

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080224\
 Data File : VD079545.D
 Acq On : 02 Aug 2024 16:32
 Operator : RP/MD
 Sample : P3403-03
 Misc : 5.02G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR251686

Quant Time: Aug 02 18:56:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072924S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:50:47 2024
 Response via : Initial Calibration

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

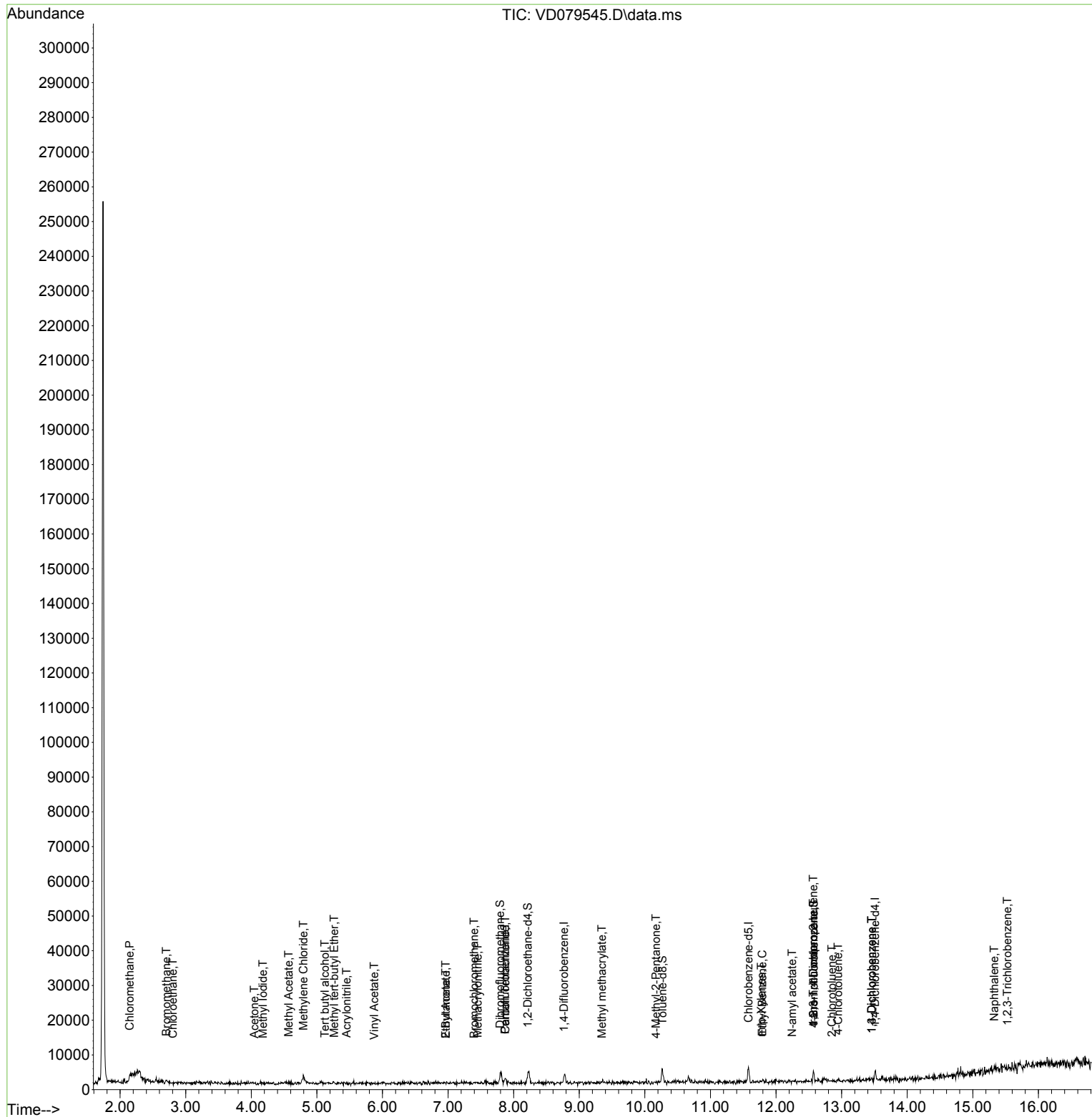
Internal Standards						
1) Pentafluorobenzene	7.869	168	1466	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.769	114	3415	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	2638	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.510	152	875	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.216	65	3025	203.113	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 406.220%#			
35) Dibromofluoromethane	7.793	113	2551	110.365	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 220.720%#			
50) Toluene-d8	10.269	98	3297	36.731	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 73.460%			
62) 4-Bromofluorobenzene	12.575	95	686	26.410	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 52.820%			
Target Compounds					Qvalue	
3) Chloromethane	2.146	50	118	5.575	ug/l #	40
5) Bromomethane	2.705	94	597	36.896	ug/l #	66
6) Chloroethane	2.805	64	65	4.020	ug/l #	44
10) Methyl Iodide	4.175	142	246	14.186	ug/l #	41
11) Tert butyl alcohol	5.122	59	56	72.322	ug/l #	86
15) Acrylonitrile	5.452	53	87	24.628	ug/l #	17
16) Acetone	4.046	43	66	22.803	ug/l #	37
18) Methyl Acetate	4.569	43	131	14.578	ug/l #	40
19) Methyl tert-butyl Ether	5.263	73	53	1.639	ug/l #	53
20) Methylene Chloride	4.793	84	1870	93.731	ug/l #	55
23) Vinyl Acetate	5.875	43	57	1.629	ug/l #	63
25) 2-Butanone	6.963	43	54	13.160	ug/l #	42
28) Bromochloromethane	7.399	49	55	4.022	ug/l #	1
37) Ethyl Acetate	6.963	43	54	4.175	ug/l #	64
38) Carbon Tetrachloride	7.875	117	135	4.071	ug/l #	13
41) Methacrylonitrile	7.451	41	68	9.557	ug/l #	12
48) Methyl methacrylate	9.345	41	55	5.055	ug/l #	6
51) 4-Methyl-2-Pentanone	10.169	43	57	4.592	ug/l #	31
67) Ethyl Benzene	11.792	91	128	1.338	ug/l #	42
68) m/p-Xylenes	11.775	106	63	1.661	ug/l	88
74) N-amyl acetate	12.245	43	54	4.196	ug/l #	35
76) 1,2,3-Trichloropropane	12.569	75	266	34.779	ug/l #	100
79) 2-Chlorotoluene	12.851	91	74	1.817	ug/l #	37
81) trans-1,4-Dichloro-2-b...	12.569	75	266	66.332	ug/l #	19
82) 4-Chlorotoluene	12.945	91	67	1.578	ug/l #	37
87) 1,3-Dichlorobenzene	13.457	146	161	5.298	ug/l	81
88) 1,4-Dichlorobenzene	13.457	146	161	5.388	ug/l	78
95) Naphthalene	15.328	128	398	14.051	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.528	180	119	8.266	ug/l #	73

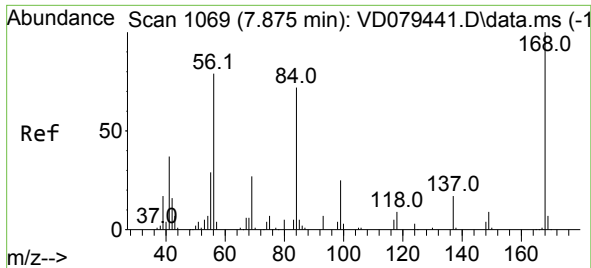
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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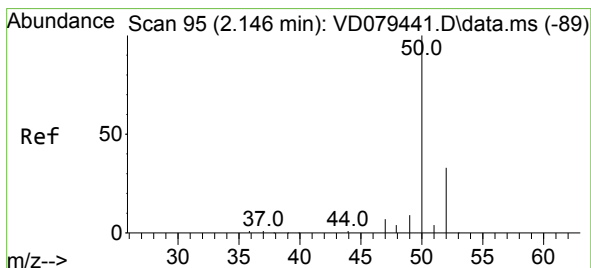
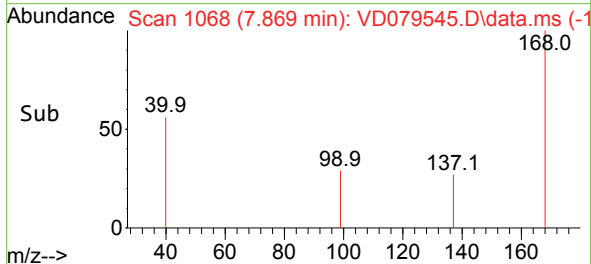
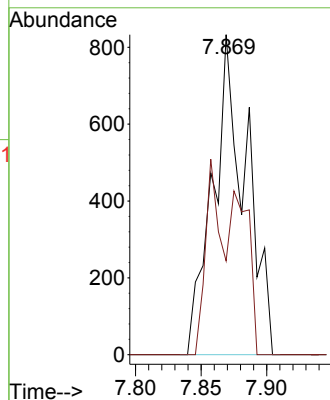
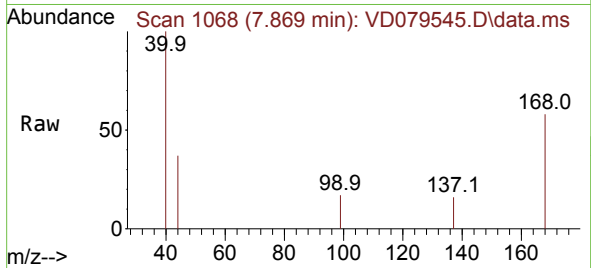




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

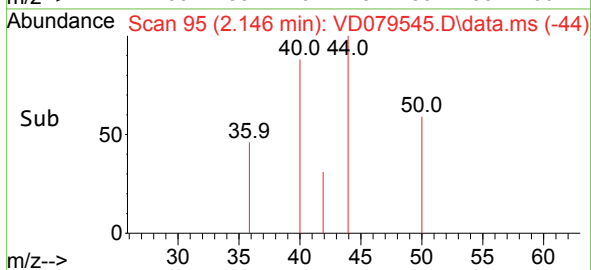
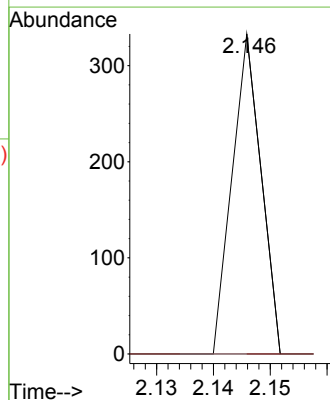
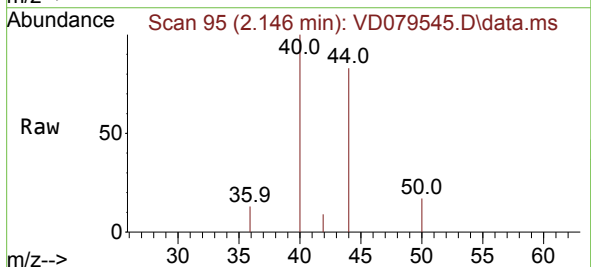
Instrument :
MSVOA_D
ClientSampleId :
RBR251686

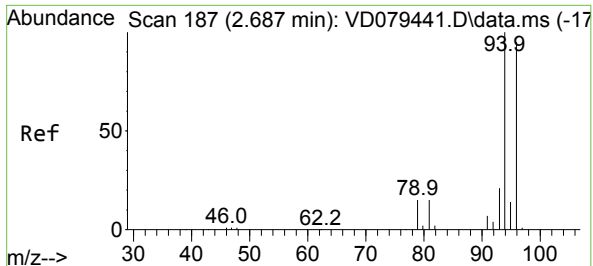
Tgt Ion:168 Resp: 1466
Ion Ratio Lower Upper
168 100
99 29.3 41.1 61.7#



