

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102621\
 Data File : VU045405.D
 Acq On : 26 Oct 2021 16:58
 Operator : SY/MD
 Sample : M4360-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 27 04:40:44 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)

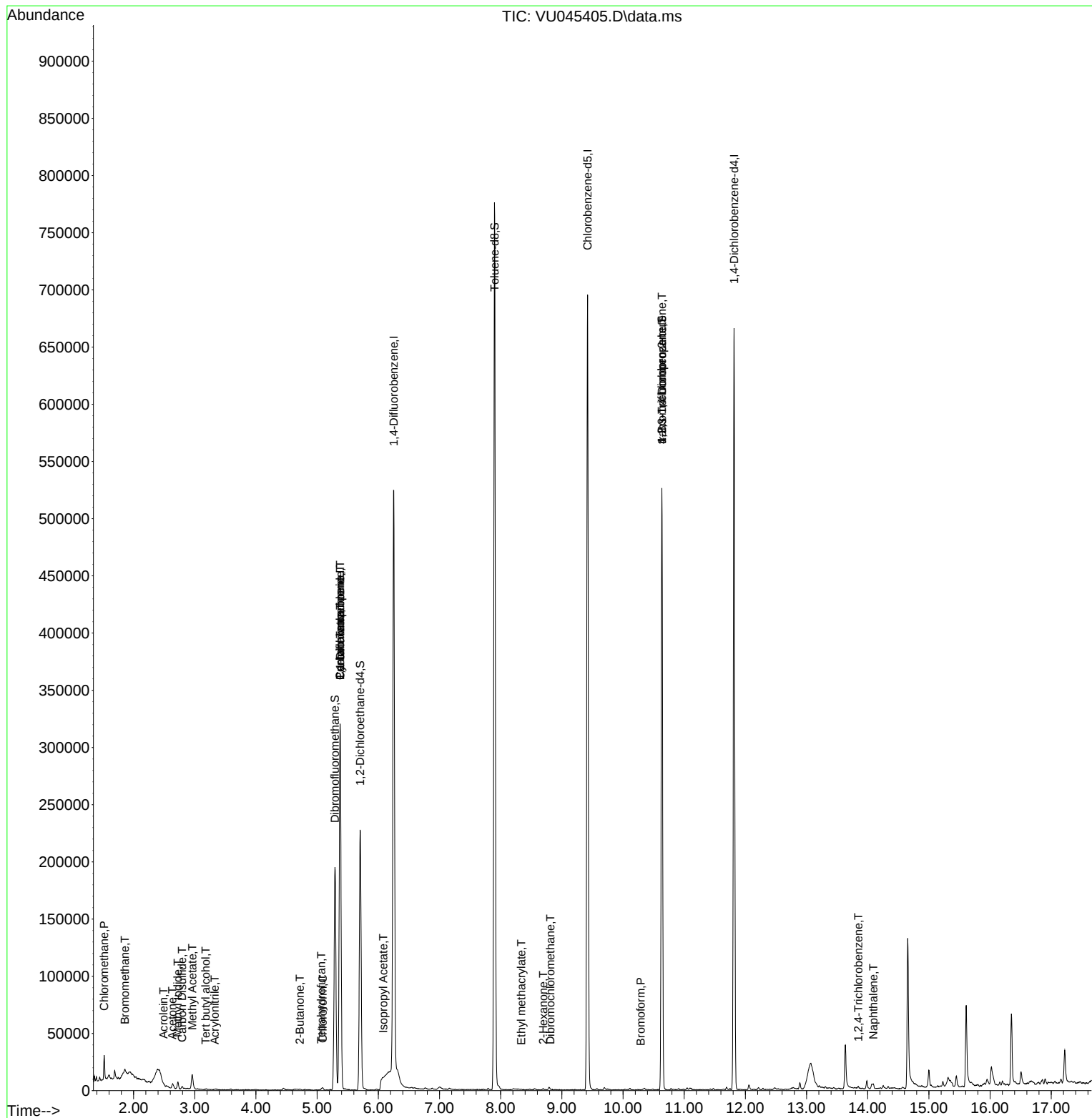
Internal Standards						
1) Pentafluorobenzene	5.375	168	212248	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	401407	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	369549	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	161082	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	170330	48.209	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.420%
35) Dibromofluoromethane	5.292	113	125998	49.758	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.520%
50) Toluene-d8	7.899	98	504380	50.412	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	100.820%
62) 4-Bromofluorobenzene	10.636	95	180143	43.611	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	87.220%
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	13892	4.081	ug/l	100
5) Bromomethane	1.858	94	1402	1.051	ug/l	92
10) Methyl Iodide	2.723	142	6207	2.278	ug/l	93
11) Tert butyl alcohol	3.179	59	502	0.495	ug/l #	72
13) Acrolein	2.488	56	465	5.447	ug/l #	34
15) Acrylonitrile	3.327	53	433	0.212	ug/l #	80
16) Acetone	2.636	43	5267	2.511	ug/l	100
17) Carbon Disulfide	2.793	76	2104	0.283	ug/l #	80
18) Methyl Acetate	2.961	43	17191	2.805	ug/l	99
25) 2-Butanone	4.716	43	1206	0.405	ug/l	99
29) Tetrahydrofuran	5.070	42	557	0.314	ug/l #	38
30) Chloroform	5.092	83	1775	0.323	ug/l	94
31) Cyclohexane	5.375	56	5553	1.035	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	19222	4.579	ug/l #	50
38) Carbon Tetrachloride	5.375	117	21982	6.052	ug/l #	16
43) Isopropyl Acetate	6.079	43	11575	1.385	ug/l #	61
49) 1,4-Dioxane	7.005	88	2454	Below Cal	#	88
56) Ethyl methacrylate	8.340	69	45	1.828	ug/l #	1
59) 2-Hexanone	8.697	43	996	0.201	ug/l	82
60) Dibromochloromethane	8.812	129	239	2.242	ug/l	99
71) Bromoform	10.288	173	44	1.135	ug/l #	28
76) 1,2,3-Trichloropropane	10.636	75	93650	19.932	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.636	75	93650	55.315	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.844	180	671	0.212	ug/l	88
95) Naphthalene	14.092	128	3165	0.266	ug/l #	94

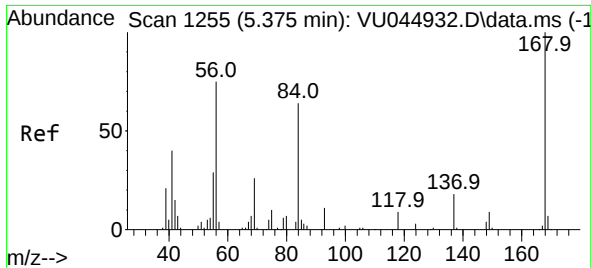
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

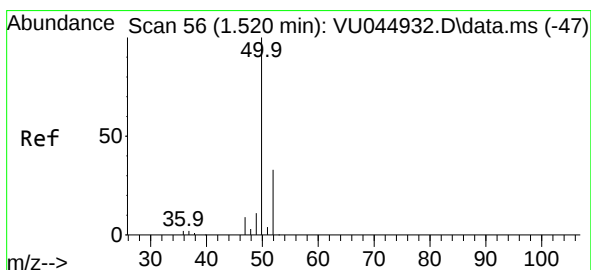
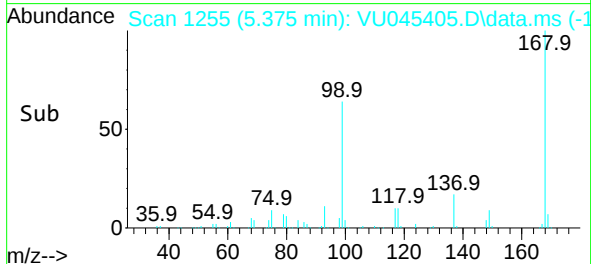
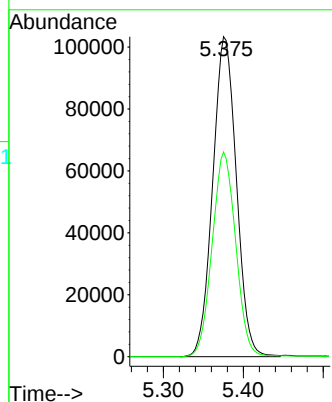
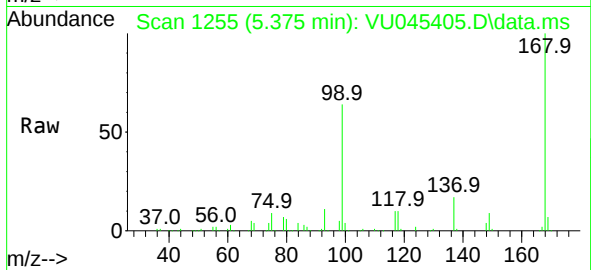




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

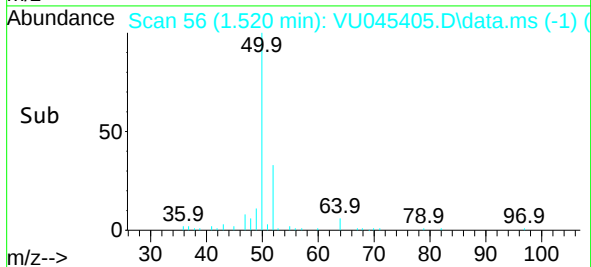
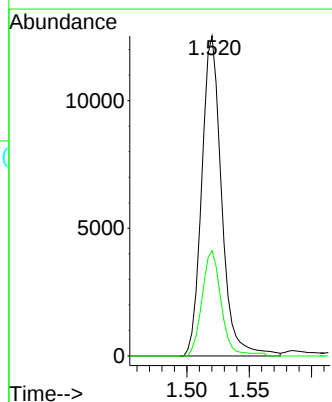
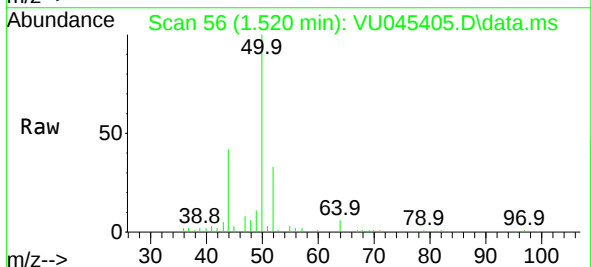
Instrument :
MSVOA_U
ClientSampleId :

