

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U020823\
 Data File : U053004.D
 Acq On : 08 Feb 2023 16:44
 Operator : JC/MD
 Sample : 01443-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 13 16:35:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM020823WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Feb 09 01:09:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	317813	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	297433	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	160507	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	131387	44.498	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.000%
7) Chloroethane-d5	1.913	69	114000	47.729	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.460%
11) 1,1-Dichloroethene-d2	2.566	63	199064	43.995	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.000%
21) 2-Butanone-d5	4.627	46	125223	109.346	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.350%
24) Chloroform-d	5.058	84	235959	48.332	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.660%
26) 1,2-Dichloroethane-d4	5.697	65	139164	47.692	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.380%
32) Benzene-d6	5.723	84	470228	47.651	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.300%
36) 1,2-Dichloropropane-d6	6.685	67	145842	47.901	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.800%
41) Toluene-d8	7.894	98	455352	47.093	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.180%
43) trans-1,3-Dichloroprop...	8.176	79	82456	49.414	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.820%
47) 2-Hexanone-d5	8.630	63	104271	112.776	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.780%
56) 1,1,2,2-Tetrachloroeth...	10.752	84	218790	51.908	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.820%
66) 1,2-Dichlorobenzene-d4	12.189	152	177467	49.681	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.360%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	66421	26.574	ug/L	99
3) Chloromethane	1.518	50	63108	27.388	ug/L	100
5) Vinyl chloride	1.604	62	133476	47.048	ug/L	96
6) Bromomethane	1.858	94	30696	15.676	ug/L	100
8) Chloroethane	1.932	64	48229	27.733	ug/L	97
9) Trichlorofluoromethane	2.135	101	194550	44.792	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.579	101	48432	22.134	ug/L	97
12) 1,1-Dichloroethene	2.579	96	86837	41.653	ug/L	92
16) Methylene chloride	3.042	84	106965	42.509	ug/L	93
17) trans-1,2-Dichloroethene	3.347	96	42827	19.207	ug/L	93
19) 1,1-Dichloroethane	3.865	63	247299	64.709	ug/L	97
20) cis-1,2-Dichloroethene	4.662	96	113870	45.260	ug/L #	92
23) Bromochloromethane	4.971	128	56981	42.000	ug/L	95
25) Chloroform	5.083	83	250389	58.600	ug/L	99
27) 1,2-Dichloroethane	5.787	62	219653	71.913	ug/L	98
30) 1,1,1-Trichloroethane	5.312	97	78863	20.624	ug/L	98
31) Carbon tetrachloride	5.521	117	184546	55.046	ug/L	98
33) Benzene	5.768	78	426496	46.770	ug/L	100
34) Trichloroethene	6.540	95	203577	82.089	ug/L	98

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

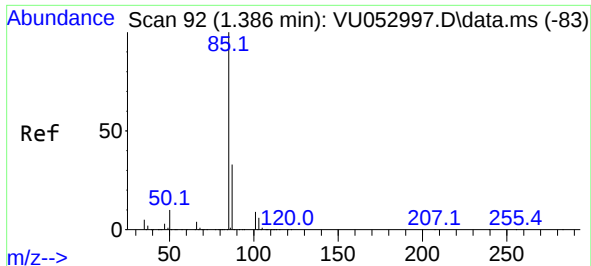
37) 1,2-Dichloropropane	6.787	63	93835	40.588	ug/L	99
38) Bromodichloromethane	7.103	83	65941	19.740	ug/L	100
39) cis-1,3-Dichloropropene	7.604	75	104473	26.288	ug/L	98
44) trans-1,3-Dichloropropene	8.205	75	161847	42.010	ug/L	100
45) 1,1,2-Trichloroethane	8.395	97	63695	26.748	ug/L	98
46) Tetrachloroethene	8.549	164	141143	71.863	ug/L	97
49) Dibromochloromethane	8.803	129	101634	35.328	ug/L	99
50) 1,2-Dibromoethane	8.919	107	83901	32.206	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.778	83	157488	42.410	ug/L	99
59) Bromoform	10.286	173	95388	45.467	ug/L	97
63) 1,2,4-Trimethylbenzene	11.463	105	457131	48.315	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.993	75	36820	45.974	ug/L	92

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

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MSVOA_U
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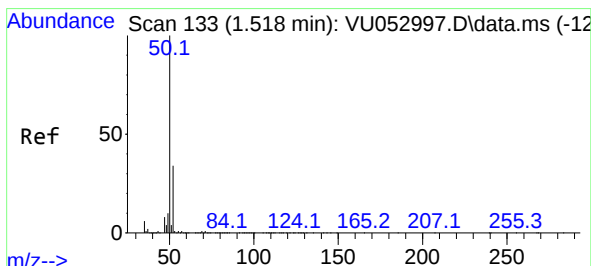
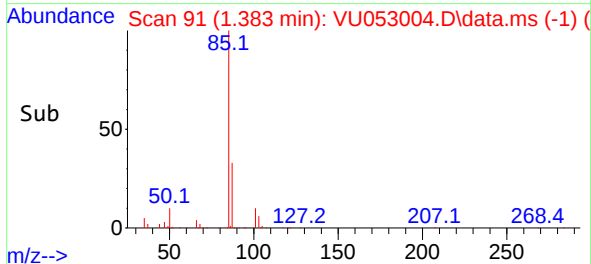
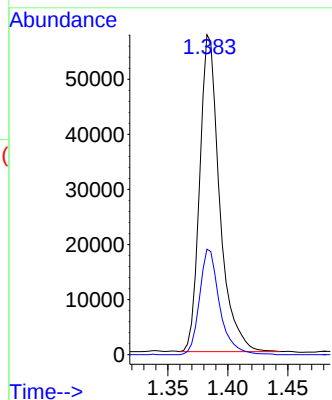
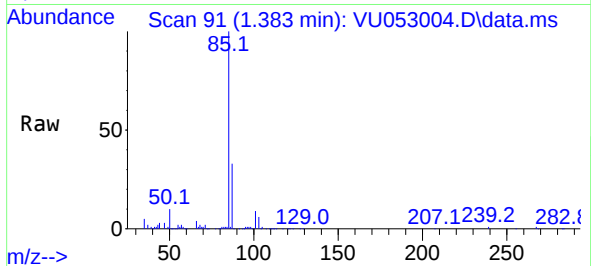




#2
 Dichlorodifluoromethane
 Concen: 26.574 ug/L
 RT: 1.383 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU053004.D
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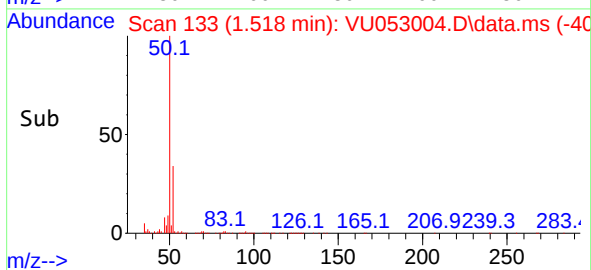
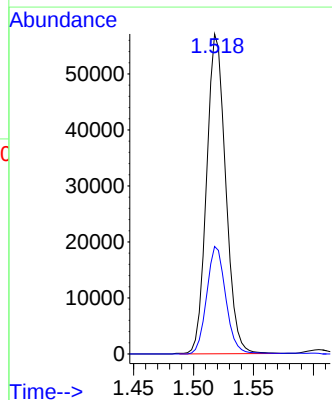
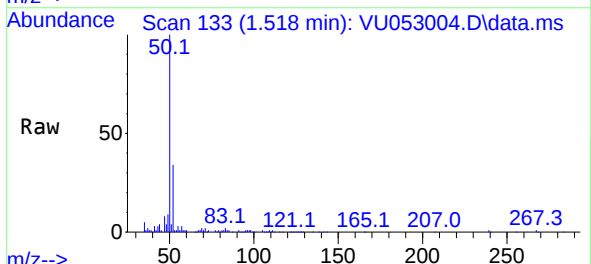
Instrument :
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 ClientSampleId :

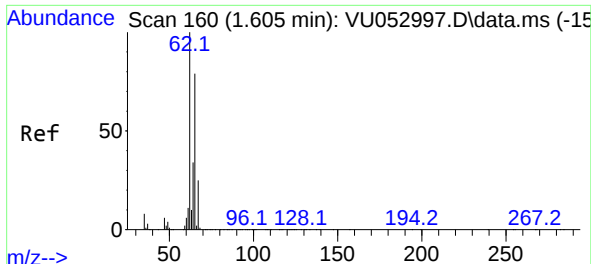
Tgt Ion: 85 Resp: 66421
 Ion Ratio Lower Upper
 85 100
 87 33.6 26.4 39.6



#3
 Chloromethane
 Concen: 27.388 ug/L
 RT: 1.518 min Scan# 133
 Delta R.T. -0.000 min
 Lab File: VU053004.D
 Acq: 08 Feb 2023 16:44

