

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088117.D
 Acq On : 27 Oct 2025 16:17
 Operator : JC\MD
 Sample : Q3452-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JB-1

Quant Time: Oct 28 01:29:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	242070	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	547486	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	538103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	257845	50.000	ug/l	0.00

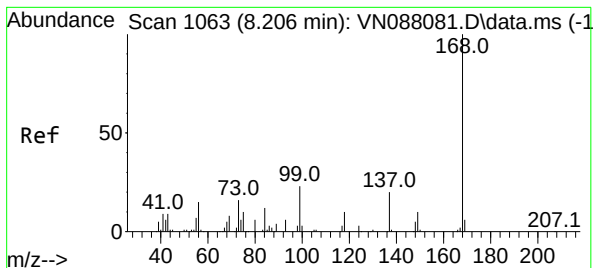
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	234463	56.013	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.020%
35) Dibromofluoromethane	8.147	113	173065	47.054	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.100%
50) Toluene-d8	10.547	98	648356	45.749	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.500%
62) 4-Bromofluorobenzene	12.829	95	244033	48.757	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.520%

Target Compounds					Qvalue	
11) Tert butyl alcohol	5.506	59	418	0.580	ug/l #	71
16) Acetone	4.424	43	39580	18.821	ug/l	99
18) Methyl Acetate	5.024	43	4812	1.118	ug/l #	82
20) Methylene Chloride	5.271	84	36860	11.860	ug/l	94
25) 2-Butanone	7.488	43	5734	2.069	ug/l	94
29) Tetrahydrofuran	7.830	42	1043	0.577	ug/l #	67
31) Cyclohexane	8.206	56	7512	1.282	ug/l #	1
36) 1,1-Dichloropropene	8.206	75	24971	4.650	ug/l #	52
38) Carbon Tetrachloride	8.206	117	28969	5.223	ug/l #	14
43) Isopropyl Acetate	8.677	43	28159	2.644	ug/l #	92
45) 1,2-Dichloropropane	9.718	63	1329	0.322	ug/l #	43
48) Methyl methacrylate	9.724	41	110955	22.567	ug/l #	47
51) 4-Methyl-2-Pentanone	10.424	43	3356	0.533	ug/l #	36
54) cis-1,3-Dichloropropene	10.335	75	42038	6.313	ug/l #	67
57) 1,3-Dichloropropane	11.182	76	2633	0.392	ug/l #	42
59) 2-Hexanone	11.188	43	39252	9.392	ug/l #	56
71) Bromoform	12.829	173	1183	0.396	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	140889	23.899	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	140889	66.668	ug/l #	1

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

Quant Time: Oct 28 01:29:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

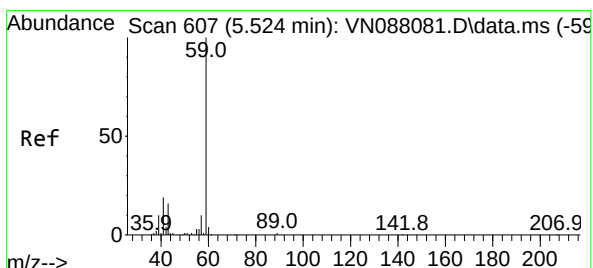
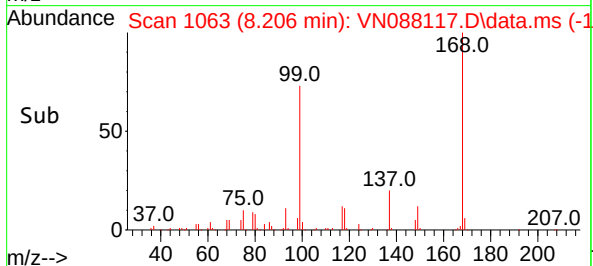
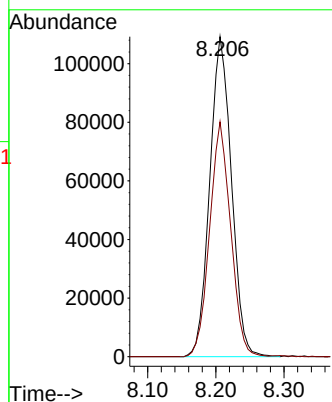
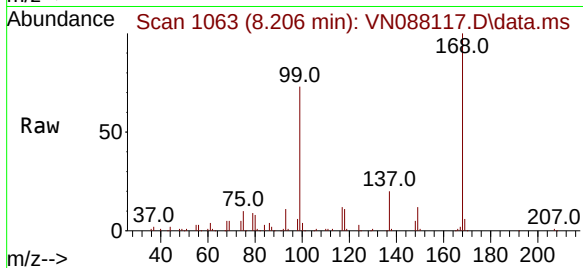




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

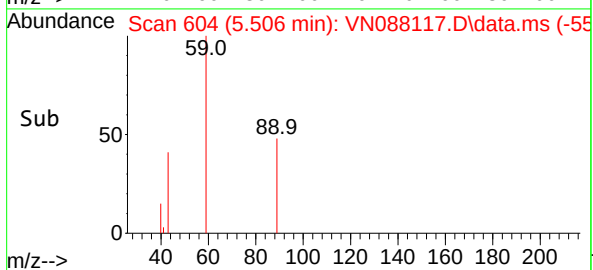
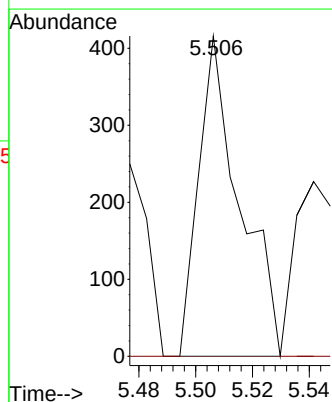
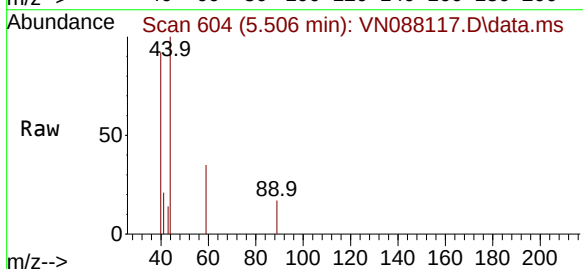
Instrument :
MSVOA_N
ClientSampleId :
JB-1

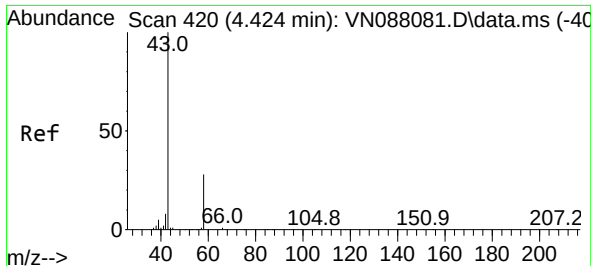
Tgt Ion:168 Resp: 242070
Ion Ratio Lower Upper
168 100
99 73.4 57.2 85.8



#11
Tert butyl alcohol
Concen: 0.580 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion: 59 Resp: 418
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

