

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD073024\
 Data File : VD079483.D
 Acq On : 31 Jul 2024 05:08
 Operator : RP/MD
 Sample : P3374-06
 Misc : 9.40G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-861-K2-SO-13.5-14-072024

Quant Time: Jul 31 08:21:10 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)

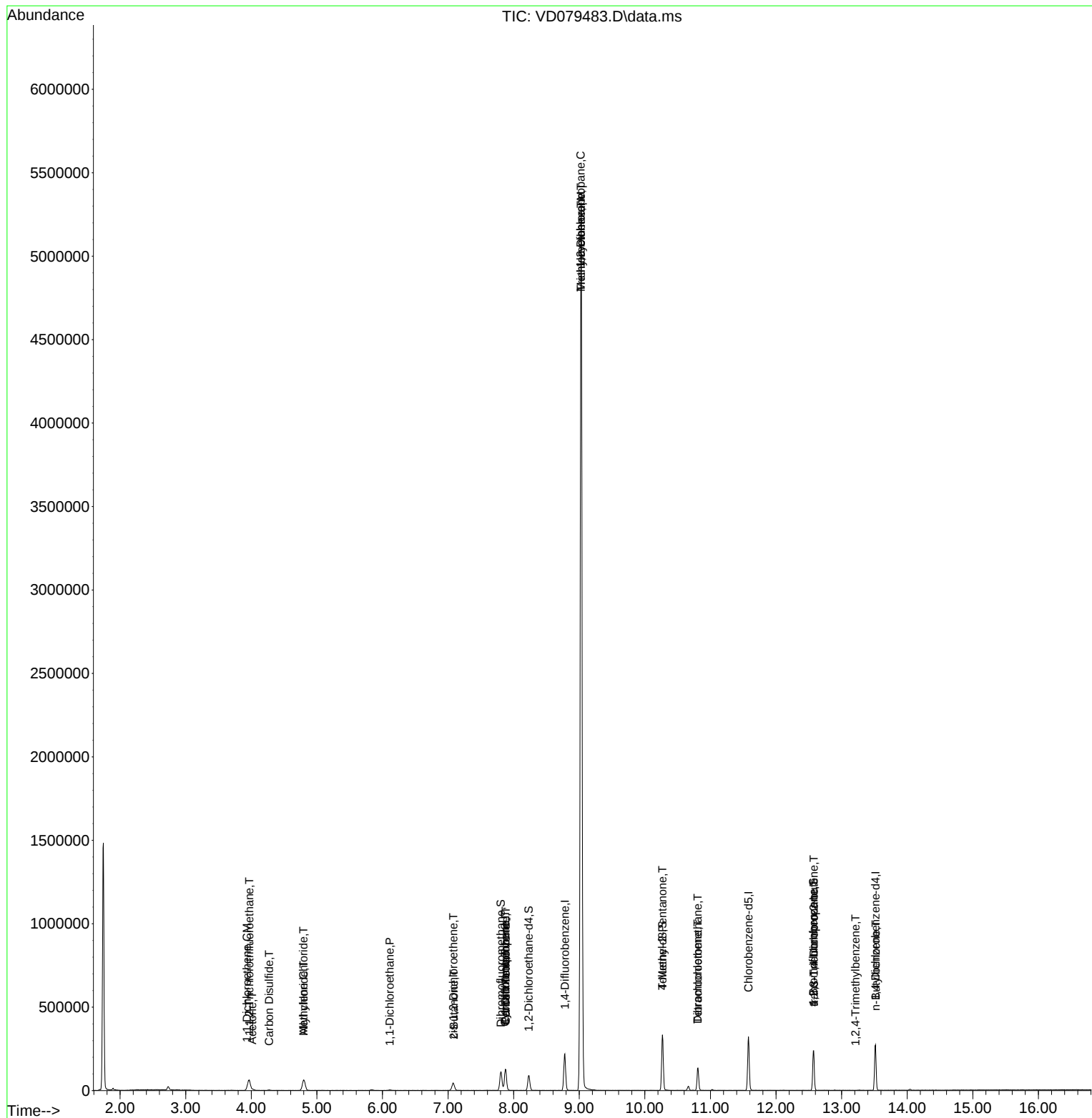
Internal Standards						
1) Pentafluorobenzene	7.875	168	104179	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	200868	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	195815	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	79463	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	70211	66.339	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 132.680%			
35) Dibromofluoromethane	7.804	113	81440	59.901	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 119.800%			
50) Toluene-d8	10.269	98	239647	45.390	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.780%			
62) 4-Bromofluorobenzene	12.569	95	66107	43.268	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.540%			
Target Compounds						
5) Bromomethane	2.705	94	233	Below Cal		82
9) 1,1,2-Trichlorotrifluo...	3.969	101	42026	37.363	ug/l	99
11) Tert butyl alcohol	5.046	59	58	Below Cal	#	86
12) 1,1-Dichloroethene	3.934	96	3865	3.434	ug/l	88
14) Allyl chloride	4.799	41	2059	1.385	ug/l #	17
16) Acetone	4.016	43	10299	50.072	ug/l #	77
17) Carbon Disulfide	4.269	76	4795	1.291	ug/l	99
20) Methylene Chloride	4.793	84	51991	28.540	ug/l	93
24) 1,1-Dichloroethane	6.110	63	4548	2.052	ug/l #	82
25) 2-Butanone	7.087	43	1646	5.645	ug/l #	56
27) cis-1,2-Dichloroethene	7.081	96	24062	16.647	ug/l	96
31) Cyclohexane	7.869	56	2512	1.429	ug/l #	46
36) 1,1-Dichloropropene	7.875	75	8044	4.335	ug/l #	45
38) Carbon Tetrachloride	7.881	117	9901	5.075	ug/l #	16
39) Methylcyclohexane	9.028	83	23675	10.693	ug/l #	1
44) Trichloroethene	9.028	130	2011007	1370.648	ug/l	97
45) 1,2-Dichloropropane	9.022	63	4256	2.967	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	984	1.348	ug/l #	1
60) Dibromochloromethane	10.804	129	28427	20.775	ug/l #	11
64) Tetrachloroethene	10.804	164	33869	25.651	ug/l	86
76) 1,2,3-Trichloropropane	12.575	75	33769	48.618	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	33769	92.727	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.210	105	55	3.439	ug/l #	29
89) n-Butylbenzene	13.522	91	56	3.792	ug/l #	34

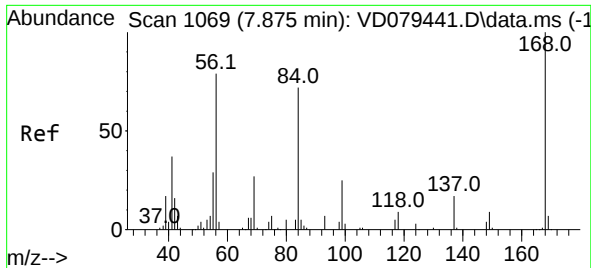
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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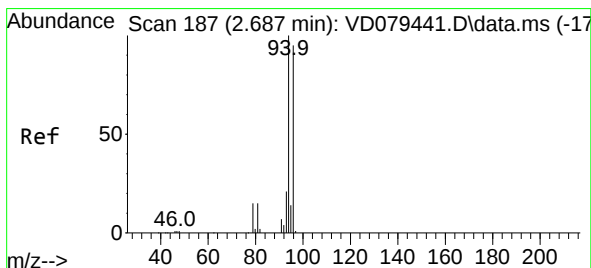
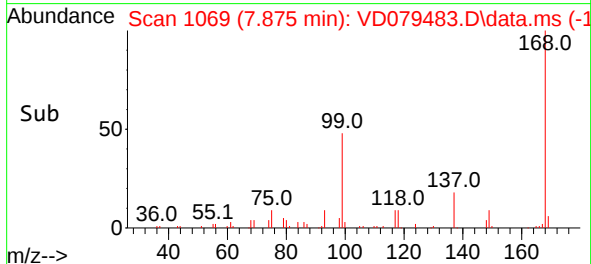
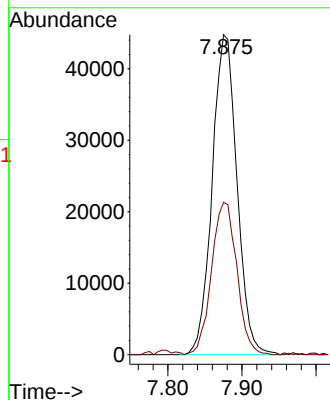
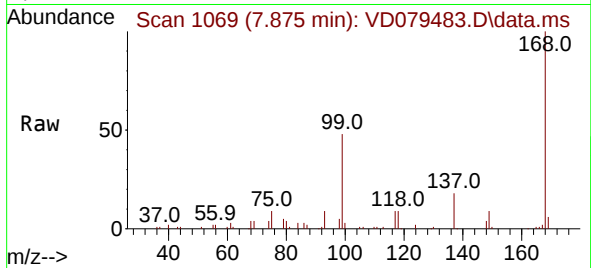




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

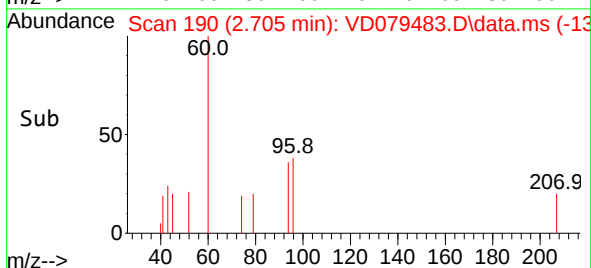
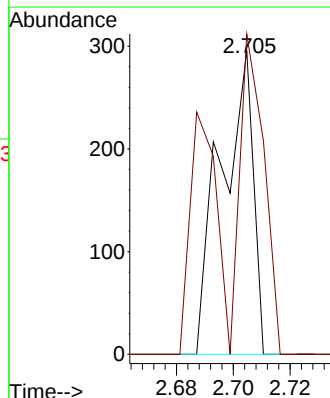
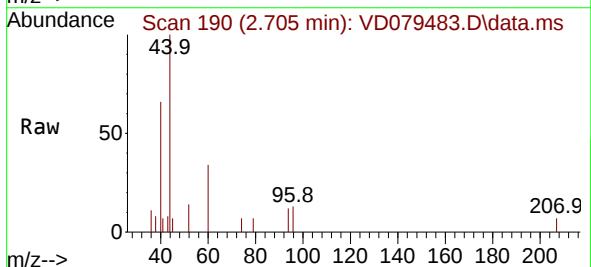
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

