

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062422\
 Data File : VN073093.D
 Acq On : 24 Jun 2022 19:25
 Operator : JC\MD
 Sample : N3455-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-EXC-2-3

Quant Time: Jun 24 23:41:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061722W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 18 06:22:45 2022
 Response via : Initial Calibration

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

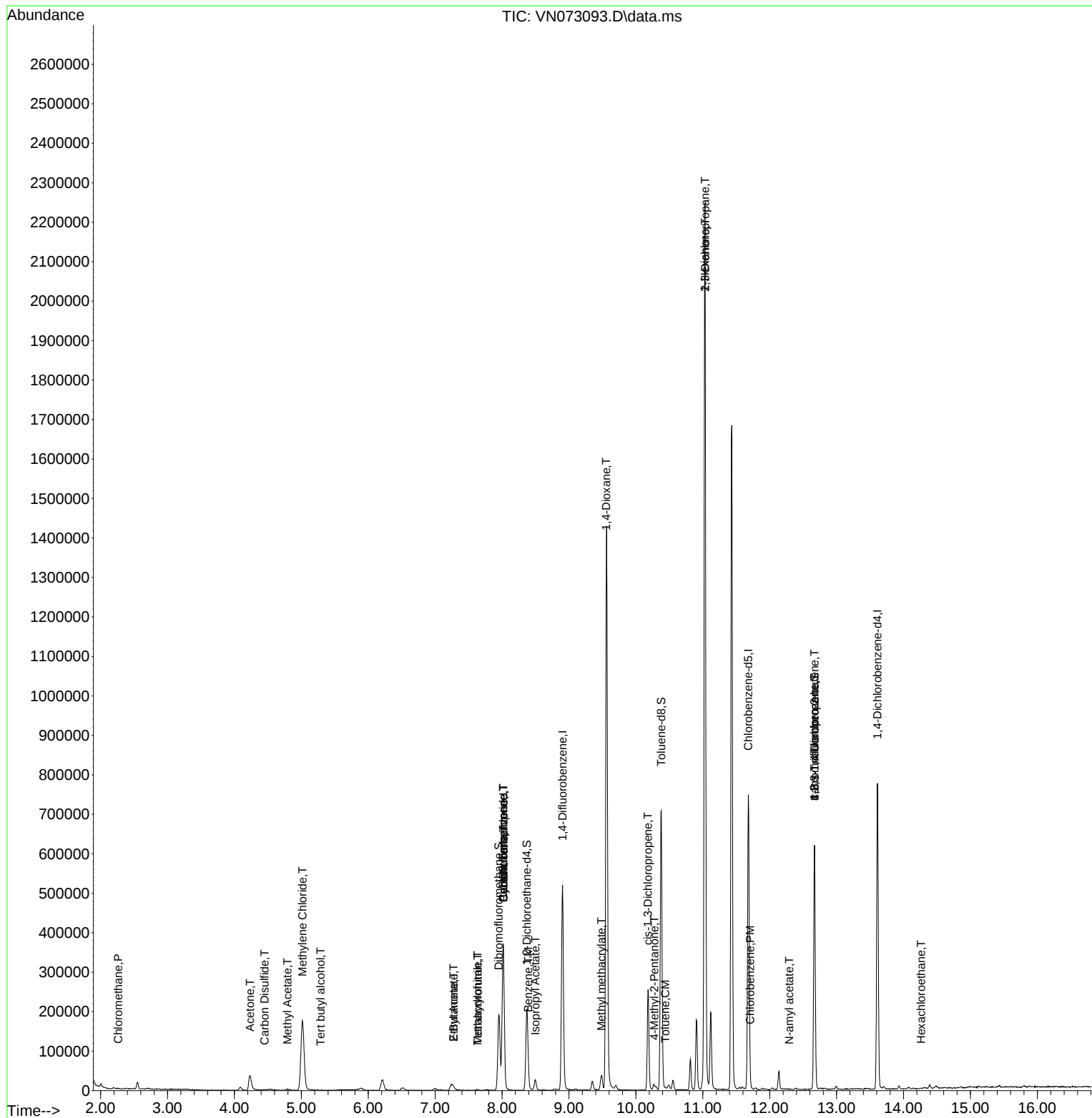
Internal Standards						
1) Pentafluorobenzene	8.022	168	281581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	457838	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	423784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	209304	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	171171	44.963	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.920%
35) Dibromofluoromethane	7.951	113	145665	51.474	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.940%
50) Toluene-d8	10.380	98	484156	45.979	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.960%
62) 4-Bromofluorobenzene	12.669	95	208554	55.079	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	110.160%
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	548	0.757	ug/l #	78
11) Tert butyl alcohol	5.287	59	687	0.699	ug/l #	72
16) Acetone	4.234	43	70336	33.611	ug/l	90
17) Carbon Disulfide	4.451	76	2579	0.373	ug/l #	75
18) Methyl Acetate	4.793	43	6251	1.122	ug/l #	85
20) Methylene Chloride	5.016	84	145643	44.845	ug/l	90
25) 2-Butanone	7.275	43	15327	4.616	ug/l	90
26) 2,2-Dichloropropane	7.239	77	833	Below Cal	#	53
29) Tetrahydrofuran	7.634	42	1230	0.561	ug/l #	47
31) Cyclohexane	8.022	56	6398	1.242	ug/l #	18
36) 1,1-Dichloropropene	8.016	75	23916	6.246	ug/l #	49
37) Ethyl Acetate	7.275	43	15327	2.502	ug/l #	67
38) Carbon Tetrachloride	8.022	117	28524	7.082	ug/l #	17
40) Benzene	8.392	78	4725	0.393	ug/l	96
41) Methacrylonitrile	7.634	41	871	0.300	ug/l #	29
43) Isopropyl Acetate	8.498	43	31348	3.581	ug/l #	86
48) Methyl methacrylate	9.486	41	12341	3.087	ug/l #	22
49) 1,4-Dioxane	9.557	88	69	0.767	ug/l #	1
51) 4-Methyl-2-Pentanone	10.275	43	7943	1.391	ug/l	97
52) Toluene	10.439	92	1856	0.251	ug/l	91
54) cis-1,3-Dichloropropene	10.180	75	44985	9.264	ug/l #	65
57) 1,3-Dichloropropane	11.033	76	23644	4.393	ug/l #	42
59) 2-Hexanone	11.033	43	367838	83.302	ug/l #	44
65) Chlorobenzene	11.710	112	2092	0.253	ug/l #	78
74) N-amyl acetate	12.292	43	2395	0.285	ug/l #	47
76) 1,2,3-Trichloropropane	12.669	75	109629	21.604	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	109629	58.343	ug/l #	10
90) Hexachloroethane	14.263	117	682	0.275	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.615	75	66	Below Cal	#	1

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

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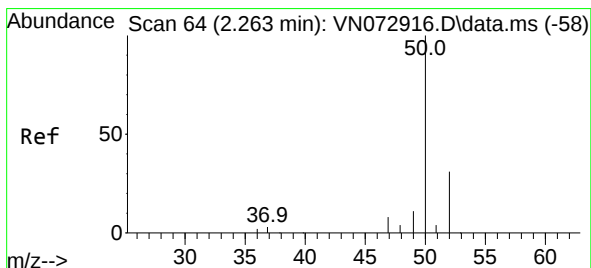
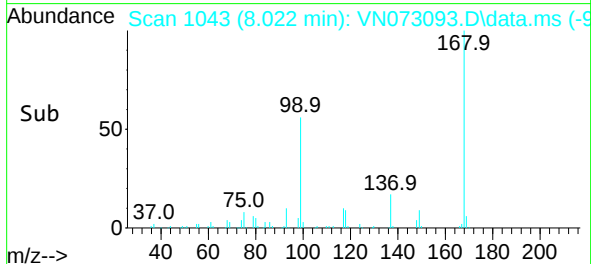
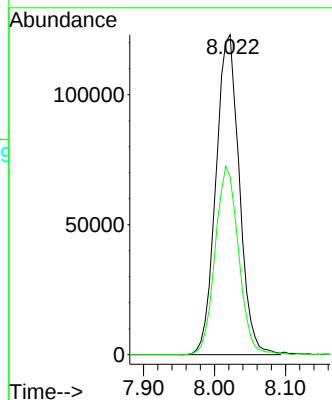
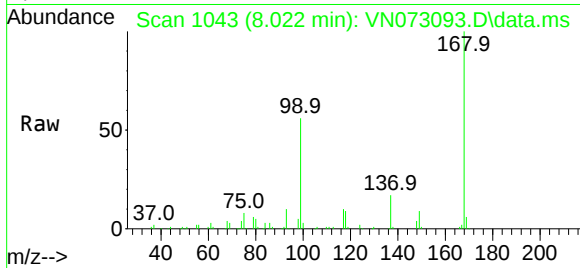




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

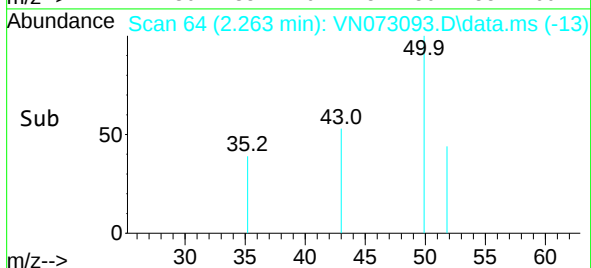
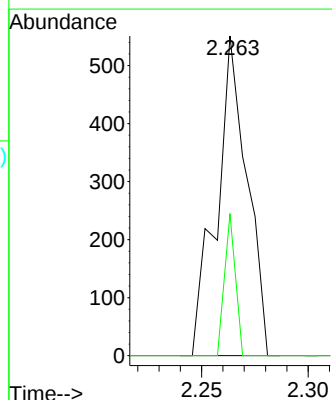
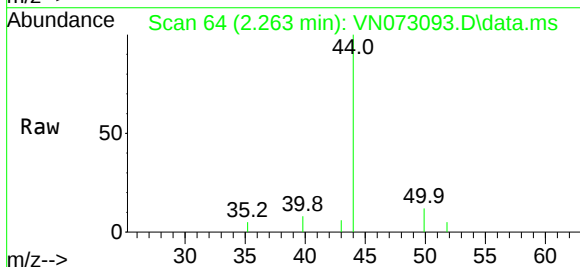
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

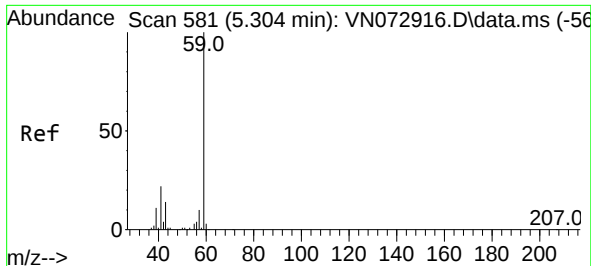
Tgt Ion:168 Resp: 281581
Ion Ratio Lower Upper
168 100
99 55.5 42.3 63.5



