

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120823\
 Data File : VU056702.D
 Acq On : 08 Dec 2023 16:14
 Operator : MD/SY
 Sample : 05627-01DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 08 20:58:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 08 20:56:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	259437	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	256279	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	117898	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	103941	5.356	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.200%
7) Chloroethane-d5	1.907	69	78851	5.300	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.000%
11) 1,1-Dichloroethene-d2	2.563	65	44240	5.166	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.400%
20) 2-Butanone-d5	4.618	46	190546	49.245	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.480%
24) Chloroform-d	5.055	84	183692	4.894	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.800%
26) 1,2-Dichloroethane-d4	5.695	65	89347	5.152	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.000%
32) Benzene-d6	5.721	84	361831	4.739	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.800%
36) 1,2-Dichloropropane-d6	6.682	67	112526	4.890	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.800%
41) Toluene-d8	7.894	98	305624	4.533	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.600%
43) trans-1,3-Dichloroprop...	8.174	79	41904	4.748	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.000%
46) 2-Hexanone-d5	8.627	63	156218	45.040	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.080%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	76115	4.629	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	107359	4.929	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	53691	2.653	ug/L	95
12) 1,1-Dichloroethene	2.576	96	85193	5.364	ug/L	97
16) Methylene chloride	3.039	84	218006	10.373	ug/L	99
18) trans-1,2-Dichloroethene	3.348	96	127428	7.798	ug/L	99
22) cis-1,2-Dichloroethene	4.660	96	74526	4.022	ug/L	91
27) 1,2-Dichloroethane	5.785	62	190814	9.583	ug/L	99
29) 1,1,1-Trichloroethane	5.312	97	55078	1.872	ug/L	97
31) Carbon tetrachloride	5.518	117	106094	4.199	ug/L	98
33) Benzene	5.769	78	200289	2.739	ug/L	100
34) Trichloroethene	6.537	95	23179	1.163	ug/L	97
35) Methylcyclohexane	6.685	83	26500	0.921	ug/L #	19
37) 1,2-Dichloropropane	6.782	63	105194	5.516	ug/L	100
42) Toluene	7.965	91	138180	1.825	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	69512	5.473	ug/L	94
47) Tetrachloroethene	8.550	164	117819	8.770	ug/L	99
48) 2-Hexanone	8.675	43	4862	0.660	ug/L #	85
49) Dibromochloromethane	8.547	129	123592	8.558	ug/L #	12
51) Chlorobenzene	9.441	112	323395	6.648	ug/L	100
52) Ethylbenzene	9.566	91	101109	1.203	ug/L	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120823\
 Data File : VU056702.D
 Acq On : 08 Dec 2023 16:14
 Operator : MD/SY
 Sample : 05627-01DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

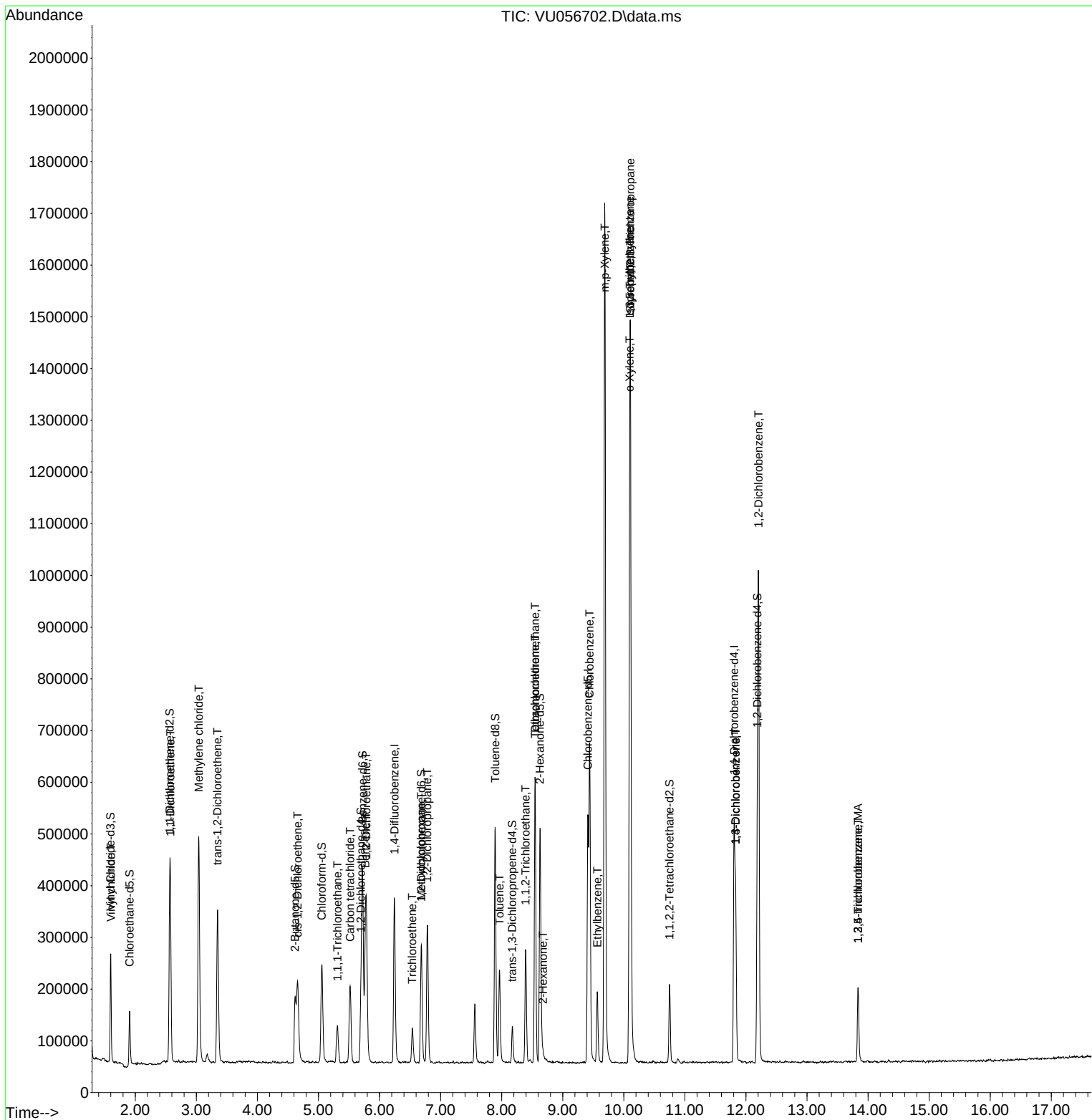
Quant Time: Dec 08 20:58:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 08 20:56:24 2023
 Response via : Initial Calibration

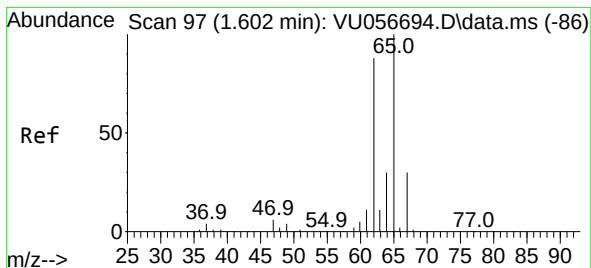
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

53) m,p-Xylene	9.688	106	482851	15.623	ug/L	99
54) o-Xylene	10.097	106	188999	6.296	ug/L	98
55) Styrene	10.110	104	561472	11.244	ug/L	99
60) Isopropylbenzene	10.100	105	128675	1.692	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	29771	2.943	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.100	105	128675	2.061	ug/L #	30
64) 1,3-Dichlorobenzene	11.833	146	123641	3.575	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	123641	3.564	ug/L	96
67) 1,2-Dichlorobenzene	12.206	146	338381	10.664	ug/L	98
69) 1,3,5-Trichlorobenzene	13.836	180	47229	1.814	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	47229	2.227	ug/L	99

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

Quant Time: Dec 08 20:58:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Dec 08 20:56:24 2023
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.653 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

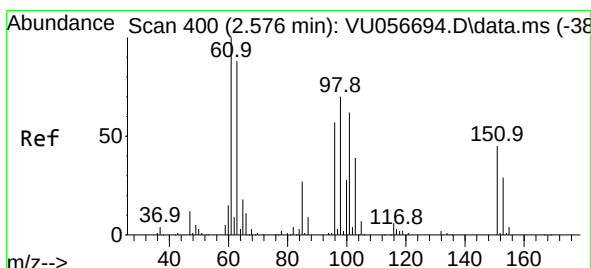
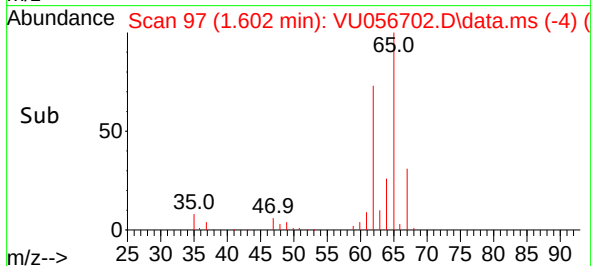
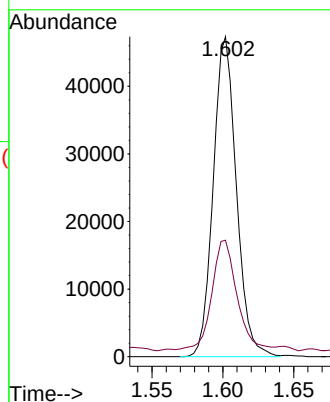
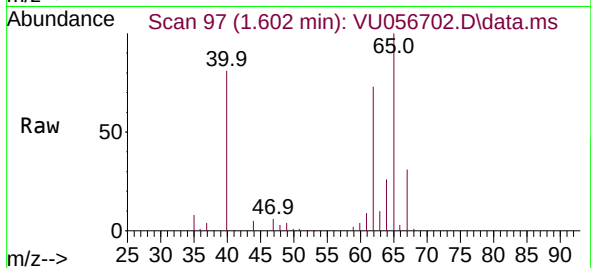
ClientSampleId :

