

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121324\
 Data File : VU062304.D
 Acq On : 13 Dec 2024 11:43
 Operator : MD/SY
 Sample : P5228-08
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E2AS7

Quant Time: Dec 14 03:47:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR120924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Dec 14 03:45:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.251	114	631	5.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.422	117	1131	5.000	ug/L	0.01
58) 1,4-Dichlorobenzene-d4	11.814	152	1549	5.000	ug/L	0.01

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	21372	502.131	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	= 10042.600%#	
7) Chloroethane-d5	1.911	69	19627	648.319	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	= 12966.400%#	
11) 1,1-Dichloroethene-d2	2.560	65	10727	529.778	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	= 10595.600%#	
20) 2-Butanone-d5	4.631	46	64751	7938.242	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	= 15876.480%#	
24) Chloroform-d	5.052	84	58834	638.709	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 12774.200%#	
26) 1,2-Dichloroethane-d4	5.692	65	32090	708.454	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 14169.000%#	
32) Benzene-d6	5.718	84	105579	324.119	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 6482.400%#	
36) 1,2-Dichloropropane-d6	6.682	67	32502	348.719	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	= 6974.400%#	
41) Toluene-d8	7.888	98	90951	295.564	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 5911.200%#	
43) trans-1,3-Dichloroprop...	8.174	79	13089	319.048	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	= 6381.000%#	
46) 2-Hexanone-d5	8.627	63	47265	3818.819	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	= 7637.640%#	
56) 1,1,2,2-Tetrachloroeth...	10.746	84	27094	373.580	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	= 7471.600%#	
66) 1,2-Dichlorobenzene-d4	12.184	152	34382	120.451	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	= 2409.000%#	

Target Compounds			Qvalue			
3) Chloromethane	1.518	50	126	2.720	ug/L #	42
5) Vinyl chloride	1.599	62	42	0.871	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.563	101	256	5.617	ug/L #	21
12) 1,1-Dichloroethene	2.560	96	155	3.638	ug/L #	1
13) Acetone	2.660	43	1637	294.754	ug/L	54
14) Carbon disulfide	2.785	76	145	1.076	ug/L #	74
16) Methylene chloride	3.042	84	6499	145.314	ug/L	87
21) 2-Butanone	4.808	43	24236	3004.906	ug/L #	45
25) Chloroform	5.081	83	5881	65.070	ug/L	95
27) 1,2-Dichloroethane	5.718	62	533	9.280	ug/L #	75
33) Benzene	5.766	78	804	2.294	ug/L	100
35) Methylcyclohexane	6.679	83	8409	57.125	ug/L #	19
37) 1,2-Dichloropropane	6.679	63	3923	45.962	ug/L #	87
39) cis-1,3-Dichloropropene	7.560	75	926	6.768	ug/L #	40
40) 4-Methyl-2-pentanone	7.798	43	379	9.474	ug/L #	42
42) Toluene	7.965	91	5432	14.373	ug/L	98
44) trans-1,3-Dichloropropene	8.177	75	617	5.523	ug/L #	44
47) Tetrachloroethene	8.547	164	208	2.713	ug/L #	81
48) 2-Hexanone	8.685	43	2147	72.624	ug/L #	88

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

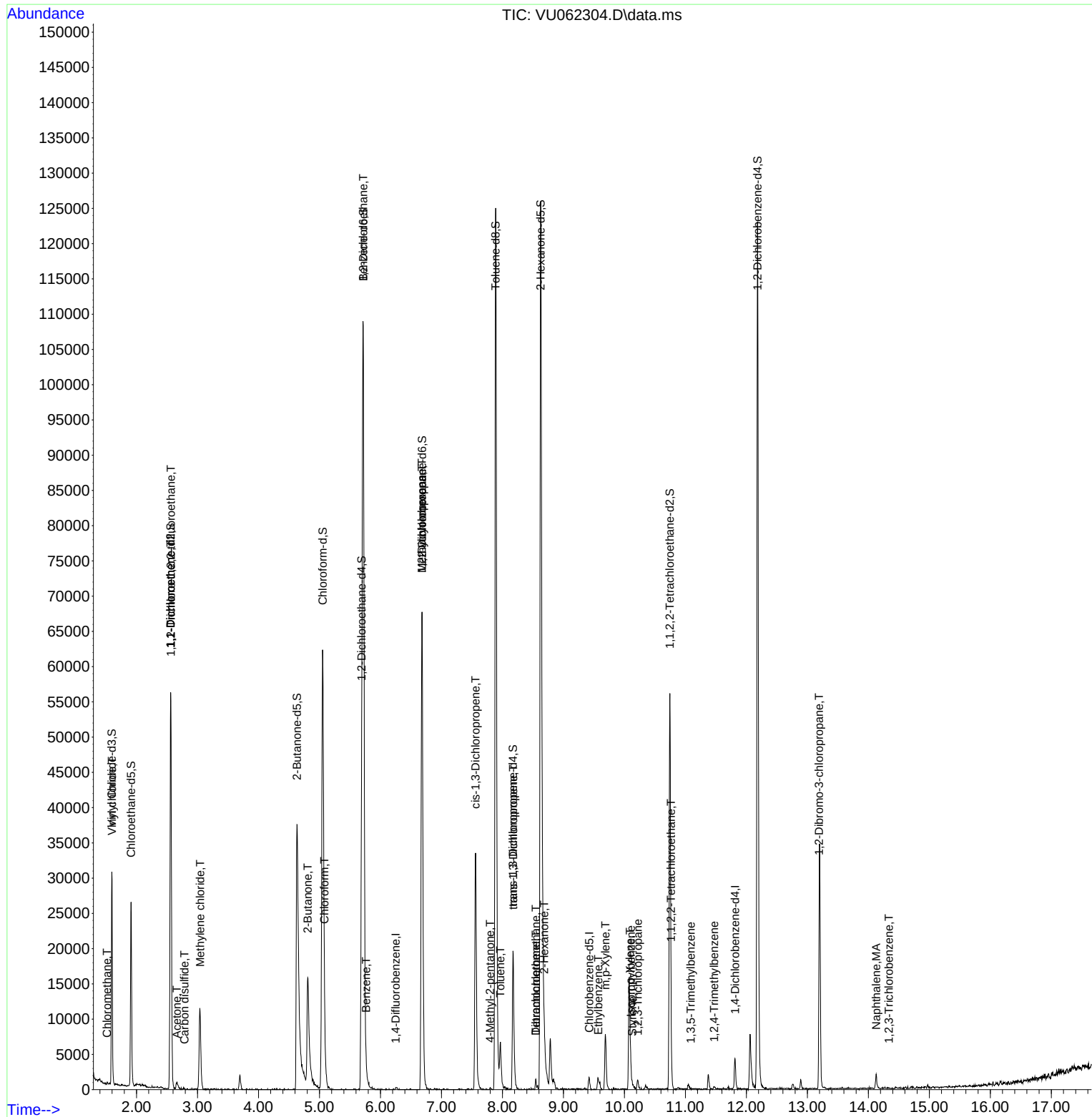
49) Dibromochloromethane	8.550	129	295	3.789	ug/L #	13
52) Ethylbenzene	9.573	91	1859	4.387	ug/L	92
53) m,p-Xylene	9.688	106	2898	18.524	ug/L	80
54) o-Xylene	10.094	106	786	5.166	ug/L #	45
55) Styrene	10.129	104	21	0.084	ug/L #	29
57) 1,1,2,2-Tetrachloroethane	10.766	83	718	9.575	ug/L #	83
60) Isopropylbenzene	10.106	105	313	0.280	ug/L #	67
61) 1,2,3-Trichloropropane	10.219	75	284	1.983	ug/L #	53
62) 1,3,5-Trimethylbenzene	11.090	105	108	0.114	ug/L #	30
63) 1,2,4-Trimethylbenzene	11.473	105	450	0.485	ug/L #	46
68) 1,2-Dibromo-3-chloropr...	13.193	75	68	2.176	ug/L #	9
71) Naphthalene	14.129	128	102	0.225	ug/L #	70
72) 1,2,3-Trichlorobenzene	14.338	180	41	0.154	ug/L #	12

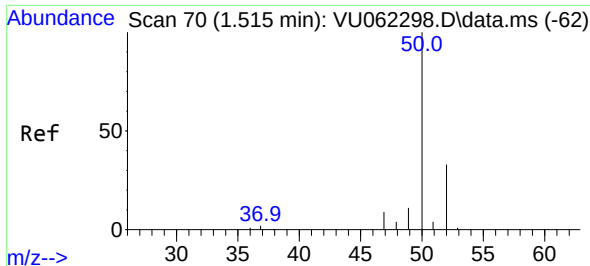
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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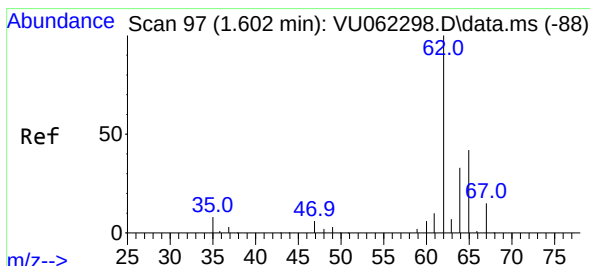
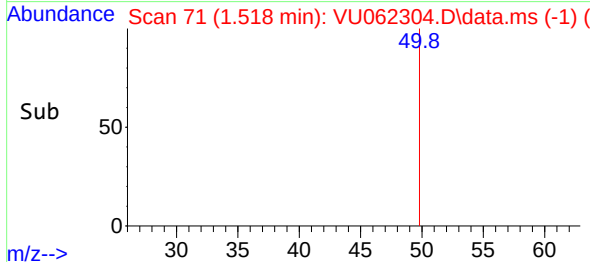
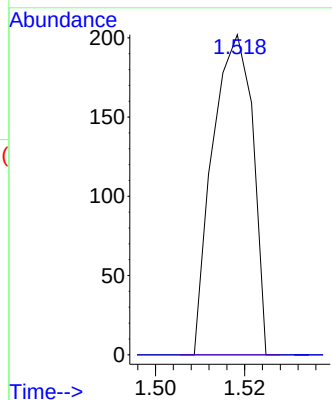
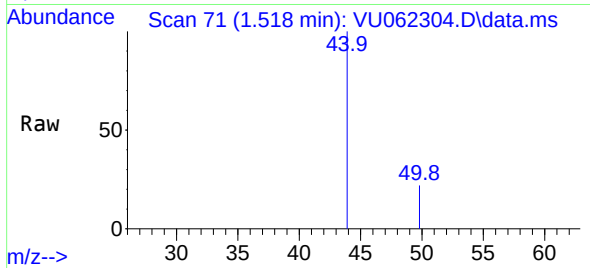




