

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034177.D
 Acq On : 01 Sep 2019 18:25
 Operator : JC/SP
 Sample : K4527-28
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:34:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	440066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	716702	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	711184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	342345	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	282208	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
35) Dibromofluoromethane	4.86	113	233188	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	7.55	98	923847	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	10.29	95	323681	44.71	ug/l	0.00
Spiked Amount			Recovery	=	89.42%	

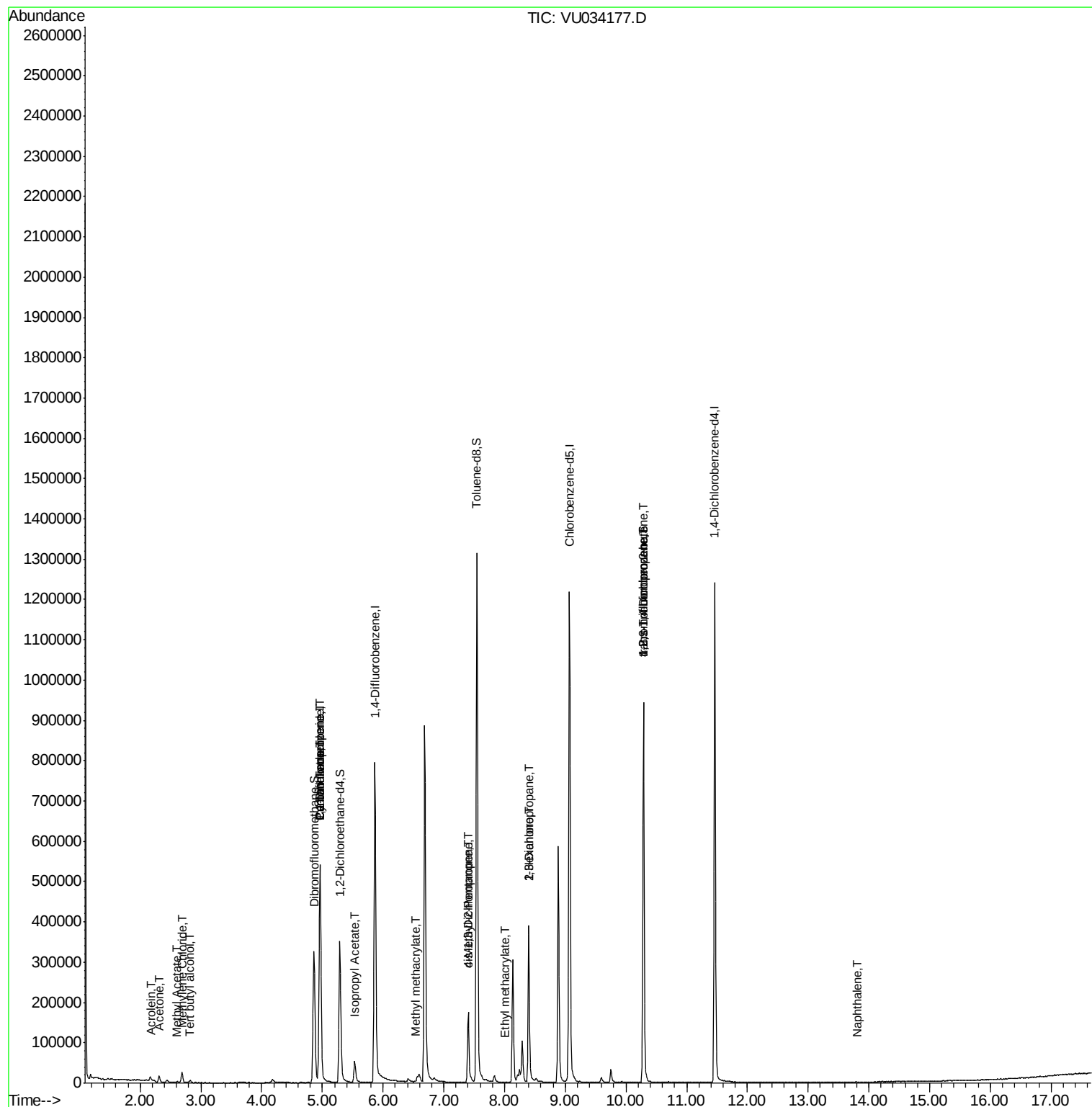
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	437	Below Cal	#	50
5) Bromomethane	1.64	94	509	Below Cal	#	78
11) Tert butyl alcohol	2.82	59	3435	2.642	ug/l #	73
13) Acrolein	2.20	56	119	0.218	ug/l #	14
16) Acetone	2.31	43	17855	6.206	ug/l	95
18) Methyl Acetate	2.61	43	2502	0.337	ug/l	95
20) Methylene Chloride	2.69	84	11937	2.192	ug/l	94
31) Cyclohexane	4.96	56	8110	0.963	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32731	4.828	ug/l #	48
38) Carbon Tetrachloride	4.96	117	41739	6.379	ug/l #	17
43) Isopropyl Acetate	5.53	43	62864	5.443	ug/l	98
48) Methyl methacrylate	6.53	41	4584	0.823	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	60392	7.572	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	33231	3.852	ug/l #	63
56) Ethyl methacrylate	8.01	69	76	0.980	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	4202	0.463	ug/l #	42
59) 2-Hexanone	8.40	43	54430	9.040	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	155029	20.092	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	155029	67.655	ug/l #	100
95) Naphthalene	13.80	128	42	1.792	ug/l #	70

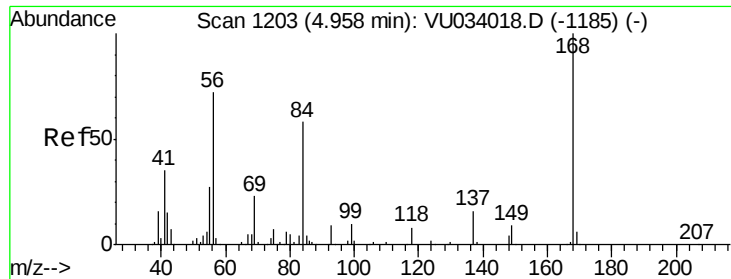
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

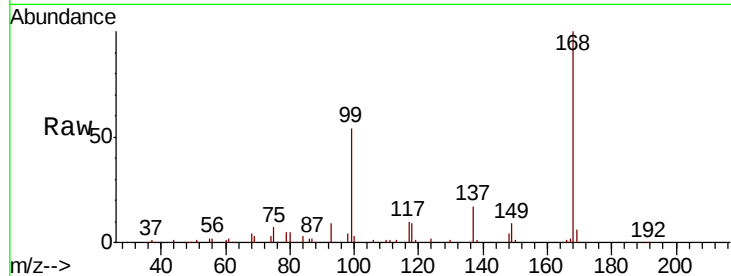
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 440066