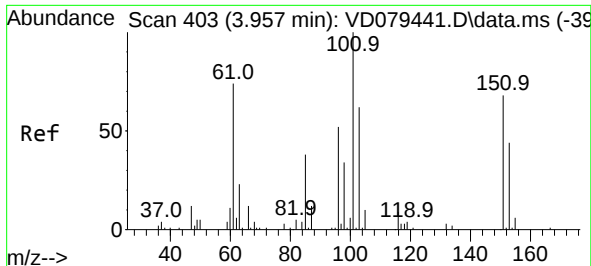
Tgt Ion:168 Resp: 104179
Ion Ratio Lower Upper
168 100
99 47.6 41.1 61.7



#5
Bromomethane
Concen: Below Cal
RT: 2.705 min Scan# 190
Delta R.T. 0.018 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 94 Resp: 233
Ion Ratio Lower Upper
94 100
96 78.5 76.9 115.3

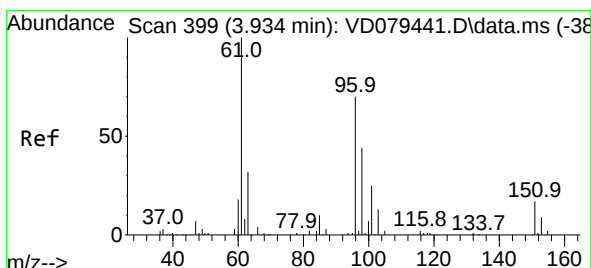
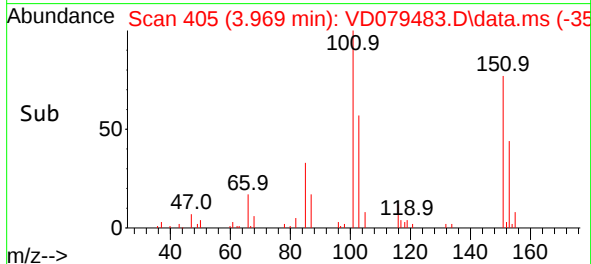
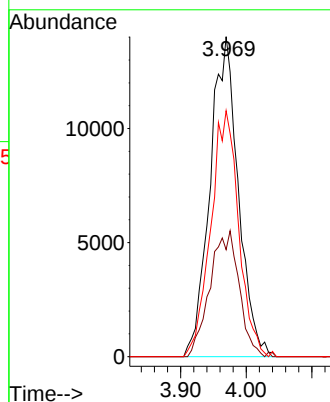
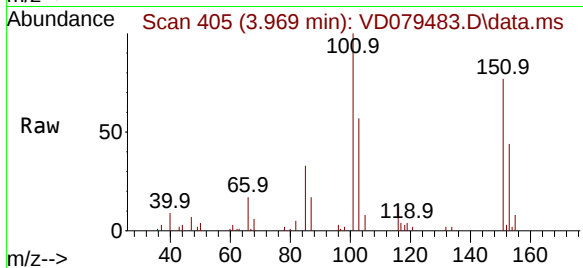




#9
1,1,2-Trichlorotrifluoroethane
Concen: 37.363 ug/l
RT: 3.969 min Scan# 403
Delta R.T. 0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

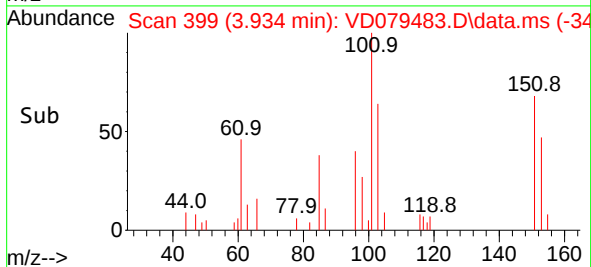
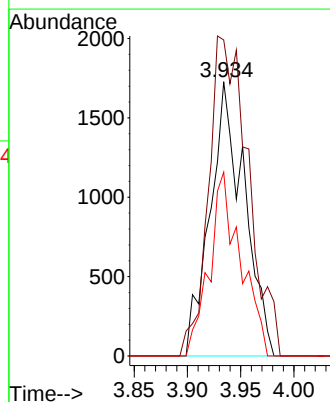
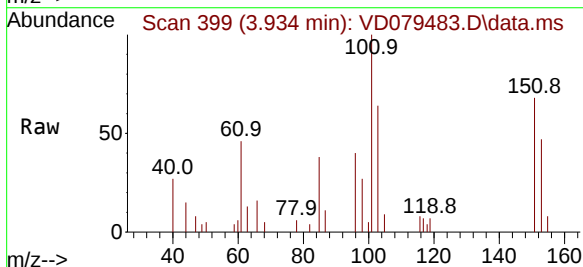
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

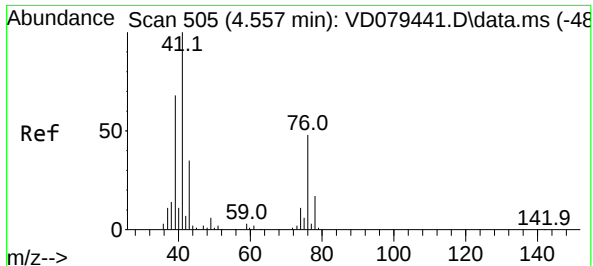
Tgt Ion:101 Resp: 42026
Ion Ratio Lower Upper
101 100
85 40.3 33.5 50.3
151 75.7 60.3 90.5



#12
1,1-Dichloroethene
Concen: 3.434 ug/l
RT: 3.934 min Scan# 399
Delta R.T. 0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 96 Resp: 3865
Ion Ratio Lower Upper
96 100
61 115.2 107.3 160.9
98 67.0 51.7 77.5

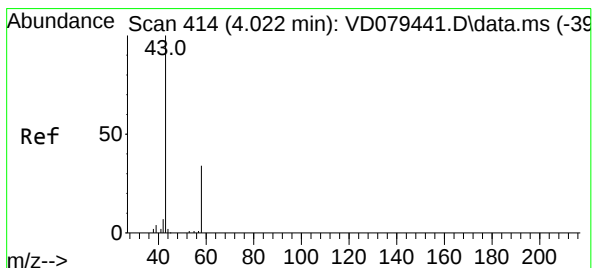
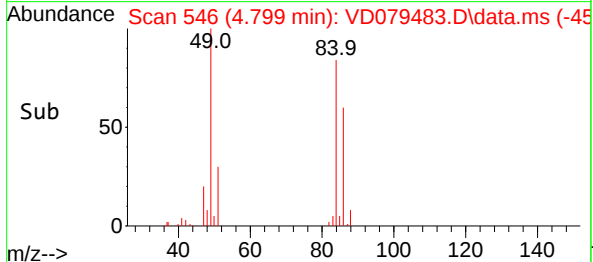
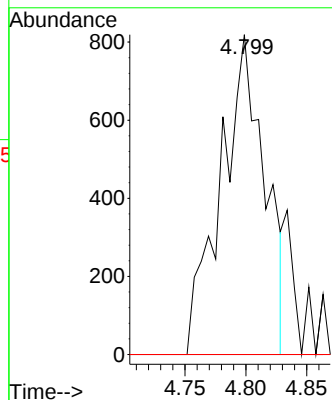
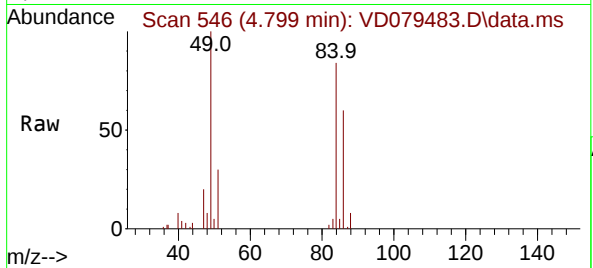




#14
Allyl chloride
Concen: 1.385 ug/l
RT: 4.799 min Scan# 54
Delta R.T. 0.247 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

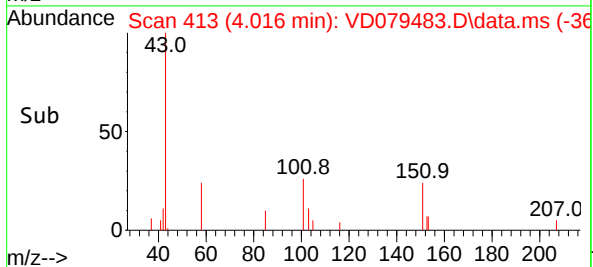
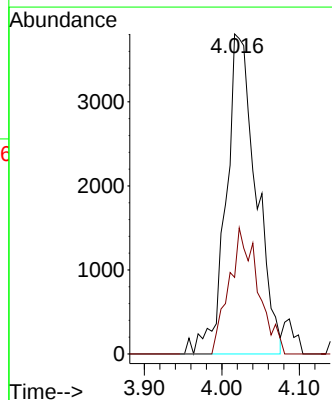
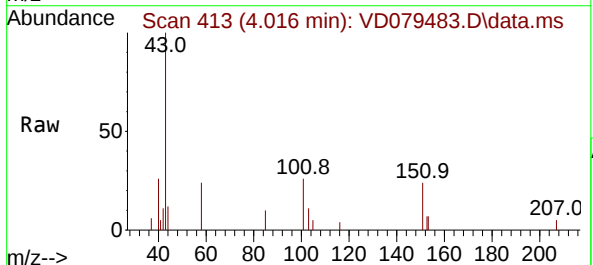
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

