

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111323\
 Data File : VU056262.D
 Acq On : 13 Nov 2023 19:42
 Operator : MD/SY
 Sample : 05371-01DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 21:44:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 14 00:08:30 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	325466	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	320506	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	142318	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	69908	2.872	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.400%
7) Chloroethane-d5	1.907	69	52160	2.795	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	55.800%#
11) 1,1-Dichloroethene-d2	2.560	65	33474	3.116	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.400%
20) 2-Butanone-d5	4.628	46	190859	39.319	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.640%
24) Chloroform-d	5.055	84	167135	3.550	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.000%
26) 1,2-Dichloroethane-d4	5.695	65	82003	3.769	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.400%
32) Benzene-d6	5.721	84	334626	3.504	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.000%
36) 1,2-Dichloropropane-d6	6.685	67	108239	3.761	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	75.200%
41) Toluene-d8	7.894	98	289075	3.428	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.600%#
43) trans-1,3-Dichloroprop...	8.177	79	38856	3.520	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.400%
46) 2-Hexanone-d5	8.640	63	164172	37.848	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.700%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	82010	3.988	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	103056	3.920	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.400%#
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.567	96	2370	0.119	ug/L #	1
16) Methylene chloride	3.039	84	16287	0.618	ug/L	93
19) 1,1-Dichloroethane	3.866	63	4274	0.105	ug/L	97
22) cis-1,2-Dichloroethene	4.660	96	3184	0.137	ug/L	86
27) 1,2-Dichloroethane	5.792	62	3248	0.130	ug/L	99
29) 1,1,1-Trichloroethane	5.306	97	4429	0.120	ug/L	96
34) Trichloroethene	6.537	95	173755	6.973	ug/L	98
37) 1,2-Dichloropropane	6.785	63	3152	0.132	ug/L #	88
38) Bromodichloromethane	7.103	83	4978	0.162	ug/L	95
39) cis-1,3-Dichloropropene	7.605	75	4729	0.135	ug/L	96
45) 1,1,2-Trichloroethane	8.399	97	2096	0.132	ug/L #	83
47) Tetrachloroethene	8.550	164	7410	0.441	ug/L	94
48) 2-Hexanone	8.695	43	10474	1.137	ug/L #	35
49) Dibromochloromethane	8.804	129	2459	0.136	ug/L	99
50) 1,2-Dibromoethane	8.920	107	1936	0.129	ug/L #	83
51) Chlorobenzene	9.444	112	8670	0.143	ug/L	94
52) Ethylbenzene	9.570	91	15193	0.145	ug/L	99
53) m,p-Xylene	9.698	106	6434	0.166	ug/L	95
54) o-Xylene	10.100	106	5115	0.136	ug/L	96

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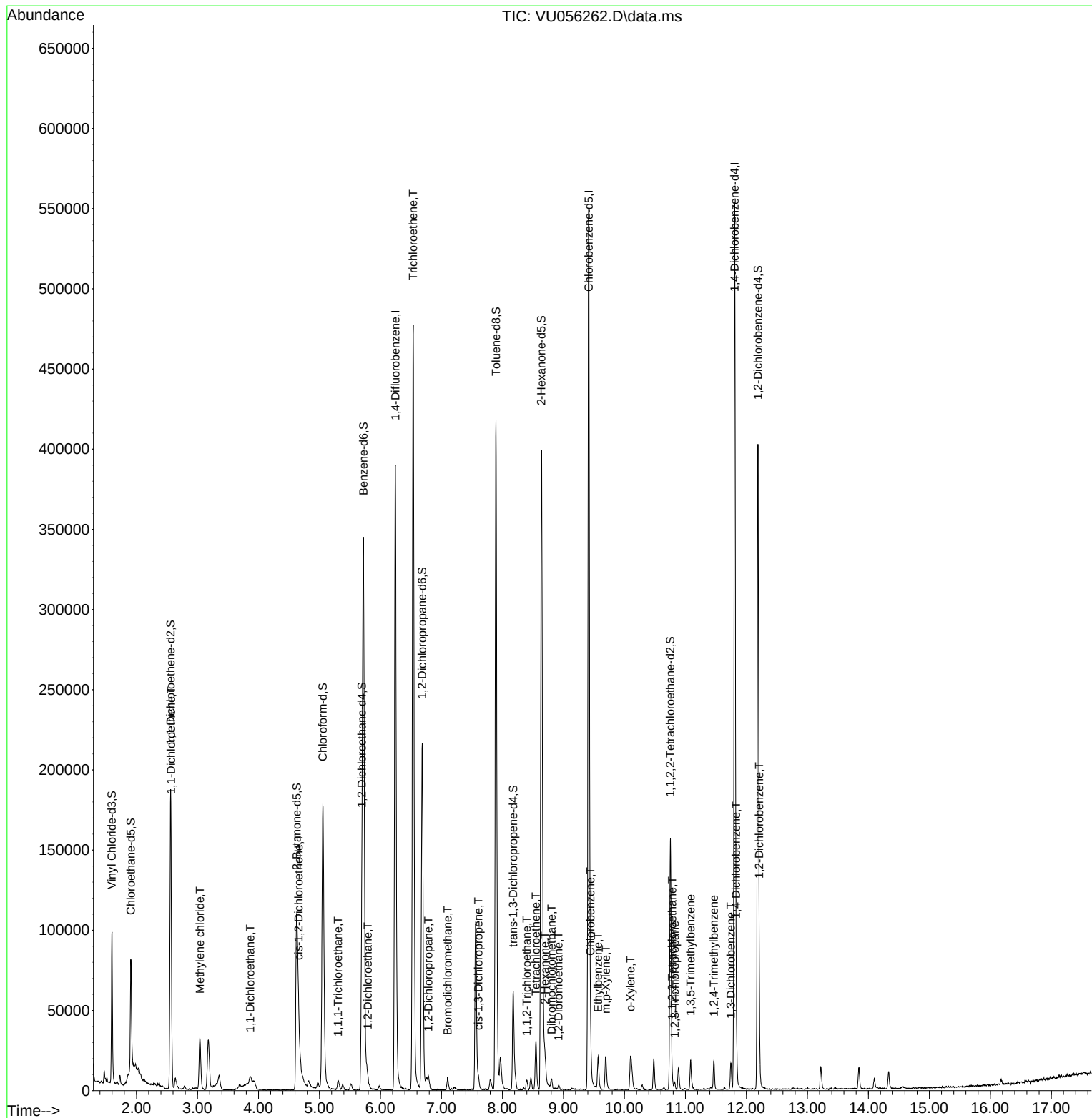
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.782	83	2820	0.145	ug/L #	93
61) 1,2,3-Trichloropropane	10.827	75	2185	0.179	ug/L #	90
62) 1,3,5-Trimethylbenzene	11.087	105	9995	0.133	ug/L	100
63) 1,2,4-Trimethylbenzene	11.467	105	10003	0.134	ug/L	100
64) 1,3-Dichlorobenzene	11.746	146	6565	0.157	ug/L	96
65) 1,4-Dichlorobenzene	11.833	146	7670	0.183	ug/L	95
67) 1,2-Dichlorobenzene	12.209	146	6292	0.164	ug/L	94

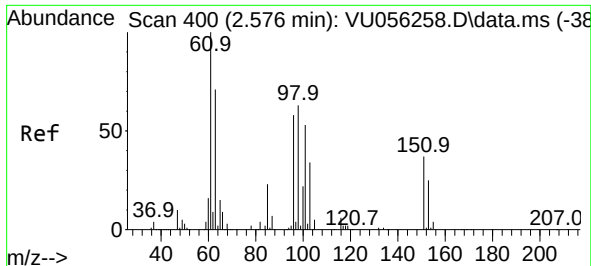
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.119 ug/L

