

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011525\
 Data File : VU062796.D
 Acq On : 16 Jan 2025 04:06
 Operator : MD/SY
 Sample : Q1084-04
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 16 04:44:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jan 16 01:55:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	91666	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	86680	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	43540	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	14685	2.893	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.800%
7) Chloroethane-d5	1.901	69	15331	3.754	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.000%
11) 1,1-Dichloroethene-d2	2.557	65	8711	3.312	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.200%
20) 2-Butanone-d5	4.605	46	64197	61.870	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.740%
24) Chloroform-d	5.049	84	61013	4.885	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.600%
26) 1,2-Dichloroethane-d4	5.689	65	35078	5.178	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.600%
32) Benzene-d6	5.714	84	93275	4.402	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
36) 1,2-Dichloropropane-d6	6.676	67	28569	4.863	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.888	98	86226	4.177	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.600%
43) trans-1,3-Dichloroprop...	8.171	79	14186	4.844	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.800%
46) 2-Hexanone-d5	8.618	63	52494	56.996	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.000%
56) 1,1,2,2-Tetrachloroeth...	10.743	84	26766	5.440	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.800%
66) 1,2-Dichlorobenzene-d4	12.183	152	36785	5.078	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	2760	0.418	ug/L #	79
10) 1,1,2-Trichloro-1,2,2-...	2.570	101	7988	1.242	ug/L	98
12) 1,1-Dichloroethene	2.570	96	41877	7.359	ug/L	86
16) Methylene chloride	3.033	84	50715	8.136	ug/L	97
17) Methyl tert-butyl Ether	3.351	73	2161	0.138	ug/L #	79
18) trans-1,2-Dichloroethene	3.341	96	1166	0.191	ug/L	78
19) 1,1-Dichloroethane	3.856	63	13816	1.268	ug/L	87
22) cis-1,2-Dichloroethene	4.650	96	154125	23.215	ug/L	99
25) Chloroform	5.074	83	50064	3.732	ug/L	99
29) 1,1,1-Trichloroethane	5.306	97	6595	0.502	ug/L	99
31) Carbon tetrachloride	5.512	117	16394	1.357	ug/L	94
34) Trichloroethene	6.534	95	5646561	663.725	ug/L	98
35) Methylcyclohexane	6.676	83	8703	0.831	ug/L #	22
37) 1,2-Dichloropropane	6.679	63	3840	0.654	ug/L #	85
42) Toluene	7.962	91	13990	0.513	ug/L	97
45) 1,1,2-Trichloroethane	8.389	97	1067	0.224	ug/L	84
47) Tetrachloroethene	8.544	164	143296	24.456	ug/L	96
49) Dibromochloromethane	8.541	129	141379	22.069	ug/L #	12
52) Ethylbenzene	9.560	91	56329	1.819	ug/L	98

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

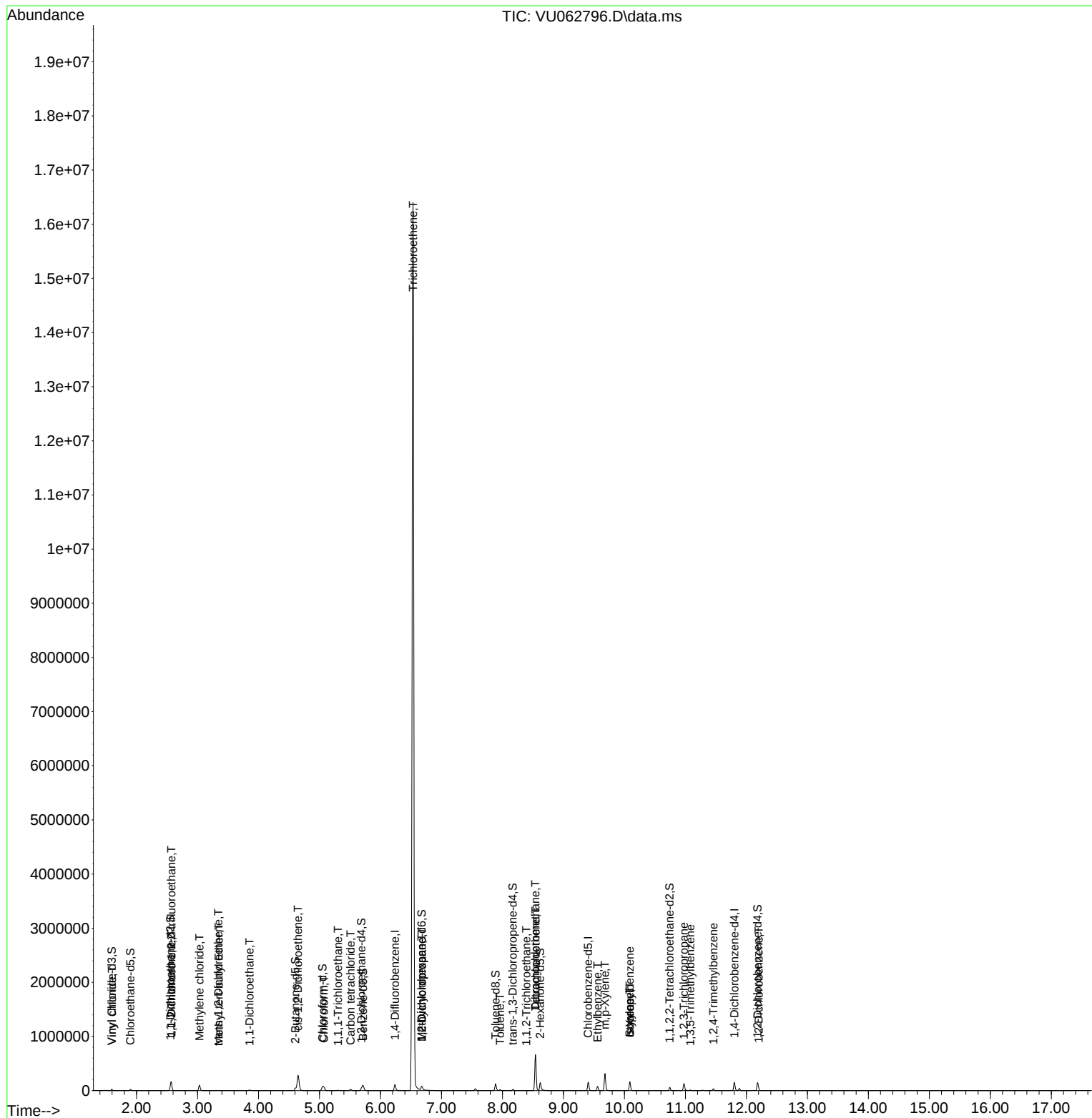
53) m,p-Xylene	9.682	106	86202	7.443	ug/L	99
54) o-Xylene	10.090	106	43858	3.954	ug/L	98
55) Styrene	10.090	104	2545	0.137	ug/L #	1
60) Isopropylbenzene	10.090	105	19157	0.638	ug/L #	25
61) 1,2,3-Trichloropropane	10.975	75	2191	0.567	ug/L #	56
62) 1,3,5-Trimethylbenzene	11.081	105	7397	0.290	ug/L	97
63) 1,2,4-Trimethylbenzene	11.460	105	21495	0.871	ug/L	98
67) 1,2-Dichlorobenzene	12.203	146	7687	0.590	ug/L	94

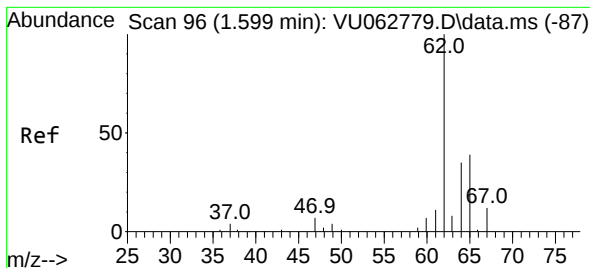
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.418 ug/L

