

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051721\
 Data File : VU043795.D
 Acq On : 17 May 2021 16:36
 Operator : SY/MD
 Sample : M2380-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 18 03:12:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 15 00:49:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	231668	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	233216	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	107883	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.601	65	79970	4.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.60%
7) Chloroethane-d5	1.919	69	57917	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.00%
11) 1,1-Dichloroethene-d2	2.572	65	34512	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.40%
20) 2-Butanone-d5	4.645	46	154929	47.70	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.40%
24) Chloroform-d	5.073	84	140592	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	5.713	65	70710	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.735	84	294541	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.700	67	93376	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.00%
41) Toluene-d8	7.906	98	248925	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.00%
43) trans-1,3-Dichloroprop...	8.189	79	31868	4.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.00%
46) 2-Hexanone-d5	8.645	63	149440	47.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.70%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	73271	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.60%
66) 1,2-Dichlorobenzene-d4	12.201	152	96339	5.36	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.20%

Target Compounds

					Qvalue
3) Chloromethane	1.520	50	1932	0.10	ug/L 91
5) Vinyl chloride	1.607	62	51892	2.64	ug/L 99
12) 1,1-Dichloroethene	2.584	96	6907	0.45	ug/L # 1
17) Methyl tert-butyl Ether	3.372	73	4108	0.12	ug/L # 1
18) trans-1,2-Dichloroethene	3.363	96	4783	0.30	ug/L 95
19) 1,1-Dichloroethane	3.880	63	116859	4.03	ug/L 98
22) cis-1,2-Dichloroethene	4.678	96	152873	9.06	ug/L 100
25) Chloroform	5.099	83	68003	2.37	ug/L 95
27) 1,2-Dichloroethane	5.806	62	10974	0.62	ug/L 96
29) 1,1,1-Trichloroethane	5.324	97	33465	1.38	ug/L 98
30) Cyclohexane	5.395	56	3365	0.12	ug/L # 85
31) Carbon tetrachloride	5.327	117	4727	0.23	ug/L 99
33) Benzene	5.784	78	23760	0.35	ug/L 100
34) Trichloroethene	6.552	95	7231	0.42	ug/L 97
35) Methylcyclohexane	6.700	83	20773	0.77	ug/L # 18
37) 1,2-Dichloropropane	6.700	63	8831	0.50	ug/L # 88
39) cis-1,3-Dichloropropene	7.575	75	2012	0.09	ug/L # 54
42) Toluene	7.977	91	4323	0.06	ug/L 99
45) 1,1,2-Trichloroethane	8.411	97	5814	0.46	ug/L 91

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

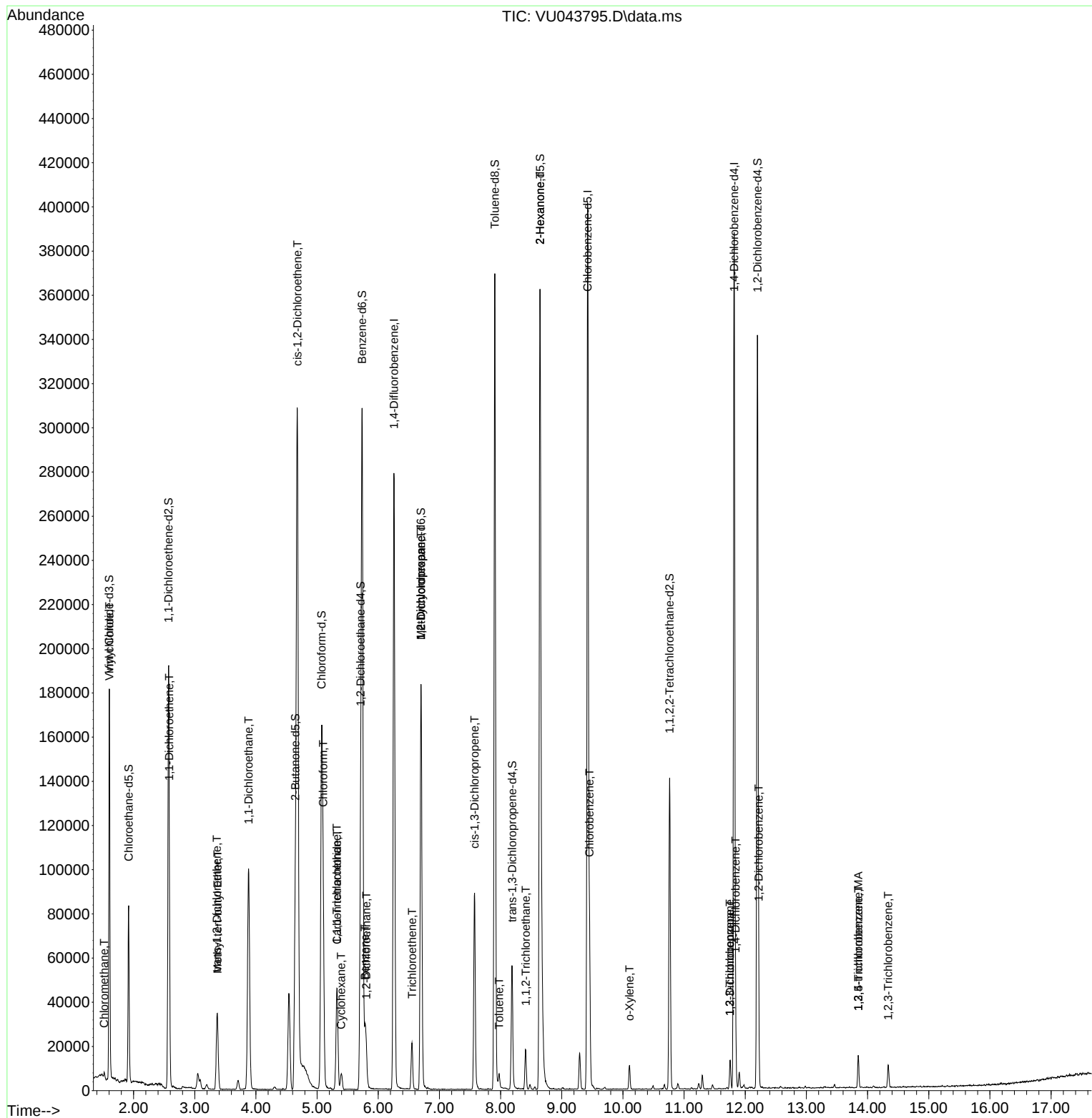
48) 2-Hexanone	8.645	43	17130	2.05	ug/L #	65
51) Chlorobenzene	9.452	112	35262	0.80	ug/L	97
54) o-Xylene	10.108	106	2959	0.11	ug/L	90
61) 1,2,3-Trichloropropane	11.751	75	1601	0.16	ug/L #	43
64) 1,3-Dichlorobenzene	11.751	146	5825	0.19	ug/L	96
65) 1,4-Dichlorobenzene	11.845	146	7778	0.25	ug/L	96
67) 1,2-Dichlorobenzene	12.221	146	3936	0.13	ug/L	96
69) 1,3,5-Trichlorobenzene	13.848	180	4991	0.21	ug/L	97
70) 1,2,4-trichlorobenzene	13.848	180	4991	0.25	ug/L	99
72) 1,2,3-Trichlorobenzene	14.336	180	3854	0.20	ug/L	95

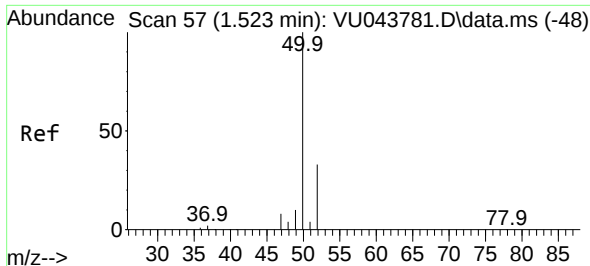
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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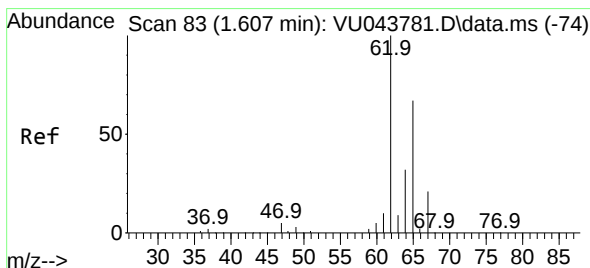
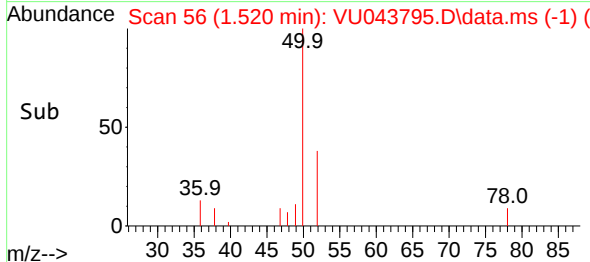
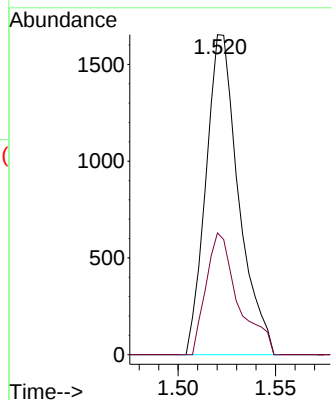
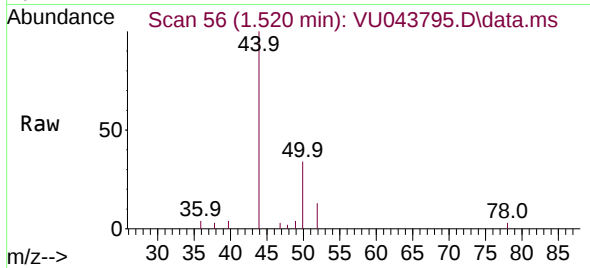




