

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111021\
 Data File : VW023396.D
 Acq On : 11 Nov 2021 18:35
 Operator : SY/MD
 Sample : M4558-12
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 12 02:07:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 12 02:02:21 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	122106	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	117757	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	53139	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	30048	3.928	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.600%
7) Chloroethane-d5	1.568	69	25652	4.115	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.200%
11) 1,1-Dichloroethene-d2	2.108	63	44554	3.111	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.200%
20) 2-Butanone-d5	3.902	46	47822	36.287	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	72.580%
24) Chloroform-d	4.349	84	65223	4.001	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
26) 1,2-Dichloroethane-d4	5.034	65	30926	4.219	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.400%
32) Benzene-d6	5.053	84	128956	4.268	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.400%
36) 1,2-Dichloropropane-d6	6.072	67	38747	4.356	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.200%
41) Toluene-d8	7.317	98	111931	3.953	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.000%
43) trans-1,3-Dichloroprop...	7.628	79	13258	3.931	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.600%
46) 2-Hexanone-d5	8.091	63	46537	37.504	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.000%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	24589	3.844	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	42482	4.801	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	694	0.069	ug/L #	1
6) Bromomethane	1.519	94	401	0.062	ug/L	92
12) 1,1-Dichloroethene	2.114	96	632	0.087	ug/L #	1
13) Acetone	2.191	43	2373	2.947	ug/L	67
14) Carbon disulfide	2.294	76	2255	0.082	ug/L #	94
22) cis-1,2-Dichloroethene	3.915	96	2059	0.239	ug/L #	85
30) Cyclohexane	4.683	56	1976	0.154	ug/L	95
33) Benzene	5.104	78	16333	0.496	ug/L	100
34) Trichloroethene	5.924	95	2673	0.305	ug/L	91
35) Methylcyclohexane	6.127	83	1085	0.079	ug/L #	74
42) Toluene	7.397	91	5476	0.156	ug/L	91
48) 2-Hexanone	8.153	43	2675	1.071	ug/L #	68
52) Ethylbenzene	9.017	91	1968	0.053	ug/L #	78
53) m,p-xylene	9.149	106	1371	0.094	ug/L	67
60) Isopropylbenzene	9.937	105	2870	0.094	ug/L	98
61) 1,2,3-Trichloropropane	11.191	75	315	0.089	ug/L #	63
62) 1,3,5-Trimethylbenzene	10.545	105	1383	0.055	ug/L	96
63) 1,2,4-Trimethylbenzene	10.918	105	1975	0.078	ug/L	93
64) 1,3-Dichlorobenzene	11.188	146	1083	0.070	ug/L	95

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

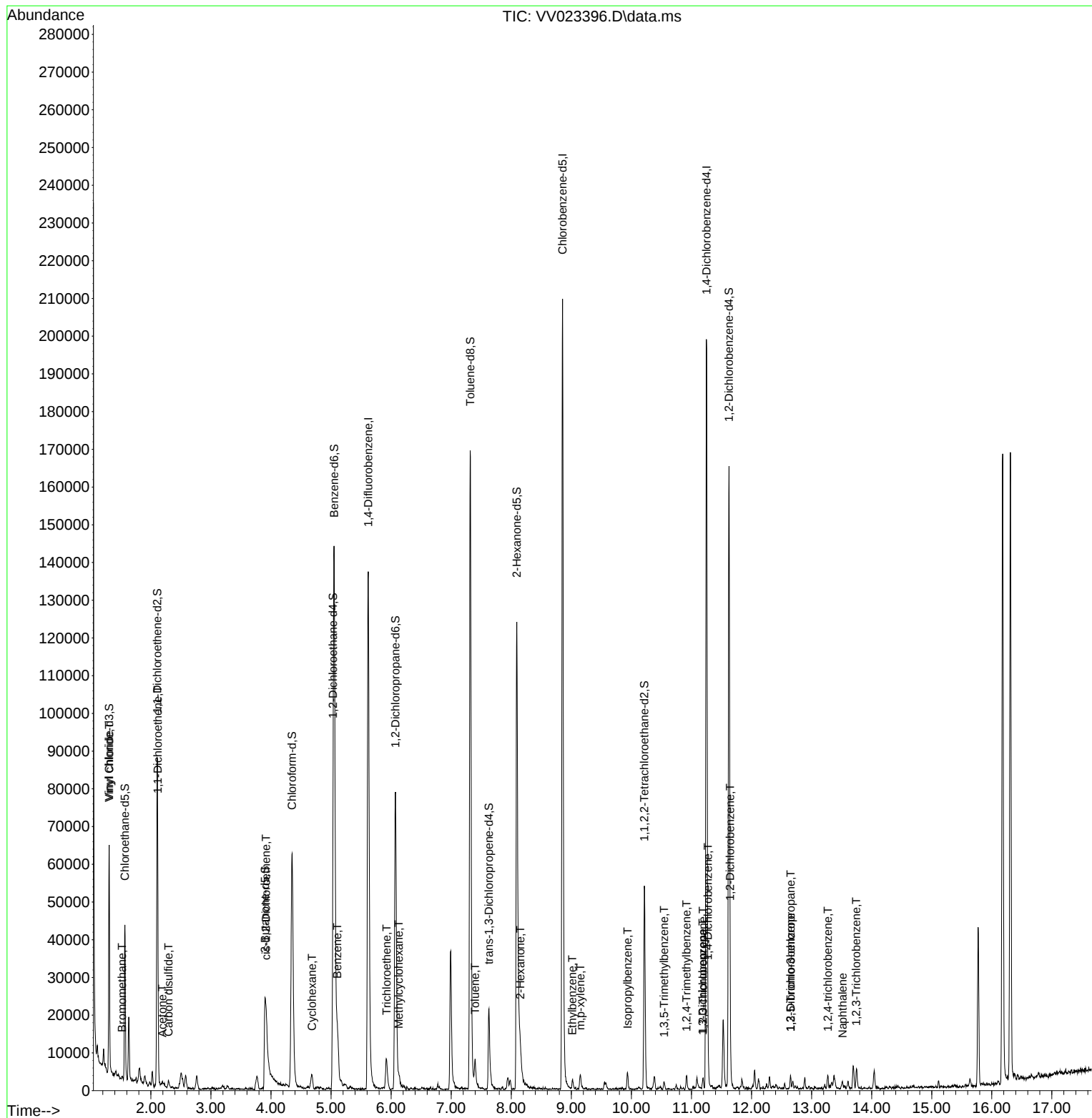
65) 1,4-Dichlorobenzene	11.275	146	1228	0.077	ug/L #	86
67) 1,2-Dichlorobenzene	11.644	146	938	0.067	ug/L #	88
68) 1,2-Dibromo-3-chloropr...	12.651	75	250	0.332	ug/L #	1
69) 1,3,5-Trichlorobenzene	12.651	180	1298	0.106	ug/L #	91
70) 1,2,4-trichlorobenzene	13.271	180	1120	0.115	ug/L	95
71) Naphthalene	13.516	128	2112	0.147	ug/L #	82
72) 1,2,3-Trichlorobenzene	13.744	180	1039	0.122	ug/L #	87

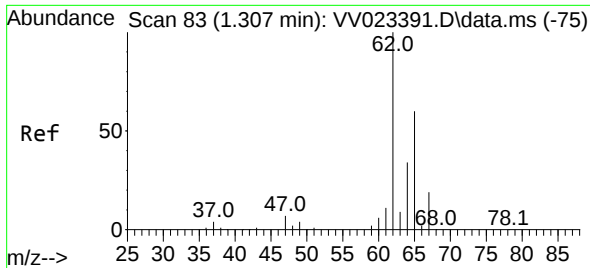
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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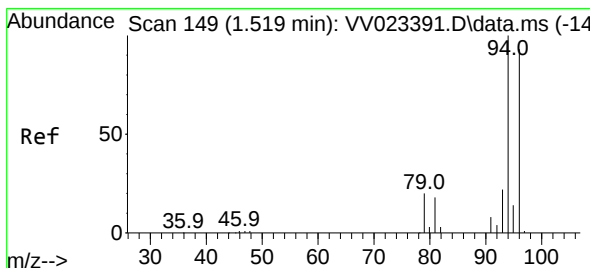
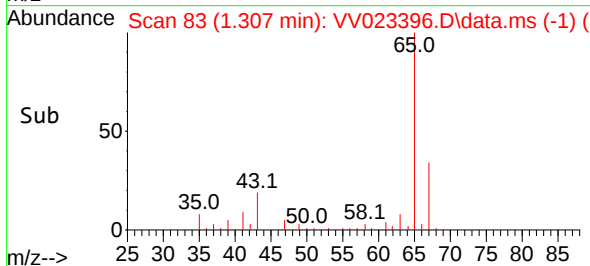
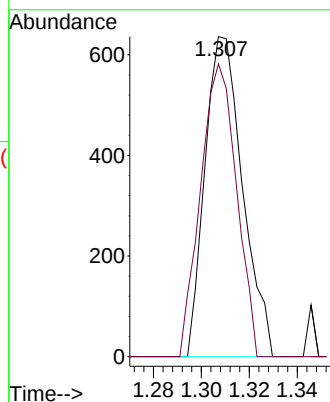
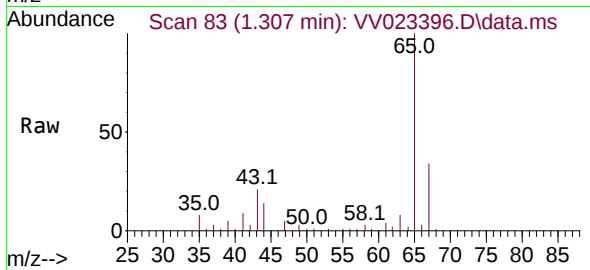




