

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111523\
 Data File : VU056356.D
 Acq On : 15 Nov 2023 15:37
 Operator : MD/SY
 Sample : 05340-03DL 5X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 16 04:39:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 16 04:37:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	299784	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	311226	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	134375	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	106906	4.768	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.400%
7) Chloroethane-d5	1.904	69	78623	4.573	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.400%
11) 1,1-Dichloroethene-d2	2.557	65	50327	5.086	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.800%
20) 2-Butanone-d5	4.621	46	235459	52.662	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.320%
24) Chloroform-d	5.055	84	221832	5.115	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.200%
26) 1,2-Dichloroethane-d4	5.695	65	113303	5.654	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.000%
32) Benzene-d6	5.721	84	450038	4.853	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.000%
36) 1,2-Dichloropropane-d6	6.682	67	138644	4.961	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.200%
41) Toluene-d8	7.894	98	409378	5.000	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.000%
43) trans-1,3-Dichloroprop...	8.177	79	53675	5.008	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.200%
46) 2-Hexanone-d5	8.640	63	228670	54.290	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.580%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	103266	5.171	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	137149	5.525	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.400%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.570	96	3664	0.200	ug/L #	1
15) Methyl Acetate	2.965	43	1309	0.193	ug/L #	55
16) Methylene chloride	3.042	84	12702	0.523	ug/L	97
19) 1,1-Dichloroethane	3.862	63	4248	0.114	ug/L #	81
22) cis-1,2-Dichloroethene	4.660	96	2891	0.135	ug/L	91
27) 1,2-Dichloroethane	5.795	62	3663	0.159	ug/L	99
34) Trichloroethene	6.537	95	116550	4.817	ug/L	98
37) 1,2-Dichloropropane	6.791	63	3402	0.147	ug/L #	88
38) Bromodichloromethane	7.103	83	5091	0.170	ug/L #	86
39) cis-1,3-Dichloropropene	7.605	75	5220	0.153	ug/L	95
44) trans-1,3-Dichloropropene	8.206	75	3983	0.147	ug/L	95
45) 1,1,2-Trichloroethane	8.399	97	2536	0.164	ug/L	90
47) Tetrachloroethene	8.550	164	3981	0.244	ug/L	86
48) 2-Hexanone	8.698	43	12636	1.413	ug/L #	84
49) Dibromochloromethane	8.804	129	2844	0.162	ug/L #	69
50) 1,2-Dibromoethane	8.923	107	2158	0.148	ug/L #	96
51) Chlorobenzene	9.444	112	10037	0.170	ug/L	91
52) Ethylbenzene	9.569	91	16243	0.159	ug/L	96
53) m,p-Xylene	9.695	106	8360	0.223	ug/L	98

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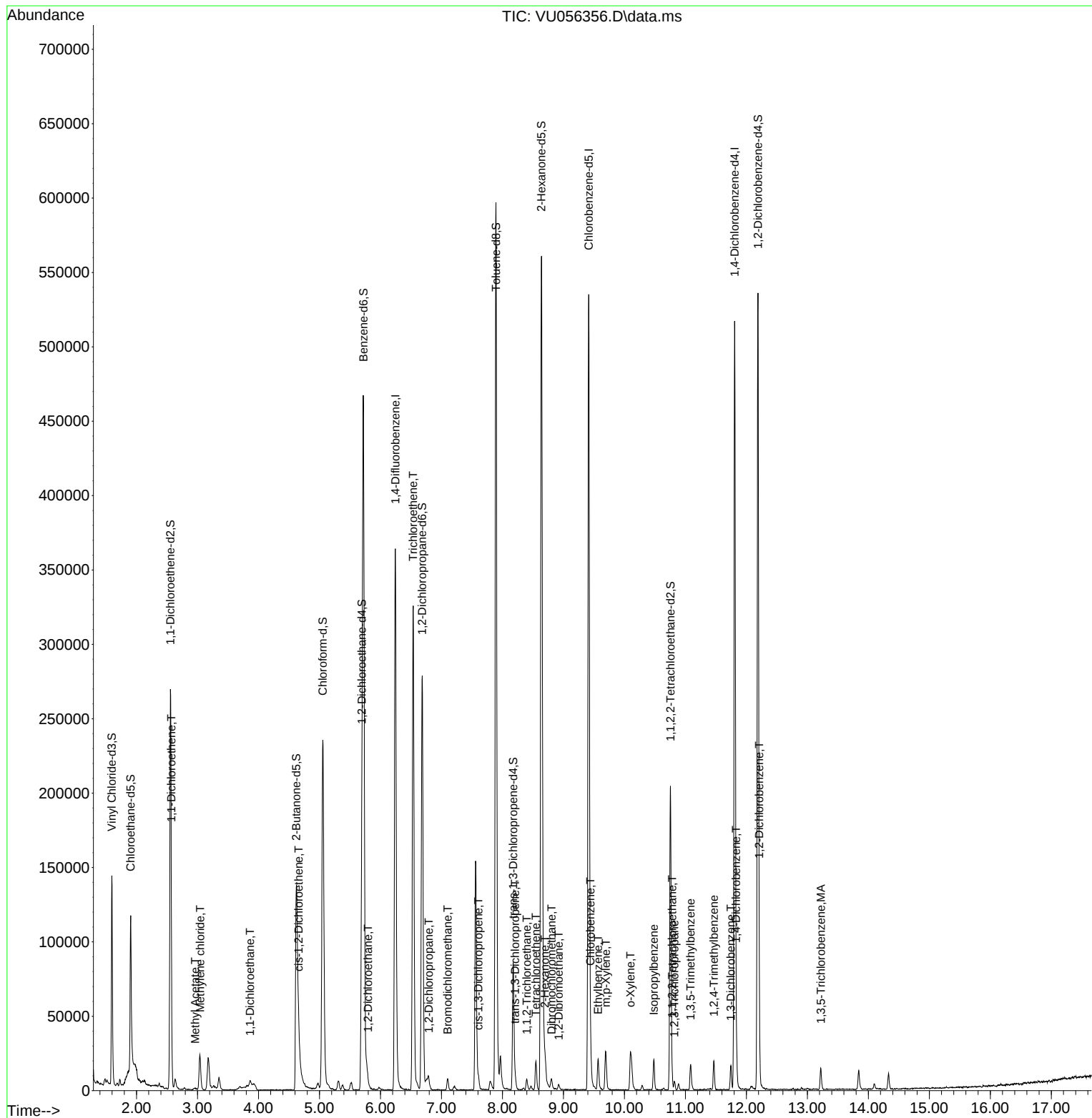
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.100	106	6360	0.174	ug/L	84
57) 1,1,2,2-Tetrachloroethane	10.782	83	3286	0.174	ug/L #	82
60) Isopropylbenzene	10.483	105	13709	0.158	ug/L	99
61) 1,2,3-Trichloropropane	10.820	75	2361	0.205	ug/L #	79
62) 1,3,5-Trimethylbenzene	11.087	105	10307	0.145	ug/L	96
63) 1,2,4-Trimethylbenzene	11.467	105	10952	0.156	ug/L	94
64) 1,3-Dichlorobenzene	11.746	146	6468	0.164	ug/L	94
65) 1,4-Dichlorobenzene	11.833	146	7546	0.191	ug/L	96
67) 1,2-Dichlorobenzene	12.209	146	7162	0.198	ug/L #	89
69) 1,3,5-Trichlorobenzene	13.222	180	5504	0.185	ug/L	96

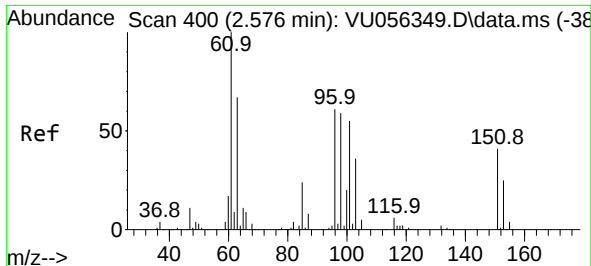
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.200 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.006 min

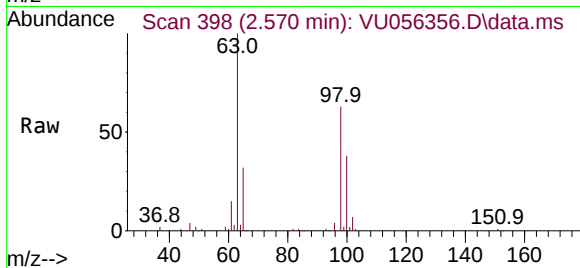
Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

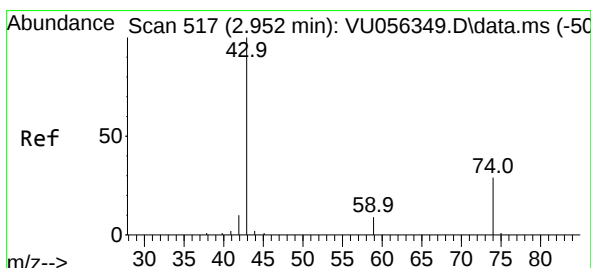
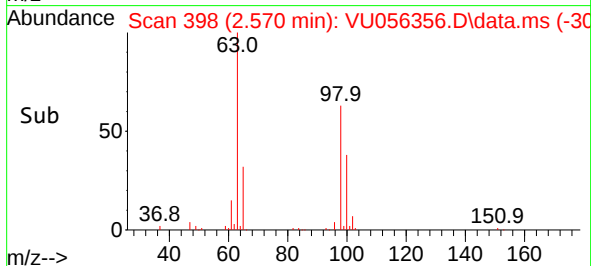
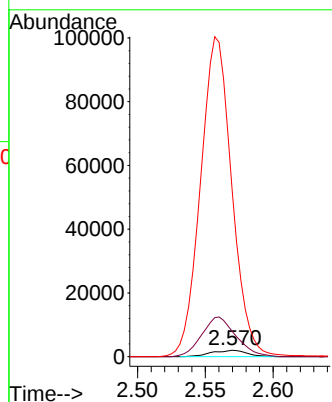
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	96	Resp:	3664
Ion	Ratio	Lower	Upper
96	100		
61	395.3	123.1	228.7#
63	2599.4	93.3	173.3#