RT: 1.599 min Scan# 96

Delta R.T. -0.000 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

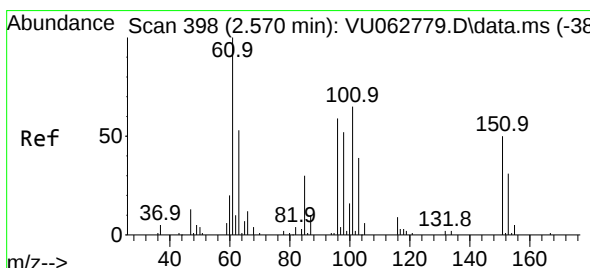
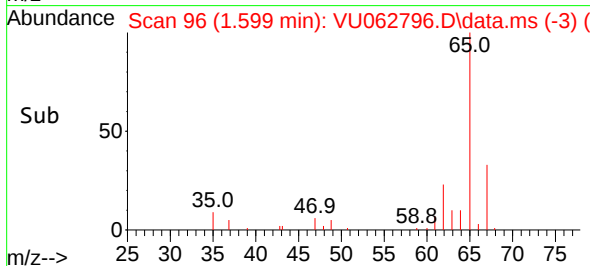
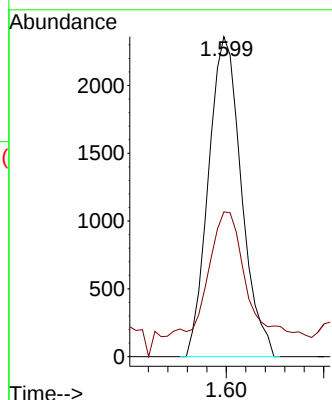
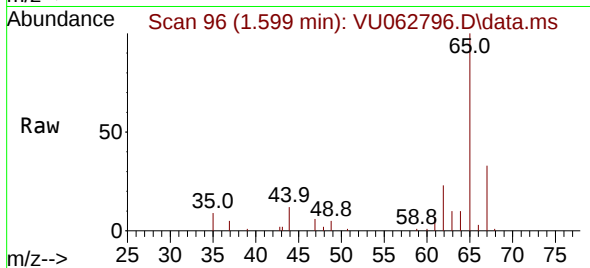
ClientSampleId :

Tgt Ion: 62 Resp: 2760

Ion Ratio Lower Upper

62 100

64 45.3 23.4 43.4#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.242 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.000 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

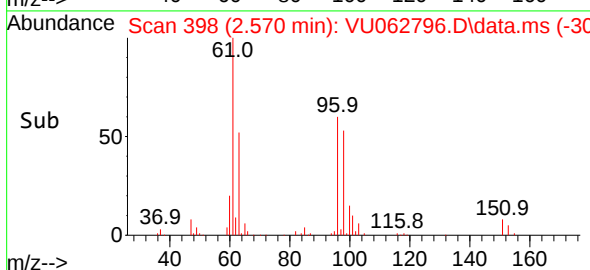
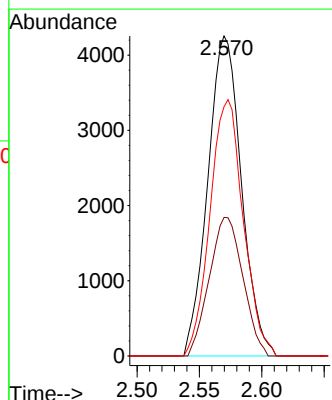
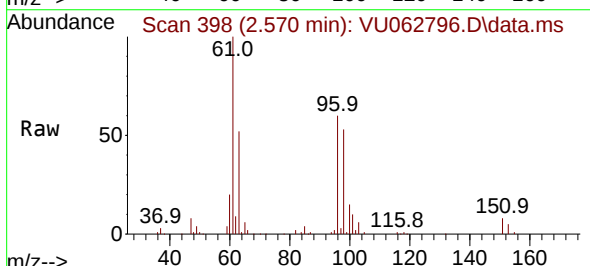
Tgt Ion:101 Resp: 7988

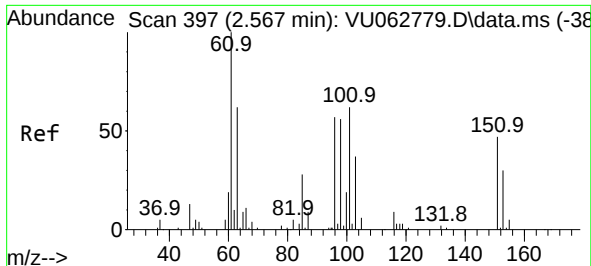
Ion Ratio Lower Upper

101 100

85 43.2 37.0 55.6

151 79.4 64.4 96.6

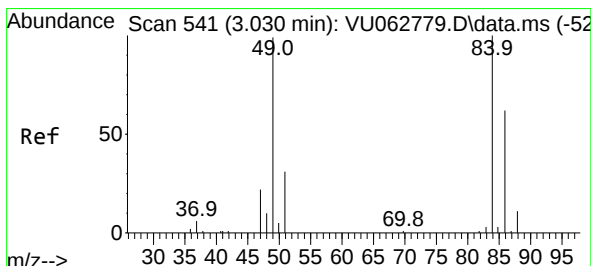
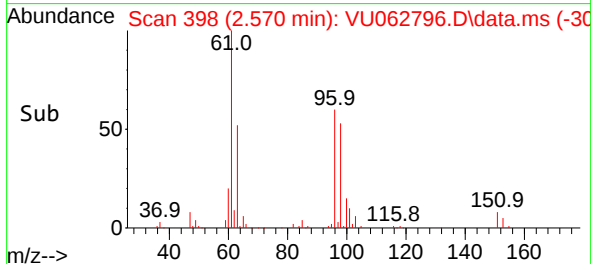
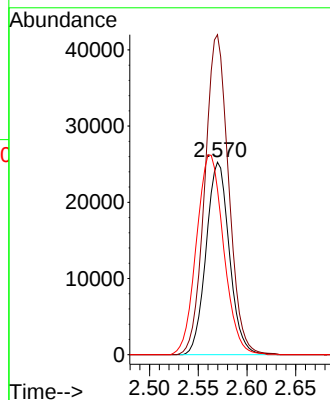
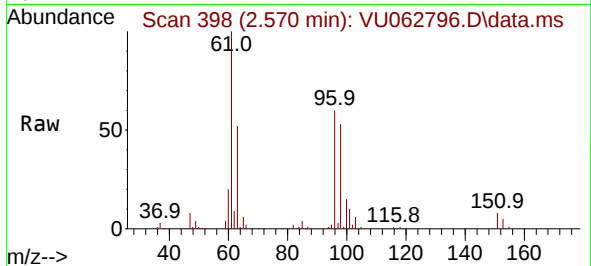




#12
1,1-Dichloroethene
Concen: 7.359 ug/L
RT: 2.570 min Scan# 397
Delta R.T. 0.003 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

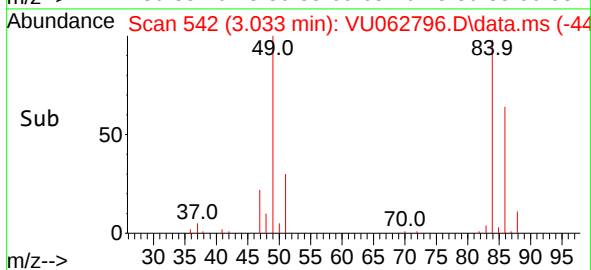
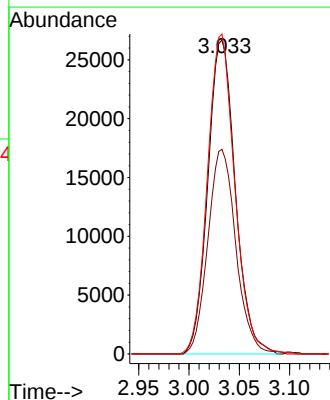
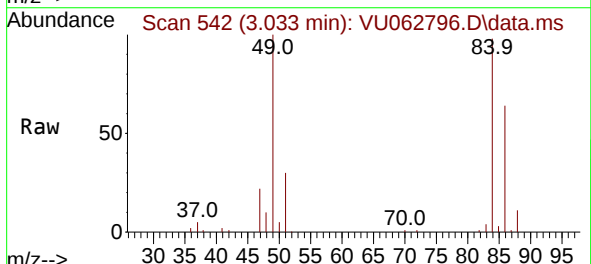
Instrument :
MSVOA_U
ClientSampleId :

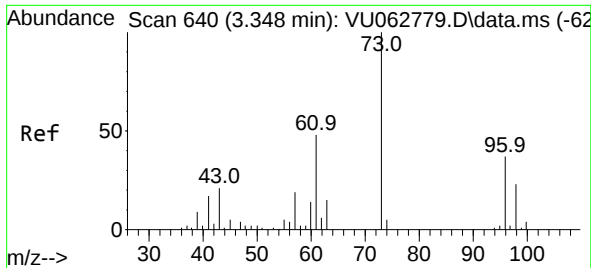
Tgt Ion: 96 Resp: 41877
Ion Ratio Lower Upper
96 100
61 166.3 120.4 223.6
63 85.9 82.3 152.9



#16
Methylene chloride
Concen: 8.136 ug/L
RT: 3.033 min Scan# 542
Delta R.T. 0.003 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

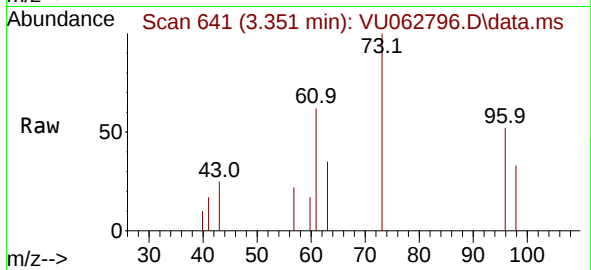
Tgt Ion: 84 Resp: 50715
Ion Ratio Lower Upper
84 100
86 65.2 44.7 83.1
49 101.9 68.3 126.9



