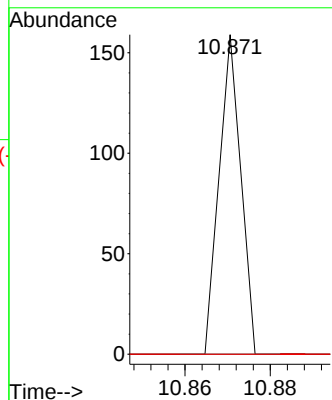
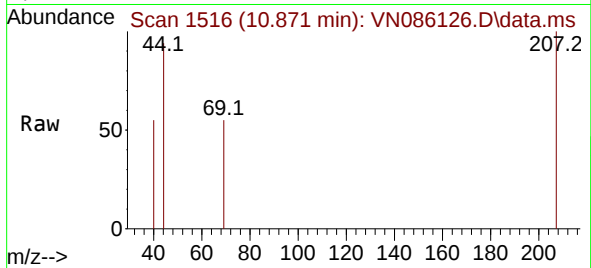




#56
Ethyl methacrylate
Concen: 0.207 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

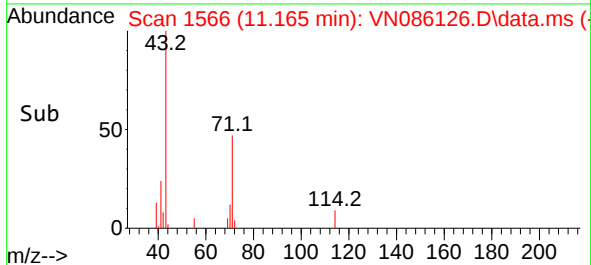
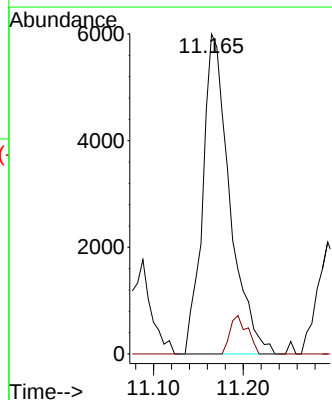
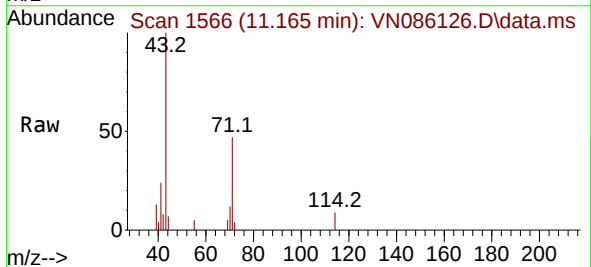
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

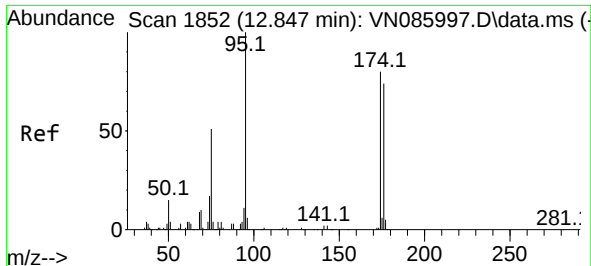
Tgt Ion: 69 Resp: 56
Ion Ratio Lower Upper
69 100
41 0.0 41.6 62.4#
39 0.0 21.8 32.8#



#59
2-Hexanone
Concen: 7.075 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.030 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 43 Resp: 12564
Ion Ratio Lower Upper
43 100
58 0.0 32.4 97.2#

