

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111822\
 Data File : VN075314.D
 Acq On : 18 Nov 2022 15:54
 Operator : JC\MD
 Sample : PB149142ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

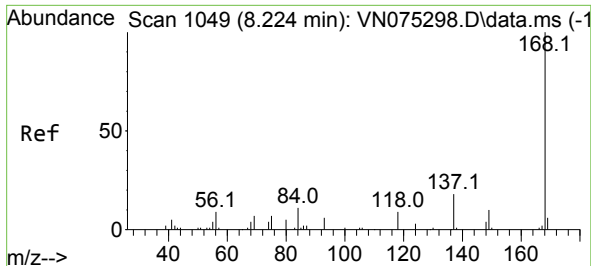
Quant Time: Nov 19 05:07:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	148578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	262096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	104133	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	94993	47.451	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.900%
35) Dibromofluoromethane	8.171	113	81675	53.083	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.160%
50) Toluene-d8	10.571	98	313567	52.528	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.060%
62) 4-Bromofluorobenzene	12.847	95	103597	49.403	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	98.800%
Target Compounds						
					Qvalue	
5) Bromomethane	2.930	94	79	Below Cal	#	79
8) Diethyl Ether	3.977	74	2054	1.882	ug/l	92
11) Tert butyl alcohol	5.506	59	1125	2.410	ug/l #	72
16) Acetone	4.436	43	49543	58.447	ug/l	97
18) Methyl Acetate	5.053	43	2465	0.890	ug/l #	69
20) Methylene Chloride	5.289	84	15362	8.128	ug/l	91
25) 2-Butanone	7.506	43	1153	0.865	ug/l #	43
29) Tetrahydrofuran	7.571	42	1099	1.276	ug/l #	26
31) Cyclohexane	8.230	56	3263	1.096	ug/l #	57
36) 1,1-Dichloropropene	8.230	75	11855	4.977	ug/l #	44
37) Ethyl Acetate	7.571	43	21108	8.080	ug/l	98
38) Carbon Tetrachloride	8.230	117	15418	5.884	ug/l #	16
42) 1,2-Dichloroethane	8.682	62	606	0.228	ug/l #	75
43) Isopropyl Acetate	8.694	43	96187	23.737	ug/l #	91
45) 1,2-Dichloropropane	9.741	63	1250	0.720	ug/l #	42
48) Methyl methacrylate	9.665	41	2699	1.452	ug/l #	36
49) 1,4-Dioxane	9.747	88	57	1.171	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	3481	1.331	ug/l	93
53) t-1,3-Dichloropropene	10.729	75	648	0.234	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	39111	13.341	ug/l #	66
56) Ethyl methacrylate	10.994	69	944	0.320	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5323	1.653	ug/l #	42
59) 2-Hexanone	11.171	43	82841	41.742	ug/l #	21
71) Bromoform	12.853	173	893	0.616	ug/l #	1
74) N-amyl acetate	12.482	43	885	0.286	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	53403	24.153	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53403	62.001	ug/l #	10
95) Naphthalene	15.641	128	1755	0.296	ug/l #	74

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

Quant Time: Nov 19 05:07:57 2022
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QLast Update : Thu Oct 27 09:48:49 2022
Response via : Initial Calibration

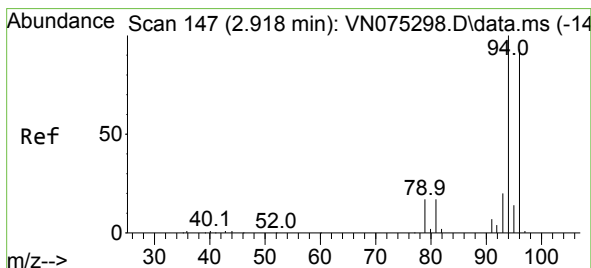
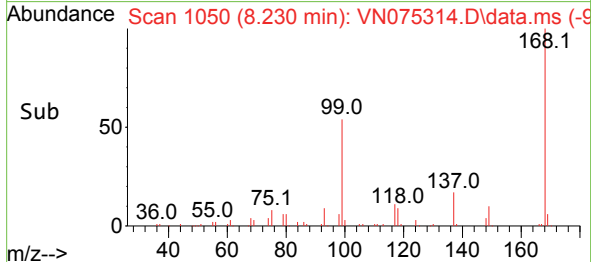
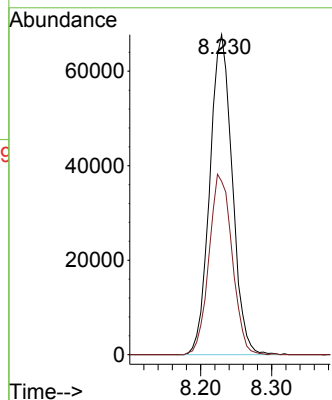
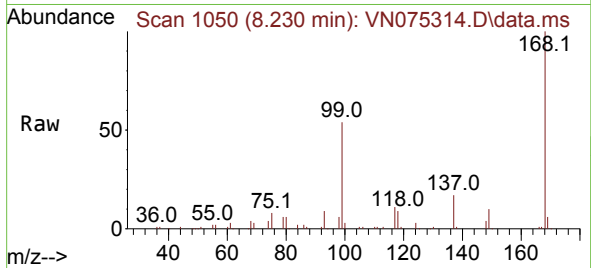




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1049
Delta R.T. -0.000 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

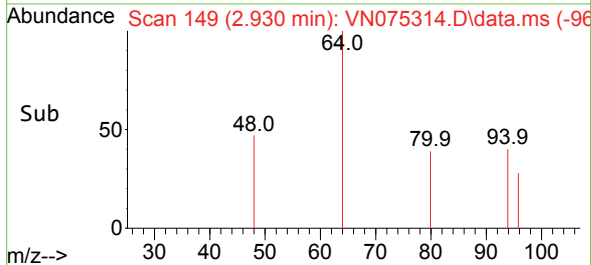
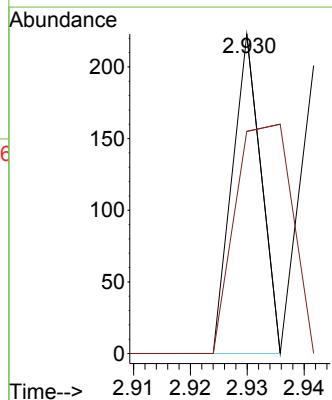
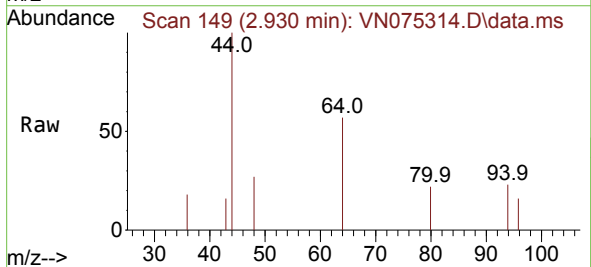
Instrument :
MSVOA_N
ClientSampleId :

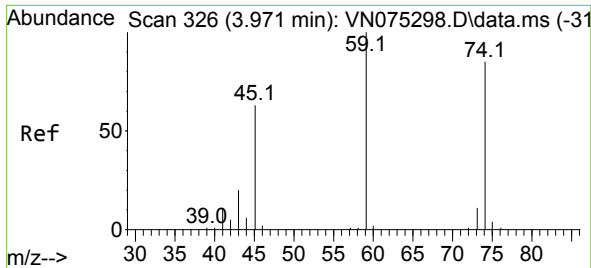
Tgt Ion:168 Resp: 148578
Ion Ratio Lower Upper
168 100
99 54.1 51.6 77.4



#5
Bromomethane
Concen: Below Cal
RT: 2.930 min Scan# 149
Delta R.T. 0.012 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 94 Resp: 79
Ion Ratio Lower Upper
94 100
96 69.5 71.8 107.6#

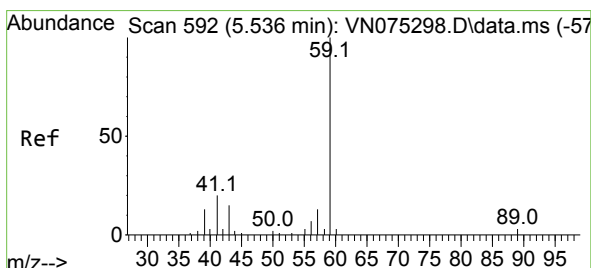
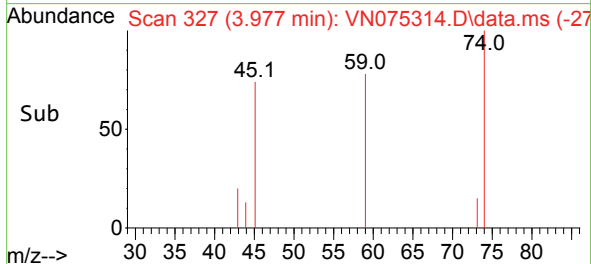
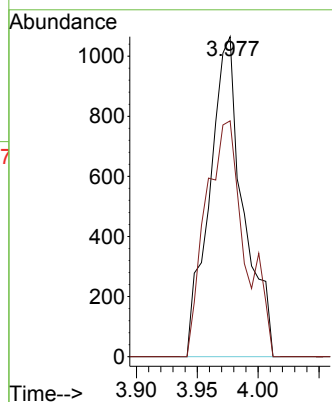
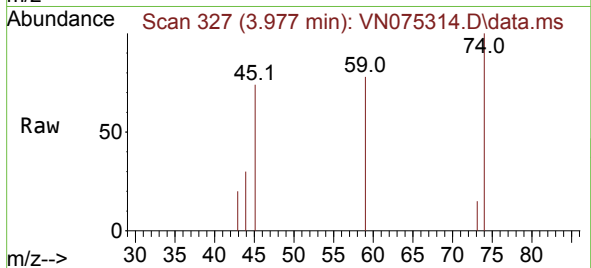




#8
Diethyl Ether
Concen: 1.882 ug/l
RT: 3.977 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

