

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120823\
 Data File : VU056698.D
 Acq On : 08 Dec 2023 14:38
 Operator : MD/SY
 Sample : 05627-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 08 20:57:30 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	268018	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	261535	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	123989	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	101226	5.049	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.000%
7) Chloroethane-d5	1.907	69	74687	4.859	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.200%
11) 1,1-Dichloroethene-d2	2.563	65	41919	4.738	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.800%
20) 2-Butanone-d5	4.621	46	170263	42.594	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.180%
24) Chloroform-d	5.055	84	170016	4.385	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.600%
26) 1,2-Dichloroethane-d4	5.695	65	84214	4.700	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.000%
32) Benzene-d6	5.721	84	341971	4.389	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.800%
36) 1,2-Dichloropropane-d6	6.685	67	103243	4.396	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.000%
41) Toluene-d8	7.891	98	291491	4.236	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.800%
43) trans-1,3-Dichloroprop...	8.177	79	39503	4.386	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.800%
46) 2-Hexanone-d5	8.627	63	149458	42.225	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.460%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	73202	4.362	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	104179	4.548	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	113834	5.444	ug/L	99
12) 1,1-Dichloroethene	2.576	96	180527	11.003	ug/L #	81
15) Methyl Acetate	3.039	43	1879	0.310	ug/L #	69
16) Methylene chloride	3.039	84	453222	20.874	ug/L	98
18) trans-1,2-Dichloroethene	3.348	96	275293	16.308	ug/L	98
22) cis-1,2-Dichloroethene	4.660	96	155429	8.119	ug/L	96
27) 1,2-Dichloroethane	5.785	62	407234	19.798	ug/L	98
29) 1,1,1-Trichloroethane	5.309	97	115327	3.842	ug/L	99
31) Carbon tetrachloride	5.518	117	231713	8.986	ug/L	98
33) Benzene	5.769	78	426405	5.714	ug/L	100
34) Trichloroethene	6.537	95	50780	2.497	ug/L	98
35) Methylcyclohexane	6.685	83	24439	0.833	ug/L #	18
37) 1,2-Dichloropropane	6.785	63	227337	11.682	ug/L	100
42) Toluene	7.965	91	294171	3.808	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	145511	11.227	ug/L	95
47) Tetrachloroethene	8.547	164	254903	18.592	ug/L	98
48) 2-Hexanone	8.679	43	4717	0.628	ug/L #	90
49) Dibromochloromethane	8.547	129	262781	17.830	ug/L #	12
51) Chlorobenzene	9.441	112	681549	13.729	ug/L	100

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

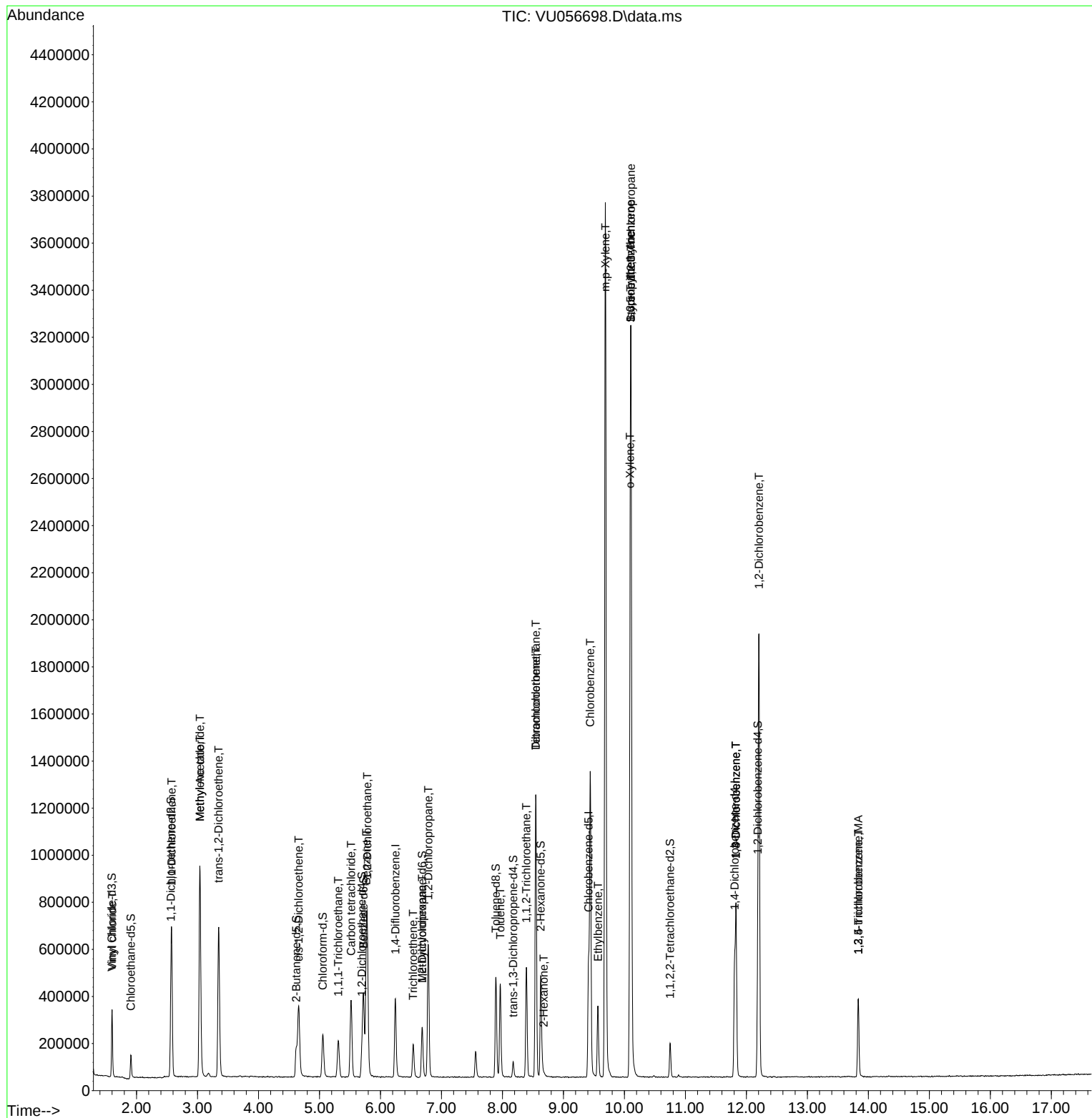
52) Ethylbenzene	9.566	91	222240	2.590	ug/L	99
53) m,p-Xylene	9.688	106	1062063	33.674	ug/L	98
54) o-Xylene	10.094	106	413406	13.494	ug/L	98
55) Styrene	10.110	104	1235002	24.234	ug/L	99
60) Isopropylbenzene	10.100	105	282597	3.534	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	64297	6.044	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.100	105	282597	4.304	ug/L #	30
64) 1,3-Dichlorobenzene	11.830	146	273847	7.529	ug/L	99
65) 1,4-Dichlorobenzene	11.830	146	273847	7.506	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	723473	21.680	ug/L	98
69) 1,3,5-Trichlorobenzene	13.836	180	103494	3.779	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	103548	4.642	ug/L	99

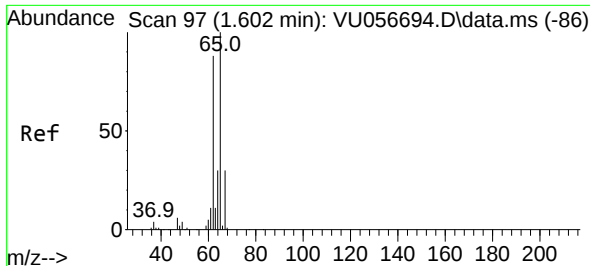
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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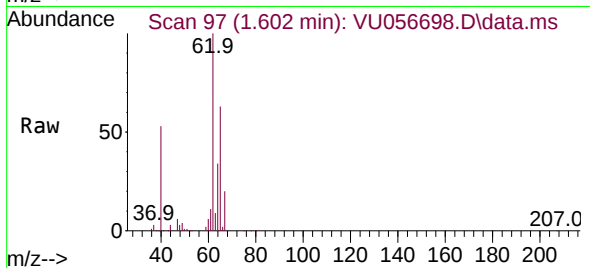
Quant Time: Dec 08 20:57:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
Quant Title : TRACE VOA SFAM1.0
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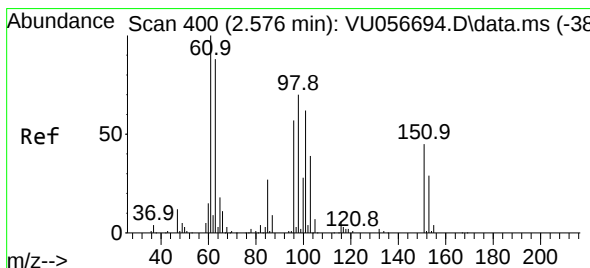
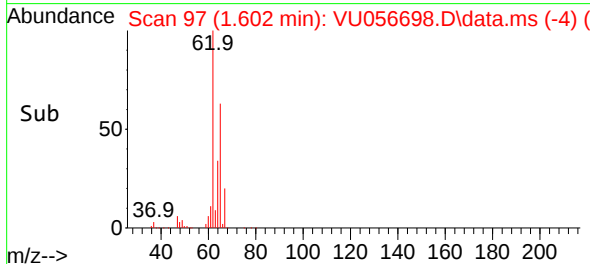
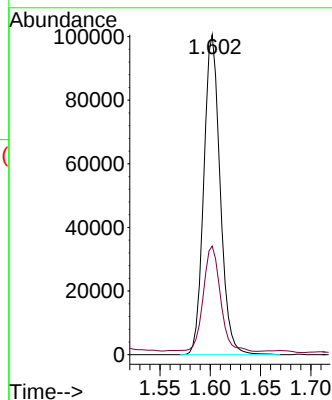


#5
 Vinyl chloride
 Concen: 5.444 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VU056698.D
 Acq: 08 Dec 2023 14:38