#3
Chloromethane
Concen: 5.575 ug/l
RT: 2.146 min Scan# 95
Delta R.T. -0.000 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion: 50 Resp: 118
Ion Ratio Lower Upper
50 100
52 0.0 28.2 42.2#





#5

Bromomethane

Concen: 36.896 ug/l

RT: 2.705 min Scan# 190

Delta R.T. 0.018 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

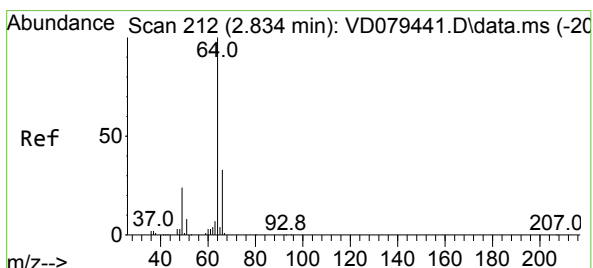
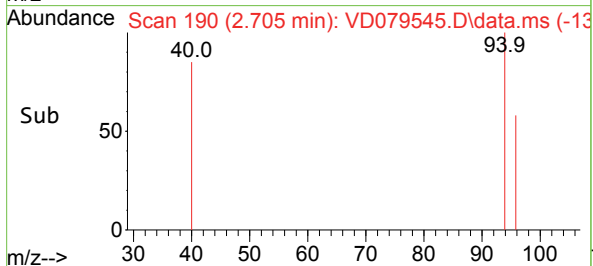
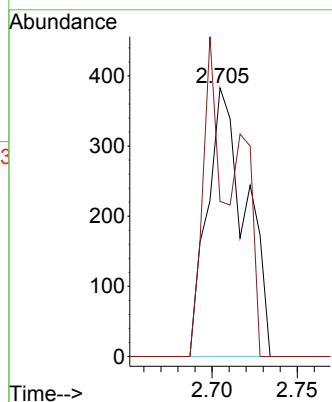
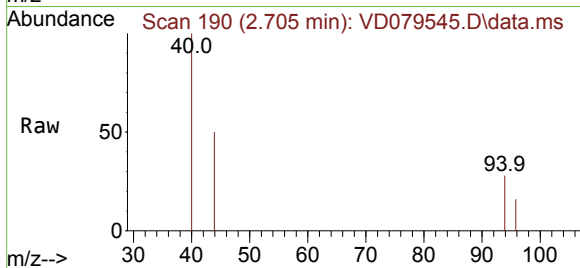
RBR251686

Tgt Ion: 94 Resp: 597

Ion Ratio Lower Upper

94 100

96 62.5 76.9 115.3#



#6

Chloroethane

Concen: 4.020 ug/l

RT: 2.805 min Scan# 207

Delta R.T. -0.024 min

Lab File: VD079545.D

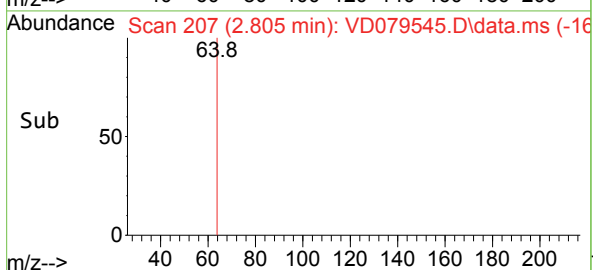
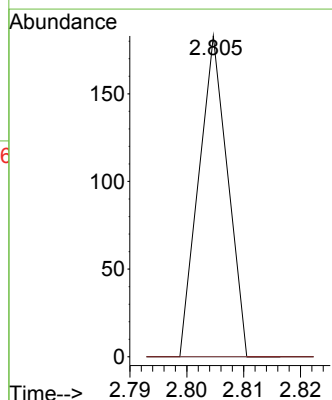
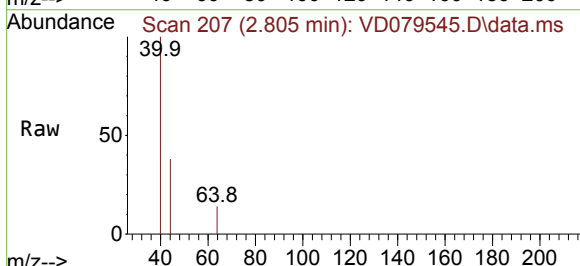
Acq: 02 Aug 2024 16:32

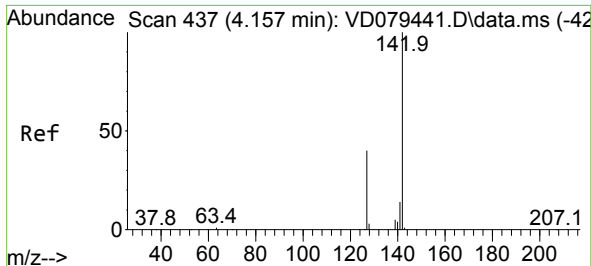
Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

64 100

66 0.0 24.5 36.7#





#10

Methyl Iodide

Concen: 14.186 ug/l

RT: 4.175 min Scan# 41

Delta R.T. 0.023 min

Lab File: VD079545.D

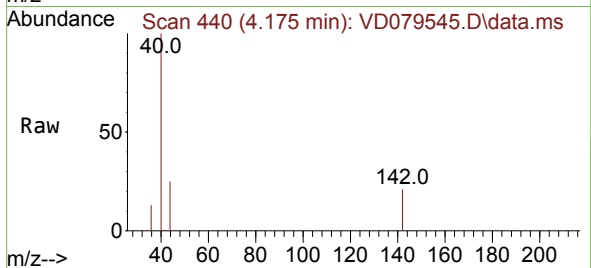
Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

RBR251686



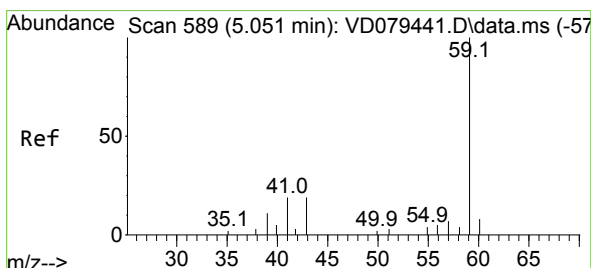
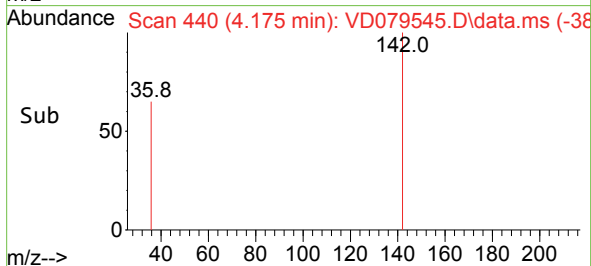
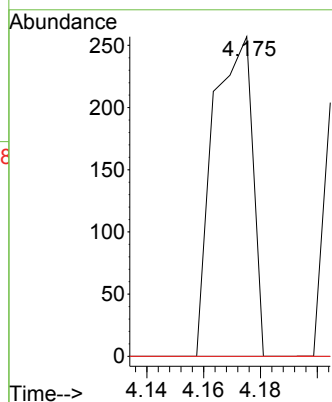
Tgt Ion:142 Resp: 246

Ion Ratio Lower Upper

142 100

127 0.0 34.2 51.4#

141 0.0 11.7 17.5#



#11

Tert butyl alcohol

Concen: 72.322 ug/l

RT: 5.122 min Scan# 601

Delta R.T. 0.076 min

Lab File: VD079545.D

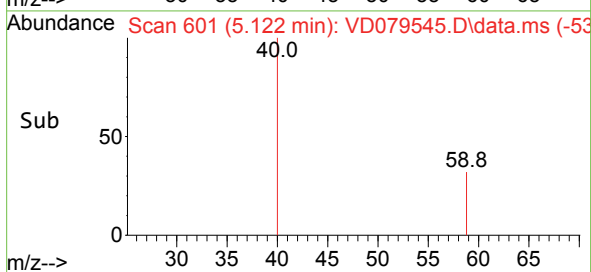
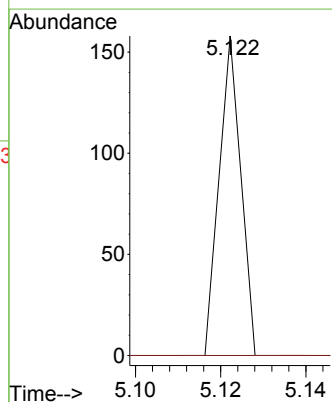
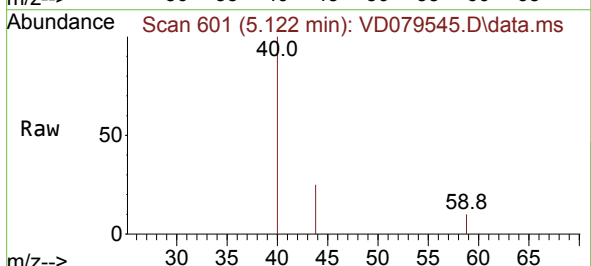
Acq: 02 Aug 2024 16:32

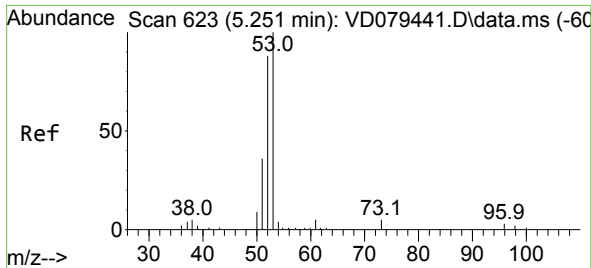
Tgt Ion: 59 Resp: 56

Ion Ratio Lower Upper

59 100

57 0.0 3.6 5.4#

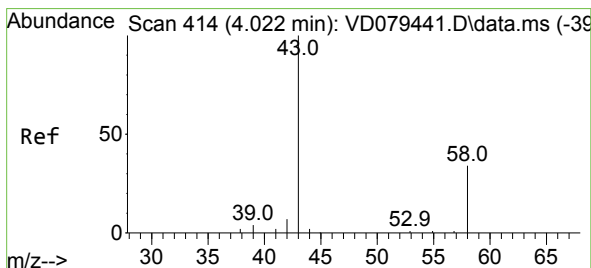
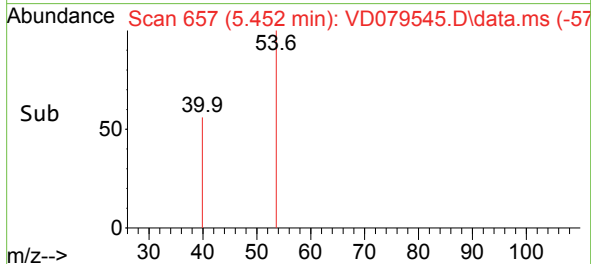
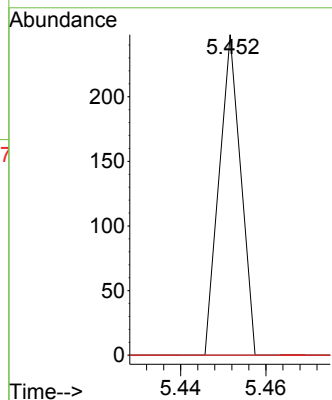
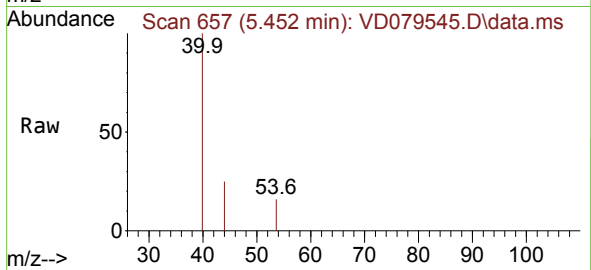