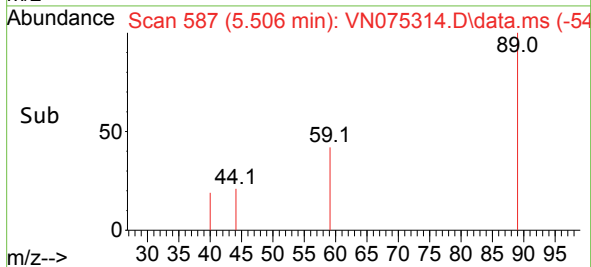
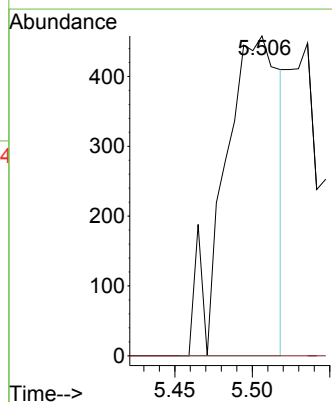
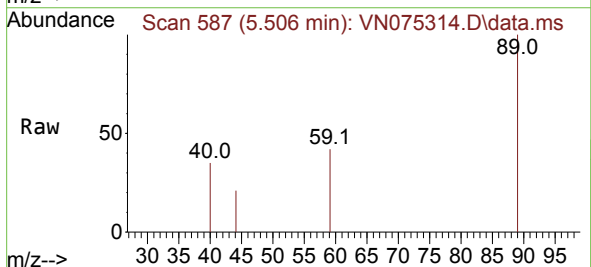
Instrument :
MSVOA_N
ClientSampleId :

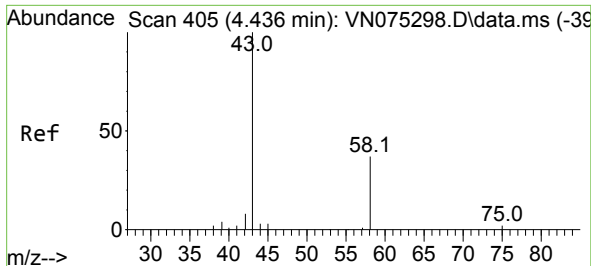
Tgt Ion: 74 Resp: 2054
Ion Ratio Lower Upper
74 100
45 85.4 39.3 117.9



#11
Tert butyl alcohol
Concen: 2.410 ug/l
RT: 5.506 min Scan# 587
Delta R.T. -0.036 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 59 Resp: 1125
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

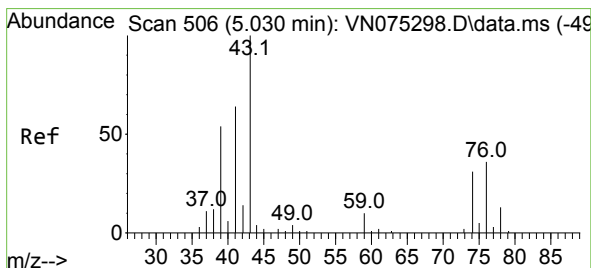
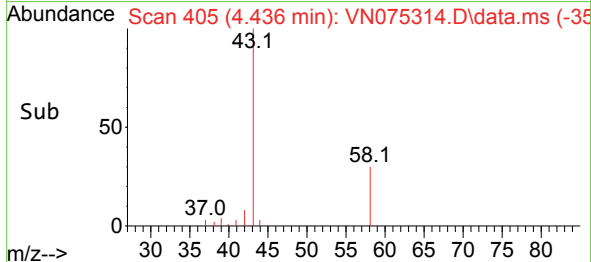
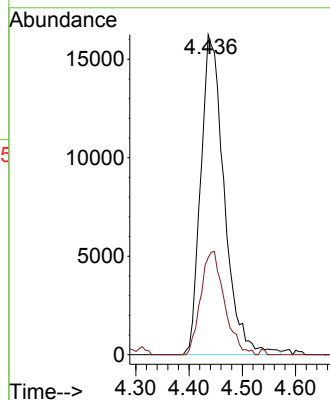
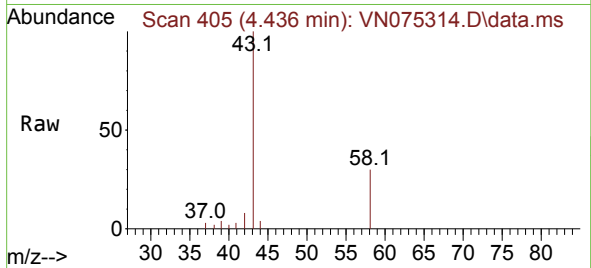




#16
Acetone
Concen: 58.447 ug/l
RT: 4.436 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

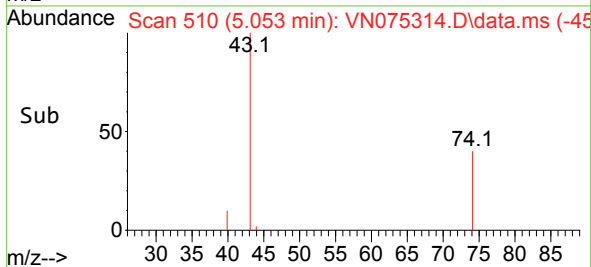
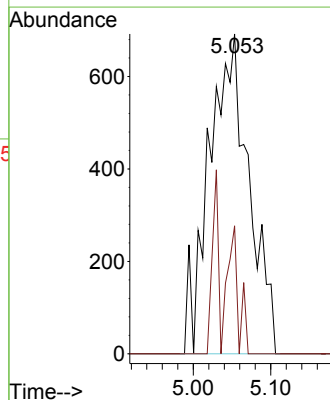
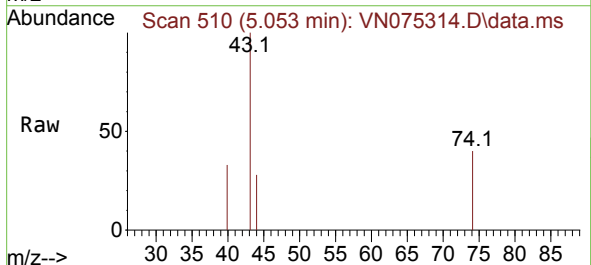
Instrument :
MSVOA_N
ClientSampleId :

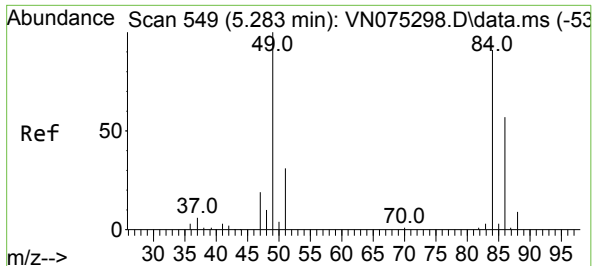
Tgt Ion: 43 Resp: 49543
Ion Ratio Lower Upper
43 100
58 30.4 25.5 38.3



#18
Methyl Acetate
Concen: 0.890 ug/l
RT: 5.053 min Scan# 510
Delta R.T. 0.011 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 43 Resp: 2465
Ion Ratio Lower Upper
43 100
74 11.3 22.0 33.0#





#20

Methylene Chloride

Concen: 8.128 ug/l

RT: 5.289 min Scan# 51

Delta R.T. 0.006 min

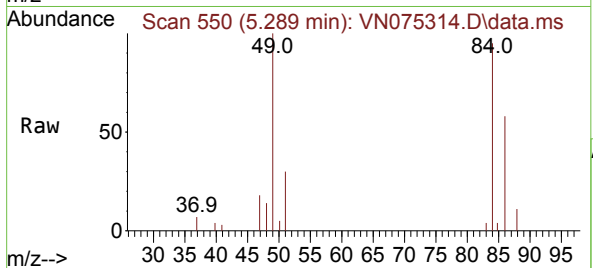
Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 15362

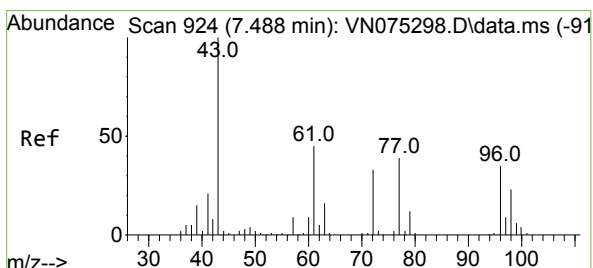
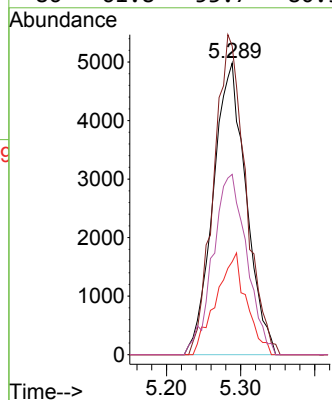
Ion Ratio Lower Upper

84 100

49 105.8 94.9 142.3

51 31.9 26.8 40.2

86 61.8 53.7 80.5



#25

2-Butanone

Concen: 0.865 ug/l

RT: 7.506 min Scan# 927

Delta R.T. 0.012 min

Lab File: VN075314.D

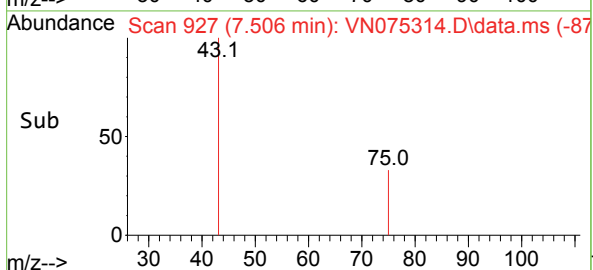
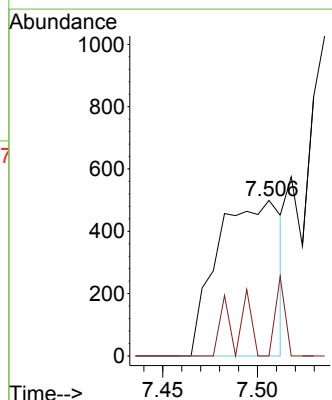
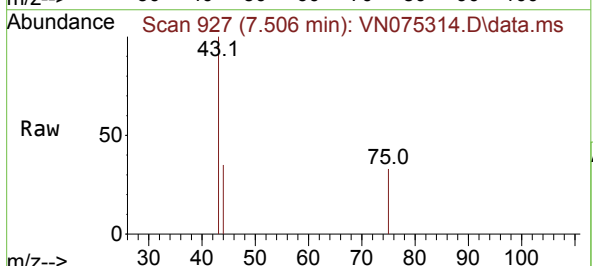
Acq: 18 Nov 2022 15:54