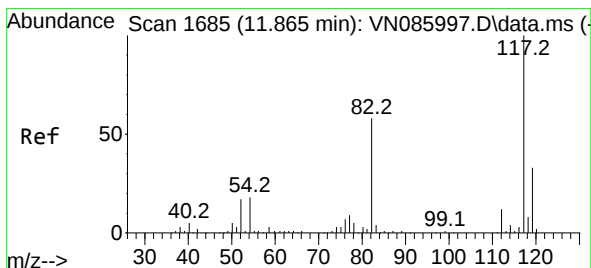
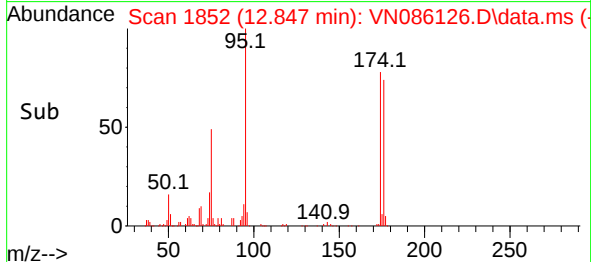
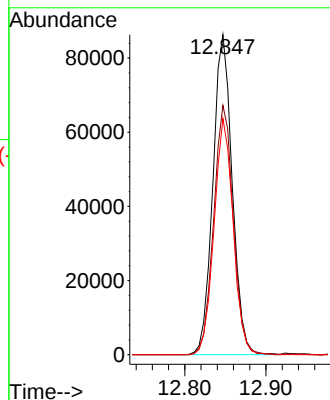
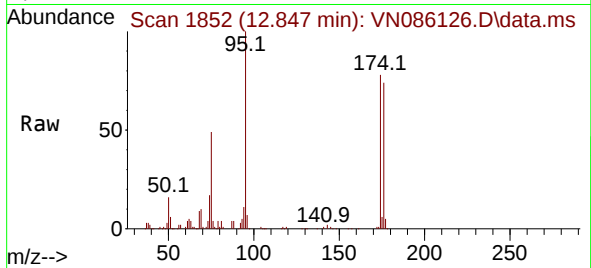




#62
4-Bromofluorobenzene
Concen: 48.056 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

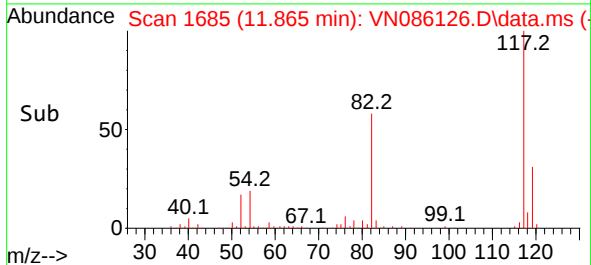
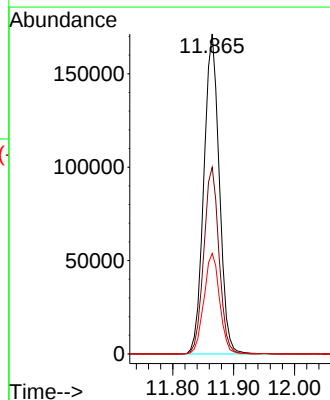
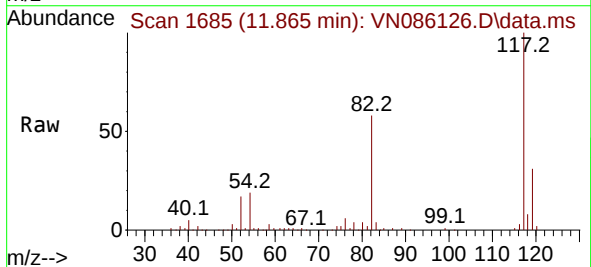
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

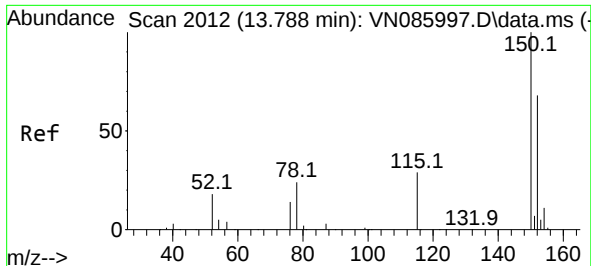
Tgt Ion: 95 Resp: 142831
Ion Ratio Lower Upper
95 100
174 79.1 0.0 156.8
176 73.2 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 117 Resp: 301635
Ion Ratio Lower Upper
117 100
82 58.3 46.7 70.1
119 31.4 26.5 39.7