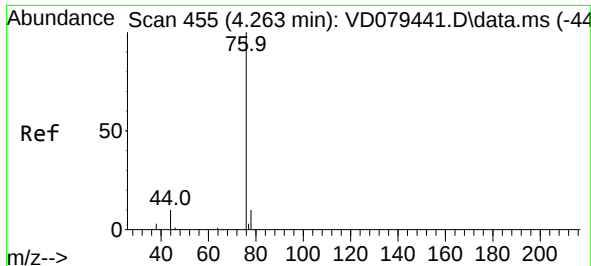
Tgt Ion: 41 Resp: 2059
Ion Ratio Lower Upper
41 100
39 0.0 58.0 87.0#
76 0.0 45.9 68.9#



#16
Acetone
Concen: 50.072 ug/l
RT: 4.016 min Scan# 413
Delta R.T. -0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 43 Resp: 10299
Ion Ratio Lower Upper
43 100
58 23.9 30.4 45.6#

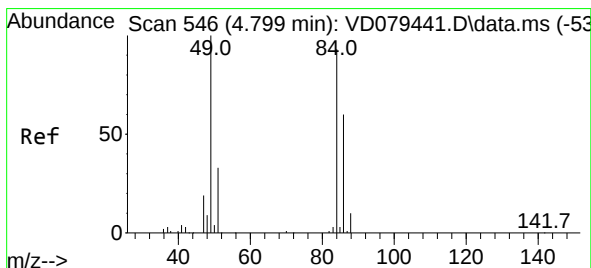
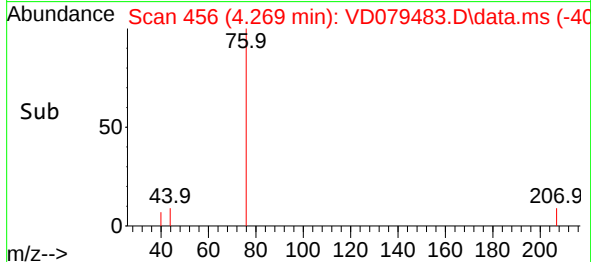
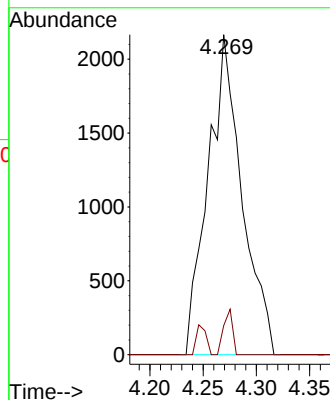
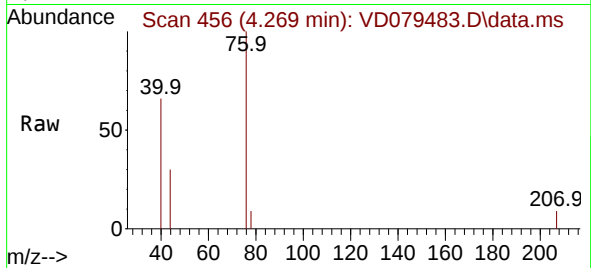




#17
Carbon Disulfide
Concen: 1.291 ug/l
RT: 4.269 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

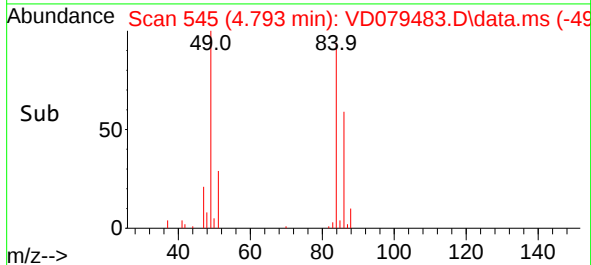
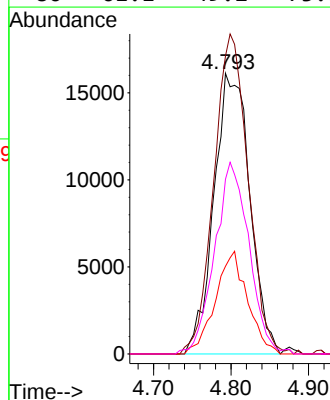
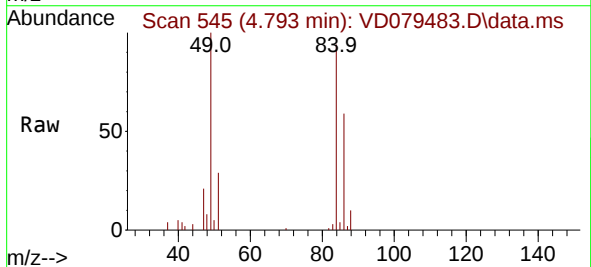
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

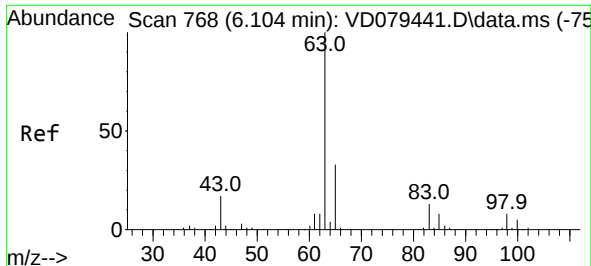
Tgt Ion: 76 Resp: 4795
Ion Ratio Lower Upper
76 100
78 9.1 6.9 10.3



#20
Methylene Chloride
Concen: 28.540 ug/l
RT: 4.793 min Scan# 545
Delta R.T. -0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 84 Resp: 51991
Ion Ratio Lower Upper
84 100
49 106.2 75.6 113.4
51 31.3 24.2 36.2
86 61.1 49.2 73.8





#24

1,1-Dichloroethane

Concen: 2.052 ug/l

RT: 6.110 min Scan# 7

Delta R.T. 0.006 min

Lab File: VD079483.D

Acq: 31 Jul 2024 05:08

Instrument :

MSVOA_D

ClientSampleId :

S-861-K2-SO-13.5-14-072024

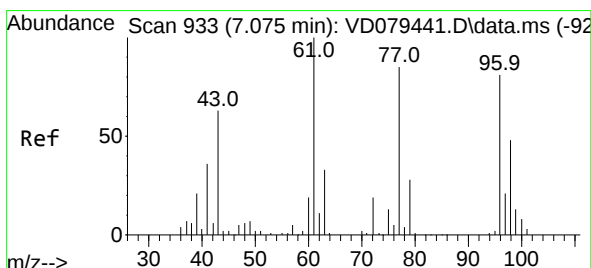
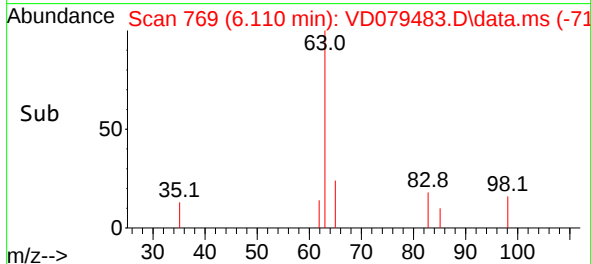
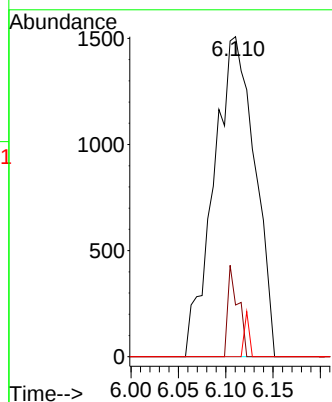
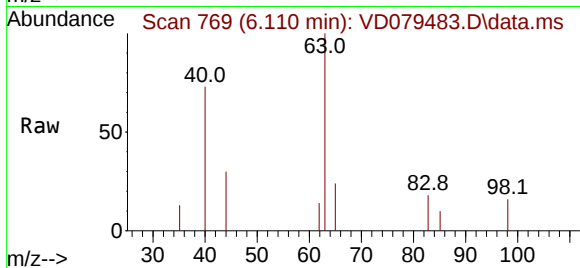
Tgt Ion: 63 Resp: 4548

Ion Ratio Lower Upper

63 100

98 16.2 4.7 14.0#

100 0.0 2.9 8.6#



#25

2-Butanone

Concen: 5.645 ug/l

RT: 7.087 min Scan# 935

Delta R.T. -0.006 min

Lab File: VD079483.D

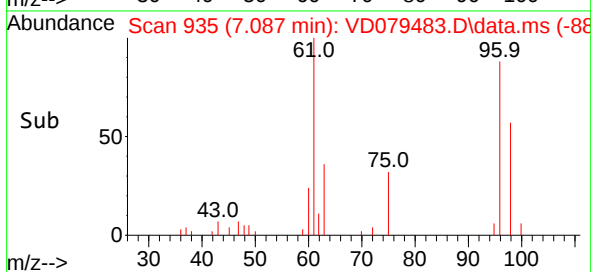
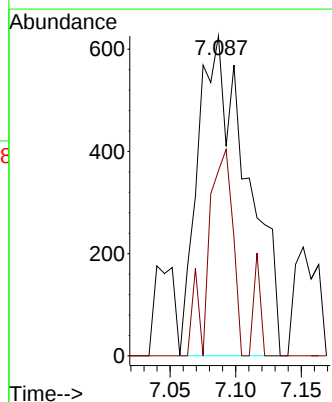
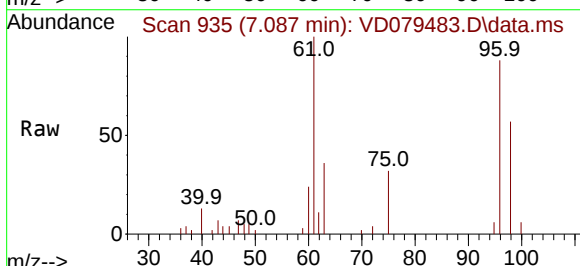
Acq: 31 Jul 2024 05:08