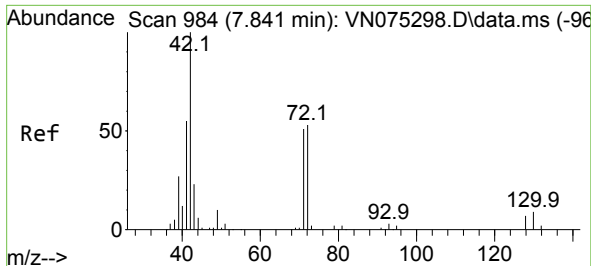
Tgt Ion: 43 Resp: 1153

Ion Ratio Lower Upper

43 100

72 0.0 25.5 38.3#





#29

Tetrahydrofuran

Concen: 1.276 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.276 min

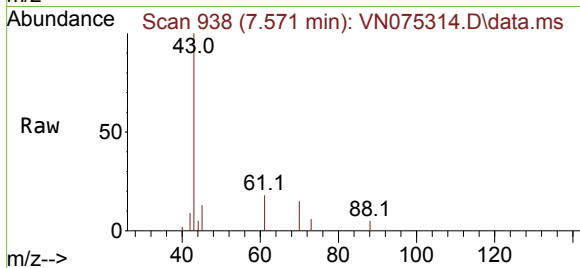
Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

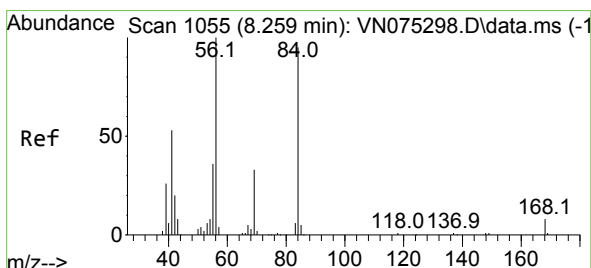
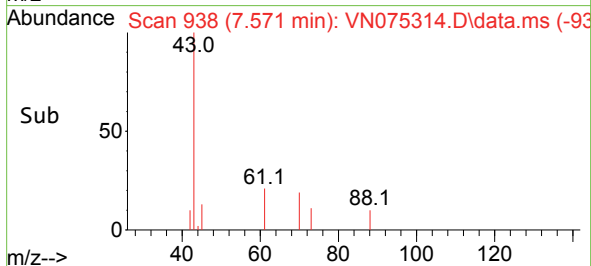
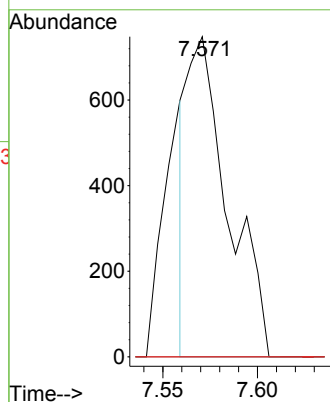
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1099
Ion Ratio	100	Lower	Upper
42	100		
72	0.0	43.0	64.6#
71	0.0	39.9	59.9#



#31

Cyclohexane

Concen: 1.096 ug/l

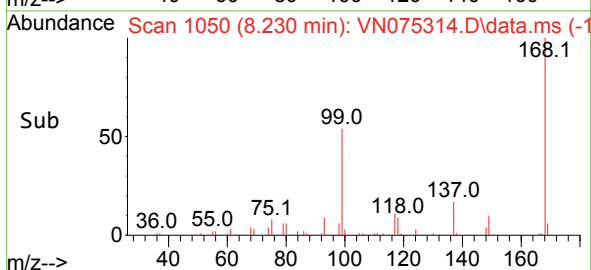
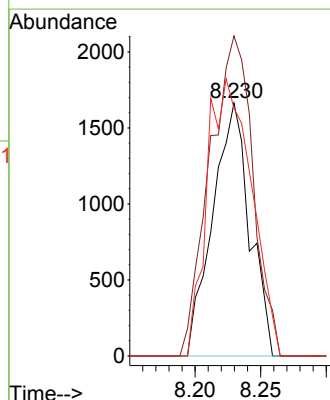
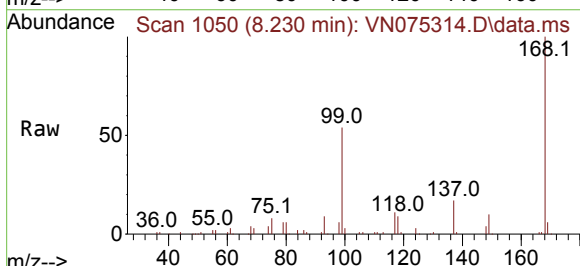
RT: 8.230 min Scan# 1050

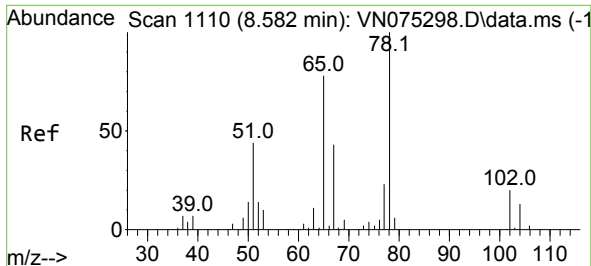
Delta R.T. -0.029 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Tgt Ion:	56	Resp:	3263
Ion Ratio	100	Lower	Upper
56	100		
69	126.6	25.2	37.8#
84	98.0	77.8	116.8





#33

1,2-Dichloroethane-d4

Concen: 47.451 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.006 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

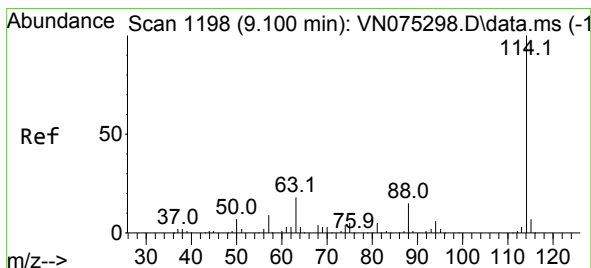
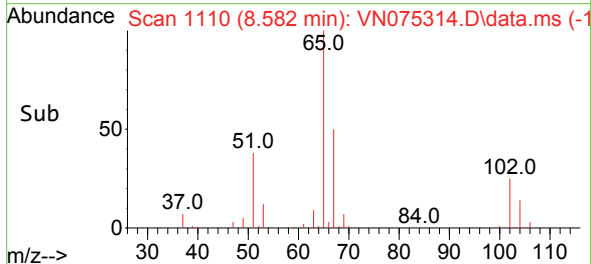
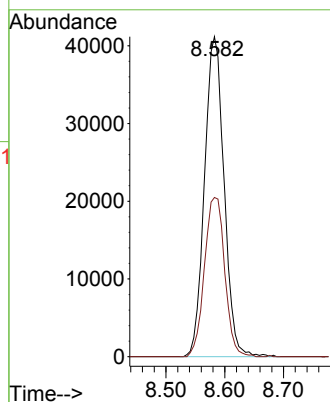
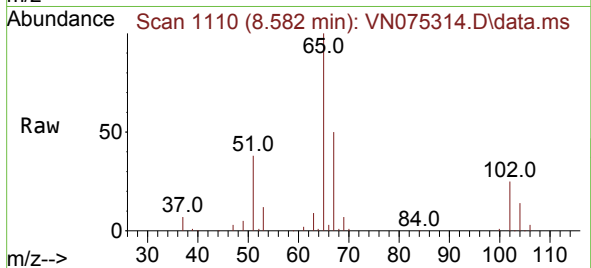
ClientSampleId :

Tgt Ion: 65 Resp: 94993

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

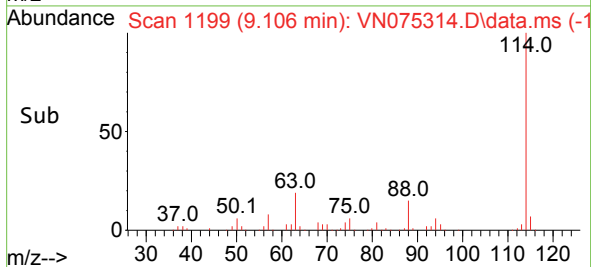
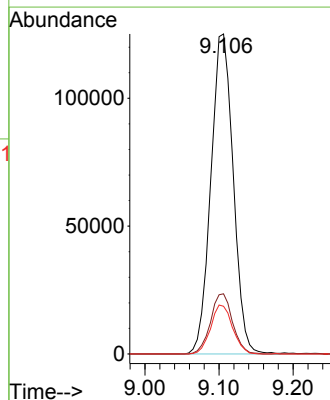
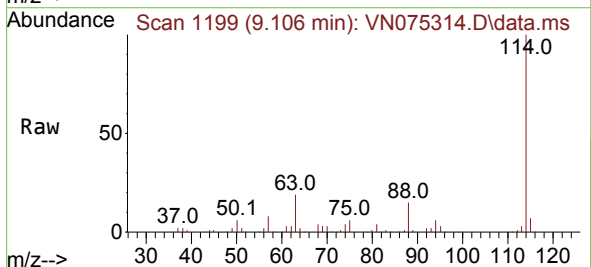
Tgt Ion: 114 Resp: 262096

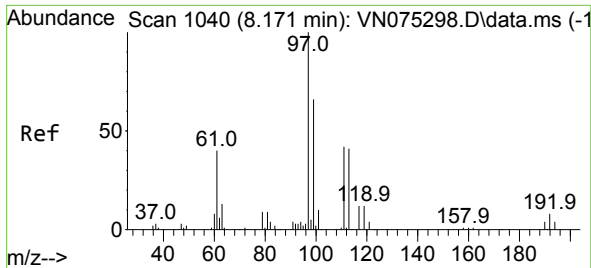
Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