#3
Chloromethane
Concen: 0.10 ug/L
RT: 1.520 min Scan# 56
Delta R.T. -0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

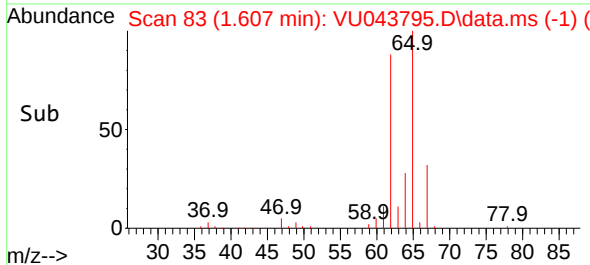
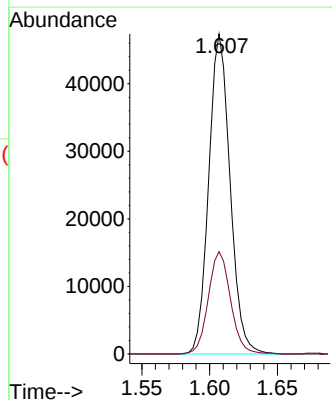
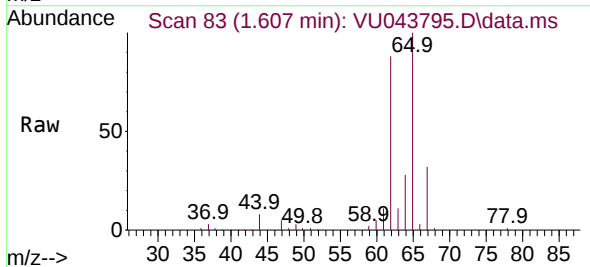
Instrument :
MSVOA_U
ClientSampled :

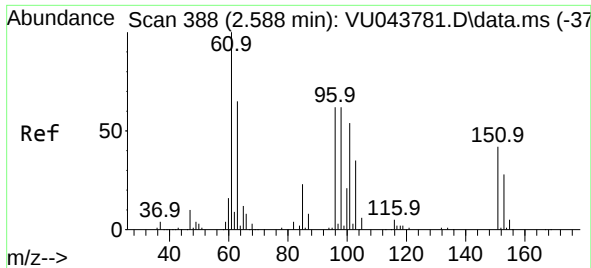
Tgt Ion: 50 Resp: 1932
Ion Ratio Lower Upper
50 100
52 38.0 23.2 43.2



#5
Vinyl chloride
Concen: 2.64 ug/L
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion: 62 Resp: 51892
Ion Ratio Lower Upper
62 100
64 32.0 22.1 41.1





#12

1,1-Dichloroethene

Concen: 0.45 ug/L

RT: 2.584 min Scan# 387

Delta R.T. -0.003 min

Lab File: VU043795.D

Acq: 17 May 2021 16:36

Tgt Ion: 96 Resp: 6907

Ion Ratio Lower Upper

96 100

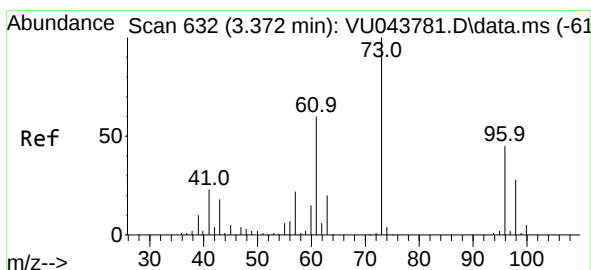
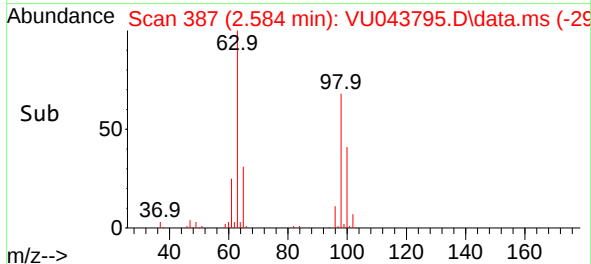
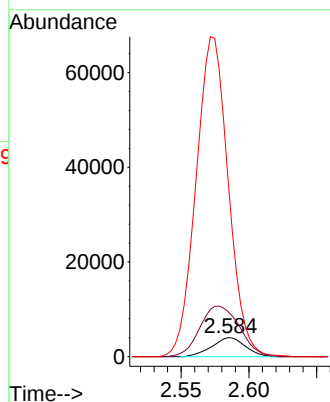
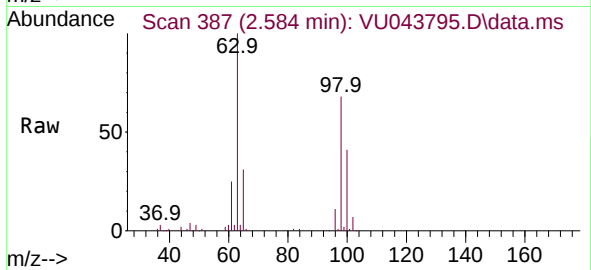
61 237.0 117.5 218.1#

63 938.6 77.3 143.7#

Instrument :

MSVOA_U

ClientSampleId :



#17

Methyl tert-butyl Ether

Concen: 0.12 ug/L

RT: 3.372 min Scan# 632

Delta R.T. 0.000 min

Lab File: VU043795.D

Acq: 17 May 2021 16:36

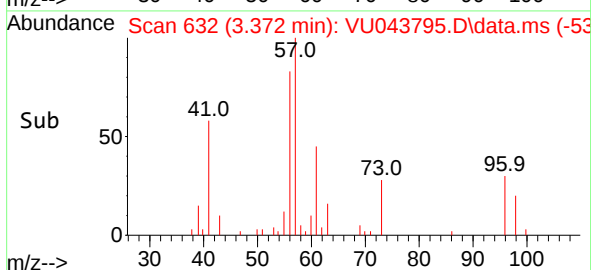
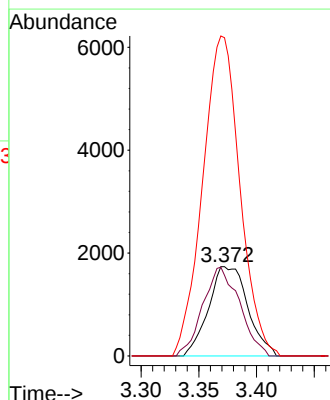
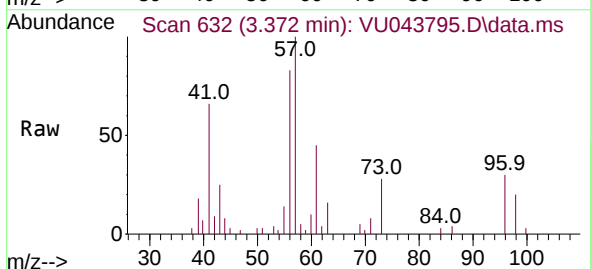
Tgt Ion: 73 Resp: 4108

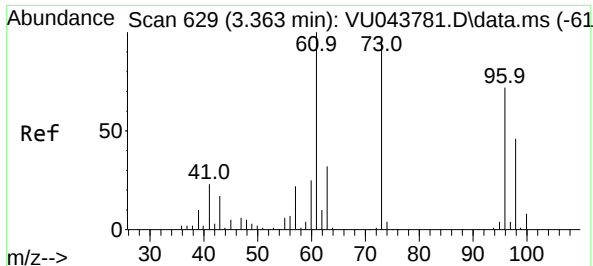
Ion Ratio Lower Upper

73 100

43 92.8 15.0 22.4#

57 338.7 18.6 27.8#



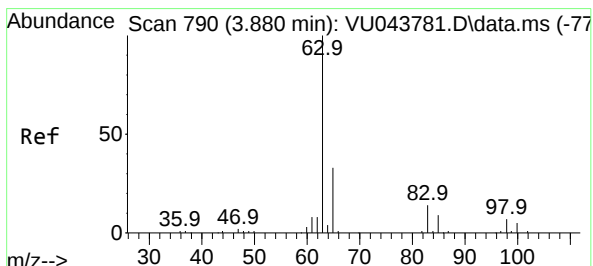
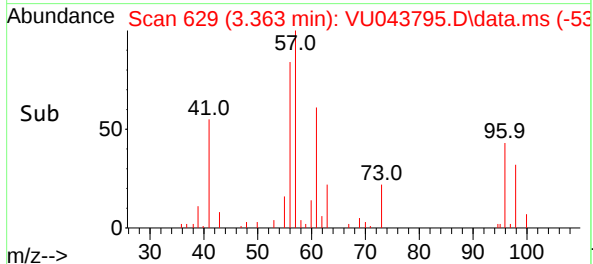
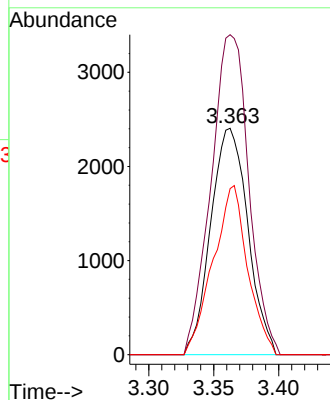
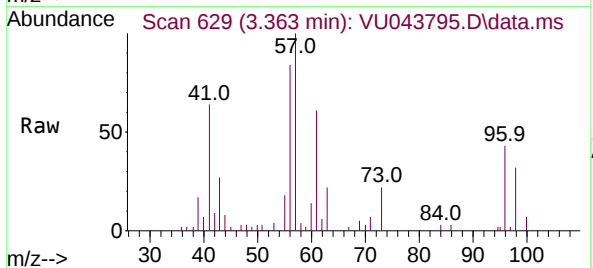