#15

Methyl Acetate

Concen: 0.193 ug/L

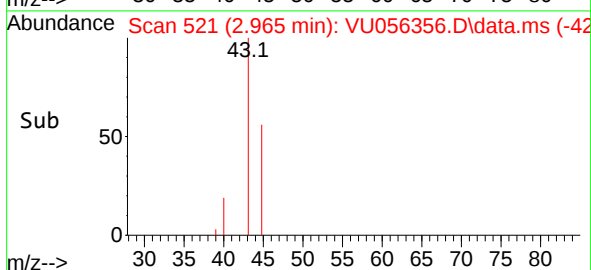
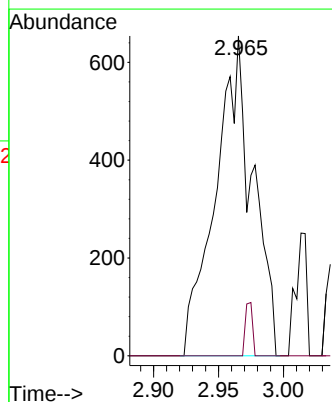
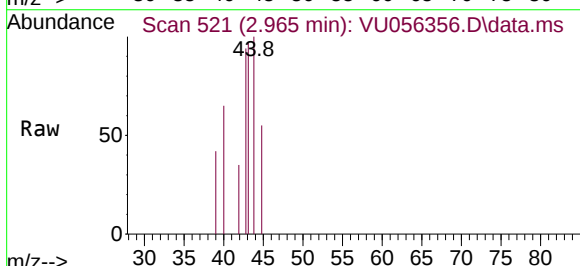
RT: 2.965 min Scan# 521

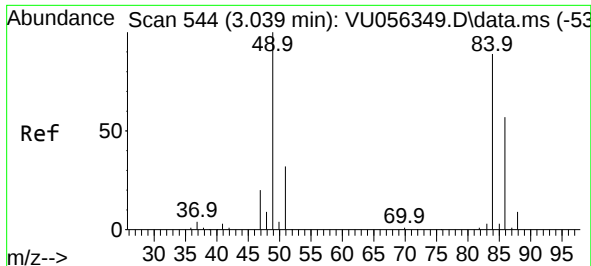
Delta R.T. 0.013 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Tgt Ion:	43	Resp:	1309
Ion	Ratio	Lower	Upper
43	100		
74	3.1	20.6	31.0#

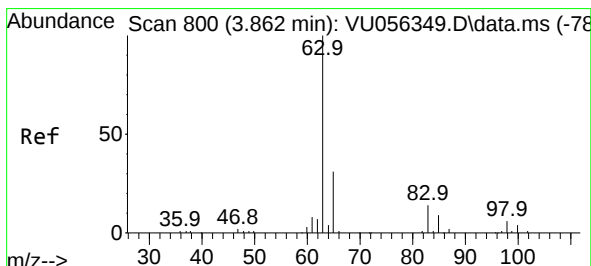
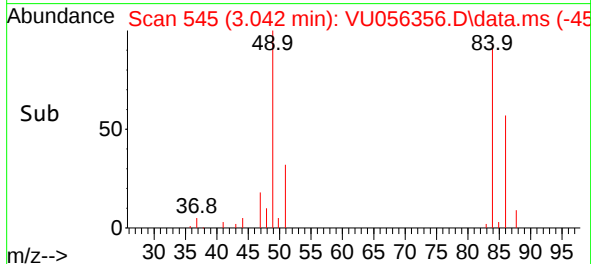
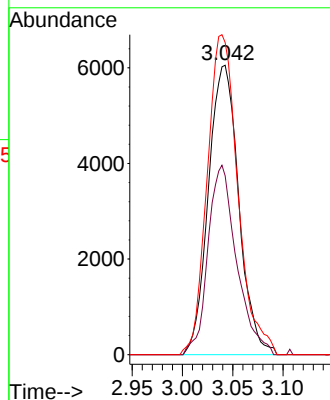
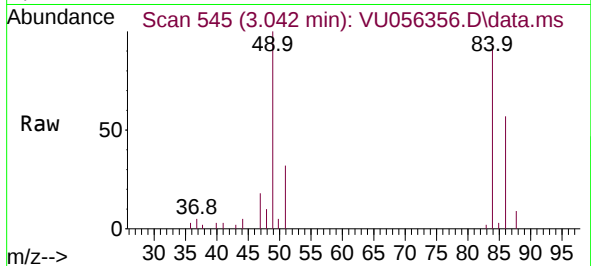




#16
Methylene chloride
Concen: 0.523 ug/L
RT: 3.042 min Scan# 54
Delta R.T. 0.003 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

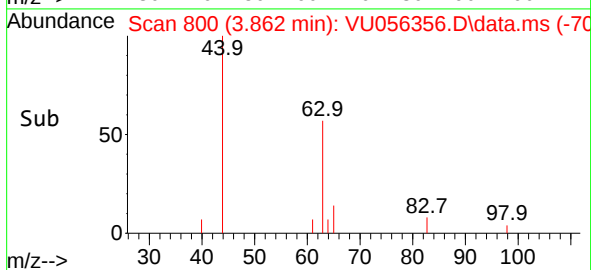
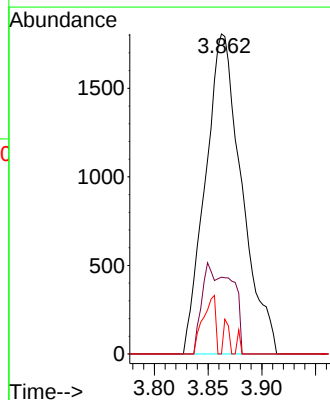
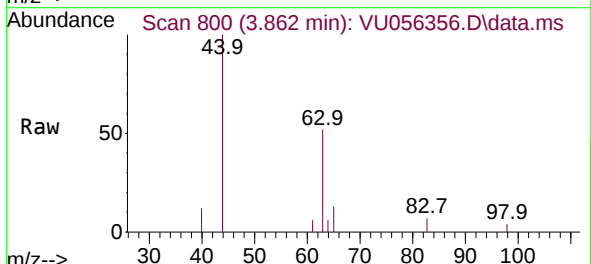
Instrument :
MSVOA_U
ClientSampleId :

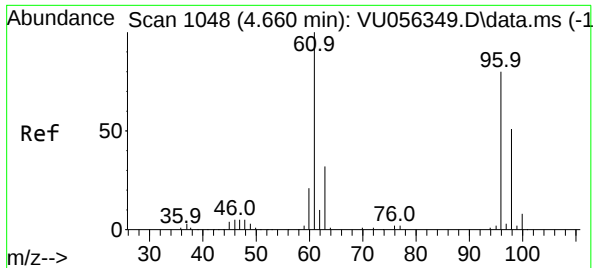
Tgt Ion: 84 Resp: 12702
Ion Ratio Lower Upper
84 100
86 61.8 44.7 83.1
49 113.0 81.8 152.0



#19
1,1-Dichloroethane
Concen: 0.114 ug/L
RT: 3.862 min Scan# 800
Delta R.T. 0.000 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

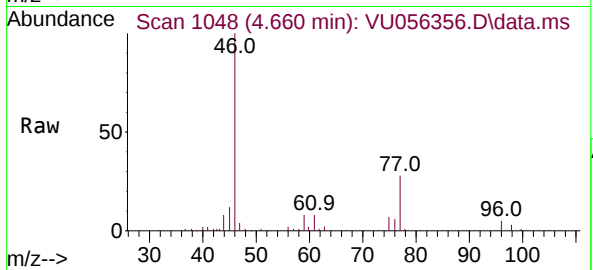
Tgt Ion: 63 Resp: 4248
Ion Ratio Lower Upper
63 100
65 24.0 21.8 40.6
83 0.0 9.7 17.9#





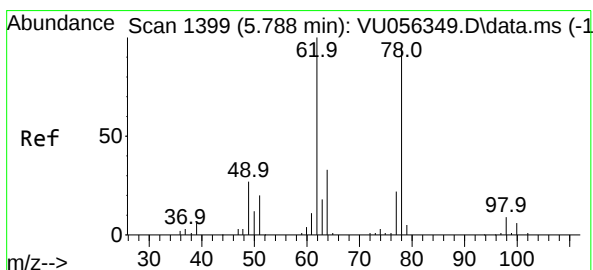
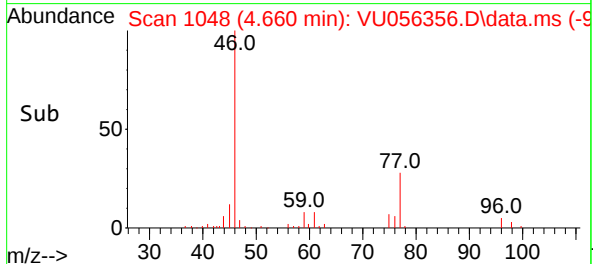
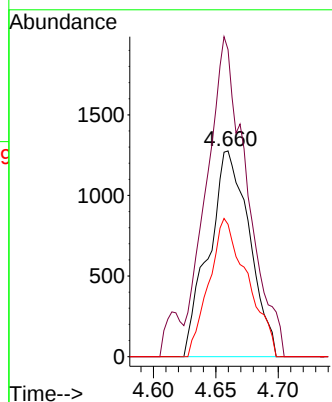
#22
 cis-1,2-Dichloroethene
 Concen: 0.135 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.000 min
 Lab File: VU056356.D
 Acq: 15 Nov 2023 15:37