#15
Acrylonitrile
Concen: 24.628 ug/l
RT: 5.452 min Scan# 61
Delta R.T. 0.200 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

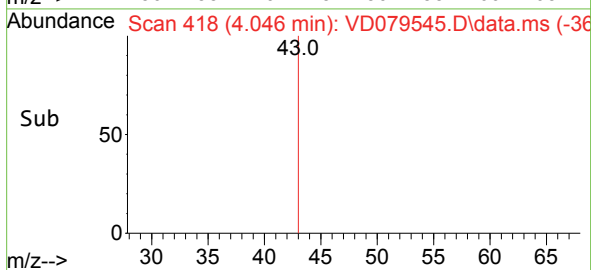
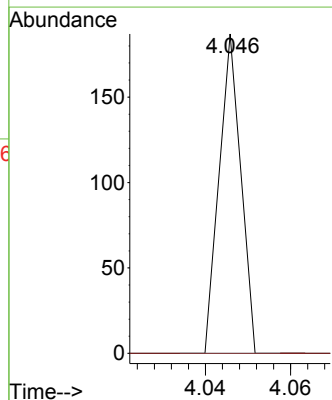
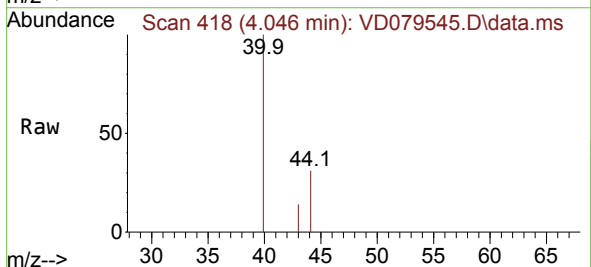
Instrument :
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RBR251686

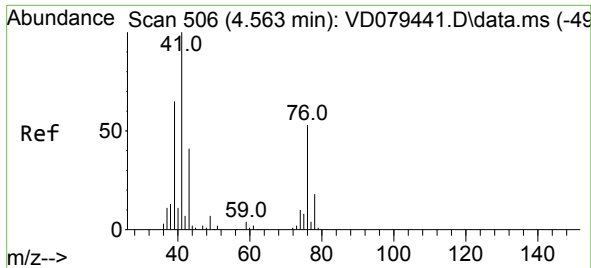
Tgt Ion: 53 Resp: 87
Ion Ratio Lower Upper
53 100
52 0.0 67.7 101.5#
51 0.0 28.6 42.8#



#16
Acetone
Concen: 22.803 ug/l
RT: 4.046 min Scan# 418
Delta R.T. 0.023 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#

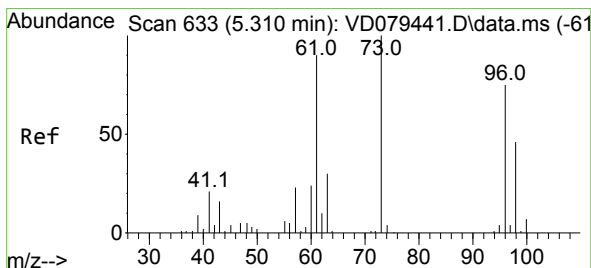
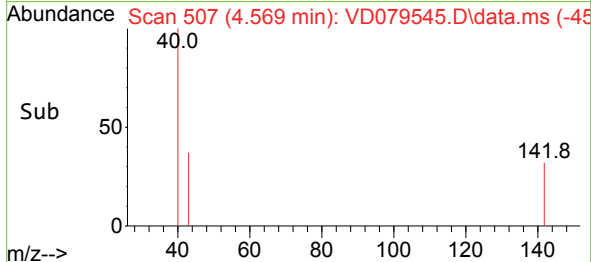
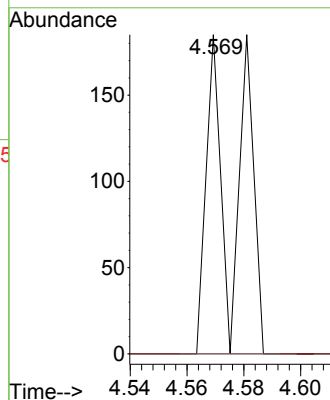
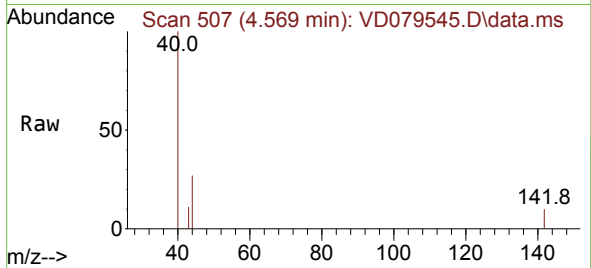




#18
Methyl Acetate
Concen: 14.578 ug/l
RT: 4.569 min Scan# 506
Delta R.T. -0.000 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

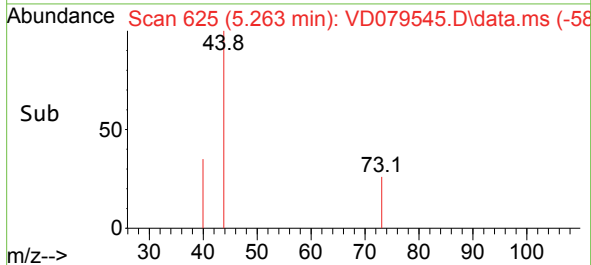
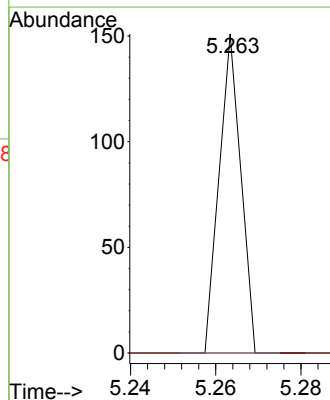
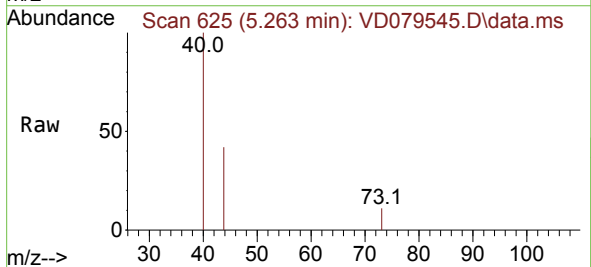
Instrument :
MSVOA_D
ClientSampleId :
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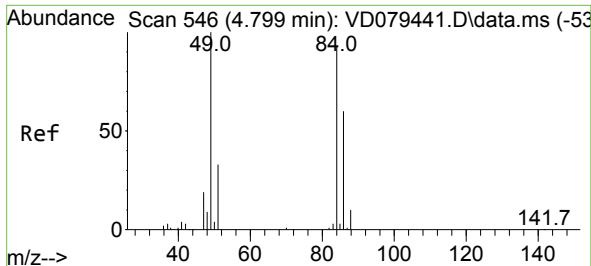
Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
74 0.0 28.1 42.1#



#19
Methyl tert-butyl Ether
Concen: 1.639 ug/l
RT: 5.263 min Scan# 625
Delta R.T. -0.053 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

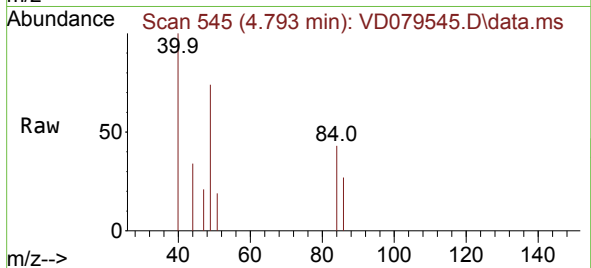
Tgt Ion: 73 Resp: 53
Ion Ratio Lower Upper
73 100
57 0.0 18.3 27.5#



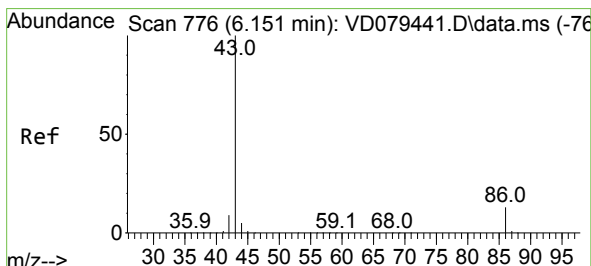
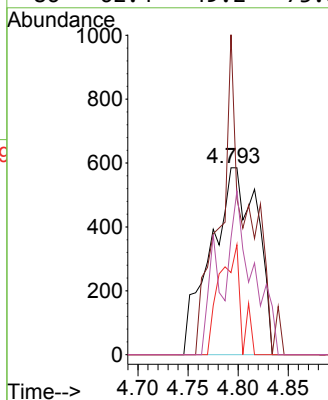
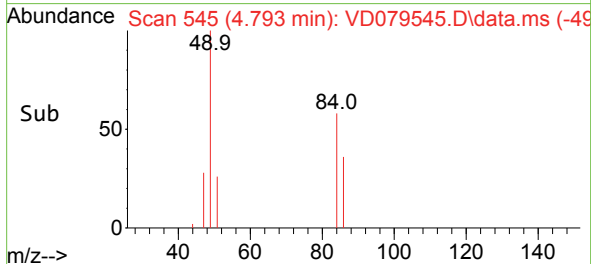


#20
Methylene Chloride
Concen: 93.731 ug/l
RT: 4.793 min Scan# 546
Delta R.T. -0.006 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

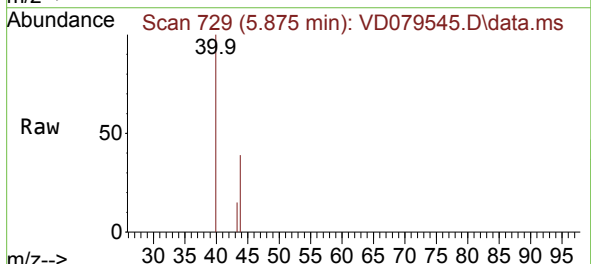
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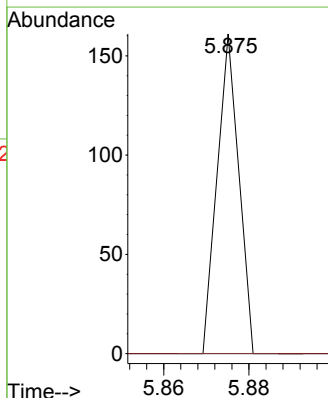
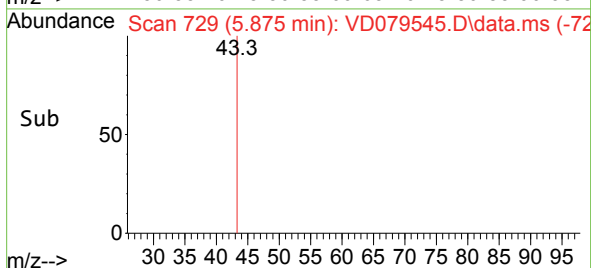
Tgt Ion: 84 Resp: 1870
Ion Ratio Lower Upper
84 100
49 171.3 75.6 113.4#
51 43.9 24.2 36.2#
86 62.4 49.2 73.8

