

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111323\
 Data File : VU056264.D
 Acq On : 13 Nov 2023 20:30
 Operator : MD/SY
 Sample : 05371-05DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 21:44:44 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	331255	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	330283	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	149563	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	70692	2.853	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.000%
7) Chloroethane-d5	1.907	69	54131	2.849	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	57.000%#
11) 1,1-Dichloroethene-d2	2.560	65	35135	3.213	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.200%
20) 2-Butanone-d5	4.631	46	193663	39.199	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.400%
24) Chloroform-d	5.055	84	168469	3.515	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.400%
26) 1,2-Dichloroethane-d4	5.695	65	83855	3.787	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.800%
32) Benzene-d6	5.721	84	329691	3.350	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	67.000%#
36) 1,2-Dichloropropane-d6	6.685	67	106373	3.587	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	71.800%
41) Toluene-d8	7.894	98	291111	3.350	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.000%#
43) trans-1,3-Dichloroprop...	8.177	79	39836	3.502	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.000%
46) 2-Hexanone-d5	8.643	63	164700	36.846	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	73.700%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	78274	3.694	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	73.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	101738	3.682	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	73.600%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	3518	0.131	ug/L	89
13) Acetone	2.640	43	43080	10.238	ug/L	95
15) Methyl Acetate	2.949	43	1423	0.190	ug/L #	49
16) Methylene chloride	3.039	84	17290	0.644	ug/L	95
17) Methyl tert-butyl Ether	3.364	73	7104	0.144	ug/L #	88
22) cis-1,2-Dichloroethene	4.663	96	3798	0.161	ug/L	93
34) Trichloroethene	6.541	95	18749	0.730	ug/L	95
37) 1,2-Dichloropropane	6.791	63	3232	0.132	ug/L #	88
38) Bromodichloromethane	7.103	83	4971	0.157	ug/L	98
39) cis-1,3-Dichloropropene	7.608	75	4627	0.128	ug/L	96
45) 1,1,2-Trichloroethane	8.399	97	2087	0.128	ug/L	83
47) Tetrachloroethene	8.547	164	109893	6.347	ug/L	96
48) 2-Hexanone	8.701	43	13047	1.375	ug/L #	92
49) Dibromochloromethane	8.547	129	114003	6.125	ug/L #	12
50) 1,2-Dibromoethane	8.923	107	2161	0.140	ug/L #	84
51) Chlorobenzene	9.447	112	8772	0.140	ug/L	90
52) Ethylbenzene	9.569	91	14282	0.132	ug/L	100
53) m,p-Xylene	9.695	106	6374	0.160	ug/L	90
54) o-Xylene	10.100	106	4818	0.125	ug/L	93

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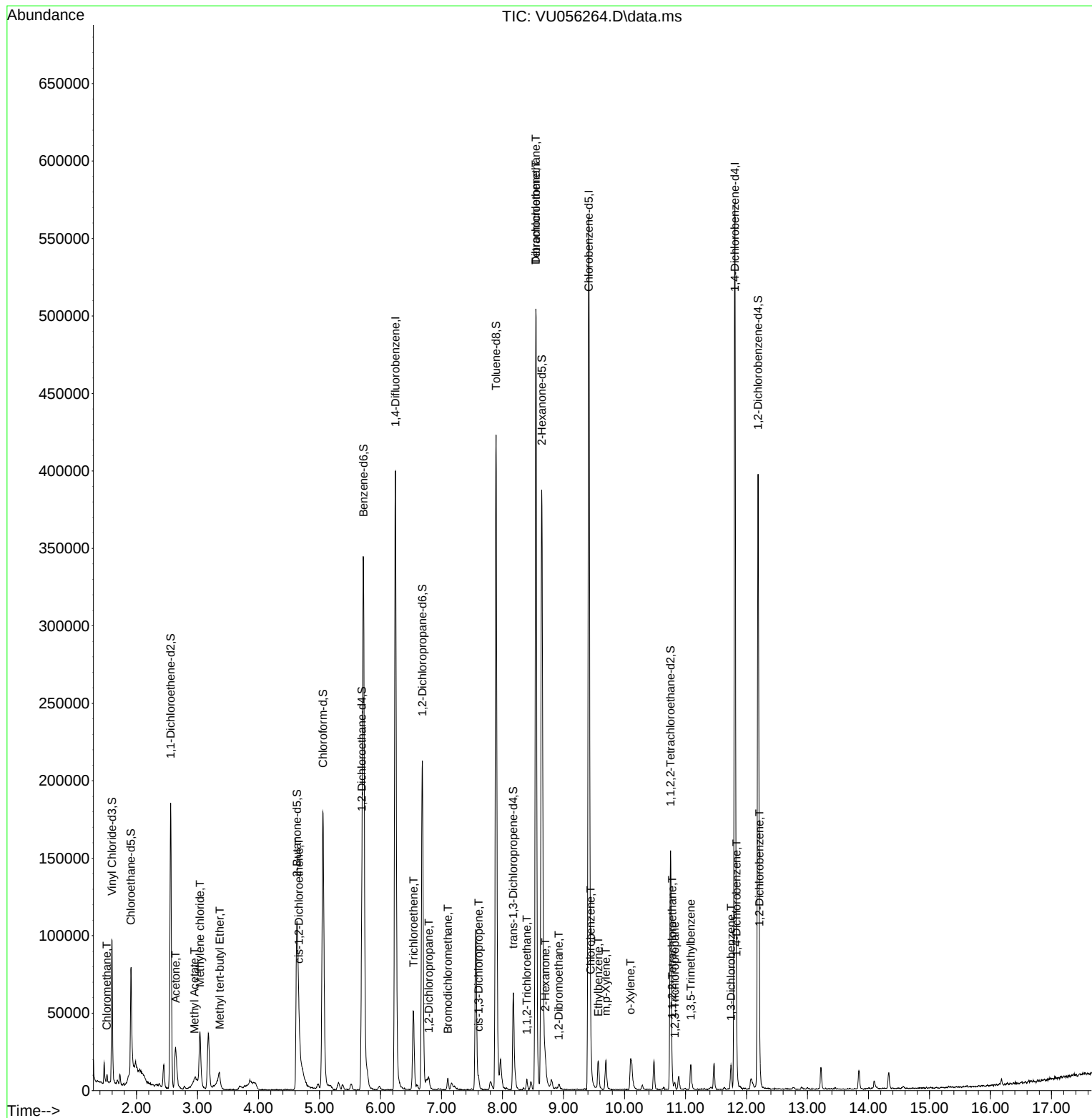
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.782	83	2837	0.142	ug/L #	90
61) 1,2,3-Trichloropropane	10.823	75	2006	0.156	ug/L #	70
62) 1,3,5-Trimethylbenzene	11.087	105	9764	0.123	ug/L	95
64) 1,3-Dichlorobenzene	11.746	146	6453	0.147	ug/L	91
65) 1,4-Dichlorobenzene	11.836	146	6840	0.155	ug/L	95
67) 1,2-Dichlorobenzene	12.212	146	6474	0.161	ug/L	92

