

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052021\
 Data File : VU043829.D
 Acq On : 19 May 2021 16:11
 Operator : SY/MD
 Sample : M2464-13
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB3Z8

Quant Time: May 20 03:56:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu May 20 03:54:53 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	223482	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.426	117	224257	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	120542	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	72589	4.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.20%
7) Chloroethane-d5	1.915	69	48365	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.571	65	32756	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.80%
20) 2-Butanone-d5	4.642	46	145941	46.58	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.16%
24) Chloroform-d	5.073	84	146774	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.60%
26) 1,2-Dichloroethane-d4	5.713	65	69178	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.735	84	285753	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.40%
36) 1,2-Dichloropropane-d6	6.700	67	91086	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.906	98	272189	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
43) trans-1,3-Dichloroprop...	8.189	79	33438	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.645	63	148471	48.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.84%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	72749	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
66) 1,2-Dichlorobenzene-d4	12.201	152	99100	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	68598	4.21	ug/L	99
5) Vinyl chloride	1.607	62	78727	4.15	ug/L	100
8) Chloroethane	1.938	64	133663	12.53	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	176652	11.78	ug/L	98
12) 1,1-Dichloroethene	2.584	96	36378	2.47	ug/L #	79
13) Acetone	2.652	43	253673	127.53	ug/L	99
15) Methyl Acetate	2.964	43	60056	10.15	ug/L	96
16) Methylene chloride	3.054	84	8987	0.41	ug/L	93
18) trans-1,2-Dichloroethene	3.359	96	46054	2.97	ug/L	98
19) 1,1-Dichloroethane	3.877	63	62620	2.24	ug/L	98
22) cis-1,2-Dichloroethene	4.677	96	72193	4.43	ug/L	99
23) Bromochloromethane	4.983	128	42286	5.51	ug/L	95
25) Chloroform	5.099	83	245912	8.87	ug/L	99
27) 1,2-Dichloroethane	5.803	62	35925	2.10	ug/L	99
29) 1,1,1-Trichloroethane	5.324	97	50851	2.17	ug/L	97
31) Carbon tetrachloride	5.533	117	64149	3.28	ug/L	99
34) Trichloroethene	6.549	95	39116	2.35	ug/L	92
39) cis-1,3-Dichloropropene	7.616	75	111930	4.96	ug/L	99
40) 4-Methyl-2-pentanone	7.803	43	578444	53.46	ug/L	97

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

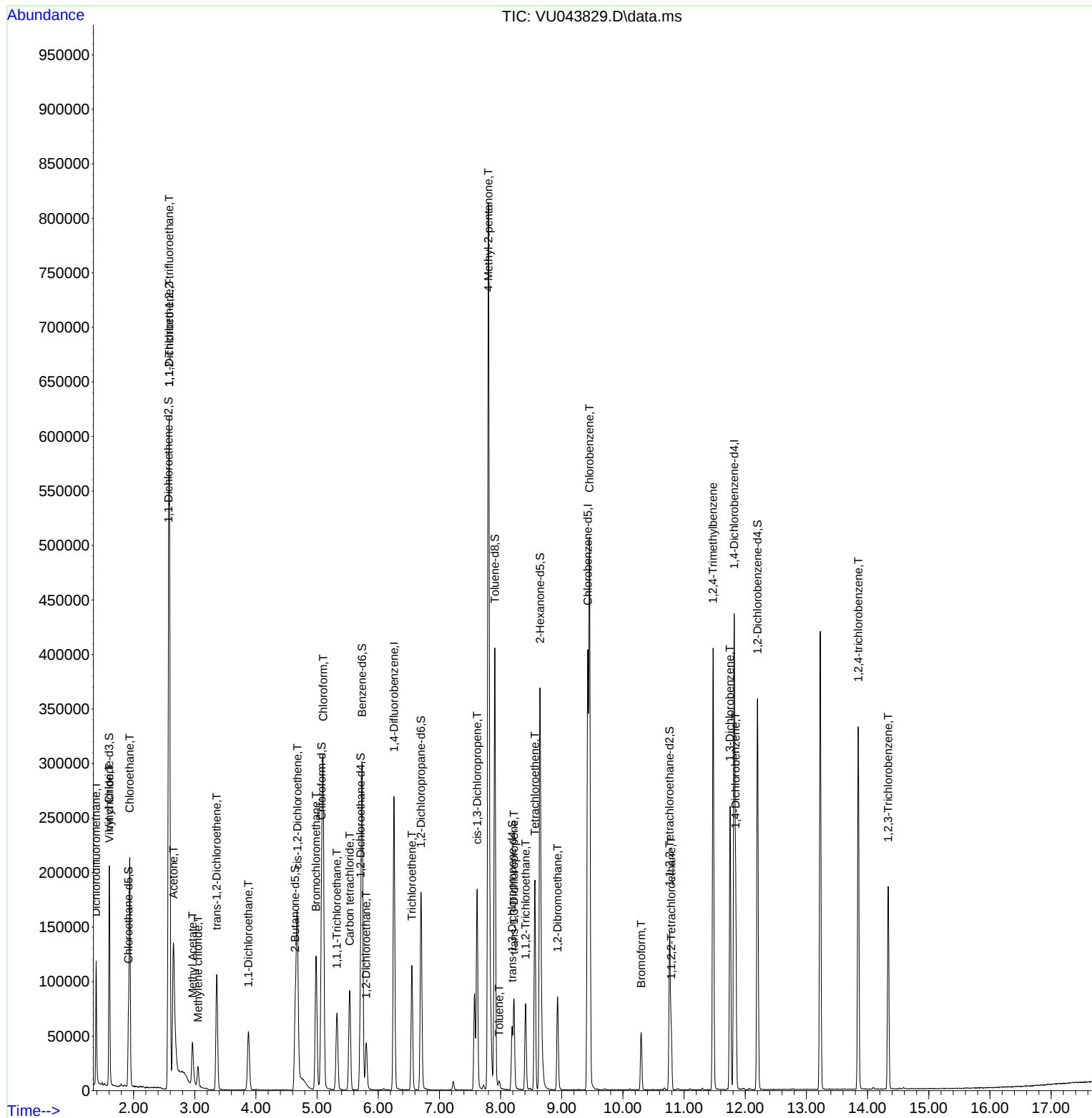
42) Toluene	7.976	91	4744	0.07	ug/L	98
44) trans-1,3-Dichloropropene	8.217	75	48029	2.47	ug/L	98
45) 1,1,2-Trichloroethane	8.407	97	26509	2.17	ug/L	97
47) Tetrachloroethene	8.562	164	45386	3.37	ug/L	98
50) 1,2-Dibromoethane	8.931	107	59296	5.17	ug/L	98
51) Chlorobenzene	9.452	112	273782	6.43	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.790	83	25288	1.63	ug/L	96
59) Bromoform	10.298	173	25233	3.11	ug/L	99
63) 1,2,4-Trimethylbenzene	11.475	105	222578	4.08	ug/L	100
64) 1,3-Dichlorobenzene	11.751	146	111111	3.26	ug/L	99
65) 1,4-Dichlorobenzene	11.844	146	74256	2.17	ug/L	99
70) 1,2,4-trichlorobenzene	13.847	180	109422	4.88	ug/L	98
72) 1,2,3-Trichlorobenzene	14.336	180	62971	2.96	ug/L	97

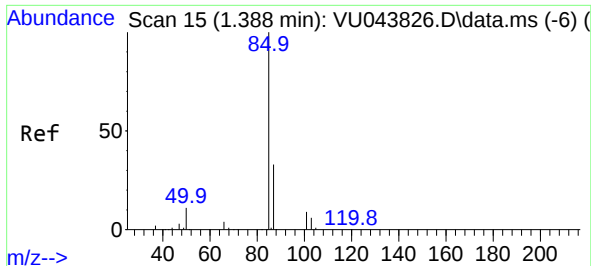
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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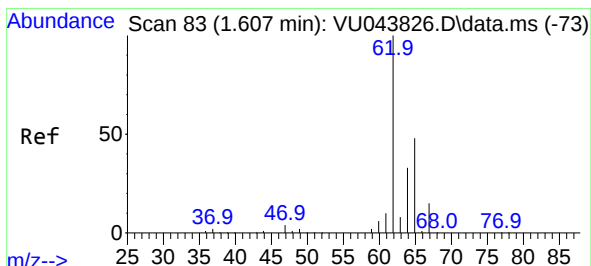
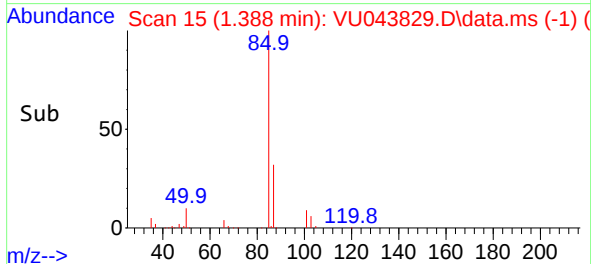
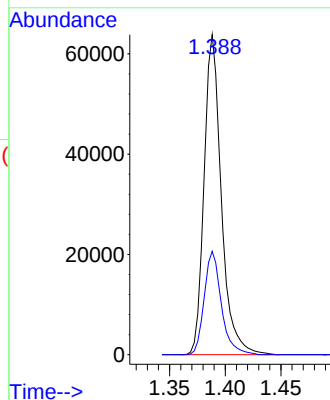
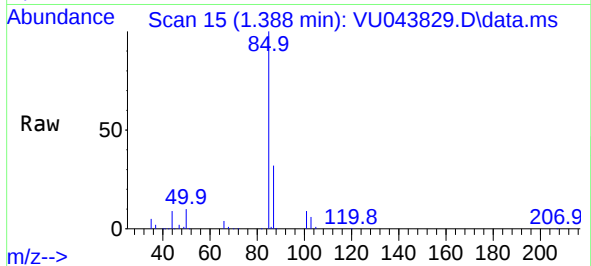




#2
Dichlorodifluoromethane
Concen: 4.21 ug/L
RT: 1.388 min Scan# 15
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

