

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
 Data File : VN087288.D
 Acq On : 07 Jul 2025 12:44
 Operator : JC\MD
 Sample : Q2487-22
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 G2(2.5)

Quant Time: Jul 08 01:32:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

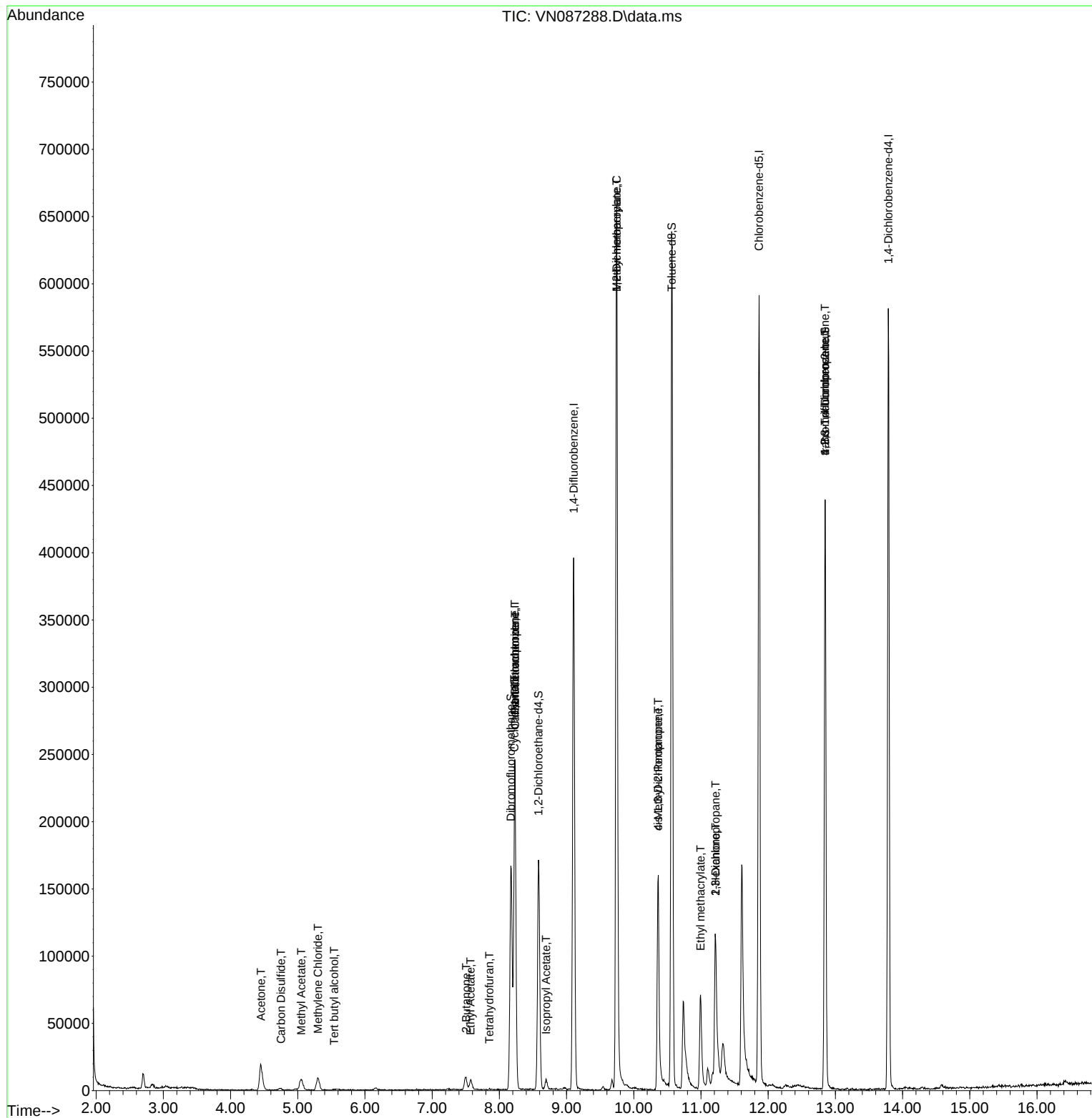
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	193002	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	368733	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	358573	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	170388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	143492	59.238	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 118.480%	
35) Dibromofluoromethane	8.171	113	125690	53.235	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.480%	
50) Toluene-d8	10.565	98	464230	50.444	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.880%	
62) 4-Bromofluorobenzene	12.847	95	158480	48.399	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 96.800%	
Target Compounds						Qvalue
11) Tert butyl alcohol	5.541	59	1076	2.437	ug/l #	72
16) Acetone	4.453	43	37169	40.136	ug/l	100
17) Carbon Disulfide	4.753	76	1644	0.305	ug/l #	76
18) Methyl Acetate	5.053	43	18324	8.643	ug/l	93
20) Methylene Chloride	5.300	84	7973	3.886	ug/l	96
25) 2-Butanone	7.506	43	15488	10.702	ug/l	97
29) Tetrahydrofuran	7.853	42	197	0.211	ug/l #	65
31) Cyclohexane	8.224	56	3286	0.996	ug/l #	2
36) 1,1-Dichloropropene	8.229	75	13925	4.337	ug/l #	46
37) Ethyl Acetate	7.571	43	11501	3.332	ug/l	98
38) Carbon Tetrachloride	8.235	117	18668	5.131	ug/l #	16
43) Isopropyl Acetate	8.694	43	7992	1.493	ug/l #	91
45) 1,2-Dichloropropane	9.747	63	692	0.319	ug/l #	45
48) Methyl methacrylate	9.747	41	63058	27.952	ug/l #	36
51) 4-Methyl-2-Pentanone	10.365	43	65854	20.108	ug/l #	45
54) cis-1,3-Dichloropropene	10.365	75	37303	9.701	ug/l #	62
56) Ethyl methacrylate	10.994	69	840	0.233	ug/l #	1
57) 1,3-Dichloropropane	11.218	76	1694	0.421	ug/l #	41
59) 2-Hexanone	11.218	43	18239	7.775	ug/l	63
76) 1,2,3-Trichloropropane	12.847	75	75954	23.436	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75954	55.049	ug/l #	14

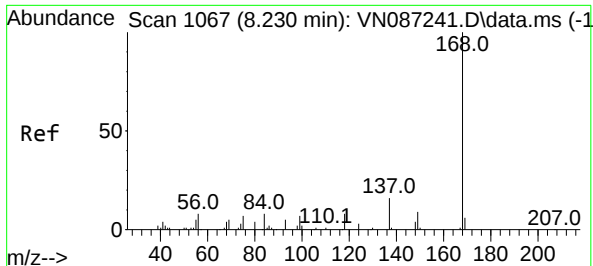
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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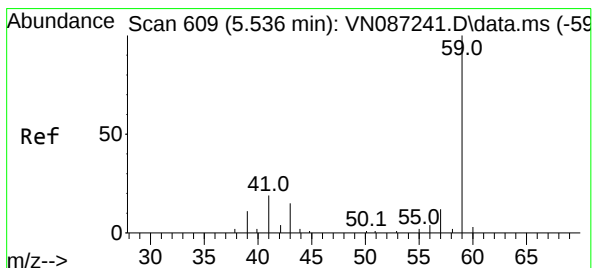
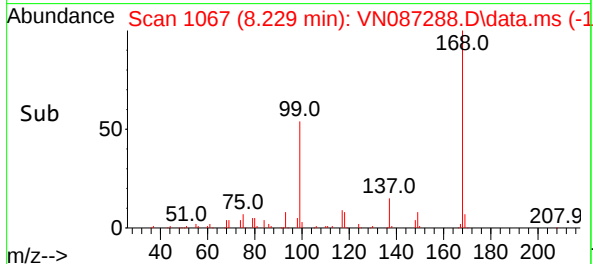
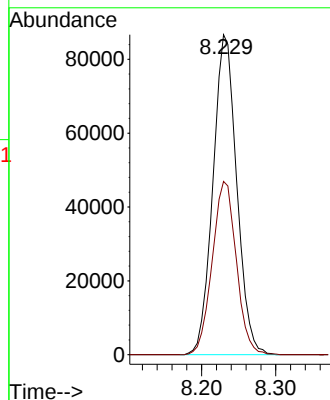
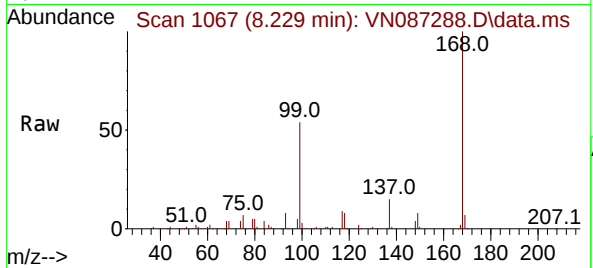