#18

trans-1,2-Dichloroethene
Concen: 0.30 ug/L
RT: 3.363 min Scan# 629
Delta R.T. 0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_U
ClientSampleId :

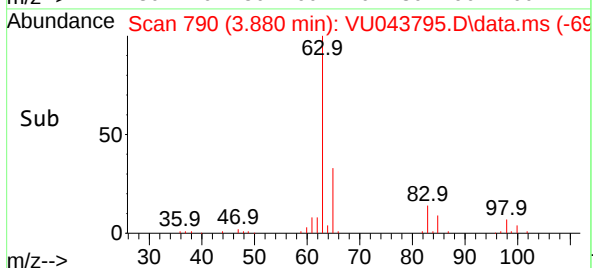
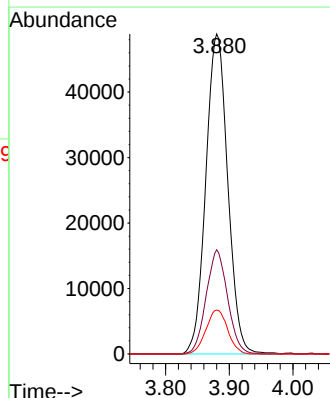
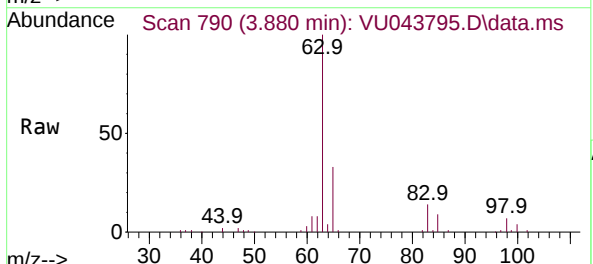
Tgt Ion:	96	Resp:	4783
Ion	Ratio	Lower	Upper
96	100		
61	141.4	99.6	185.0
98	73.3	43.8	81.4

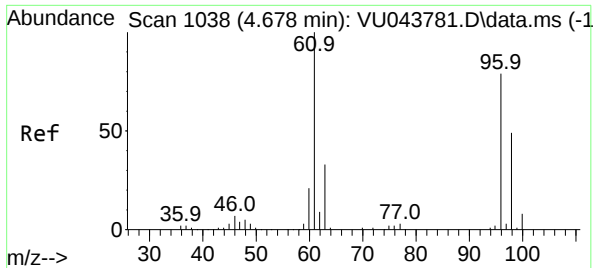


#19

1,1-Dichloroethane
Concen: 4.03 ug/L
RT: 3.880 min Scan# 790
Delta R.T. 0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion:	63	Resp:	116859
Ion	Ratio	Lower	Upper
63	100		
65	32.5	22.3	41.3
83	13.7	9.0	16.8

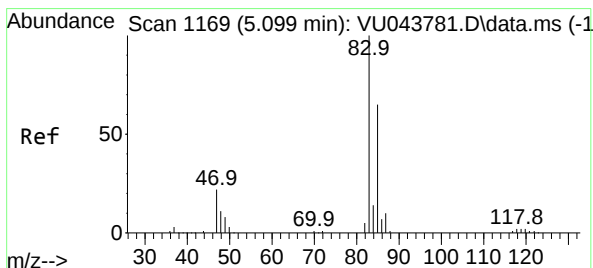
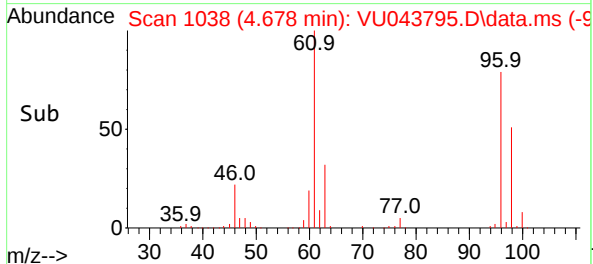
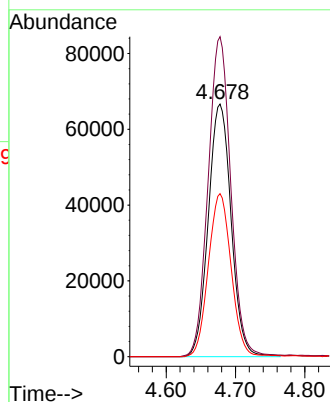
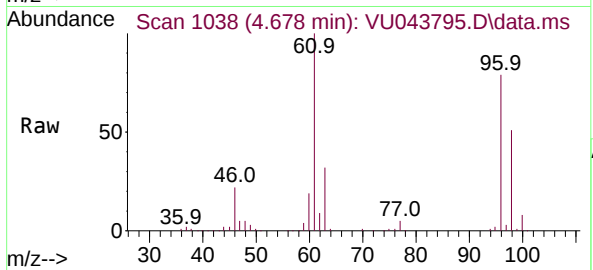




#22
cis-1,2-Dichloroethene
Concen: 9.06 ug/L
RT: 4.678 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

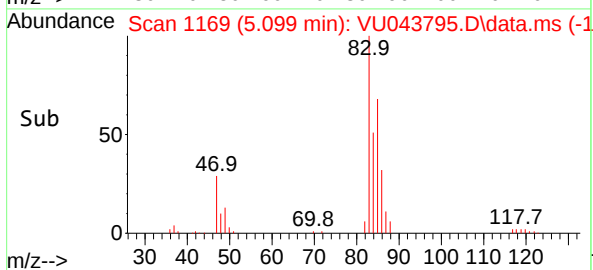
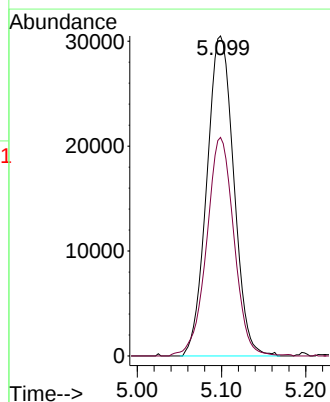
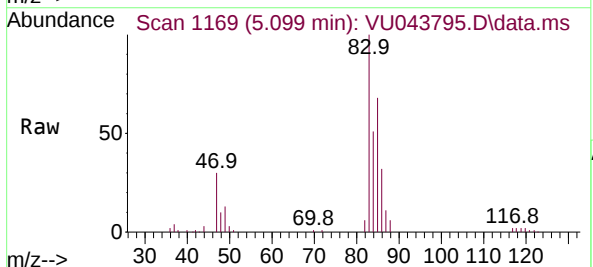
Instrument :
MSVOA_U
ClientSampleId :

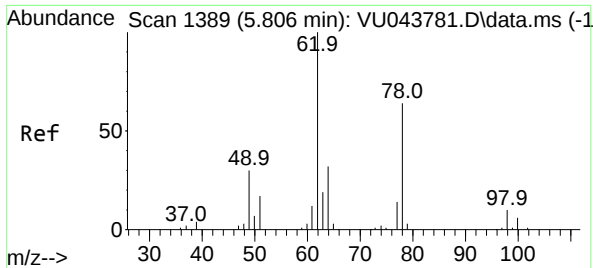
Tgt Ion: 96 Resp: 152873
Ion Ratio Lower Upper
96 100
61 126.7 89.0 165.4
98 64.6 44.9 83.3



#25
Chloroform
Concen: 2.37 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. 0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion: 83 Resp: 68003
Ion Ratio Lower Upper
83 100
85 68.3 45.0 83.6

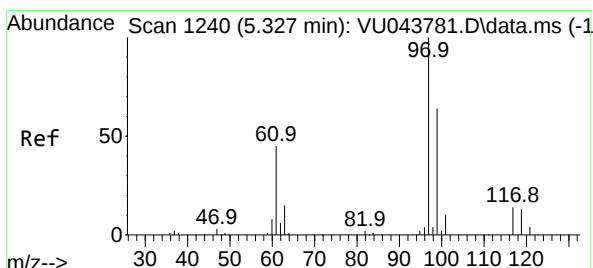
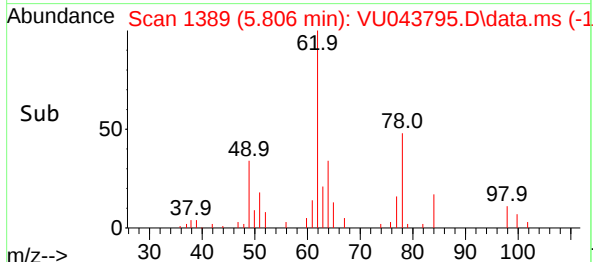
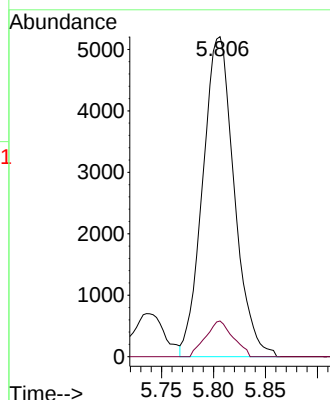
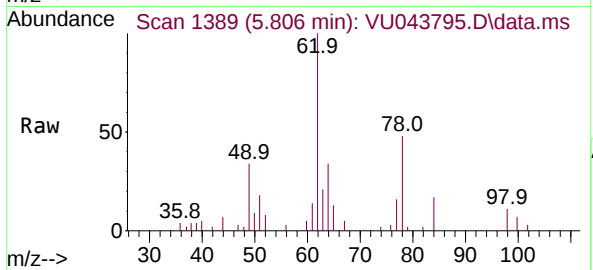