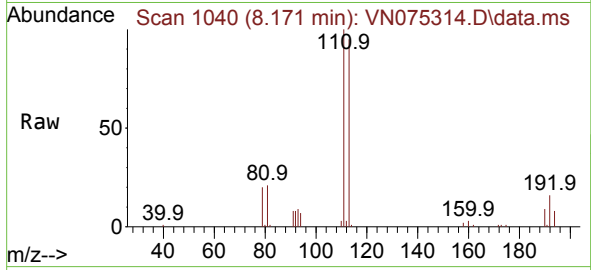
88 14.9 0.0 29.0



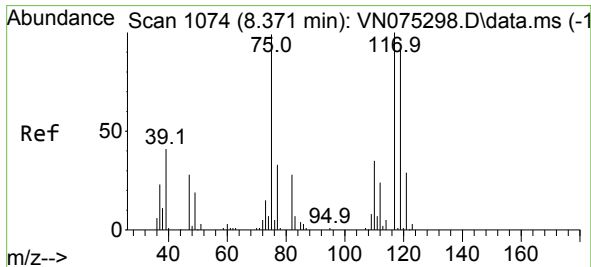
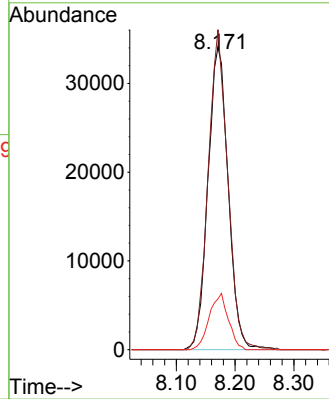
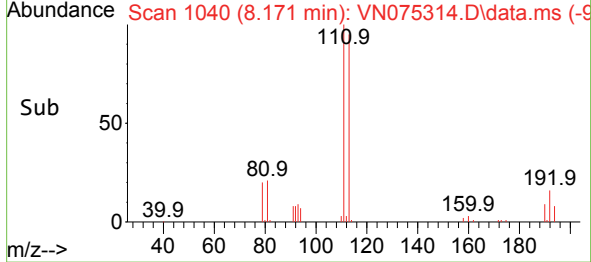


#35
Dibromofluoromethane
Concen: 53.083 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Instrument :
MSVOA_N
ClientSampleId :

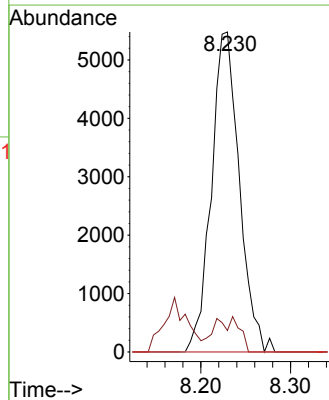
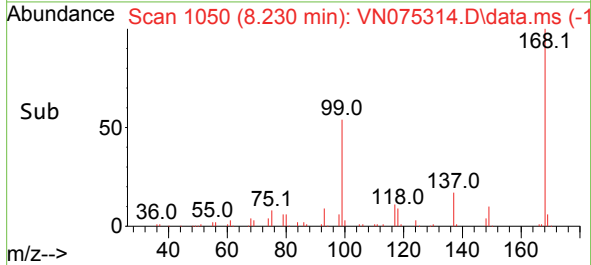
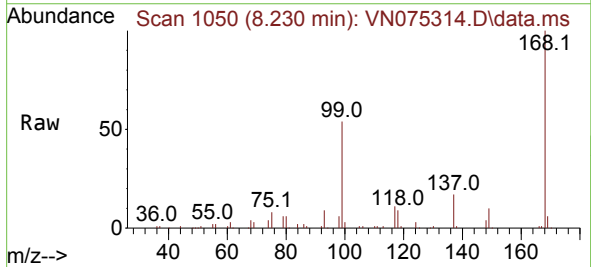


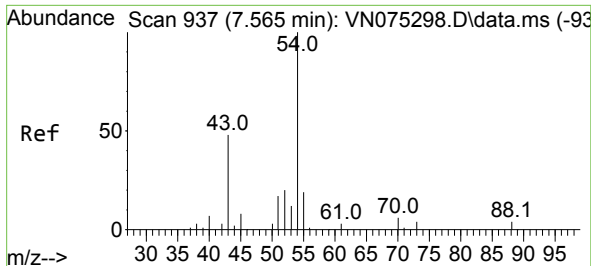
Tgt Ion:113 Resp: 81675
Ion Ratio Lower Upper
113 100
111 101.9 80.5 120.7
192 17.5 13.2 19.8



#36
1,1-Dichloropropene
Concen: 4.977 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 75 Resp: 11855
Ion Ratio Lower Upper
75 100
110 3.0 17.8 53.3#
77 0.0 24.6 37.0#

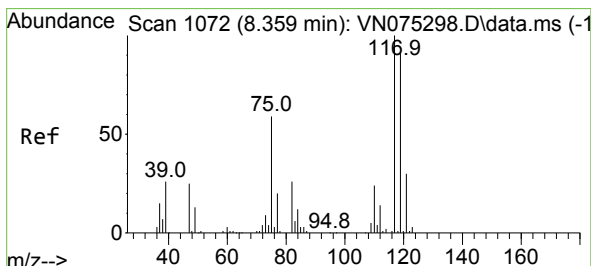
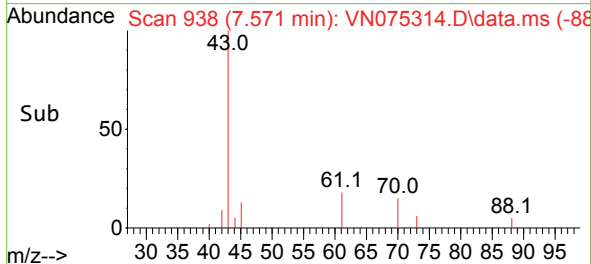
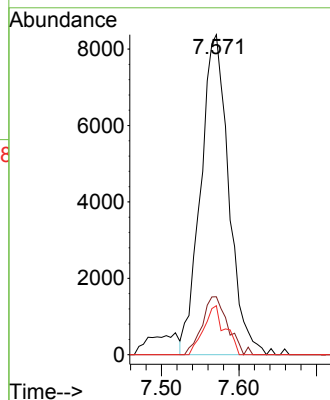
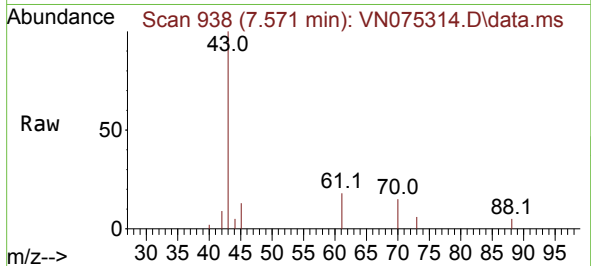




#37
Ethyl Acetate
Concen: 8.080 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

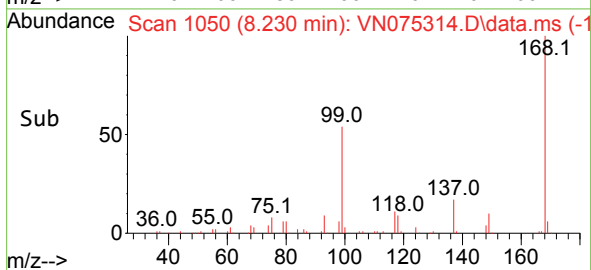
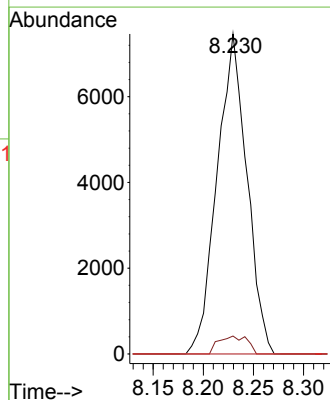
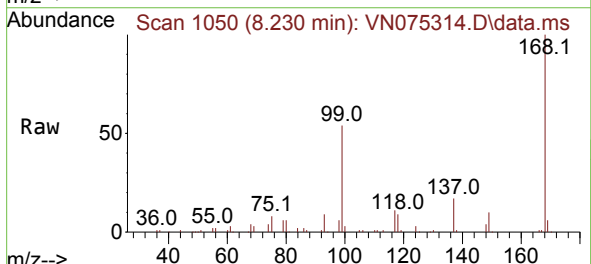
Instrument :
MSVOA_N
ClientSampleId :

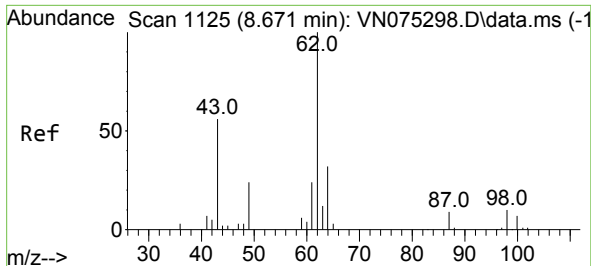
Tgt Ion:	43	Resp:	21108
Ion	Ratio	Lower	Upper
43	100		
61	16.5	12.2	18.4
70	11.6	9.4	14.2



#38
Carbon Tetrachloride
Concen: 5.884 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion:	117	Resp:	15418
Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.7	115.1#
121	0.0	23.9	35.9#





#42

1,2-Dichloroethane

Concen: 0.228 ug/l

RT: 8.682 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

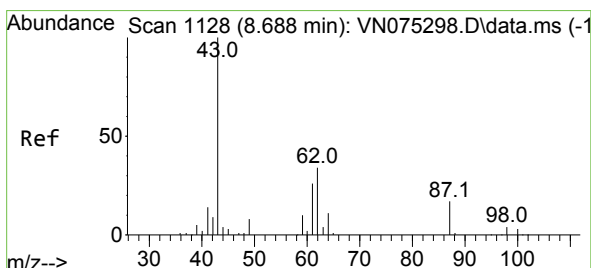
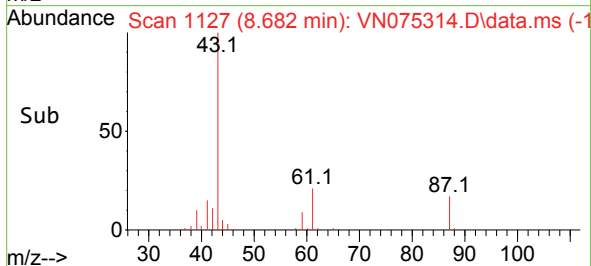
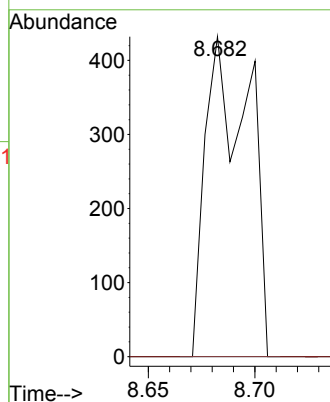
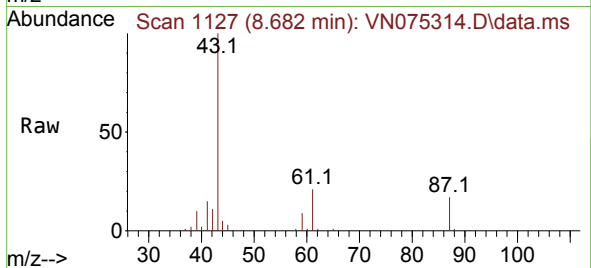
ClientSampleId :

