

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100121\
 Data File : VU045077.D
 Acq On : 01 Oct 2021 16:49
 Operator : SY/MD
 Sample : M3993-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 02 03:12:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

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

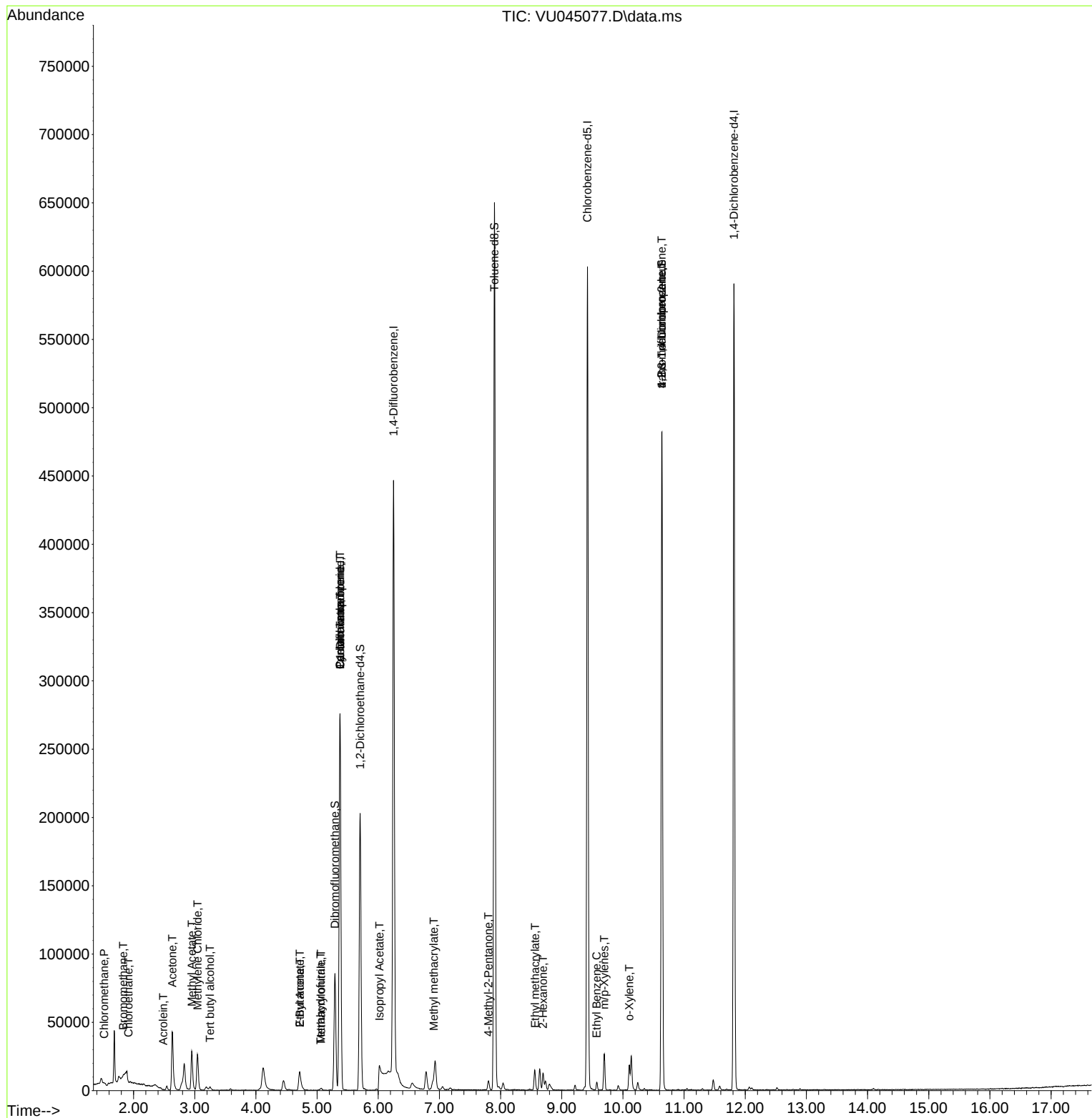
Internal Standards						
1) Pentafluorobenzene	5.375	168	178949	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	329429	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	311052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	141701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	150630	50.567	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 101.140%		
35) Dibromofluoromethane	5.292	113	53781	25.879	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 51.760%#		
50) Toluene-d8	7.899	98	416880	50.770	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 101.540%		
62) 4-Bromofluorobenzene	10.636	95	160639	47.386	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 94.780%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	644	0.224	ug/l	92
5) Bromomethane	1.832	94	246	0.219	ug/l	91
6) Chloroethane	1.916	64	1984	0.901	ug/l #	42
11) Tert butyl alcohol	3.250	59	3222	3.769	ug/l #	86
13) Acrolein	2.488	56	62	3.492	ug/l #	14
16) Acetone	2.633	43	52538	29.713	ug/l	98
18) Methyl Acetate	2.951	43	35022	6.777	ug/l	98
20) Methylene Chloride	3.044	84	12931	4.855	ug/l	93
25) 2-Butanone	4.716	43	24571	9.781	ug/l	99
29) Tetrahydrofuran	5.057	42	300	0.201	ug/l #	55
31) Cyclohexane	5.375	56	5029	1.111	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	17489	5.077	ug/l #	48
37) Ethyl Acetate	4.716	43	24571	5.390	ug/l #	69
38) Carbon Tetrachloride	5.375	117	18815	6.312	ug/l #	16
41) Methacrylonitrile	5.067	41	515	0.219	ug/l #	43
43) Isopropyl Acetate	6.018	43	13645	1.990	ug/l #	62
48) Methyl methacrylate	6.909	41	9705	2.907	ug/l #	20
51) 4-Methyl-2-Pentanone	7.803	43	4809	0.963	ug/l	97
56) Ethyl methacrylate	8.565	69	61	1.832	ug/l #	1
59) 2-Hexanone	8.694	43	6361	1.565	ug/l	69
67) Ethyl Benzene	9.571	91	4282	0.357	ug/l	94
68) m/p-Xylenes	9.697	106	7557	1.621	ug/l	100
69) o-Xylene	10.105	106	5110	1.104	ug/l	93
76) 1,2,3-Trichloropropane	10.636	75	87151	21.086	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.636	75	87151	58.517	ug/l #	9

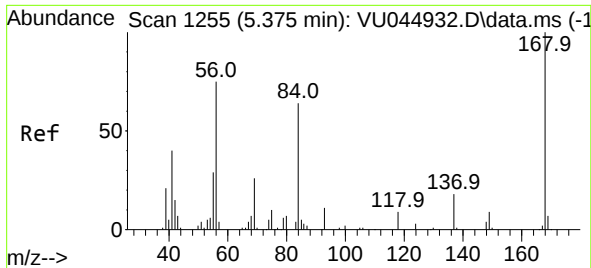
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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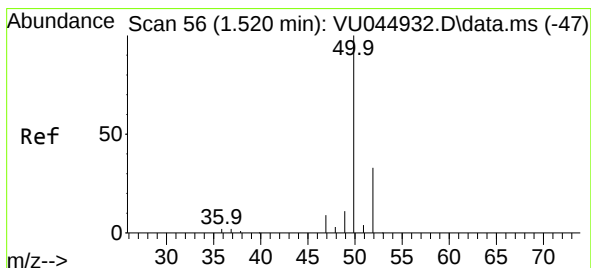
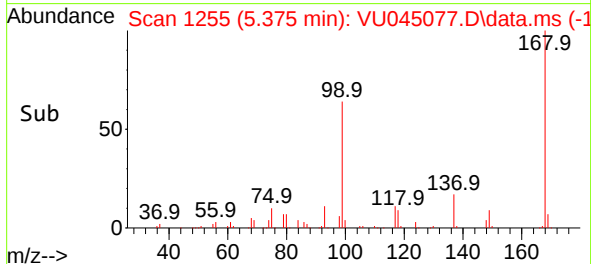
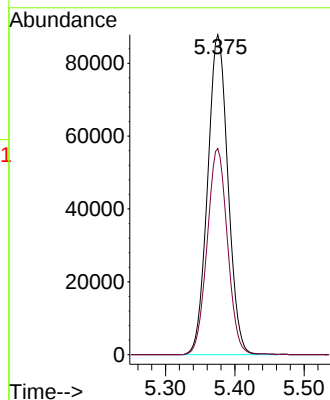
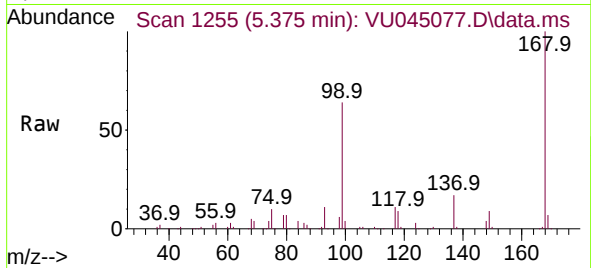




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

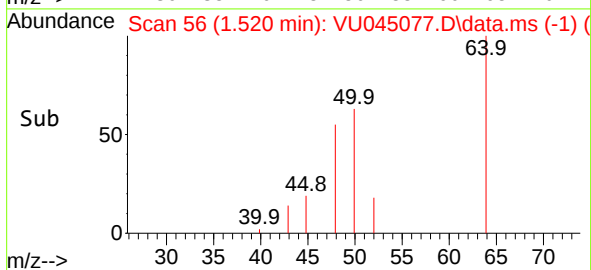
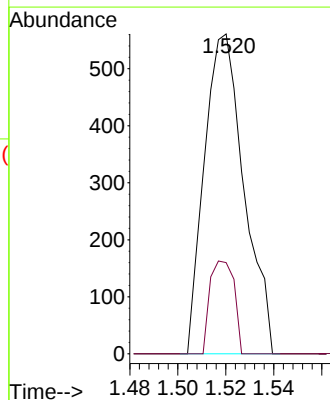
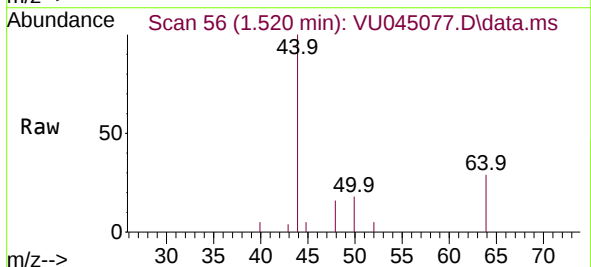
Instrument :
MSVOA_U
ClientSampleId :