Instrument :
 MSVOA_U
 ClientSampleId :

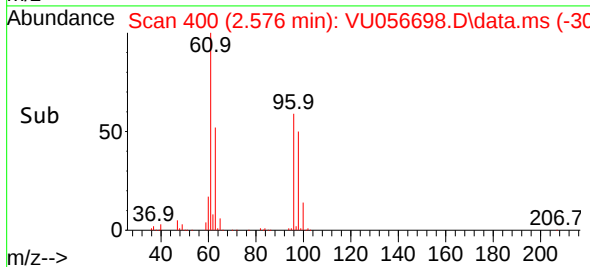
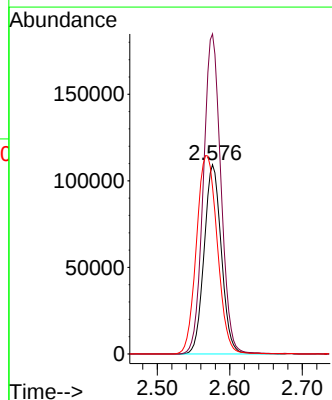
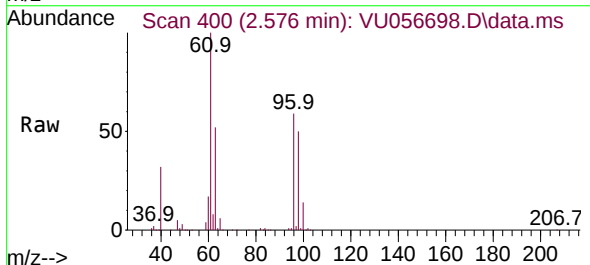


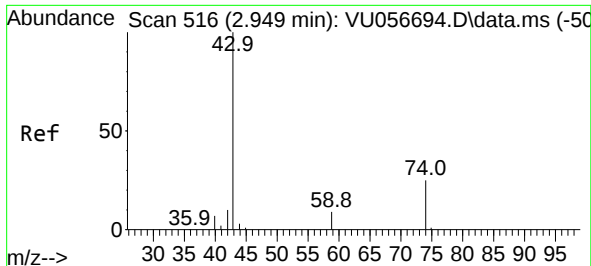
Tgt Ion: 62 Resp: 113834
 Ion Ratio Lower Upper
 62 100
 64 34.0 23.3 43.3



#12
 1,1-Dichloroethene
 Concen: 11.003 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: VU056698.D
 Acq: 08 Dec 2023 14:38

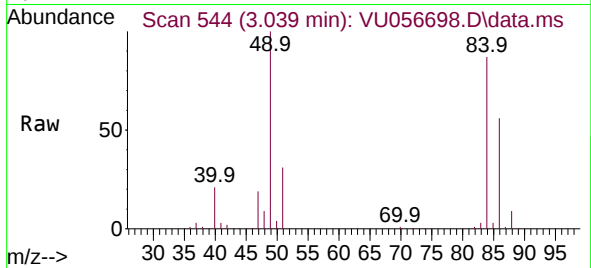
Tgt Ion: 96 Resp: 180527
 Ion Ratio Lower Upper
 96 100
 61 169.1 123.1 228.7
 63 88.3 93.3 173.3



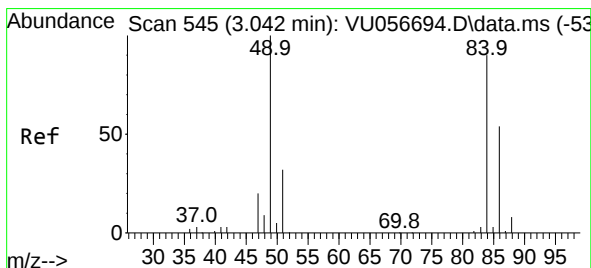
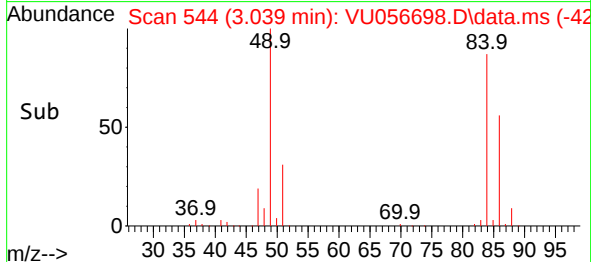
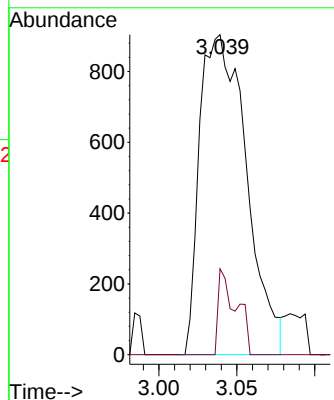


#15
Methyl Acetate
Concen: 0.310 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.090 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Instrument :
MSVOA_U
ClientSampleId :

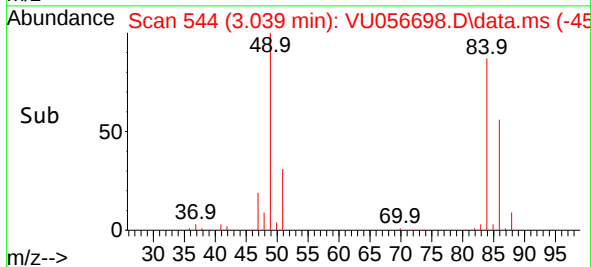
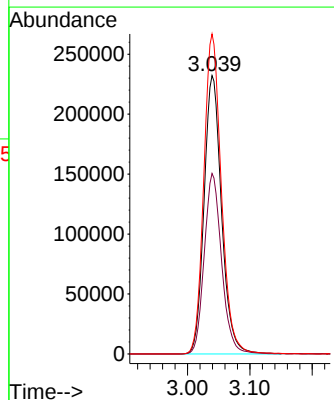
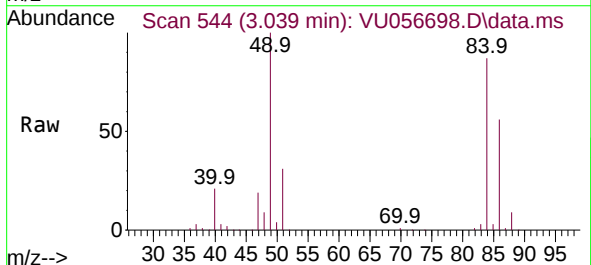


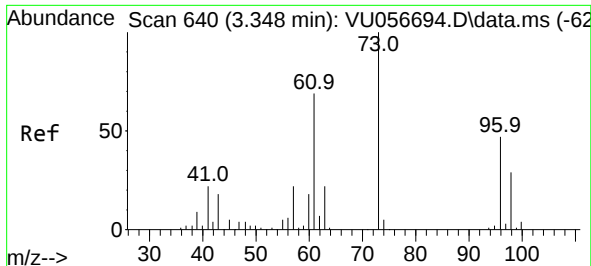
Tgt Ion: 43 Resp: 1879
Ion Ratio Lower Upper
43 100
74 10.2 20.6 31.0#



#16
Methylene chloride
Concen: 20.874 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

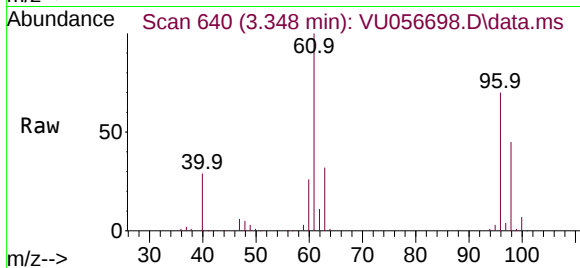
Tgt Ion: 84 Resp: 453222
Ion Ratio Lower Upper
84 100
86 64.8 44.7 83.1
49 114.9 81.8 152.0





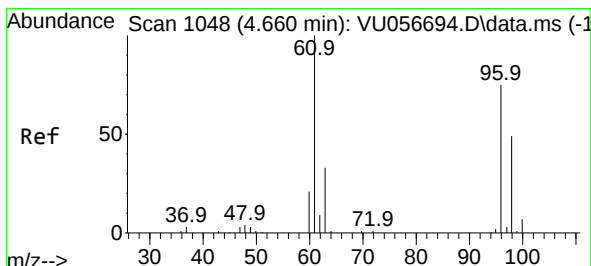
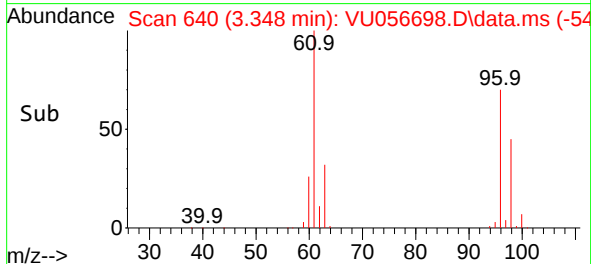
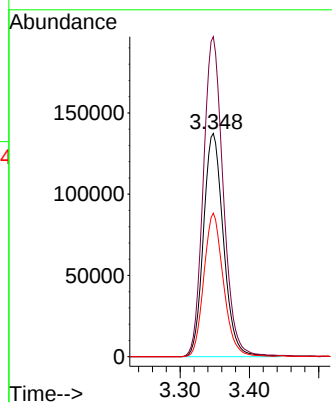
#18
trans-1,2-Dichloroethene
Concen: 16.308 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 275293