#3
Chloromethane
Concen: 2.720 ug/L
RT: 1.518 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

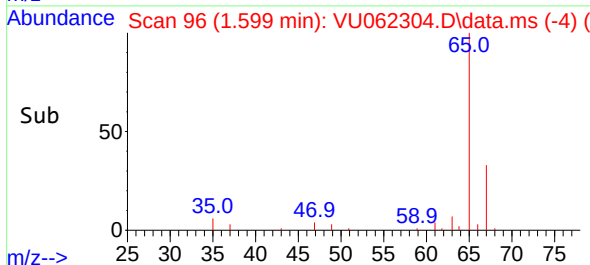
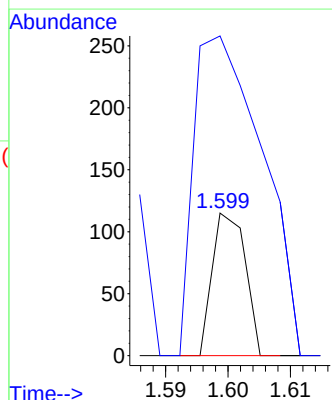
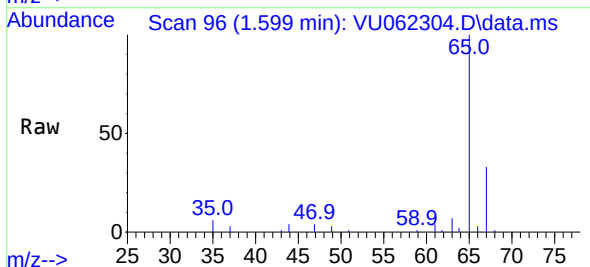
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

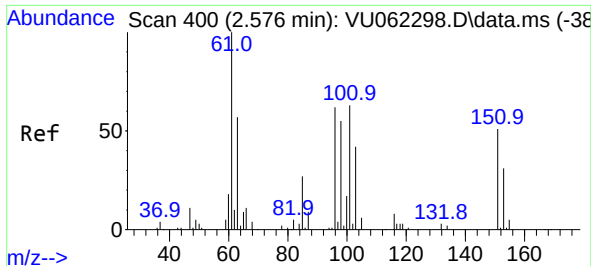
Tgt Ion: 50 Resp: 126
Ion Ratio Lower Upper
50 100
52 0.0 23.1 42.9#



#5
Vinyl chloride
Concen: 0.871 ug/L
RT: 1.599 min Scan# 96
Delta R.T. -0.003 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 62 Resp: 42
Ion Ratio Lower Upper
62 100
64 224.3 23.1 42.9#

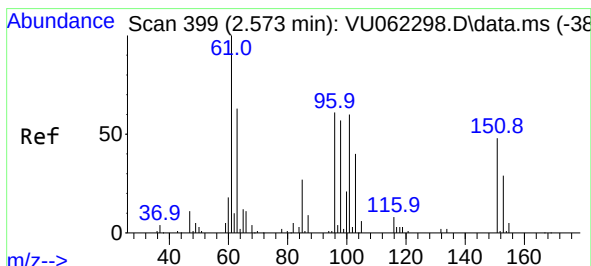
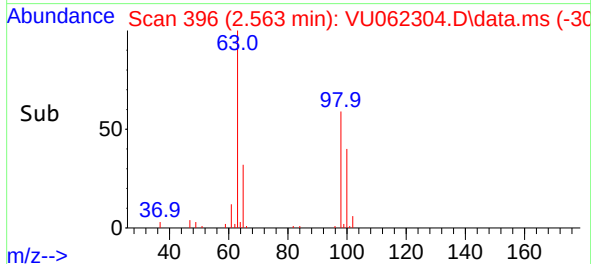
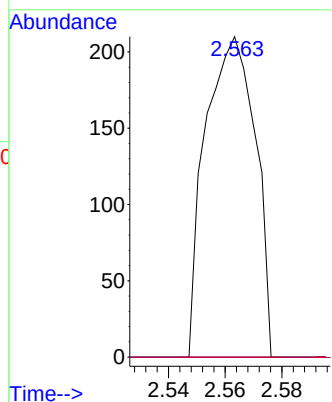
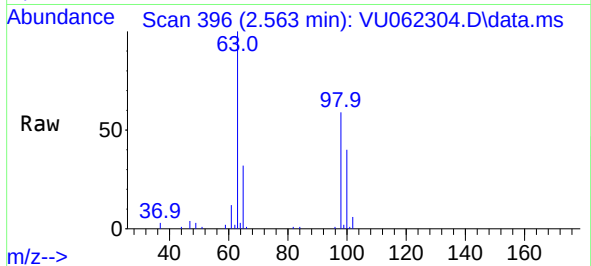




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.617 ug/L
RT: 2.563 min Scan# 396
Delta R.T. -0.013 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

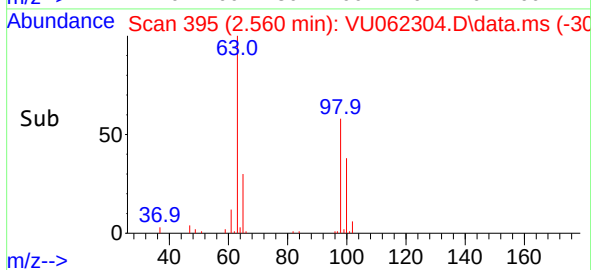
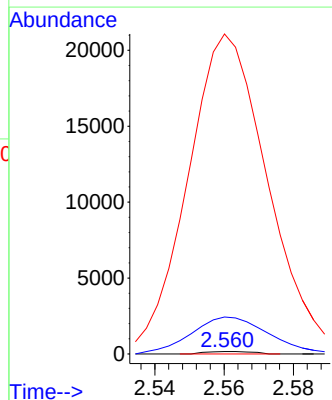
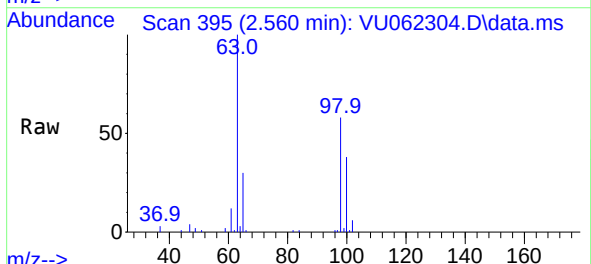
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

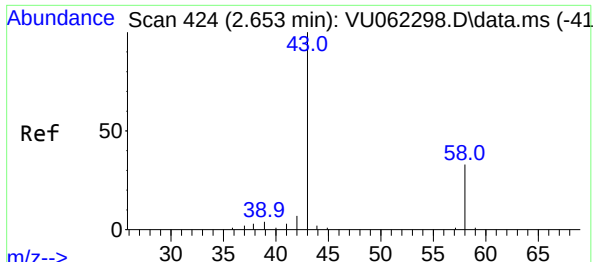
Tgt Ion:101 Resp: 256
Ion Ratio Lower Upper
101 100
85 0.0 38.0 57.0#
151 0.0 55.3 82.9#



#12
1,1-Dichloroethene
Concen: 3.638 ug/L
RT: 2.560 min Scan# 395
Delta R.T. -0.013 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 96 Resp: 155
Ion Ratio Lower Upper
96 100
61 1520.6 119.6 222.2#
63 13175.0 65.0 120.6#





#13

Acetone

Concen: 294.754 ug/L

RT: 2.660 min Scan# 41

Delta R.T. 0.006 min

Lab File: VU062304.D

Acq: 13 Dec 2024 11:43

Instrument :

MSVOA_U

ClientSampleId :

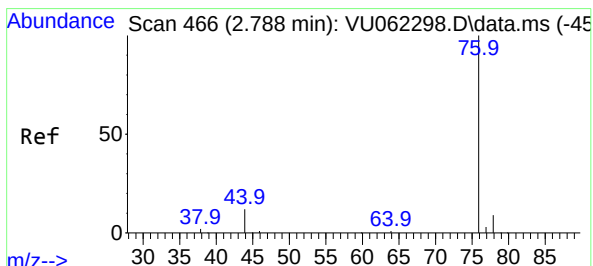
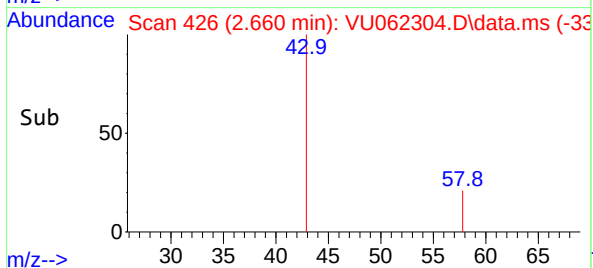
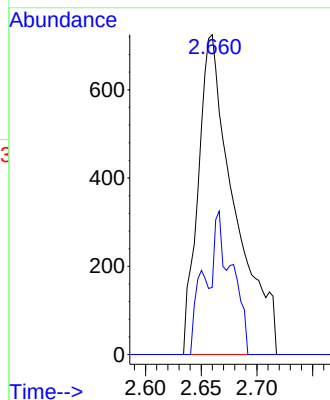
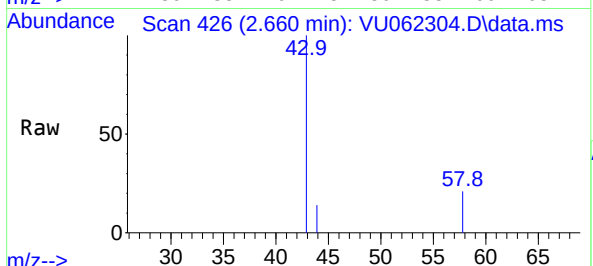
E2AS7