RT: 2.567 min Scan# 397

Delta R.T. -0.010 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

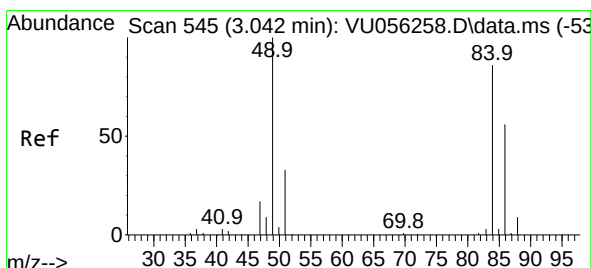
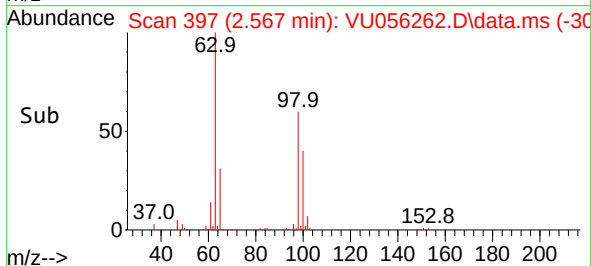
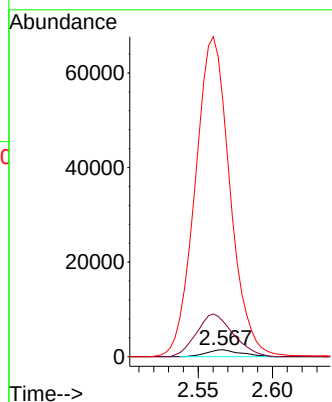
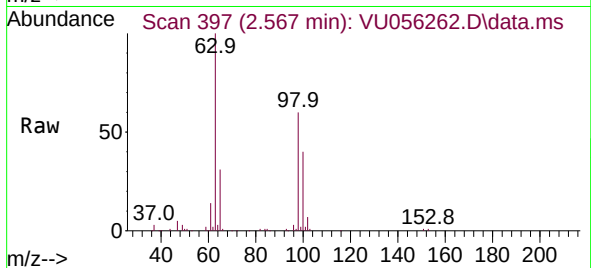
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 2370

Ion	Ratio	Lower	Upper
96	100		
61	521.7	123.1	228.7#
63	3743.3	93.3	173.3#



#16

Methylene chloride

Concen: 0.618 ug/L

RT: 3.039 min Scan# 544

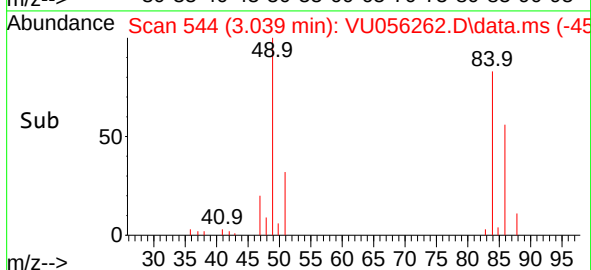
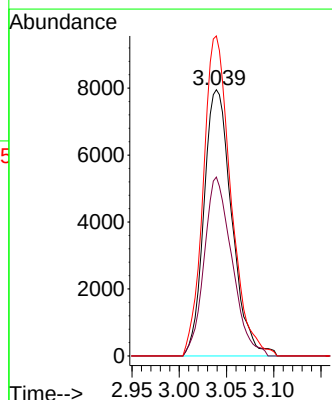
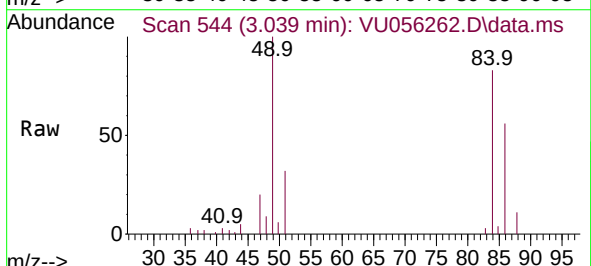
Delta R.T. -0.003 min

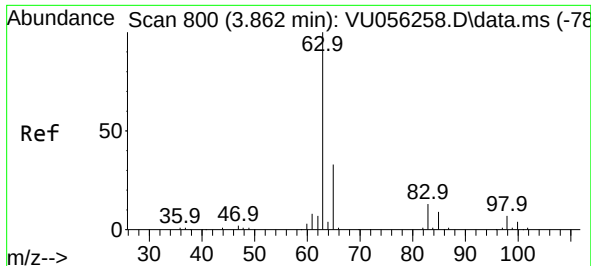
Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Tgt Ion: 84 Resp: 16287

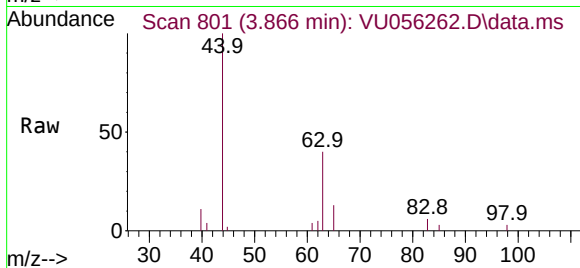
Ion	Ratio	Lower	Upper
84	100		
86	67.2	44.7	83.1
49	127.1	81.8	152.0



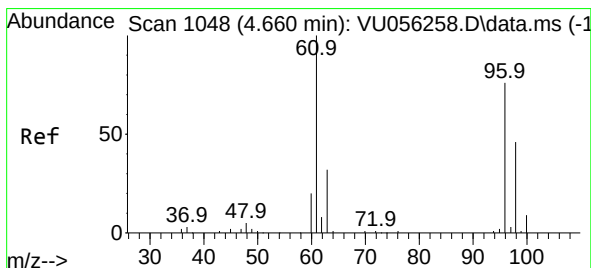
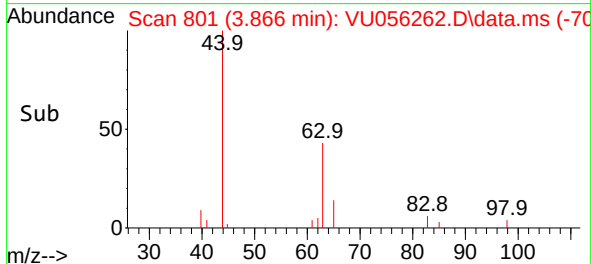
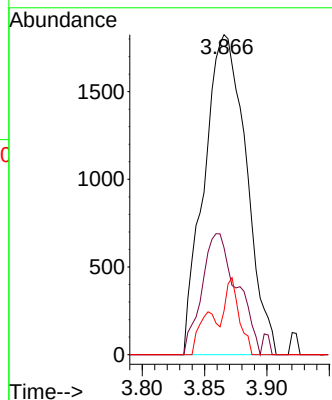


#19
1,1-Dichloroethane
Concen: 0.105 ug/L
RT: 3.866 min Scan# 800
Delta R.T. 0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Instrument :
MSVOA_U
ClientSampleId :

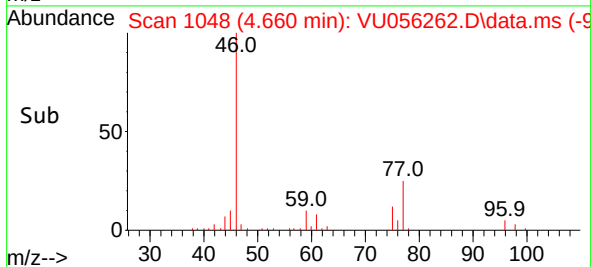
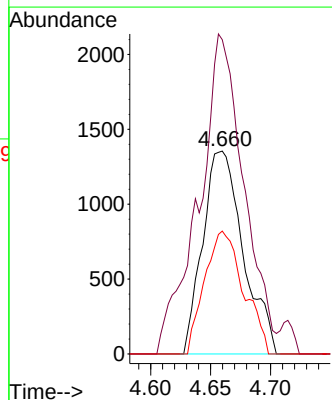
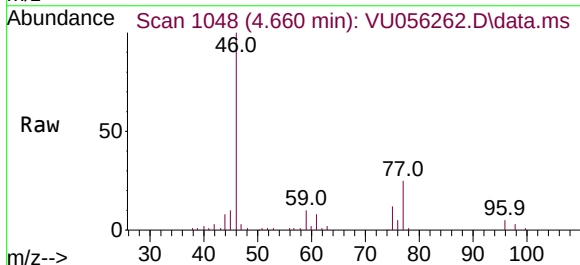


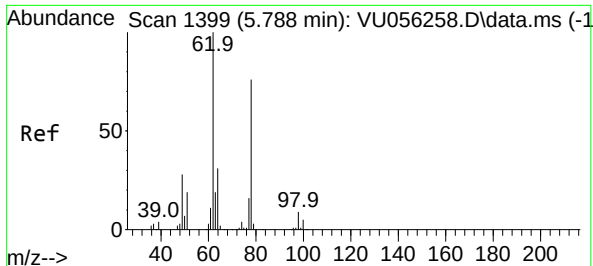
Tgt Ion: 63 Resp: 4274
Ion Ratio Lower Upper
63 100
65 33.4 21.8 40.6
83 13.7 9.7 17.9