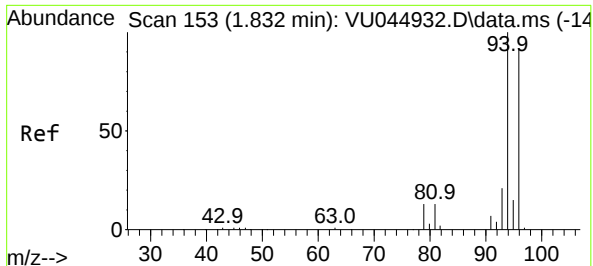
Tgt Ion:168 Resp: 178949
Ion Ratio Lower Upper
168 100
99 64.4 51.4 77.0



#3
Chloromethane
Concen: 0.224 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 50 Resp: 644
Ion Ratio Lower Upper
50 100
52 28.5 26.3 39.5

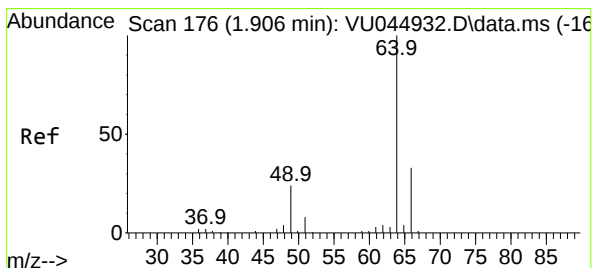
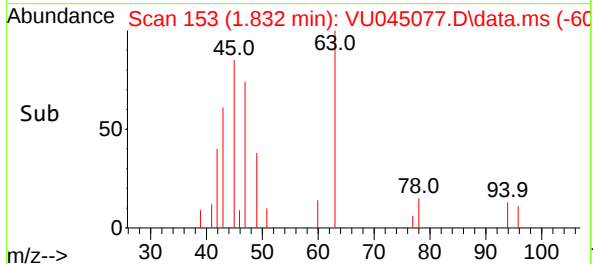
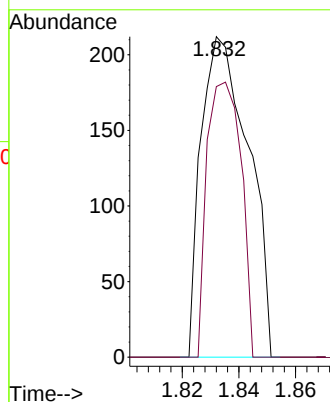
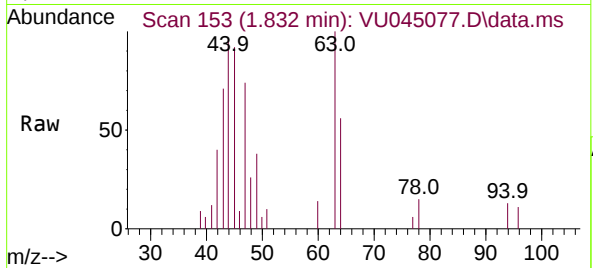




#5
Bromomethane
Concen: 0.219 ug/l
RT: 1.832 min Scan# 153
Delta R.T. 0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

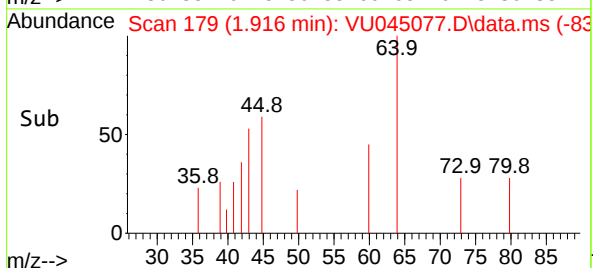
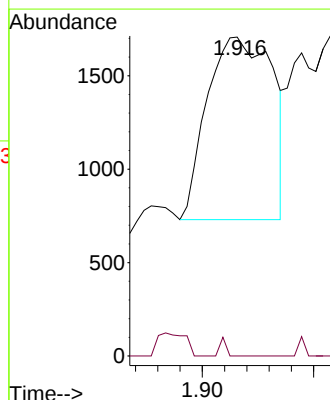
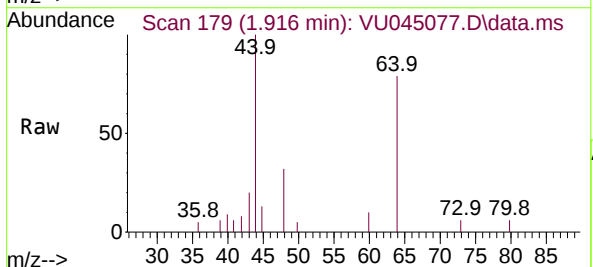
Instrument :
MSVOA_U
ClientSampled :

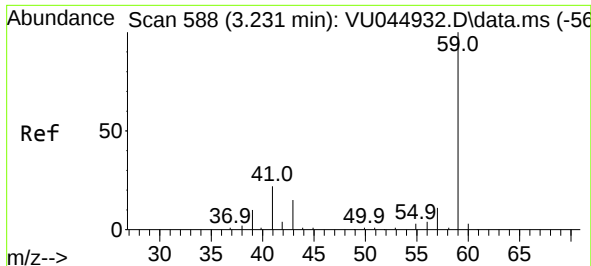
Tgt Ion: 94 Resp: 246
Ion Ratio Lower Upper
94 100
96 84.4 74.5 111.7



#6
Chloroethane
Concen: 0.901 ug/l
RT: 1.916 min Scan# 179
Delta R.T. 0.010 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 64 Resp: 1984
Ion Ratio Lower Upper
64 100
66 0.0 25.8 38.8#

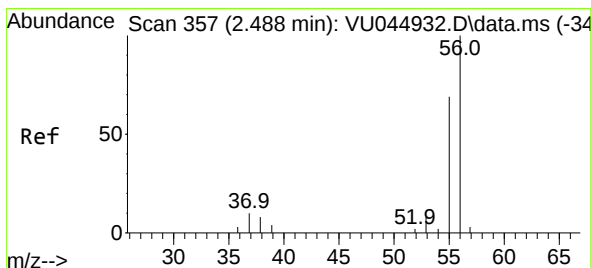
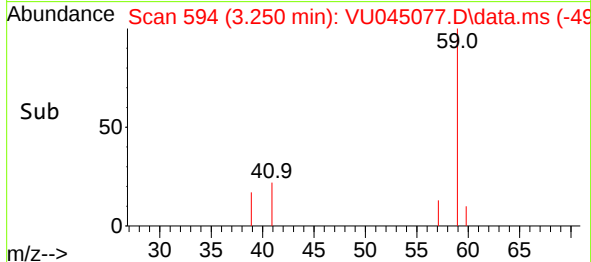
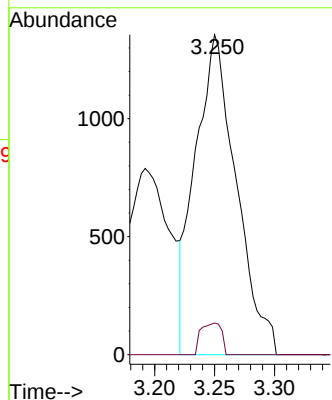
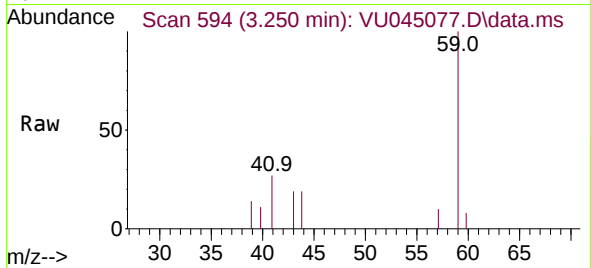




#11
Tert butyl alcohol
Concen: 3.769 ug/l
RT: 3.250 min Scan# 594
Delta R.T. 0.019 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

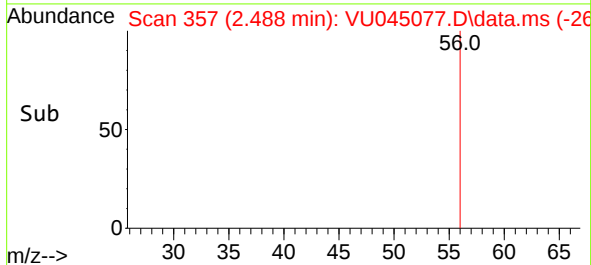
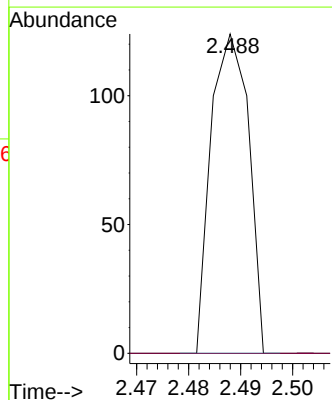
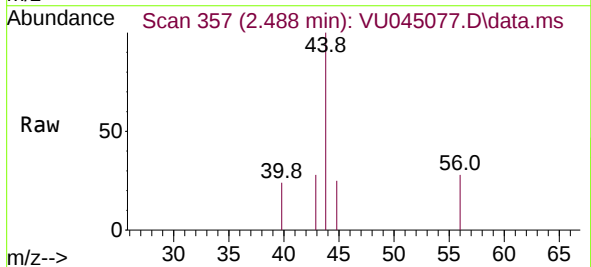
Instrument :
MSVOA_U
ClientSampled :

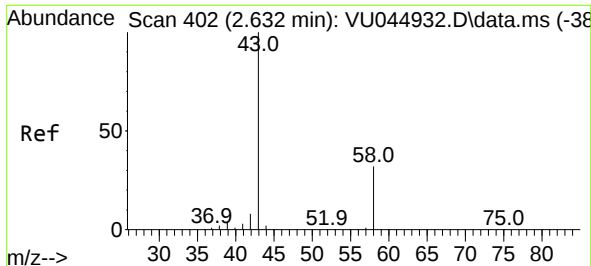
Tgt Ion: 59 Resp: 3222
Ion Ratio Lower Upper
59 100
57 5.0 8.3 12.5#



#13
Acrolein
Concen: 3.492 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#