Tgt Ion: 50 Resp: 63108
 Ion Ratio Lower Upper
 50 100
 52 33.6 23.4 43.4

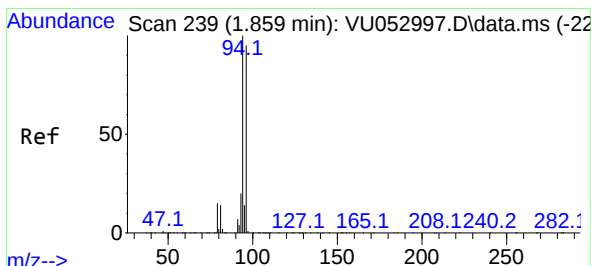
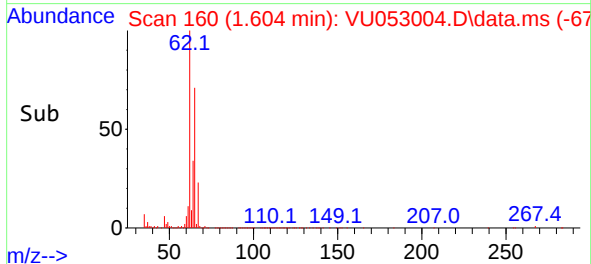
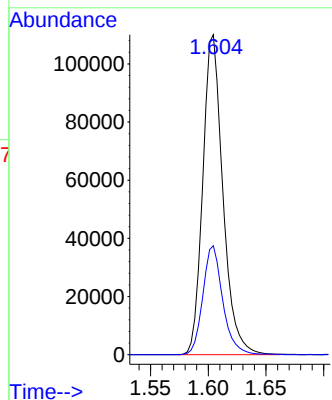
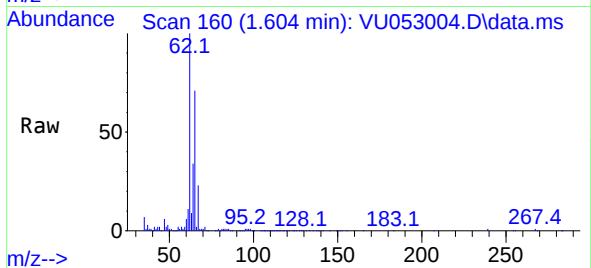




#5
 Vinyl chloride
 Concen: 47.048 ug/L
 RT: 1.604 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VU053004.D
 Acq: 08 Feb 2023 16:44

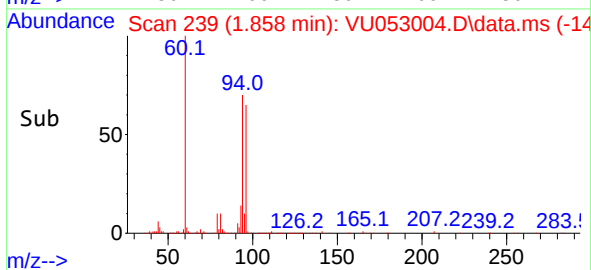
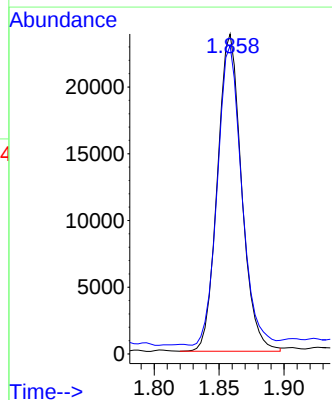
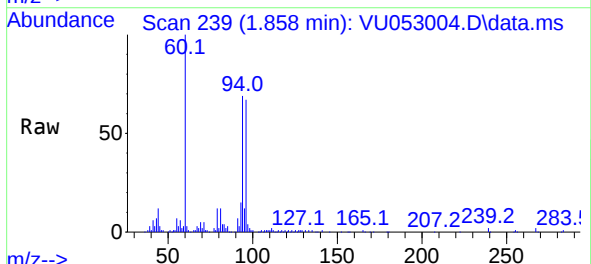
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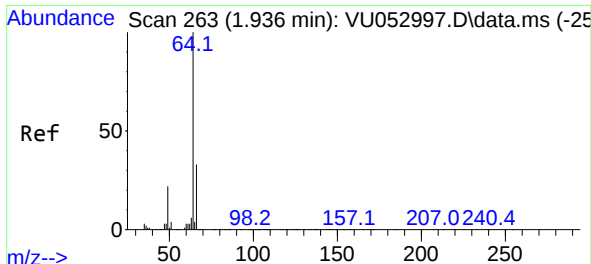
Tgt Ion: 62 Resp: 133476
 Ion Ratio Lower Upper
 62 100
 64 34.0 22.4 41.6



#6
 Bromomethane
 Concen: 15.676 ug/L
 RT: 1.858 min Scan# 239
 Delta R.T. -0.000 min
 Lab File: VU053004.D
 Acq: 08 Feb 2023 16:44

Tgt Ion: 94 Resp: 30696
 Ion Ratio Lower Upper
 94 100
 96 96.3 67.8 125.8

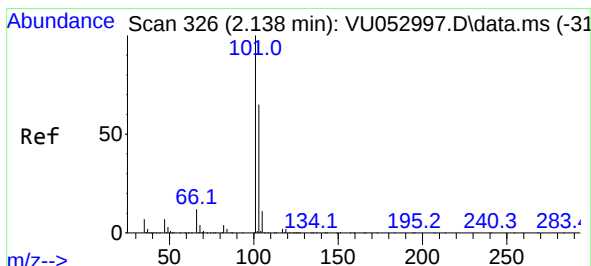
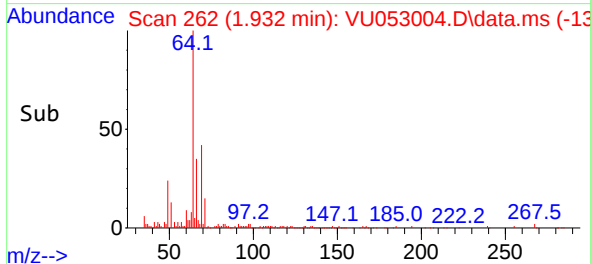
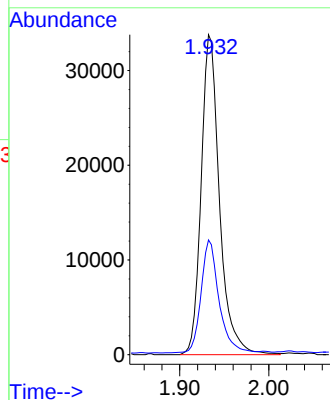
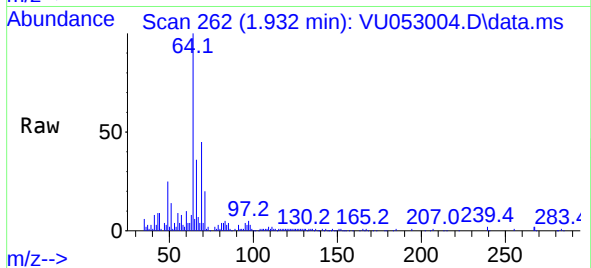




#8
Chloroethane
Concen: 27.733 ug/L
RT: 1.932 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

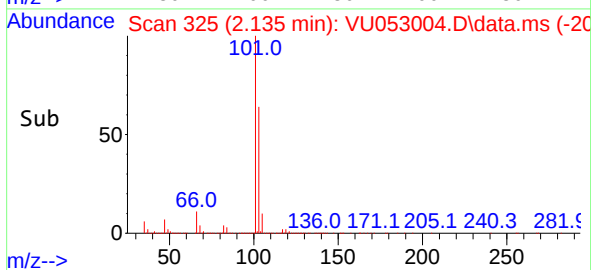
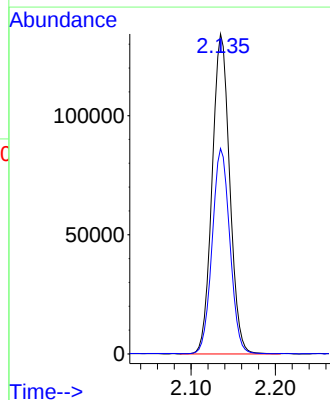
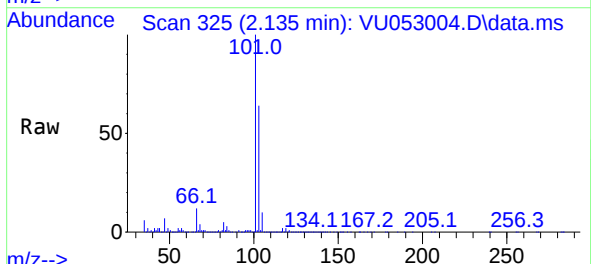
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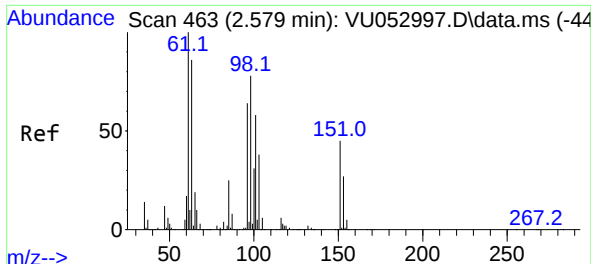
Tgt Ion: 64 Resp: 48229
Ion Ratio Lower Upper
64 100
66 35.9 24.1 44.7



#9
Trichlorofluoromethane
Concen: 44.792 ug/L
RT: 2.135 min Scan# 325
Delta R.T. -0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 101 Resp: 194550
Ion Ratio Lower Upper
101 100
103 64.2 52.0 78.0