Tgt Ion: 43 Resp: 1637

Ion Ratio Lower Upper

43 100

58 6.4 0.0 64.0



#14

Carbon disulfide

Concen: 1.076 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.003 min

Lab File: VU062304.D

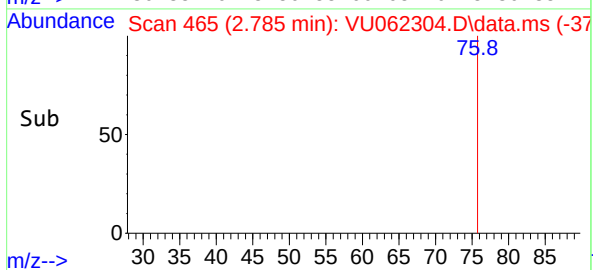
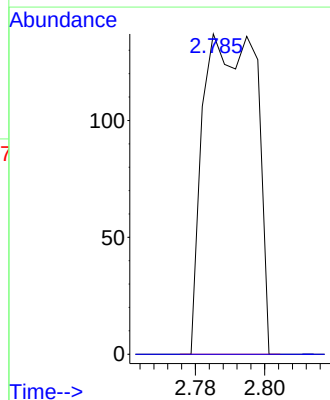
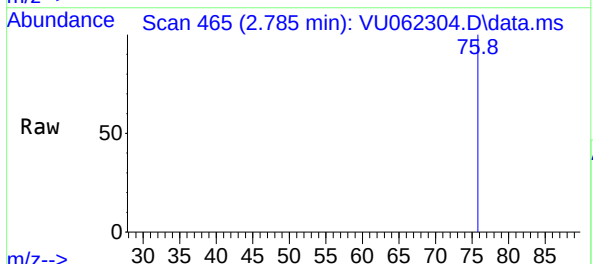
Acq: 13 Dec 2024 11:43

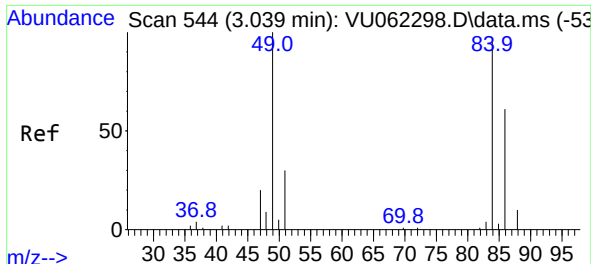
Tgt Ion: 76 Resp: 145

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



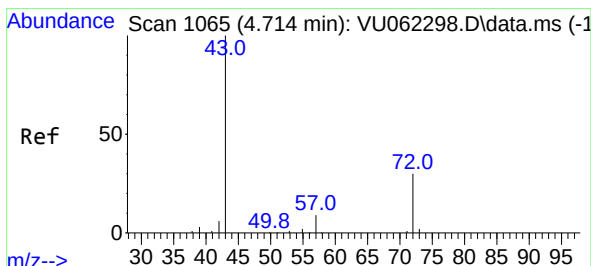
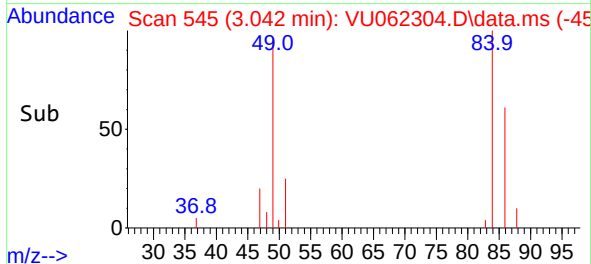
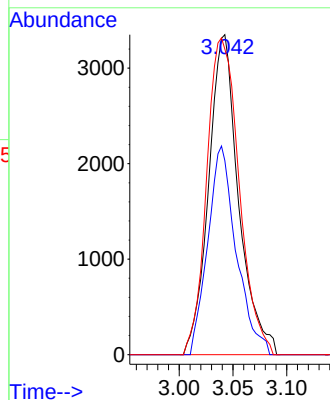
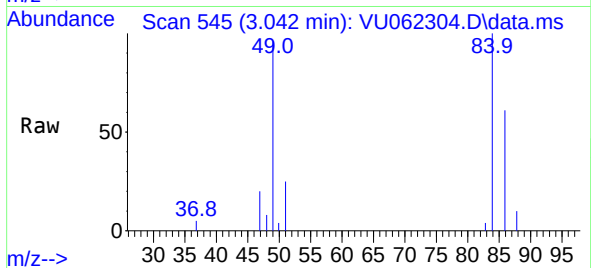


#16
Methylene chloride
Concen: 145.314 ug/L
RT: 3.042 min Scan# 54
Delta R.T. 0.003 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Instrument :
MSVOA_U
ClientSampleId :
E2AS7

Tgt Ion: 84 Resp: 6499

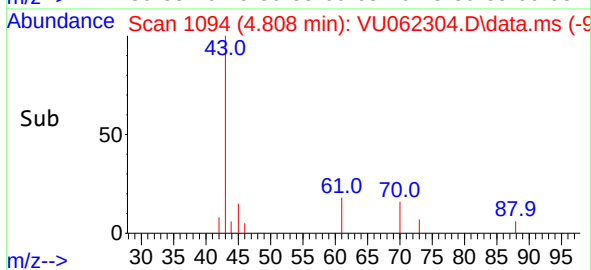
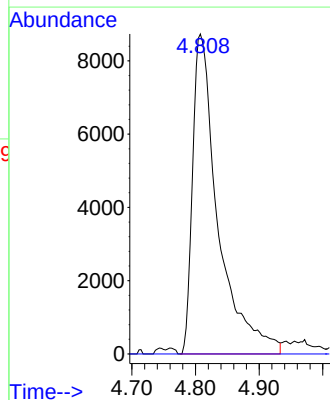
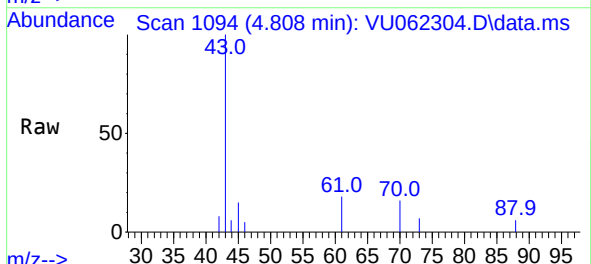
Ion	Ratio	Lower	Upper
84	100		
86	60.6	43.5	80.7
49	95.5	81.9	152.1

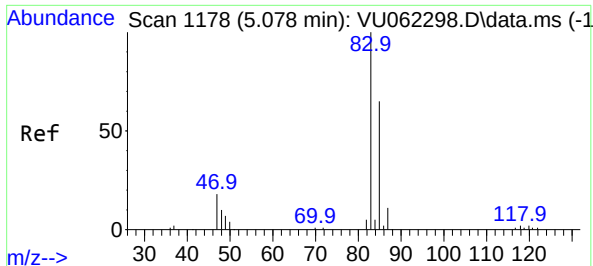


#21
2-Butanone
Concen: 3004.906 ug/L
RT: 4.808 min Scan# 1094
Delta R.T. 0.093 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 43 Resp: 24236

Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.8	44.4#





#25

Chloroform

Concen: 65.070 ug/L

RT: 5.081 min Scan# 1178

Delta R.T. 0.003 min

Lab File: VU062304.D

Acq: 13 Dec 2024 11:43

Instrument :

MSVOA_U

ClientSampleId :

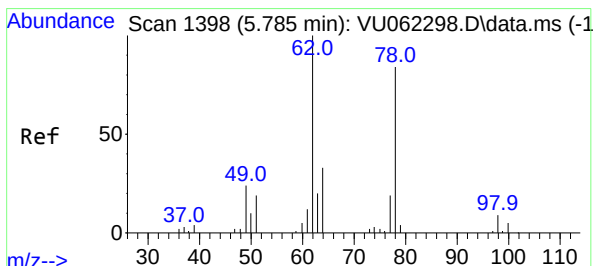
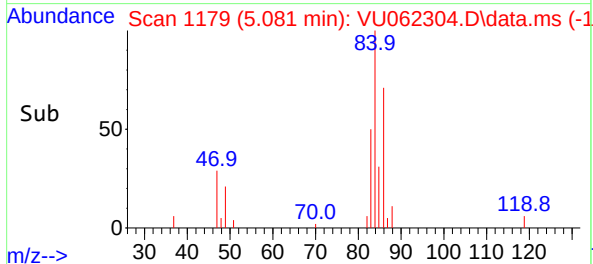
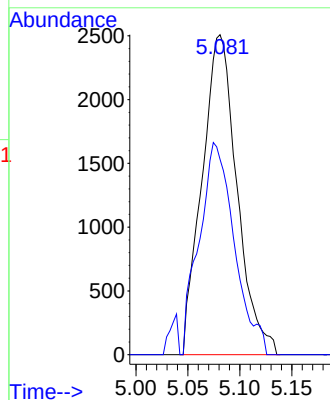
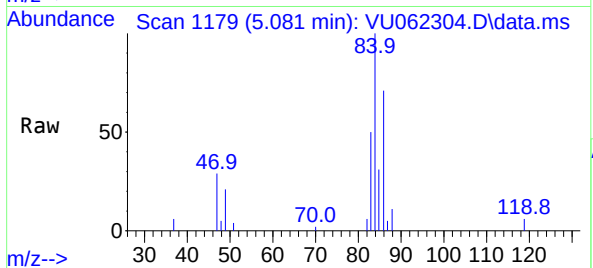
E2AS7

Tgt Ion: 83 Resp: 5881

Ion Ratio Lower Upper

83 100

85 61.1 45.4 84.2



#27

1,2-Dichloroethane

Concen: 9.280 ug/L

RT: 5.718 min Scan# 1377

Delta R.T. -0.068 min

Lab File: VU062304.D

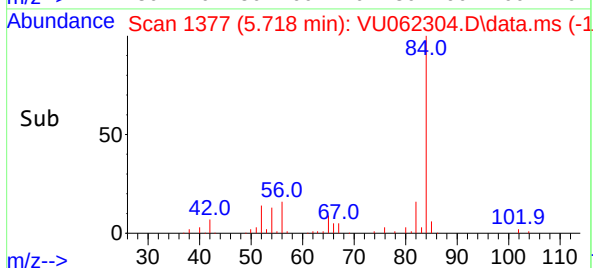
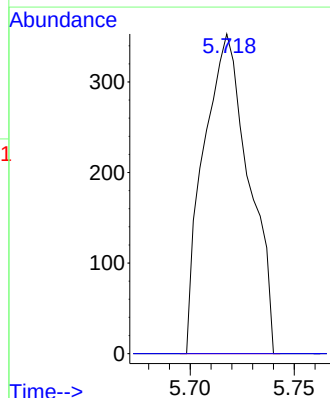
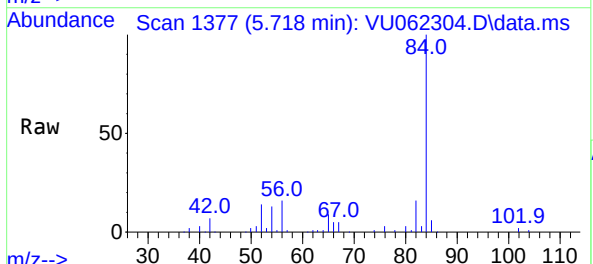
Acq: 13 Dec 2024 11:43