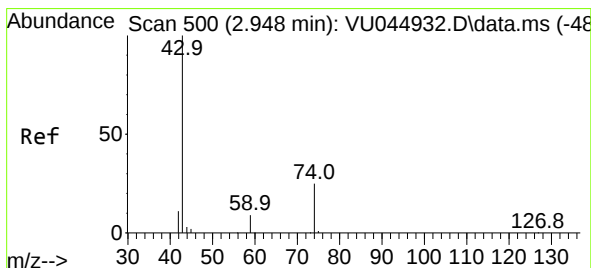
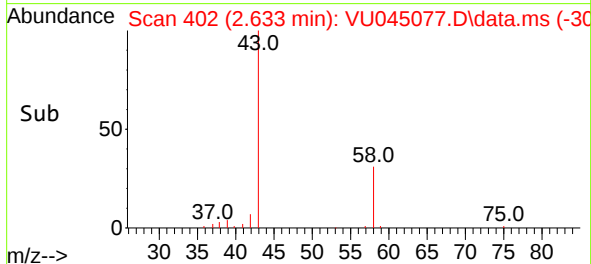
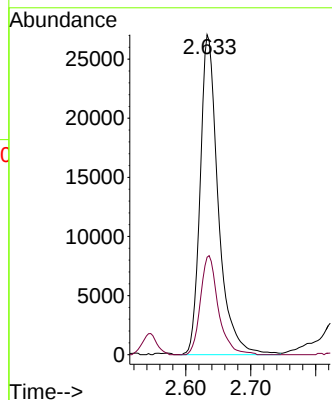
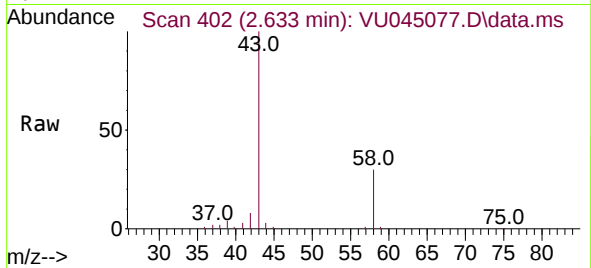




#16
Acetone
Concen: 29.713 ug/l
RT: 2.633 min Scan# 402
Delta R.T. 0.001 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

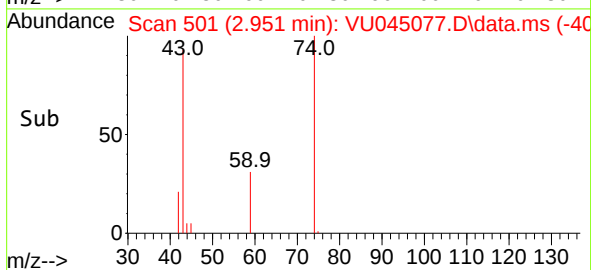
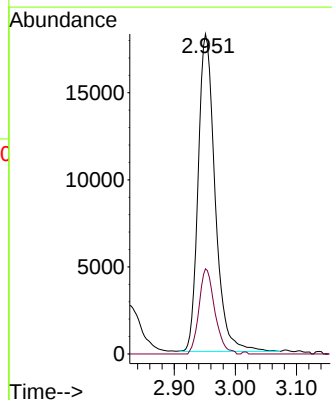
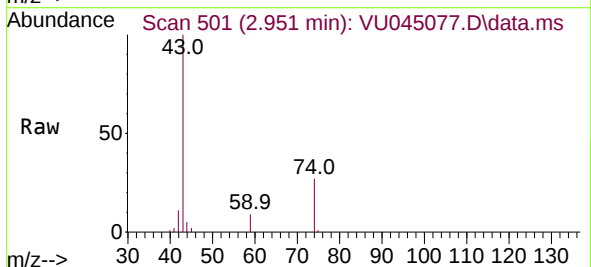
Instrument :
MSVOA_U
ClientSampled :

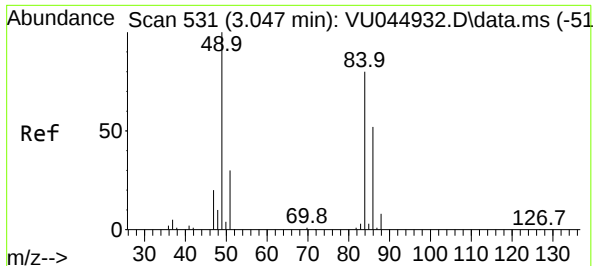
Tgt Ion: 43 Resp: 52538
Ion Ratio Lower Upper
43 100
58 30.5 25.2 37.8



#18
Methyl Acetate
Concen: 6.777 ug/l
RT: 2.951 min Scan# 501
Delta R.T. 0.003 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 43 Resp: 35022
Ion Ratio Lower Upper
43 100
74 25.0 19.0 28.6





#20

Methylene Chloride

Concen: 4.855 ug/l

RT: 3.044 min Scan# 530

Delta R.T. -0.003 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion: 84 Resp: 12931

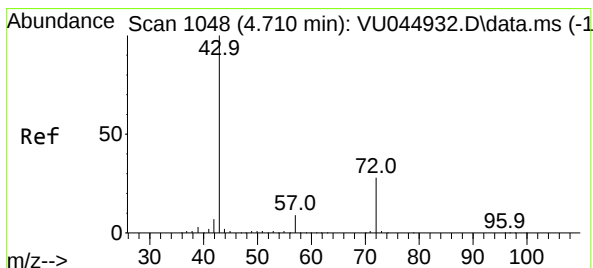
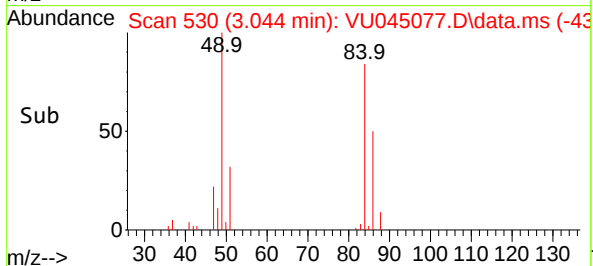
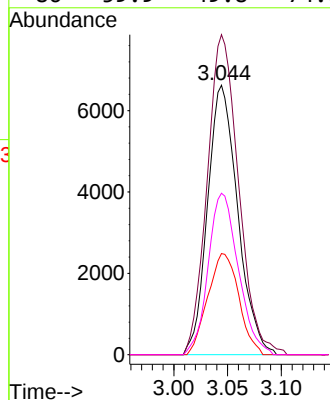
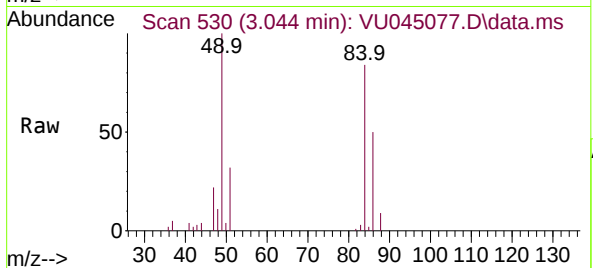
Ion Ratio Lower Upper

84 100

49 118.7 104.9 157.3

51 37.5 31.8 47.8

86 59.9 49.8 74.6



#25

2-Butanone

Concen: 9.781 ug/l

RT: 4.716 min Scan# 1050

Delta R.T. 0.006 min

Lab File: VU045077.D

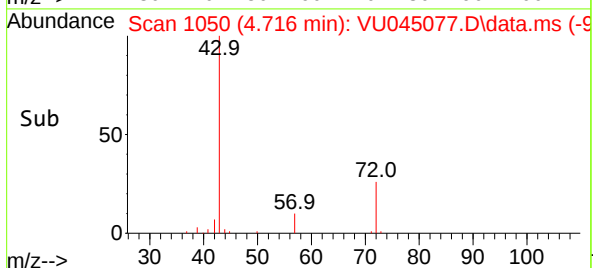
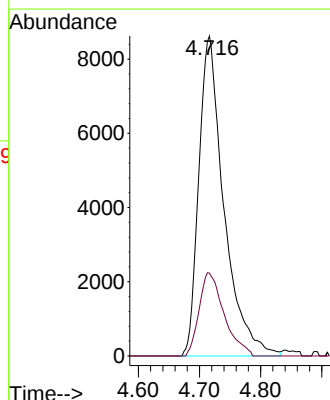
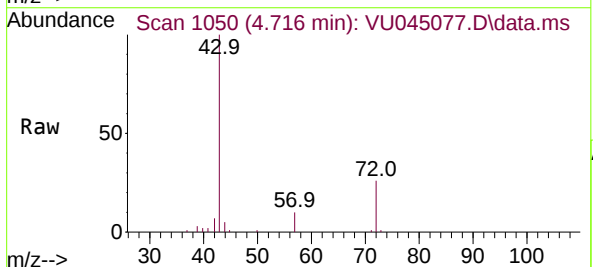
Acq: 01 Oct 2021 16:49