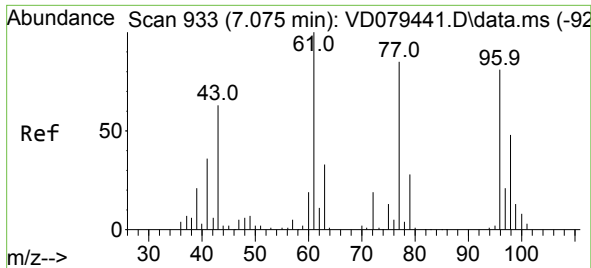


#23
Vinyl Acetate
Concen: 1.629 ug/l
RT: 5.875 min Scan# 729
Delta R.T. -0.277 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32



Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
86 0.0 12.3 18.5#

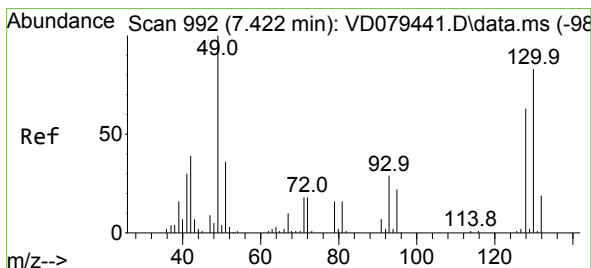
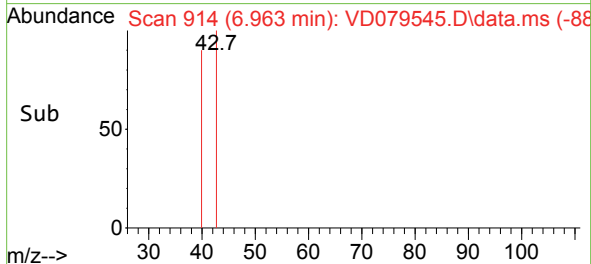
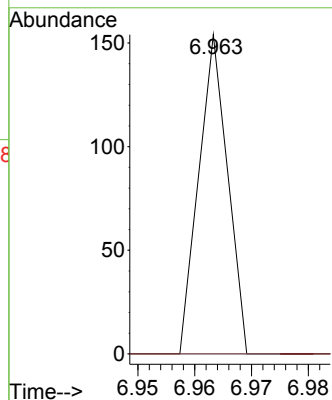
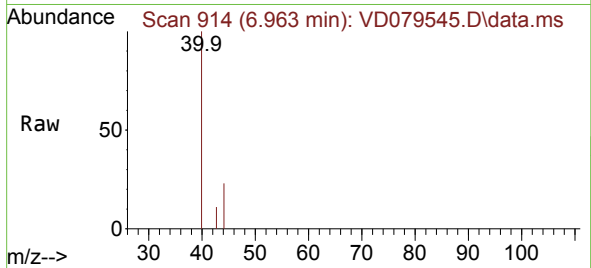




#25
2-Butanone
Concen: 13.160 ug/l
RT: 6.963 min Scan# 914
Delta R.T. -0.130 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

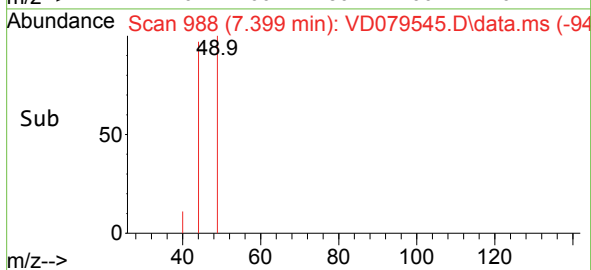
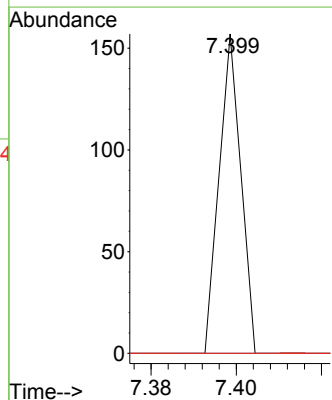
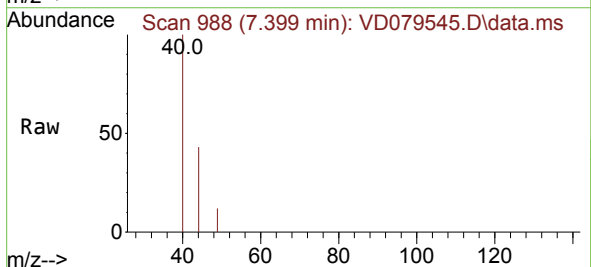
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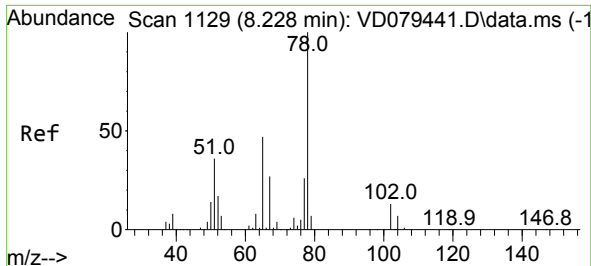
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
72 0.0 26.4 39.6#



#28
Bromochloromethane
Concen: 4.022 ug/l
RT: 7.399 min Scan# 988
Delta R.T. -0.018 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion: 49 Resp: 55
Ion Ratio Lower Upper
49 100
129 0.0 0.0 7.0
130 0.0 87.7 131.5#





#33

1,2-Dichloroethane-d4

Concen: 203.113 ug/l

RT: 8.216 min Scan# 1127

Delta R.T. -0.012 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

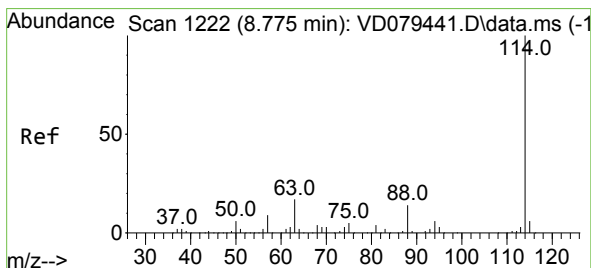
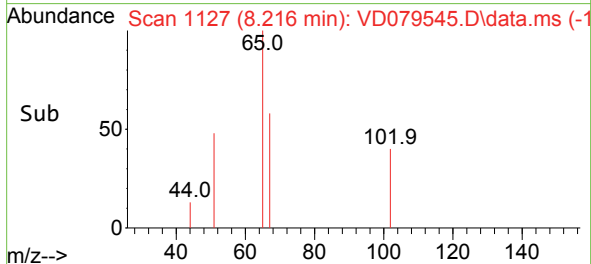
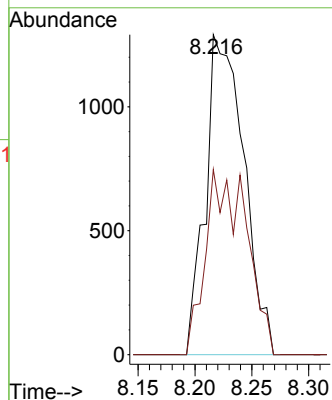
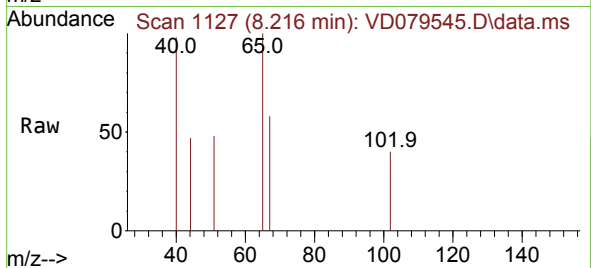
RBR251686

Tgt Ion: 65 Resp: 3025

Ion Ratio Lower Upper

65 100

67 61.6 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.769 min Scan# 1221

Delta R.T. -0.006 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

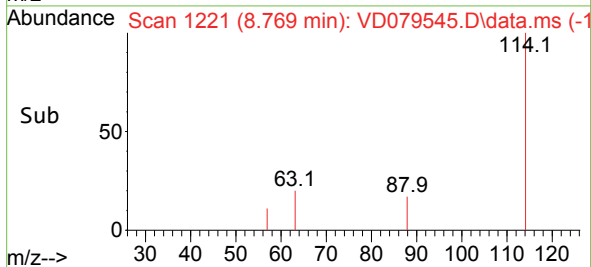
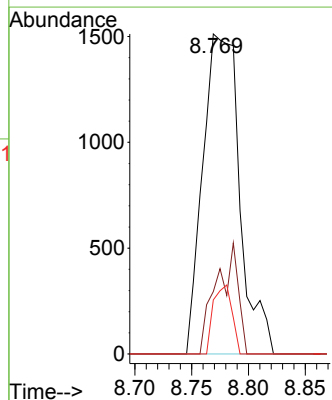
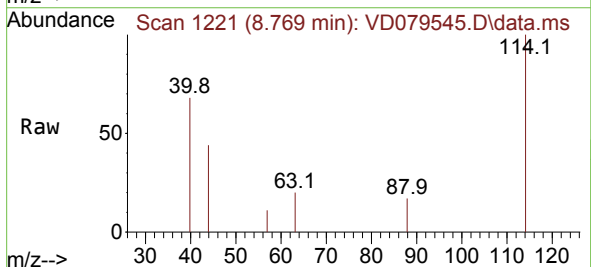
Tgt Ion: 114 Resp: 3415

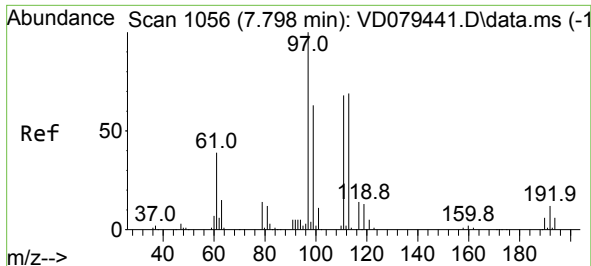
Ion Ratio Lower Upper

114 100

63 19.5 0.0 34.0

88 16.9 0.0 27.2





#35

Dibromofluoromethane

Concen: 110.365 ug/l

RT: 7.793 min Scan# 1055

Delta R.T. -0.012 min

Lab File: VD079545.D

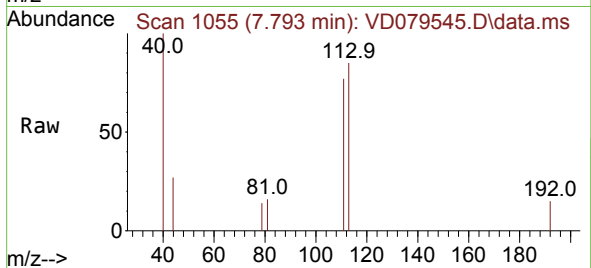
Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

RBR251686



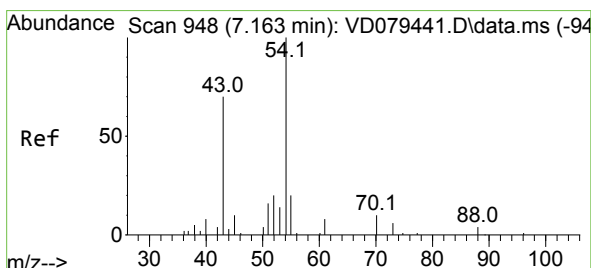
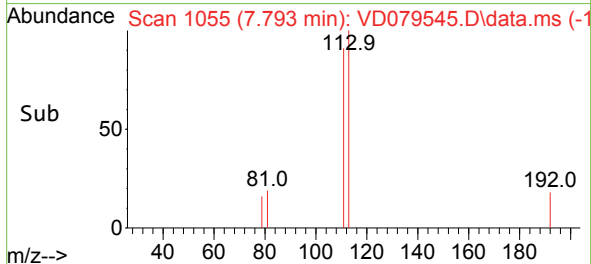
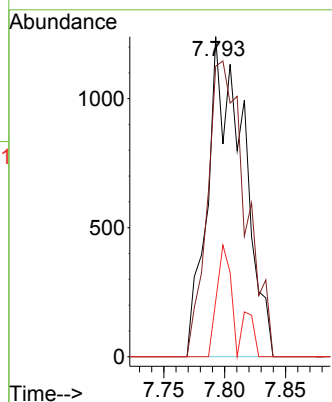
Tgt Ion:113 Resp: 2551