#3
Chloromethane
Concen: 0.757 ug/l
RT: 2.263 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 50 Resp: 548
Ion Ratio Lower Upper
50 100
52 44.5 25.7 38.5#





#11

Tert butyl alcohol

Concen: 0.699 ug/l

RT: 5.287 min Scan# 51

Delta R.T. -0.018 min

Lab File: VN073093.D

Acq: 24 Jun 2022 19:25

Instrument :

MSVOA_N

ClientSampleId :

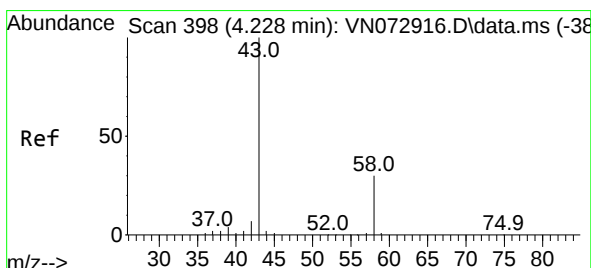
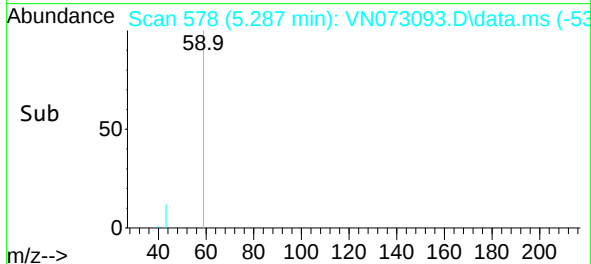
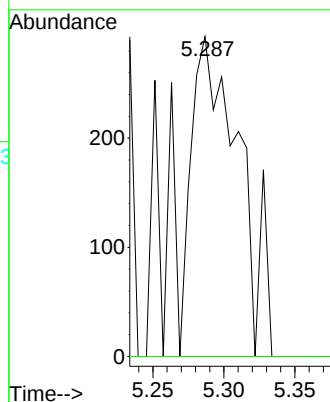
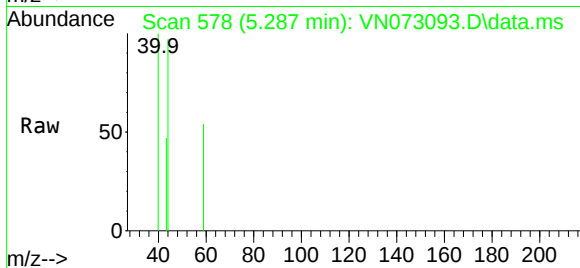
SP-EXC-2-3

Tgt Ion: 59 Resp: 687

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 33.611 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.006 min

Lab File: VN073093.D

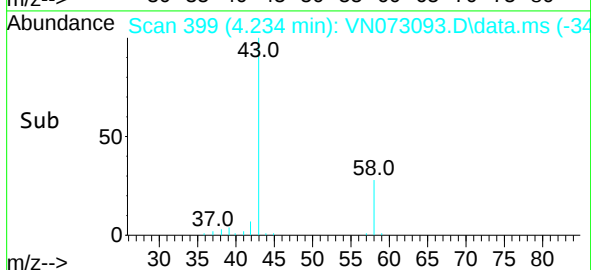
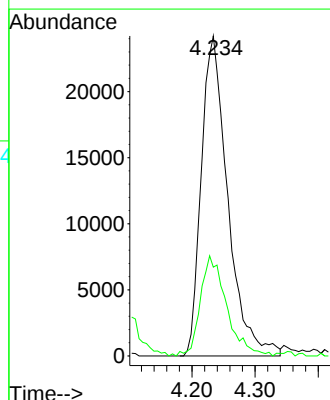
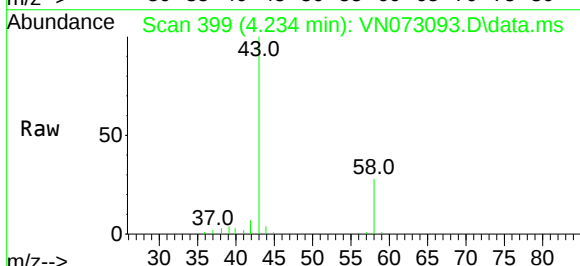
Acq: 24 Jun 2022 19:25

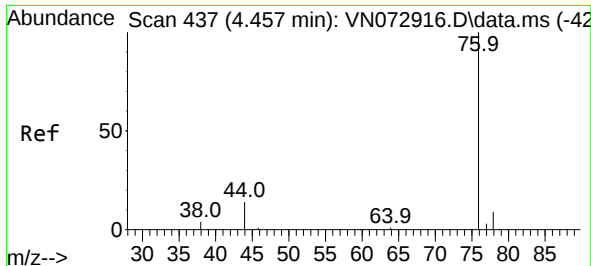
Tgt Ion: 43 Resp: 70336

Ion Ratio Lower Upper

43 100

58 26.9 26.0 39.0

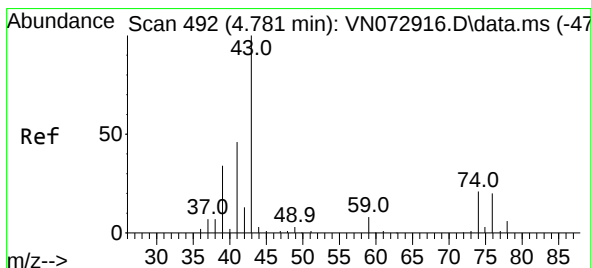
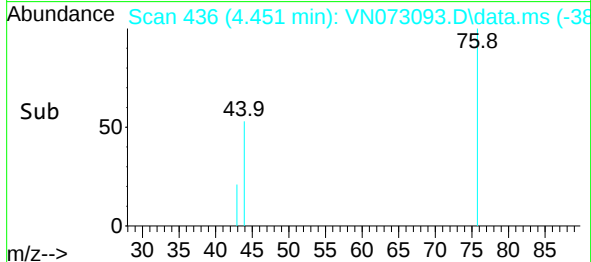
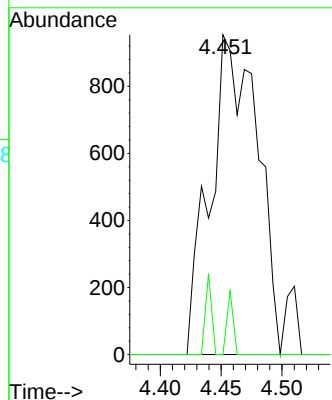
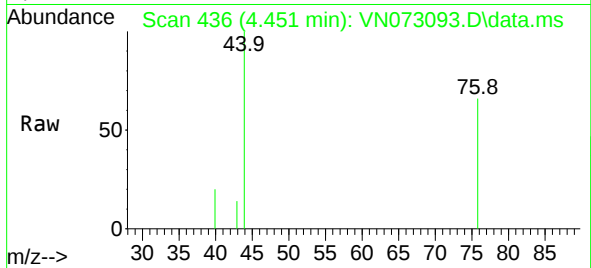




#17
Carbon Disulfide
Concen: 0.373 ug/l
RT: 4.451 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

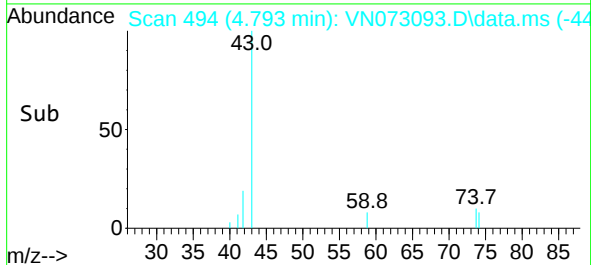
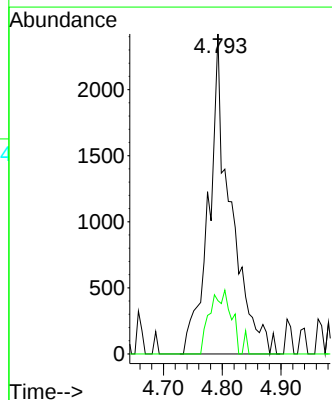
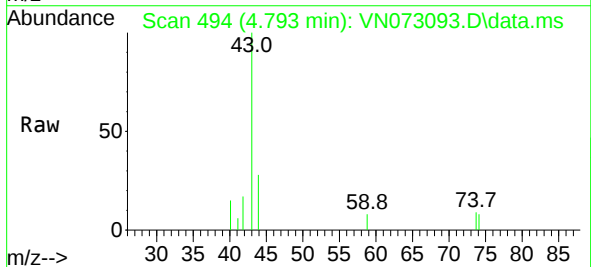
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

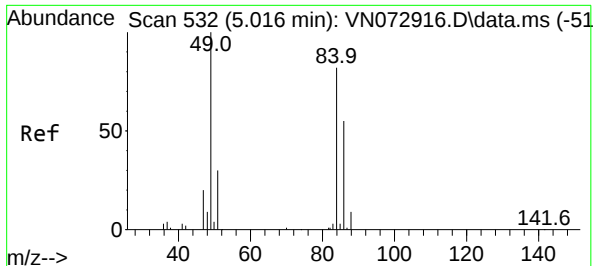
Tgt Ion: 76 Resp: 2579
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 1.122 ug/l
RT: 4.793 min Scan# 494
Delta R.T. 0.012 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 43 Resp: 6251
Ion Ratio Lower Upper
43 100
74 19.2 21.6 32.4#



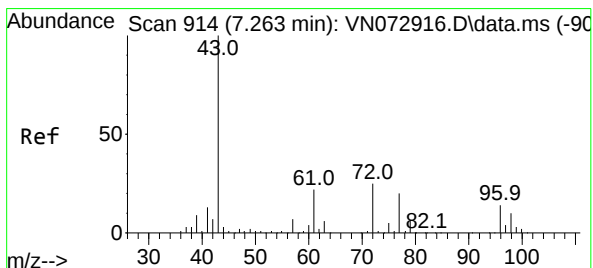
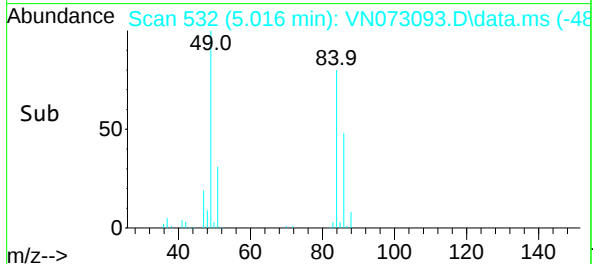
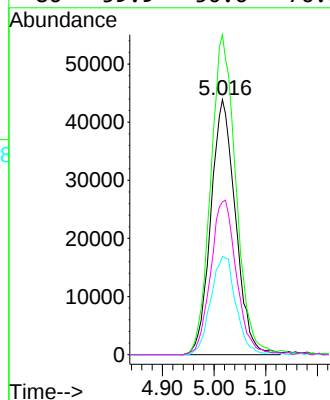
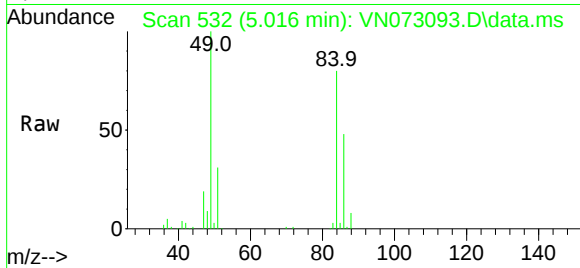