#27
1,2-Dichloroethane
Concen: 0.62 ug/L
RT: 5.806 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

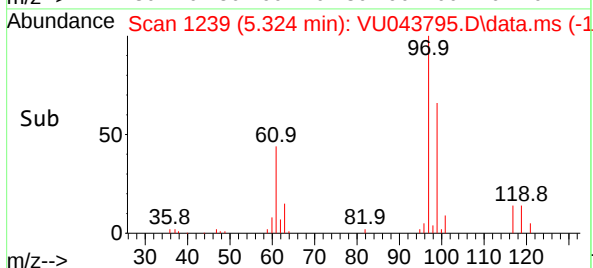
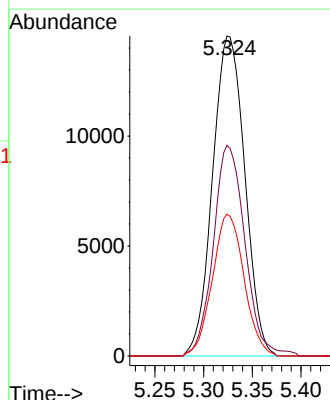
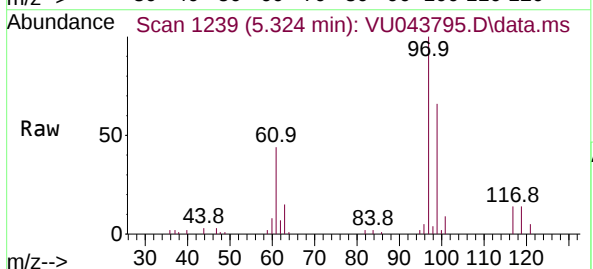
Instrument :
MSVOA_U
ClientSampled :

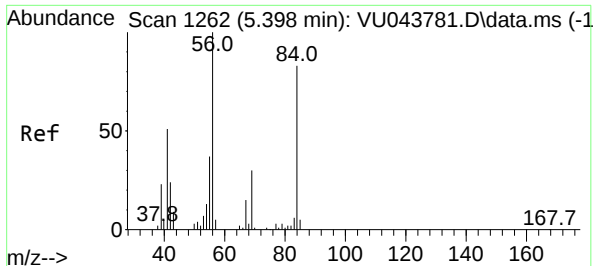
Tgt Ion: 62 Resp: 10974
Ion Ratio Lower Upper
62 100
98 11.2 7.7 11.5



#29
1,1,1-Trichloroethane
Concen: 1.38 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. -0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion: 97 Resp: 33465
Ion Ratio Lower Upper
97 100
99 64.7 51.1 76.7
61 43.6 37.0 55.4





#30

Cyclohexane

Concen: 0.12 ug/L

RT: 5.395 min Scan# 1261

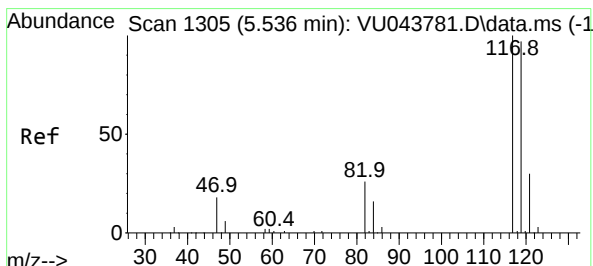
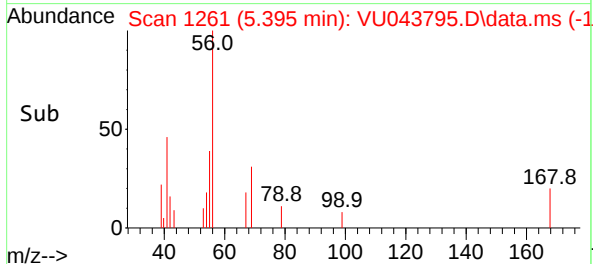
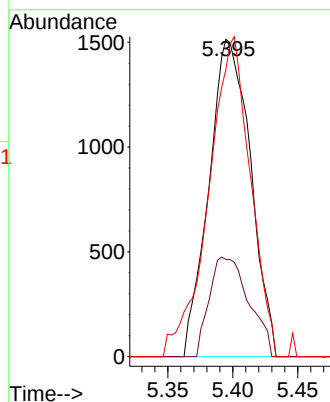
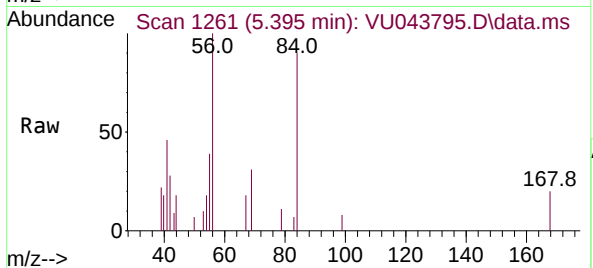
Delta R.T. -0.003 min

Lab File: VU043795.D

Acq: 17 May 2021 16:36

Tgt Ion:	56	Resp:	3365
Ion Ratio	Lower	Upper	
56	100		
69	29.9	24.8	37.2
84	101.1	66.8	100.2

Instrument :
MSVOA_U
ClientSampleId :



#31

Carbon tetrachloride

Concen: 0.23 ug/L

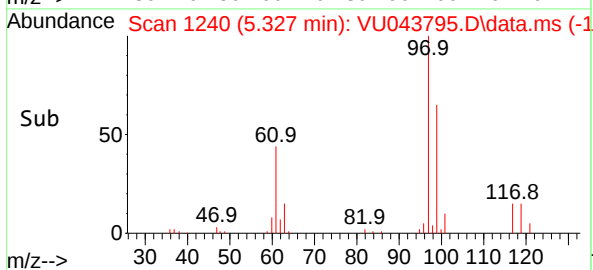
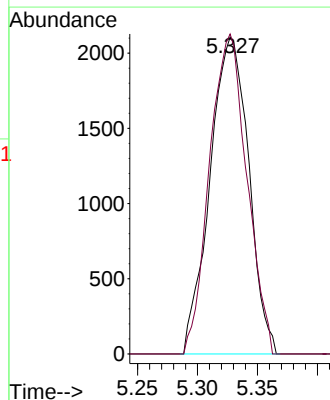
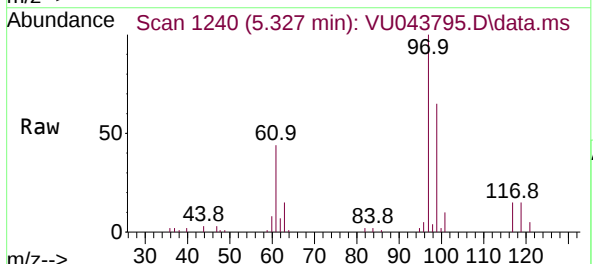
RT: 5.327 min Scan# 1240

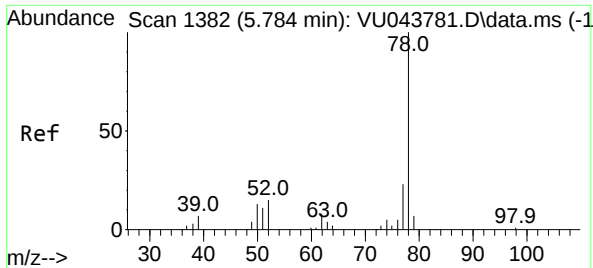
Delta R.T. -0.206 min

Lab File: VU043795.D

Acq: 17 May 2021 16:36

Tgt Ion:	117	Resp:	4727
Ion Ratio	Lower	Upper	
117	100		
119	97.2	77.4	116.0

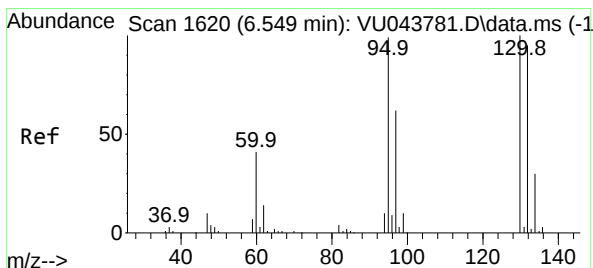
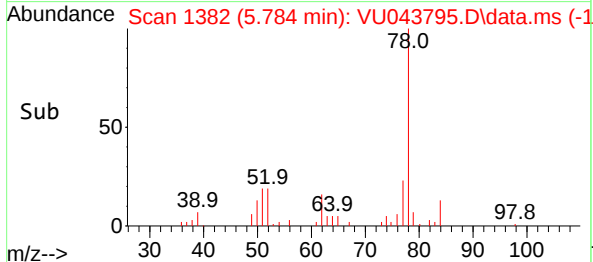
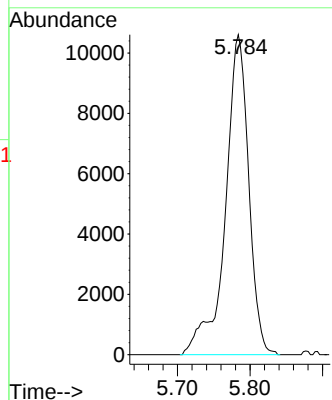
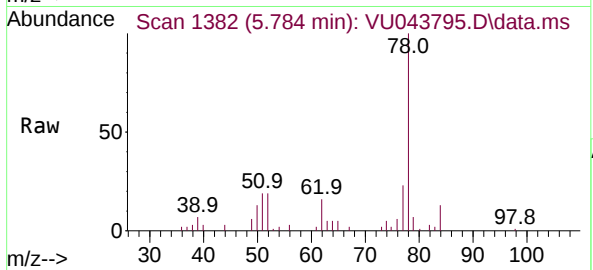




