

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061322\
 Data File : VN072818.D
 Acq On : 14 Jun 2022 00:59
 Operator : JC\MD
 Sample : N3299-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COM-4

Quant Time: Jun 14 05:24:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061322W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 13 17:28:28 2022
 Response via : Initial Calibration

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

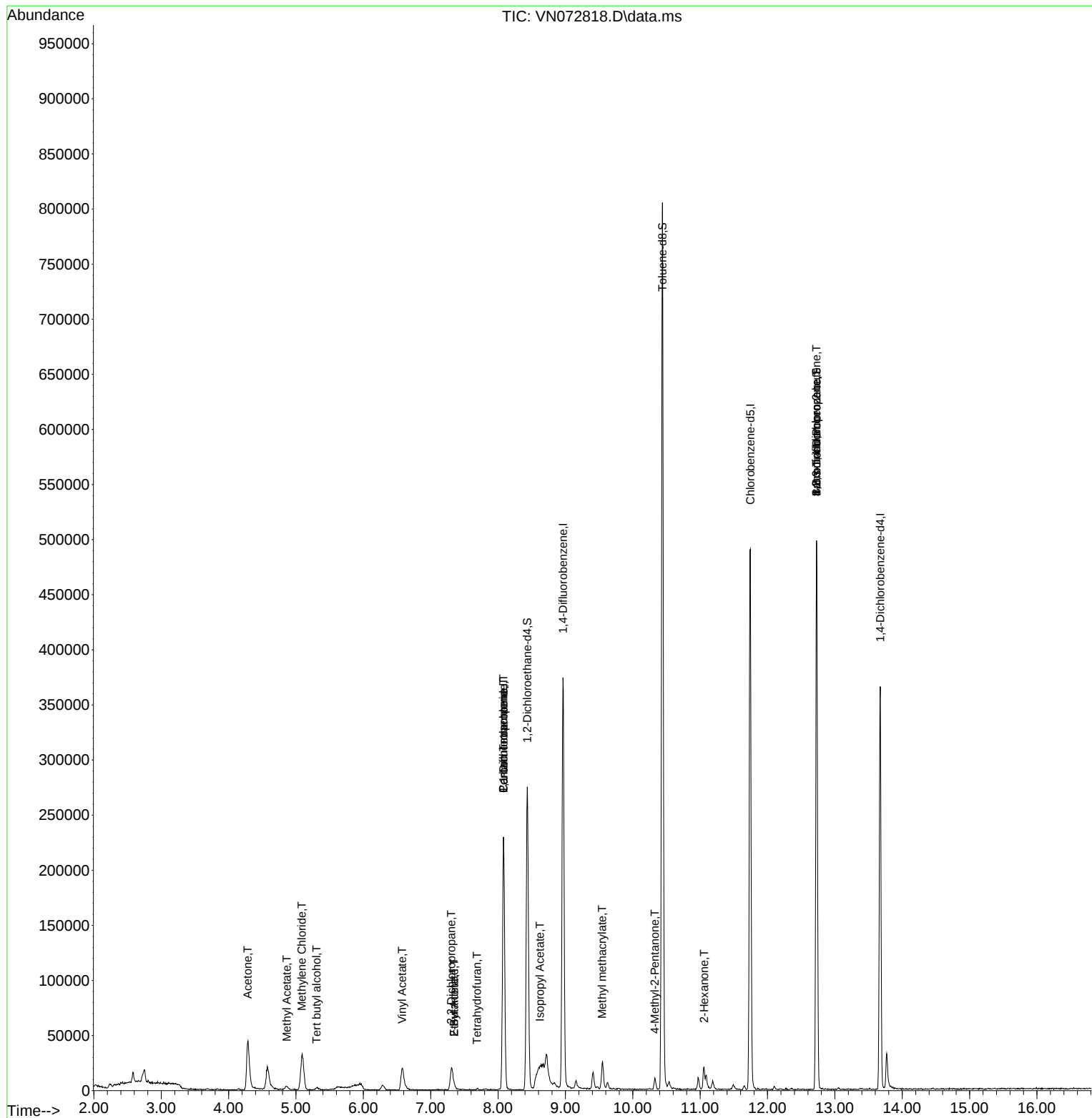
Internal Standards						
1) Pentafluorobenzene	8.081	168	143408	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.963	114	296204	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	256823	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	86120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	231104	57.557	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	115.120%		
35) Dibromofluoromethane	8.010	113	556	0.188	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	0.380%#		
50) Toluene-d8	10.439	98	511955	43.213	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	86.420%		
62) 4-Bromofluorobenzene	12.727	95	169939	40.591	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	81.180%		
Target Compounds						
						Qvalue
3) Chloromethane	2.304	50	508	Below Cal	#	43
6) Chloroethane	2.998	64	578	Below Cal	#	42
11) Tert butyl alcohol	5.304	59	1775	0.450	ug/l #	72
13) Acrolein	4.045	56	53	Below Cal	#	1
16) Acetone	4.281	43	85304	46.783	ug/l	90
17) Carbon Disulfide	4.522	76	339	Below Cal	#	75
18) Methyl Acetate	4.863	43	7174	1.497	ug/l #	87
20) Methylene Chloride	5.087	84	23679	8.403	ug/l	88
23) Vinyl Acetate	6.575	43	4815	0.548	ug/l #	68
25) 2-Butanone	7.345	43	7944	2.778	ug/l #	79
26) 2,2-Dichloropropane	7.304	77	1065	0.227	ug/l #	53
29) Tetrahydrofuran	7.686	42	876	0.494	ug/l #	35
31) Cyclohexane	8.081	56	5072	Below Cal	#	21
36) 1,1-Dichloropropene	8.081	75	16912	4.114	ug/l #	48
37) Ethyl Acetate	7.345	43	7944	1.265	ug/l #	67
38) Carbon Tetrachloride	8.081	117	18192	4.222	ug/l #	16
43) Isopropyl Acetate	8.622	43	40346	4.150	ug/l #	53
48) Methyl methacrylate	9.545	41	10177	2.256	ug/l #	22
51) 4-Methyl-2-Pentanone	10.327	43	7968	1.236	ug/l #	83
59) 2-Hexanone	11.057	43	21006	4.397	ug/l #	21
71) Bromoform	12.727	173	1278	0.681	ug/l #	1
76) 1,2,3-Trichloropropane	12.727	75	101188	34.234	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	101188	104.341	ug/l #	10

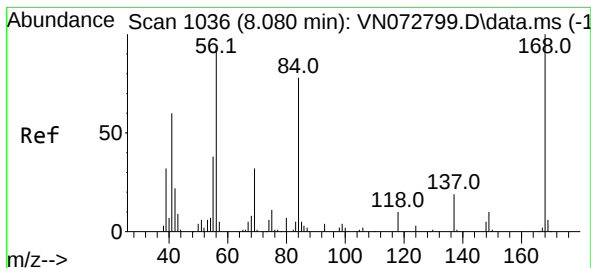
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 13 17:28:28 2022
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. 0.001 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

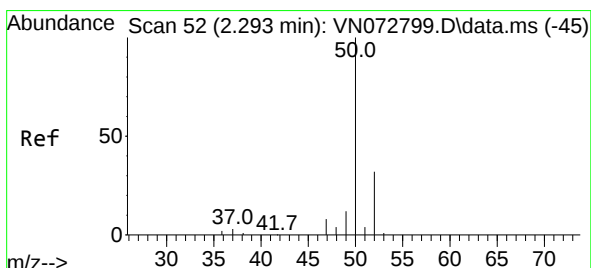
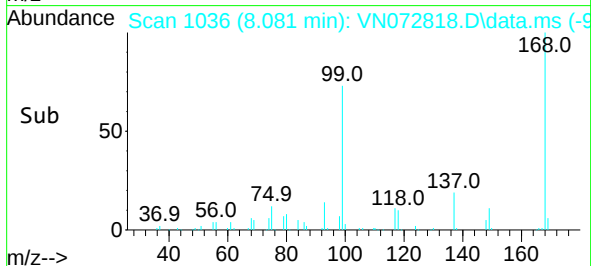
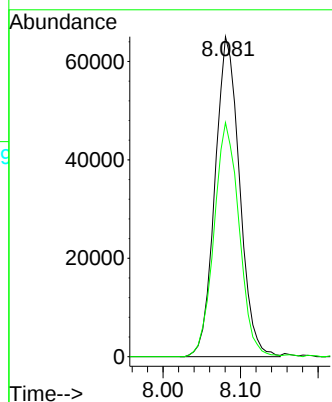
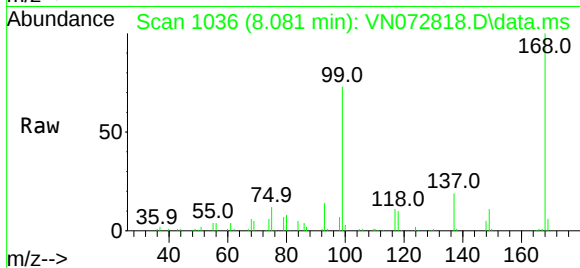
COM-4