#5
 Vinyl chloride
 Concen: 0.069 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VV023396.D
 Acq: 11 Nov 2021 18:35

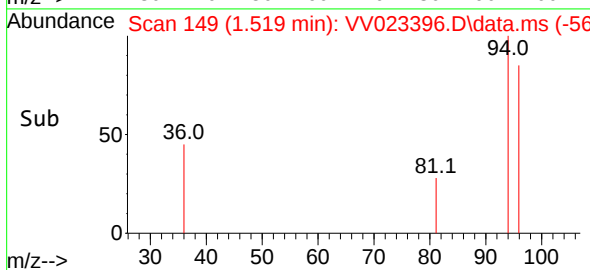
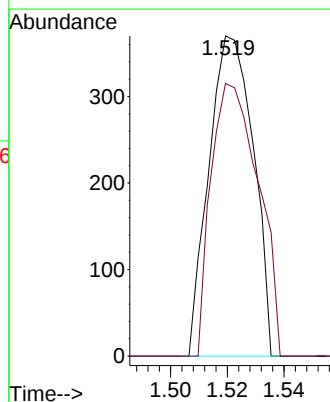
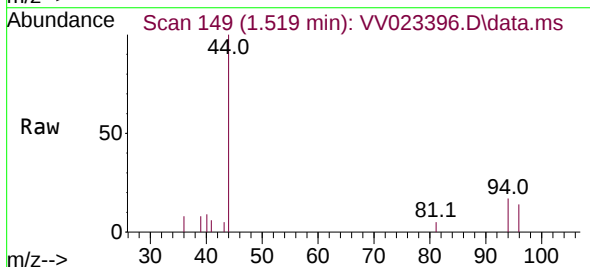
Instrument :
 MSVOA_V
 ClientSampleId :

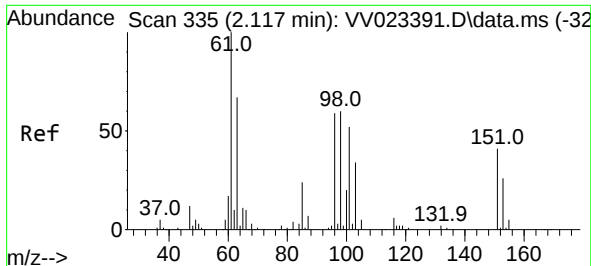
Tgt Ion: 62 Resp: 694
 Ion Ratio Lower Upper
 62 100
 64 91.5 23.1 42.9#



#6
 Bromomethane
 Concen: 0.062 ug/L
 RT: 1.519 min Scan# 149
 Delta R.T. 0.000 min
 Lab File: VV023396.D
 Acq: 11 Nov 2021 18:35

Tgt Ion: 94 Resp: 401
 Ion Ratio Lower Upper
 94 100
 96 85.1 65.0 120.8

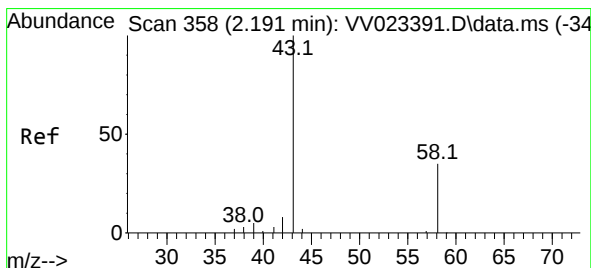
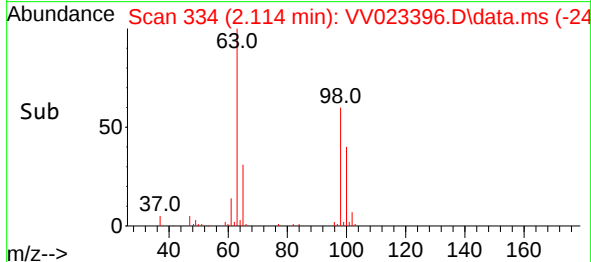
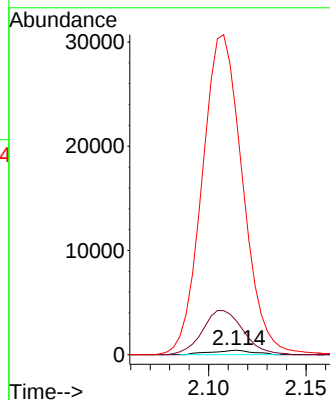
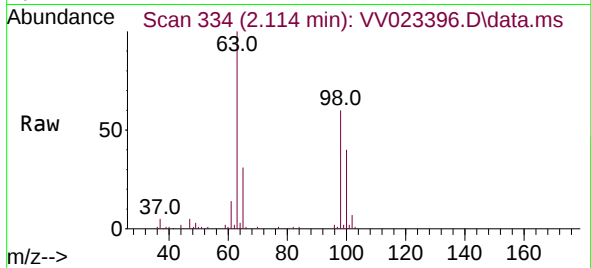




#12
1,1-Dichloroethene
Concen: 0.087 ug/L
RT: 2.114 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

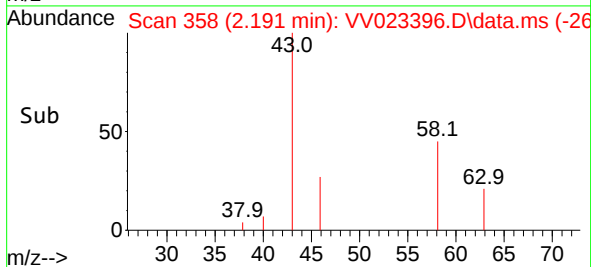
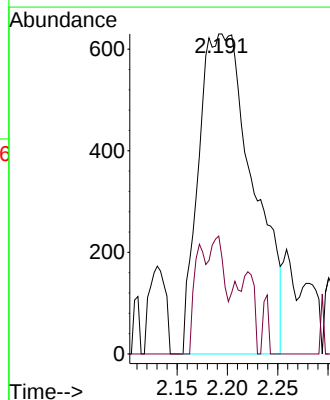
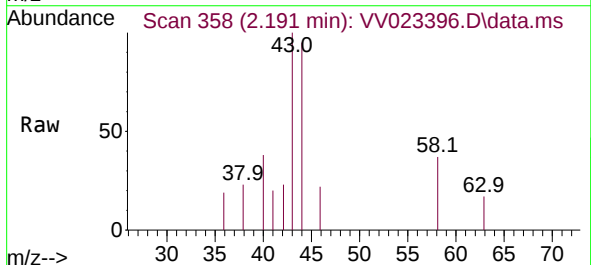
Instrument :
MSVOA_V
ClientSampleId :

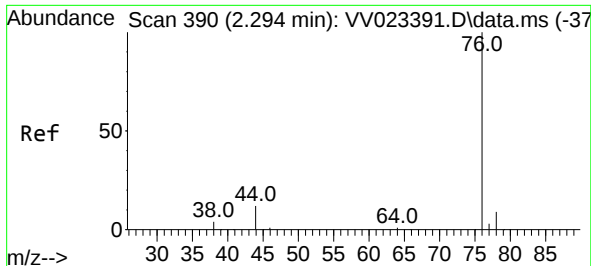
Tgt Ion: 96 Resp: 632
Ion Ratio Lower Upper
96 100
61 767.7 121.5 225.7#
63 5365.8 99.6 185.0#