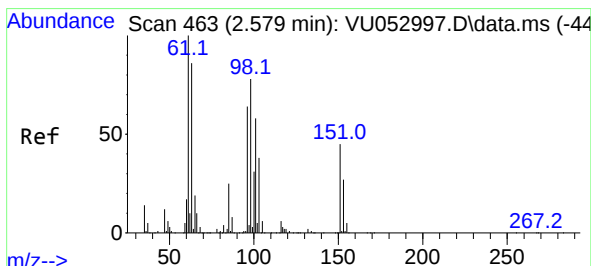
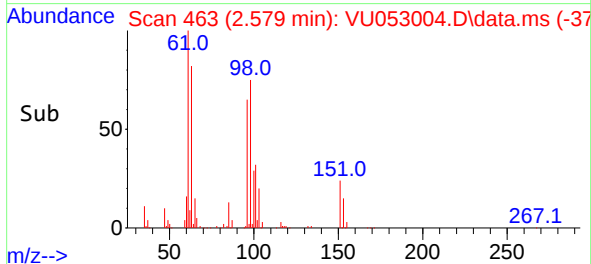
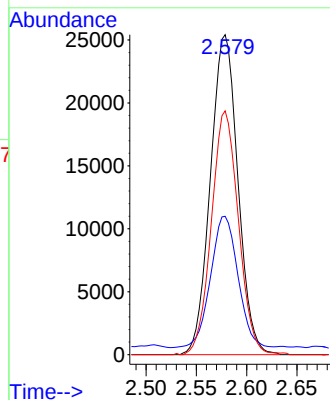
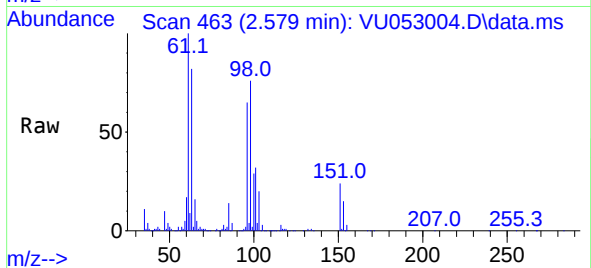




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 22.134 ug/L
RT: 2.579 min Scan# 463
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

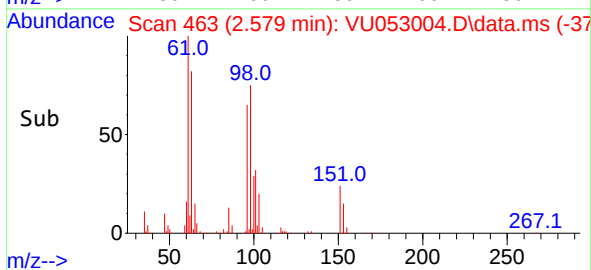
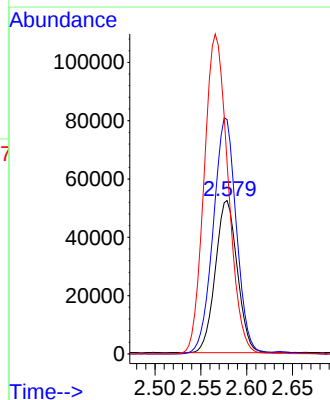
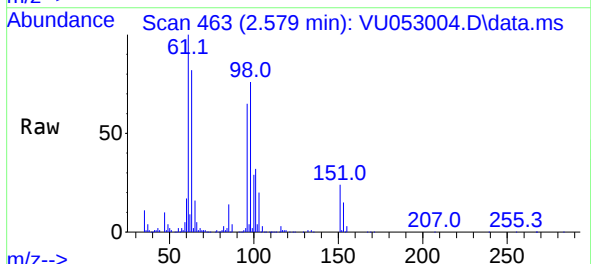
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MSVOA_U
ClientSampleId :

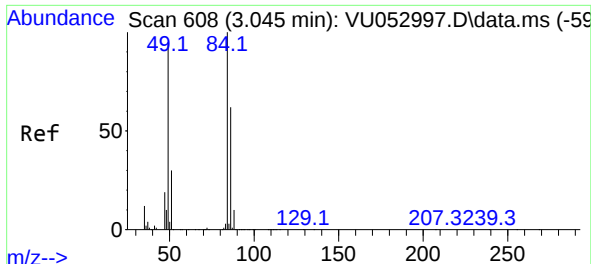
Tgt Ion:101 Resp: 48432
Ion Ratio Lower Upper
101 100
85 40.9 32.9 49.3
151 74.9 62.6 94.0



#12
1,1-Dichloroethene
Concen: 41.653 ug/L
RT: 2.579 min Scan# 463
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 96 Resp: 86837
Ion Ratio Lower Upper
96 100
61 152.7 114.3 212.3
63 124.7 80.6 149.6

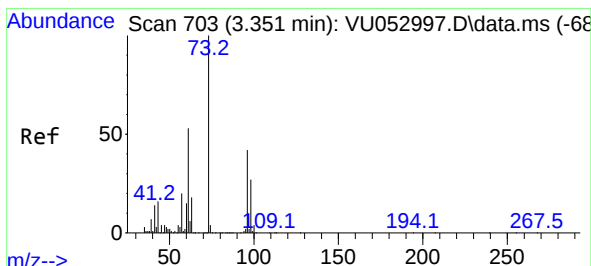
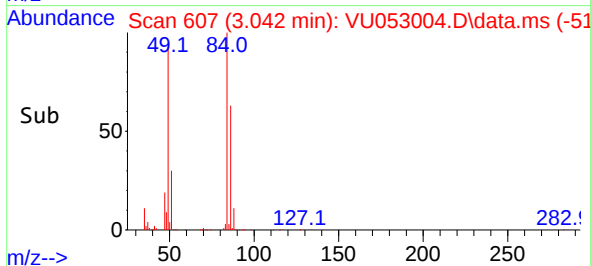
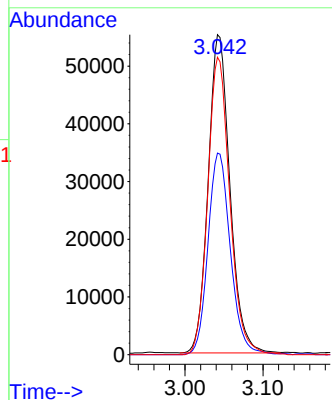
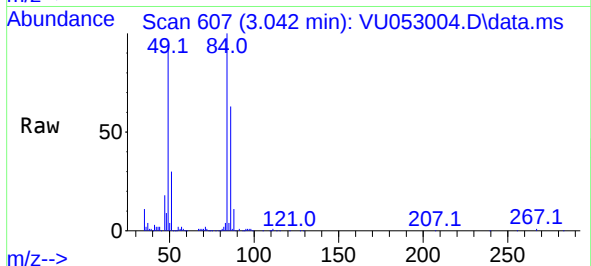




#16
Methylene chloride
Concen: 42.509 ug/L
RT: 3.042 min Scan# 608
Delta R.T. -0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

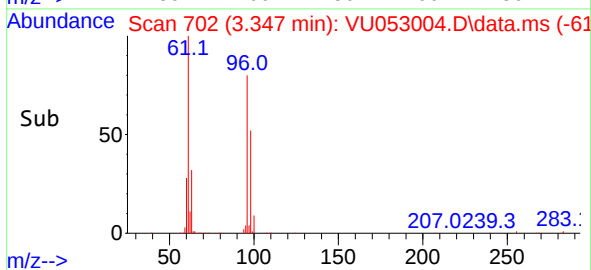
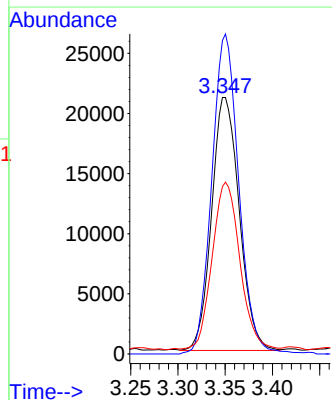
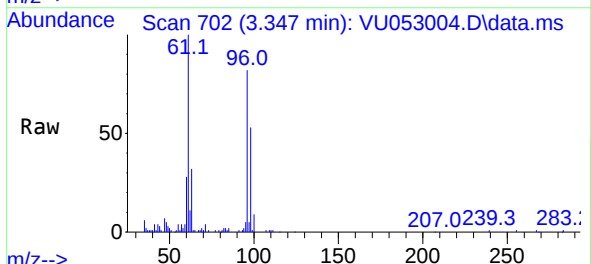
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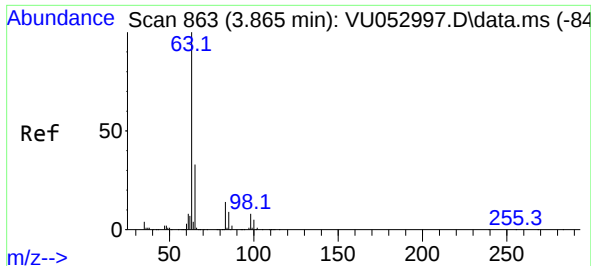
Tgt Ion: 84 Resp: 106965
Ion Ratio Lower Upper
84 100
86 63.0 43.4 80.6
49 93.0 72.4 134.5



#17
trans-1,2-Dichloroethene
Concen: 19.207 ug/L
RT: 3.347 min Scan# 702
Delta R.T. -0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

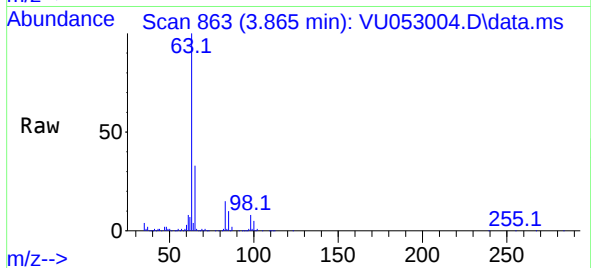
Tgt Ion: 96 Resp: 42827
Ion Ratio Lower Upper
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98 65.3 44.7 82.9