Tgt Ion:168 Resp: 143408

Ion Ratio Lower Upper

168 100

99 73.2 42.3 63.5#



#3

Chloromethane

Concen: Below Cal

RT: 2.304 min Scan# 54

Delta R.T. 0.011 min

Lab File: VN072818.D

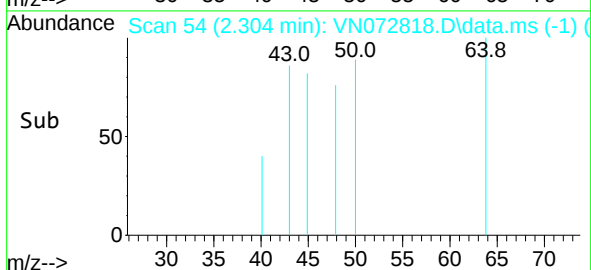
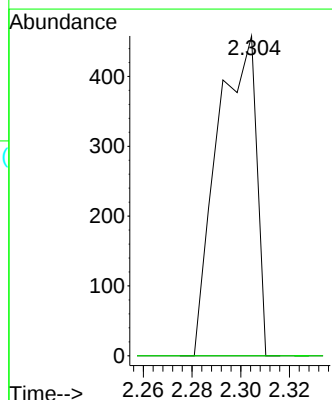
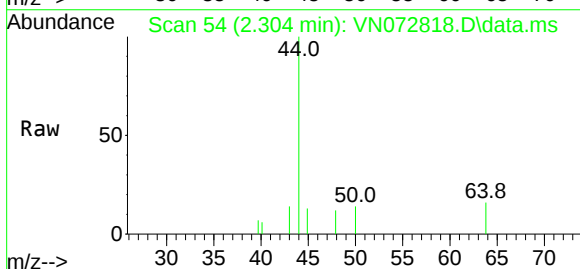
Acq: 14 Jun 2022 00:59

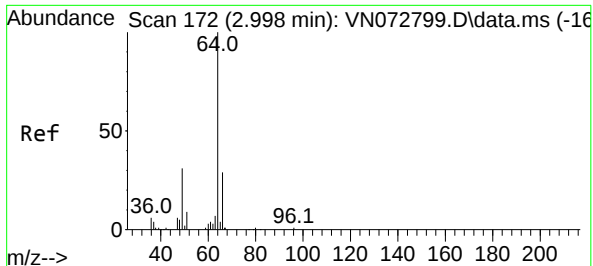
Tgt Ion: 50 Resp: 508

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#

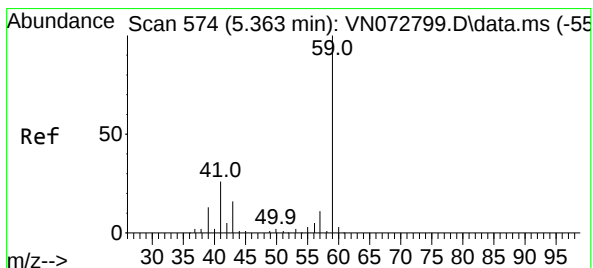
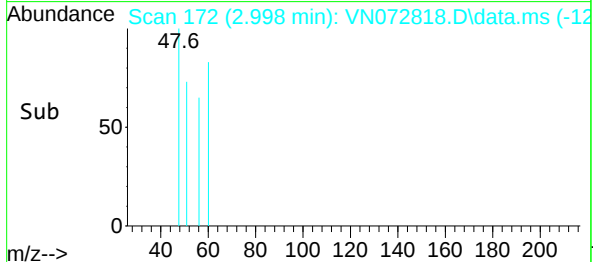
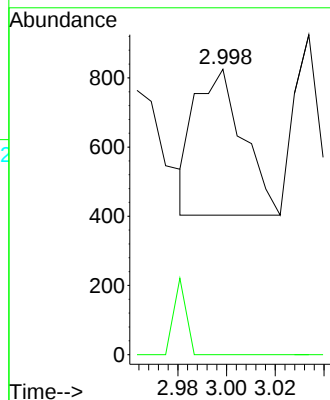
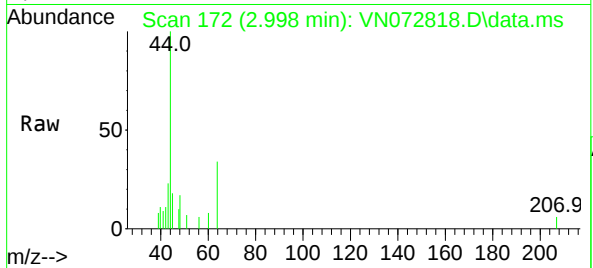




#6
Chloroethane
Concen: Below Cal
RT: 2.998 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

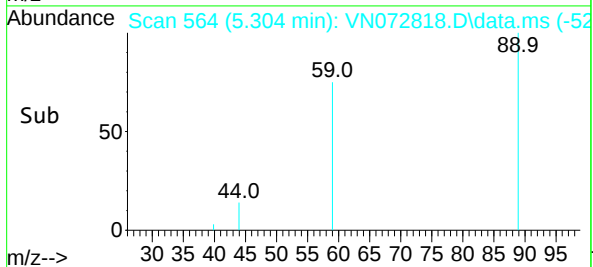
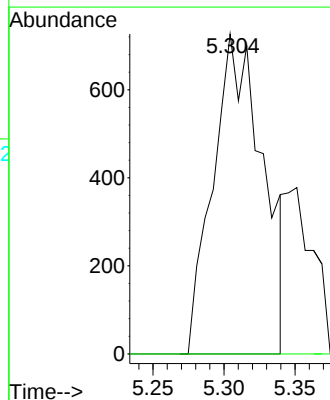
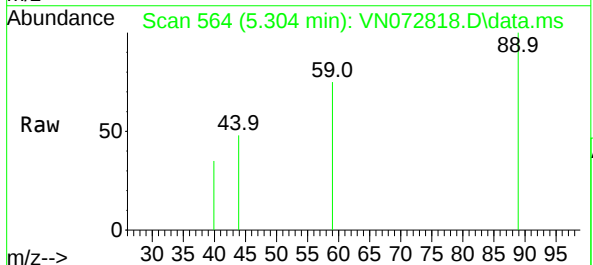
Instrument :
MSVOA_N
ClientSampleId :
COM-4

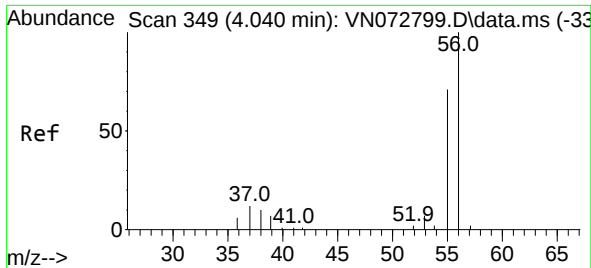
Tgt Ion: 64 Resp: 578
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.450 ug/l
RT: 5.304 min Scan# 564
Delta R.T. -0.059 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion: 59 Resp: 1775
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: Below Cal

RT: 4.045 min Scan# 3

Delta R.T. 0.005 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

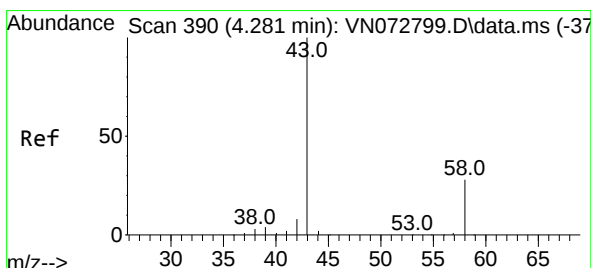
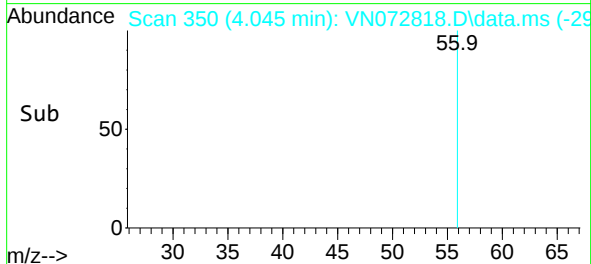
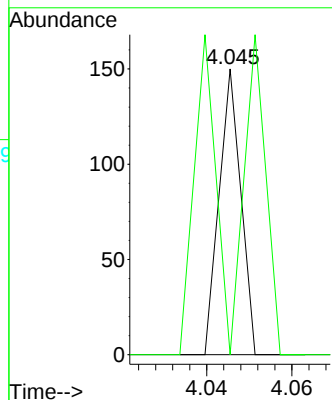
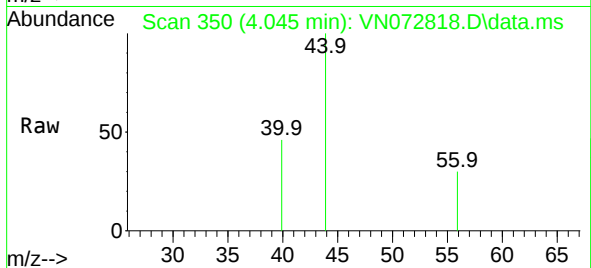
COM-4