#13
Acetone
Concen: 2.947 ug/L
RT: 2.191 min Scan# 358
Delta R.T. 0.000 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

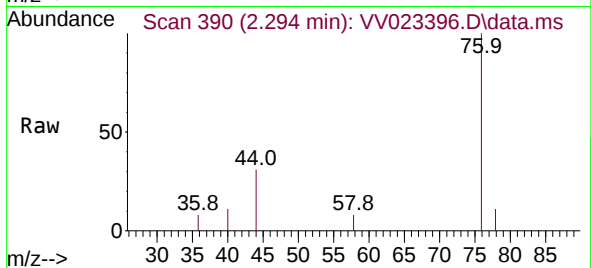
Tgt Ion: 43 Resp: 2373
Ion Ratio Lower Upper
43 100
58 10.4 0.0 55.4



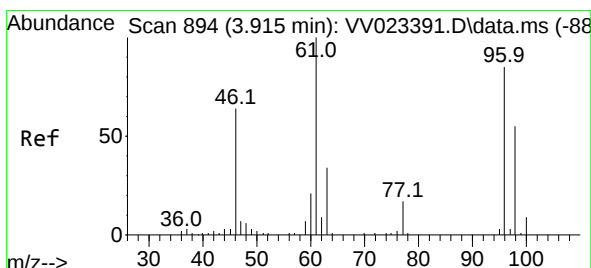
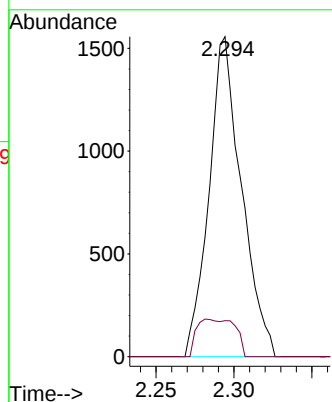
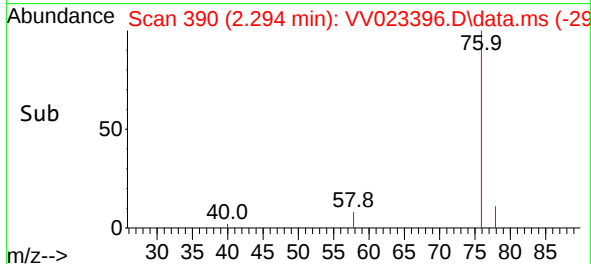


#14
Carbon disulfide
Concen: 0.082 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.000 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

Instrument :
MSVOA_V
ClientSampleId :

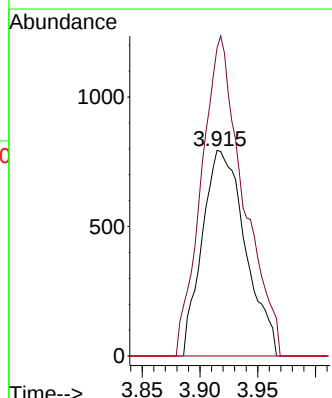
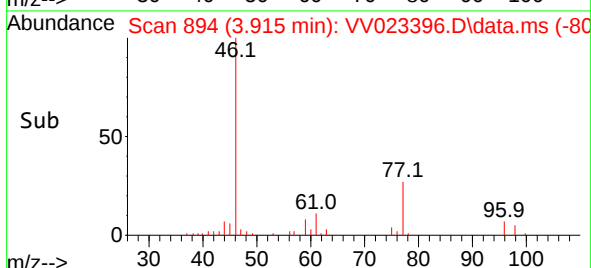
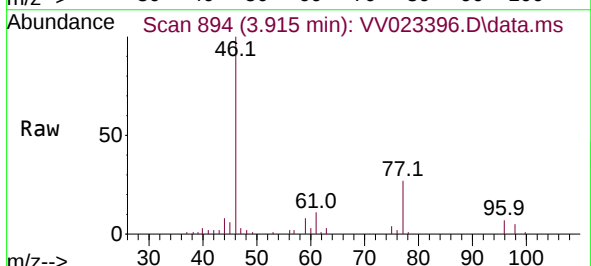


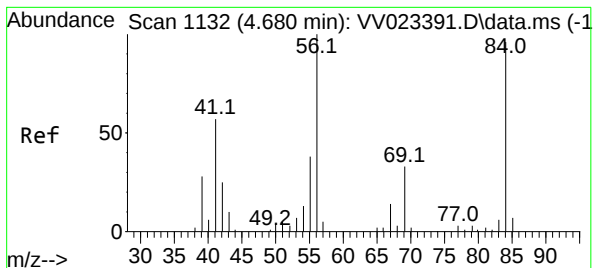
Tgt Ion: 76 Resp: 2255
Ion Ratio Lower Upper
76 100
78 11.2 7.2 10.8#



#22
cis-1,2-Dichloroethene
Concen: 0.239 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.000 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

Tgt Ion: 96 Resp: 2059
Ion Ratio Lower Upper
96 100
61 149.7 92.3 171.3
68 0.0 0.4 0.8#





#30

Cyclohexane

Concen: 0.154 ug/L

RT: 4.683 min Scan# 1132

Delta R.T. 0.003 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Instrument :

MSVOA_V

ClientSampleId :

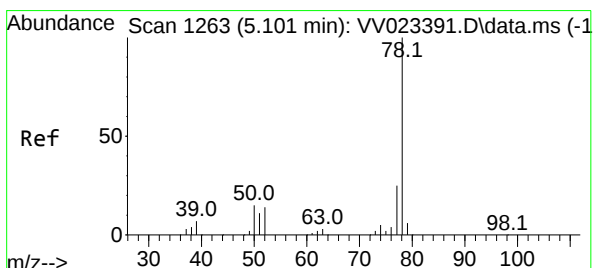
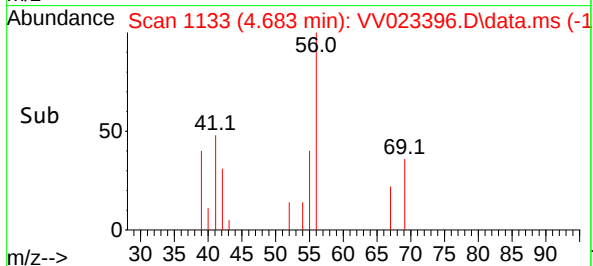
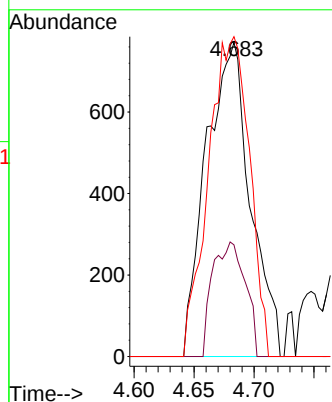
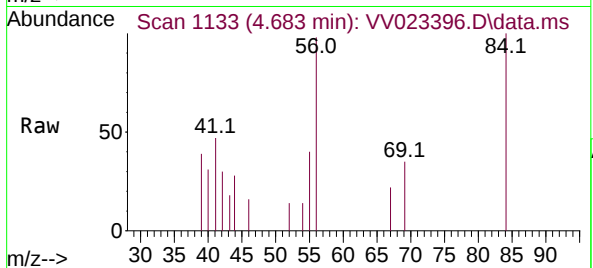
Tgt Ion: 56 Resp: 1976

Ion Ratio Lower Upper

56 100

69 26.9 23.5 35.3

84 94.6 71.6 107.4



#33

Benzene

Concen: 0.496 ug/L

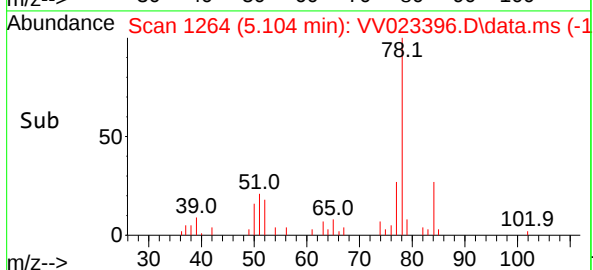
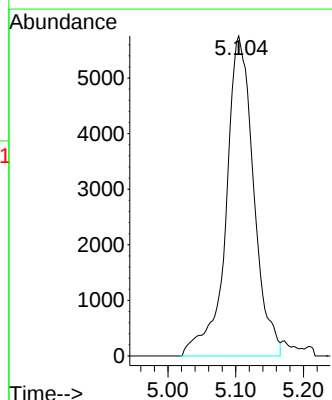
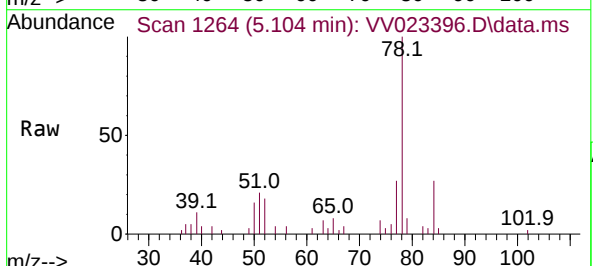
RT: 5.104 min Scan# 1264