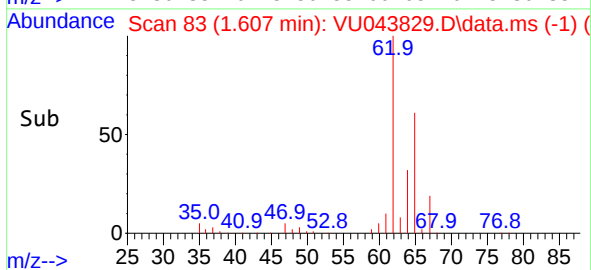
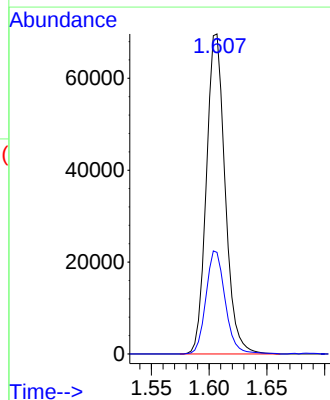
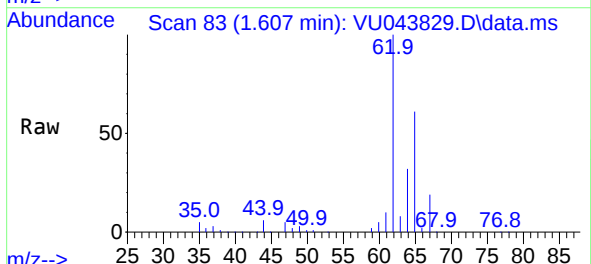
Instrument :
MSVOA_U
ClientSampleId :
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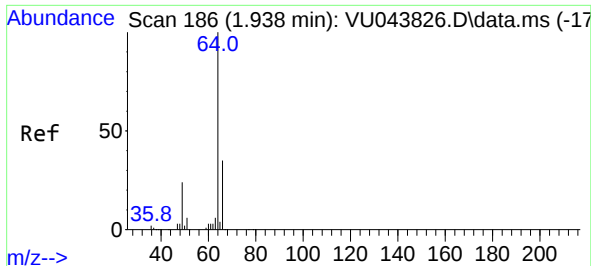
Tgt Ion: 85 Resp: 68598
Ion Ratio Lower Upper
85 100
87 32.2 25.5 38.3



#5
Vinyl chloride
Concen: 4.15 ug/L
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 62 Resp: 78727
Ion Ratio Lower Upper
62 100
64 31.7 22.1 41.1

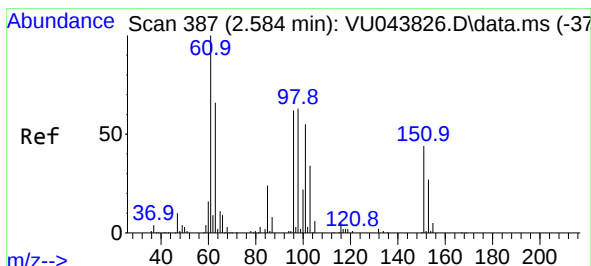
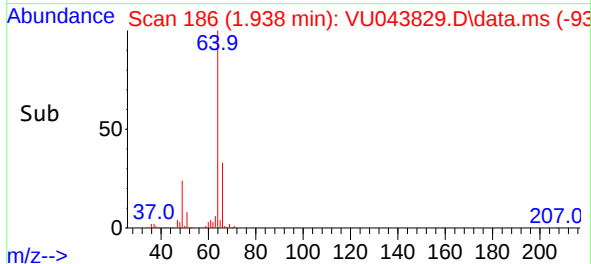
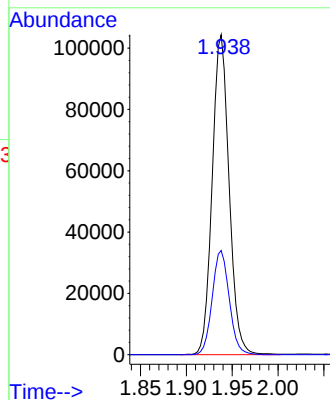
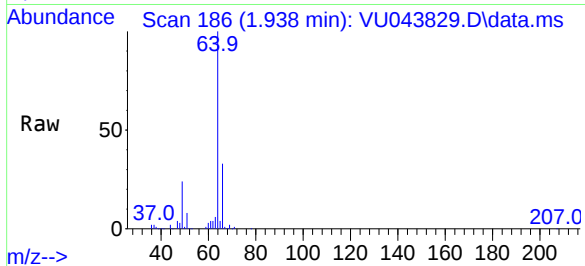




#8
Chloroethane
Concen: 12.53 ug/L
RT: 1.938 min Scan# 186
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

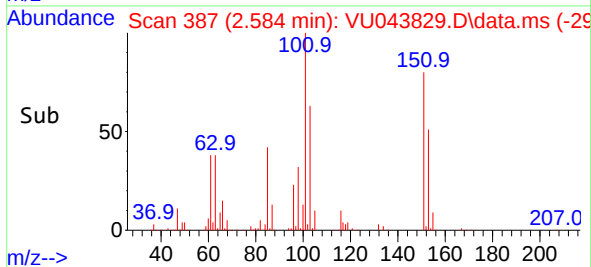
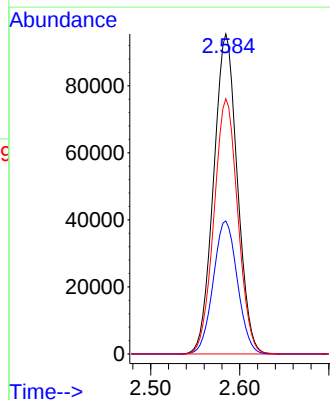
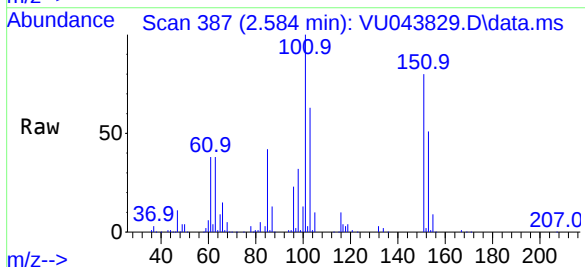
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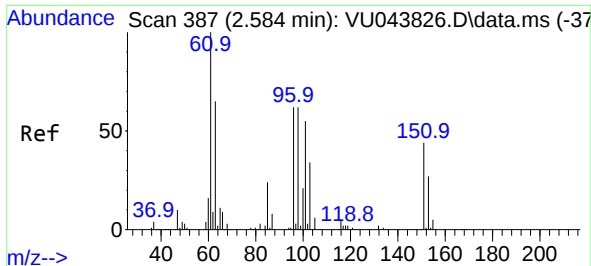
Tgt Ion: 64 Resp: 133663
Ion Ratio Lower Upper
64 100
66 32.5 23.4 43.6



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.78 ug/L
RT: 2.584 min Scan# 387
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion:101 Resp: 176652
Ion Ratio Lower Upper
101 100
85 42.3 34.3 51.5
151 80.2 62.7 94.1

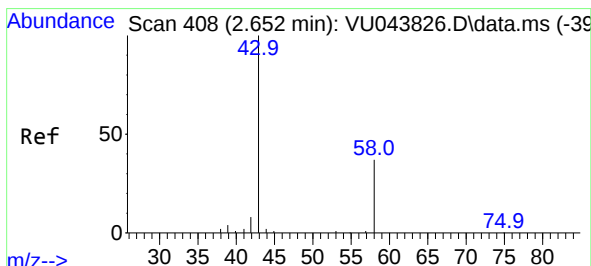
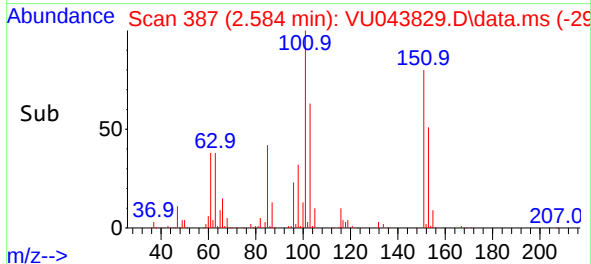
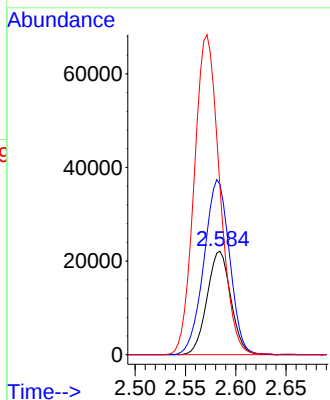
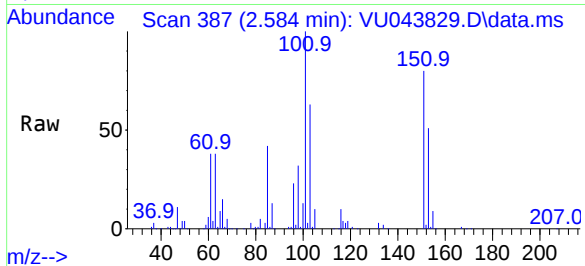




#12
1,1-Dichloroethene
Concen: 2.47 ug/L
RT: 2.584 min Scan# 387
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