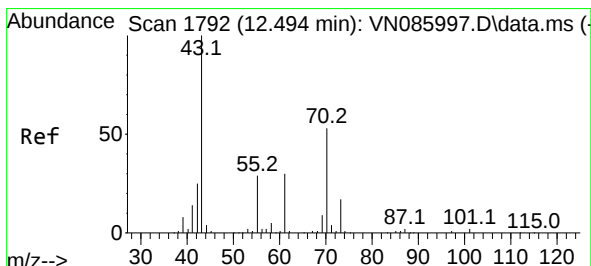
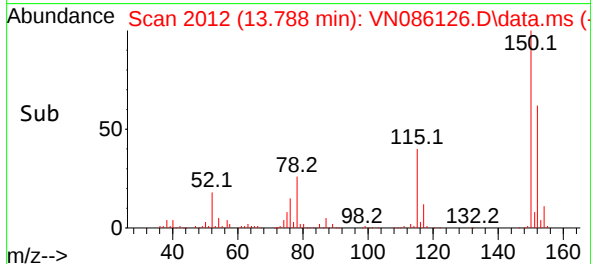
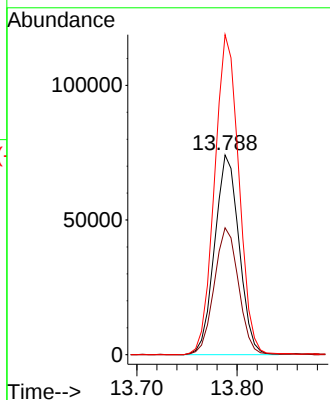
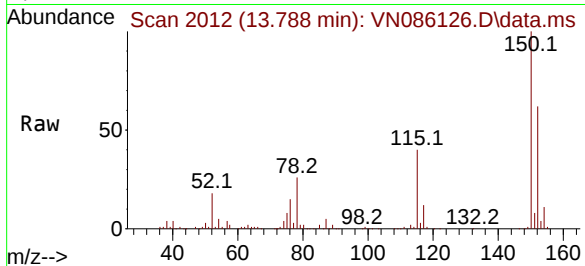




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

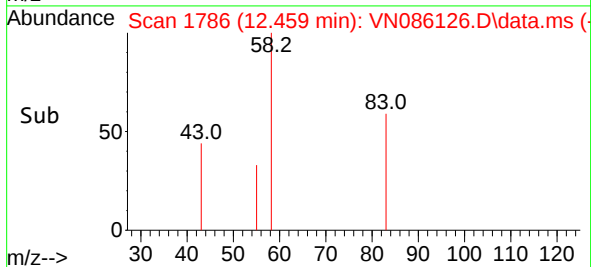
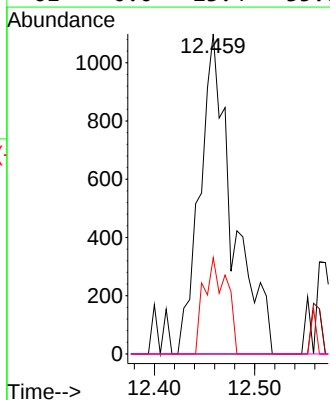
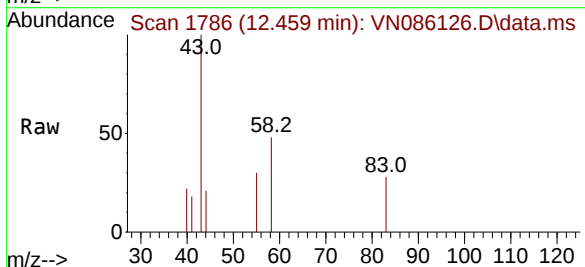
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

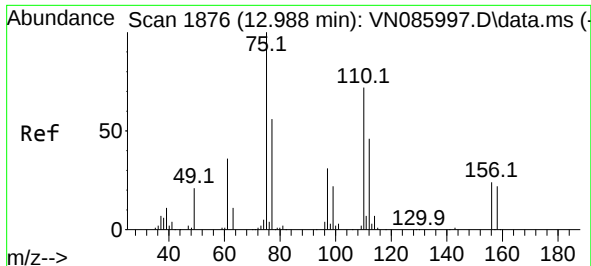
Tgt Ion:152 Resp: 125409
Ion Ratio Lower Upper
152 100
115 63.4 31.1 93.2
150 159.7 0.0 359.6



#74
N-ethyl acetate
Concen: 0.871 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.035 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 43 Resp: 2497
Ion Ratio Lower Upper
43 100
70 0.0 43.0 64.4#
55 20.8 23.8 35.8#
61 0.0 23.4 35.0#