#22
cis-1,2-Dichloroethene
Concen: 0.137 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Tgt Ion: 96 Resp: 3184
Ion Ratio Lower Upper
96 100
61 154.9 93.2 173.2
98 60.6 44.8 83.2

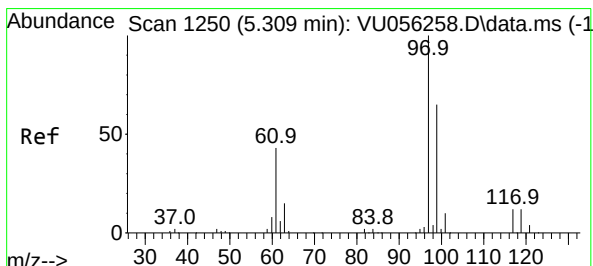
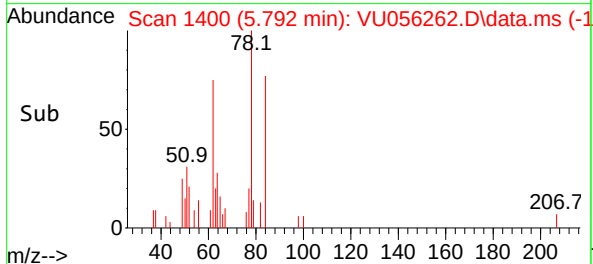
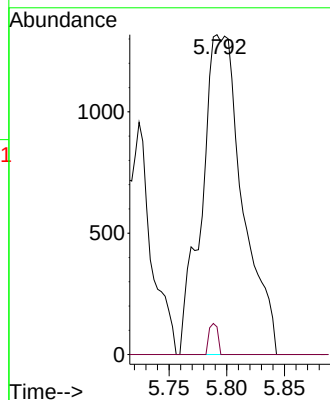
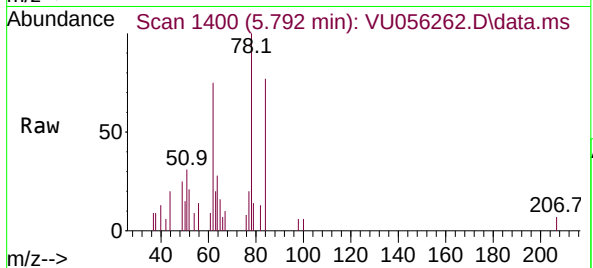




#27
1,2-Dichloroethane
Concen: 0.130 ug/L
RT: 5.792 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

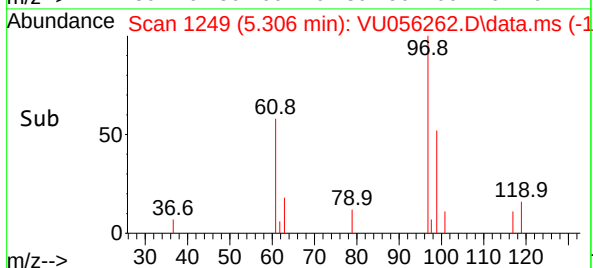
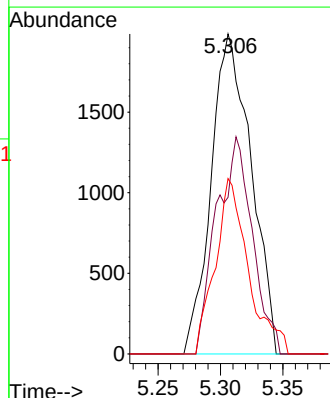
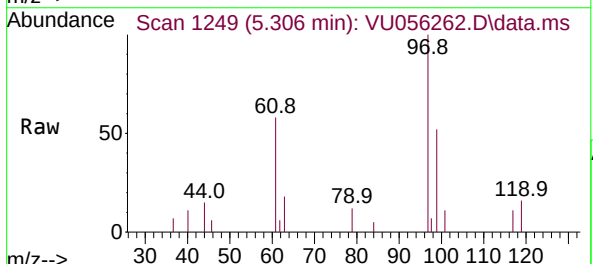
Instrument :
MSVOA_U
ClientSampleId :

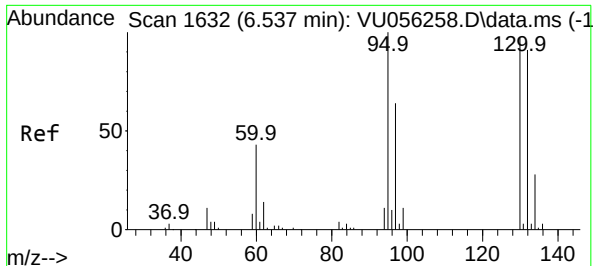
Tgt Ion: 62 Resp: 3248
Ion Ratio Lower Upper
62 100
98 8.6 6.6 10.0



#29
1,1,1-Trichloroethane
Concen: 0.120 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. -0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Tgt Ion: 97 Resp: 4429
Ion Ratio Lower Upper
97 100
99 60.9 51.6 77.4
61 45.5 34.3 51.5





#34

Trichloroethene

Concen: 6.973 ug/L

RT: 6.537 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 173755

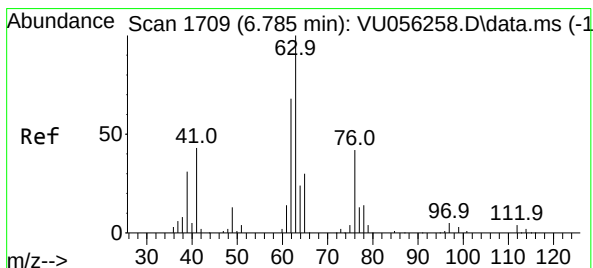
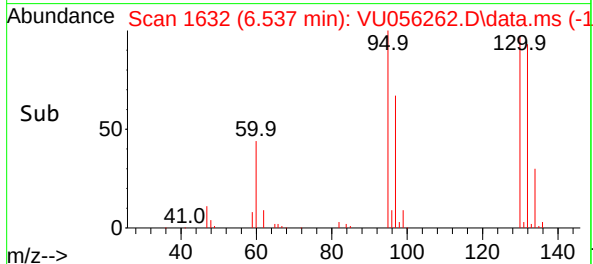
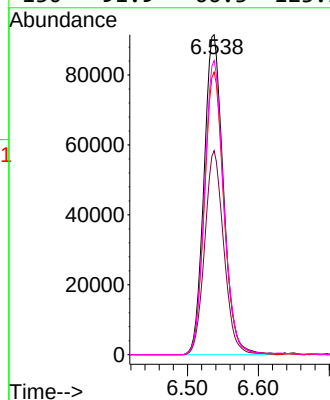
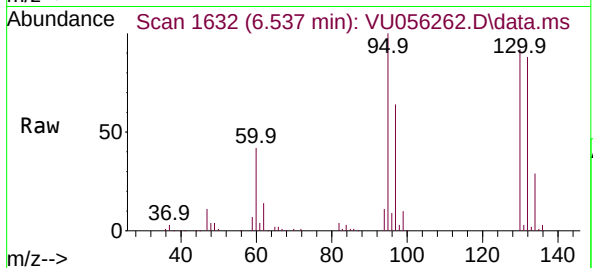
Ion Ratio Lower Upper

95 100

97 63.8 46.5 86.3

132 88.3 62.0 115.2

130 91.9 66.3 123.1



#37

1,2-Dichloropropane

Concen: 0.132 ug/L

RT: 6.785 min Scan# 1709

Delta R.T. 0.000 min

Lab File: VU056262.D

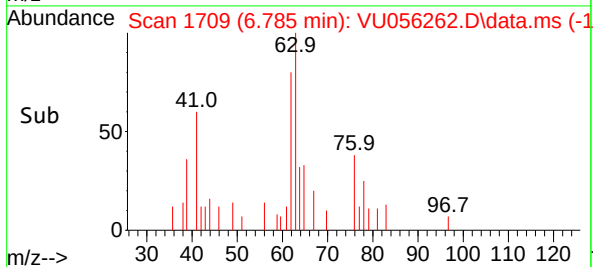
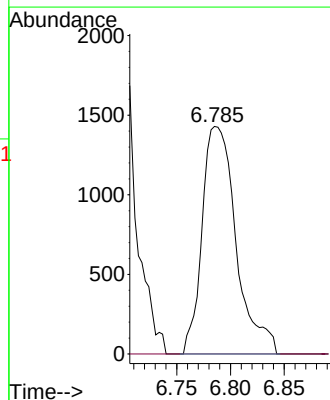
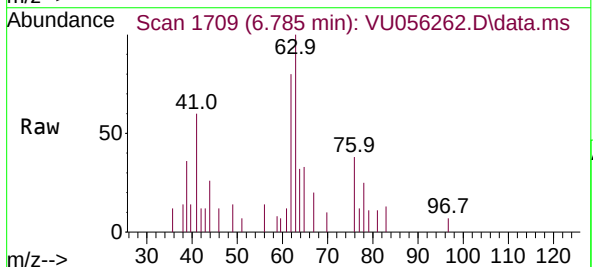
Acq: 13 Nov 2023 19:42