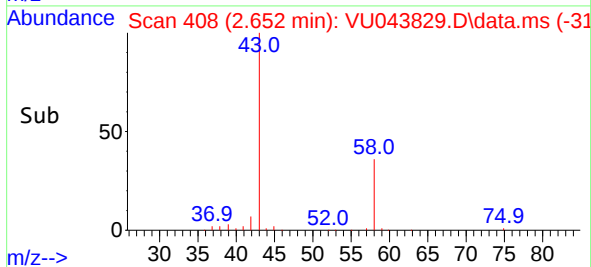
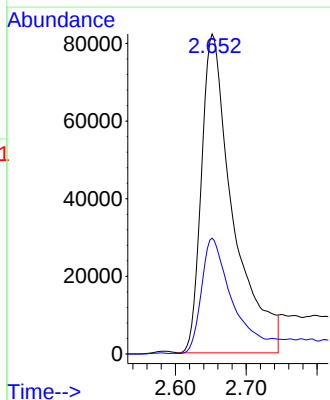
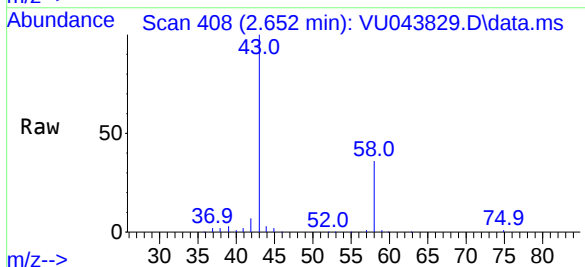
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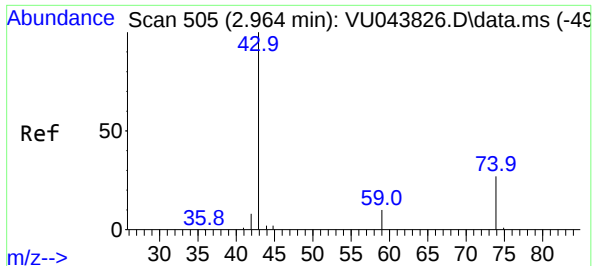
Tgt Ion: 96 Resp: 36378
Ion Ratio Lower Upper
96 100
61 164.4 117.5 218.1
63 162.0 77.3 143.7#



#13
Acetone
Concen: 127.53 ug/L
RT: 2.652 min Scan# 408
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 43 Resp: 253673
Ion Ratio Lower Upper
43 100
58 35.1 0.0 71.6

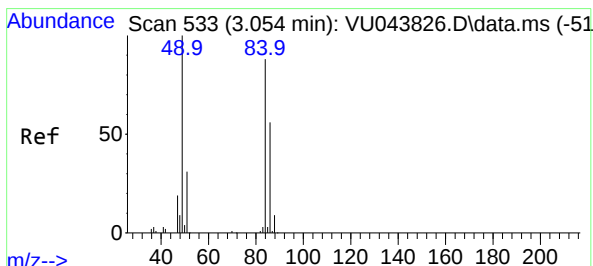
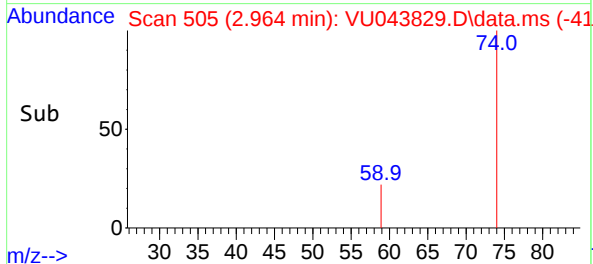
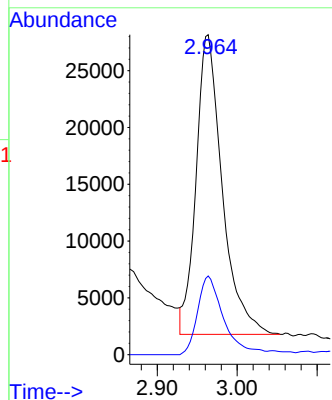
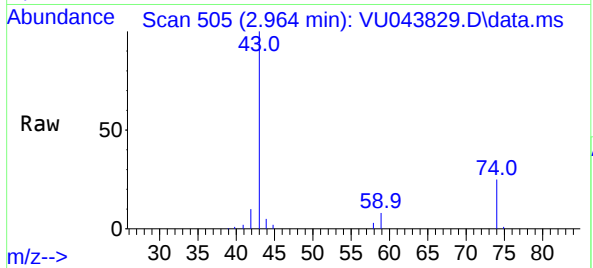




#15
Methyl Acetate
Concen: 10.15 ug/L
RT: 2.964 min Scan# 505
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

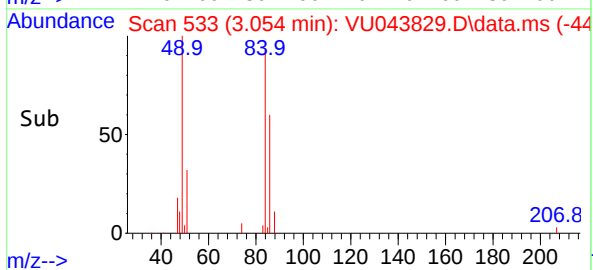
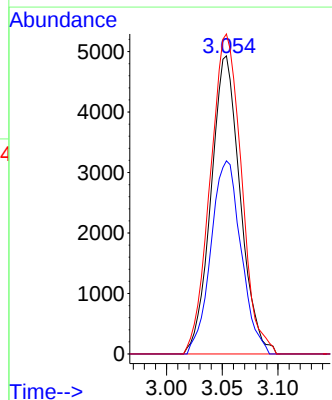
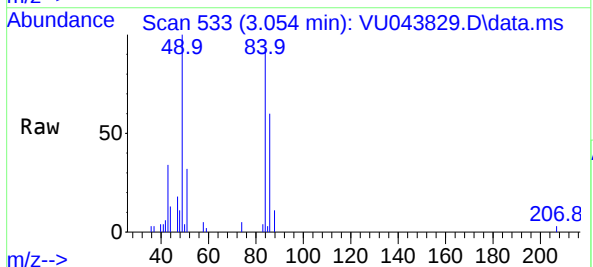
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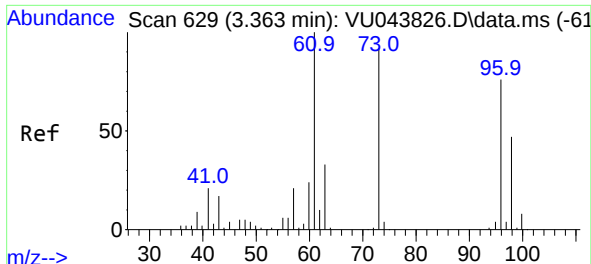
Tgt Ion: 43 Resp: 60056
Ion Ratio Lower Upper
43 100
74 26.0 19.3 28.9



#16
Methylene chloride
Concen: 0.41 ug/L
RT: 3.054 min Scan# 533
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 84 Resp: 8987
Ion Ratio Lower Upper
84 100
86 64.8 44.7 82.9
49 107.3 83.1 154.3

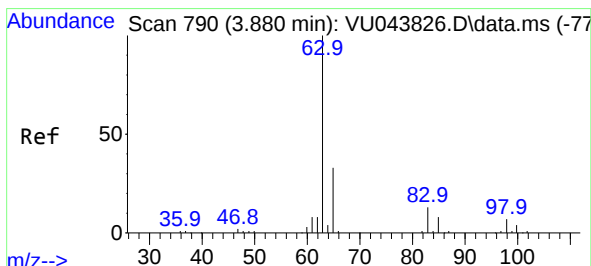
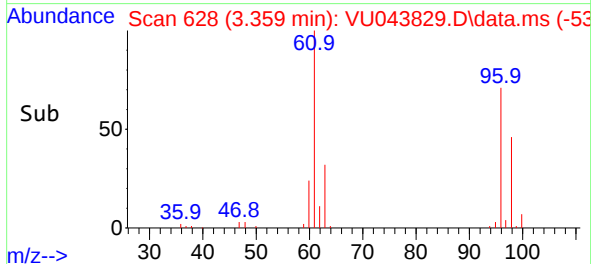
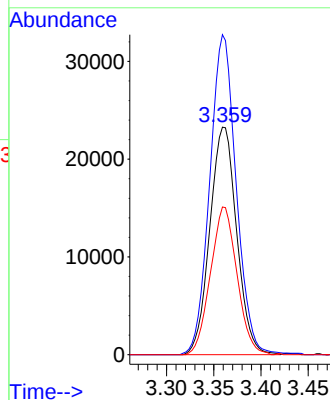
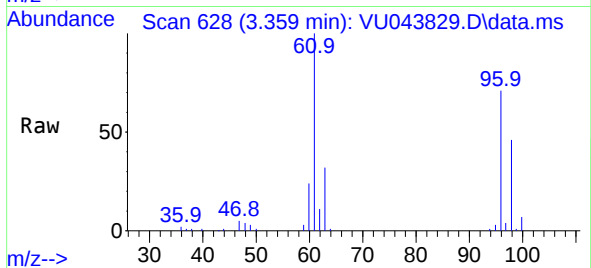




#18
trans-1,2-Dichloroethene
Concen: 2.97 ug/L
RT: 3.359 min Scan# 628
Delta R.T. -0.003 min
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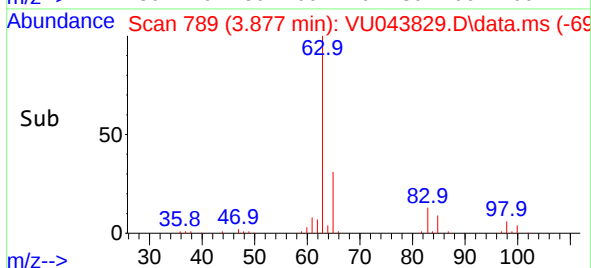
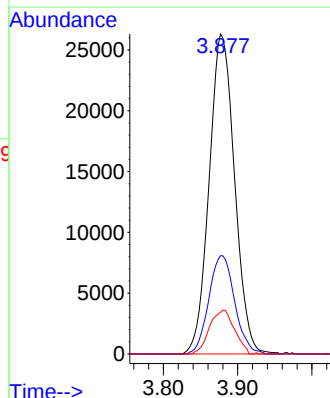
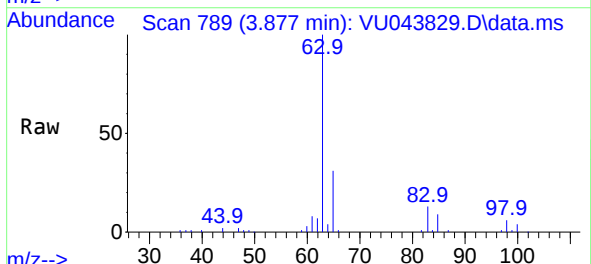
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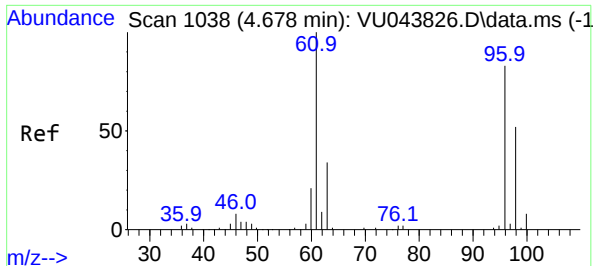
Tgt Ion: 96 Resp: 46054
Ion Ratio Lower Upper
96 100
61 140.7 99.6 185.0
98 64.9 43.8 81.4