Ion Ratio Lower Upper

113 100

111 97.1 84.0 126.0

192 18.1 15.4 23.0



#37

Ethyl Acetate

Concen: 4.175 ug/l

RT: 6.963 min Scan# 914

Delta R.T. -0.212 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

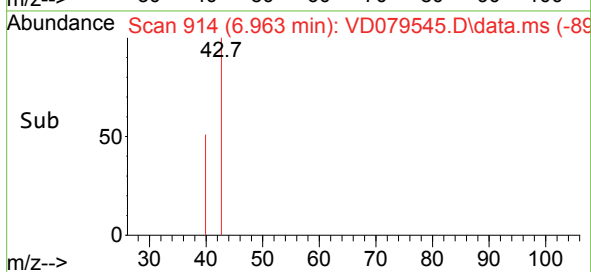
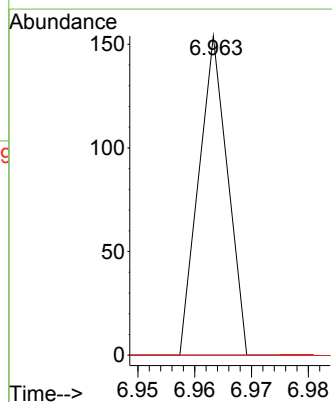
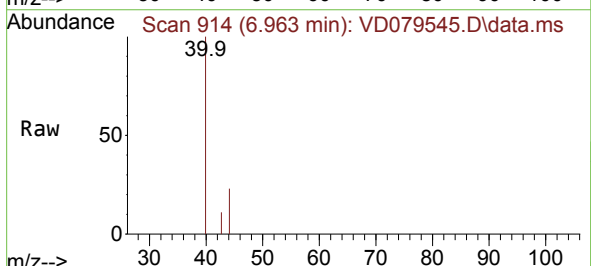
Tgt Ion: 43 Resp: 54

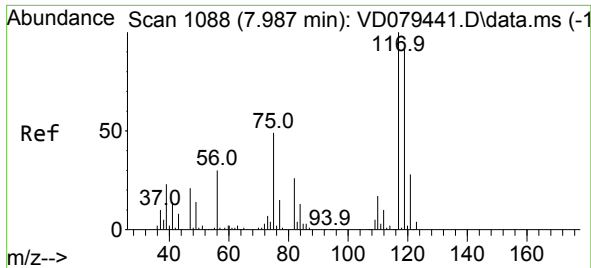
Ion Ratio Lower Upper

43 100

61 0.0 13.9 20.9#

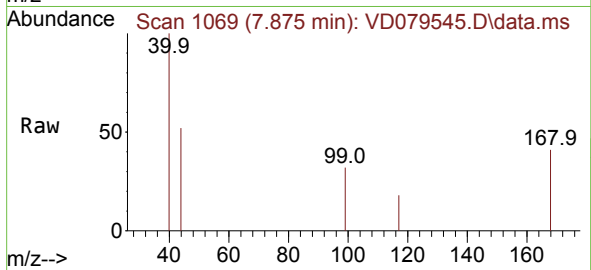
70 0.0 9.8 14.6#



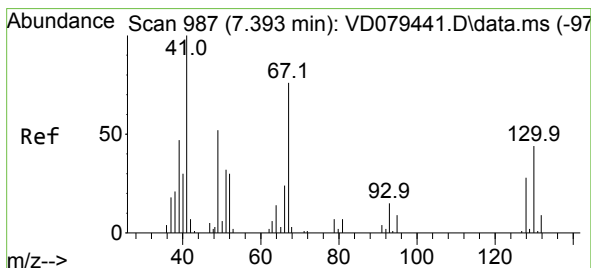
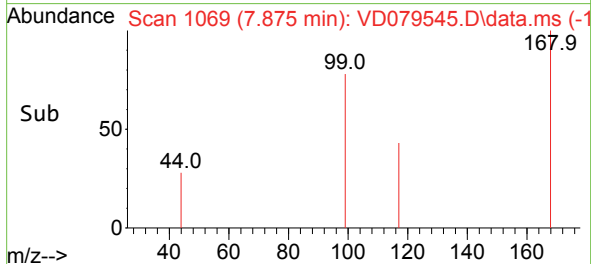
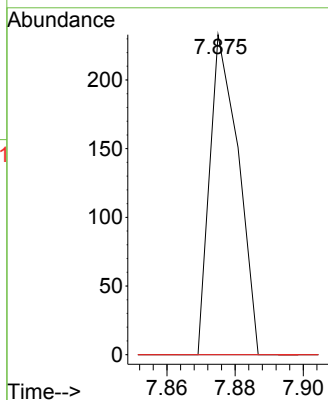


#38
Carbon Tetrachloride
Concen: 4.071 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.112 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Instrument :
MSVOA_D
ClientSampleId :
RBR251686

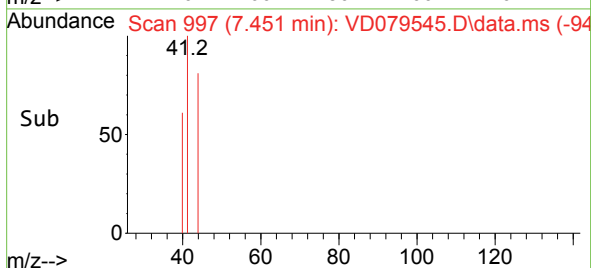
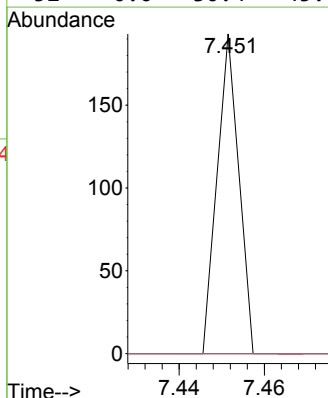
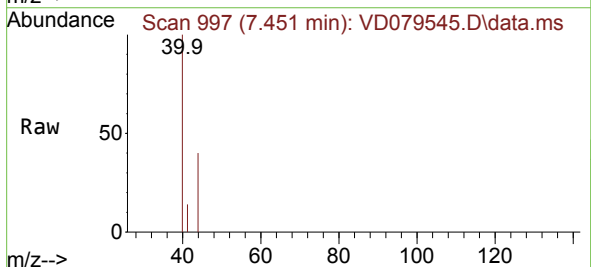


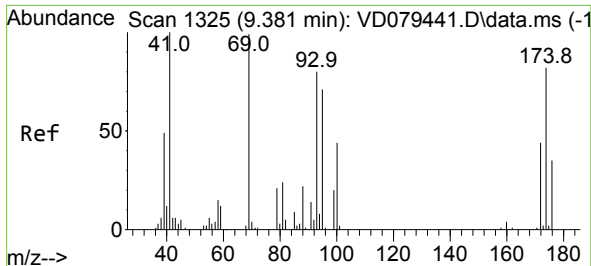
Tgt Ion:117 Resp: 135
Ion Ratio Lower Upper
117 100
119 0.0 75.4 113.0#
121 0.0 25.0 37.4#



#41
Methacrylonitrile
Concen: 9.557 ug/l
RT: 7.451 min Scan# 997
Delta R.T. 0.035 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

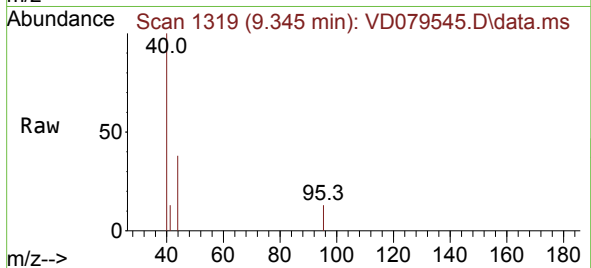
Tgt Ion: 41 Resp: 68
Ion Ratio Lower Upper
41 100
39 0.0 41.4 62.0#
67 0.0 85.8 128.6#
52 0.0 30.4 45.6#



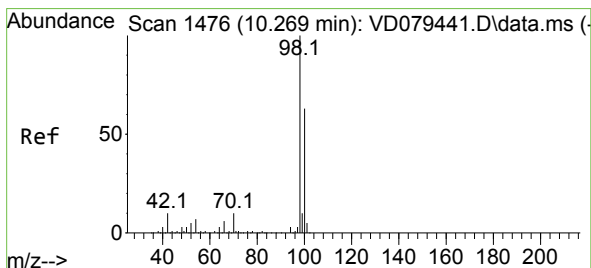
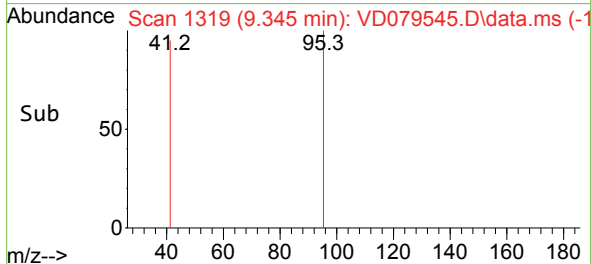
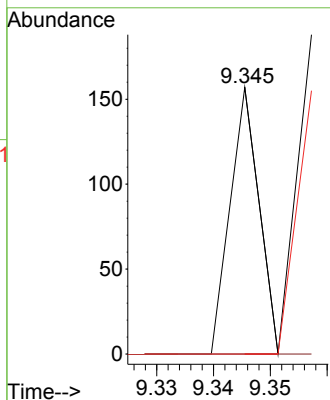


#48
Methyl methacrylate
Concen: 5.055 ug/l
RT: 9.345 min Scan# 1319
Delta R.T. -0.035 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Instrument :
MSVOA_D
ClientSampleId :
RBR251686

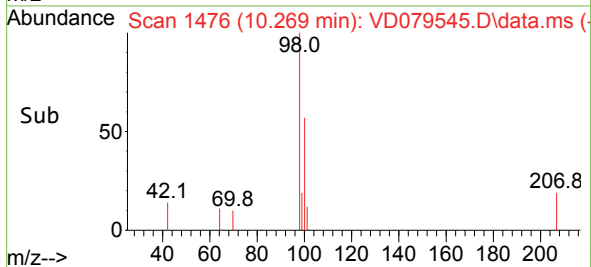
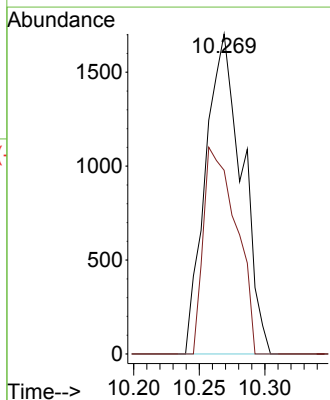
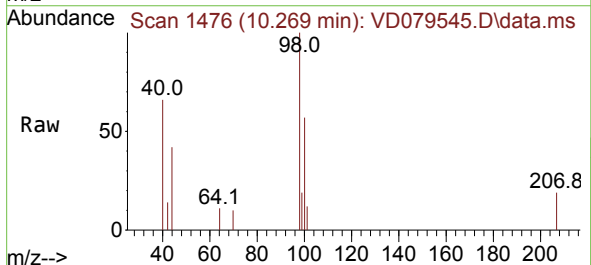