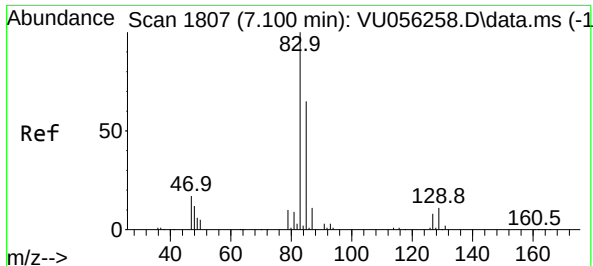
Tgt Ion: 63 Resp: 3152

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#





#38

Bromodichloromethane

Concen: 0.162 ug/L

RT: 7.103 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Instrument :

MSVOA_U

ClientSampleId :

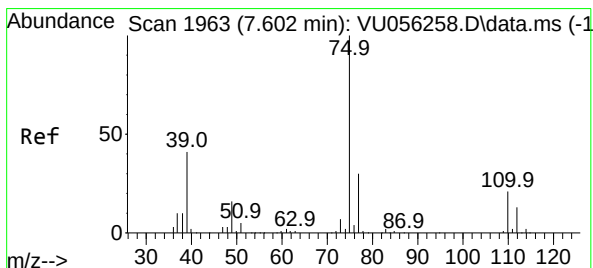
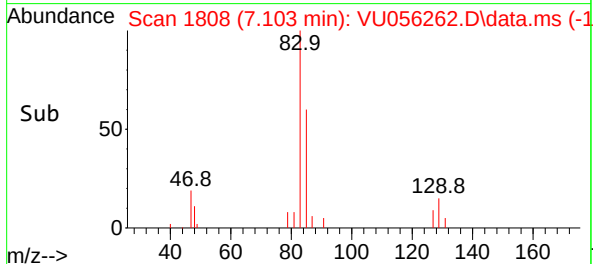
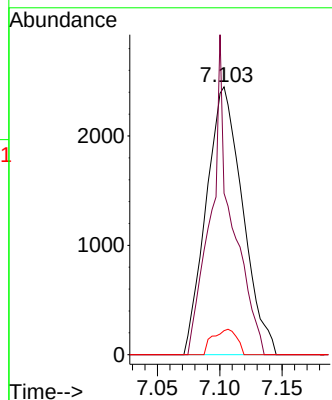
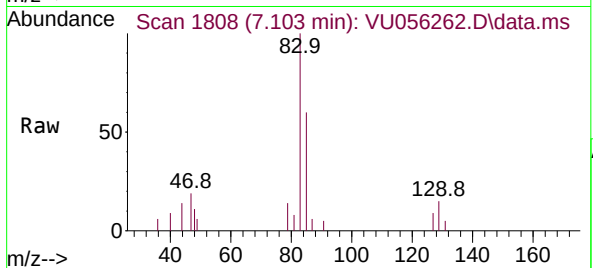
Tgt Ion: 83 Resp: 4978

Ion Ratio Lower Upper

83 100

85 60.3 44.9 83.5

127 9.0 6.9 10.3



#39

cis-1,3-Dichloropropene

Concen: 0.135 ug/L

RT: 7.605 min Scan# 1964

Delta R.T. 0.003 min

Lab File: VU056262.D

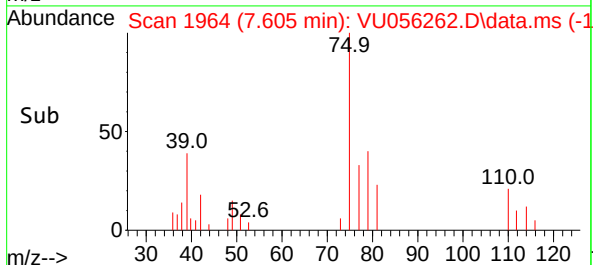
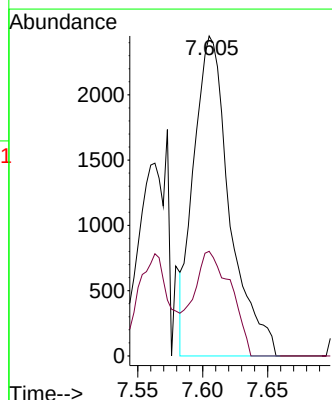
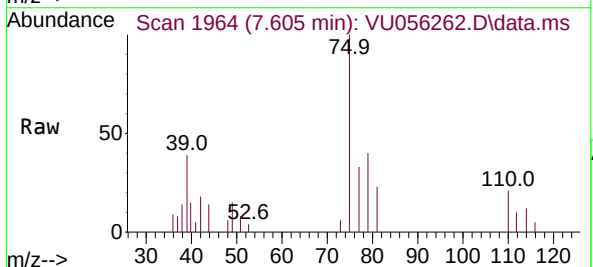
Acq: 13 Nov 2023 19:42

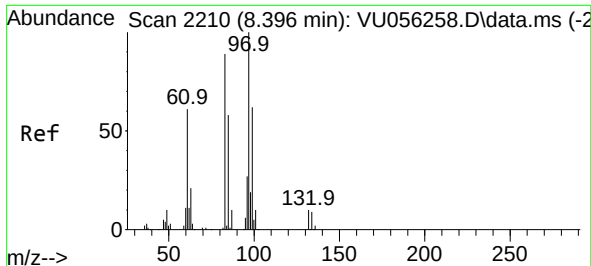
Tgt Ion: 75 Resp: 4729

Ion Ratio Lower Upper

75 100

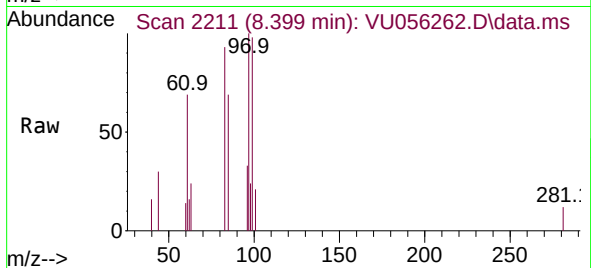
77 32.7 21.5 39.9



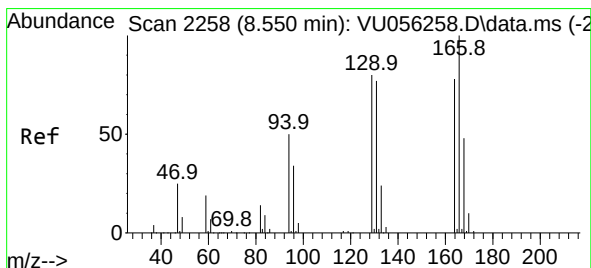
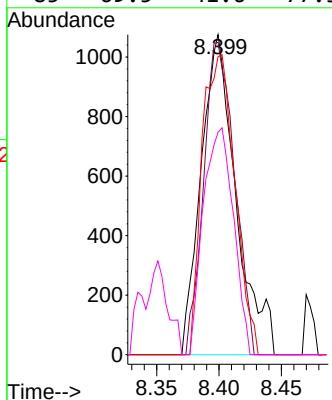
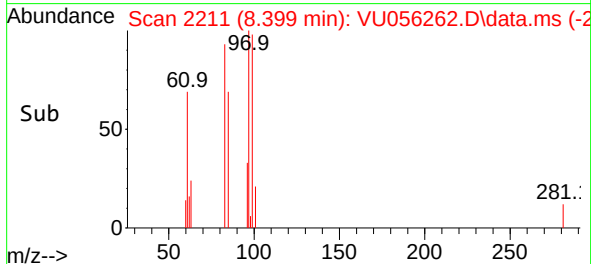


#45
1,1,2-Trichloroethane
Concen: 0.132 ug/L
RT: 8.399 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