#19
1,1-Dichloroethane
Concen: 2.24 ug/L
RT: 3.877 min Scan# 789
Delta R.T. -0.003 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 63 Resp: 62620
Ion Ratio Lower Upper
63 100
65 30.7 22.3 41.3
83 13.1 9.0 16.8



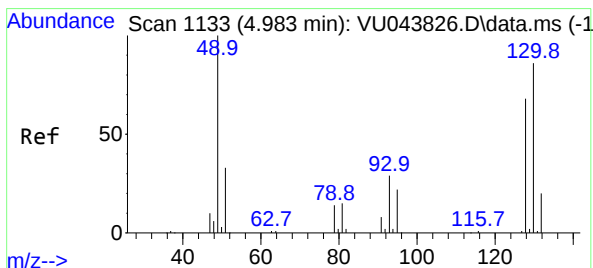
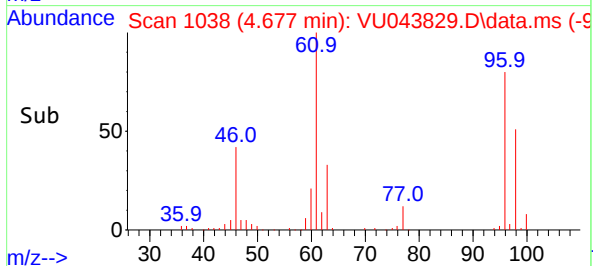
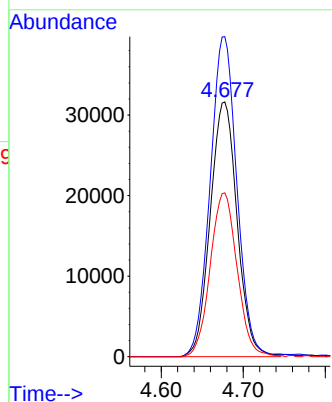
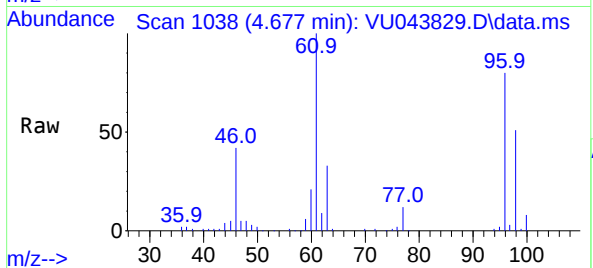


#22
cis-1,2-Dichloroethene
Concen: 4.43 ug/L
RT: 4.677 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

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Tgt Ion: 96 Resp: 72193

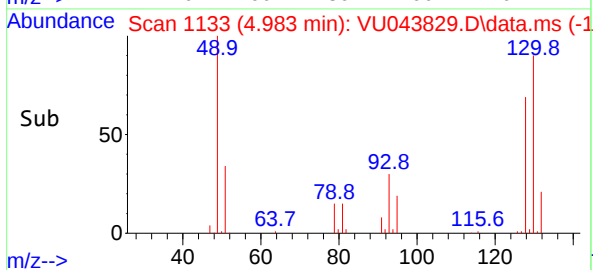
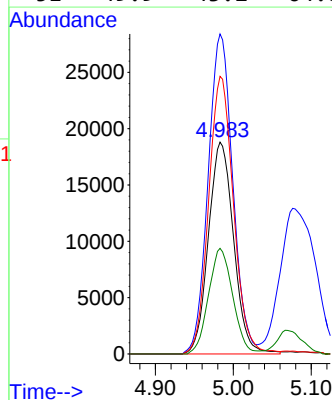
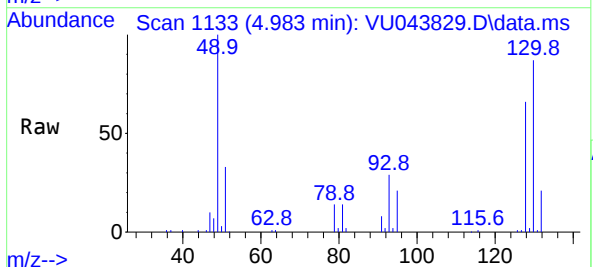
Ion	Ratio	Lower	Upper
96	100		
61	125.6	89.0	165.4
98	64.3	44.9	83.3

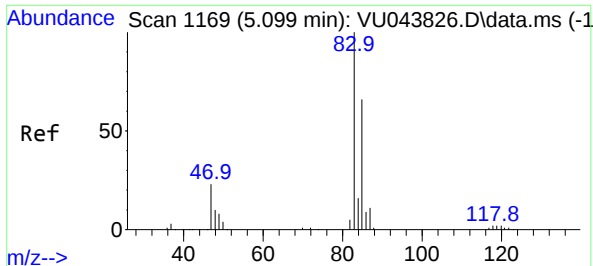


#23
Bromochloromethane
Concen: 5.51 ug/L
RT: 4.983 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 128 Resp: 42286

Ion	Ratio	Lower	Upper
128	100		
49	151.0	114.7	212.9
130	131.0	91.7	170.3
51	49.9	43.2	64.8



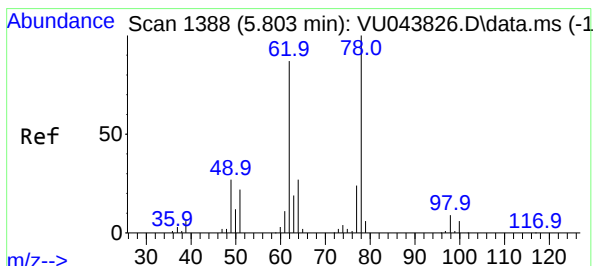
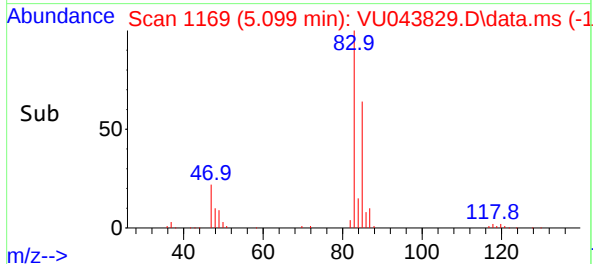
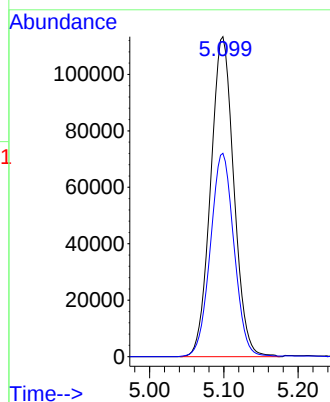
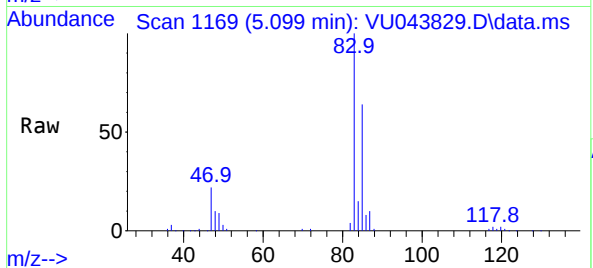


#25

Chloroform
Concen: 8.87 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Instrument :
MSVOA_U
ClientSampleId :
GB3Z8

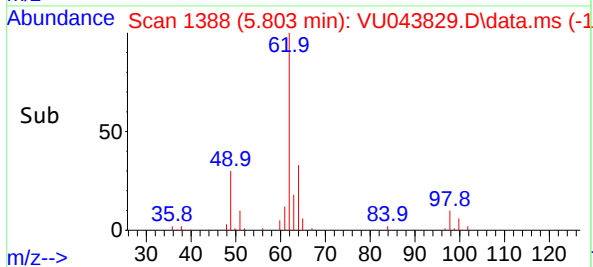
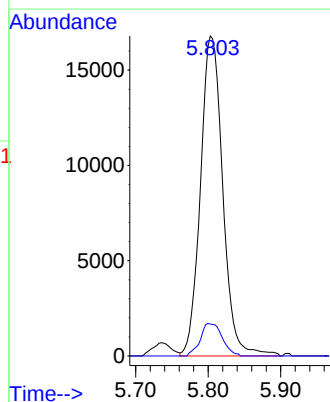
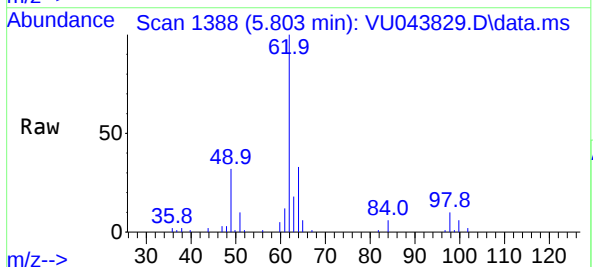
Tgt Ion: 83 Resp: 245912
Ion Ratio Lower Upper
83 100
85 63.6 45.0 83.6

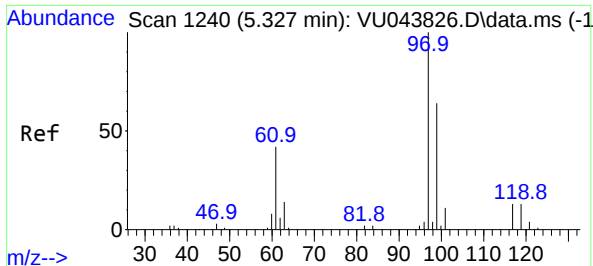


#27

1,2-Dichloroethane
Concen: 2.10 ug/L
RT: 5.803 min Scan# 1388
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 62 Resp: 35925
Ion Ratio Lower Upper
62 100
98 10.0 7.7 11.5