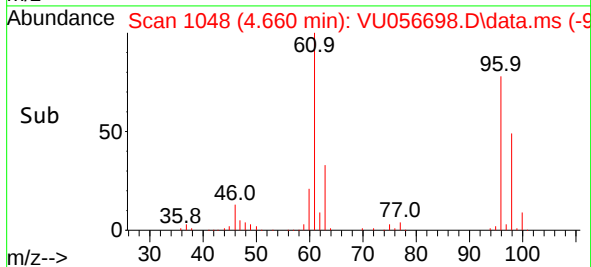
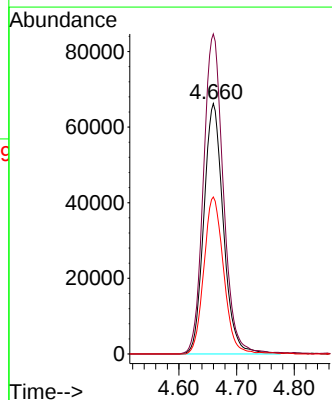
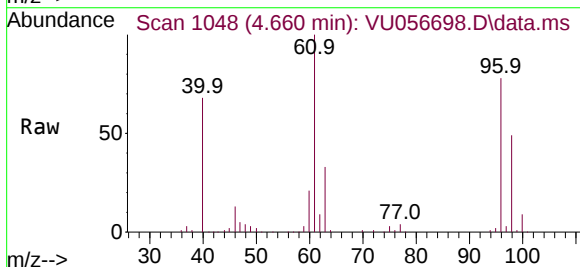
Ion	Ratio	Lower	Upper
96	100		
61	143.3	101.7	188.9
98	64.3	43.0	80.0

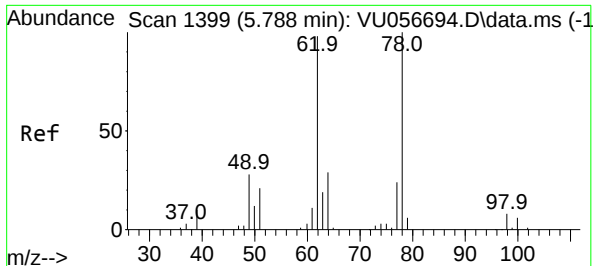


#22
cis-1,2-Dichloroethene
Concen: 8.119 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion: 96 Resp: 155429

Ion	Ratio	Lower	Upper
96	100		
61	127.8	93.2	173.2
98	62.7	44.8	83.2





#27

1,2-Dichloroethane

Concen: 19.798 ug/L

RT: 5.785 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU056698.D

Acq: 08 Dec 2023 14:38

Instrument :

MSVOA_U

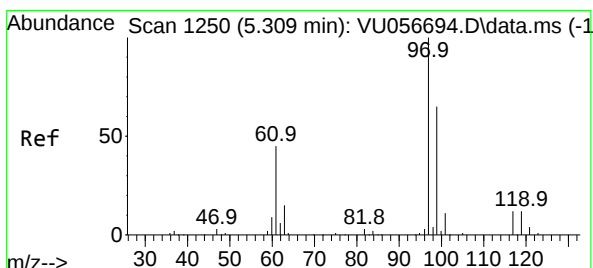
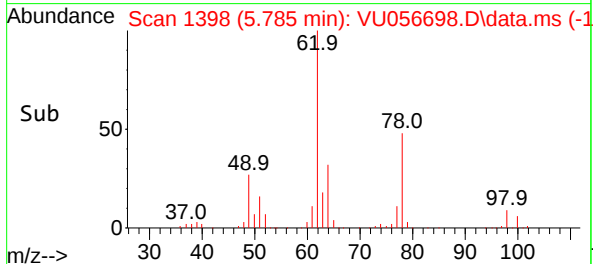
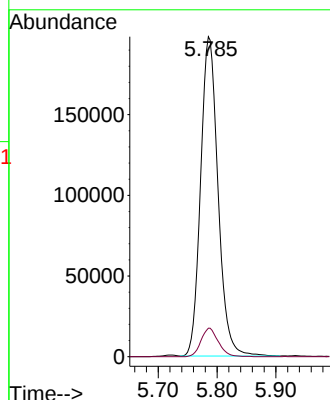
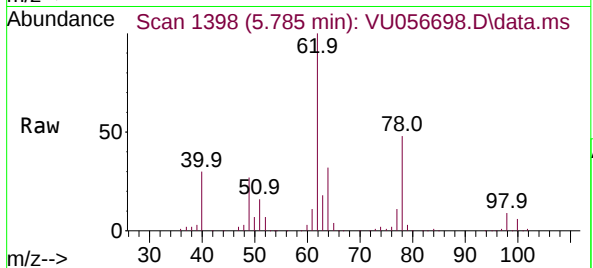
ClientSampleId :

Tgt Ion: 62 Resp: 407234

Ion Ratio Lower Upper

62 100

98 8.9 6.6 10.0



#29

1,1,1-Trichloroethane

Concen: 3.842 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. 0.000 min

Lab File: VU056698.D

Acq: 08 Dec 2023 14:38

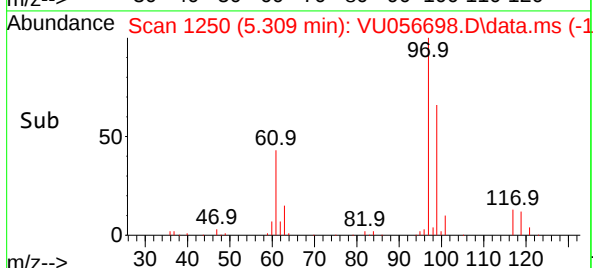
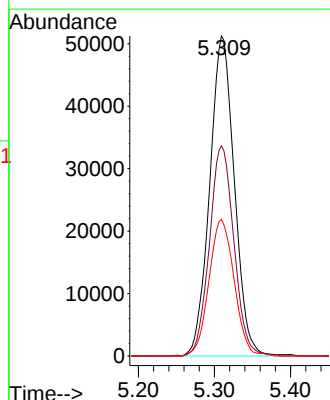
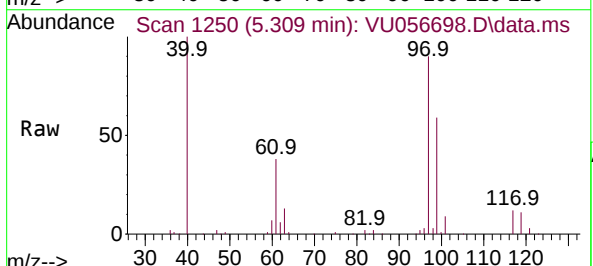
Tgt Ion: 97 Resp: 115327

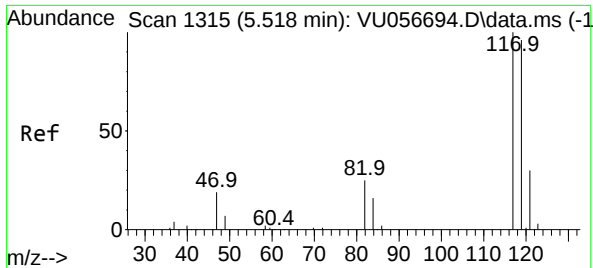
Ion Ratio Lower Upper

97 100

99 65.3 51.6 77.4

61 43.7 34.3 51.5

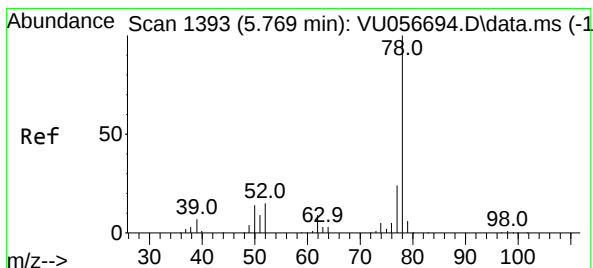
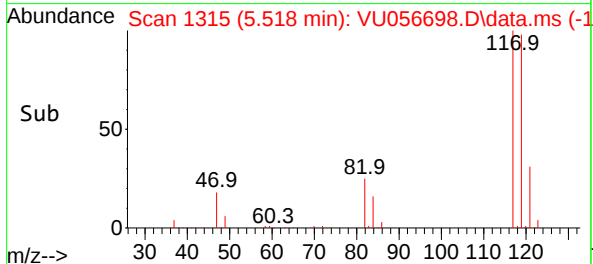
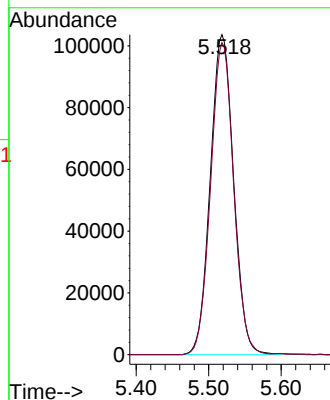
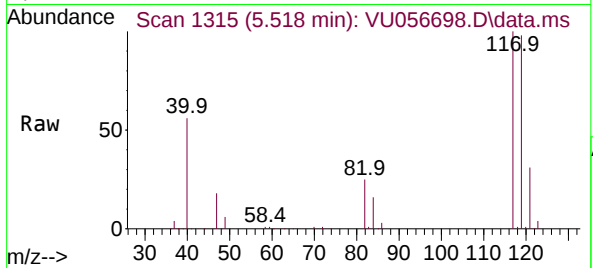