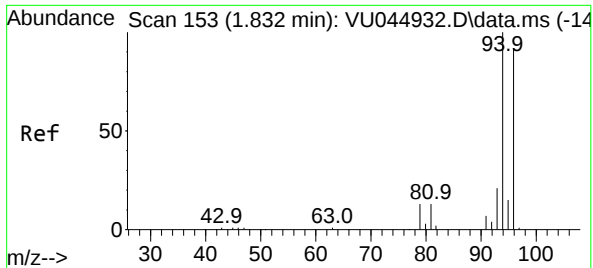
Tgt Ion:168 Resp: 212248
Ion Ratio Lower Upper
168 100
99 63.9 51.4 77.0



#3
Chloromethane
Concen: 4.081 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

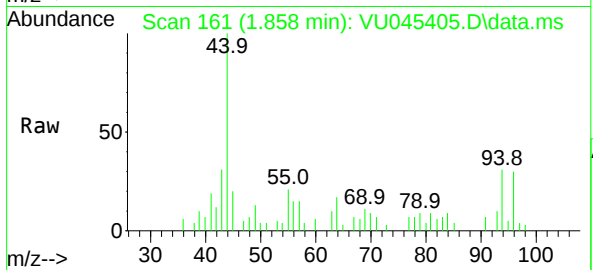
Tgt Ion: 50 Resp: 13892
Ion Ratio Lower Upper
50 100
52 32.9 26.3 39.5



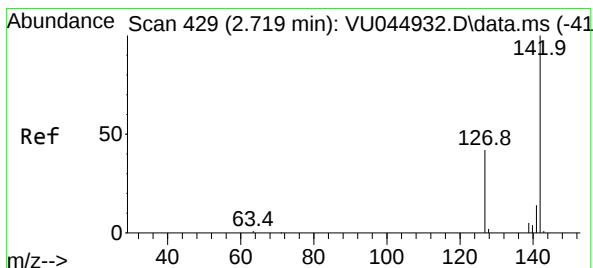
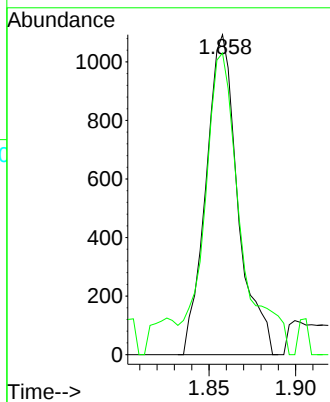
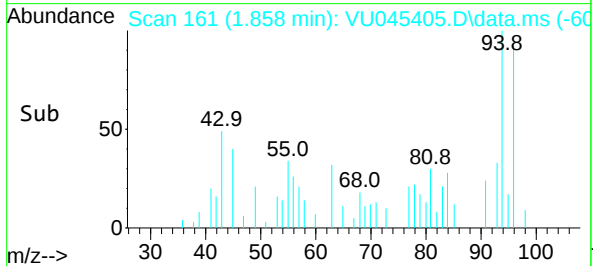


#5
Bromomethane
Concen: 1.051 ug/l
RT: 1.858 min Scan# 11
Delta R.T. 0.026 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Instrument :
MSVOA_U
ClientSampleId :

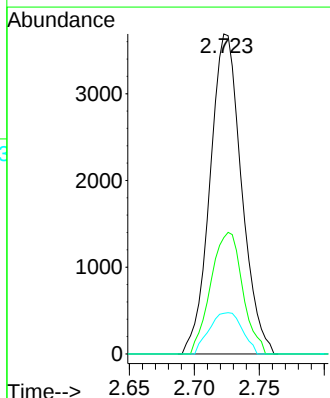
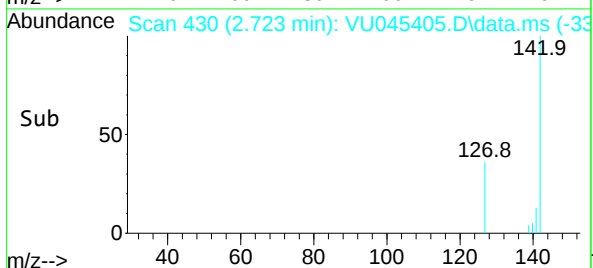
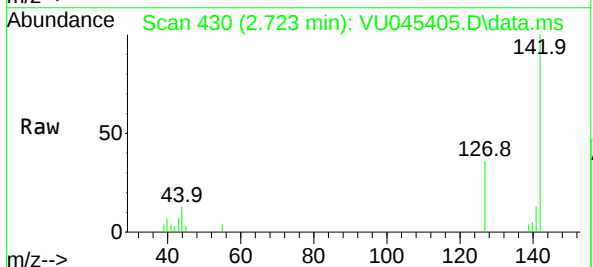


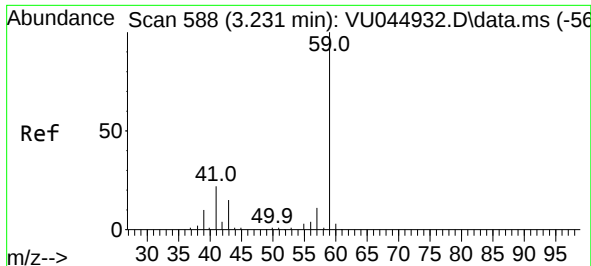
Tgt Ion: 94 Resp: 1402
Ion Ratio Lower Upper
94 100
96 85.1 74.5 111.7



#10
Methyl Iodide
Concen: 2.278 ug/l
RT: 2.723 min Scan# 430
Delta R.T. 0.004 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

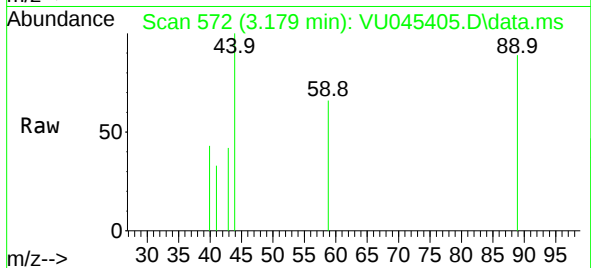
Tgt Ion: 142 Resp: 6207
Ion Ratio Lower Upper
142 100
127 38.5 35.6 53.4
141 13.5 11.3 16.9



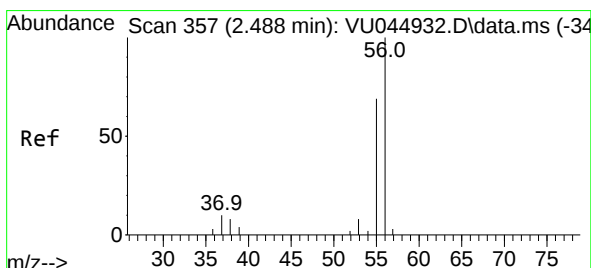
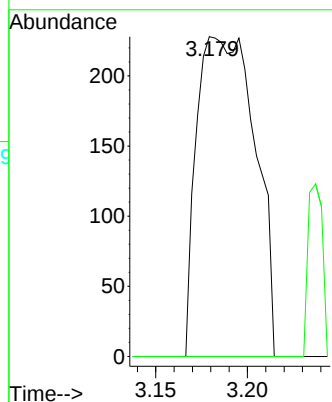
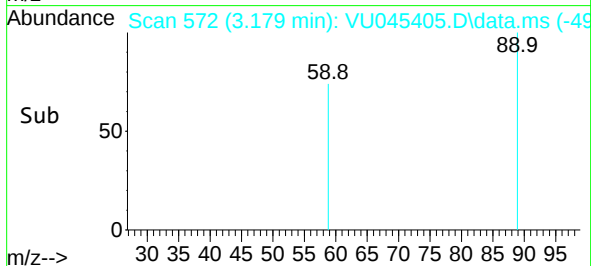


#11
Tert butyl alcohol
Concen: 0.495 ug/l
RT: 3.179 min Scan# 51
Delta R.T. -0.052 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Instrument :
MSVOA_U
ClientSampleId :

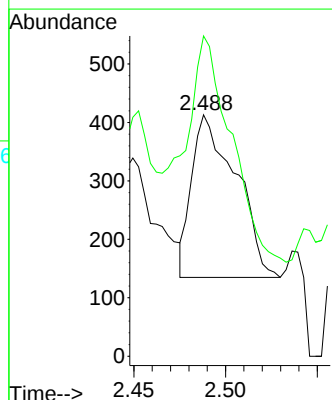
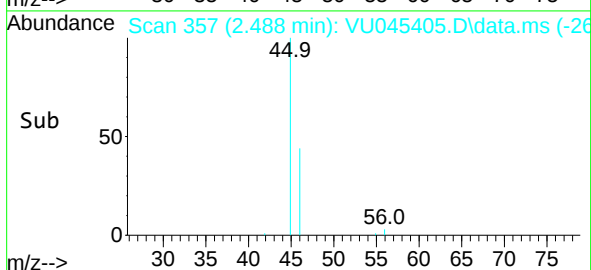
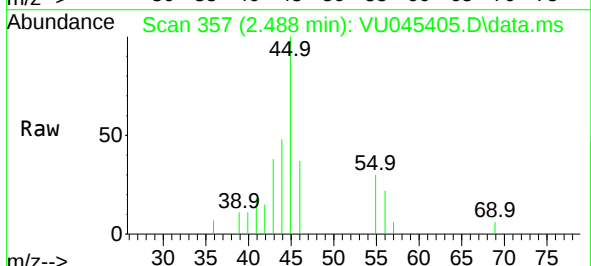


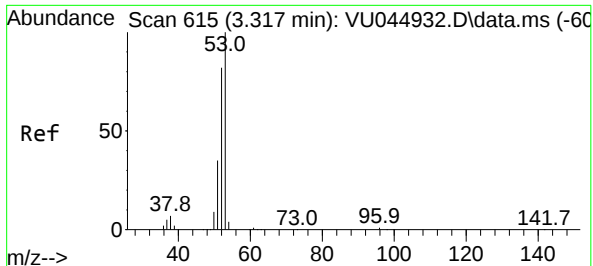
Tgt Ion: 59 Resp: 502
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 5.447 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.000 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