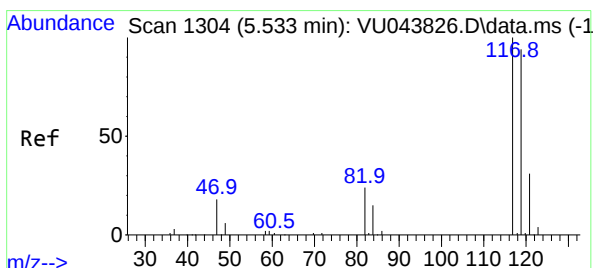
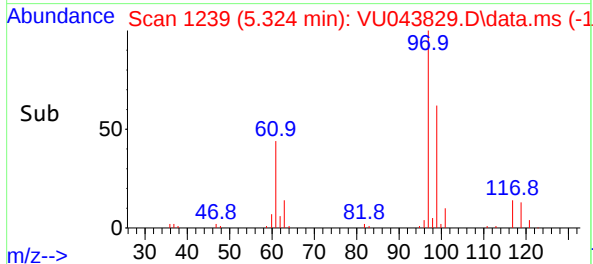
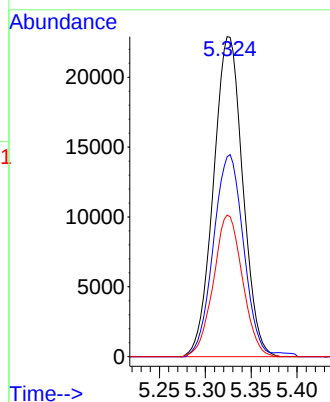
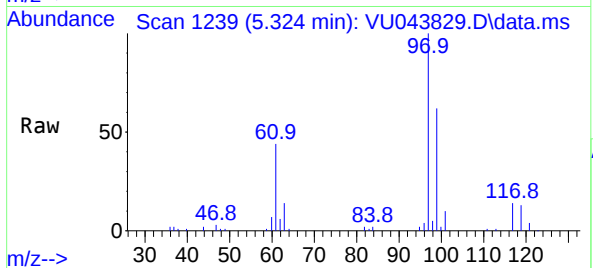




#29
1,1,1-Trichloroethane
Concen: 2.17 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. -0.003 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

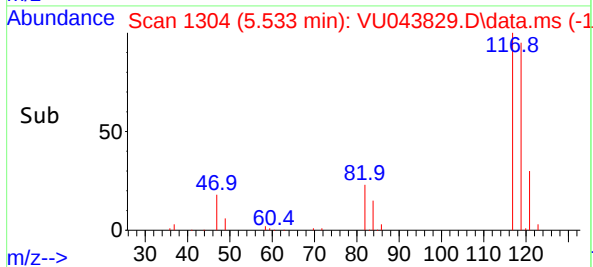
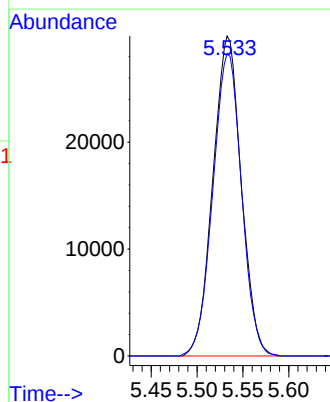
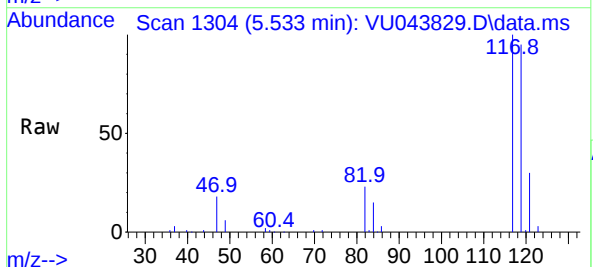
Instrument :
MSVOA_U
ClientSampled :
GB3Z8

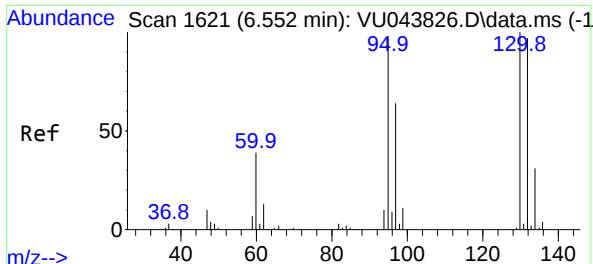
Tgt Ion:	97	Resp:	50851
Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.1	76.7
61	44.0	37.0	55.4



#31
Carbon tetrachloride
Concen: 3.28 ug/L
RT: 5.533 min Scan# 1304
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion:	117	Resp:	64149
Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.4	116.0



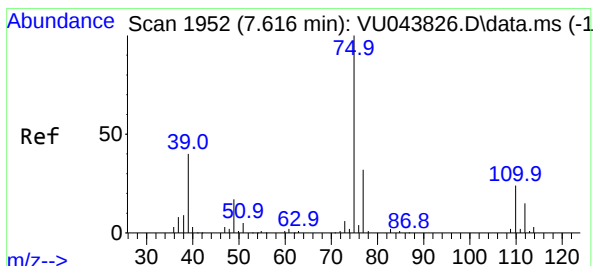
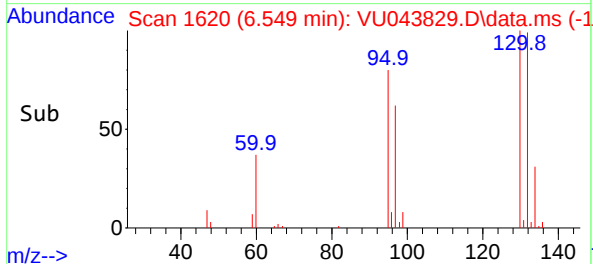
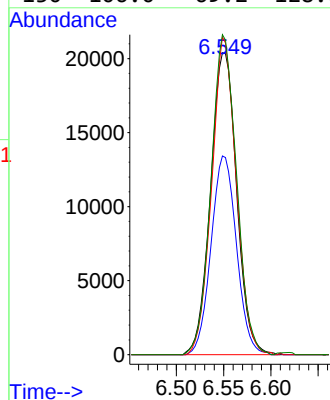
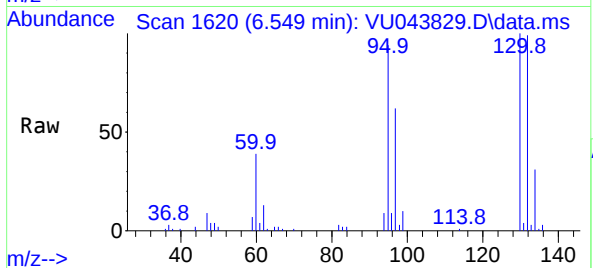


#34
Trichloroethene
Concen: 2.35 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. -0.003 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Instrument :
MSVOA_U
ClientSampleId :
GB3Z8

Tgt Ion: 95 Resp: 39116

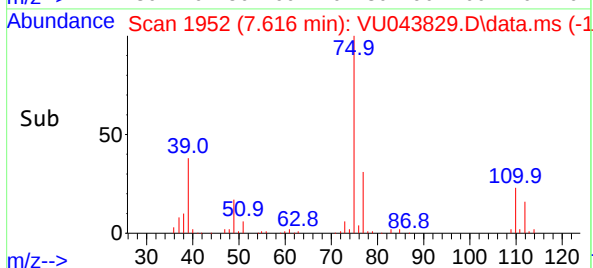
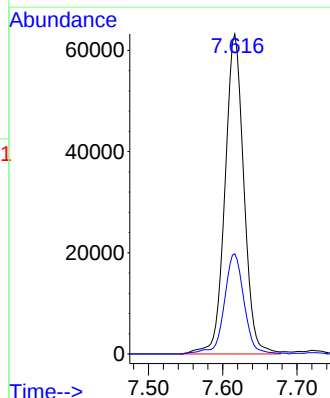
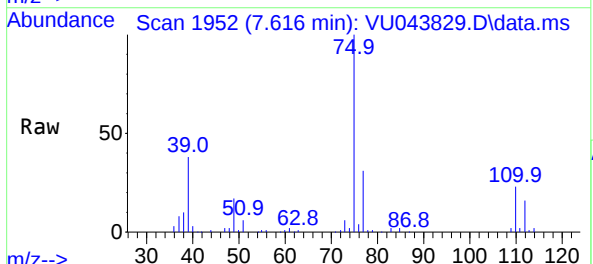
Ion	Ratio	Lower	Upper
95	100		
97	65.8	44.3	82.3
132	105.2	66.0	122.6
130	106.0	69.2	128.6

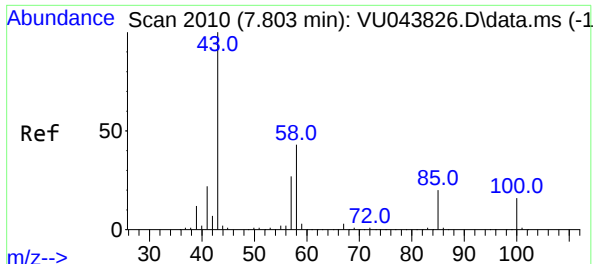


#39
cis-1,3-Dichloropropene
Concen: 4.96 ug/L
RT: 7.616 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 75 Resp: 111930