#33
Benzene
Concen: 0.35 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_U
ClientSampleId :

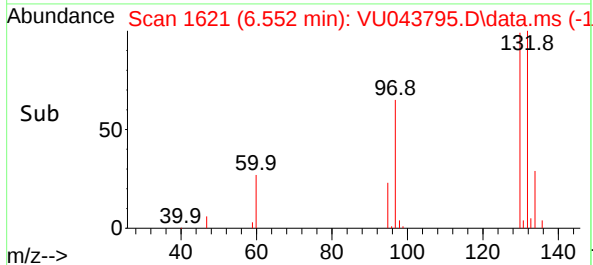
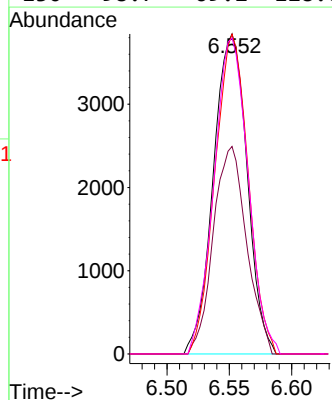
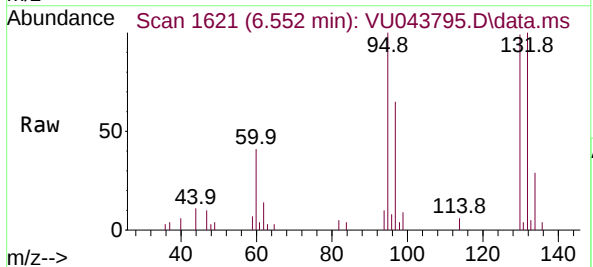
Tgt Ion: 78 Resp: 23760

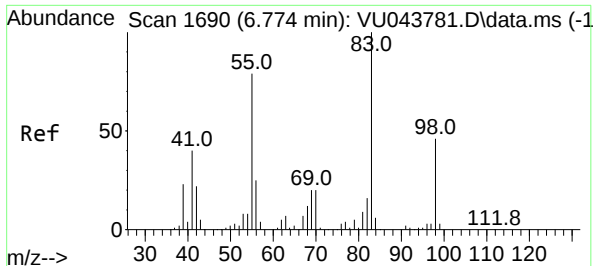


#34
Trichloroethene
Concen: 0.42 ug/L
RT: 6.552 min Scan# 1621
Delta R.T. 0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion: 95 Resp: 7231

Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.3	82.3
132	99.9	66.0	122.6
130	98.7	69.2	128.6

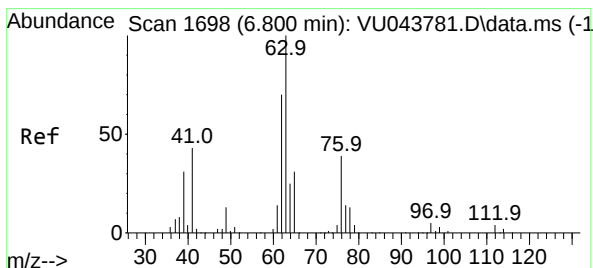
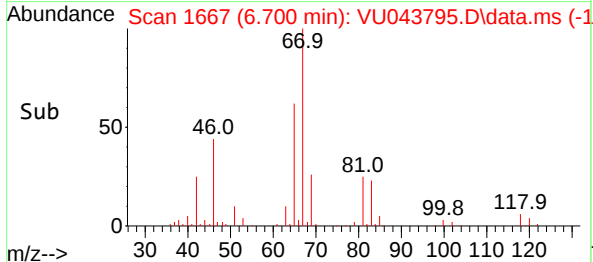
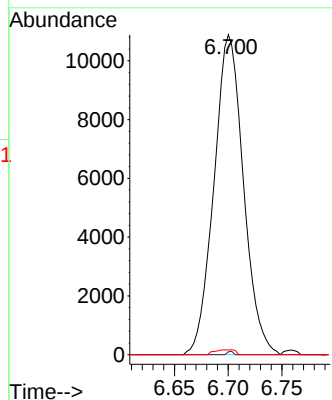
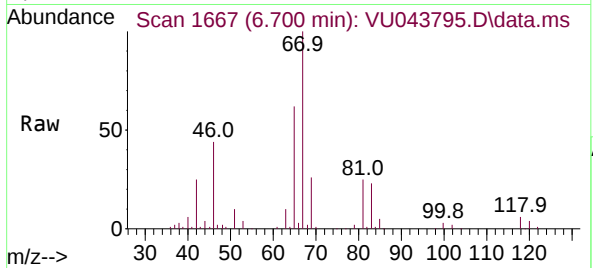




#35
Methylcyclohexane
Concen: 0.77 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.071 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

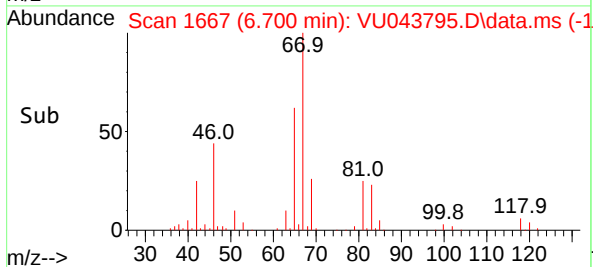
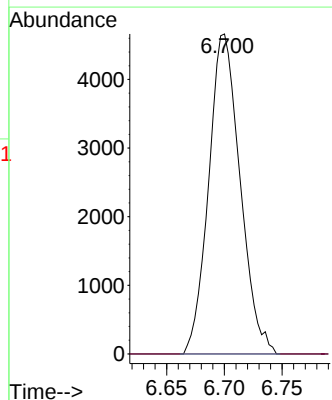
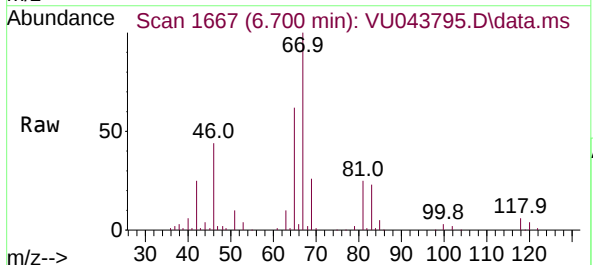
Instrument :
MSVOA_U
ClientSampled :

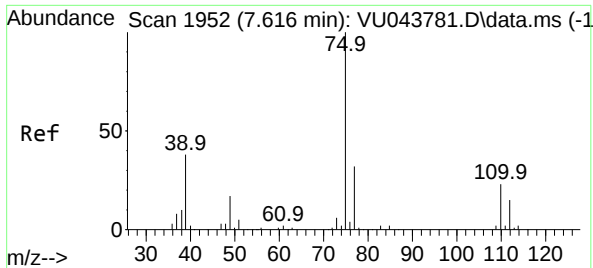
Tgt Ion	Ratio	Lower	Upper
83	100		
55	0.2	64.8	97.2#
98	1.1	35.9	53.9#



#37
1,2-Dichloropropane
Concen: 0.50 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.100 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.3	4.9#

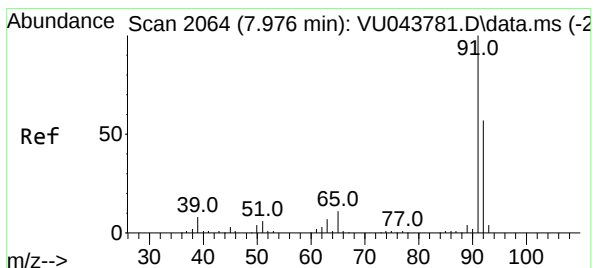
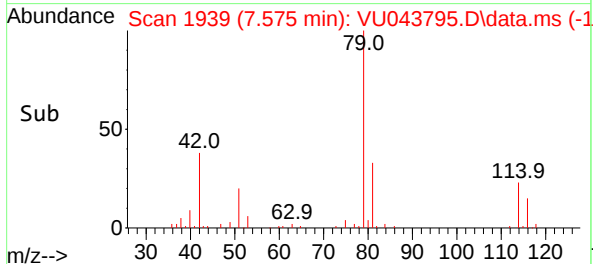
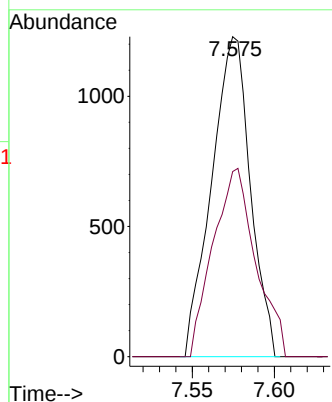
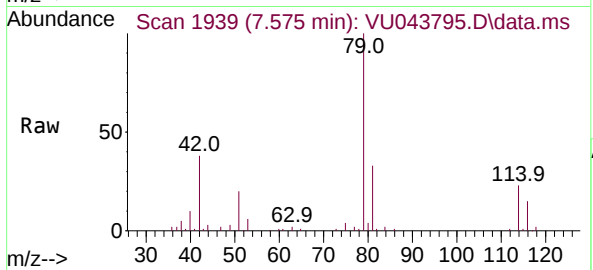