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

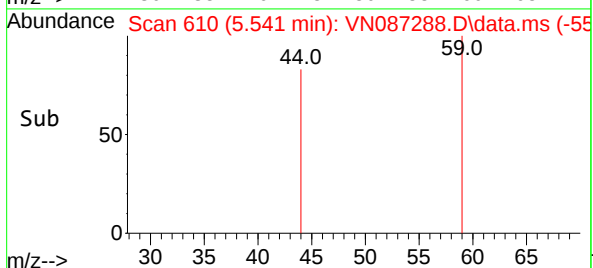
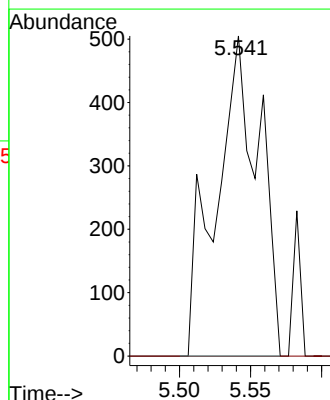
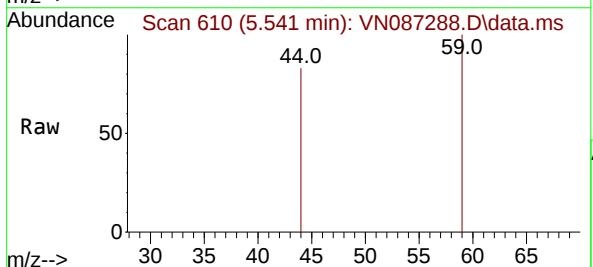
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

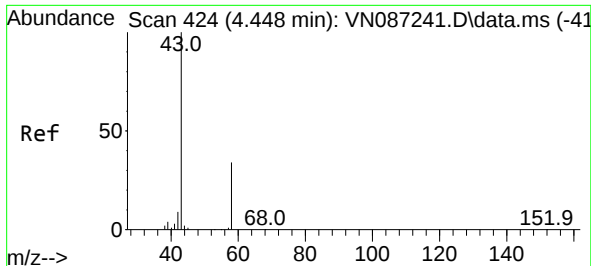
Tgt Ion:168 Resp: 193002
Ion Ratio Lower Upper
168 100
99 54.2 42.6 64.0



#11
Tert butyl alcohol
Concen: 2.437 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 59 Resp: 1076
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#16

Acetone

Concen: 40.136 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN087288.D

Acq: 07 Jul 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

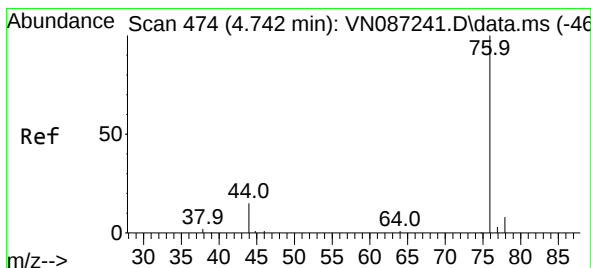
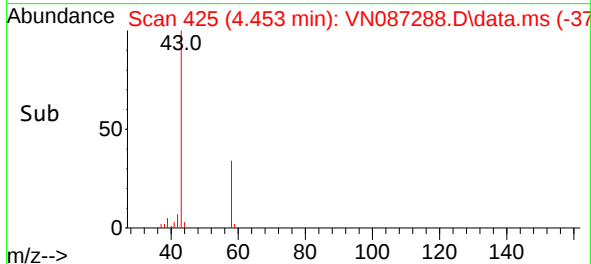
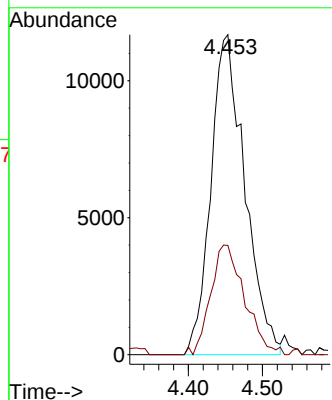
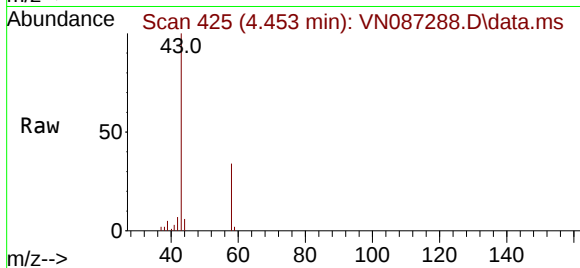
G2(2.5)

Tgt Ion: 43 Resp: 37169

Ion Ratio Lower Upper

43 100

58 34.1 27.1 40.7



#17

Carbon Disulfide

Concen: 0.305 ug/l

RT: 4.753 min Scan# 476

Delta R.T. 0.012 min

Lab File: VN087288.D

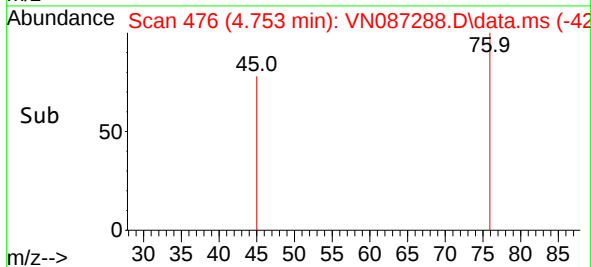
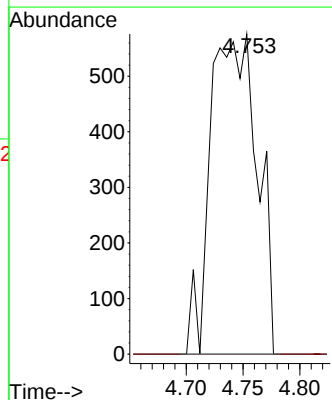
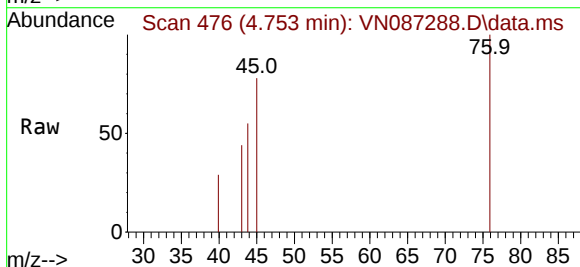
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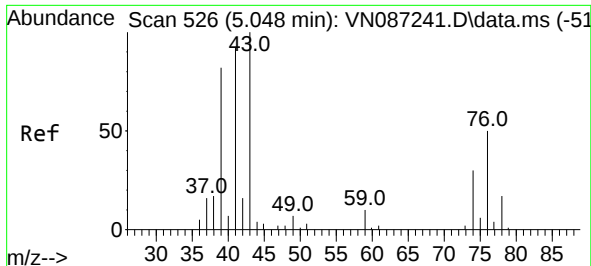
Tgt Ion: 76 Resp: 1644

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#

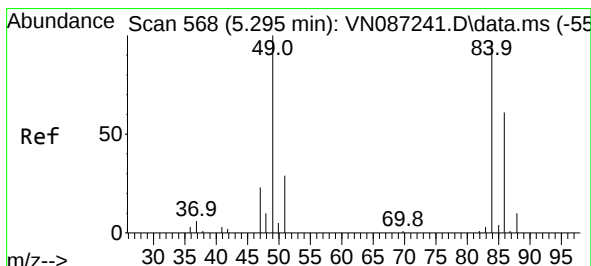
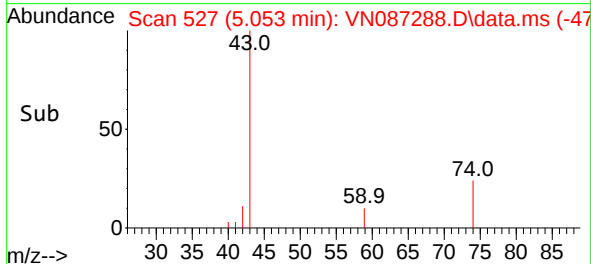
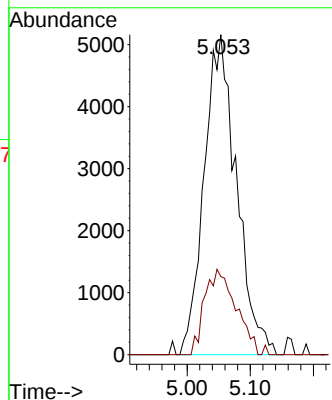
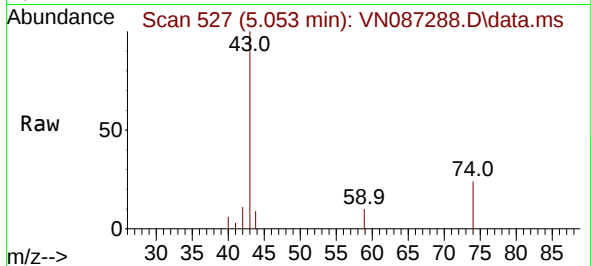




#18
Methyl Acetate
Concen: 8.643 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