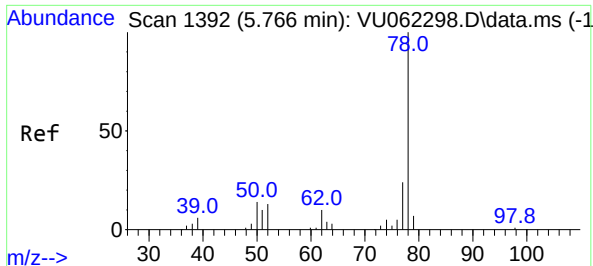
Tgt Ion: 62 Resp: 533

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#

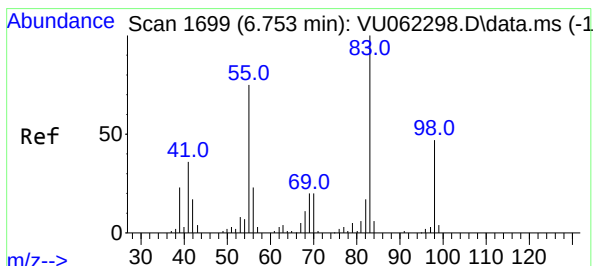
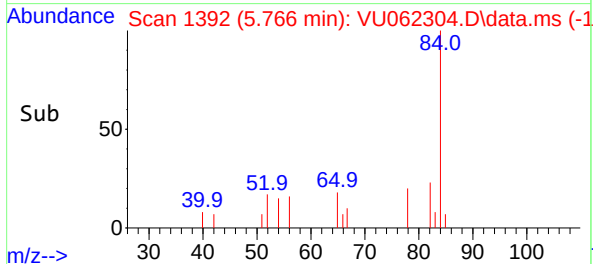
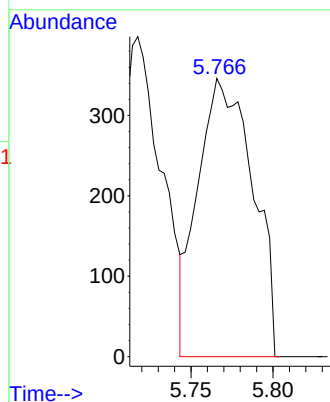
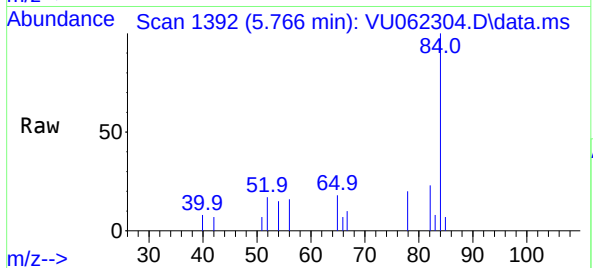




#33
Benzene
Concen: 2.294 ug/L
RT: 5.766 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU062304.D
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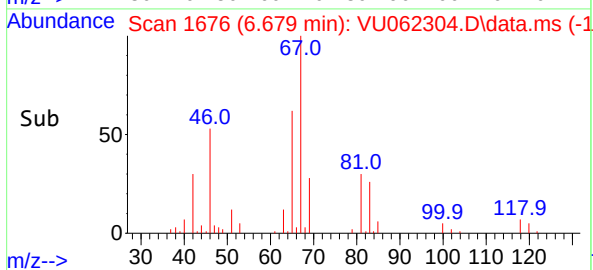
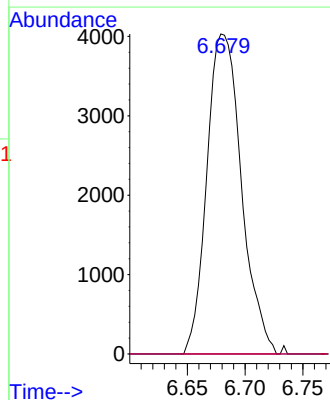
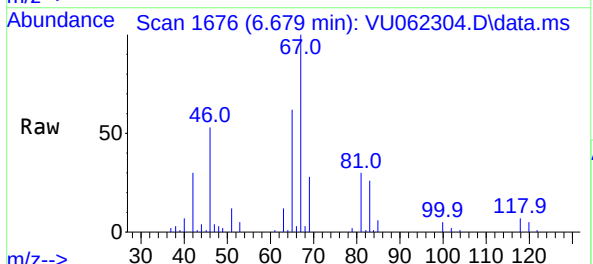
Tgt Ion: 78 Resp: 804

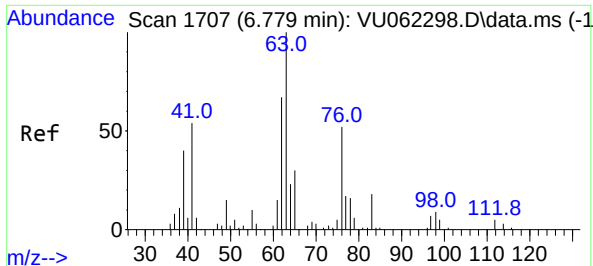
Instrument :
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E2AS7



#35
Methylcyclohexane
Concen: 57.125 ug/L
RT: 6.679 min Scan# 1676
Delta R.T. -0.074 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.7	91.1#
98	0.0	34.8	52.2#

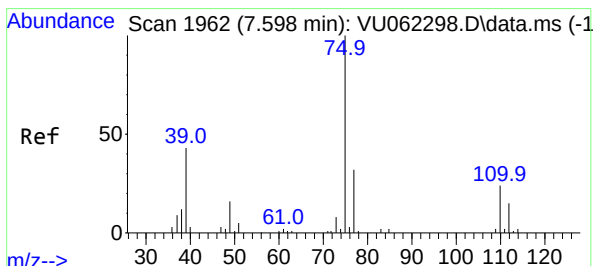
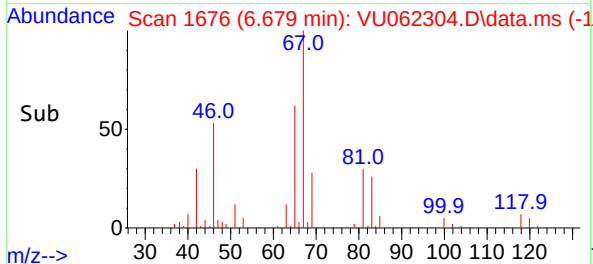
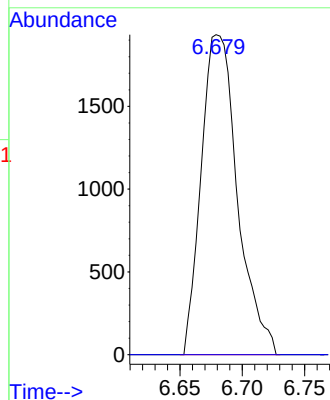
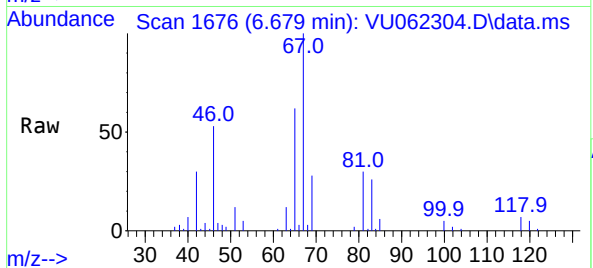




#37
1,2-Dichloropropane
Concen: 45.962 ug/L
RT: 6.679 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

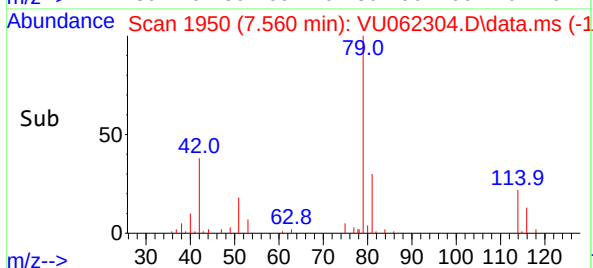
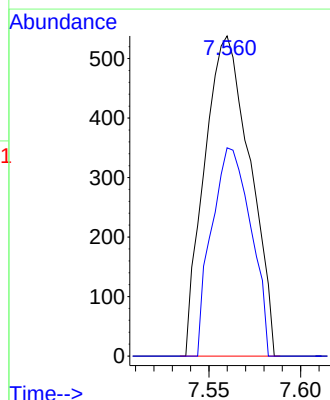
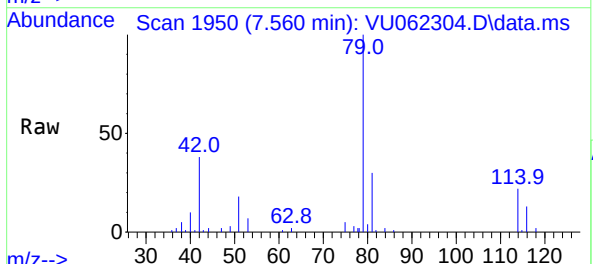
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

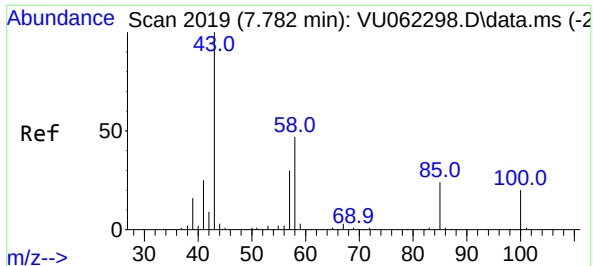
Tgt Ion: 63 Resp: 3923
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