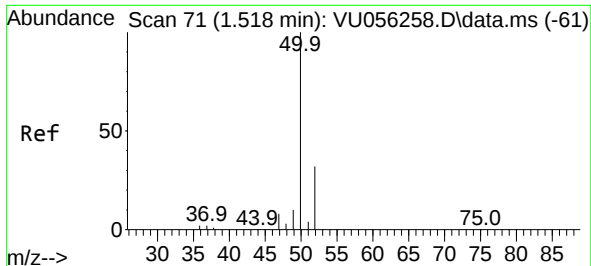
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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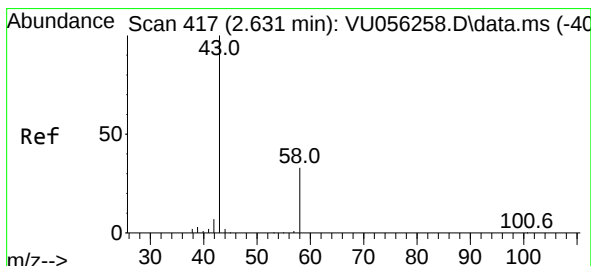
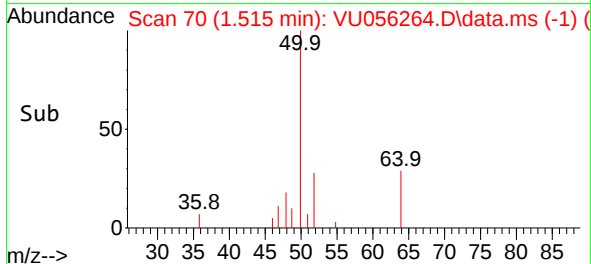
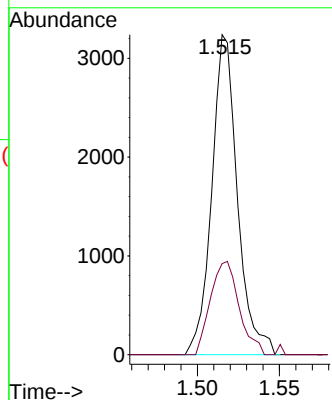
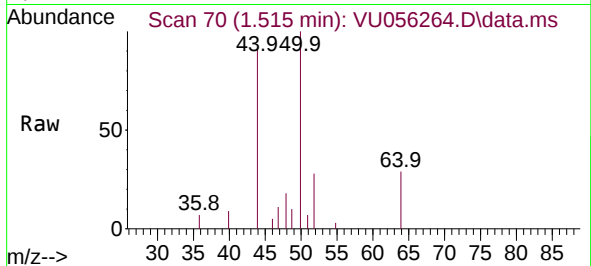




#3
Chloromethane
Concen: 0.131 ug/L
RT: 1.515 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

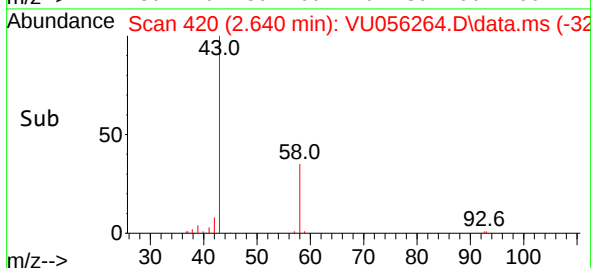
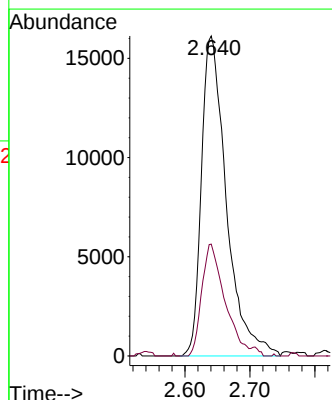
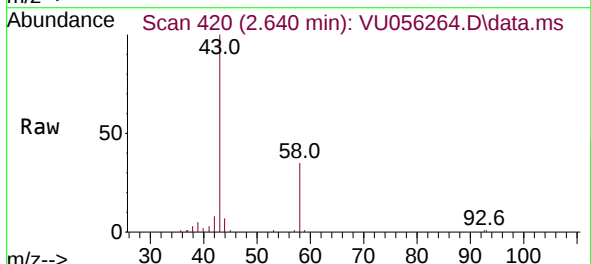
Instrument :
MSVOA_U
ClientSampleId :

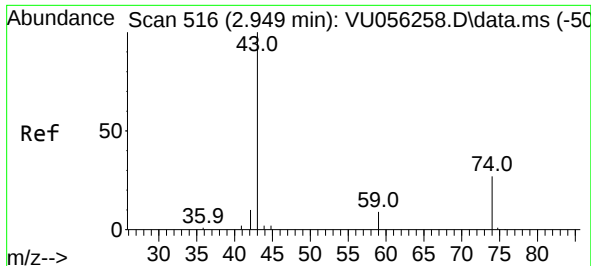
Tgt Ion: 50 Resp: 3518
Ion Ratio Lower Upper
50 100
52 28.5 24.3 45.1



#13
Acetone
Concen: 10.238 ug/L
RT: 2.640 min Scan# 420
Delta R.T. 0.010 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion: 43 Resp: 43080
Ion Ratio Lower Upper
43 100
58 32.4 0.0 70.0

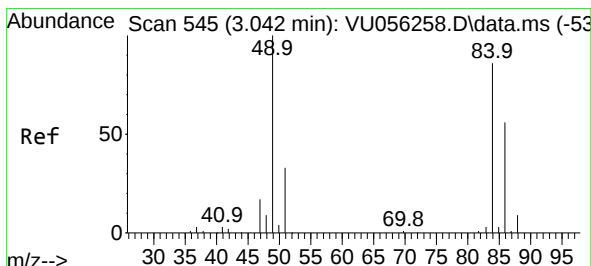
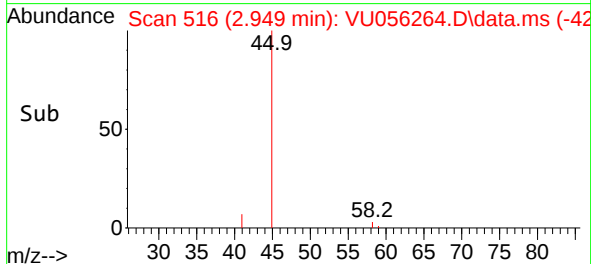
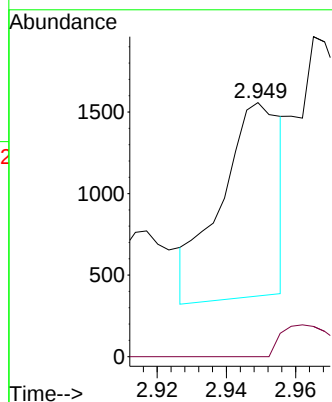
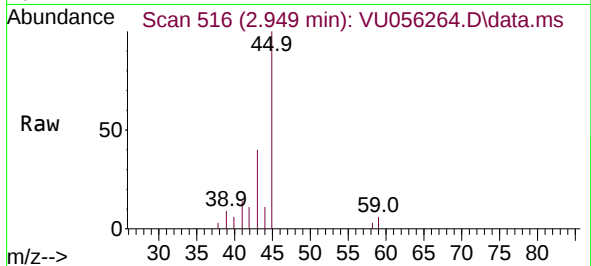




#15
Methyl Acetate
Concen: 0.190 ug/L
RT: 2.949 min Scan# 516
Delta R.T. -0.000 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

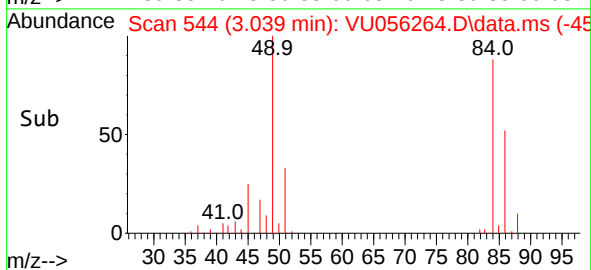
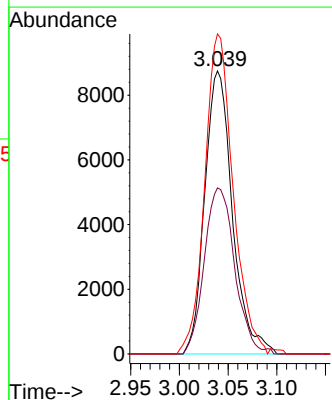
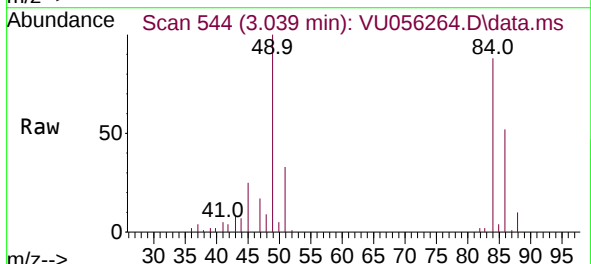
Instrument :
MSVOA_U
ClientSampleId :

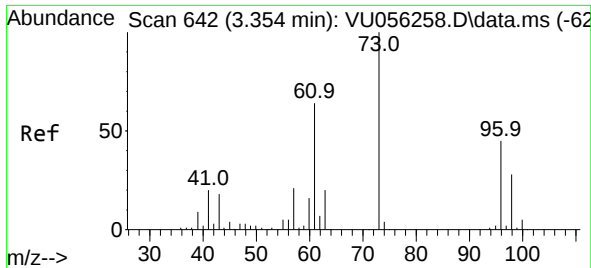
Tgt Ion: 43 Resp: 1423
Ion Ratio Lower Upper
43 100
74 0.0 20.6 31.0#