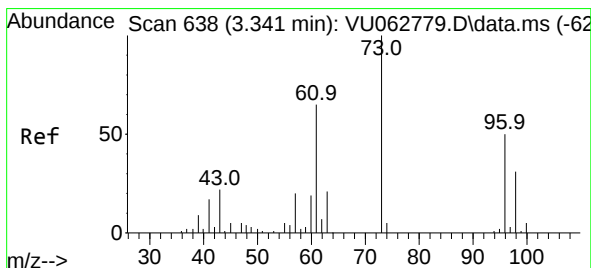
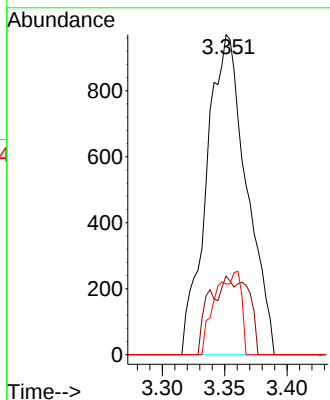
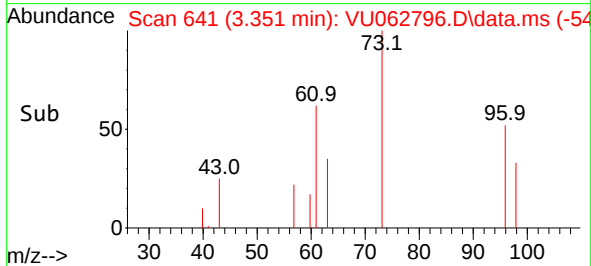


#17
Methyl tert-butyl Ether
Concen: 0.138 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

Instrument :
MSVOA_U
ClientSampleId :

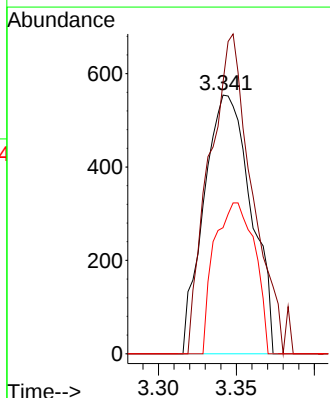
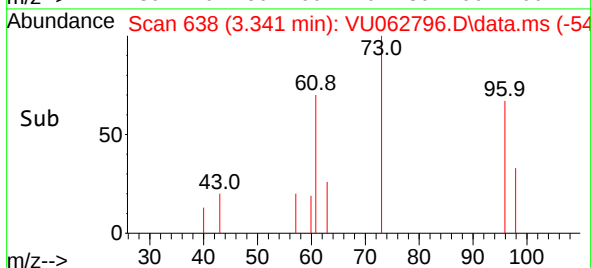
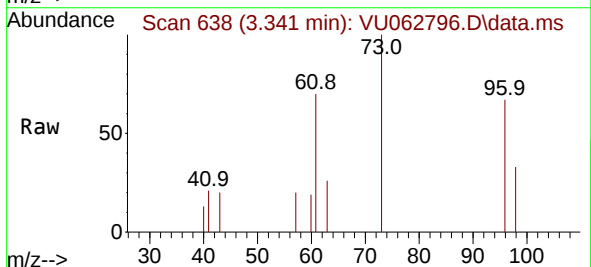


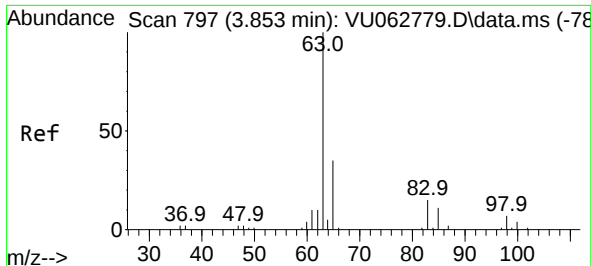
Tgt Ion: 73 Resp: 2161
Ion Ratio Lower Upper
73 100
43 2.6 16.2 24.4#
57 17.1 14.6 22.0



#18
trans-1,2-Dichloroethene
Concen: 0.191 ug/L
RT: 3.341 min Scan# 638
Delta R.T. -0.000 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

Tgt Ion: 96 Resp: 1166
Ion Ratio Lower Upper
96 100
61 104.9 94.4 175.2
98 48.7 42.8 79.4





#19

1,1-Dichloroethane

Concen: 1.268 ug/L

RT: 3.856 min Scan# 79

Delta R.T. 0.003 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

ClientSampleId :

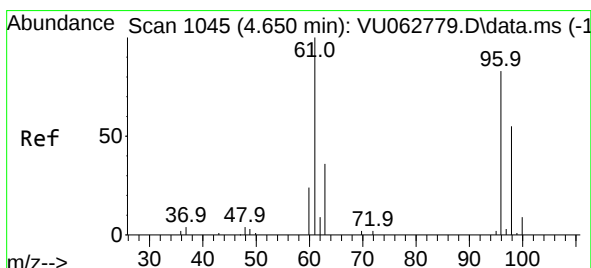
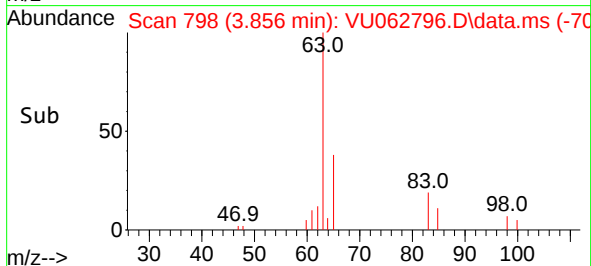
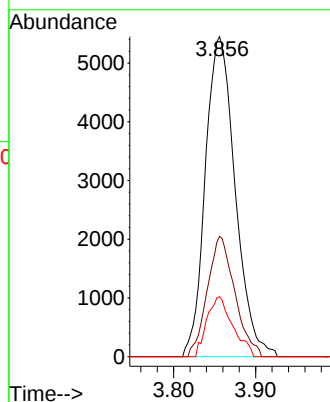
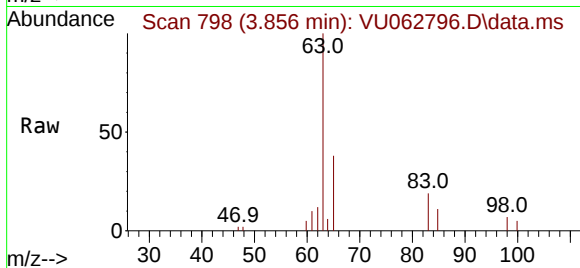
Tgt Ion: 63 Resp: 13816

Ion Ratio Lower Upper

63 100

65 37.6 20.7 38.5

83 18.8 10.5 19.5



#22

cis-1,2-Dichloroethene

Concen: 23.215 ug/L

RT: 4.650 min Scan# 1045

Delta R.T. -0.000 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

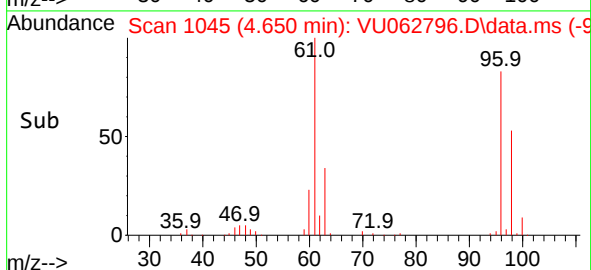
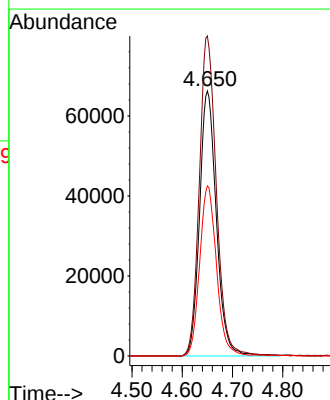
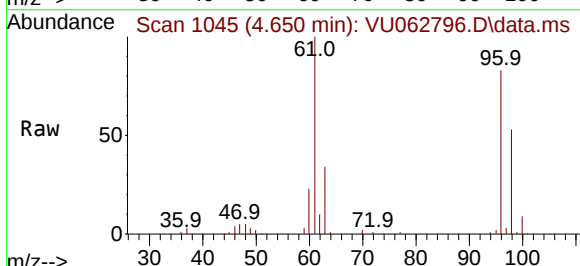
Tgt Ion: 96 Resp: 154125