#39
cis-1,3-Dichloropropene
Concen: 6.768 ug/L
RT: 7.560 min Scan# 1950
Delta R.T. -0.039 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 75 Resp: 926
Ion Ratio Lower Upper
75 100
77 65.1 22.3 41.3#





#40

4-Methyl-2-pentanone

Concen: 9.474 ug/L

RT: 7.798 min Scan# 2019

Delta R.T. 0.016 min

Lab File: VU062304.D

Acq: 13 Dec 2024 11:43

Instrument :

MSVOA_U

ClientSampleId :

E2AS7

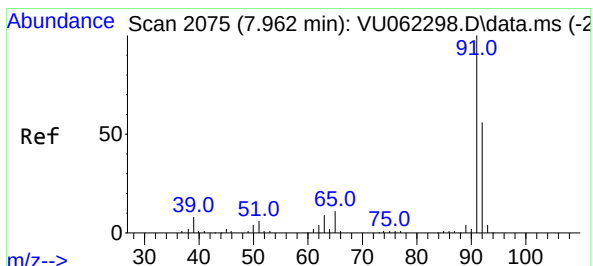
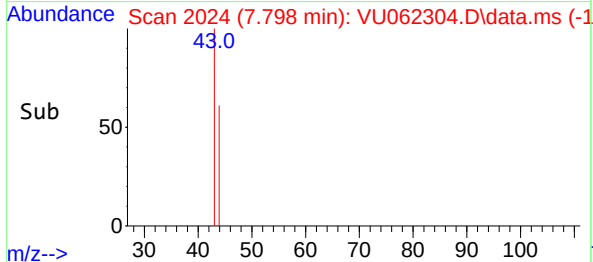
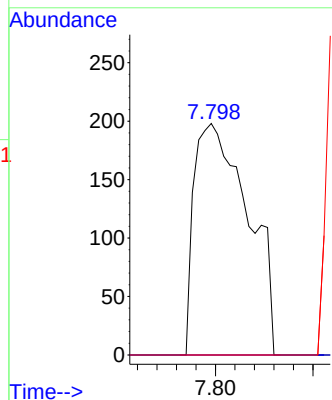
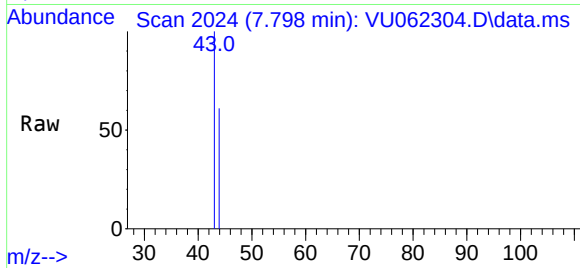
Tgt Ion: 43 Resp: 379

Ion Ratio Lower Upper

43 100

58 0.0 33.3 49.9#

100 0.0 12.4 18.6#



#42

Toluene

Concen: 14.373 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU062304.D

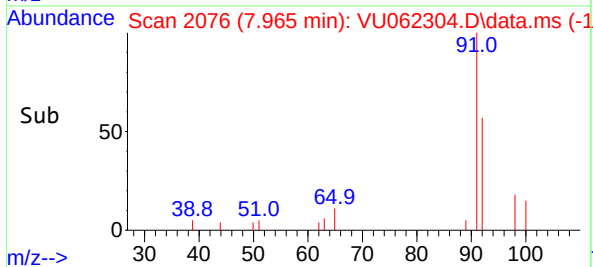
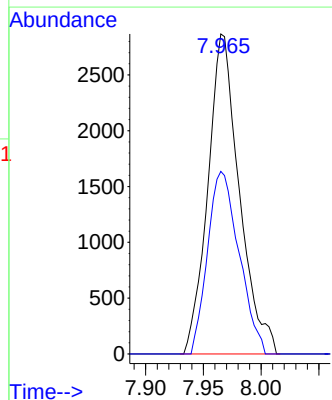
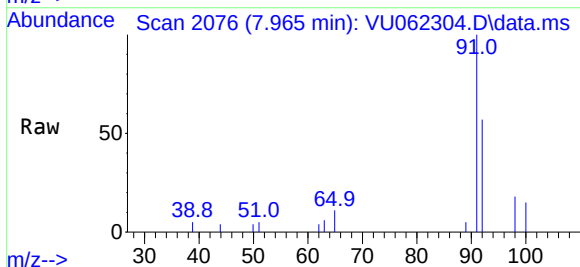
Acq: 13 Dec 2024 11:43

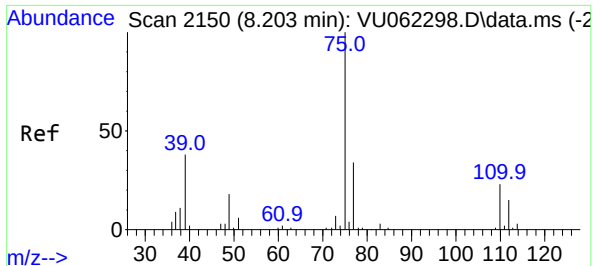
Tgt Ion: 91 Resp: 5432

Ion Ratio Lower Upper

91 100

92 57.1 39.0 72.4

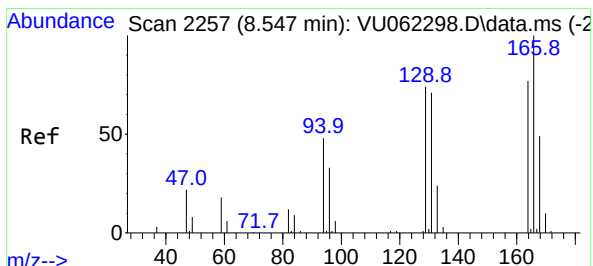
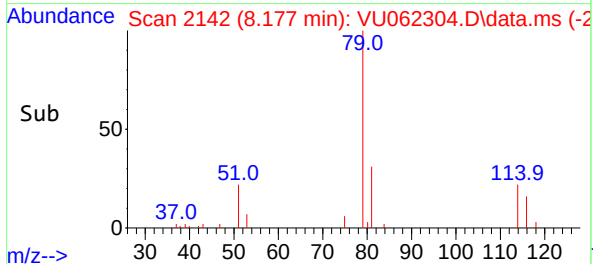
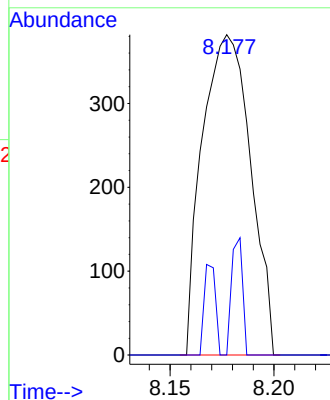
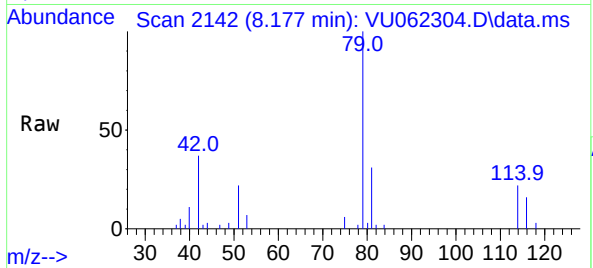




#44
trans-1,3-Dichloropropene
Concen: 5.523 ug/L
RT: 8.177 min Scan# 2150
Delta R.T. -0.026 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

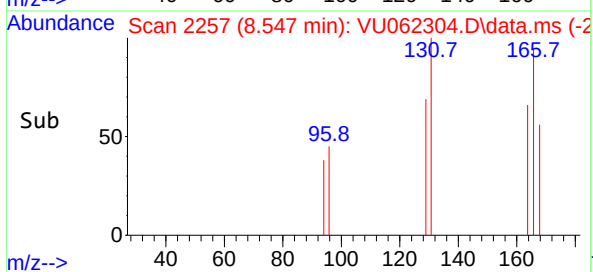
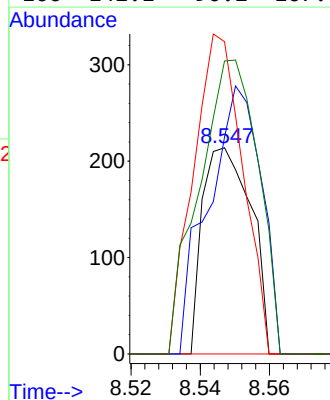
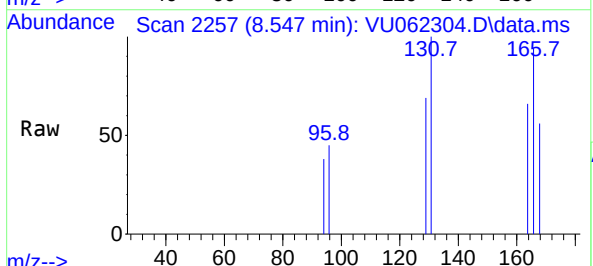
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

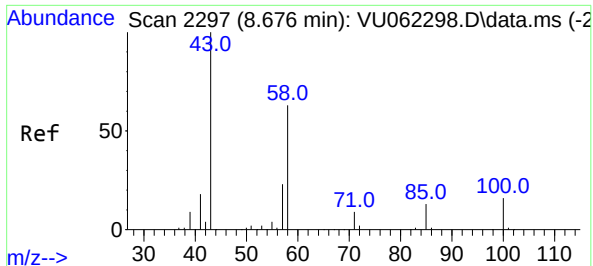
Tgt Ion: 75 Resp: 617
Ion Ratio Lower Upper
75 100
77 0.0 21.8 40.4#



#47
Tetrachloroethene
Concen: 2.713 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. 0.000 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 164 Resp: 208
Ion Ratio Lower Upper
164 100
129 105.1 73.2 136.0
131 151.4 72.3 134.3#
166 142.1 90.2 167.4