Tgt Ion: 62 Resp: 53691

Ion Ratio Lower Upper

62 100

64 36.4 23.3 43.3



#12

1,1-Dichloroethene

Concen: 5.364 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

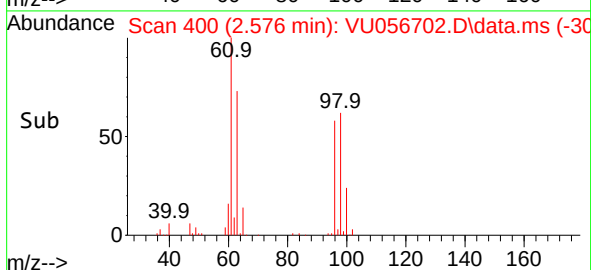
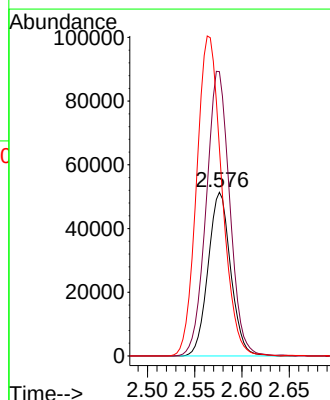
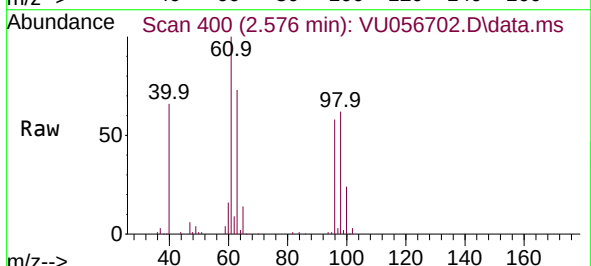
Tgt Ion: 96 Resp: 85193

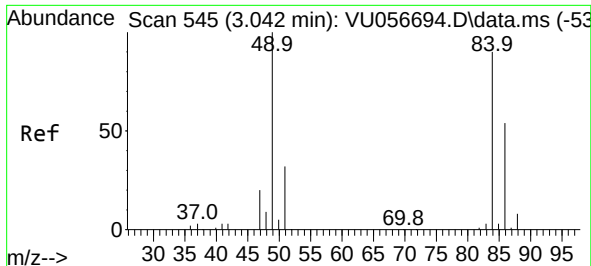
Ion Ratio Lower Upper

96 100

61 173.7 123.1 228.7

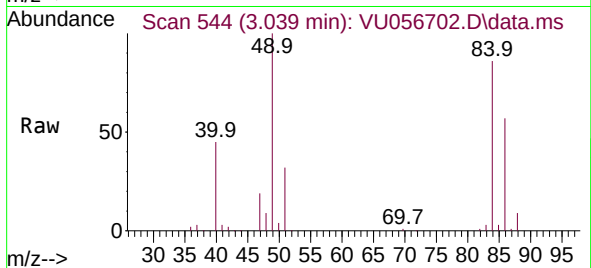
63 127.0 93.3 173.3



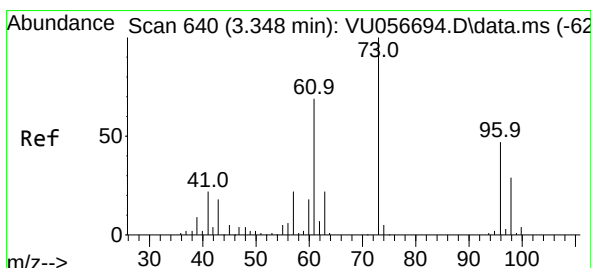
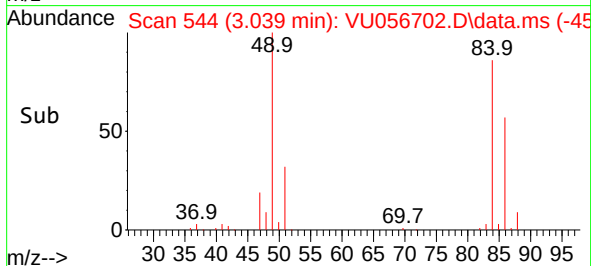
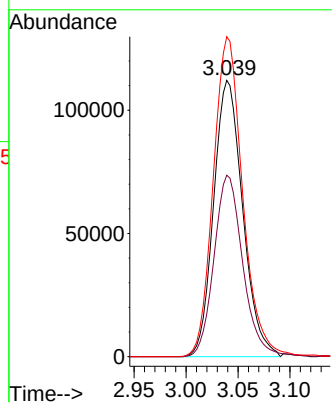


#16
Methylene chloride
Concen: 10.373 ug/L
RT: 3.039 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Instrument :
MSVOA_U
ClientSampleId :

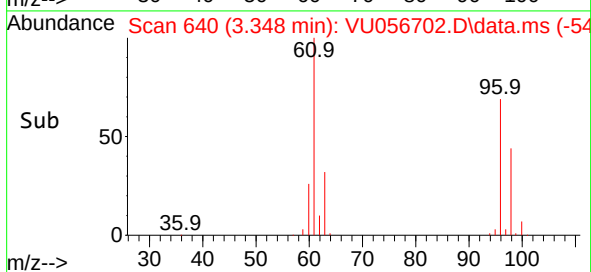
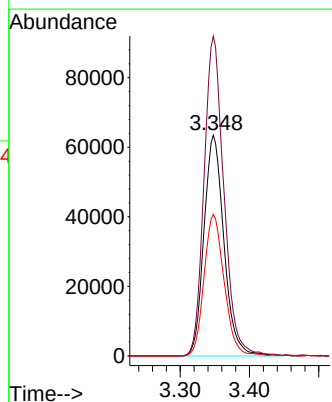
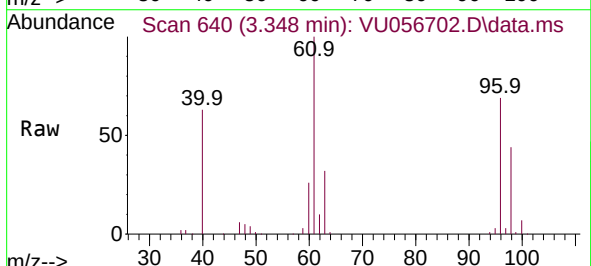


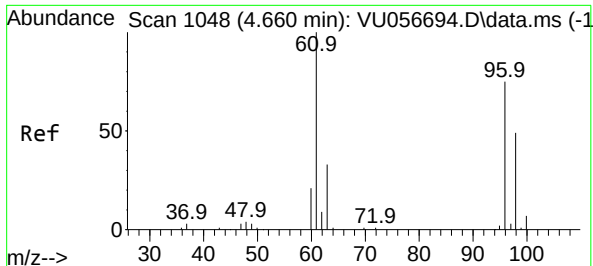
Tgt Ion: 84 Resp: 218006
Ion Ratio Lower Upper
84 100
86 65.7 44.7 83.1
49 115.8 81.8 152.0



#18
trans-1,2-Dichloroethene
Concen: 7.798 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 96 Resp: 127428
Ion Ratio Lower Upper
96 100
61 144.9 101.7 188.9
98 64.1 43.0 80.0





#22

cis-1,2-Dichloroethene

Concen: 4.022 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

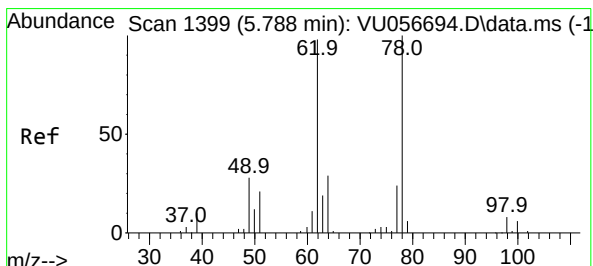
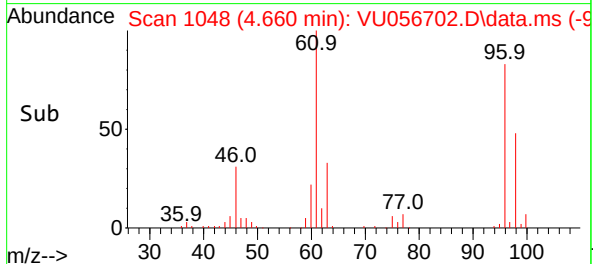
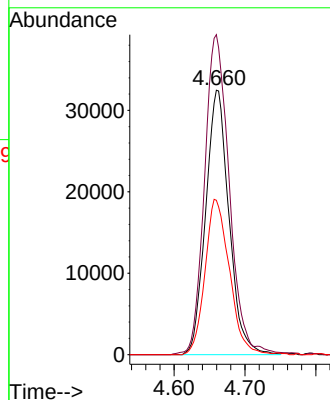
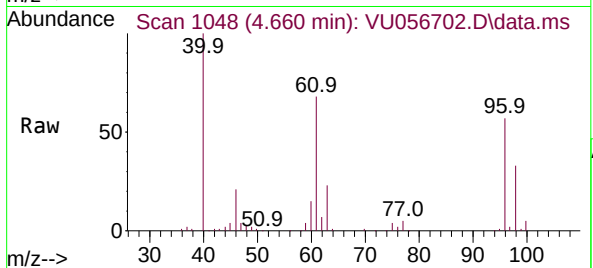
Tgt Ion: 96 Resp: 74526