Ion Ratio Lower Upper

168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

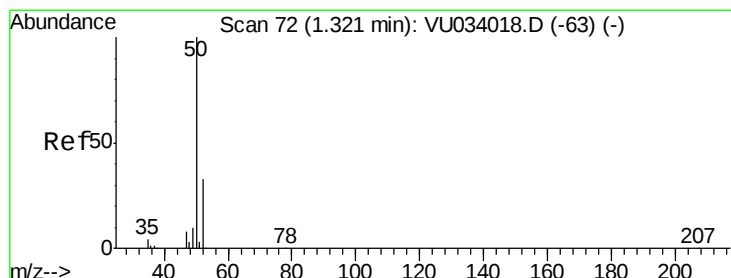
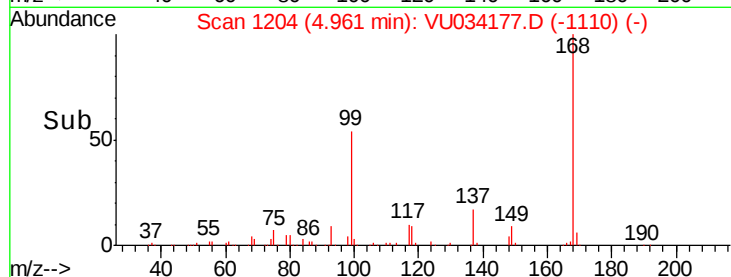
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034177.D

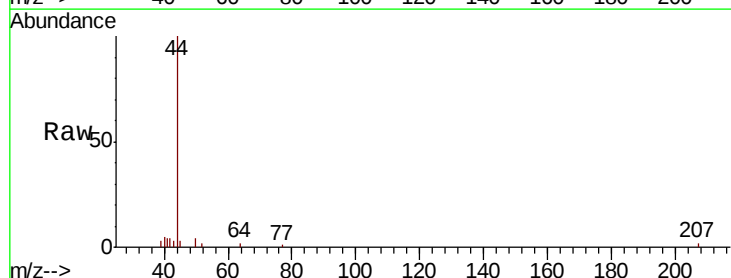
Acq: 01 Sep 2019 18:25

Tgt Ion: 50 Resp: 437

Ion Ratio Lower Upper

50 100

52 60.8 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

300

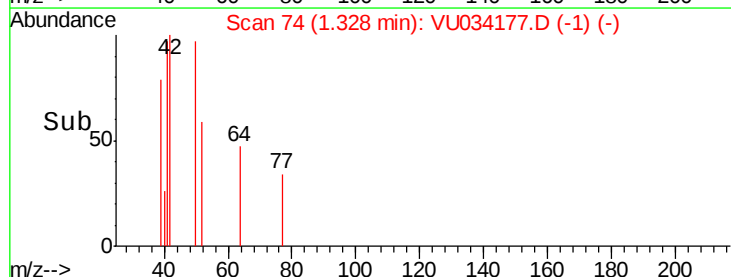
200

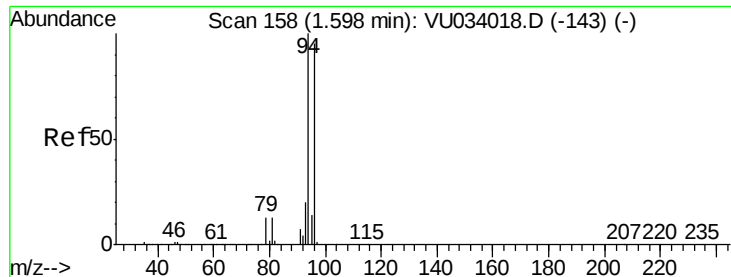
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 171

Delta R.T. 0.04 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

Instrument :

MSVOA_U

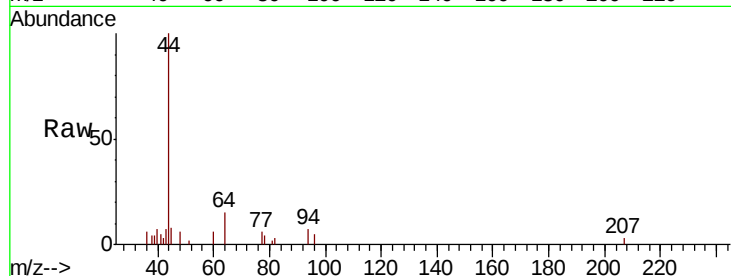
ClientSampleId :

Tot Ion: 94 Resp: 509

Ion Ratio Lower Upper

94 100

96 74.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

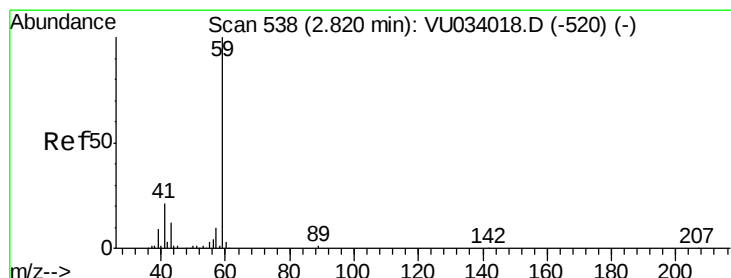
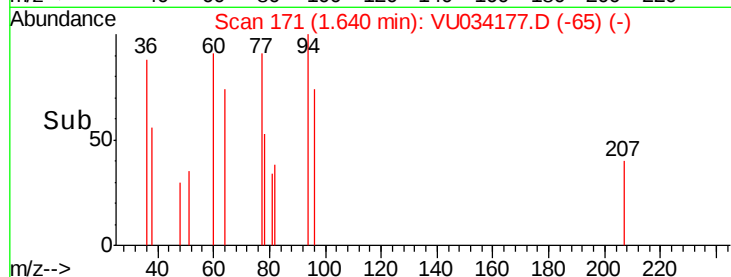
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 2.642 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034177.D