Tgt Ion: 56 Resp: 53

Ion Ratio Lower Upper

56 100

55 224.5 54.8 82.2#



#16

Acetone

Concen: 46.783 ug/l

RT: 4.281 min Scan# 390

Delta R.T. -0.000 min

Lab File: VN072818.D

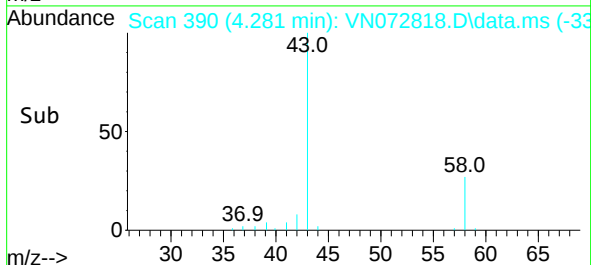
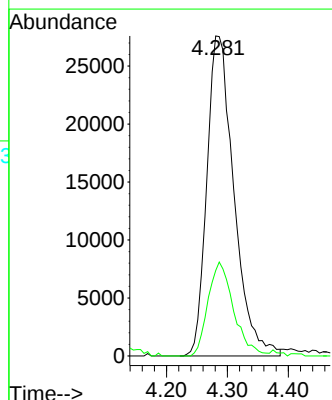
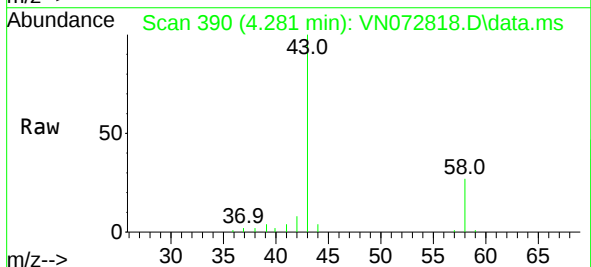
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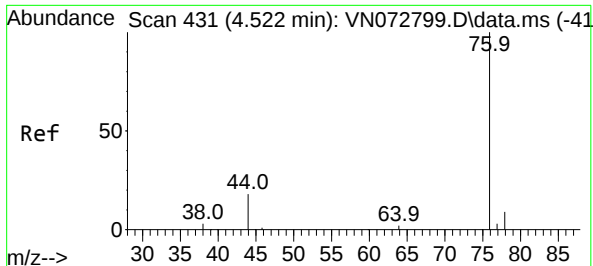
Tgt Ion: 43 Resp: 85304

Ion Ratio Lower Upper

43 100

58 26.7 26.0 39.0

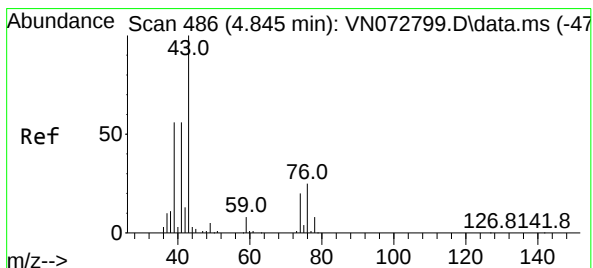
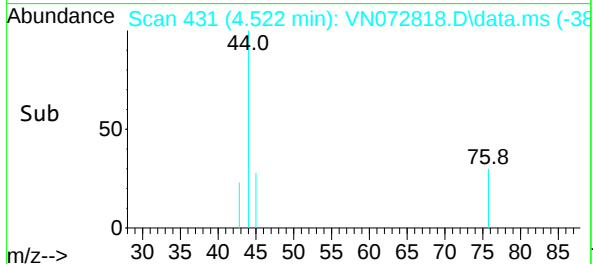
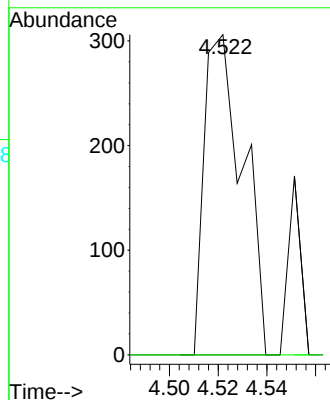
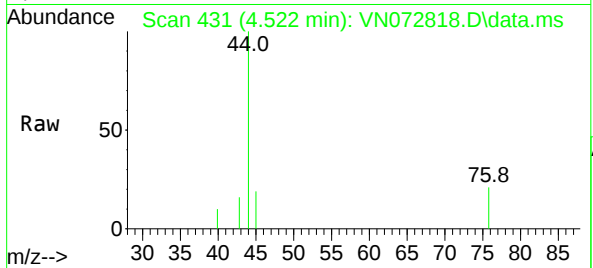




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.522 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

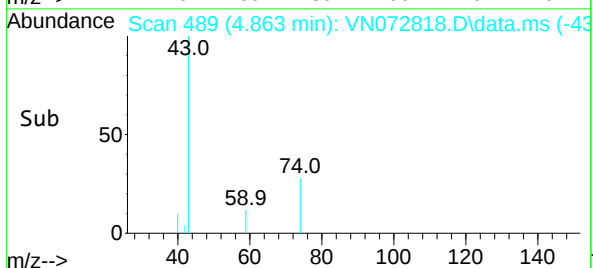
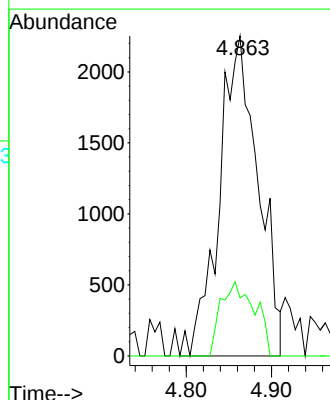
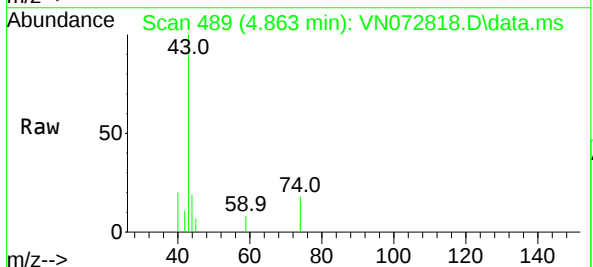
Instrument :
MSVOA_N
ClientSampleId :
COM-4

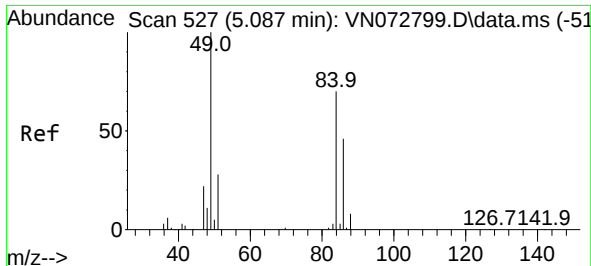
Tgt Ion: 76 Resp: 339
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 1.497 ug/l
RT: 4.863 min Scan# 489
Delta R.T. 0.018 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion: 43 Resp: 7174
Ion Ratio Lower Upper
43 100
74 20.0 21.6 32.4#

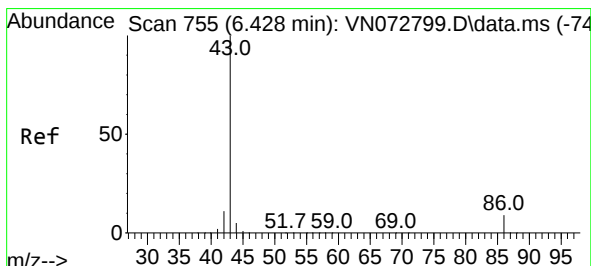
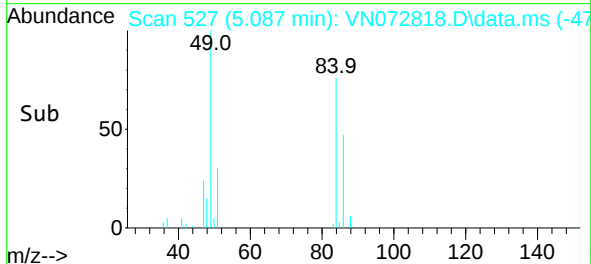
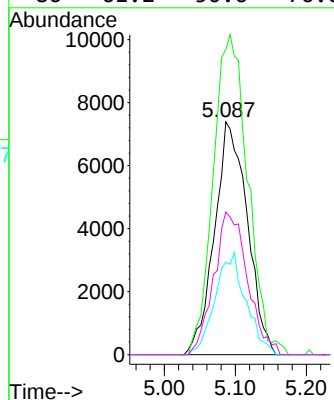
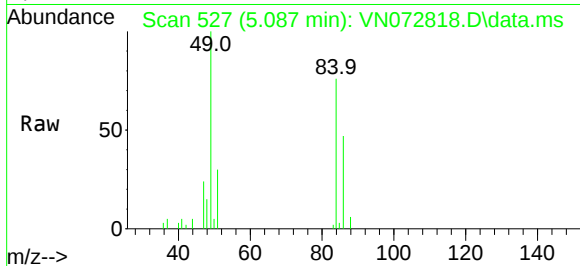




#20
Methylene Chloride
Concen: 8.403 ug/l
RT: 5.087 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

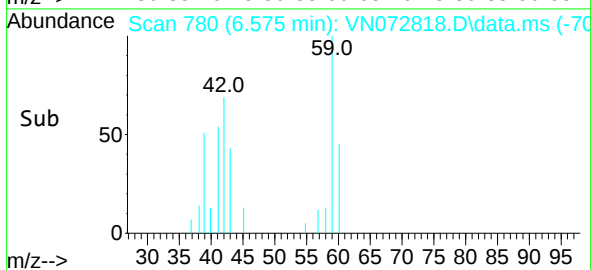
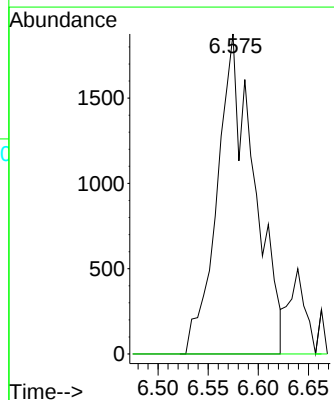
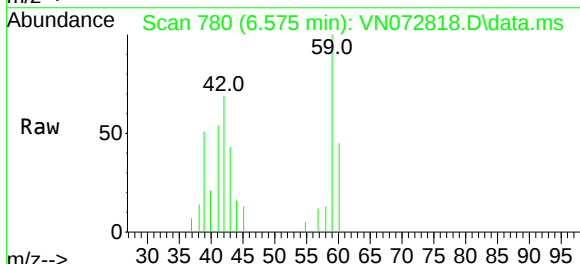
Instrument :
MSVOA_N
ClientSampleId :
COM-4