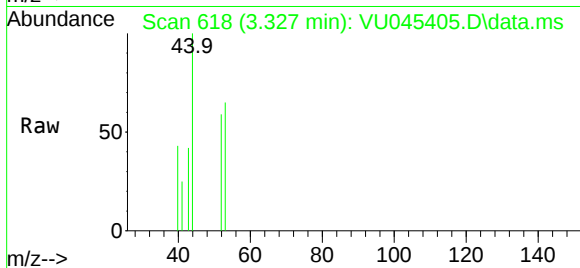
Tgt Ion: 56 Resp: 465
Ion Ratio Lower Upper
56 100
55 126.2 57.4 86.0#



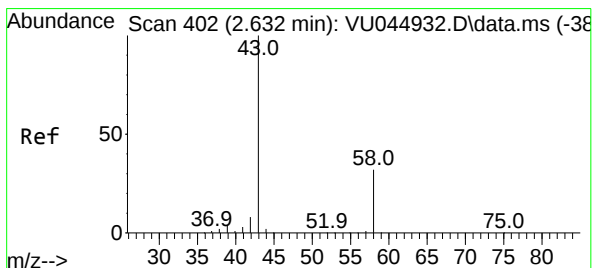
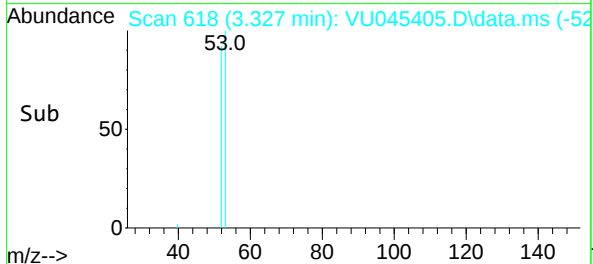
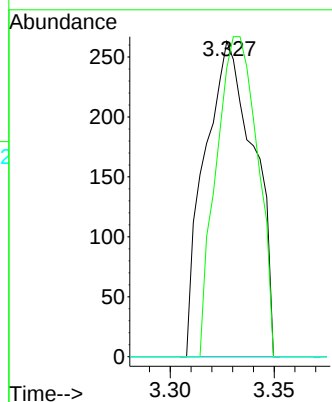


#15
Acrylonitrile
Concen: 0.212 ug/l
RT: 3.327 min Scan# 615
Delta R.T. 0.010 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Instrument :
MSVOA_U
ClientSampleId :

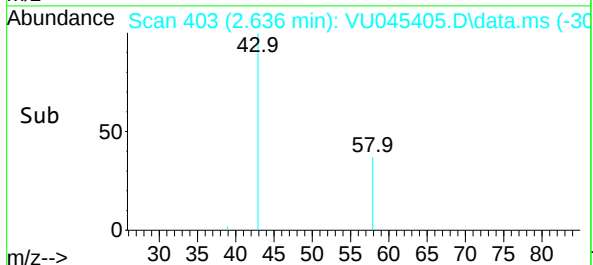
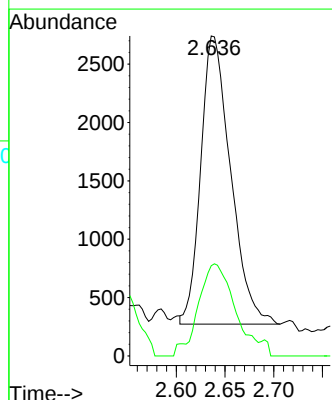
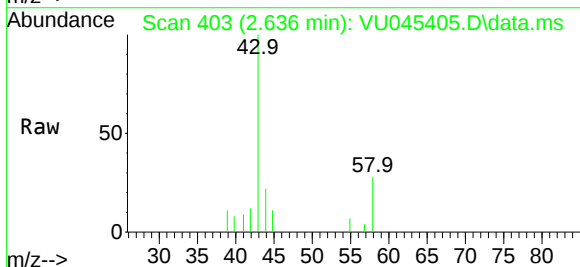


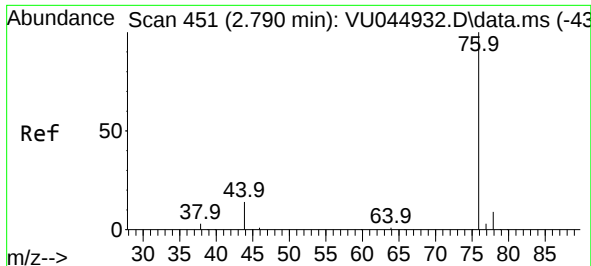
Tgt Ion: 53 Resp: 433
Ion Ratio Lower Upper
53 100
52 84.8 66.0 99.0
51 0.0 28.6 42.8#



#16
Acetone
Concen: 2.511 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.004 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

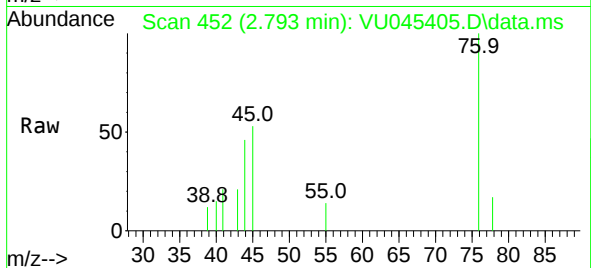
Tgt Ion: 43 Resp: 5267
Ion Ratio Lower Upper
43 100
58 31.3 25.2 37.8



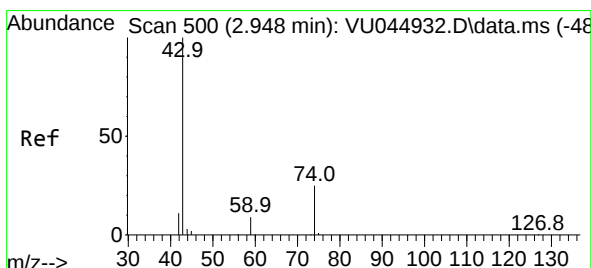
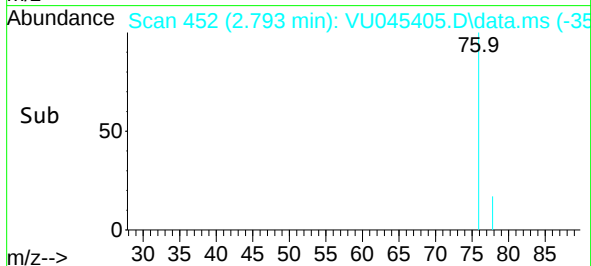
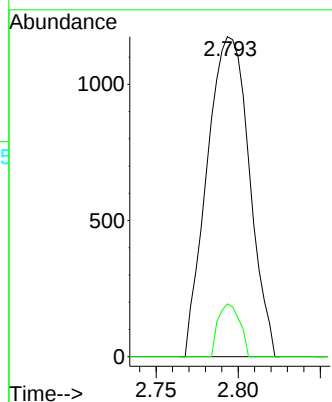


#17
Carbon Disulfide
Concen: 0.283 ug/l
RT: 2.793 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Instrument :
MSVOA_U
ClientSampleId :

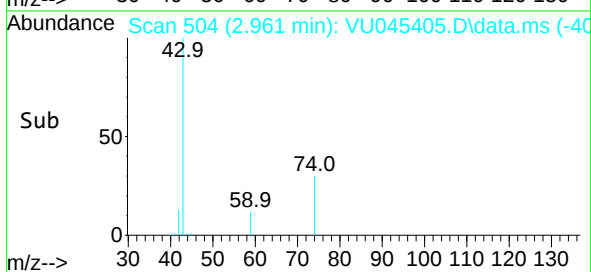
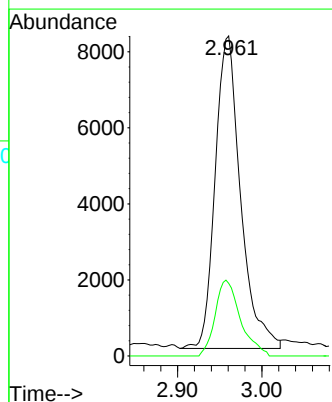
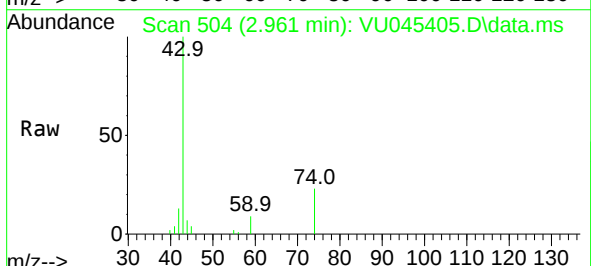


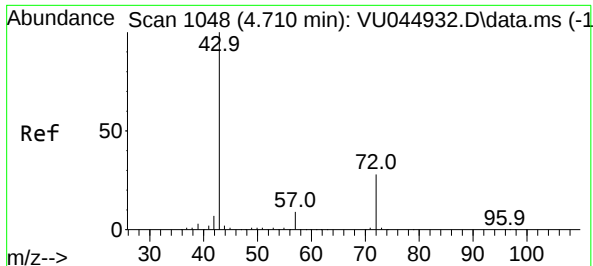
Tgt Ion: 76 Resp: 2104
Ion Ratio Lower Upper
76 100
78 16.5 7.4 11.0#



#18
Methyl Acetate
Concen: 2.805 ug/l
RT: 2.961 min Scan# 504
Delta R.T. 0.013 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Tgt Ion: 43 Resp: 17191
Ion Ratio Lower Upper
43 100
74 24.1 19.0 28.6





#25

2-Butanone

Concen: 0.405 ug/l

RT: 4.716 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

Instrument :