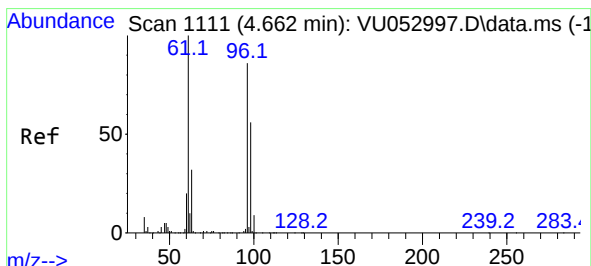
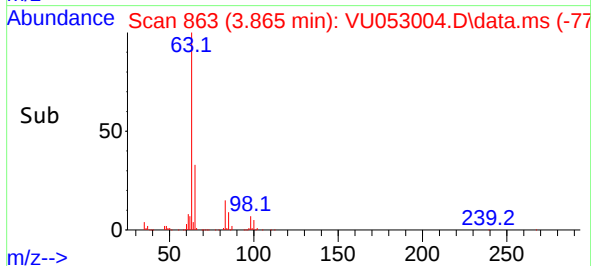
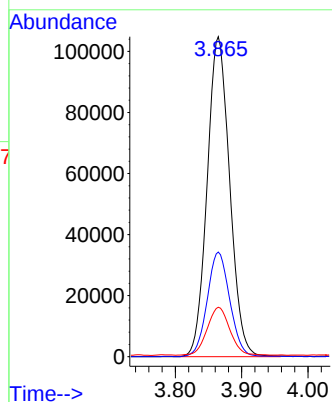


#19
1,1-Dichloroethane
Concen: 64.709 ug/L
RT: 3.865 min Scan# 863
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Instrument :
MSVOA_U
ClientSampleId :

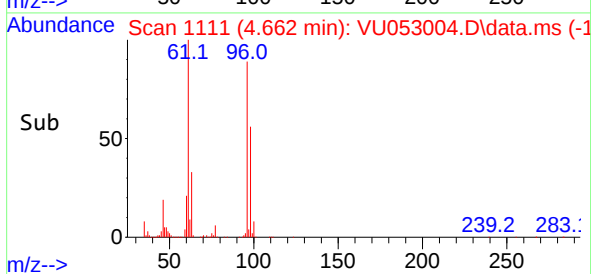
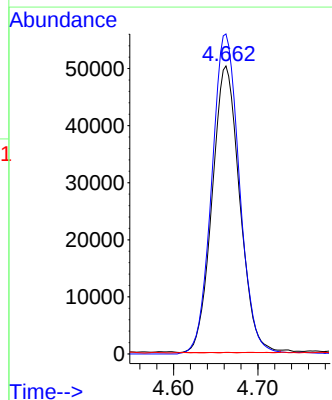
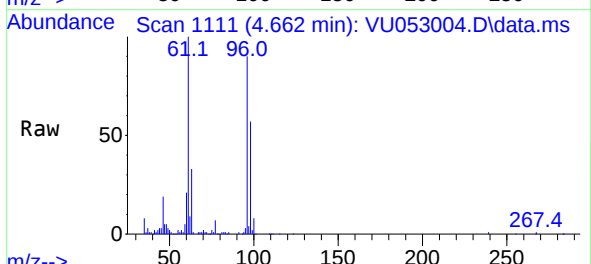


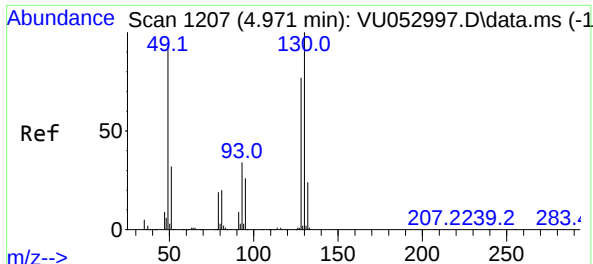
Tgt Ion: 63 Resp: 247299
Ion Ratio Lower Upper
63 100
65 32.7 22.4 41.6
83 15.5 9.2 17.2



#20
cis-1,2-Dichloroethene
Concen: 45.260 ug/L
RT: 4.662 min Scan# 1111
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

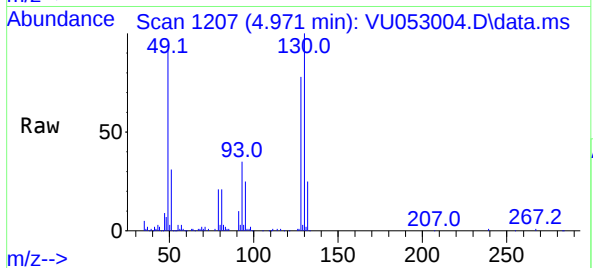
Tgt Ion: 96 Resp: 113870
Ion Ratio Lower Upper
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61 111.1 84.1 156.1
68 0.6 0.0 0.0#



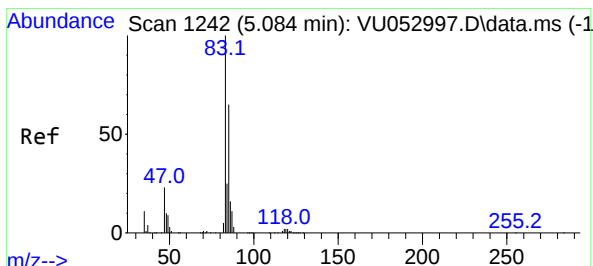
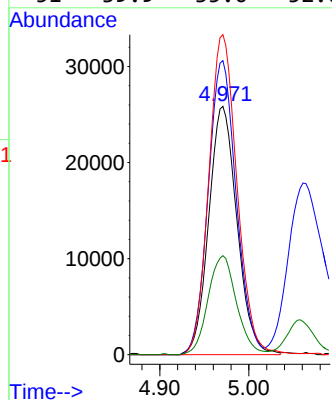
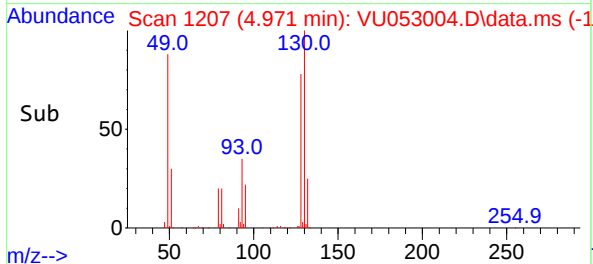


#23
Bromochloromethane
Concen: 42.000 ug/L
RT: 4.971 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Instrument :
MSVOA_U
ClientSampleId :

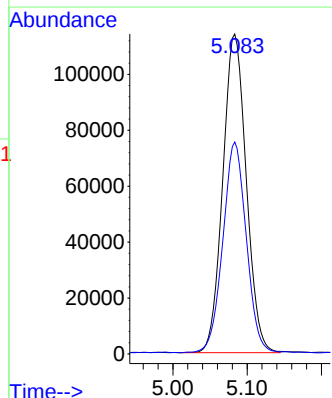
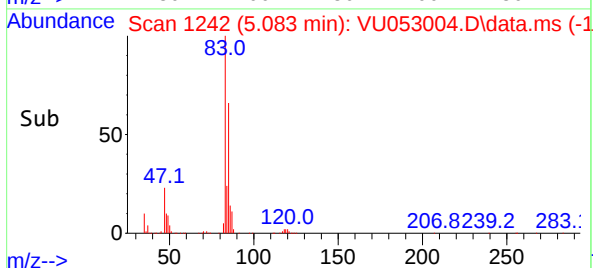
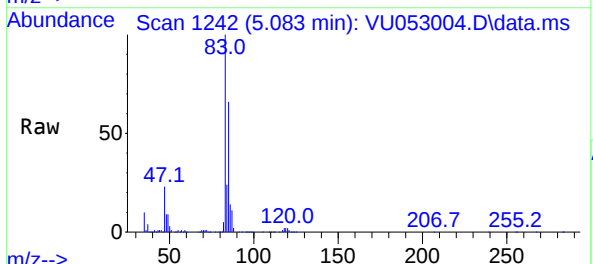


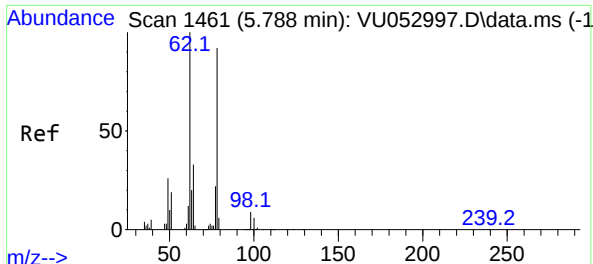
Tgt Ion:128 Resp: 56981
Ion Ratio Lower Upper
128 100
49 118.4 90.1 167.3
130 128.8 90.1 167.3
51 39.9 35.0 52.6



#25
Chloroform
Concen: 58.600 ug/L
RT: 5.083 min Scan# 1242
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 83 Resp: 250389
Ion Ratio Lower Upper
83 100
85 66.3 45.8 85.0