Tgt Ion: 62 Resp: 606

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 23.737 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

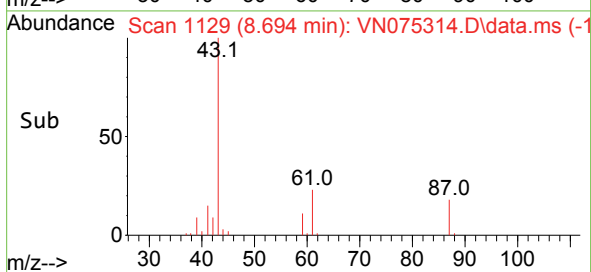
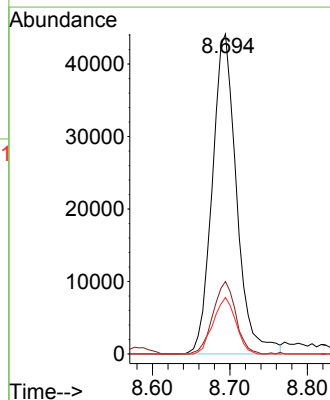
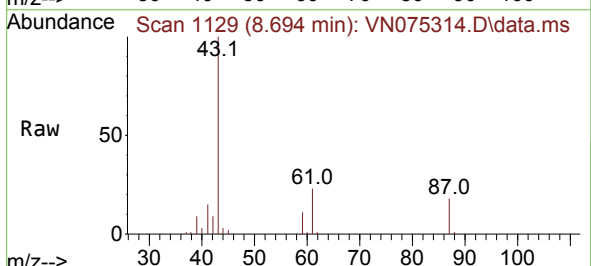
Tgt Ion: 43 Resp: 96187

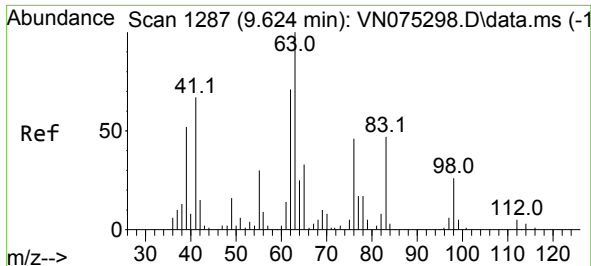
Ion Ratio Lower Upper

43 100

61 21.1 22.4 33.6#

87 16.3 12.5 18.7





#45

1,2-Dichloropropane

Concen: 0.720 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

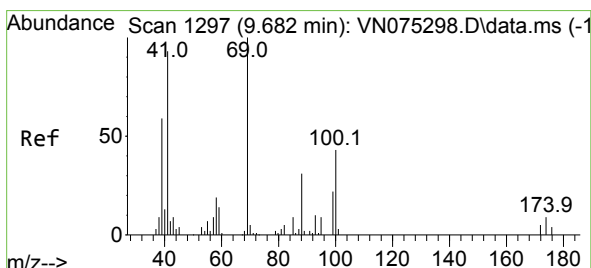
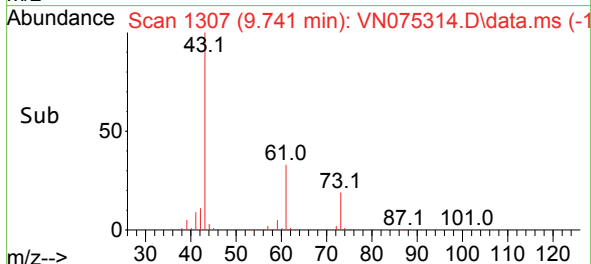
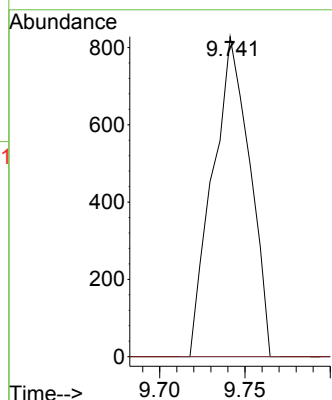
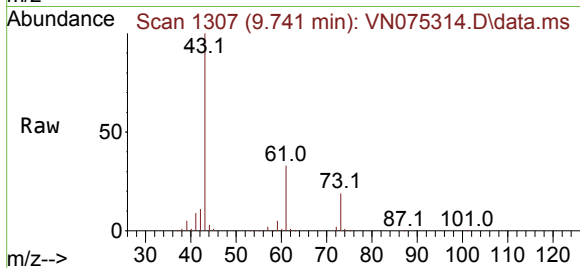
ClientSampleId :

Tgt Ion: 63 Resp: 1250

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.452 ug/l

RT: 9.665 min Scan# 1294

Delta R.T. -0.017 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

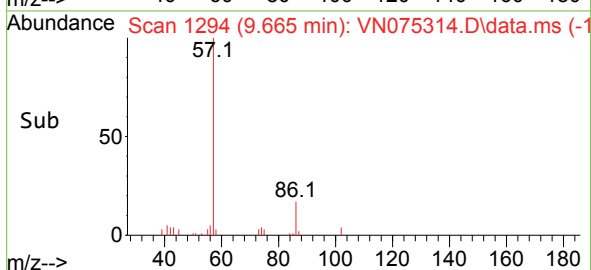
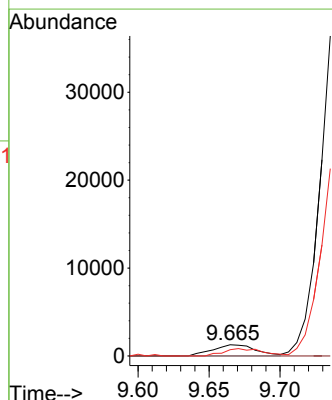
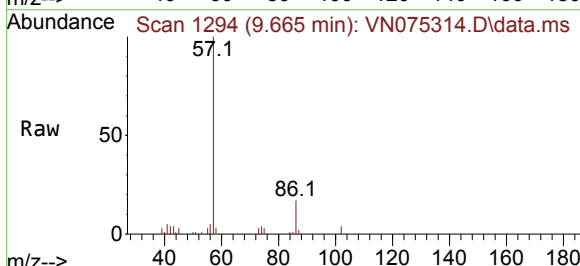
Tgt Ion: 41 Resp: 2699

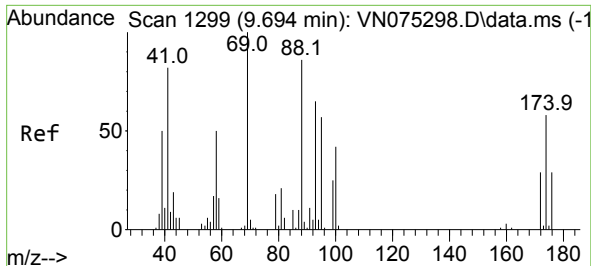
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 60.5 56.2 84.2





#49

1,4-Dioxane

Concen: 1.171 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

ClientSampleId :

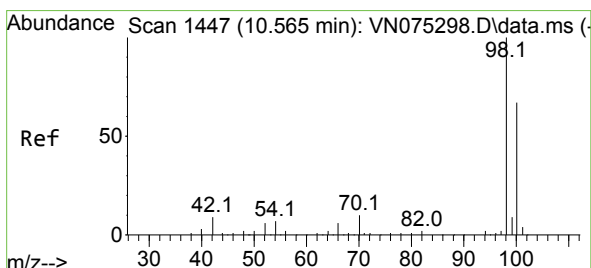
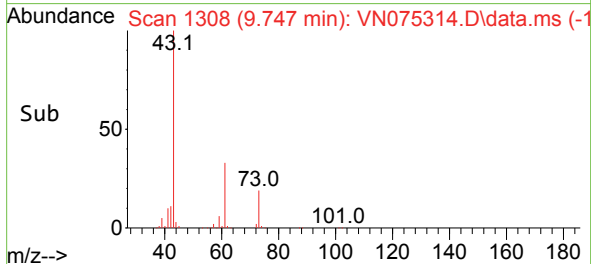
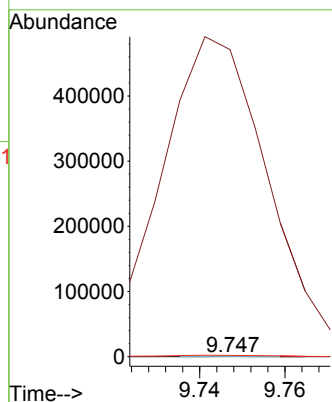
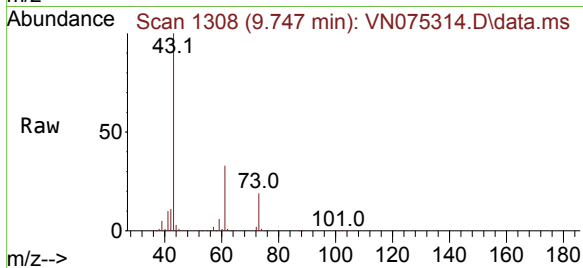
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 1547480.7 17.5 26.3#

58 7305.3 49.8 74.8#



#50

Toluene-d8

Concen: 52.528 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075314.D

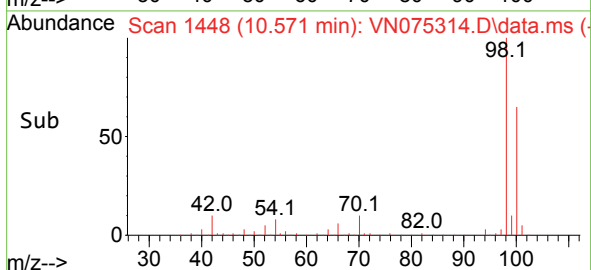
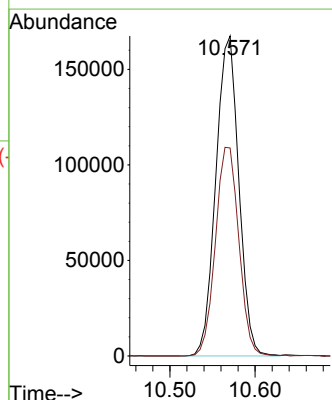
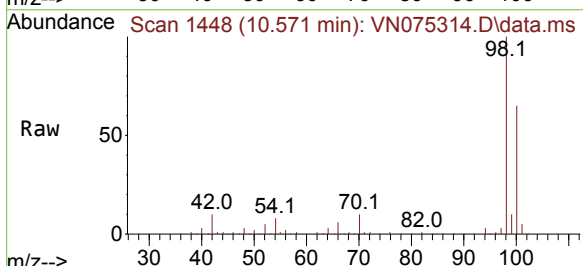
Acq: 18 Nov 2022 15:54