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 2891

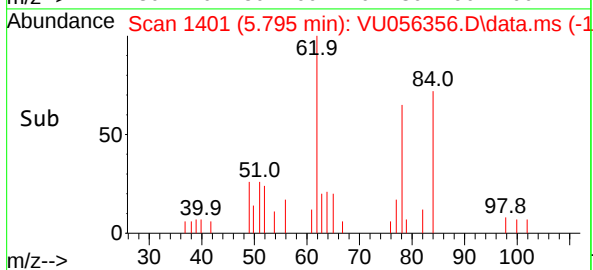
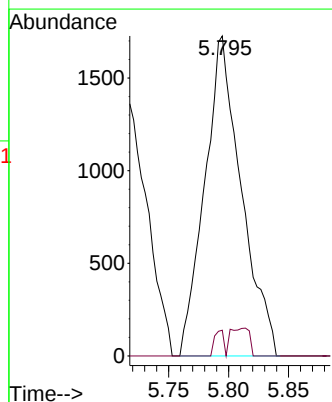
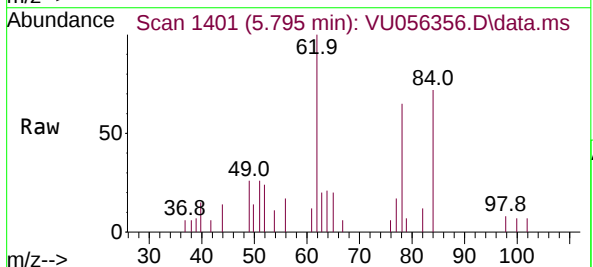
Ion	Ratio	Lower	Upper
96	100		
61	149.3	93.2	173.2
98	64.3	44.8	83.2

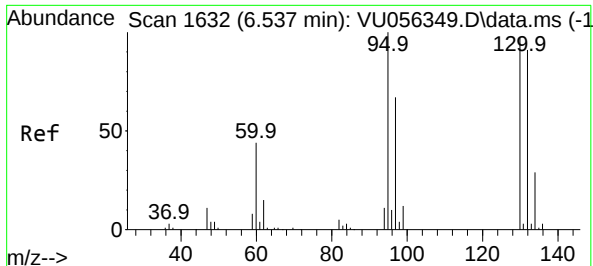


#27
 1,2-Dichloroethane
 Concen: 0.159 ug/L
 RT: 5.795 min Scan# 1401
 Delta R.T. 0.007 min
 Lab File: VU056356.D
 Acq: 15 Nov 2023 15:37

Tgt Ion: 62 Resp: 3663

Ion	Ratio	Lower	Upper
62	100		
98	8.0	6.6	10.0





#34

Trichloroethene

Concen: 4.817 ug/L

RT: 6.537 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 116550

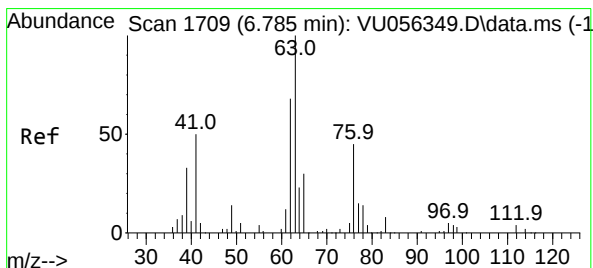
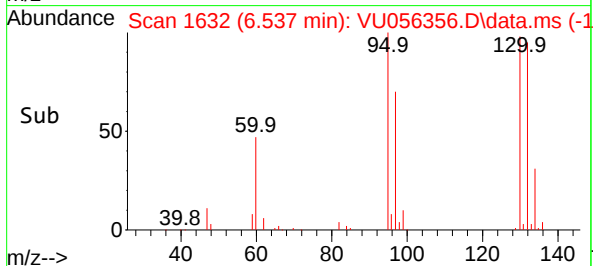
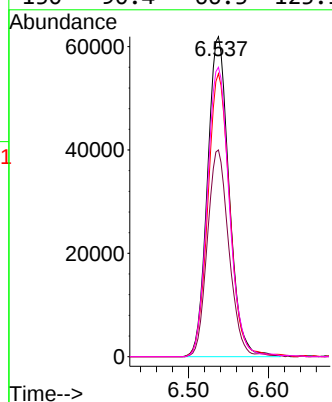
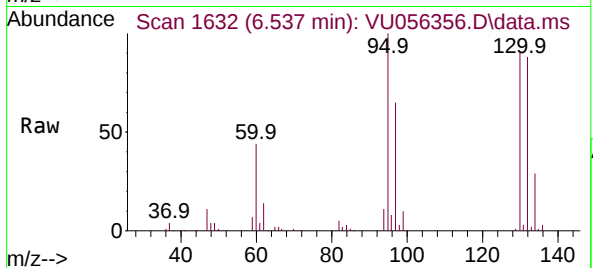
Ion Ratio Lower Upper

95 100

97 64.6 46.5 86.3

132 88.5 62.0 115.2

130 90.4 66.3 123.1



#37

1,2-Dichloropropane

Concen: 0.147 ug/L

RT: 6.791 min Scan# 1711

Delta R.T. 0.007 min

Lab File: VU056356.D

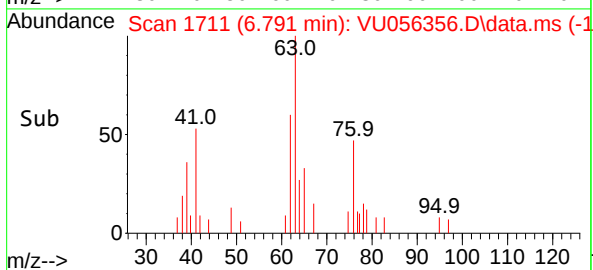
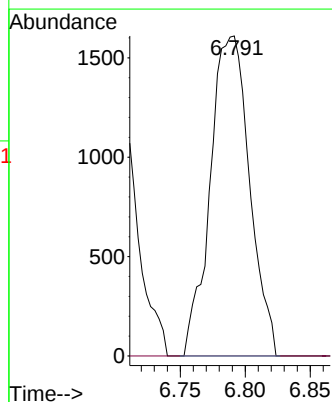
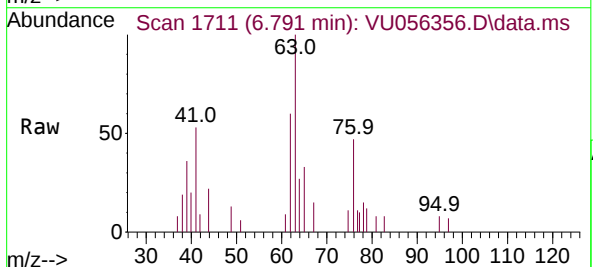
Acq: 15 Nov 2023 15:37

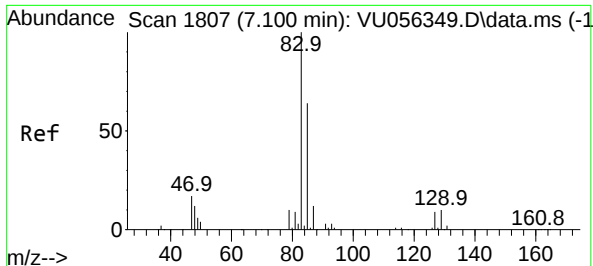
Tgt Ion: 63 Resp: 3402

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#





#38

Bromodichloromethane

Concen: 0.170 ug/L

RT: 7.103 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU056356.D

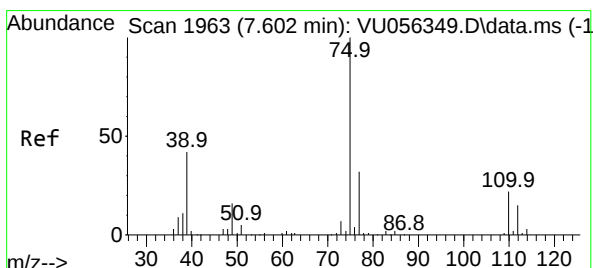
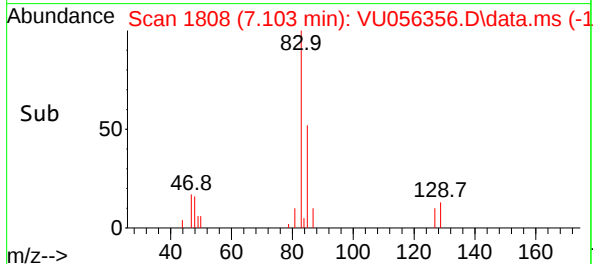
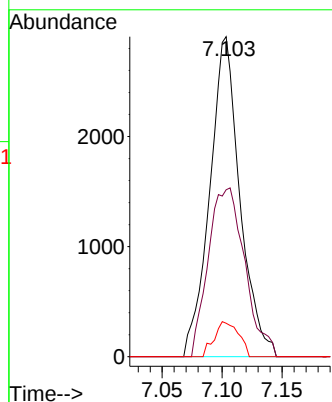
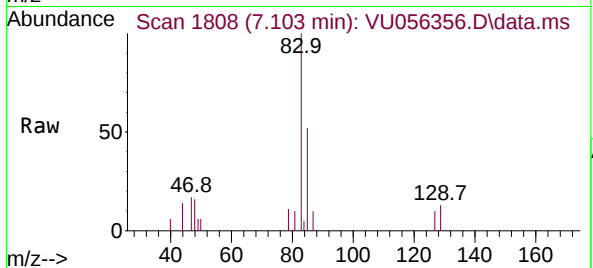
Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 5091
Ion Ratio	Lower Upper
83 100	
85 52.1	44.9 83.5
127 10.5	6.9 10.3#