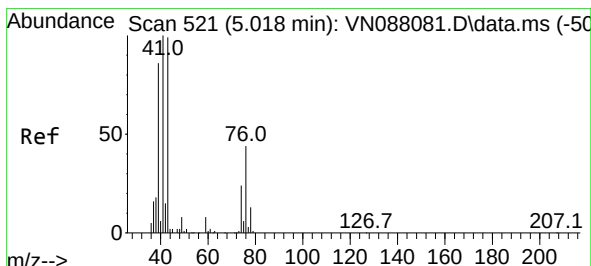
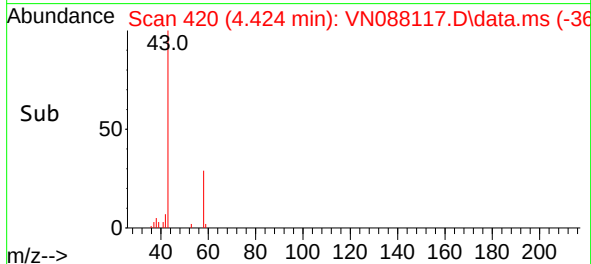
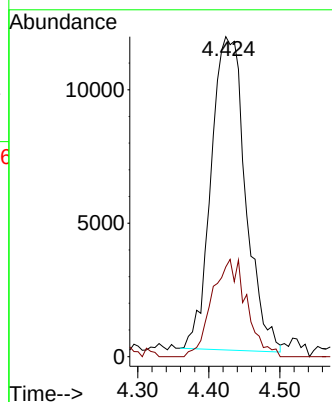
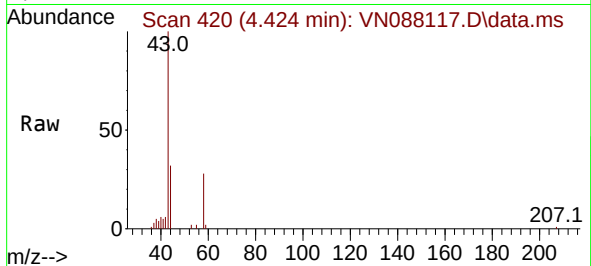




#16
Acetone
Concen: 18.821 ug/l
RT: 4.424 min Scan# 431
Delta R.T. -0.000 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

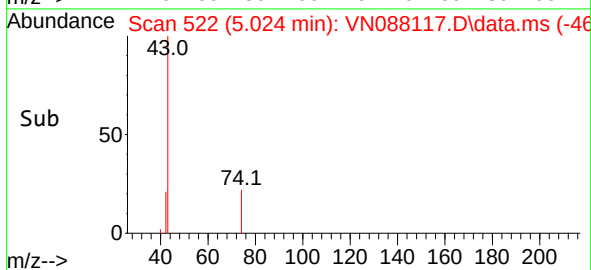
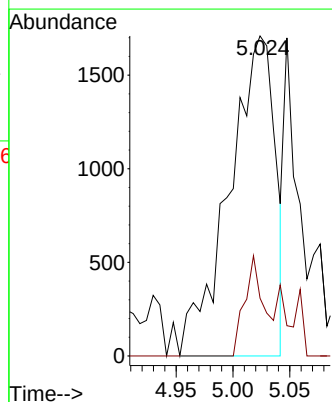
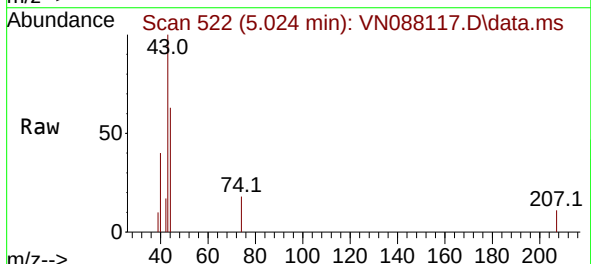
Instrument :
MSVOA_N
ClientSampleId :
JB-1

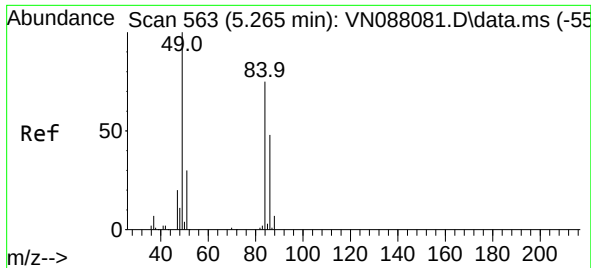
Tgt Ion: 43 Resp: 39580
Ion Ratio Lower Upper
43 100
58 28.8 22.6 33.8



#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion: 43 Resp: 4812
Ion Ratio Lower Upper
43 100
74 13.3 17.6 26.4#

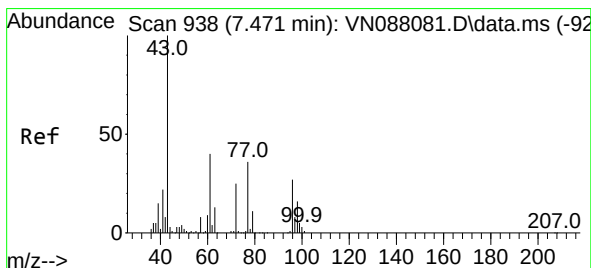
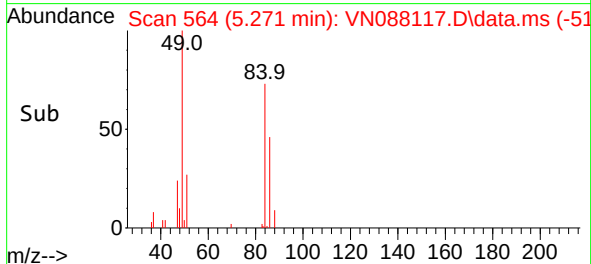
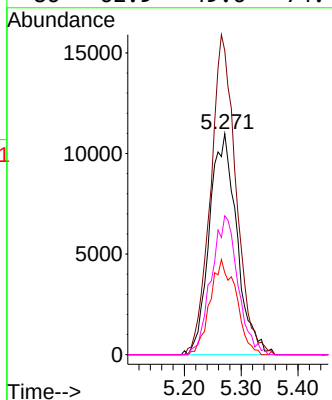
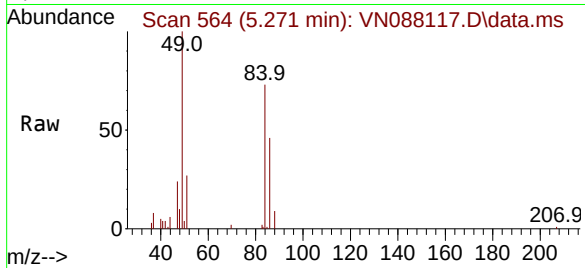




#20
Methylene Chloride
Concen: 11.860 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

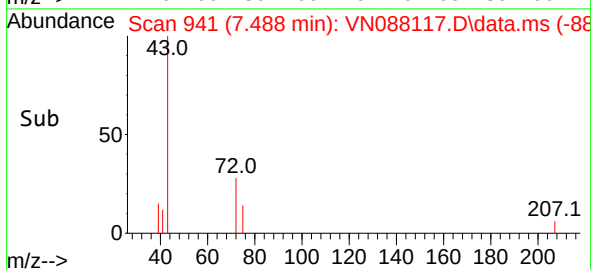
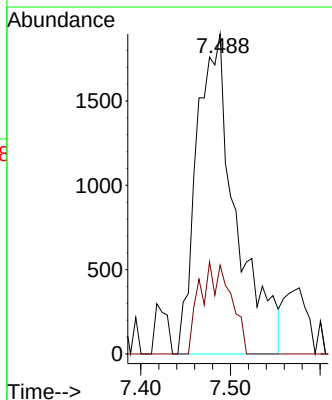
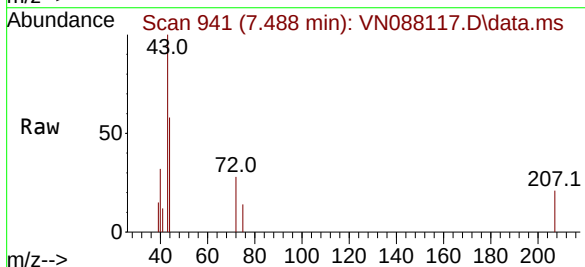
Instrument :
MSVOA_N
ClientSampleId :
JB-1