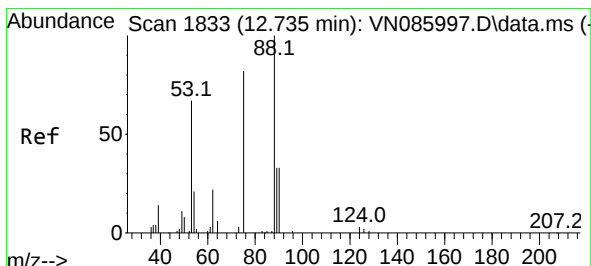
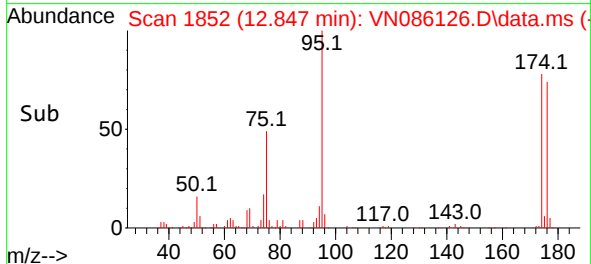
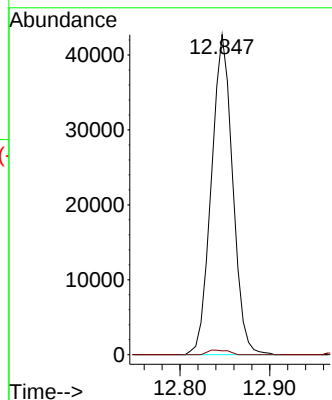
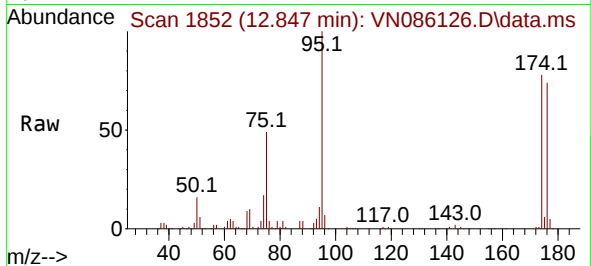




#76
1,2,3-Trichloropropane
Concen: 25.090 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

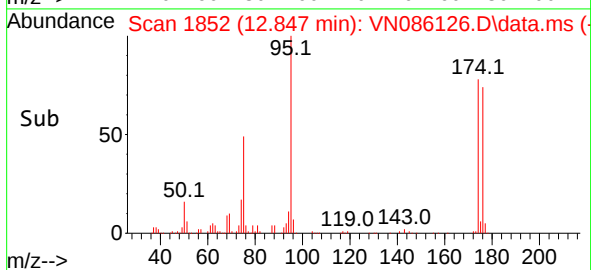
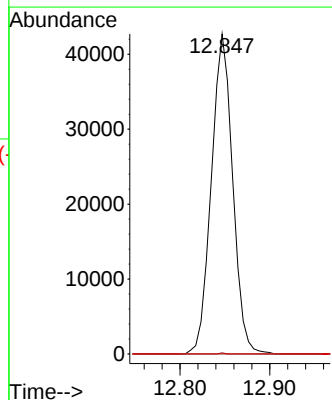
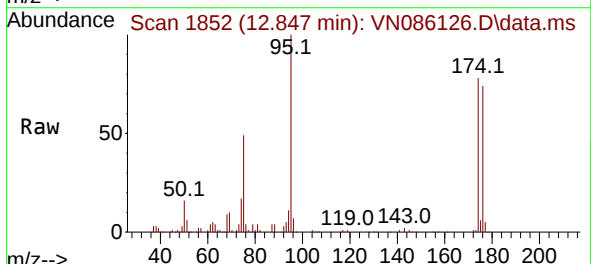
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

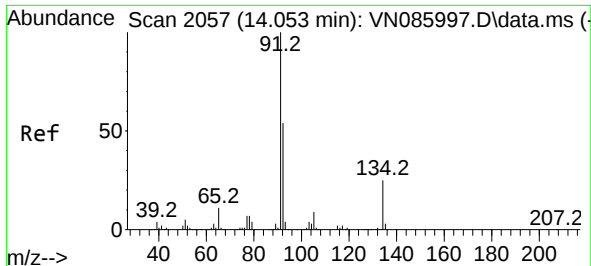
Tgt Ion: 75 Resp: 70445
Ion Ratio Lower Upper
75 100
77 1.4 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.334 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 75 Resp: 70445
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#