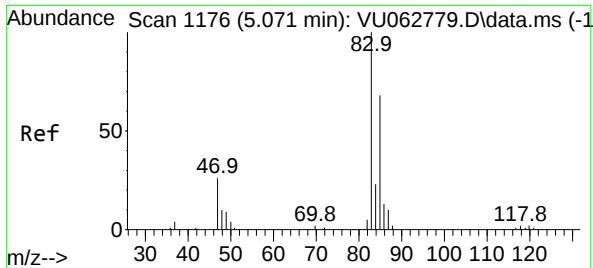
Ion Ratio Lower Upper

96 100

61 120.8 84.8 157.6

98 64.2 43.1 80.1





#25

Chloroform

Concen: 3.732 ug/L

RT: 5.074 min Scan# 1176

Delta R.T. 0.003 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

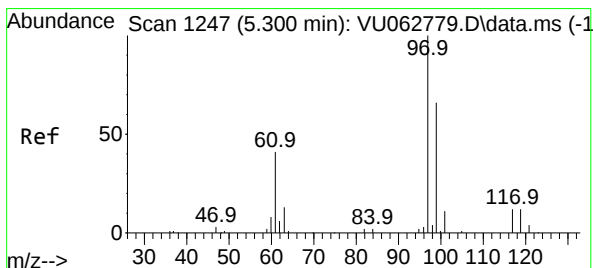
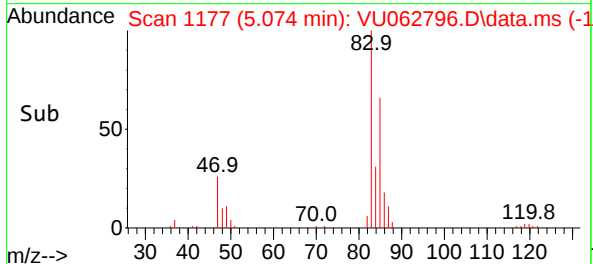
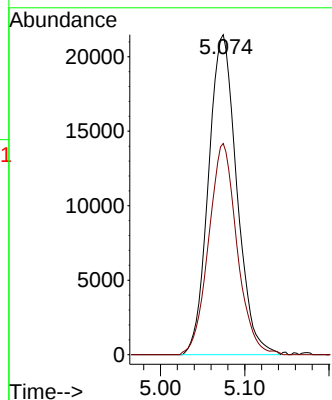
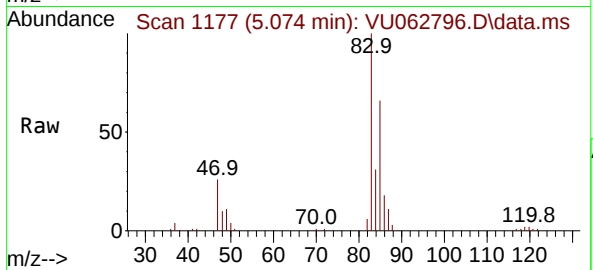
ClientSampleId :

Tgt Ion: 83 Resp: 50064

Ion Ratio Lower Upper

83 100

85 66.0 45.8 85.2



#29

1,1,1-Trichloroethane

Concen: 0.502 ug/L

RT: 5.306 min Scan# 1249

Delta R.T. 0.006 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

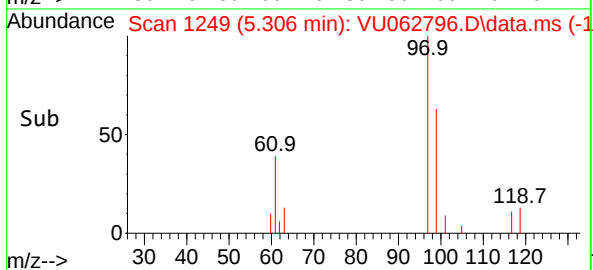
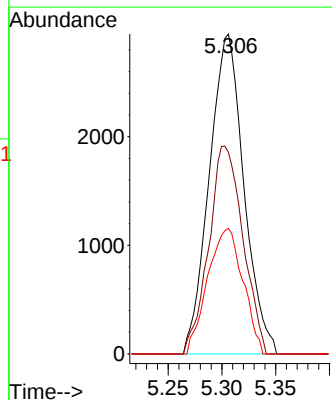
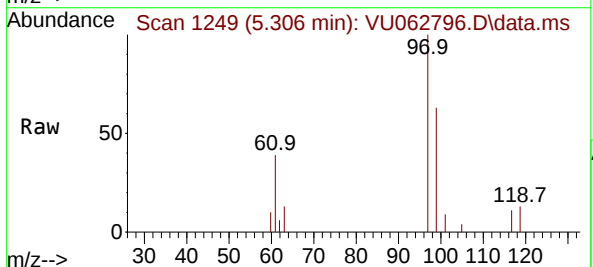
Tgt Ion: 97 Resp: 6595

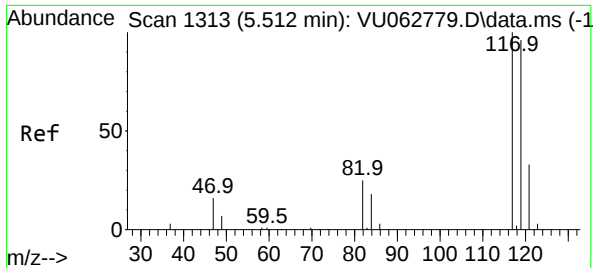
Ion Ratio Lower Upper

97 100

99 64.2 52.4 78.6

61 40.0 32.2 48.4

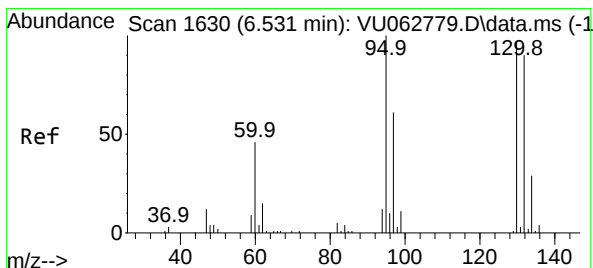
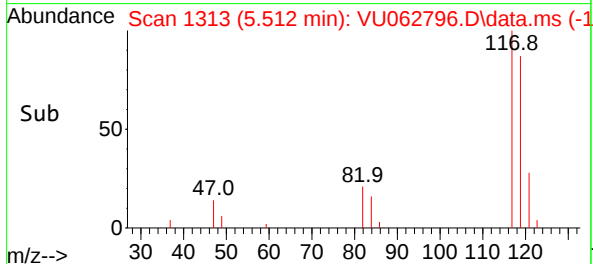
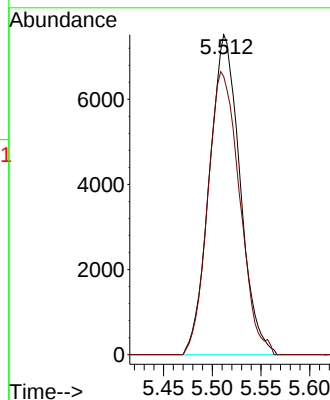
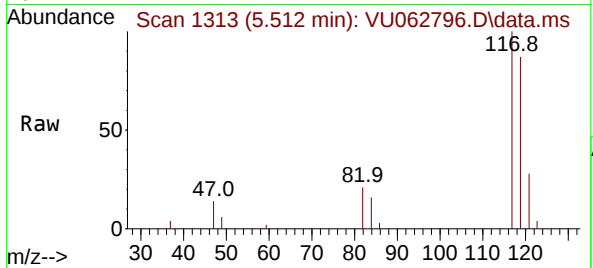




#31
Carbon tetrachloride
Concen: 1.357 ug/L
RT: 5.512 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

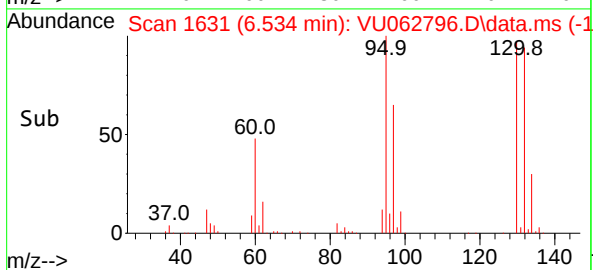
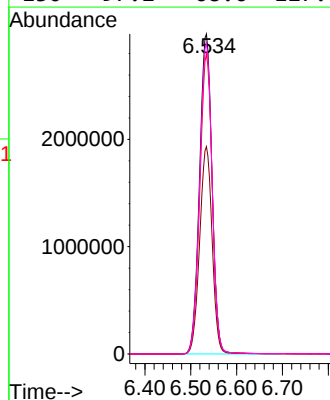
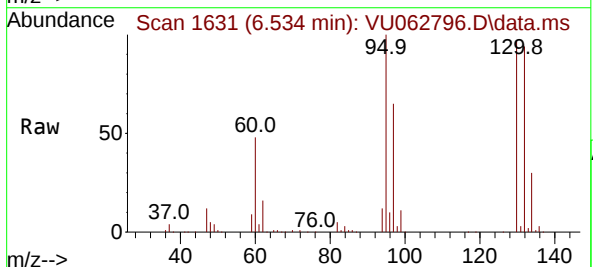
Instrument :
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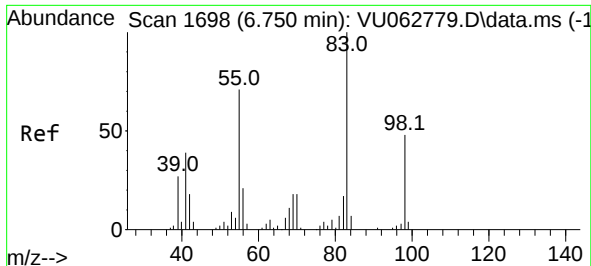
Tgt Ion:117 Resp: 16394
Ion Ratio Lower Upper
117 100
119 92.3 78.6 118.0