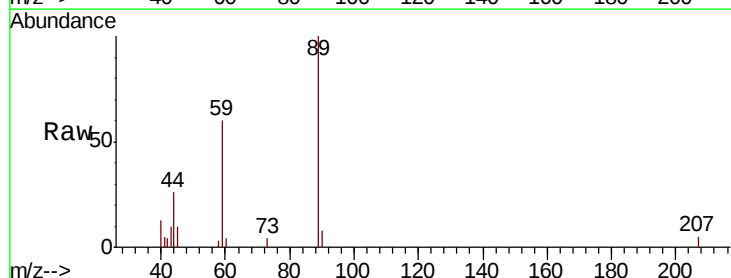
Acq: 01 Sep 2019 18:25

Tgt Ion: 59 Resp: 3435

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2000

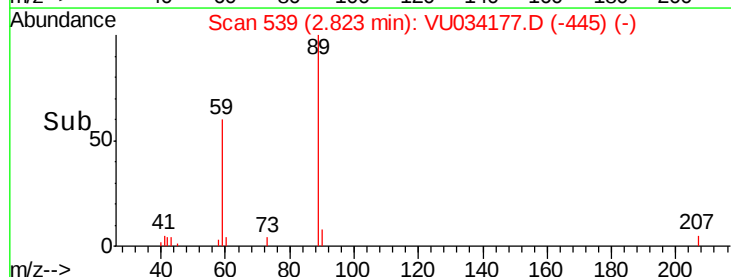
1500

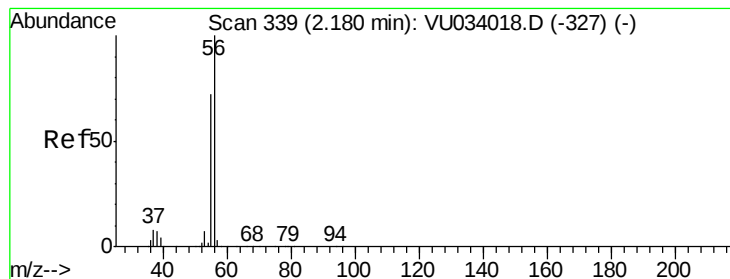
1000

500

0

Time-->





#13

Acrolein

Concen: 0.218 ug/l

RT: 2.20 min Scan# 344

Delta R.T. 0.02 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

Instrument :

MSVOA_U

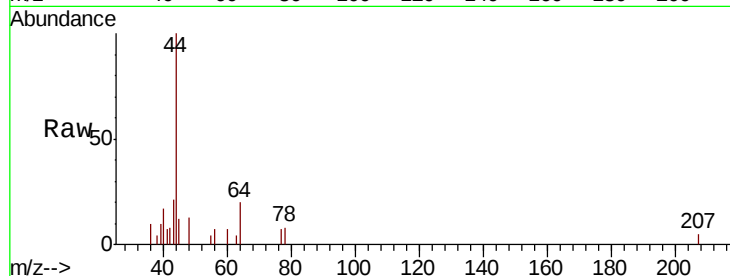
ClientSampleId :

Tot Ion: 56 Resp: 119

Ion Ratio Lower Upper

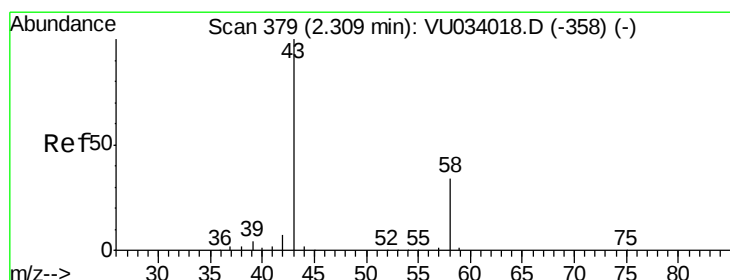
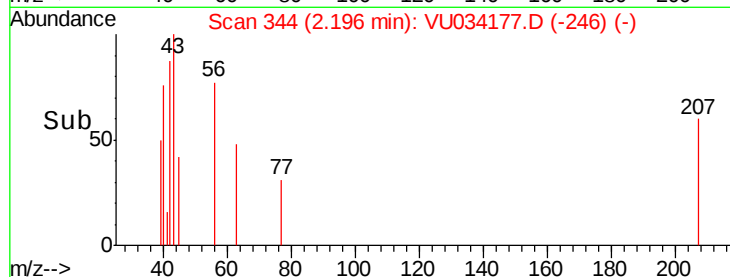
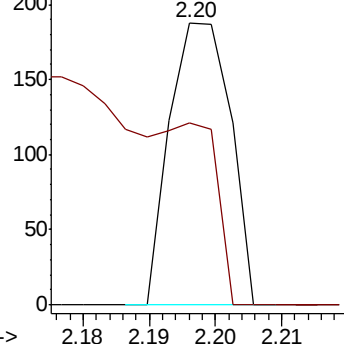
56 100

55 0.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 6.206 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034177.D

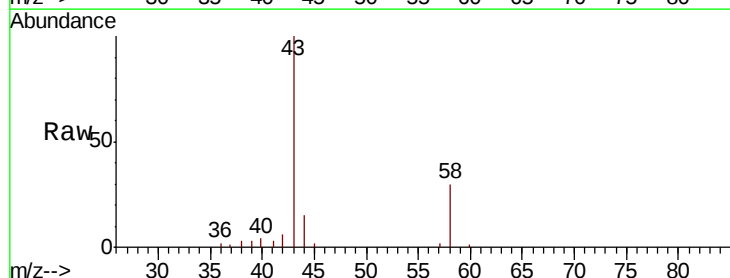
Acq: 01 Sep 2019 18:25

Tgt Ion: 43 Resp: 17855

Ion Ratio Lower Upper

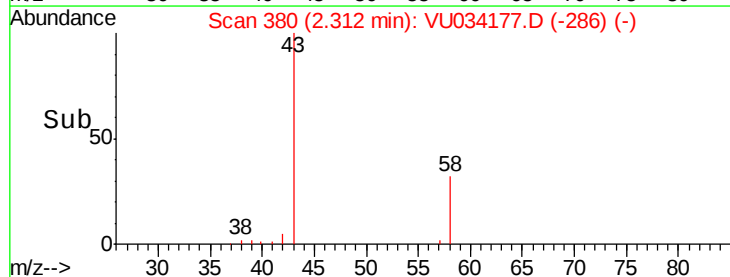
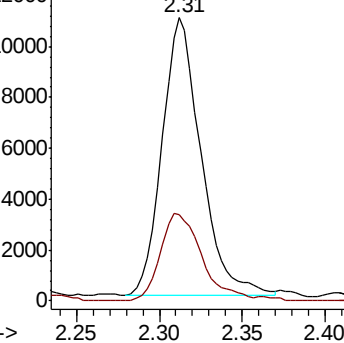
43 100

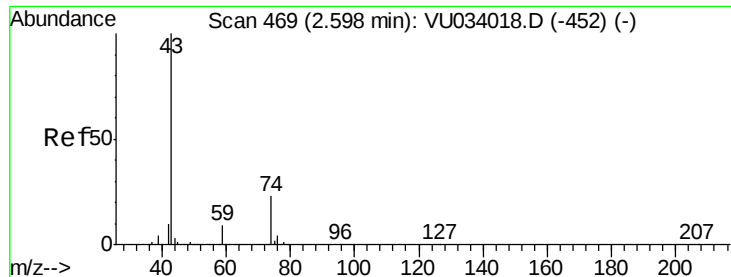
58 30.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

