

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030121\
 Data File : VU042462.D
 Acq On : 01 Mar 2021 14:36
 Operator : SY/MD
 Sample : M1496-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X3163

Quant Time: Mar 02 14:47:42 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030121WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Mar 02 14:41:09 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.260	114	102740	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.427	117	102094	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.822	152	54800	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	20958	4.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.20%
7) Chloroethane-d5	1.919	69	22829	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.00%
11) 1,1-Dichloroethene-d2	2.572	65	13820	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	4.646	46	110594	42.55	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.10%
24) Chloroform-d	5.073	84	71540	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	5.713	65	41613	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	5.739	84	119614	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.700	67	41732	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.906	98	116313	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
43) trans-1,3-Dichloroprop...	8.189	79	16435	4.75	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.00%
46) 2-Hexanone-d5	8.646	63	93798	49.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.00%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	36996	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.80%
66) 1,2-Dichlorobenzene-d4	12.202	152	48616	5.10	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.00%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.389	85	30647	3.14	ug/L	97
5) Vinyl chloride	1.607	62	31045	3.47	ug/L	93
8) Chloroethane	1.938	64	77950	14.47	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.588	101	92067	12.28	ug/L	98
12) 1,1-Dichloroethene	2.585	96	17139	2.43	ug/L	# 62
13) Acetone	2.655	43	289174	161.40	ug/L	84
15) Methyl Acetate	2.964	43	44610	10.74	ug/L	98
16) Methylene chloride	3.057	84	4664	0.58	ug/L	99
18) trans-1,2-Dichloroethene	3.363	96	21204	2.82	ug/L	96
19) 1,1-Dichloroethane	3.880	63	34259	2.34	ug/L	100
22) cis-1,2-Dichloroethene	4.678	96	36843	4.57	ug/L	99
23) Bromochloromethane	4.986	128	21895	5.65	ug/L	97
25) Chloroform	5.099	83	137773	9.02	ug/L	99
27) 1,2-Dichloroethane	5.803	62	25085	2.19	ug/L	99
29) 1,1,1-Trichloroethane	5.327	97	31559	2.19	ug/L	99
31) Carbon tetrachloride	5.533	117	39647	3.25	ug/L	98
34) Trichloroethene	6.552	95	21757	2.54	ug/L	97
39) cis-1,3-Dichloropropene	7.617	75	66646	5.18	ug/L	99
40) 4-Methyl-2-pentanone	7.803	43	496668	66.18	ug/L	100

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

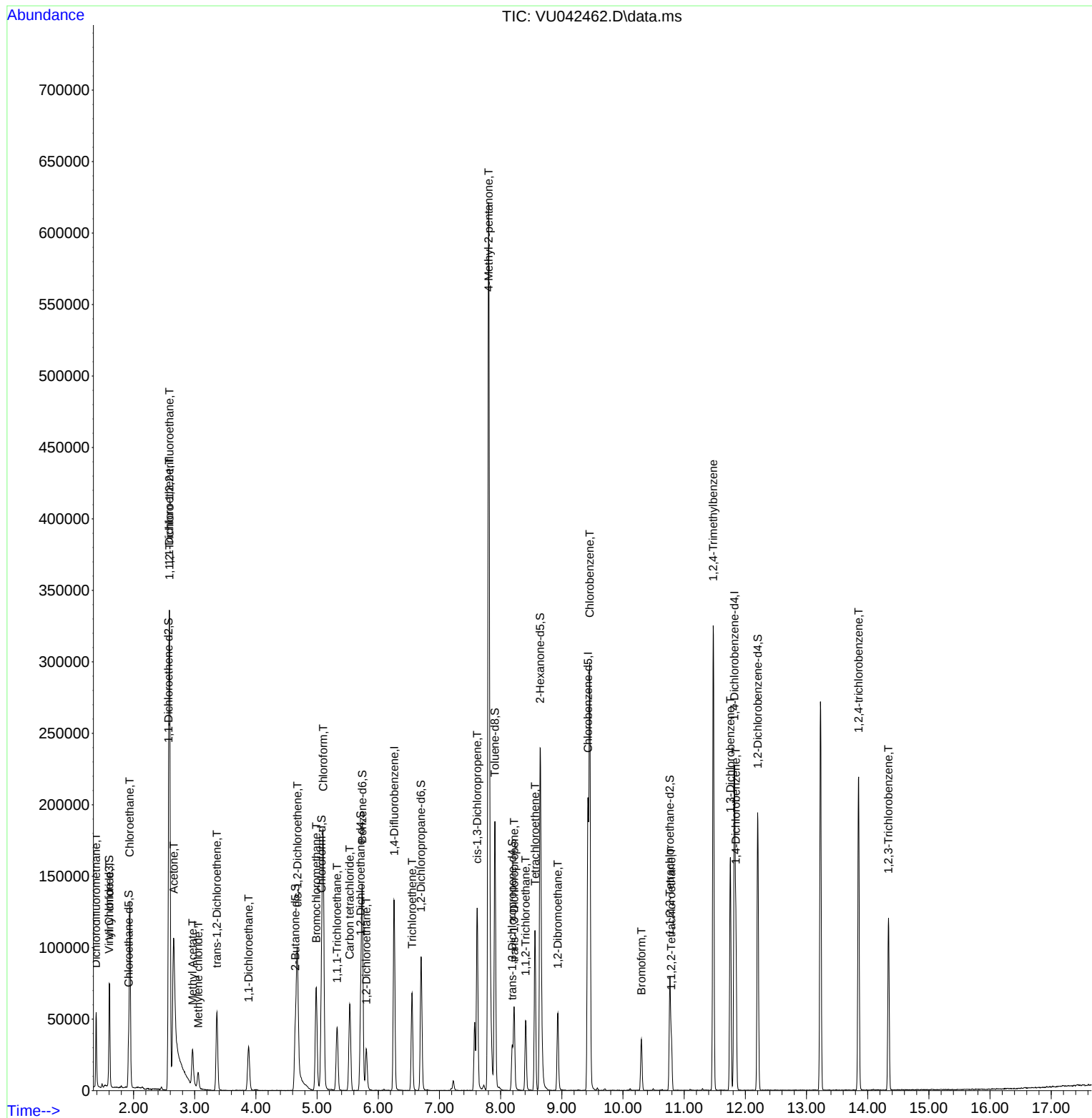
44) trans-1,3-Dichloropropene	8.221	75	31006	2.68	ug/L	100
45) 1,1,2-Trichloroethane	8.408	97	14425	2.30	ug/L	97
47) Tetrachloroethene	8.562	164	24144	3.43	ug/L	98
50) 1,2-Dibromoethane	8.935	107	36148	5.62	ug/L	98
51) Chlorobenzene	9.456	112	145727	6.64	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.790	83	14253	1.68	ug/L	98
59) Bromoform	10.301	173	15970	3.24	ug/L	99
63) 1,2,4-Trimethylbenzene	11.475	105	167716	5.35	ug/L	100
64) 1,3-Dichlorobenzene	11.755	146	63252	3.51	ug/L	97
65) 1,4-Dichlorobenzene	11.845	146	42393	2.37	ug/L	97
70) 1,2,4-trichlorobenzene	13.851	180	65542	5.66	ug/L	96
72) 1,2,3-Trichlorobenzene	14.340	180	35645	3.41	ug/L	99

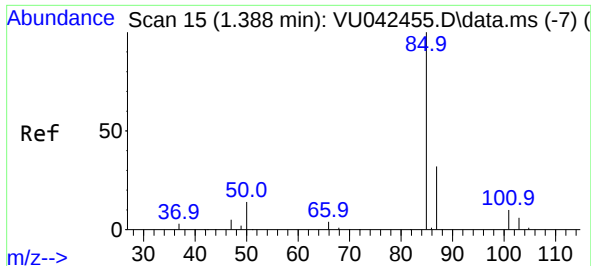
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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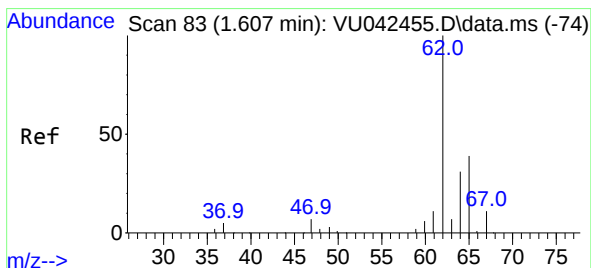
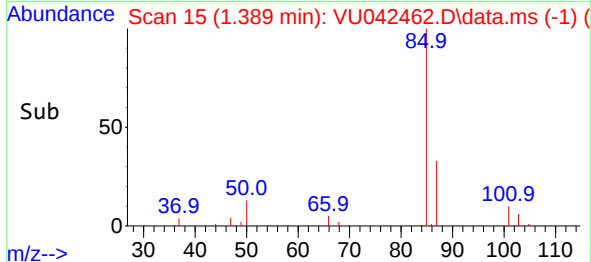
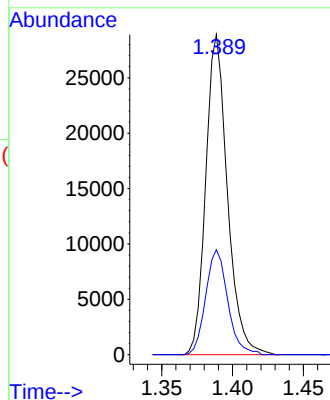
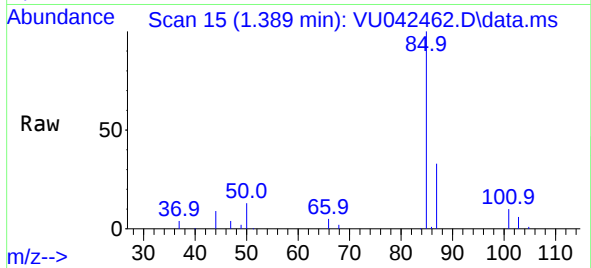




#2
Dichlorodifluoromethane
Concen: 3.14 ug/L
RT: 1.389 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