#34
Trichloroethene
Concen: 663.725 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.003 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

Tgt Ion: 95 Resp: 5646561
Ion Ratio Lower Upper
95 100
97 64.8 47.5 88.3
132 93.6 66.9 124.3
130 97.2 68.6 127.4

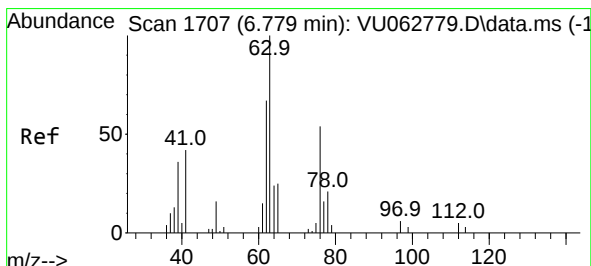
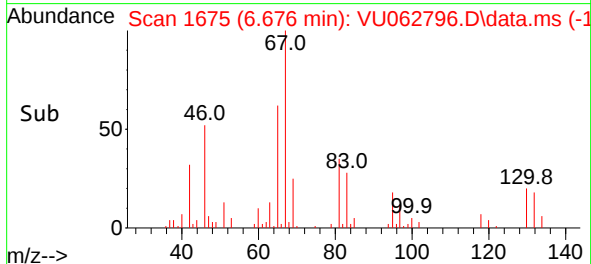
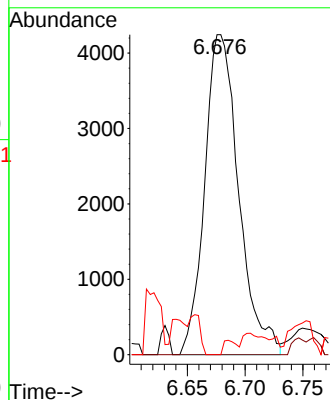
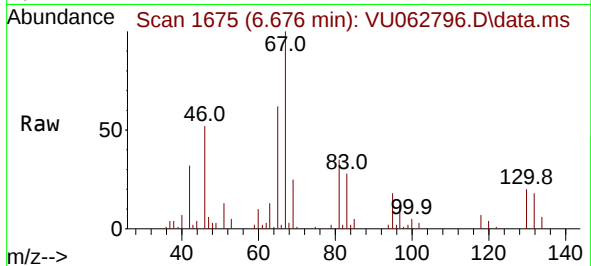




#35
Methylcyclohexane
Concen: 0.831 ug/L
RT: 6.676 min Scan# 1675
Delta R.T. -0.074 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

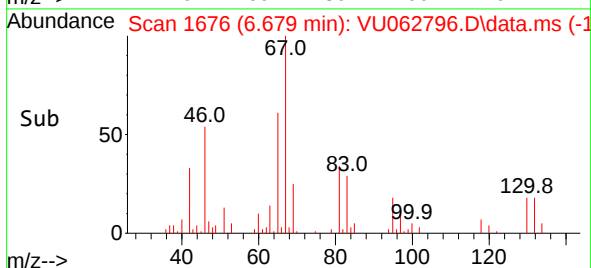
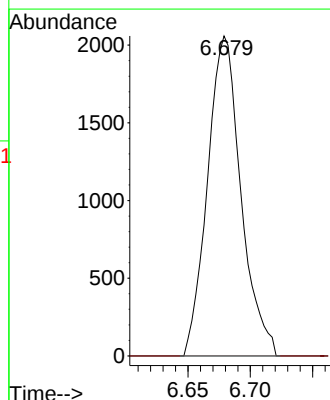
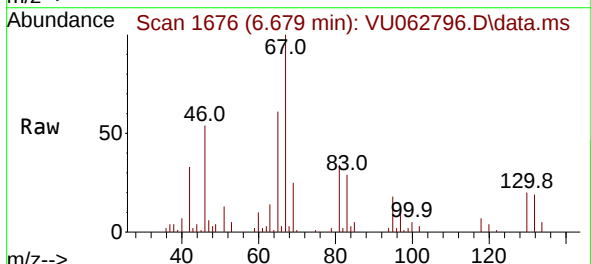
Instrument :
MSVOA_U
ClientSampleId :

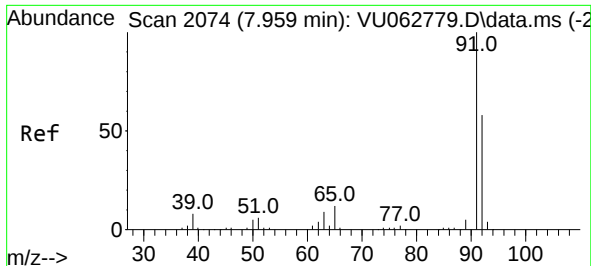
Tgt Ion: 83 Resp: 8703
Ion Ratio Lower Upper
83 100
55 2.1 57.2 85.8#
98 0.0 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.654 ug/L
RT: 6.679 min Scan# 1676
Delta R.T. -0.100 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

Tgt Ion: 63 Resp: 3840
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.8#





#42

Toluene

Concen: 0.513 ug/L

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

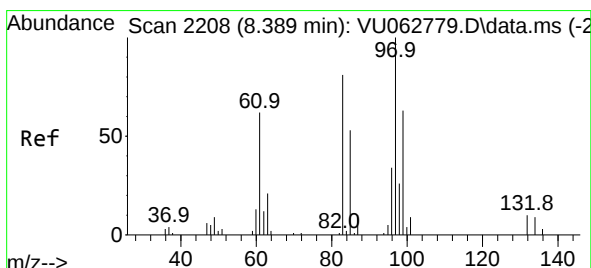
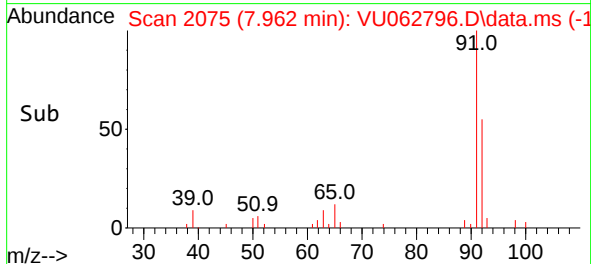
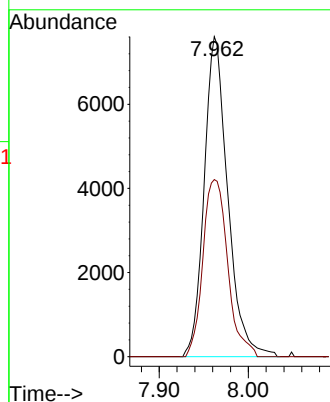
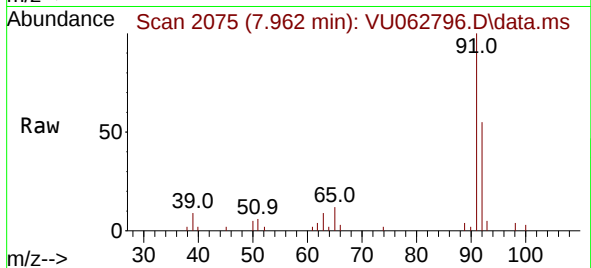
ClientSampleId :

Tgt Ion: 91 Resp: 13990

Ion Ratio Lower Upper

91 100

92 55.4 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 0.224 ug/L

RT: 8.389 min Scan# 2208

Delta R.T. -0.000 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Tgt Ion: 97 Resp: 1067