Ion Ratio Lower Upper

96 100

61 121.0 93.2 173.2

98 58.4 44.8 83.2



#27

1,2-Dichloroethane

Concen: 9.583 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. -0.003 min

Lab File: VU056702.D

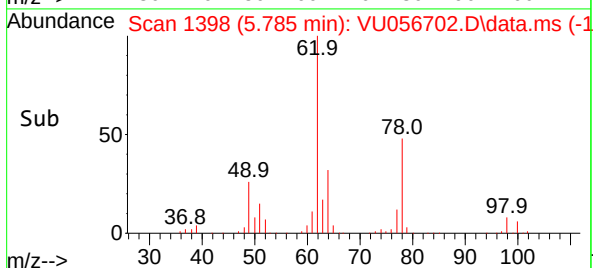
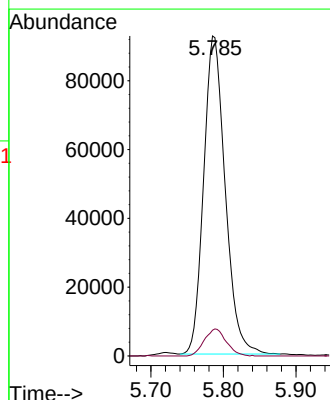
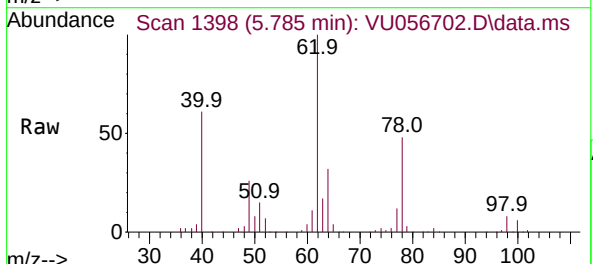
Acq: 08 Dec 2023 16:14

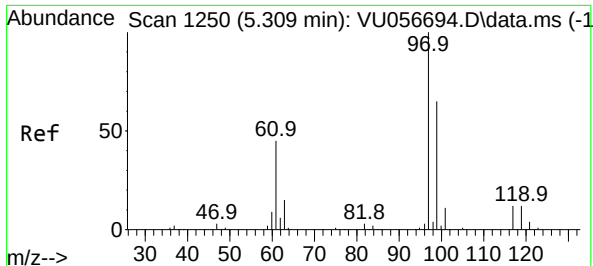
Tgt Ion: 62 Resp: 190814

Ion Ratio Lower Upper

62 100

98 8.0 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 1.872 ug/L

RT: 5.312 min Scan# 1251

Delta R.T. 0.003 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

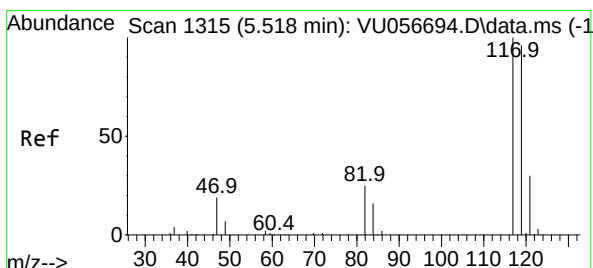
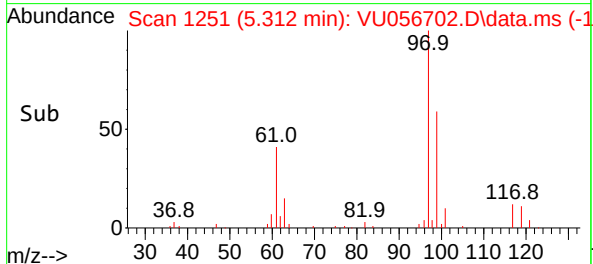
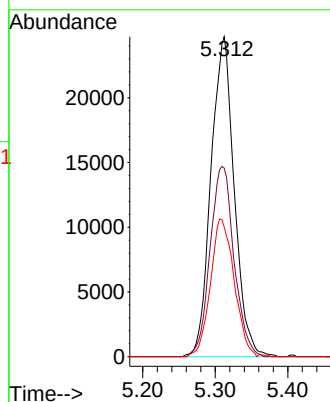
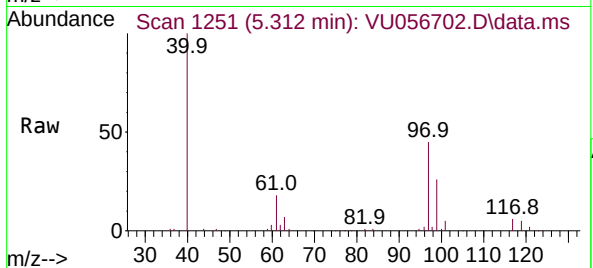
Tgt Ion: 97 Resp: 55078

Ion Ratio Lower Upper

97 100

99 61.3 51.6 77.4

61 43.8 34.3 51.5



#31

Carbon tetrachloride

Concen: 4.199 ug/L

RT: 5.518 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VU056702.D

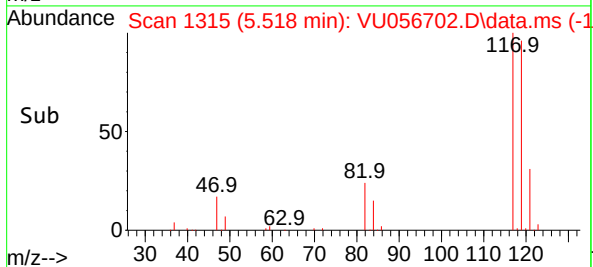
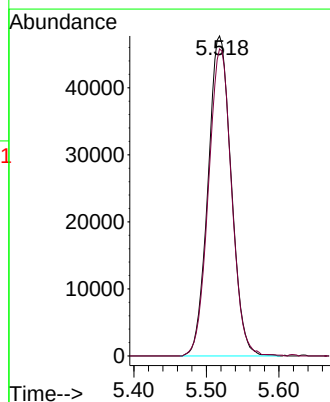
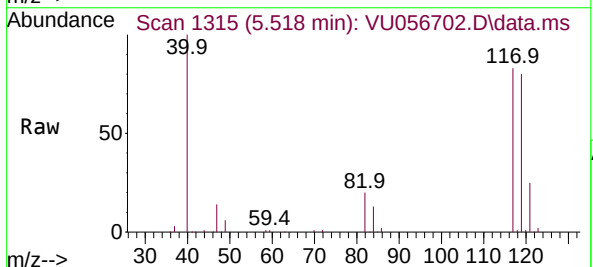
Acq: 08 Dec 2023 16:14

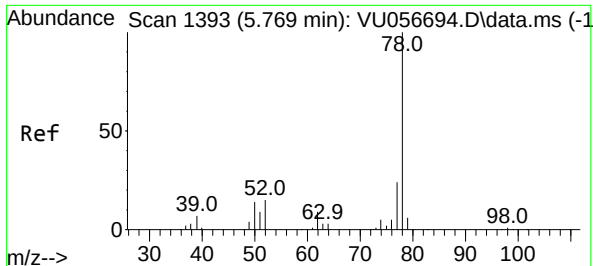
Tgt Ion: 117 Resp: 106094

Ion Ratio Lower Upper

117 100

119 95.9 78.1 117.1

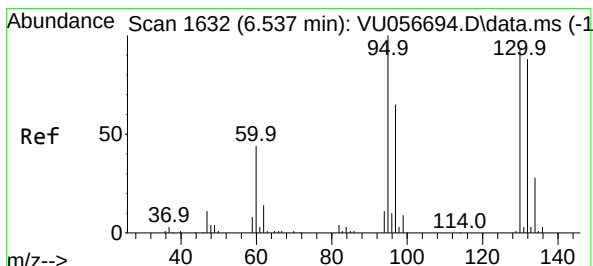
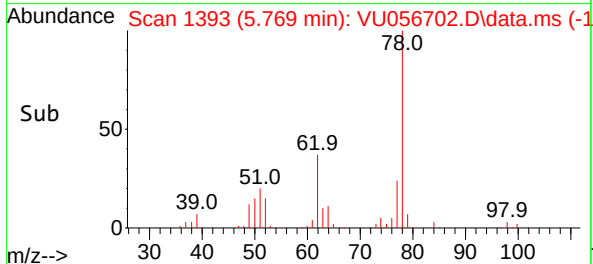
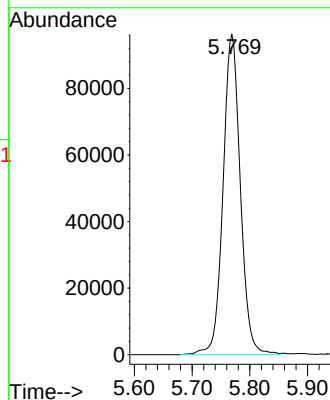
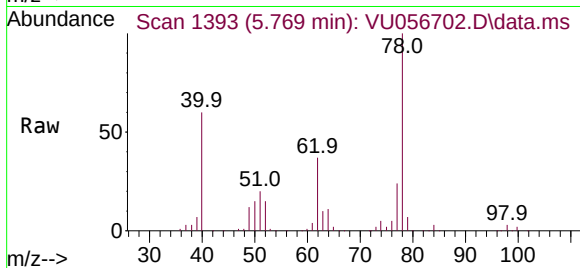