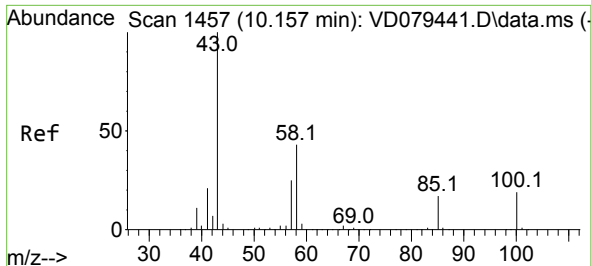
Tgt Ion: 41 Resp: 55
Ion Ratio Lower Upper
41 100
69 0.0 96.7 145.1#
39 100.0 43.8 65.6#



#50
Toluene-d8
Concen: 36.731 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion: 98 Resp: 3297
Ion Ratio Lower Upper
98 100
100 58.2 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 4.592 ug/l

RT: 10.169 min Scan# 1457

Delta R.T. 0.012 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

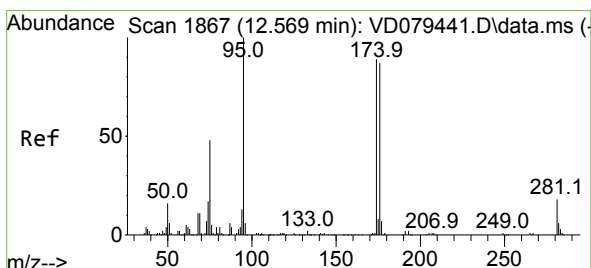
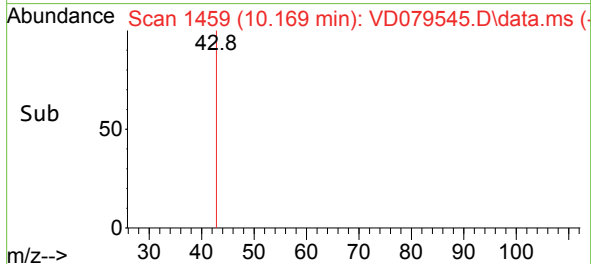
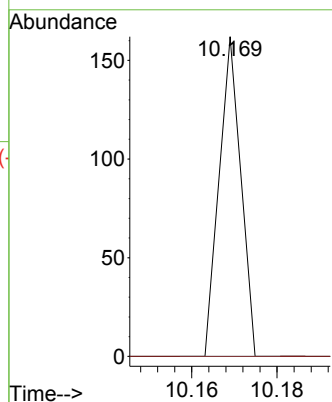
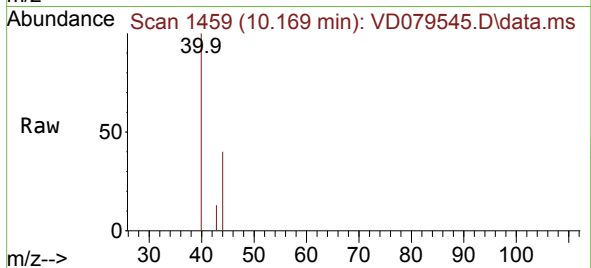
RBR251686

Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

43 100

58 0.0 36.6 55.0#



#62

4-Bromofluorobenzene

Concen: 26.410 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

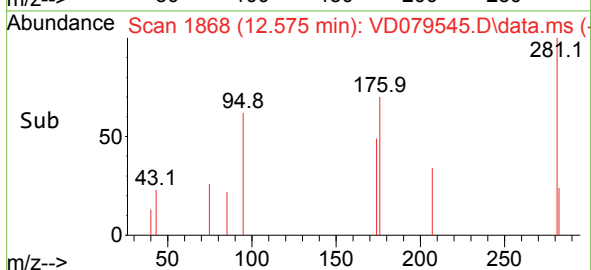
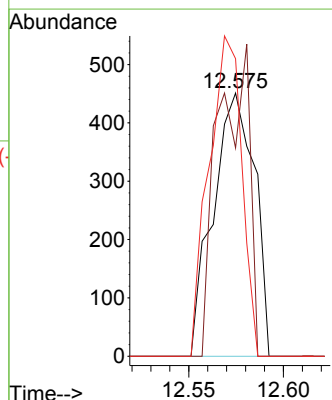
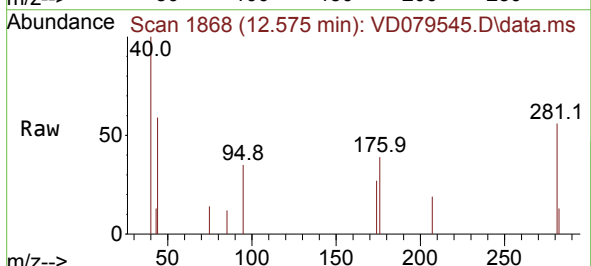
Tgt Ion: 95 Resp: 686

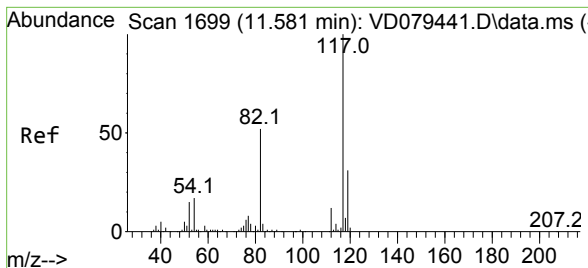
Ion Ratio Lower Upper

95 100

174 89.5 0.0 195.4

176 96.6 0.0 192.6

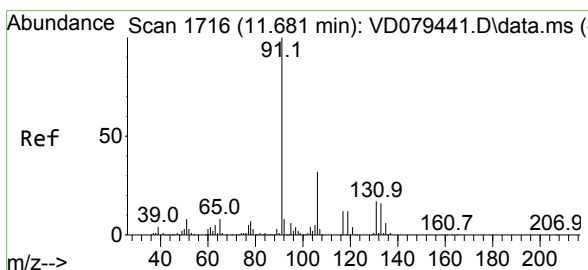
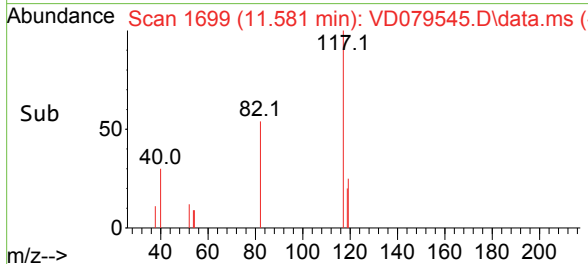
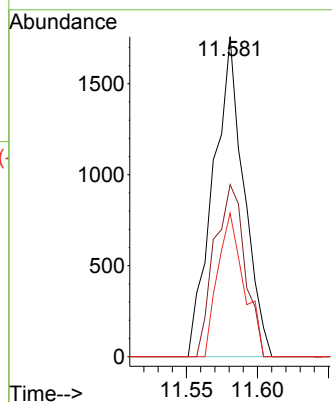
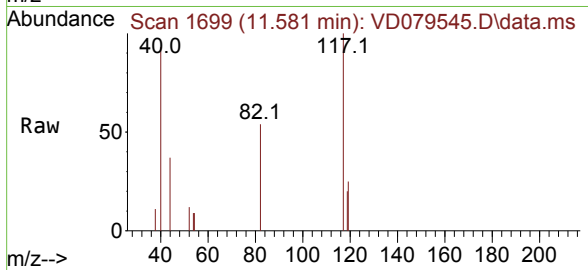




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

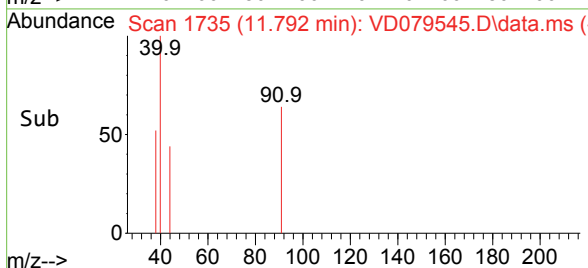
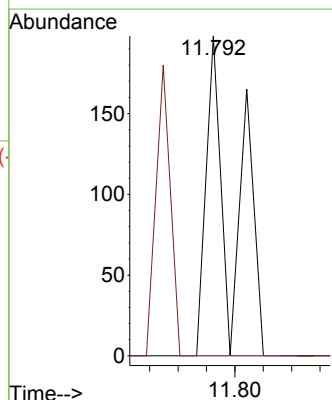
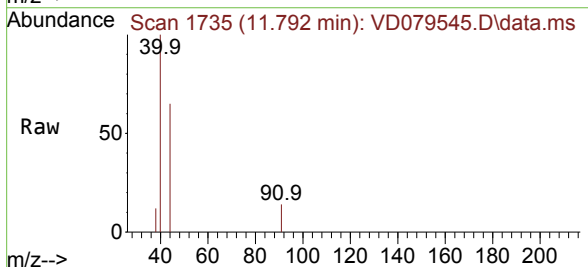
Instrument :
MSVOA_D
ClientSampleId :
RBR251686

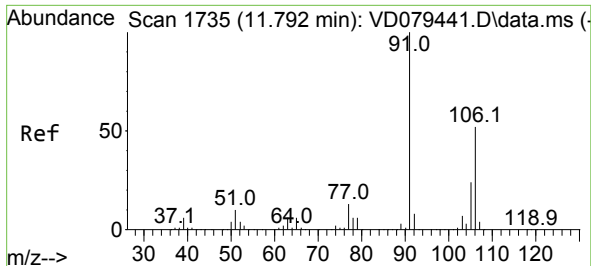
Tgt Ion:117 Resp: 2638
Ion Ratio Lower Upper
117 100
82 53.7 39.8 59.6
119 44.9 25.7 38.5#



#67
Ethyl Benzene
Concen: 1.338 ug/l
RT: 11.792 min Scan# 1735
Delta R.T. 0.112 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion: 91 Resp: 128
Ion Ratio Lower Upper
91 100
106 0.0 25.8 38.6#

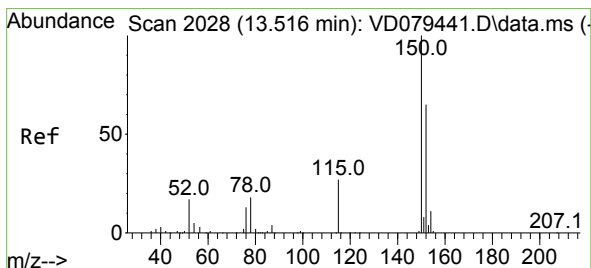
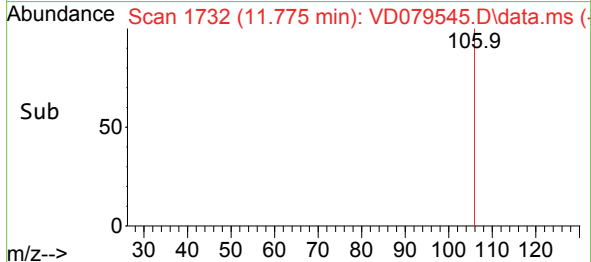
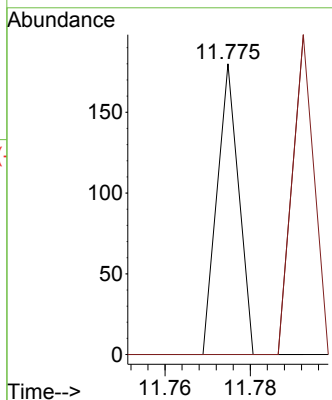
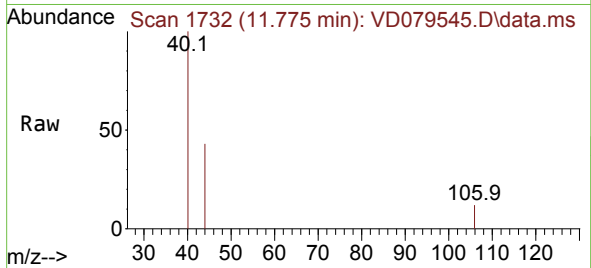