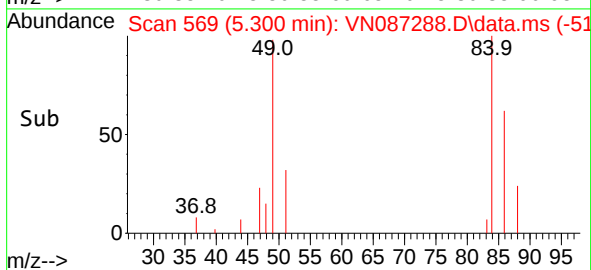
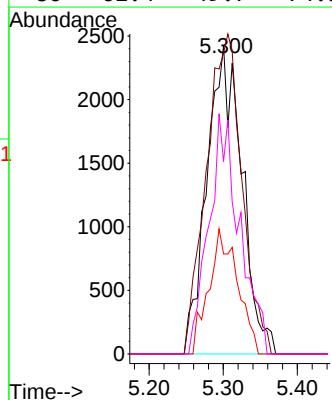
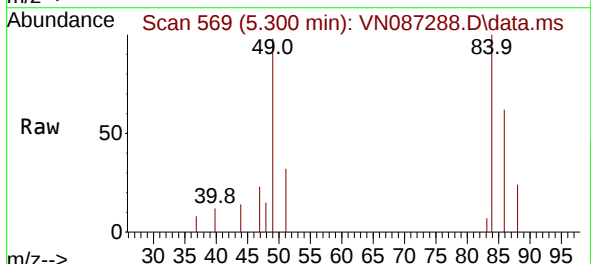
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

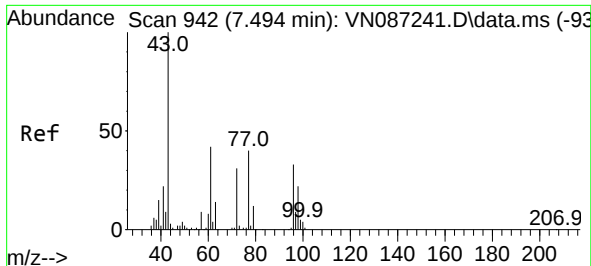
Tgt Ion: 43 Resp: 18324
Ion Ratio Lower Upper
43 100
74 25.9 23.8 35.6



#20
Methylene Chloride
Concen: 3.886 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 84 Resp: 7973
Ion Ratio Lower Upper
84 100
49 97.6 82.1 123.1
51 32.5 23.5 35.3
86 62.4 49.7 74.5

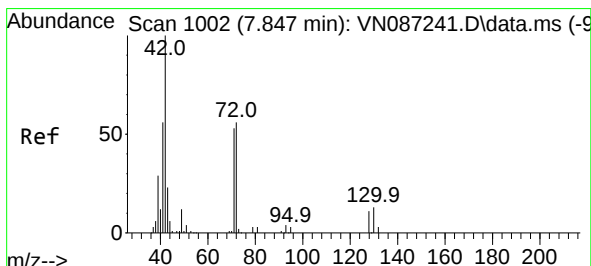
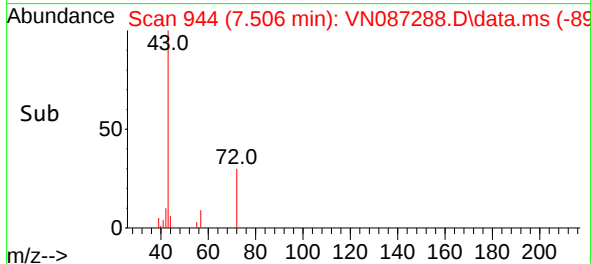
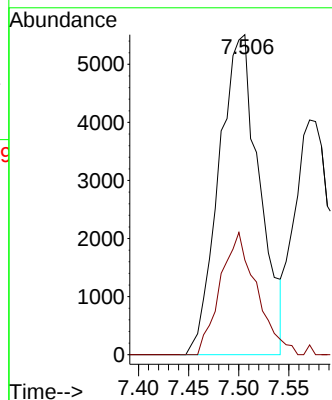
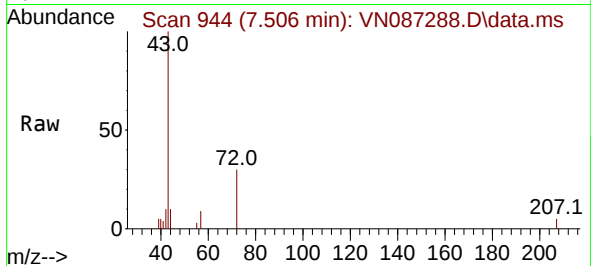




#25
2-Butanone
Concen: 10.702 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

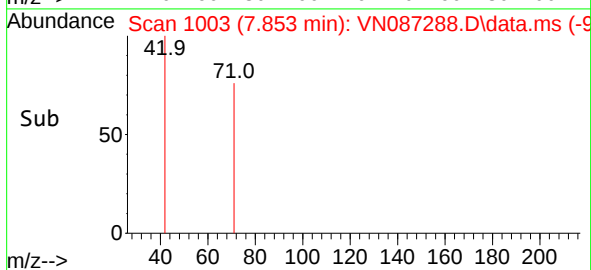
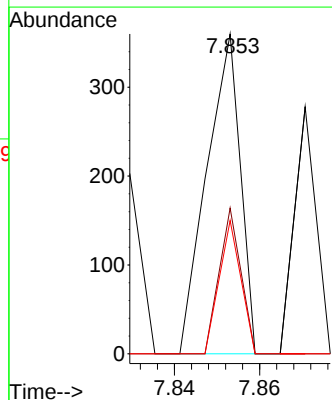
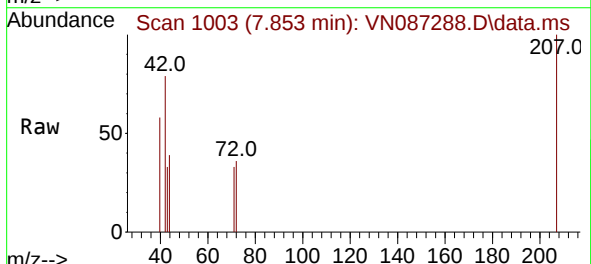
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

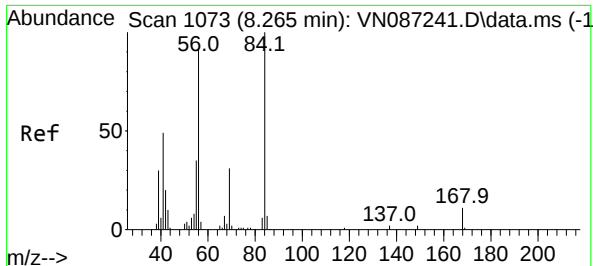
Tgt Ion: 43 Resp: 15488
Ion Ratio Lower Upper
43 100
72 29.6 24.8 37.2



#29
Tetrahydrofuran
Concen: 0.211 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 42 Resp: 197
Ion Ratio Lower Upper
42 100
72 29.4 44.2 66.4#
71 26.9 41.1 61.7#

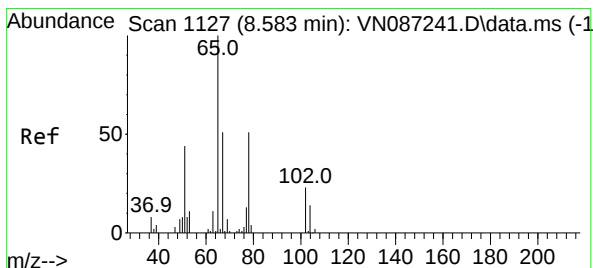
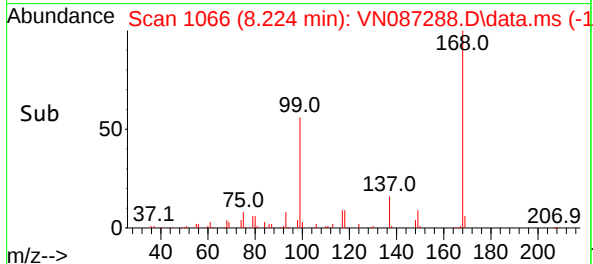
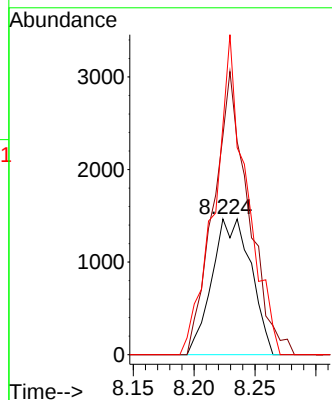
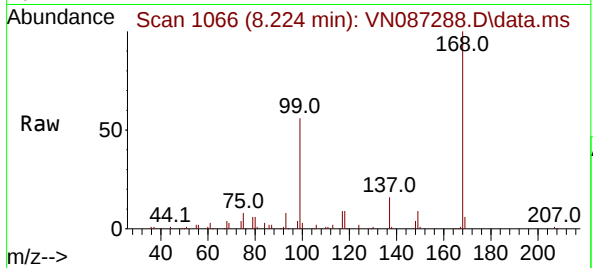