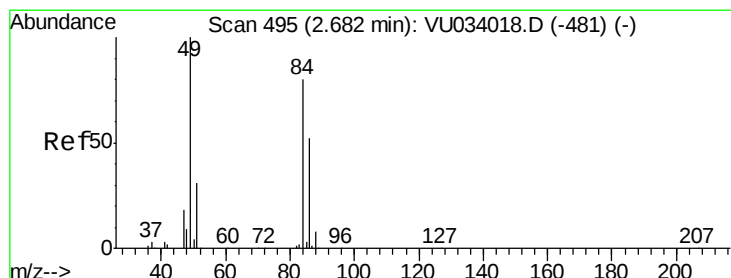
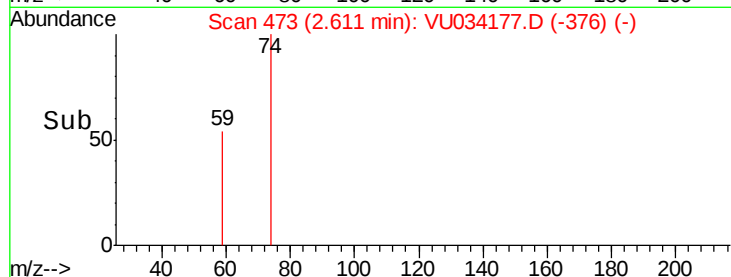
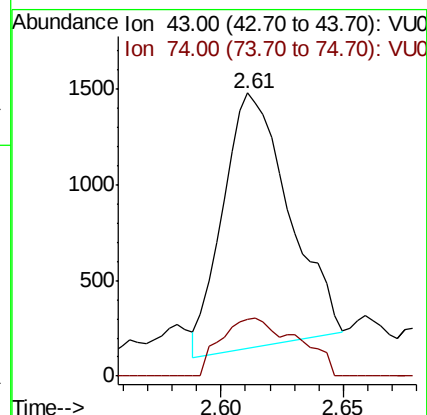
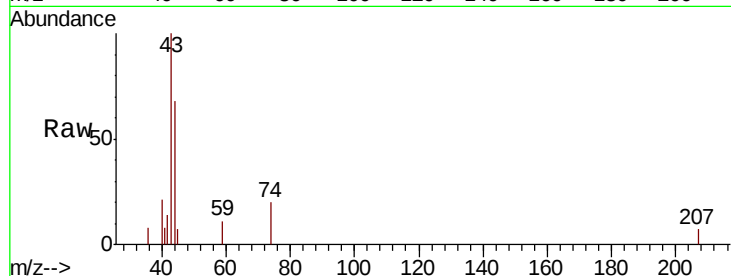




#18
Methyl Acetate
Concen: 0.337 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

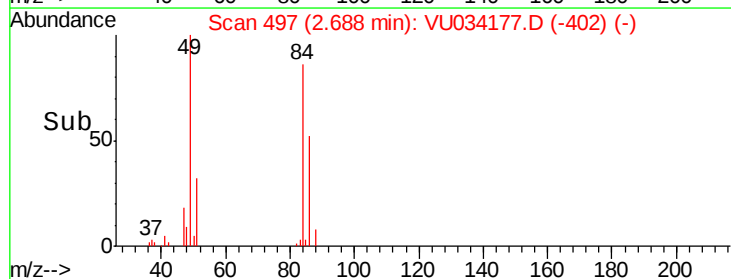
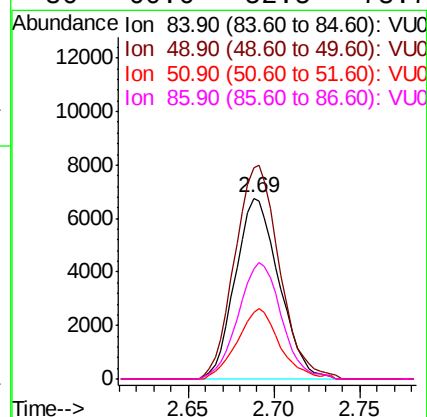
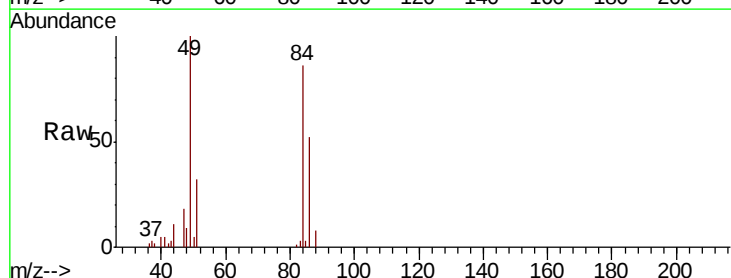
Instrument :
MSVOA_U
ClientSampled :

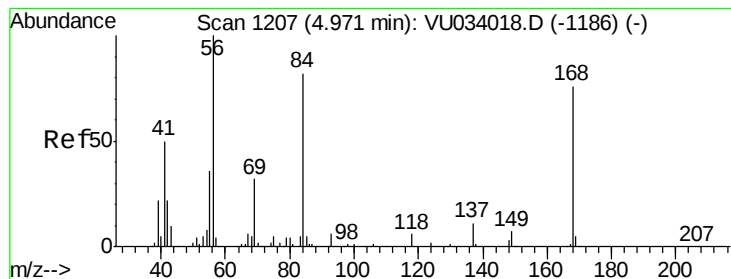
Tot Ion: 43 Resp: 2502
Ion Ratio Lower Upper
43 100
74 26.5 19.2 28.8



#20
Methylene Chloride
Concen: 2.192 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Tgt Ion: 84 Resp: 11937
Ion Ratio Lower Upper
84 100
49 117.0 100.2 150.4
51 37.0 30.8 46.2
86 60.6 52.5 78.7





#31

Cyclohexane

Concen: 0.963 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

Instrument :
MSVOA_U
ClientSampleId :