#20
Methylene Chloride
Concen: 44.845 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

Tgt Ion: 84 Resp: 145643

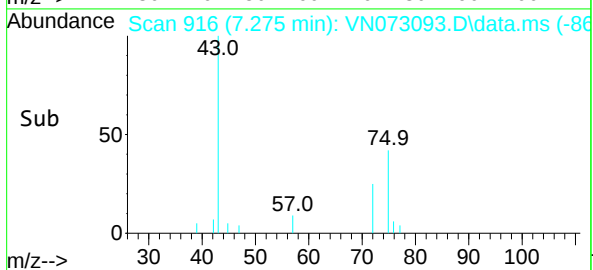
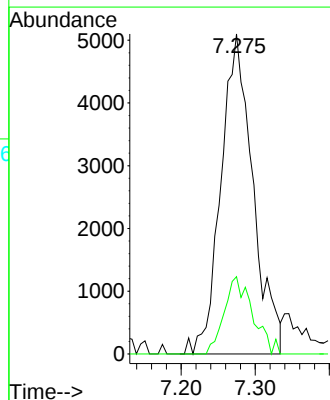
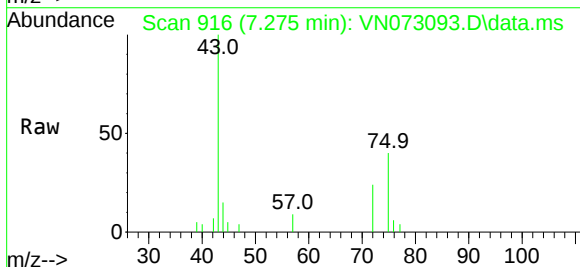
Ion	Ratio	Lower	Upper
84	100		
49	125.4	88.3	132.5
51	38.6	28.2	42.2
86	59.9	50.6	76.0

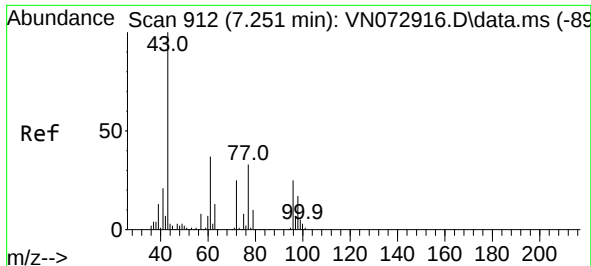


#25
2-Butanone
Concen: 4.616 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.012 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 43 Resp: 15327

Ion	Ratio	Lower	Upper
43	100		
72	24.2	23.7	35.5

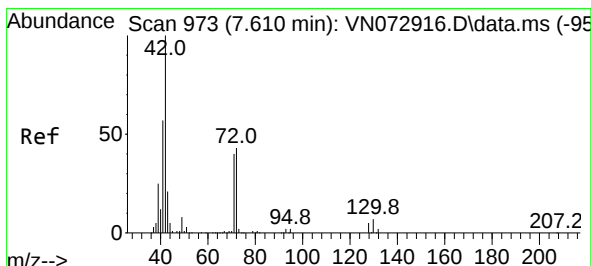
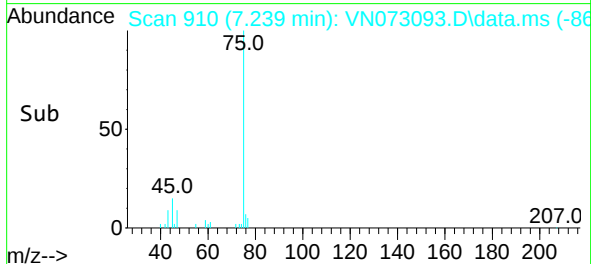
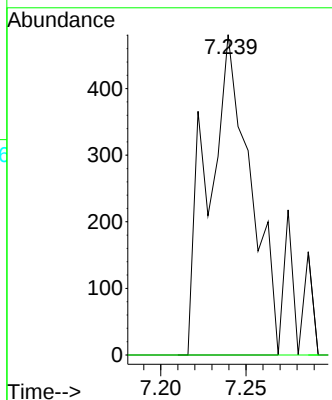
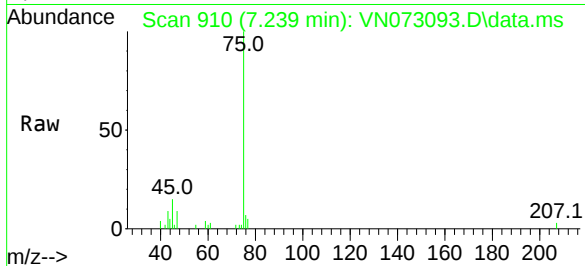




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.239 min Scan# 912
Delta R.T. -0.012 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

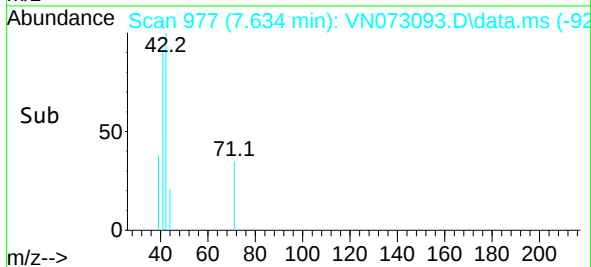
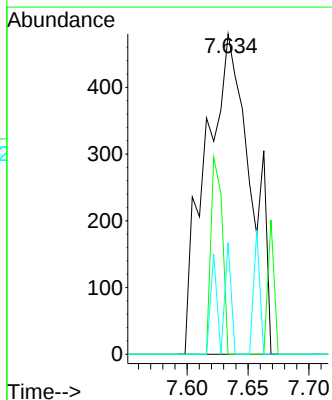
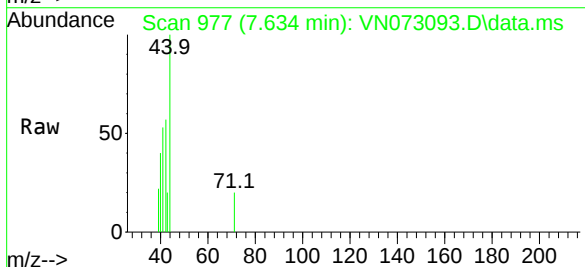
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MSVOA_N
ClientSampleId :
SP-EXC-2-3

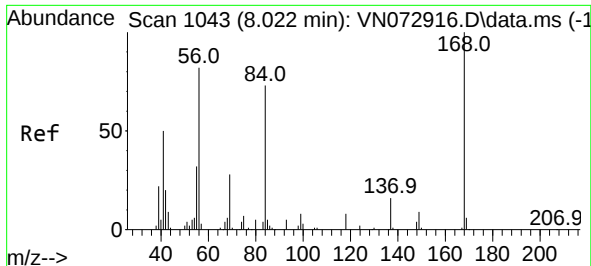
Tgt Ion: 77 Resp: 833
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 0.561 ug/l
RT: 7.634 min Scan# 977
Delta R.T. 0.024 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 42 Resp: 1230
Ion Ratio Lower Upper
42 100
72 15.4 39.7 59.5#
71 9.1 36.6 55.0#

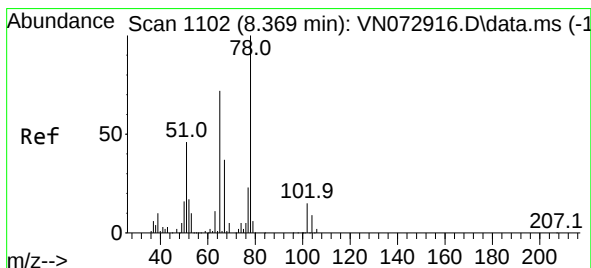
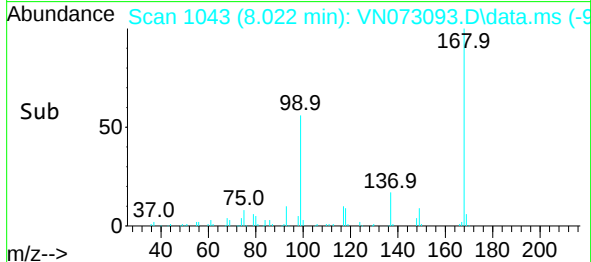
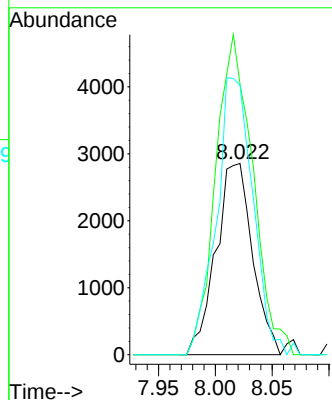
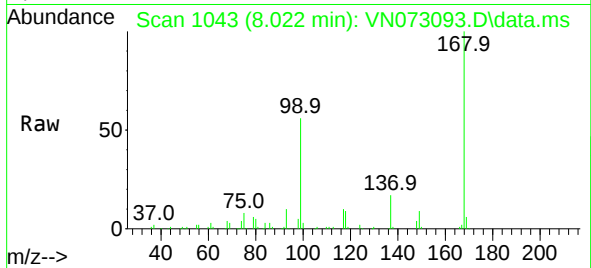




#31
Cyclohexane
Concen: 1.242 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

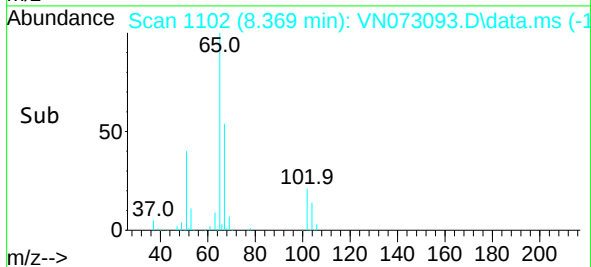
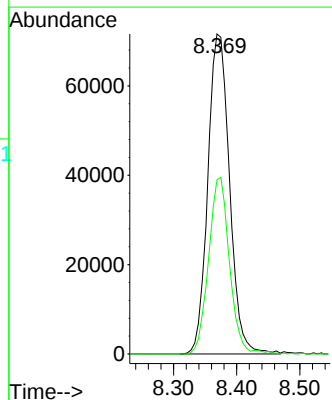
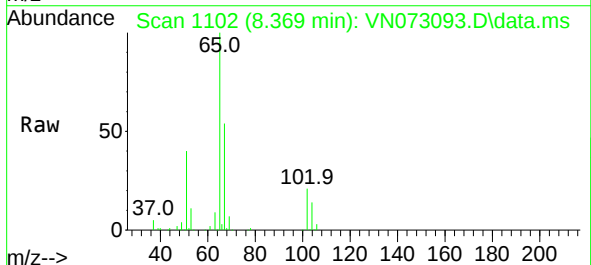
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SP-EXC-2-3