#31
Carbon tetrachloride
Concen: 8.986 ug/L
RT: 5.518 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VU056698.D
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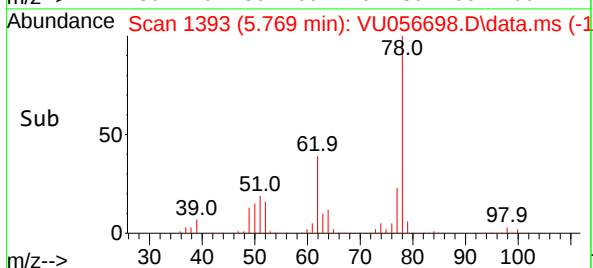
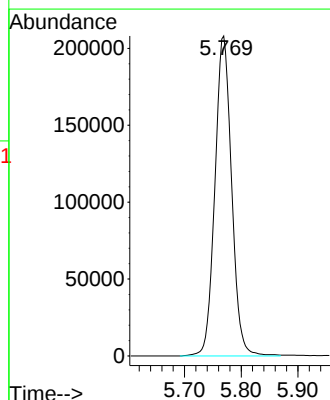
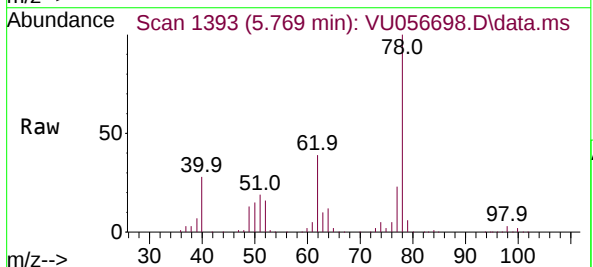
Instrument :
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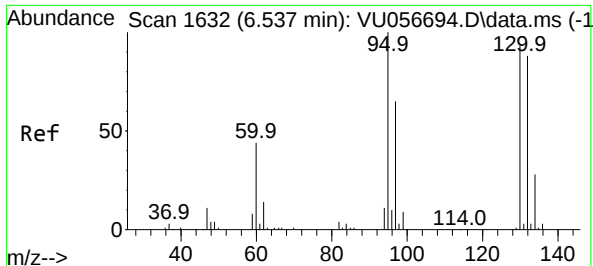
Tgt Ion:117 Resp: 231713
Ion Ratio Lower Upper
117 100
119 96.0 78.1 117.1



#33
Benzene
Concen: 5.714 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.000 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

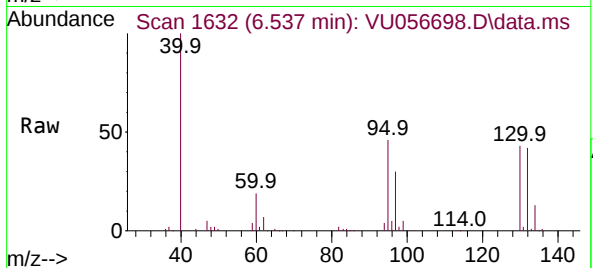
Tgt Ion: 78 Resp: 426405



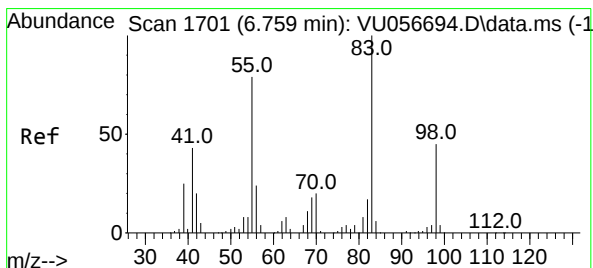
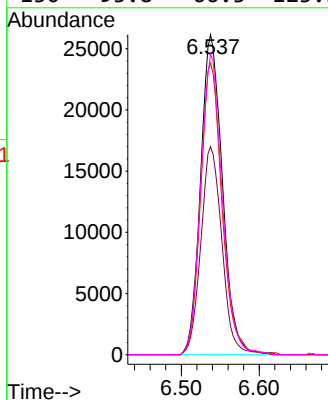
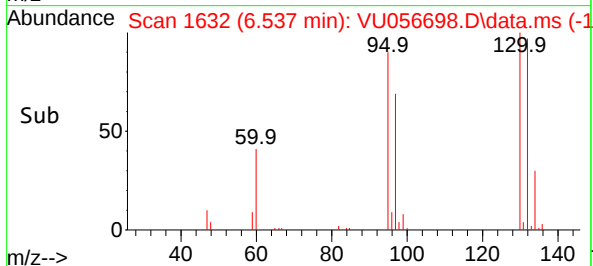


#34
Trichloroethene
Concen: 2.497 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

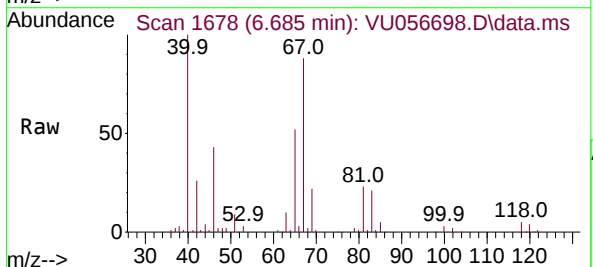
Instrument :
MSVOA_U
ClientSampleId :



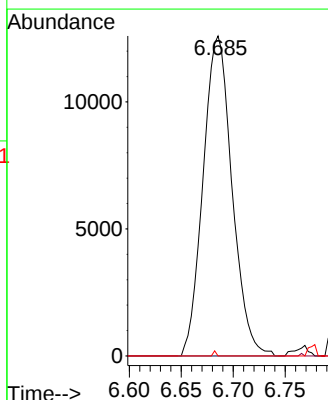
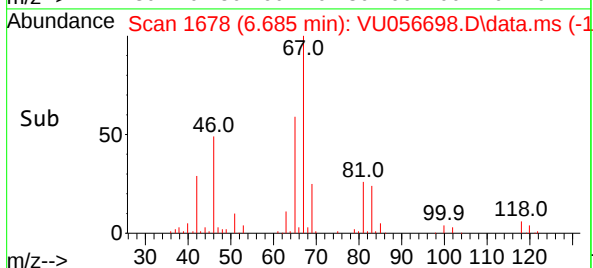
Tgt Ion: 95 Resp: 50780
Ion Ratio Lower Upper
95 100
97 65.0 46.5 86.3
132 91.2 62.0 115.2
130 93.8 66.3 123.1

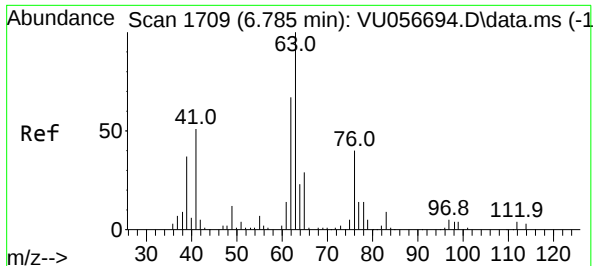


#35
Methylcyclohexane
Concen: 0.833 ug/L
RT: 6.685 min Scan# 1678
Delta R.T. -0.074 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38



Tgt Ion: 83 Resp: 24439
Ion Ratio Lower Upper
83 100
55 0.1 62.9 94.3#
98 0.9 35.3 52.9#





#37

1,2-Dichloropropane

Concen: 11.682 ug/L

RT: 6.785 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU056698.D

Acq: 08 Dec 2023 14:38

Instrument :

MSVOA_U

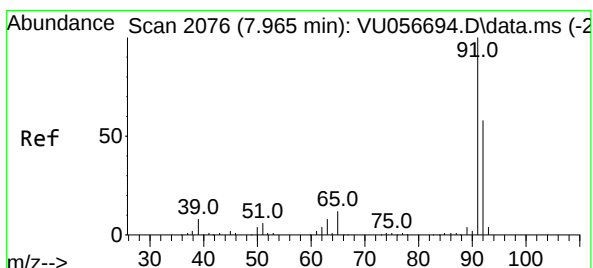
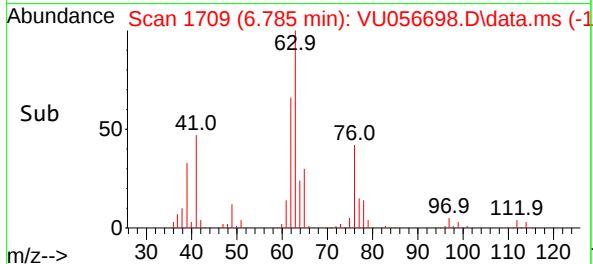
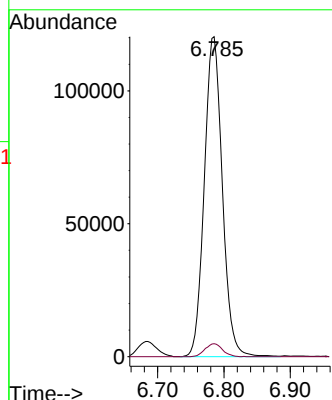
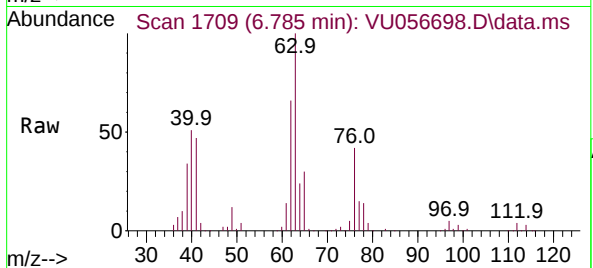
ClientSampleId :

Tgt Ion: 63 Resp: 227337

Ion Ratio Lower Upper

63 100

112 3.9 3.2 4.8



#42

Toluene

Concen: 3.808 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU056698.D

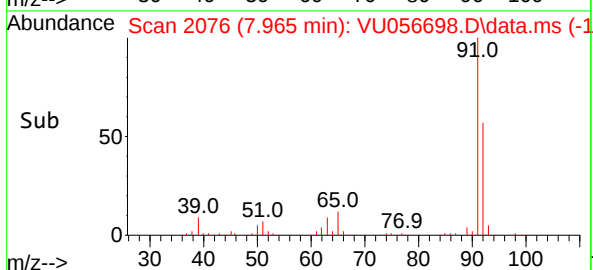
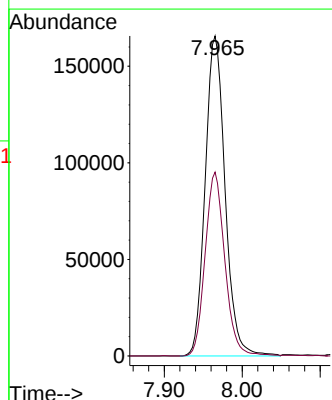
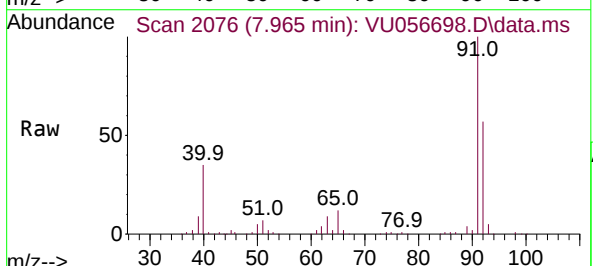
Acq: 08 Dec 2023 14:38