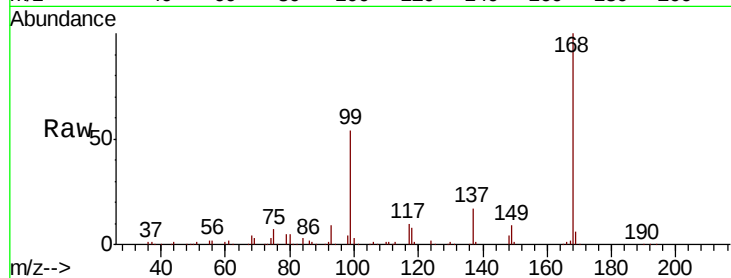
Tot Ion: 56 Resp: 8110

Ion Ratio Lower Upper

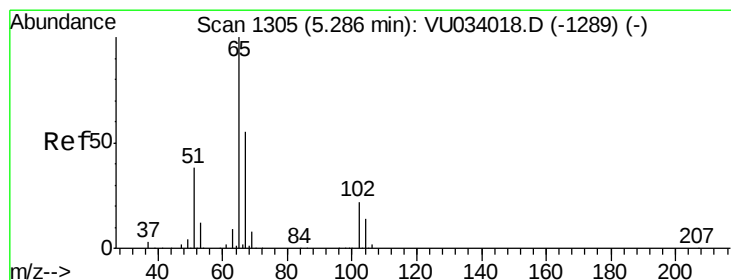
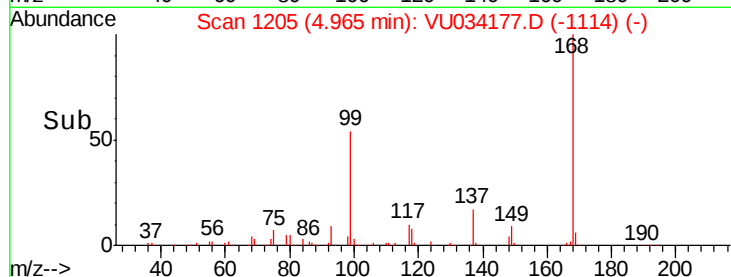
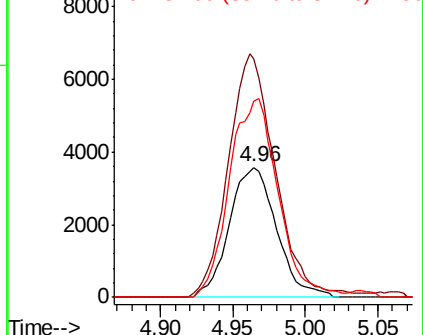
56 100

69 183.4 25.4 38.0#

84 151.2 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 50.048 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034177.D

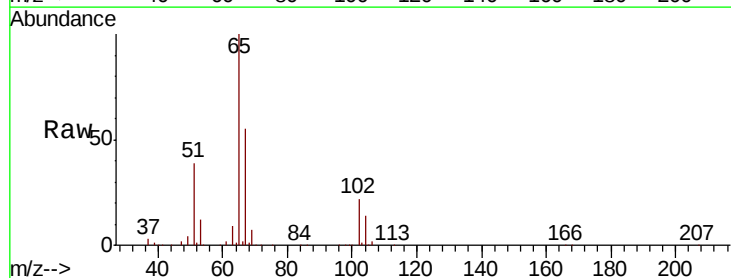
Acq: 01 Sep 2019 18:25

Tgt Ion: 65 Resp: 282208

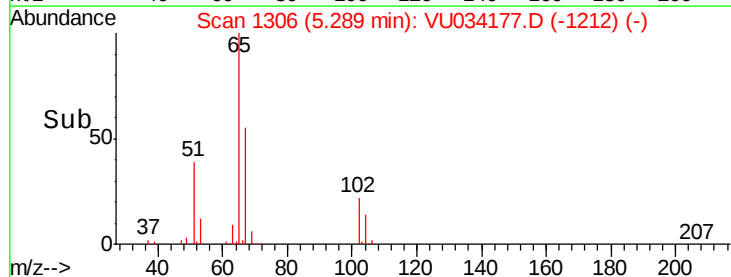
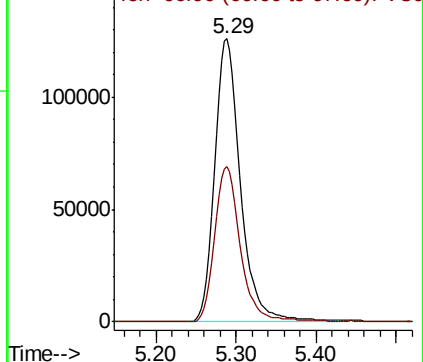
Ion Ratio Lower Upper

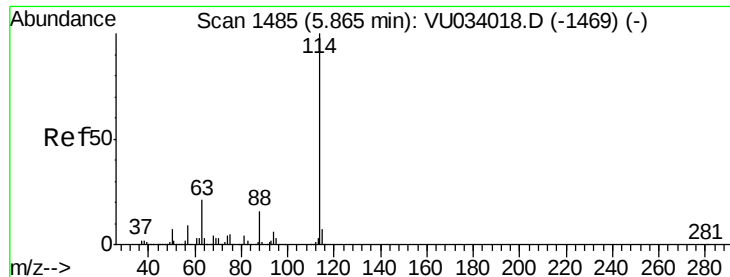
65 100

67 54.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

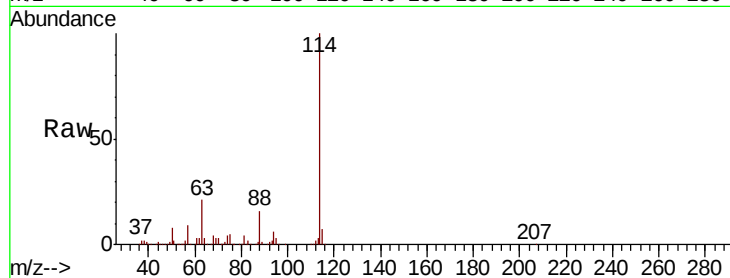




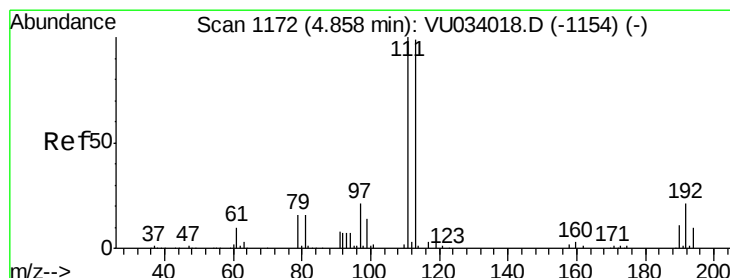
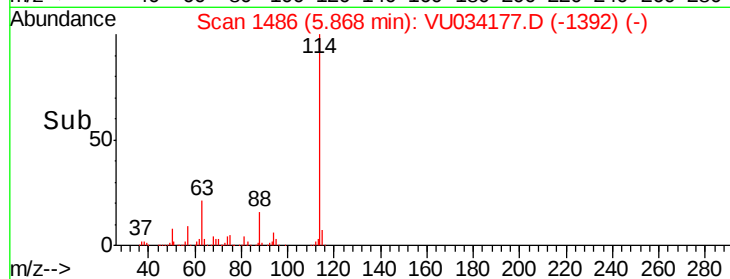
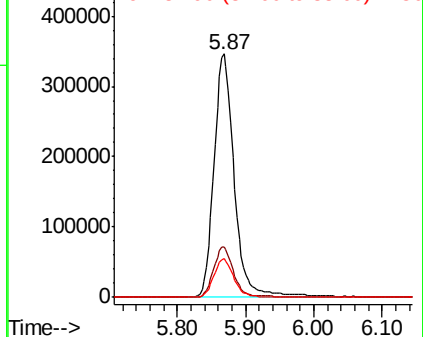
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034177.D
 Acq: 01 Sep 2019 18:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 716702
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.0
 88 15.8 0.0 32.0