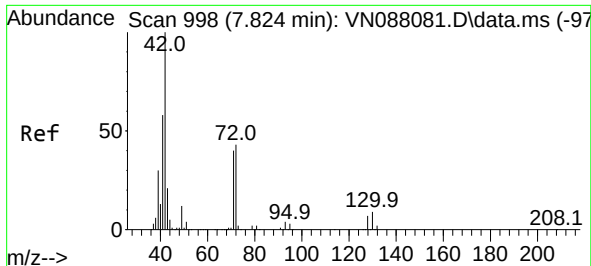
Tgt Ion:	84	Resp:	36860
Ion	Ratio	Lower	Upper
84	100		
49	137.6	103.4	155.2
51	37.1	33.8	50.8
86	62.9	49.6	74.4



#25
2-Butanone
Concen: 2.069 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion:	43	Resp:	5734
Ion	Ratio	Lower	Upper
43	100		
72	27.7	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.577 ug/l

RT: 7.830 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN088117.D

Acq: 27 Oct 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

JB-1

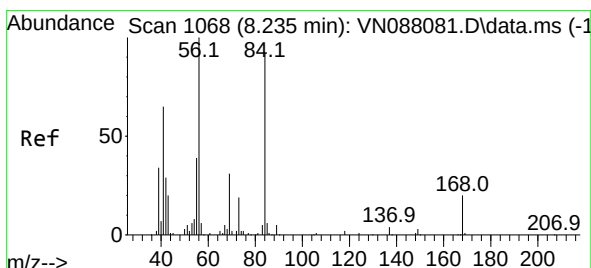
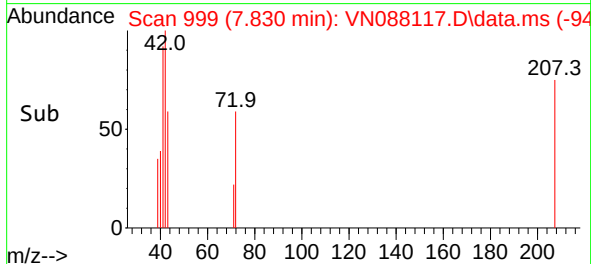
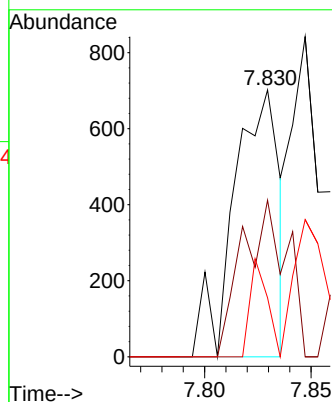
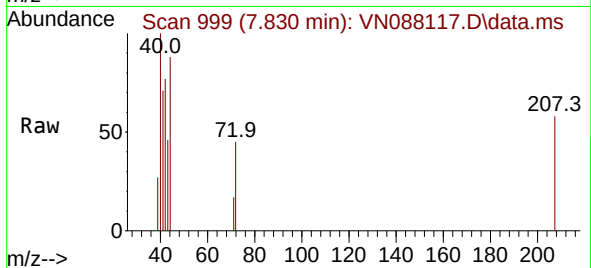
Tgt Ion: 42 Resp: 1043

Ion Ratio Lower Upper

42 100

72 57.2 33.7 50.5#

71 14.0 31.9 47.9#



#31

Cyclohexane

Concen: 1.282 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.030 min

Lab File: VN088117.D

Acq: 27 Oct 2025 16:17

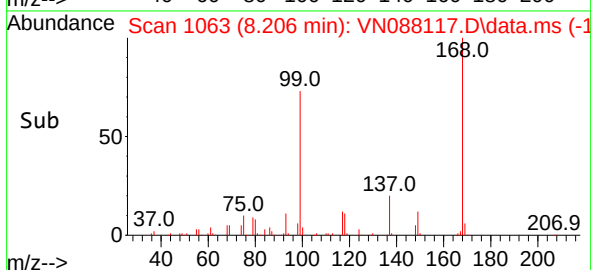
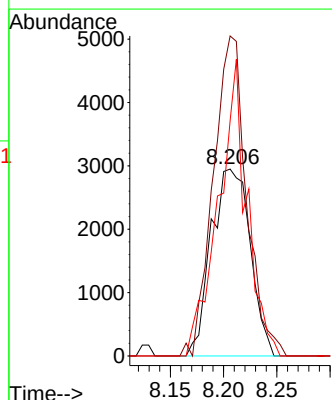
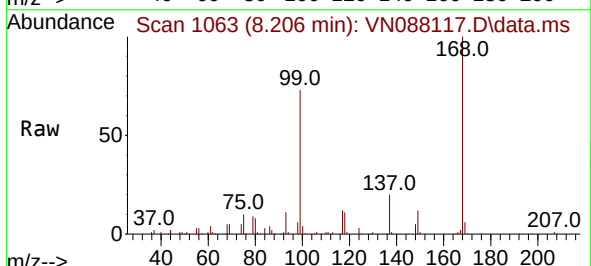
Tgt Ion: 56 Resp: 7512

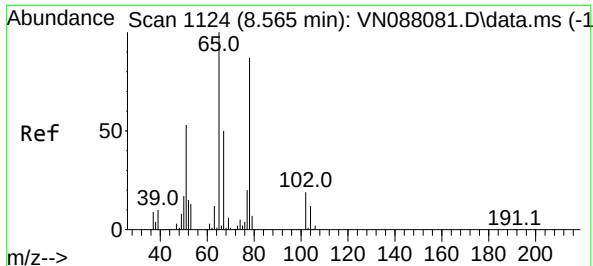
Ion Ratio Lower Upper

56 100

69 171.3 23.7 35.5#

84 125.9 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 56.013 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088117.D

Acq: 27 Oct 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

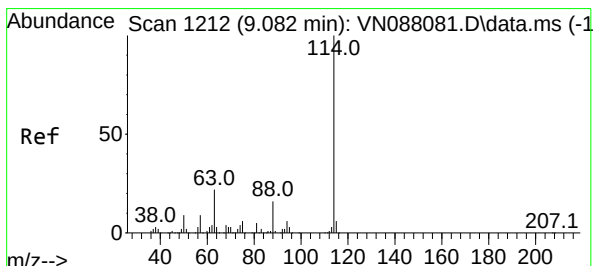
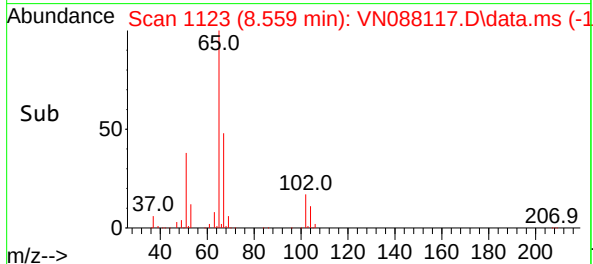
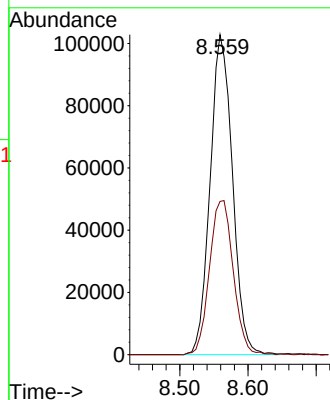
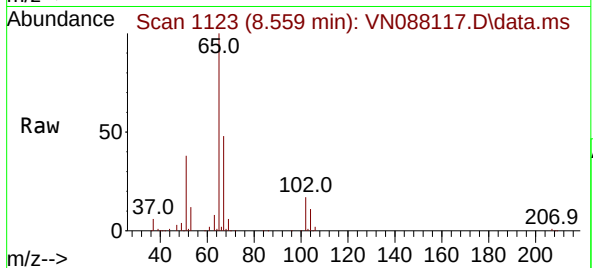
JB-1