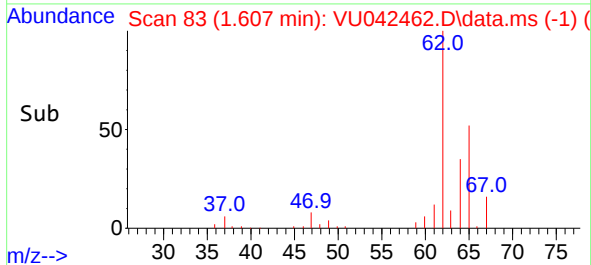
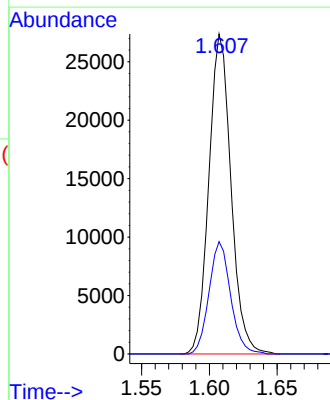
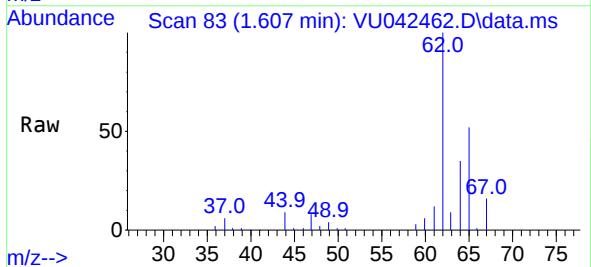
Tgt Ion: 85 Resp: 30647
Ion Ratio Lower Upper
85 100
87 33.4 25.4 38.2

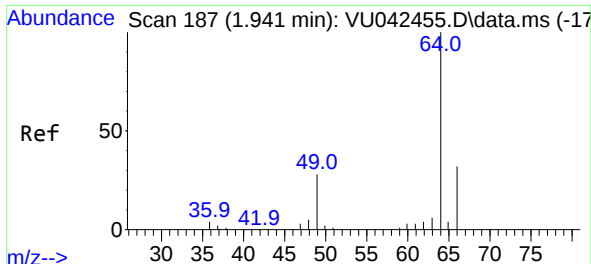
Instrument :
MSVOA_U
ClientSampleId :
X3163



#5
Vinyl chloride
Concen: 3.47 ug/L
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 62 Resp: 31045
Ion Ratio Lower Upper
62 100
64 35.1 21.7 40.3

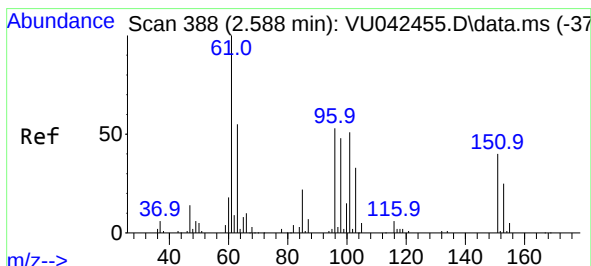
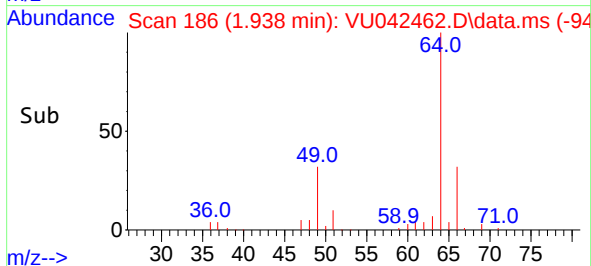
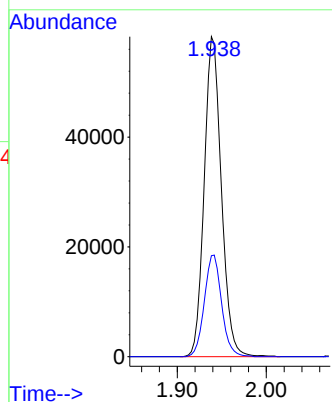
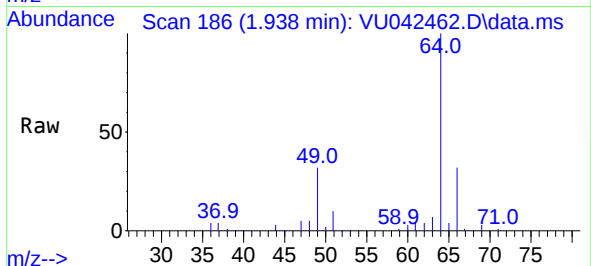




#8
Chloroethane
Concen: 14.47 ug/L
RT: 1.938 min Scan# 186
Delta R.T. -0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

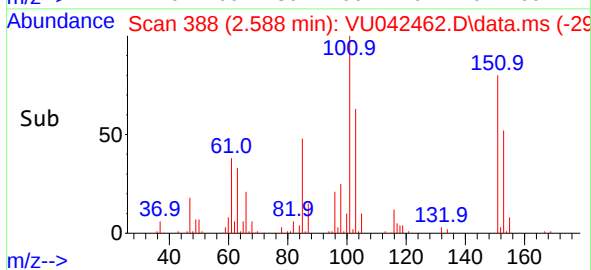
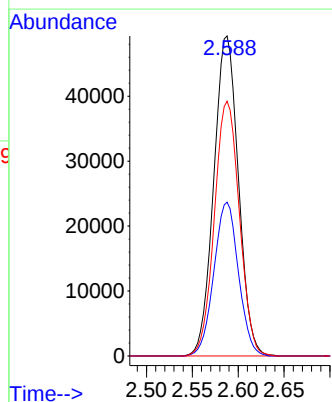
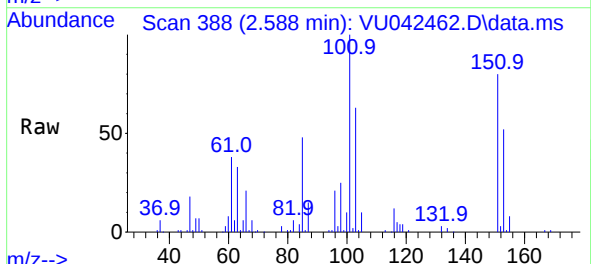
Instrument :
MSVOA_U
ClientSampled :
X3163

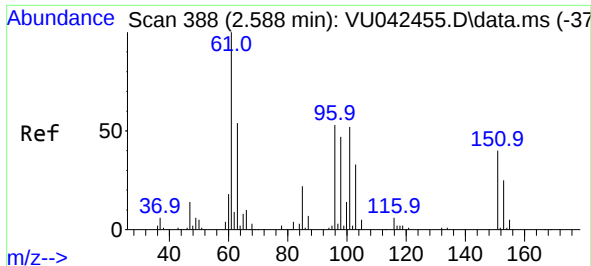
Tgt Ion: 64 Resp: 77950
Ion Ratio Lower Upper
64 100
66 31.5 22.6 42.0



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.28 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion:101 Resp: 92067
Ion Ratio Lower Upper
101 100
85 47.9 36.8 55.2
151 80.8 63.5 95.3

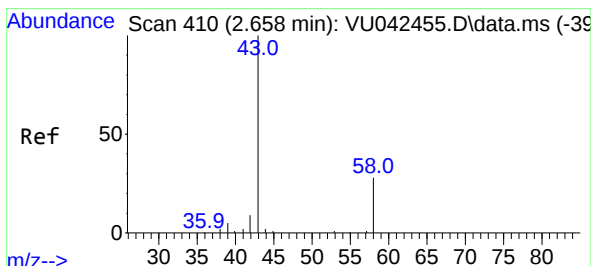
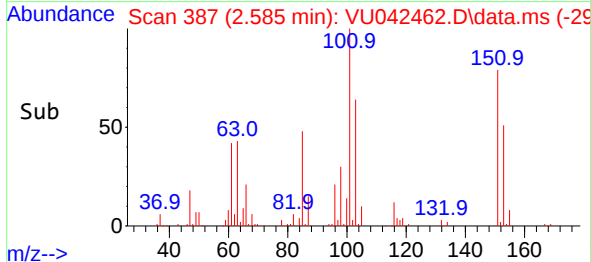
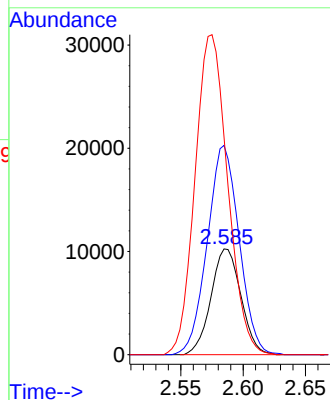
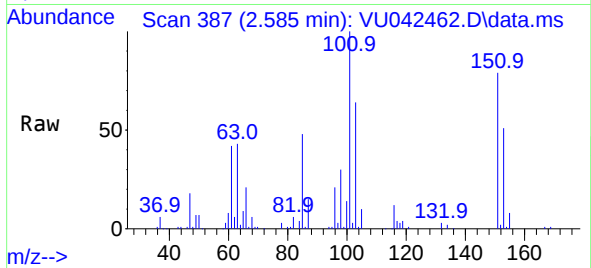




#12
1,1-Dichloroethene
Concen: 2.43 ug/L
RT: 2.585 min Scan# 387
Delta R.T. -0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