#31
Cyclohexane
Concen: 0.996 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

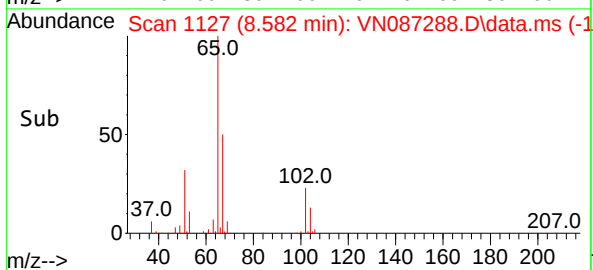
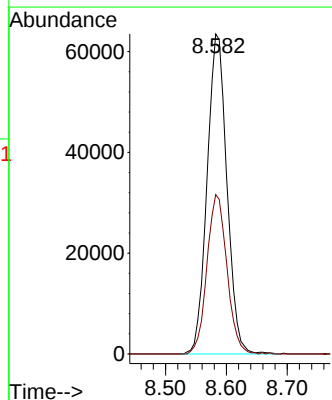
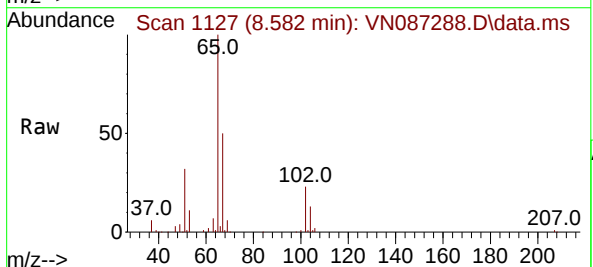
Instrument :
MSVOA_N
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G2(2.5)

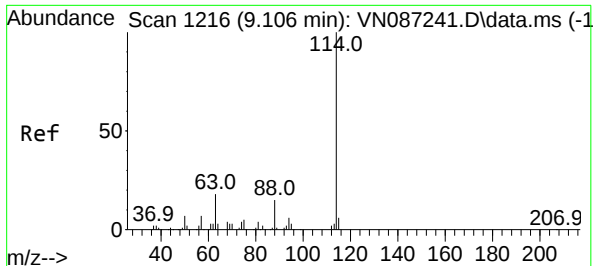
Tgt Ion: 56 Resp: 3286
Ion Ratio Lower Upper
56 100
69 161.6 27.0 40.6#
84 169.0 86.2 129.4#



#33
1,2-Dichloroethane-d4
Concen: 59.238 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 65 Resp: 143492
Ion Ratio Lower Upper
65 100
67 50.2 0.0 102.6

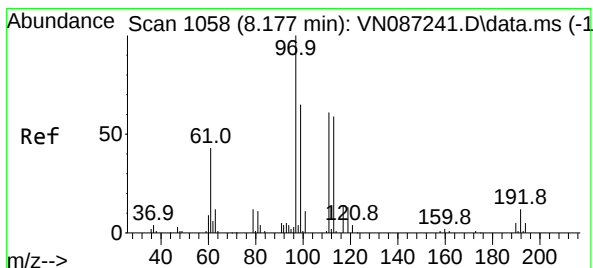
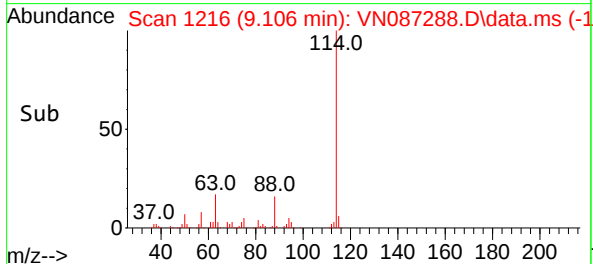
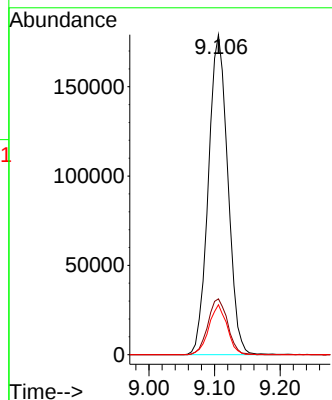
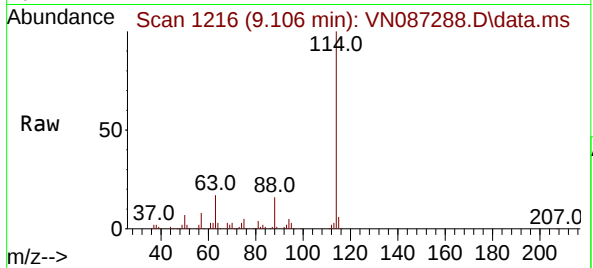




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

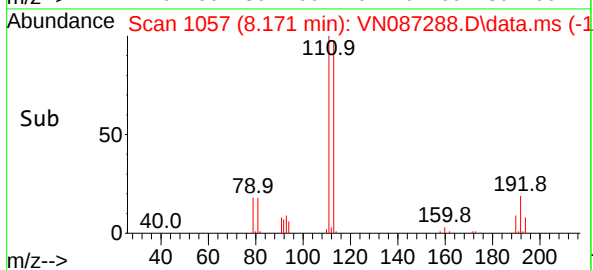
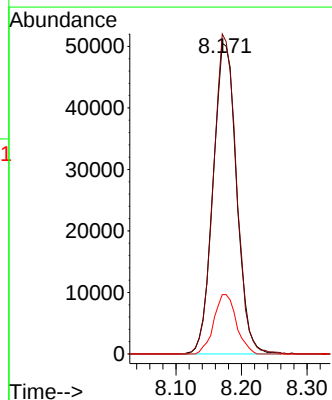
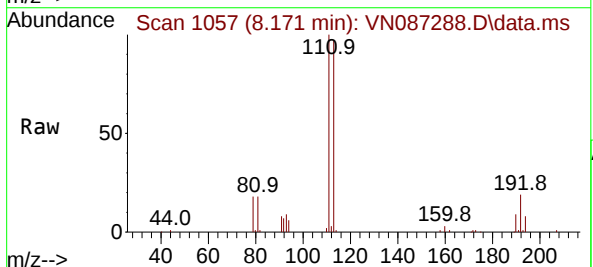
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G2(2.5)

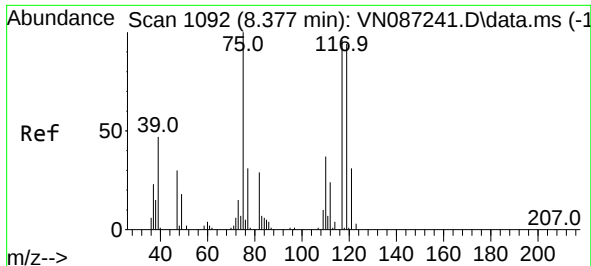
Tgt Ion:114 Resp: 368733
Ion Ratio Lower Upper
114 100
63 17.4 0.0 36.6
88 15.6 0.0 29.6



#35
Dibromofluoromethane
Concen: 53.235 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion:113 Resp: 125690
Ion Ratio Lower Upper
113 100
111 100.9 81.4 122.2
192 18.3 15.1 22.7

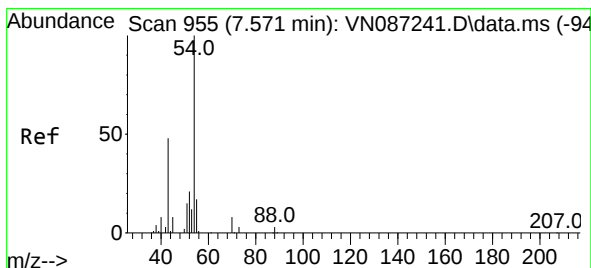
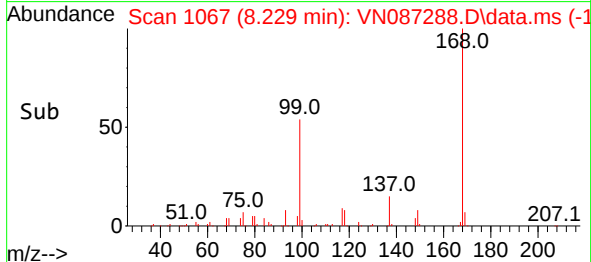
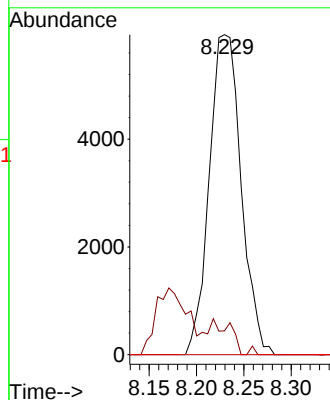
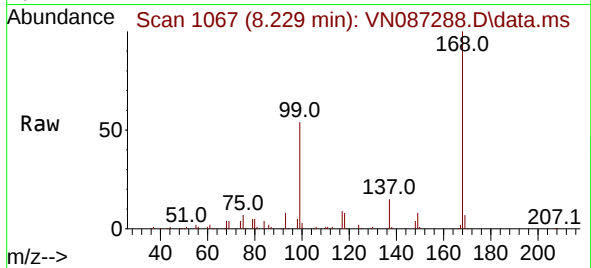




