

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083022\
 Data File : VN074199.D
 Acq On : 31 Aug 2022 05:28
 Operator : JC\MD
 Sample : N4421-15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-PALM-SP-03-GR

Quant Time: Aug 31 07:12:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

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

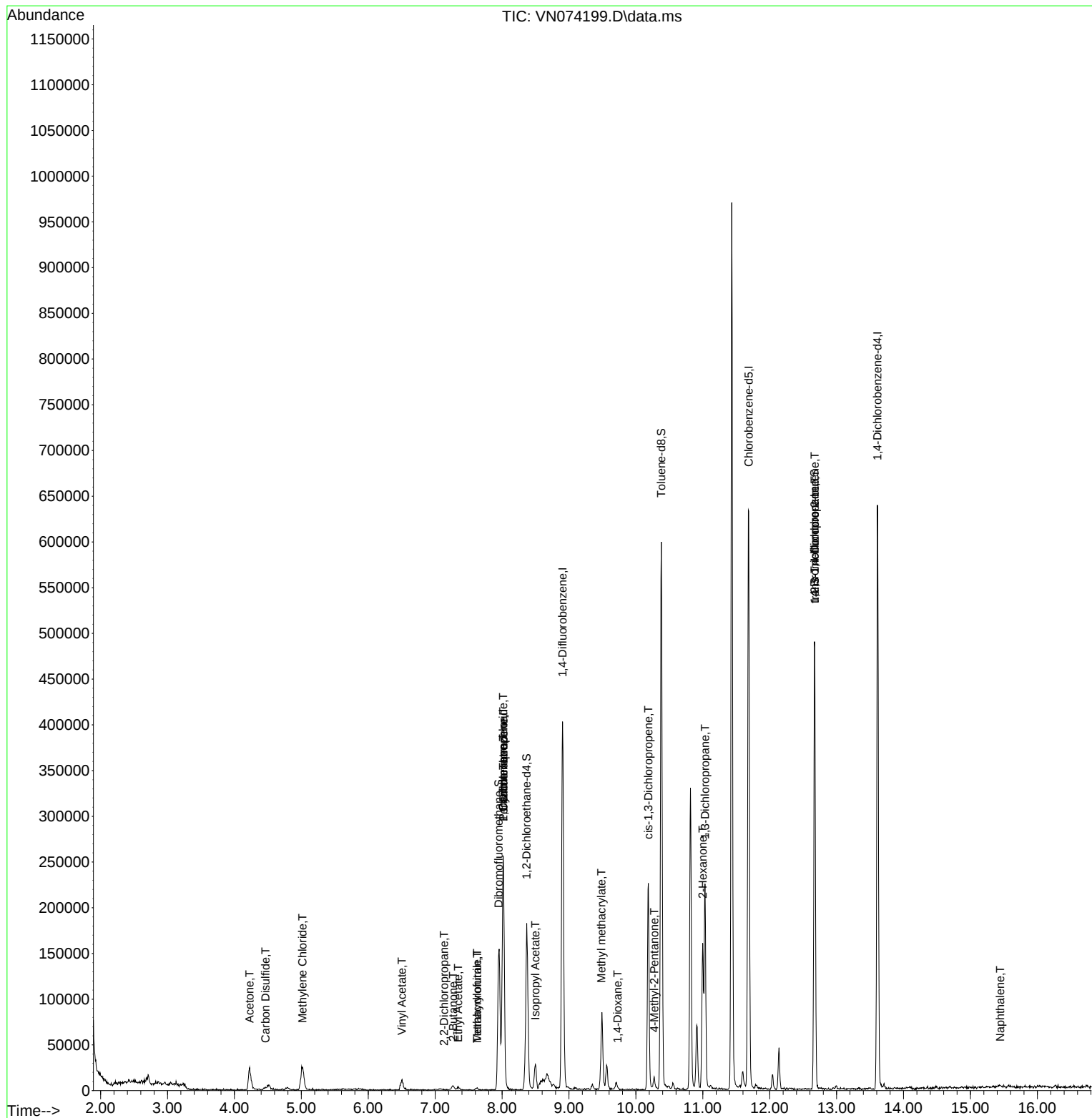
Internal Standards						
1) Pentafluorobenzene	8.022	168	176249	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	330680	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	343099	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.609	152	156034	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	137431	50.266	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.540%			
35) Dibromofluoromethane	7.951	113	113400	52.700	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.400%			
50) Toluene-d8	10.380	98	382136	45.095	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.180%			
62) 4-Bromofluorobenzene	12.668	95	150744	58.496	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.000%			
Target Compounds					Qvalue	
6) Chloroethane	2.957	64	122	Below Cal	#	42
11) Tert butyl alcohol	5.298	59	343	Below Cal	#	72
16) Acetone	4.228	43	43477	23.798	ug/l #	83
17) Carbon Disulfide	4.463	76	4645	0.790	ug/l #	75
18) Methyl Acetate	4.787	43	5527	Below Cal	#	70
20) Methylene Chloride	5.016	84	19008	5.807	ug/l	95
23) Vinyl Acetate	6.504	43	2544	0.321	ug/l #	68
25) 2-Butanone	7.269	43	8169	2.795	ug/l	97
26) 2,2-Dichloropropane	7.133	77	55	0.286	ug/l #	53
29) Tetrahydrofuran	7.628	42	1541	0.828	ug/l #	56
31) Cyclohexane	8.016	56	5798	1.283	ug/l #	28
36) 1,1-Dichloropropene	8.022	75	16475	4.719	ug/l #	45
37) Ethyl Acetate	7.345	43	5073	0.869	ug/l #	83
38) Carbon Tetrachloride	8.016	117	19438	6.130	ug/l #	12
41) Methacrylonitrile	7.628	41	1241	0.460	ug/l #	27
43) Isopropyl Acetate	8.498	43	32562	4.148	ug/l #	83
48) Methyl methacrylate	9.486	41	4255	1.141	ug/l #	29
49) 1,4-Dioxane	9.727	88	154	1.914	ug/l #	1
51) 4-Methyl-2-Pentanone	10.274	43	12089	2.122	ug/l #	76
54) cis-1,3-Dichloropropene	10.186	75	35783	8.702	ug/l #	77
57) 1,3-Dichloropropane	11.033	76	2279	0.469	ug/l #	42
59) 2-Hexanone	10.998	43	164267	37.997	ug/l #	21
76) 1,2,3-Trichloropropane	12.674	75	87467	22.341	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	87467	58.185	ug/l #	10
95) Naphthalene	15.445	128	686	1.208	ug/l #	80

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

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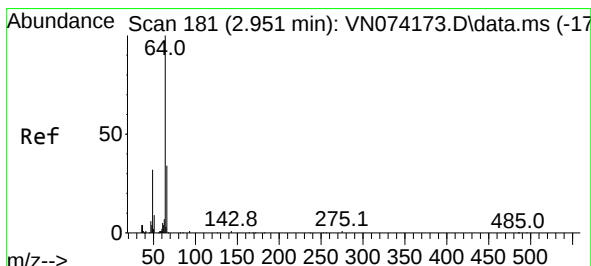
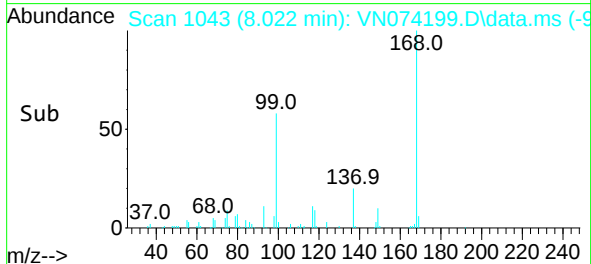
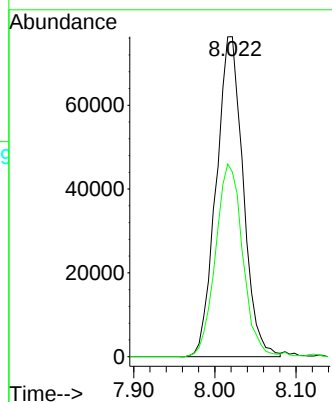
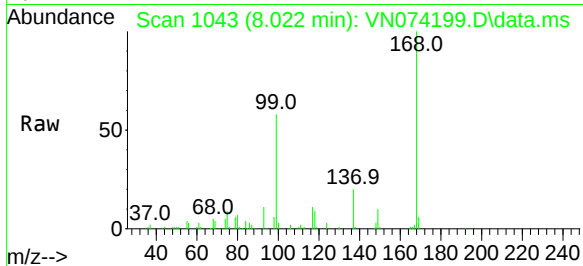




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

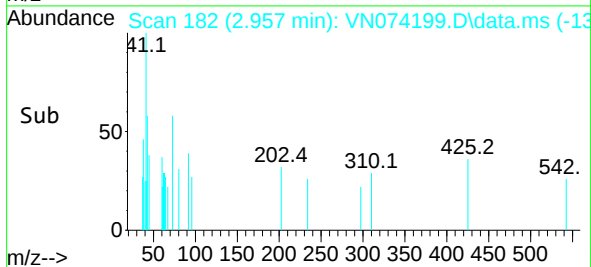
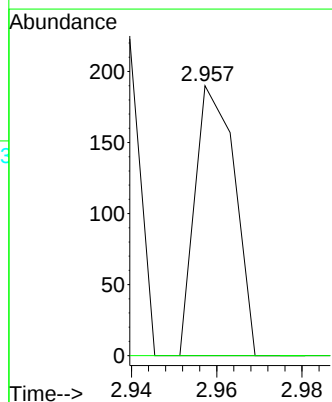
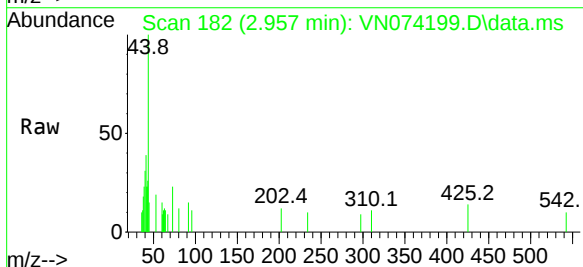
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