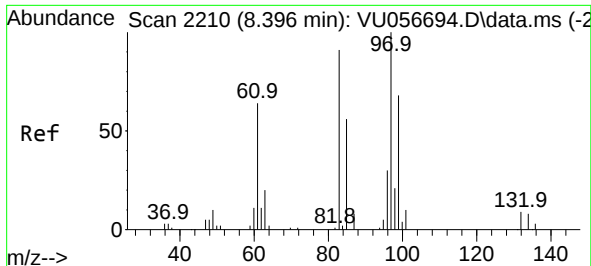
Tgt Ion: 91 Resp: 294171

Ion Ratio Lower Upper

91 100

92 57.5 40.6 75.4



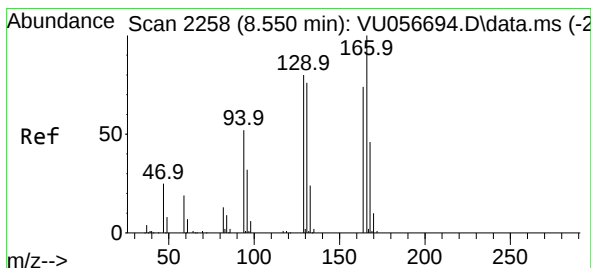
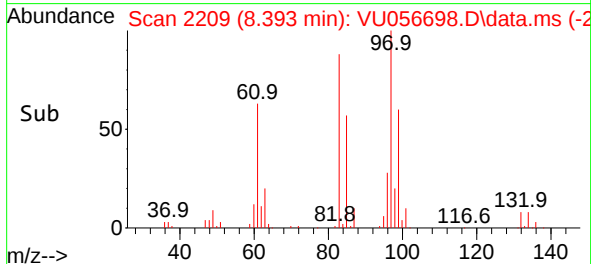
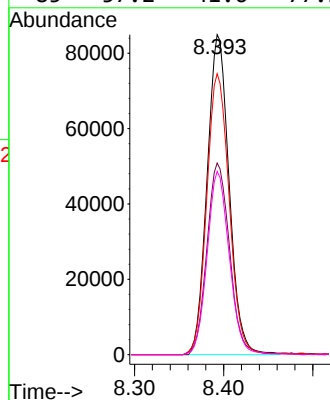
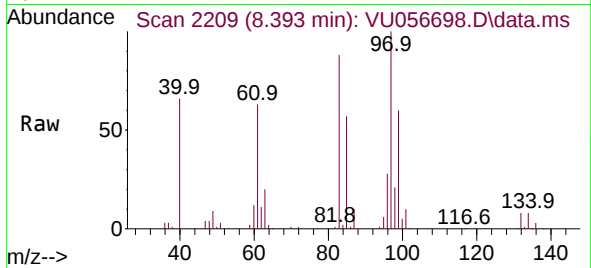


#45
1,1,2-Trichloroethane
Concen: 11.227 ug/L
RT: 8.393 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 97 Resp: 145511

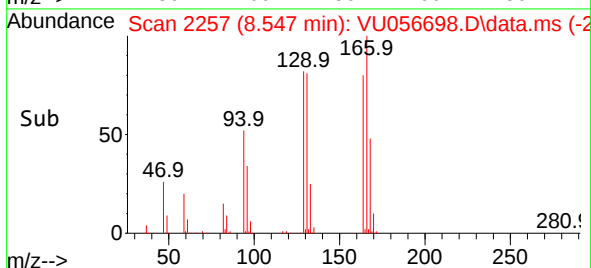
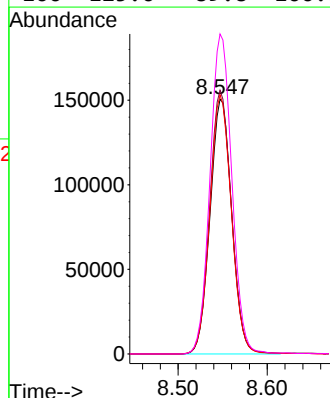
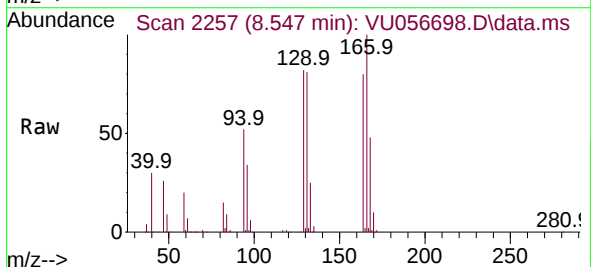
Ion	Ratio	Lower	Upper
97	100		
99	59.9	44.3	82.3
83	87.8	65.4	121.4
85	57.2	41.6	77.3

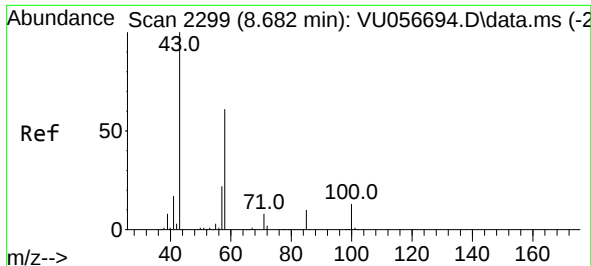


#47
Tetrachloroethene
Concen: 18.592 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion: 164 Resp: 254903

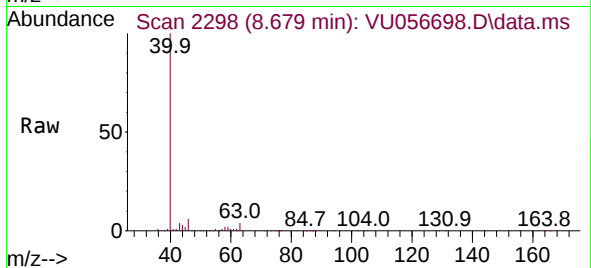
Ion	Ratio	Lower	Upper
164	100		
129	103.5	71.0	131.9
131	101.7	70.3	130.7
166	125.6	89.8	166.8



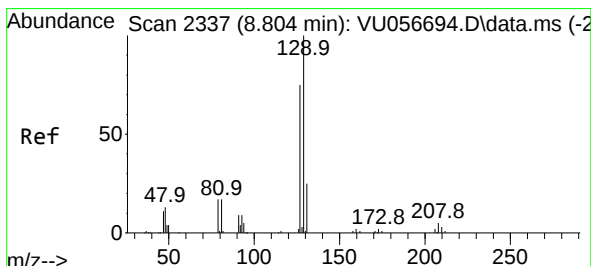
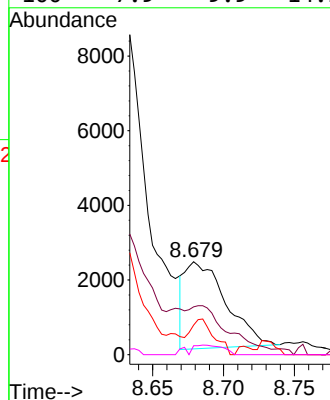
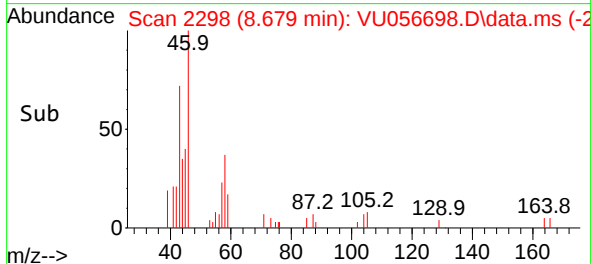


#48
2-Hexanone
Concen: 0.628 ug/L
RT: 8.679 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Instrument :
MSVOA_U
ClientSampleId :

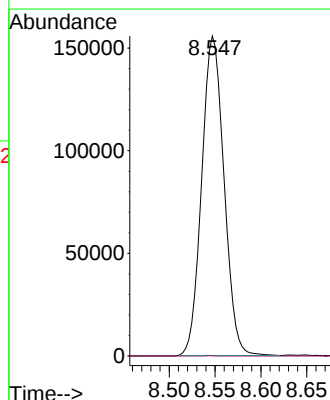
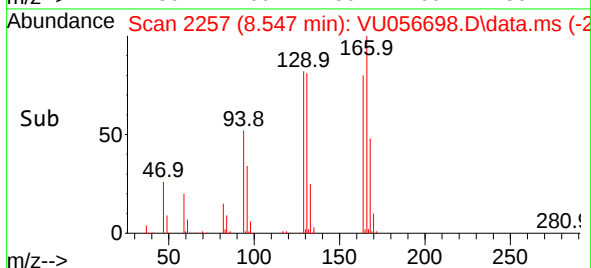
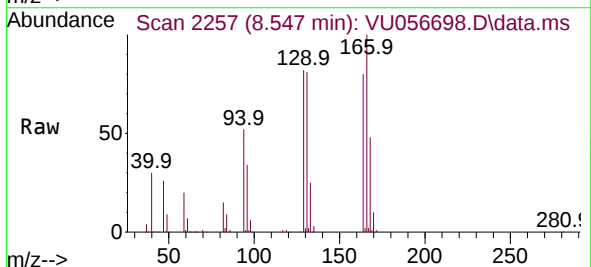


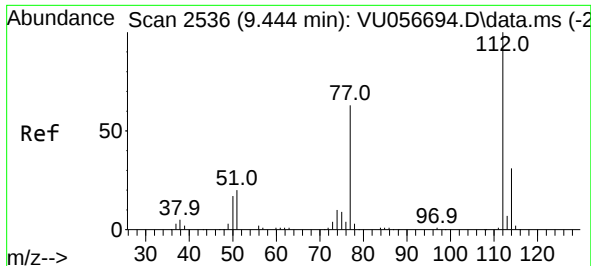
Tgt Ion: 43 Resp: 4717
Ion Ratio Lower Upper
43 100
58 51.9 48.7 73.1
57 23.0 16.8 25.2
100 7.9 9.9 14.9#