Tgt Ion: 65 Resp: 234463

Ion Ratio Lower Upper

65 100

67 51.2 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088117.D

Acq: 27 Oct 2025 16:17

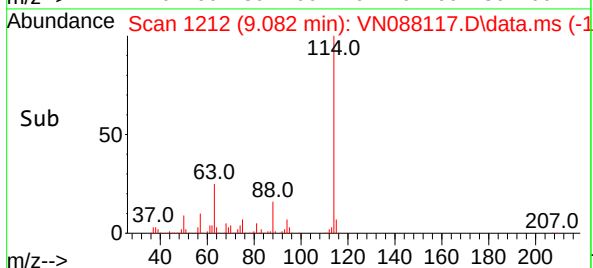
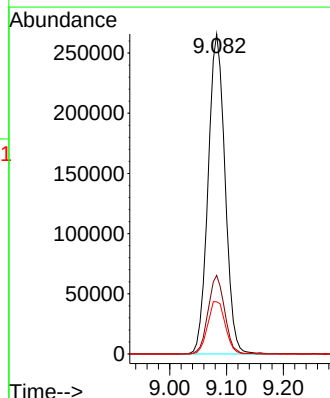
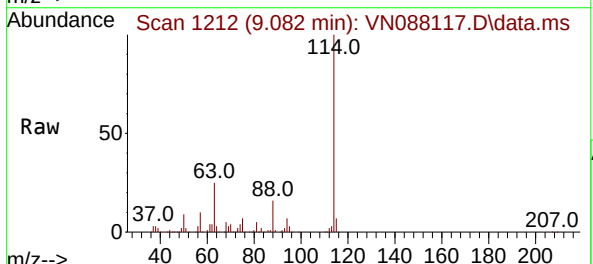
Tgt Ion: 114 Resp: 547486

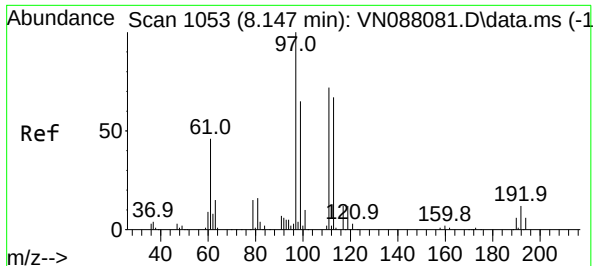
Ion Ratio Lower Upper

114 100

63 24.6 0.0 45.2

88 16.3 0.0 33.4



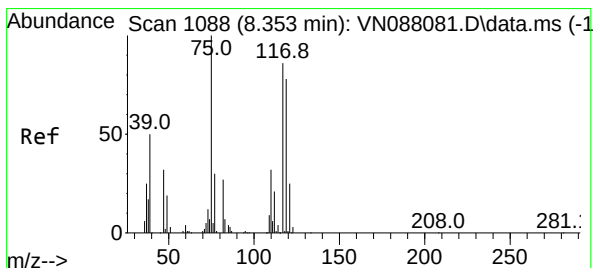
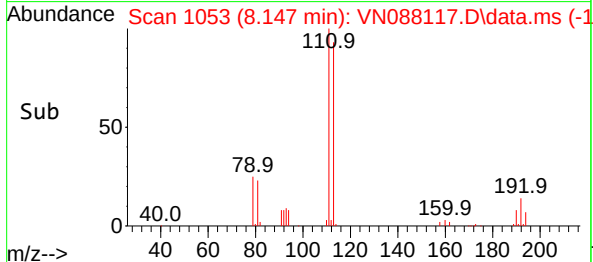
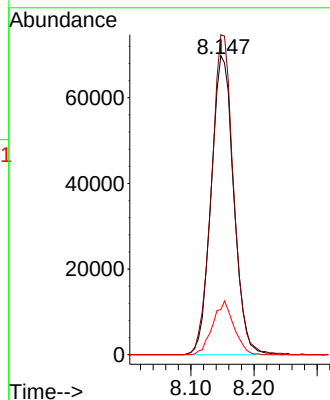
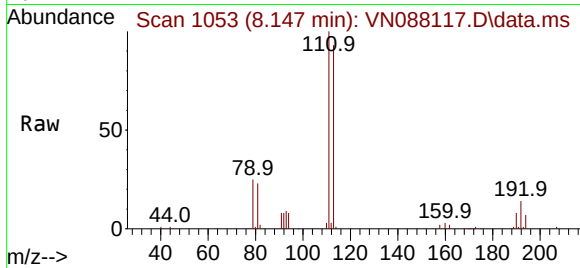


#35
 Dibromofluoromethane
 Concen: 47.054 ug/l
 RT: 8.147 min Scan# 1053
 Delta R.T. -0.006 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

Instrument :
 MSVOA_N
 ClientSampleId :
 JB-1

Tgt Ion:113 Resp: 173065

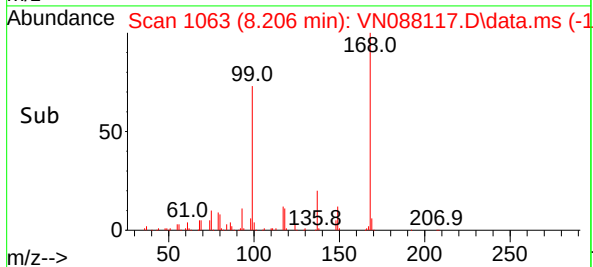
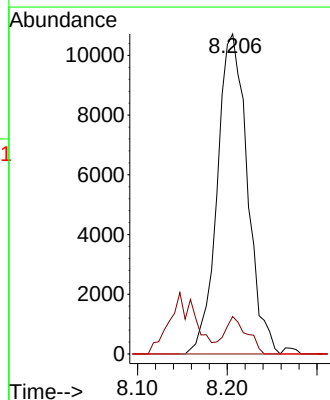
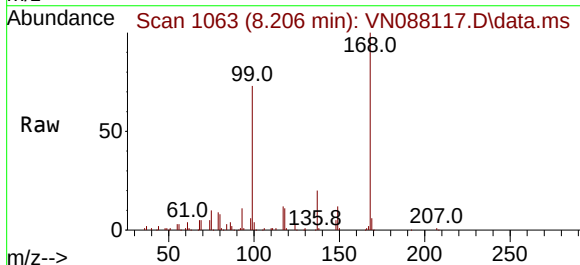
Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.8	124.2
192	16.9	12.8	19.2

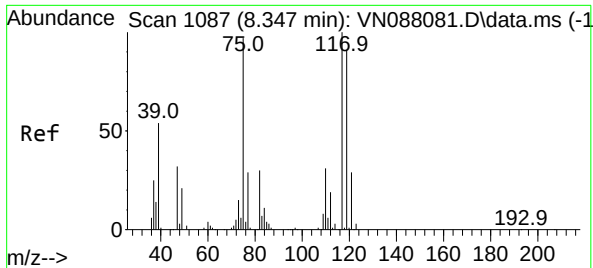


#36
 1,1-Dichloropropene
 Concen: 4.650 ug/l
 RT: 8.206 min Scan# 1063
 Delta R.T. -0.147 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