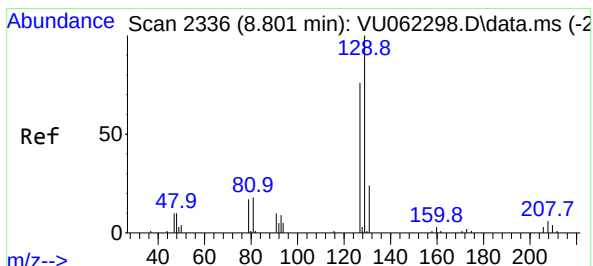
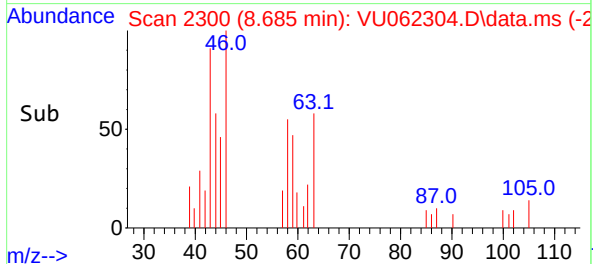
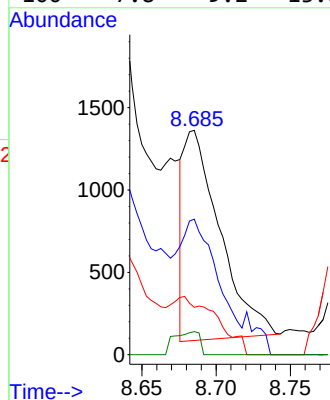
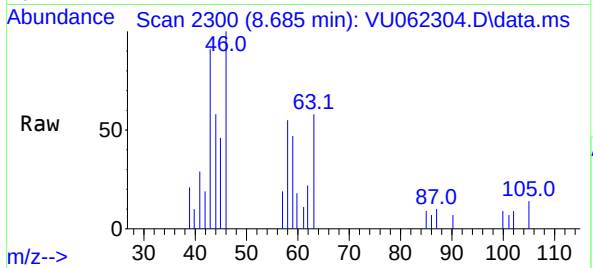


#48
2-Hexanone
Concen: 72.624 ug/L
RT: 8.685 min Scan# 2147
Delta R.T. 0.010 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Instrument :
MSVOA_U
ClientSampleId :
E2AS7

Tgt Ion: 43 Resp: 2147

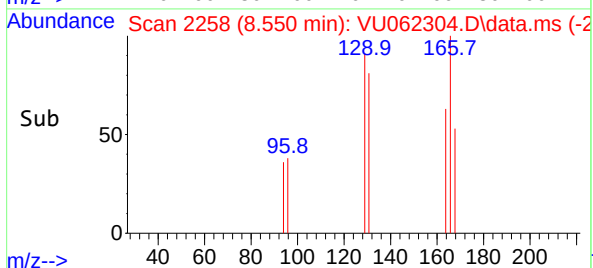
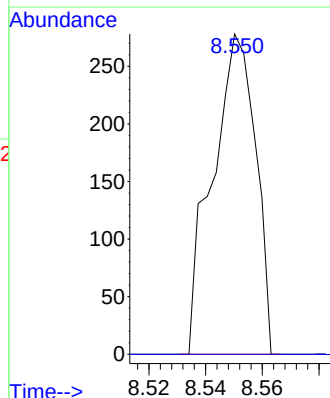
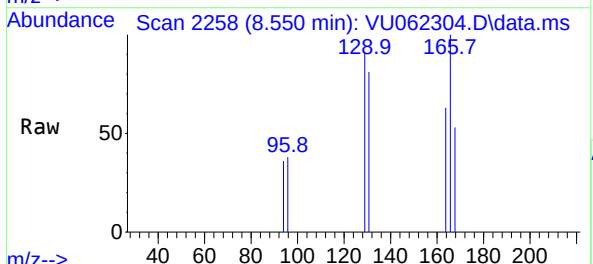
Ion	Ratio	Lower	Upper
43	100		
58	55.3	47.5	71.3
57	35.0	15.6	23.4#
100	7.8	9.2	13.8#

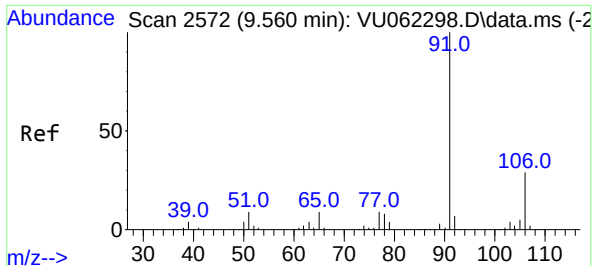


#49
Dibromochloromethane
Concen: 3.789 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.251 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 129 Resp: 295

Ion	Ratio	Lower	Upper
129	100		
127	0.0	51.1	94.9#

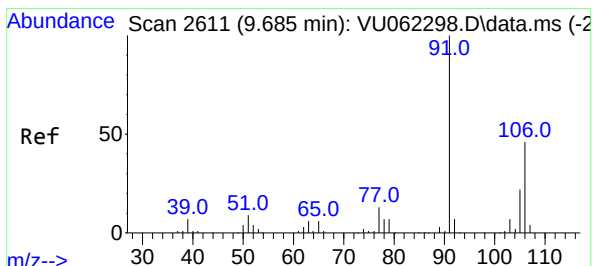
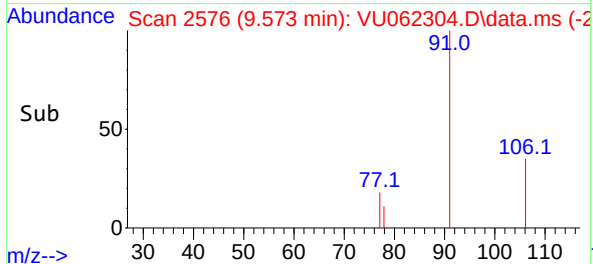
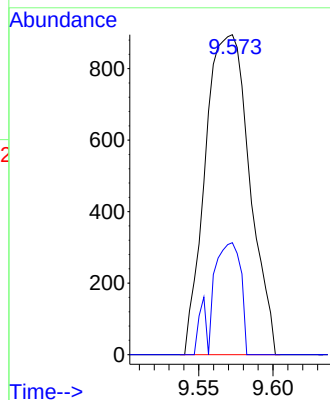
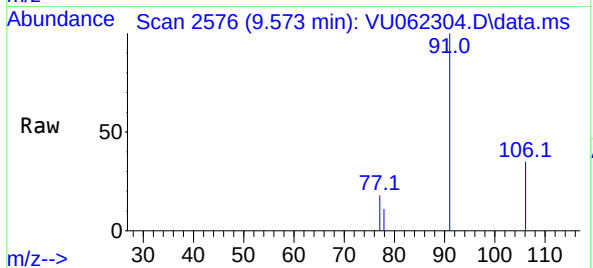




#52
Ethylbenzene
Concen: 4.387 ug/L
RT: 9.573 min Scan# 21
Delta R.T. 0.013 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

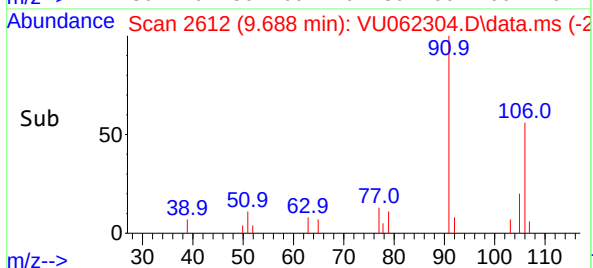
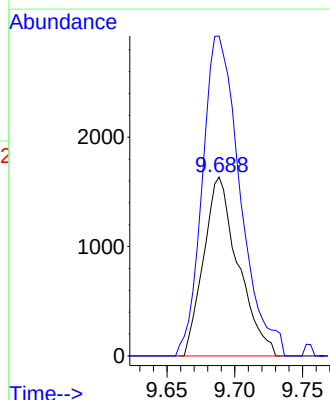
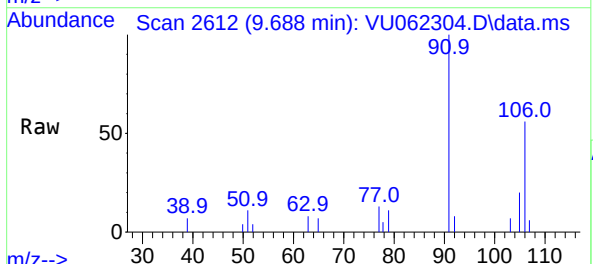
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

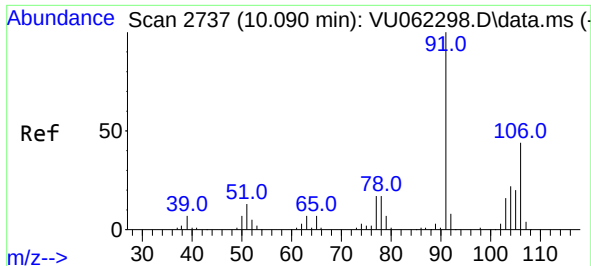
Tgt Ion: 91 Resp: 1859
Ion Ratio Lower Upper
91 100
106 35.0 21.6 40.0



#53
m,p-Xylene
Concen: 18.524 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. 0.003 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion:106 Resp: 2898
Ion Ratio Lower Upper
106 100
91 178.9 147.6 274.0

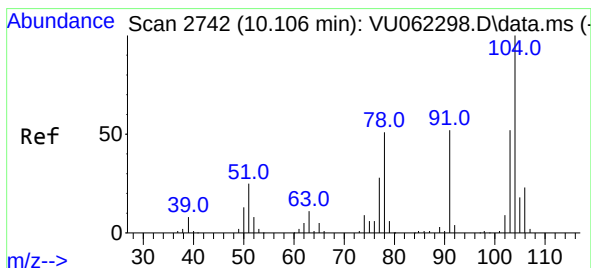
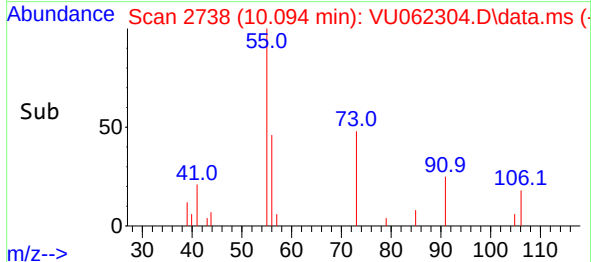
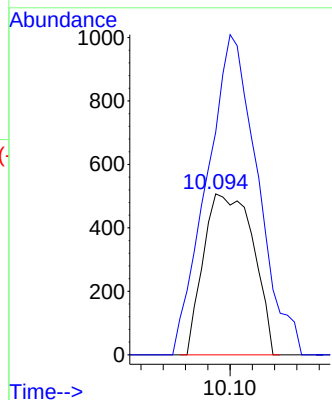
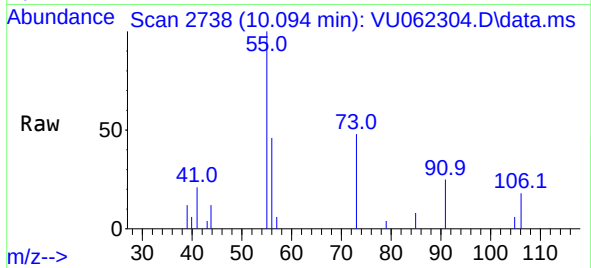