#39

cis-1,3-Dichloropropene

Concen: 0.153 ug/L

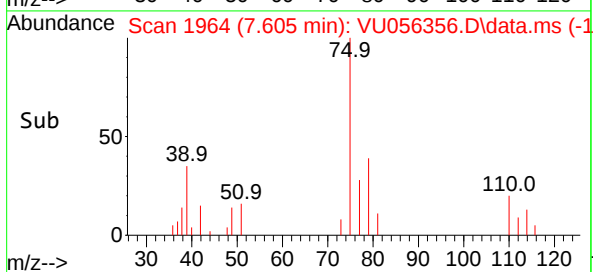
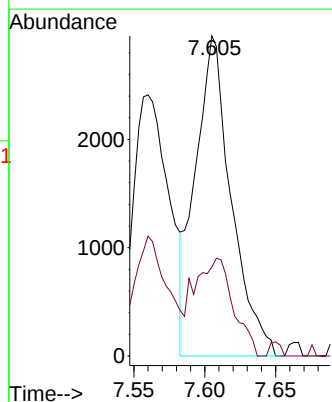
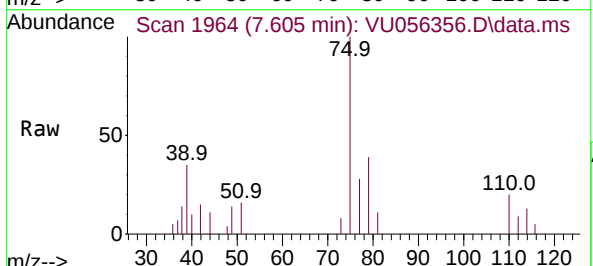
RT: 7.605 min Scan# 1964

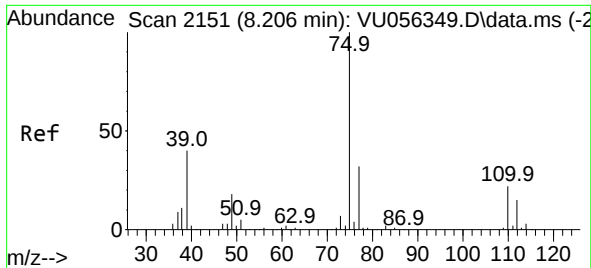
Delta R.T. 0.003 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Tgt Ion: 75	Resp: 5220
Ion Ratio	Lower Upper
75 100	
77 27.8	21.5 39.9

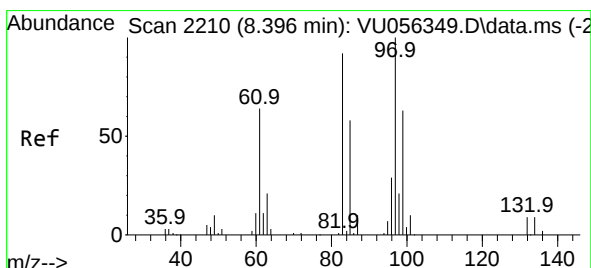
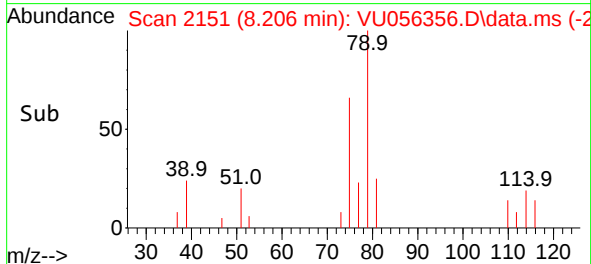
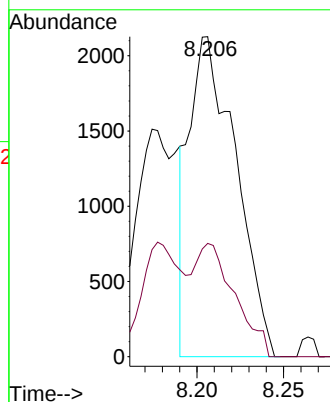
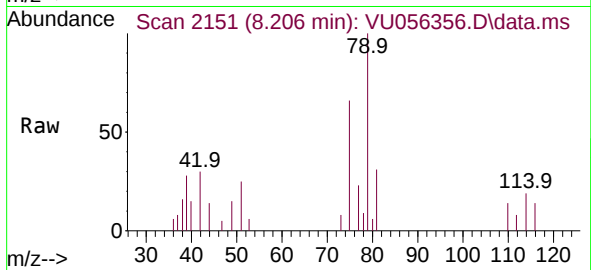




#44
trans-1,3-Dichloropropene
Concen: 0.147 ug/L
RT: 8.206 min Scan# 2151
Delta R.T. 0.000 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

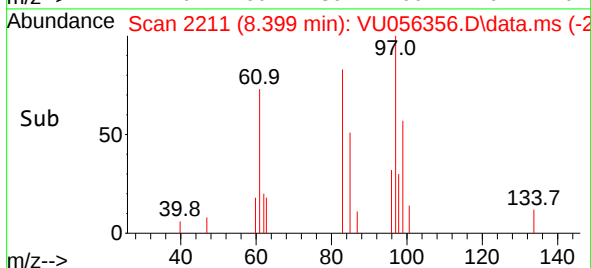
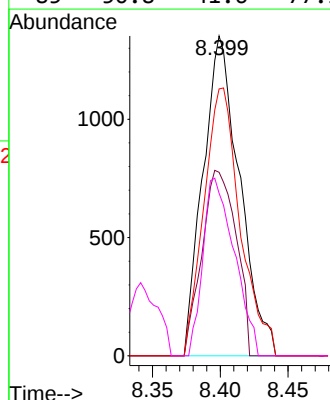
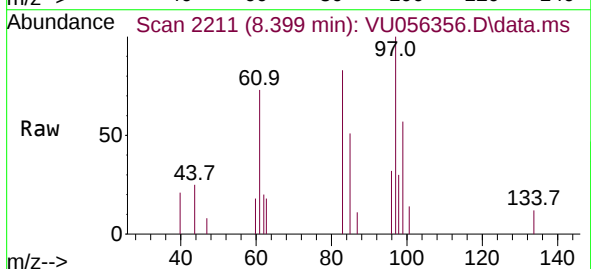
Instrument :
MSVOA_U
ClientSampleId :

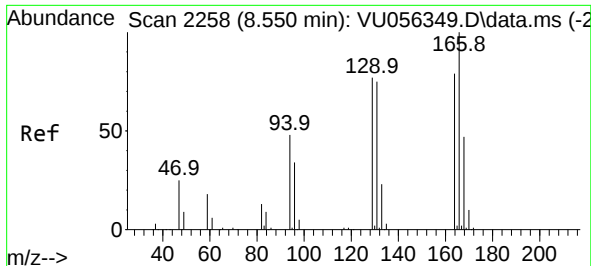
Tgt Ion: 75 Resp: 3983
Ion Ratio Lower Upper
75 100
77 35.4 22.8 42.4



#45
1,1,2-Trichloroethane
Concen: 0.164 ug/L
RT: 8.399 min Scan# 2211
Delta R.T. 0.003 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

Tgt Ion: 97 Resp: 2536
Ion Ratio Lower Upper
97 100
99 57.4 44.3 82.3
83 83.4 65.4 121.4
85 50.8 41.6 77.3





#47

Tetrachloroethene

Concen: 0.244 ug/L

RT: 8.550 min Scan# 21

Delta R.T. 0.000 min

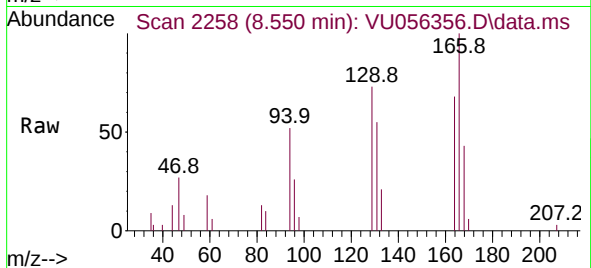
Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 3981