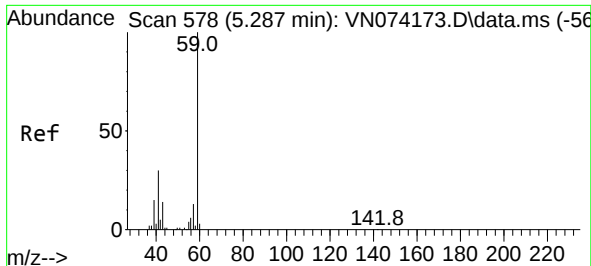
Tgt Ion:168 Resp: 176249
Ion Ratio Lower Upper
168 100
99 57.7 42.3 63.5



#6
Chloroethane
Concen: Below Cal
RT: 2.957 min Scan# 182
Delta R.T. 0.006 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion: 64 Resp: 122
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.298 min Scan# 51

Delta R.T. 0.011 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

Instrument :

MSVOA_N

ClientSampleId :

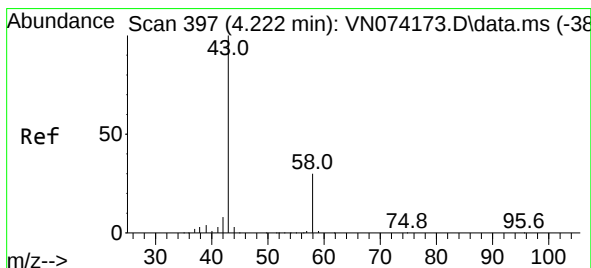
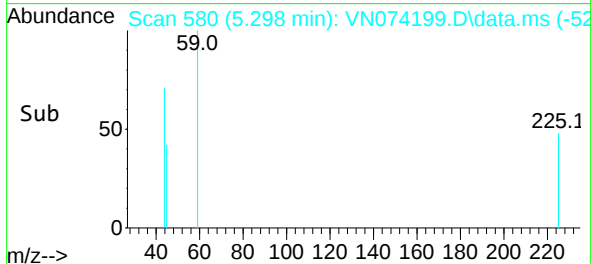
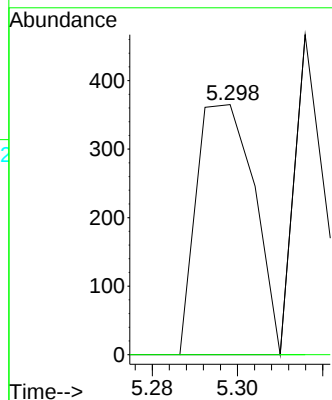
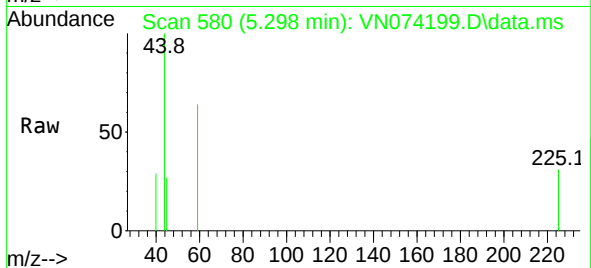
WC-PALM-SP-03-GR

Tgt Ion: 59 Resp: 343

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 23.798 ug/l

RT: 4.228 min Scan# 398

Delta R.T. 0.006 min

Lab File: VN074199.D

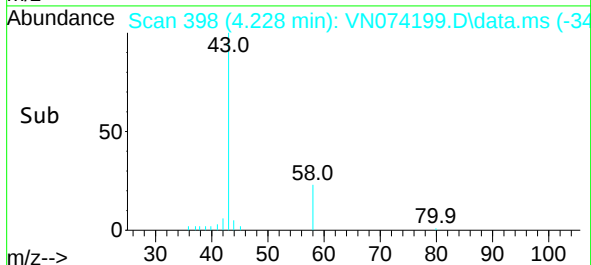
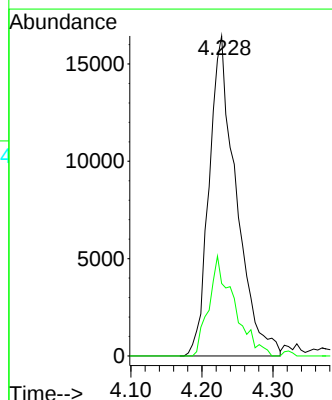
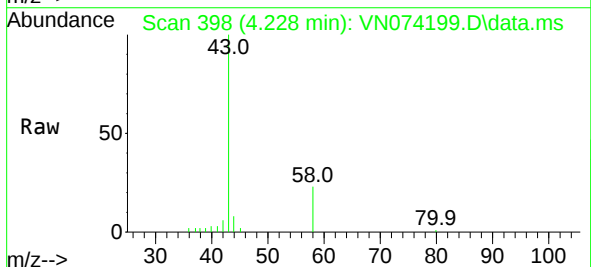
Acq: 31 Aug 2022 05:28

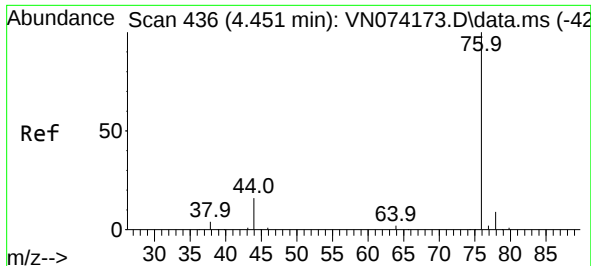
Tgt Ion: 43 Resp: 43477

Ion Ratio Lower Upper

43 100

58 22.7 26.0 39.0#

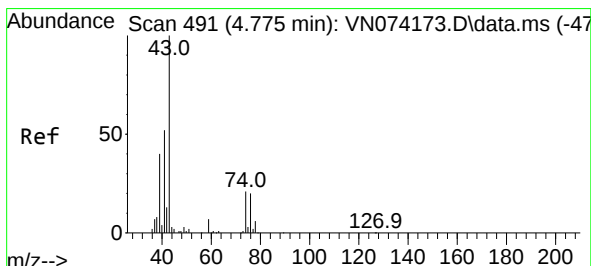
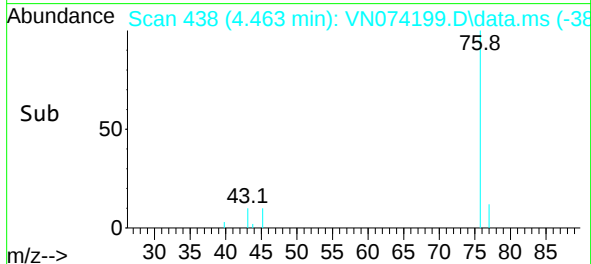
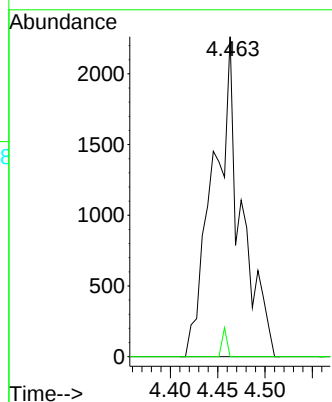
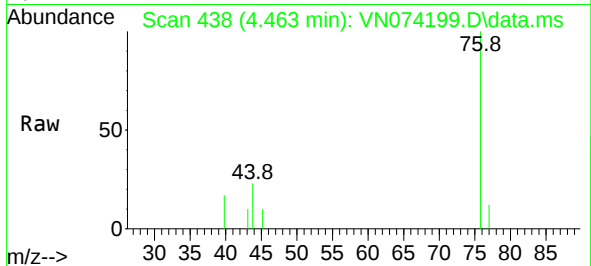




#17
Carbon Disulfide
Concen: 0.790 ug/l
RT: 4.463 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

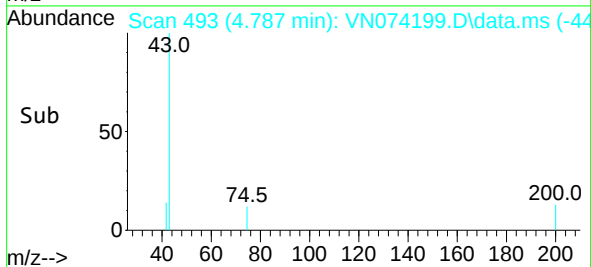
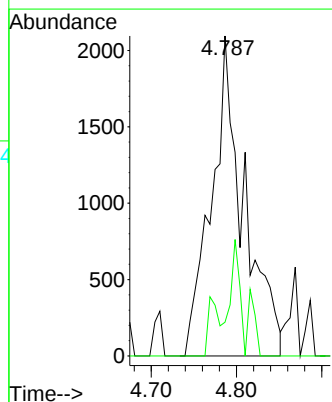
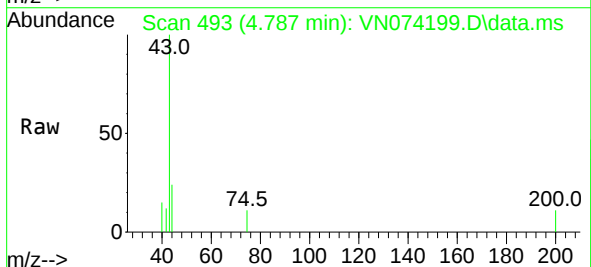
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

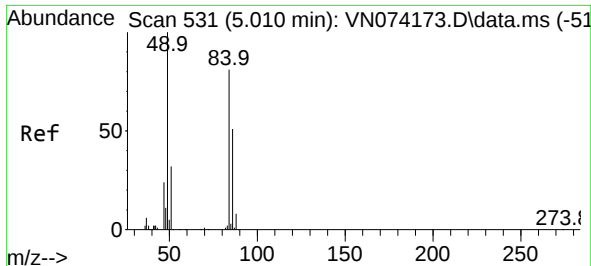
Tgt Ion: 76 Resp: 4645
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.012 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion: 43 Resp: 5527
Ion Ratio Lower Upper
43 100
74 11.3 21.6 32.4#