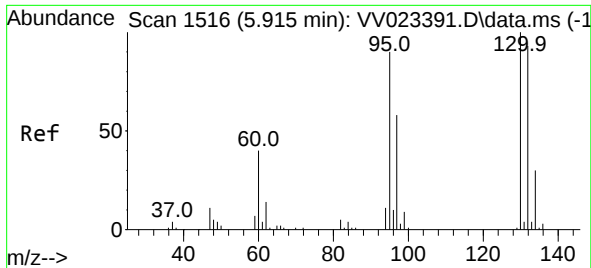
Delta R.T. 0.003 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Tgt Ion: 78 Resp: 16333



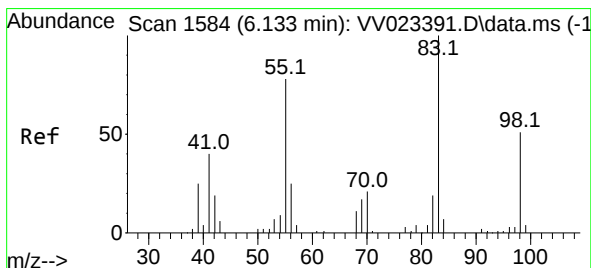
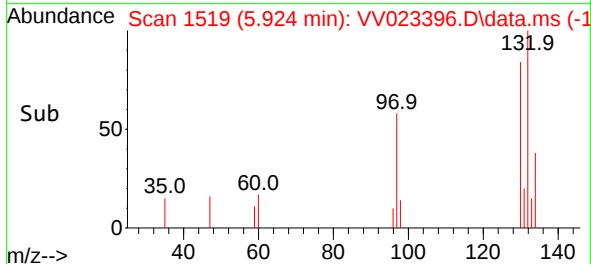
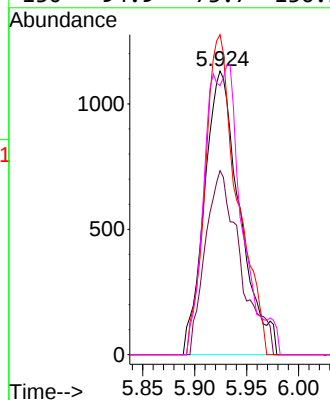
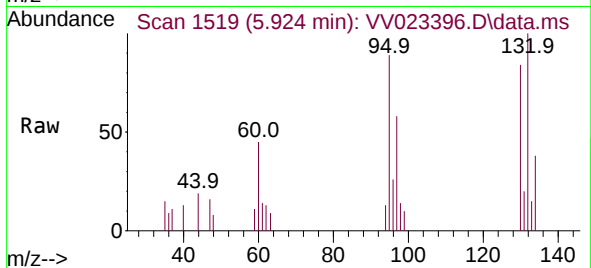


#34
Trichloroethene
Concen: 0.305 ug/L
RT: 5.924 min Scan# 1519
Delta R.T. 0.010 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 95 Resp: 2673

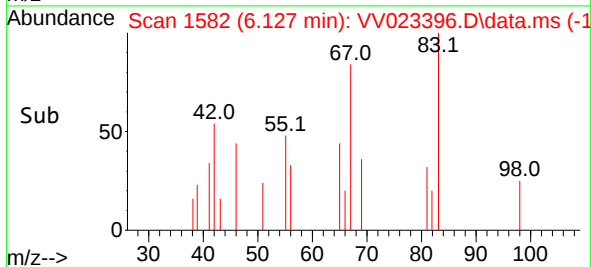
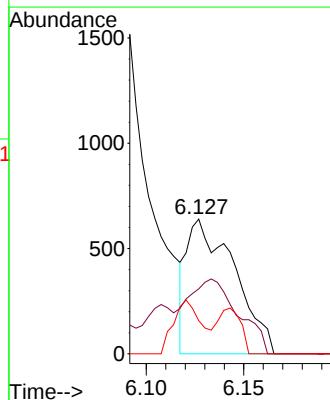
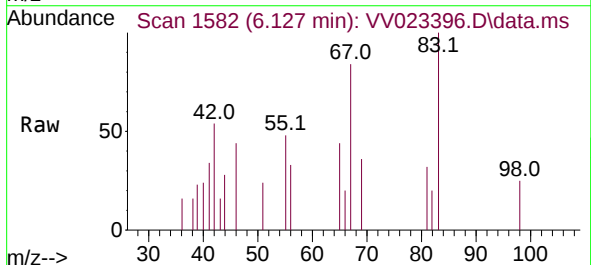
Ion	Ratio	Lower	Upper
95	100		
97	64.9	45.0	83.6
132	112.8	69.7	129.4
130	94.9	73.7	136.9

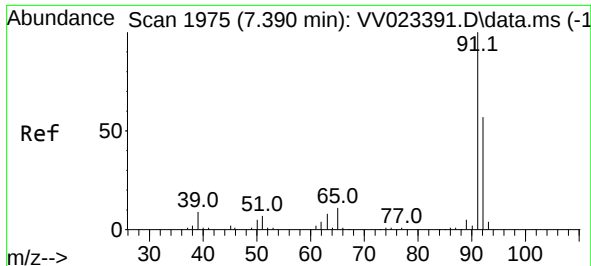


#35
Methylcyclohexane
Concen: 0.079 ug/L
RT: 6.127 min Scan# 1582
Delta R.T. -0.006 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

Tgt Ion: 83 Resp: 1085

Ion	Ratio	Lower	Upper
83	100		
55	60.3	62.8	94.2#
98	23.8	37.9	56.9#





#42

Toluene

Concen: 0.156 ug/L

RT: 7.397 min Scan# 1975

Delta R.T. 0.006 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Instrument :

MSVOA_V

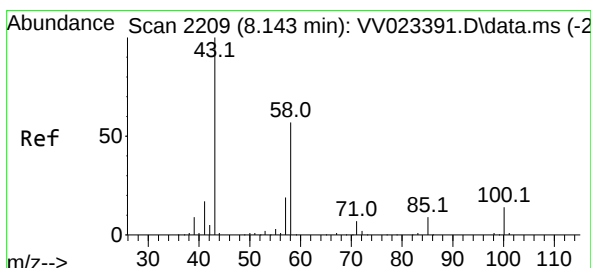
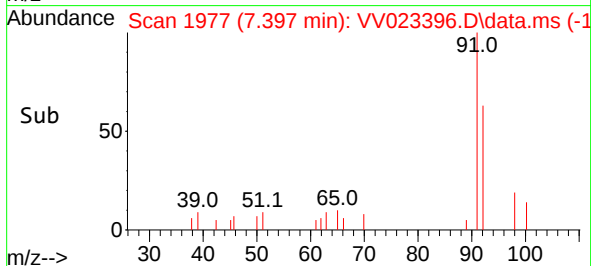
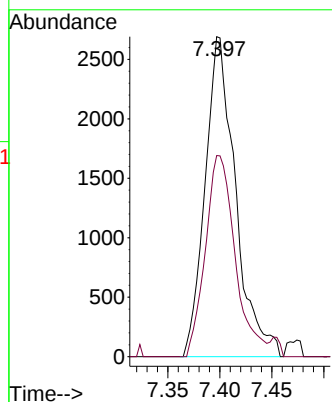
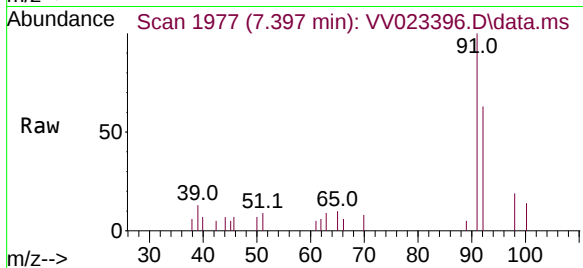
ClientSampleId :

Tgt Ion: 91 Resp: 5476

Ion Ratio Lower Upper

91 100

92 62.8 39.3 72.9



#48

2-Hexanone

Concen: 1.071 ug/L

RT: 8.153 min Scan# 2212

Delta R.T. 0.010 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Tgt Ion: 43 Resp: 2675