#33
Benzene
Concen: 2.739 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

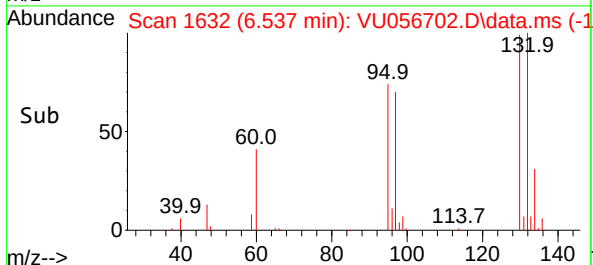
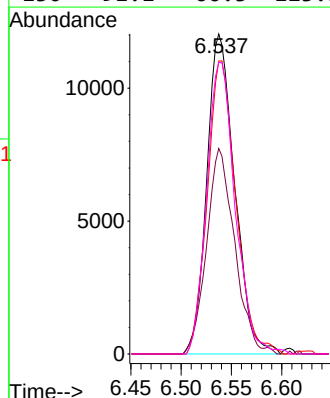
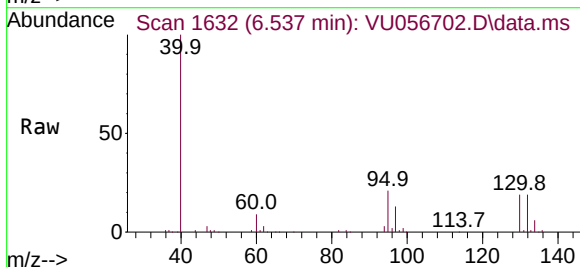
Instrument :
MSVOA_U
ClientSampleId :

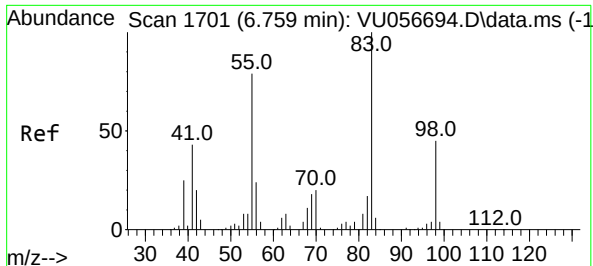
Tgt Ion: 78 Resp: 200289



#34
Trichloroethene
Concen: 1.163 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 95 Resp: 23179
Ion Ratio Lower Upper
95 100
97 64.2 46.5 86.3
132 91.6 62.0 115.2
130 91.1 66.3 123.1





#35

Methylcyclohexane

Concen: 0.921 ug/L

RT: 6.685 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU056702.D

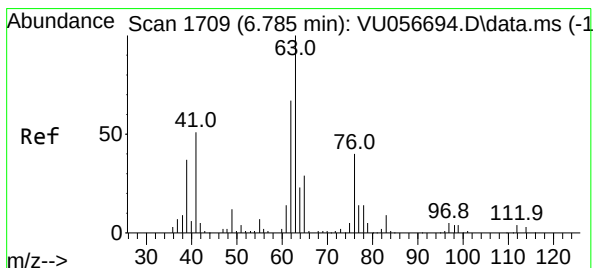
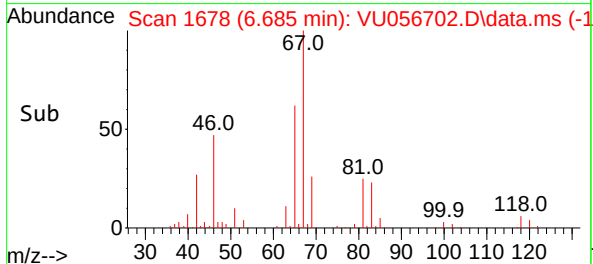
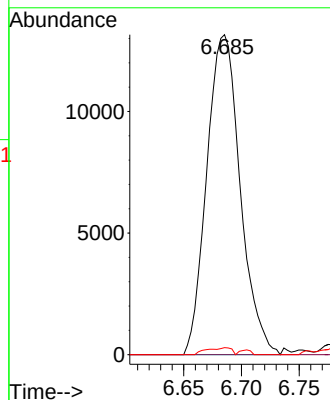
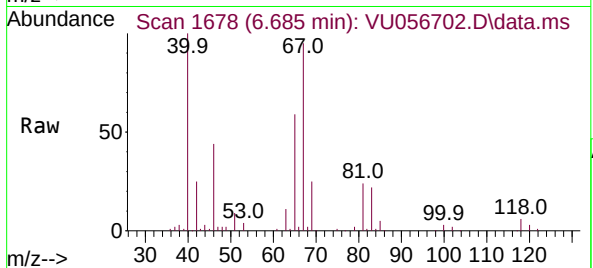
Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 26500
Ion Ratio	Lower Upper
83 100	
55 0.0	62.9 94.3#
98 1.6	35.3 52.9#



#37

1,2-Dichloropropane

Concen: 5.516 ug/L

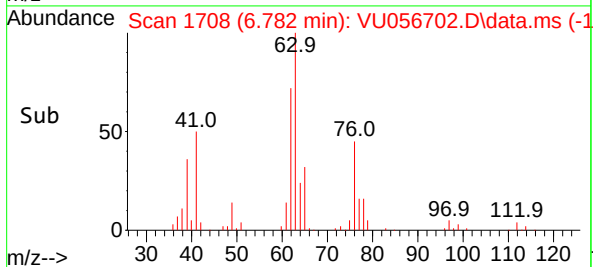
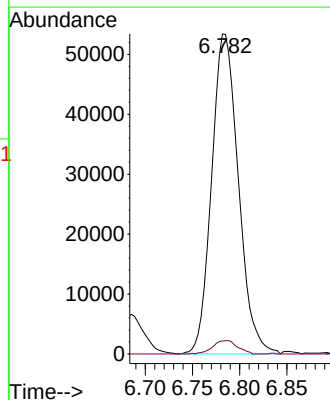
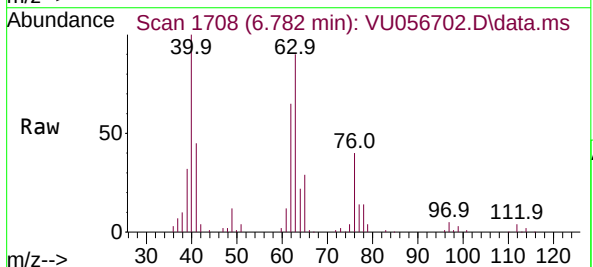
RT: 6.782 min Scan# 1708

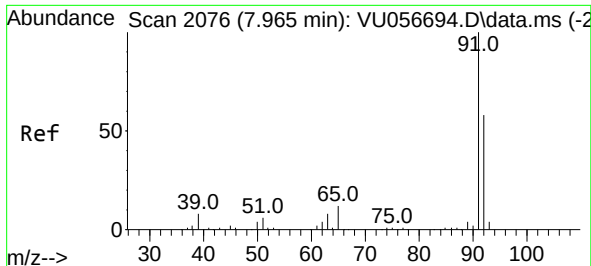
Delta R.T. -0.003 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Tgt Ion: 63	Resp: 105194
Ion Ratio	Lower Upper
63 100	
112 3.9	3.2 4.8





#42

Toluene

Concen: 1.825 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

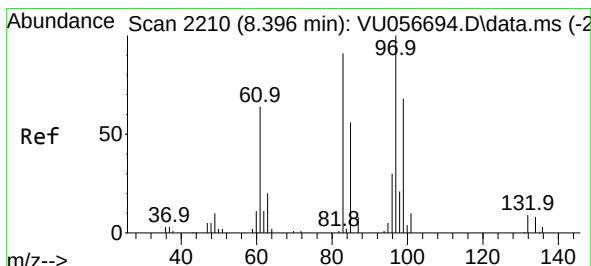
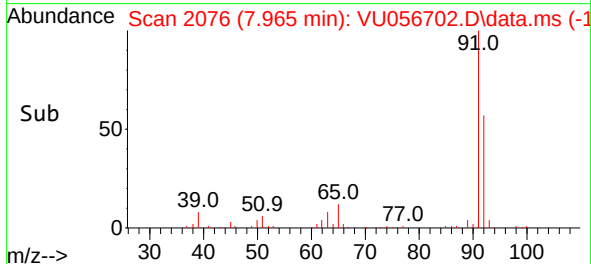
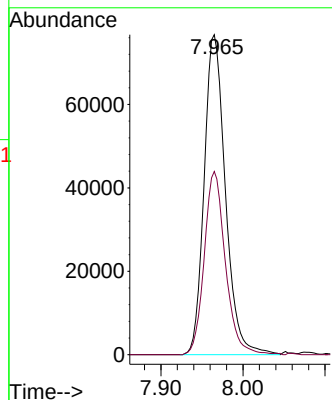
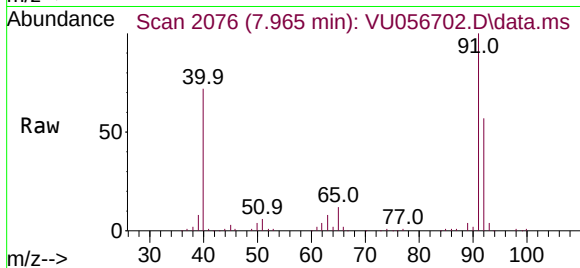
ClientSampleId :

Tgt Ion: 91 Resp: 138180

Ion Ratio Lower Upper

91 100

92 57.3 40.6 75.4



#45

1,1,2-Trichloroethane

Concen: 5.473 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. -0.003 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Tgt Ion: 97 Resp: 69512