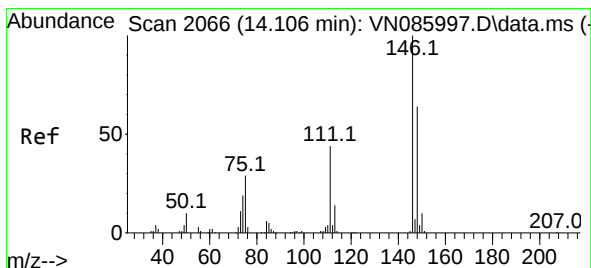
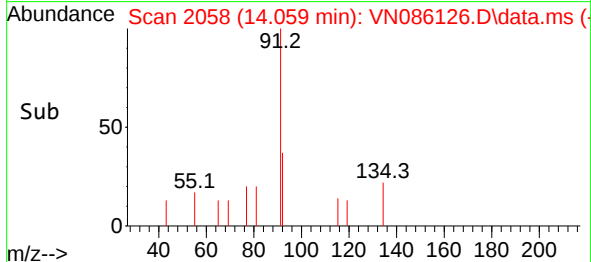
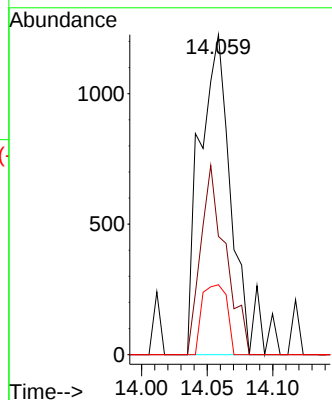
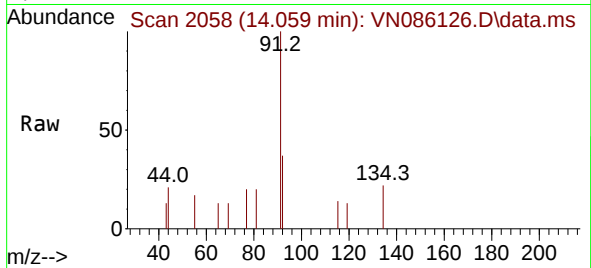




#89
n-Butylbenzene
Concen: 0.377 ug/l
RT: 14.059 min Scan# 2057
Delta R.T. 0.006 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

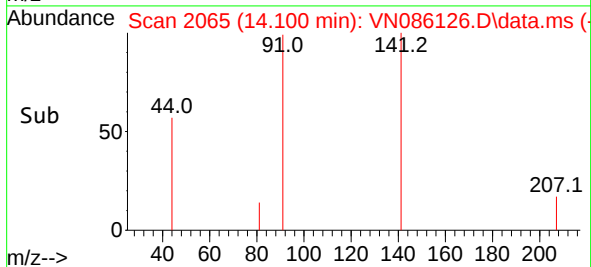
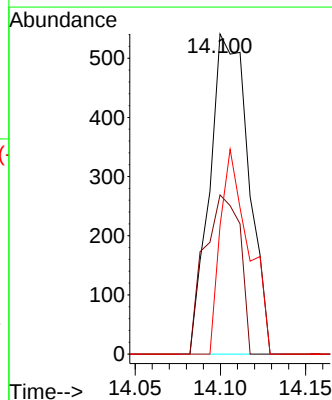
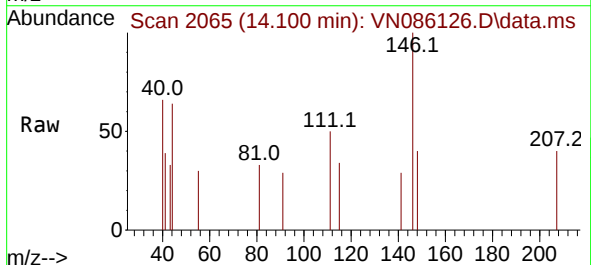
Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