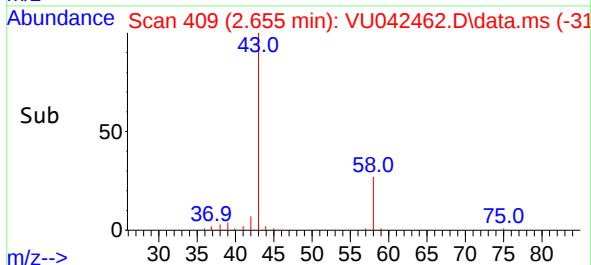
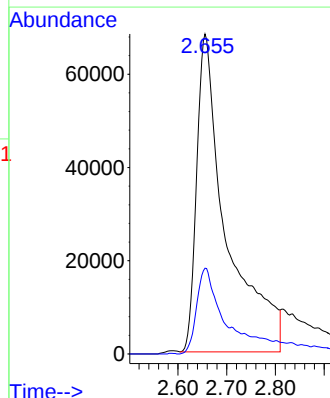
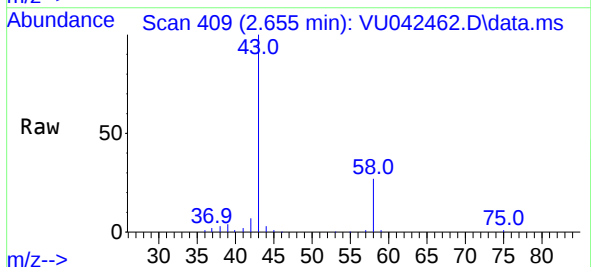
Instrument :
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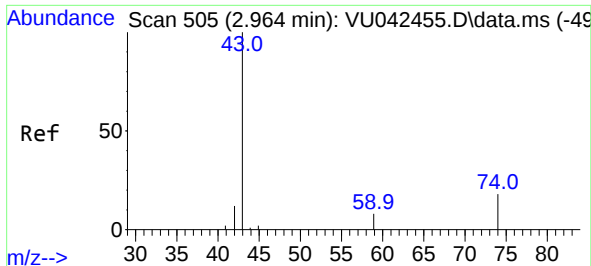
Tgt Ion: 96 Resp: 17139
Ion Ratio Lower Upper
96 100
61 198.0 132.4 245.8
63 205.7 74.3 138.1#



#13
Acetone
Concen: 161.40 ug/L
RT: 2.655 min Scan# 409
Delta R.T. -0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 43 Resp: 289174
Ion Ratio Lower Upper
43 100
58 26.4 0.0 38.2

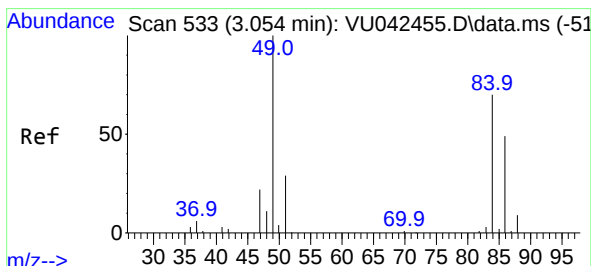
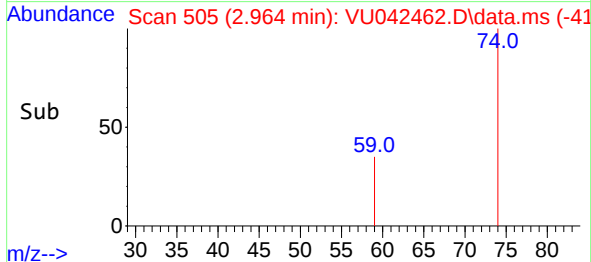
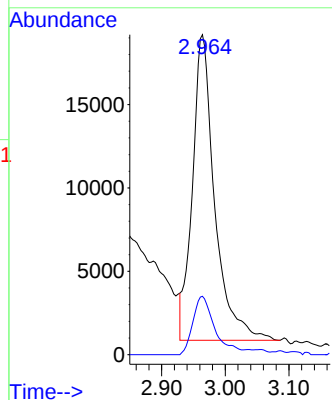
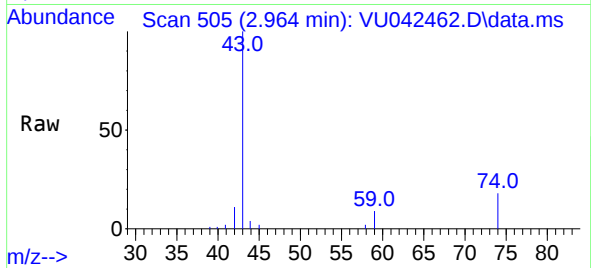




#15
Methyl Acetate
Concen: 10.74 ug/L
RT: 2.964 min Scan# 505
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

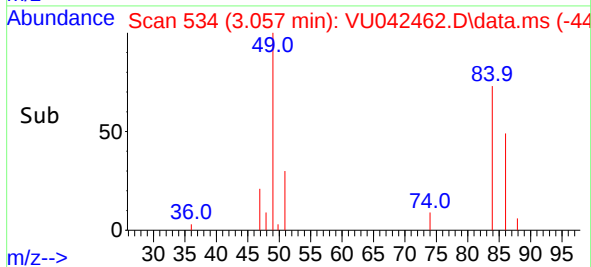
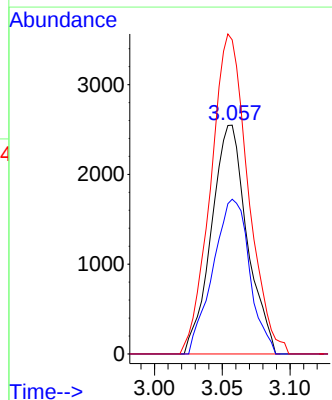
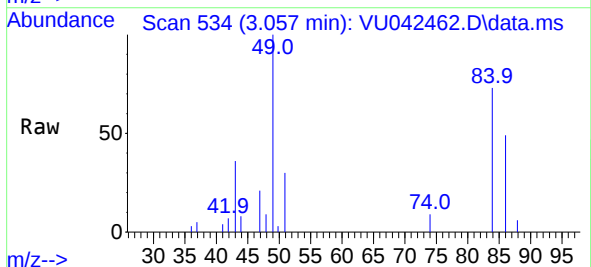
Instrument :
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ClientSampled :
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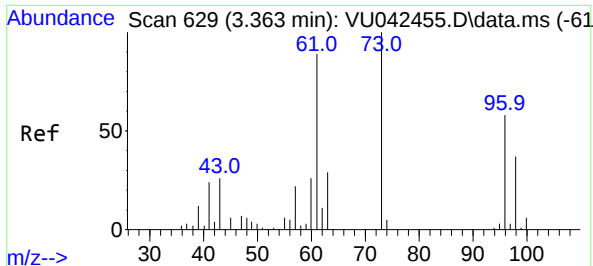
Tgt Ion: 43 Resp: 44610
Ion Ratio Lower Upper
43 100
74 18.9 14.4 21.6



#16
Methylene chloride
Concen: 0.58 ug/L
RT: 3.057 min Scan# 534
Delta R.T. 0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 84 Resp: 4664
Ion Ratio Lower Upper
84 100
86 67.6 48.6 90.3
49 141.9 99.3 184.5



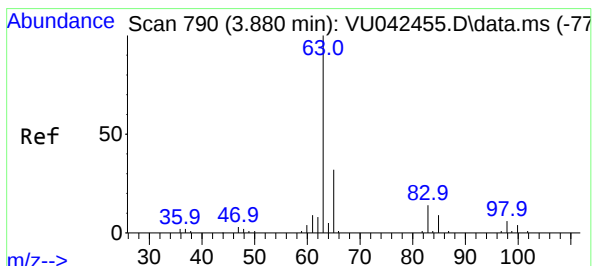
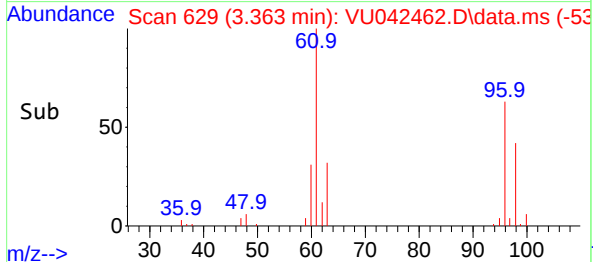
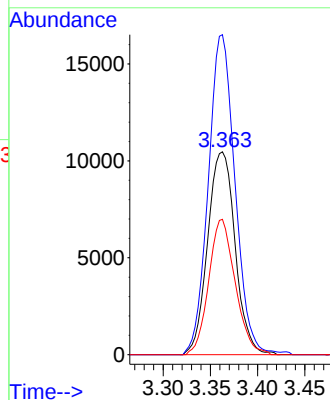
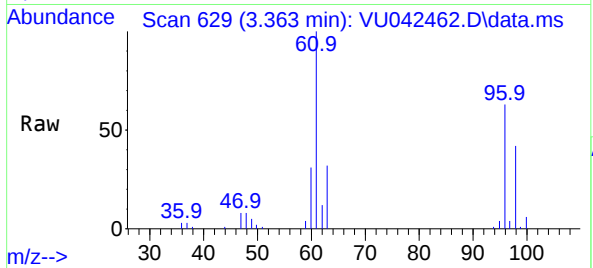


#18
trans-1,2-Dichloroethene
Concen: 2.82 ug/L
RT: 3.363 min Scan# 629
Delta R.T. 0.000 min
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Tgt Ion: 96 Resp: 21204

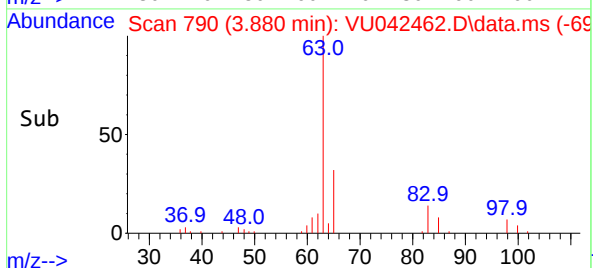
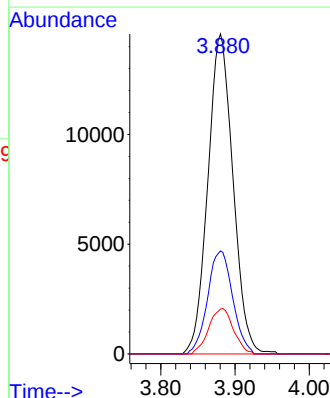
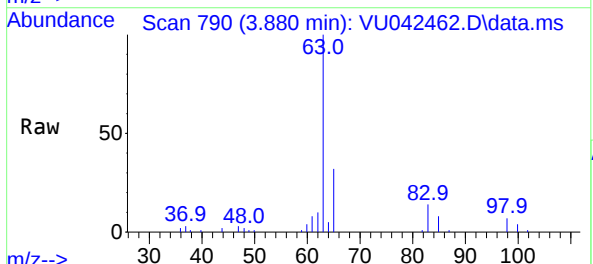
Ion	Ratio	Lower	Upper
96	100		
61	157.7	106.7	198.3
98	66.7	44.8	83.2