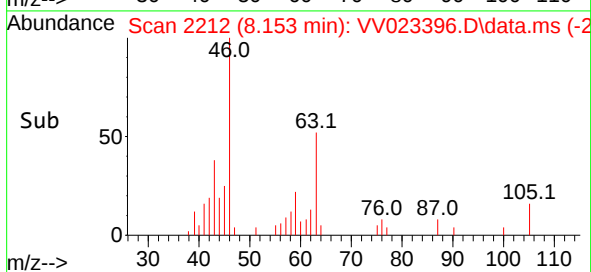
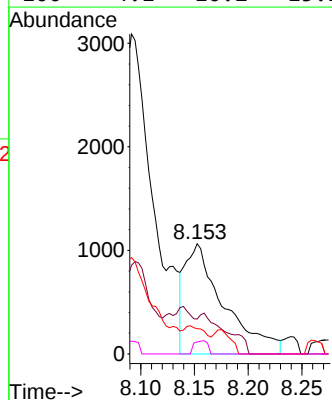
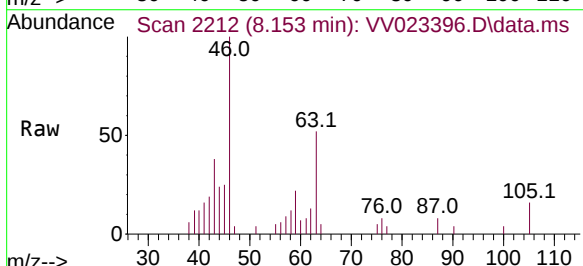
Ion Ratio Lower Upper

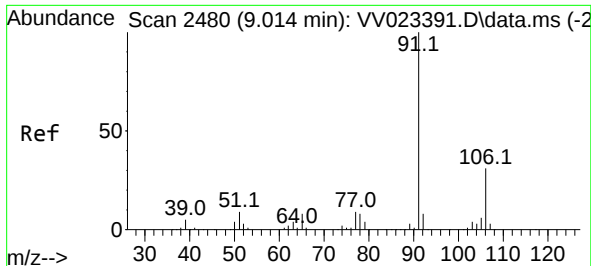
43 100

58 25.2 43.7 65.5#

57 13.2 14.1 21.1#

100 4.1 10.2 15.2#





#52

Ethylbenzene

Concen: 0.053 ug/L

RT: 9.017 min Scan# 24

Delta R.T. 0.003 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Instrument :

MSVOA_V

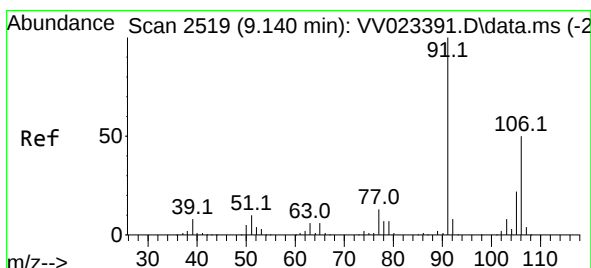
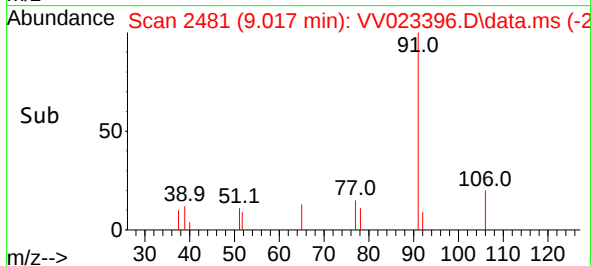
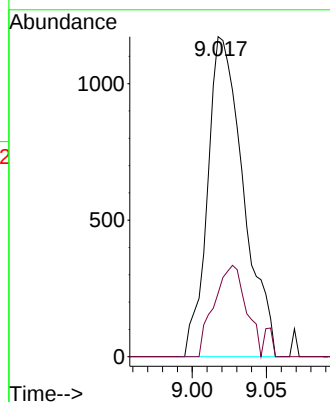
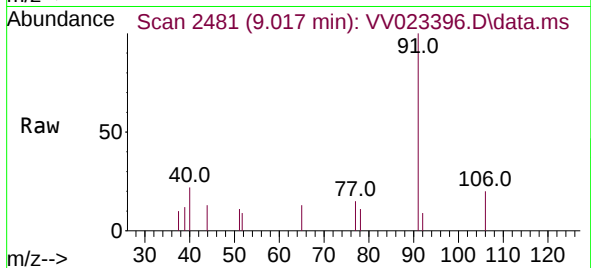
ClientSampleId :

Tgt Ion: 91 Resp: 1968

Ion Ratio Lower Upper

91 100

106 19.9 22.5 41.9#



#53

m,p-xylene

Concen: 0.094 ug/L

RT: 9.149 min Scan# 2522

Delta R.T. 0.010 min

Lab File: VV023396.D

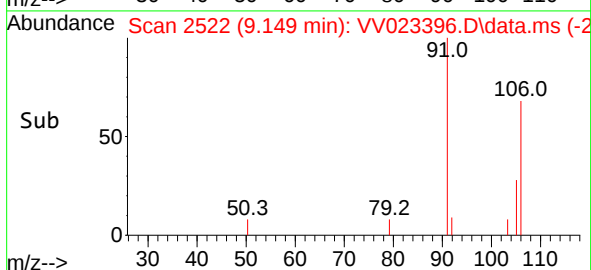
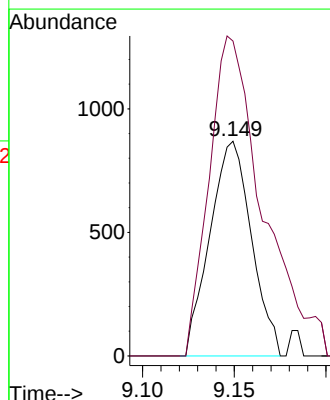
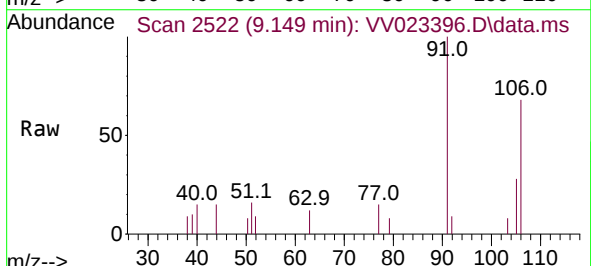
Acq: 11 Nov 2021 18:35

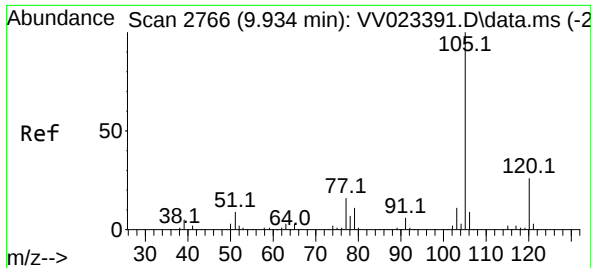
Tgt Ion:106 Resp: 1371

Ion Ratio Lower Upper

106 100

91 146.6 137.2 254.8

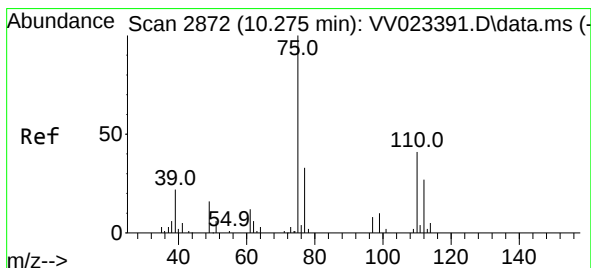
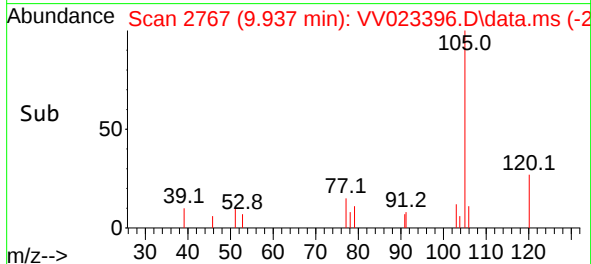
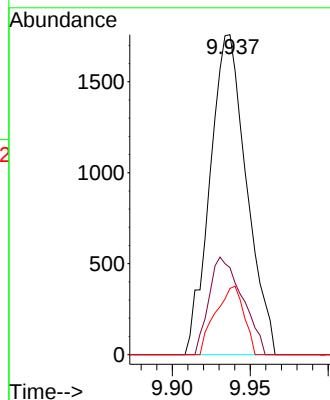
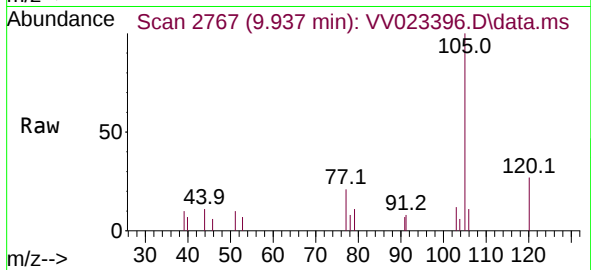