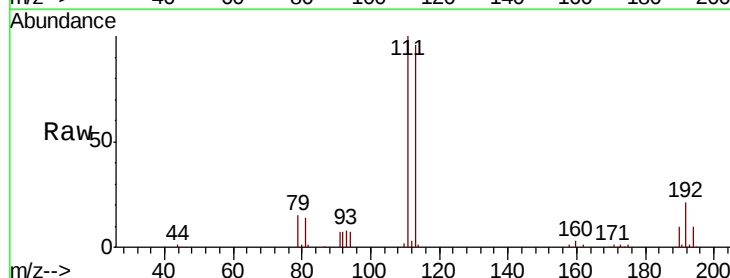


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

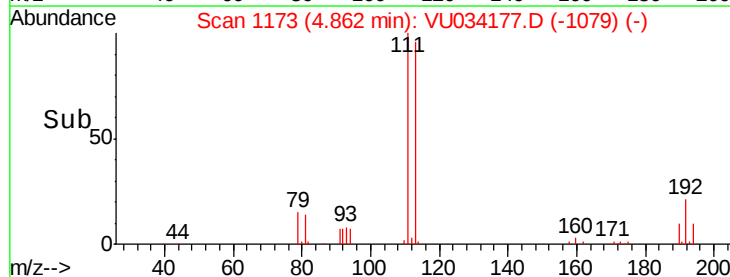
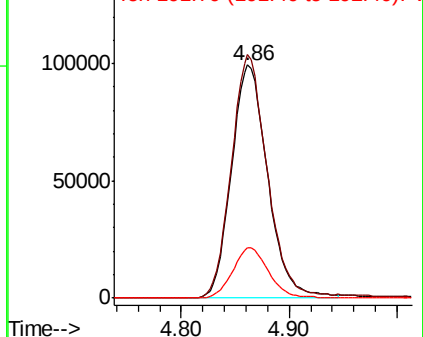


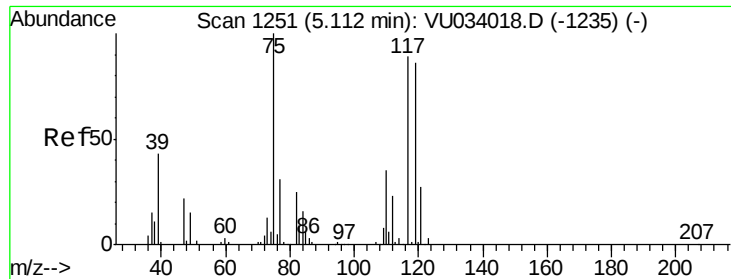
#35
 Dibromofluoromethane
 Concen: 46.910 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034177.D
 Acq: 01 Sep 2019 18:25

Tgt Ion:113 Resp: 233188
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.7 122.5
 192 21.3 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

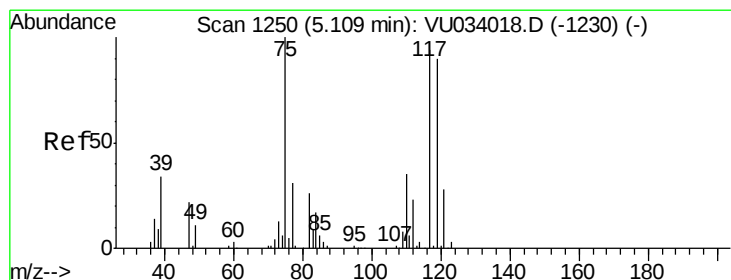
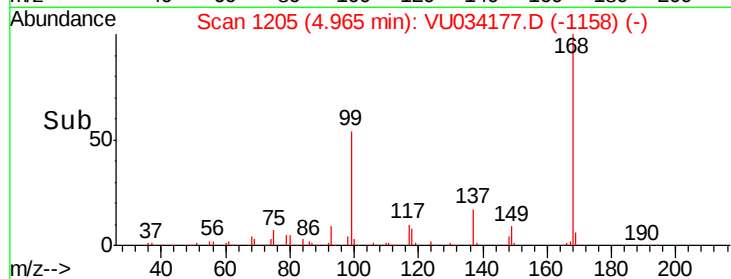
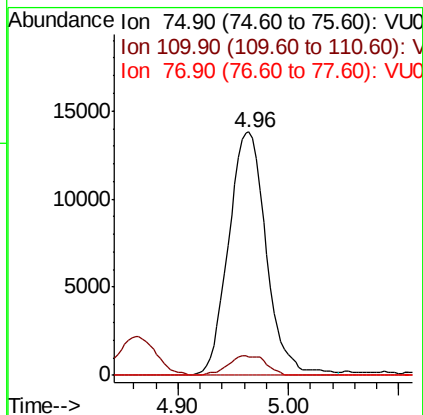
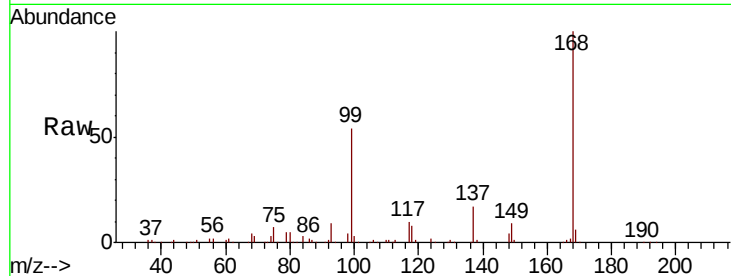




#36
 1,1-Dichloropropene
 Concen: 4.828 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034177.D
 Acq: 01 Sep 2019 18:25