#39
cis-1,3-Dichloropropene
Concen: 0.09 ug/L
RT: 7.575 min Scan# 1939
Delta R.T. -0.039 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

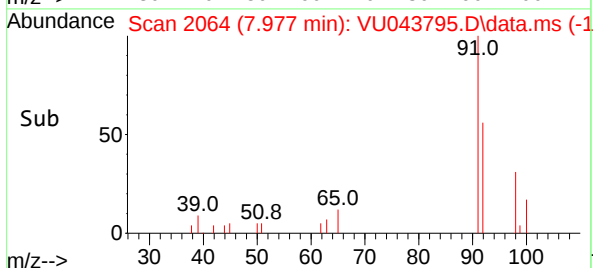
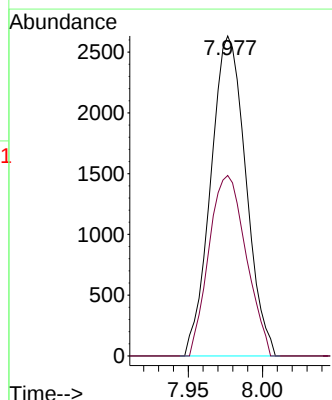
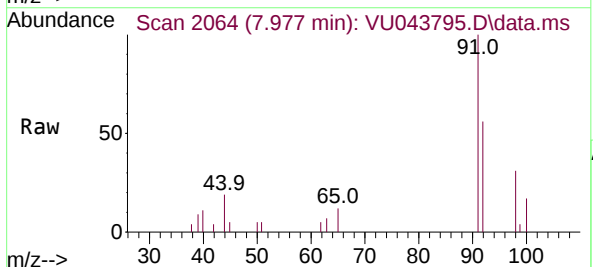
Instrument :
MSVOA_U
ClientSampled :

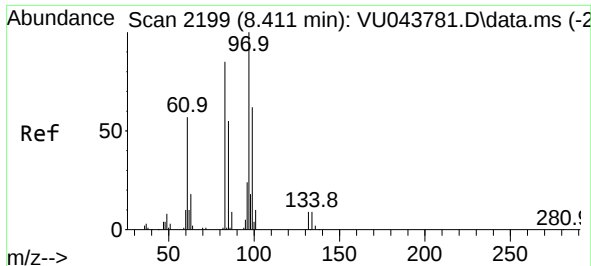
Tgt Ion: 75 Resp: 2012
Ion Ratio Lower Upper
75 100
77 57.9 22.5 41.7#



#42
Toluene
Concen: 0.06 ug/L
RT: 7.977 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion: 91 Resp: 4323
Ion Ratio Lower Upper
91 100
92 56.4 40.3 74.8

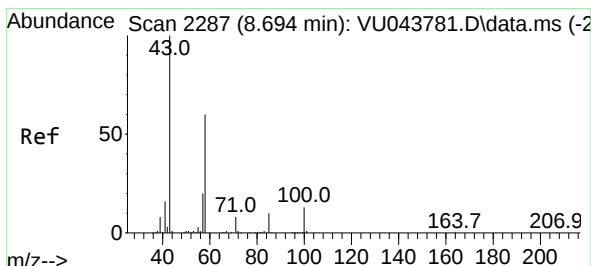
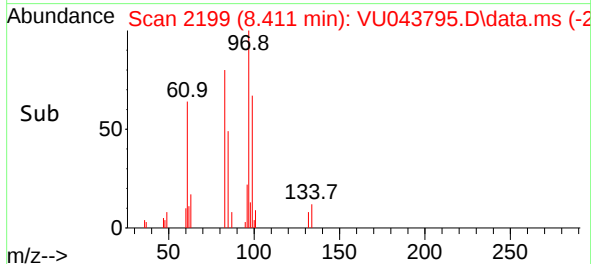
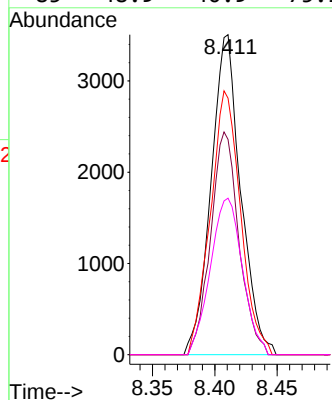
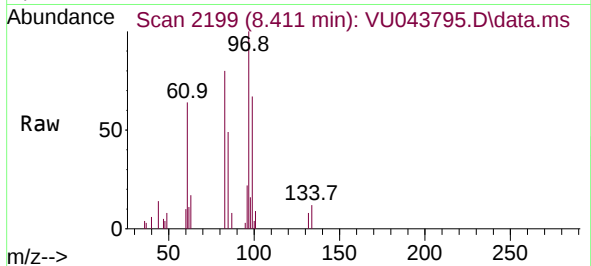




#45
1,1,2-Trichloroethane
Concen: 0.46 ug/L
RT: 8.411 min Scan# 2199
Delta R.T. 0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

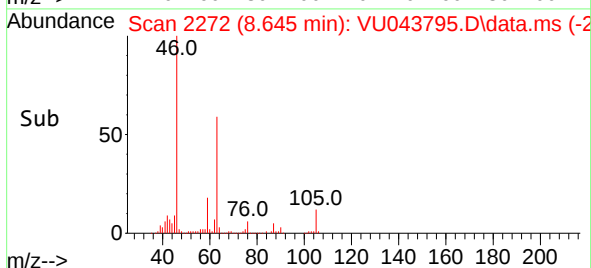
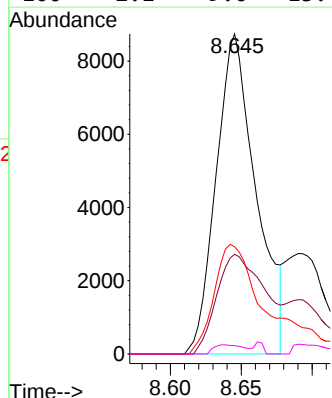
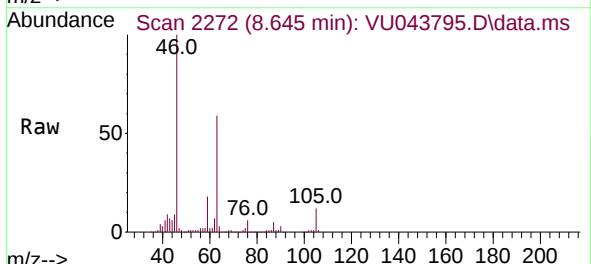
Instrument :
MSVOA_U
ClientSampled :

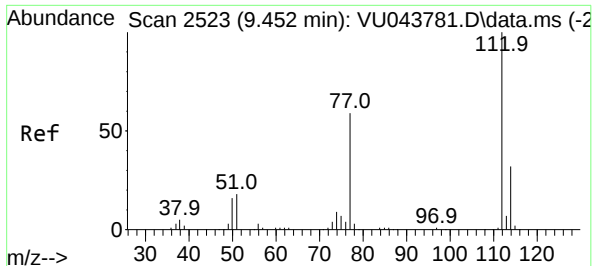
Tgt Ion:	97	Resp:	5814
Ion	Ratio	Lower	Upper
97	100		
99	67.3	43.8	81.4
83	80.2	62.5	116.1
85	48.9	40.9	75.9



#48
2-Hexanone
Concen: 2.05 ug/L
RT: 8.645 min Scan# 2272
Delta R.T. -0.048 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion:	43	Resp:	17130
Ion	Ratio	Lower	Upper
43	100		
58	37.5	47.0	70.4#
57	46.8	15.8	23.8#
100	2.1	9.0	13.4#