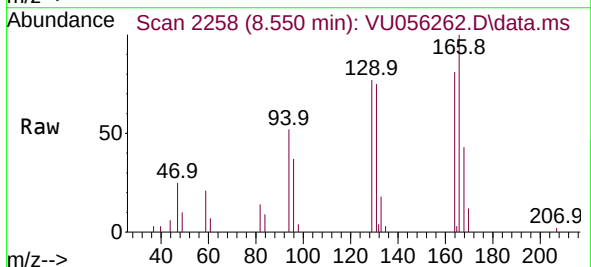
Instrument :
MSVOA_U
ClientSampleId :



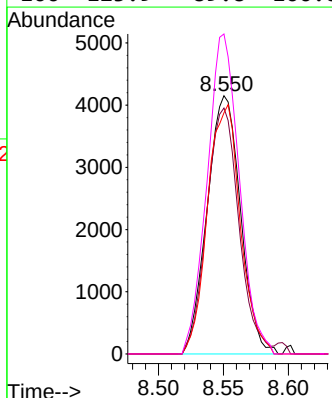
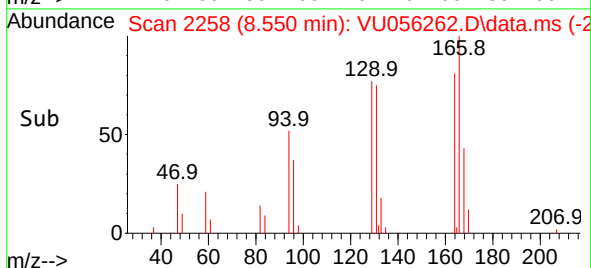
Tgt Ion:	97	Resp:	2096
Ion	Ratio	Lower	Upper
97	100		
99	97.6	44.3	82.3#
83	93.1	65.4	121.4
85	69.5	41.6	77.3

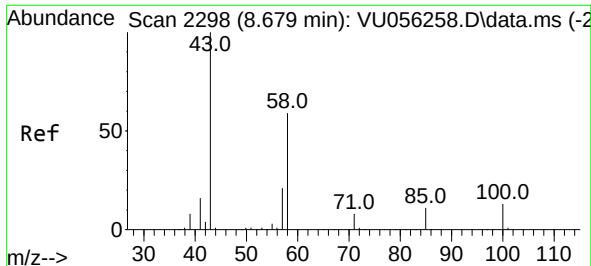


#47
Tetrachloroethene
Concen: 0.441 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42



Tgt Ion:	164	Resp:	7410
Ion	Ratio	Lower	Upper
164	100		
129	95.3	71.0	131.9
131	93.4	70.3	130.7
166	123.9	89.8	166.8

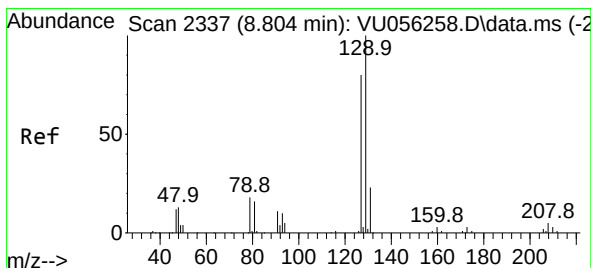
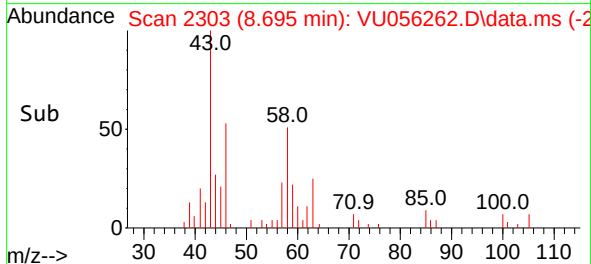
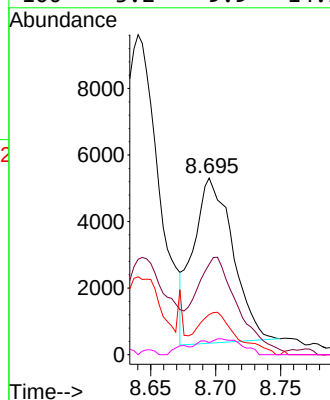
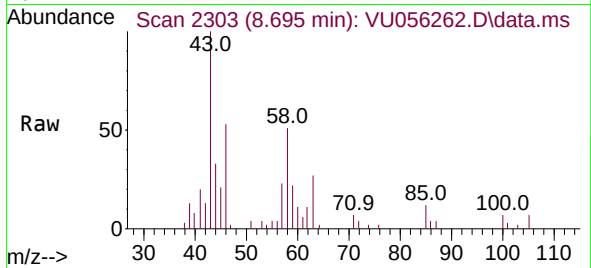




#48
2-Hexanone
Concen: 1.137 ug/L
RT: 8.695 min Scan# 21
Delta R.T. 0.016 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

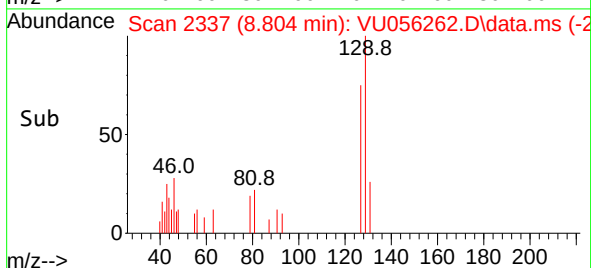
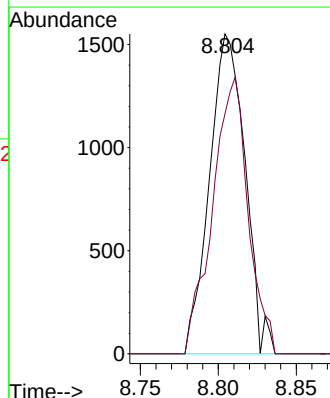
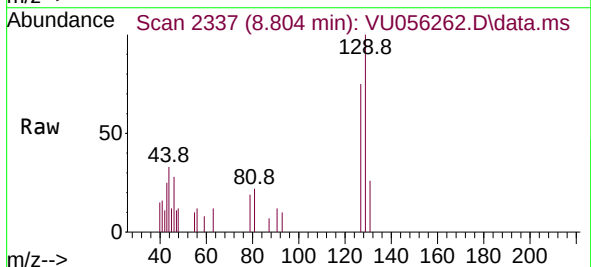
Instrument :
MSVOA_U
ClientSampleId :

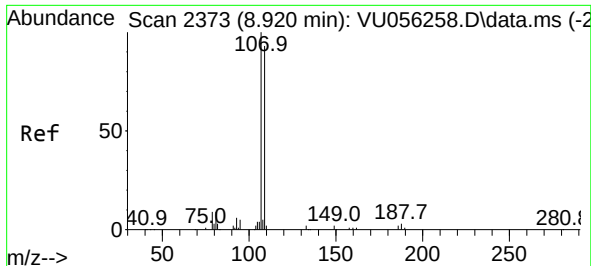
Tgt Ion: 43 Resp: 10474
Ion Ratio Lower Upper
43 100
58 0.0 48.7 73.1#
57 0.0 16.8 25.2#
100 3.2 9.9 14.9#



#49
Dibromochloromethane
Concen: 0.136 ug/L
RT: 8.804 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Tgt Ion: 129 Resp: 2459
Ion Ratio Lower Upper
129 100
127 75.1 52.9 98.3

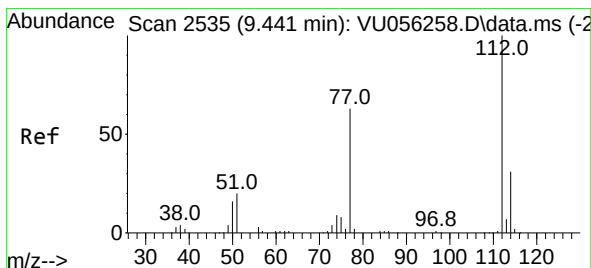
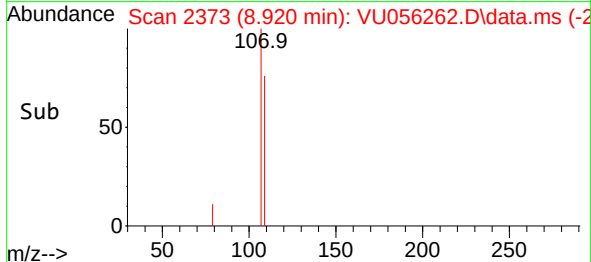
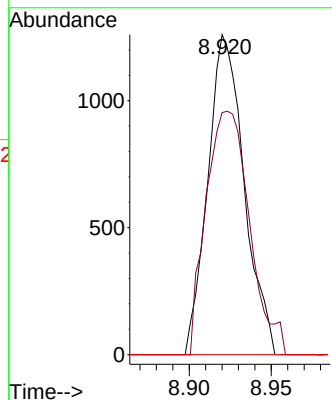
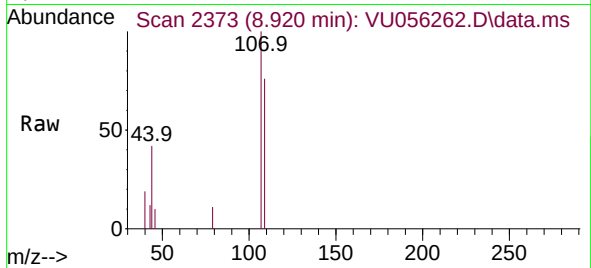