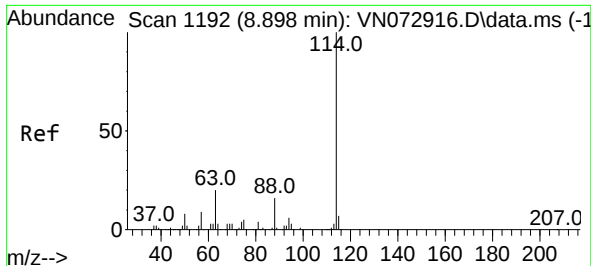
Tgt Ion: 56 Resp: 6398
Ion Ratio Lower Upper
56 100
69 141.3 27.8 41.8#
84 140.7 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 44.963 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 65 Resp: 171171
Ion Ratio Lower Upper
65 100
67 53.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VN073093.D

Acq: 24 Jun 2022 19:25

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-2-3

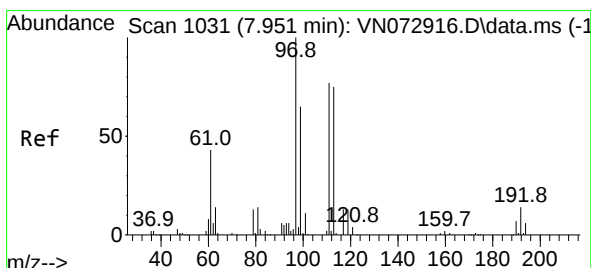
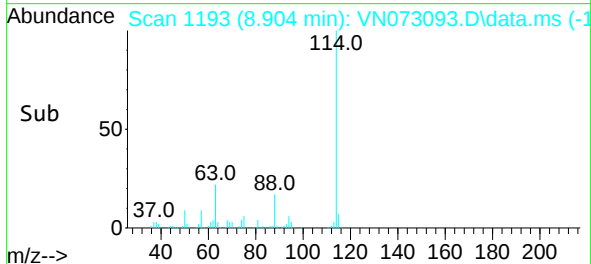
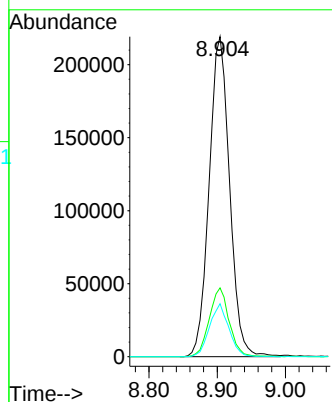
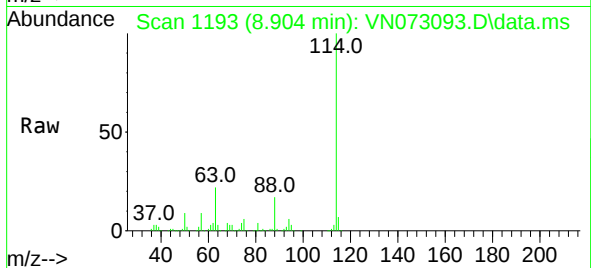
Tgt Ion:114 Resp: 457838

Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.0

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.474 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073093.D

Acq: 24 Jun 2022 19:25

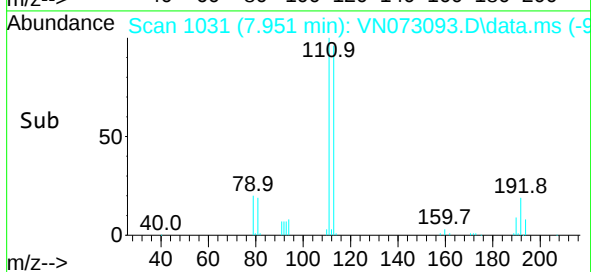
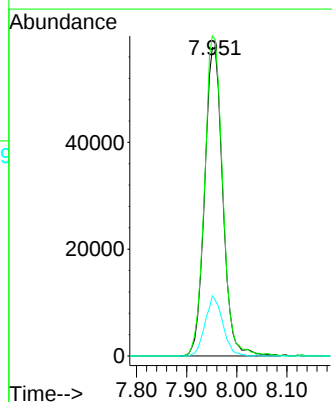
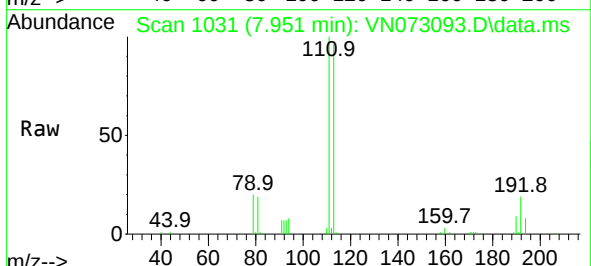
Tgt Ion:113 Resp: 145665

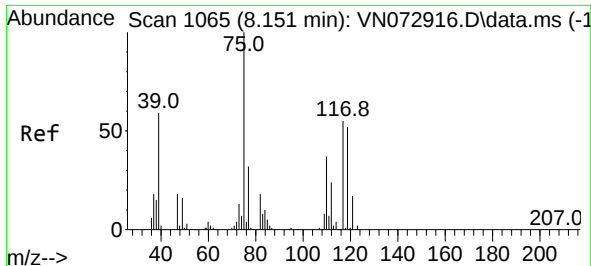
Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.0

192 18.7 17.0 25.6

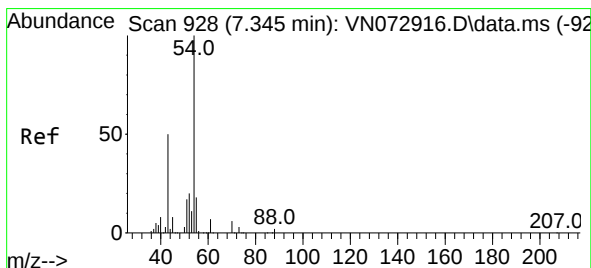
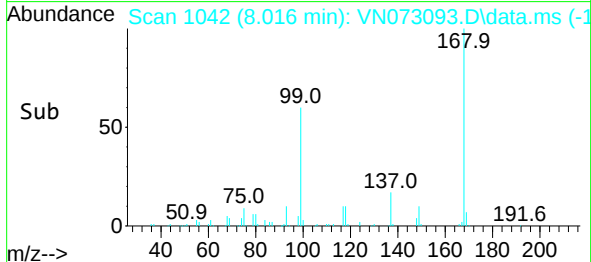
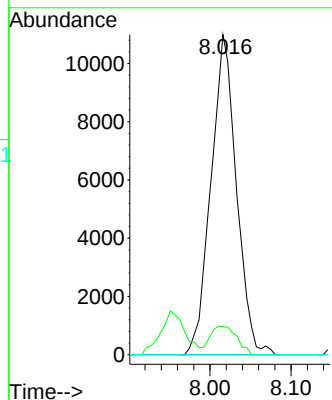
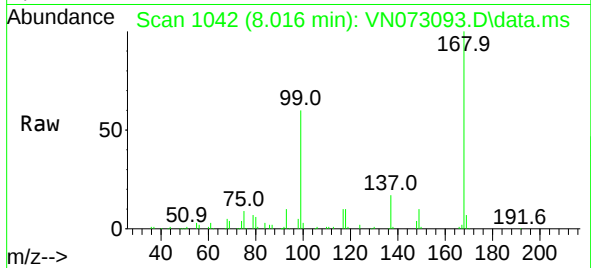




#36
1,1-Dichloropropene
Concen: 6.246 ug/l
RT: 8.016 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

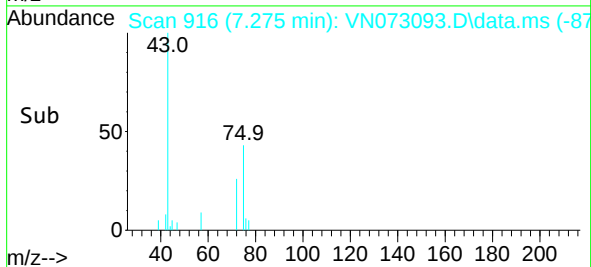
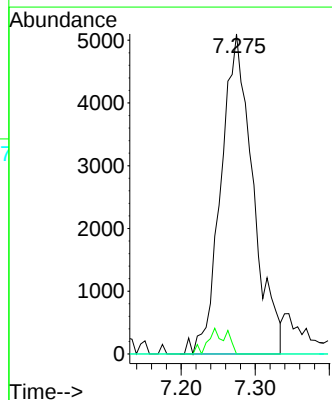
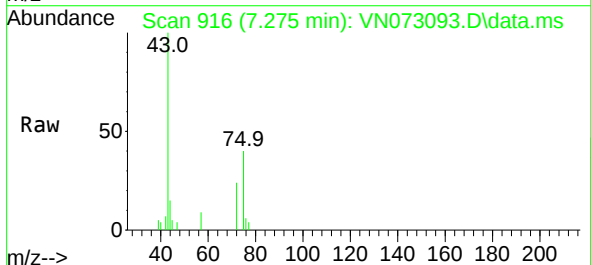
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

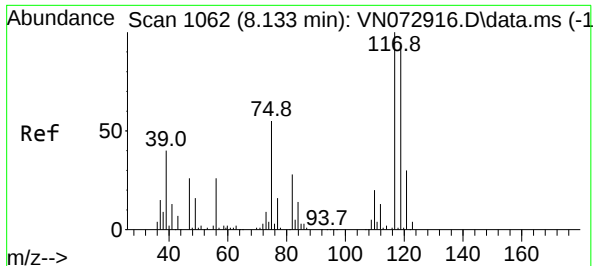
Tgt Ion: 75 Resp: 23916
Ion Ratio Lower Upper
75 100
110 9.5 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 2.502 ug/l
RT: 7.275 min Scan# 916
Delta R.T. -0.070 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 43 Resp: 15327
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#