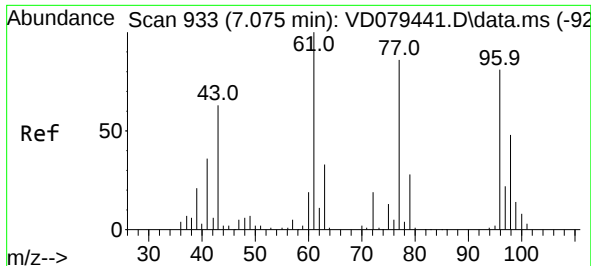
Tgt Ion: 43 Resp: 1646

Ion Ratio Lower Upper

43 100

72 57.8 26.4 39.6#





#27

cis-1,2-Dichloroethene

Concen: 16.647 ug/l

RT: 7.081 min Scan# 91

Delta R.T. 0.006 min

Lab File: VD079483.D

Acq: 31 Jul 2024 05:08

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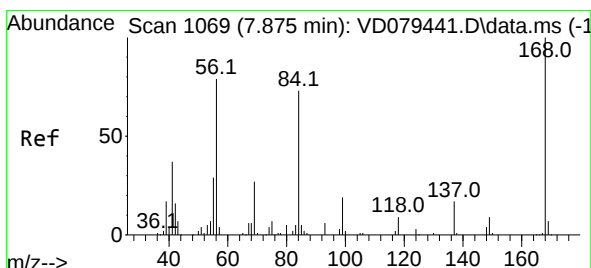
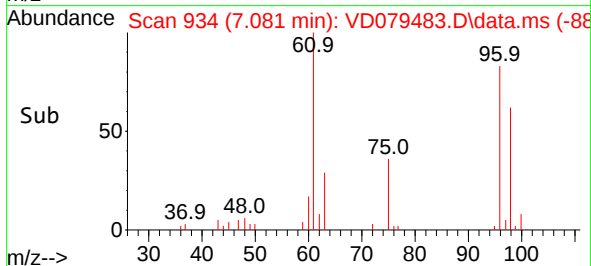
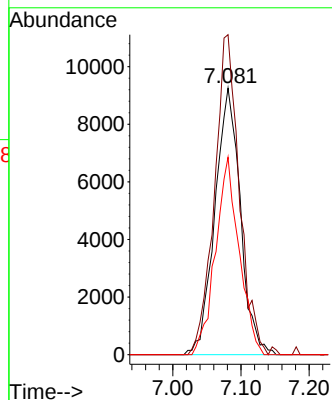
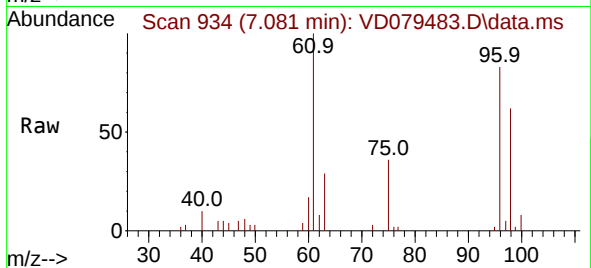
Tgt Ion: 96 Resp: 24062

Ion Ratio Lower Upper

96 100

61 117.2 0.0 229.0

98 68.8 0.0 127.2



#31

Cyclohexane

Concen: 1.429 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.012 min

Lab File: VD079483.D

Acq: 31 Jul 2024 05:08

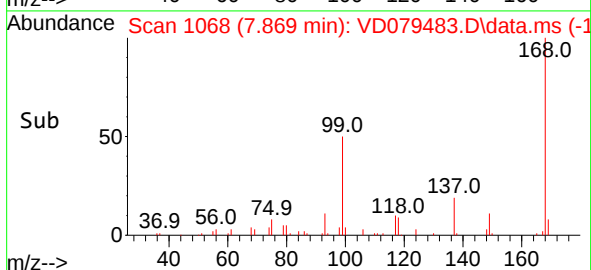
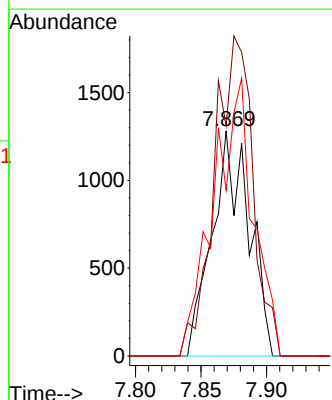
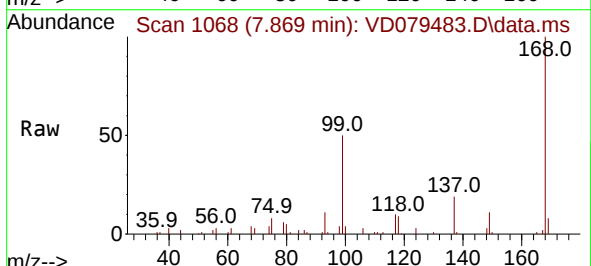
Tgt Ion: 56 Resp: 2512

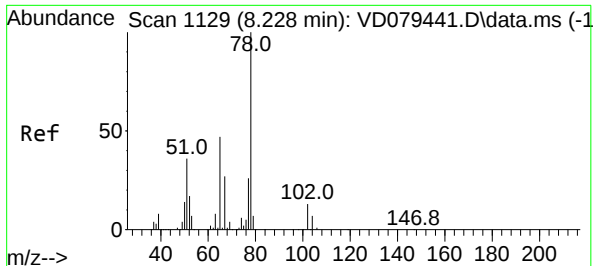
Ion Ratio Lower Upper

56 100

69 102.3 28.0 42.0#

84 73.6 87.4 131.0#





#33

1,2-Dichloroethane-d4

Concen: 66.339 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD079483.D

Acq: 31 Jul 2024 05:08

Instrument :

MSVOA_D

ClientSampleId :

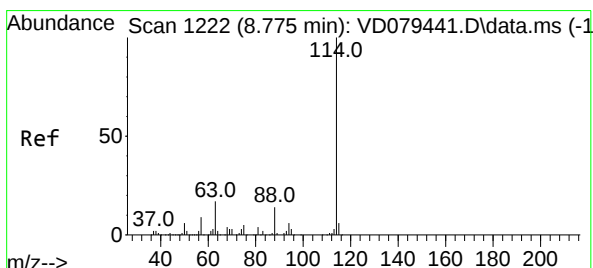
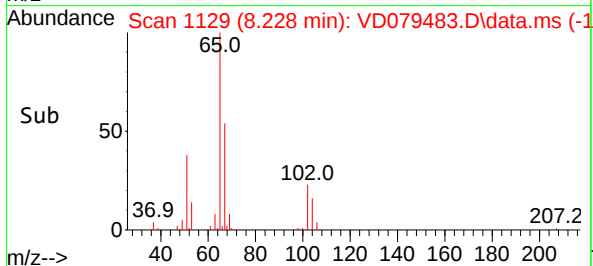
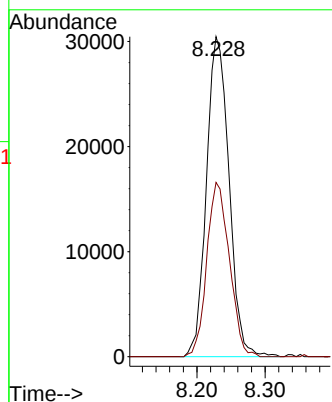
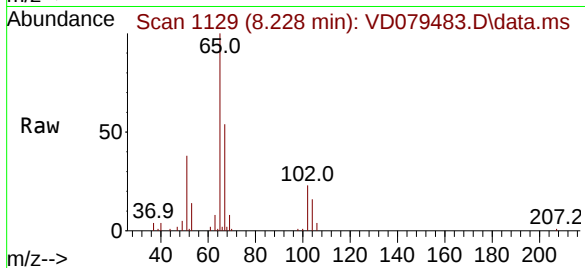
S-861-K2-SO-13.5-14-072024

Tgt Ion: 65 Resp: 70211

Ion Ratio Lower Upper

65 100

67 54.5 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD079483.D

Acq: 31 Jul 2024 05:08

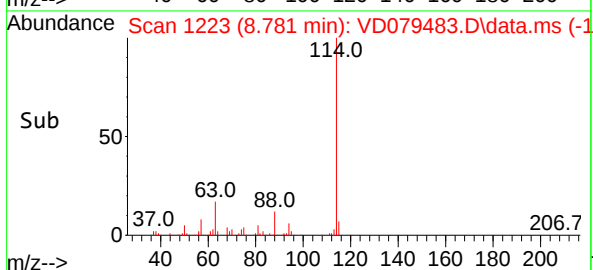
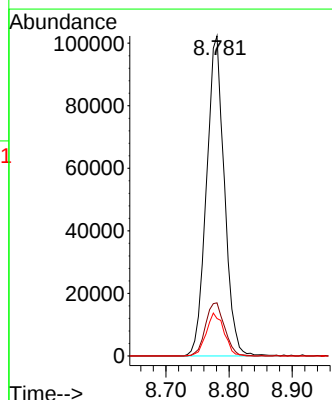
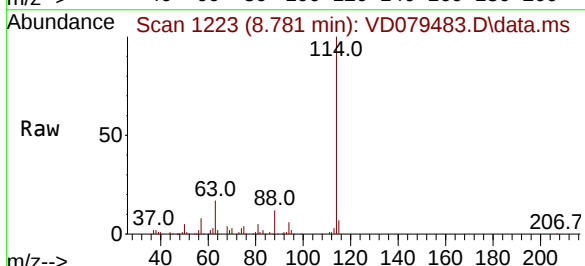
Tgt Ion: 114 Resp: 200868