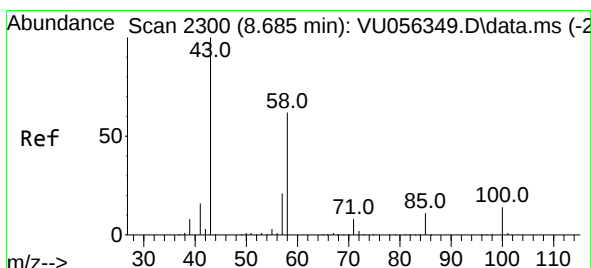
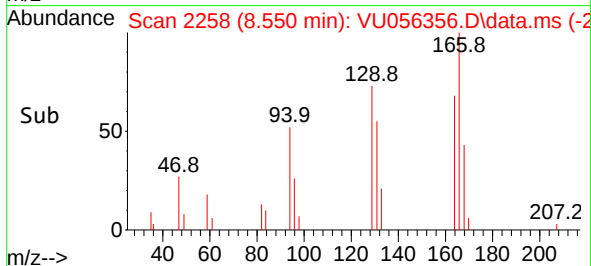
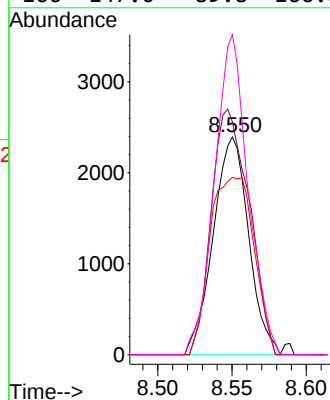
Ion Ratio Lower Upper

164 100

129 107.0 71.0 131.9

131 81.5 70.3 130.7

166 147.0 89.8 166.8



#48

2-Hexanone

Concen: 1.413 ug/L

RT: 8.698 min Scan# 2304

Delta R.T. 0.013 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Tgt Ion: 43 Resp: 12636

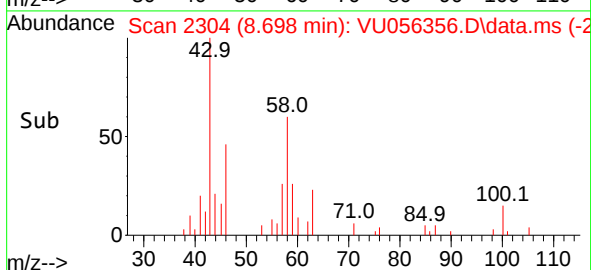
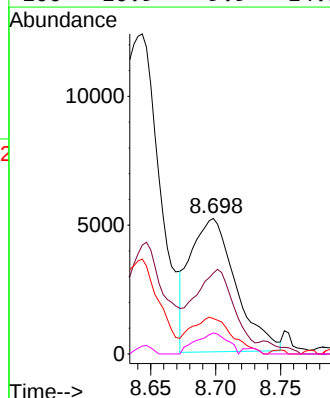
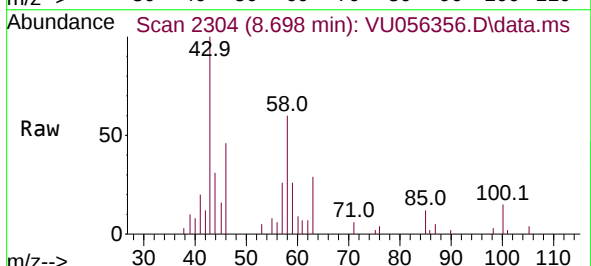
Ion Ratio Lower Upper

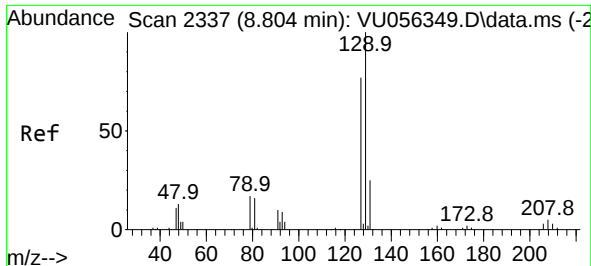
43 100

58 45.1 48.7 73.1#

57 24.7 16.8 25.2

100 10.9 9.9 14.9





#49

Dibromochloromethane

Concen: 0.162 ug/L

RT: 8.804 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

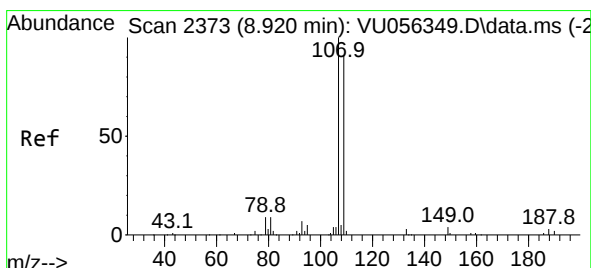
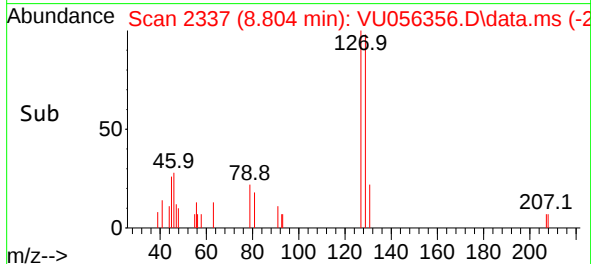
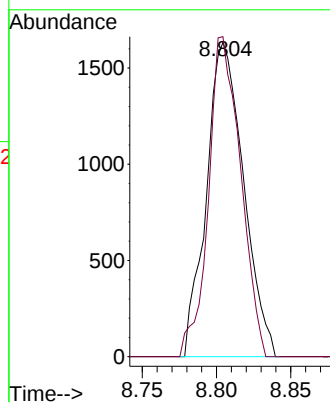
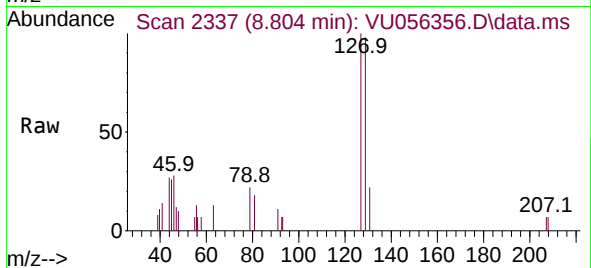
ClientSampleId :

Tgt Ion:129 Resp: 2844

Ion Ratio Lower Upper

129 100

127 101.8 52.9 98.3#



#50

1,2-Dibromoethane

Concen: 0.148 ug/L

RT: 8.923 min Scan# 2374

Delta R.T. 0.003 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

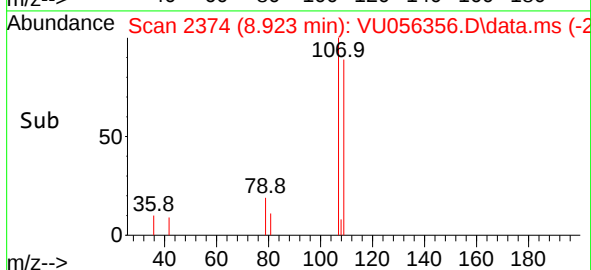
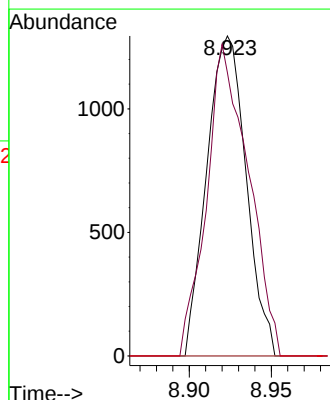
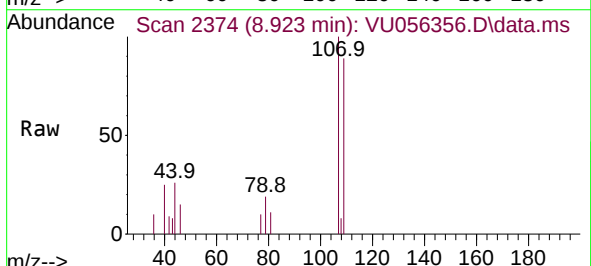
Tgt Ion:107 Resp: 2158

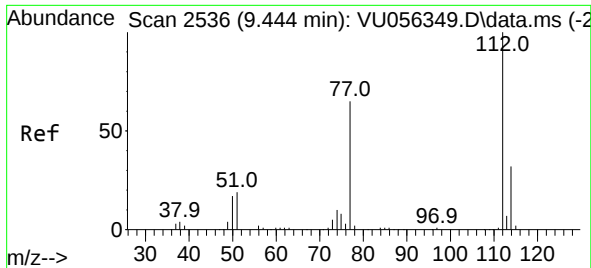
Ion Ratio Lower Upper

107 100

109 88.6 64.2 119.2

188 0.0 2.6 4.0#

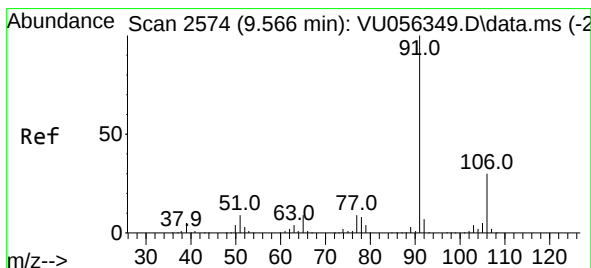
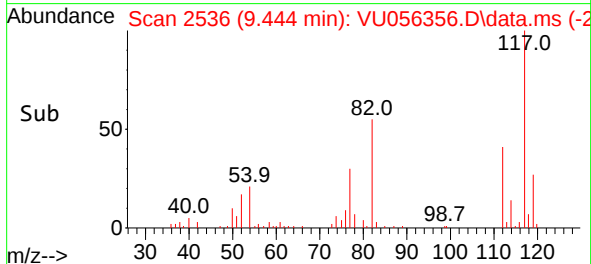
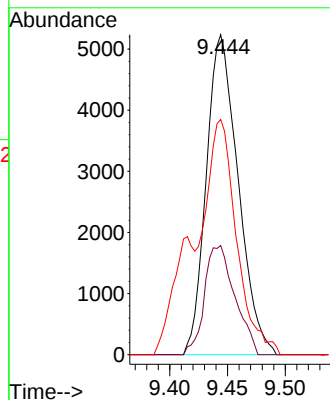
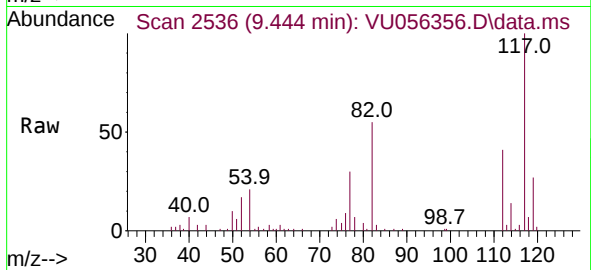