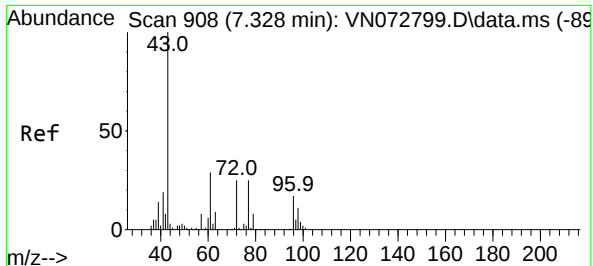
Tgt Ion:	84	Resp:	23679
Ion	Ratio	Lower	Upper
84	100		
49	131.1	88.3	132.5
51	39.7	28.2	42.2
86	61.2	50.6	76.0



#23
Vinyl Acetate
Concen: 0.548 ug/l
RT: 6.575 min Scan# 780
Delta R.T. 0.147 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion:	43	Resp:	4815
Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.0	15.0#





#25

2-Butanone

Concen: 2.778 ug/l

RT: 7.345 min Scan# 911

Delta R.T. 0.017 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

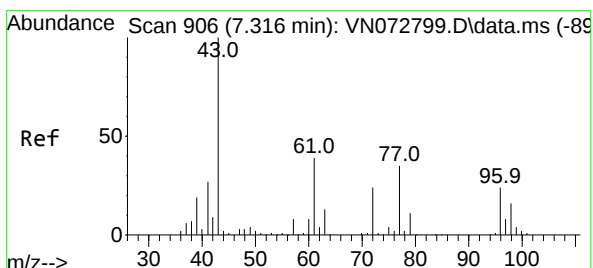
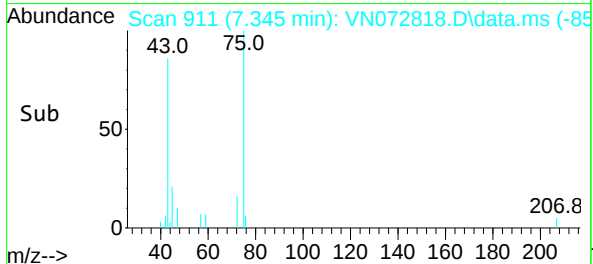
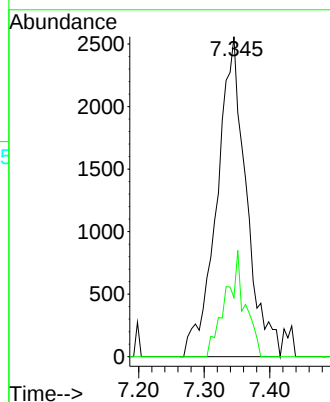
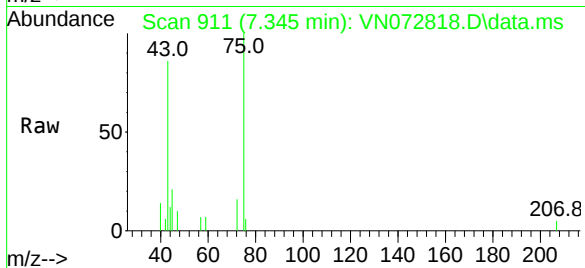
COM-4

Tgt Ion: 43 Resp: 7944

Ion Ratio Lower Upper

43 100

72 18.4 23.7 35.5#



#26

2,2-Dichloropropane

Concen: 0.227 ug/l

RT: 7.304 min Scan# 904

Delta R.T. -0.012 min

Lab File: VN072818.D

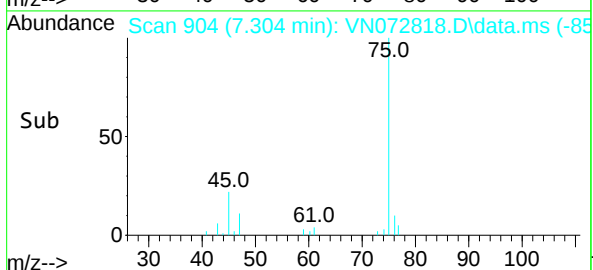
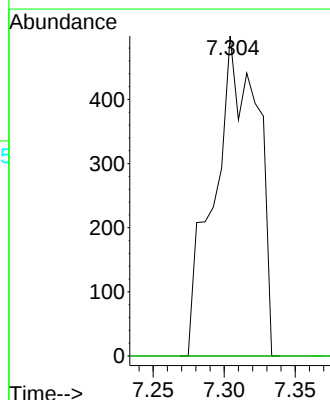
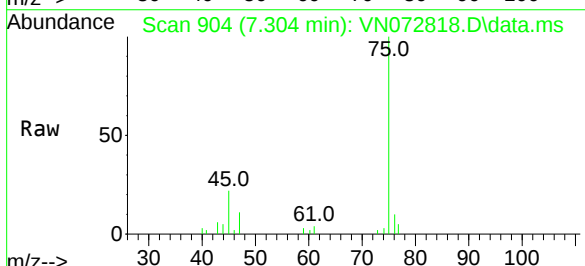
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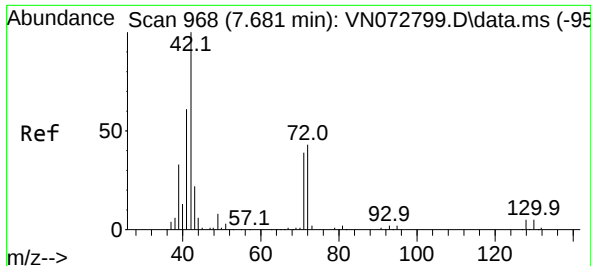
Tgt Ion: 77 Resp: 1065

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.494 ug/l

RT: 7.686 min Scan# 91

Delta R.T. 0.005 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

COM-4

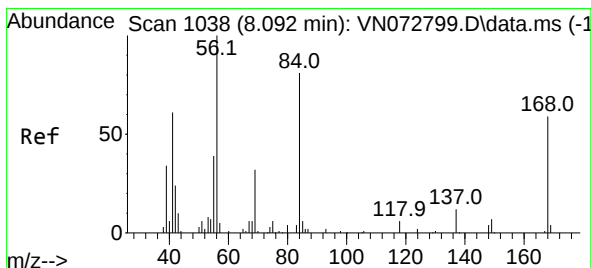
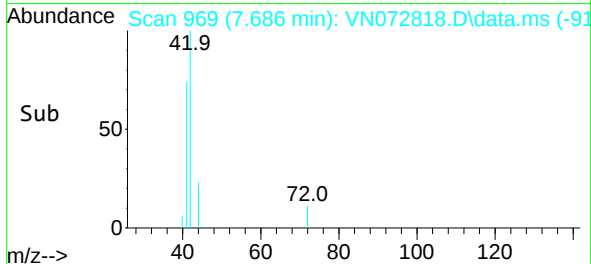
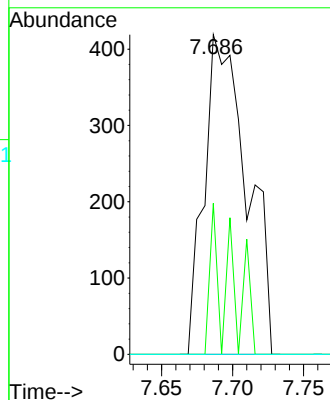
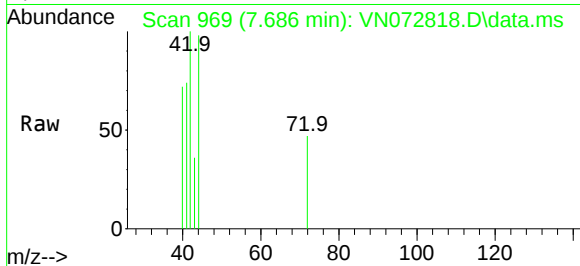
Tgt Ion: 42 Resp: 876

Ion Ratio Lower Upper

42 100

72 8.0 39.7 59.5#

71 0.0 36.6 55.0#



#31

Cyclohexane

Concen: Below Cal

RT: 8.081 min Scan# 1036

Delta R.T. -0.011 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

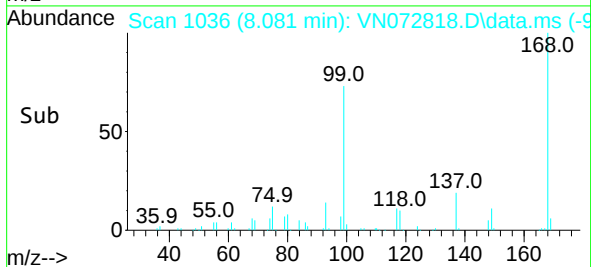
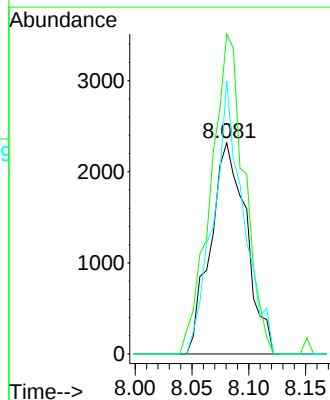
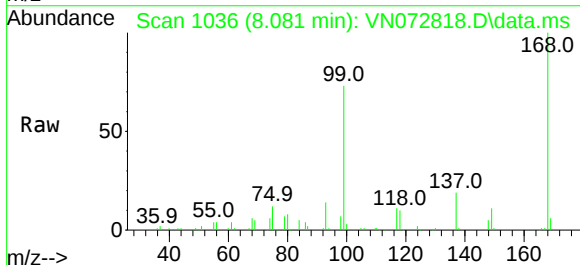
Tgt Ion: 56 Resp: 5072