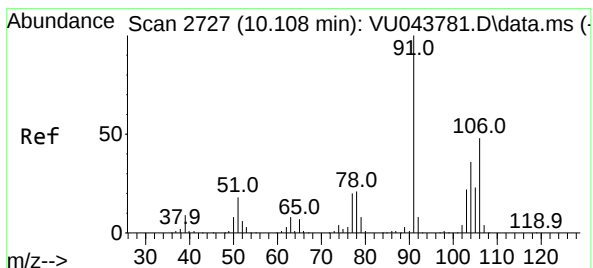
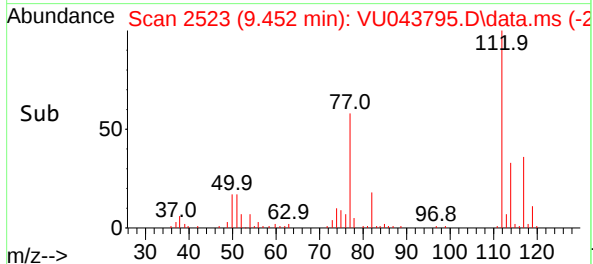
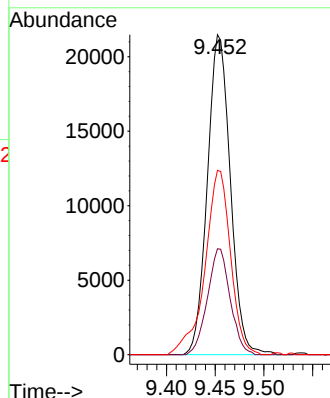
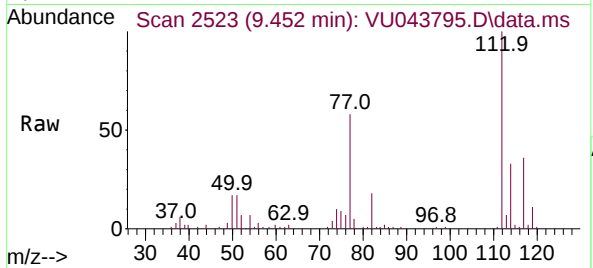




#51
Chlorobenzene
Concen: 0.80 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. -0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

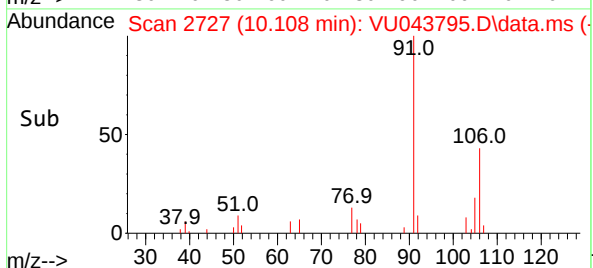
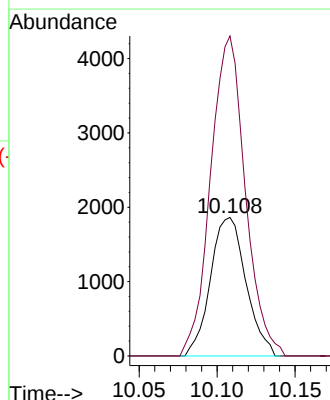
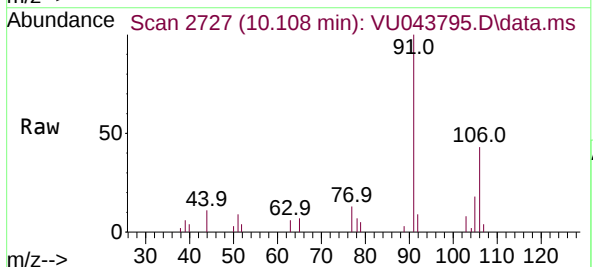
Instrument :
MSVOA_U
ClientSampled :

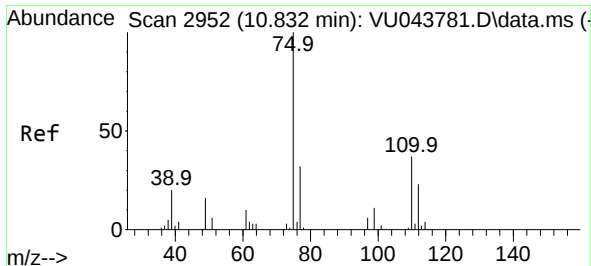
Tgt Ion:112 Resp: 35262
Ion Ratio Lower Upper
112 100
114 33.1 22.3 41.5
77 57.6 47.8 71.8



#54
o-Xylene
Concen: 0.11 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion:106 Resp: 2959
Ion Ratio Lower Upper
106 100
91 231.0 150.8 280.0

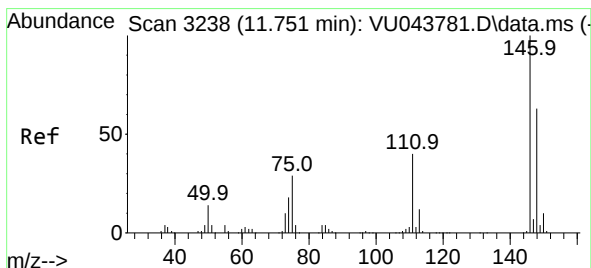
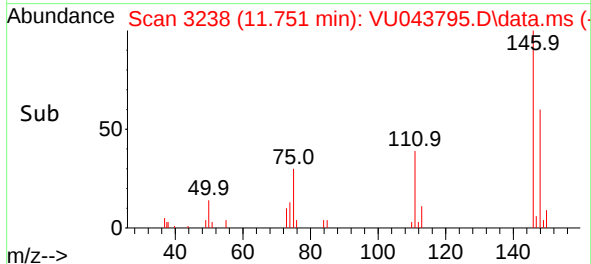
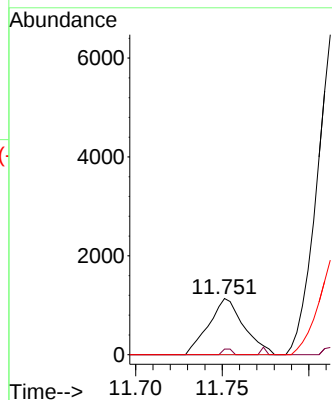
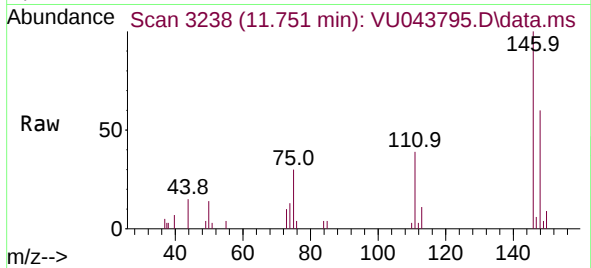




#61
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.923 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

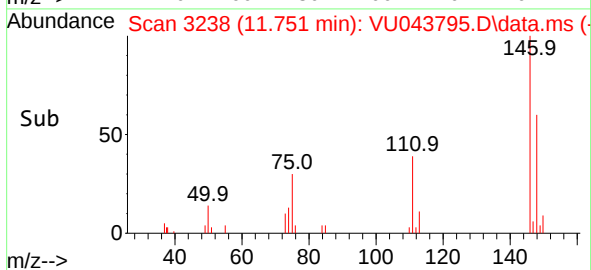
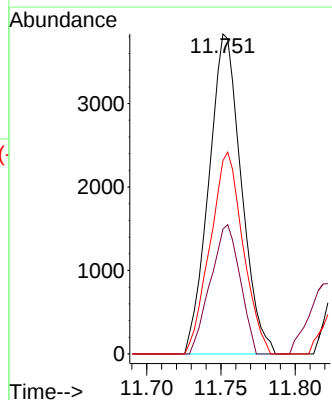
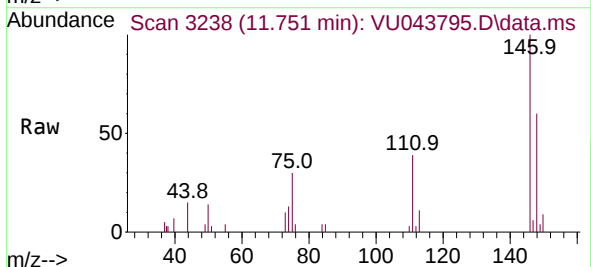
Instrument :
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ClientSampled :

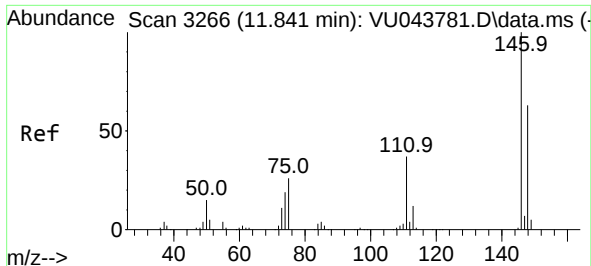
Tgt Ion: 75 Resp: 1601
Ion Ratio Lower Upper
75 100
110 2.7 27.9 41.9#
77 0.0 25.9 38.9#



#64
1,3-Dichlorobenzene
Concen: 0.19 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion: 146 Resp: 5825
Ion Ratio Lower Upper
146 100
111 39.0 28.1 52.1
148 60.4 45.6 84.6