#51
Chlorobenzene
Concen: 0.170 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

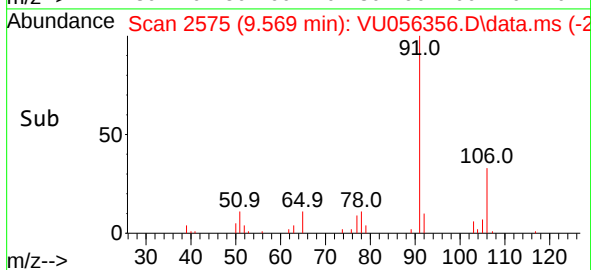
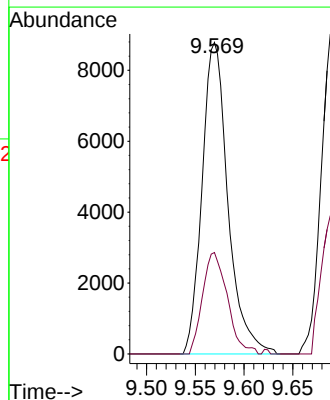
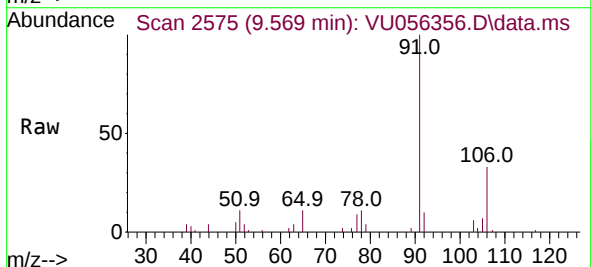
Instrument :
MSVOA_U
ClientSampleId :

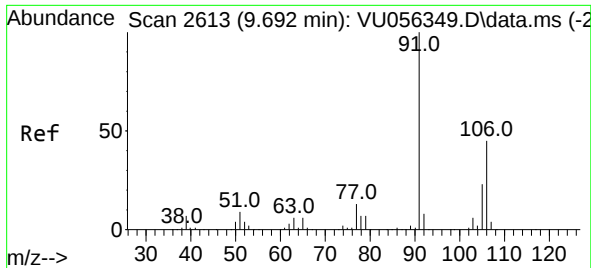
Tgt Ion:112 Resp: 10037
Ion Ratio Lower Upper
112 100
114 34.1 22.5 41.7
77 73.5 51.7 77.5



#52
Ethylbenzene
Concen: 0.159 ug/L
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

Tgt Ion: 91 Resp: 16243
Ion Ratio Lower Upper
91 100
106 32.5 21.1 39.1

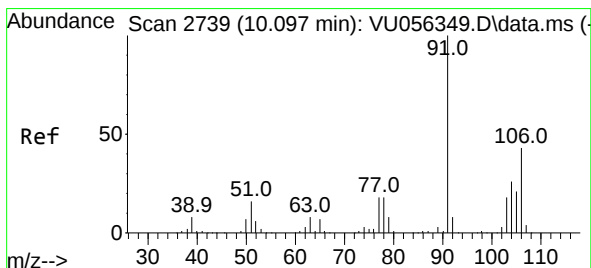
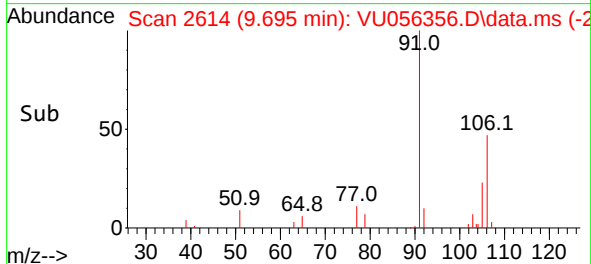
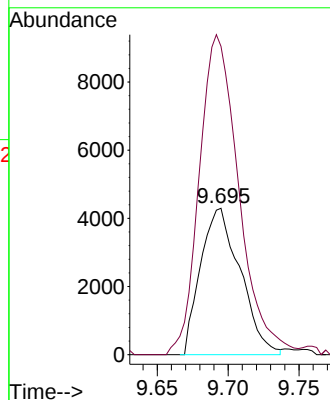
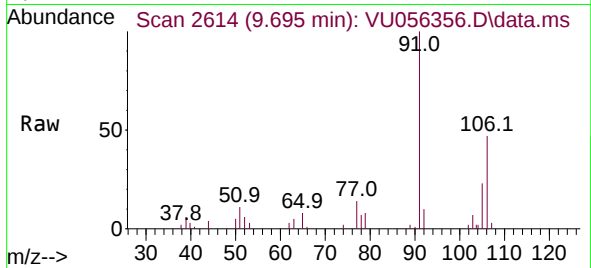




#53
m,p-Xylene
Concen: 0.223 ug/L
RT: 9.695 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

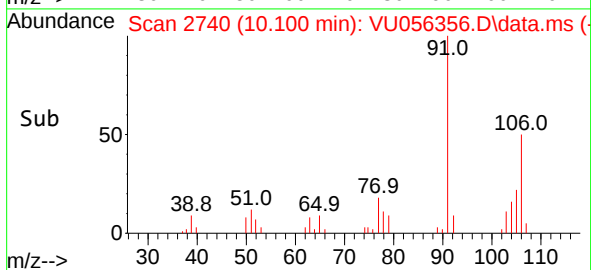
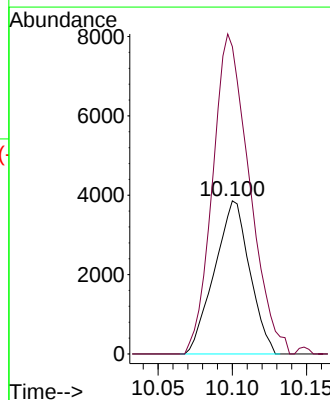
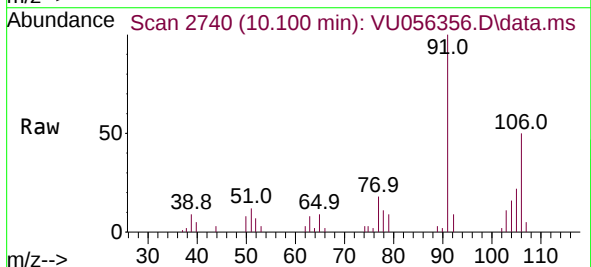
Instrument :
MSVOA_U
ClientSampleId :

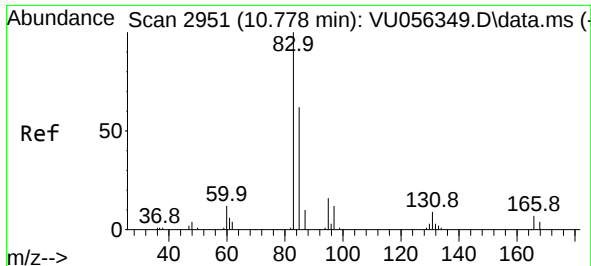
Tgt Ion:106 Resp: 8360
Ion Ratio Lower Upper
106 100
91 210.7 149.6 277.8



#54
o-Xylene
Concen: 0.174 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.003 min
Lab File: VU056356.D
Acq: 15 Nov 2023 15:37

Tgt Ion:106 Resp: 6360
Ion Ratio Lower Upper
106 100
91 200.8 159.3 295.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.174 ug/L

RT: 10.782 min Scan# 2951

Delta R.T. 0.003 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

ClientSampleId :