MSVOA_U

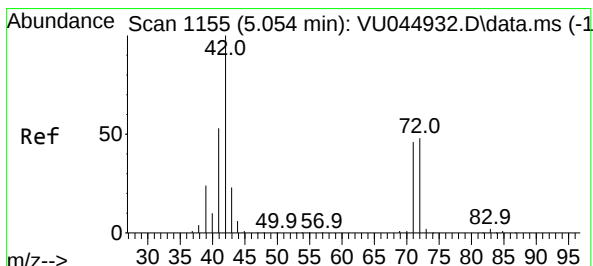
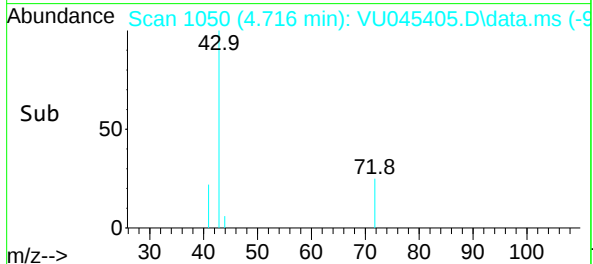
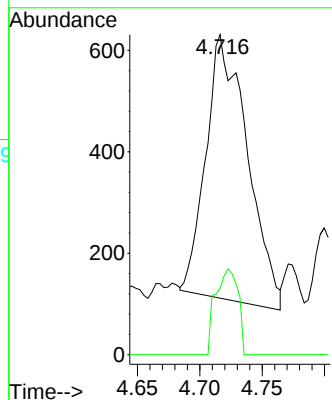
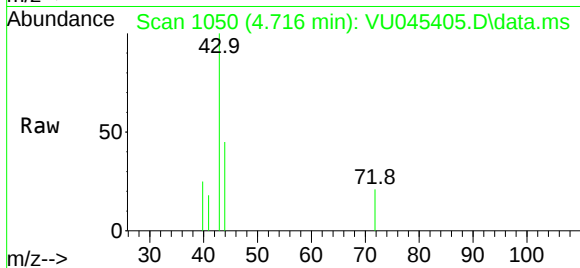
ClientSampleId :

Tgt Ion: 43 Resp: 1206

Ion Ratio Lower Upper

43 100

72 26.0 21.3 31.9



#29

Tetrahydrofuran

Concen: 0.314 ug/l

RT: 5.070 min Scan# 1160

Delta R.T. 0.016 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

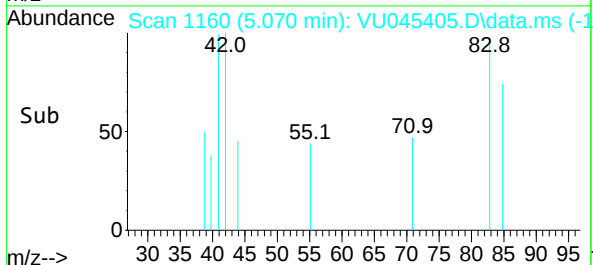
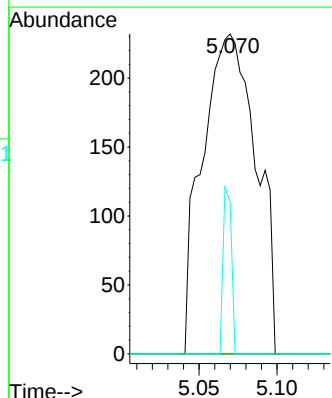
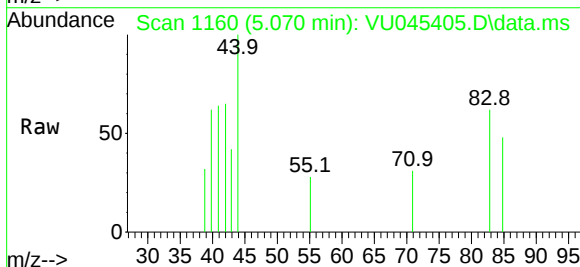
Tgt Ion: 42 Resp: 557

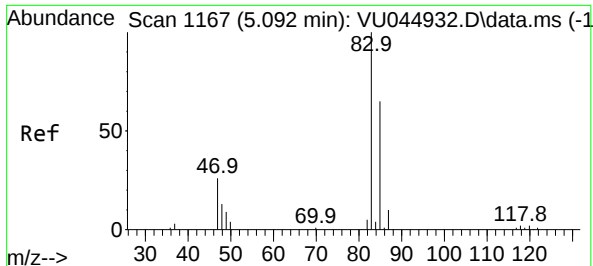
Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 8.1 34.1 51.1#





#30

Chloroform

Concen: 0.323 ug/l

RT: 5.092 min Scan# 1167

Delta R.T. 0.000 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

Instrument :

MSVOA_U

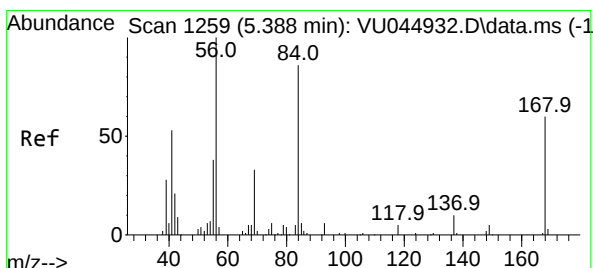
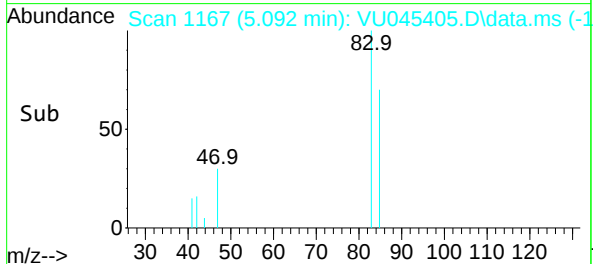
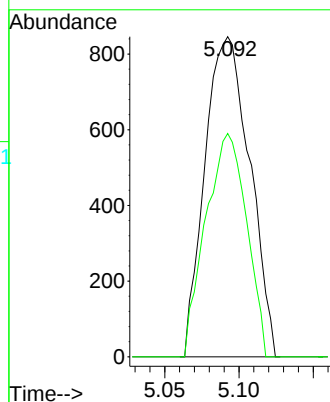
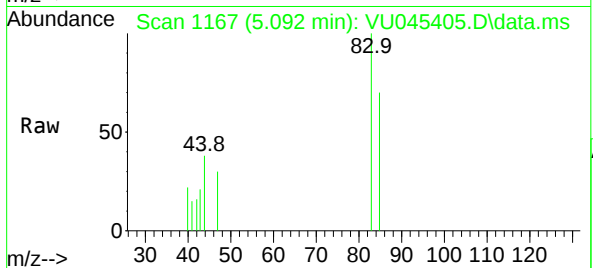
ClientSampleId :

Tgt Ion: 83 Resp: 1775

Ion Ratio Lower Upper

83 100

85 69.7 52.1 78.1



#31

Cyclohexane

Concen: 1.035 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.013 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

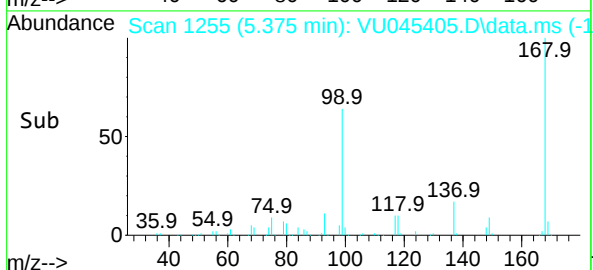
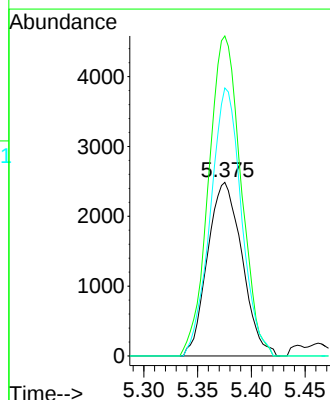
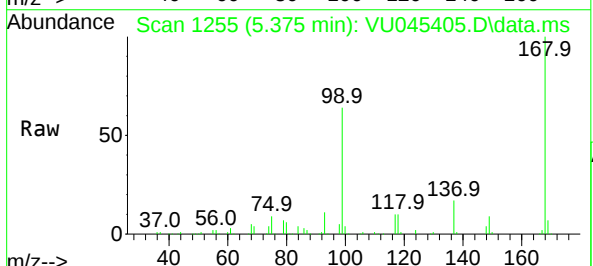
Tgt Ion: 56 Resp: 5553

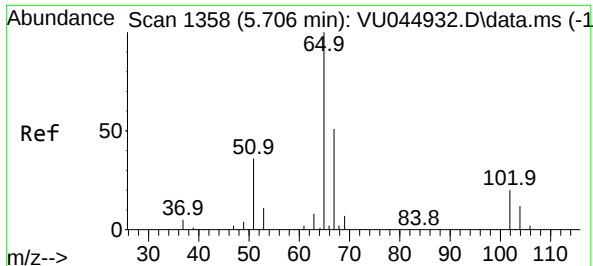
Ion Ratio Lower Upper

56 100

69 184.3 25.2 37.8#

84 154.4 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 48.209 ug/l

RT: 5.703 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

Instrument :

MSVOA_U

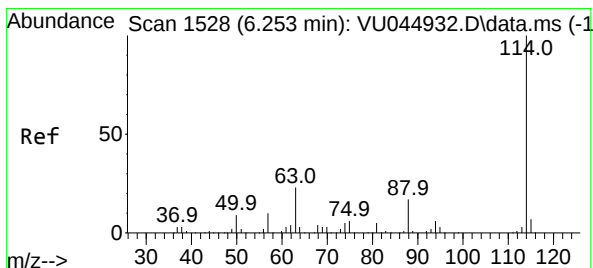
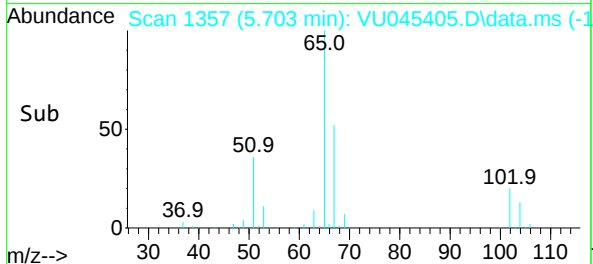
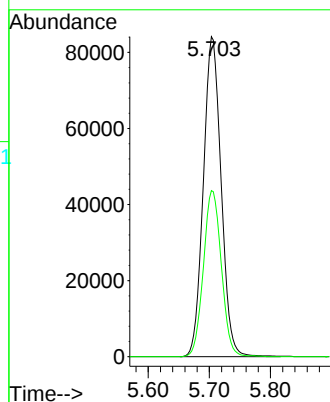
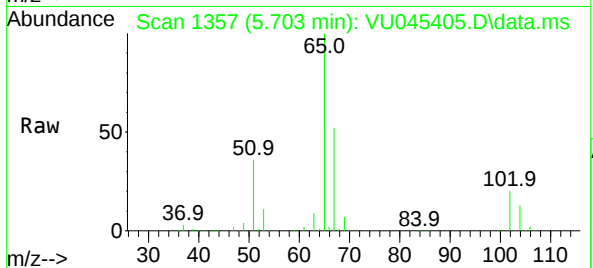
ClientSampleId :