Ion	Ratio	Lower	Upper
75	100		
77	31.3	22.5	41.7

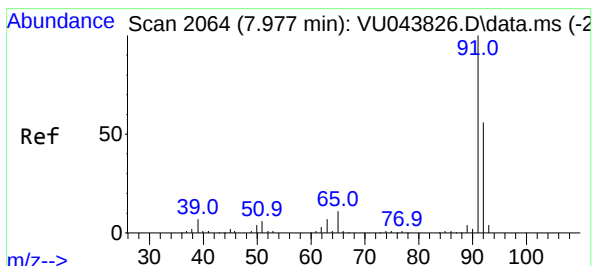
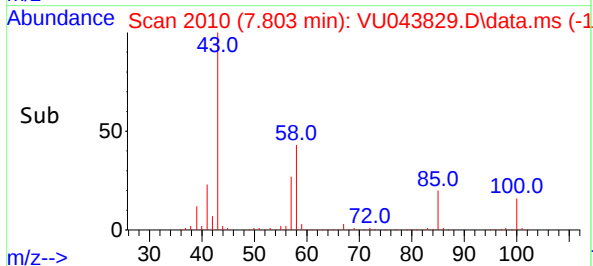
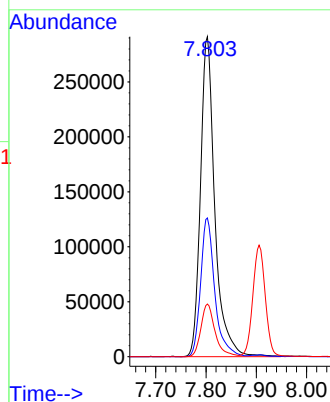
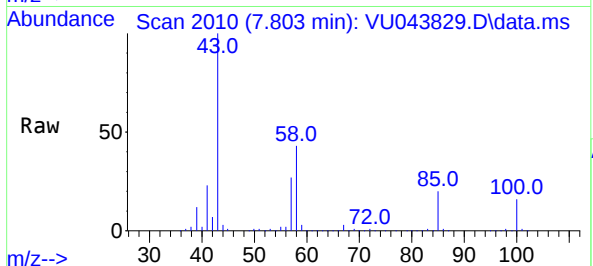




#40
4-Methyl-2-pentanone
Concen: 53.46 ug/L
RT: 7.803 min Scan# 2010
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

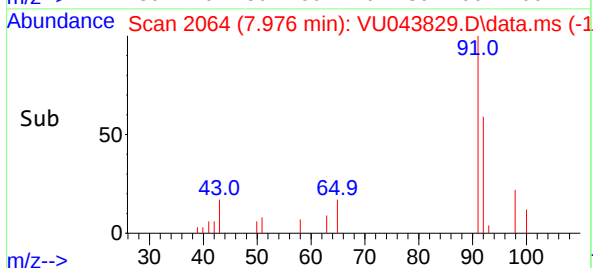
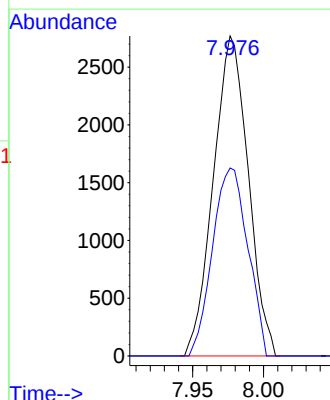
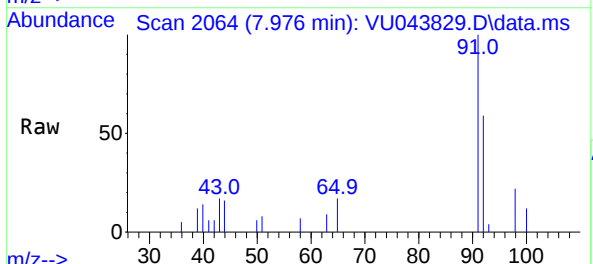
Instrument :
MSVOA_U
ClientSampled :
GB3Z8

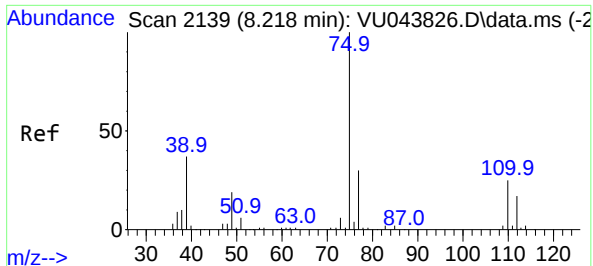
Tgt Ion: 43 Resp: 578444
Ion Ratio Lower Upper
43 100
58 42.8 32.8 49.2
100 16.3 11.9 17.9



#42
Toluene
Concen: 0.07 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 91 Resp: 4744
Ion Ratio Lower Upper
91 100
92 58.8 40.3 74.8

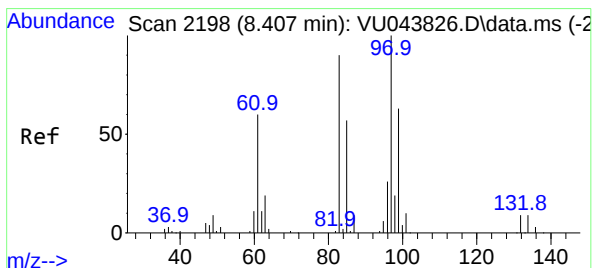
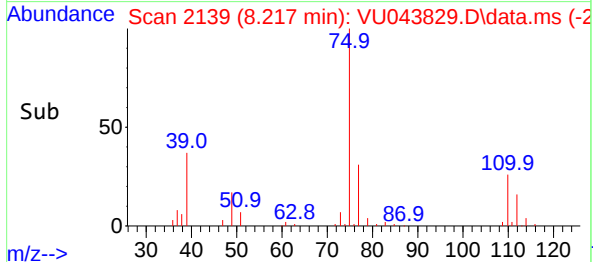
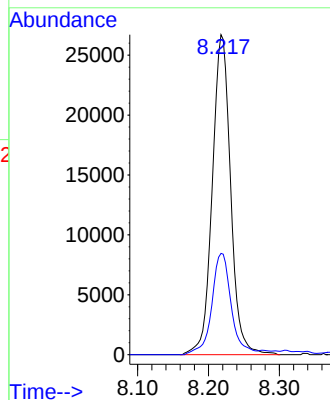
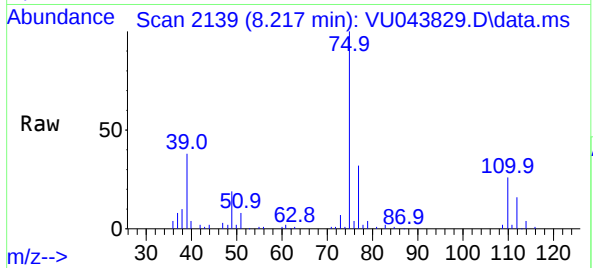




#44
trans-1,3-Dichloropropene
Concen: 2.47 ug/L
RT: 8.217 min Scan# 2139
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

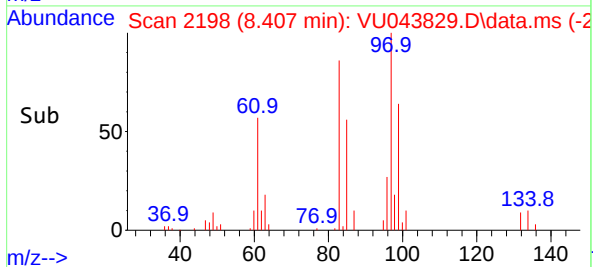
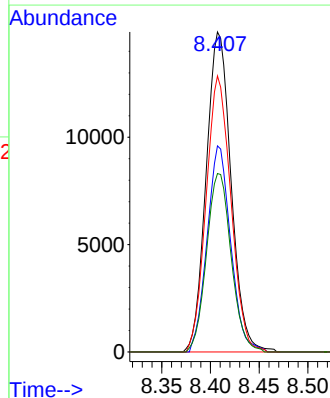
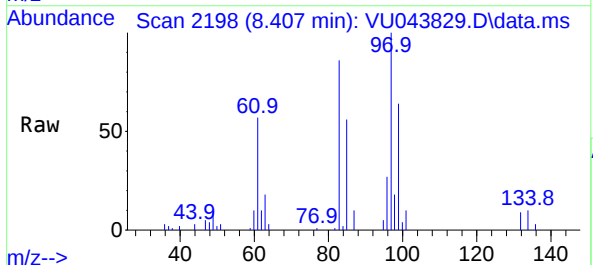
Instrument :
MSVOA_U
ClientSampleId :
GB3Z8

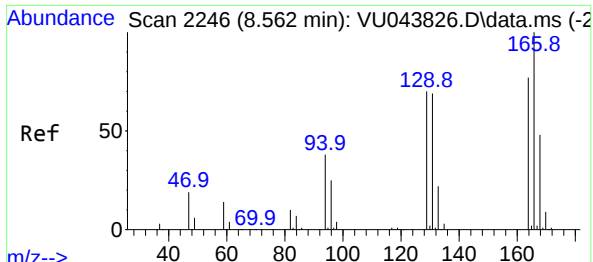
Tgt Ion: 75 Resp: 48029
Ion Ratio Lower Upper
75 100
77 31.7 21.5 39.9



#45
1,1,2-Trichloroethane
Concen: 2.17 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 97 Resp: 26509
Ion Ratio Lower Upper
97 100
99 64.4 43.8 81.4
83 86.2 62.5 116.1
85 55.7 40.9 75.9



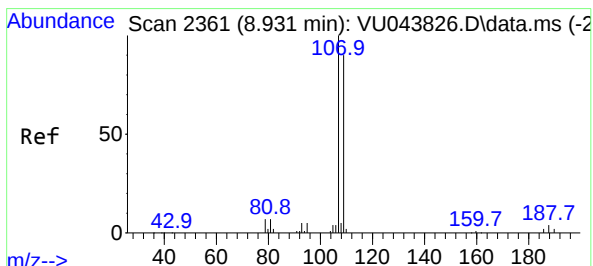
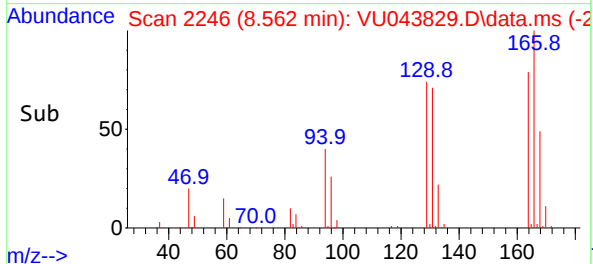
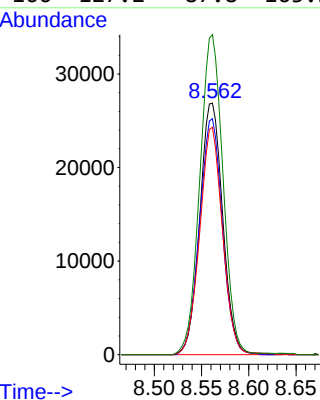
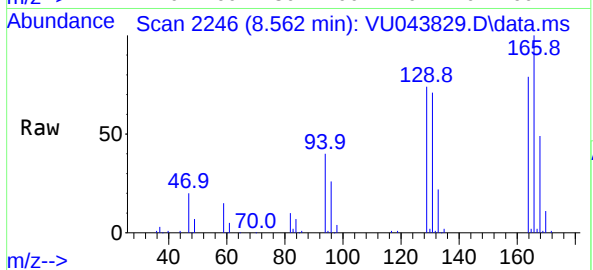