#49
Dibromochloromethane
Concen: 17.830 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion: 129 Resp: 262781
Ion Ratio Lower Upper
129 100
127 0.1 52.9 98.3#

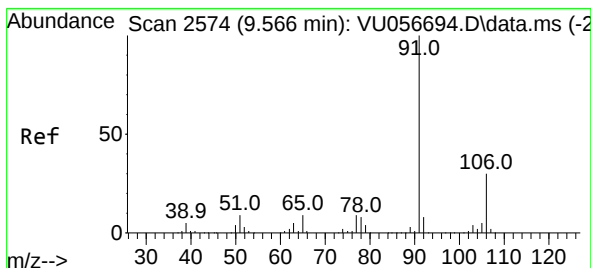
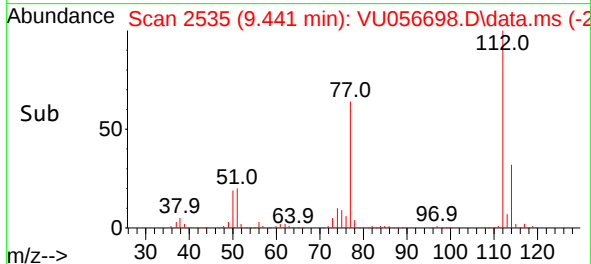
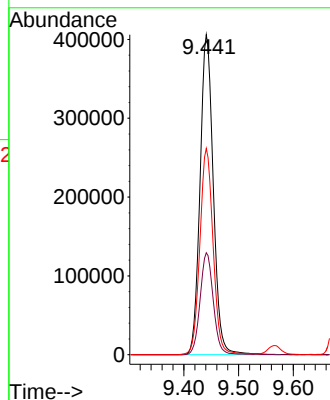
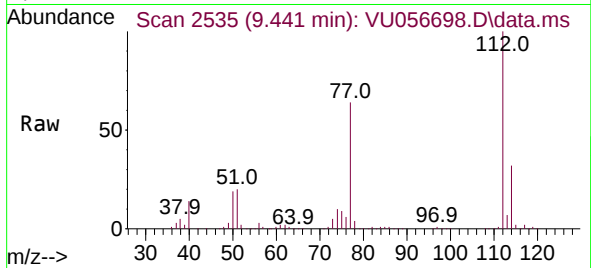




#51
Chlorobenzene
Concen: 13.729 ug/L
RT: 9.441 min Scan# 2536
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

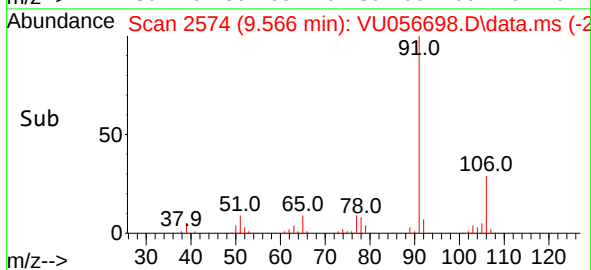
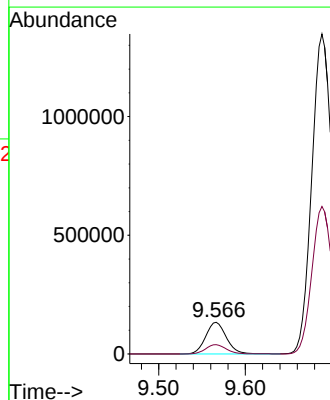
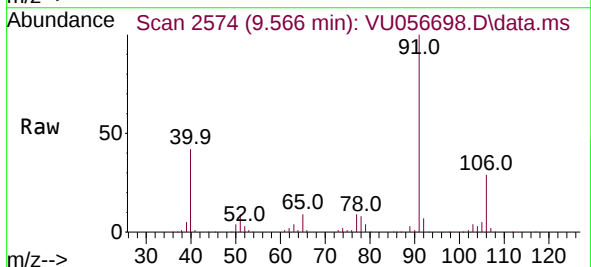
Instrument :
MSVOA_U
ClientSampleId :

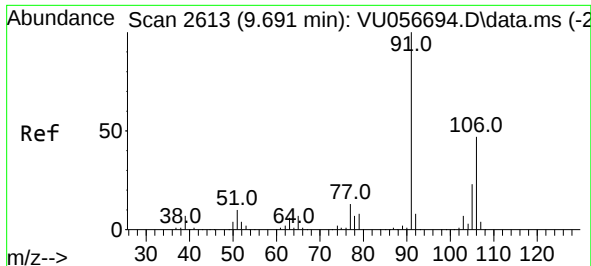
Tgt Ion:112 Resp: 681549
Ion Ratio Lower Upper
112 100
114 31.9 22.5 41.7
77 64.5 51.7 77.5



#52
Ethylbenzene
Concen: 2.590 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion: 91 Resp: 222240
Ion Ratio Lower Upper
91 100
106 29.4 21.1 39.1

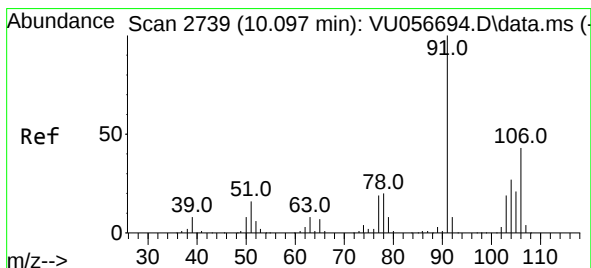
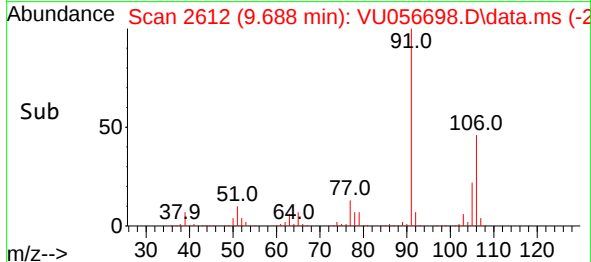
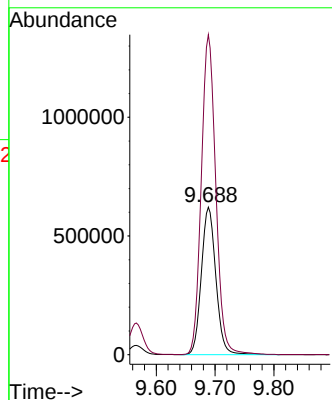
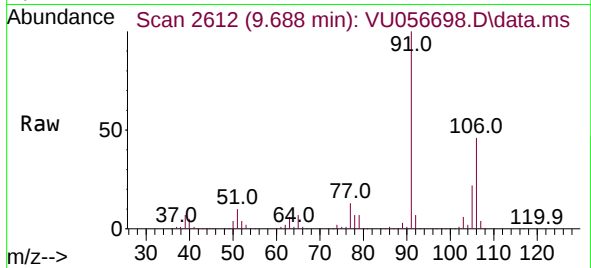




#53
m,p-Xylene
Concen: 33.674 ug/L
RT: 9.688 min Scan# 2613
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

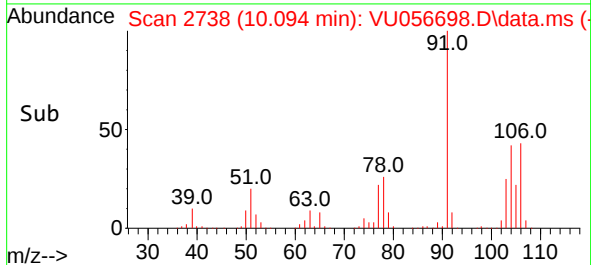
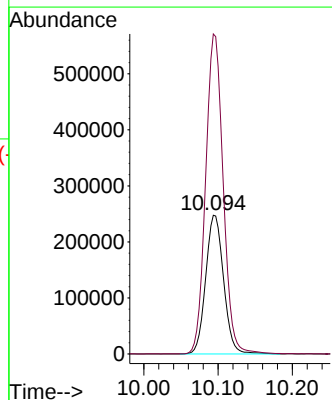
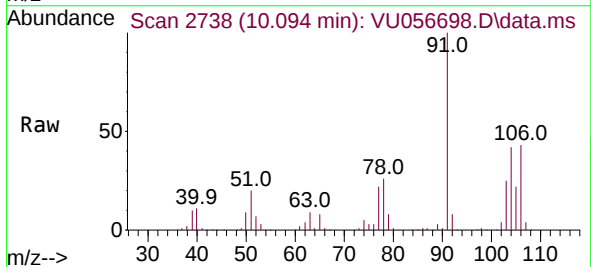
Instrument :
MSVOA_U
ClientSampleId :

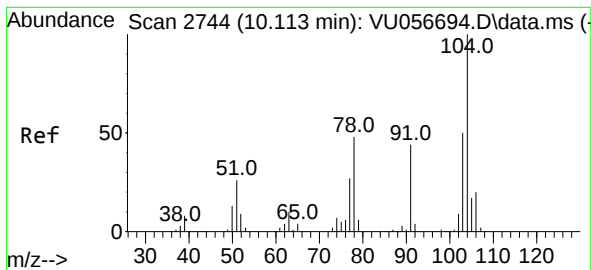
Tgt Ion:106 Resp: 1062063
Ion Ratio Lower Upper
106 100
91 217.0 149.6 277.8



#54
o-Xylene
Concen: 13.494 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion:106 Resp: 413406
Ion Ratio Lower Upper
106 100
91 230.7 159.3 295.9





#55

Styrene

Concen: 24.234 ug/L

RT: 10.110 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU056698.D

Acq: 08 Dec 2023 14:38

Instrument :