#16
Methylene chloride
Concen: 0.644 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion: 84 Resp: 17290
Ion Ratio Lower Upper
84 100
86 58.7 44.7 83.1
49 113.0 81.8 152.0

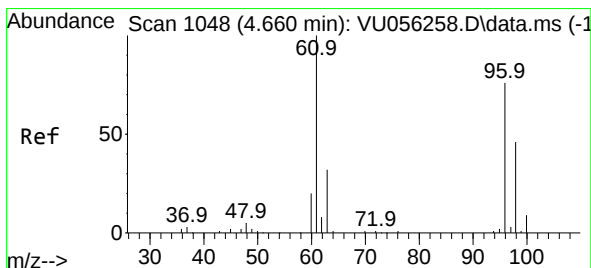
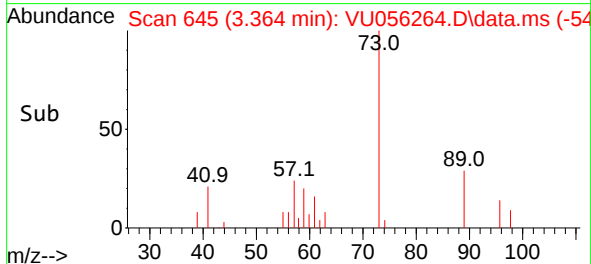
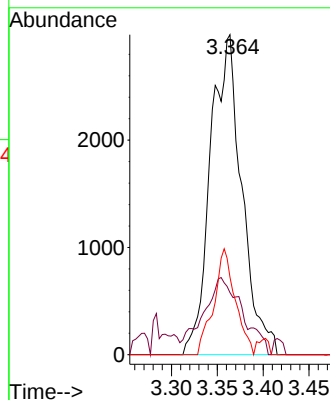
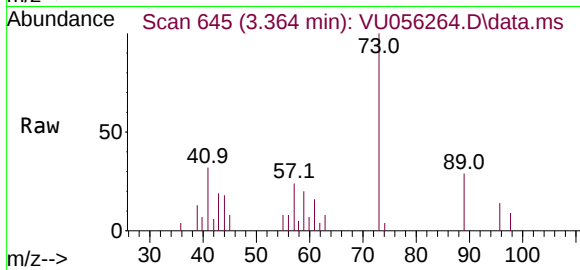




#17
Methyl tert-butyl Ether
Concen: 0.144 ug/L
RT: 3.364 min Scan# 642
Delta R.T. 0.010 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

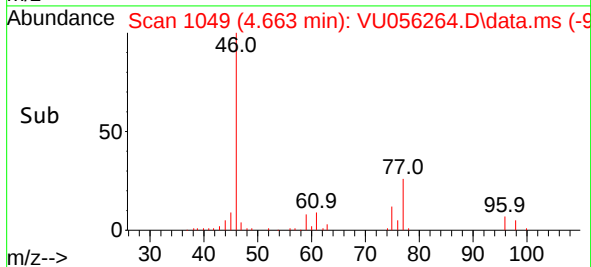
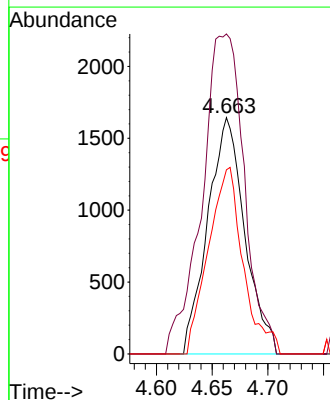
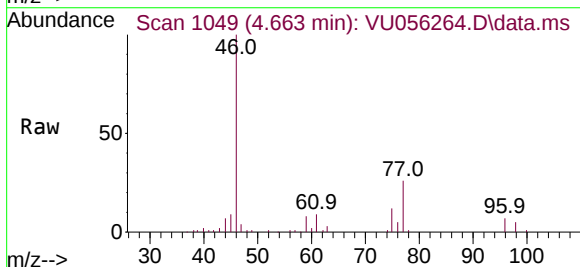
Instrument :
MSVOA_U
ClientSampleId :

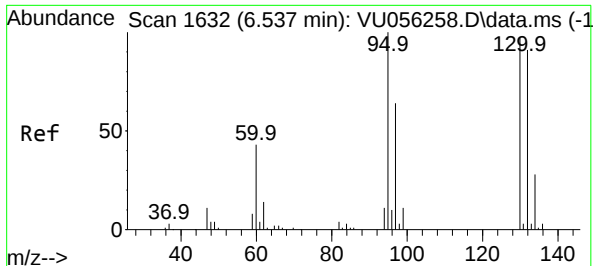
Tgt Ion: 73 Resp: 7104
Ion Ratio Lower Upper
73 100
43 30.5 15.1 22.7#
57 22.5 17.8 26.8



#22
cis-1,2-Dichloroethene
Concen: 0.161 ug/L
RT: 4.663 min Scan# 1049
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion: 96 Resp: 3798
Ion Ratio Lower Upper
96 100
61 135.4 93.2 173.2
98 77.9 44.8 83.2





#34

Trichloroethene

Concen: 0.730 ug/L

RT: 6.541 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU056264.D

Acq: 13 Nov 2023 20:30

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 18749

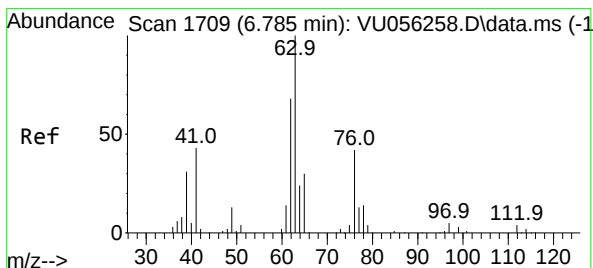
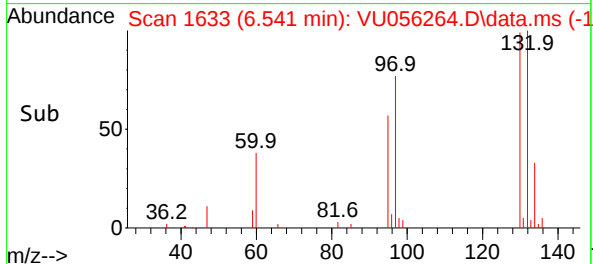
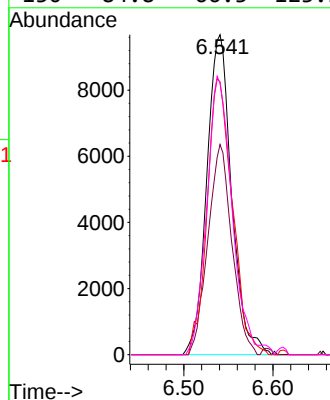
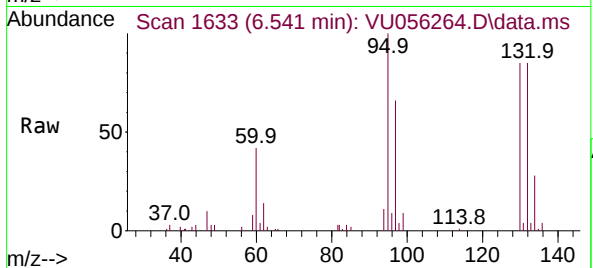
Ion Ratio Lower Upper