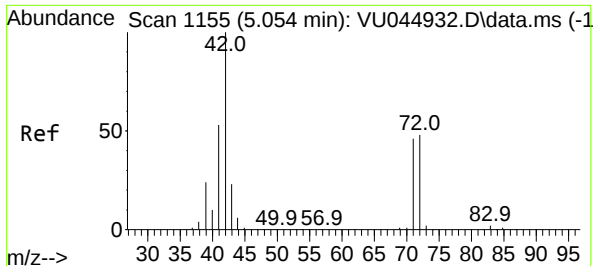
Tgt Ion: 43 Resp: 24571

Ion Ratio Lower Upper

43 100

72 25.9 21.3 31.9





#29

Tetrahydrofuran

Concen: 0.201 ug/l

RT: 5.057 min Scan# 1156

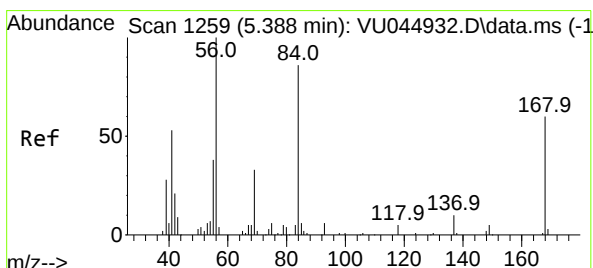
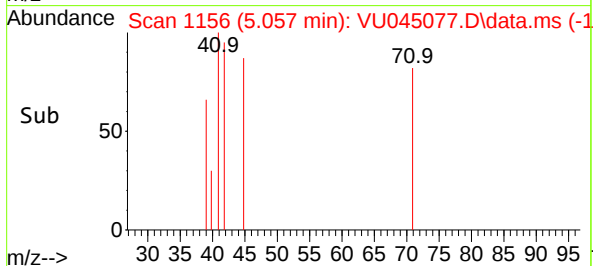
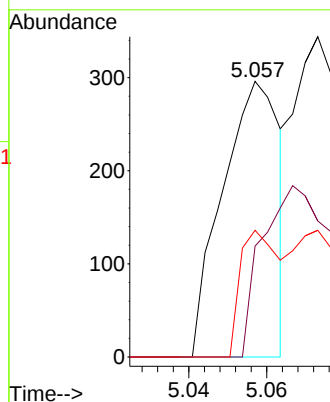
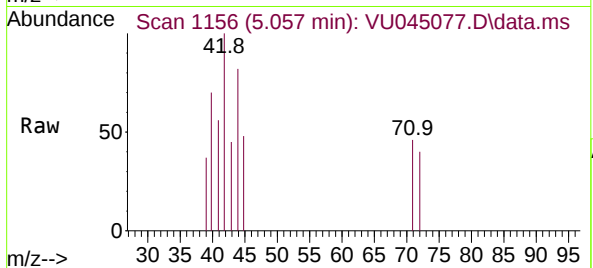
Delta R.T. 0.003 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion:	42	Resp:	300
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	30.7	34.1	51.1#

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#31

Cyclohexane

Concen: 1.111 ug/l

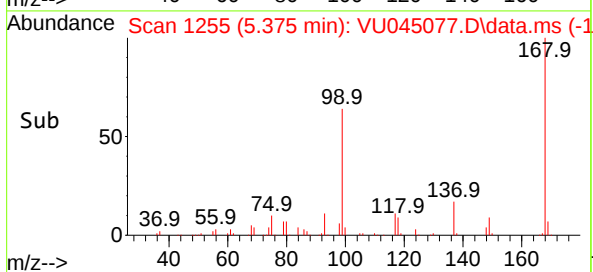
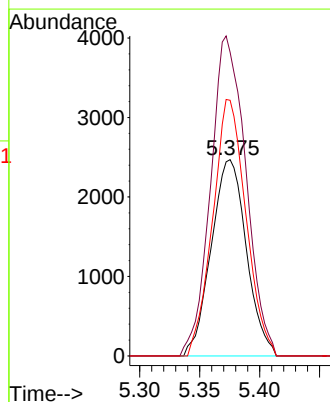
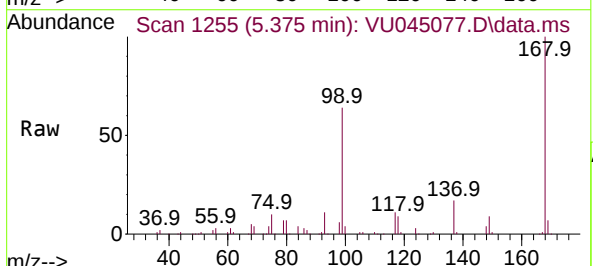
RT: 5.375 min Scan# 1255

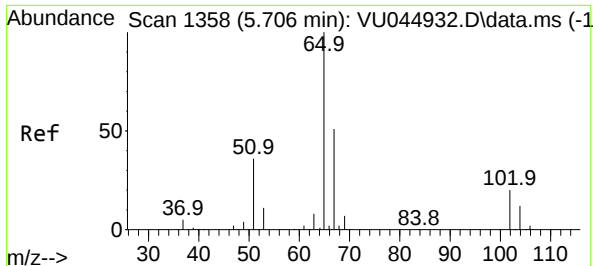
Delta R.T. -0.013 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion:	56	Resp:	5029
Ion	Ratio	Lower	Upper
56	100		
69	154.7	25.2	37.8#
84	130.3	66.4	99.6#



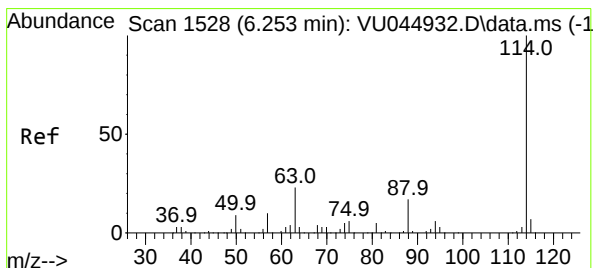
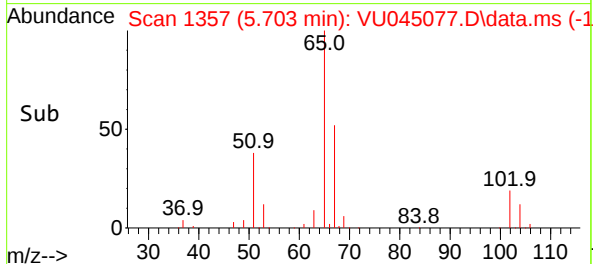
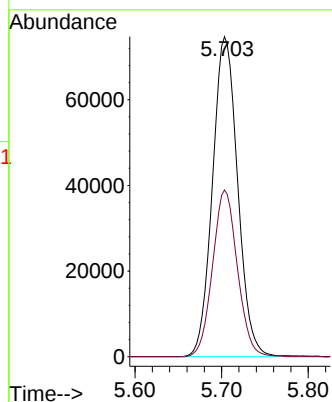
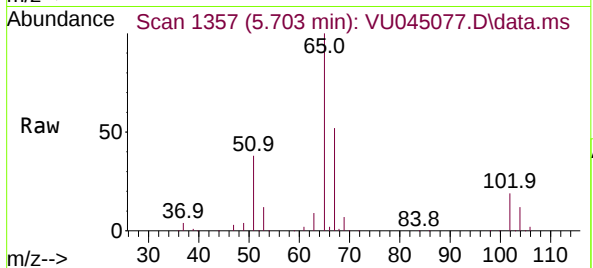


#33

1,2-Dichloroethane-d4
Concen: 50.567 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Instrument :
MSVOA_U
ClientSampleId :

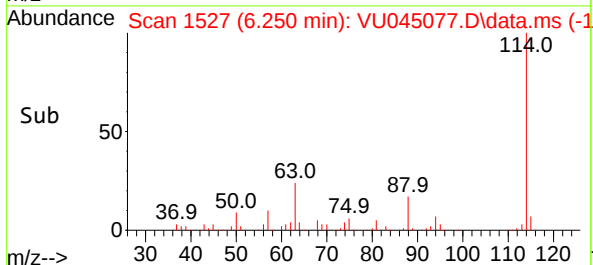
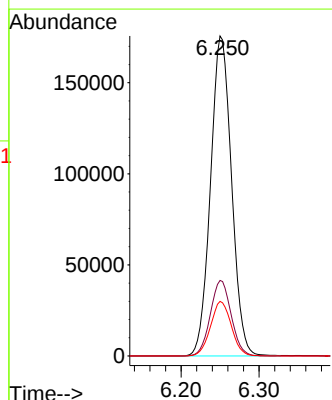
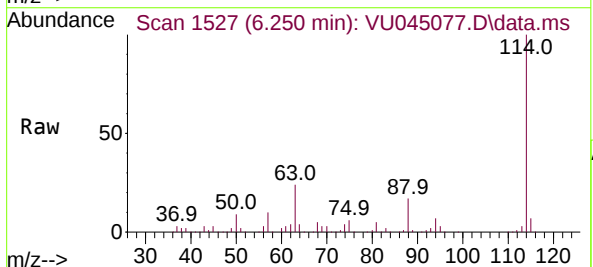
Tgt Ion: 65 Resp: 150630
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.8

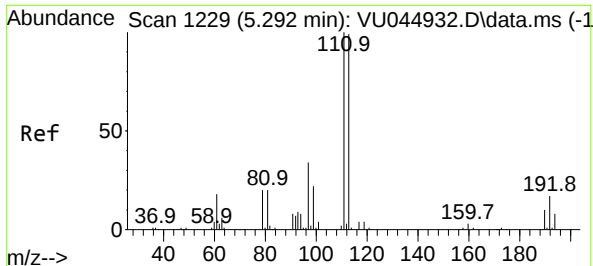


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.250 min Scan# 1527
Delta R.T. -0.003 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 114 Resp: 329429
Ion Ratio Lower Upper
114 100
63 23.6 0.0 47.8
88 17.0 0.0 32.8

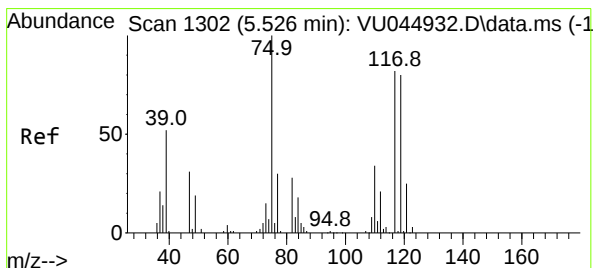
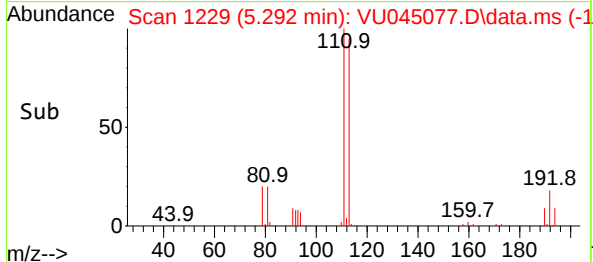
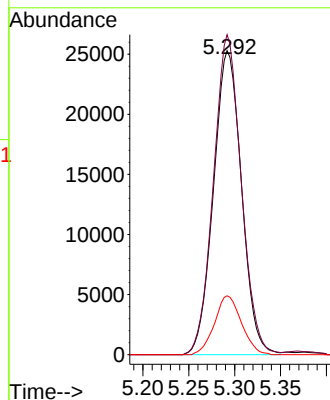
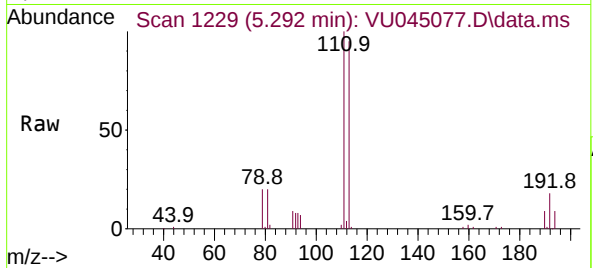