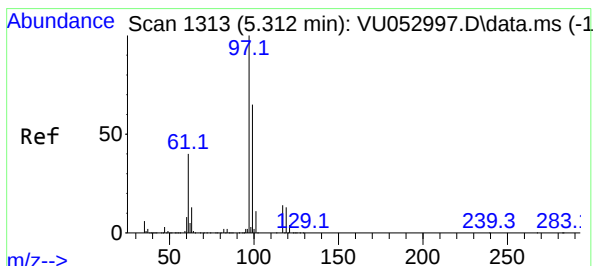
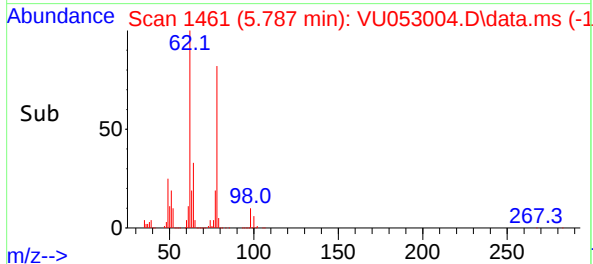
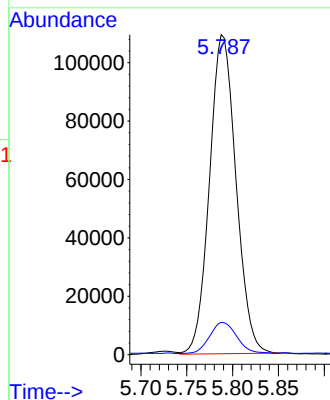
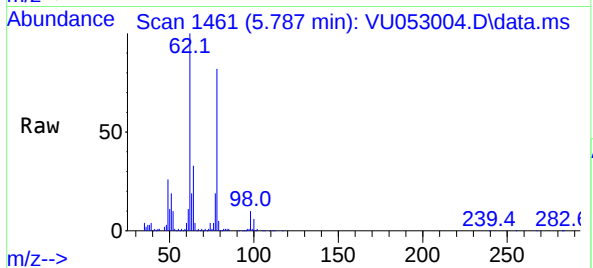




#27
1,2-Dichloroethane
Concen: 71.913 ug/L
RT: 5.787 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

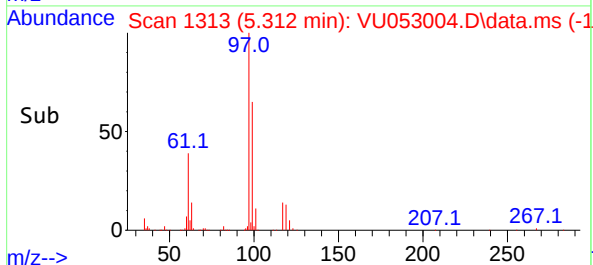
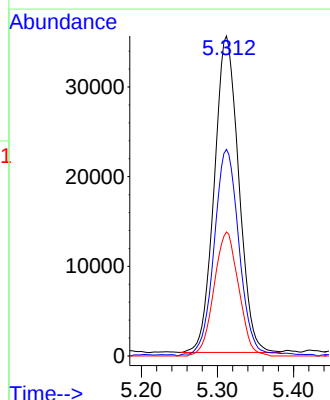
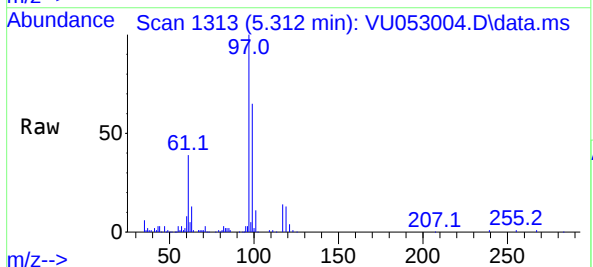
Instrument :
MSVOA_U
ClientSampleId :

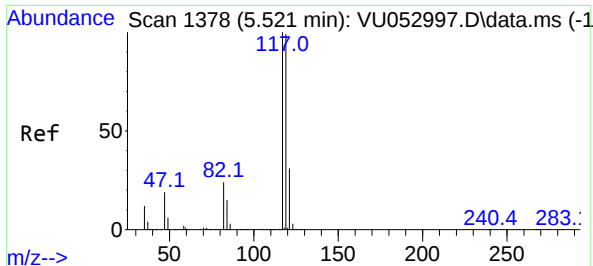
Tgt Ion: 62 Resp: 219653
Ion Ratio Lower Upper
62 100
98 10.1 7.6 11.4



#30
1,1,1-Trichloroethane
Concen: 20.624 ug/L
RT: 5.312 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 97 Resp: 78863
Ion Ratio Lower Upper
97 100
99 64.9 51.4 77.0
61 39.4 33.0 49.6

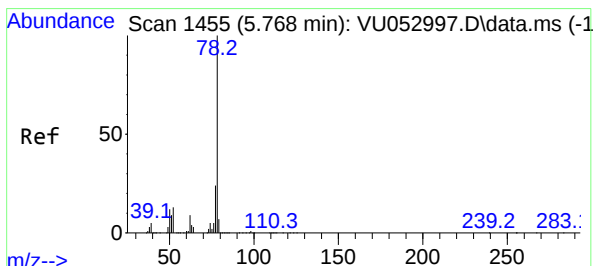
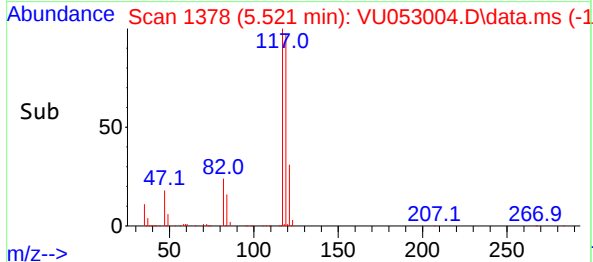
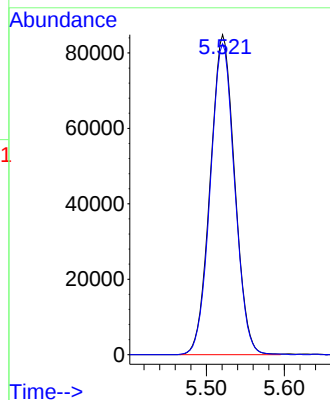
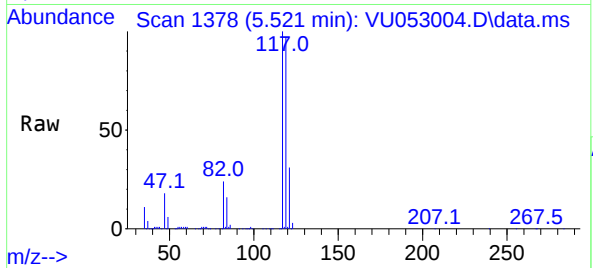




#31
Carbon tetrachloride
Concen: 55.046 ug/L
RT: 5.521 min Scan# 117
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

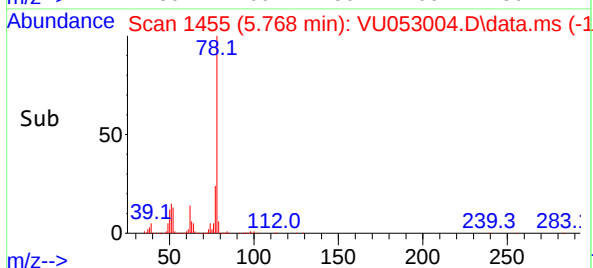
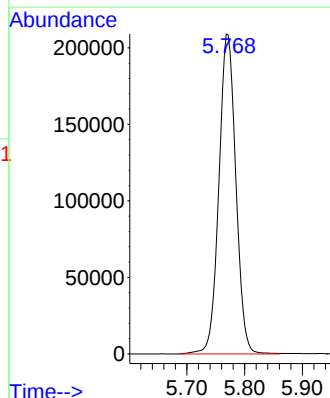
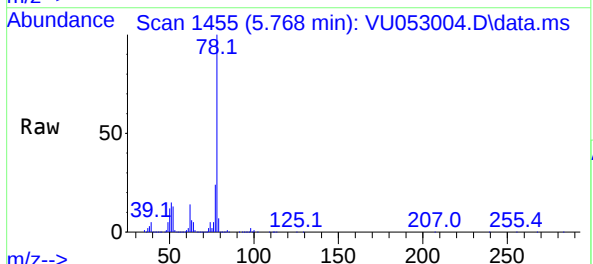
Instrument :
MSVOA_U
ClientSampleId :

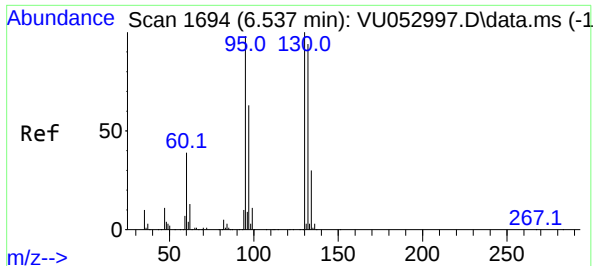
Tgt Ion:117 Resp: 184546
Ion Ratio Lower Upper
117 100
119 96.9 76.2 114.4



#33
Benzene
Concen: 46.770 ug/L
RT: 5.768 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