#54
o-Xylene
Concen: 5.166 ug/L
RT: 10.094 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

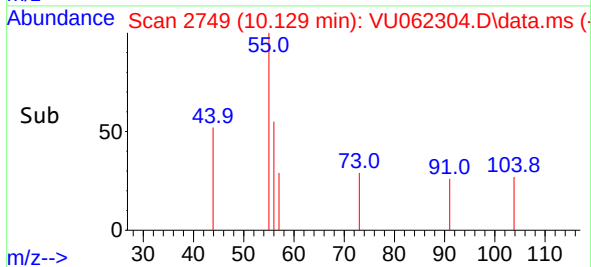
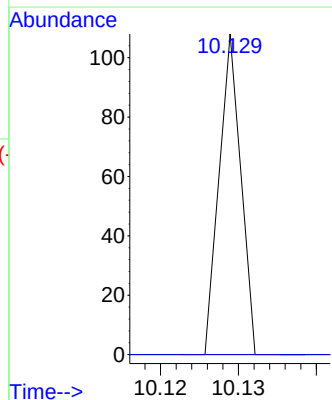
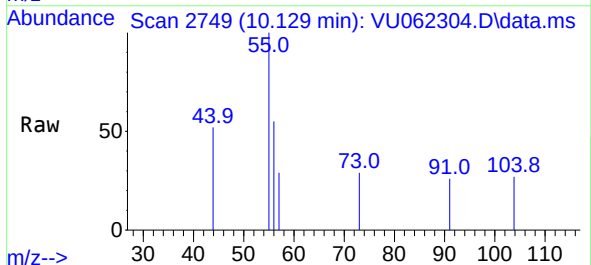
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

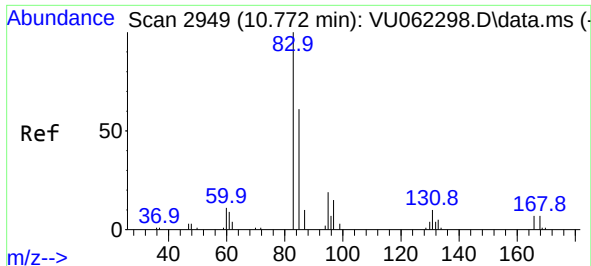
Tgt Ion:106 Resp: 786
Ion Ratio Lower Upper
106 100
91 138.5 159.8 296.8#



#55
Styrene
Concen: 0.084 ug/L
RT: 10.129 min Scan# 2749
Delta R.T. 0.023 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion:104 Resp: 21
Ion Ratio Lower Upper
104 100
78 0.0 33.2 61.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 9.575 ug/L

RT: 10.766 min Scan# 2949

Delta R.T. -0.006 min

Lab File: VU062304.D

Acq: 13 Dec 2024 11:43

Instrument :

MSVOA_U

ClientSampleId :

E2AS7

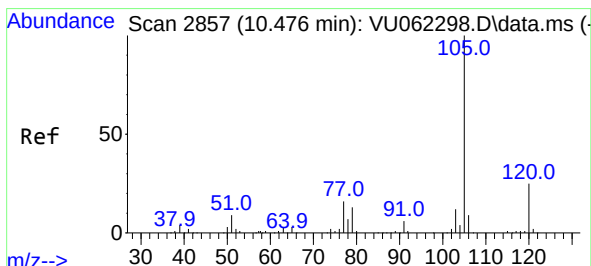
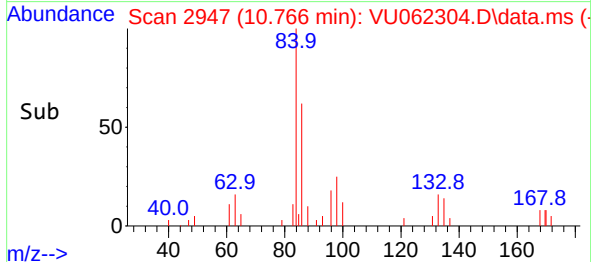
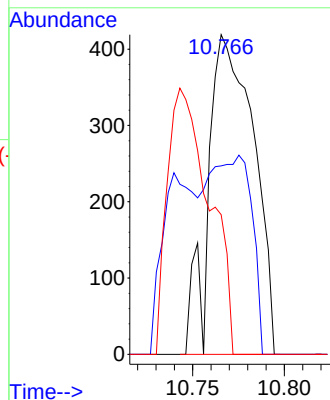
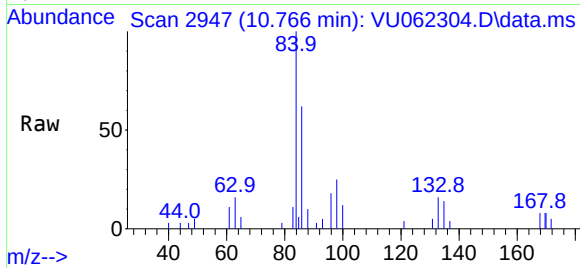
Tgt Ion: 83 Resp: 718

Ion Ratio Lower Upper

83 100

85 58.9 44.4 82.4

131 43.7 7.3 10.9#



#60

Isopropylbenzene

Concen: 0.280 ug/L

RT: 10.106 min Scan# 2742

Delta R.T. -0.370 min

Lab File: VU062304.D

Acq: 13 Dec 2024 11:43

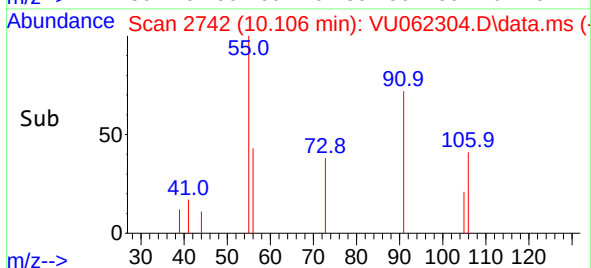
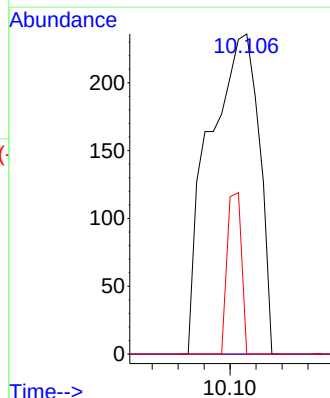
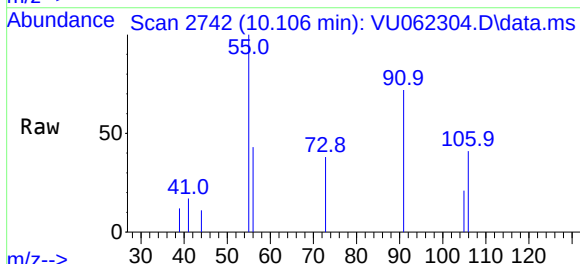
Tgt Ion:105 Resp: 313

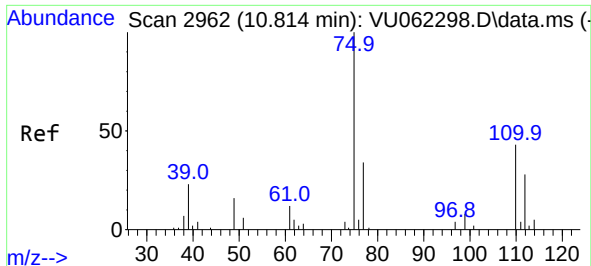
Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#

77 14.4 13.0 19.6

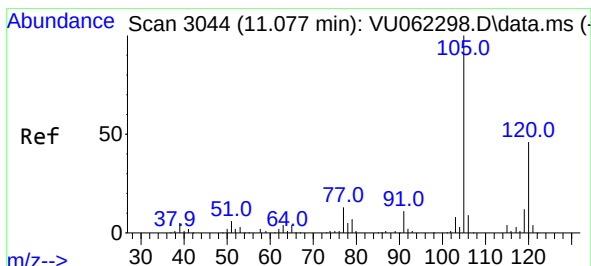
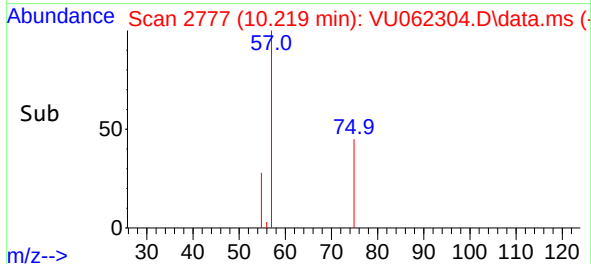
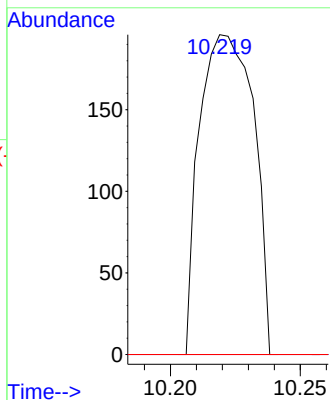
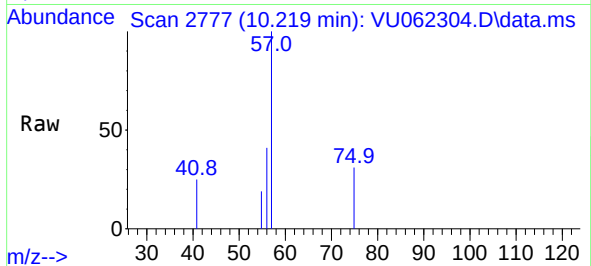