MSVOA_U

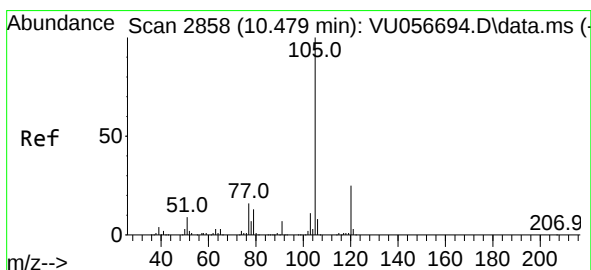
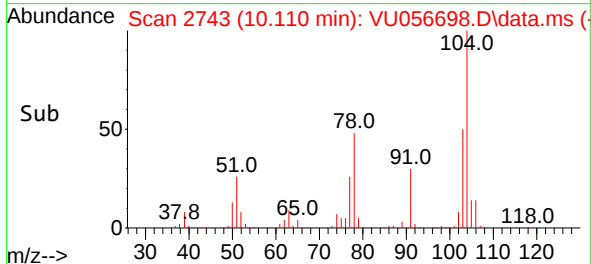
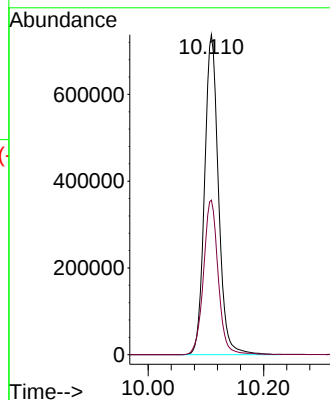
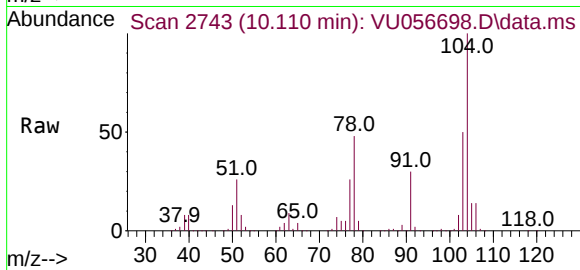
ClientSampleId :

Tgt Ion:104 Resp: 1235002

Ion Ratio Lower Upper

104 100

78 48.3 34.2 63.6



#60

Isopropylbenzene

Concen: 3.534 ug/L

RT: 10.100 min Scan# 2740

Delta R.T. -0.379 min

Lab File: VU056698.D

Acq: 08 Dec 2023 14:38

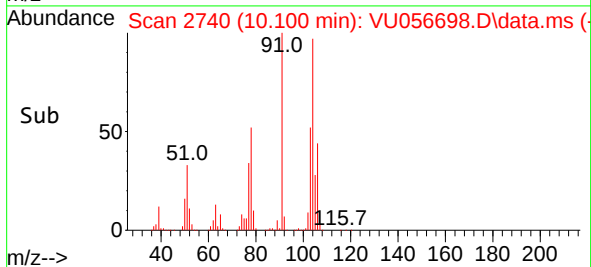
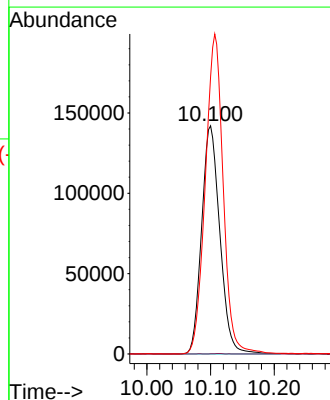
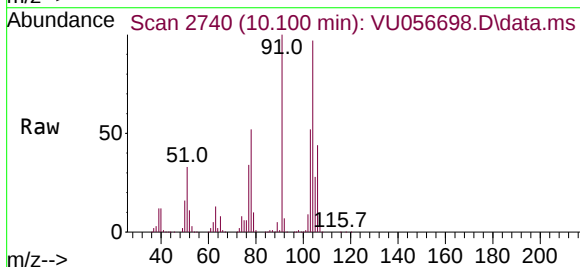
Tgt Ion:105 Resp: 282597

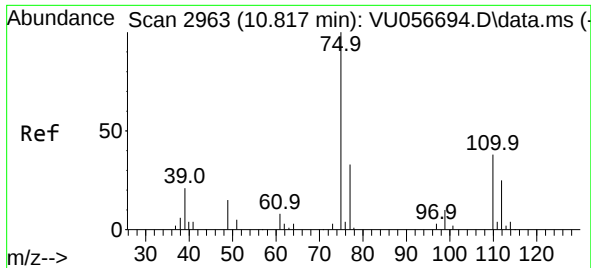
Ion Ratio Lower Upper

105 100

120 0.1 20.4 30.6#

77 137.6 13.3 19.9#

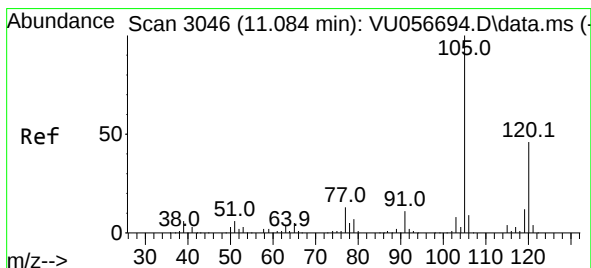
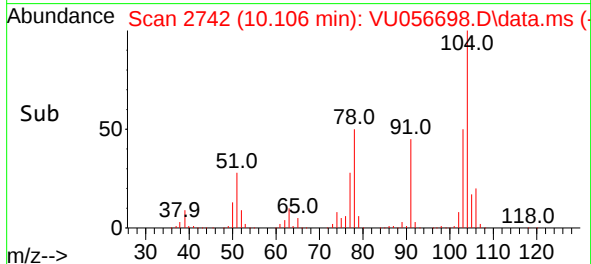
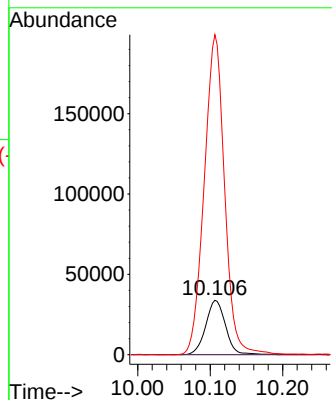
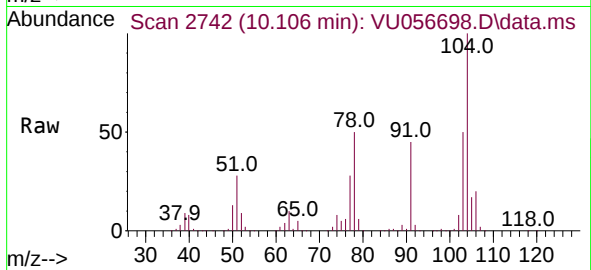




#61
1,2,3-Trichloropropane
Concen: 6.044 ug/L
RT: 10.106 min Scan# 21
Delta R.T. -0.710 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

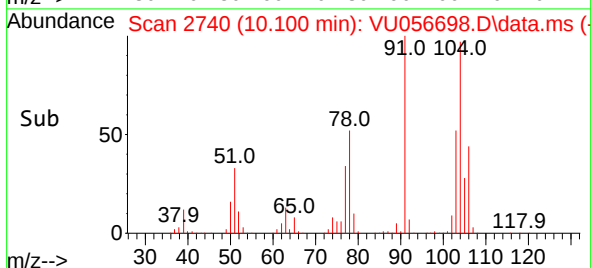
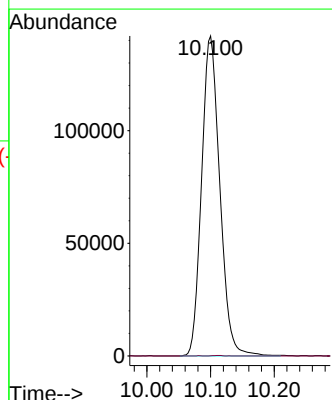
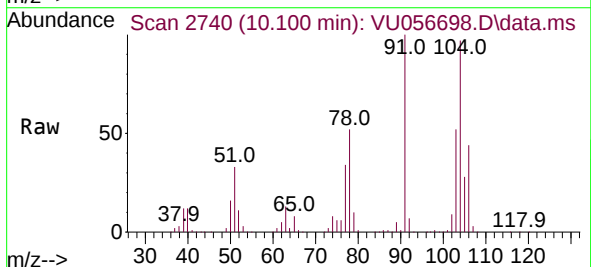
Instrument :
MSVOA_U
ClientSampleId :

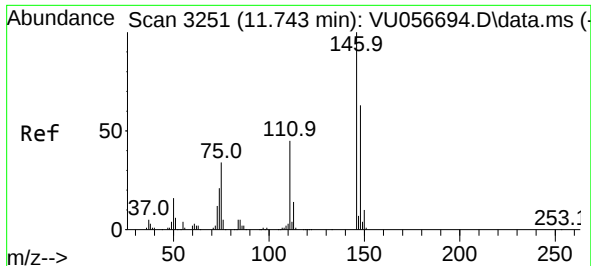
Tgt Ion: 75 Resp: 64297
Ion Ratio Lower Upper
75 100
110 0.0 30.4 45.6#
77 604.8 27.0 40.6#



#62
1,3,5-Trimethylbenzene
Concen: 4.304 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.984 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion: 105 Resp: 282597
Ion Ratio Lower Upper
105 100
120 0.1 37.2 55.8#