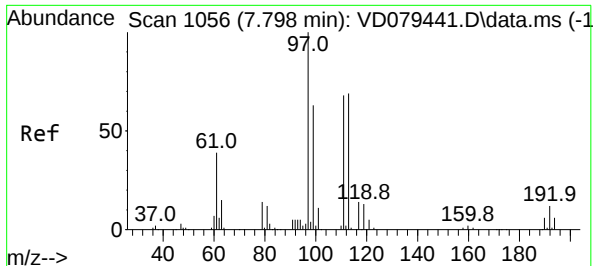
Ion Ratio Lower Upper

114 100

63 16.6 0.0 34.0

88 11.7 0.0 27.2





#35

Dibromofluoromethane

Concen: 59.901 ug/l

RT: 7.804 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VD079483.D

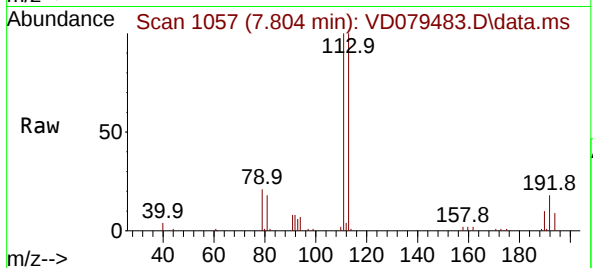
Acq: 31 Jul 2024 05:08

Instrument :

MSVOA_D

ClientSampleId :

S-861-K2-SO-13.5-14-072024



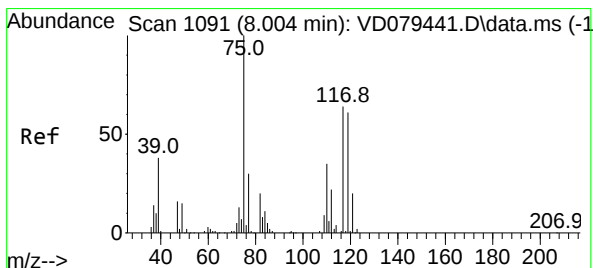
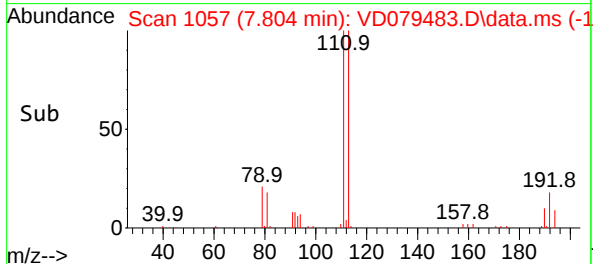
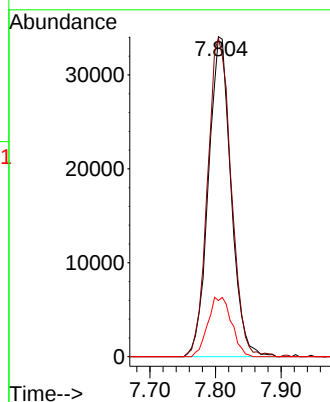
Tgt Ion:113 Resp: 81440

Ion Ratio Lower Upper

113 100

111 104.0 84.0 126.0

192 19.5 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.335 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD079483.D

Acq: 31 Jul 2024 05:08

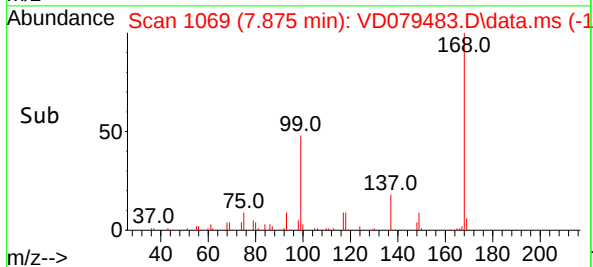
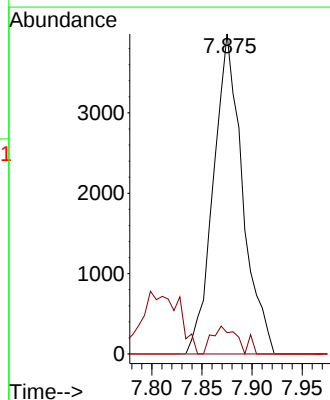
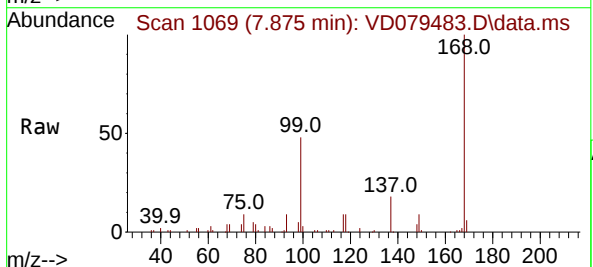
Tgt Ion: 75 Resp: 8044

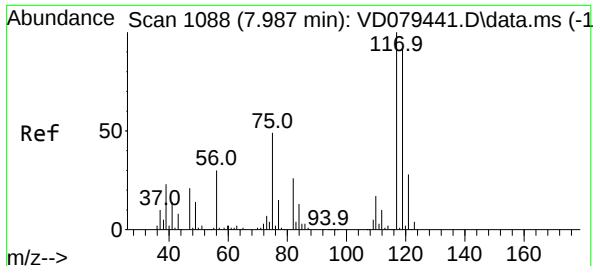
Ion Ratio Lower Upper

75 100

110 6.8 19.6 58.7#

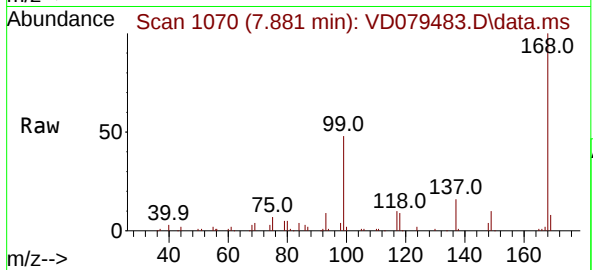
77 0.0 26.1 39.1#



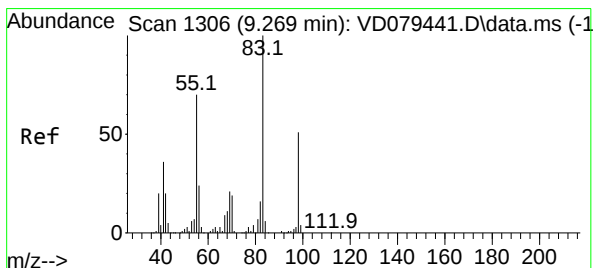
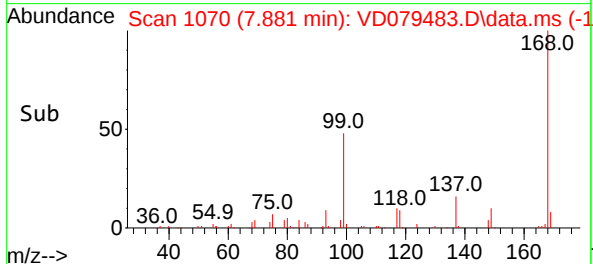
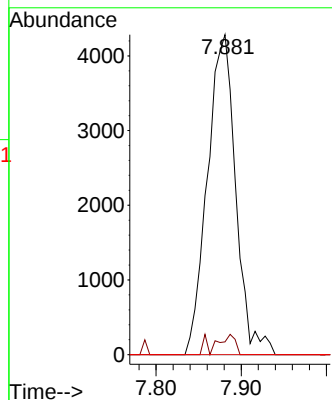


#38
Carbon Tetrachloride
Concen: 5.075 ug/l
RT: 7.881 min Scan# 117
Delta R.T. -0.106 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Instrument : MSVOA_D
ClientSampleId : S-861-K2-SO-13.5-14-072024

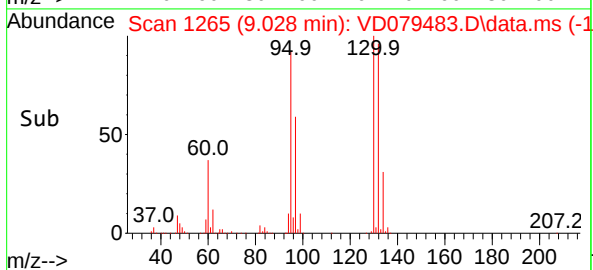
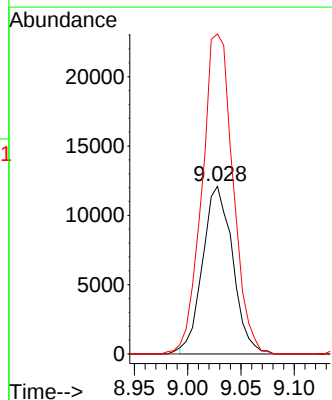
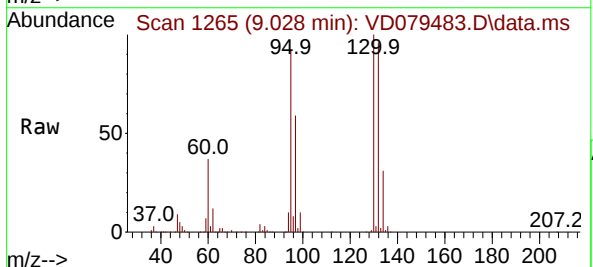


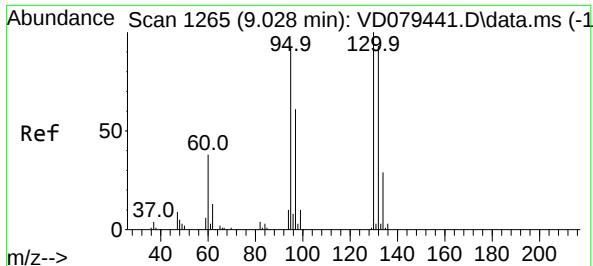
Tgt Ion:117 Resp: 9901
Ion Ratio Lower Upper
117 100
119 4.0 75.4 113.0#
121 0.0 25.0 37.4#