#35
Dibromofluoromethane
Concen: 25.879 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

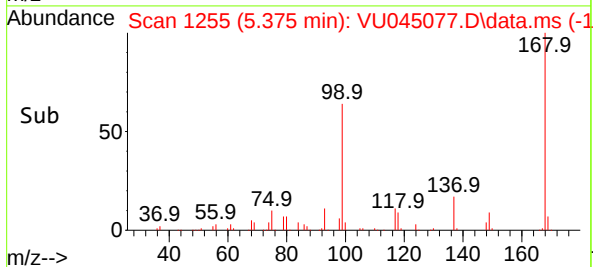
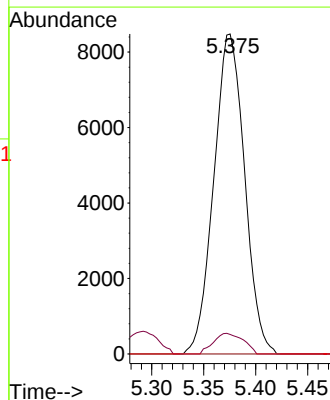
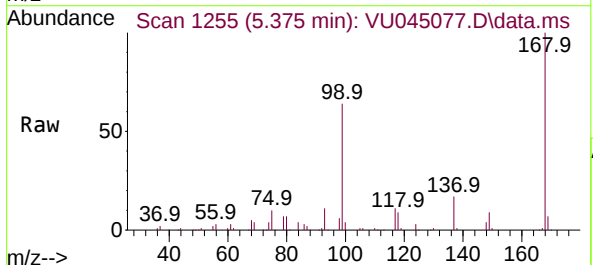
Instrument :
MSVOA_U
ClientSampleId :

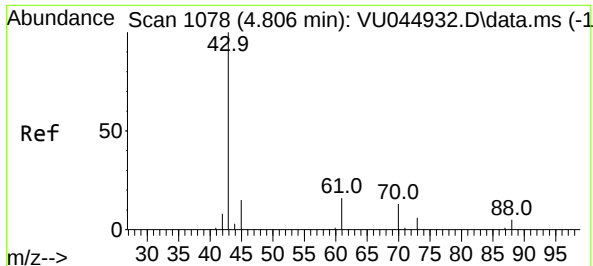
Tgt Ion:113 Resp: 53781
Ion Ratio Lower Upper
113 100
111 104.2 84.1 126.1
192 18.6 14.8 22.2



#36
1,1-Dichloropropene
Concen: 5.077 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 75 Resp: 17489
Ion Ratio Lower Upper
75 100
110 6.3 16.3 48.9#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 5.390 ug/l

RT: 4.716 min Scan# 1050

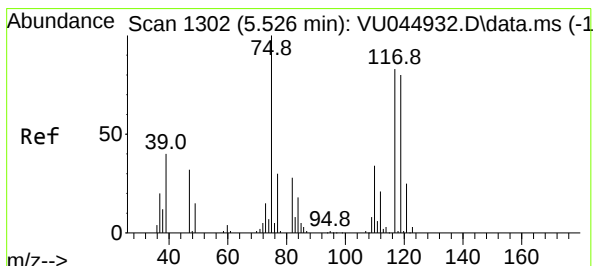
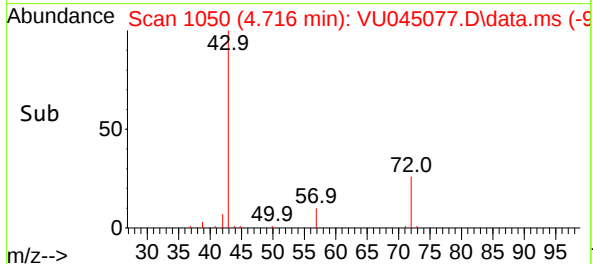
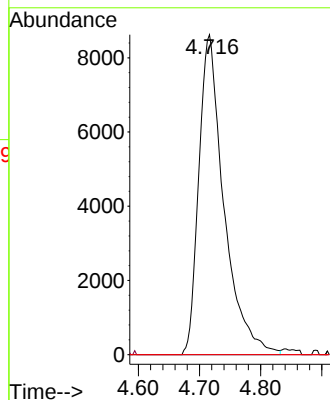
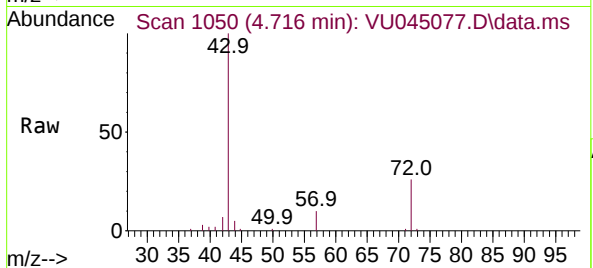
Delta R.T. -0.090 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion:	43	Resp:	24571
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	8.2	12.4#

Instrument :
MSVOA_U
ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.312 ug/l

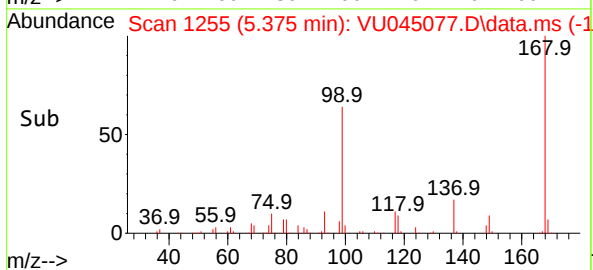
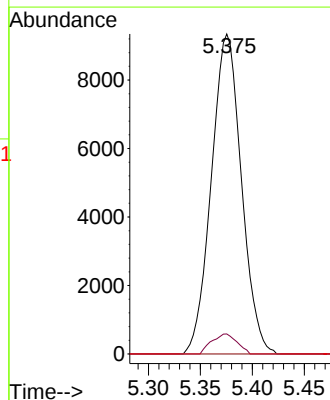
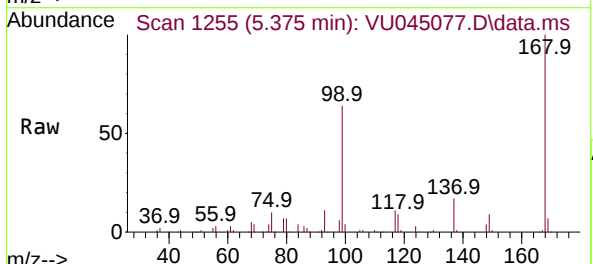
RT: 5.375 min Scan# 1255

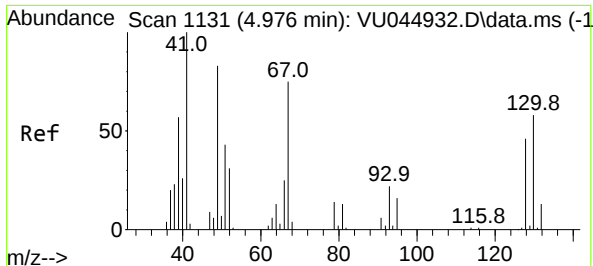
Delta R.T. -0.151 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion:	117	Resp:	18815
Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.4	116.2#
121	0.0	24.5	36.7#

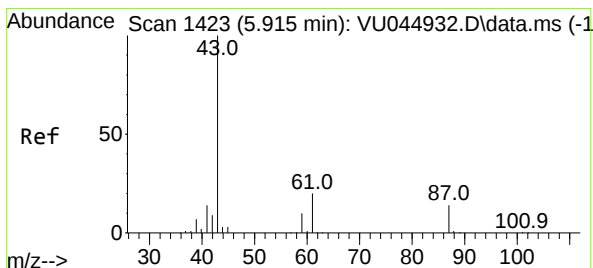
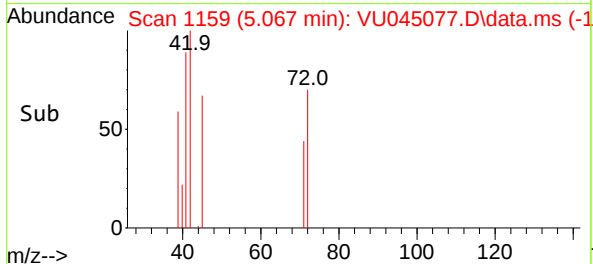
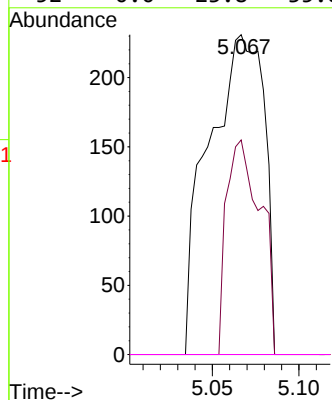
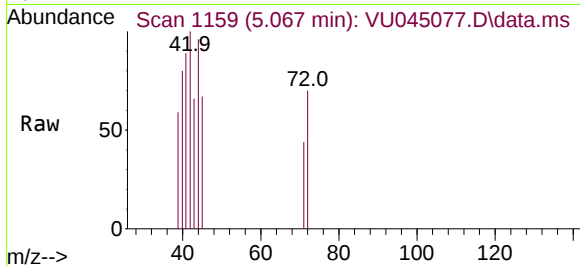




#41
Methacrylonitrile
Concen: 0.219 ug/l
RT: 5.067 min Scan# 1159
Delta R.T. 0.091 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