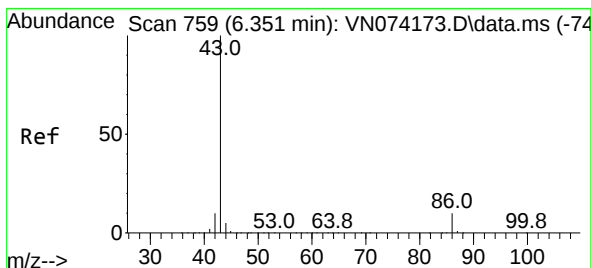
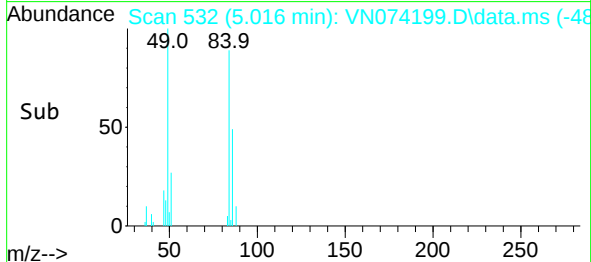
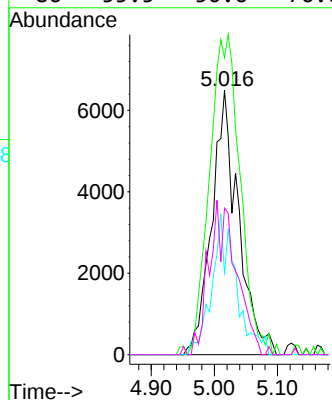
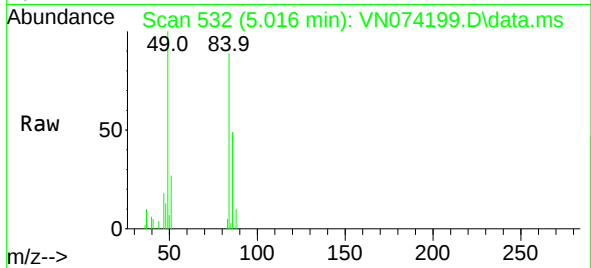




#20
Methylene Chloride
Concen: 5.807 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

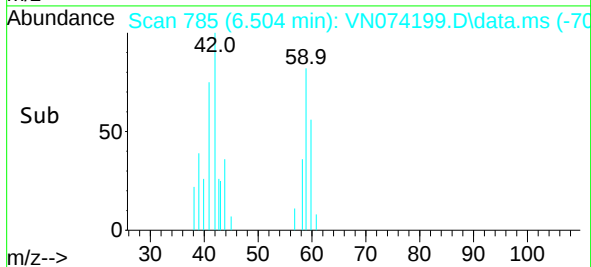
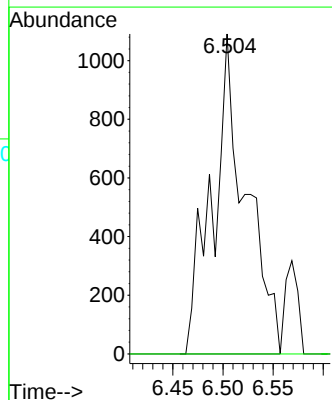
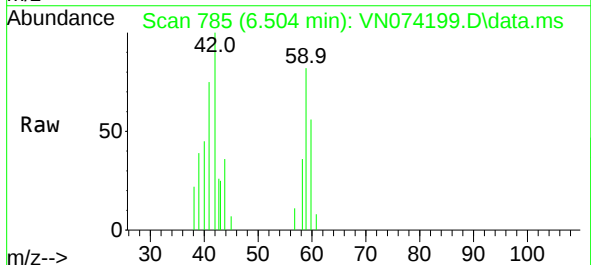
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

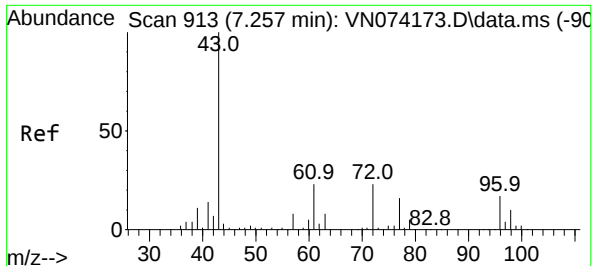
Tgt Ion:	84	Resp:	19008
Ion	Ratio	Lower	Upper
84	100		
49	112.4	88.3	132.5
51	30.3	28.2	42.2
86	55.5	50.6	76.0



#23
Vinyl Acetate
Concen: 0.321 ug/l
RT: 6.504 min Scan# 785
Delta R.T. 0.153 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion:	43	Resp:	2544
Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.0	15.0#





#25

2-Butanone

Concen: 2.795 ug/l

RT: 7.269 min Scan# 913

Delta R.T. 0.012 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

Instrument :

MSVOA_N

ClientSampleId :

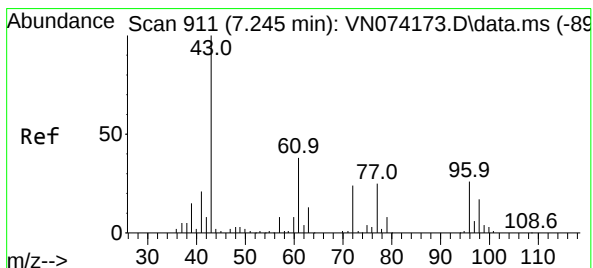
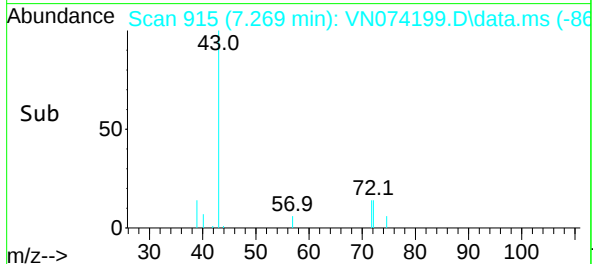
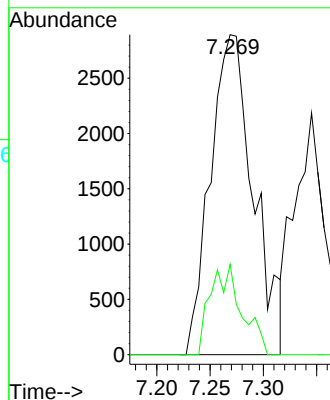
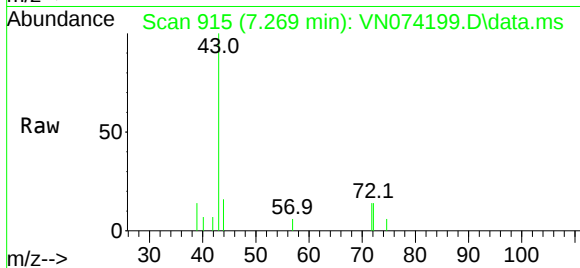
WC-PALM-SP-03-GR

Tgt Ion: 43 Resp: 8169

Ion Ratio Lower Upper

43 100

72 28.2 23.7 35.5



#26

2,2-Dichloropropane

Concen: 0.286 ug/l

RT: 7.133 min Scan# 892

Delta R.T. -0.112 min

Lab File: VN074199.D

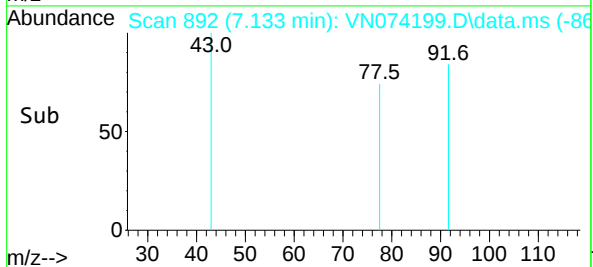
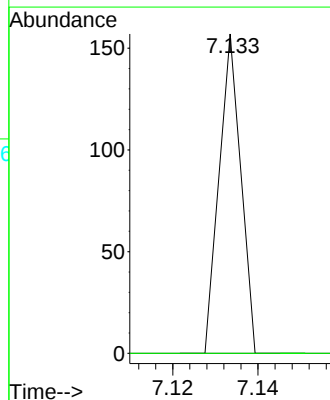
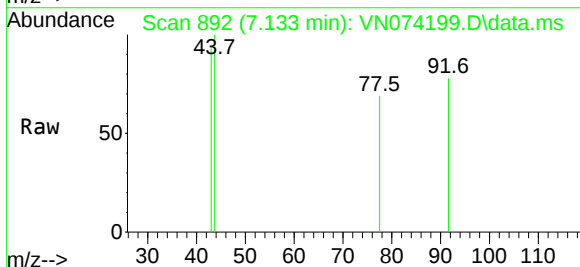
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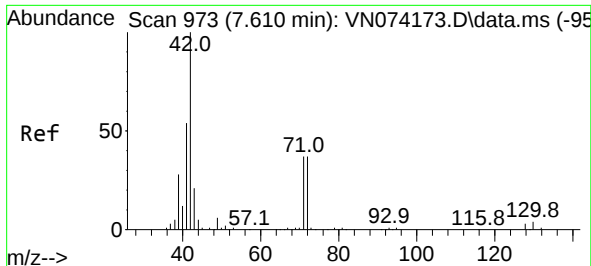
Tgt Ion: 77 Resp: 55

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.828 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03-GR