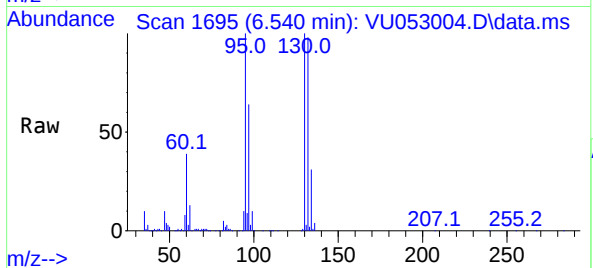
Tgt Ion: 78 Resp: 426496



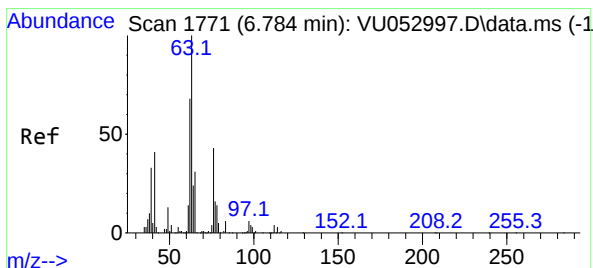
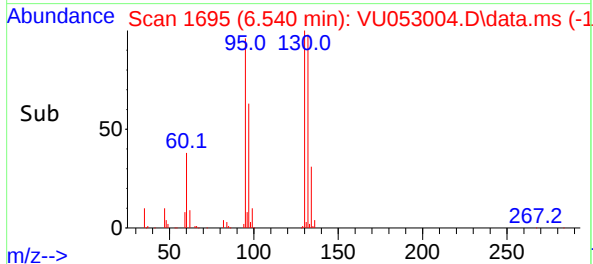
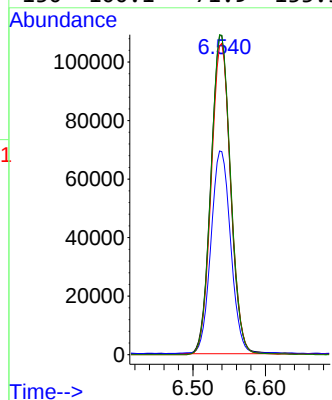


#34
Trichloroethene
Concen: 82.089 ug/L
RT: 6.540 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Instrument :
MSVOA_U
ClientSampleId :

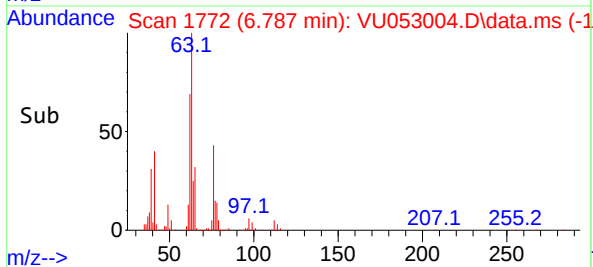
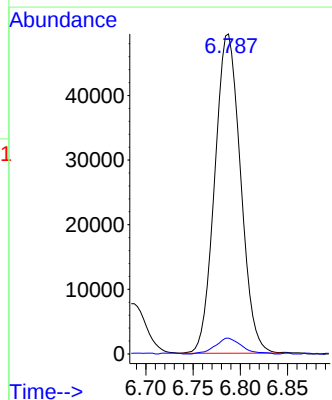
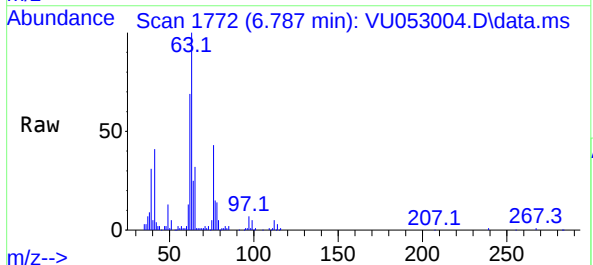


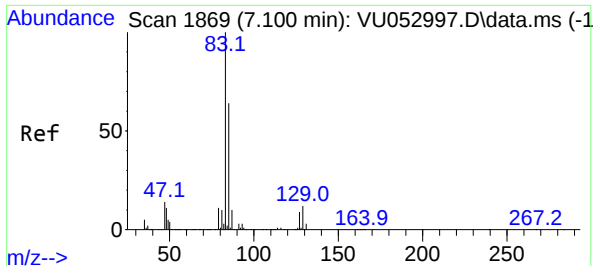
Tgt Ion: 95 Resp: 203577
Ion Ratio Lower Upper
95 100
97 63.7 44.5 82.7
132 97.6 66.8 124.0
130 100.1 71.9 133.5



#37
1,2-Dichloropropane
Concen: 40.588 ug/L
RT: 6.787 min Scan# 1772
Delta R.T. 0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 63 Resp: 93835
Ion Ratio Lower Upper
63 100
112 5.1 3.8 5.8

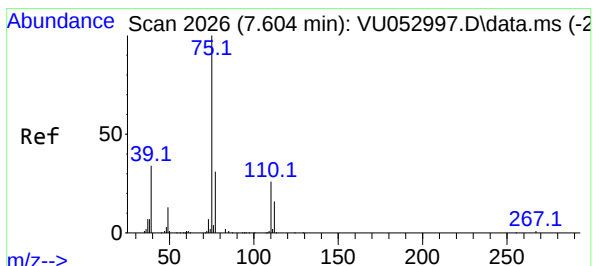
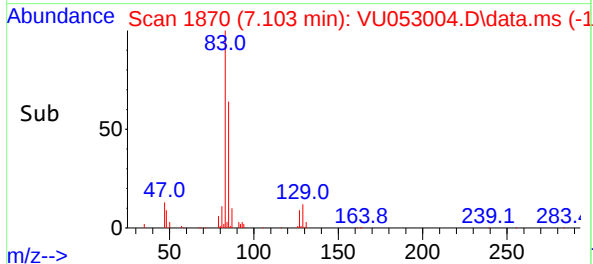
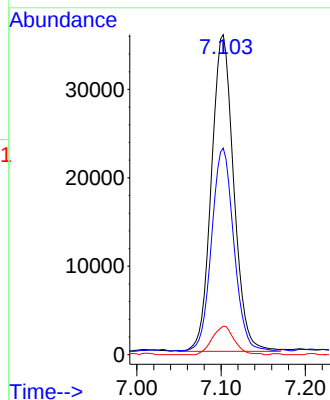
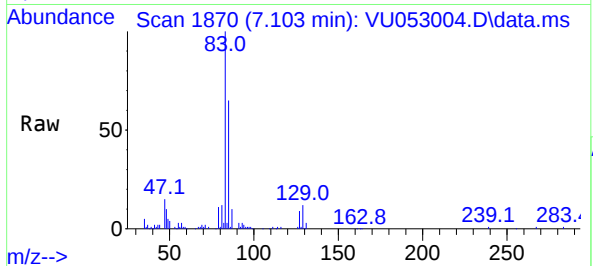




#38
Bromodichloromethane
Concen: 19.740 ug/L
RT: 7.103 min Scan# 1869
Delta R.T. 0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

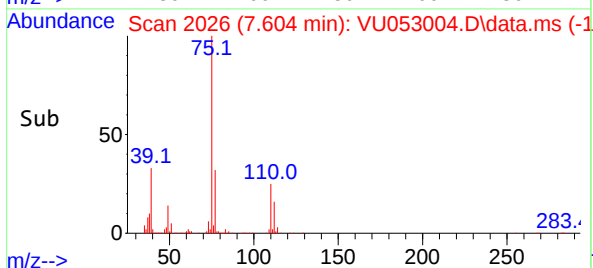
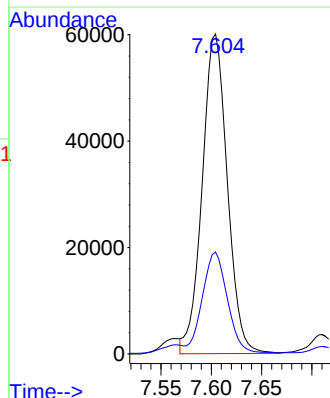
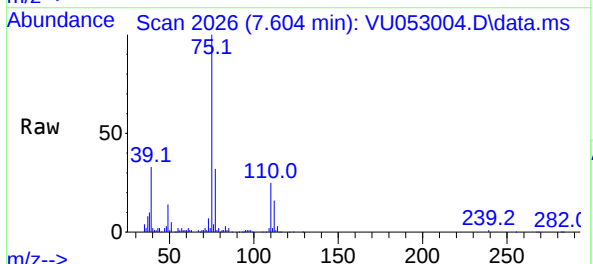
Instrument :
MSVOA_U
ClientSampleId :

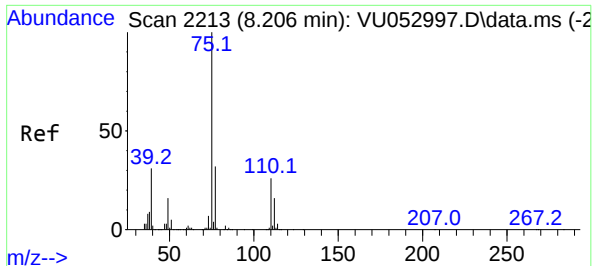
Tgt Ion: 83 Resp: 65941
Ion Ratio Lower Upper
83 100
85 64.5 45.2 84.0
127 8.9 7.4 11.0



#39
cis-1,3-Dichloropropene
Concen: 26.288 ug/L
RT: 7.604 min Scan# 2026
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 75 Resp: 104473
Ion Ratio Lower Upper
75 100
77 31.9 21.6 40.0