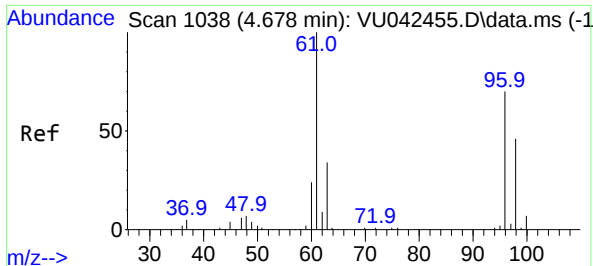


#19
1,1-Dichloroethane
Concen: 2.34 ug/L
RT: 3.880 min Scan# 790
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 63 Resp: 34259

Ion	Ratio	Lower	Upper
63	100		
65	32.2	22.4	41.6
83	14.1	9.7	18.1



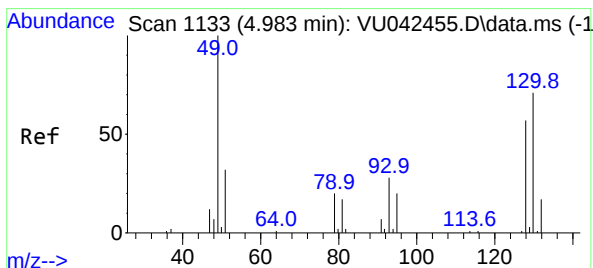
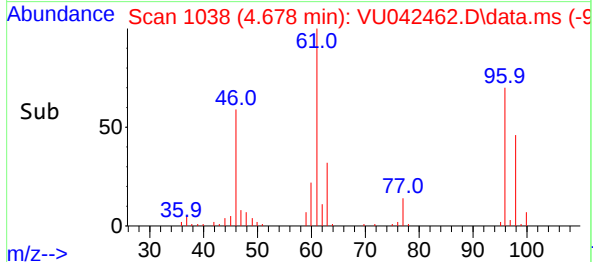
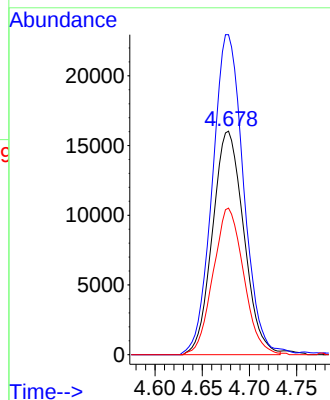
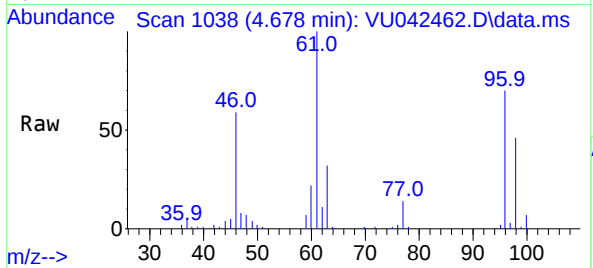


#22
cis-1,2-Dichloroethene
Concen: 4.57 ug/L
RT: 4.678 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Instrument :
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ClientSampleId :
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Tgt Ion: 96 Resp: 36843

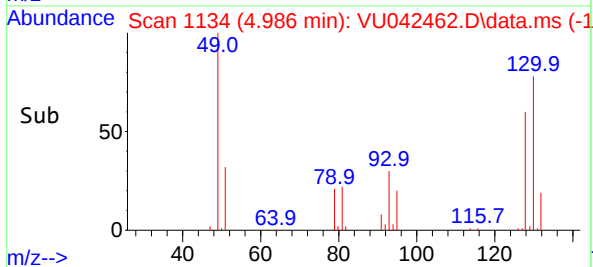
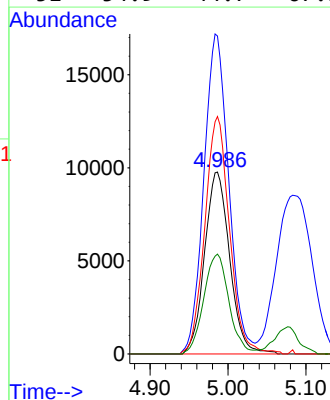
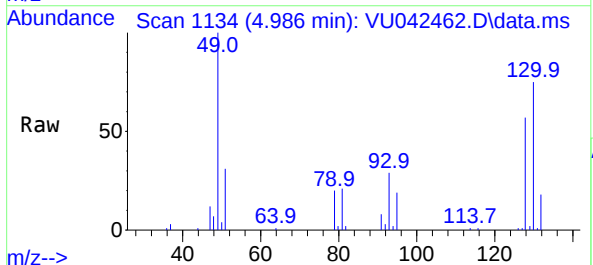
Ion	Ratio	Lower	Upper
96	100		
61	143.2	101.2	187.8
98	65.6	46.5	86.5

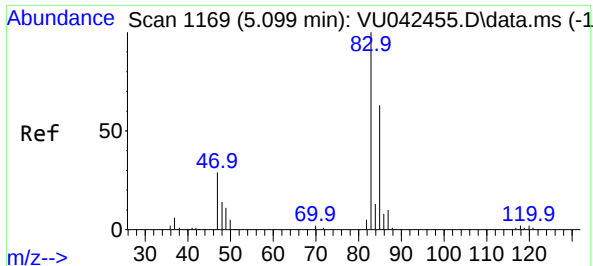


#23
Bromochloromethane
Concen: 5.65 ug/L
RT: 4.986 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 128 Resp: 21895

Ion	Ratio	Lower	Upper
128	100		
49	174.7	121.9	226.3
130	130.5	86.1	159.9
51	54.9	44.7	67.1



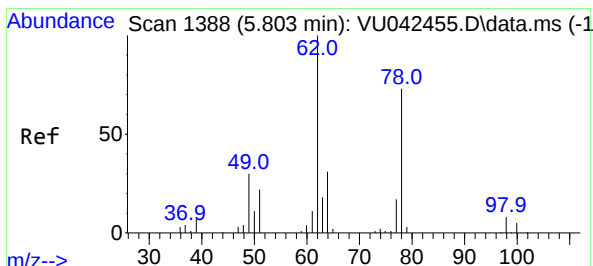
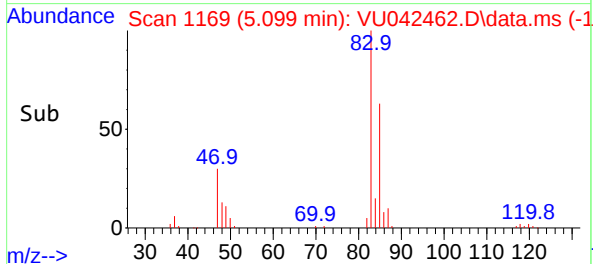
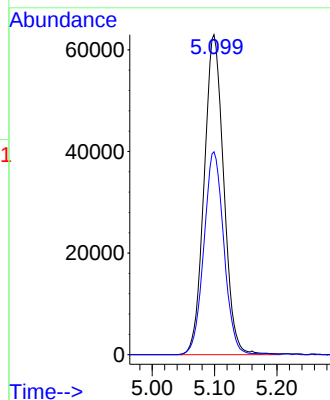
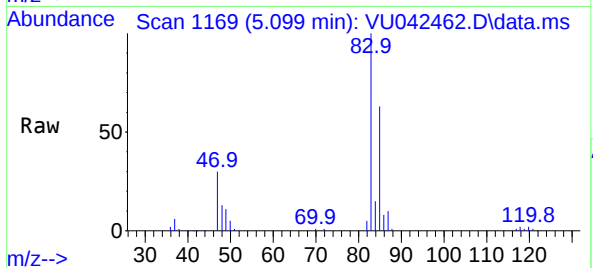


#25

Chloroform
Concen: 9.02 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Instrument :
MSVOA_U
ClientSampled :
X3163

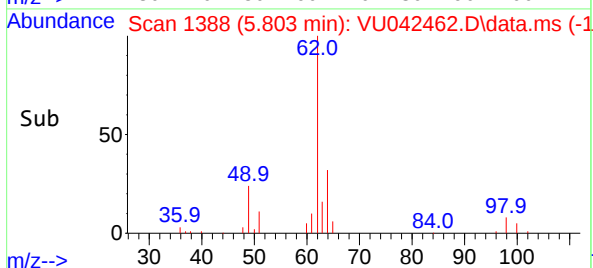
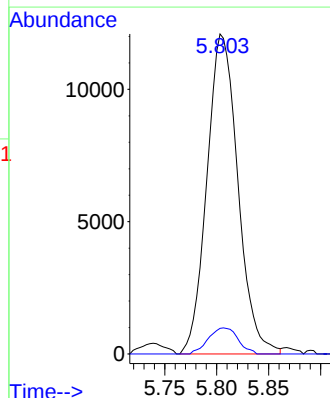
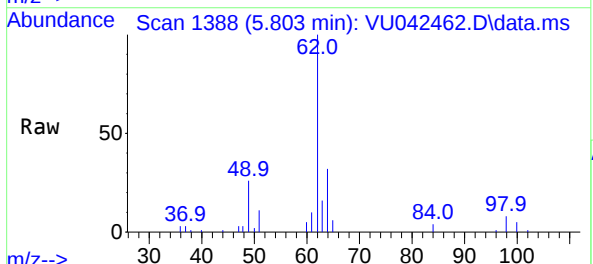
Tgt Ion: 83 Resp: 137773
Ion Ratio Lower Upper
83 100
85 63.4 44.0 81.8