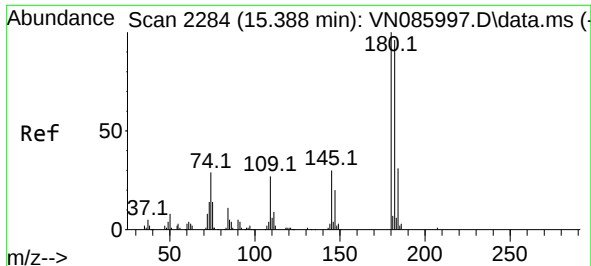
Tgt Ion: 91	Resp:	2095
Ion Ratio	Lower	Upper
91	100	
92	45.5	26.9 80.6
134	16.8	13.0 39.0



#91
1,2-Dichlorobenzene
Concen: 0.200 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion: 146	Resp:	856
Ion Ratio	Lower	Upper
146	100	
111	45.4	22.3 66.8
148	46.6	32.1 96.5





#93

1,2,4-Trichlorobenzene

Concen: 0.388 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086126.D

Acq: 26 Mar 2025 15:11

Instrument :

MSVOA_N

ClientSampleId :

PIER-1-2RE

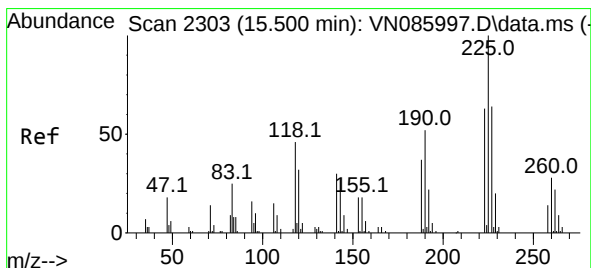
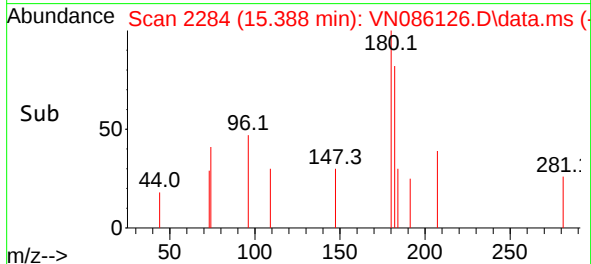
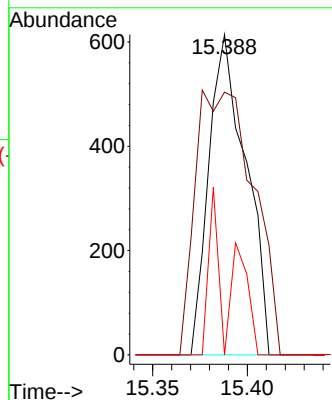
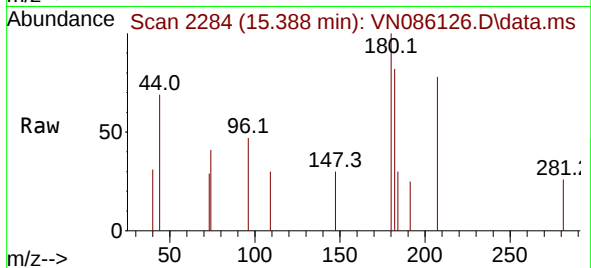
Tgt Ion:180 Resp: 835