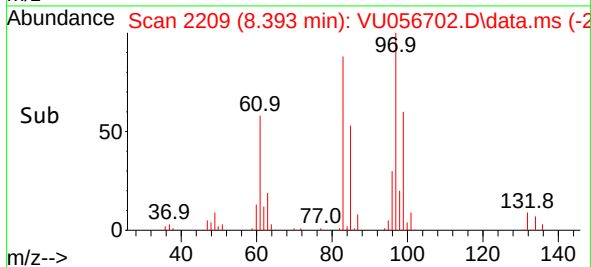
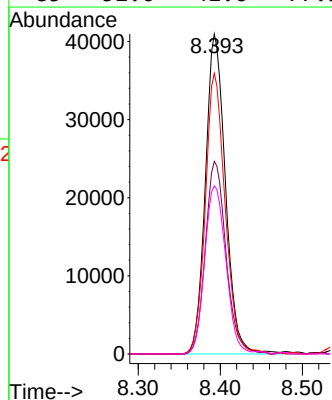
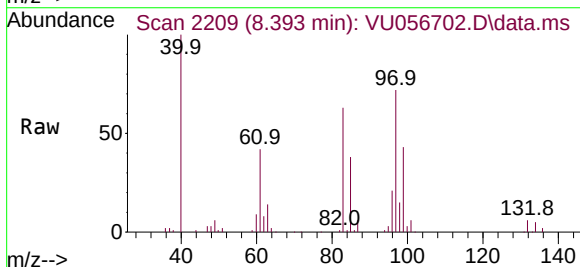
Ion Ratio Lower Upper

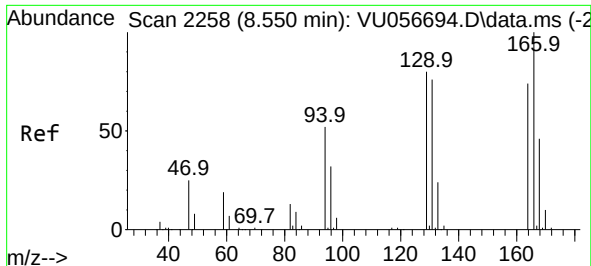
97 100

99 60.1 44.3 82.3

83 87.7 65.4 121.4

85 52.6 41.6 77.3





#47

Tetrachloroethene

Concen: 8.770 ug/L

RT: 8.550 min Scan# 21

Delta R.T. 0.000 min

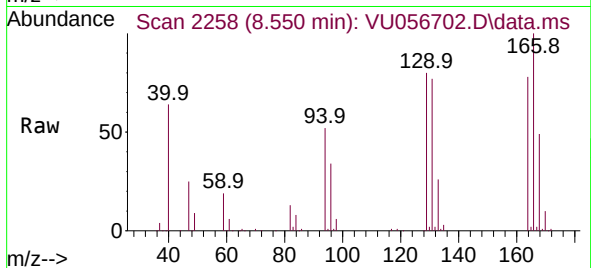
Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 117819

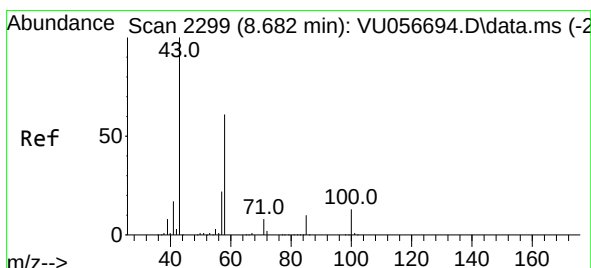
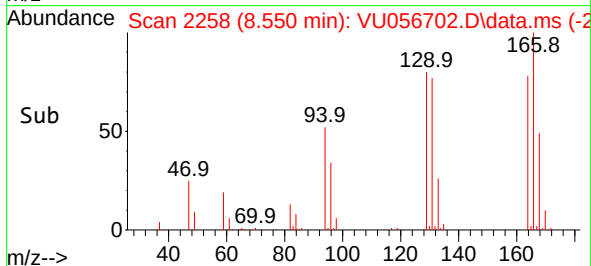
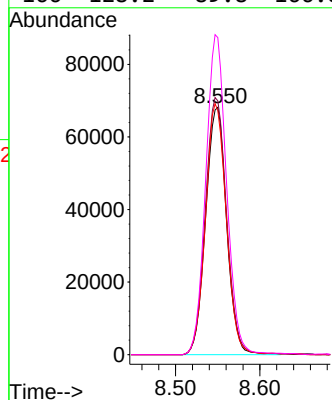
Ion Ratio Lower Upper

164 100

129 102.7 71.0 131.9

131 98.7 70.3 130.7

166 128.2 89.8 166.8



#48

2-Hexanone

Concen: 0.660 ug/L

RT: 8.675 min Scan# 2297

Delta R.T. -0.006 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Tgt Ion: 43 Resp: 4862

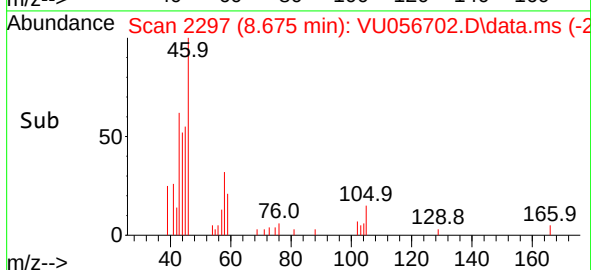
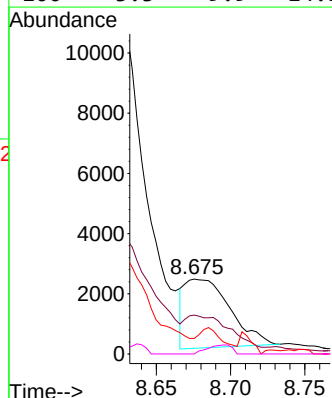
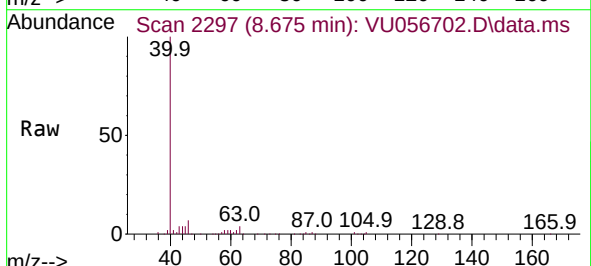
Ion Ratio Lower Upper

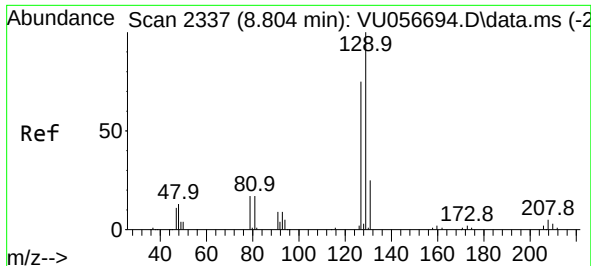
43 100

58 47.0 48.7 73.1#

57 20.8 16.8 25.2

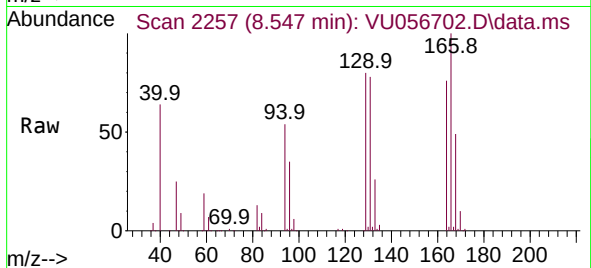
100 3.3 9.9 14.9#



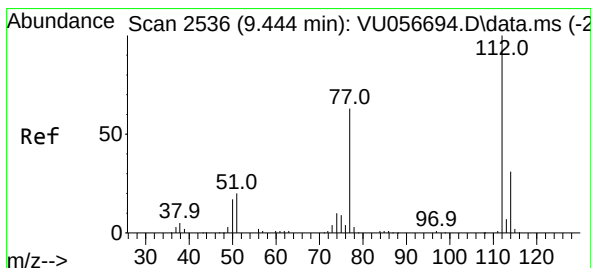
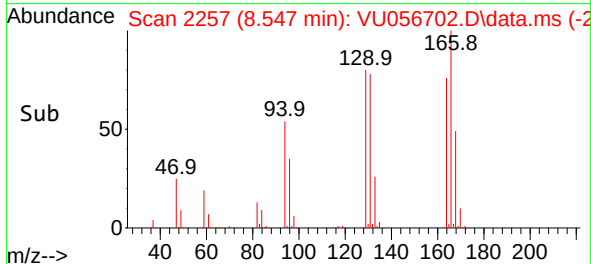
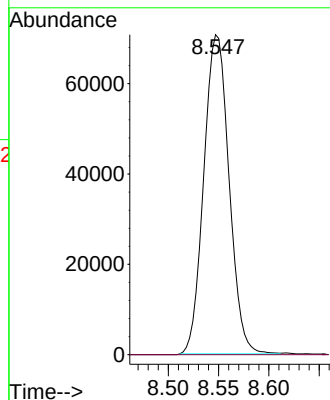


#49
Dibromochloromethane
Concen: 8.558 ug/L
RT: 8.547 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Instrument :
MSVOA_U
ClientSampleId :