Tgt Ion: 65 Resp: 170330

Ion Ratio Lower Upper

65 100

67 52.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

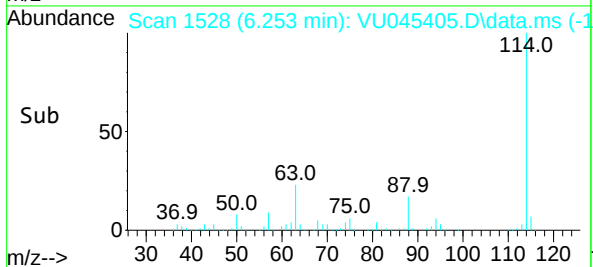
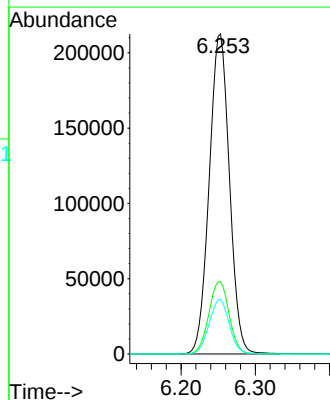
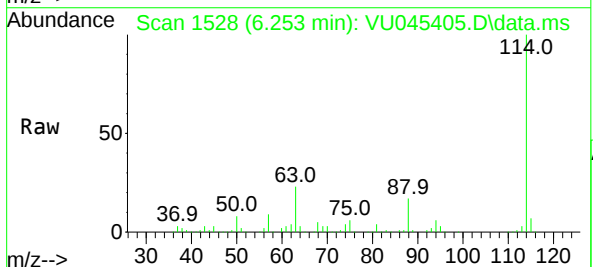
Tgt Ion: 114 Resp: 401407

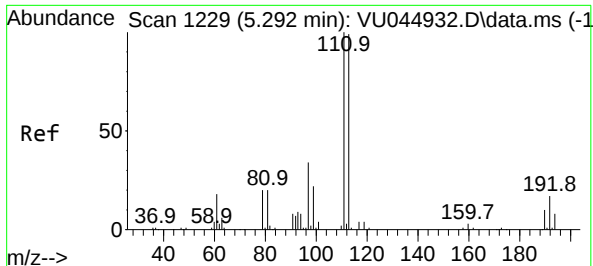
Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.8

88 17.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.758 ug/l

RT: 5.292 min Scan# 11

Delta R.T. -0.000 min

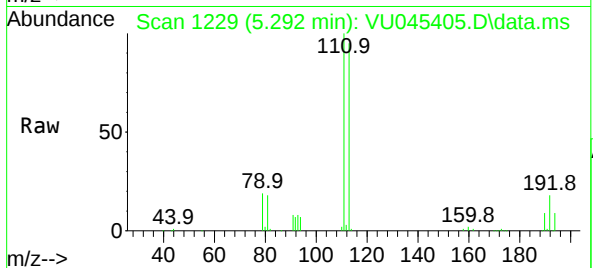
Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

Instrument :

MSVOA_U

ClientSampleId :



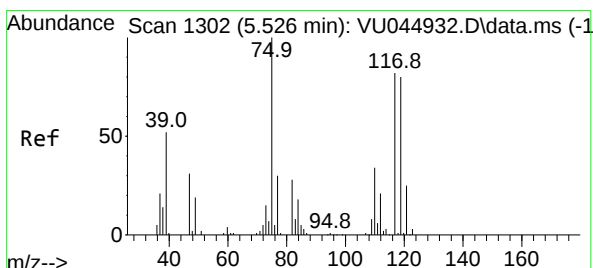
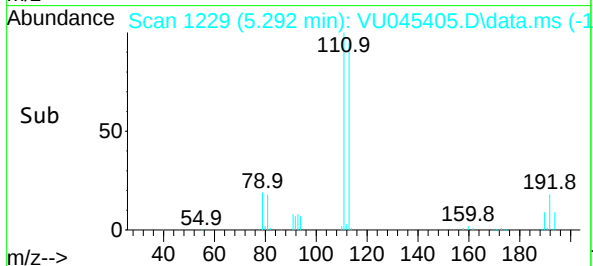
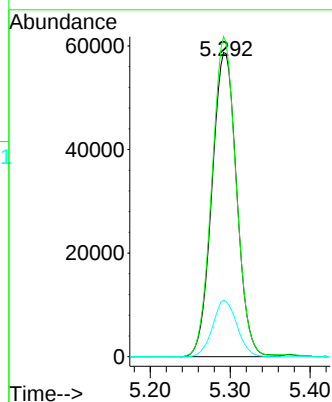
Tgt Ion:113 Resp: 125998

Ion Ratio Lower Upper

113 100

111 103.0 84.1 126.1

192 18.2 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.579 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

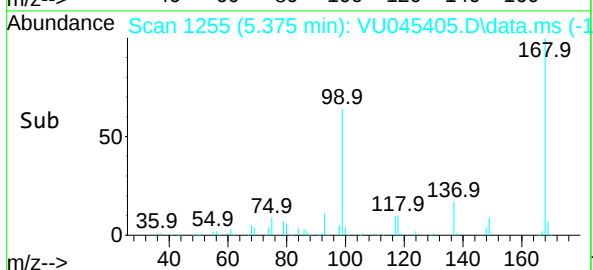
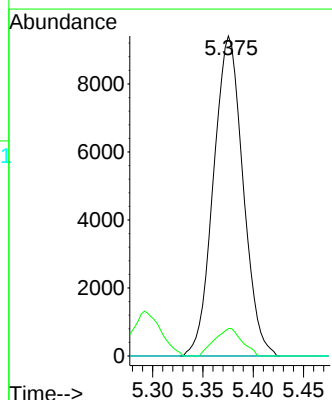
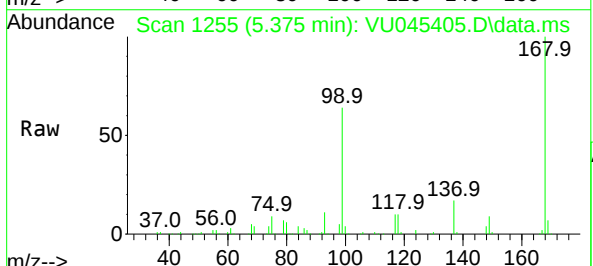
Tgt Ion: 75 Resp: 19222

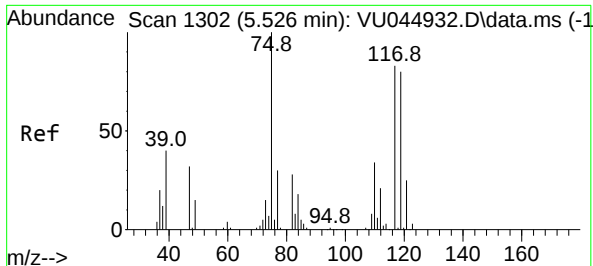
Ion Ratio Lower Upper

75 100

110 7.9 16.3 48.9#

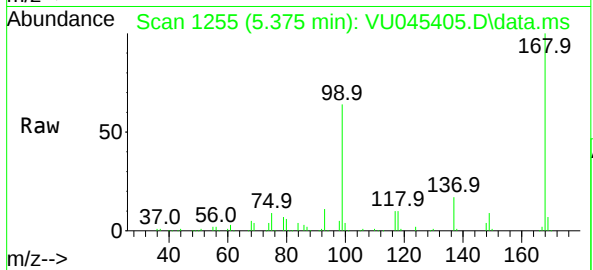
77 0.0 25.0 37.4#



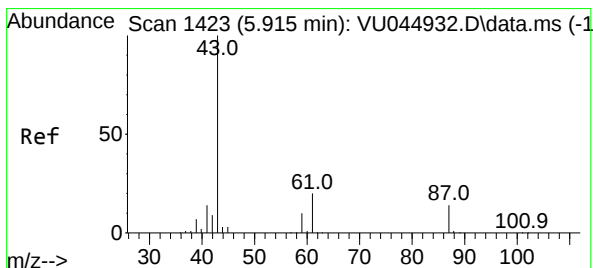
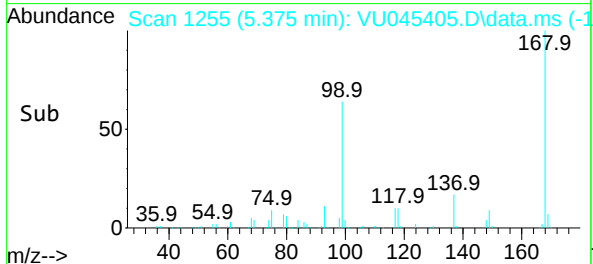
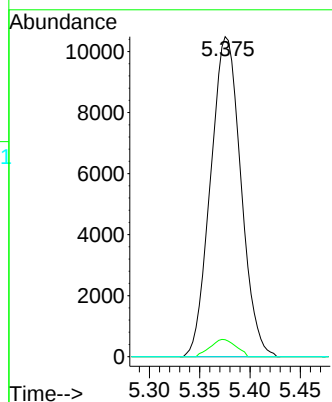


#38
Carbon Tetrachloride
Concen: 6.052 ug/l
RT: 5.375 min Scan# 117
Delta R.T. -0.151 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Instrument : MSVOA_U
ClientSampleId :