#36
1,1-Dichloropropene
Concen: 4.337 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

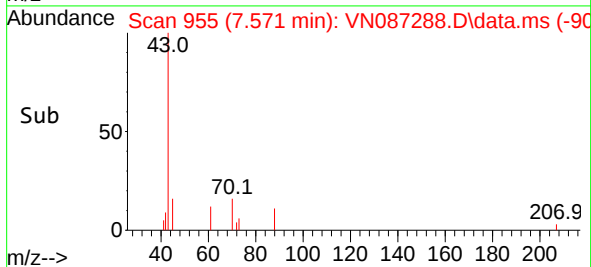
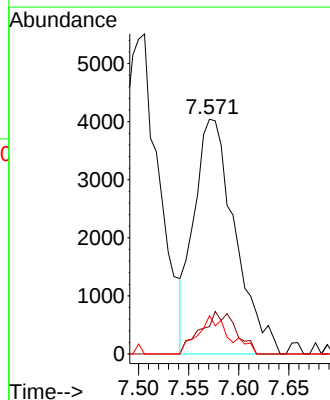
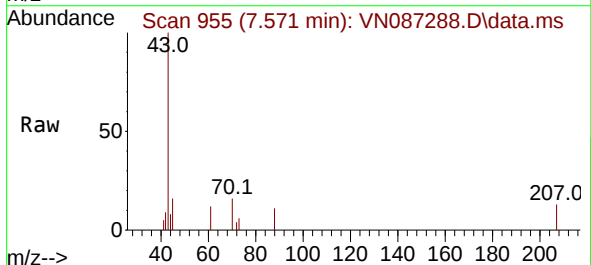
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

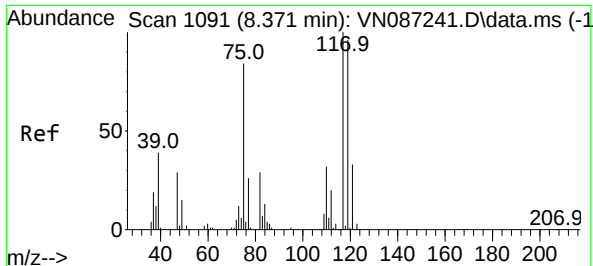
Tgt Ion: 75 Resp: 13925
Ion Ratio Lower Upper
75 100
110 6.4 18.7 56.1#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 3.332 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 43 Resp: 11501
Ion Ratio Lower Upper
43 100
61 15.6 11.3 16.9
70 12.5 9.9 14.9

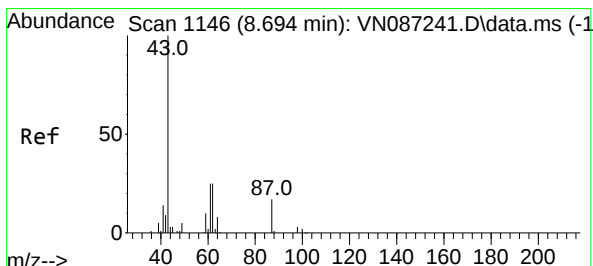
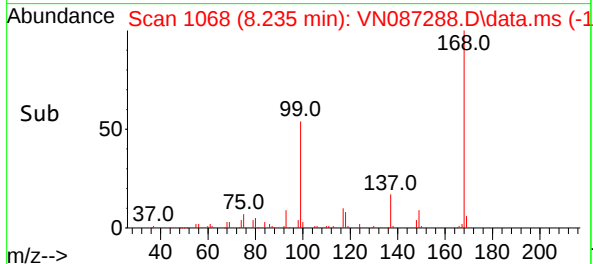
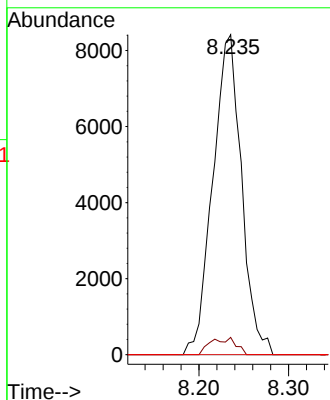
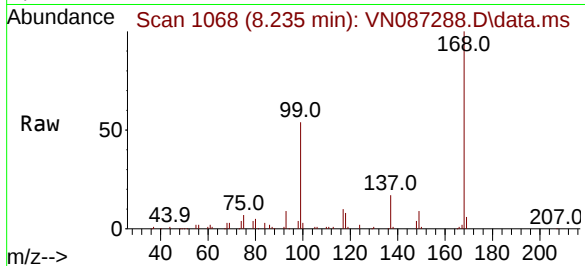




#38
Carbon Tetrachloride
Concen: 5.131 ug/l
RT: 8.235 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

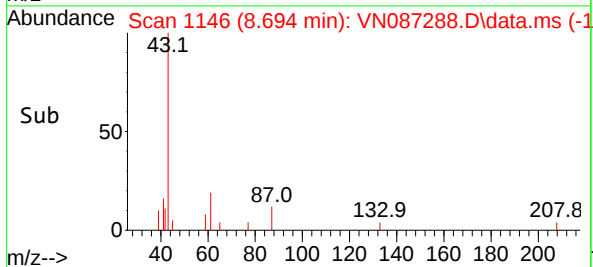
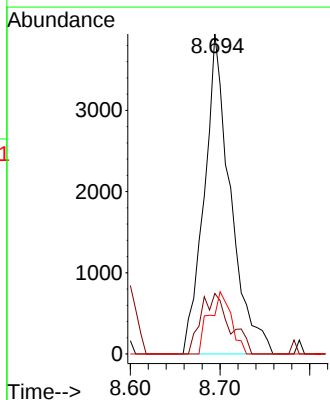
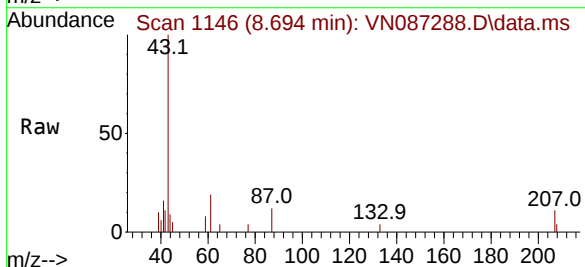
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

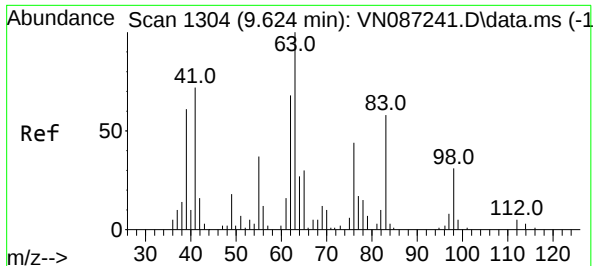
Tgt Ion:117 Resp: 18668
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 26.6 39.8#



#43
Isopropyl Acetate
Concen: 1.493 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 43 Resp: 7992
Ion Ratio Lower Upper
43 100
61 20.8 22.4 33.6#
87 16.2 12.8 19.2





#45

1,2-Dichloropropane

Concen: 0.319 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN087288.D

Acq: 07 Jul 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

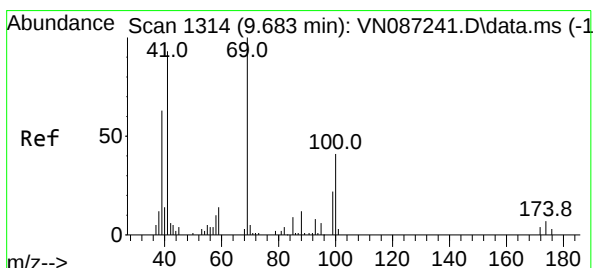
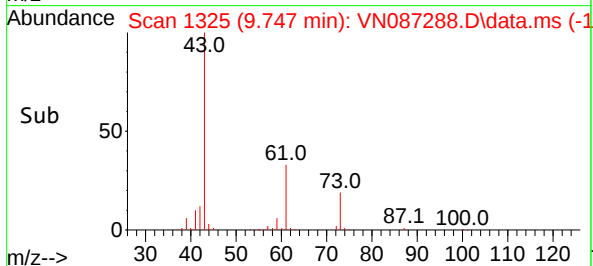
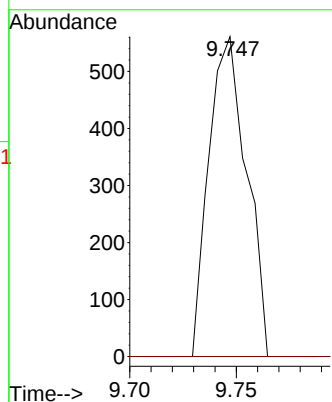
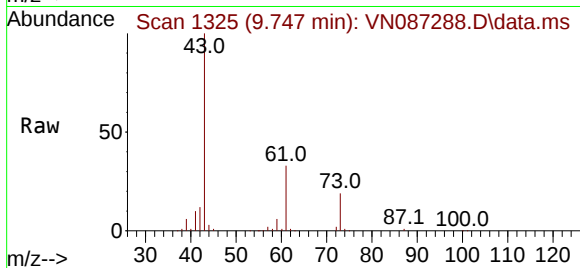
G2(2.5)