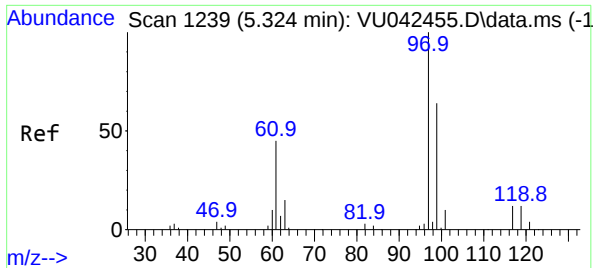


#27

1,2-Dichloroethane
Concen: 2.19 ug/L
RT: 5.803 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 62 Resp: 25085
Ion Ratio Lower Upper
62 100
98 8.0 6.1 9.1

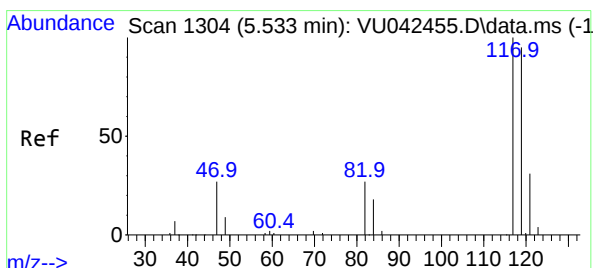
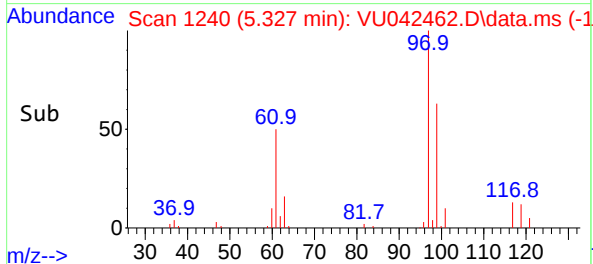
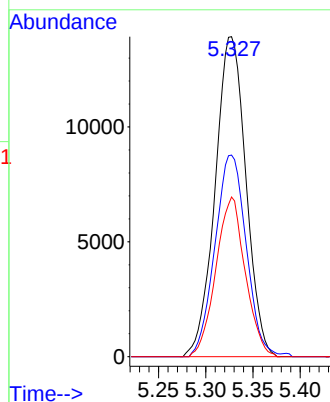
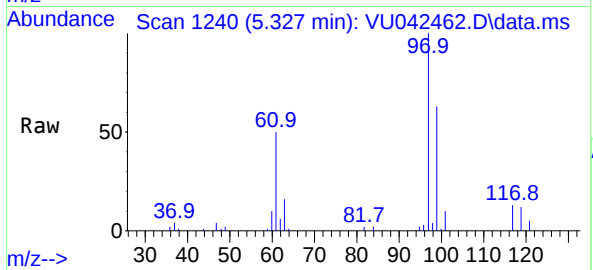




#29
1,1,1-Trichloroethane
Concen: 2.19 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. 0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

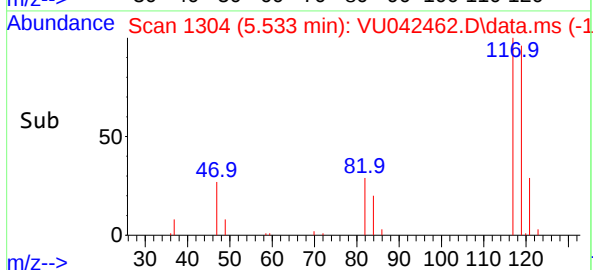
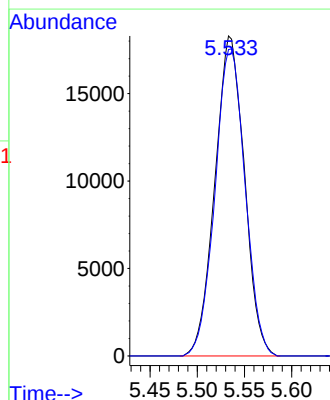
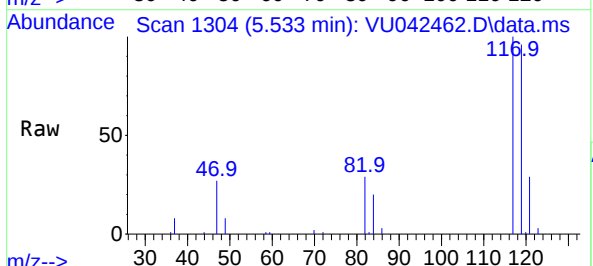
Instrument :
MSVOA_U
ClientSampled :
X3163

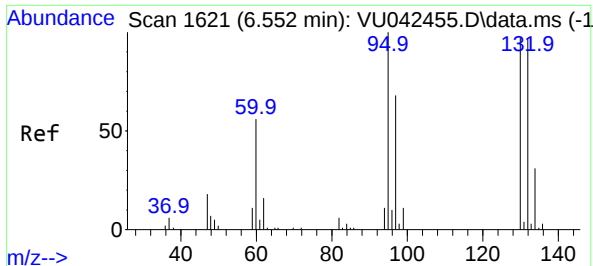
Tgt Ion: 97 Resp: 31559
Ion Ratio Lower Upper
97 100
99 63.9 51.7 77.5
61 47.5 36.8 55.2



#31
Carbon tetrachloride
Concen: 3.25 ug/L
RT: 5.533 min Scan# 1304
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 117 Resp: 39647
Ion Ratio Lower Upper
117 100
119 97.8 76.6 114.8



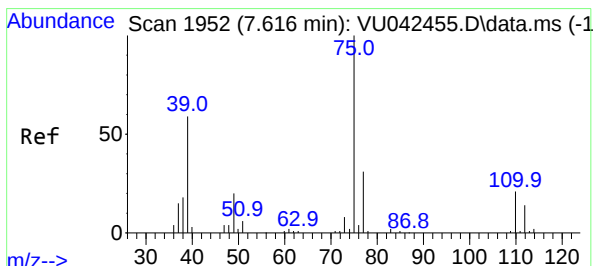
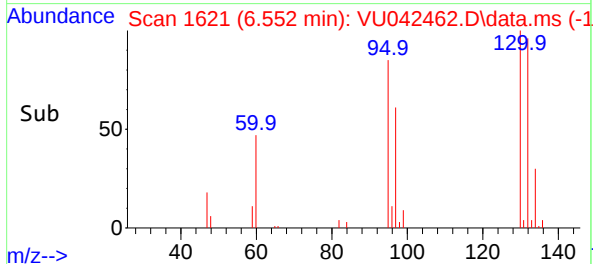
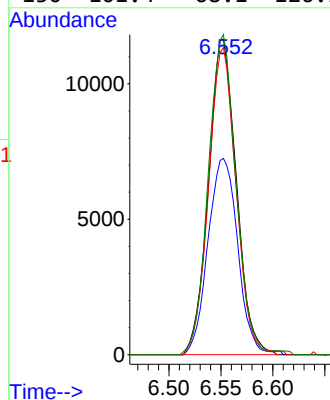
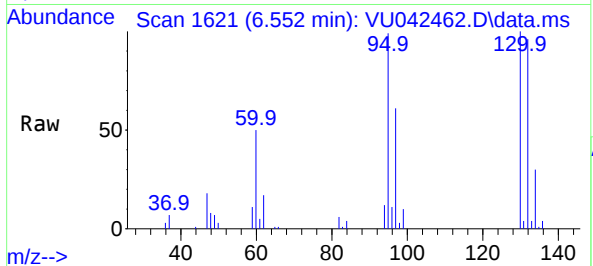


#34
Trichloroethene
Concen: 2.54 ug/L
RT: 6.552 min Scan# 1621
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Instrument :
MSVOA_U
ClientSampleId :
X3163

Tgt Ion: 95 Resp: 21757

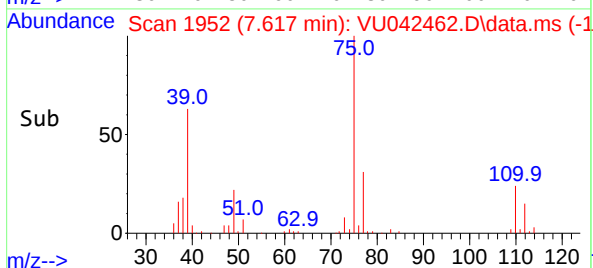
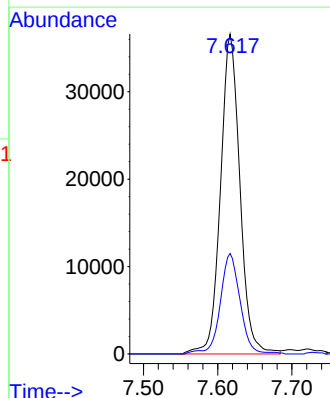
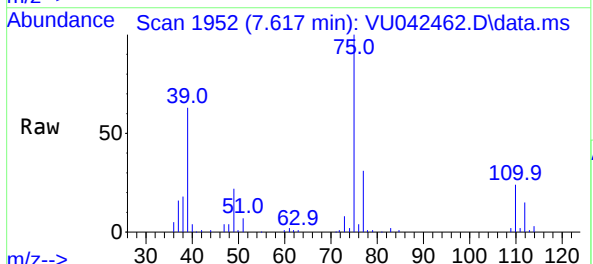
Ion	Ratio	Lower	Upper
95	100		
97	62.2	47.4	88.0
132	97.4	68.3	126.8
130	101.4	68.1	126.5

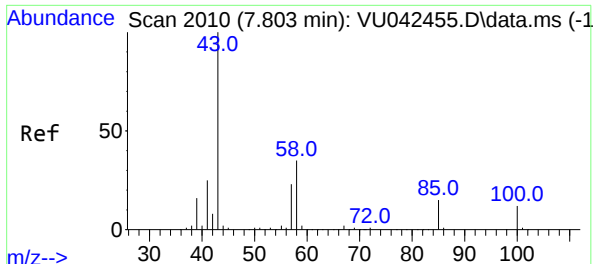


#39
cis-1,3-Dichloropropene
Concen: 5.18 ug/L
RT: 7.617 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 75 Resp: 66646