#50
1,2-Dibromoethane
Concen: 0.129 ug/L
RT: 8.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

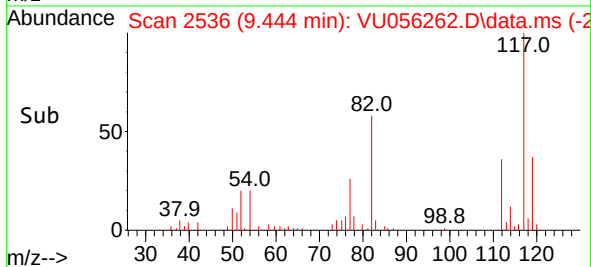
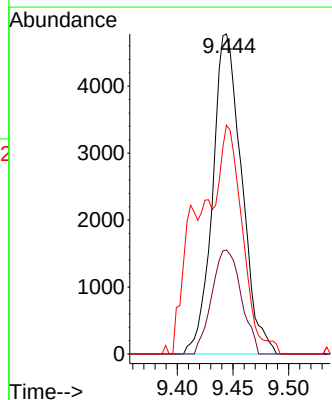
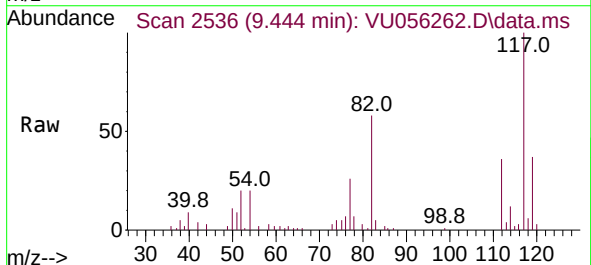
Instrument :
MSVOA_U
ClientSampleId :

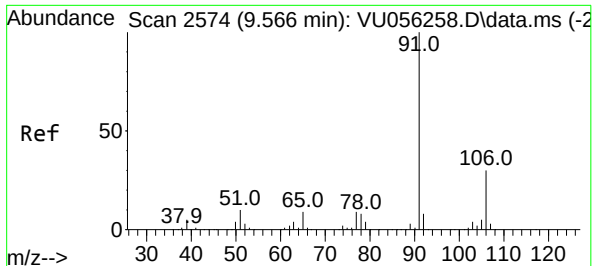
Tgt Ion:107 Resp: 1936
Ion Ratio Lower Upper
107 100
109 75.6 64.2 119.2
188 0.0 2.6 4.0#



#51
Chlorobenzene
Concen: 0.143 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Tgt Ion:112 Resp: 8670
Ion Ratio Lower Upper
112 100
114 32.5 22.5 41.7
77 71.5 51.7 77.5

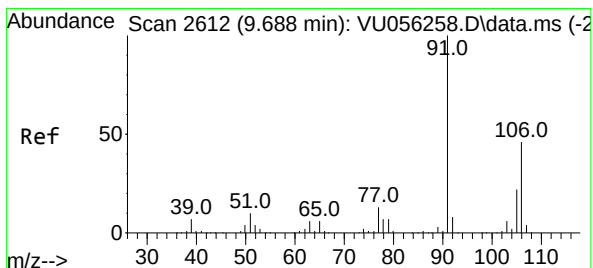
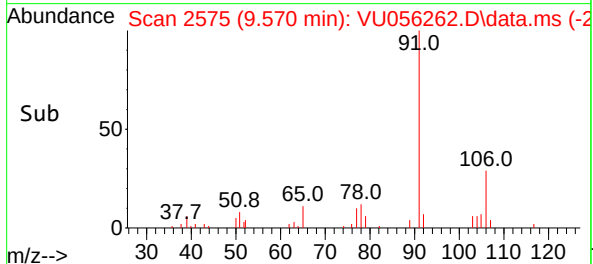
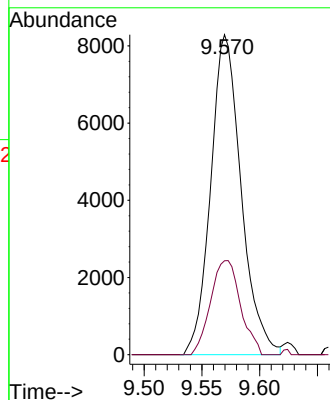
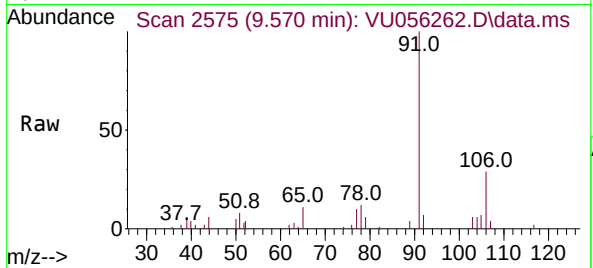




#52
Ethylbenzene
Concen: 0.145 ug/L
RT: 9.570 min Scan# 2151
Delta R.T. 0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

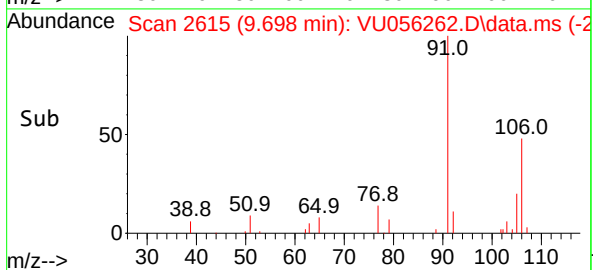
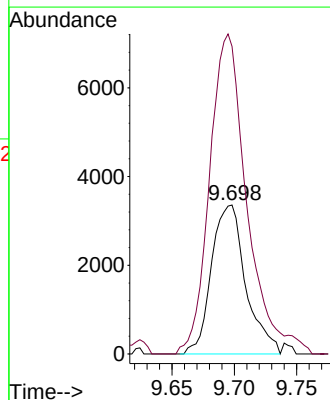
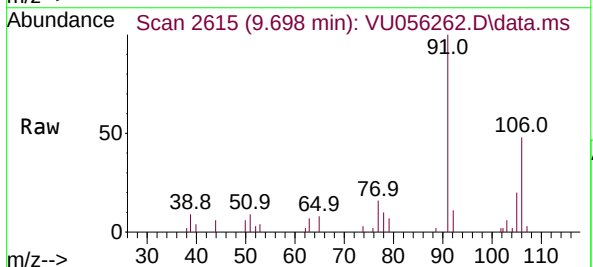
Instrument :
MSVOA_U
ClientSampleId :

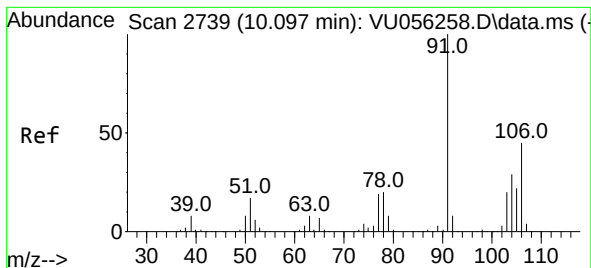
Tgt Ion: 91 Resp: 15193
Ion Ratio Lower Upper
91 100
106 29.4 21.1 39.1



#53
m,p-Xylene
Concen: 0.166 ug/L
RT: 9.698 min Scan# 2615
Delta R.T. 0.010 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Tgt Ion: 106 Resp: 6434
Ion Ratio Lower Upper
106 100
91 206.3 149.6 277.8





#54

o-Xylene

Concen: 0.136 ug/L

RT: 10.100 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Instrument :