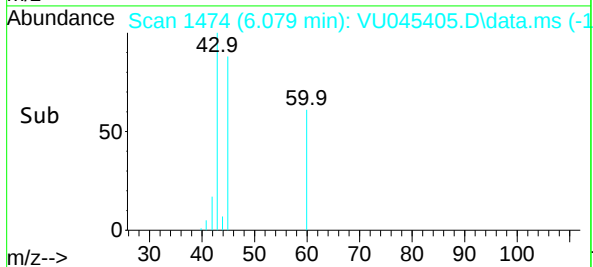
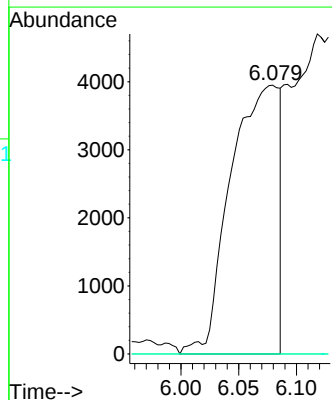
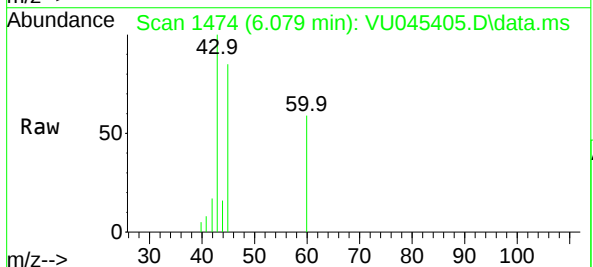


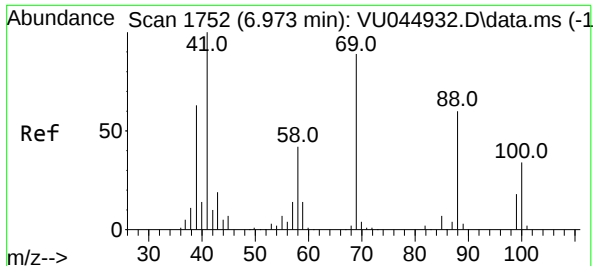
Tgt Ion:117 Resp: 21982
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.2#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 1.385 ug/l
RT: 6.079 min Scan# 1474
Delta R.T. 0.164 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Tgt Ion: 43 Resp: 11575
Ion Ratio Lower Upper
43 100
61 0.0 16.1 24.1#
87 0.0 10.3 15.5#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.005 min Scan# 1

Delta R.T. 0.032 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

Instrument :

MSVOA_U

ClientSampleId :

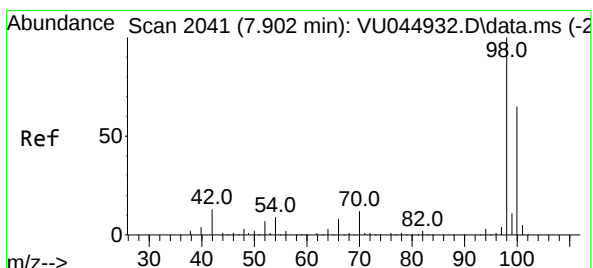
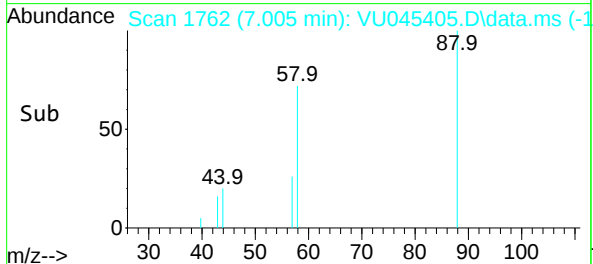
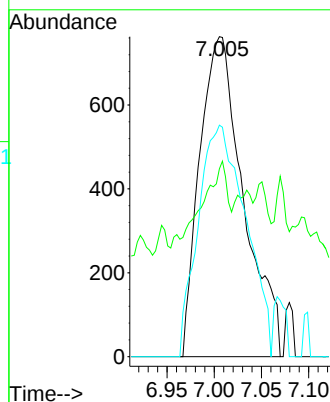
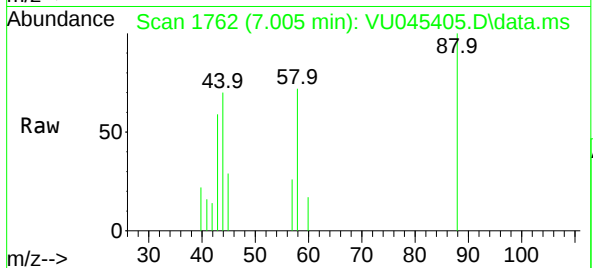
Tgt Ion: 88 Resp: 2454

Ion Ratio Lower Upper

88 100

43 11.7 25.8 38.6#

58 78.3 61.3 91.9



#50

Toluene-d8

Concen: 50.412 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.003 min

Lab File: VU045405.D

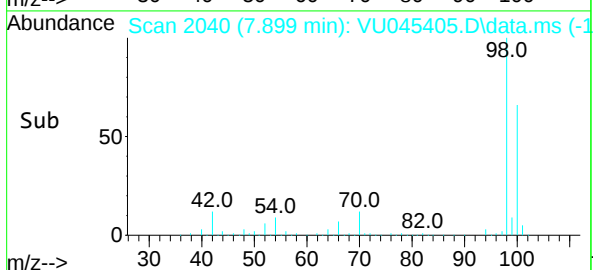
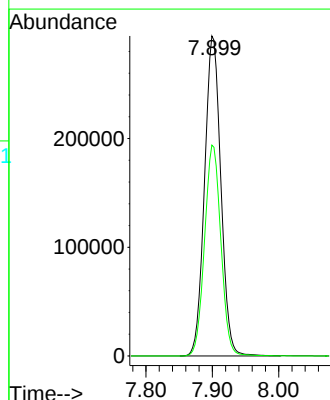
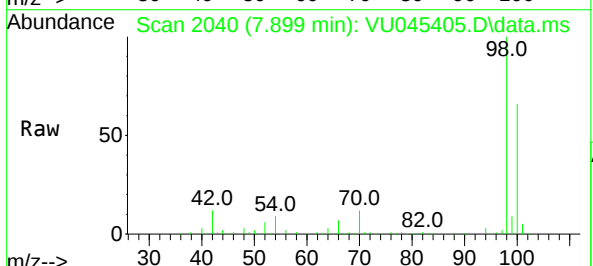
Acq: 26 Oct 2021 16:58

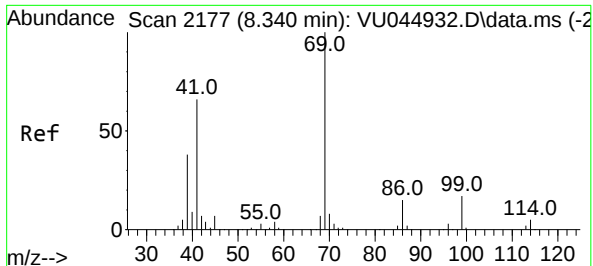
Tgt Ion: 98 Resp: 504380

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7





#56

Ethyl methacrylate

Concen: 1.828 ug/l

RT: 8.340 min Scan# 2177

Delta R.T. -0.000 min

Lab File: VU045405.D

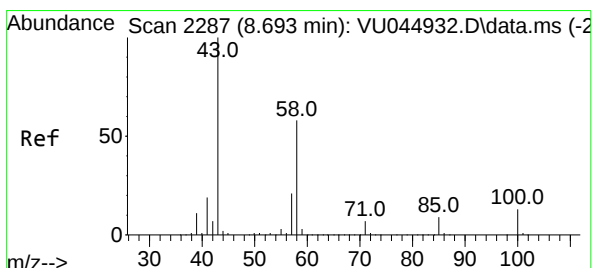
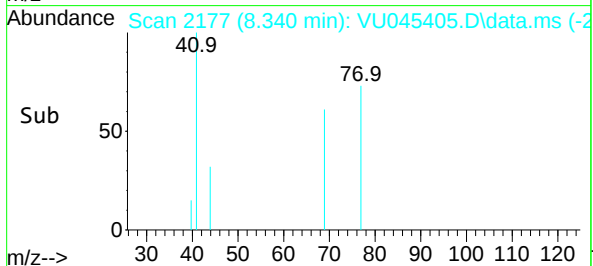
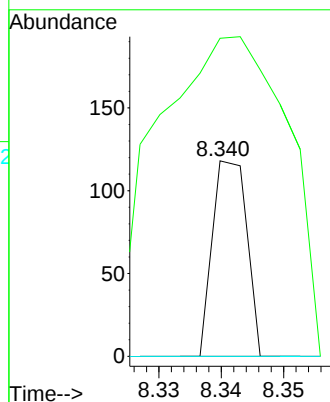
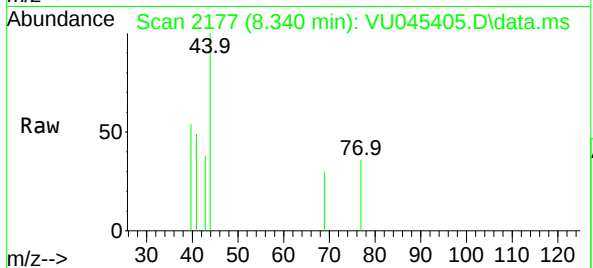
Acq: 26 Oct 2021 16:58

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	69	Resp:	45
Ion	Ratio	Lower	Upper
69	100		
41	615.6	53.5	80.3#
39	0.0	31.1	46.7#



#59

2-Hexanone

Concen: 0.201 ug/l

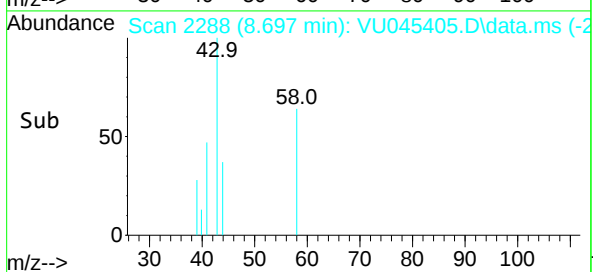
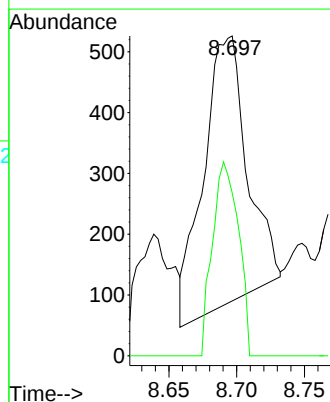
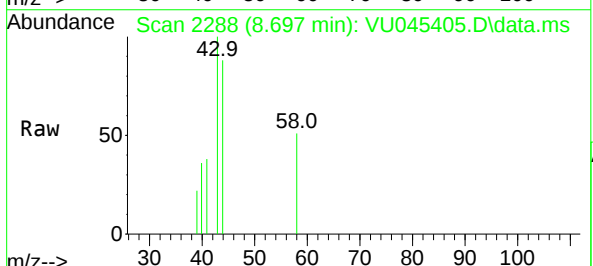
RT: 8.697 min Scan# 2288