#68
m/p-Xylenes
Concen: 1.661 ug/l
RT: 11.775 min Scan# 11
Delta R.T. -0.018 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

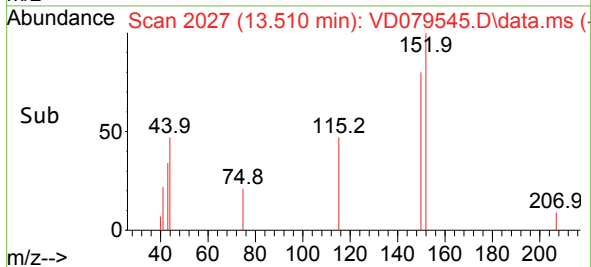
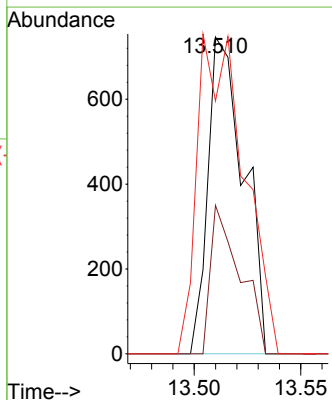
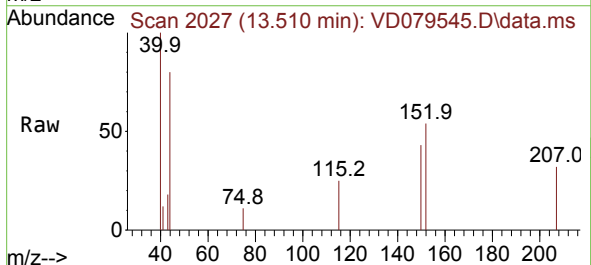
Instrument :
MSVOA_D
ClientSampleId :
RBR251686

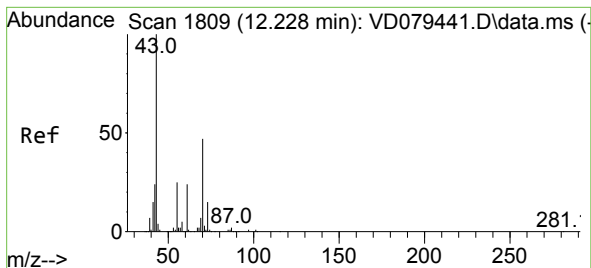
Tgt Ion:106 Resp: 63
Ion Ratio Lower Upper
106 100
91 203.2 148.5 222.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.510 min Scan# 2027
Delta R.T. -0.000 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion:152 Resp: 875
Ion Ratio Lower Upper
152 100
115 38.5 26.5 79.5
150 131.3 0.0 341.6





#74

N-amy1 acetate

Concen: 4.196 ug/l

RT: 12.245 min Scan# 1812

Delta R.T. 0.012 min

Lab File: VD079545.D

Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

RBR251686

Tgt Ion: 43 Resp: 54

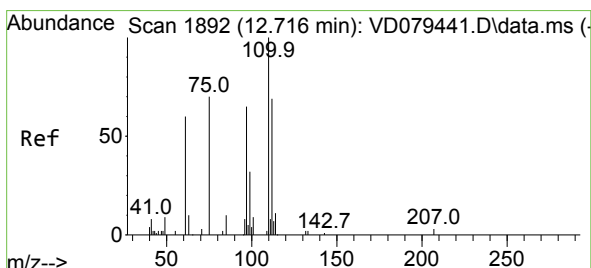
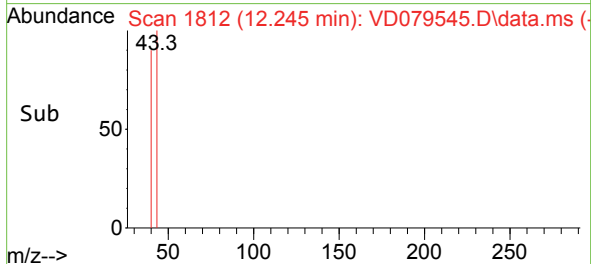
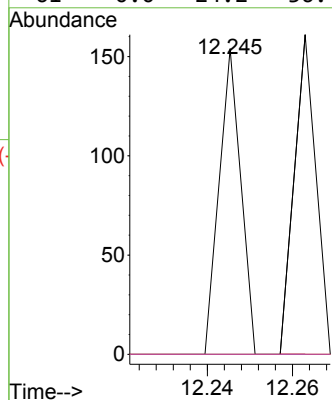
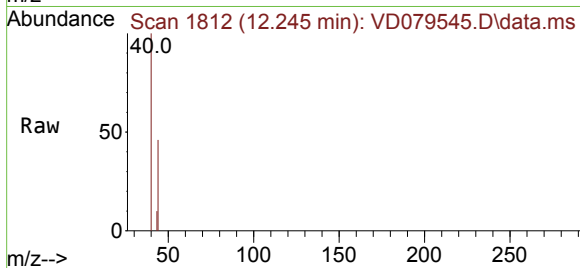
Ion Ratio Lower Upper

43 100

70 0.0 44.3 66.5#

55 0.0 23.2 34.8#

61 0.0 24.2 36.4#



#76

1,2,3-Trichloropropane

Concen: 34.779 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.153 min

Lab File: VD079545.D

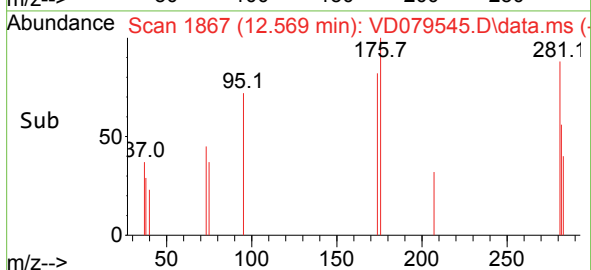
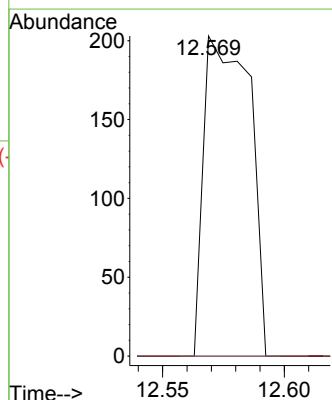
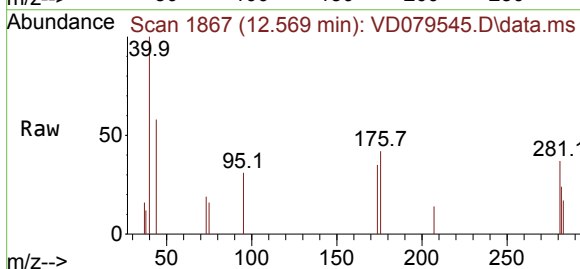
Acq: 02 Aug 2024 16:32

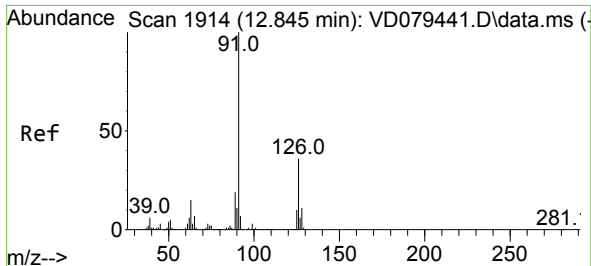
Tgt Ion: 75 Resp: 266

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

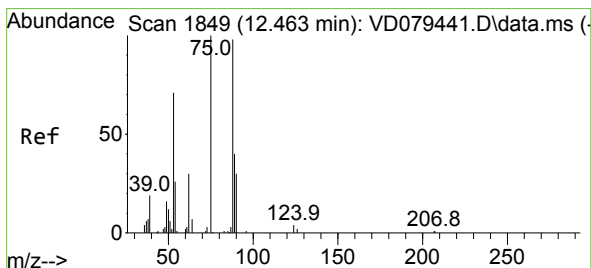
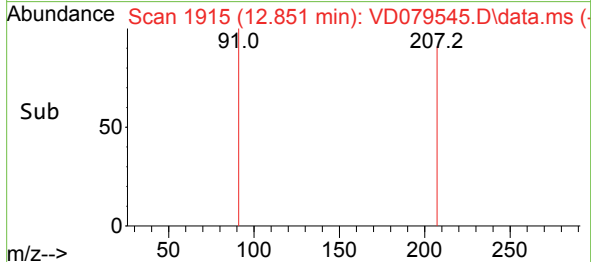
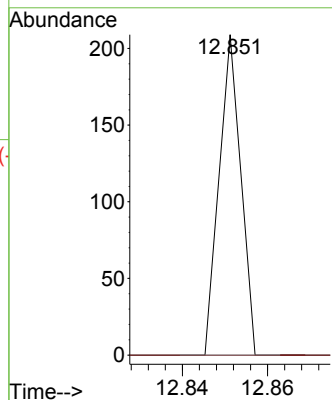
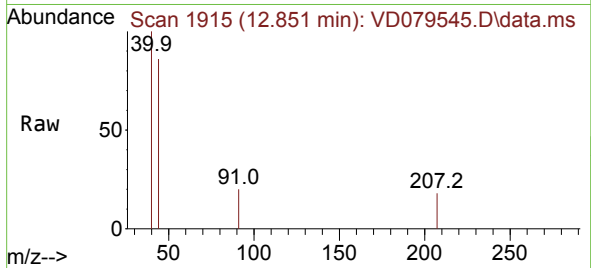




#79
2-Chlorotoluene
Concen: 1.817 ug/l
RT: 12.851 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

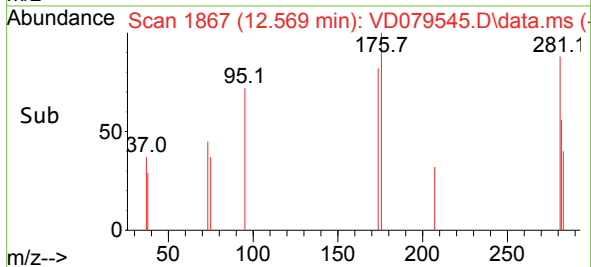
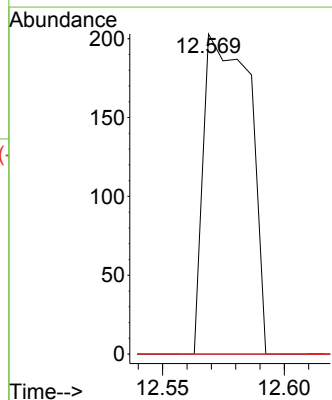
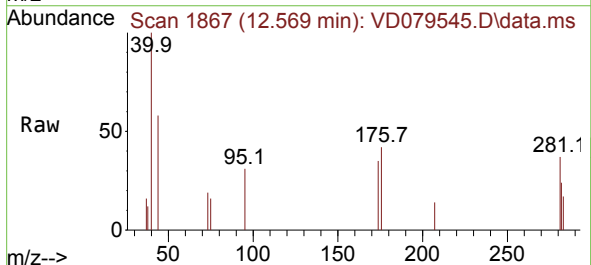
Instrument :
MSVOA_D
ClientSampleId :
RBR251686