#60
Isopropylbenzene
Concen: 0.094 ug/L
RT: 9.937 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

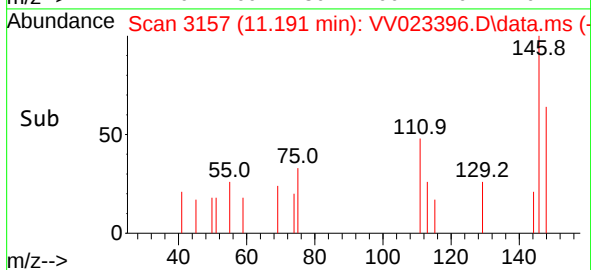
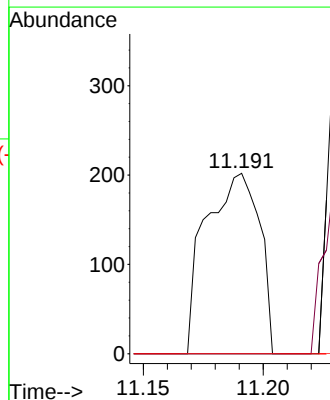
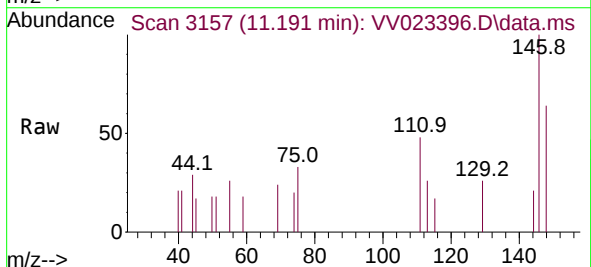
Instrument :
MSVOA_V
ClientSampleId :

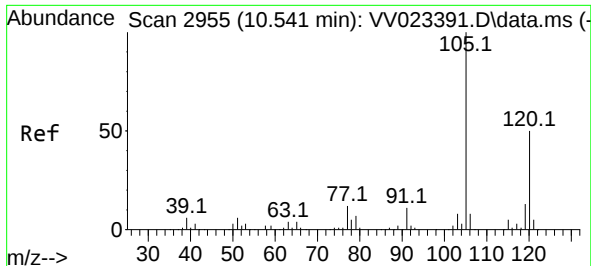
Tgt Ion:105 Resp: 2870
Ion Ratio Lower Upper
105 100
120 27.9 21.7 32.5
77 16.6 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 0.089 ug/L
RT: 11.191 min Scan# 3157
Delta R.T. 0.916 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

Tgt Ion: 75 Resp: 315
Ion Ratio Lower Upper
75 100
77 31.4 26.6 39.8
110 0.0 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.055 ug/L

RT: 10.545 min Scan# 2955

Delta R.T. 0.003 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Instrument :

MSVOA_V

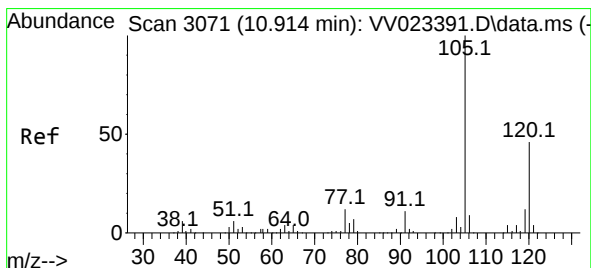
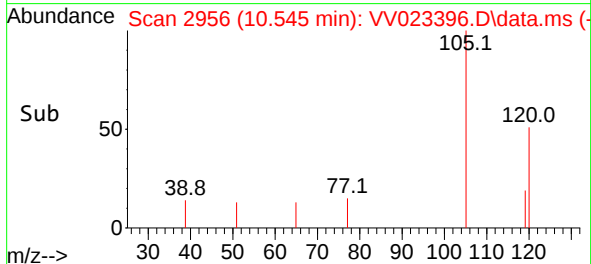
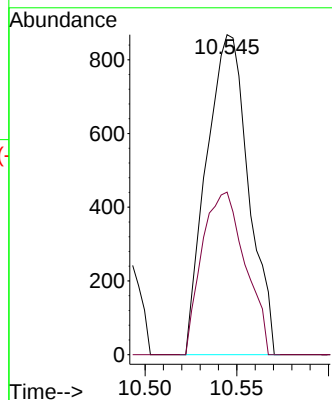
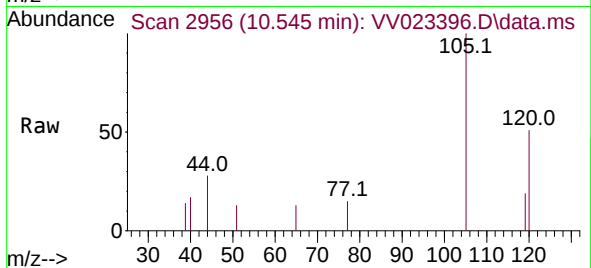
ClientSampleId :

Tgt Ion:105 Resp: 1383

Ion Ratio Lower Upper

105 100

120 52.2 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 0.078 ug/L

RT: 10.918 min Scan# 3072

Delta R.T. 0.003 min

Lab File: VV023396.D

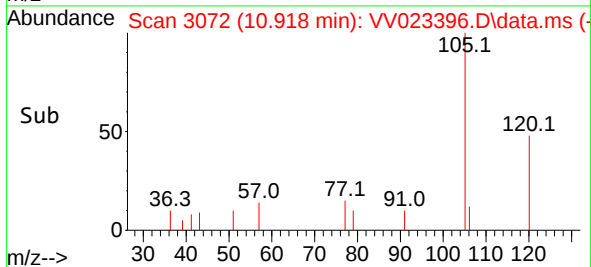
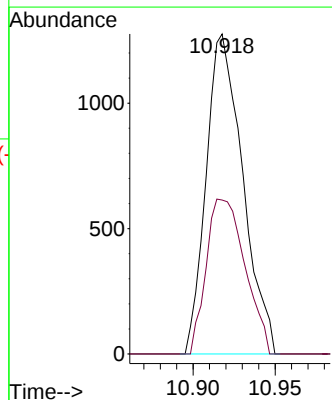
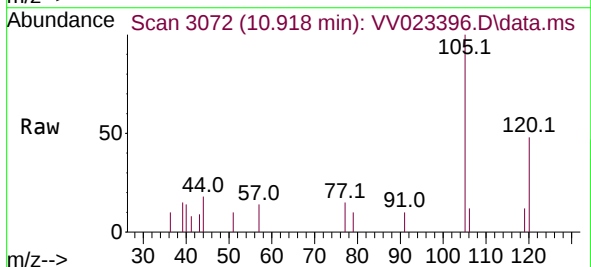
Acq: 11 Nov 2021 18:35