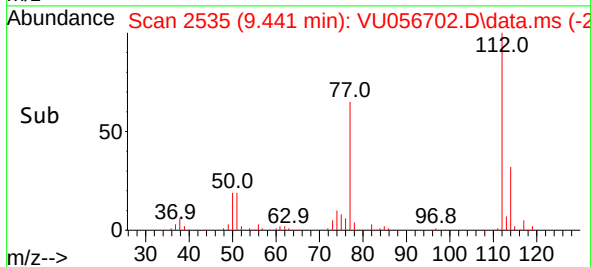
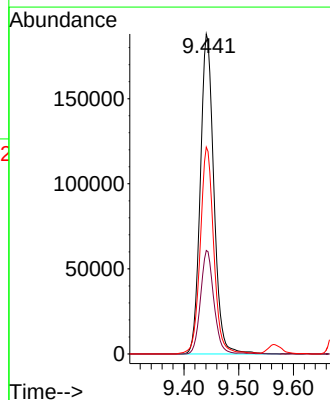
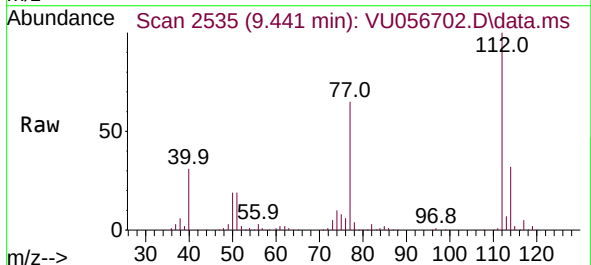


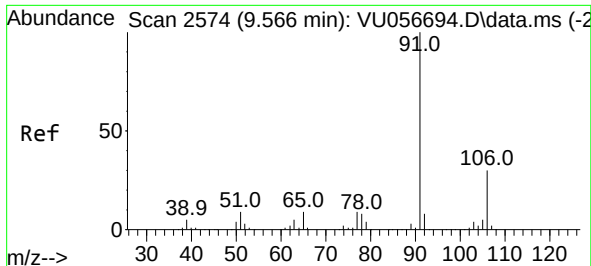
Tgt Ion:129 Resp: 123592
Ion Ratio Lower Upper
129 100
127 0.0 52.9 98.3#



#51
Chlorobenzene
Concen: 6.648 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion:112 Resp: 323395
Ion Ratio Lower Upper
112 100
114 32.4 22.5 41.7
77 64.7 51.7 77.5

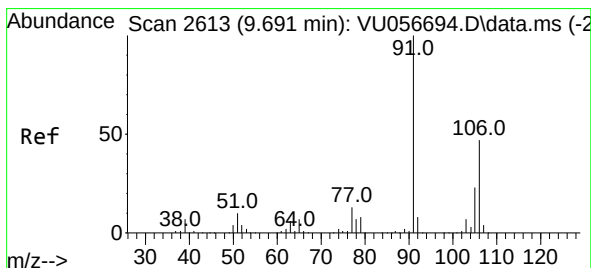
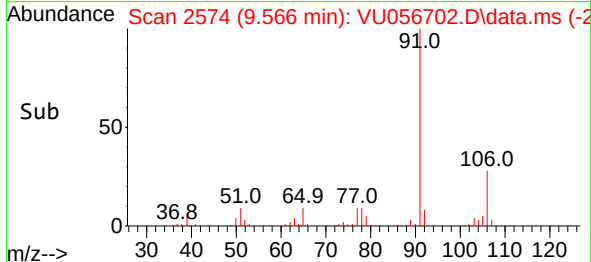
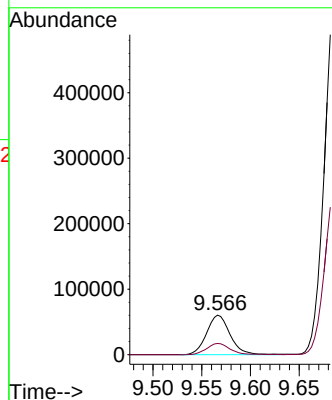
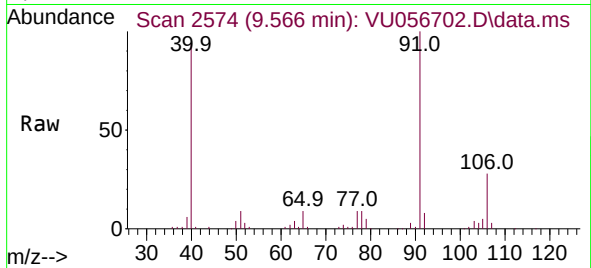




#52
Ethylbenzene
Concen: 1.203 ug/L
RT: 9.566 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

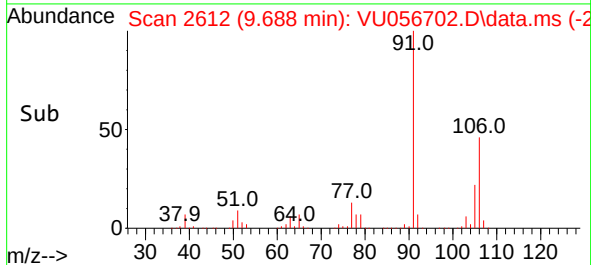
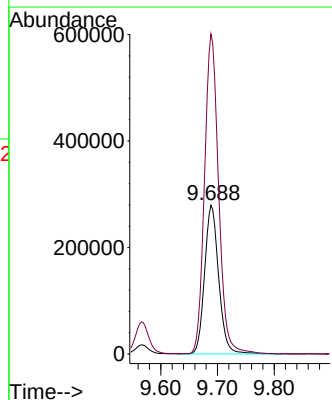
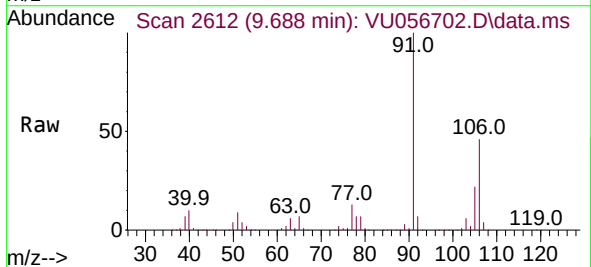
Instrument :
MSVOA_U
ClientSampleId :

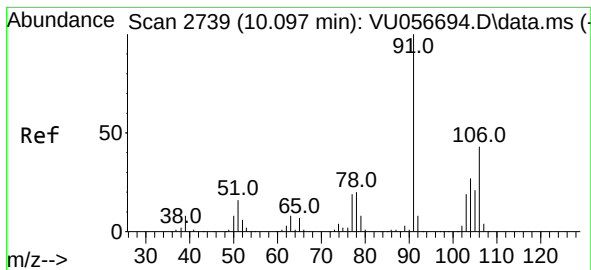
Tgt Ion: 91 Resp: 101109
Ion Ratio Lower Upper
91 100
106 28.2 21.1 39.1



#53
m,p-Xylene
Concen: 15.623 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 106 Resp: 482851
Ion Ratio Lower Upper
106 100
91 215.3 149.6 277.8





#54

o-Xylene

Concen: 6.296 ug/L

RT: 10.097 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

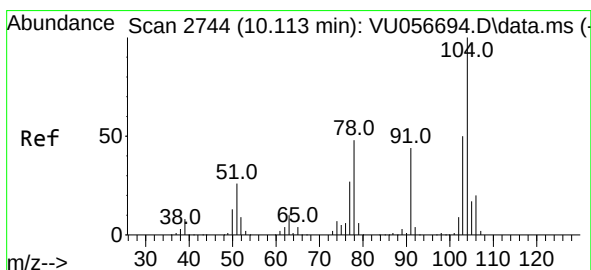
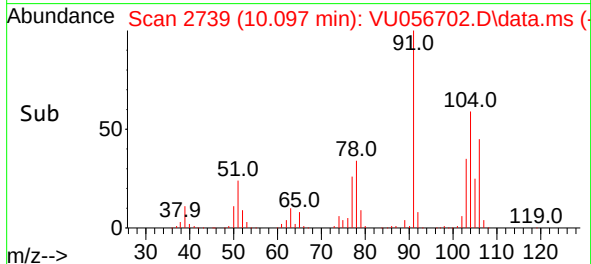
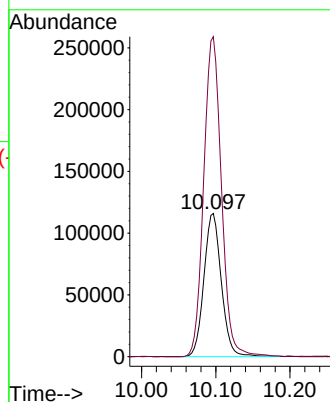
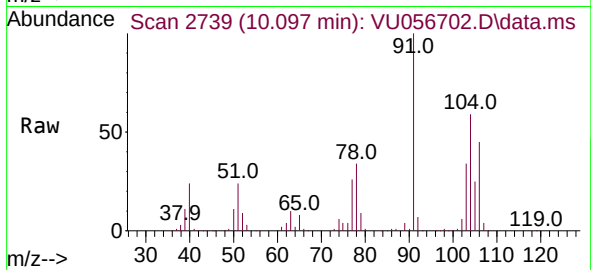
ClientSampleId :