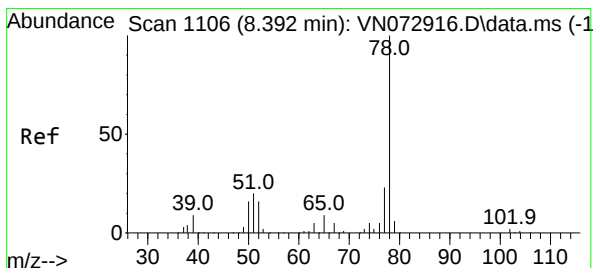
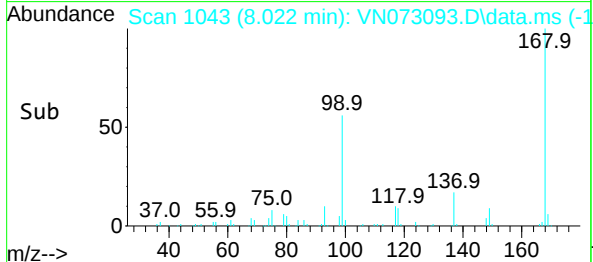
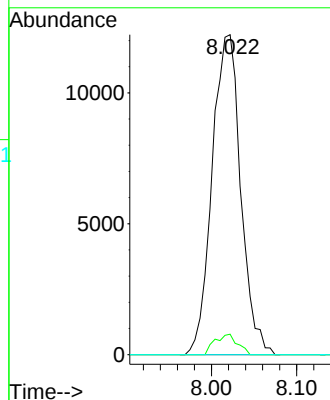
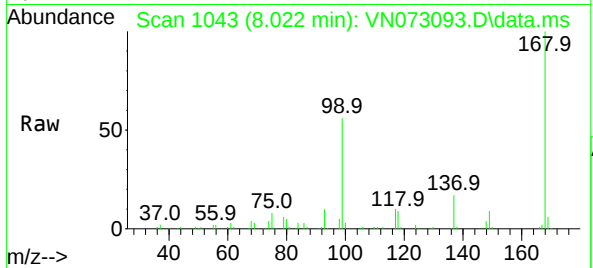




#38
Carbon Tetrachloride
Concen: 7.082 ug/l
RT: 8.022 min Scan# 1106
Delta R.T. -0.112 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

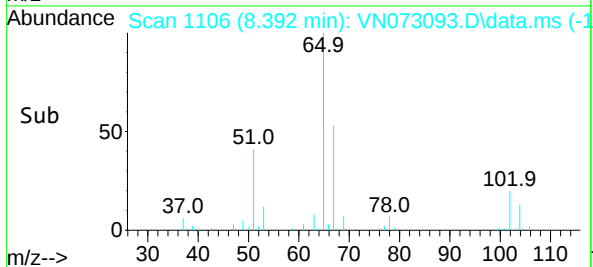
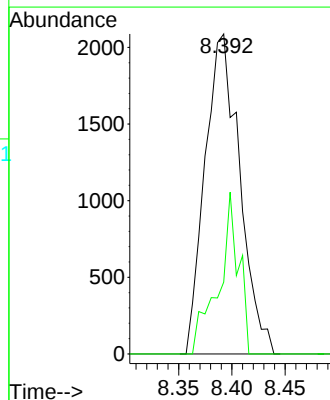
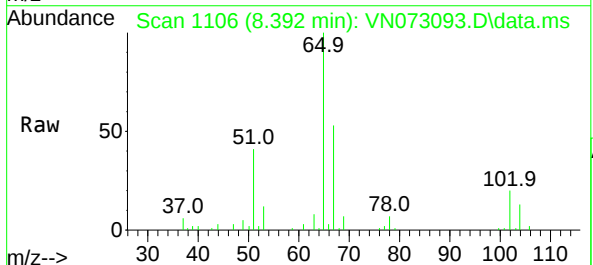
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

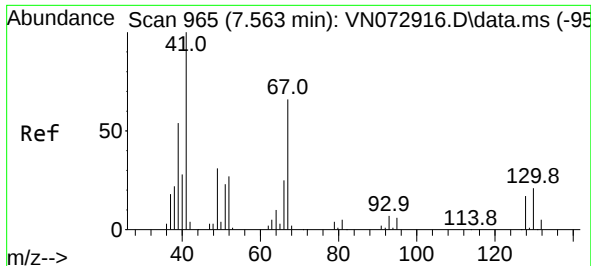
Tgt Ion:117 Resp: 28524
Ion Ratio Lower Upper
117 100
119 6.4 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 0.393 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 78 Resp: 4725
Ion Ratio Lower Upper
78 100
77 22.4 19.4 29.0

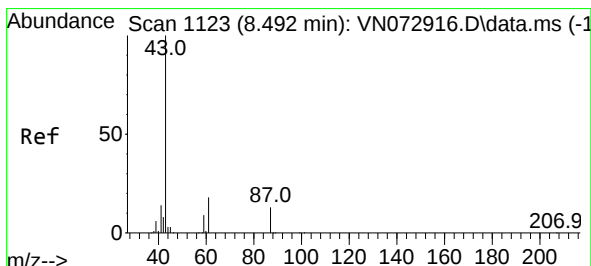
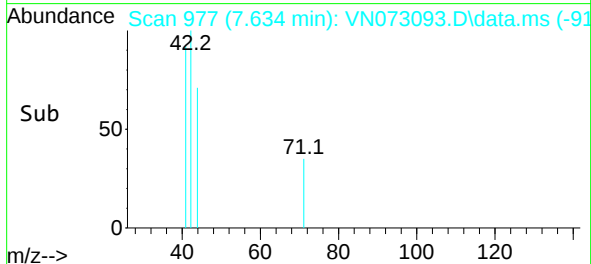
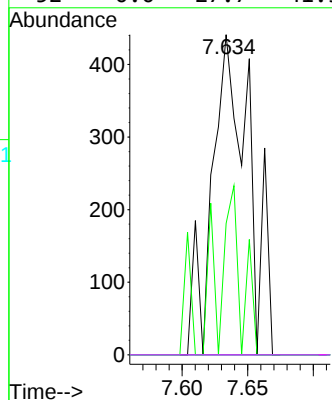
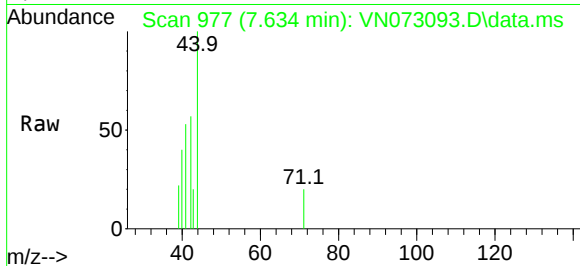




#41
Methacrylonitrile
Concen: 0.300 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.071 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

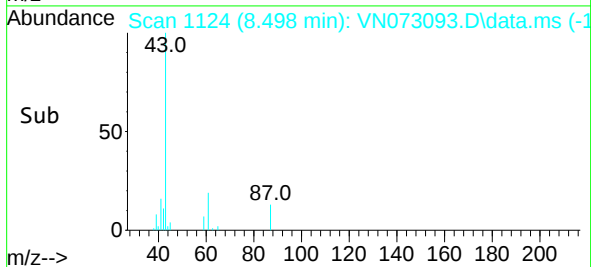
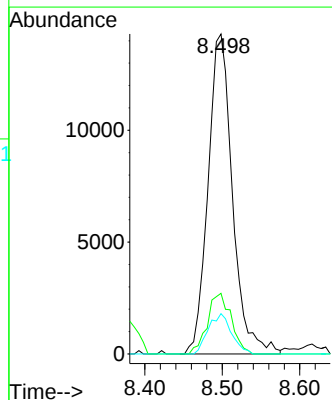
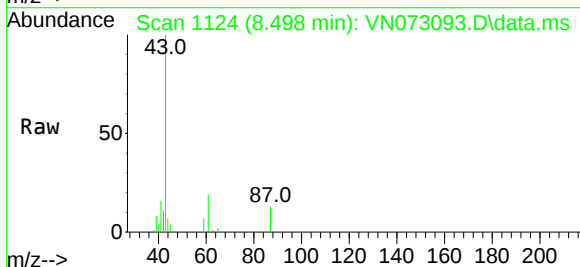
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

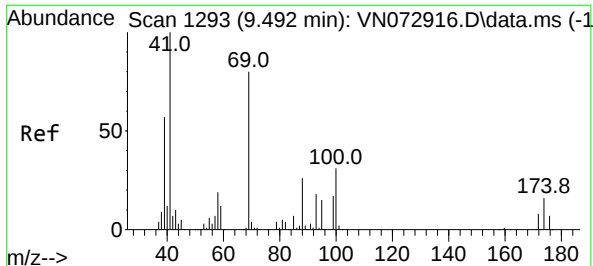
Tgt Ion:	41	Resp:	871
Ion	Ratio	Lower	Upper
41	100		
39	31.7	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#43
Isopropyl Acetate
Concen: 3.581 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion:	43	Resp:	31348
Ion	Ratio	Lower	Upper
43	100		
61	18.5	21.9	32.9#
87	12.0	12.0	18.0#





#48

Methyl methacrylate

Concen: 3.087 ug/l

RT: 9.486 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN073093.D

Acq: 24 Jun 2022 19:25

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-2-3

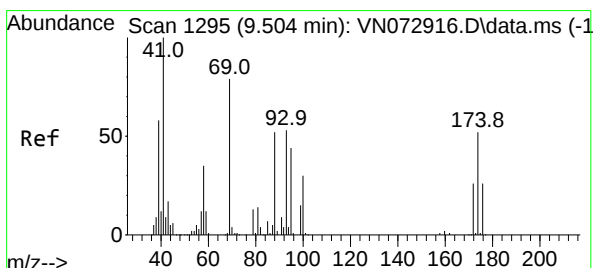
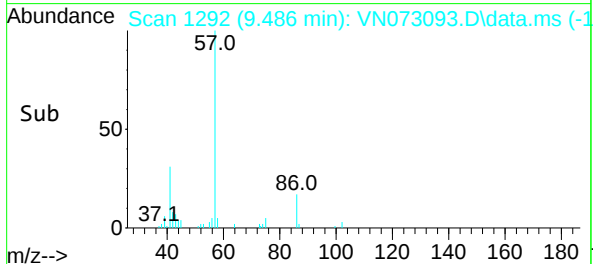
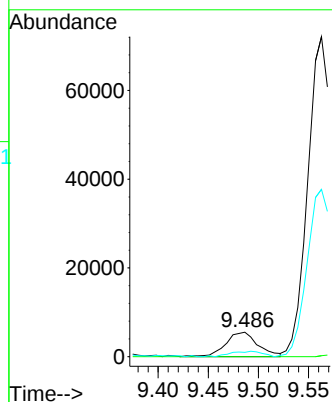
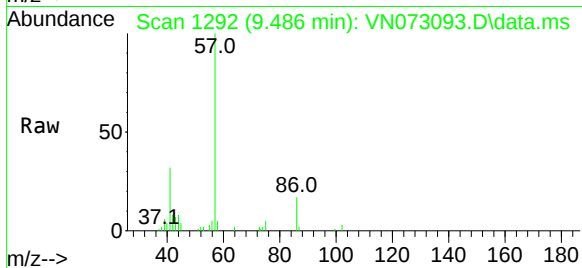
Tgt Ion: 41 Resp: 12341