#47
Tetrachloroethene
Concen: 3.37 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Instrument :
MSVOA_U
ClientSampleId :
GB3Z8

Tgt Ion:164 Resp: 45386

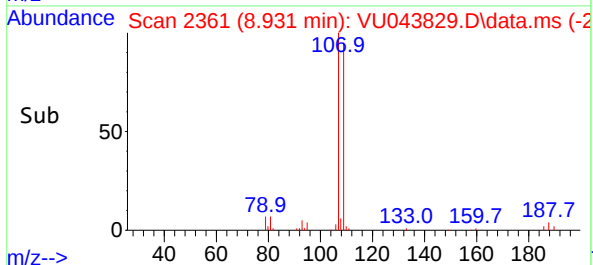
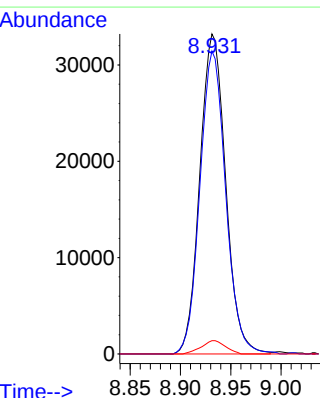
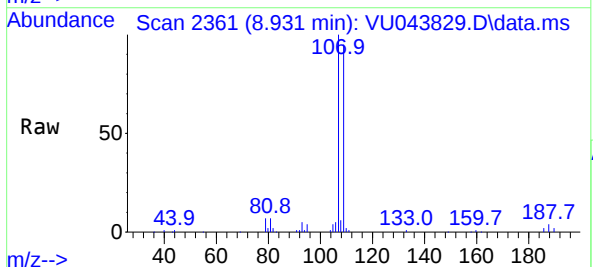
Ion	Ratio	Lower	Upper
164	100		
129	93.8	64.1	119.1
131	90.4	61.2	113.8
166	127.2	87.8	163.2

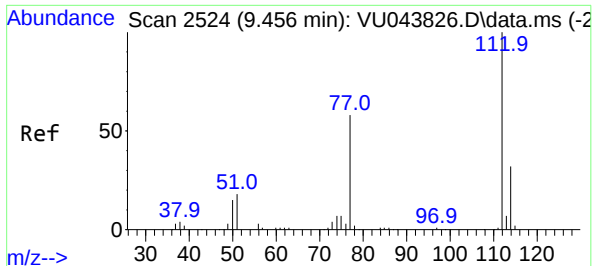


#50
1,2-Dibromoethane
Concen: 5.17 ug/L
RT: 8.931 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion:107 Resp: 59296

Ion	Ratio	Lower	Upper
107	100		
109	94.6	67.7	125.7
188	4.1	3.3	4.9

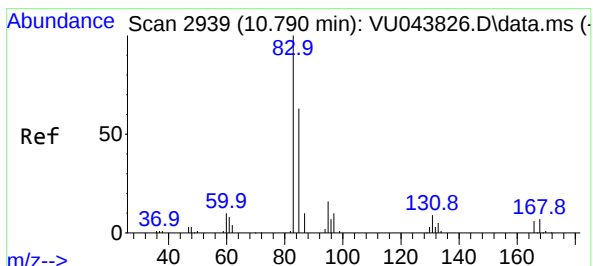
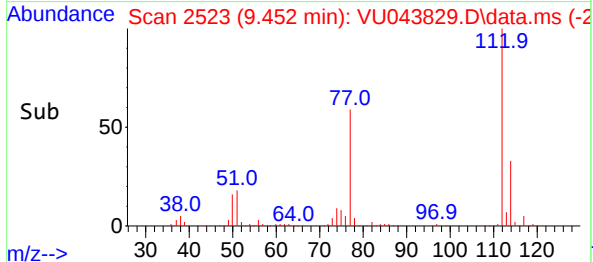
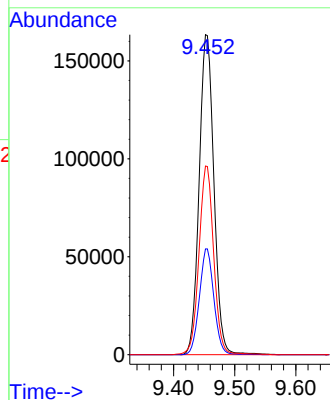
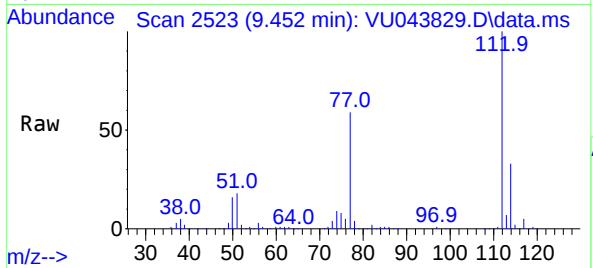




#51
Chlorobenzene
Concen: 6.43 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. -0.003 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

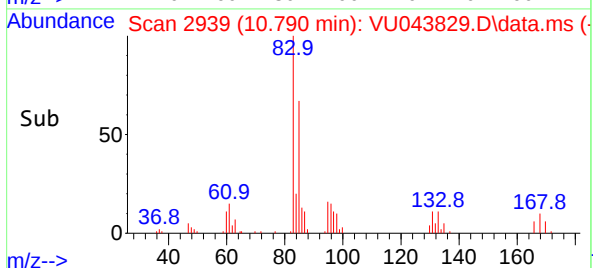
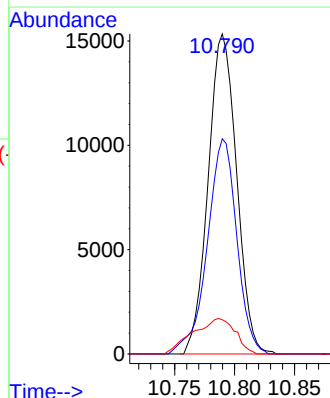
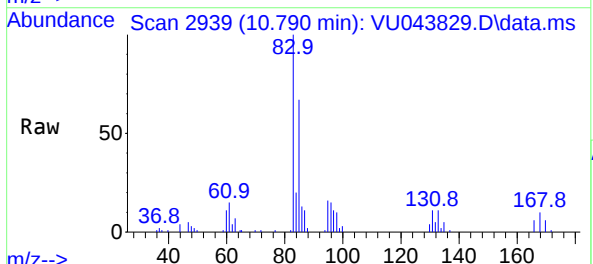
Instrument :
MSVOA_U
ClientSampled :
GB3Z8

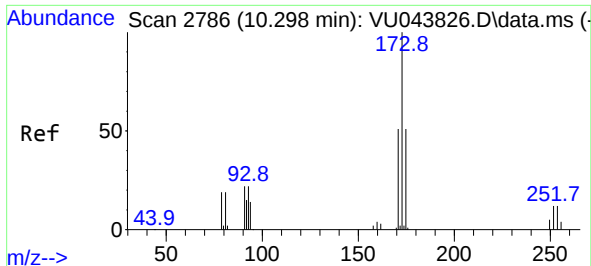
Tgt Ion:112 Resp: 273782
Ion Ratio Lower Upper
112 100
114 33.0 22.3 41.5
77 59.0 47.8 71.8



#57
1,1,2,2-Tetrachloroethane
Concen: 1.63 ug/L
RT: 10.790 min Scan# 2939
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion: 83 Resp: 25288
Ion Ratio Lower Upper
83 100
85 67.2 45.1 83.7
131 10.7 7.6 11.4

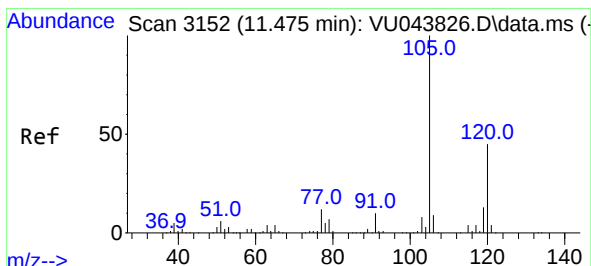
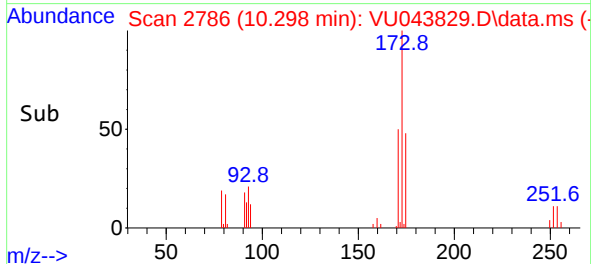
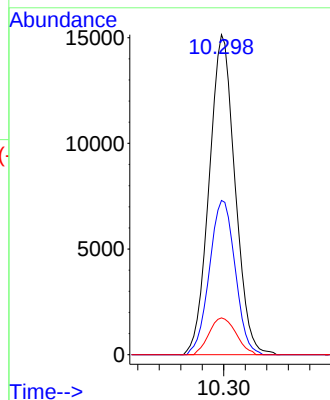
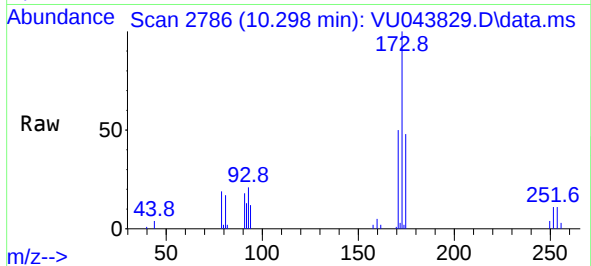