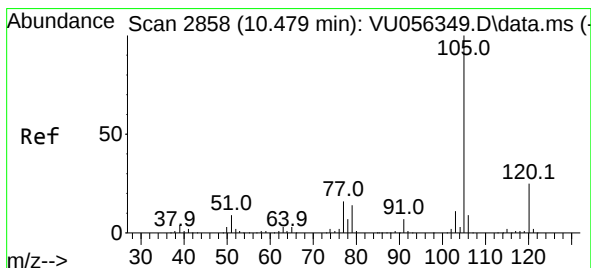
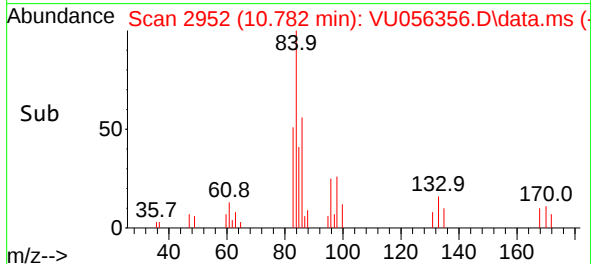
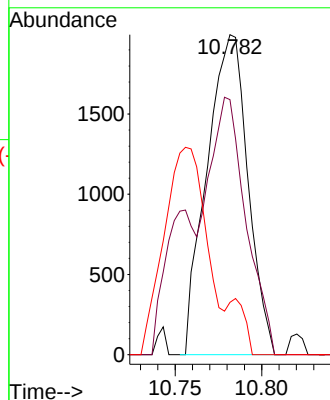
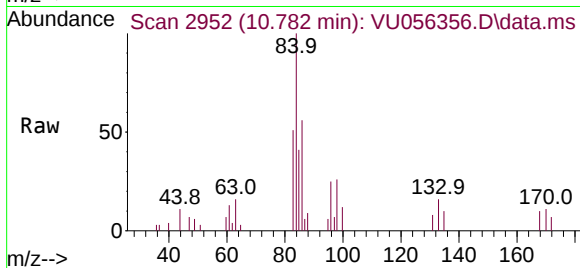
Tgt Ion: 83 Resp: 3286

Ion Ratio Lower Upper

83 100

85 79.7 46.3 86.1

131 16.3 6.7 10.1#



#60

Isopropylbenzene

Concen: 0.158 ug/L

RT: 10.483 min Scan# 2859

Delta R.T. 0.003 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

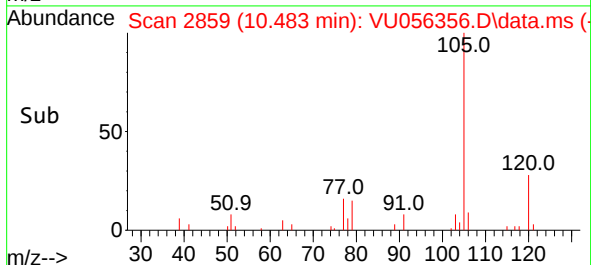
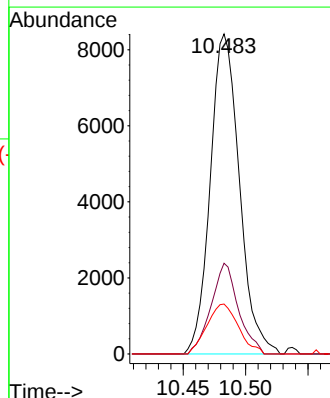
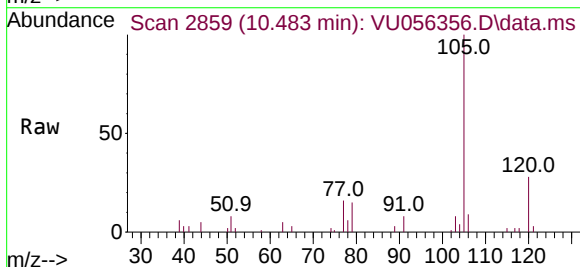
Tgt Ion: 105 Resp: 13709

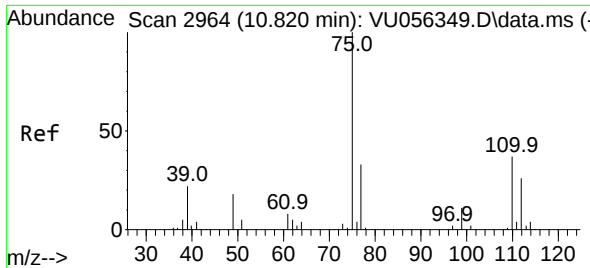
Ion Ratio Lower Upper

105 100

120 26.6 20.4 30.6

77 16.9 13.3 19.9

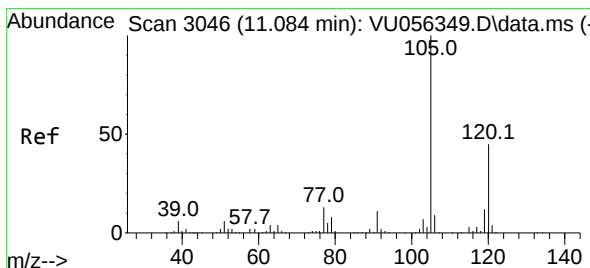
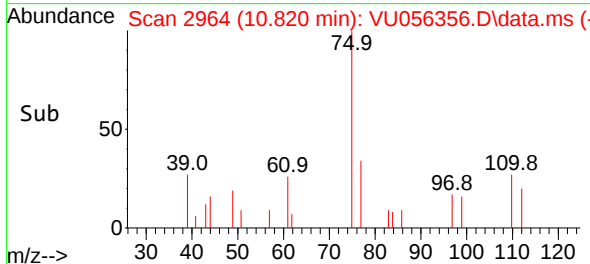
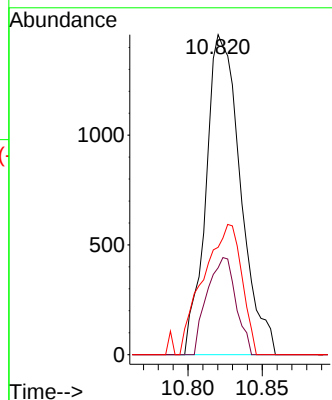
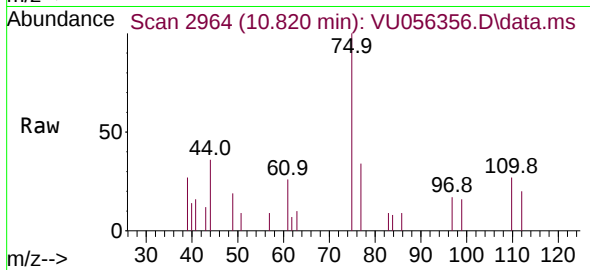




#61
 1,2,3-Trichloropropane
 Concen: 0.205 ug/L
 RT: 10.820 min Scan# 2964
 Delta R.T. 0.000 min
 Lab File: VU056356.D
 Acq: 15 Nov 2023 15:37

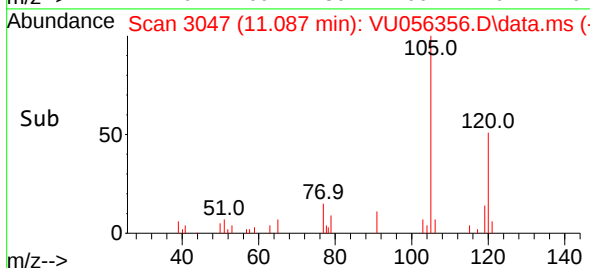
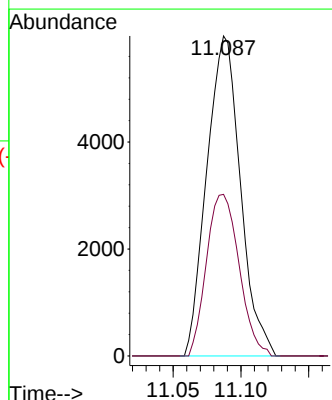
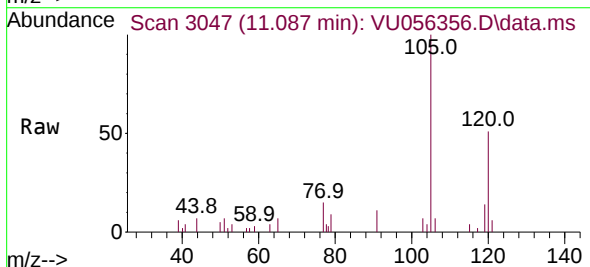
Instrument :
 MSVOA_U
 ClientSampleId :

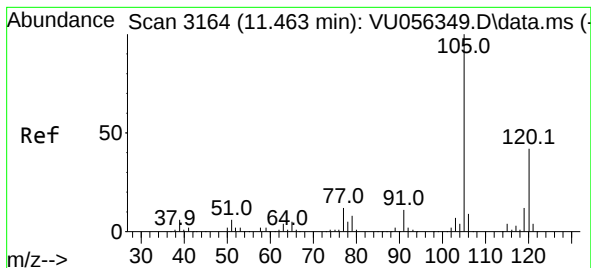
Tgt Ion: 75 Resp: 2361
 Ion Ratio Lower Upper
 75 100
 110 25.3 30.4 45.6#
 77 45.2 27.0 40.6#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.145 ug/L
 RT: 11.087 min Scan# 3047
 Delta R.T. 0.003 min
 Lab File: VU056356.D
 Acq: 15 Nov 2023 15:37