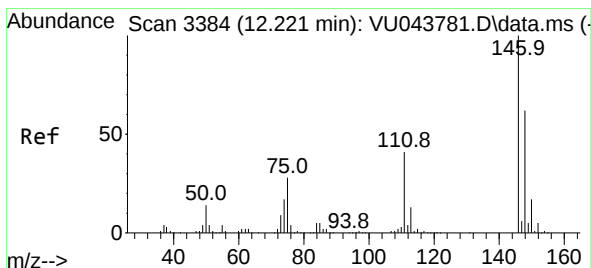
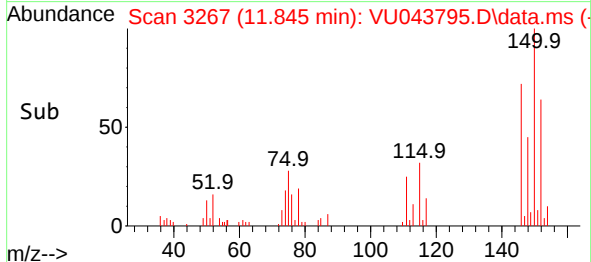
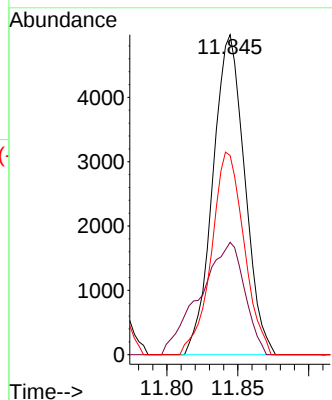
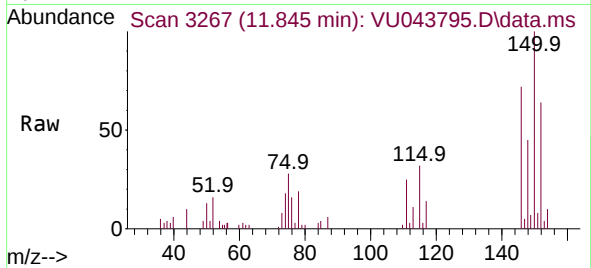




#65
1,4-Dichlorobenzene
Concen: 0.25 ug/L
RT: 11.845 min Scan# 3267
Delta R.T. 0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

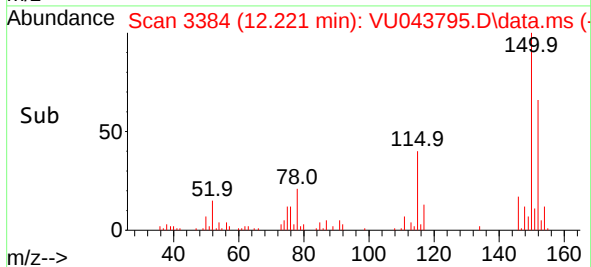
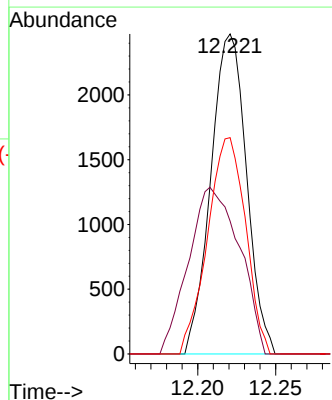
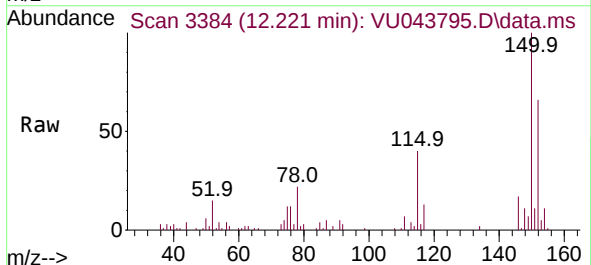
Instrument :
MSVOA_U
ClientSampled :

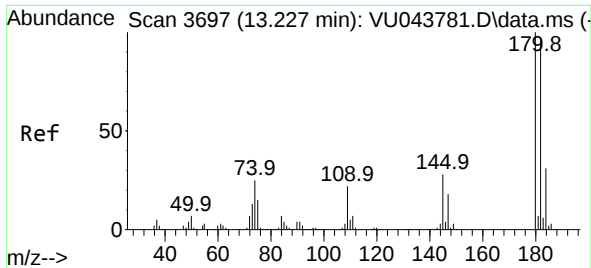
Tgt Ion:146 Resp: 7778
Ion Ratio Lower Upper
146 100
111 35.1 27.0 50.2
148 62.2 45.0 83.6



#67
1,2-Dichlorobenzene
Concen: 0.13 ug/L
RT: 12.221 min Scan# 3384
Delta R.T. 0.003 min
Lab File: VU043795.D
Acq: 17 May 2021 16:36

Tgt Ion:146 Resp: 3936
Ion Ratio Lower Upper
146 100
111 41.5 33.6 50.4
148 67.6 50.2 75.2

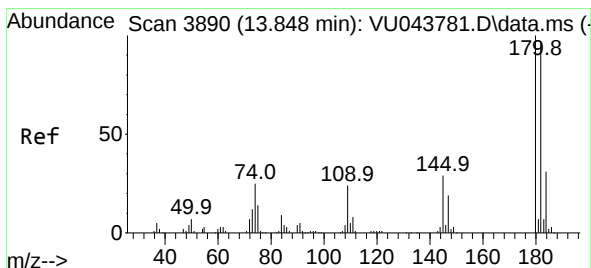
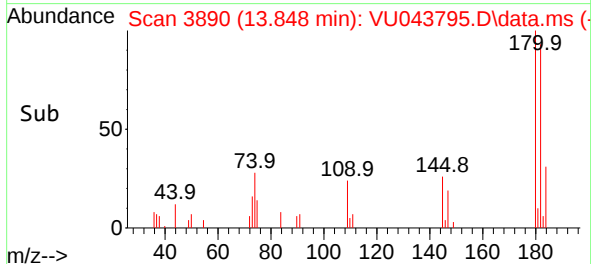
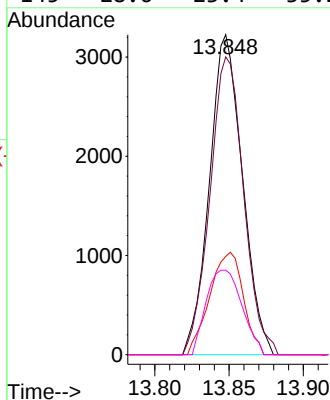
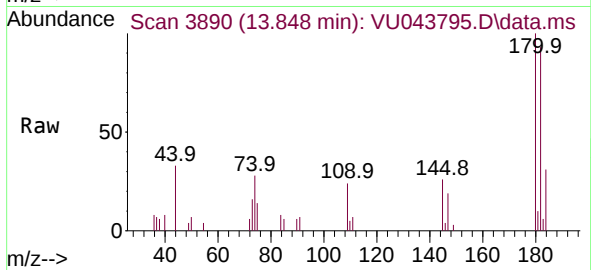




#69
 1,3,5-Trichlorobenzene
 Concen: 0.21 ug/L
 RT: 13.848 min Scan# 3890
 Delta R.T. 0.621 min
 Lab File: VU043795.D
 Acq: 17 May 2021 16:36

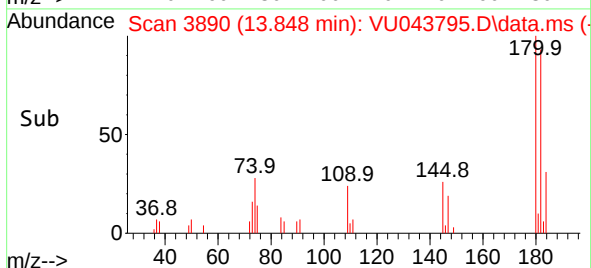
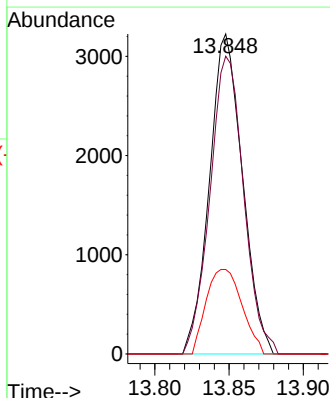
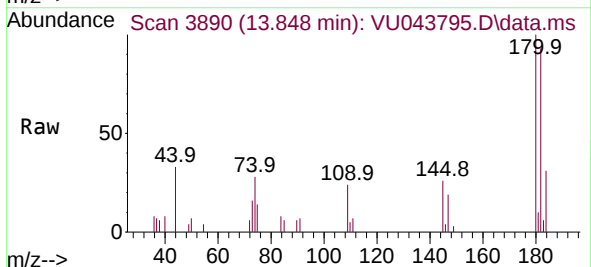
Instrument :
 MSVOA_U
 ClientSampled :

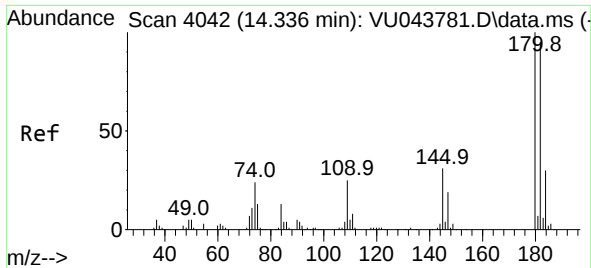
Tgt Ion:	180	Resp:	4991
Ion Ratio	Lower	Upper	
180	100		
182	94.9	78.2	117.2
184	32.6	24.8	37.2
145	28.6	23.4	35.2



#70
 1,2,4-trichlorobenzene
 Concen: 0.25 ug/L
 RT: 13.848 min Scan# 3890
 Delta R.T. -0.000 min
 Lab File: VU043795.D
 Acq: 17 May 2021 16:36

Tgt Ion:	180	Resp:	4991
Ion Ratio	Lower	Upper	
180	100		
182	94.9	76.9	115.3
145	28.6	23.0	34.4





#72
 1,2,3-Trichlorobenzene
 Concen: 0.20 ug/L
 RT: 14.336 min Scan# 4042
 Delta R.T. -0.000 min
 Lab File: VU043795.D
 Acq: 17 May 2021 16:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:180 Resp: 3854
 Ion Ratio Lower Upper
 180 100
 182 101.8 77.0 115.4
 145 31.0 24.6 36.8