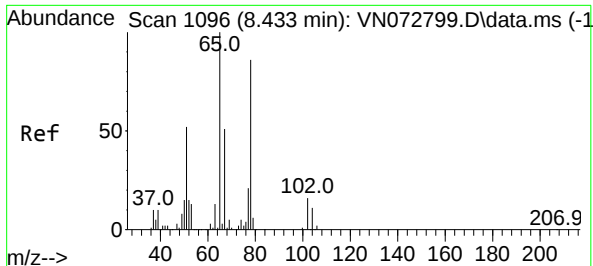
Ion Ratio Lower Upper

56 100

69 151.6 27.8 41.8#

84 129.4 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 57.557 ug/l

RT: 8.433 min Scan# 1109

Delta R.T. 0.000 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

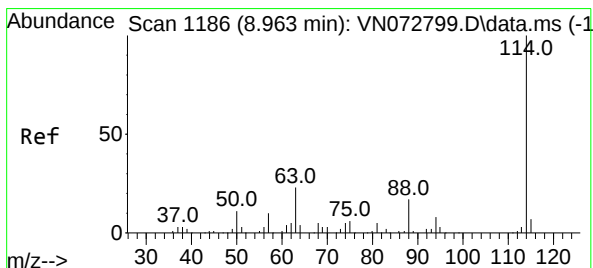
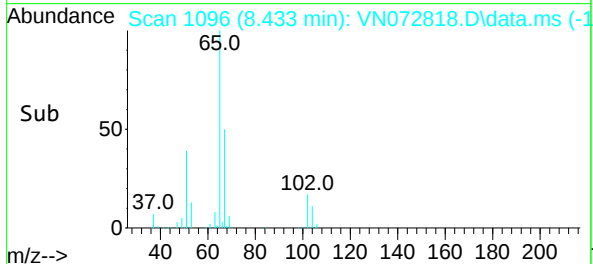
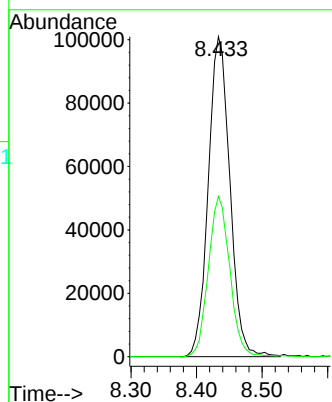
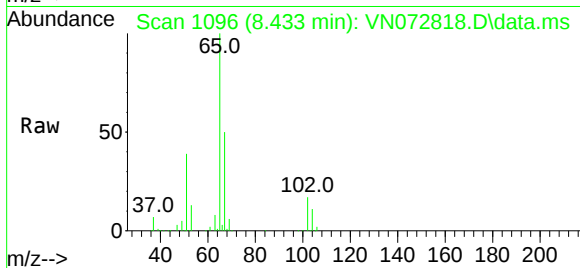
COM-4

Tgt Ion: 65 Resp: 231104

Ion Ratio Lower Upper

65 100

67 49.6 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

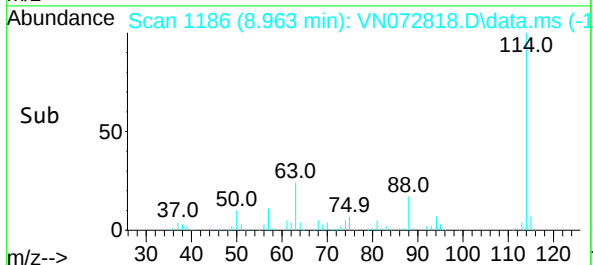
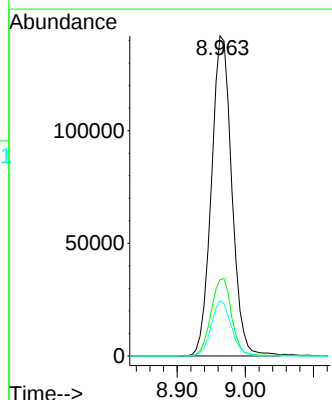
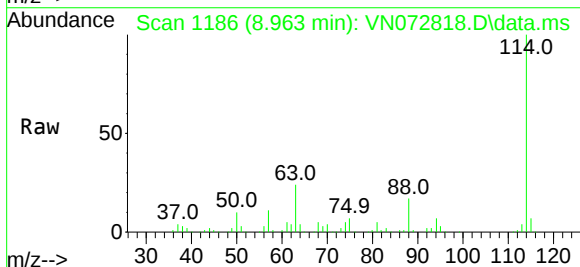
Tgt Ion: 114 Resp: 296204

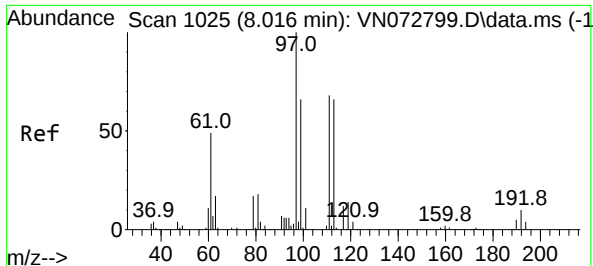
Ion Ratio Lower Upper

114 100

63 23.9 0.0 40.0

88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 0.188 ug/l

RT: 8.010 min Scan# 1035

Delta R.T. -0.006 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

COM-4

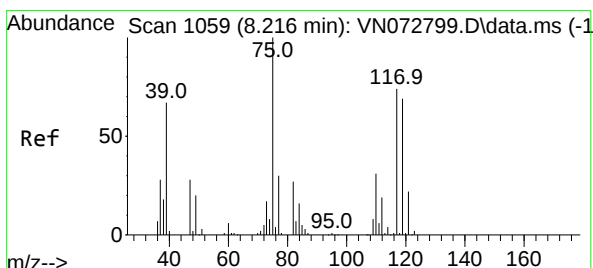
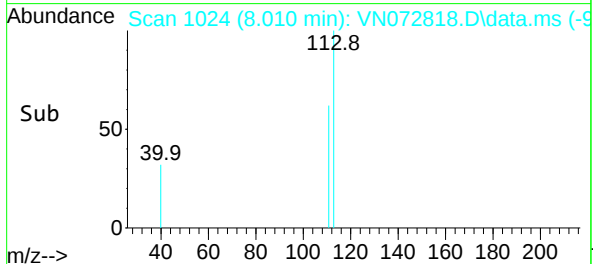
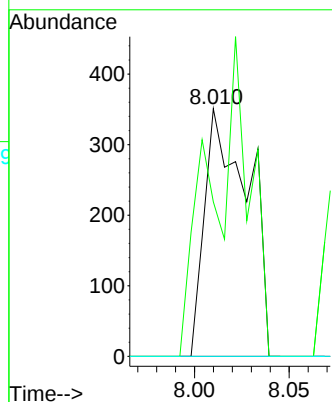
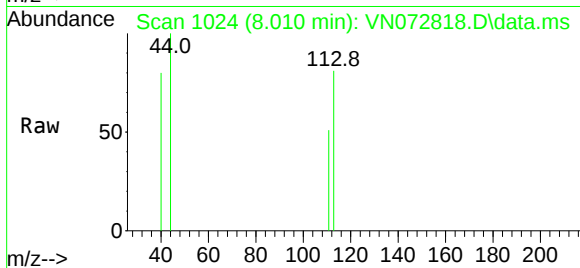
Tgt Ion:113 Resp: 556

Ion Ratio Lower Upper

113 100

111 114.7 81.4 122.0

192 0.0 17.0 25.6#



#36

1,1-Dichloropropene

Concen: 4.114 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

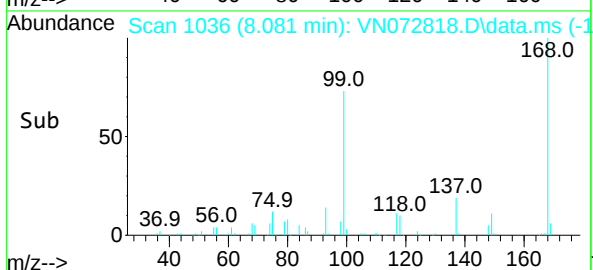
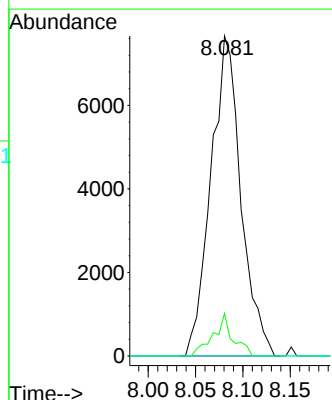
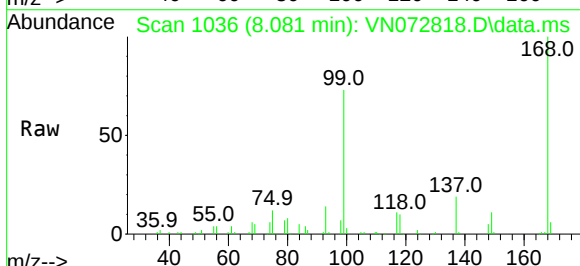
Tgt Ion: 75 Resp: 16912