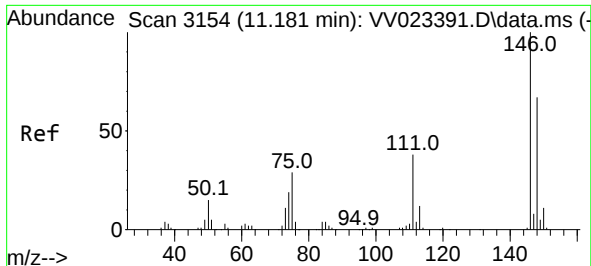
Tgt Ion:105 Resp: 1975

Ion Ratio Lower Upper

105 100

120 51.4 37.4 56.2

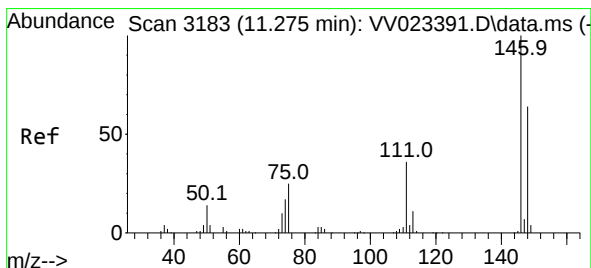
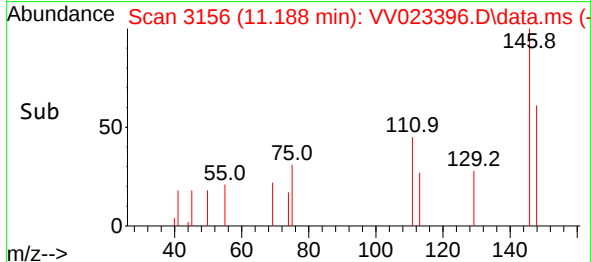
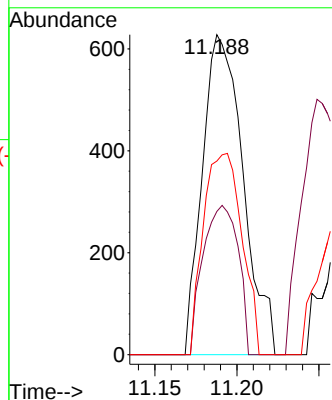
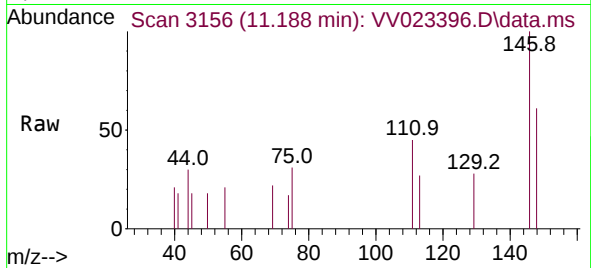




#64
1,3-Dichlorobenzene
Concen: 0.070 ug/L
RT: 11.188 min Scan# 3154
Delta R.T. 0.006 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

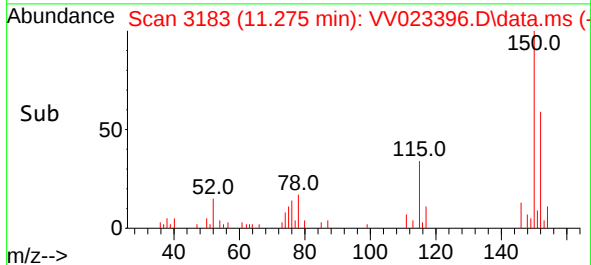
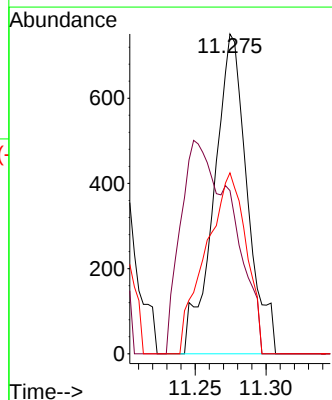
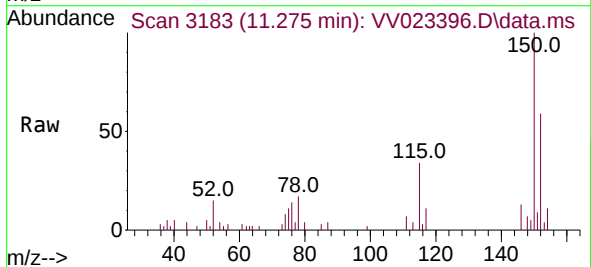
Instrument :
MSVOA_V
ClientSampleId :

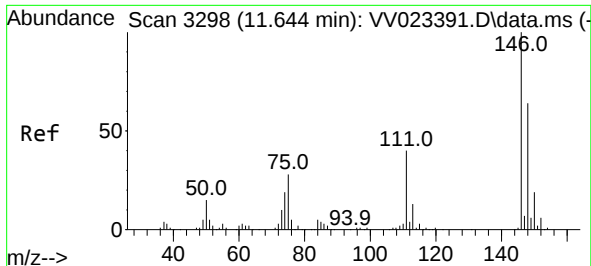
Tgt Ion:146 Resp: 1083
Ion Ratio Lower Upper
146 100
111 44.7 26.7 49.7
148 60.5 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 0.077 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. 0.000 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

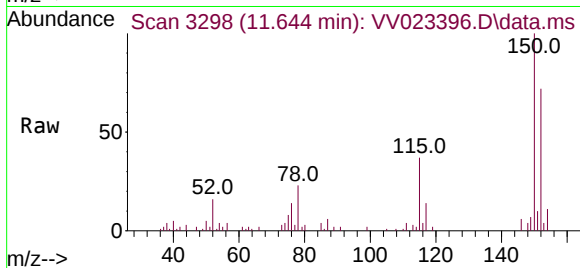
Tgt Ion:146 Resp: 1228
Ion Ratio Lower Upper
146 100
111 51.0 26.2 48.8#
148 56.6 44.4 82.5



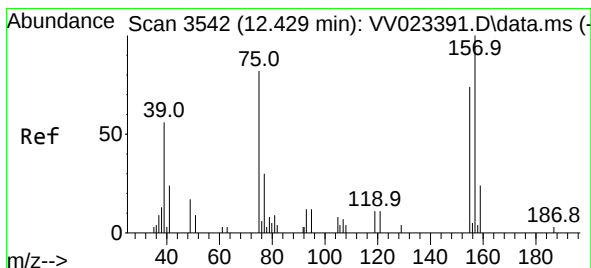
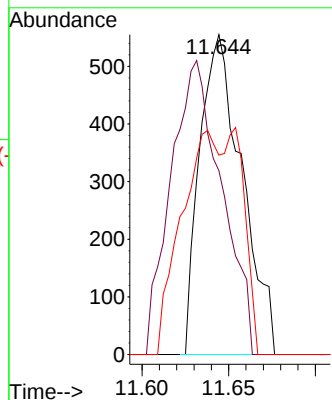
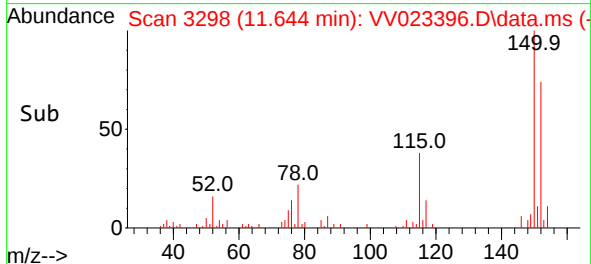


#67
1,2-Dichlorobenzene
Concen: 0.067 ug/L
RT: 11.644 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35

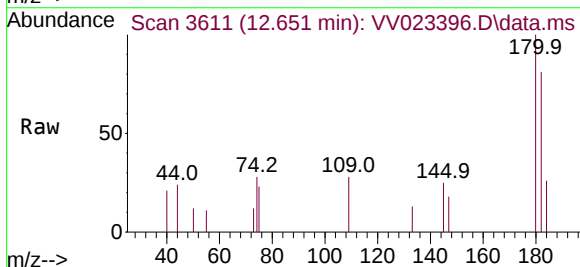
Instrument :
MSVOA_V
ClientSampleId :



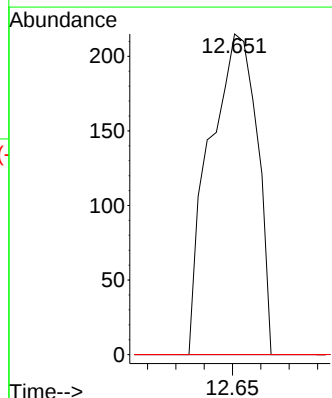
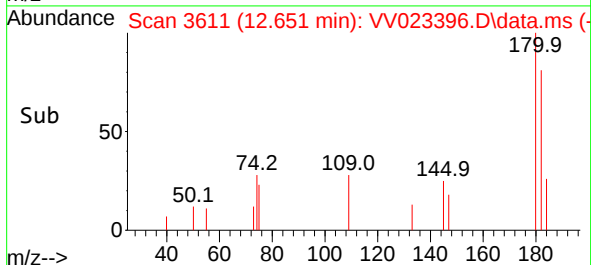
Tgt Ion:146 Resp: 938
Ion Ratio Lower Upper
146 100
111 57.5 31.6 47.4#
148 62.3 51.0 76.6