Tgt Ion: 63 Resp: 692

Ion Ratio Lower Upper

63 100

65 0.0 23.8 35.8#



#48

Methyl methacrylate

Concen: 27.952 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087288.D

Acq: 07 Jul 2025 12:44

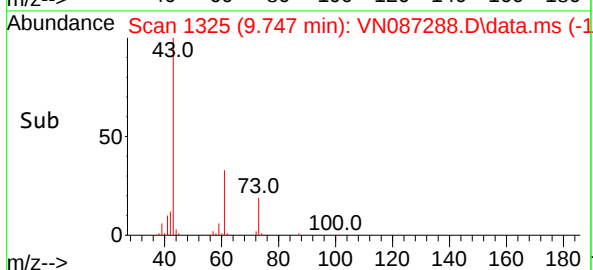
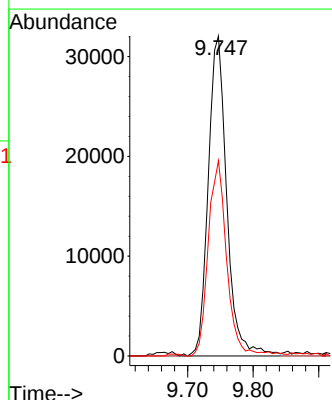
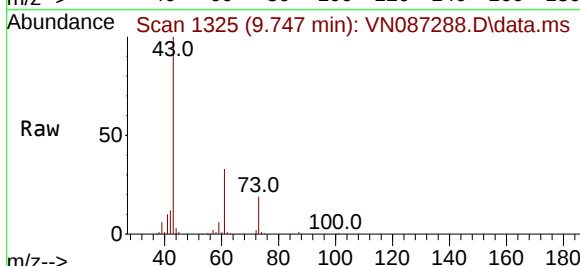
Tgt Ion: 41 Resp: 63058

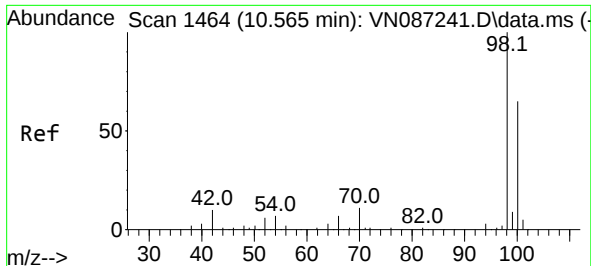
Ion Ratio Lower Upper

41 100

69 0.0 81.4 122.2#

39 61.3 56.9 85.3

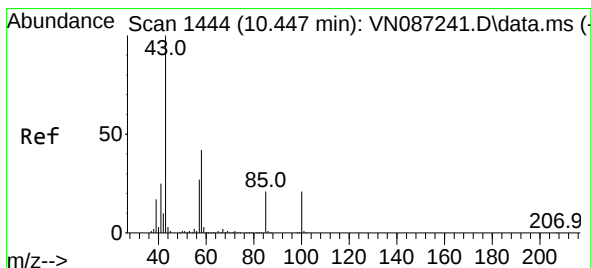
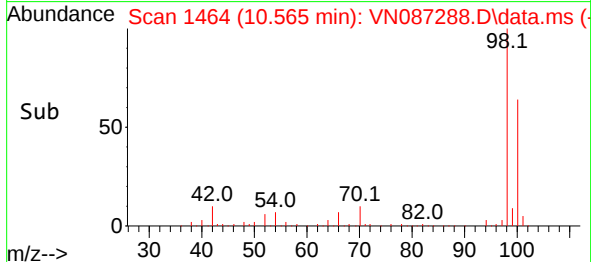
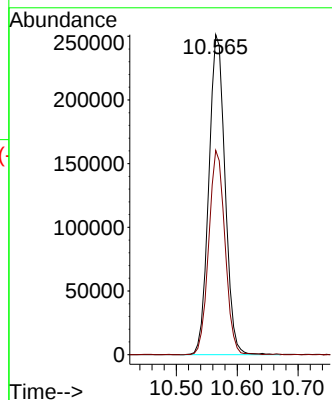
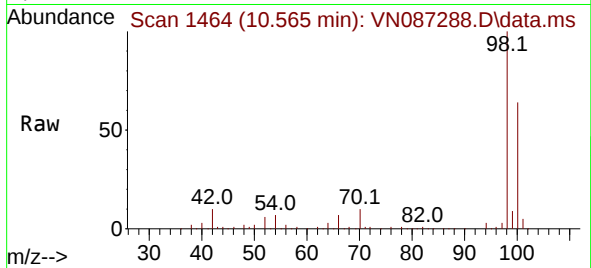




#50
Toluene-d8
Concen: 50.444 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

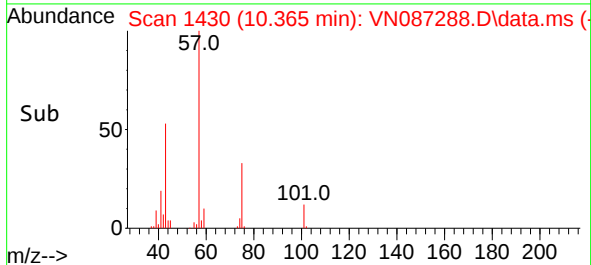
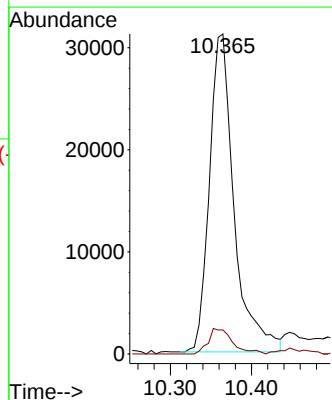
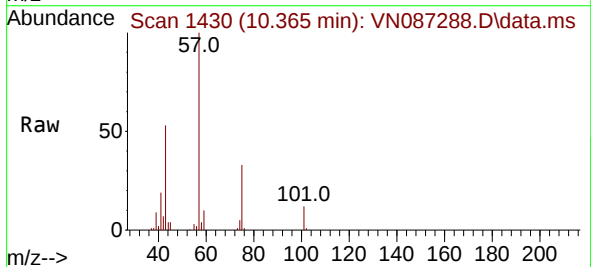
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

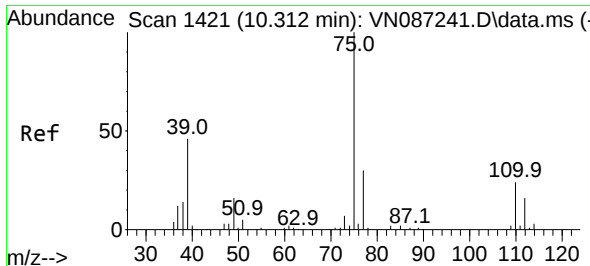
Tgt Ion: 98 Resp: 464230
Ion Ratio Lower Upper
98 100
100 63.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 20.108 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.083 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 43 Resp: 65854
Ion Ratio Lower Upper
43 100
58 7.9 34.2 51.2#

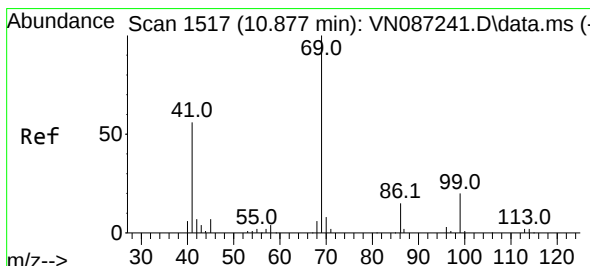
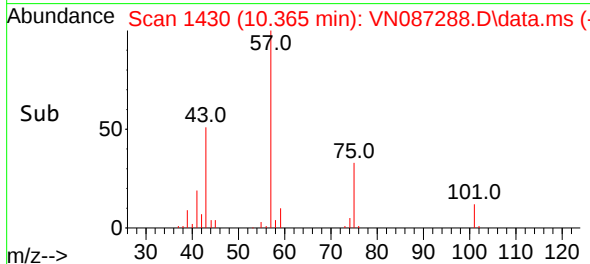
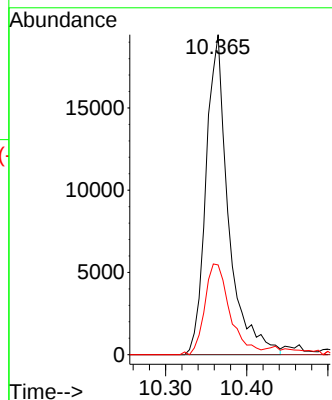
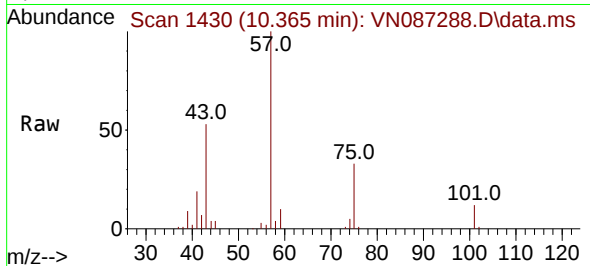