MSVOA_U

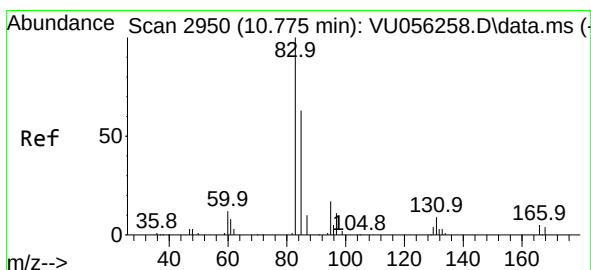
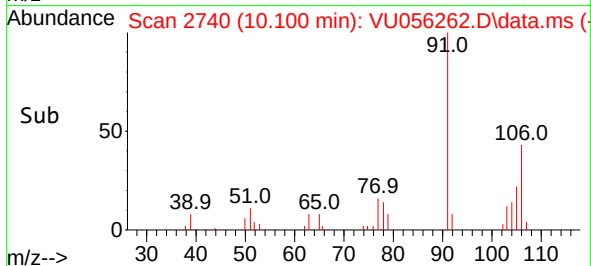
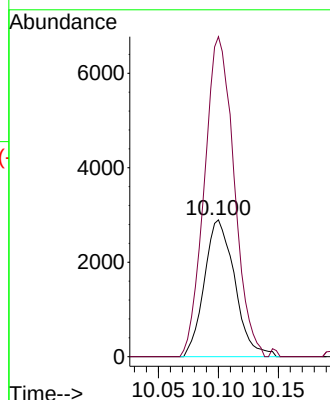
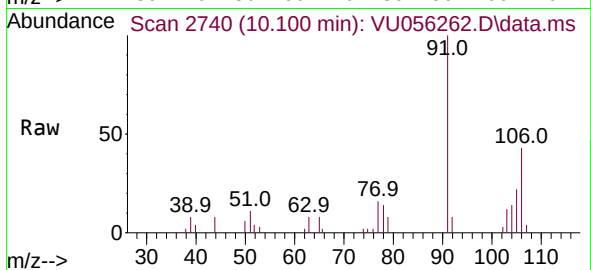
ClientSampleId :

Tgt Ion:106 Resp: 5115

Ion Ratio Lower Upper

106 100

91 233.8 159.3 295.9



#57

1,1,2,2-Tetrachloroethane

Concen: 0.145 ug/L

RT: 10.782 min Scan# 2952

Delta R.T. 0.006 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

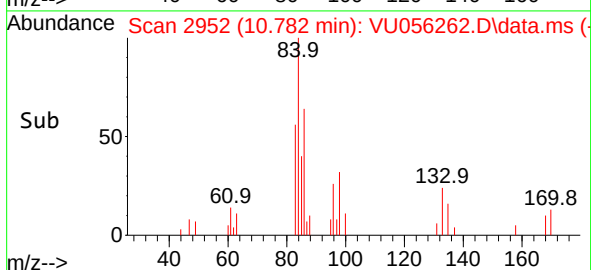
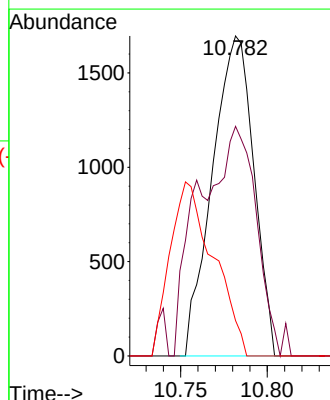
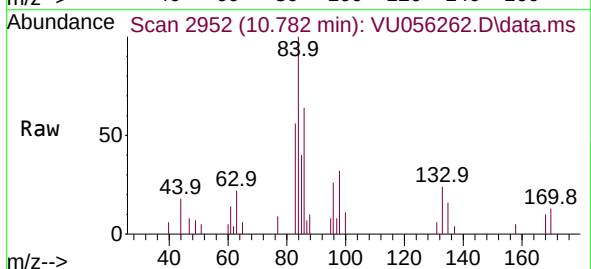
Tgt Ion: 83 Resp: 2820

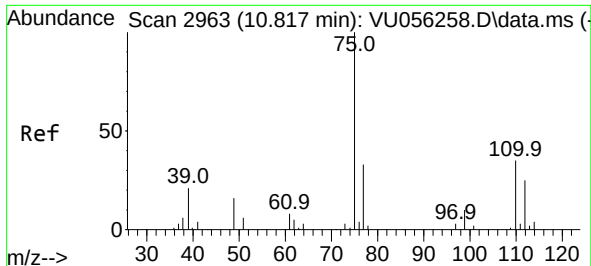
Ion Ratio Lower Upper

83 100

85 71.8 46.3 86.1

131 11.0 6.7 10.1#

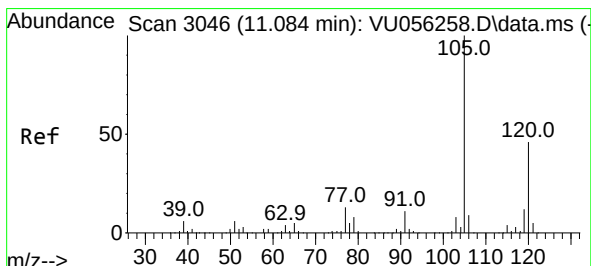
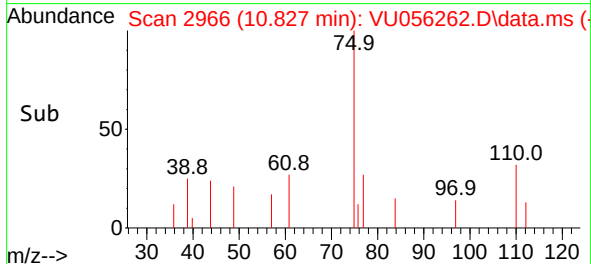
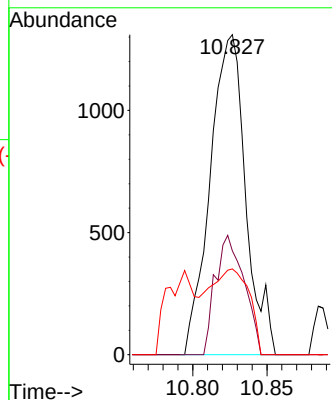
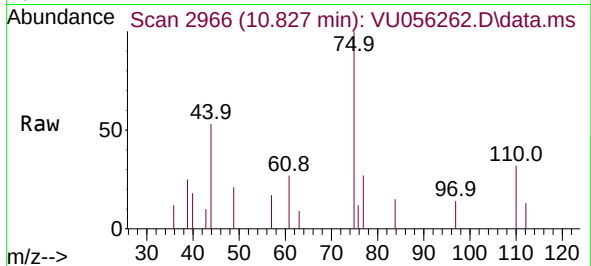




#61
1,2,3-Trichloropropane
Concen: 0.179 ug/L
RT: 10.827 min Scan# 2966
Delta R.T. 0.010 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

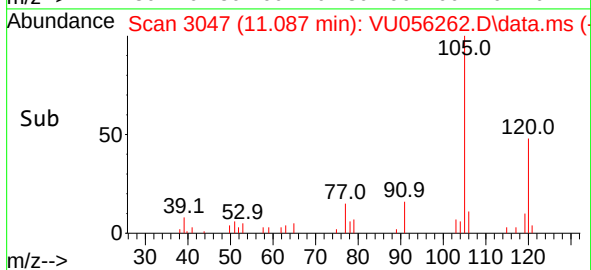
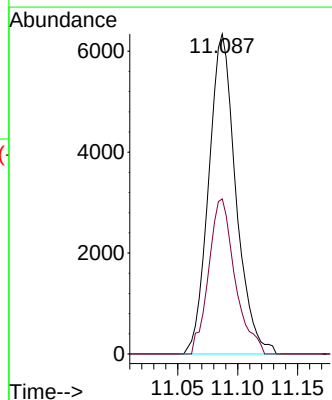
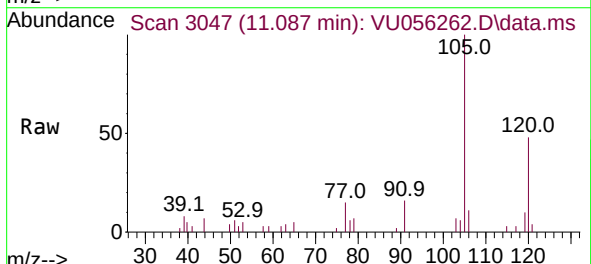
Instrument :
MSVOA_U
ClientSampleId :