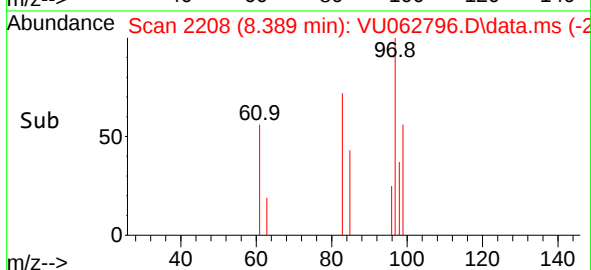
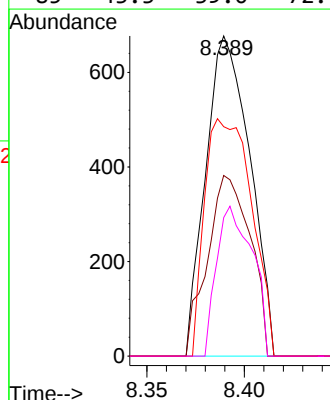
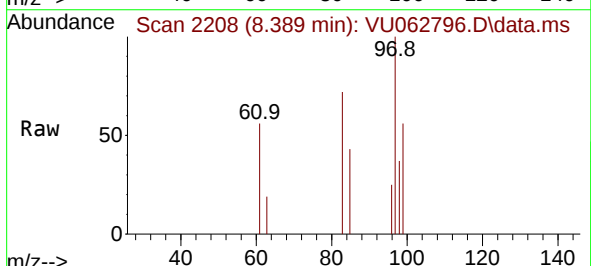
Ion Ratio Lower Upper

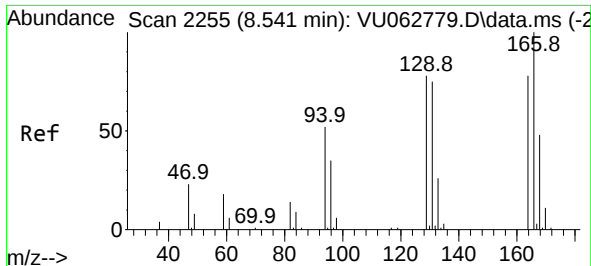
97 100

99 56.4 45.6 84.6

83 71.6 63.0 117.0

85 43.3 39.0 72.4





#47

Tetrachloroethene

Concen: 24.456 ug/L

RT: 8.544 min Scan# 21

Delta R.T. 0.003 min

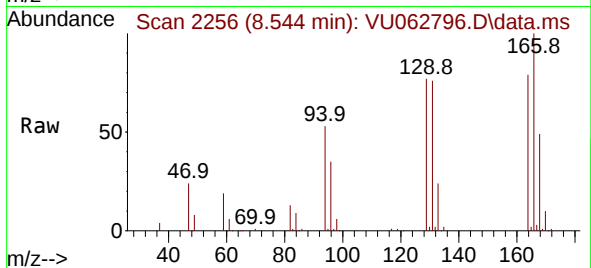
Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 143296

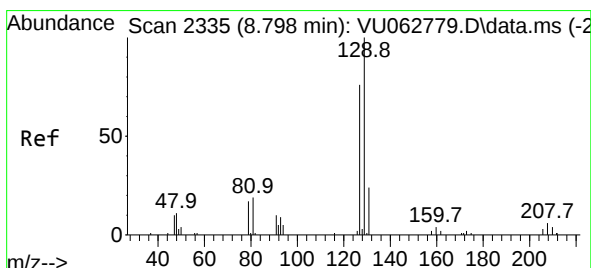
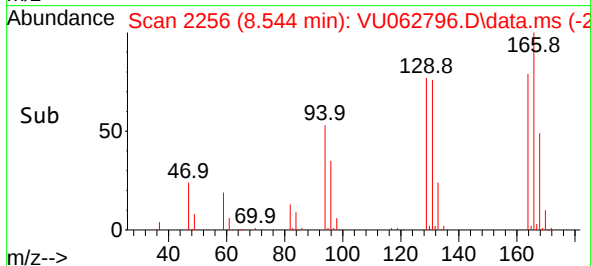
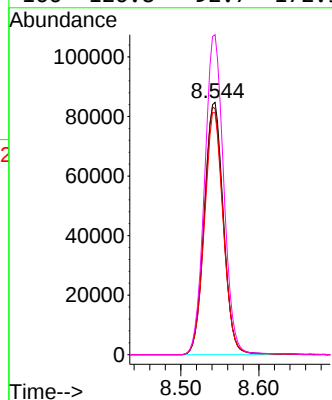
Ion Ratio Lower Upper

164 100

129 97.5 71.0 131.9

131 95.9 69.4 129.0

166 126.8 92.7 172.3



#49

Dibromochloromethane

Concen: 22.069 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. -0.257 min

Lab File: VU062796.D

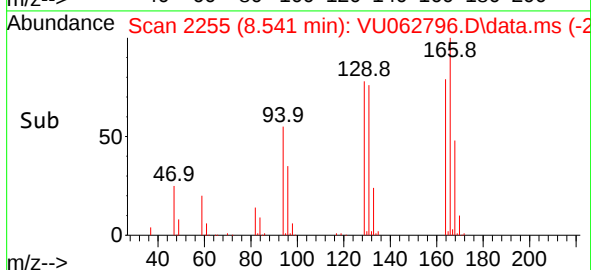
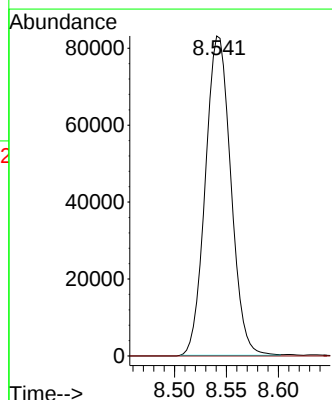
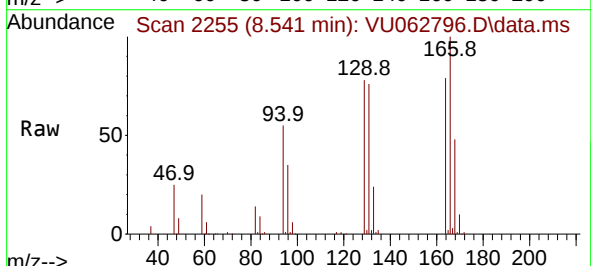
Acq: 16 Jan 2025 04:06

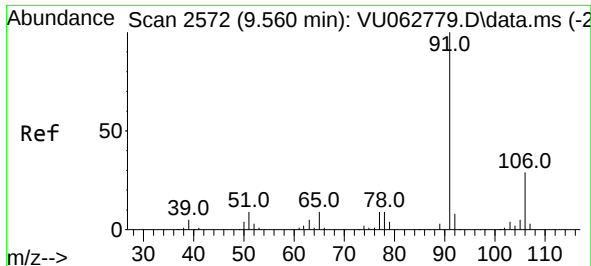
Tgt Ion:129 Resp: 141379

Ion Ratio Lower Upper

129 100

127 0.0 52.1 96.9#

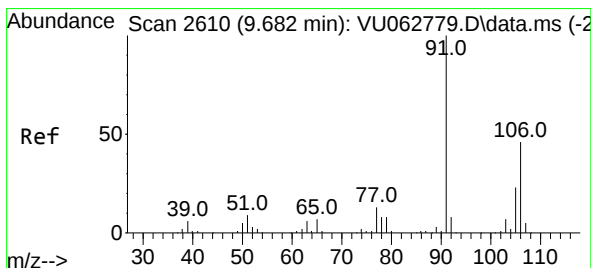
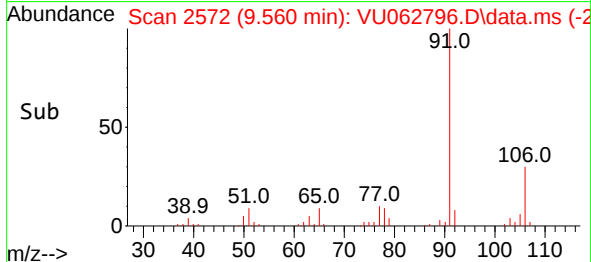
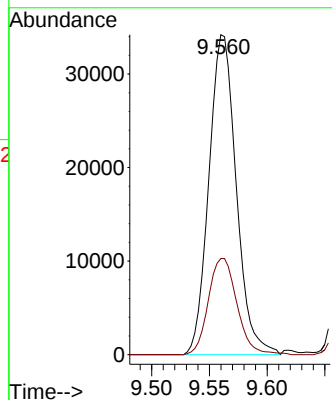
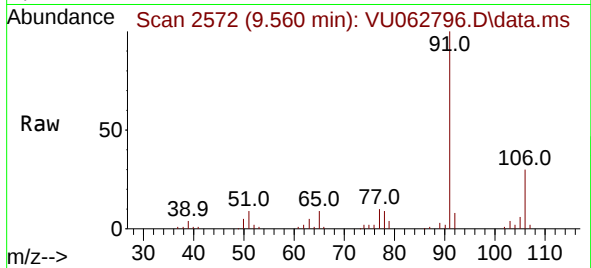




#52
Ethylbenzene
Concen: 1.819 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. -0.000 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