Tgt Ion: 75 Resp: 24971

Ion	Ratio	Lower	Upper
75	100		
110	9.0	15.9	47.6#
77	0.0	24.4	36.6#

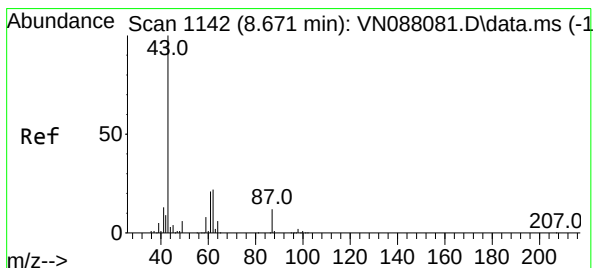
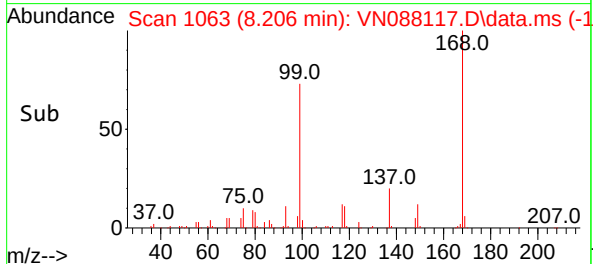
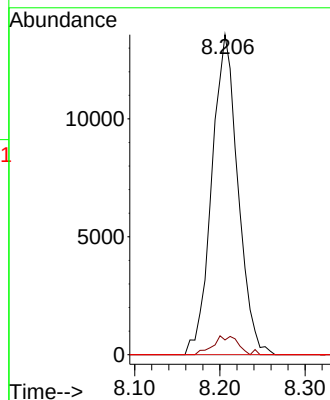
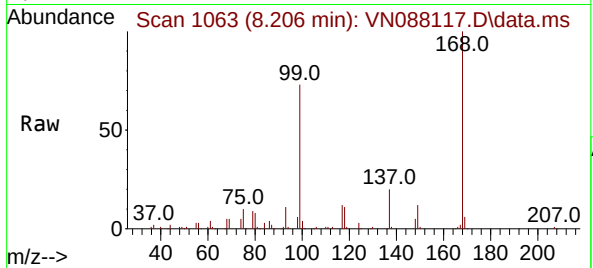




#38
Carbon Tetrachloride
Concen: 5.223 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

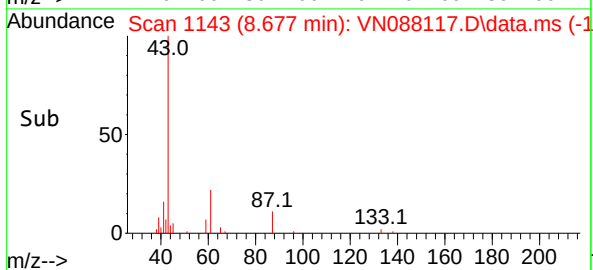
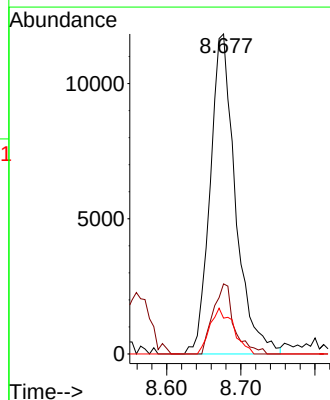
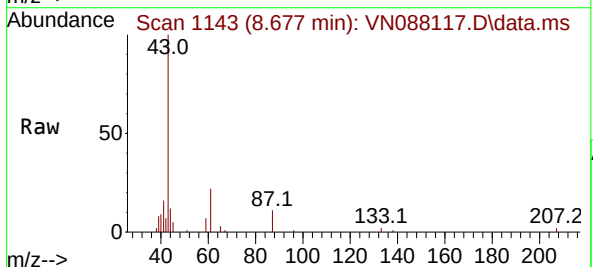
Instrument :
MSVOA_N
ClientSampleId :
JB-1

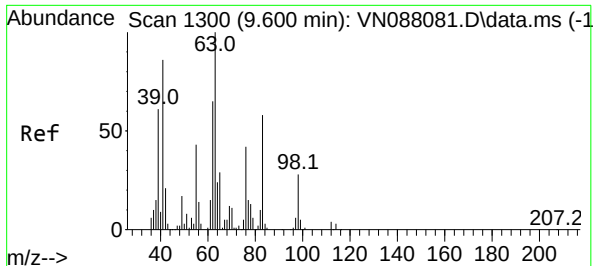
Tgt Ion:117 Resp: 28969
Ion Ratio Lower Upper
117 100
119 4.6 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.644 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion: 43 Resp: 28159
Ion Ratio Lower Upper
43 100
61 18.2 18.8 28.2#
87 13.2 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.322 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN088117.D

Acq: 27 Oct 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

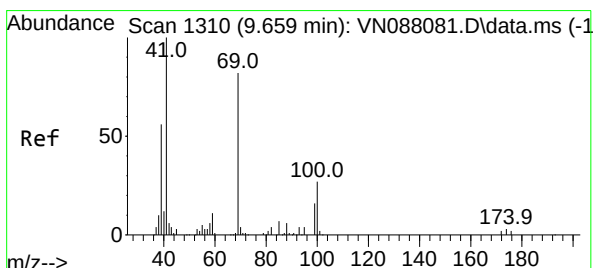
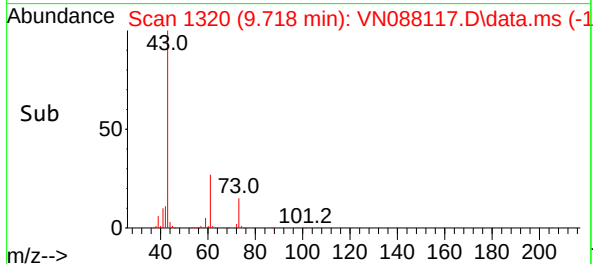
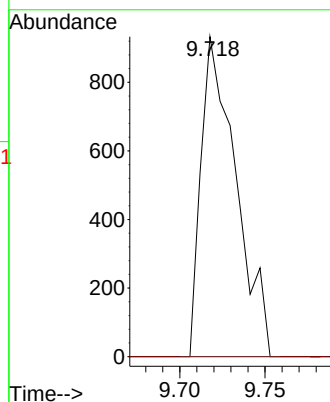
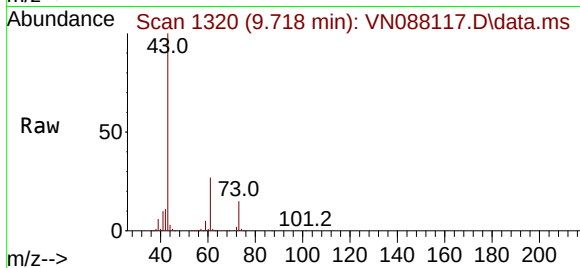
JB-1

Tgt Ion: 63 Resp: 1329

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 22.567 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN088117.D

Acq: 27 Oct 2025 16:17

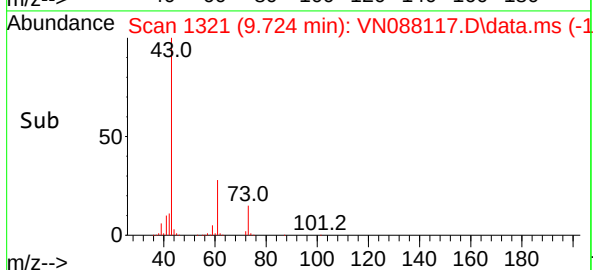
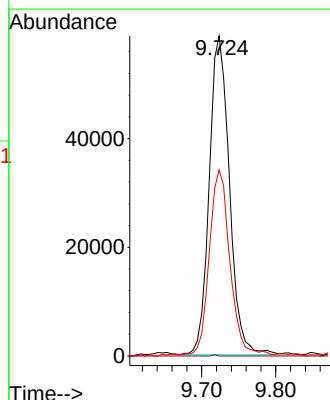
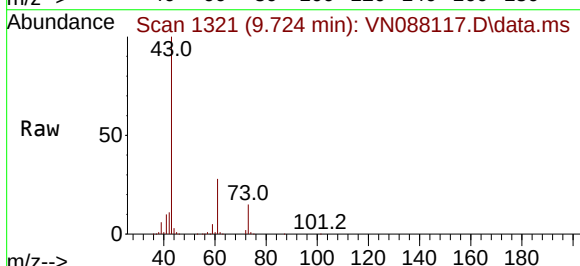
Tgt Ion: 41 Resp: 110955