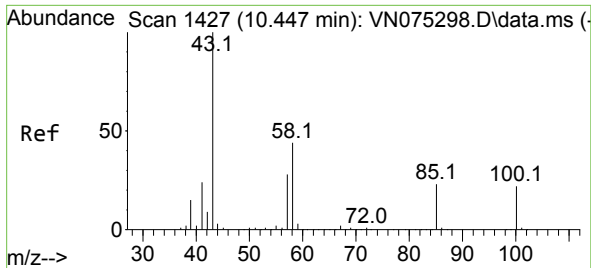
Tgt Ion: 98 Resp: 313567

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.6

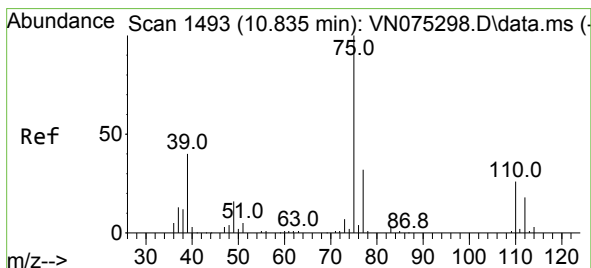
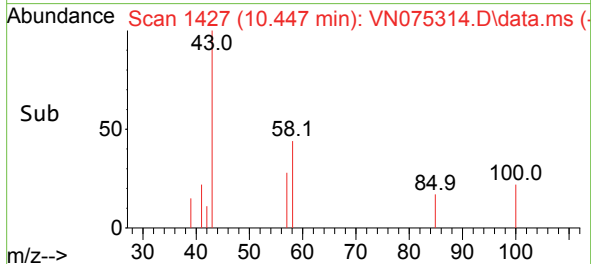
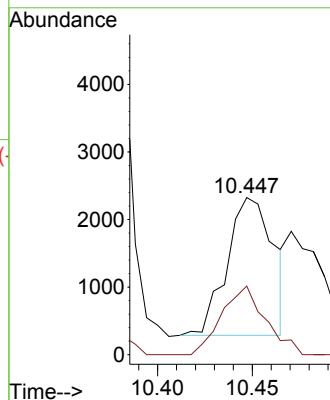
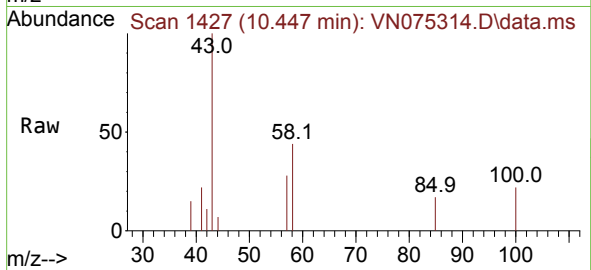




#51
4-Methyl-2-Pentanone
Concen: 1.331 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

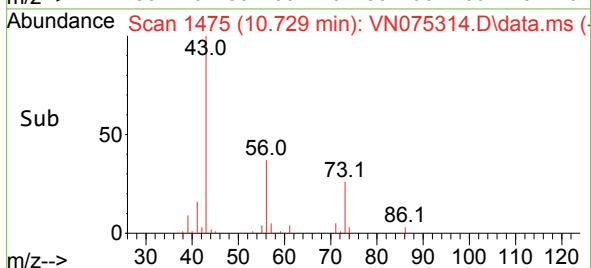
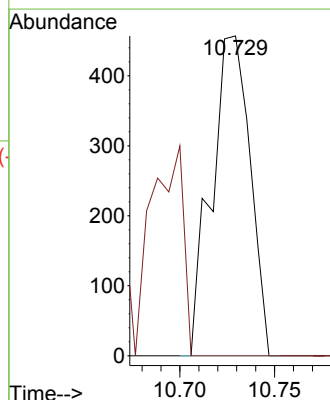
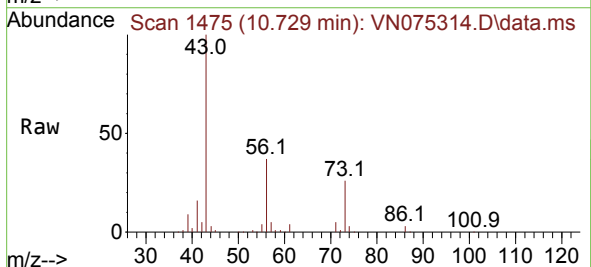
Instrument :
MSVOA_N
ClientSampleId :

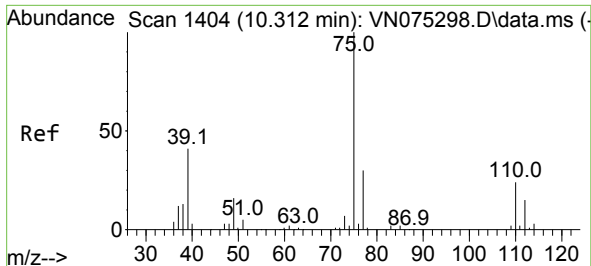
Tgt Ion: 43 Resp: 3481
Ion Ratio Lower Upper
43 100
58 46.7 33.6 50.4



#53
t-1,3-Dichloropropene
Concen: 0.234 ug/l
RT: 10.729 min Scan# 1475
Delta R.T. -0.112 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 75 Resp: 648
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#

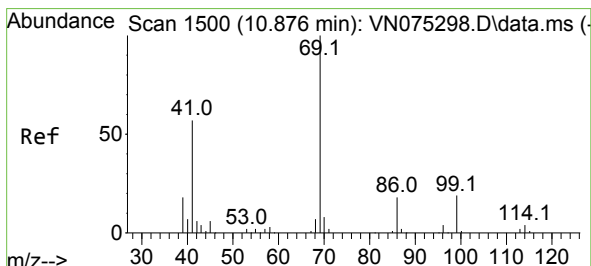
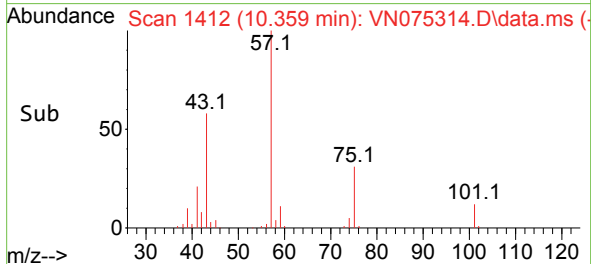
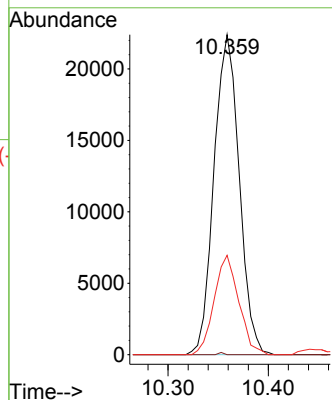
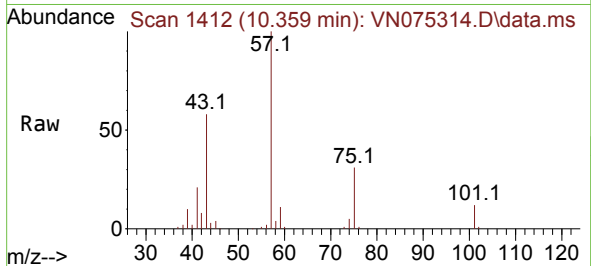




#54
 cis-1,3-Dichloropropene
 Concen: 13.341 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.041 min
 Lab File: VN075314.D
 Acq: 18 Nov 2022 15:54

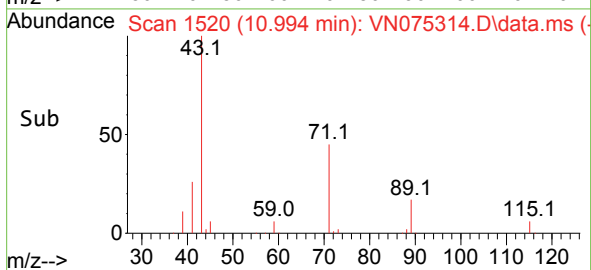
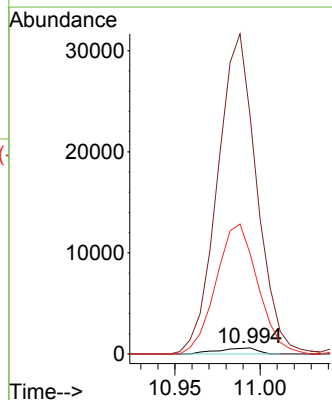
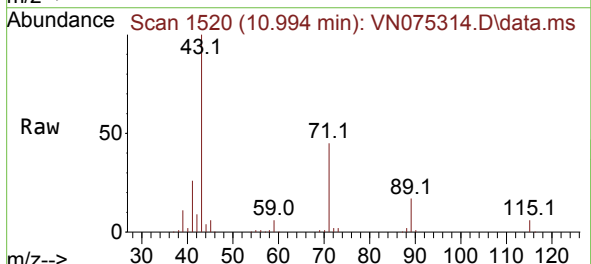
Instrument :
 MSVOA_N
 ClientSampleId :

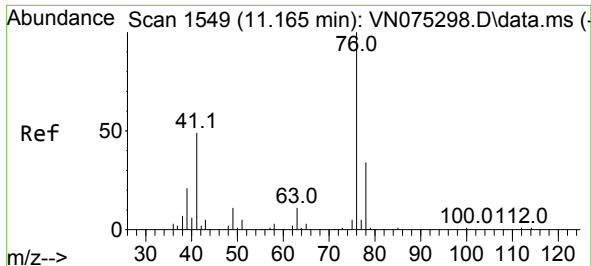
Tgt Ion: 75 Resp: 39111
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.7 35.5#
 39 31.1 35.8 53.6#



#56
 Ethyl methacrylate
 Concen: 0.320 ug/l
 RT: 10.994 min Scan# 1520
 Delta R.T. 0.117 min
 Lab File: VN075314.D
 Acq: 18 Nov 2022 15:54

Tgt Ion: 69 Resp: 944
 Ion Ratio Lower Upper
 69 100
 41 5380.1 45.6 68.4#
 39 2322.8 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.653 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.035 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