#39
Methylcyclohexane
Concen: 10.693 ug/l
RT: 9.028 min Scan# 1265
Delta R.T. -0.247 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 83 Resp: 23675
Ion Ratio Lower Upper
83 100
55 0.0 50.1 75.1#
98 190.9 41.9 62.9#

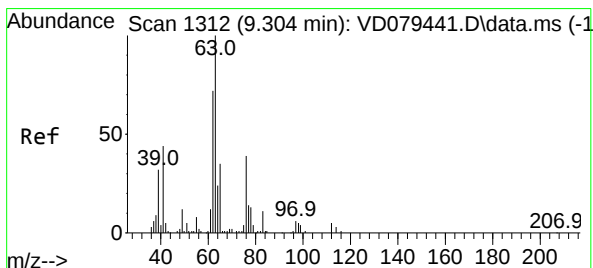
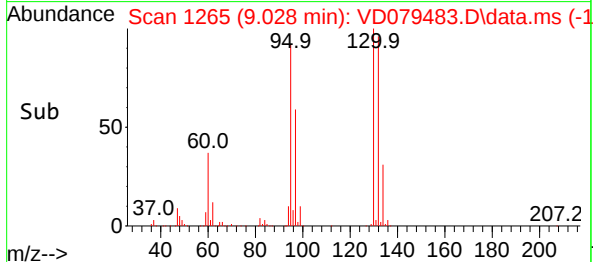
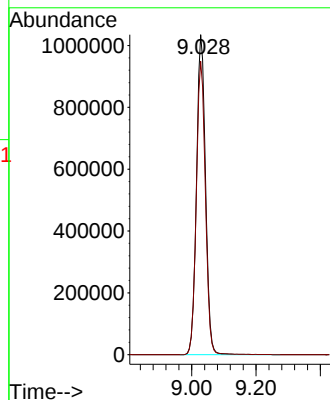
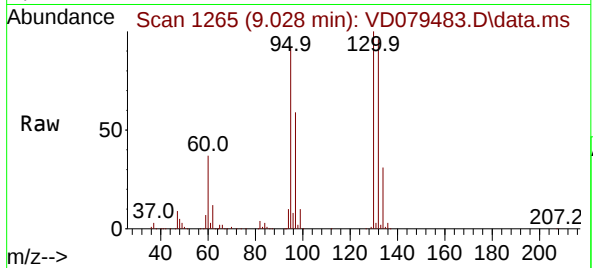




#44
Trichloroethene
Concen: 1370.648 ug/l
RT: 9.028 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

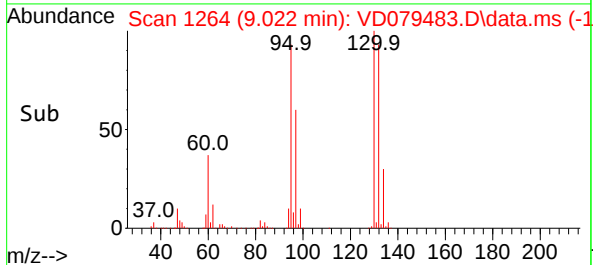
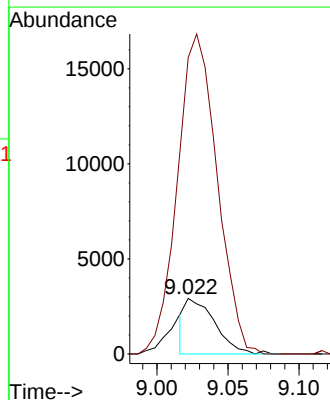
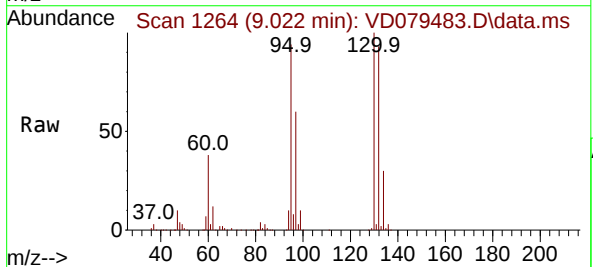
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

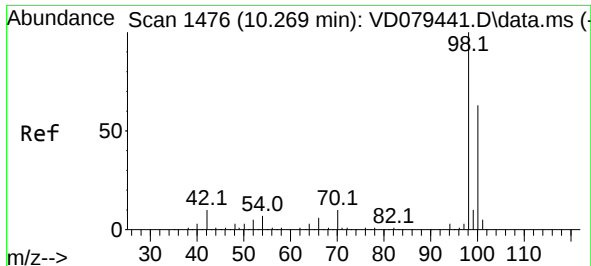
Tgt Ion:130 Resp: 2011007
Ion Ratio Lower Upper
130 100
95 91.7 0.0 177.8



#45
1,2-Dichloropropane
Concen: 2.967 ug/l
RT: 9.022 min Scan# 1264
Delta R.T. -0.277 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 63 Resp: 4256
Ion Ratio Lower Upper
63 100
65 534.2 23.8 35.8#

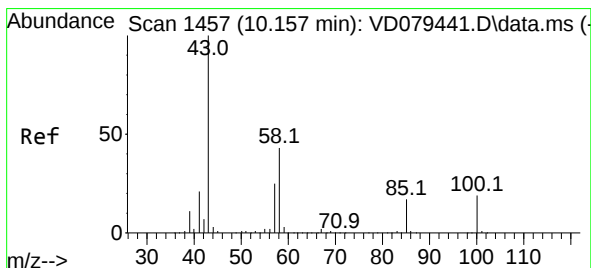
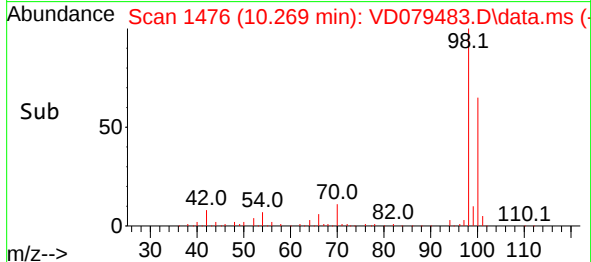
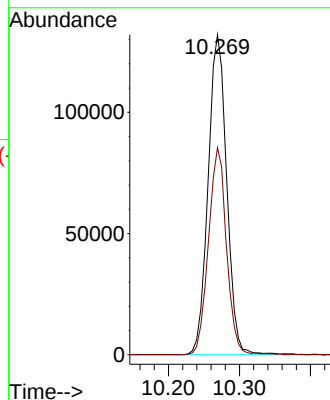
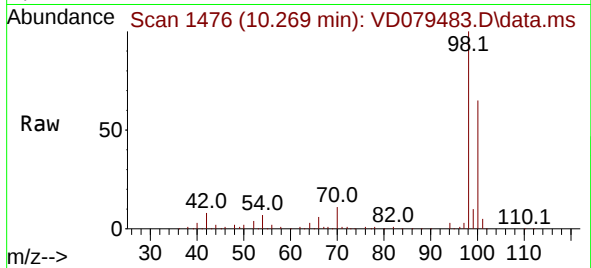




#50
Toluene-d8
Concen: 45.390 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

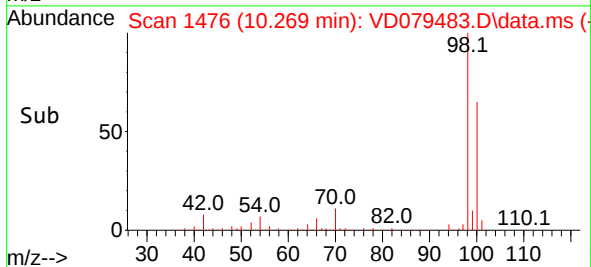
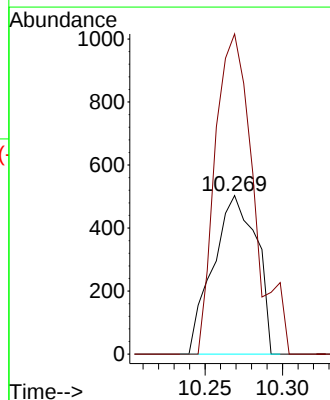
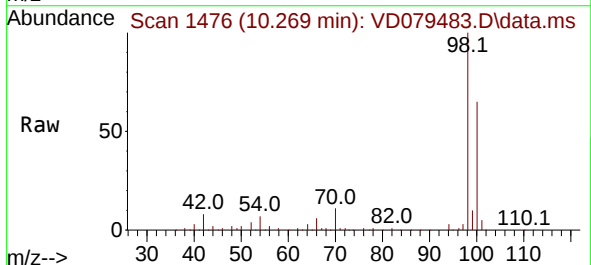
Instrument : MSVOA_D
ClientSampleId : S-861-K2-SO-13.5-14-072024

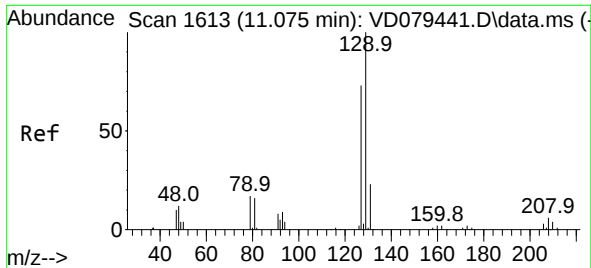
Tgt Ion: 98 Resp: 239647
Ion Ratio Lower Upper
98 100
100 62.9 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 1.348 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.112 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 43 Resp: 984
Ion Ratio Lower Upper
43 100
58 178.5 36.6 55.0#