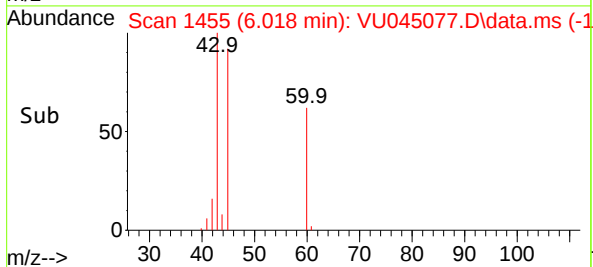
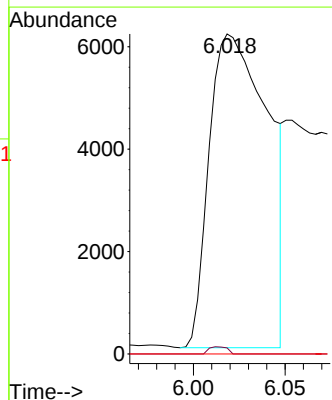
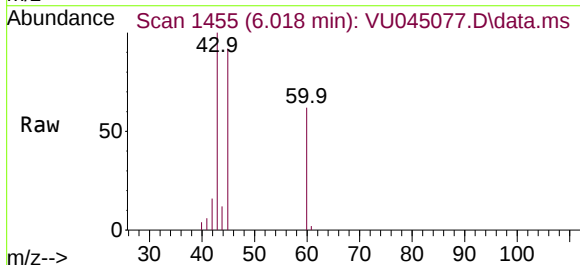
Instrument :
MSVOA_U
ClientSampleId :

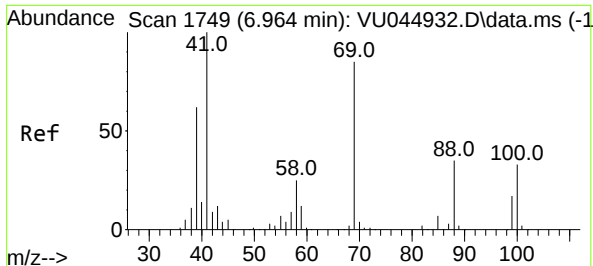
Tgt Ion:	41	Resp:	515
Ion	Ratio	Lower	Upper
41	100		
39	41.2	44.4	66.6#
67	0.0	58.1	87.1#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 1.990 ug/l
RT: 6.018 min Scan# 1455
Delta R.T. 0.103 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion:	43	Resp:	13645
Ion	Ratio	Lower	Upper
43	100		
61	0.7	16.1	24.1#
87	0.0	10.3	15.5#





#48

Methyl methacrylate

Concen: 2.907 ug/l

RT: 6.909 min Scan# 1732

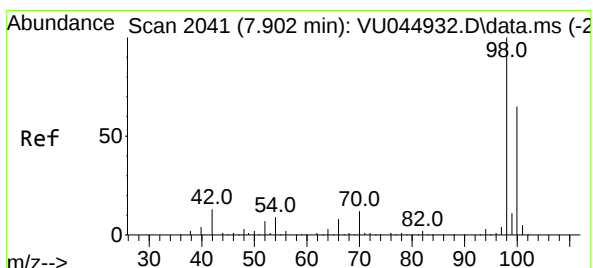
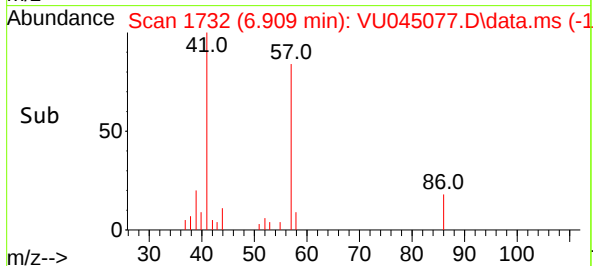
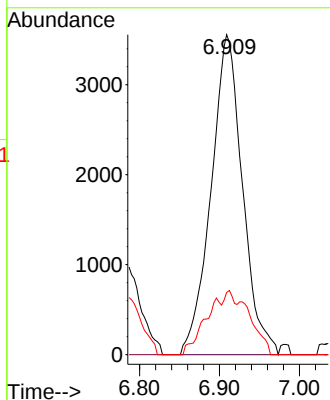
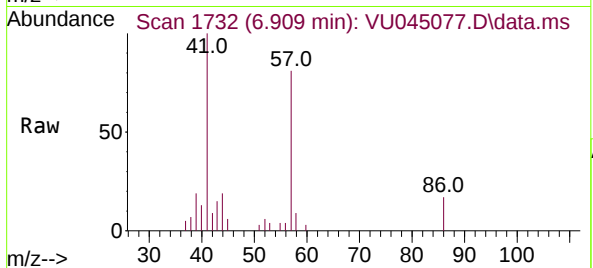
Delta R.T. -0.055 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion:	41	Resp:	9705
Ion	Ratio	Lower	Upper
41	100		
69	0.0	65.6	98.4#
39	10.5	46.2	69.4#

Instrument :
MSVOA_U
ClientSampleId :



#50

Toluene-d8

Concen: 50.770 ug/l

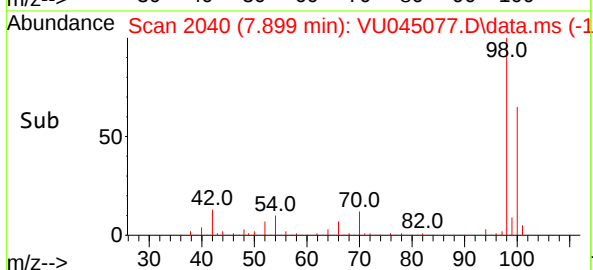
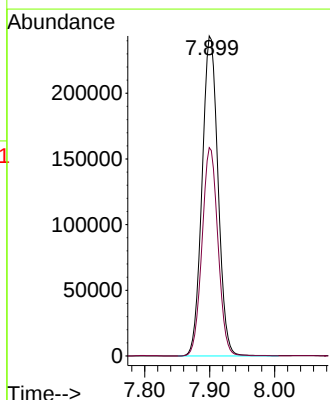
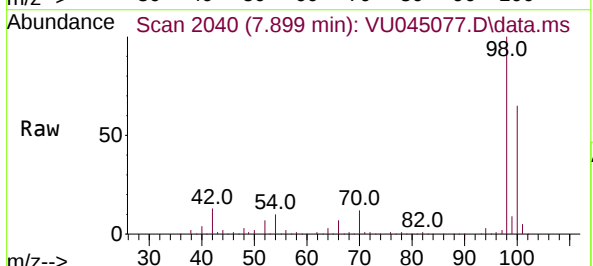
RT: 7.899 min Scan# 2040

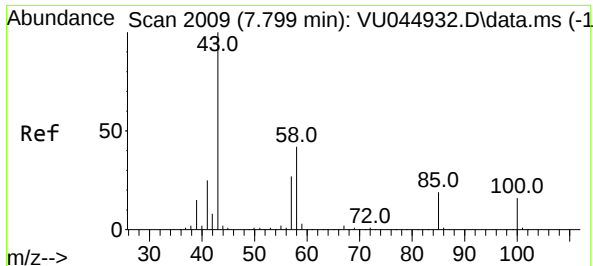
Delta R.T. -0.003 min

Lab File: VU045077.D

Acq: 01 Oct 2021 16:49

Tgt Ion:	98	Resp:	416880
Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.5	78.7

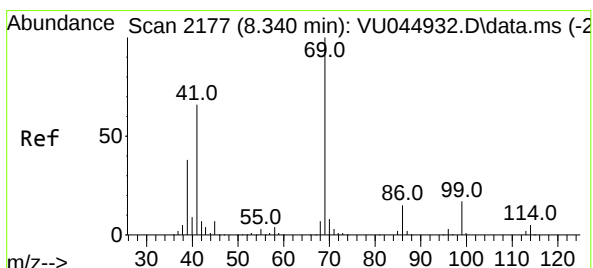
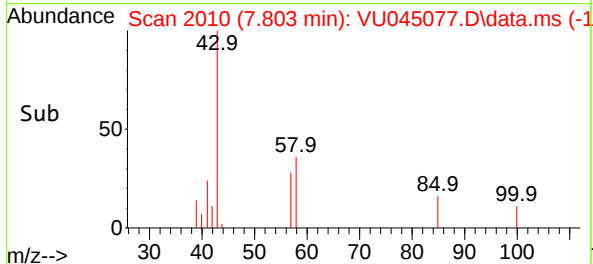
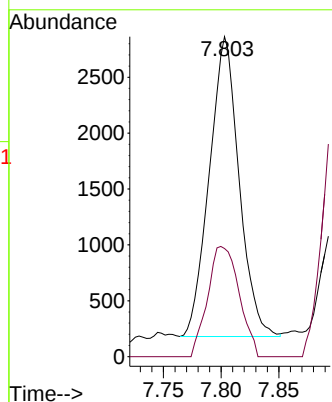
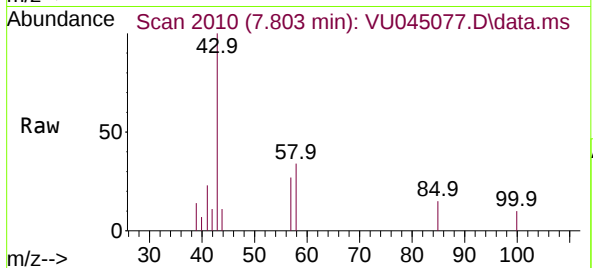




#51
4-Methyl-2-Pentanone
Concen: 0.963 ug/l
RT: 7.803 min Scan# 2010
Delta R.T. 0.004 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

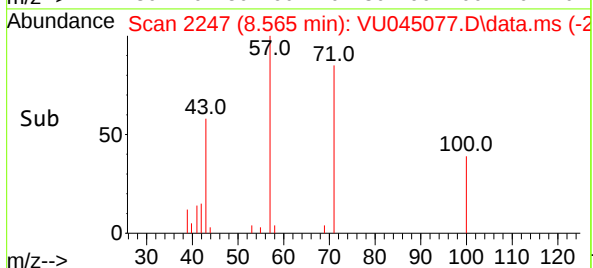
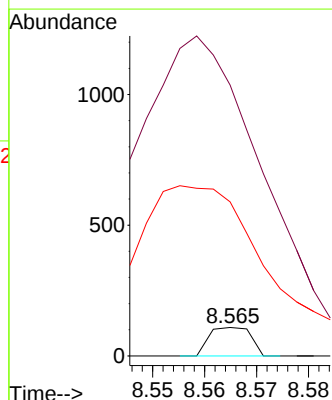
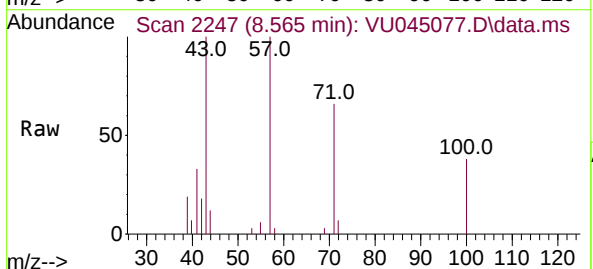
Instrument :
MSVOA_U
ClientSampled :