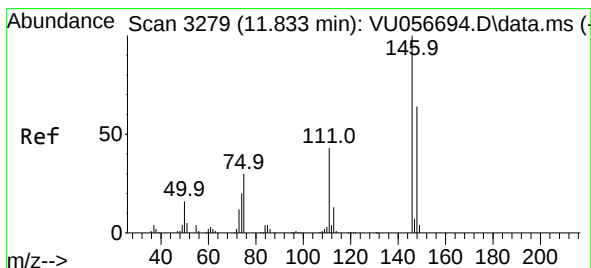
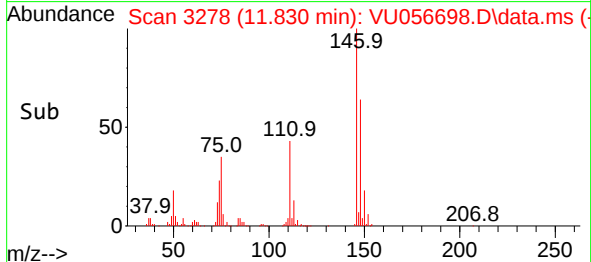
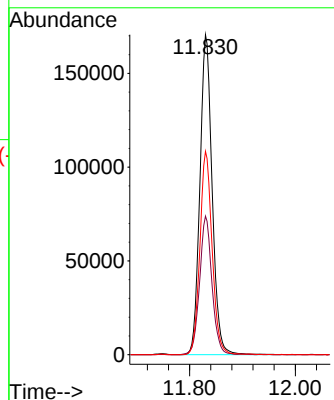
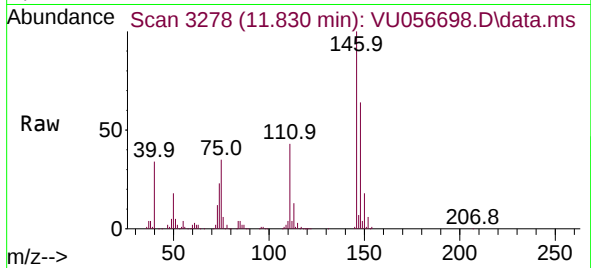




#64
1,3-Dichlorobenzene
Concen: 7.529 ug/L
RT: 11.830 min Scan# 31
Delta R.T. 0.087 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

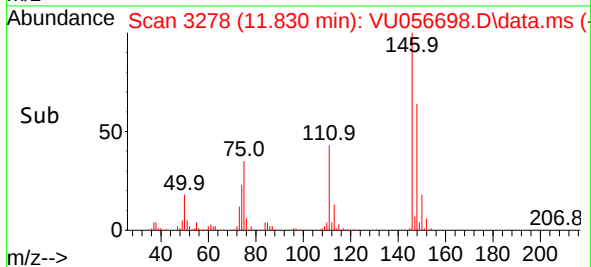
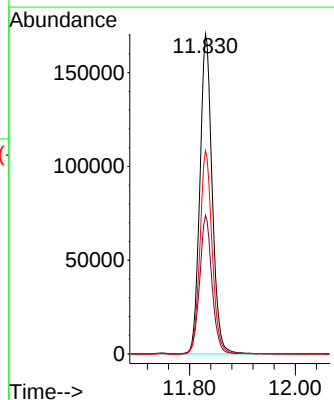
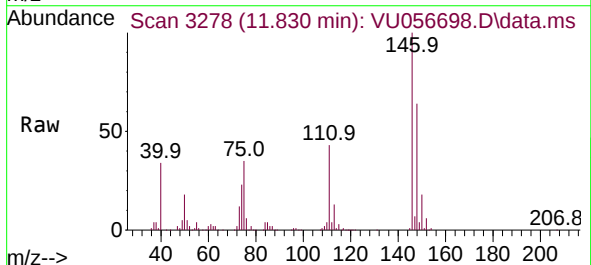
Instrument :
MSVOA_U
ClientSampleId :

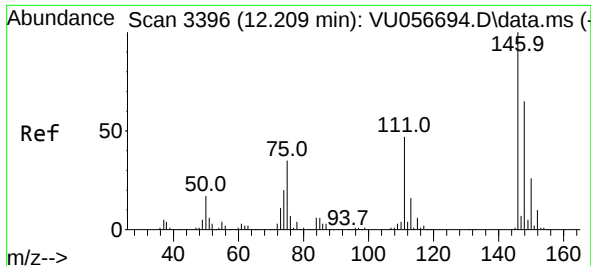
Tgt Ion:146 Resp: 273847
Ion Ratio Lower Upper
146 100
111 43.3 31.1 57.7
148 63.5 45.1 83.9



#65
1,4-Dichlorobenzene
Concen: 7.506 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

Tgt Ion:146 Resp: 273847
Ion Ratio Lower Upper
146 100
111 43.3 30.5 56.7
148 63.5 44.8 83.2

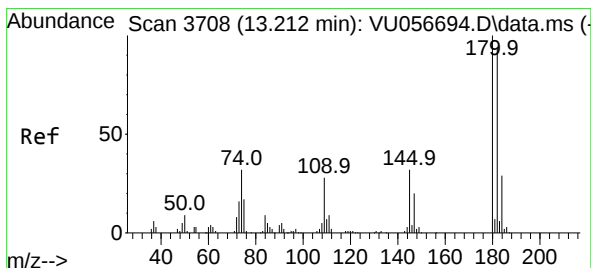
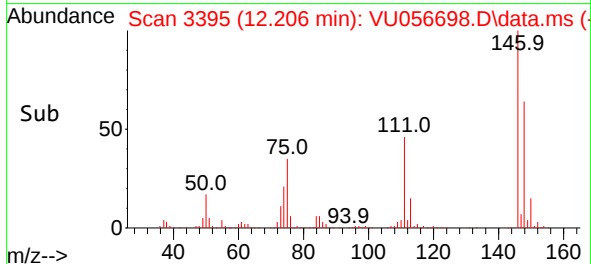
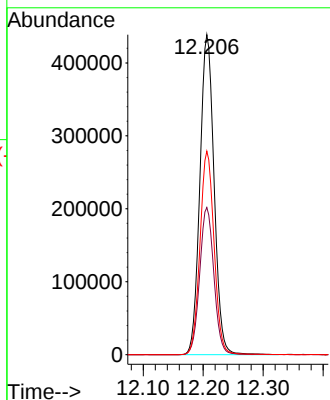
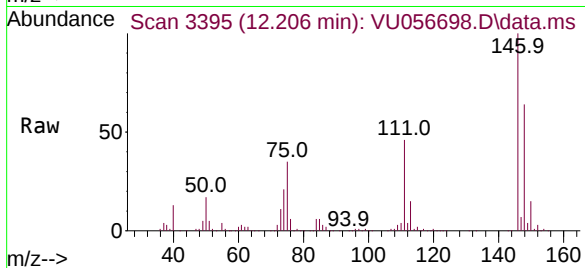




#67
1,2-Dichlorobenzene
Concen: 21.680 ug/L
RT: 12.206 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

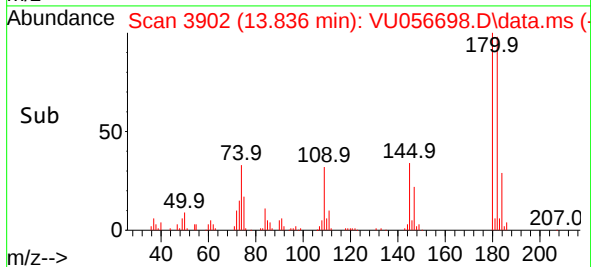
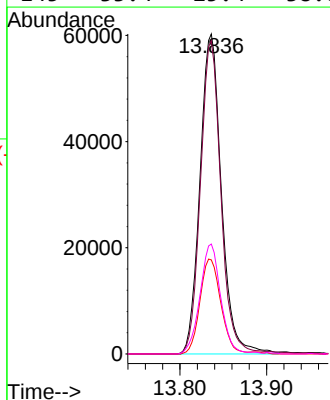
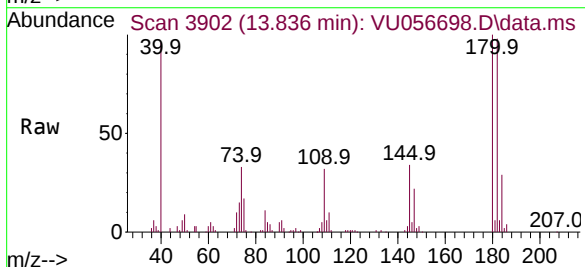
Instrument :
MSVOA_U
ClientSampleId :

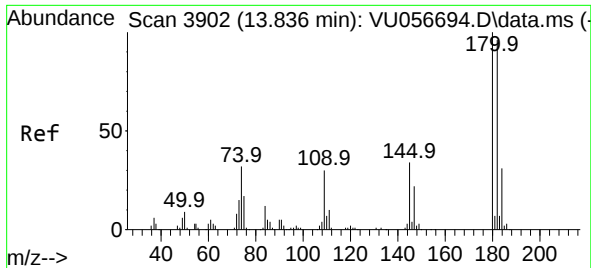
Tgt Ion:146 Resp: 723473
Ion Ratio Lower Upper
146 100
111 46.0 38.3 57.5
148 63.6 52.2 78.4



#69
1,3,5-Trichlorobenzene
Concen: 3.779 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.624 min
Lab File: VU056698.D
Acq: 08 Dec 2023 14:38

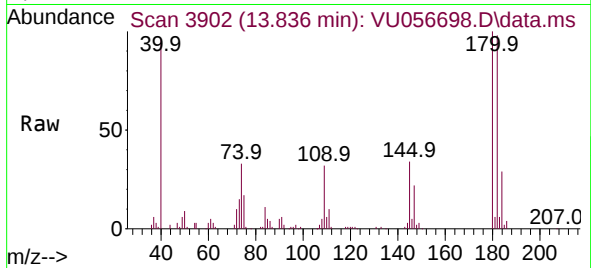
Tgt Ion:180 Resp: 103494
Ion Ratio Lower Upper
180 100
182 93.5 75.1 112.7
184 29.0 23.5 35.3
145 33.4 25.4 38.0





#70
 1,2,4-trichlorobenzene
 Concen: 4.642 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. 0.000 min
 Lab File: VU056698.D
 Acq: 08 Dec 2023 14:38

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 103548
 Ion Ratio Lower Upper
 180 100
 182 93.5 75.4 113.2
 145 33.4 26.8 40.2