95 100

97 65.7 46.5 86.3

132 85.2 62.0 115.2

130 84.8 66.3 123.1



#37

1,2-Dichloropropane

Concen: 0.132 ug/L

RT: 6.791 min Scan# 1711

Delta R.T. 0.006 min

Lab File: VU056264.D

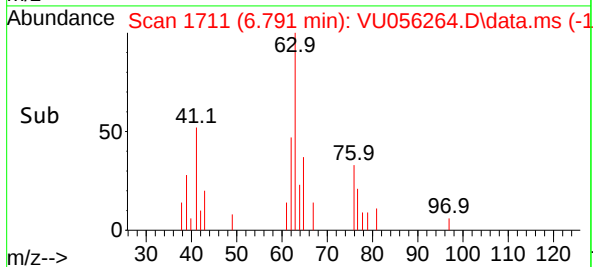
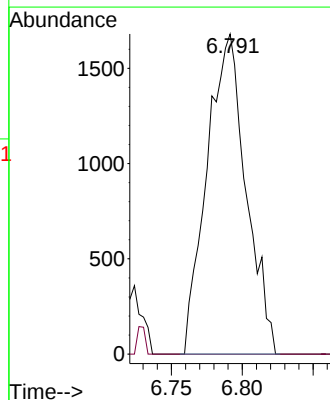
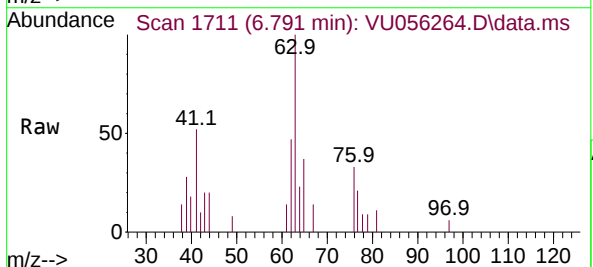
Acq: 13 Nov 2023 20:30

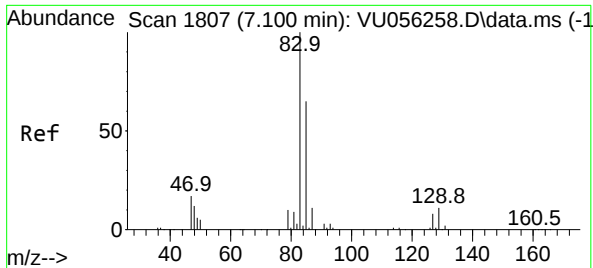
Tgt Ion: 63 Resp: 3232

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#





#38

Bromodichloromethane

Concen: 0.157 ug/L

RT: 7.103 min Scan# 1808

Delta R.T. 0.003 min

Lab File: VU056264.D

Acq: 13 Nov 2023 20:30

Instrument :

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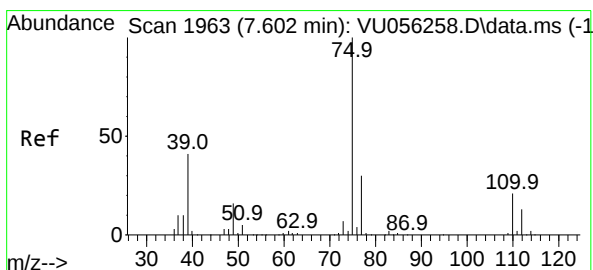
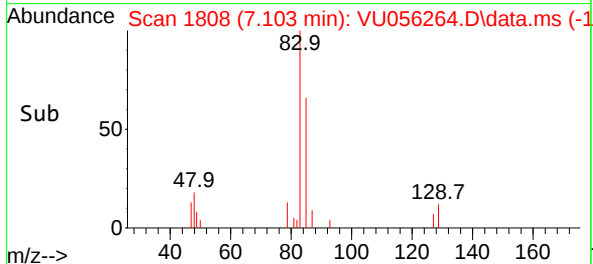
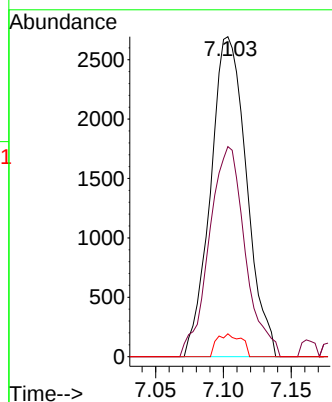
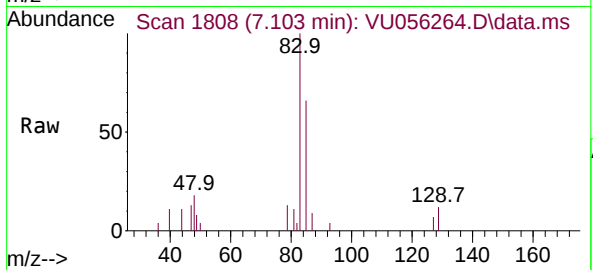
Tgt Ion: 83 Resp: 4971

Ion Ratio Lower Upper

83 100

85 65.6 44.9 83.5

127 7.2 6.9 10.3



#39

cis-1,3-Dichloropropene

Concen: 0.128 ug/L

RT: 7.608 min Scan# 1965

Delta R.T. 0.006 min

Lab File: VU056264.D

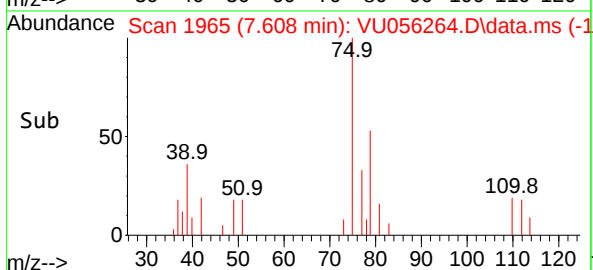
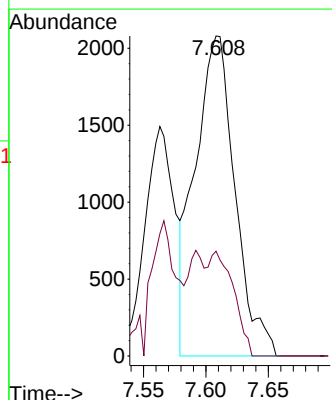
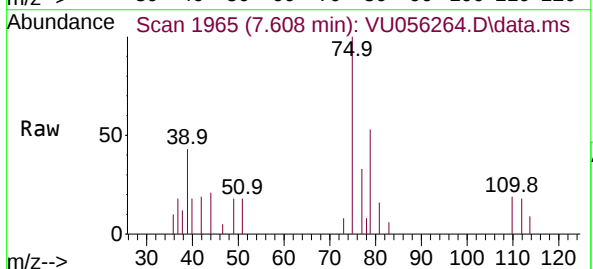
Acq: 13 Nov 2023 20:30

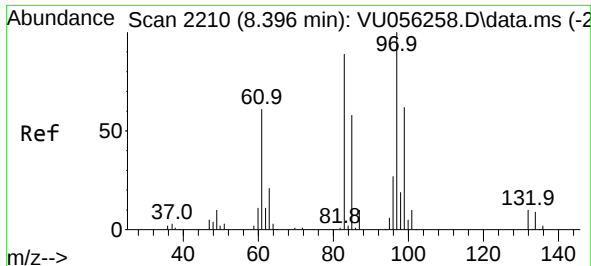
Tgt Ion: 75 Resp: 4627

Ion Ratio Lower Upper

75 100

77 32.7 21.5 39.9

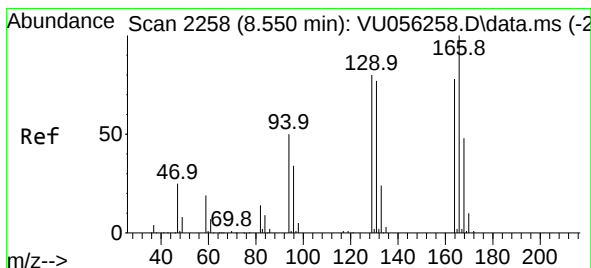
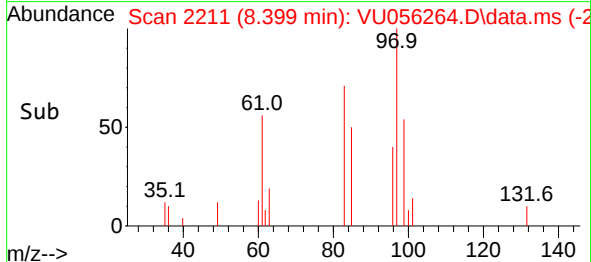
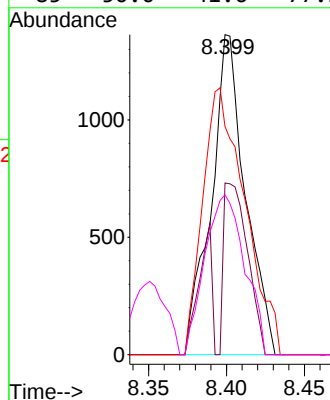
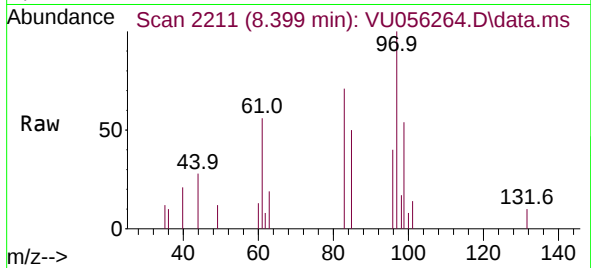