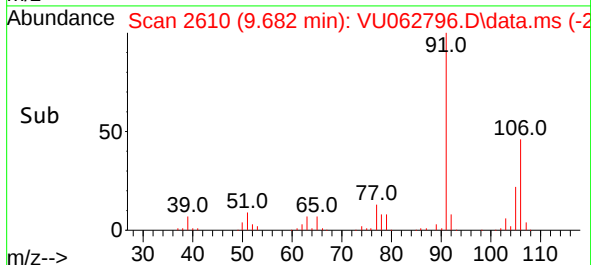
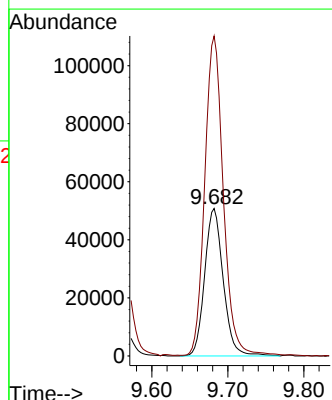
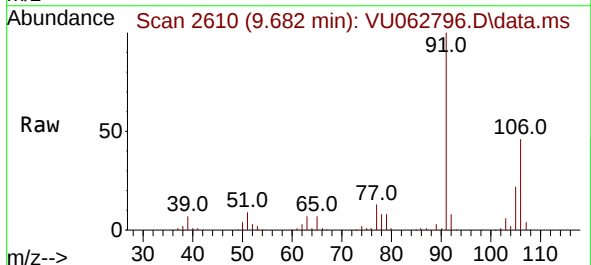
Instrument :
MSVOA_U
ClientSampleId :

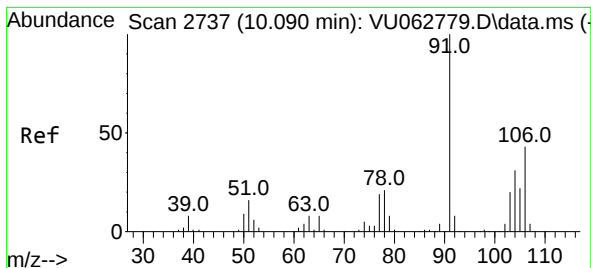
Tgt Ion: 91 Resp: 56329
Ion Ratio Lower Upper
91 100
106 30.0 21.9 40.7



#53
m,p-Xylene
Concen: 7.443 ug/L
RT: 9.682 min Scan# 2610
Delta R.T. -0.000 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

Tgt Ion:106 Resp: 86202
Ion Ratio Lower Upper
106 100
91 216.9 153.1 284.3





#54

o-Xylene

Concen: 3.954 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.000 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

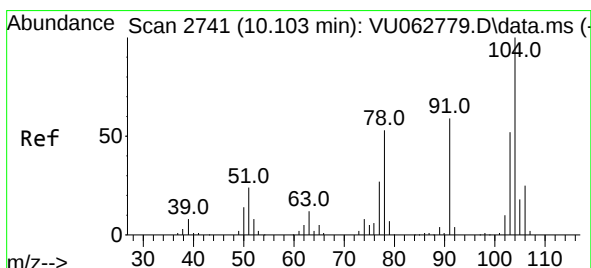
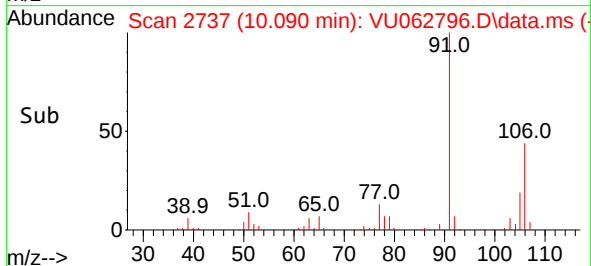
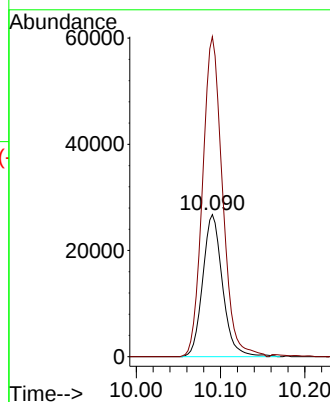
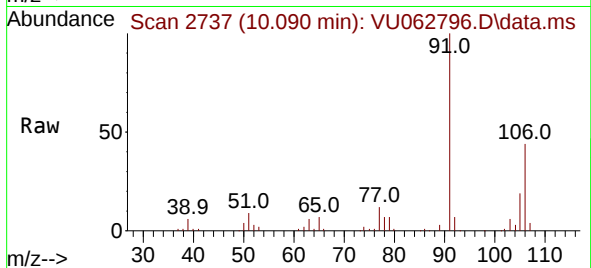
ClientSampleId :

Tgt Ion:106 Resp: 43858

Ion Ratio Lower Upper

106 100

91 225.3 160.4 297.8



#55

Styrene

Concen: 0.137 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.013 min

Lab File: VU062796.D

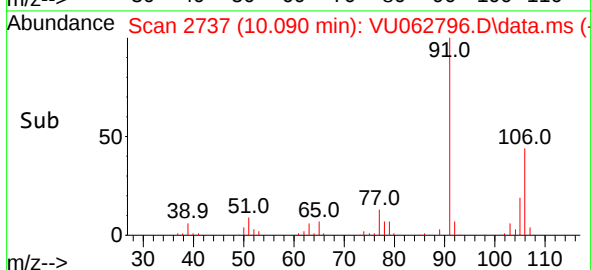
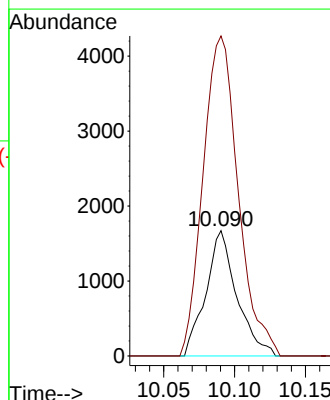
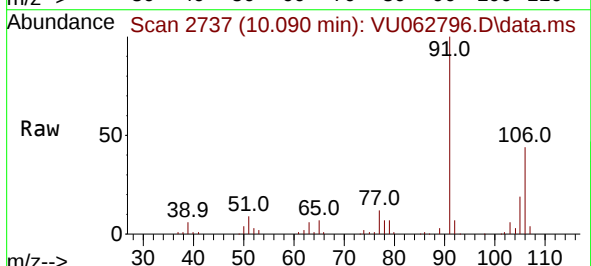
Acq: 16 Jan 2025 04:06

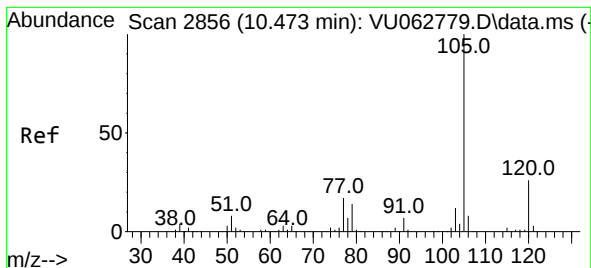
Tgt Ion:104 Resp: 2545

Ion Ratio Lower Upper

104 100

78 255.3 35.5 65.9#





#60

Isopropylbenzene

Concen: 0.638 ug/L

RT: 10.090 min Scan# 21

Delta R.T. -0.383 min

Lab File: VU062796.D

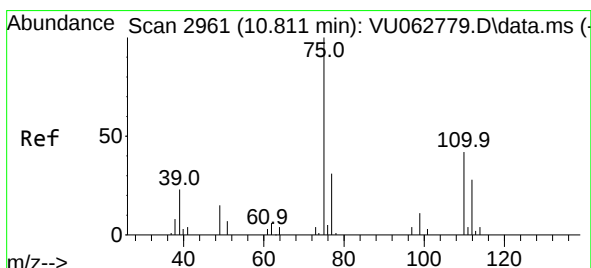
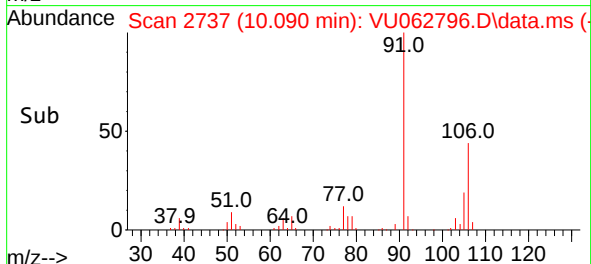
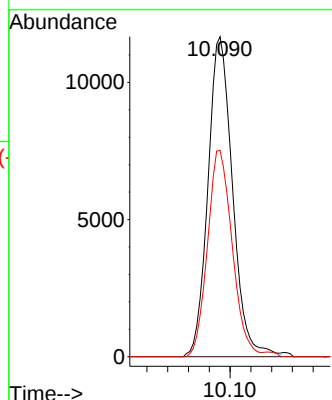
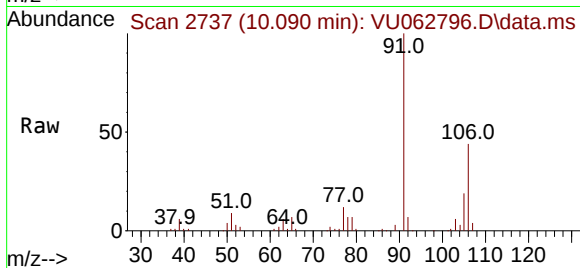
Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	105	Resp:	19157
Ion Ratio	Lower	Upper	
105	100		
120	0.0	20.2	30.2#
77	64.7	13.0	19.4#