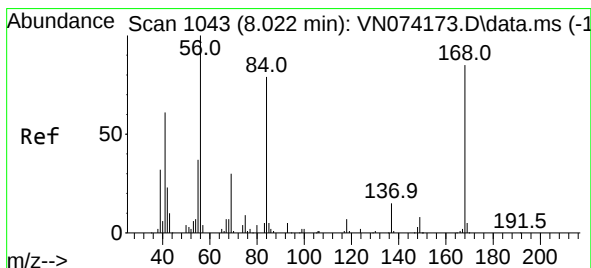
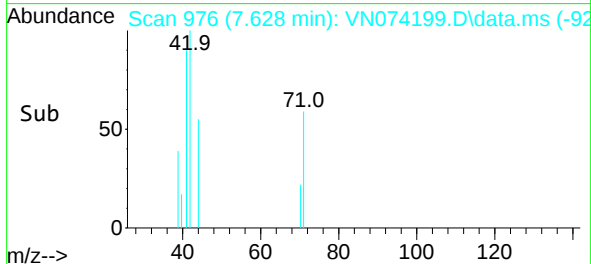
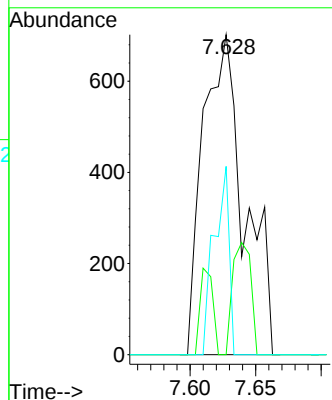
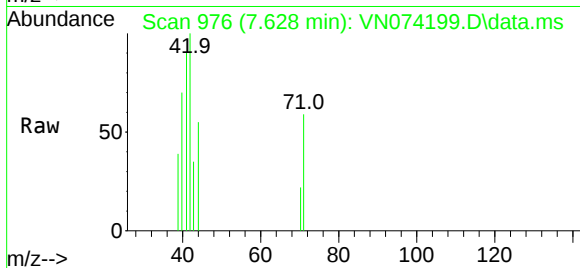
Tgt Ion: 42 Resp: 1541

Ion Ratio Lower Upper

42 100

72 15.4 39.7 59.5#

71 21.4 36.6 55.0#



#31

Cyclohexane

Concen: 1.283 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.006 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

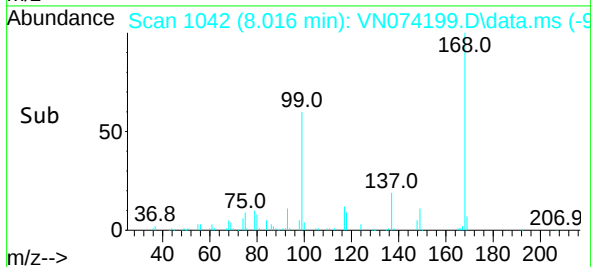
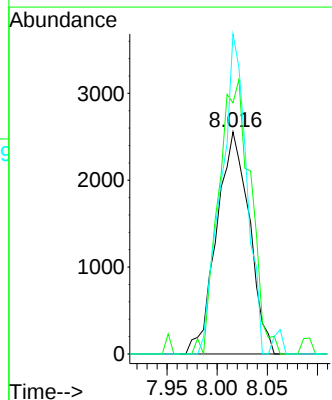
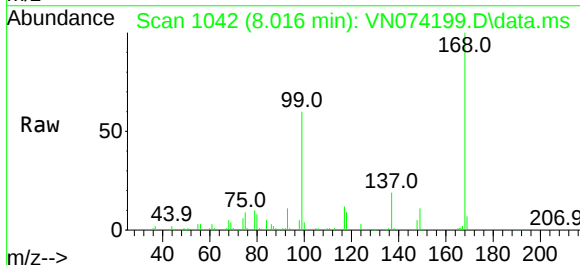
Tgt Ion: 56 Resp: 5798

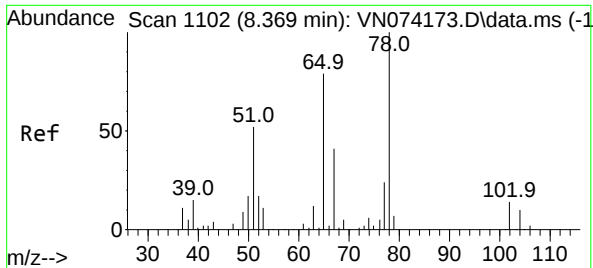
Ion Ratio Lower Upper

56 100

69 113.0 27.8 41.8#

84 144.1 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 50.266 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

Instrument :

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ClientSampleId :

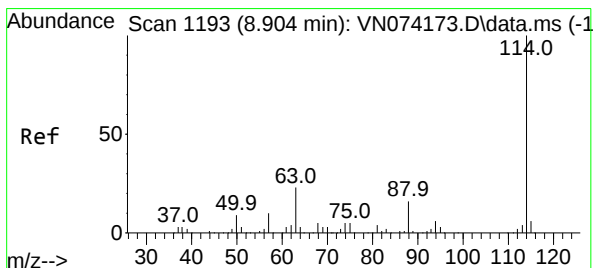
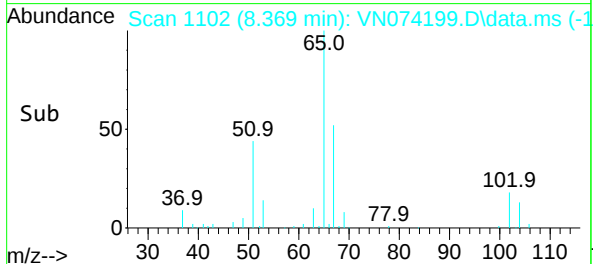
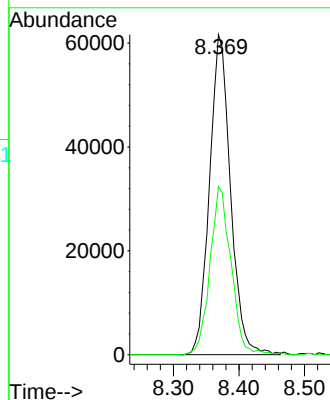
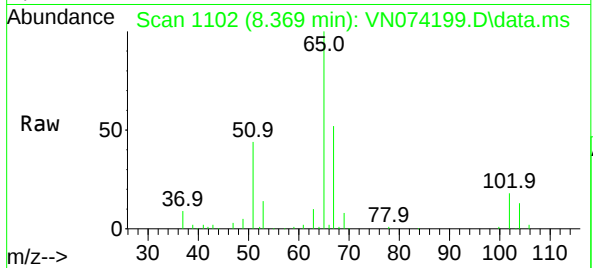
WC-PALM-SP-03-GR

Tgt Ion: 65 Resp: 137431

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

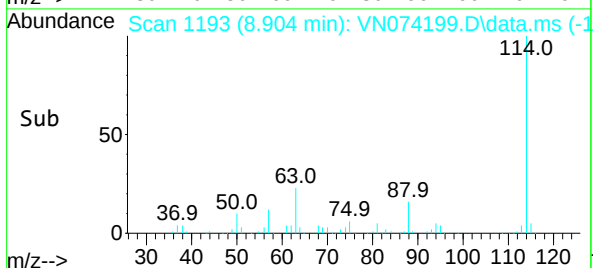
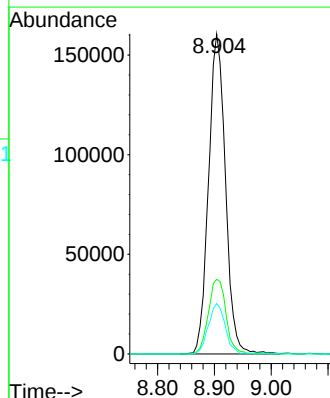
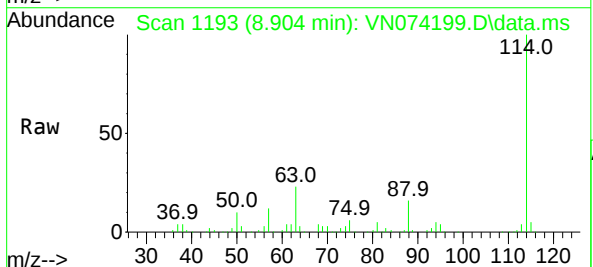
Tgt Ion: 114 Resp: 330680

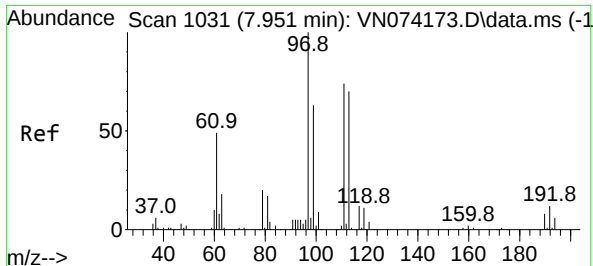
Ion Ratio Lower Upper

114 100

63 23.3 0.0 40.0

88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.700 ug/l

RT: 7.951 min Scan# 1043

Delta R.T. -0.000 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03-GR

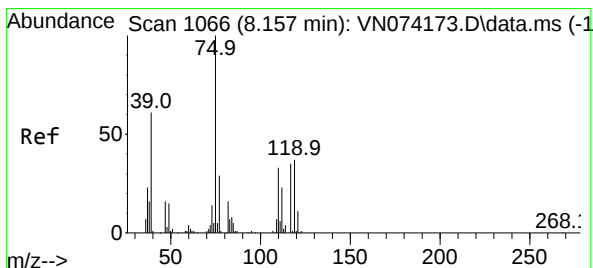
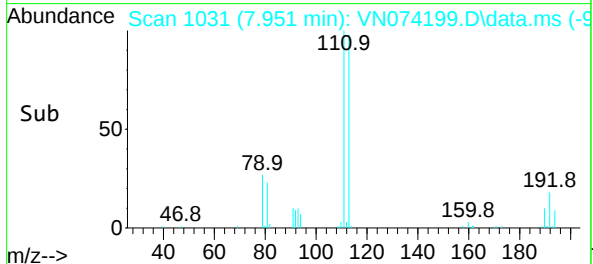
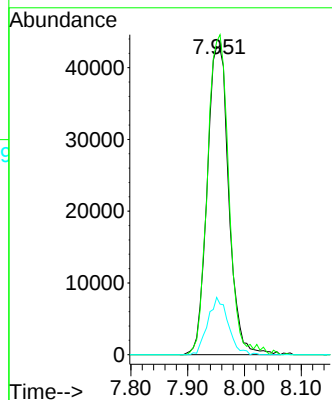
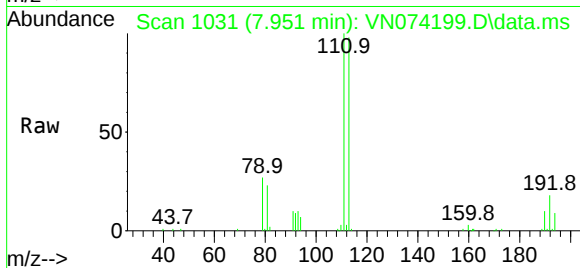
Tgt Ion:113 Resp: 113400