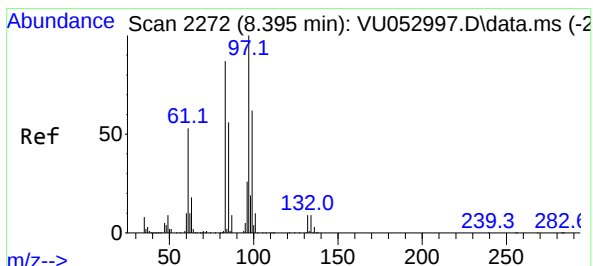
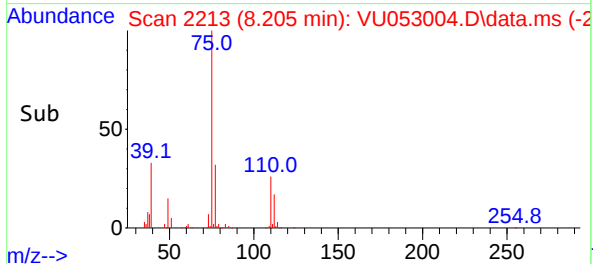
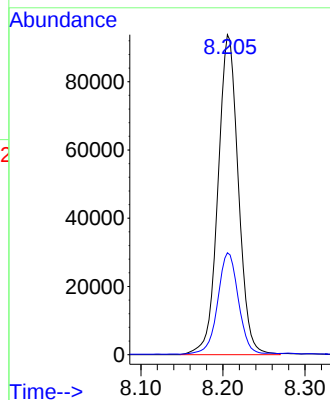
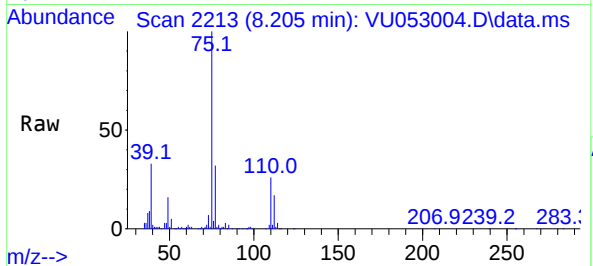




#44
trans-1,3-Dichloropropene
Concen: 42.010 ug/L
RT: 8.205 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

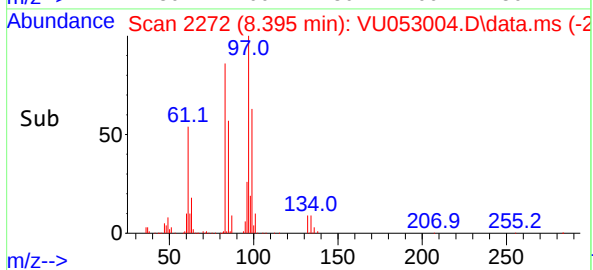
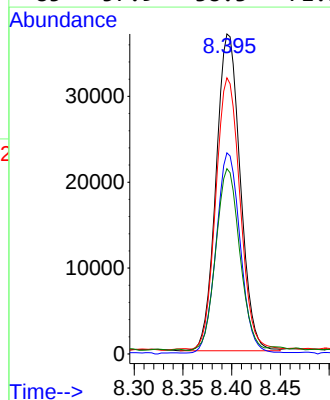
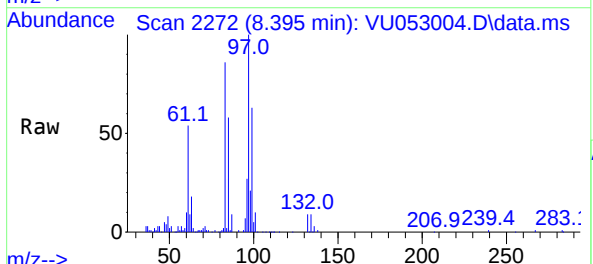
Instrument :
MSVOA_U
ClientSampleId :

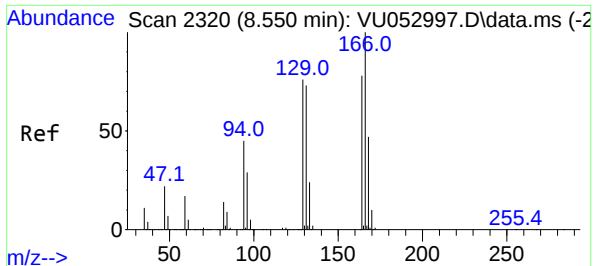
Tgt Ion: 75 Resp: 161847
Ion Ratio Lower Upper
75 100
77 31.9 22.3 41.3



#45
1,1,2-Trichloroethane
Concen: 26.748 ug/L
RT: 8.395 min Scan# 2272
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 97 Resp: 63695
Ion Ratio Lower Upper
97 100
99 62.8 44.7 83.1
83 86.3 60.3 112.1
85 57.9 38.3 71.1





#46

Tetrachloroethene

Concen: 71.863 ug/L

RT: 8.549 min Scan# 21

Delta R.T. -0.000 min

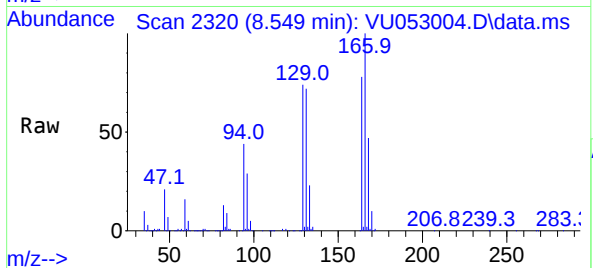
Lab File: VU053004.D

Acq: 08 Feb 2023 16:44

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 141143

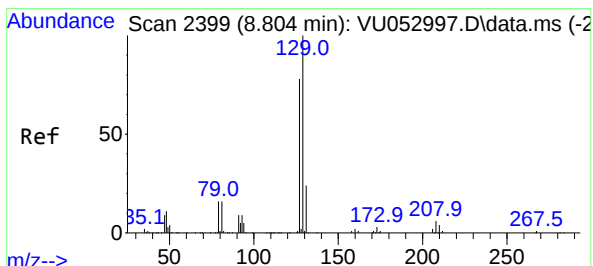
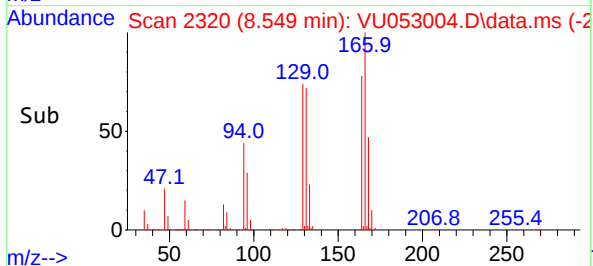
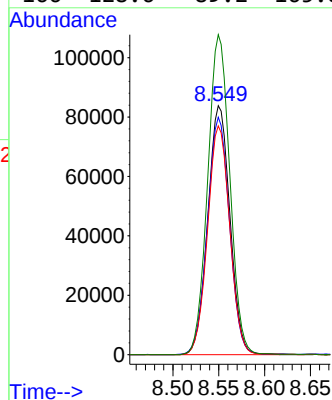
Ion Ratio Lower Upper

164 100

129 95.4 64.8 120.3

131 91.9 61.2 113.6

166 128.6 89.2 165.8



#49

Dibromochloromethane

Concen: 35.328 ug/L

RT: 8.803 min Scan# 2399

Delta R.T. -0.000 min

Lab File: VU053004.D

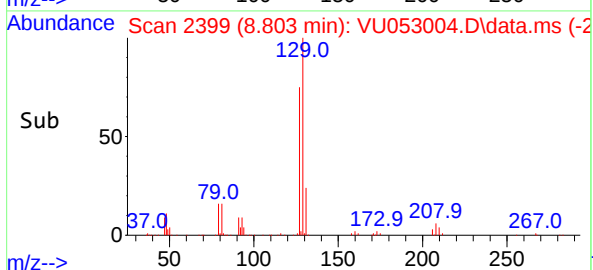
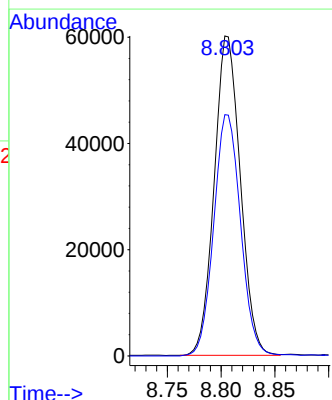
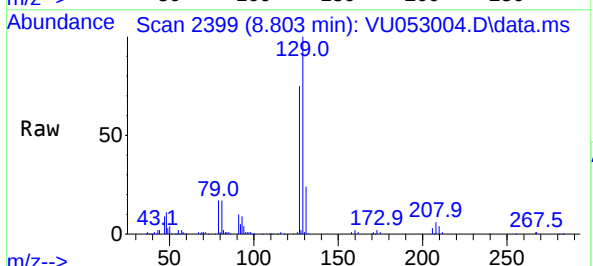
Acq: 08 Feb 2023 16:44

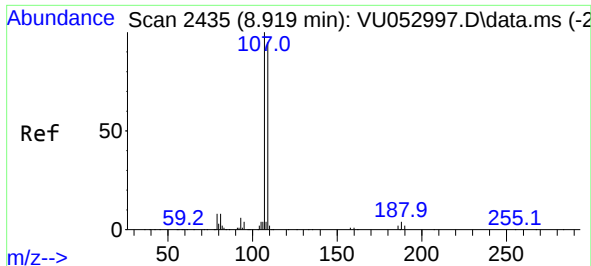
Tgt Ion:129 Resp: 101634

Ion Ratio Lower Upper

129 100

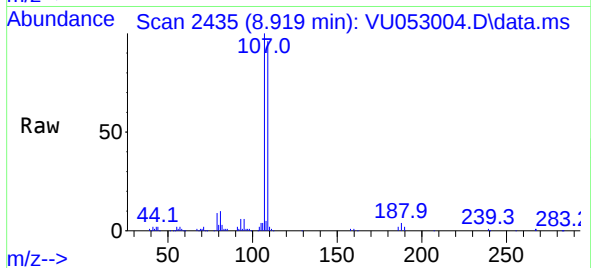
127 75.4 53.2 98.8



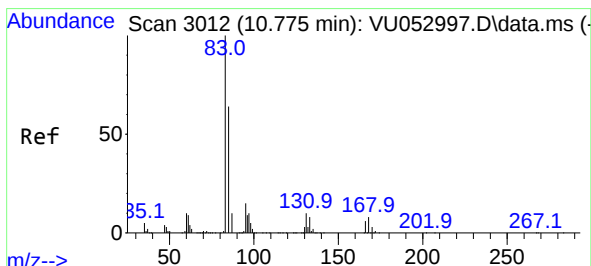
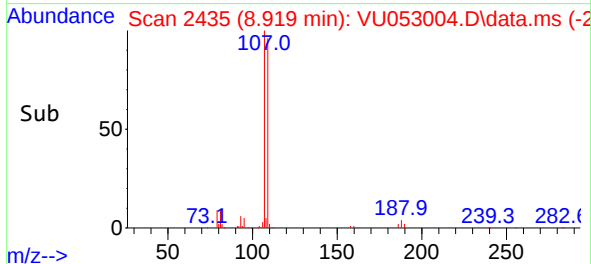
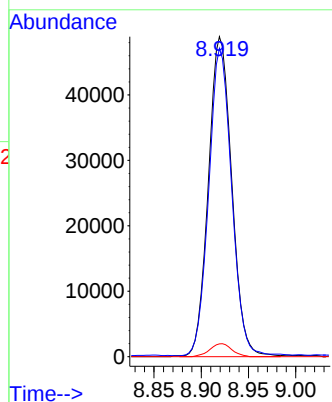