#61

1,2,3-Trichloropropane

Concen: 0.567 ug/L

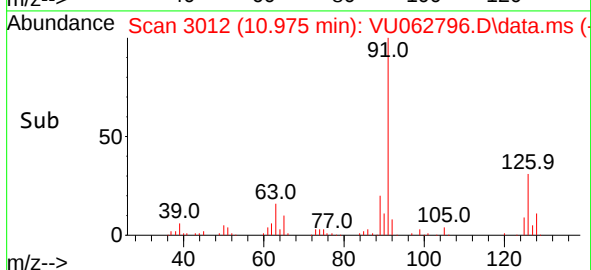
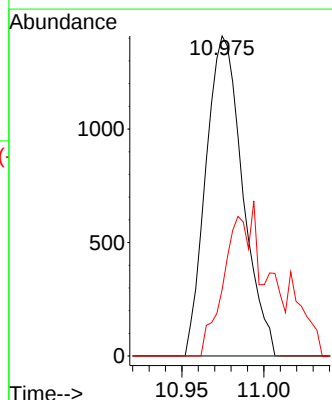
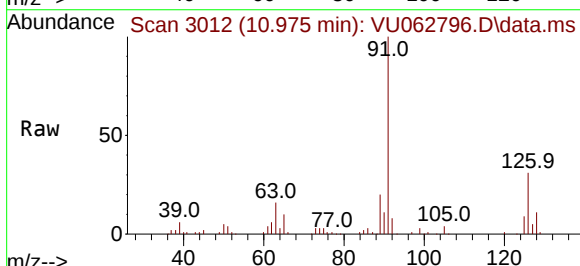
RT: 10.975 min Scan# 3012

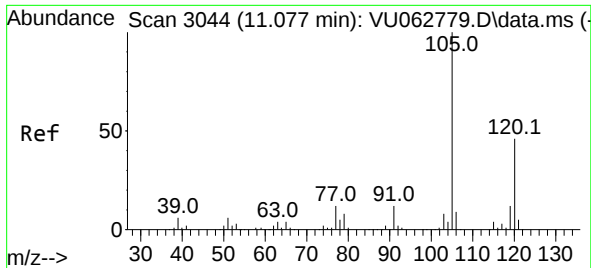
Delta R.T. 0.164 min

Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Tgt Ion:	75	Resp:	2191
Ion Ratio	Lower	Upper	
75	100		
110	0.0	33.2	49.8#
77	41.7	25.9	38.9#

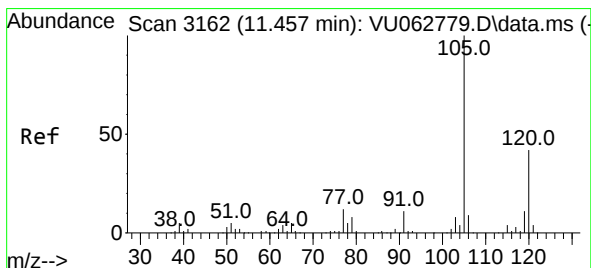
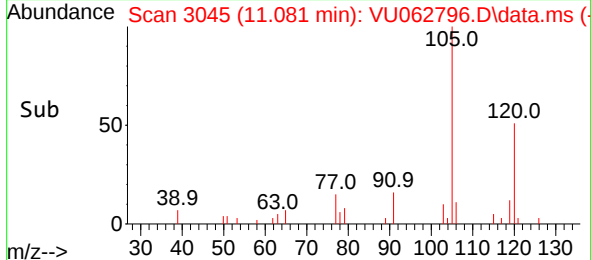
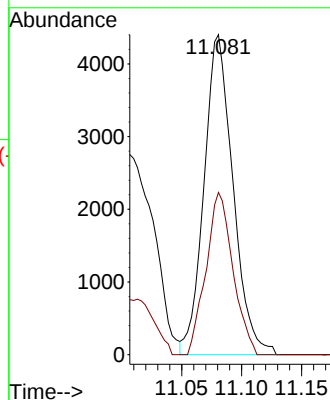
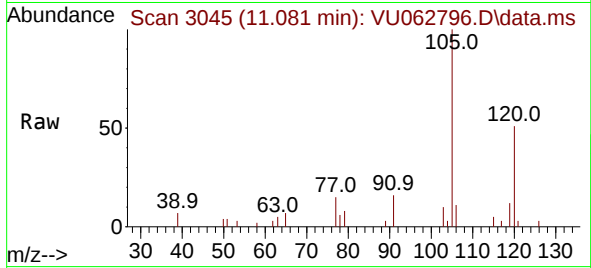




#62
1,3,5-Trimethylbenzene
Concen: 0.290 ug/L
RT: 11.081 min Scan# 3044
Delta R.T. 0.003 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

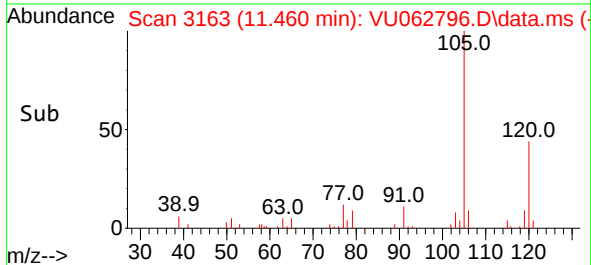
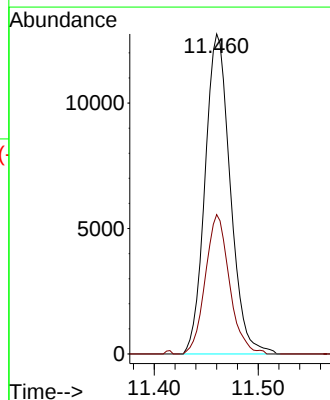
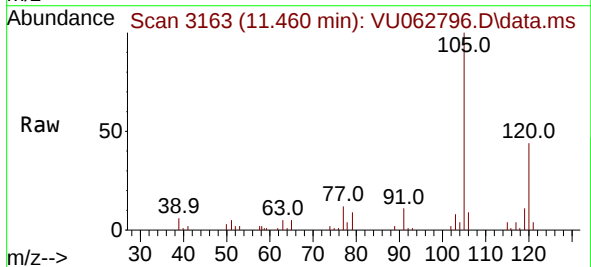
Instrument :
MSVOA_U
ClientSampleId :

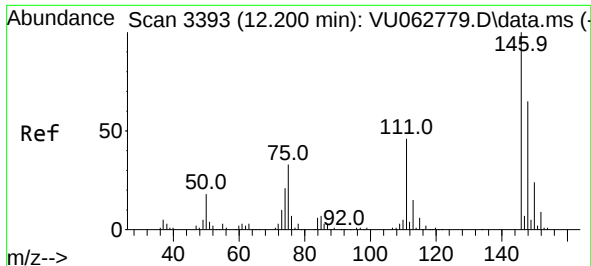
Tgt Ion:105 Resp: 7397
Ion Ratio Lower Upper
105 100
120 47.0 35.9 53.9



#63
1,2,4-Trimethylbenzene
Concen: 0.871 ug/L
RT: 11.460 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VU062796.D
Acq: 16 Jan 2025 04:06

Tgt Ion:105 Resp: 21495
Ion Ratio Lower Upper
105 100
120 41.7 34.2 51.2





#67

1,2-Dichlorobenzene

Concen: 0.590 ug/L

RT: 12.203 min Scan# 31

Delta R.T. 0.003 min

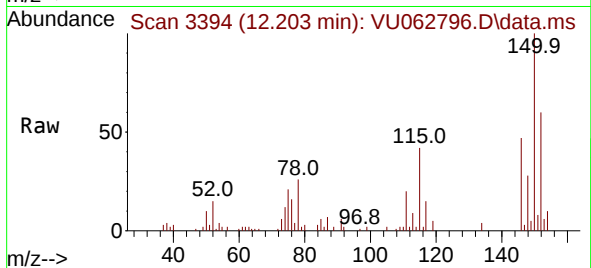
Lab File: VU062796.D

Acq: 16 Jan 2025 04:06

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:146 Resp: 7687

Ion Ratio Lower Upper

146 100

111 41.7 36.3 54.5

148 60.3 52.0 78.0