#45
1,1,2-Trichloroethane
Concen: 0.128 ug/L
RT: 8.399 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

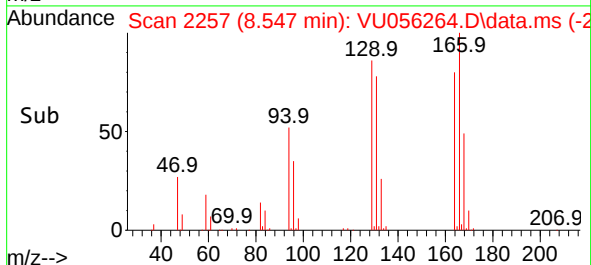
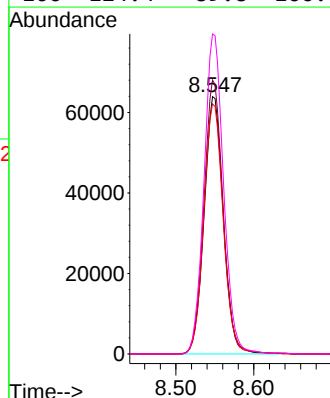
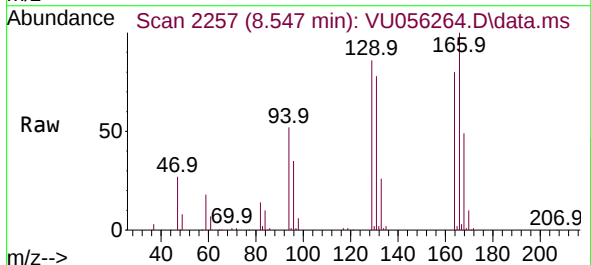
Instrument :
MSVOA_U
ClientSampleId :

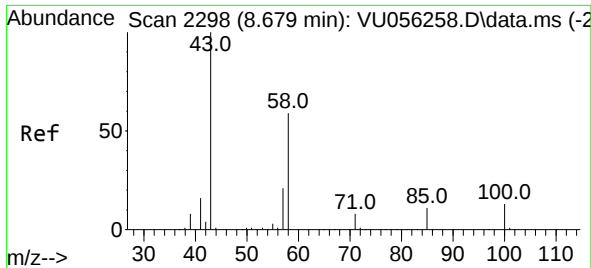
Tgt Ion: 97	Resp:	2087
Ion	Ratio	Lower Upper
97	100	
99	53.6	44.3 82.3
83	71.3	65.4 121.4
85	50.0	41.6 77.3



#47
Tetrachloroethene
Concen: 6.347 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion: 164	Resp:	109893
Ion	Ratio	Lower Upper
164	100	
129	106.5	71.0 131.9
131	97.2	70.3 130.7
166	124.4	89.8 166.8

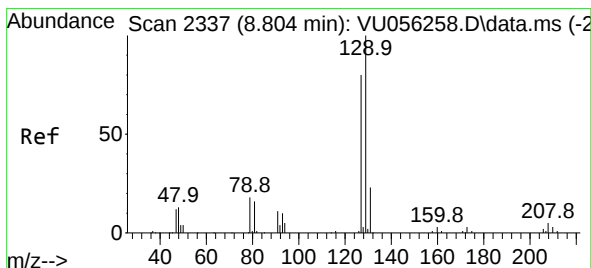
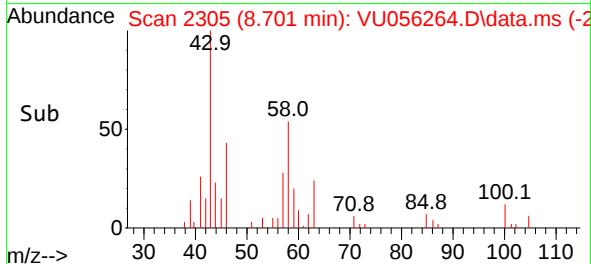
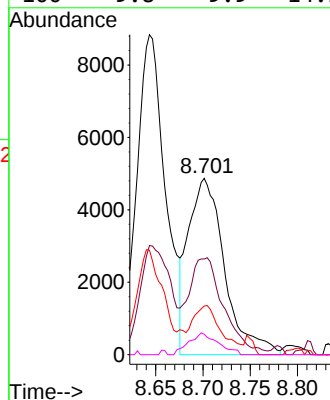
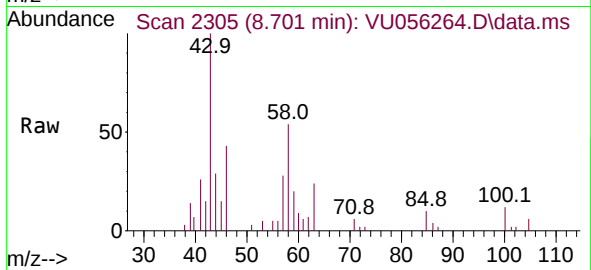




#48
2-Hexanone
Concen: 1.375 ug/L
RT: 8.701 min Scan# 21
Delta R.T. 0.022 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

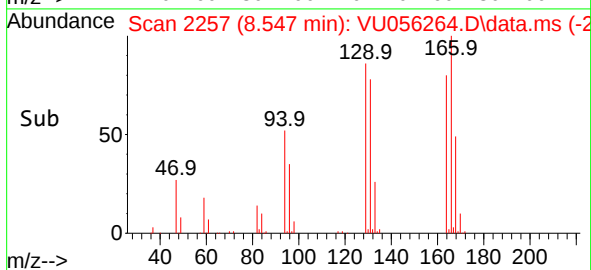
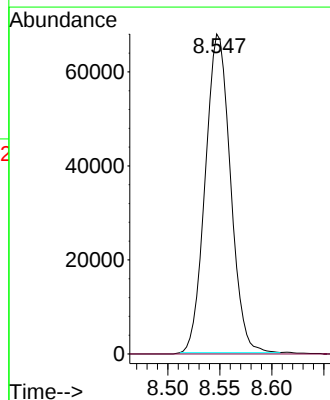
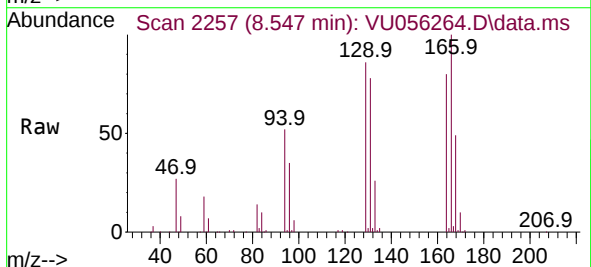
Instrument :
MSVOA_U
ClientSampleId :

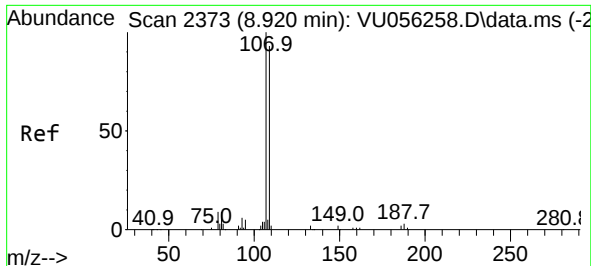
Tgt Ion: 43 Resp: 13047
Ion Ratio Lower Upper
43 100
58 53.0 48.7 73.1
57 21.7 16.8 25.2
100 9.8 9.9 14.9#



#49
Dibromochloromethane
Concen: 6.125 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion:129 Resp: 114003
Ion Ratio Lower Upper
129 100
127 0.0 52.9 98.3#