Tgt Ion:106 Resp: 188999

Ion Ratio Lower Upper

106 100

91 223.5 159.3 295.9



#55

Styrene

Concen: 11.244 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. -0.003 min

Lab File: VU056702.D

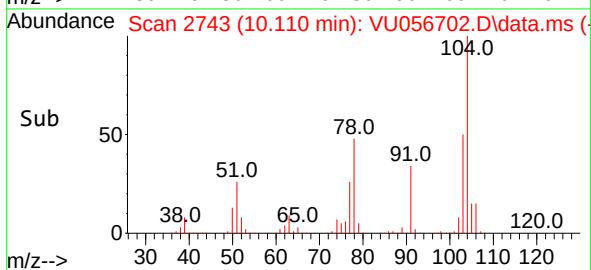
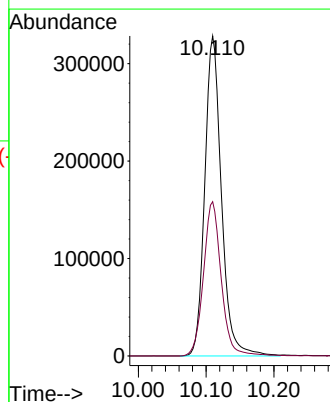
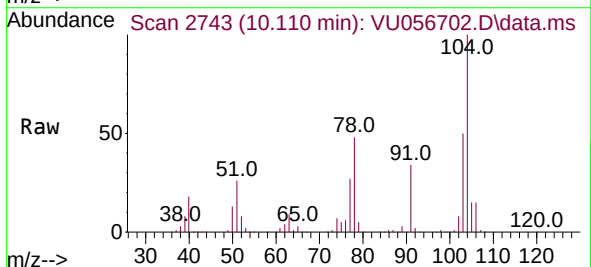
Acq: 08 Dec 2023 16:14

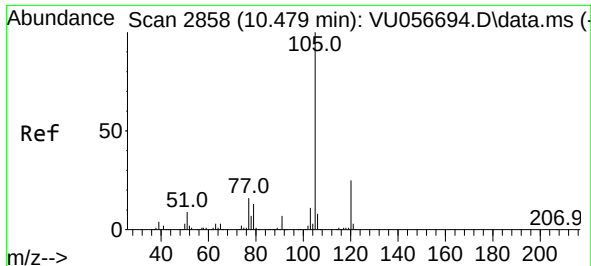
Tgt Ion:104 Resp: 561472

Ion Ratio Lower Upper

104 100

78 48.2 34.2 63.6

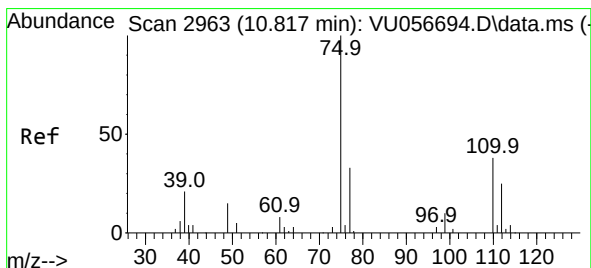
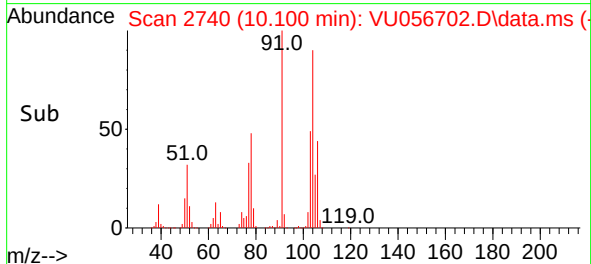
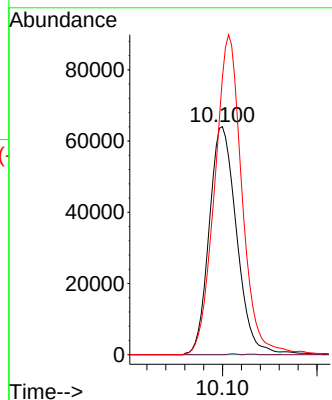
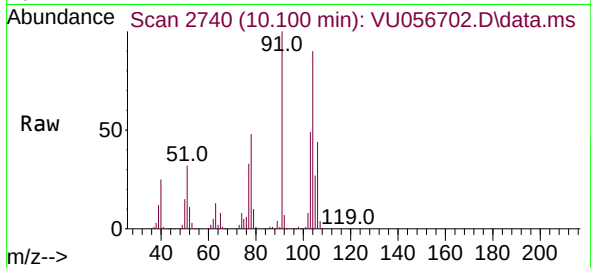




#60
Isopropylbenzene
Concen: 1.692 ug/L
RT: 10.100 min Scan# 21
Delta R.T. -0.379 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

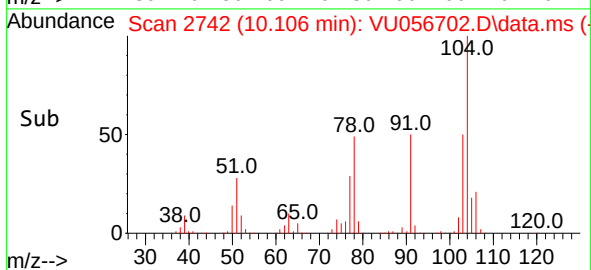
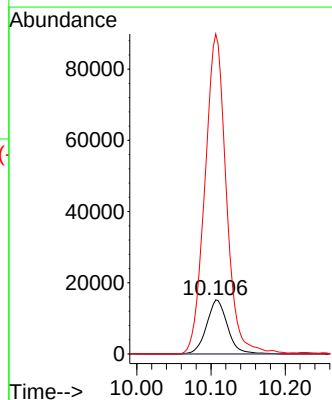
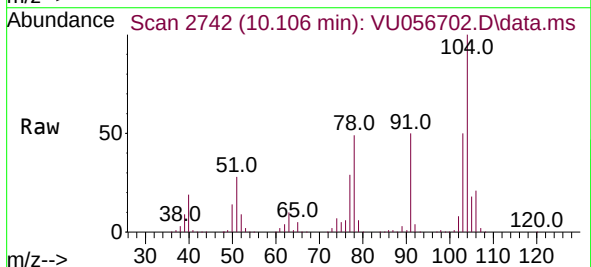
Instrument :
MSVOA_U
ClientSampleId :

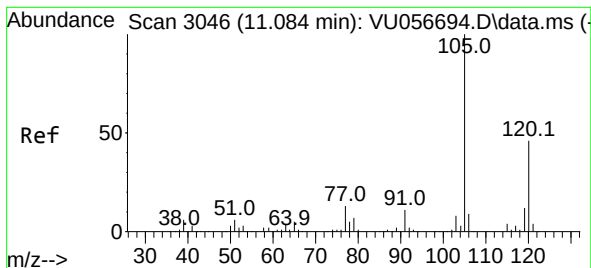
Tgt Ion:105 Resp: 128675
Ion Ratio Lower Upper
105 100
120 0.0 20.4 30.6#
77 139.2 13.3 19.9#



#61
1,2,3-Trichloropropane
Concen: 2.943 ug/L
RT: 10.106 min Scan# 2742
Delta R.T. -0.711 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

Tgt Ion: 75 Resp: 29771
Ion Ratio Lower Upper
75 100
110 0.0 30.4 45.6#
77 601.6 27.0 40.6#





#62

1,3,5-Trimethylbenzene

Concen: 2.061 ug/L

RT: 10.100 min Scan# 21

Delta R.T. -0.984 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

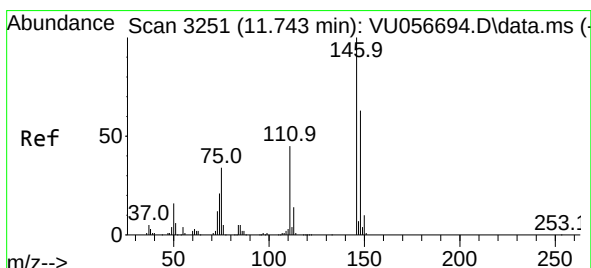
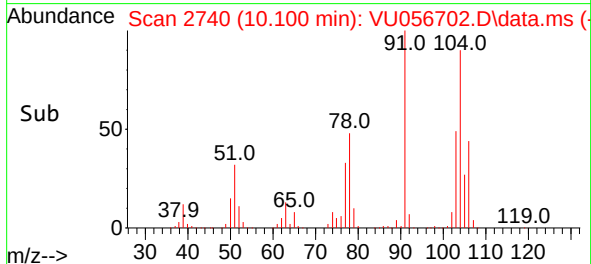
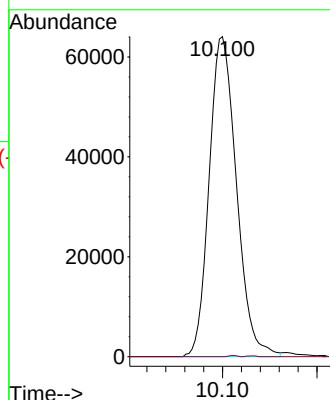
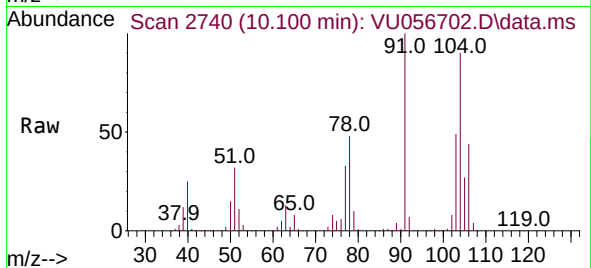
ClientSampleId :

Tgt Ion:105 Resp: 128675

Ion Ratio Lower Upper

105 100

120 0.0 37.2 55.8#



#64

1,3-Dichlorobenzene

Concen: 3.575 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.090 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