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 21.8 45.6 68.4#



#49

1,4-Dioxane

Concen: 0.767 ug/l

RT: 9.557 min Scan# 1304

Delta R.T. 0.053 min

Lab File: VN073093.D

Acq: 24 Jun 2022 19:25

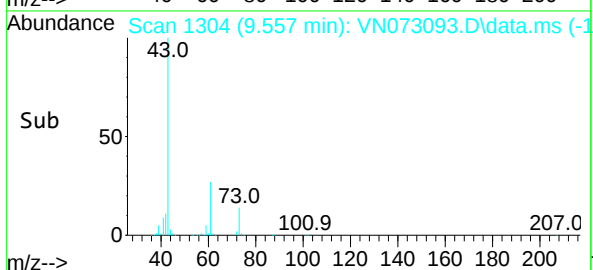
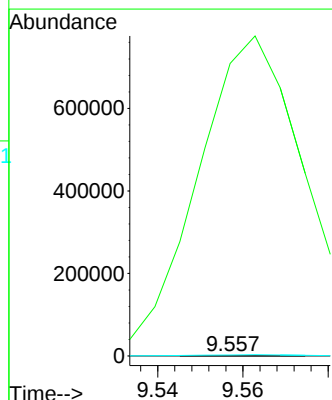
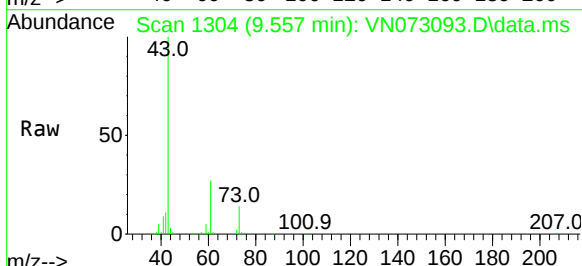
Tgt Ion: 88 Resp: 69

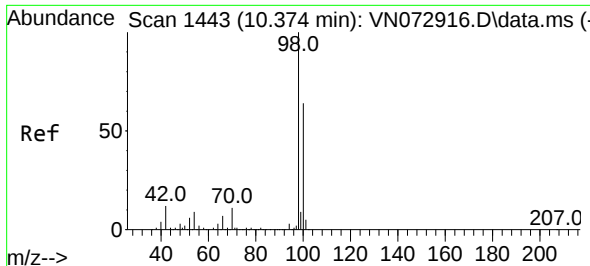
Ion Ratio Lower Upper

88 100

43 2068587.0 20.2 30.4#

58 8144.9 54.2 81.4#

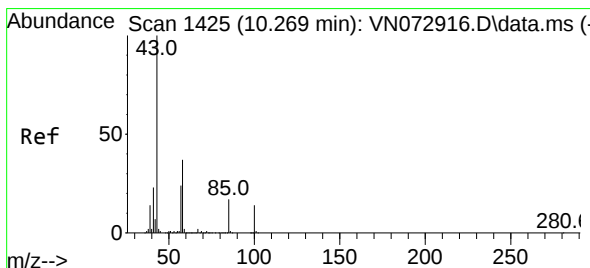
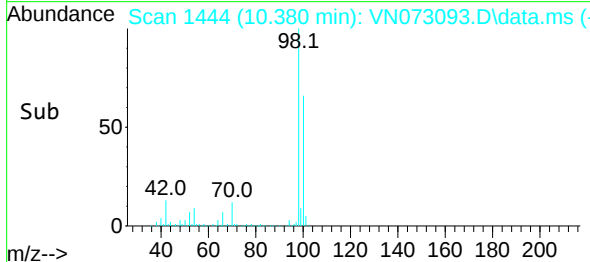
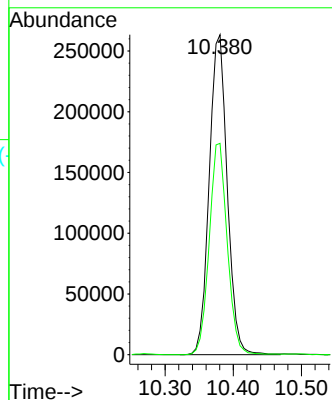
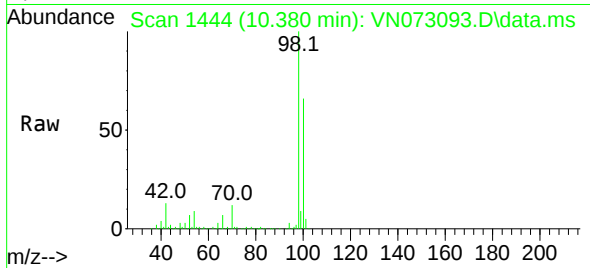




#50
Toluene-d8
Concen: 45.979 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

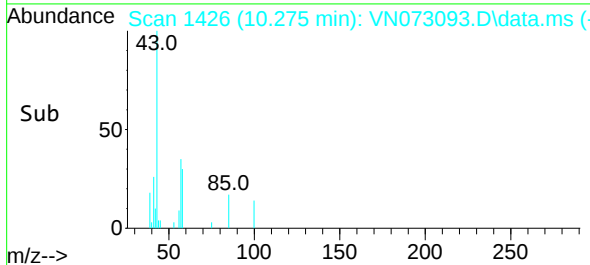
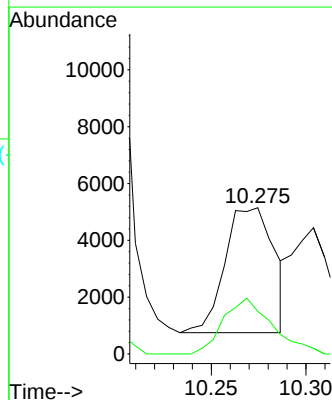
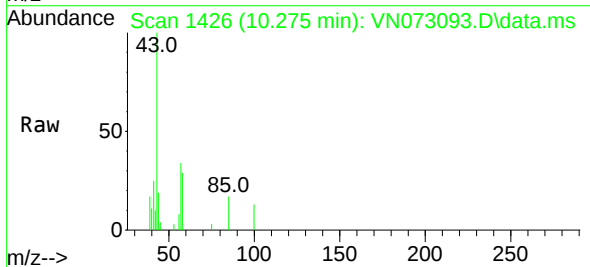
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

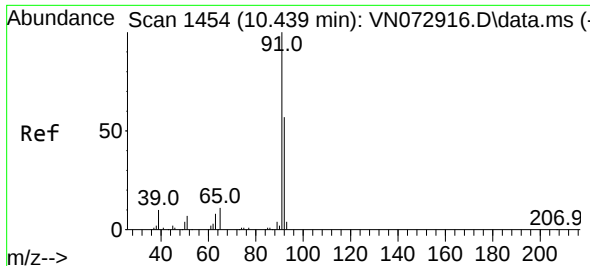
Tgt Ion: 98 Resp: 484156
Ion Ratio Lower Upper
98 100
100 66.2 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.391 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 43 Resp: 7943
Ion Ratio Lower Upper
43 100
58 44.6 34.1 51.1

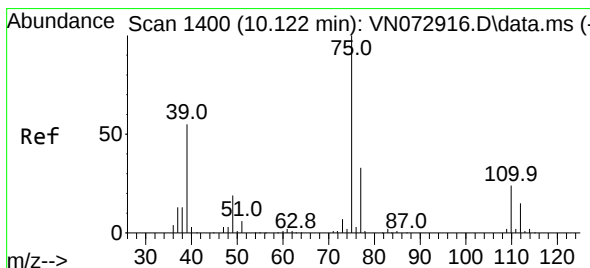
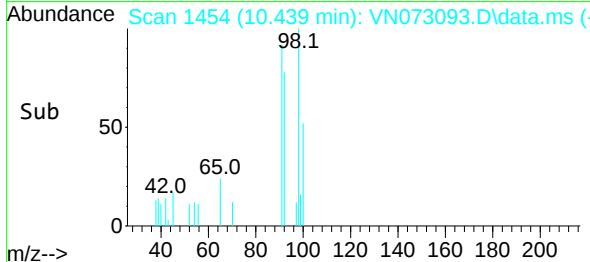
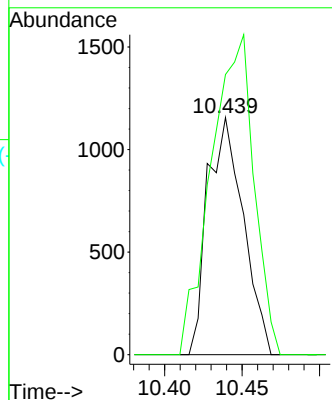
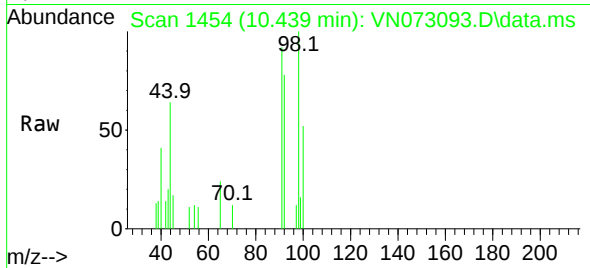




#52
Toluene
Concen: 0.251 ug/l
RT: 10.439 min Scan# 1410
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

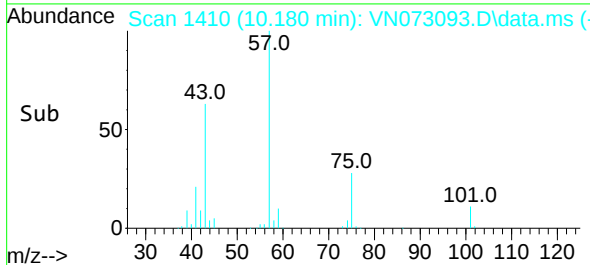
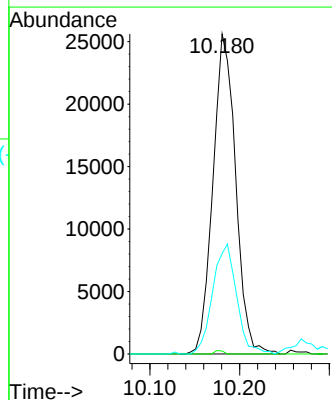
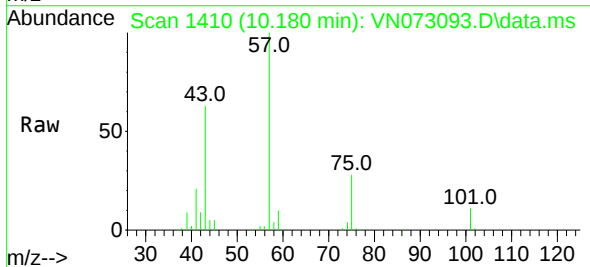
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