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

192 17.6 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.719 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.135 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

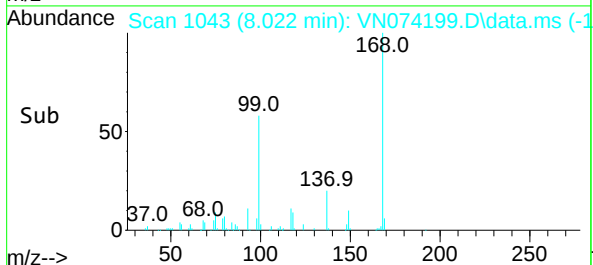
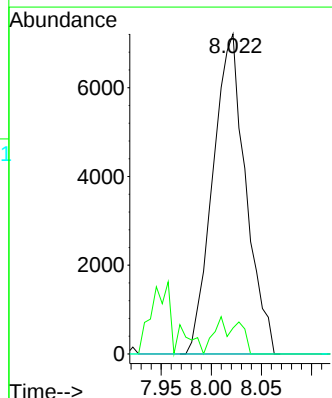
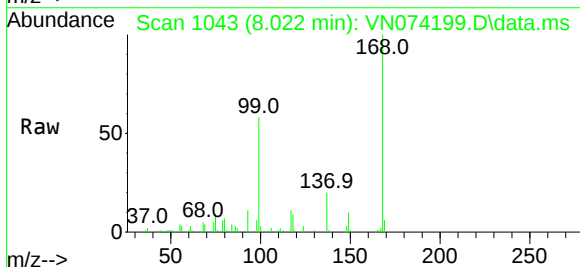
Tgt Ion: 75 Resp: 16475

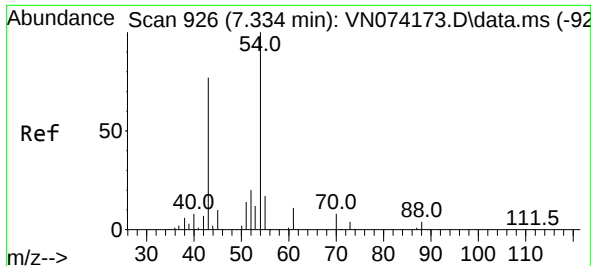
Ion Ratio Lower Upper

75 100

110 4.5 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.869 ug/l

RT: 7.345 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03-GR

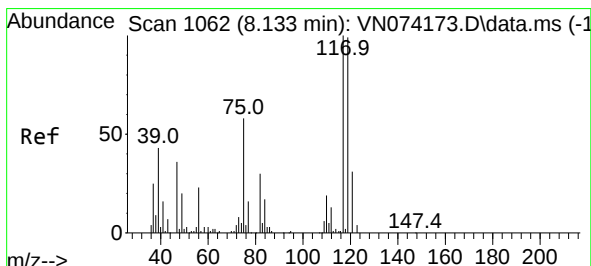
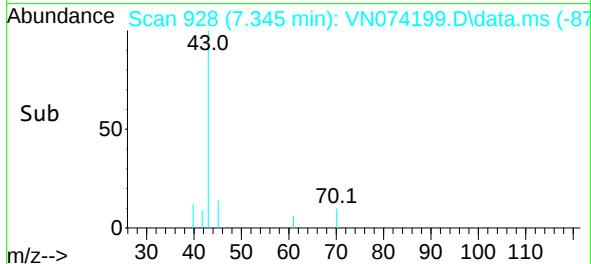
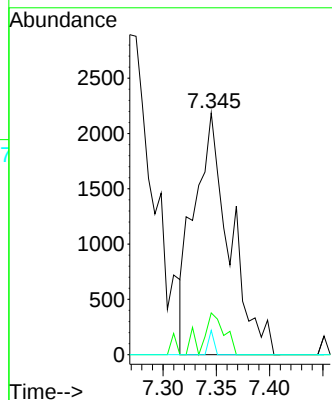
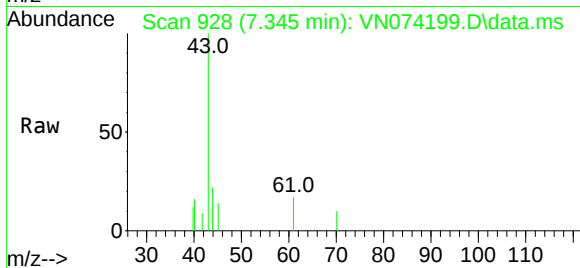
Tgt Ion: 43 Resp: 5073

Ion Ratio Lower Upper

43 100

61 10.4 11.8 17.6#

70 1.5 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 6.130 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.117 min

Lab File: VN074199.D

Acq: 31 Aug 2022 05:28

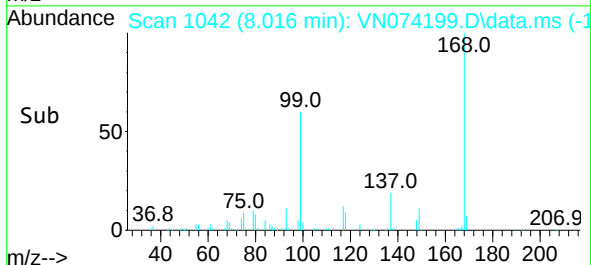
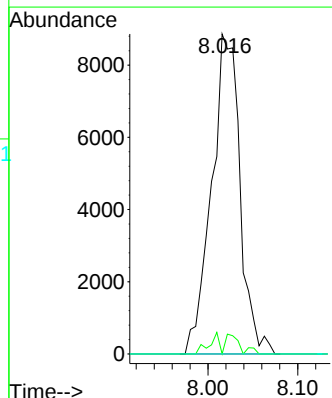
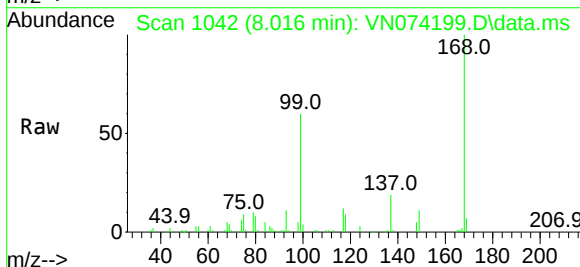
Tgt Ion: 117 Resp: 19438

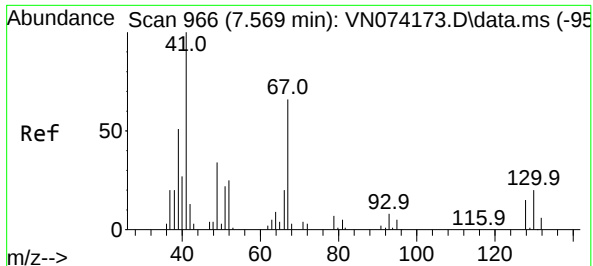
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 24.6 37.0#

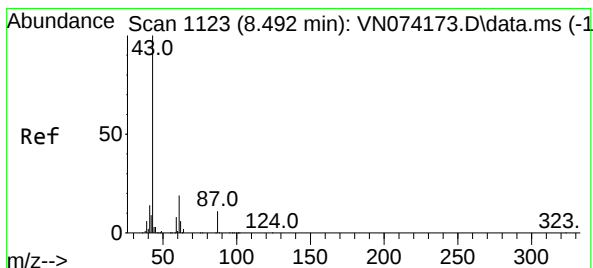
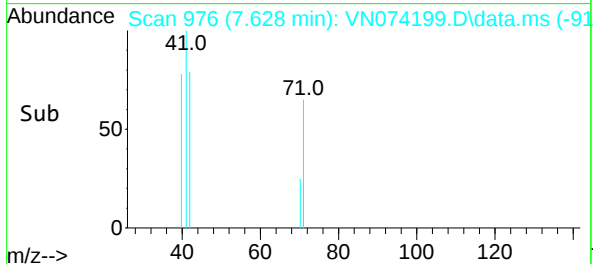
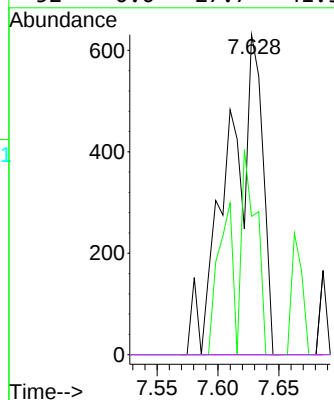
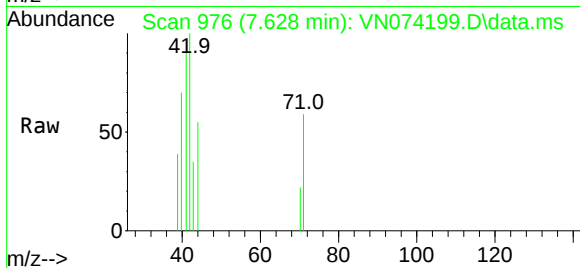




#41
Methacrylonitrile
Concen: 0.460 ug/l
RT: 7.628 min Scan# 91
Delta R.T. 0.059 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