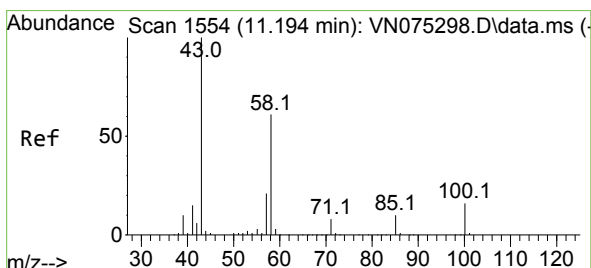
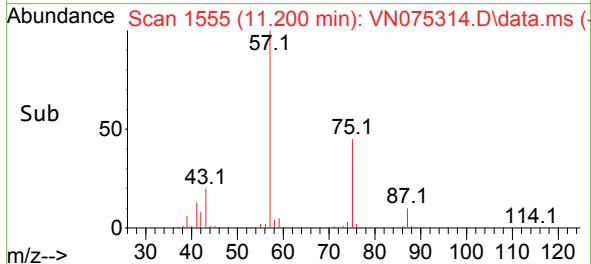
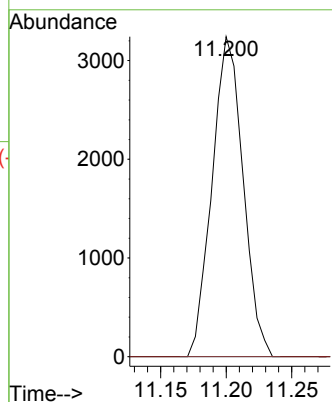
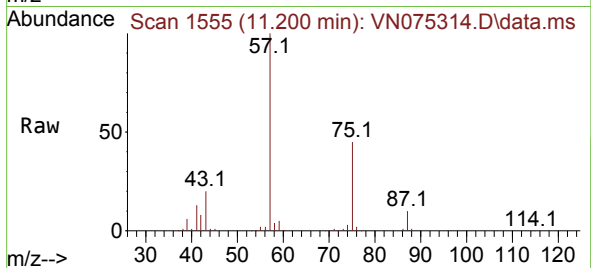
ClientSampleId :

Tgt Ion: 76 Resp: 5323

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 41.742 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN075314.D

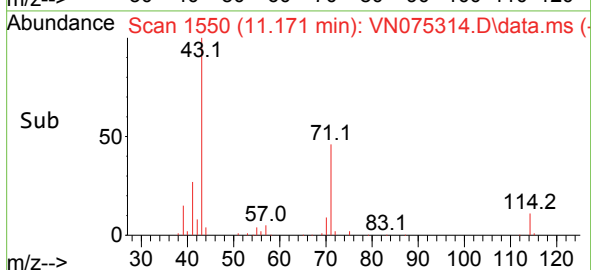
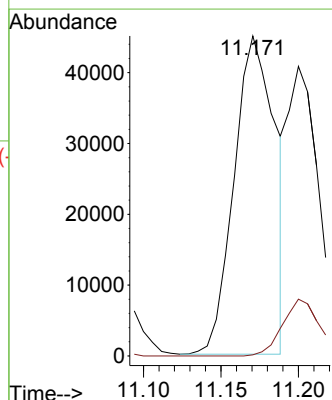
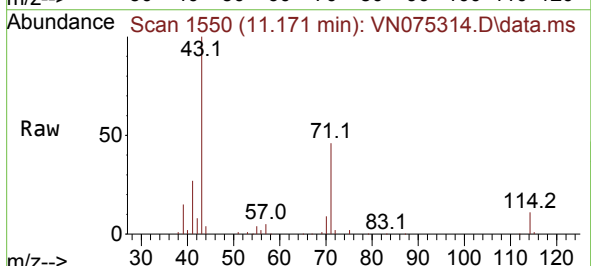
Acq: 18 Nov 2022 15:54

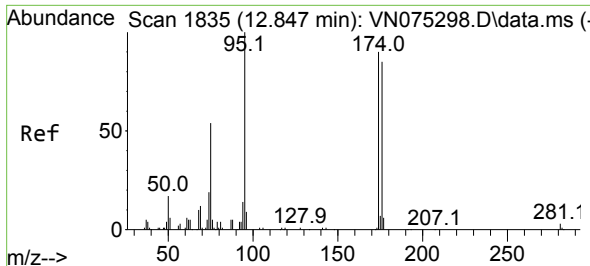
Tgt Ion: 43 Resp: 82841

Ion Ratio Lower Upper

43 100

58 0.0 29.6 88.8#

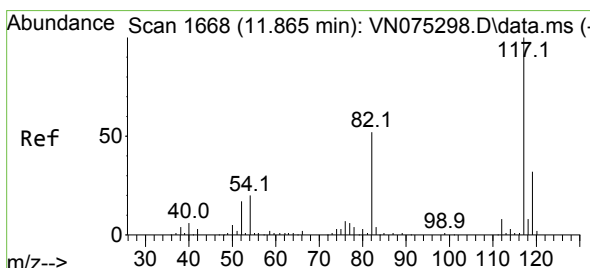
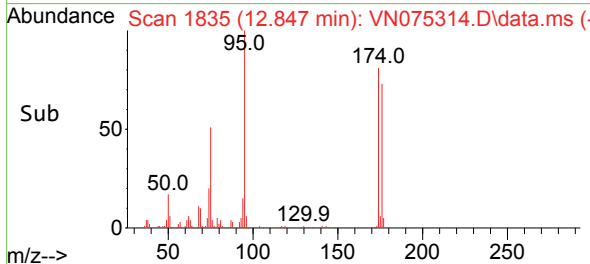
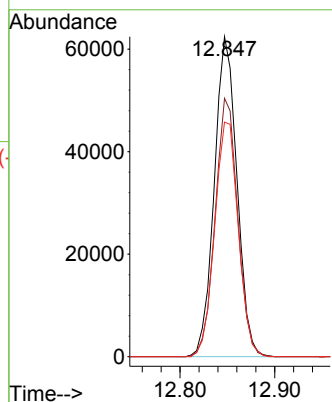
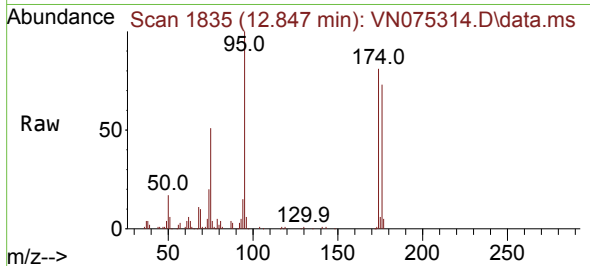




#62
4-Bromofluorobenzene
Concen: 49.403 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.006 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

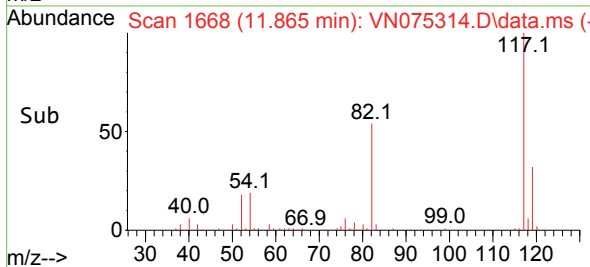
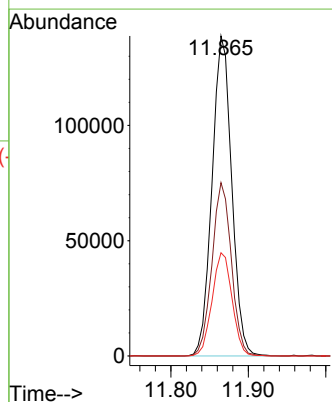
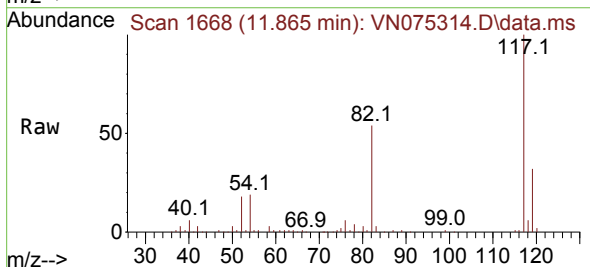
Instrument :
MSVOA_N
ClientSampleId :

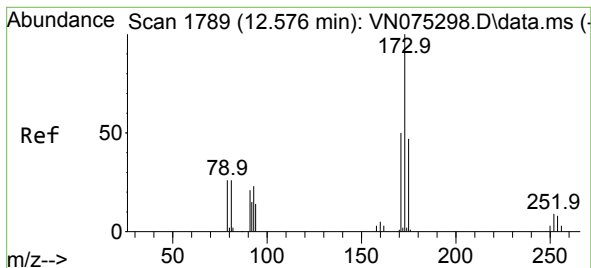
Tgt Ion: 95 Resp: 103597
Ion Ratio Lower Upper
95 100
174 80.6 0.0 147.4
176 76.4 0.0 142.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.006 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 117 Resp: 244701
Ion Ratio Lower Upper
117 100
82 54.2 43.1 64.7
119 32.3 25.5 38.3





#71

Bromoform

Concen: 0.616 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN075314.D

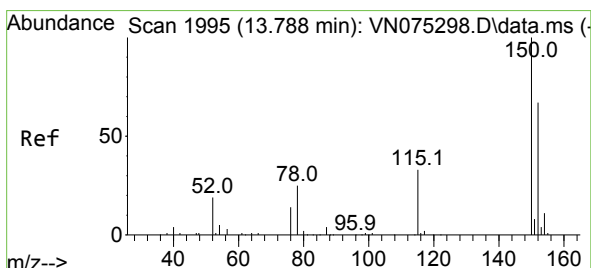
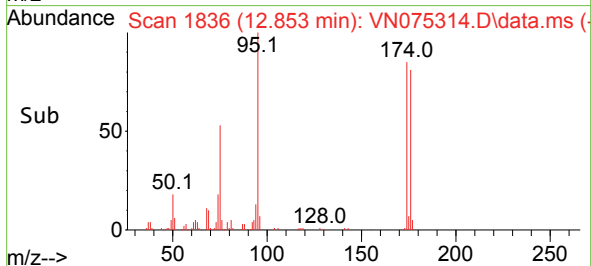
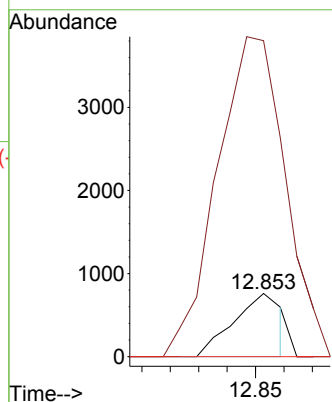
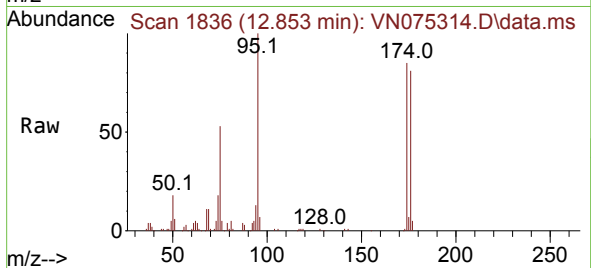
Acq: 18 Nov 2022 15:54