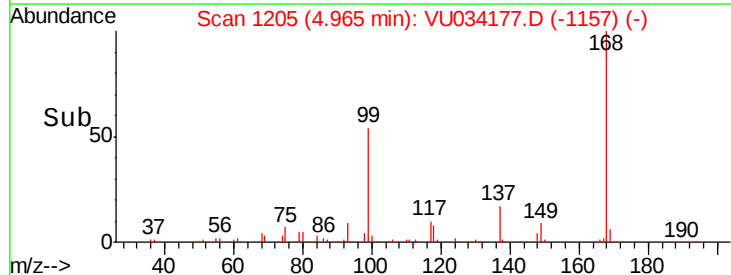
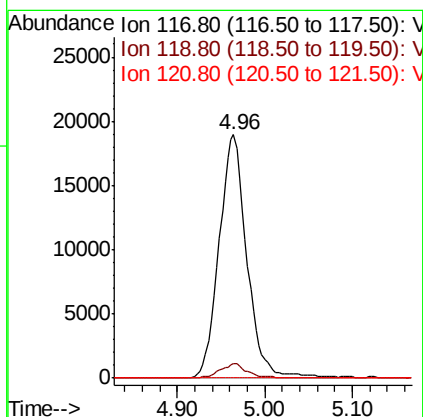
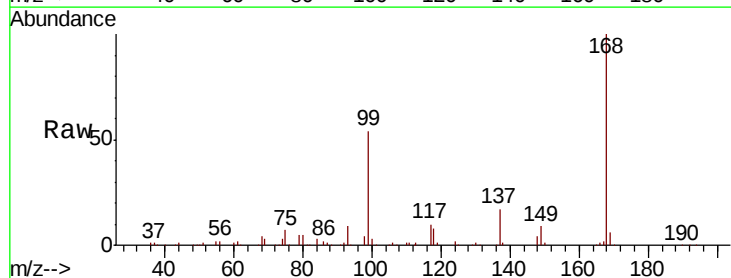
Instrument :
 MSVOA_U
 ClientSampled :

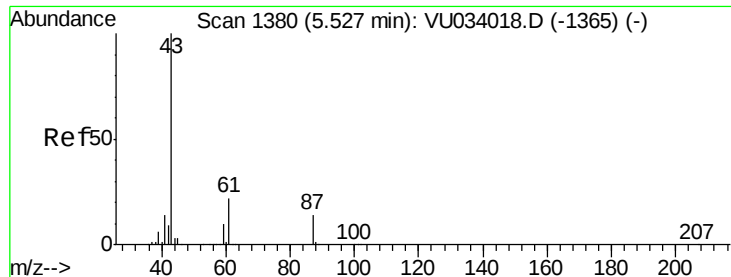
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.379 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034177.D
 Acq: 01 Sep 2019 18:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.0	115.4#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 5.443 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

Instrument :

MSVOA_U

ClientSampleId :

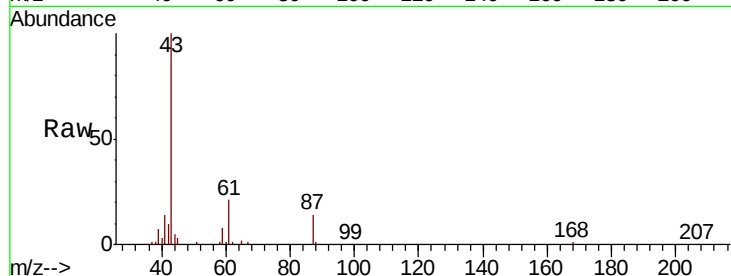
Tot Ion: 43 Resp: 62864

Ion Ratio Lower Upper

43 100

61 20.1 17.2 25.8

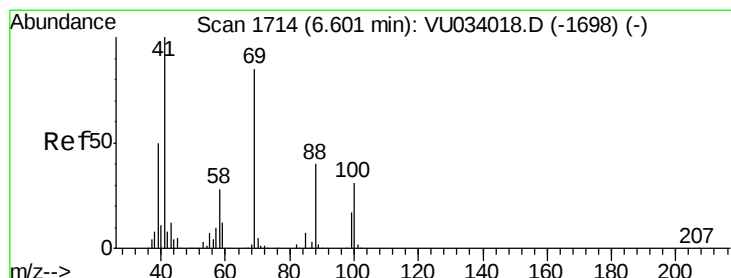
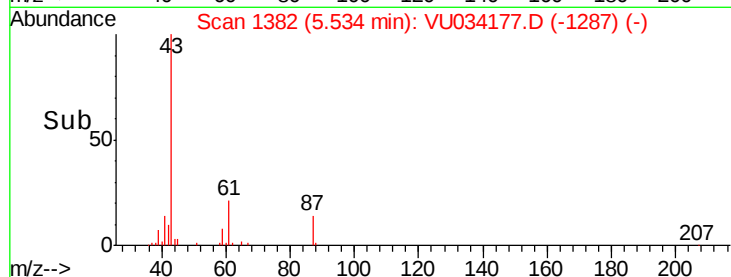
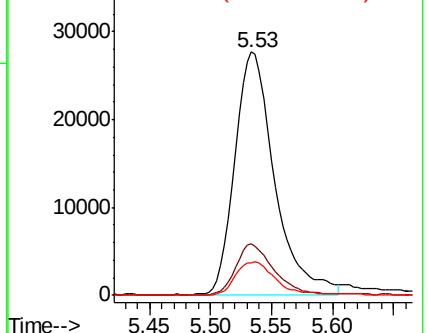
87 13.5 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034177.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034177.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034177.D (-1382) (-)



#48

Methyl methacrylate

Concen: 0.823 ug/l

RT: 6.53 min Scan# 1692

Delta R.T. -0.07 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

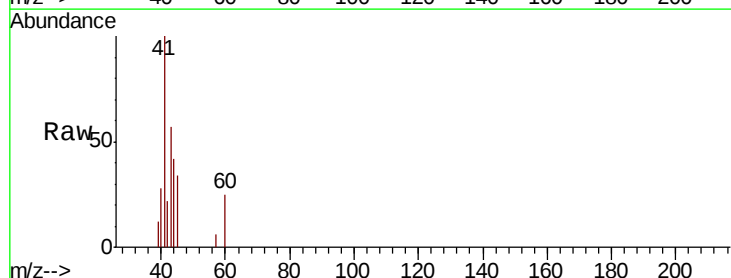
Tgt Ion: 41 Resp: 4584

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

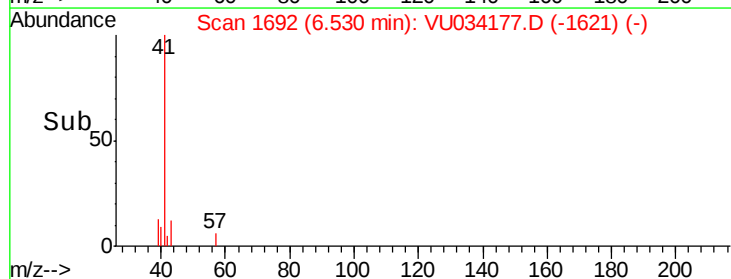
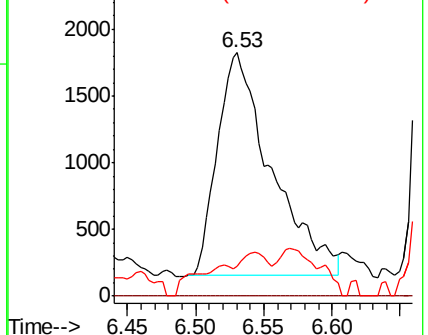
39 0.0 40.3 60.5#