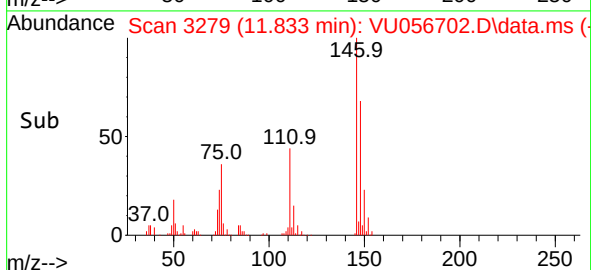
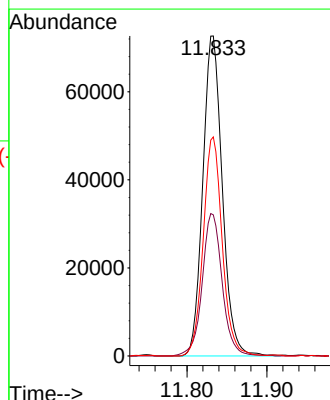
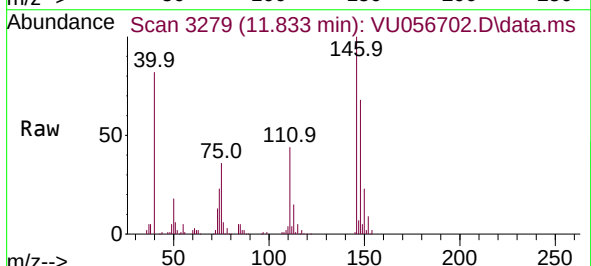
Tgt Ion:146 Resp: 123641

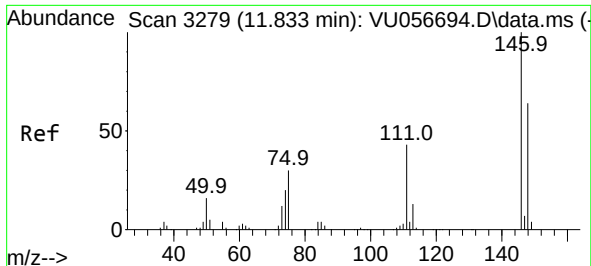
Ion Ratio Lower Upper

146 100

111 44.1 31.1 57.7

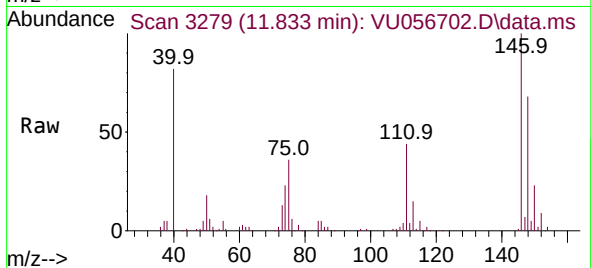
148 68.5 45.1 83.9



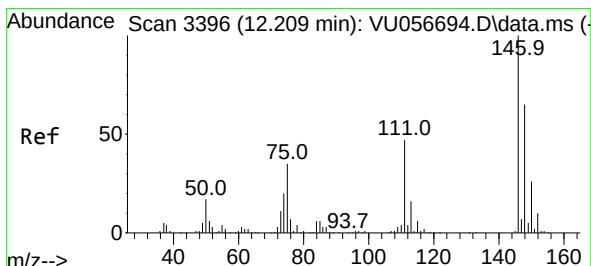
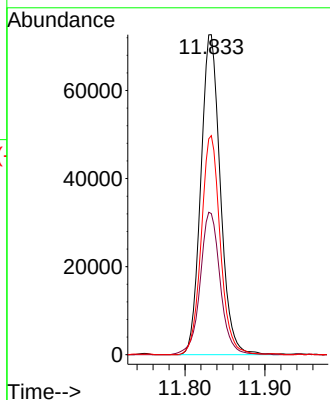
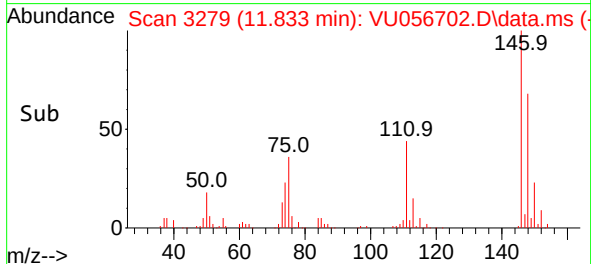


#65
1,4-Dichlorobenzene
Concen: 3.564 ug/L
RT: 11.833 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14

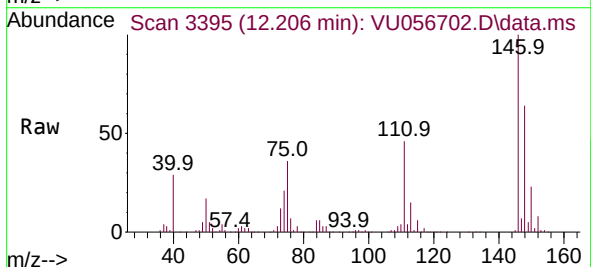
Instrument :
MSVOA_U
ClientSampleId :



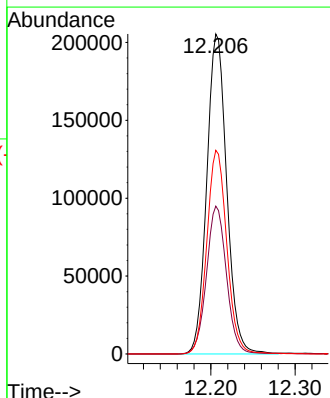
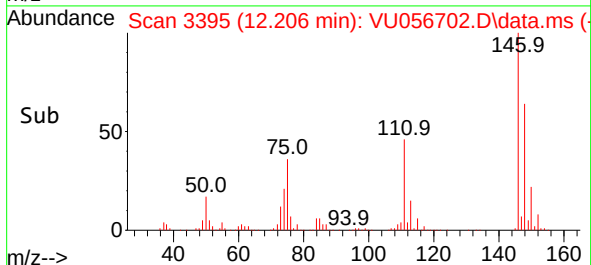
Tgt Ion:146 Resp: 123641
Ion Ratio Lower Upper
146 100
111 44.1 30.5 56.7
148 68.5 44.8 83.2

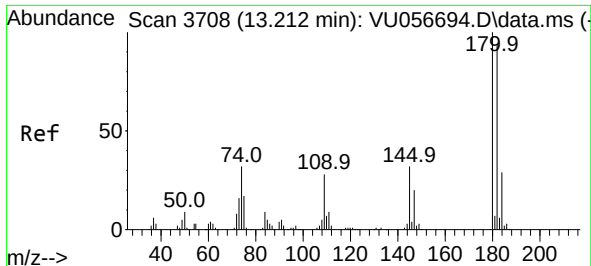


#67
1,2-Dichlorobenzene
Concen: 10.664 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.003 min
Lab File: VU056702.D
Acq: 08 Dec 2023 16:14



Tgt Ion:146 Resp: 338381
Ion Ratio Lower Upper
146 100
111 46.2 38.3 57.5
148 63.6 52.2 78.4





#69

1,3,5-Trichlorobenzene

Concen: 1.814 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

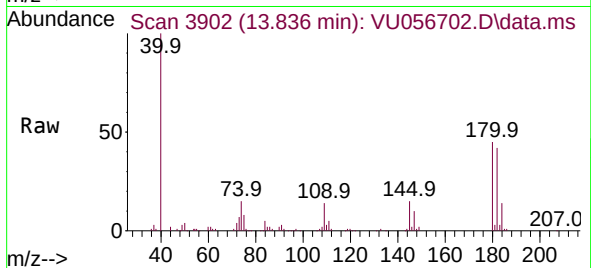
Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 47229

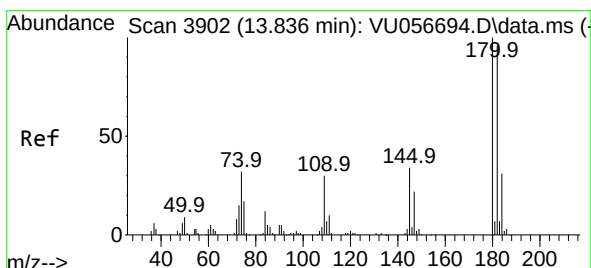
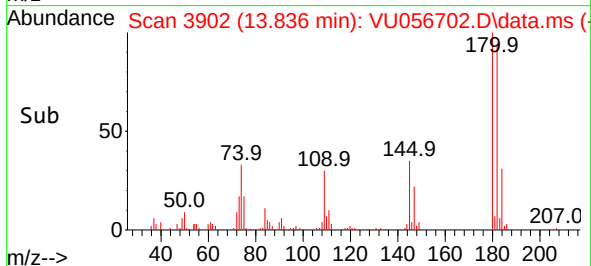
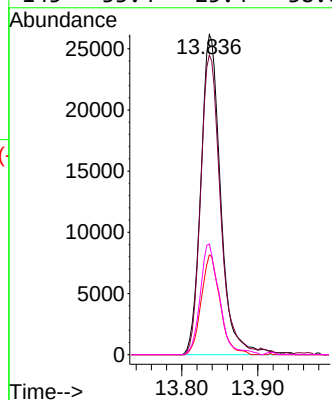
Ion Ratio Lower Upper

180 100

182 93.2 75.1 112.7

184 29.6 23.5 35.3

145 33.4 25.4 38.0



#70

1,2,4-trichlorobenzene

Concen: 2.227 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU056702.D

Acq: 08 Dec 2023 16:14

Tgt Ion:180 Resp: 47229

Ion Ratio Lower Upper

180 100

182 93.2 75.4 113.2

145 33.4 26.8 40.2