Ion Ratio Lower Upper

180 100

182 129.1 47.0 141.0

145 13.5 15.5 46.5#



#94

Hexachlorobutadiene

Concen: 0.589 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086126.D

Acq: 26 Mar 2025 15:11

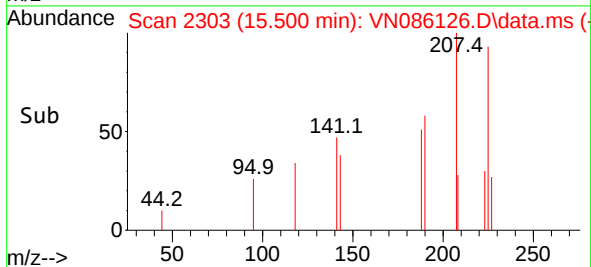
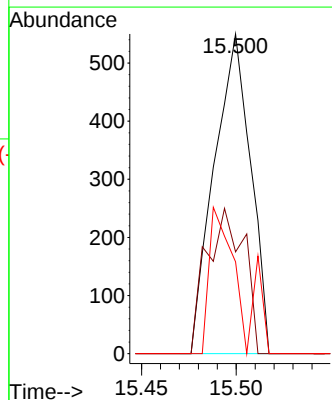
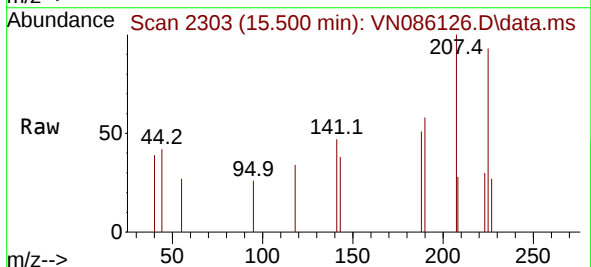
Tgt Ion:225 Resp: 735

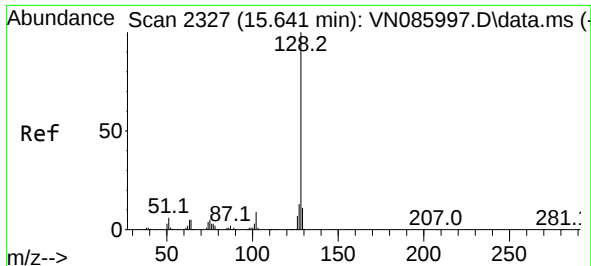
Ion Ratio Lower Upper

225 100

223 46.8 31.3 93.9

227 37.4 32.1 96.3

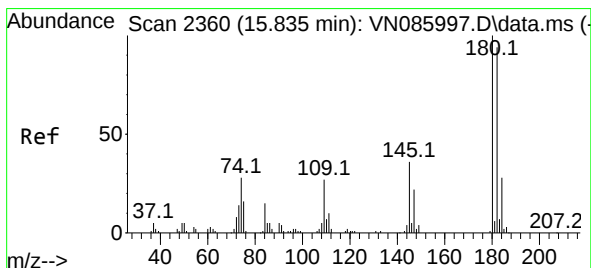
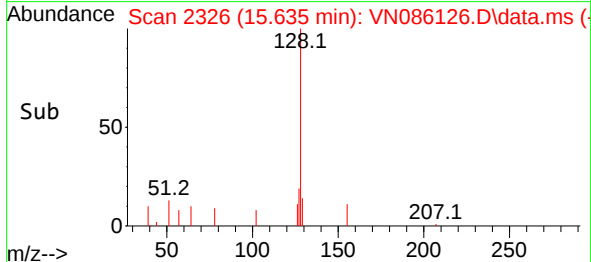
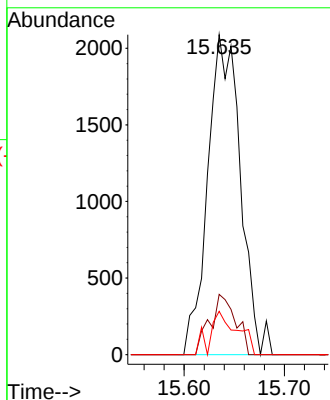
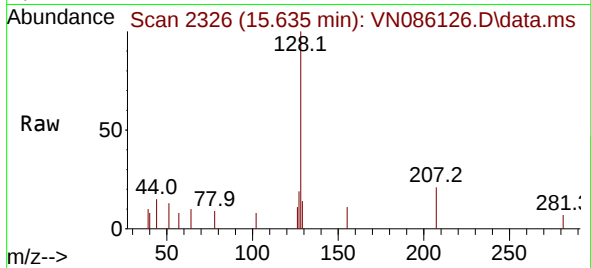




#95
Naphthalene
Concen: 0.760 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Instrument :
MSVOA_N
ClientSampleId :
PIER-1-2RE

Tgt Ion:128 Resp: 4735
Ion Ratio Lower Upper
128 100
127 14.8 10.2 15.4
129 11.3 9.0 13.6



#96
1,2,3-Trichlorobenzene
Concen: 0.650 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086126.D
Acq: 26 Mar 2025 15:11

Tgt Ion:180 Resp: 1327
Ion Ratio Lower Upper
180 100
182 97.1 47.5 142.5
145 39.9 17.7 53.1