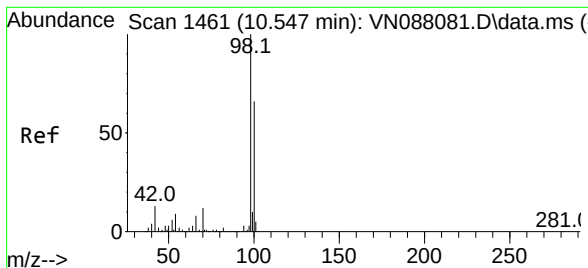
Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 58.8 52.9 79.3

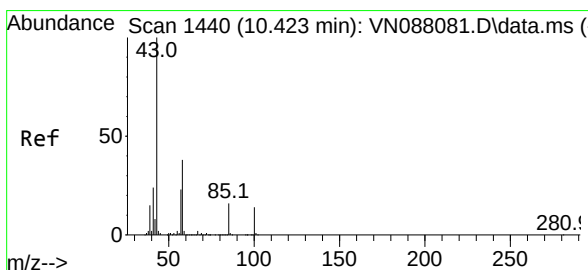
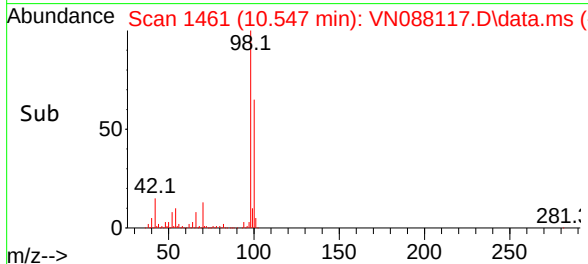
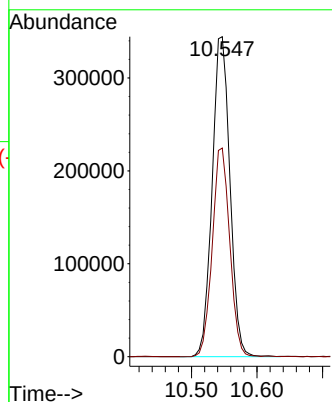
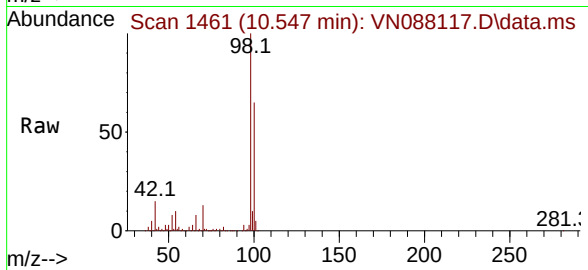




#50
Toluene-d8
Concen: 45.749 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

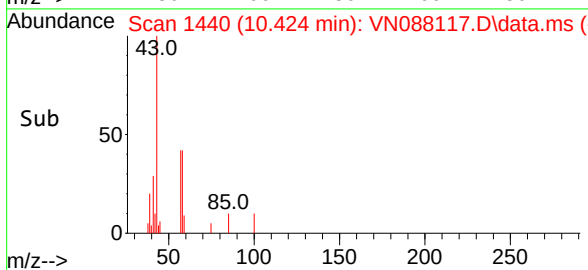
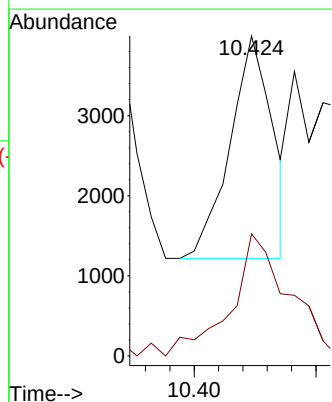
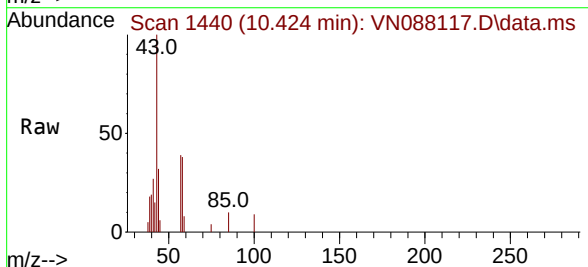
Instrument :
MSVOA_N
ClientSampleId :
JB-1

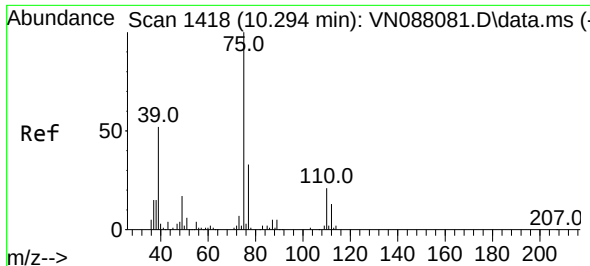
Tgt Ion: 98 Resp: 648356
Ion Ratio Lower Upper
98 100
100 64.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.533 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion: 43 Resp: 3356
Ion Ratio Lower Upper
43 100
58 75.4 29.6 44.4#

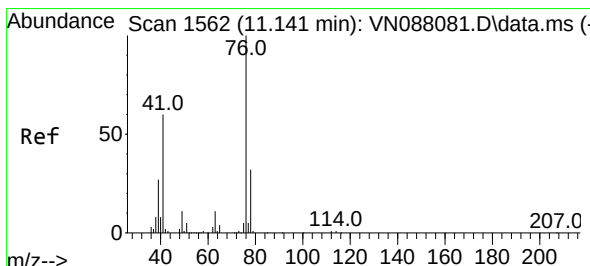
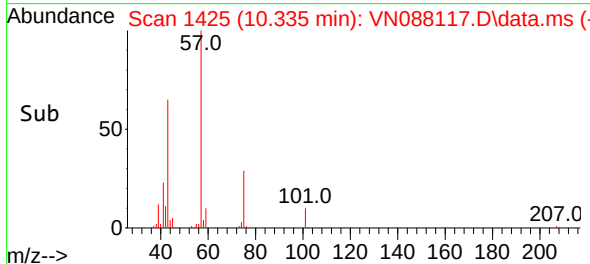
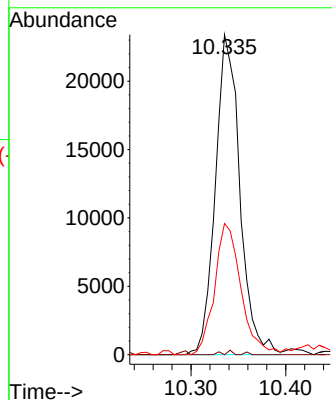
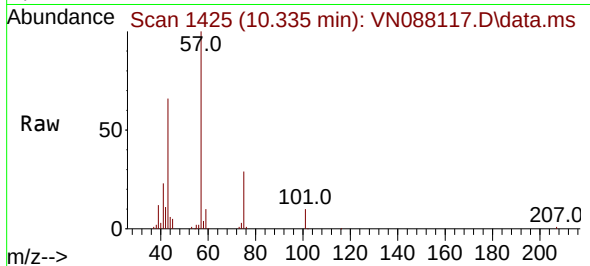




#54
 cis-1,3-Dichloropropene
 Concen: 6.313 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