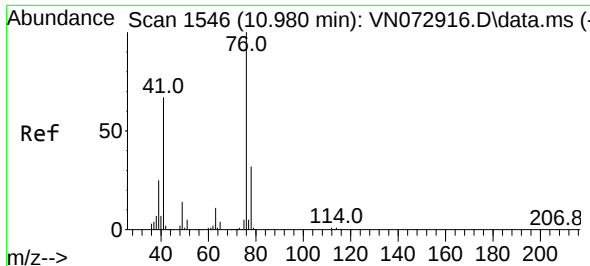
Tgt Ion: 92 Resp: 1856
Ion Ratio Lower Upper
92 100
91 161.1 138.6 207.8



#54
cis-1,3-Dichloropropene
Concen: 9.264 ug/l
RT: 10.180 min Scan# 1410
Delta R.T. 0.059 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 75 Resp: 44985
Ion Ratio Lower Upper
75 100
77 0.9 25.2 37.8#
39 31.3 35.7 53.5#

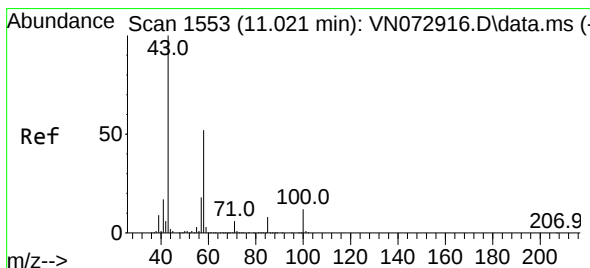
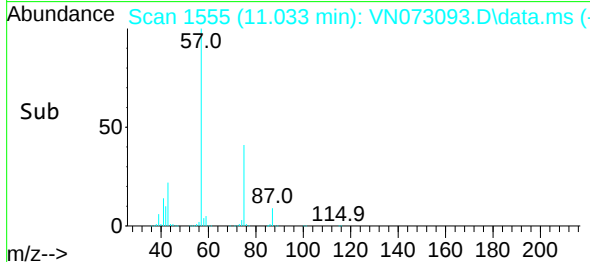
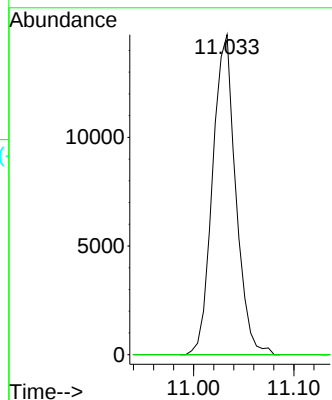
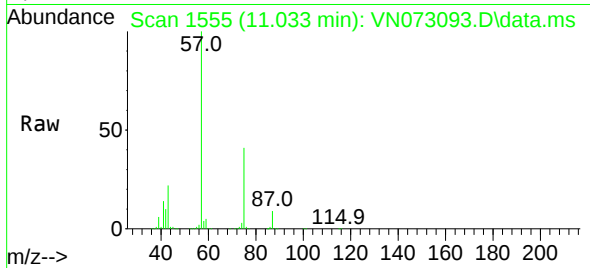




#57
1,3-Dichloropropane
Concen: 4.393 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.053 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

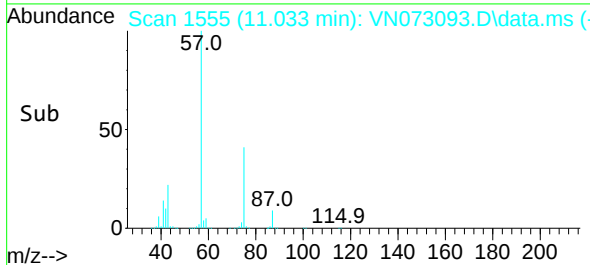
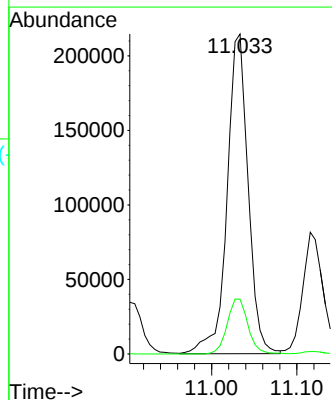
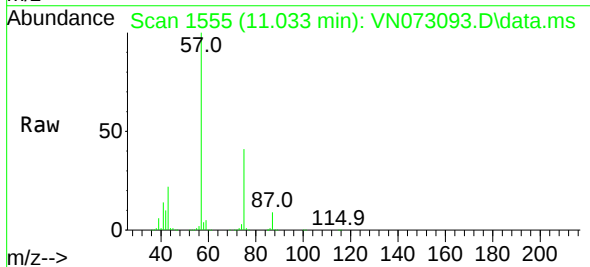
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

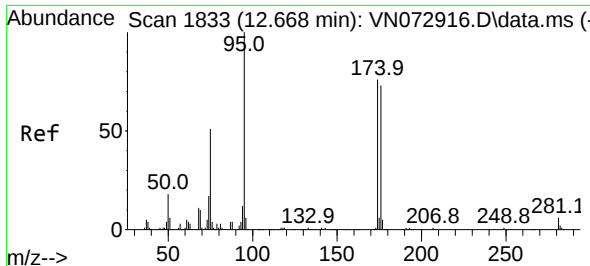
Tgt Ion: 76 Resp: 23644
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#



#59
2-Hexanone
Concen: 83.302 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.012 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 43 Resp: 367838
Ion Ratio Lower Upper
43 100
58 17.0 29.7 89.1#

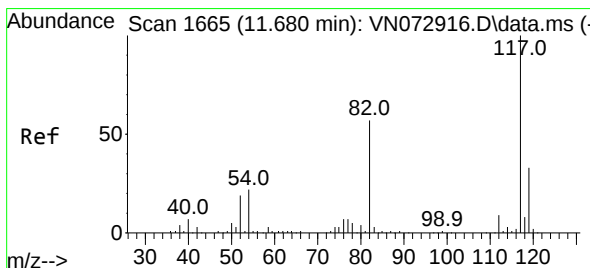
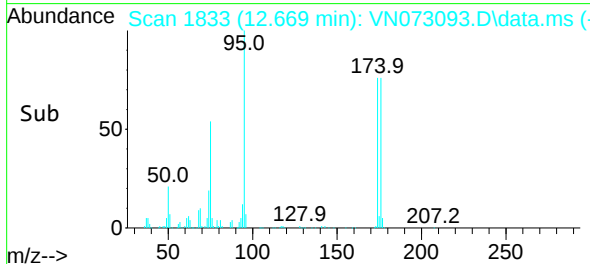
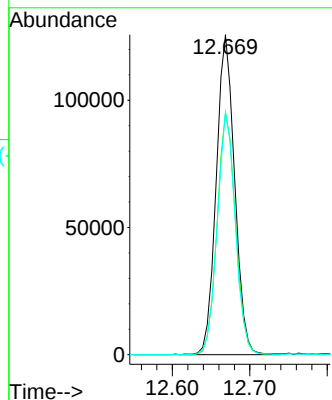
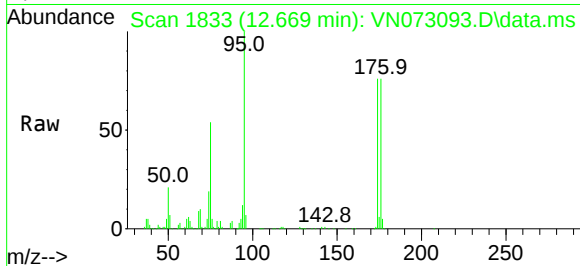




#62
4-Bromofluorobenzene
Concen: 55.079 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

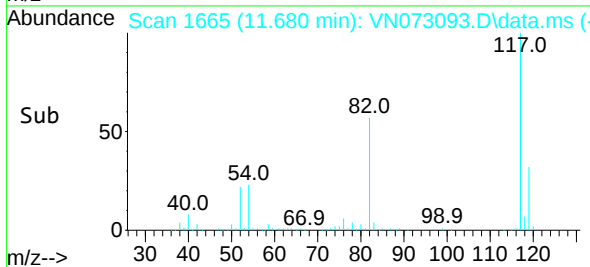
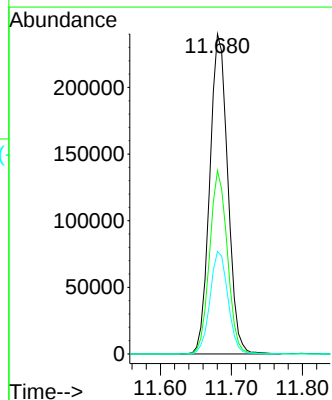
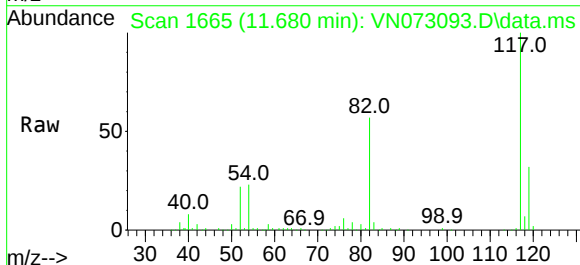
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

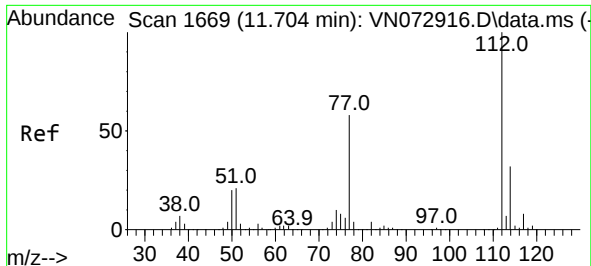
Tgt Ion: 95 Resp: 208554
Ion Ratio Lower Upper
95 100
174 75.4 0.0 167.6
176 74.0 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 117 Resp: 423784
Ion Ratio Lower Upper
117 100
82 57.3 44.2 66.2
119 32.0 25.4 38.0