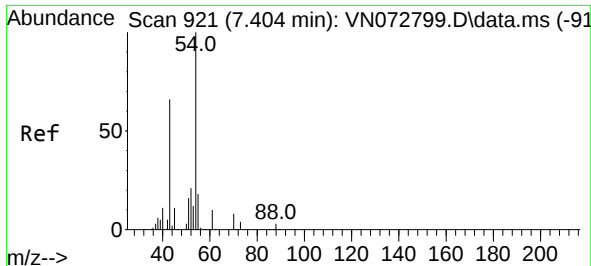
Ion Ratio Lower Upper

75 100

110 8.6 18.3 54.8#

77 0.0 25.1 37.7#

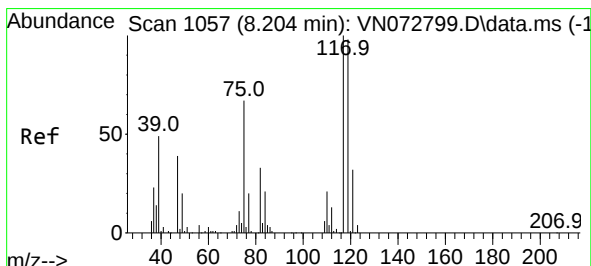
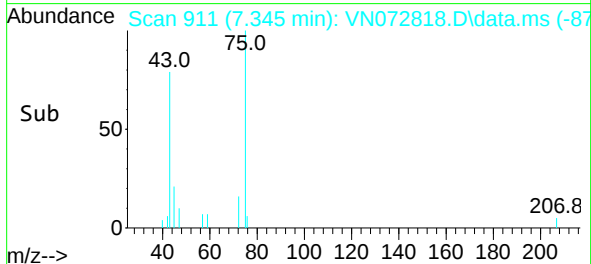
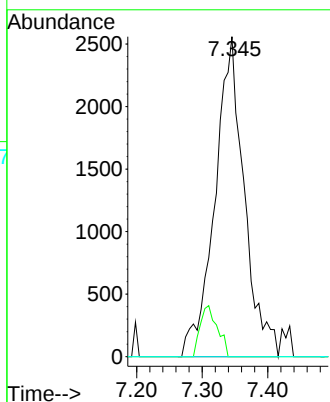
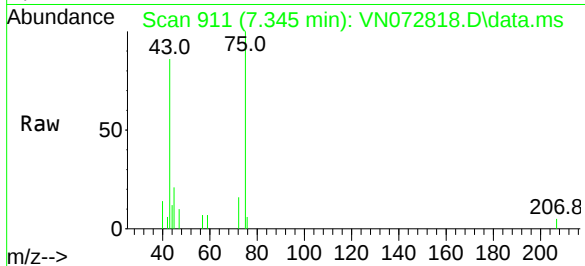




#37
Ethyl Acetate
Concen: 1.265 ug/l
RT: 7.345 min Scan# 911
Delta R.T. -0.059 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

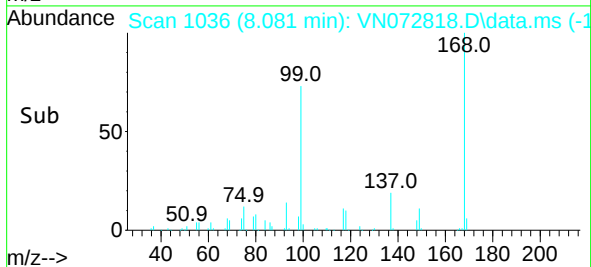
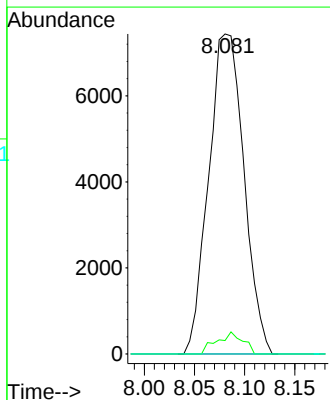
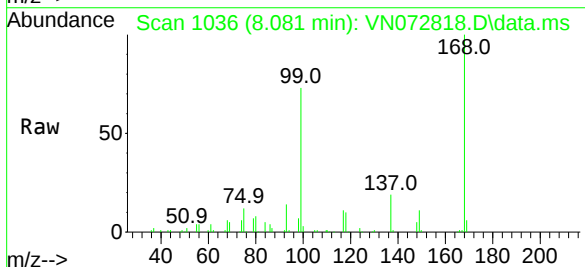
Instrument :
MSVOA_N
ClientSampleId :
COM-4

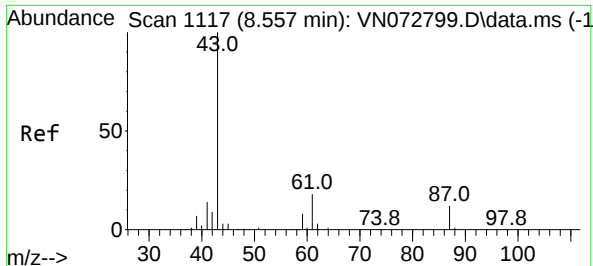
Tgt Ion: 43 Resp: 7944
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 4.222 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.123 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion: 117 Resp: 18192
Ion Ratio Lower Upper
117 100
119 4.2 75.8 113.8#
121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 4.150 ug/l

RT: 8.622 min Scan# 1117

Delta R.T. 0.065 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

COM-4

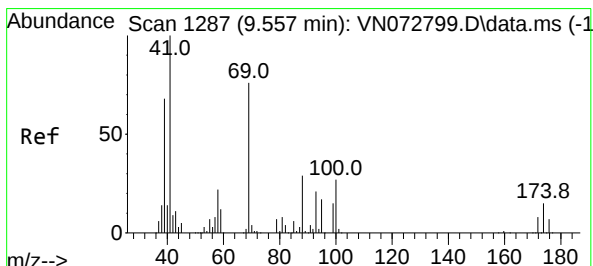
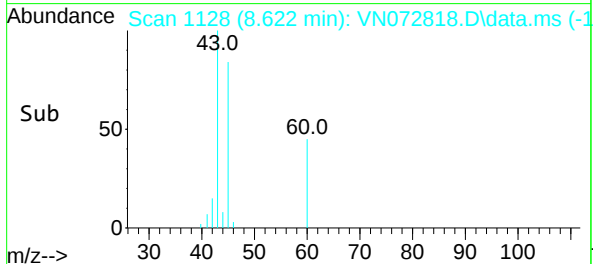
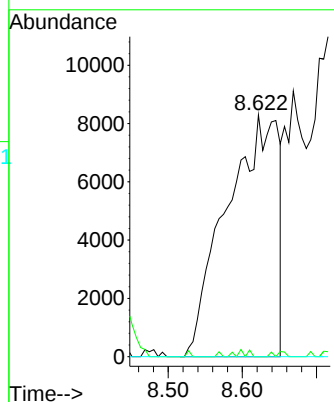
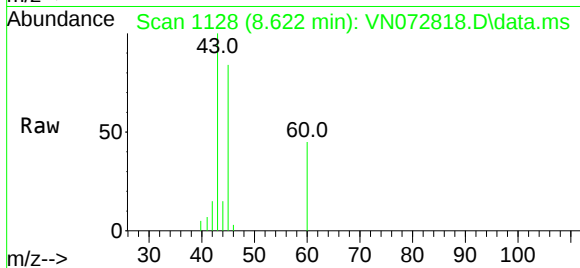
Tgt Ion: 43 Resp: 40346

Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#



#48

Methyl methacrylate

Concen: 2.256 ug/l

RT: 9.545 min Scan# 1285

Delta R.T. -0.012 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

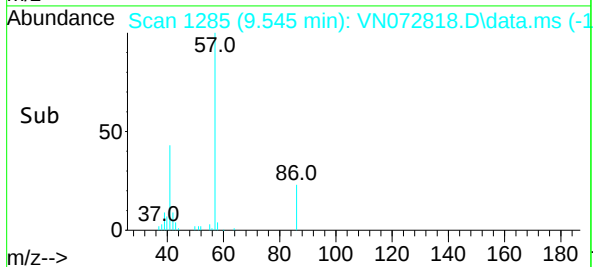
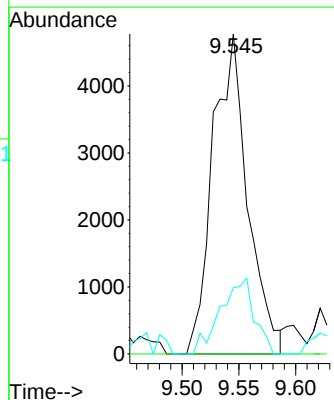
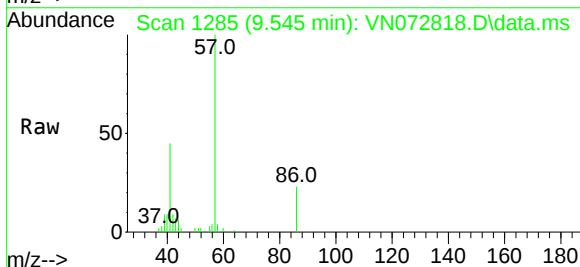
Tgt Ion: 41 Resp: 10177