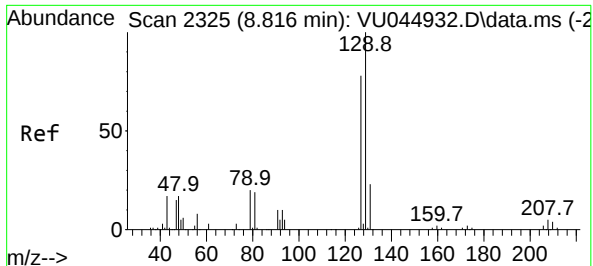
Delta R.T. 0.004 min

Lab File: VU045405.D

Acq: 26 Oct 2021 16:58

Tgt Ion:	43	Resp:	996
Ion	Ratio	Lower	Upper
43	100		
58	42.7	28.0	84.0

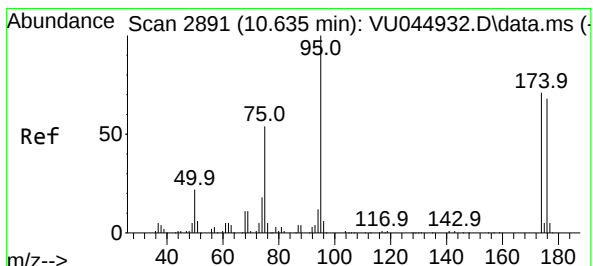
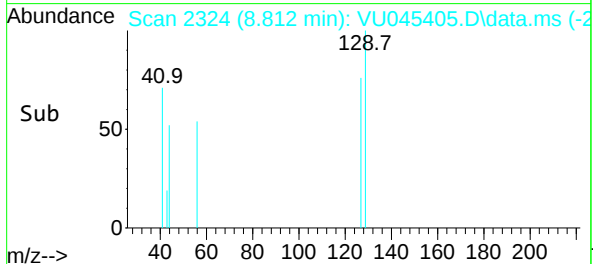
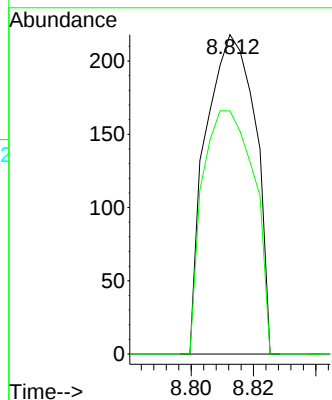
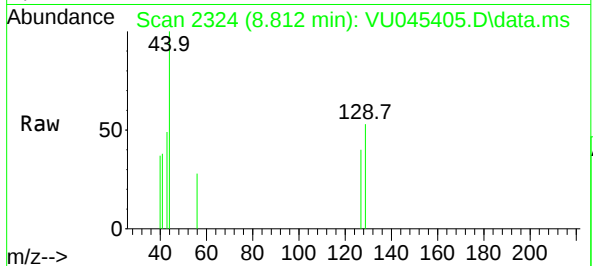




#60
Dibromochloromethane
Concen: 2.242 ug/l
RT: 8.812 min Scan# 21
Delta R.T. -0.004 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

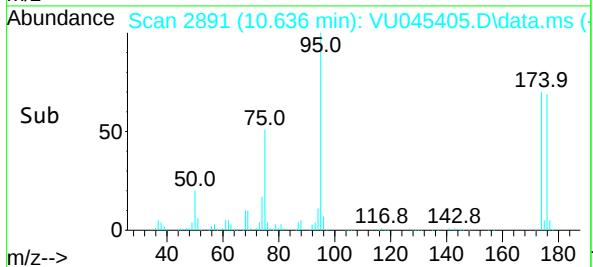
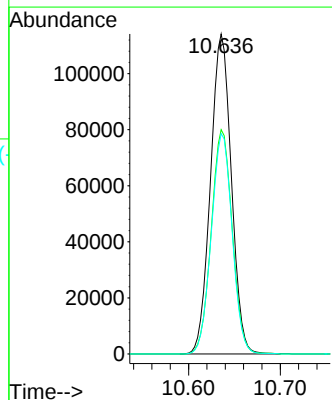
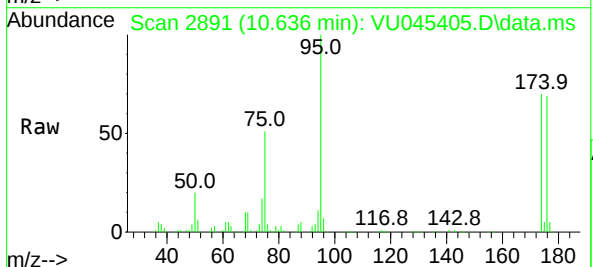
Instrument :
MSVOA_U
ClientSampleId :

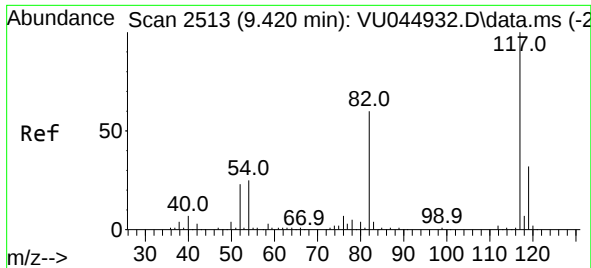
Tgt Ion:129 Resp: 239
Ion Ratio Lower Upper
129 100
127 79.1 39.0 117.0



#62
4-Bromofluorobenzene
Concen: 43.611 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.001 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Tgt Ion: 95 Resp: 180143
Ion Ratio Lower Upper
95 100
174 70.7 0.0 146.6
176 68.9 0.0 141.2

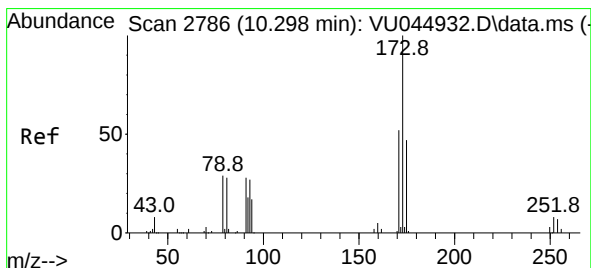
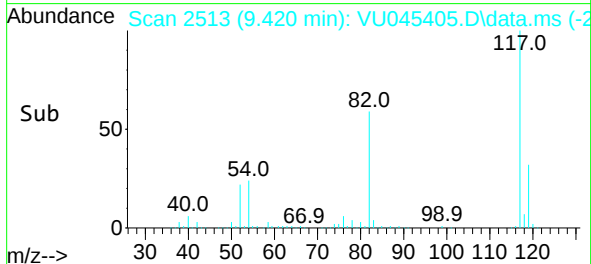
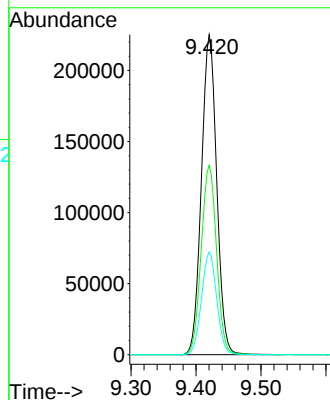
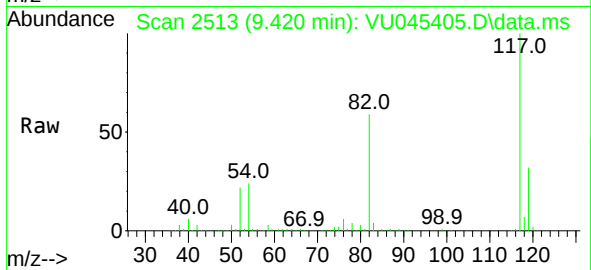




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

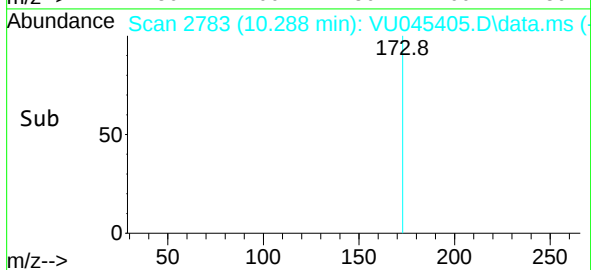
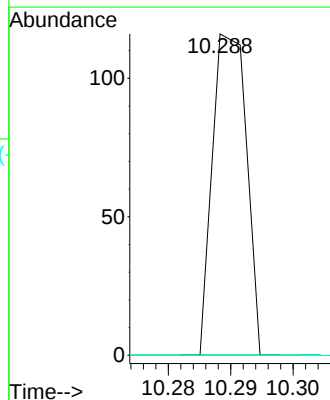
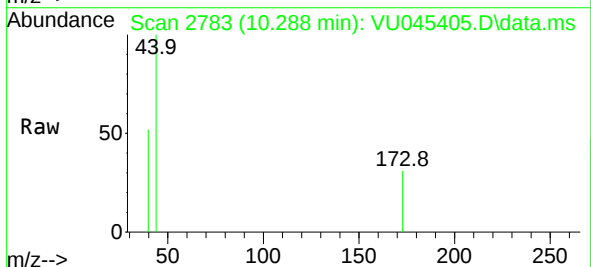
Instrument :
MSVOA_U
ClientSampleId :

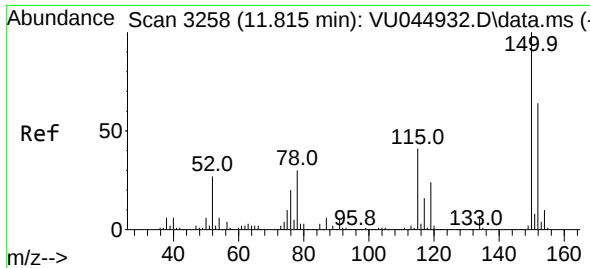
Tgt Ion:117 Resp: 369549
Ion Ratio Lower Upper
117 100
82 59.2 47.8 71.8
119 32.0 25.8 38.6



#71
Bromoform
Concen: 1.135 ug/l
RT: 10.288 min Scan# 2783
Delta R.T. -0.010 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