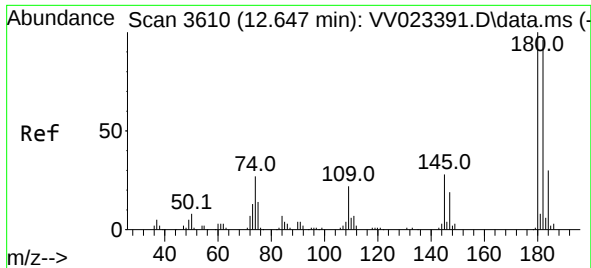


#68
1,2-Dibromo-3-chloropropane
Concen: 0.332 ug/L
RT: 12.651 min Scan# 3611
Delta R.T. 0.222 min
Lab File: VV023396.D
Acq: 11 Nov 2021 18:35



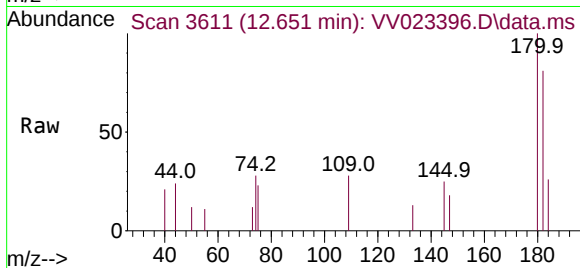
Tgt Ion: 75 Resp: 250
Ion Ratio Lower Upper
75 100
155 0.0 67.7 101.5#
157 0.0 87.9 131.9#



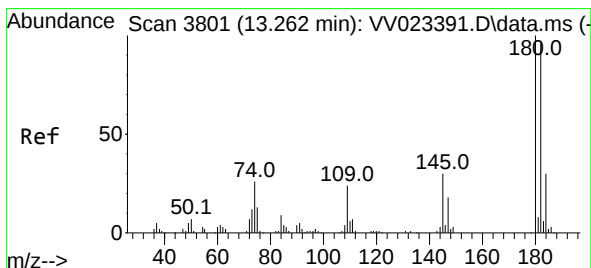
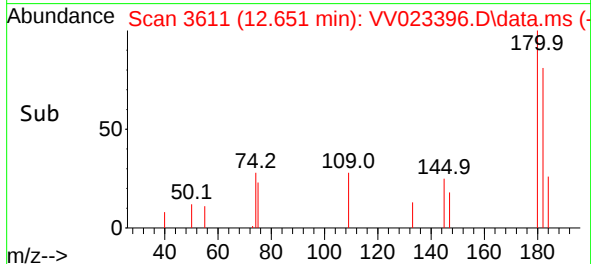
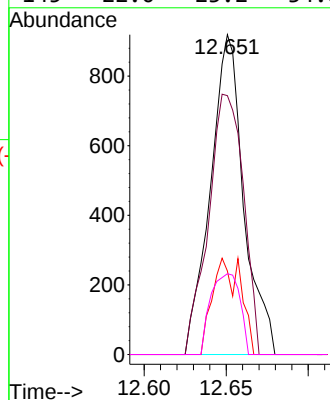


#69
 1,3,5-Trichlorobenzene
 Concen: 0.106 ug/L
 RT: 12.651 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VV023396.D
 Acq: 11 Nov 2021 18:35

Instrument :
 MSVOA_V
 ClientSampleId :

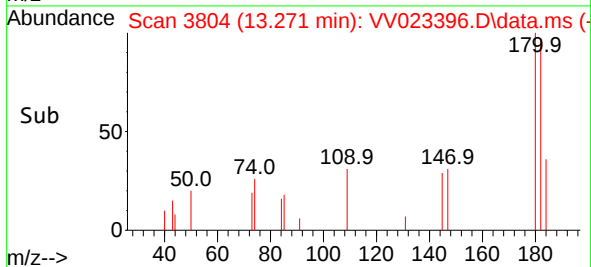
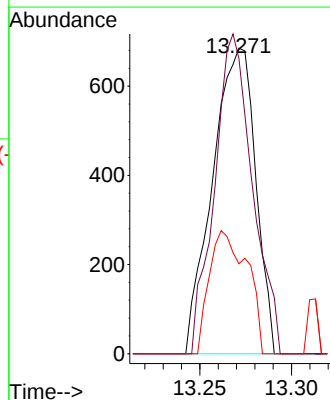
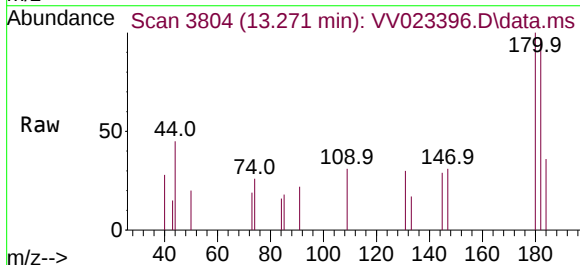


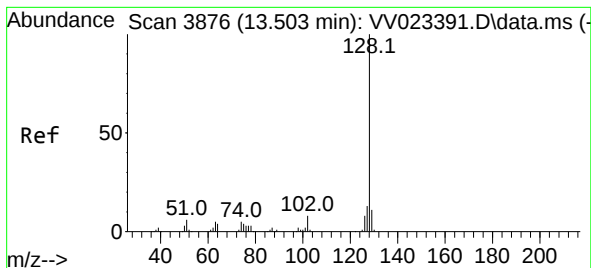
Tgt Ion:180 Resp: 1298
 Ion Ratio Lower Upper
 180 100
 182 85.4 74.9 112.3
 184 25.4 23.8 35.8
 145 22.0 23.2 34.8#



#70
 1,2,4-trichlorobenzene
 Concen: 0.115 ug/L
 RT: 13.271 min Scan# 3804
 Delta R.T. 0.010 min
 Lab File: VV023396.D
 Acq: 11 Nov 2021 18:35

Tgt Ion:180 Resp: 1120
 Ion Ratio Lower Upper
 180 100
 182 92.1 76.9 115.3
 145 35.2 24.4 36.6





#71

Naphthalene

Concen: 0.147 ug/L

RT: 13.516 min Scan# 3880

Delta R.T. 0.013 min

Lab File: VV023396.D

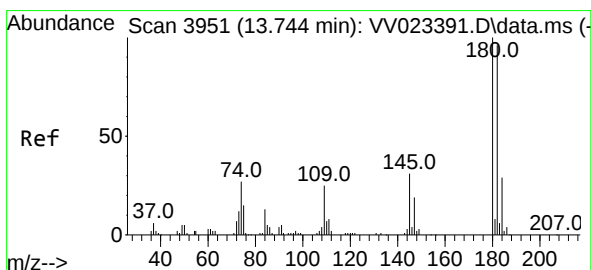
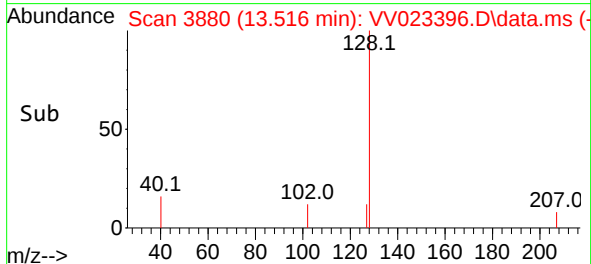
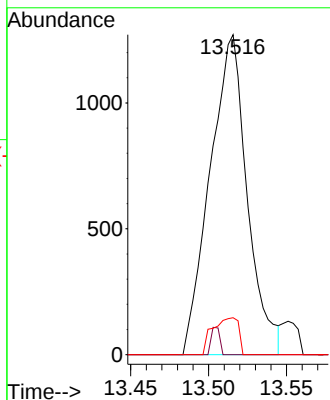
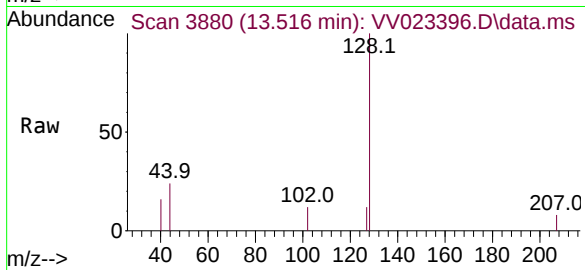
Acq: 11 Nov 2021 18:35

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:128	Resp:	2112
Ion Ratio	Lower	Upper
128	100	
129	1.9	8.6 13.0#
127	8.0	10.5 15.7#



#72

1,2,3-Trichlorobenzene

Concen: 0.122 ug/L

RT: 13.744 min Scan# 3951

Delta R.T. 0.000 min

Lab File: VV023396.D

Acq: 11 Nov 2021 18:35

Tgt Ion:180	Resp:	1039
Ion Ratio	Lower	Upper
180	100	
182	106.0	76.7 115.1
145	19.9	25.7 38.5#