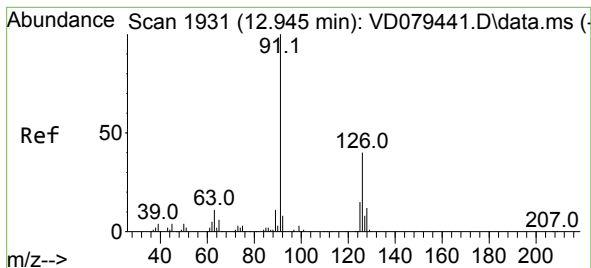
Tgt Ion: 91 Resp: 74
Ion Ratio Lower Upper
91 100
126 0.0 19.3 57.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.332 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion: 75 Resp: 266
Ion Ratio Lower Upper
75 100
53 0.0 61.4 92.2#
89 0.0 35.4 53.0#

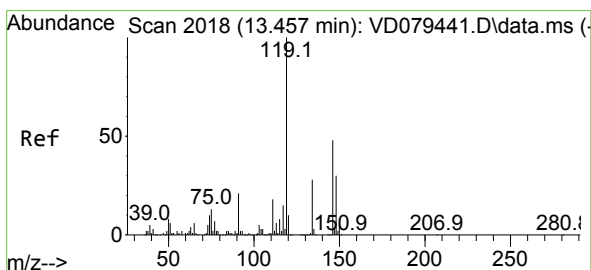
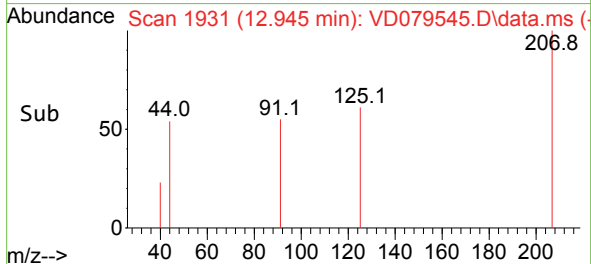
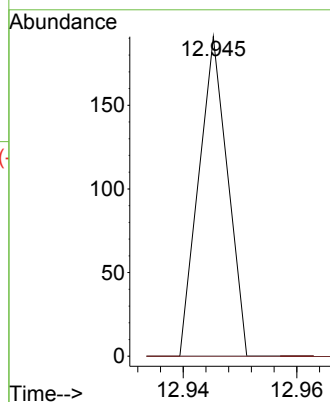
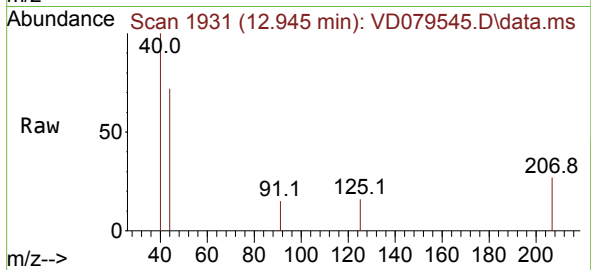




#82
4-Chlorotoluene
Concen: 1.578 ug/l
RT: 12.945 min Scan# 1931
Delta R.T. -0.000 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

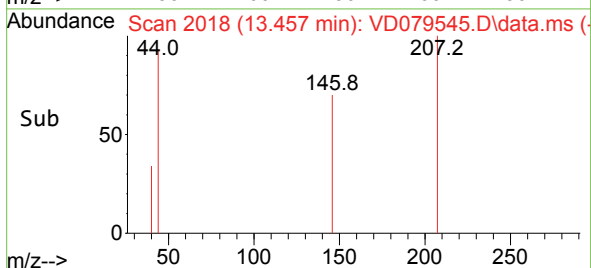
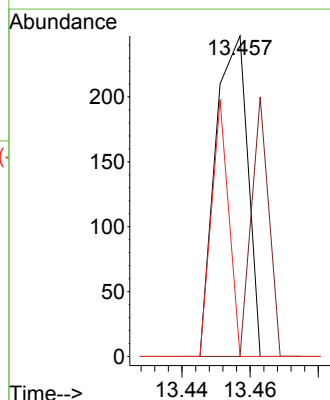
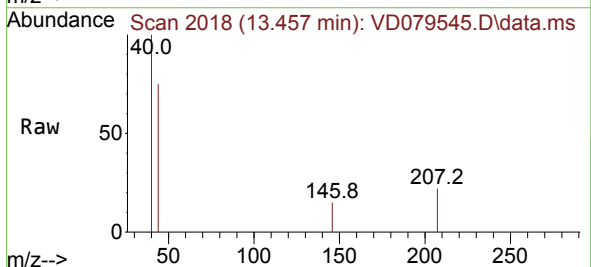
Instrument :
MSVOA_D
ClientSampleId :
RBR251686

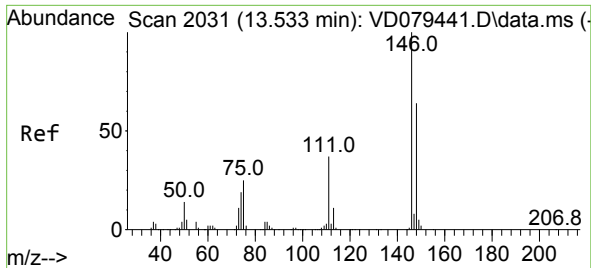
Tgt Ion: 91 Resp: 67
Ion Ratio Lower Upper
91 100
126 0.0 18.9 56.9#



#87
1,3-Dichlorobenzene
Concen: 5.298 ug/l
RT: 13.457 min Scan# 2018
Delta R.T. 0.006 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion:146 Resp: 161
Ion Ratio Lower Upper
146 100
111 44.1 18.5 55.5
148 43.5 30.9 92.8

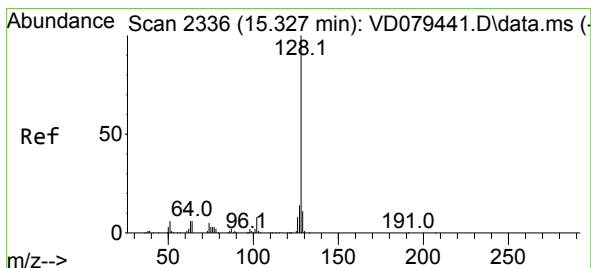
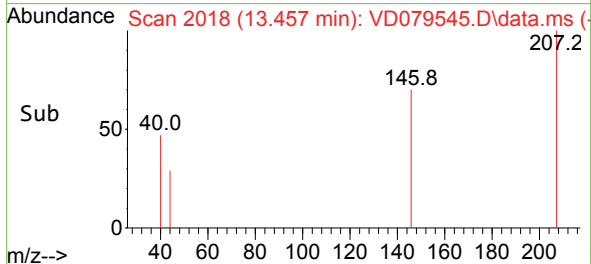
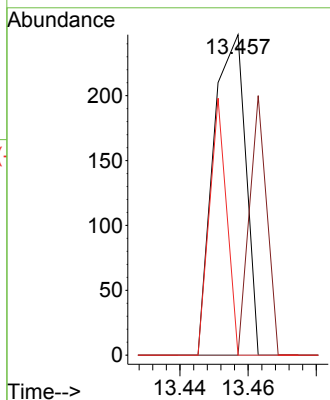
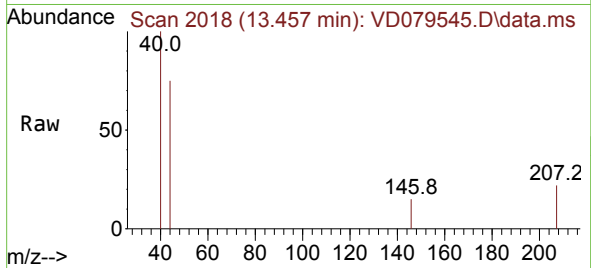




#88
1,4-Dichlorobenzene
Concen: 5.388 ug/l
RT: 13.457 min Scan# 2031
Delta R.T. -0.077 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

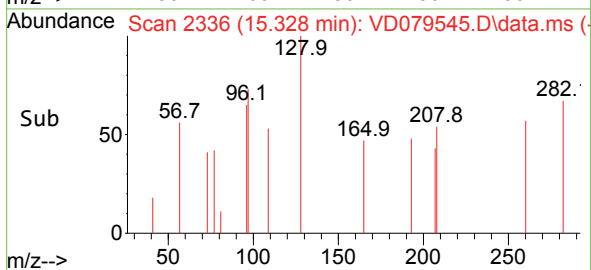
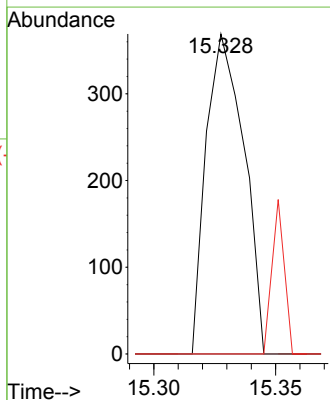
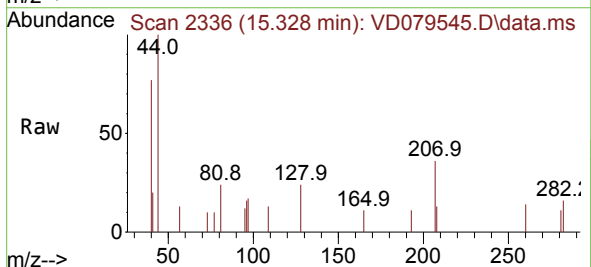
Instrument :
MSVOA_D
ClientSampleId :
RBR251686

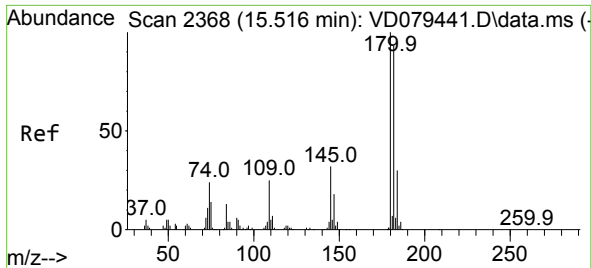
Tgt Ion:	146	Resp:	161
Ion Ratio	Lower	Upper	
146	100		
111	44.1	17.5	52.6
148	43.5	31.4	94.2



#95
Naphthalene
Concen: 14.051 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VD079545.D
Acq: 02 Aug 2024 16:32

Tgt Ion:	128	Resp:	398
Ion Ratio	Lower	Upper	
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#





#96

1,2,3-Trichlorobenzene

Concen: 8.266 ug/l

RT: 15.528 min Scan# 21

Delta R.T. 0.006 min

Lab File: VD079545.D

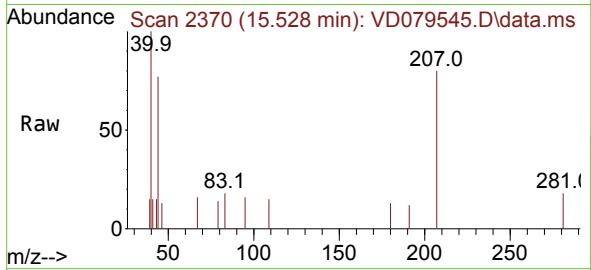
Acq: 02 Aug 2024 16:32

Instrument :

MSVOA_D

ClientSampleId :

RBR251686



Tgt Ion:180 Resp: 119

Ion Ratio Lower Upper

180 100

182 111.8 47.8 143.3

145 0.0 16.1 48.2#