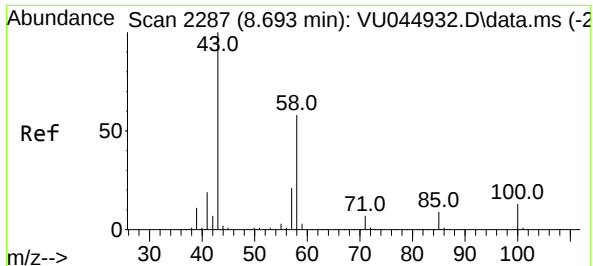
Tgt Ion: 43 Resp: 4809
Ion Ratio Lower Upper
43 100
58 38.8 32.4 48.6



#56
Ethyl methacrylate
Concen: 1.832 ug/l
RT: 8.565 min Scan# 2247
Delta R.T. 0.225 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 69 Resp: 61
Ion Ratio Lower Upper
69 100
41 3827.9 53.5 80.3#
39 1960.7 31.1 46.7#

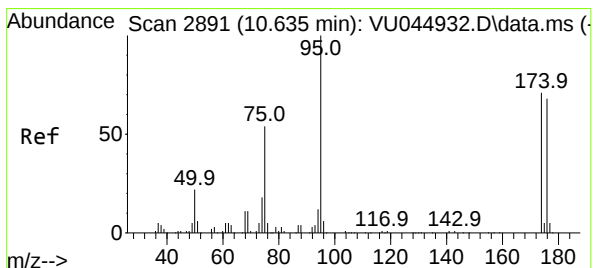
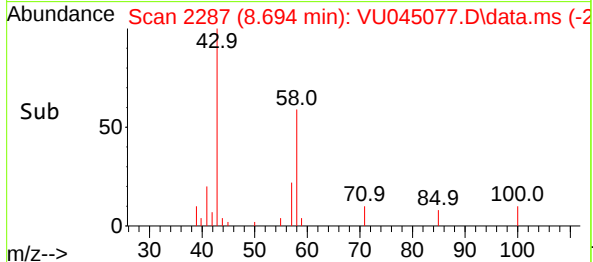
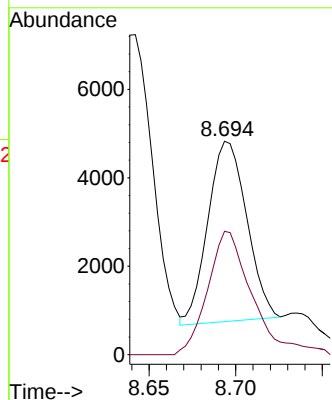
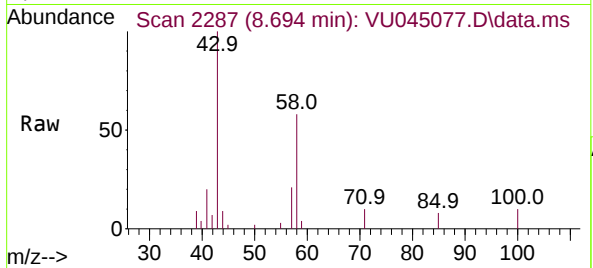




#59
2-Hexanone
Concen: 1.565 ug/l
RT: 8.694 min Scan# 2287
Delta R.T. 0.001 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

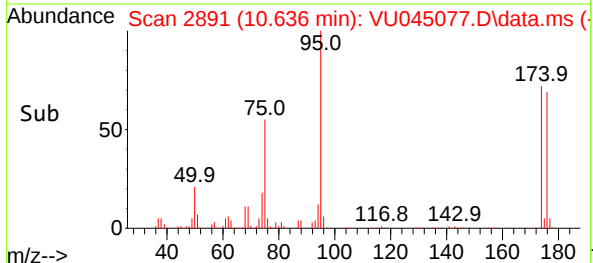
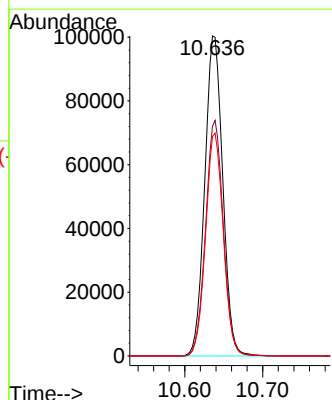
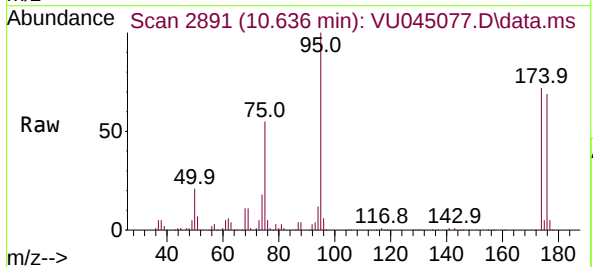
Instrument :
MSVOA_U
ClientSampled :

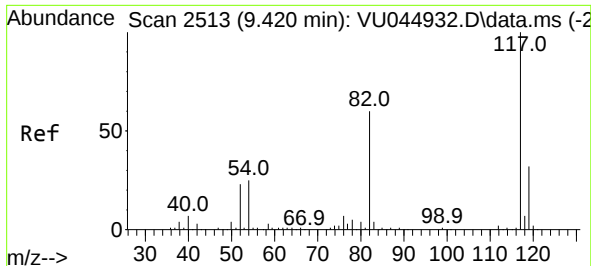
Tgt Ion: 43 Resp: 6361
Ion Ratio Lower Upper
43 100
58 78.4 28.0 84.0



#62
4-Bromofluorobenzene
Concen: 47.386 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.001 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 95 Resp: 160639
Ion Ratio Lower Upper
95 100
174 72.8 0.0 146.6
176 68.8 0.0 141.2

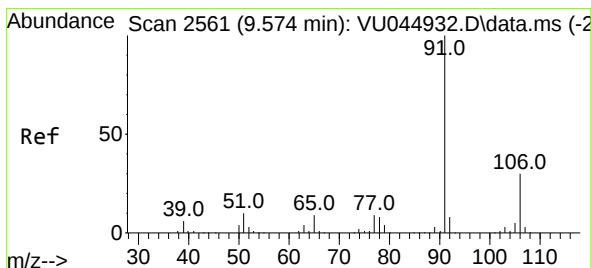
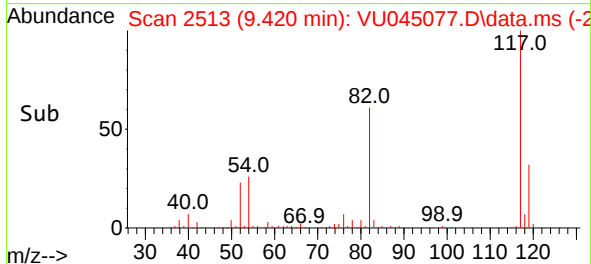
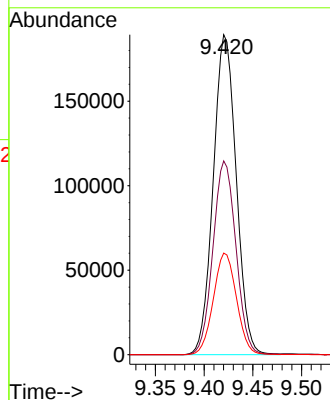
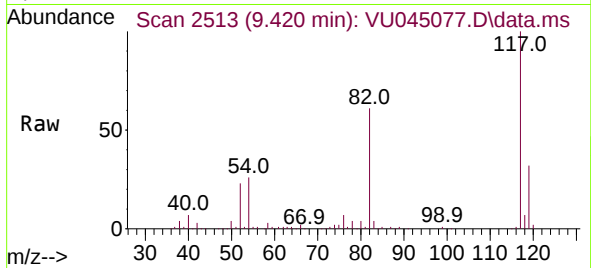




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

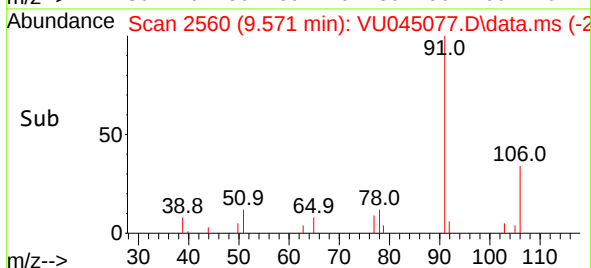
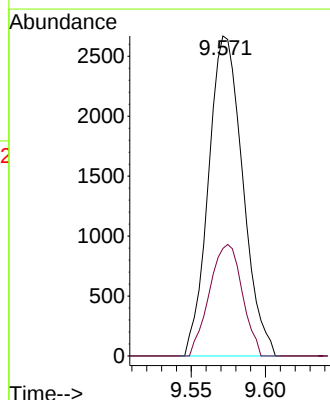
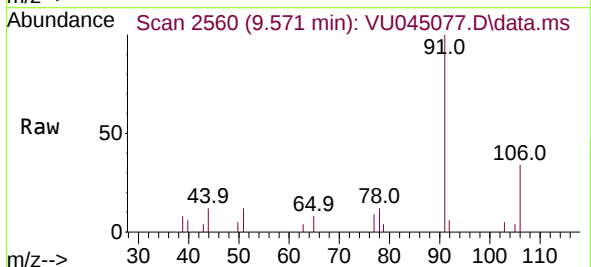
Instrument :
MSVOA_U
ClientSampled :

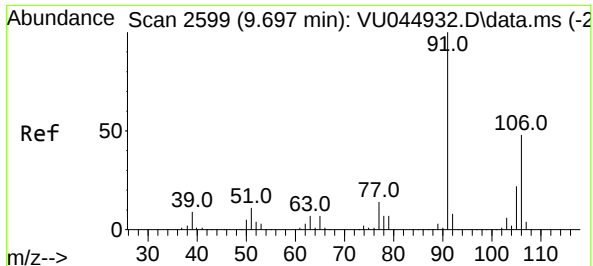
Tgt Ion:117 Resp: 311052
Ion Ratio Lower Upper
117 100
82 60.6 47.8 71.8
119 31.7 25.8 38.6



#67
Ethyl Benzene
Concen: 0.357 ug/l
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion: 91 Resp: 4282
Ion Ratio Lower Upper
91 100
106 33.6 24.3 36.5