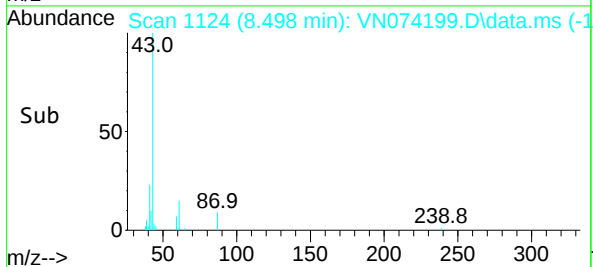
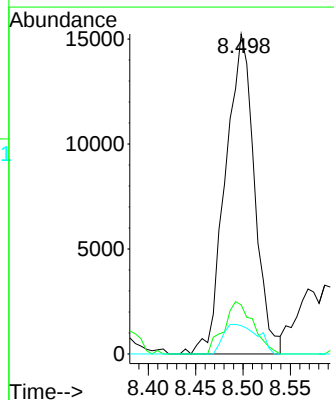
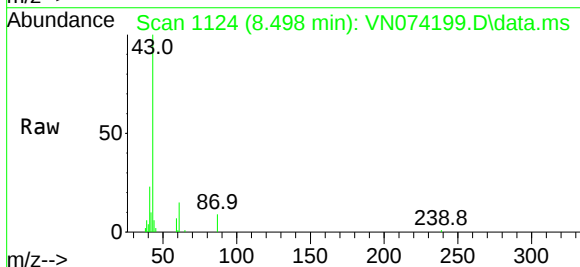
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

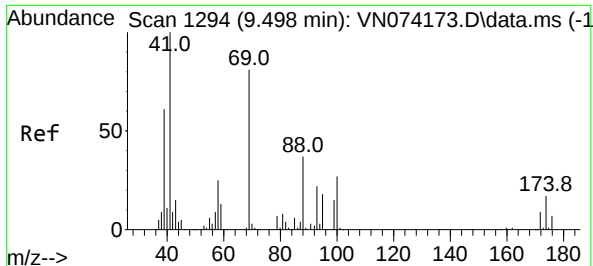
Tgt Ion:	41	Resp:	1241
Ion	Ratio	Lower	Upper
41	100		
39	27.2	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#43
Isopropyl Acetate
Concen: 4.148 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion:	43	Resp:	32562
Ion	Ratio	Lower	Upper
43	100		
61	16.5	21.9	32.9#
87	10.9	12.0	18.0#

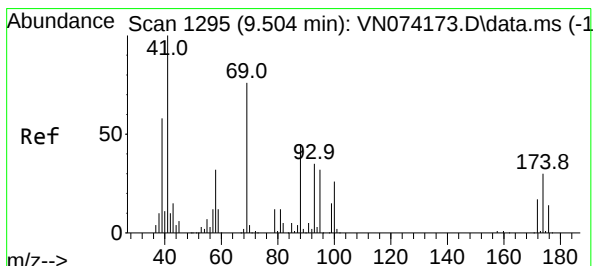
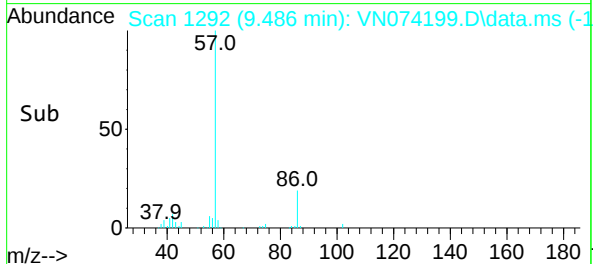
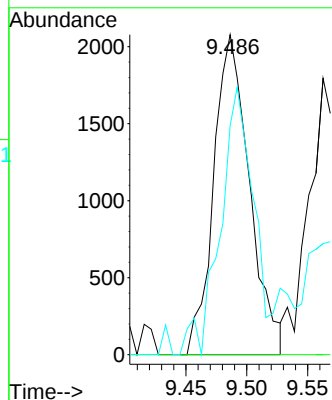
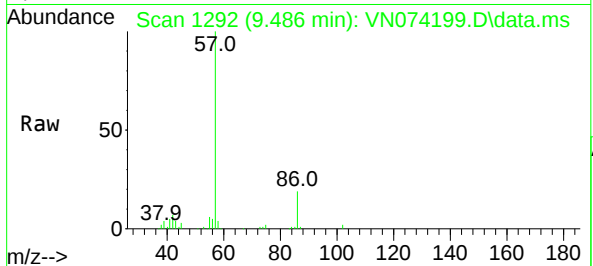




#48
Methyl methacrylate
Concen: 1.141 ug/l
RT: 9.486 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

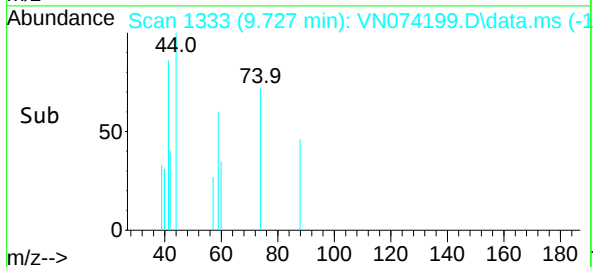
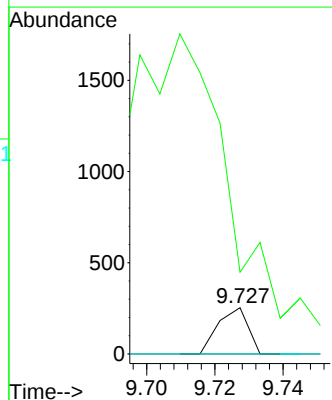
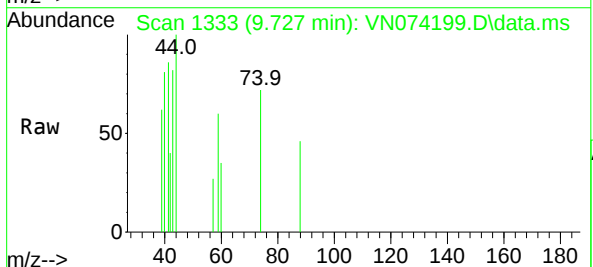
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

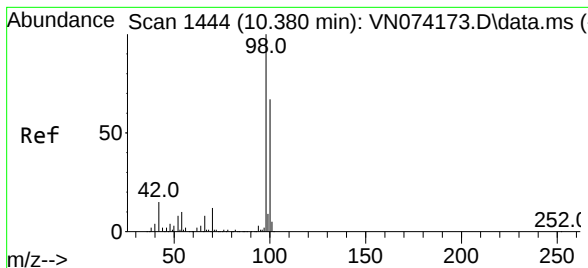
Tgt Ion: 41 Resp: 4255
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 78.7 45.6 68.4#



#49
1,4-Dioxane
Concen: 1.914 ug/l
RT: 9.727 min Scan# 1333
Delta R.T. 0.223 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion: 88 Resp: 154
Ion Ratio Lower Upper
88 100
43 3006.5 20.2 30.4#
58 0.0 54.2 81.4#

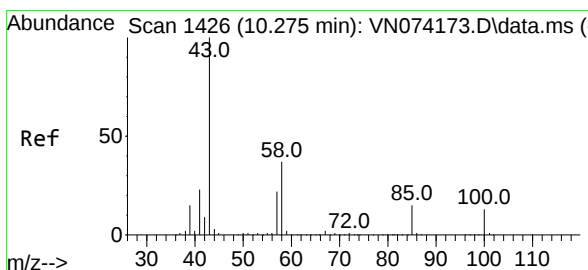
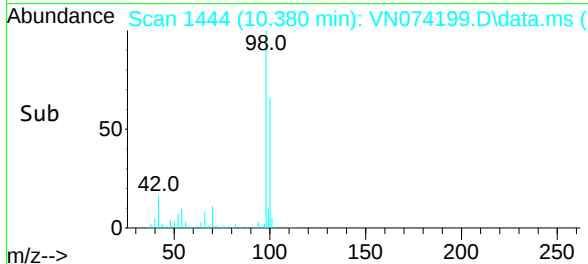
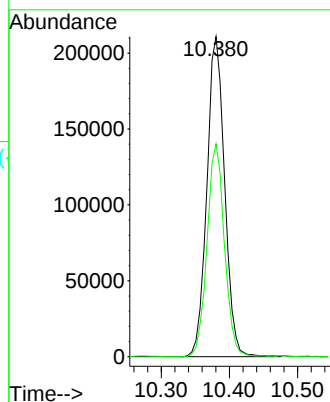
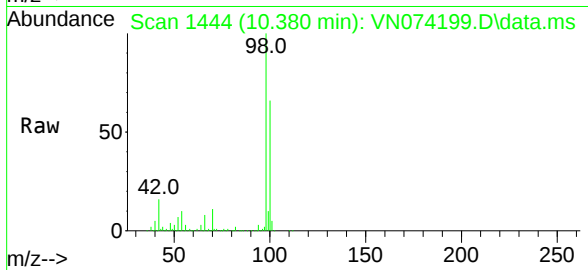




#50
Toluene-d8
Concen: 45.095 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

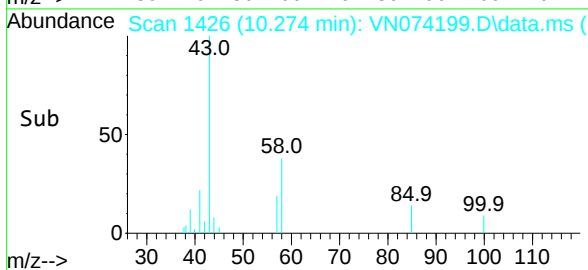
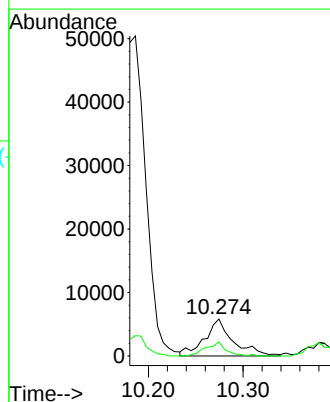
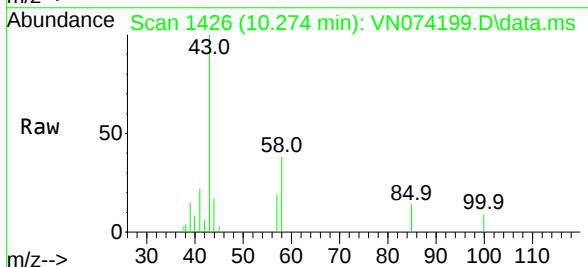
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