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173	Resp:	893
Ion Ratio	Lower	Upper
173	100	
175	647.7	24.6 74.0#
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

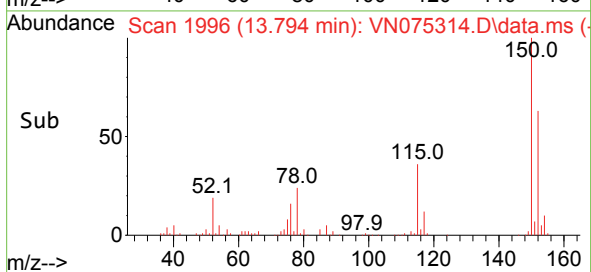
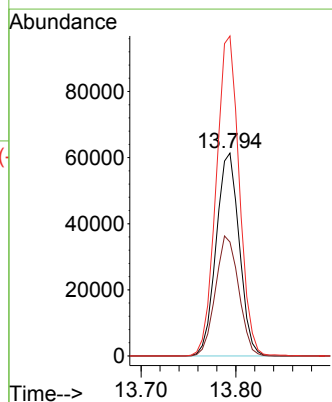
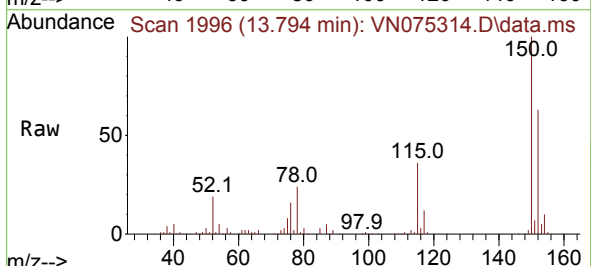
RT: 13.794 min Scan# 1996

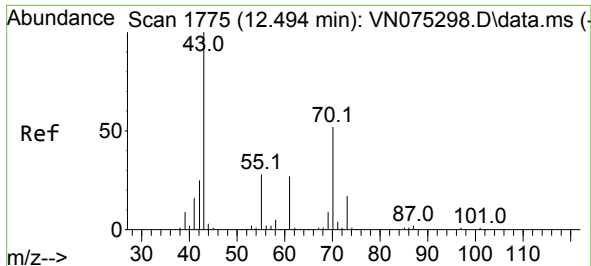
Delta R.T. -0.000 min

Lab File: VN075314.D

Acq: 18 Nov 2022 15:54

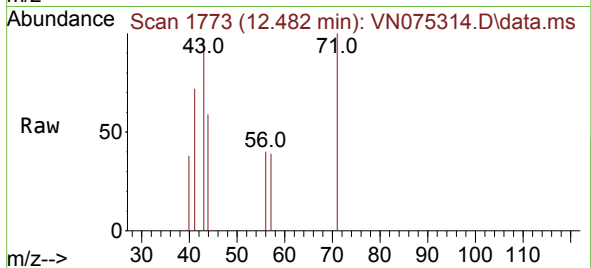
Tgt Ion:152	Resp:	104133
Ion Ratio	Lower	Upper
152	100	
115	59.4	30.2 90.6
150	157.2	0.0 348.4



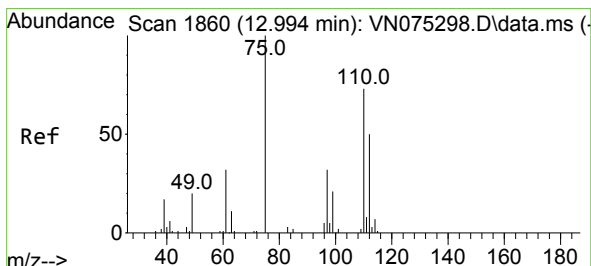
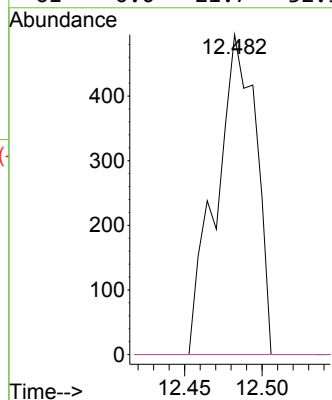
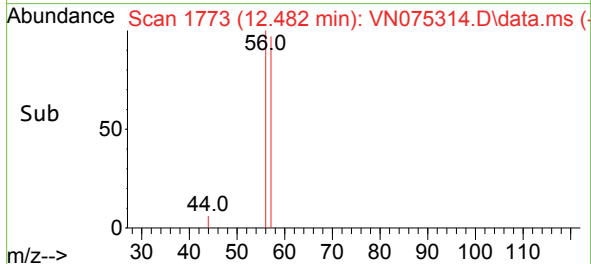


#74
N-amy1 acetate
Concen: 0.286 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Instrument :
MSVOA_N
ClientSampleId :

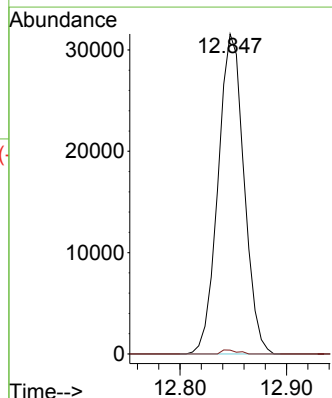
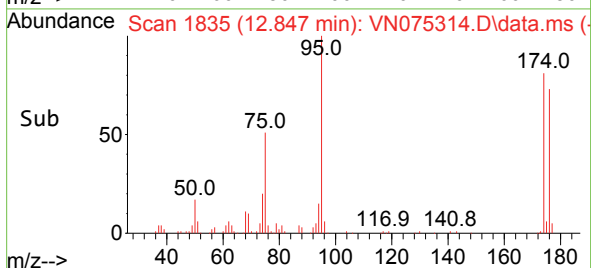
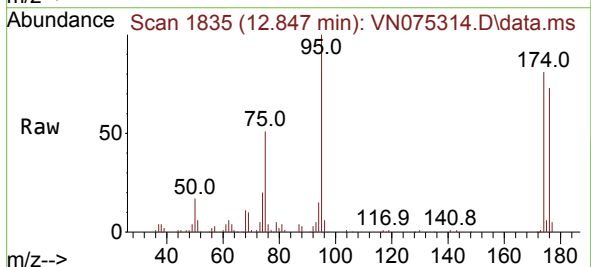


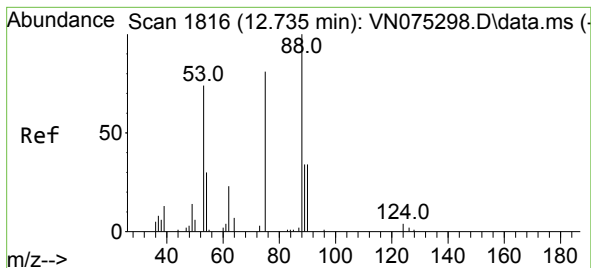
Tgt Ion: 43	Resp:	885
Ion	Ratio	Lower Upper
43	100	
70	0.0	39.8 59.8#
55	0.0	19.9 29.9#
61	0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 24.153 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion: 75	Resp:	53403
Ion	Ratio	Lower Upper
75	100	
77	0.8	75.6 226.8#

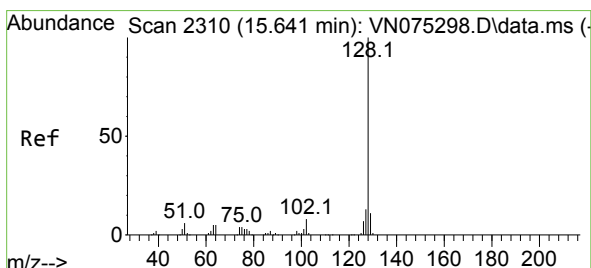
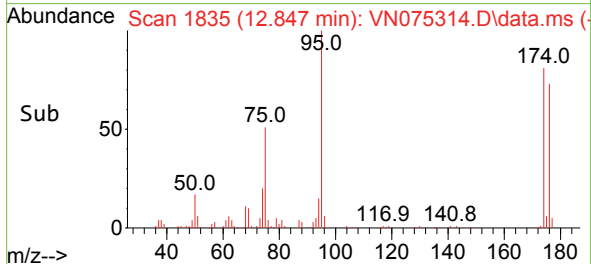
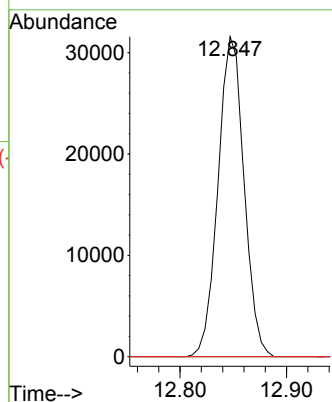
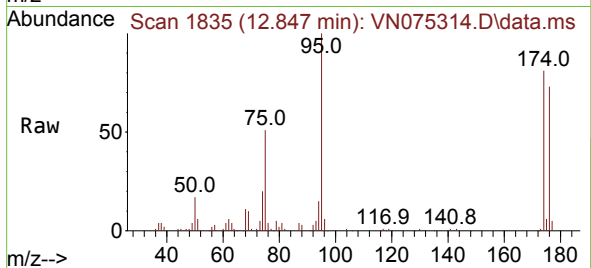




#81
trans-1,4-Dichloro-2-butene
Concen: 62.001 ug/l
RT: 12.847 min Scan# 1816
Delta R.T. 0.106 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 53403
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#



#95
Naphthalene
Concen: 0.296 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN075314.D
Acq: 18 Nov 2022 15:54

Tgt Ion:128 Resp: 1755
Ion Ratio Lower Upper
128 100
127 3.5 10.4 15.6#
129 0.0 8.6 12.8#