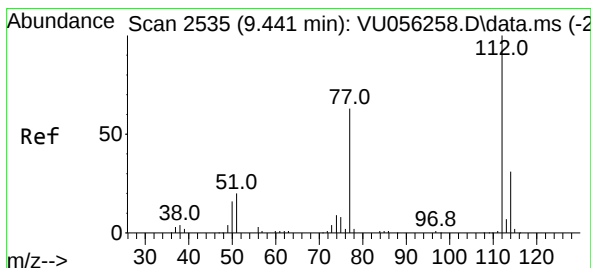
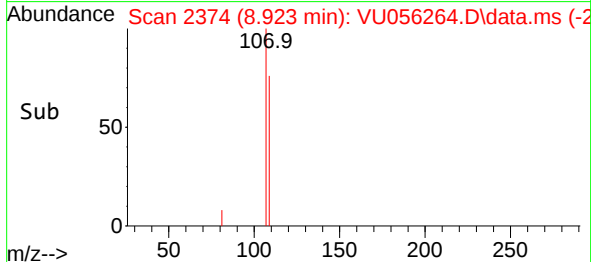
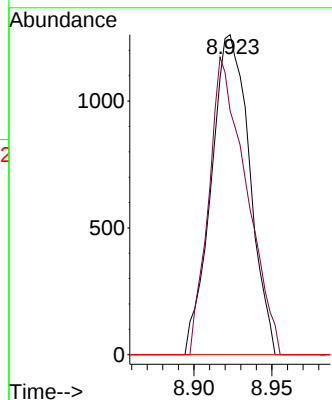
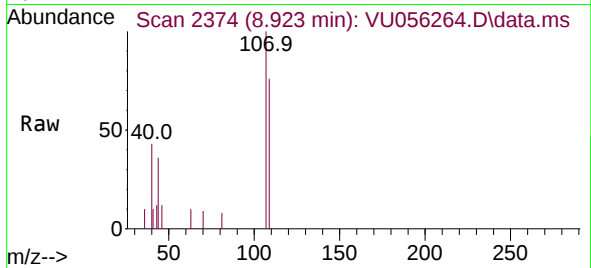




#50
1,2-Dibromoethane
Concen: 0.140 ug/L
RT: 8.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

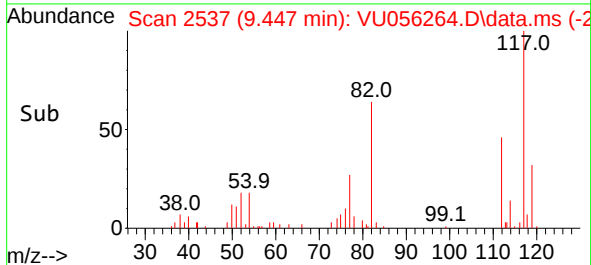
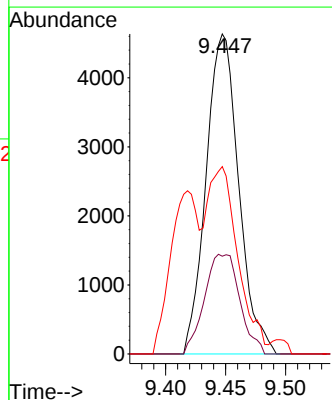
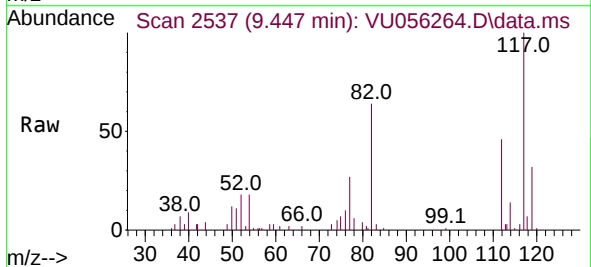
Instrument :
MSVOA_U
ClientSampleId :

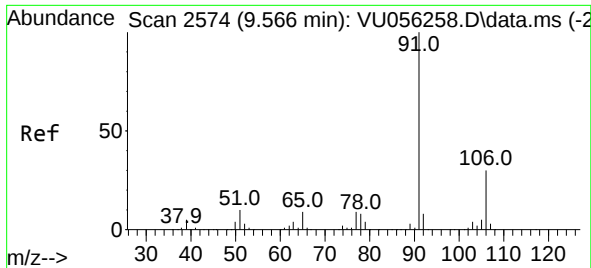
Tgt Ion:107 Resp: 2161
Ion Ratio Lower Upper
107 100
109 76.1 64.2 119.2
188 0.0 2.6 4.0#



#51
Chlorobenzene
Concen: 0.140 ug/L
RT: 9.447 min Scan# 2537
Delta R.T. 0.006 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion:112 Resp: 8772
Ion Ratio Lower Upper
112 100
114 28.8 22.5 41.7
77 55.1 51.7 77.5

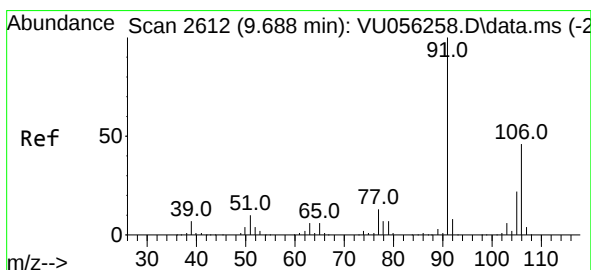
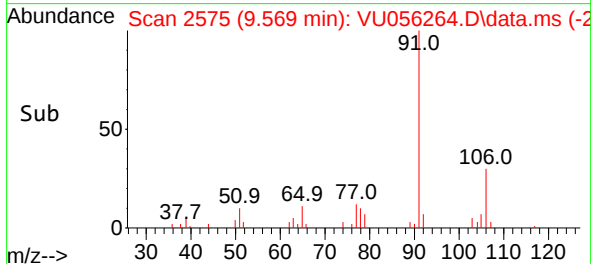
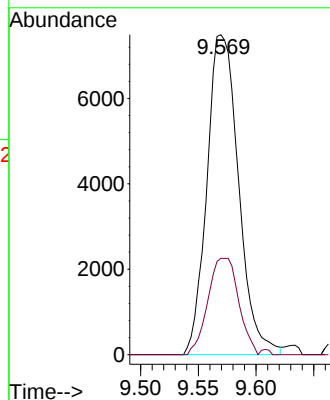
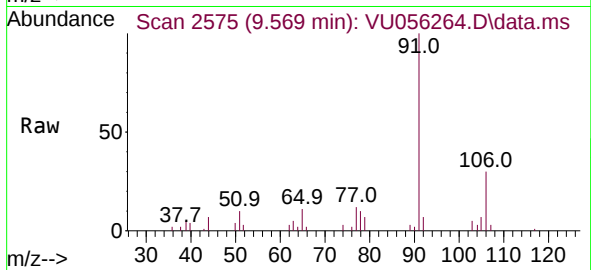




#52
Ethylbenzene
Concen: 0.132 ug/L
RT: 9.569 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

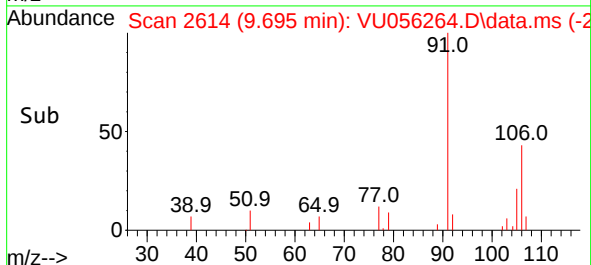
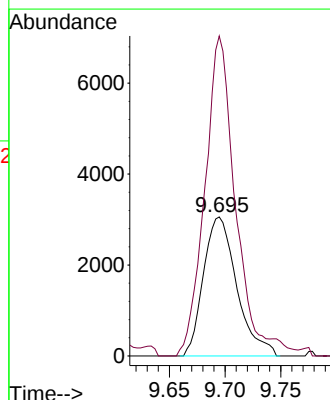
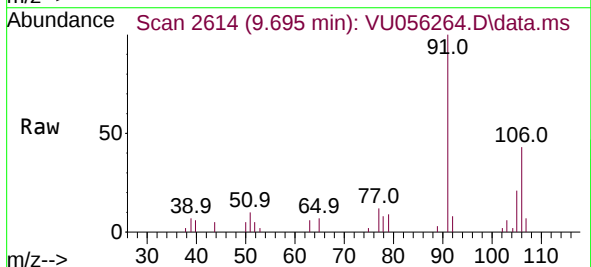
Instrument :
MSVOA_U
ClientSampleId :