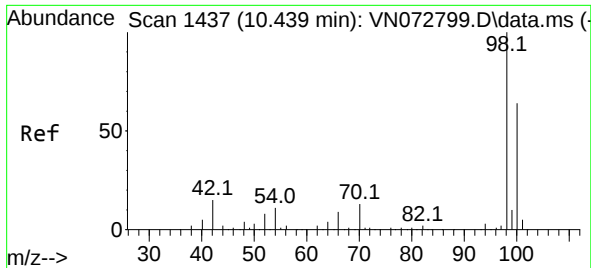
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 23.0 45.6 68.4#

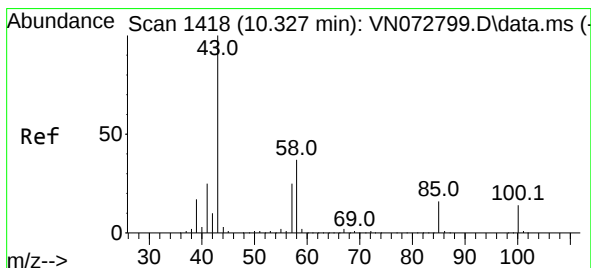
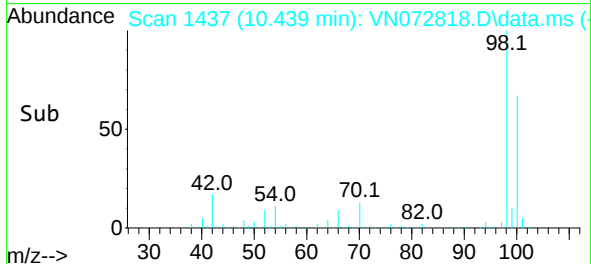
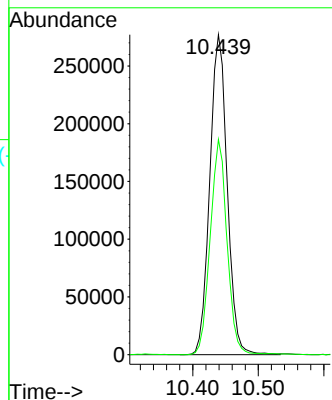
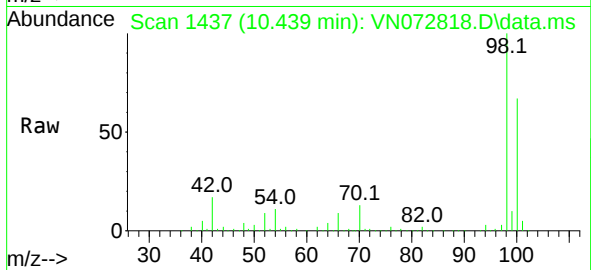




#50
Toluene-d8
Concen: 43.213 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

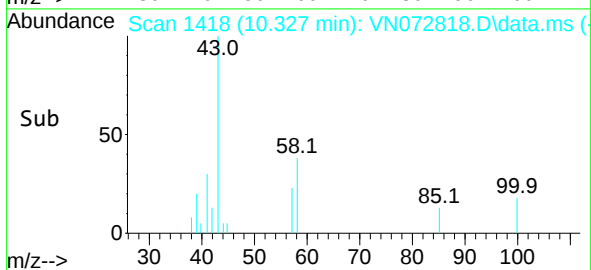
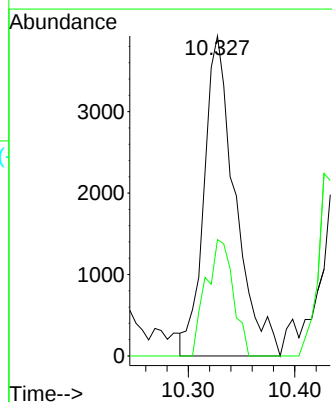
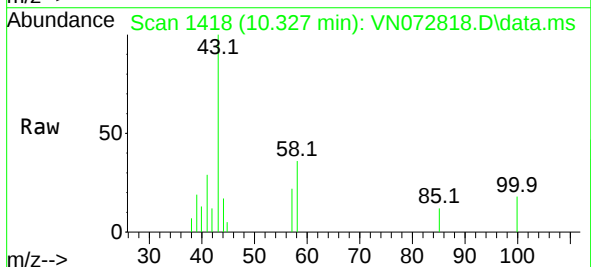
Instrument :
MSVOA_N
ClientSampleId :
COM-4

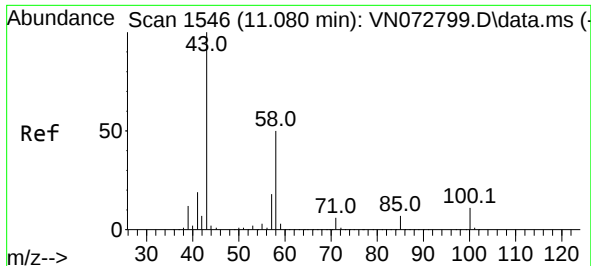
Tgt Ion: 98 Resp: 511955
Ion Ratio Lower Upper
98 100
100 65.2 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.236 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion: 43 Resp: 7968
Ion Ratio Lower Upper
43 100
58 31.6 34.1 51.1#

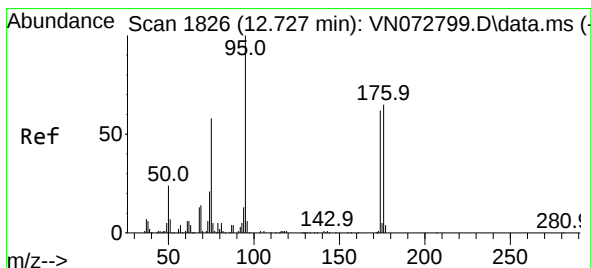
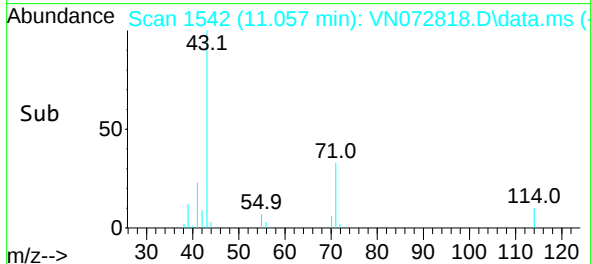
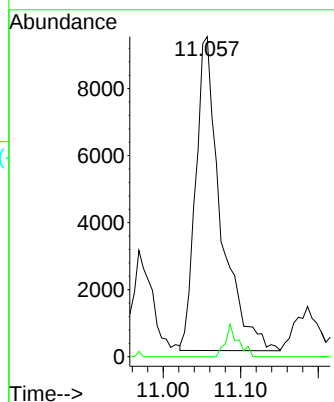
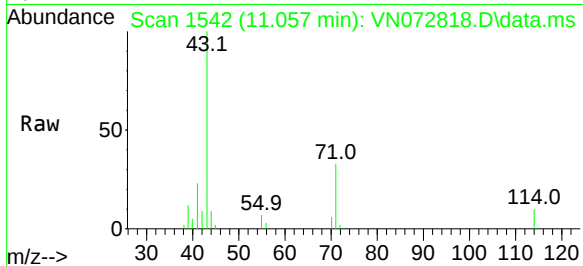




#59
2-Hexanone
Concen: 4.397 ug/l
RT: 11.057 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

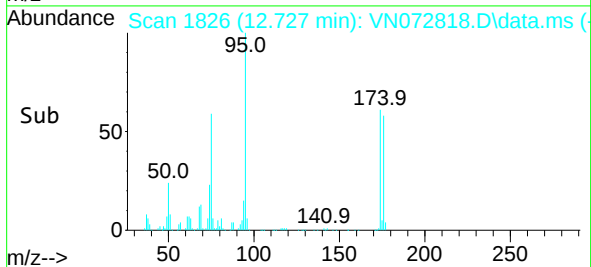
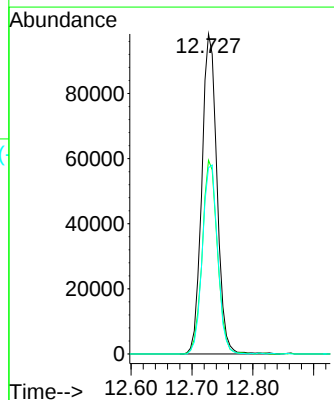
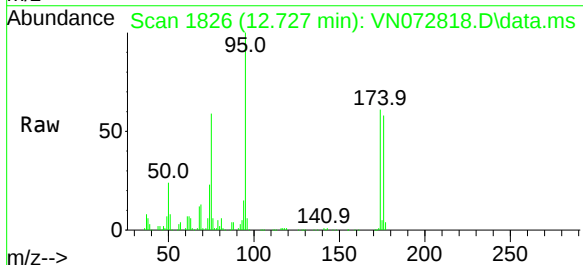
Instrument :
MSVOA_N
ClientSampleId :
COM-4

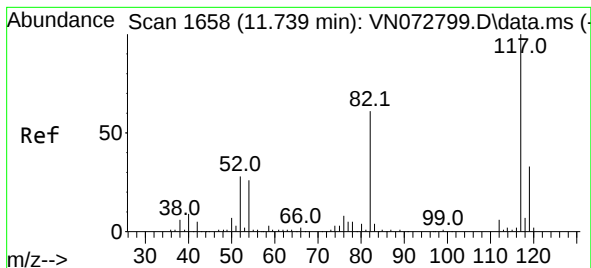
Tgt Ion: 43 Resp: 21006
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 40.591 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion: 95 Resp: 169939
Ion Ratio Lower Upper
95 100
174 60.7 0.0 167.6
176 59.5 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.745 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

Instrument :

MSVOA_N

ClientSampleId :