Ion	Ratio	Lower	Upper
75	100		
77	31.4	21.7	40.3





#40

4-Methyl-2-pentanone

Concen: 66.18 ug/L

RT: 7.803 min Scan# 2010

Delta R.T. 0.000 min

Lab File: VU042462.D

Acq: 01 Mar 2021 14:36

Tgt Ion: 43 Resp: 496668

Ion Ratio Lower Upper

43 100

58 34.9 27.8 41.8

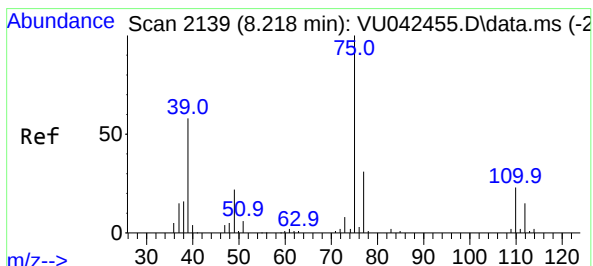
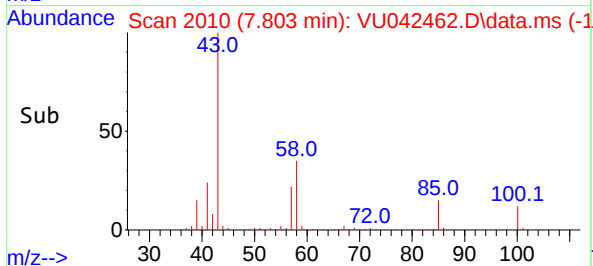
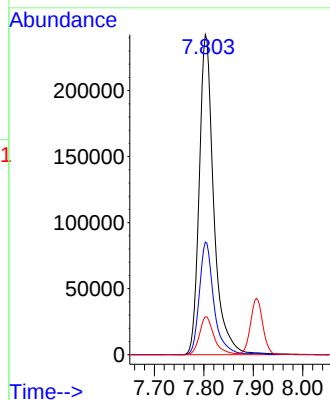
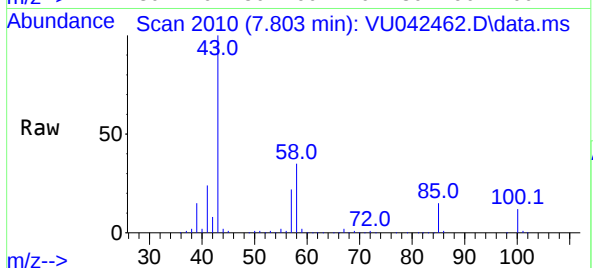
100 11.9 9.8 14.6

Instrument :

MSVOA_U

ClientSampleId :

X3163



#44

trans-1,3-Dichloropropene

Concen: 2.68 ug/L

RT: 8.221 min Scan# 2140

Delta R.T. 0.003 min

Lab File: VU042462.D

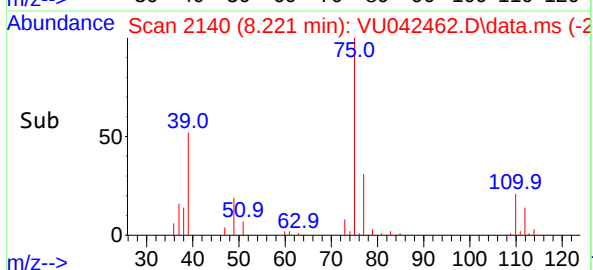
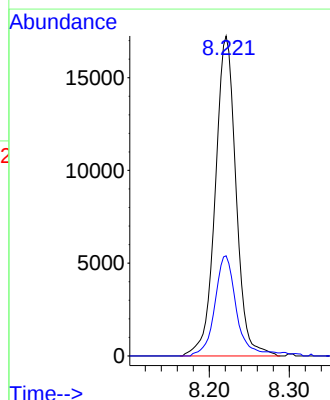
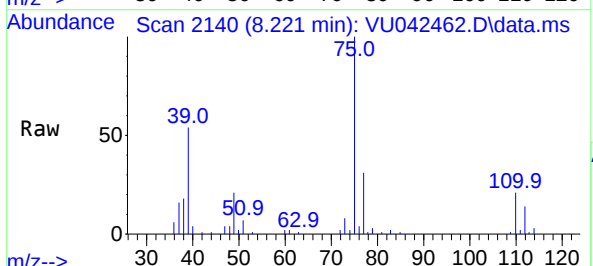
Acq: 01 Mar 2021 14:36

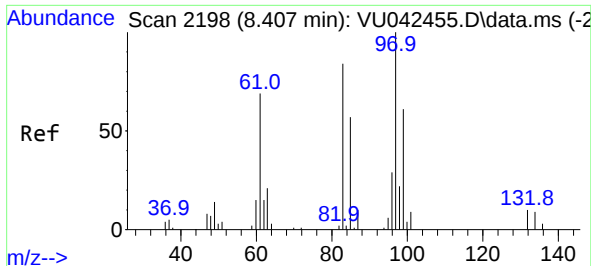
Tgt Ion: 75 Resp: 31006

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6



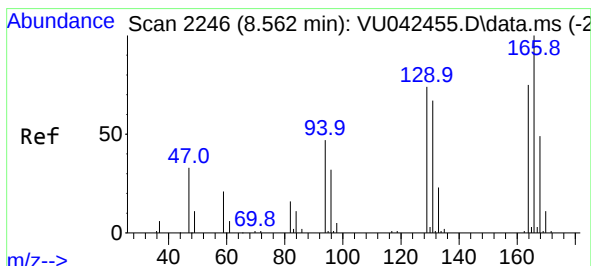
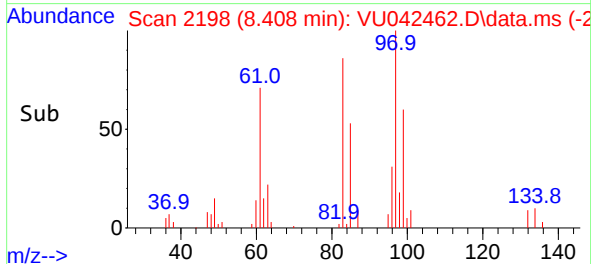
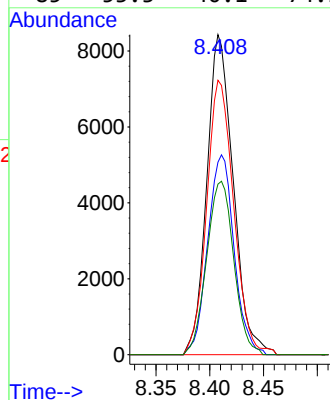
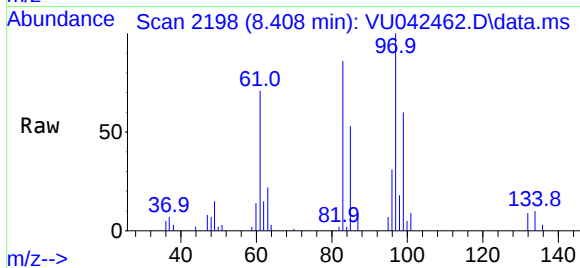


#45
1,1,2-Trichloroethane
Concen: 2.30 ug/L
RT: 8.408 min Scan# 2198
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Instrument :
MSVOA_U
ClientSampled :
X3163

Tgt Ion: 97 Resp: 14425

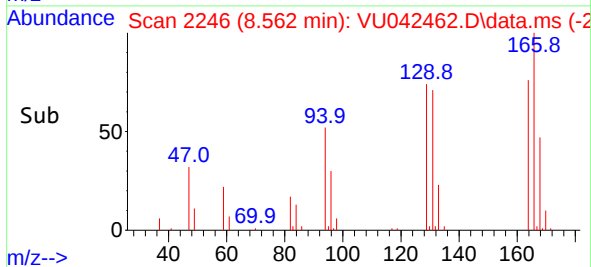
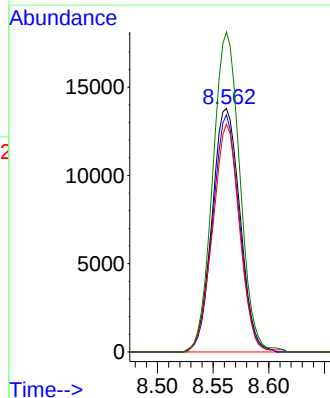
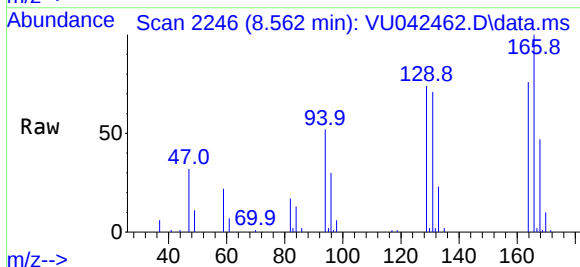
Ion	Ratio	Lower	Upper
97	100		
99	60.1	42.4	78.8
83	85.8	58.8	109.2
85	53.3	40.1	74.5

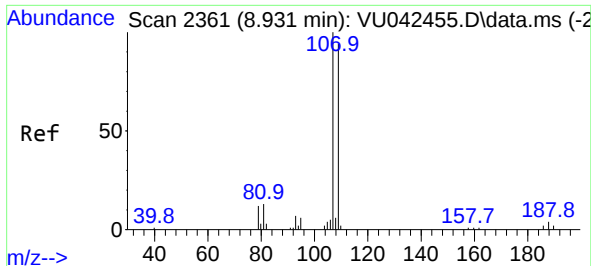


#47
Tetrachloroethene
Concen: 3.43 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion: 164 Resp: 24144

Ion	Ratio	Lower	Upper
164	100		
129	97.4	68.4	127.0
131	93.6	62.3	115.7
166	131.4	92.7	172.3