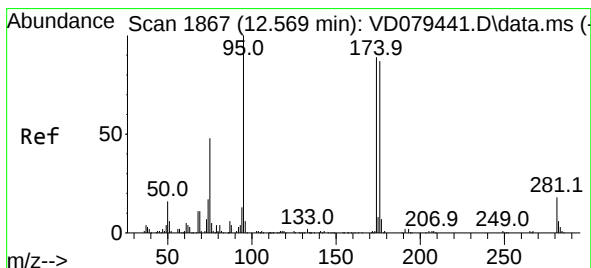
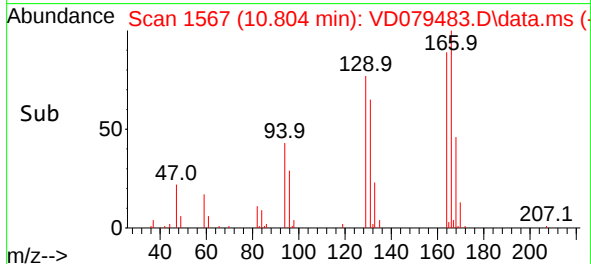
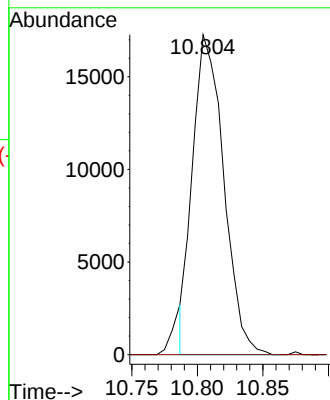
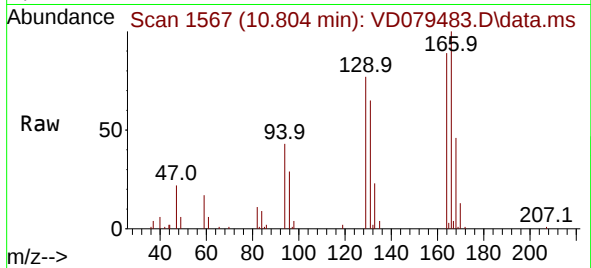




#60
Dibromochloromethane
Concen: 20.775 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.265 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

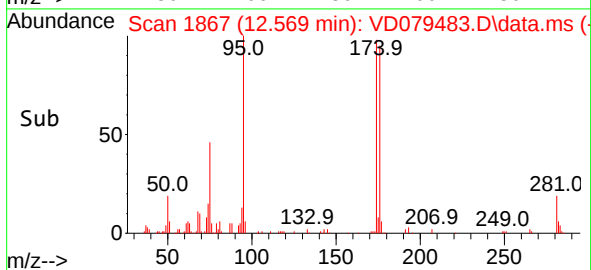
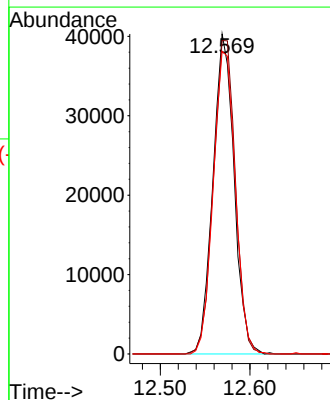
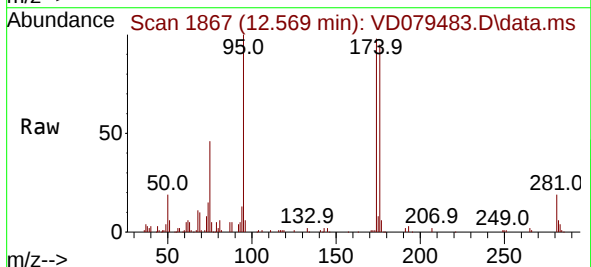
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

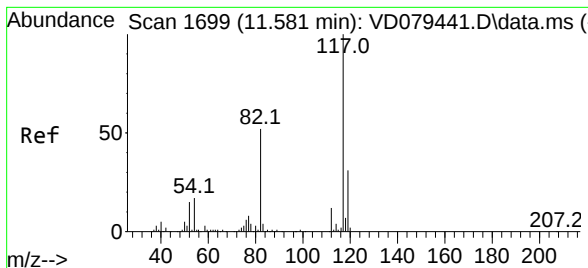
Tgt Ion:129 Resp: 28427
Ion Ratio Lower Upper
129 100
127 0.0 38.0 113.9#



#62
4-Bromofluorobenzene
Concen: 43.268 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 95 Resp: 66107
Ion Ratio Lower Upper
95 100
174 101.4 0.0 195.4
176 98.6 0.0 192.6

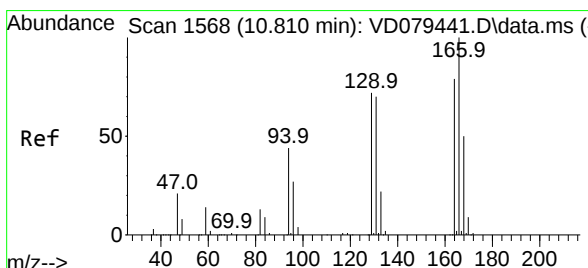
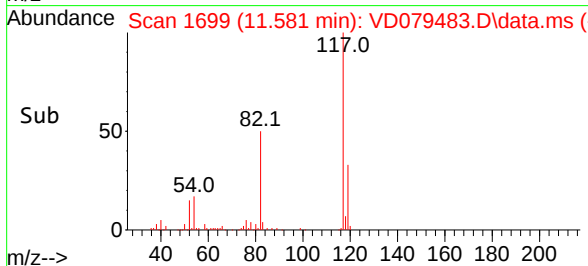
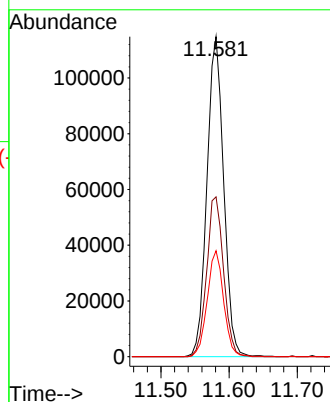
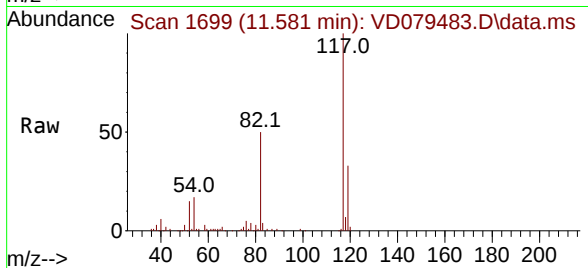




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

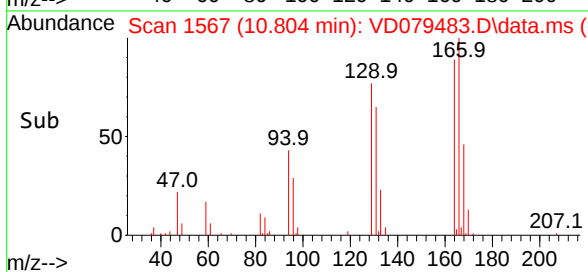
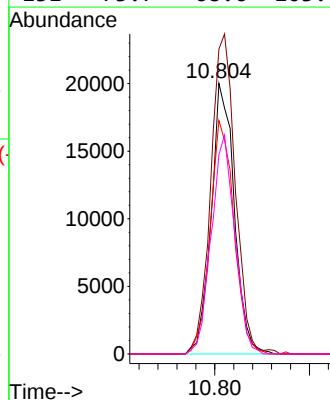
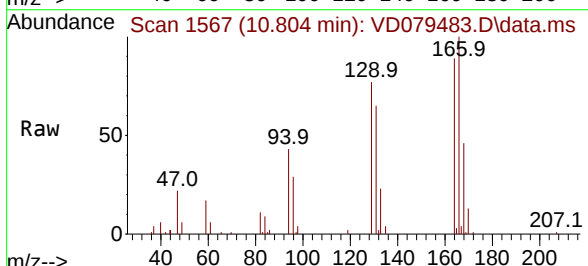
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

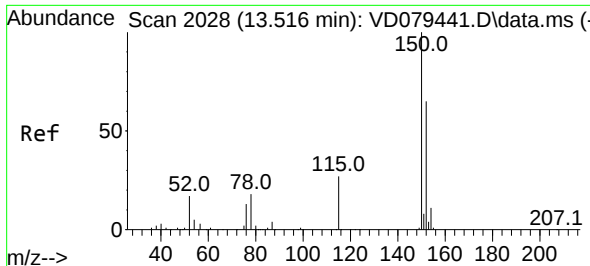
Tgt Ion:	117	Resp:	195815
Ion	Ratio	Lower	Upper
117	100		
82	49.9	39.8	59.6
119	33.1	25.7	38.5



#64
Tetrachloroethene
Concen: 25.651 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion:	164	Resp:	33869
Ion	Ratio	Lower	Upper
164	100		
166	112.7	108.6	163.0
129	86.3	74.6	112.0
131	73.7	68.6	103.0