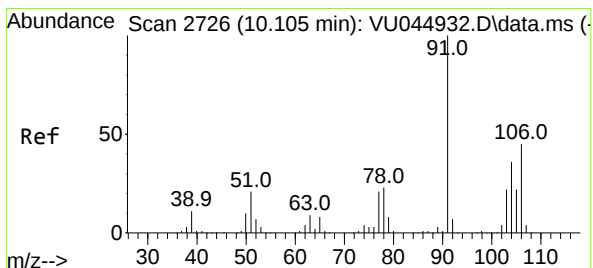
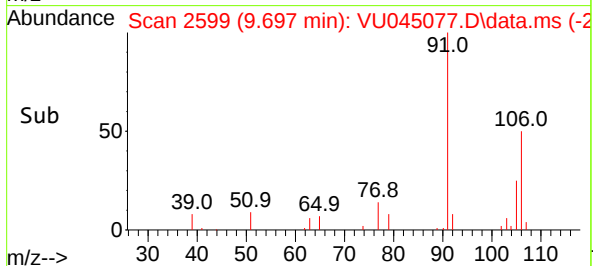
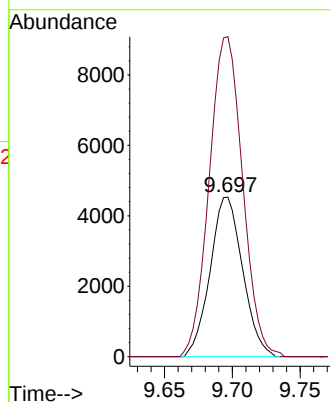
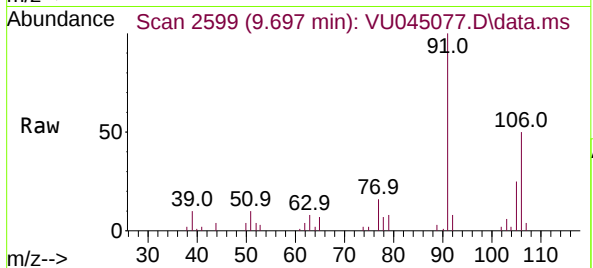




#68
m/p-Xylenes
Concen: 1.621 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

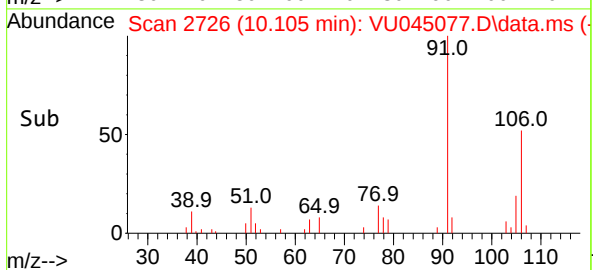
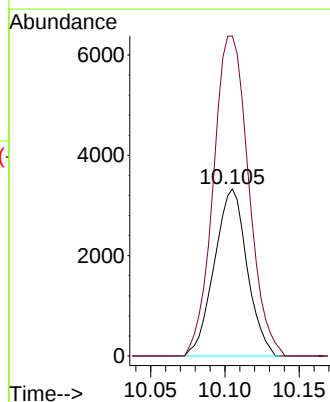
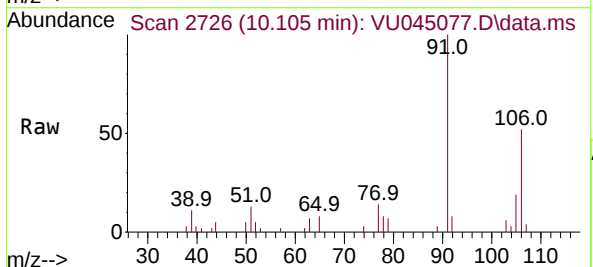
Instrument :
MSVOA_U
ClientSampleId :

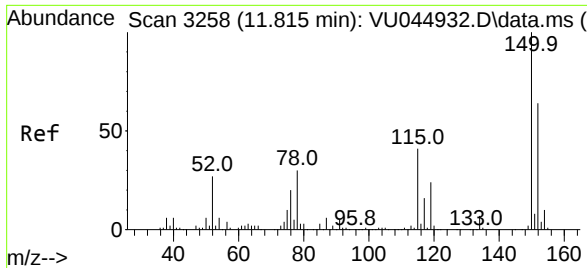
Tgt Ion:106 Resp: 7557
Ion Ratio Lower Upper
106 100
91 205.7 164.2 246.2



#69
o-Xylene
Concen: 1.104 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU045077.D
Acq: 01 Oct 2021 16:49

Tgt Ion:106 Resp: 5110
Ion Ratio Lower Upper
106 100
91 206.0 108.9 326.7

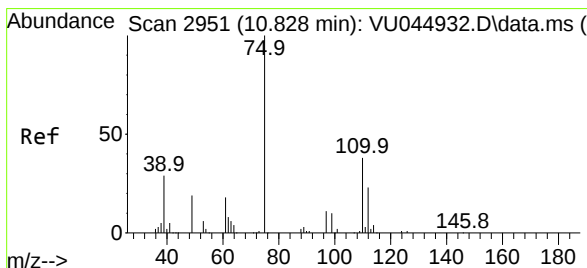
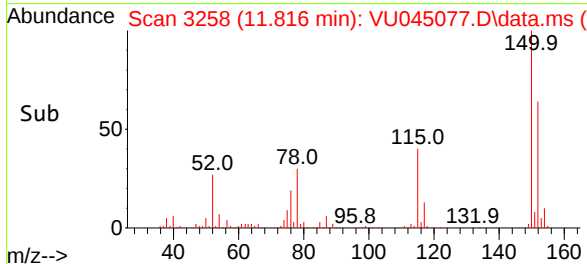
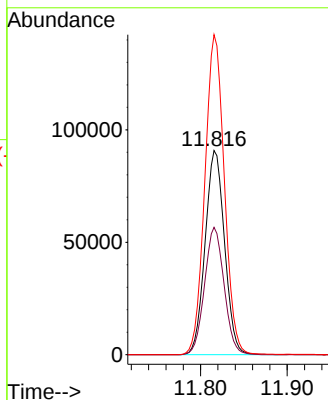
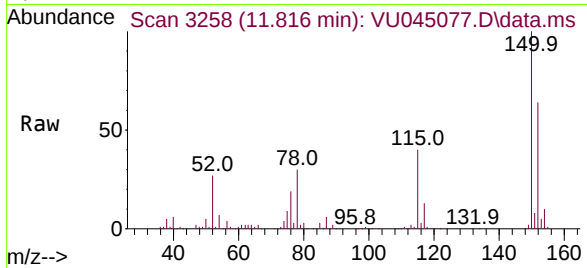




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.816 min Scan# 3258
 Delta R.T. 0.001 min
 Lab File: VU045077.D
 Acq: 01 Oct 2021 16:49

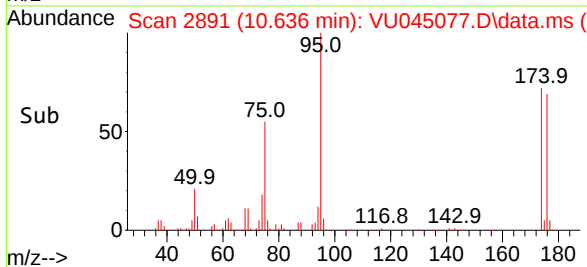
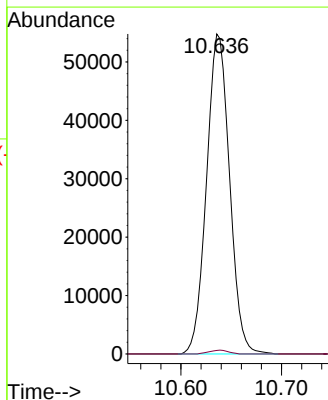
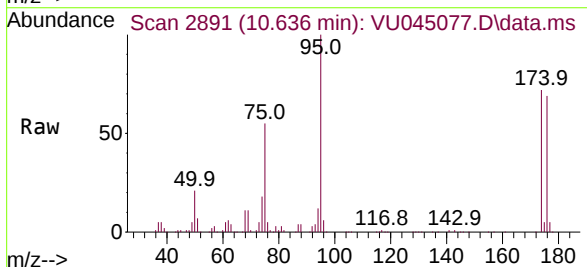
Instrument :
 MSVOA_U
 ClientSampled :

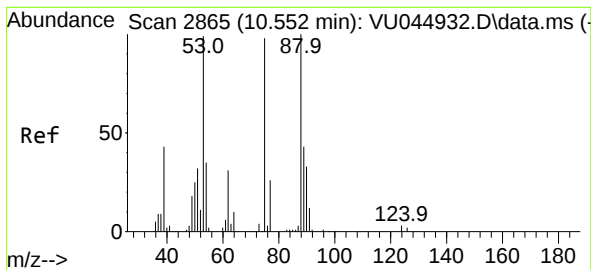
Tgt Ion:152 Resp: 141701
 Ion Ratio Lower Upper
 152 100
 115 62.6 43.5 130.7
 150 157.0 0.0 350.0



#76
 1,2,3-Trichloropropane
 Concen: 21.086 ug/l
 RT: 10.636 min Scan# 2891
 Delta R.T. -0.192 min
 Lab File: VU045077.D
 Acq: 01 Oct 2021 16:49

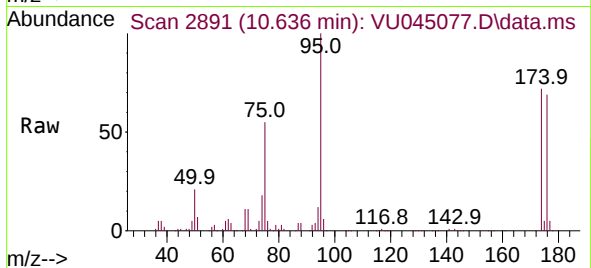
Tgt Ion: 75 Resp: 87151
 Ion Ratio Lower Upper
 75 100
 77 1.0 17.9 53.7#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.517 ug/l
 RT: 10.636 min Scan# 2891
 Delta R.T. 0.084 min
 Lab File: VU045077.D
 Acq: 01 Oct 2021 16:49

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 87151
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.0 123.0#
 89 0.0 34.2 51.4#