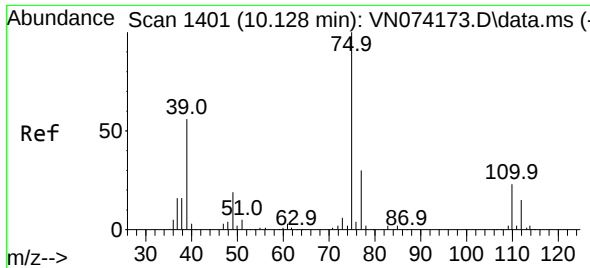
Tgt Ion: 98 Resp: 382136
Ion Ratio Lower Upper
98 100
100 65.2 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 2.122 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion: 43 Resp: 12089
Ion Ratio Lower Upper
43 100
58 27.2 34.1 51.1#

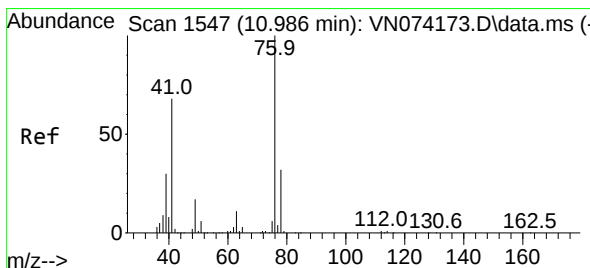
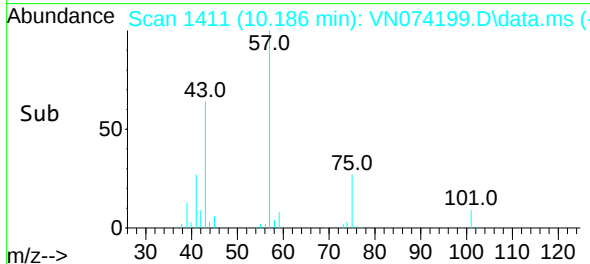
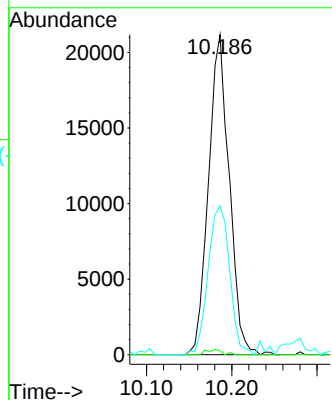
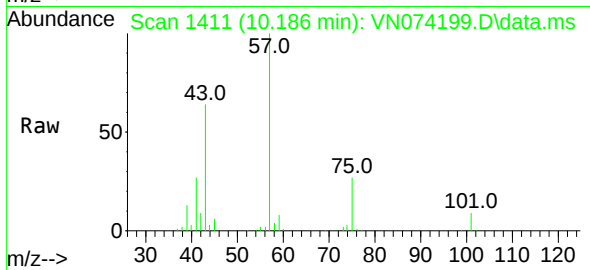




#54
cis-1,3-Dichloropropene
Concen: 8.702 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.059 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

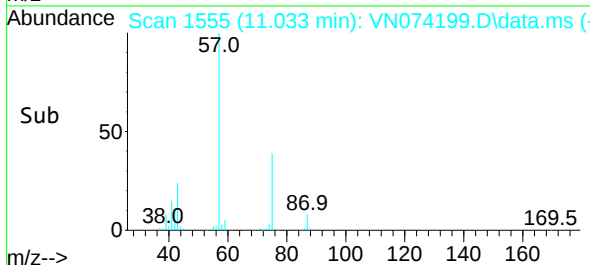
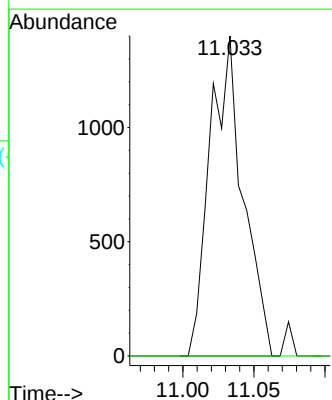
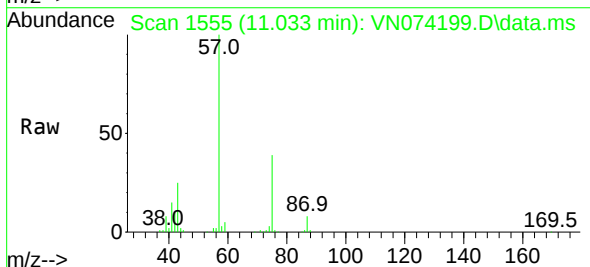
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

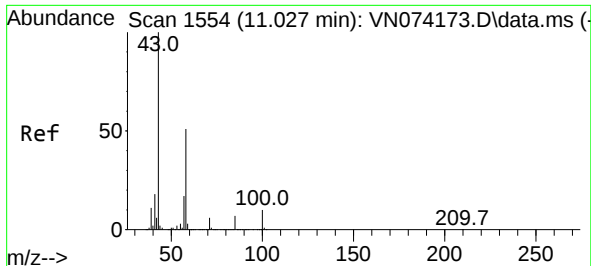
Tgt Ion:	75	Resp:	35783
Ion	Ratio	Lower	Upper
75	100		
77	1.2	25.2	37.8#
39	44.9	35.7	53.5



#57
1,3-Dichloropropane
Concen: 0.469 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.047 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion:	76	Resp:	2279
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.2#

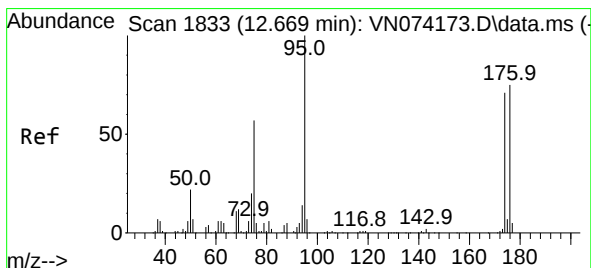
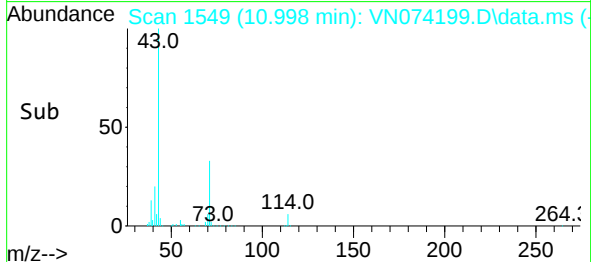
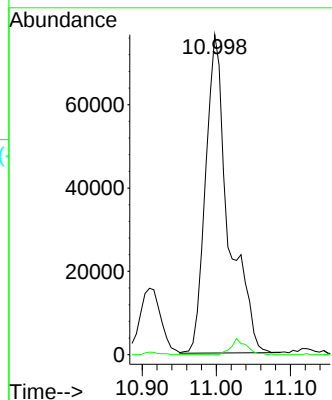
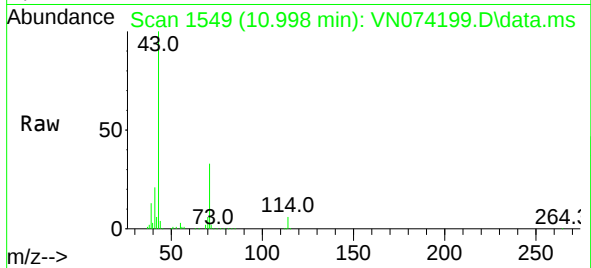




#59
2-Hexanone
Concen: 37.997 ug/l
RT: 10.998 min Scan# 1549
Delta R.T. -0.030 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

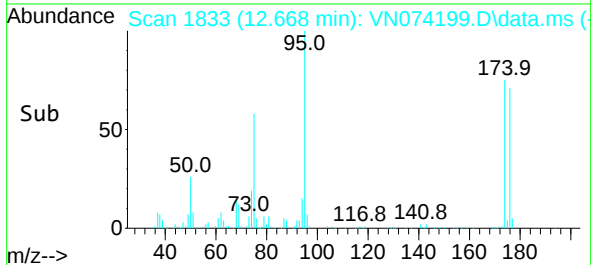
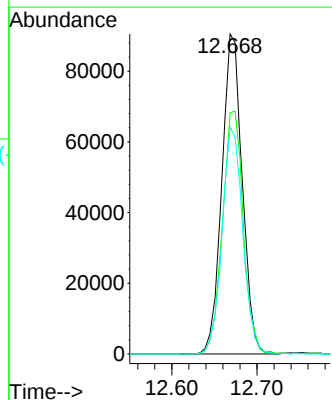
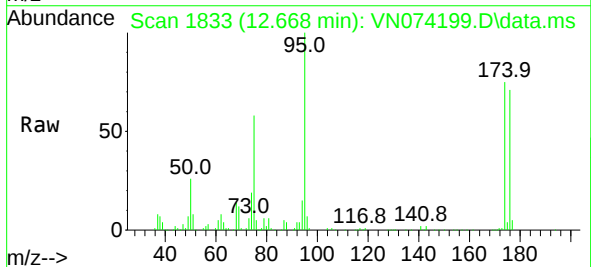
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MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

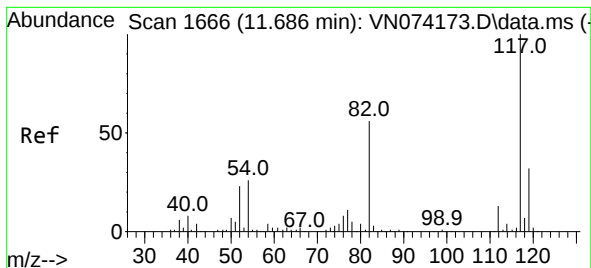
Tgt Ion: 43 Resp: 164267
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 58.496 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion: 95 Resp: 150744
Ion Ratio Lower Upper
95 100
174 77.8 0.0 167.6
176 71.9 0.0 163.4