#59
Bromoform
Concen: 3.11 ug/L
RT: 10.298 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

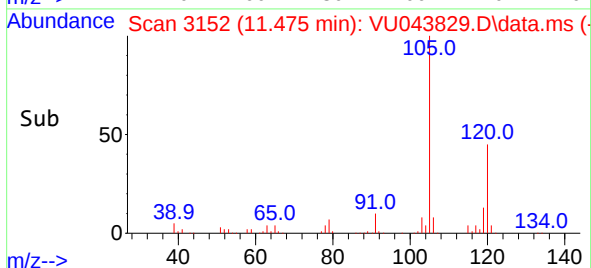
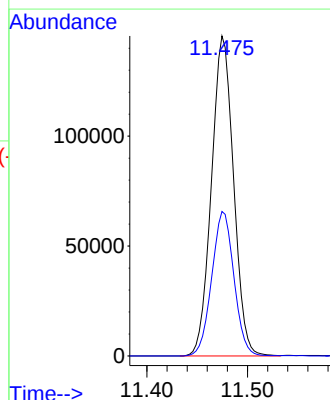
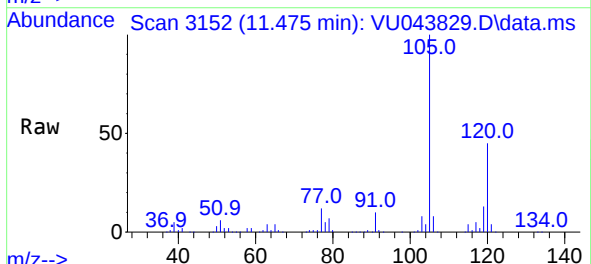
Instrument :
MSVOA_U
ClientSampled :
GB3Z8

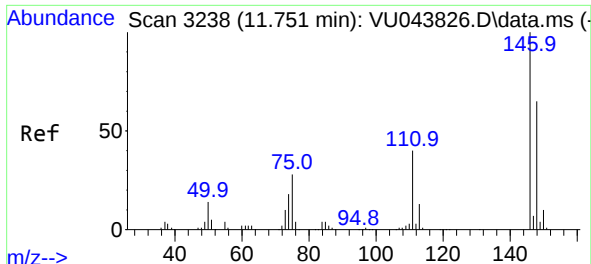
Tgt Ion:173 Resp: 25233
Ion Ratio Lower Upper
173 100
175 48.0 38.8 58.2
254 12.0 9.4 14.2



#63
1,2,4-Trimethylbenzene
Concen: 4.08 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion:105 Resp: 222578
Ion Ratio Lower Upper
105 100
120 45.3 36.0 54.0

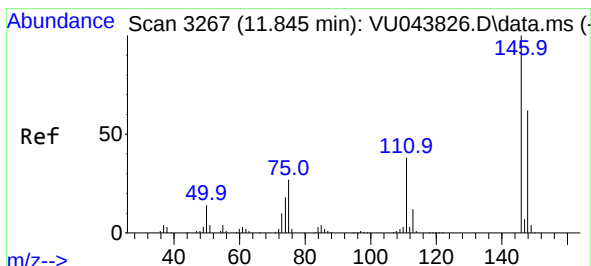
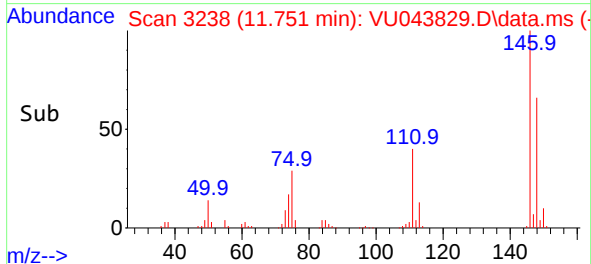
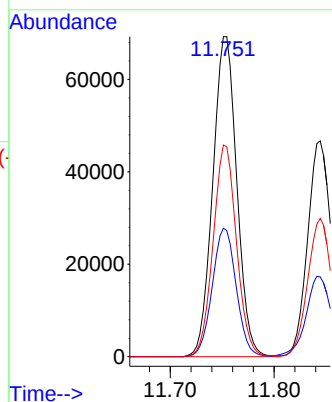
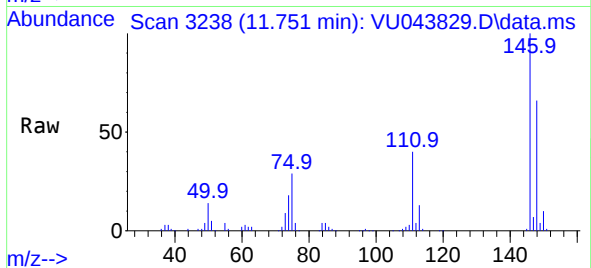




#64
1,3-Dichlorobenzene
Concen: 3.26 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

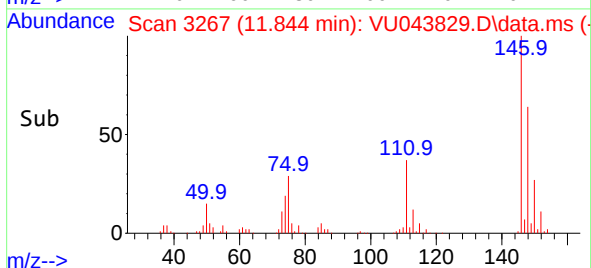
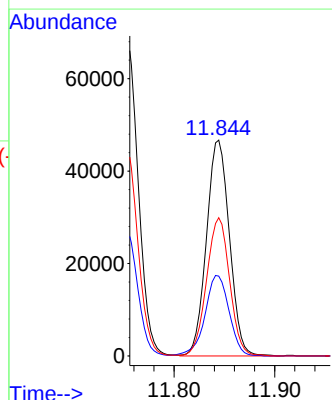
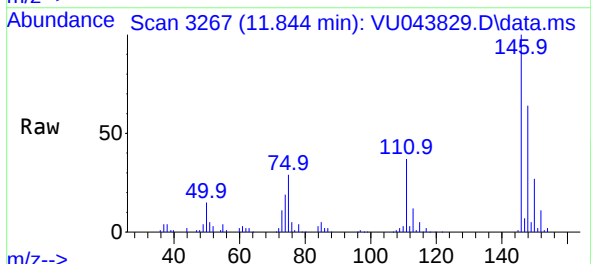
Instrument :
MSVOA_U
ClientSampled :
GB3Z8

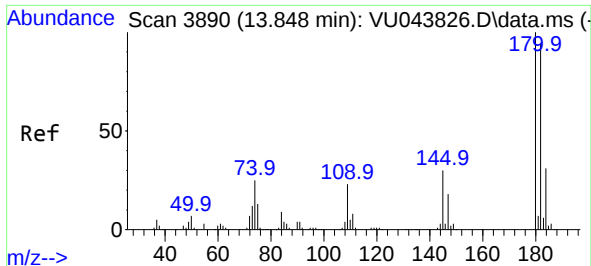
Tgt Ion:146 Resp: 111111
Ion Ratio Lower Upper
146 100
111 40.1 28.1 52.1
148 66.1 45.6 84.6



#65
1,4-Dichlorobenzene
Concen: 2.17 ug/L
RT: 11.844 min Scan# 3267
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion:146 Resp: 74256
Ion Ratio Lower Upper
146 100
111 37.0 27.0 50.2
148 64.0 45.0 83.6

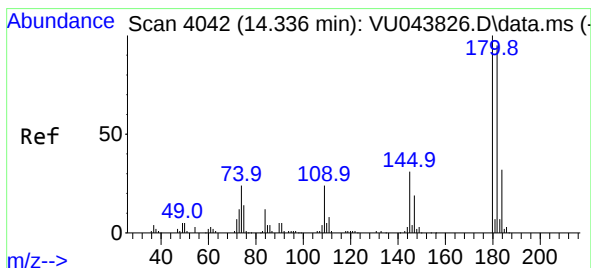
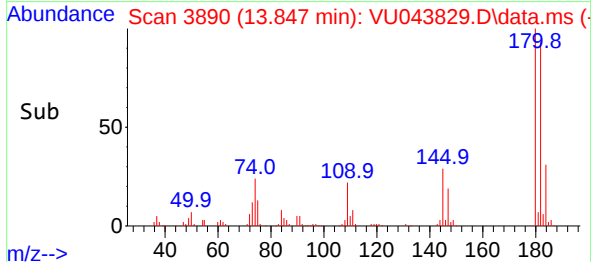
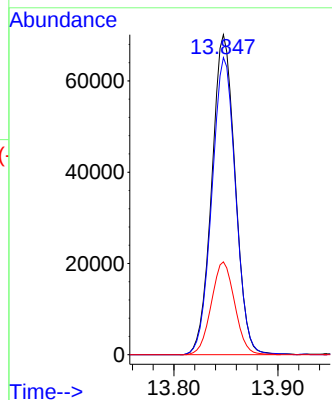
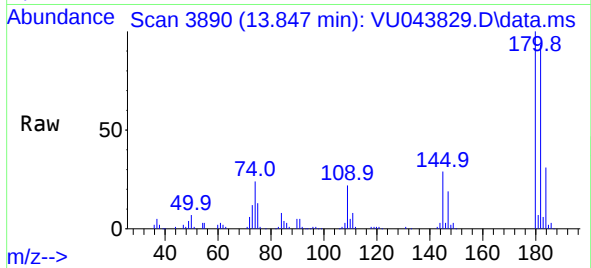




#70
1,2,4-trichlorobenzene
Concen: 4.88 ug/L
RT: 13.847 min Scan# 3890
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Instrument :
MSVOA_U
ClientSampleId :
GB3Z8

Tgt Ion:180 Resp: 109422
Ion Ratio Lower Upper
180 100
182 94.3 76.9 115.3
145 29.1 23.0 34.4



#72
1,2,3-Trichlorobenzene
Concen: 2.96 ug/L
RT: 14.336 min Scan# 4042
Delta R.T. -0.000 min
Lab File: VU043829.D
Acq: 19 May 2021 16:11

Tgt Ion:180 Resp: 62971
Ion Ratio Lower Upper
180 100
182 93.2 77.0 115.4
145 30.1 24.6 36.8