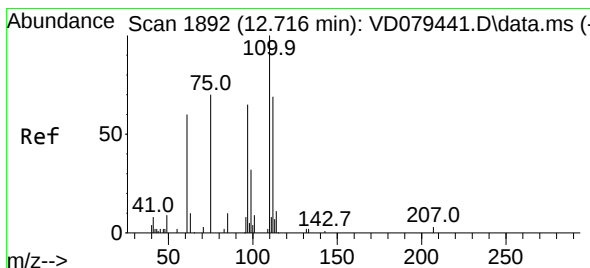
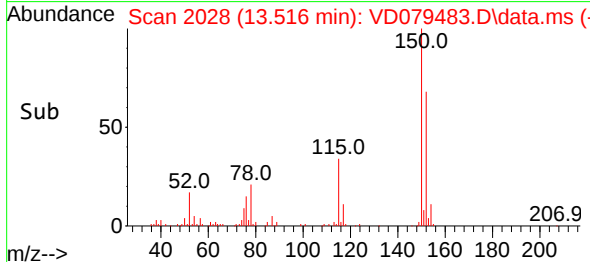
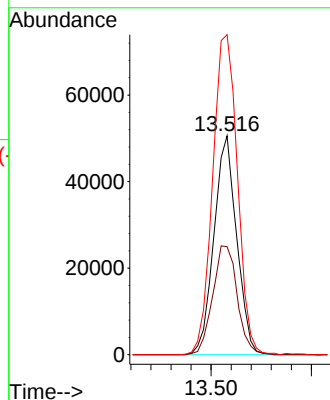
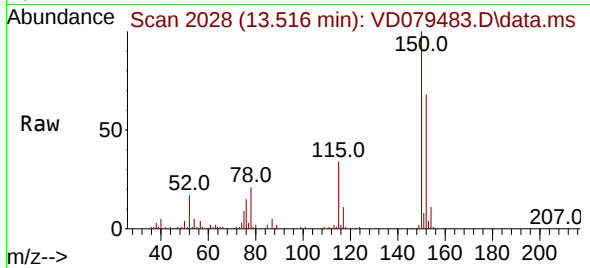




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 2028
 Delta R.T. 0.006 min
 Lab File: VD079483.D
 Acq: 31 Jul 2024 05:08

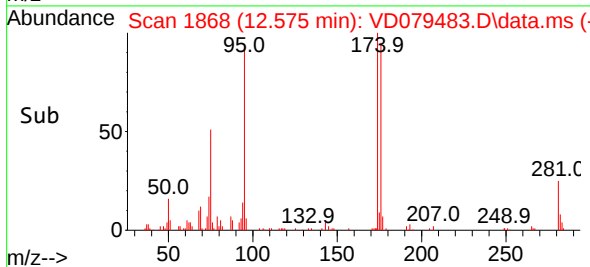
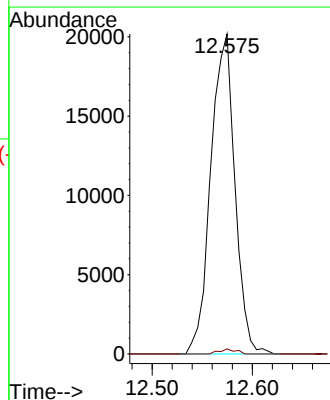
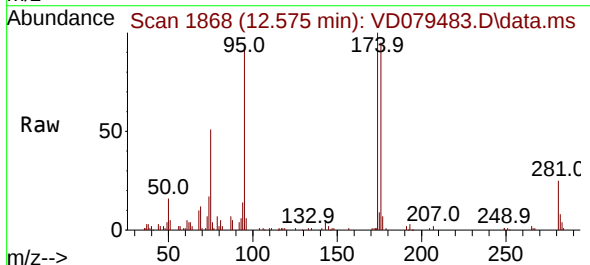
Instrument :
 MSVOA_D
 ClientSampleId :
 S-861-K2-SO-13.5-14-072024

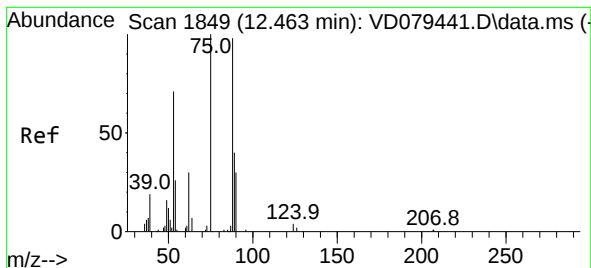
Tgt Ion:152 Resp: 79463
 Ion Ratio Lower Upper
 152 100
 115 53.7 26.5 79.5
 150 159.0 0.0 341.6



#76
 1,2,3-Trichloropropane
 Concen: 48.618 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. -0.147 min
 Lab File: VD079483.D
 Acq: 31 Jul 2024 05:08

Tgt Ion: 75 Resp: 33769
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#

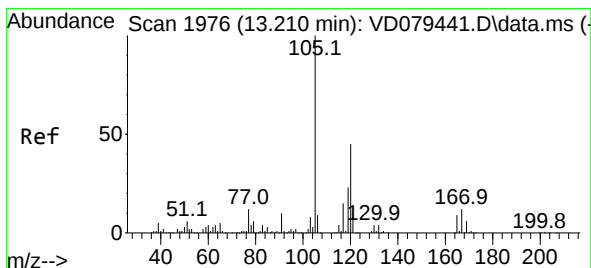
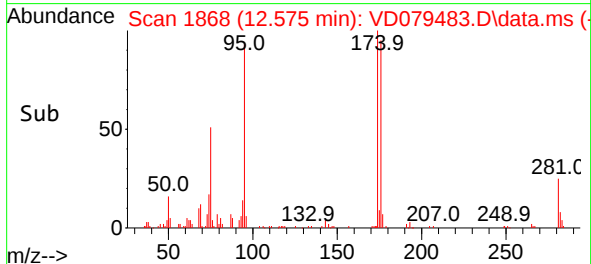
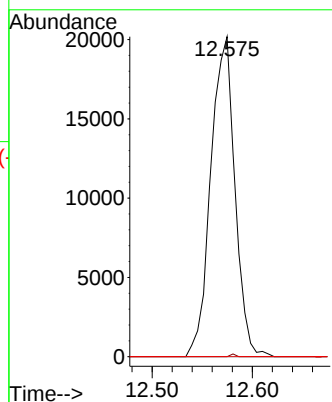
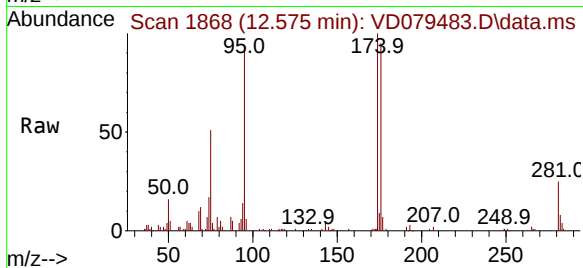




#81
trans-1,4-Dichloro-2-butene
Concen: 92.727 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

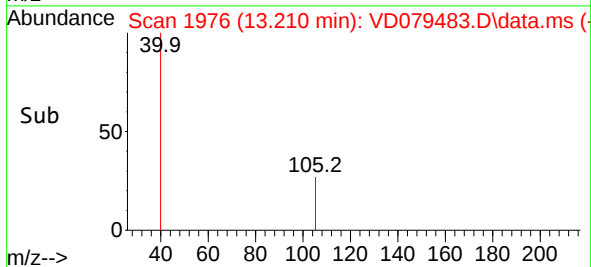
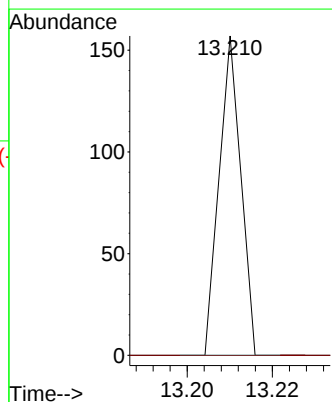
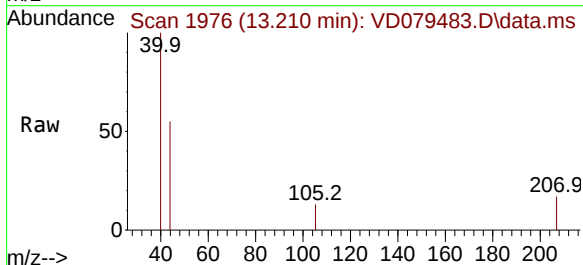
Instrument :
MSVOA_D
ClientSampleId :
S-861-K2-SO-13.5-14-072024

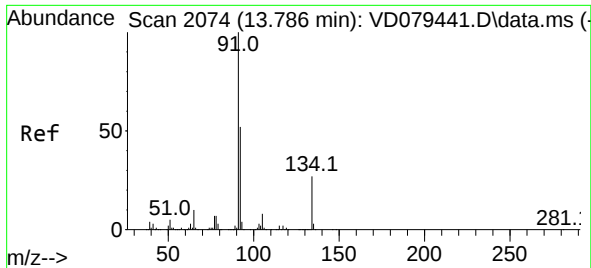
Tgt Ion: 75 Resp: 33769
Ion Ratio Lower Upper
75 100
53 0.2 61.4 92.2#
89 0.0 35.4 53.0#



#84
1,2,4-Trimethylbenzene
Concen: 3.439 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VD079483.D
Acq: 31 Jul 2024 05:08

Tgt Ion: 105 Resp: 55
Ion Ratio Lower Upper
105 100
120 0.0 23.6 71.0#





#89

n-Butylbenzene

Concen: 3.792 ug/l

RT: 13.522 min Scan# 20

Delta R.T. -0.259 min

Lab File: VD079483.D

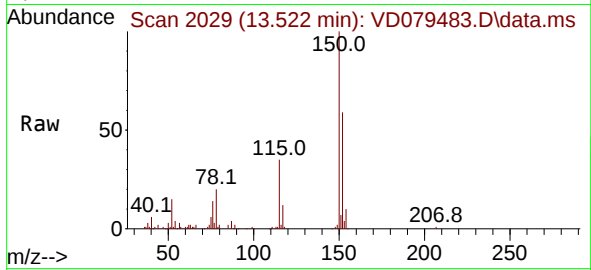
Acq: 31 Jul 2024 05:08

Instrument :

MSVOA_D

ClientSampleId :

S-861-K2-SO-13.5-14-072024



Tgt Ion: 91 Resp: 56

Ion Ratio Lower Upper

91 100

92 0.0 25.7 77.0#

134 0.0 13.6 40.8#