#54
 cis-1,3-Dichloropropene
 Concen: 9.701 ug/l
 RT: 10.365 min Scan# 1421
 Delta R.T. 0.053 min
 Lab File: VN087288.D
 Acq: 07 Jul 2025 12:44

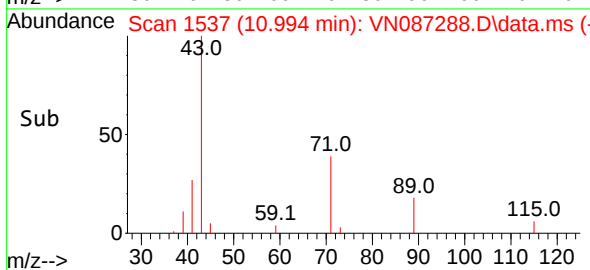
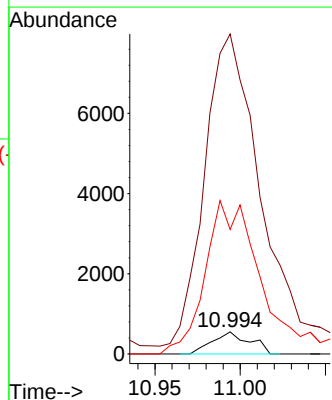
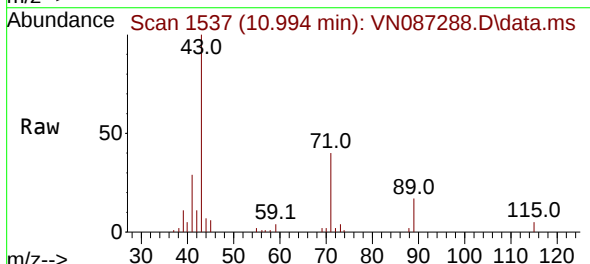
Instrument :
 MSVOA_N
 ClientSampleId :
 G2(2.5)

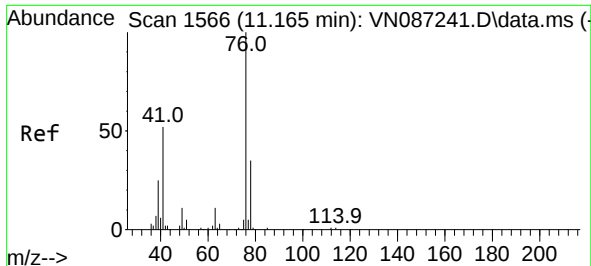
Tgt Ion: 75 Resp: 37303
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.1 36.1#
 39 28.1 36.7 55.1#



#56
 Ethyl methacrylate
 Concen: 0.233 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.117 min
 Lab File: VN087288.D
 Acq: 07 Jul 2025 12:44

Tgt Ion: 69 Resp: 840
 Ion Ratio Lower Upper
 69 100
 41 2140.2 44.2 66.4#
 39 1019.9 29.5 44.3#





#57

1,3-Dichloropropane

Concen: 0.421 ug/l

RT: 11.218 min Scan# 1575

Delta R.T. 0.053 min

Lab File: VN087288.D

Acq: 07 Jul 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

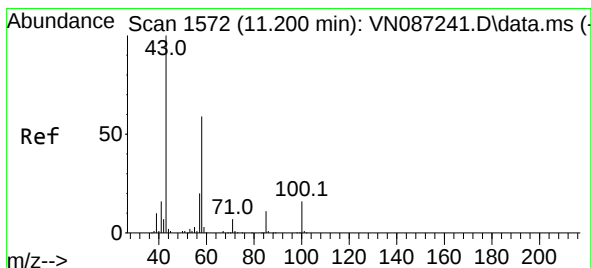
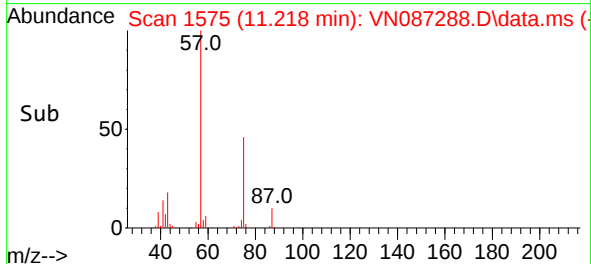
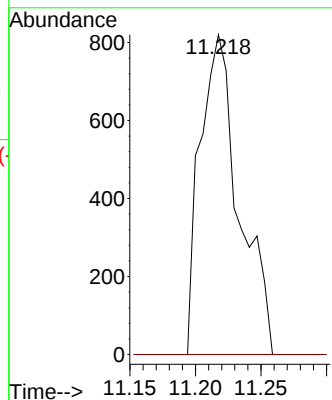
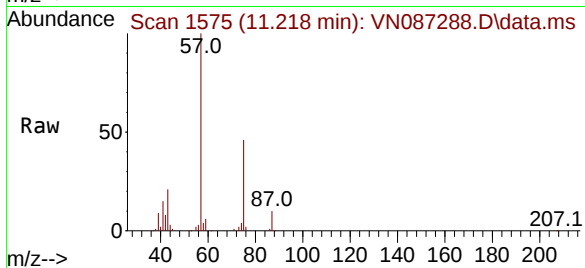
G2(2.5)

Tgt Ion: 76 Resp: 1694

Ion Ratio Lower Upper

76 100

78 0.0 27.1 40.7#



#59

2-Hexanone

Concen: 7.775 ug/l

RT: 11.218 min Scan# 1575

Delta R.T. 0.018 min

Lab File: VN087288.D

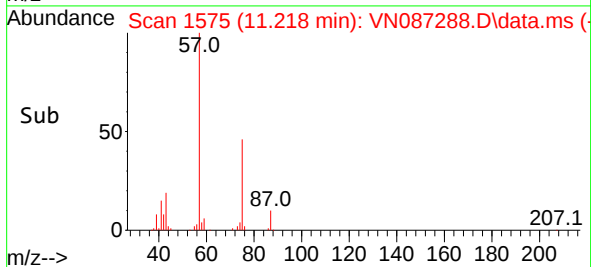
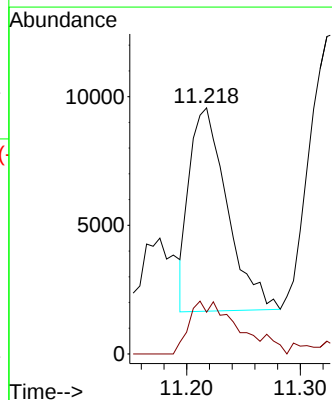
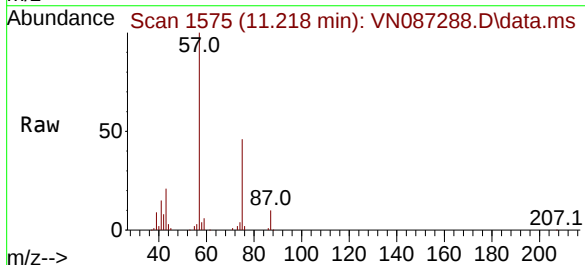
Acq: 07 Jul 2025 12:44