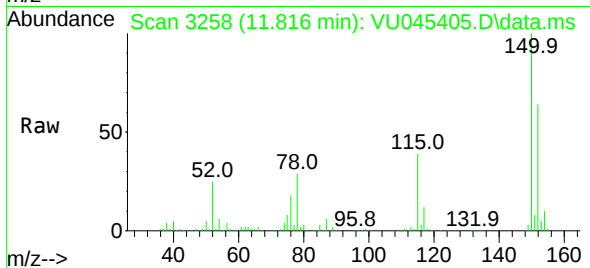
Tgt Ion:173 Resp: 44
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



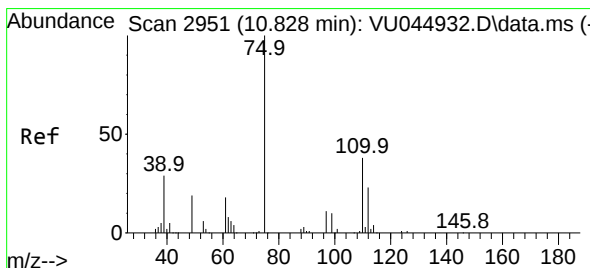
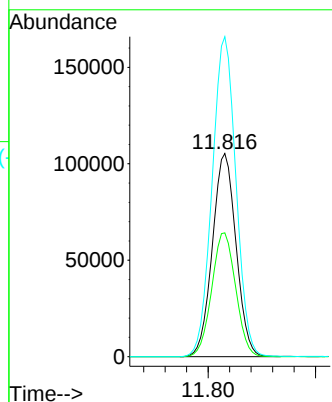
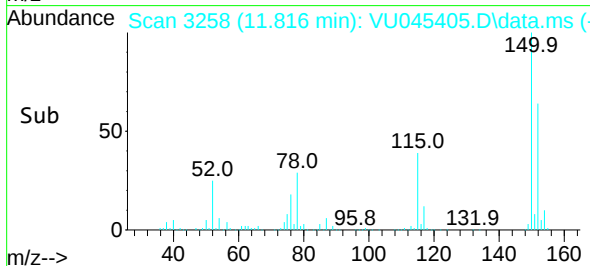


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.816 min Scan# 31
 Delta R.T. 0.001 min
 Lab File: VU045405.D
 Acq: 26 Oct 2021 16:58

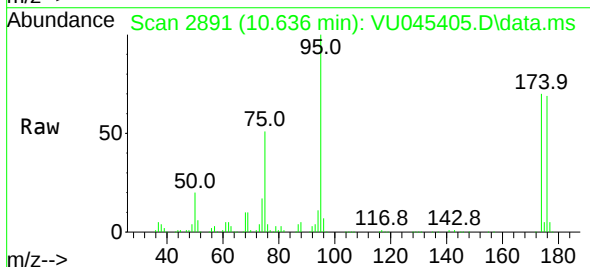
Instrument :
 MSVOA_U
 ClientSampleId :



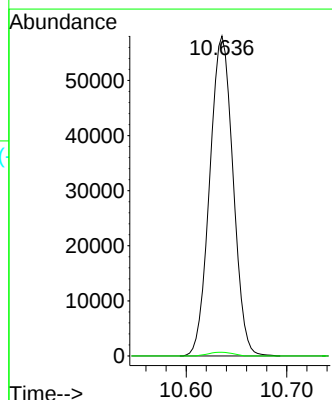
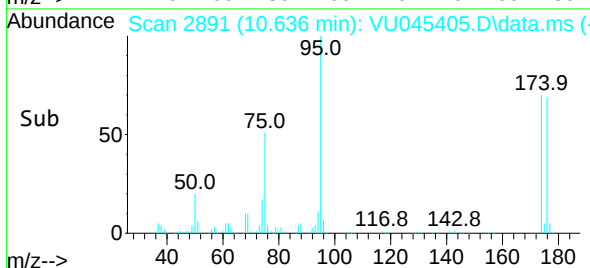
Tgt Ion:152 Resp: 161082
 Ion Ratio Lower Upper
 152 100
 115 61.7 43.5 130.7
 150 158.5 0.0 350.0

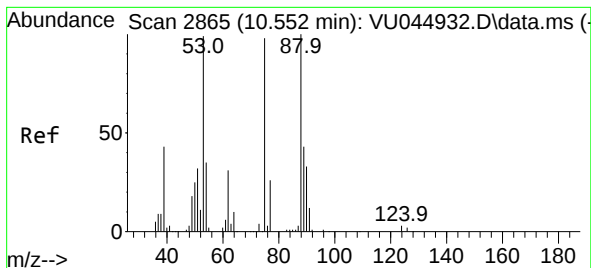


#76
 1,2,3-Trichloropropane
 Concen: 19.932 ug/l
 RT: 10.636 min Scan# 2891
 Delta R.T. -0.192 min
 Lab File: VU045405.D
 Acq: 26 Oct 2021 16:58



Tgt Ion: 75 Resp: 93650
 Ion Ratio Lower Upper
 75 100
 77 1.2 17.9 53.7#

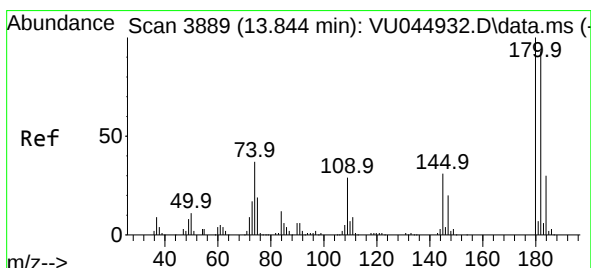
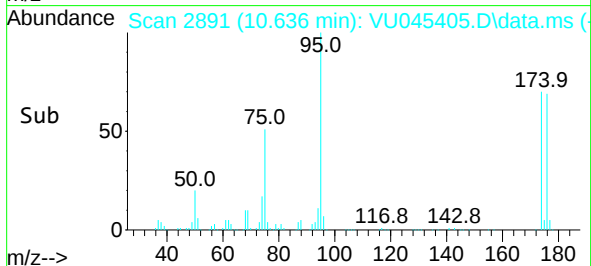
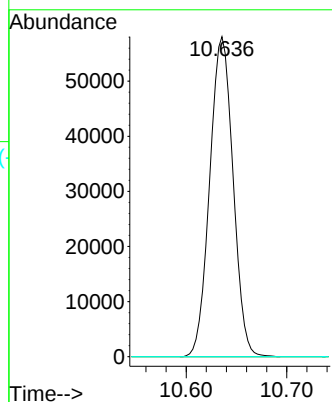
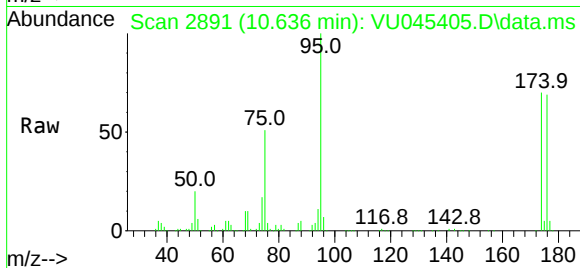




#81
trans-1,4-Dichloro-2-butene
Concen: 55.315 ug/l
RT: 10.636 min Scan# 2865
Delta R.T. 0.084 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

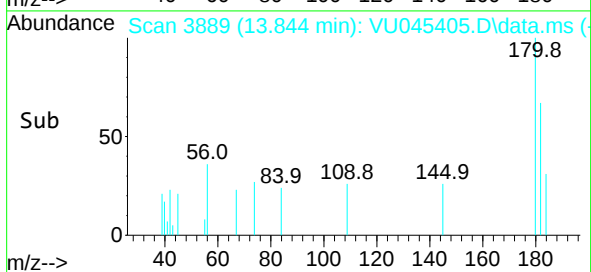
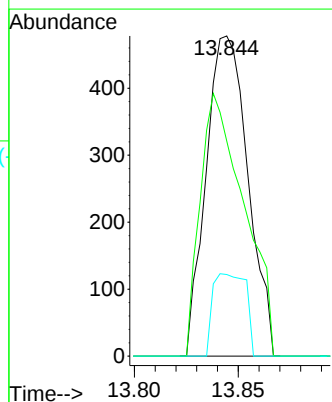
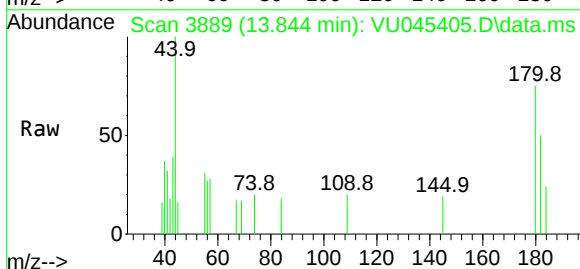
Instrument :
MSVOA_U
ClientSampleId :

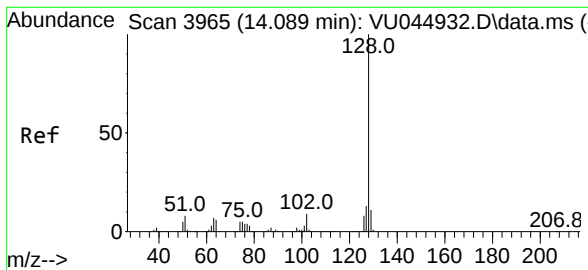
Tgt Ion: 75 Resp: 93650
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.212 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.000 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

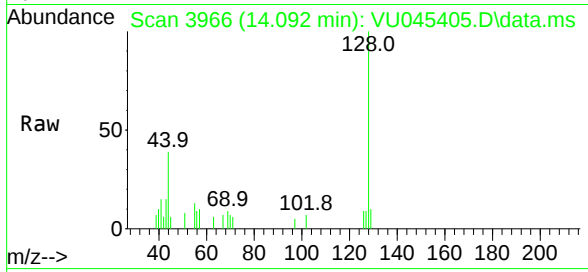
Tgt Ion:180 Resp: 671
Ion Ratio Lower Upper
180 100
182 85.8 47.4 142.3
145 20.1 15.4 46.2





#95
Naphthalene
Concen: 0.266 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045405.D
Acq: 26 Oct 2021 16:58

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	3165
Ion	Ratio	Lower	Upper
128	100		
127	9.8	10.4	15.6#
129	9.7	8.6	13.0