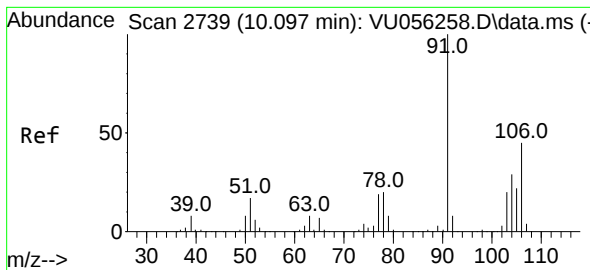
Tgt Ion: 91 Resp: 14282
Ion Ratio Lower Upper
91 100
106 30.1 21.1 39.1



#53
m,p-Xylene
Concen: 0.160 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.006 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion:106 Resp: 6374
Ion Ratio Lower Upper
106 100
91 230.2 149.6 277.8





#54

o-Xylene

Concen: 0.125 ug/L

RT: 10.100 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU056264.D

Acq: 13 Nov 2023 20:30

Instrument :

MSVOA_U

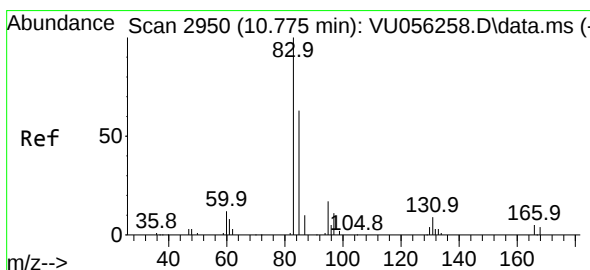
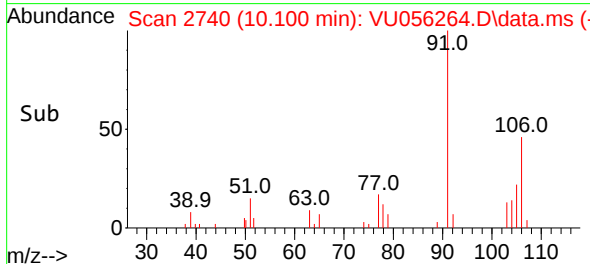
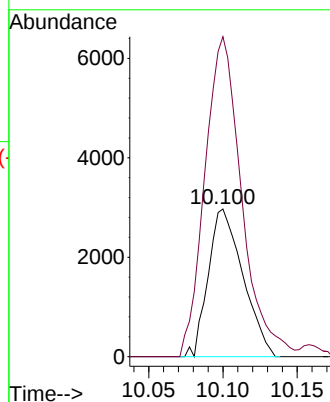
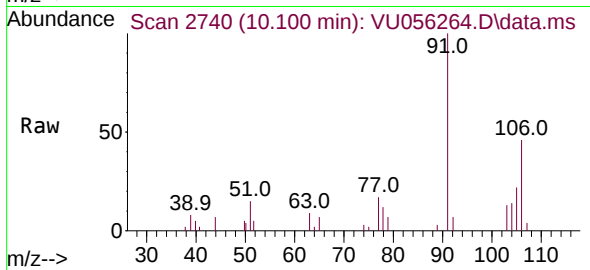
ClientSampleId :

Tgt Ion:106 Resp: 4818

Ion Ratio Lower Upper

106 100

91 216.8 159.3 295.9



#57

1,1,2,2-Tetrachloroethane

Concen: 0.142 ug/L

RT: 10.782 min Scan# 2952

Delta R.T. 0.006 min

Lab File: VU056264.D

Acq: 13 Nov 2023 20:30

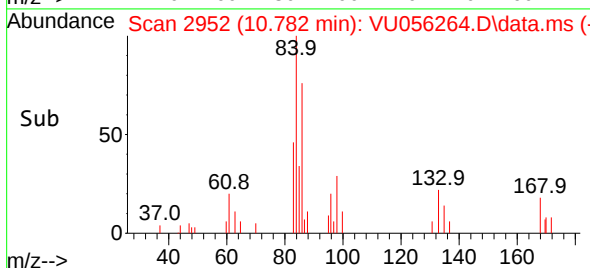
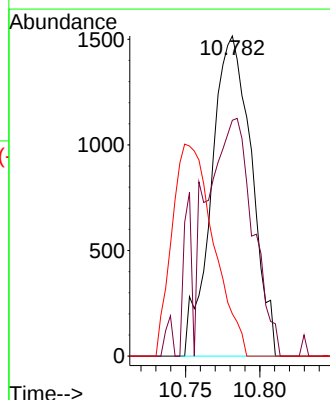
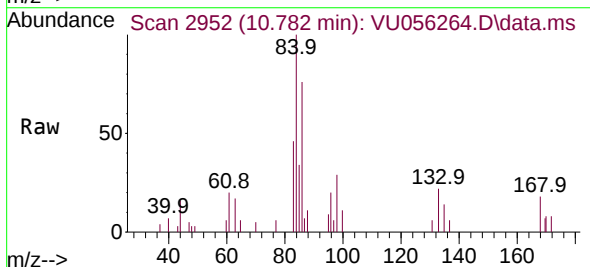
Tgt Ion: 83 Resp: 2837

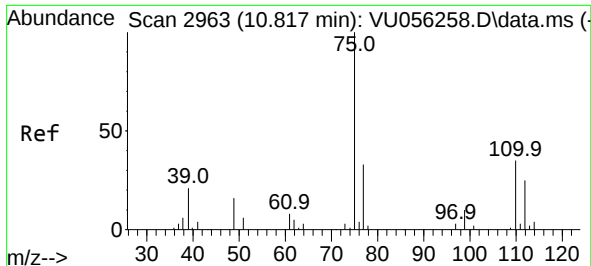
Ion Ratio Lower Upper

83 100

85 73.7 46.3 86.1

131 13.2 6.7 10.1#

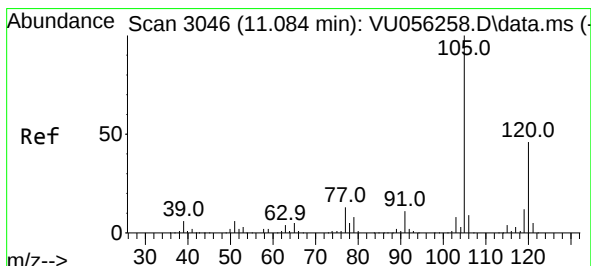
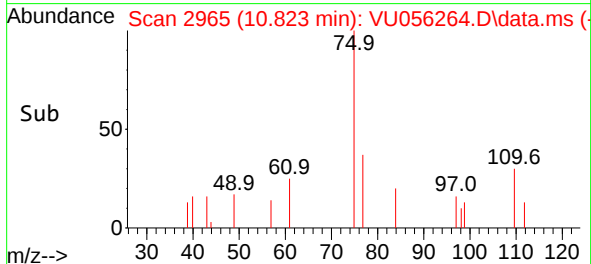
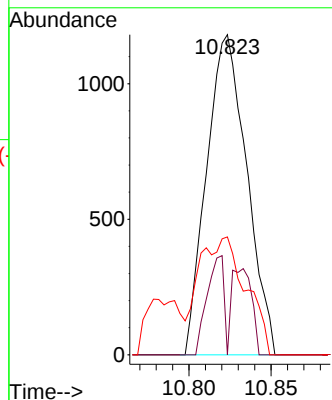
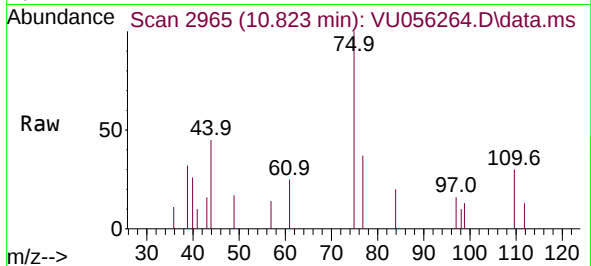




#61
1,2,3-Trichloropropane
Concen: 0.156 ug/L
RT: 10.823 min Scan# 2965
Delta R.T. 0.006 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