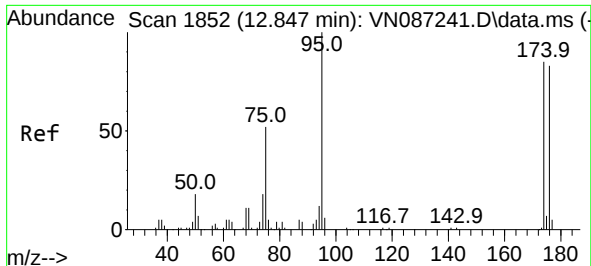
Tgt Ion: 43 Resp: 18239

Ion Ratio Lower Upper

43 100

58 34.0 31.1 93.3

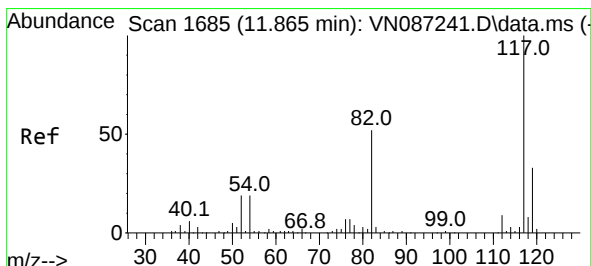
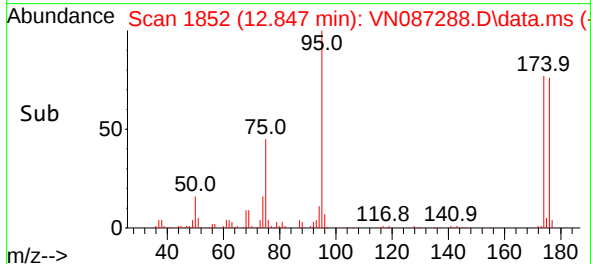
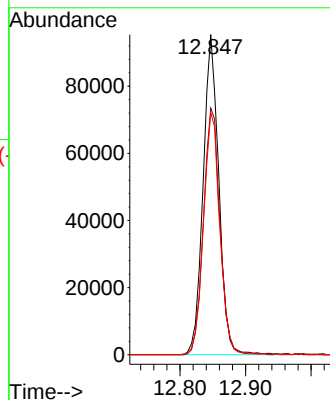
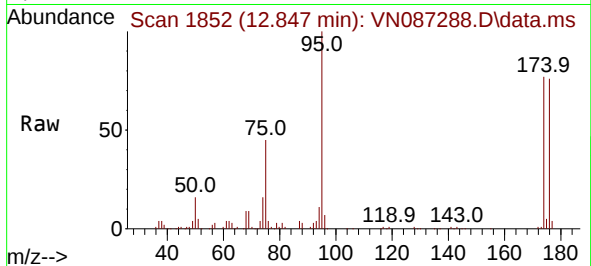




#62
4-Bromofluorobenzene
Concen: 48.399 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

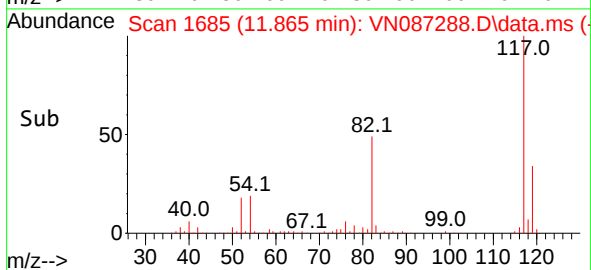
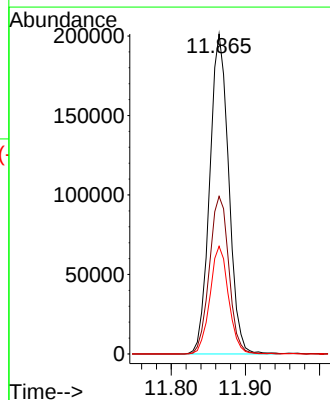
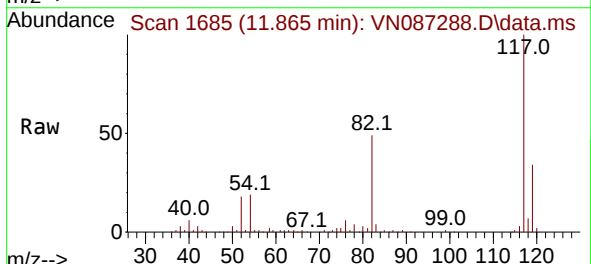
Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

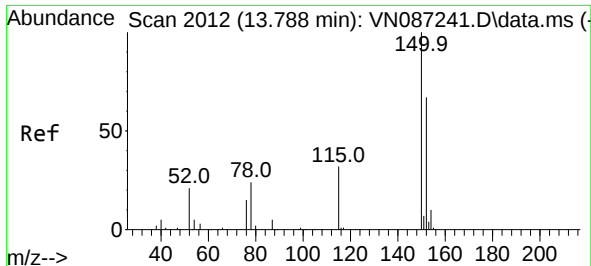
Tgt Ion: 95 Resp: 158480
Ion Ratio Lower Upper
95 100
174 81.6 0.0 169.6
176 78.5 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Tgt Ion: 117 Resp: 358573
Ion Ratio Lower Upper
117 100
82 49.3 41.9 62.9
119 33.6 26.2 39.4

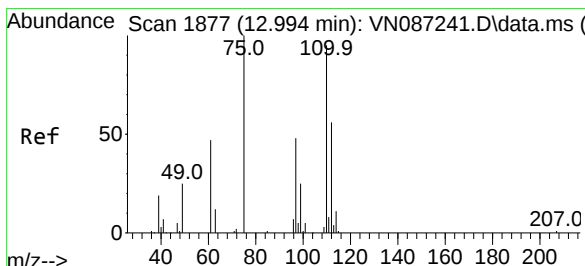
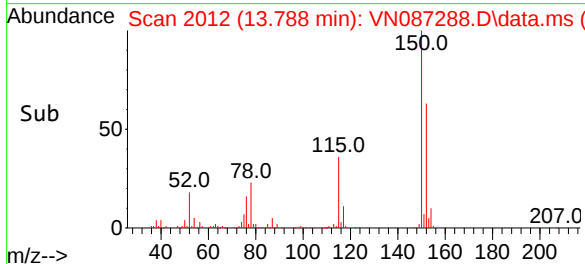
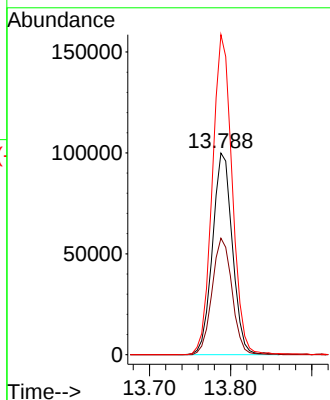
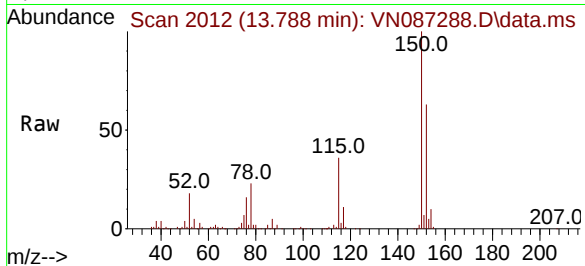




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN087288.D
 Acq: 07 Jul 2025 12:44

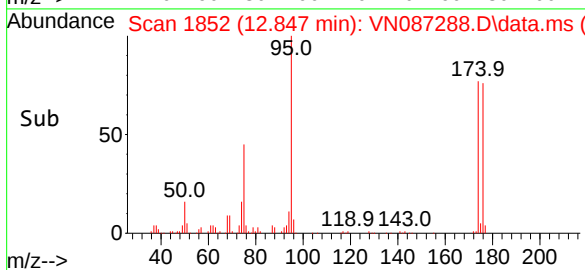
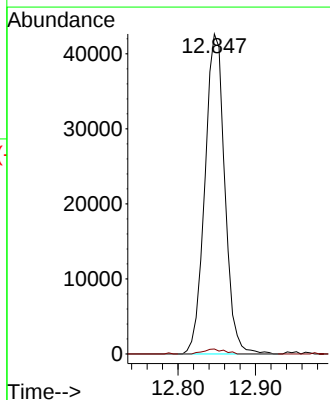
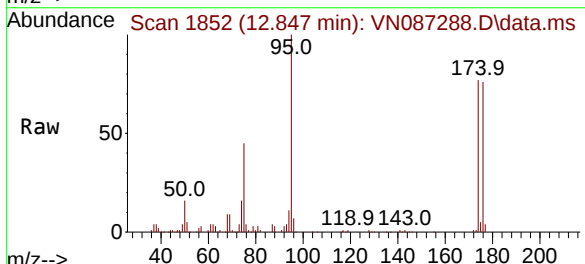
Instrument :
 MSVOA_N
 ClientSampleId :
 G2(2.5)

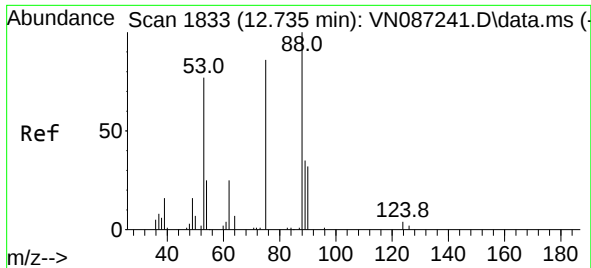
Tgt Ion:152 Resp: 170388
 Ion Ratio Lower Upper
 152 100
 115 57.9 28.3 84.9
 150 158.3 0.0 344.6



#76
 1,2,3-Trichloropropane
 Concen: 23.436 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087288.D
 Acq: 07 Jul 2025 12:44

Tgt Ion: 75 Resp: 75954
 Ion Ratio Lower Upper
 75 100
 77 1.6 82.0 245.8#





#81
trans-1,4-Dichloro-2-butene
Concen: 55.049 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087288.D
Acq: 07 Jul 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
G2(2.5)

Tgt Ion: 75 Resp: 75954
Ion Ratio Lower Upper
75 100
53 0.0 70.6 105.8#
89 0.2 36.1 54.1#