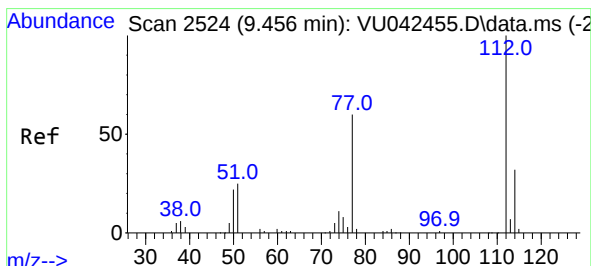
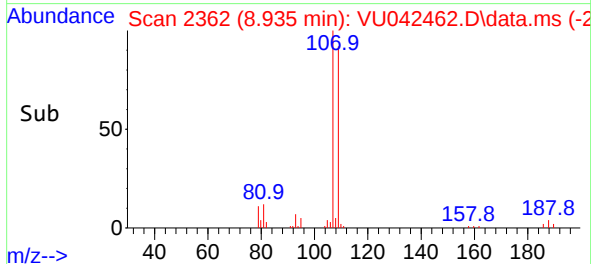
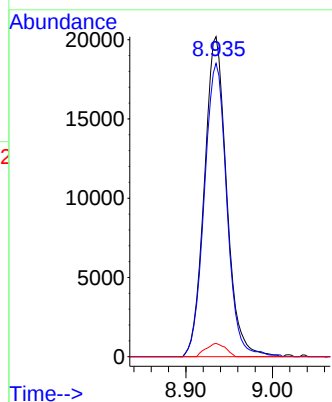
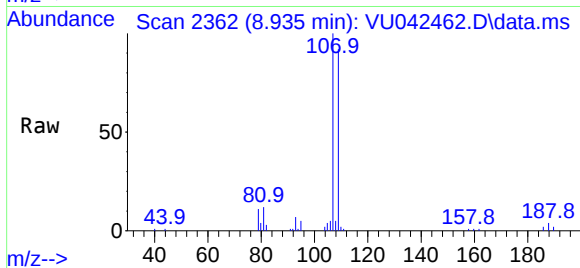




#50
1,2-Dibromoethane
Concen: 5.62 ug/L
RT: 8.935 min Scan# 2362
Delta R.T. 0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

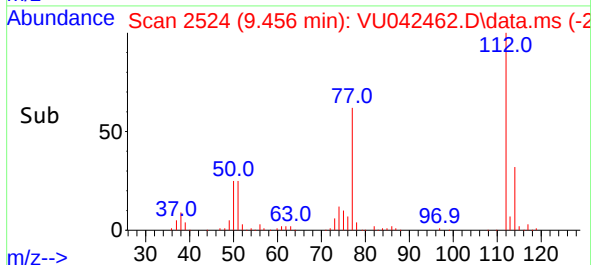
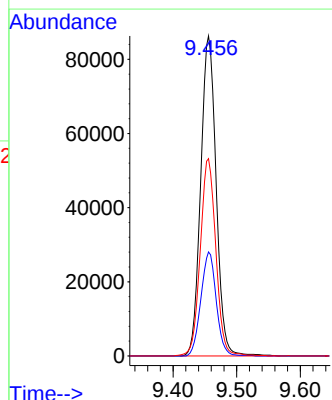
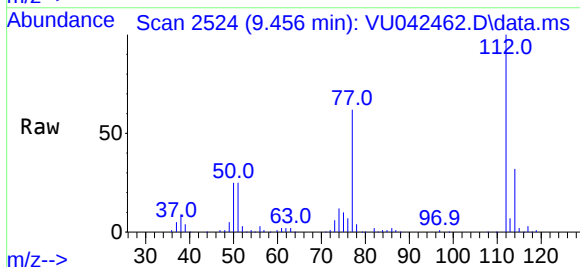
Instrument :
MSVOA_U
ClientSampled :
X3163

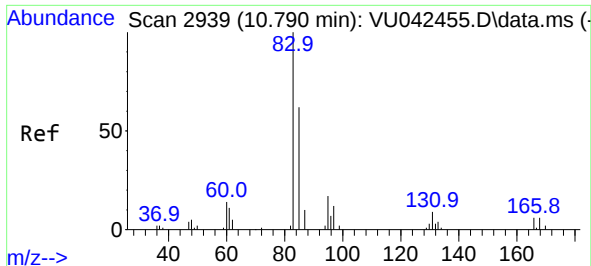
Tgt Ion:107 Resp: 36148
Ion Ratio Lower Upper
107 100
109 91.6 65.5 121.6
188 4.2 3.4 5.0



#51
Chlorobenzene
Concen: 6.64 ug/L
RT: 9.456 min Scan# 2524
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion:112 Resp: 145727
Ion Ratio Lower Upper
112 100
114 32.5 22.5 41.9
77 61.6 48.5 72.7

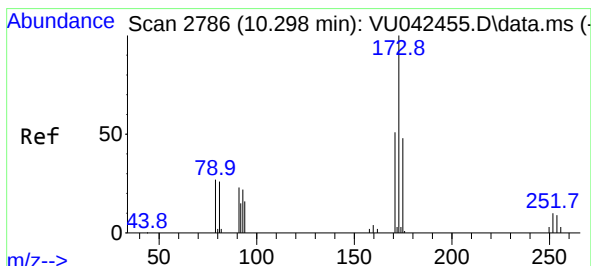
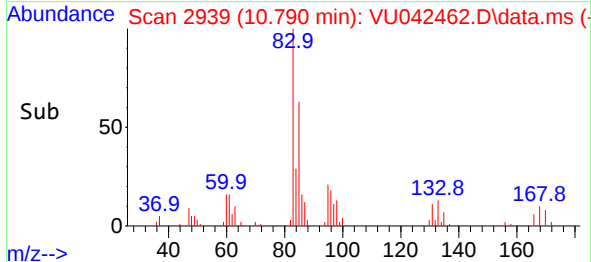
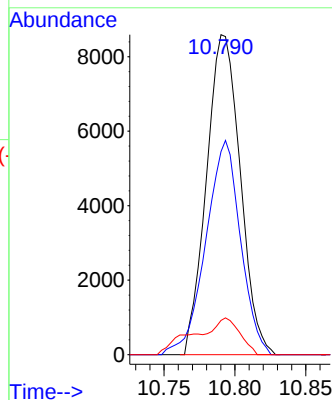
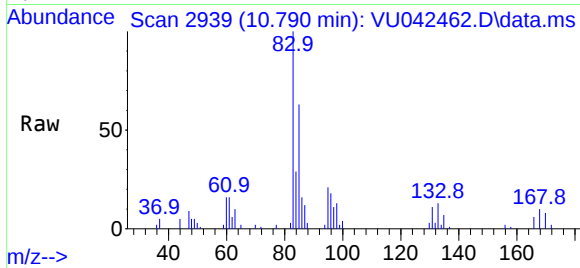




#57
1,1,2,2-Tetrachloroethane
Concen: 1.68 ug/L
RT: 10.790 min Scan# 2939
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

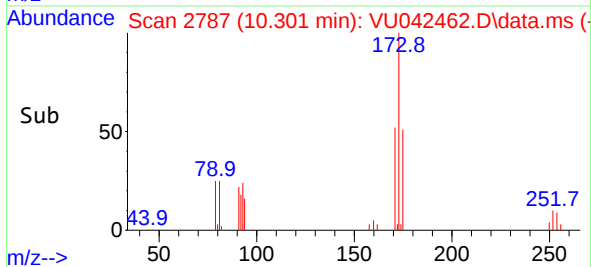
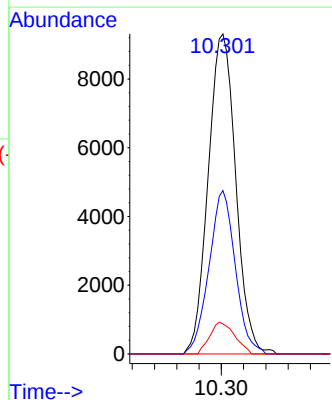
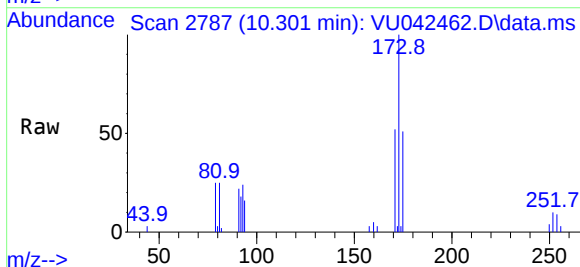
Instrument :
MSVOA_U
ClientSampled :
X3163

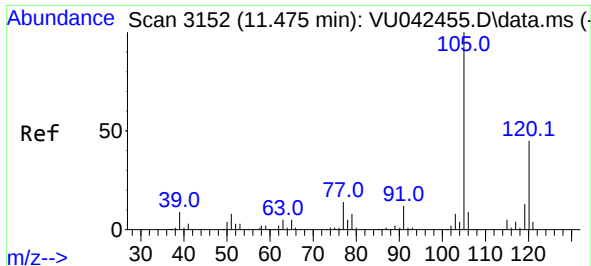
Tgt Ion:	83	Resp:	14253
Ion	Ratio	Lower	Upper
83	100		
85	63.4	43.4	80.6
131	10.7	7.9	11.9



#59
Bromoform
Concen: 3.24 ug/L
RT: 10.301 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion:	173	Resp:	15970
Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.2	57.4
254	9.0	7.1	10.7