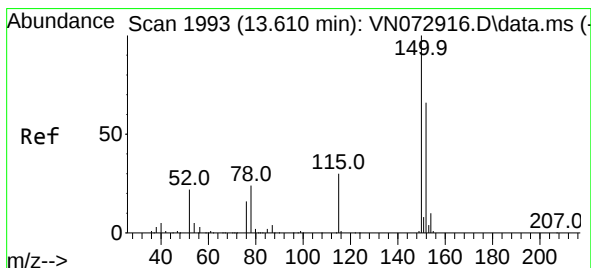
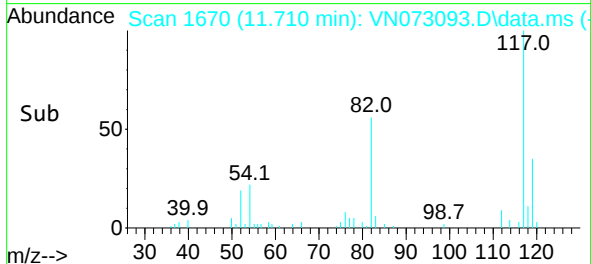
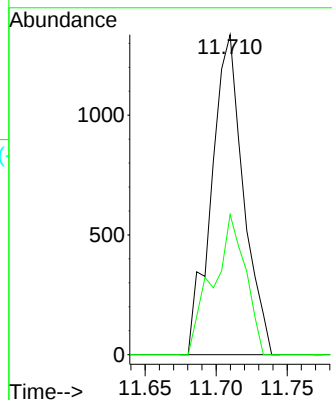
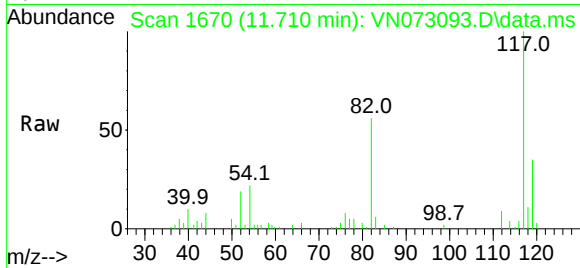




#65
Chlorobenzene
Concen: 0.253 ug/l
RT: 11.710 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

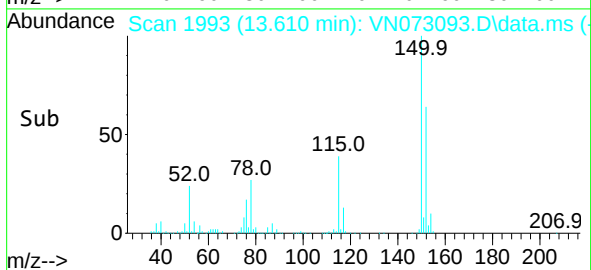
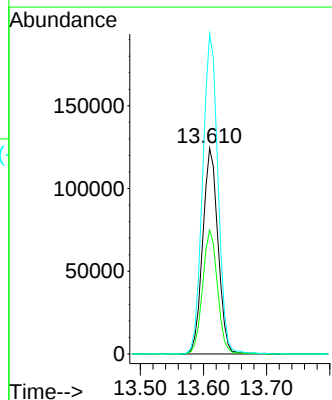
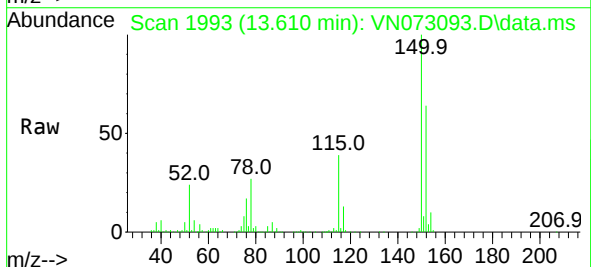
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

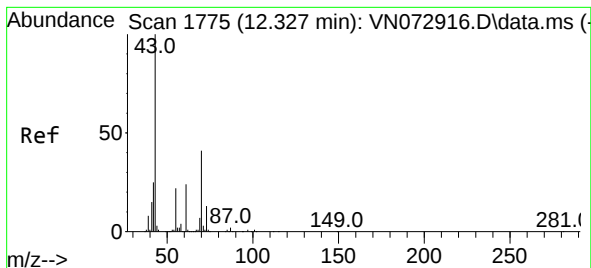
Tgt Ion:112 Resp: 2092
Ion Ratio Lower Upper
112 100
114 43.8 25.4 38.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion:152 Resp: 209304
Ion Ratio Lower Upper
152 100
115 58.6 28.9 86.7
150 156.1 0.0 356.2

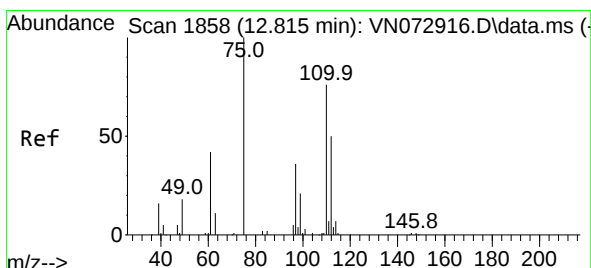
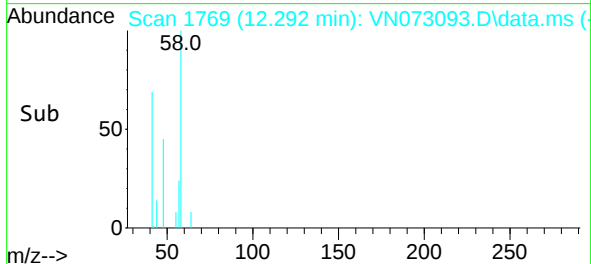
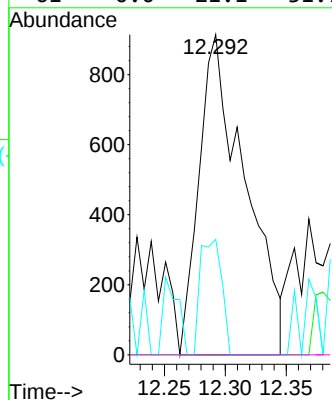
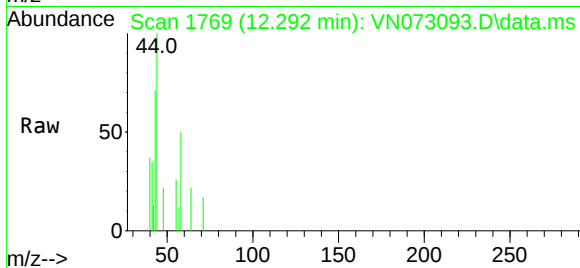




#74
N-amy1 acetate
Concen: 0.285 ug/l
RT: 12.292 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

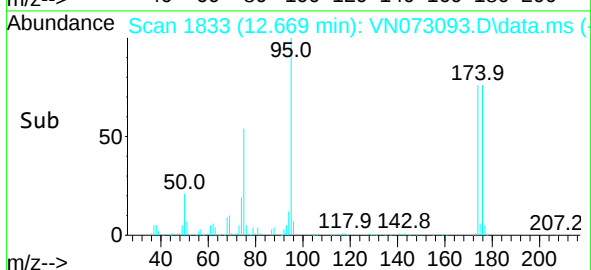
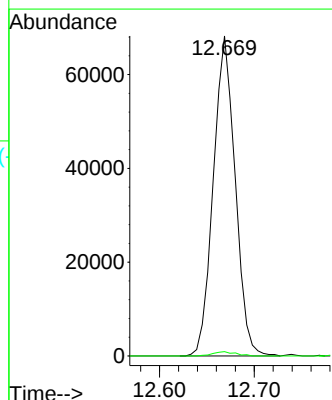
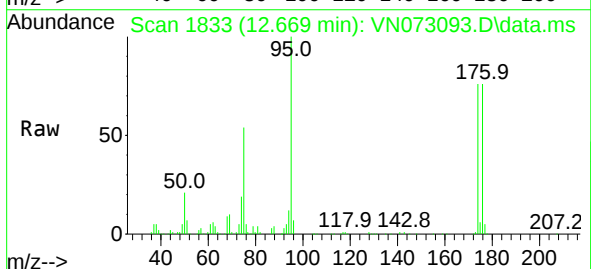
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

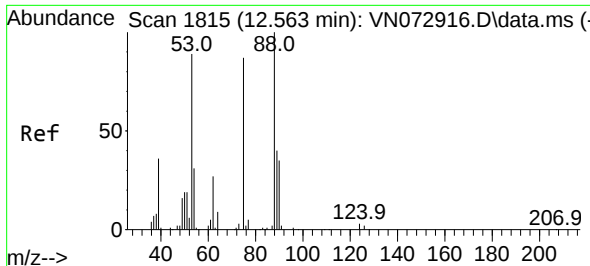
Tgt Ion: 43	Resp: 2395
Ion Ratio	Lower Upper
43 100	
70 0.0	39.0 58.4#
55 16.9	21.1 31.7#
61 0.0	21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 21.604 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.147 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 75	Resp: 109629
Ion Ratio	Lower Upper
75 100	
77 1.4	98.5 295.5#

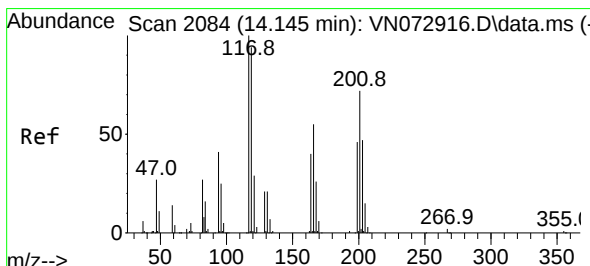
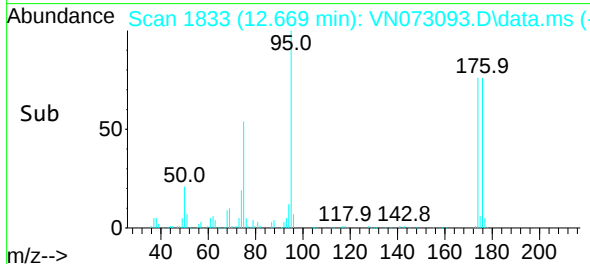
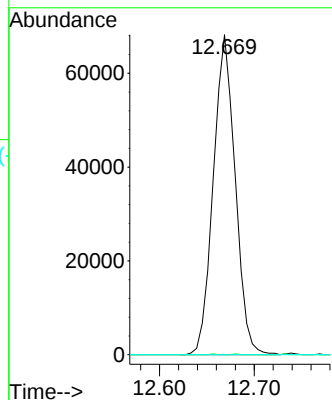
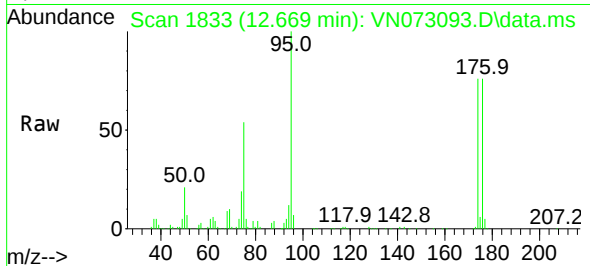




#81
trans-1,4-Dichloro-2-butene
Concen: 58.343 ug/l
RT: 12.669 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-2-3

Tgt Ion: 75 Resp: 109629
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#



#90
Hexachloroethane
Concen: 0.275 ug/l
RT: 14.263 min Scan# 2104
Delta R.T. 0.118 min
Lab File: VN073093.D
Acq: 24 Jun 2022 19:25

Tgt Ion: 117 Resp: 682
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#