Tgt Ion: 105 Resp: 10307
 Ion Ratio Lower Upper
 105 100
 120 49.1 37.2 55.8





#63

1,2,4-Trimethylbenzene

Concen: 0.156 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

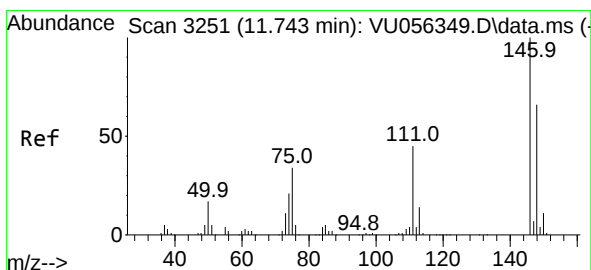
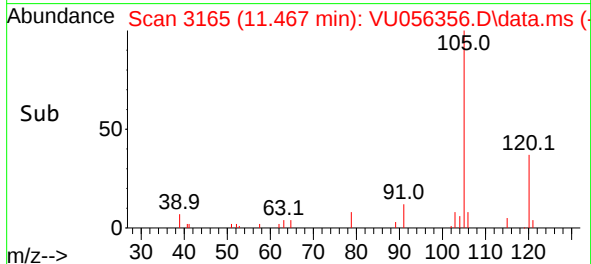
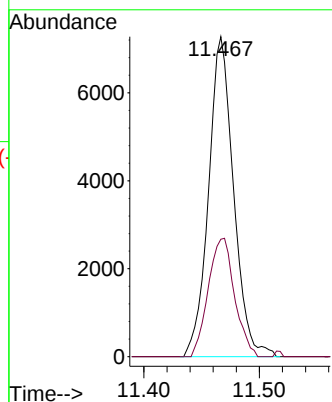
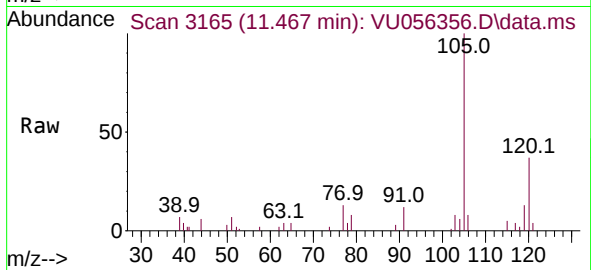
ClientSampleId :

Tgt Ion:105 Resp: 10952

Ion Ratio Lower Upper

105 100

120 38.9 34.0 51.0



#64

1,3-Dichlorobenzene

Concen: 0.164 ug/L

RT: 11.746 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

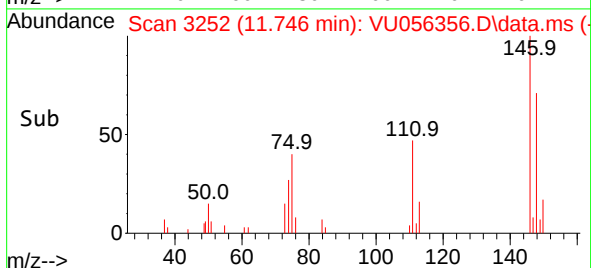
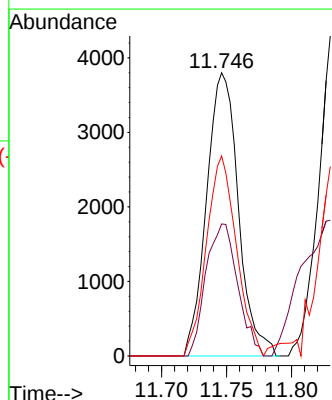
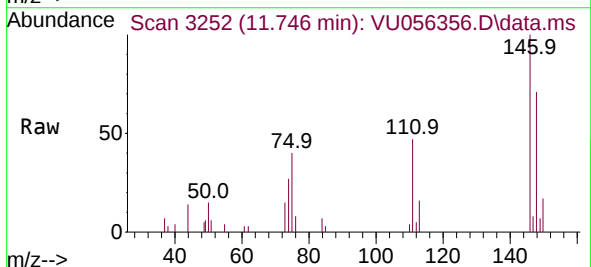
Tgt Ion:146 Resp: 6468

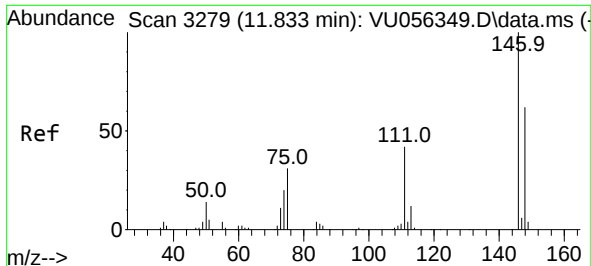
Ion Ratio Lower Upper

146 100

111 46.6 31.1 57.7

148 70.6 45.1 83.9





#65

1,4-Dichlorobenzene

Concen: 0.191 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

ClientSampleId :

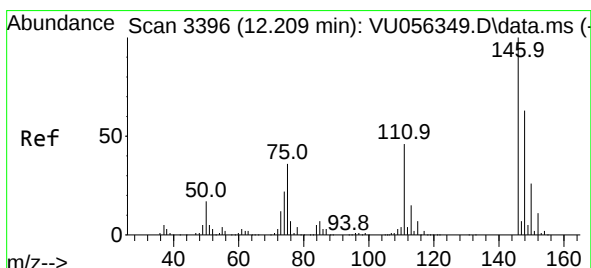
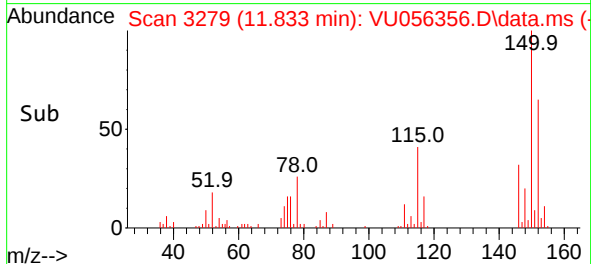
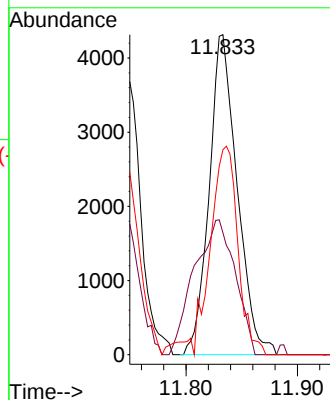
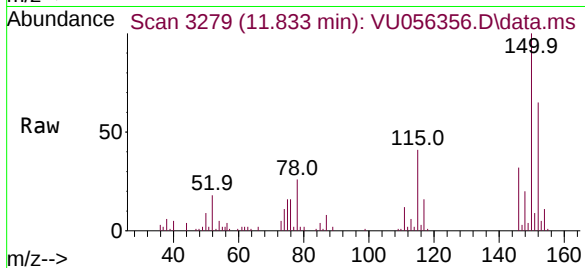
Tgt Ion:146 Resp: 7546

Ion Ratio Lower Upper

146 100

111 38.1 30.5 56.7

148 64.1 44.8 83.2



#67

1,2-Dichlorobenzene

Concen: 0.198 ug/L

RT: 12.209 min Scan# 3396

Delta R.T. 0.000 min

Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

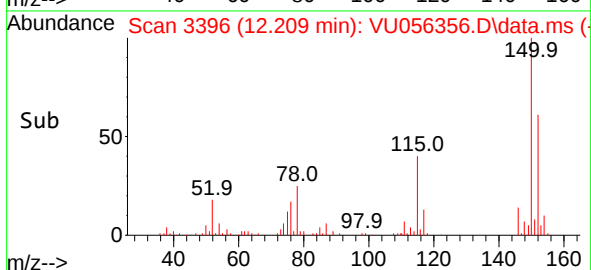
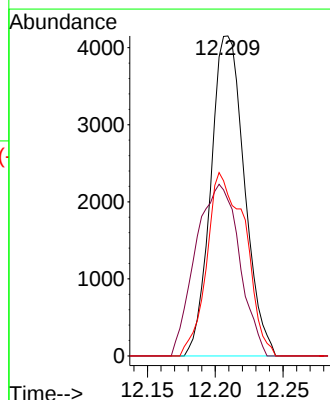
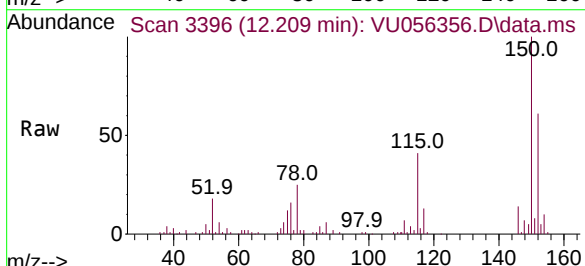
Tgt Ion:146 Resp: 7162

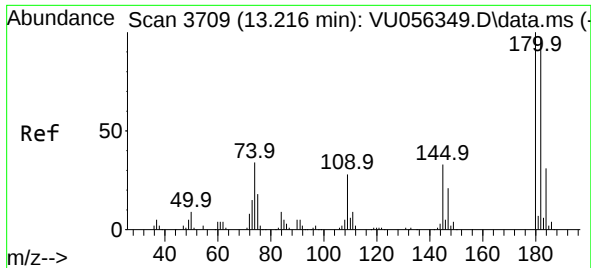
Ion Ratio Lower Upper

146 100

111 48.7 38.3 57.5

148 50.3 52.2 78.4#





#69

1,3,5-Trichlorobenzene

Concen: 0.185 ug/L

RT: 13.222 min Scan# 31

Delta R.T. 0.007 min

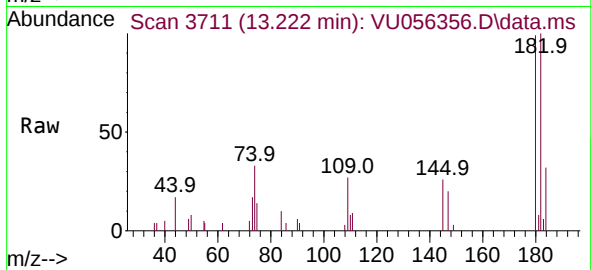
Lab File: VU056356.D

Acq: 15 Nov 2023 15:37

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 5504

Ion Ratio Lower Upper

180 100

182 89.1 75.1 112.7

184 29.9 23.5 35.3

145 28.5 25.4 38.0