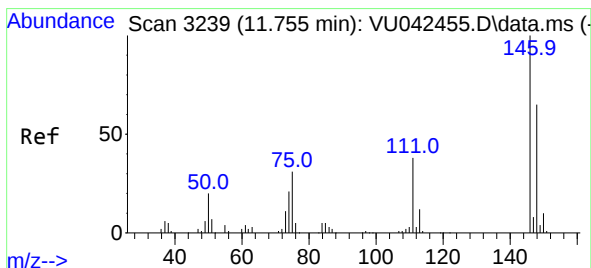
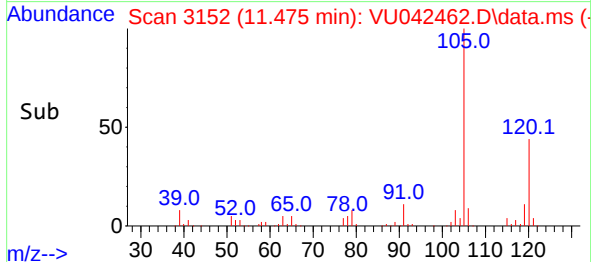
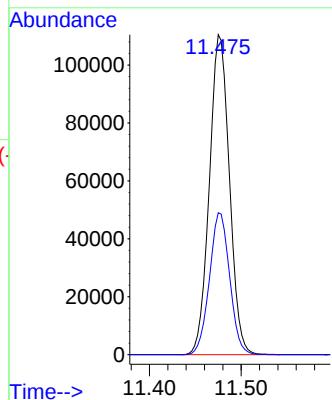
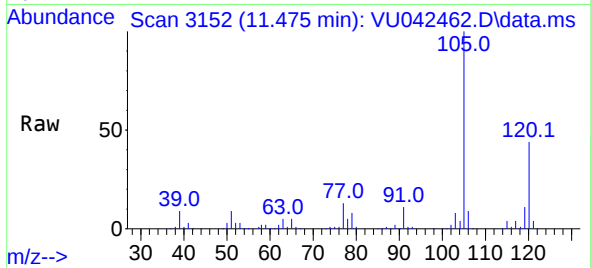




#63
1,2,4-Trimethylbenzene
Concen: 5.35 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

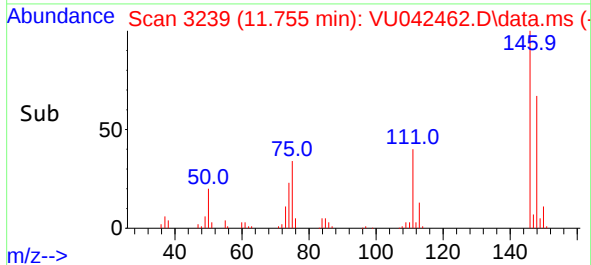
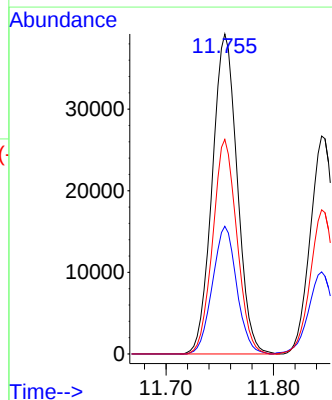
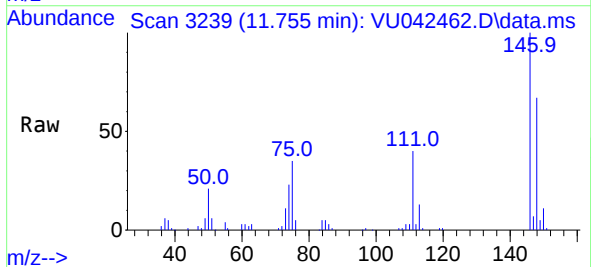
Instrument :
MSVOA_U
ClientSampled :
X3163

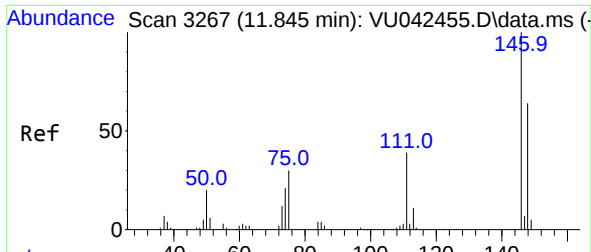
Tgt Ion:105 Resp: 167716
Ion Ratio Lower Upper
105 100
120 44.7 35.5 53.3



#64
1,3-Dichlorobenzene
Concen: 3.51 ug/L
RT: 11.755 min Scan# 3239
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Tgt Ion:146 Resp: 63252
Ion Ratio Lower Upper
146 100
111 39.9 26.6 49.4
148 67.0 45.1 83.9

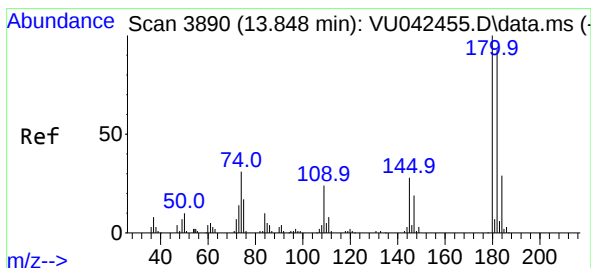
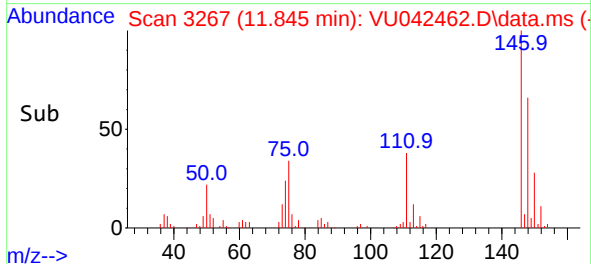
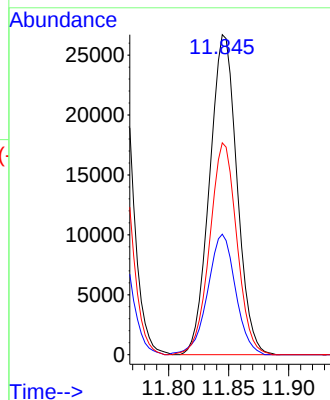
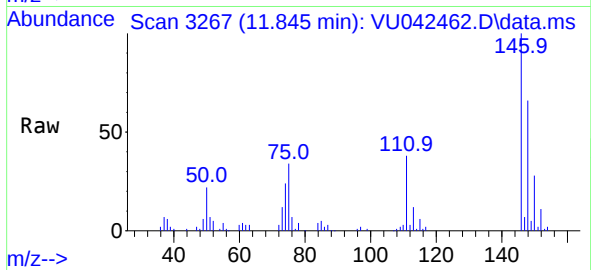




#65
1,4-Dichlorobenzene
Concen: 2.37 ug/L
RT: 11.845 min Scan# 3267
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

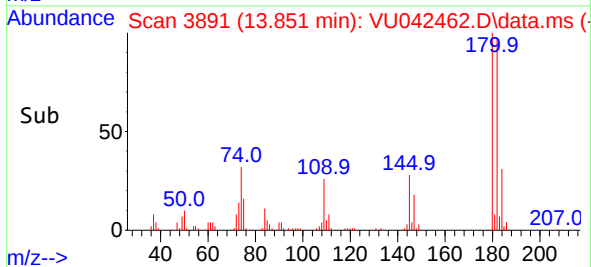
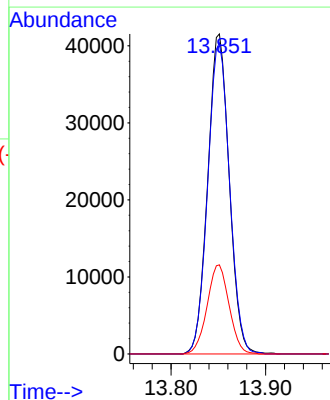
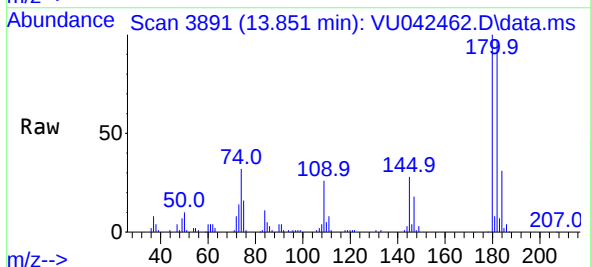
Instrument :
MSVOA_U
ClientSampled :
X3163

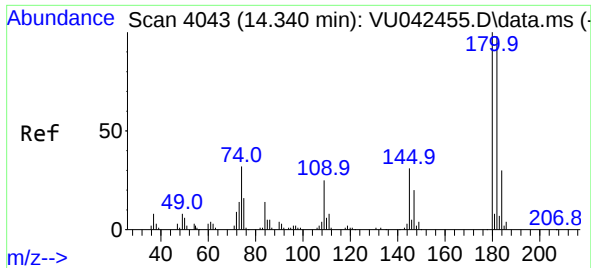
Tgt Ion:	146	Resp:	42393
Ion Ratio	Lower	Upper	
146	100		
111	37.7	27.4	50.8
148	66.2	44.7	83.1



#70
1,2,4-trichlorobenzene
Concen: 5.66 ug/L
RT: 13.851 min Scan# 3891
Delta R.T. 0.003 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

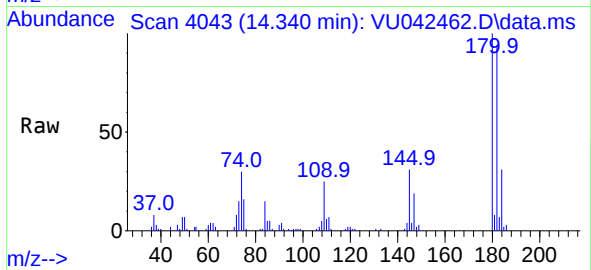
Tgt Ion:	180	Resp:	65542
Ion Ratio	Lower	Upper	
180	100		
182	98.6	75.4	113.0
145	28.5	22.9	34.3





#72
1,2,3-Trichlorobenzene
Concen: 3.41 ug/L
RT: 14.340 min Scan# 4043
Delta R.T. 0.000 min
Lab File: VU042462.D
Acq: 01 Mar 2021 14:36

Instrument :
MSVOA_U
ClientSampleId :
X3163



Tgt Ion:180 Resp: 35645
Ion Ratio Lower Upper
180 100
182 95.2 77.0 115.4
145 30.9 24.9 37.3