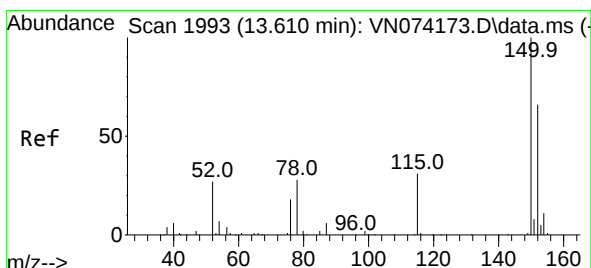
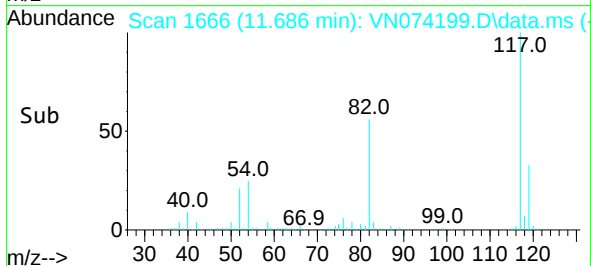
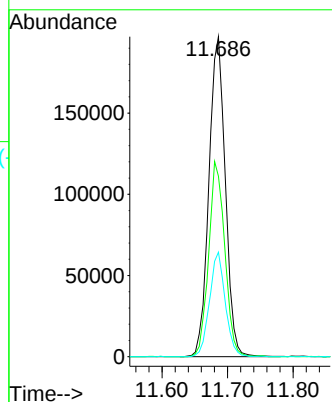
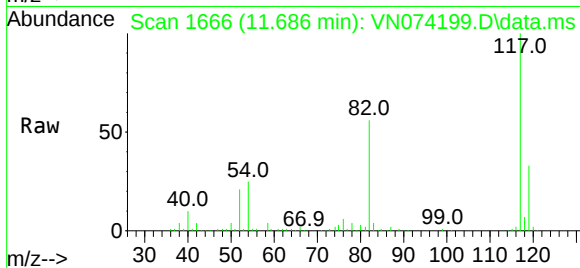




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

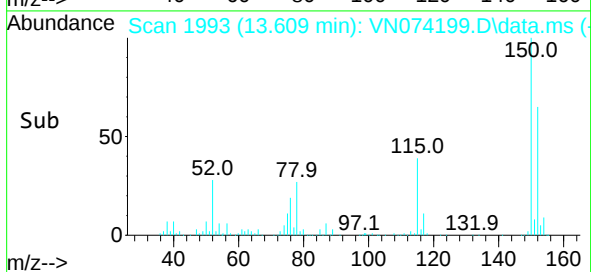
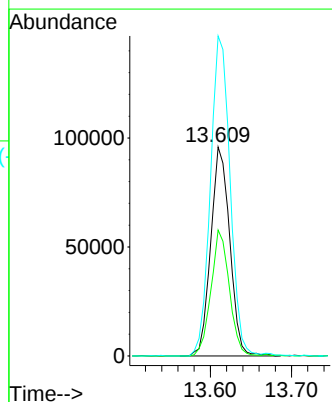
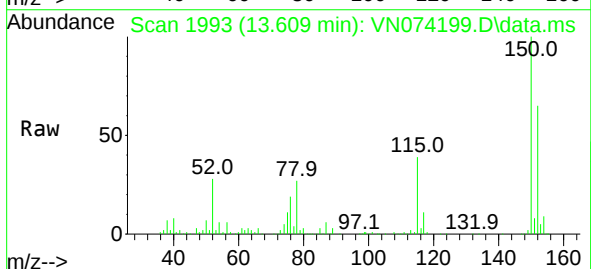
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

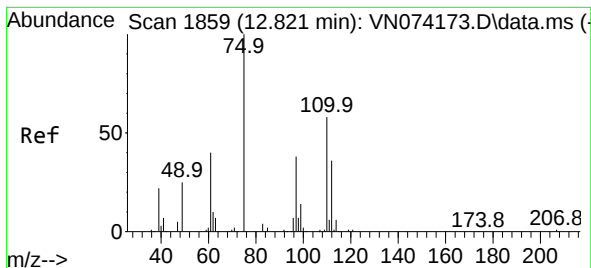
Tgt Ion:117 Resp: 343099
Ion Ratio Lower Upper
117 100
82 56.4 44.2 66.2
119 32.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.609 min Scan# 1993
Delta R.T. -0.001 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

Tgt Ion:152 Resp: 156034
Ion Ratio Lower Upper
152 100
115 58.1 28.9 86.7
150 157.9 0.0 356.2

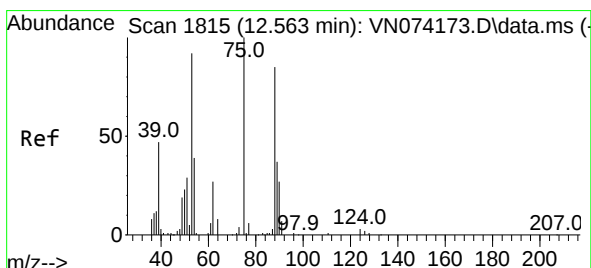
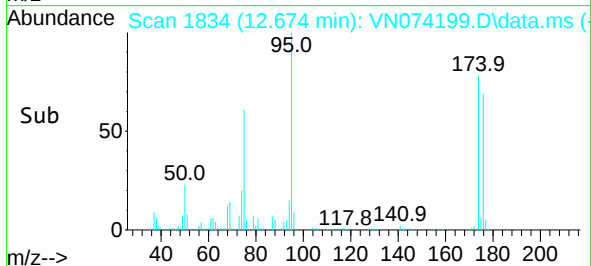
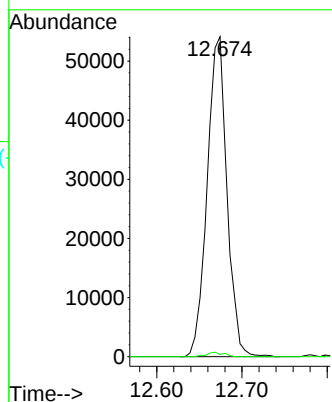
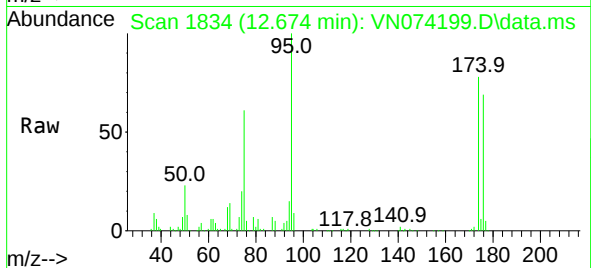




#76
1,2,3-Trichloropropane
Concen: 22.341 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

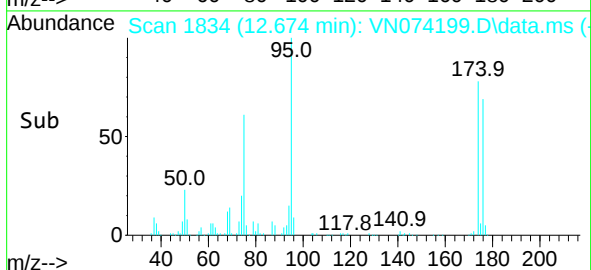
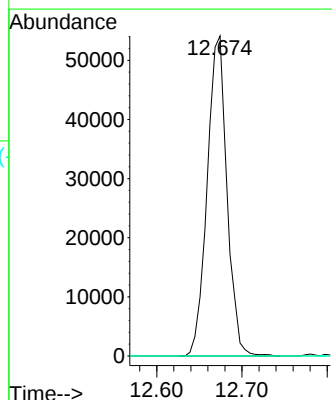
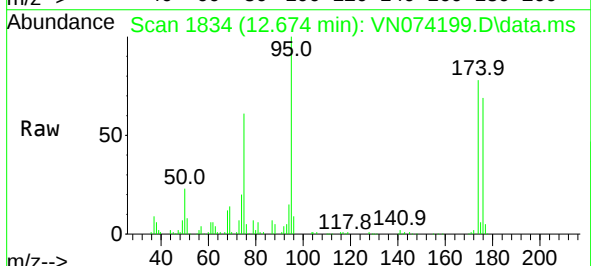
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03-GR

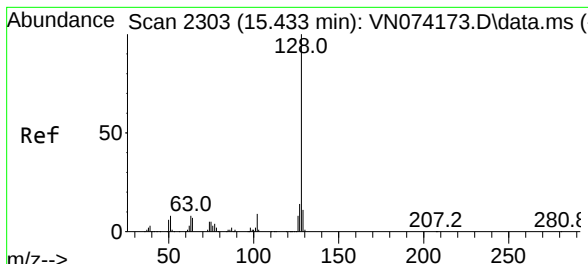
Tgt Ion: 75 Resp: 87467
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.185 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.112 min
Lab File: VN074199.D
Acq: 31 Aug 2022 05:28

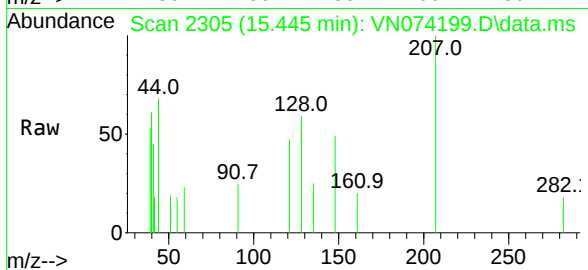
Tgt Ion: 75 Resp: 87467
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#95
 Naphthalene
 Concen: 1.208 ug/l
 RT: 15.445 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN074199.D
 Acq: 31 Aug 2022 05:28

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-PALM-SP-03-GR



Tgt Ion:	128	Resp:	686
Ion	Ratio	Lower	Upper
128	100		
127	7.9	10.3	15.5#
129	0.0	8.6	13.0#