COM-4

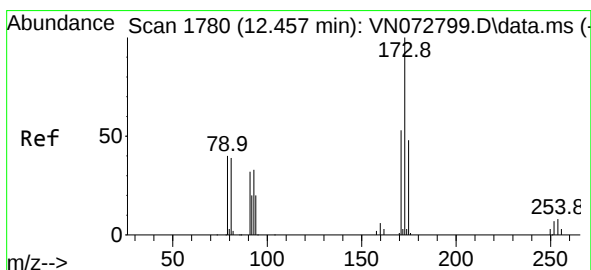
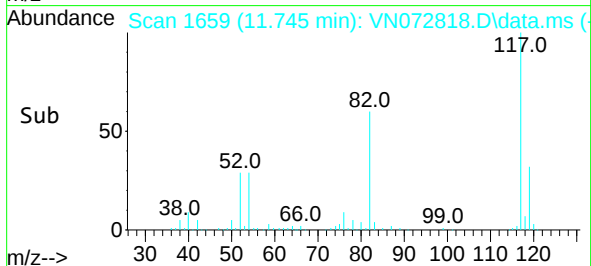
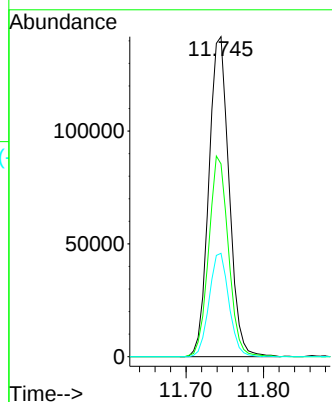
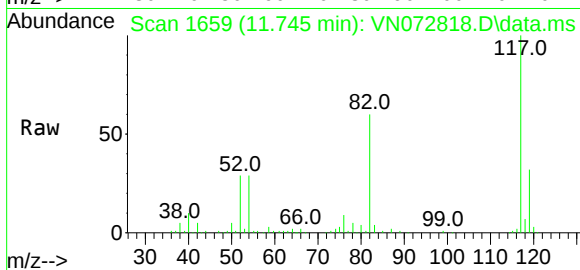
Tgt Ion:117 Resp: 256823

Ion Ratio Lower Upper

117 100

82 60.2 44.2 66.2

119 32.3 25.4 38.0



#71

Bromoform

Concen: 0.681 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.270 min

Lab File: VN072818.D

Acq: 14 Jun 2022 00:59

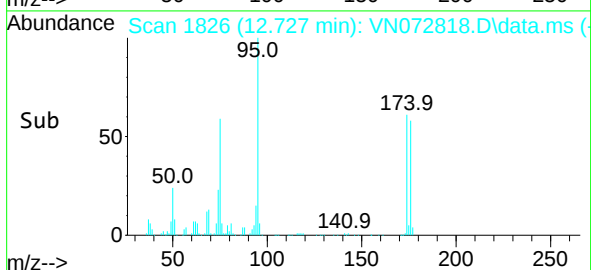
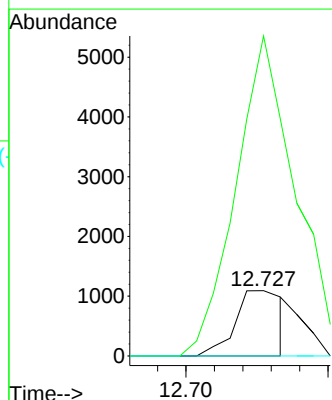
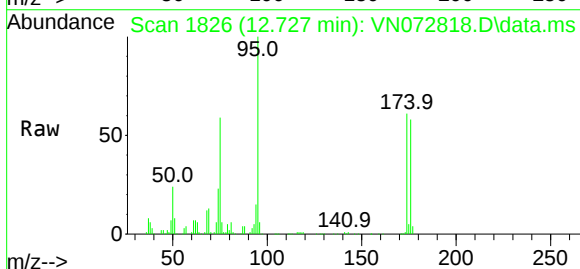
Tgt Ion:173 Resp: 1278

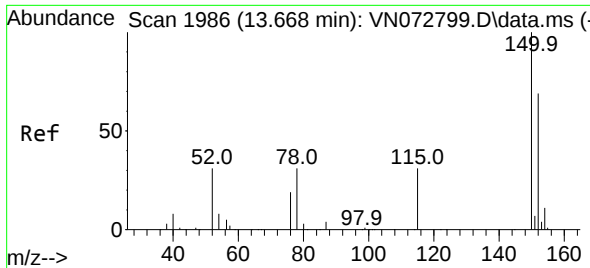
Ion Ratio Lower Upper

173 100

175 464.4 24.6 73.6#

254 0.0 0.1 0.1#

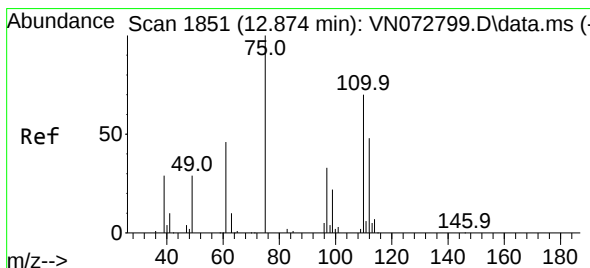
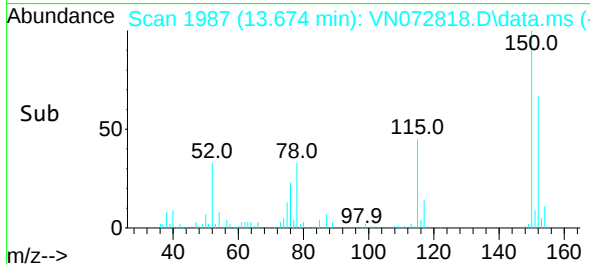
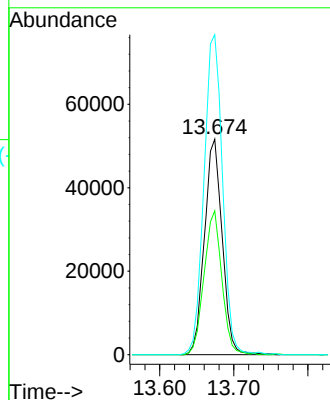
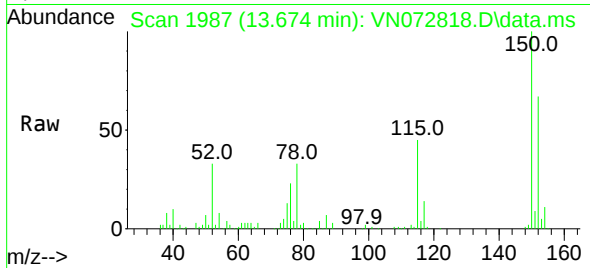




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1986
Delta R.T. 0.006 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

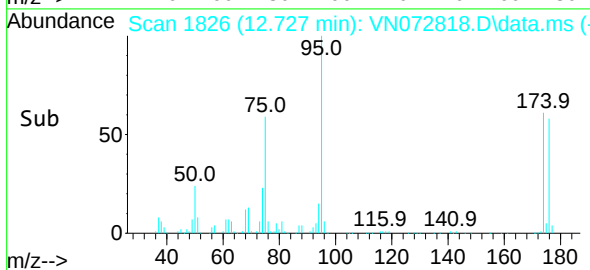
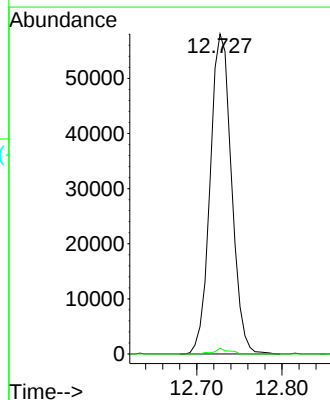
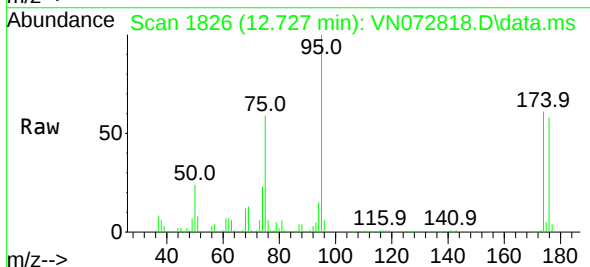
Instrument :
MSVOA_N
ClientSampleId :
COM-4

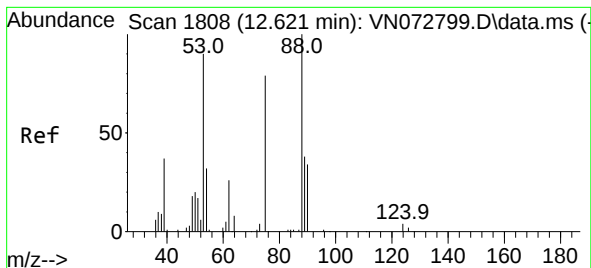
Tgt Ion:152 Resp: 86120
Ion Ratio Lower Upper
152 100
115 66.7 28.9 86.7
150 154.9 0.0 356.2



#76
1,2,3-Trichloropropane
Concen: 34.234 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072818.D
Acq: 14 Jun 2022 00:59

Tgt Ion: 75 Resp: 101188
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.341 ug/l
 RT: 12.727 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN072818.D
 Acq: 14 Jun 2022 00:59

Instrument :
 MSVOA_N
 ClientSampleId :
 COM-4

Tgt Ion: 75 Resp: 101188
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.1 37.2 55.8#