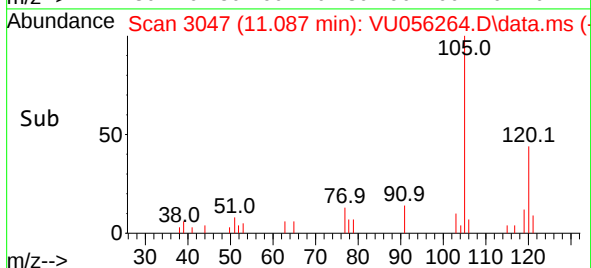
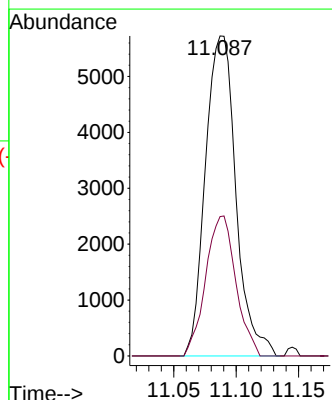
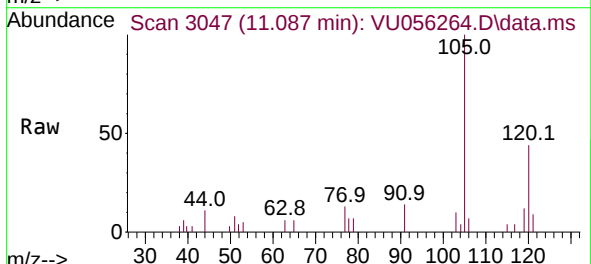
Instrument :
MSVOA_U
ClientSampleId :

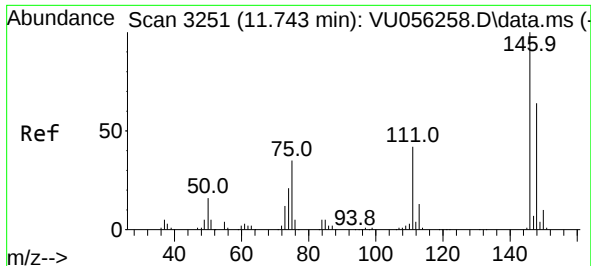
Tgt Ion: 75 Resp: 2006
Ion Ratio Lower Upper
75 100
110 12.9 30.4 45.6#
77 43.1 27.0 40.6#



#62
1,3,5-Trimethylbenzene
Concen: 0.123 ug/L
RT: 11.087 min Scan# 3047
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion: 105 Resp: 9764
Ion Ratio Lower Upper
105 100
120 43.1 37.2 55.8

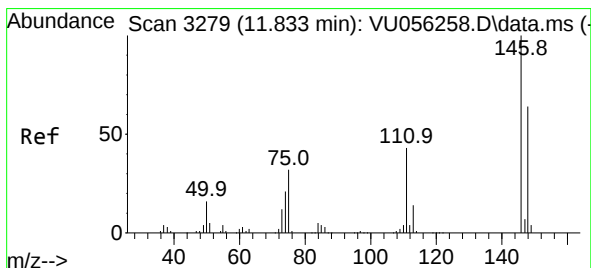
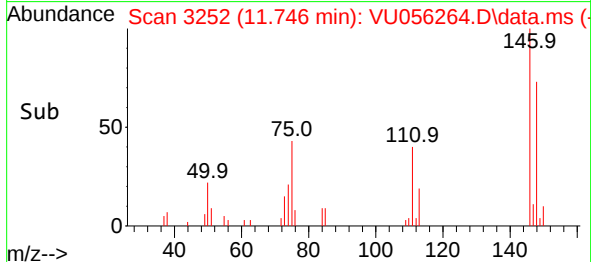
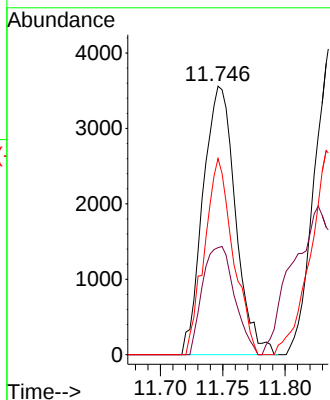
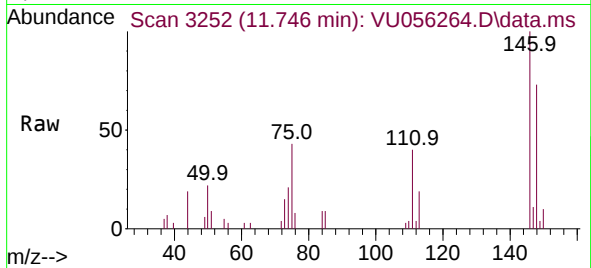




#64
1,3-Dichlorobenzene
Concen: 0.147 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

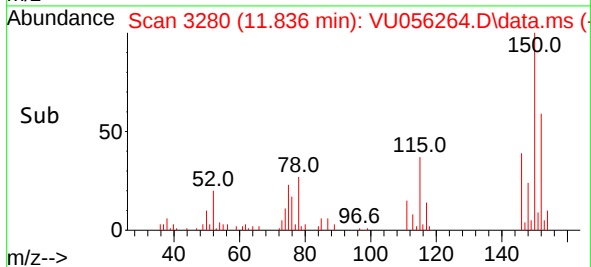
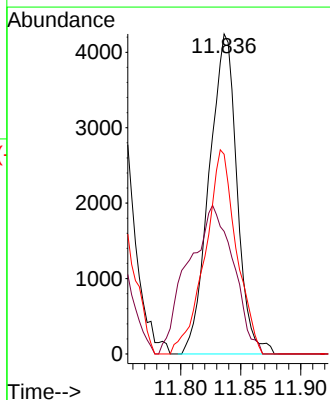
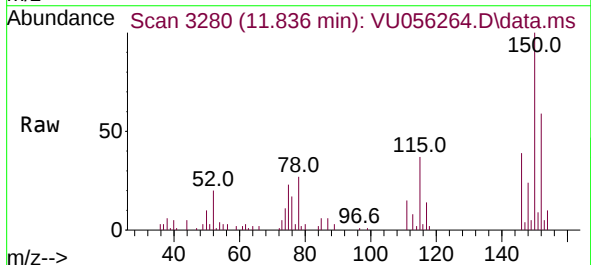
Instrument :
MSVOA_U
ClientSampleId :

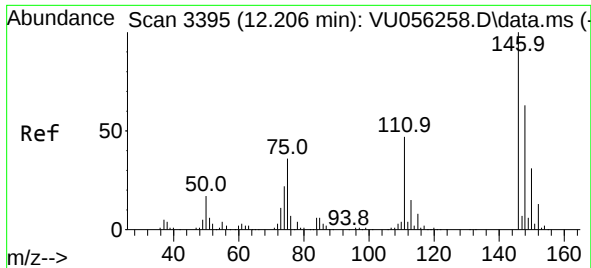
Tgt Ion:146 Resp: 6453
Ion Ratio Lower Upper
146 100
111 39.9 31.1 57.7
148 73.1 45.1 83.9



#65
1,4-Dichlorobenzene
Concen: 0.155 ug/L
RT: 11.836 min Scan# 3280
Delta R.T. 0.003 min
Lab File: VU056264.D
Acq: 13 Nov 2023 20:30

Tgt Ion:146 Resp: 6840
Ion Ratio Lower Upper
146 100
111 38.3 30.5 56.7
148 62.4 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 0.161 ug/L

RT: 12.212 min Scan# 31

Delta R.T. 0.006 min

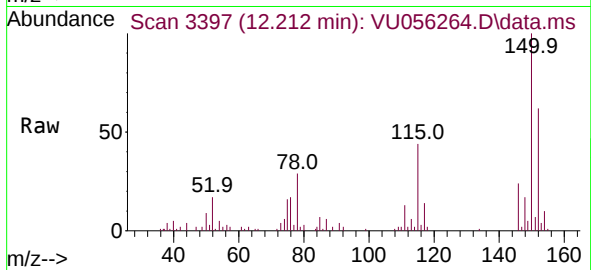
Lab File: VU056264.D

Acq: 13 Nov 2023 20:30

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:146 Resp: 6474

Ion Ratio Lower Upper

146 100

111 55.0 38.3 57.5

148 69.5 52.2 78.4