#50
1,2-Dibromoethane
Concen: 32.206 ug/L
RT: 8.919 min Scan# 2435
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Instrument :
MSVOA_U
ClientSampleId :

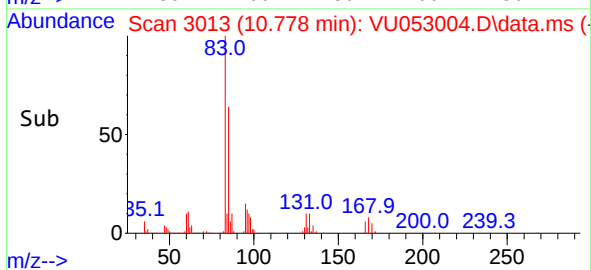
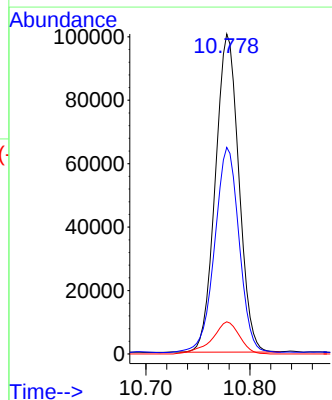
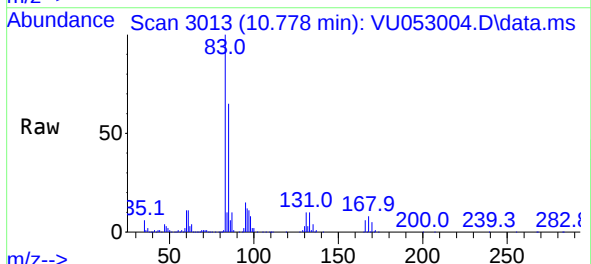


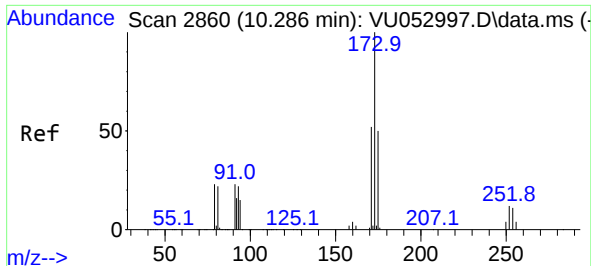
Tgt Ion:107 Resp: 83901
Ion Ratio Lower Upper
107 100
109 96.4 65.5 121.6
188 4.0 3.2 4.8



#57
1,1,2,2-Tetrachloroethane
Concen: 42.410 ug/L
RT: 10.778 min Scan# 3013
Delta R.T. 0.003 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

Tgt Ion: 83 Resp: 157488
Ion Ratio Lower Upper
83 100
85 64.5 45.0 83.6
131 10.0 8.6 12.8

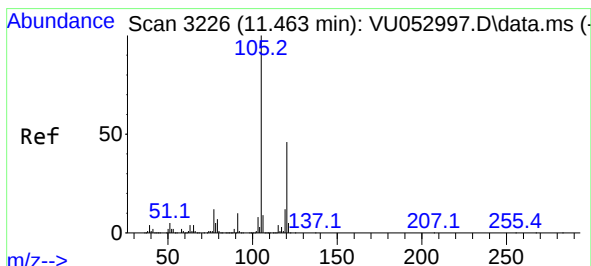
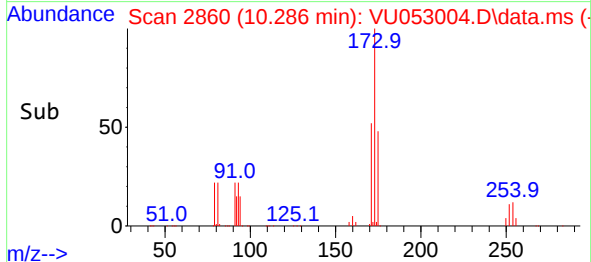
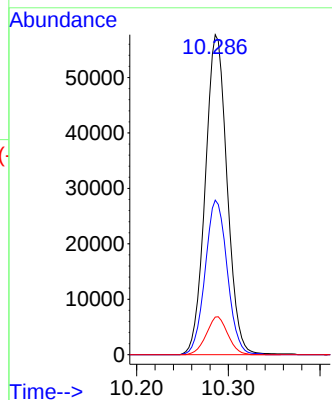
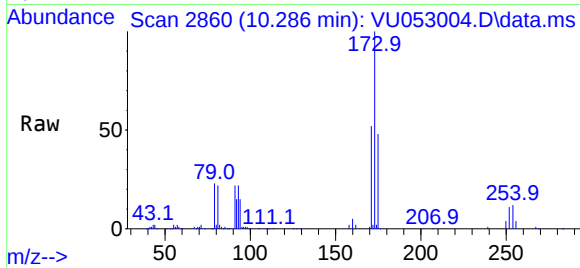




#59
Bromoform
Concen: 45.467 ug/L
RT: 10.286 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

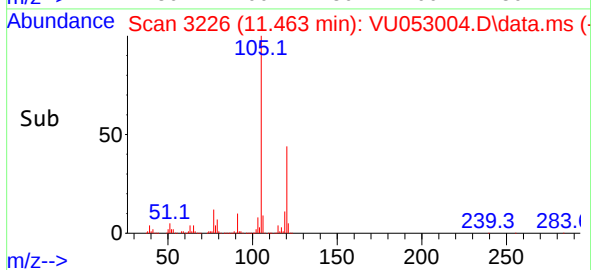
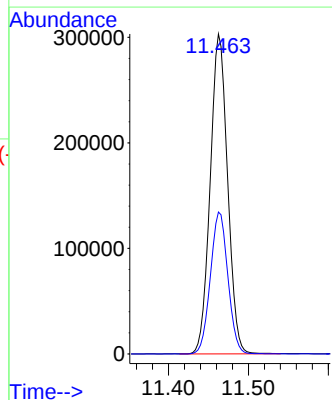
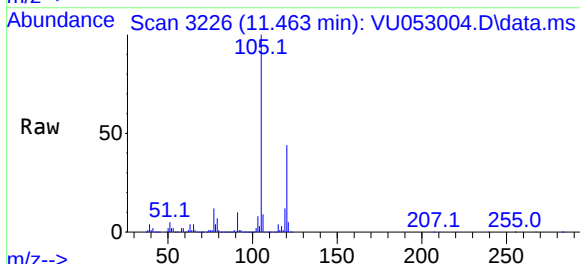
Instrument :
MSVOA_U
ClientSampleId :

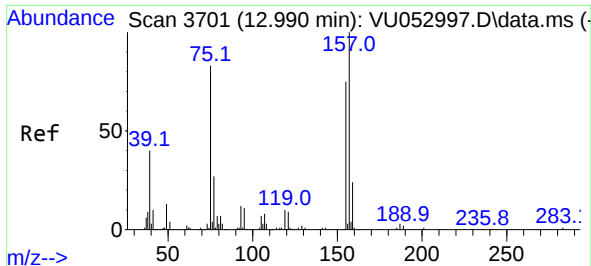
Tgt Ion:173 Resp: 95388
Ion Ratio Lower Upper
173 100
175 48.9 37.7 56.5
254 11.6 8.3 12.5



#63
1,2,4-Trimethylbenzene
Concen: 48.315 ug/L
RT: 11.463 min Scan# 3226
Delta R.T. -0.000 min
Lab File: VU053004.D
Acq: 08 Feb 2023 16:44

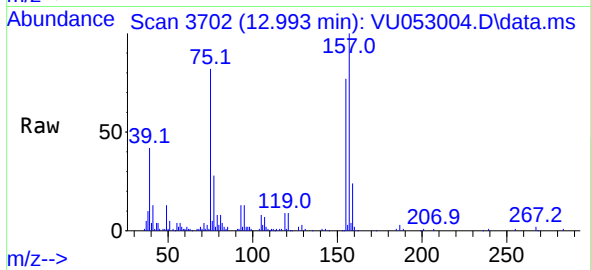
Tgt Ion:105 Resp: 457131
Ion Ratio Lower Upper
105 100
120 44.7 38.1 57.1





#68
 1,2-Dibromo-3-chloropropane
 Concen: 45.974 ug/L
 RT: 12.993 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU053004.D
 Acq: 08 Feb 2023 16:44

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 36820

Ion	Ratio	Lower	Upper
75	100		
155	93.7	69.2	103.8
157	122.3	91.2	136.8