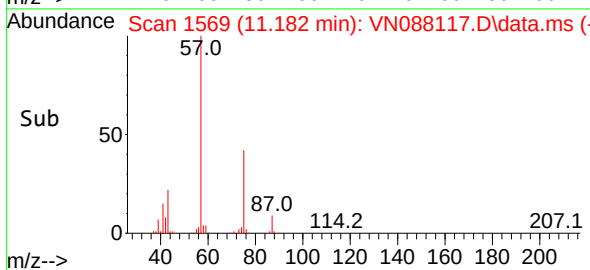
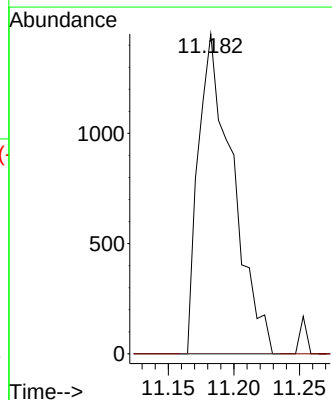
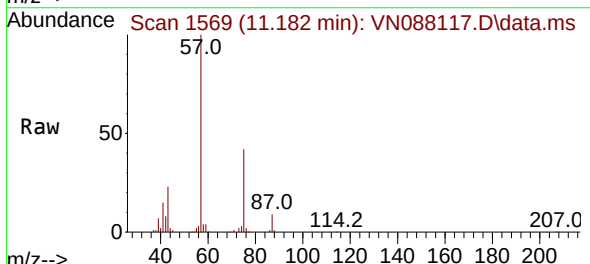
Instrument :
 MSVOA_N
 ClientSampleId :
 JB-1

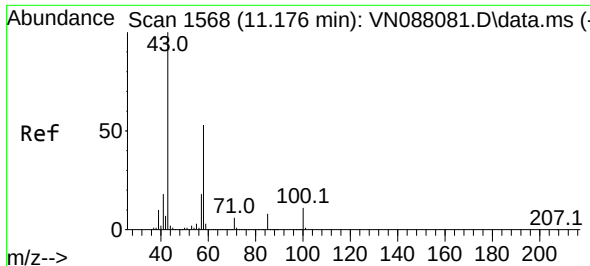
Tgt Ion: 75 Resp: 42038
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 41.0 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.392 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

Tgt Ion: 76 Resp: 2633
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

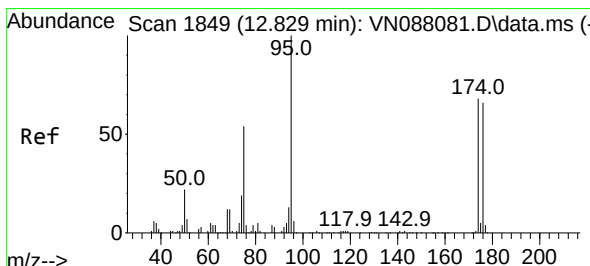
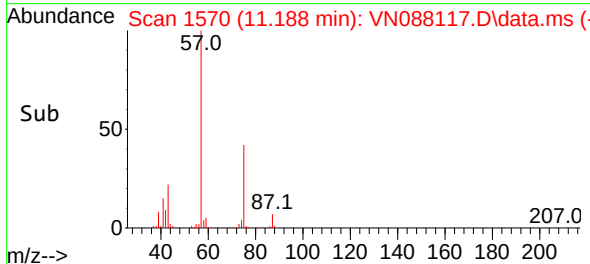
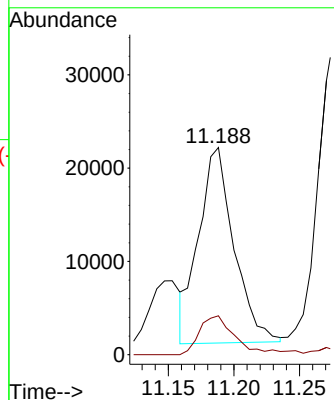
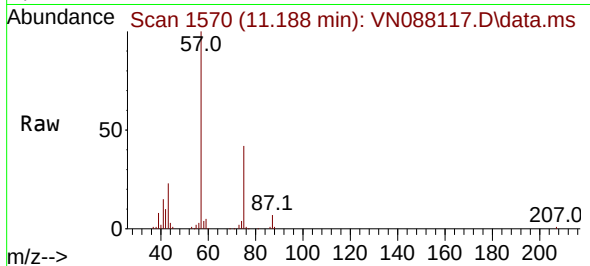




#59
2-Hexanone
Concen: 9.392 ug/l
RT: 11.188 min Scan# 1117
Delta R.T. 0.012 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

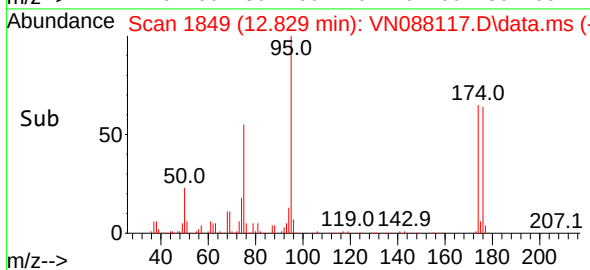
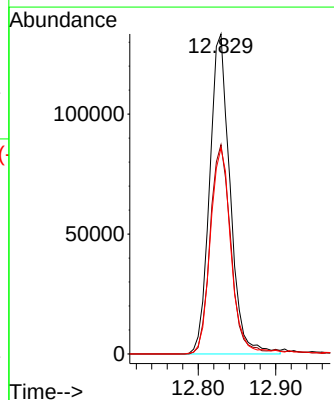
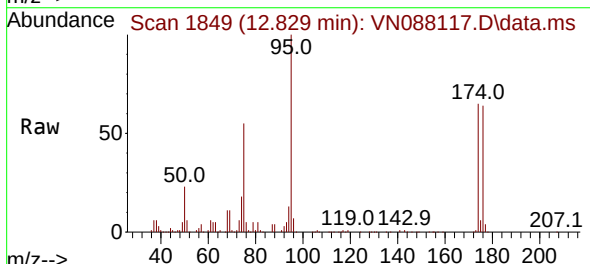
Instrument :
MSVOA_N
ClientSampleId :
JB-1

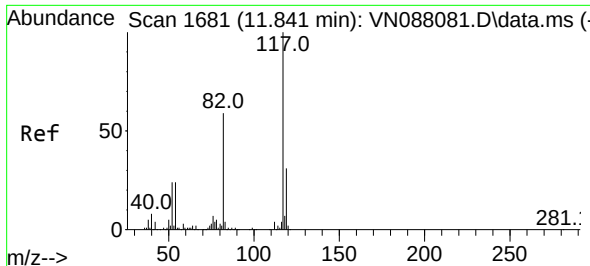
Tgt Ion: 43 Resp: 39252
Ion Ratio Lower Upper
43 100
58 20.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.757 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion: 95 Resp: 244033
Ion Ratio Lower Upper
95 100
174 65.9 0.0 138.4
176 65.4 0.0 132.6

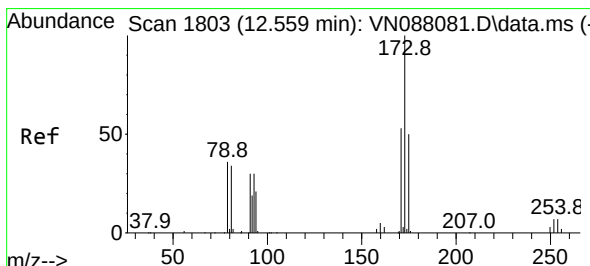
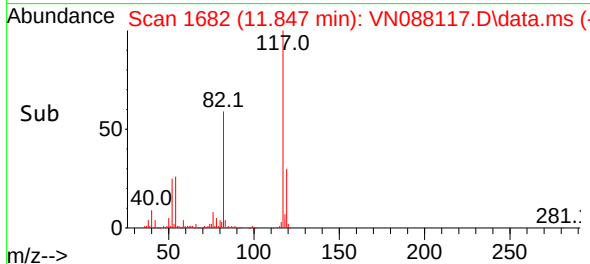
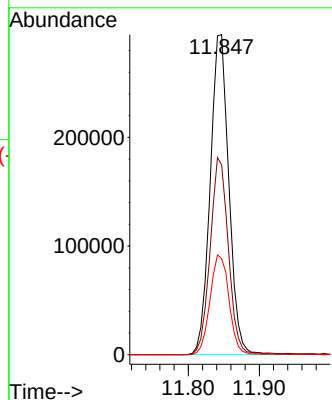
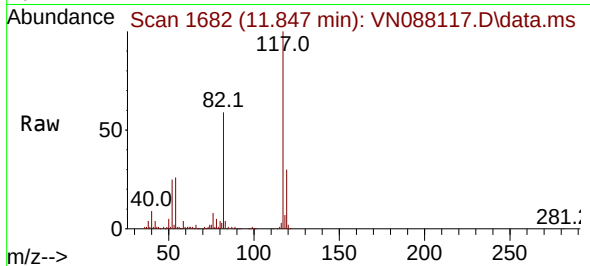