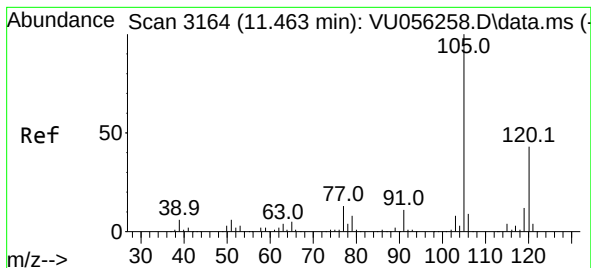
Tgt Ion: 75 Resp: 2185
Ion Ratio Lower Upper
75 100
110 30.0 30.4 45.6#
77 30.3 27.0 40.6



#62
1,3,5-Trimethylbenzene
Concen: 0.133 ug/L
RT: 11.087 min Scan# 3047
Delta R.T. 0.003 min
Lab File: VU056262.D
Acq: 13 Nov 2023 19:42

Tgt Ion: 105 Resp: 9995
Ion Ratio Lower Upper
105 100
120 46.8 37.2 55.8





#63

1,2,4-Trimethylbenzene

Concen: 0.134 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Instrument :

MSVOA_U

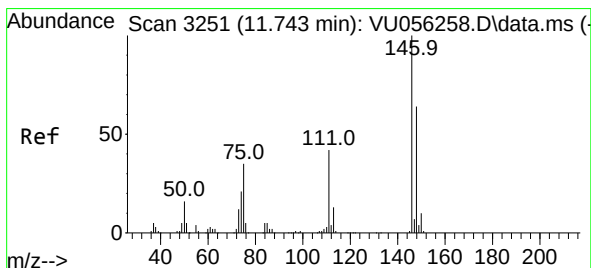
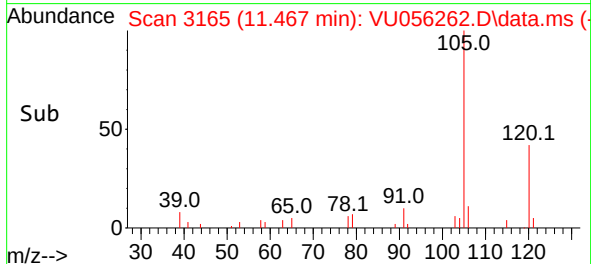
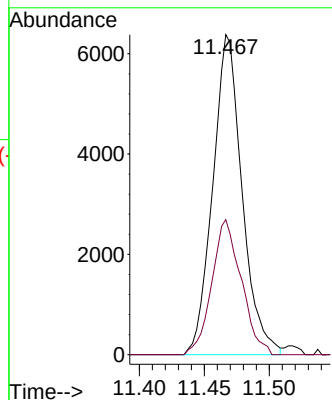
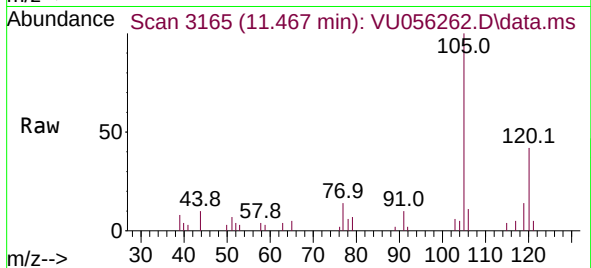
ClientSampleId :

Tgt Ion:105 Resp: 10003

Ion Ratio Lower Upper

105 100

120 42.5 34.0 51.0



#64

1,3-Dichlorobenzene

Concen: 0.157 ug/L

RT: 11.746 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

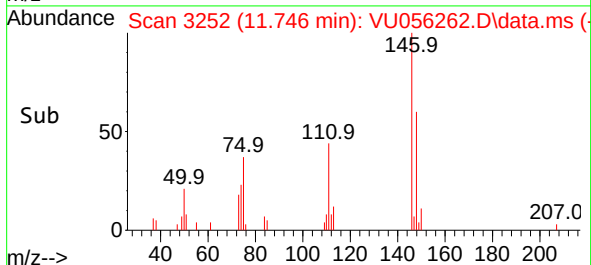
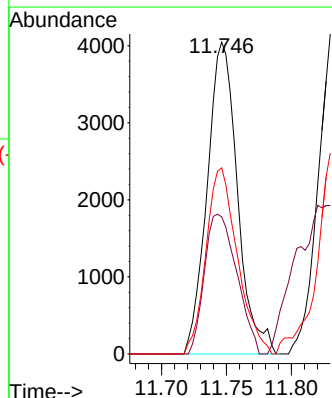
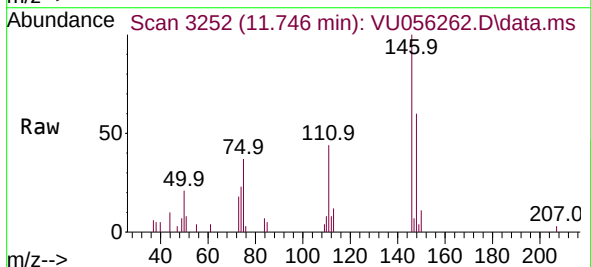
Tgt Ion:146 Resp: 6565

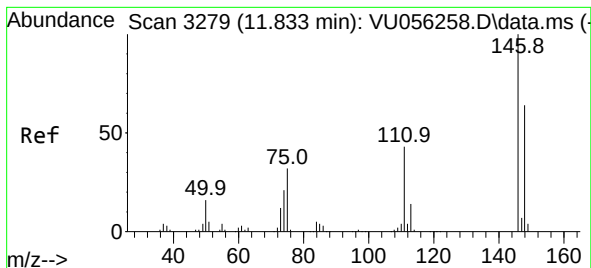
Ion Ratio Lower Upper

146 100

111 43.9 31.1 57.7

148 59.7 45.1 83.9





#65

1,4-Dichlorobenzene

Concen: 0.183 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Instrument :

MSVOA_U

ClientSampleId :

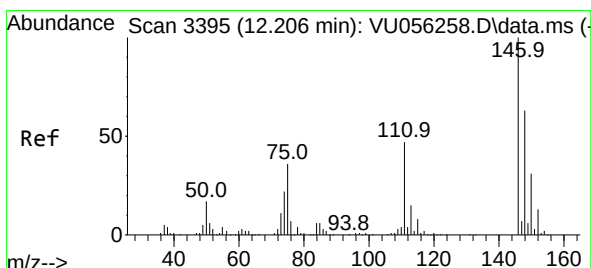
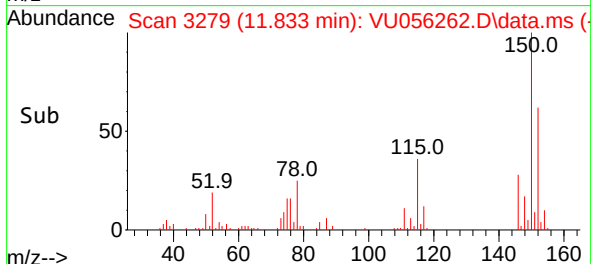
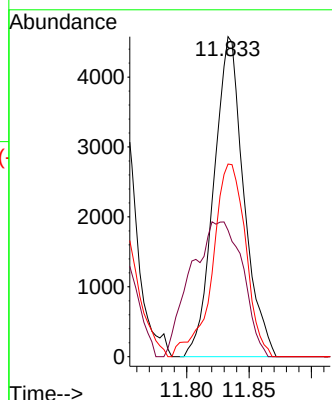
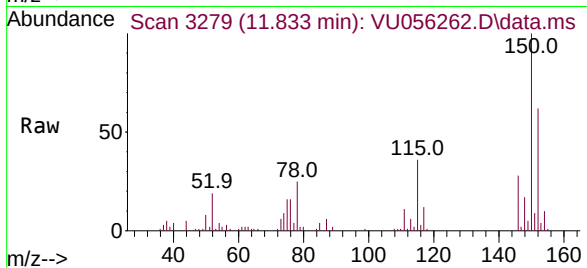
Tgt Ion:146 Resp: 7670

Ion Ratio Lower Upper

146 100

111 39.5 30.5 56.7

148 60.2 44.8 83.2



#67

1,2-Dichlorobenzene

Concen: 0.164 ug/L

RT: 12.209 min Scan# 3396

Delta R.T. 0.003 min

Lab File: VU056262.D

Acq: 13 Nov 2023 19:42

Tgt Ion:146 Resp: 6292

Ion Ratio Lower Upper

146 100

111 51.5 38.3 57.5

148 70.3 52.2 78.4