#61
1,2,3-Trichloropropane
Concen: 1.983 ug/L
RT: 10.219 min Scan# 21
Delta R.T. -0.595 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

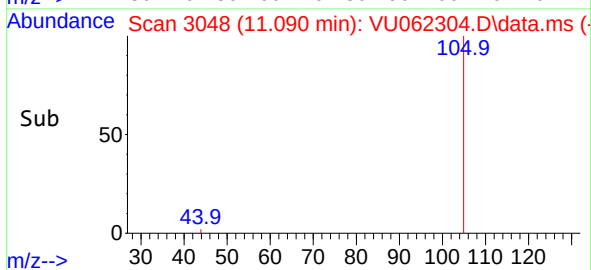
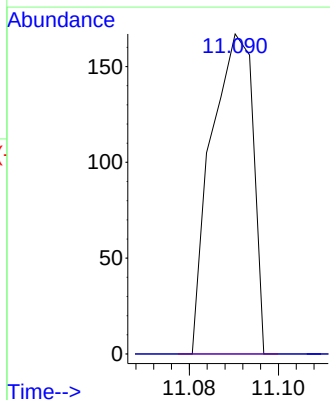
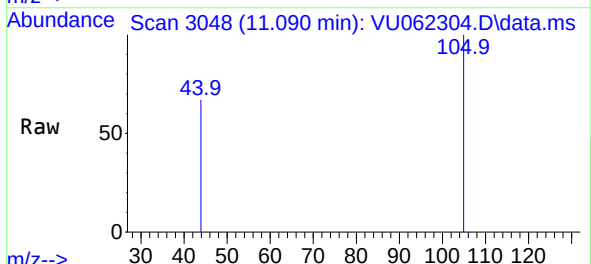
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

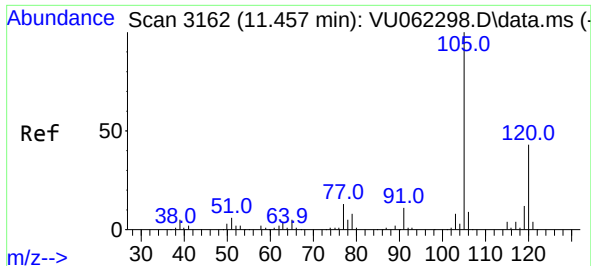
Tgt Ion: 75 Resp: 284
Ion Ratio Lower Upper
75 100
110 0.0 28.9 43.3#
77 15.8 26.5 39.7#



#62
1,3,5-Trimethylbenzene
Concen: 0.114 ug/L
RT: 11.090 min Scan# 3048
Delta R.T. 0.013 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion:105 Resp: 108
Ion Ratio Lower Upper
105 100
120 0.0 36.7 55.1#

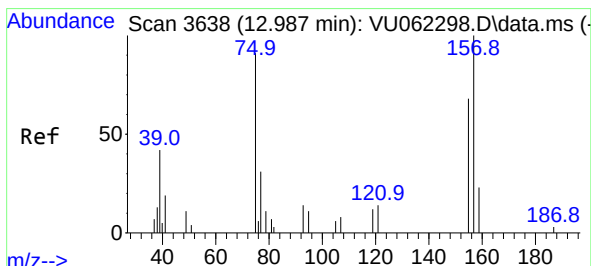
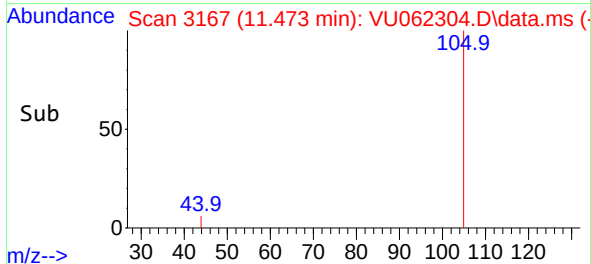
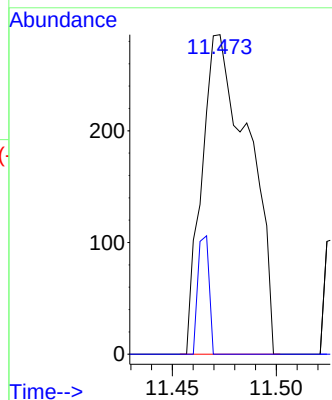
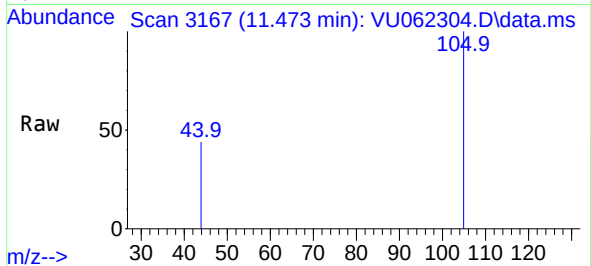




#63
1,2,4-Trimethylbenzene
Concen: 0.485 ug/L
RT: 11.473 min Scan# 3167
Delta R.T. 0.016 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

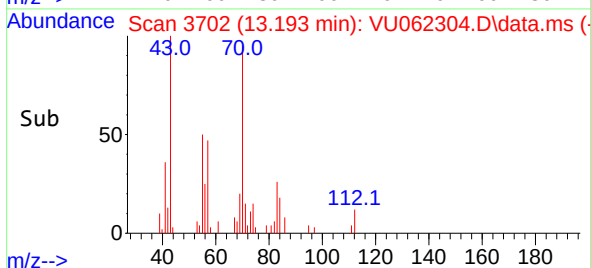
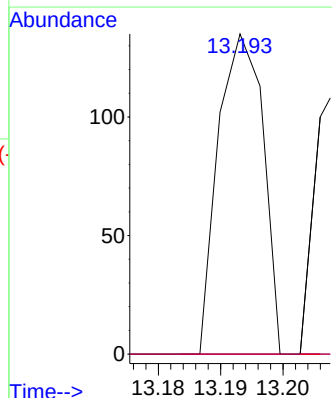
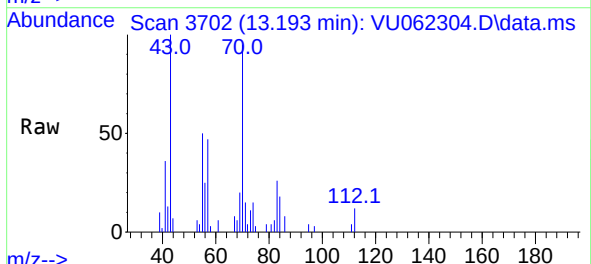
Instrument :
MSVOA_U
ClientSampleId :
E2AS7

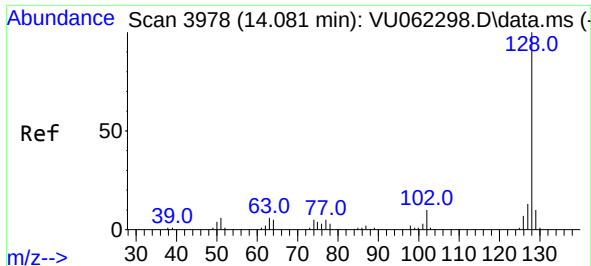
Tgt Ion:105 Resp: 450
Ion Ratio Lower Upper
105 100
120 8.9 34.7 52.1#



#68
1,2-Dibromo-3-chloropropane
Concen: 2.176 ug/L
RT: 13.193 min Scan# 3702
Delta R.T. 0.206 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion: 75 Resp: 68
Ion Ratio Lower Upper
75 100
155 0.0 55.2 82.8#
157 0.0 73.5 110.3#

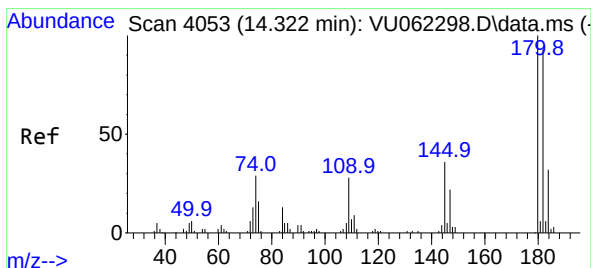
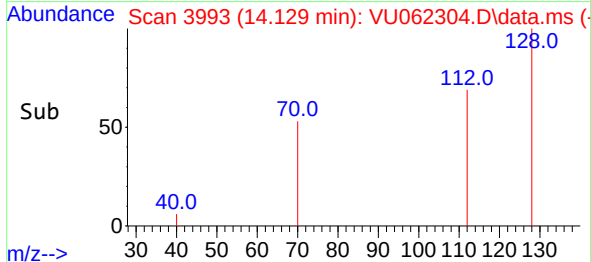
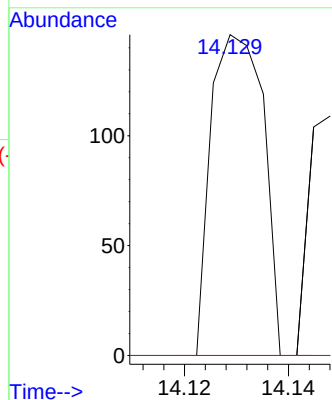
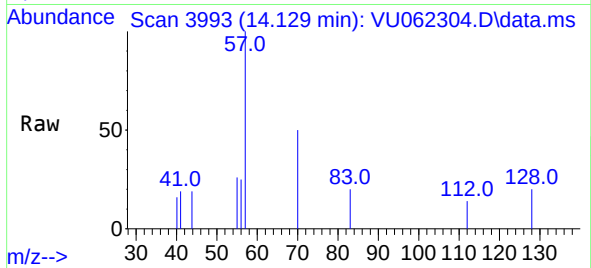




#71
Naphthalene
Concen: 0.225 ug/L
RT: 14.129 min Scan# 3978
Delta R.T. 0.048 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Instrument :
MSVOA_U
ClientSampleId :
E2AS7

Tgt Ion:128 Resp: 102
Ion Ratio Lower Upper
128 100
129 0.0 8.5 12.7#
127 0.0 10.2 15.4#



#72
1,2,3-Trichlorobenzene
Concen: 0.154 ug/L
RT: 14.338 min Scan# 4058
Delta R.T. 0.016 min
Lab File: VU062304.D
Acq: 13 Dec 2024 11:43

Tgt Ion:180 Resp: 41
Ion Ratio Lower Upper
180 100
182 0.0 76.1 114.1#
145 0.0 27.4 41.0#