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

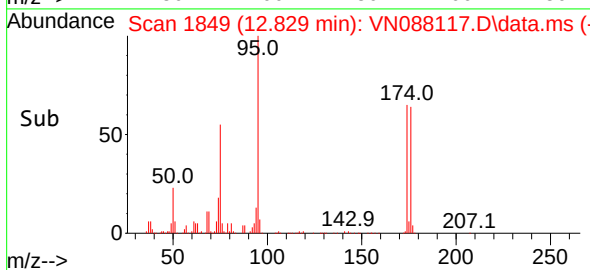
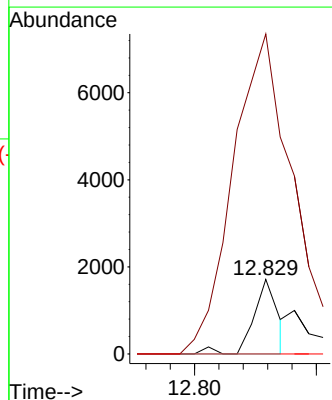
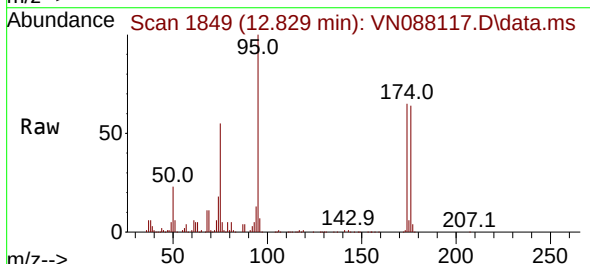
Instrument :
MSVOA_N
ClientSampleId :
JB-1

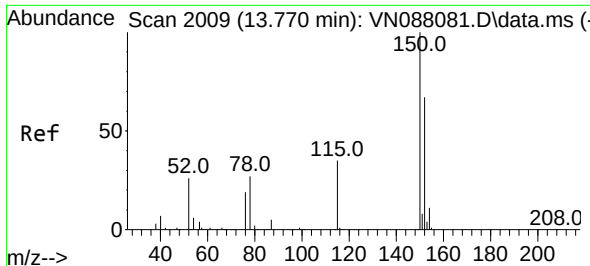
Tgt Ion:117 Resp: 538103
Ion Ratio Lower Upper
117 100
82 59.3 47.4 71.2
119 30.0 24.3 36.5



#71
Bromoform
Concen: 0.396 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN088117.D
Acq: 27 Oct 2025 16:17

Tgt Ion:173 Resp: 1183
Ion Ratio Lower Upper
173 100
175 824.3 24.9 74.6#
254 0.0 0.1 0.1#

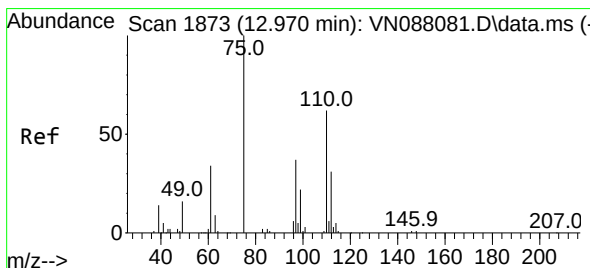
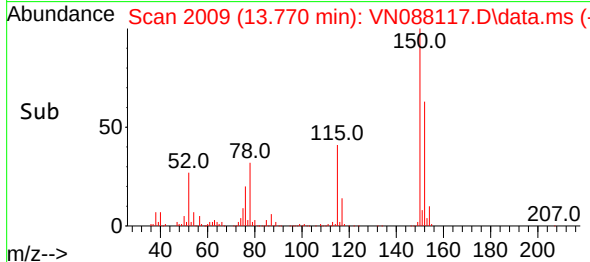
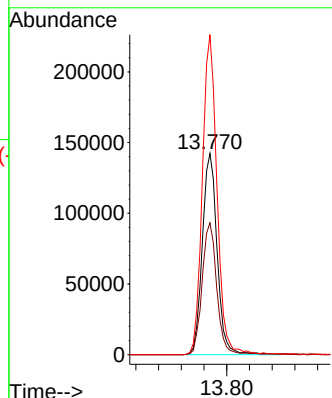
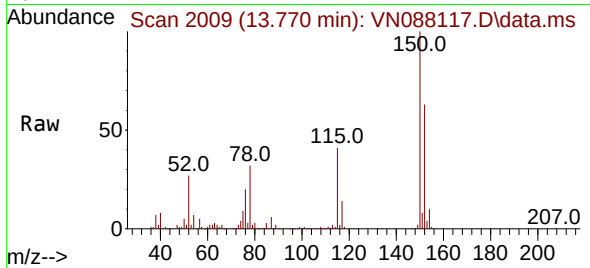




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

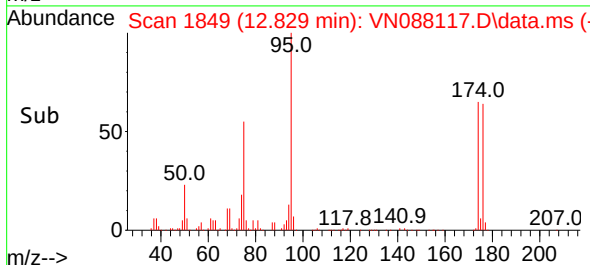
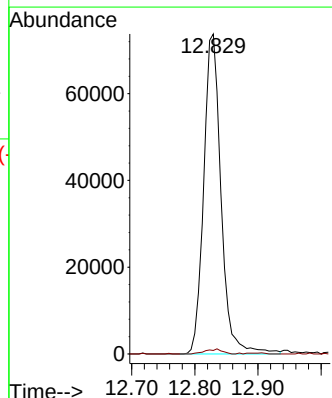
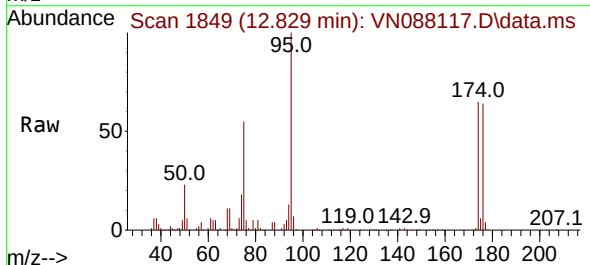
Instrument :
 MSVOA_N
 ClientSampleId :
 JB-1

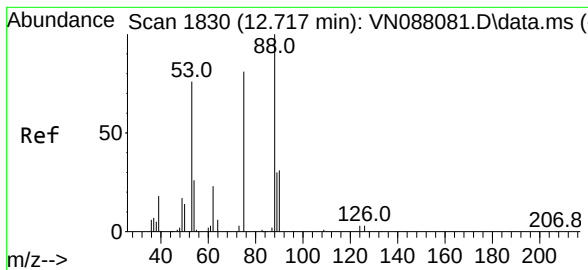
Tgt Ion:152 Resp: 257845
 Ion Ratio Lower Upper
 152 100
 115 64.9 32.3 96.8
 150 156.2 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.899 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

Tgt Ion: 75 Resp: 140889
 Ion Ratio Lower Upper
 75 100
 77 1.5 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.668 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088117.D
 Acq: 27 Oct 2025 16:17

Instrument :
 MSVOA_N
 ClientSampleId :
 JB-1

Tgt Ion: 75 Resp: 140889
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.1 35.6 53.4#