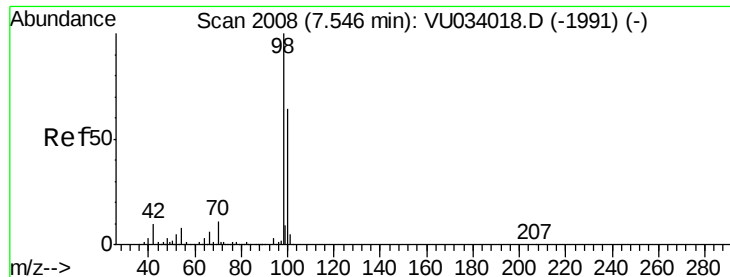


Abundance Ion 41.00 (40.70 to 41.70): VU034177.D (-1692) (-)

Ion 69.00 (68.70 to 69.70): VU034177.D (-1692) (-)

Ion 39.00 (38.70 to 39.70): VU034177.D (-1692) (-)





#50

Toluene-d8

Concen: 49.634 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

Instrument :

MSVOA_U

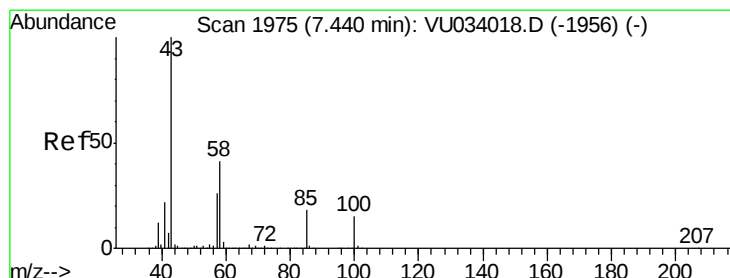
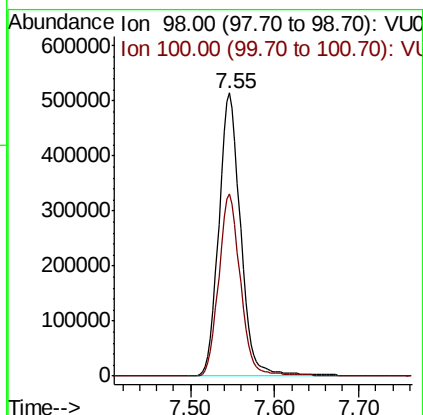
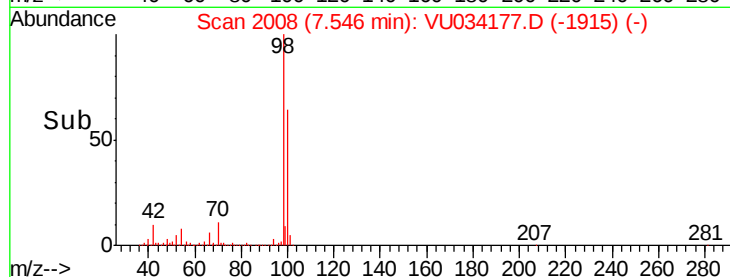
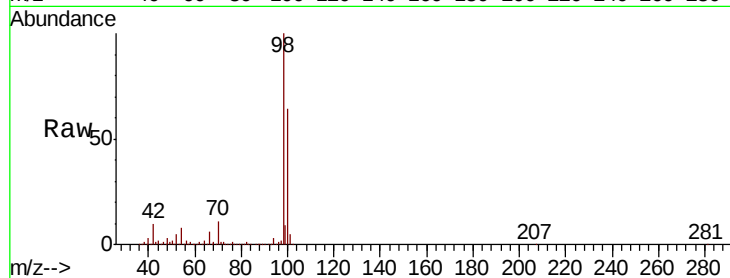
ClientSampled :

Tot Ion: 98 Resp: 923847

Ion Ratio Lower Upper

98 100

100 64.5 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 7.572 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034177.D

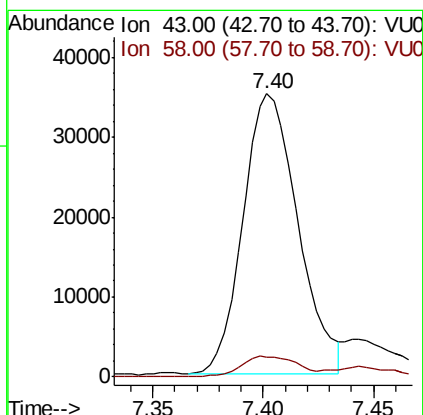
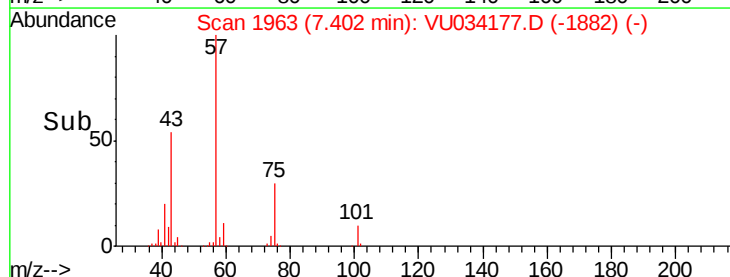
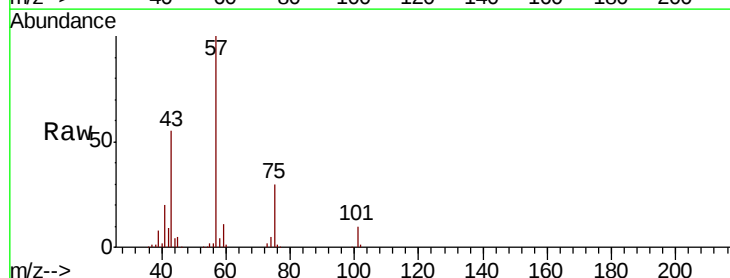
Acq: 01 Sep 2019 18:25

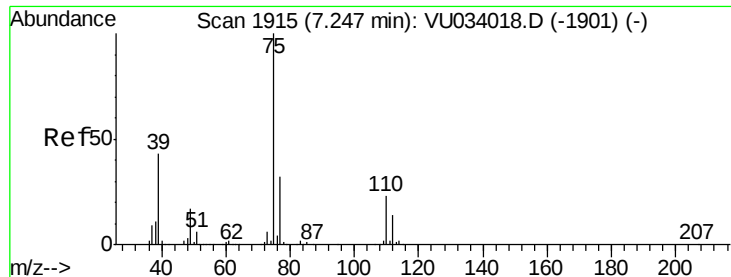
Tgt Ion: 43 Resp: 60392

Ion Ratio Lower Upper

43 100

58 7.6 32.2 48.4#



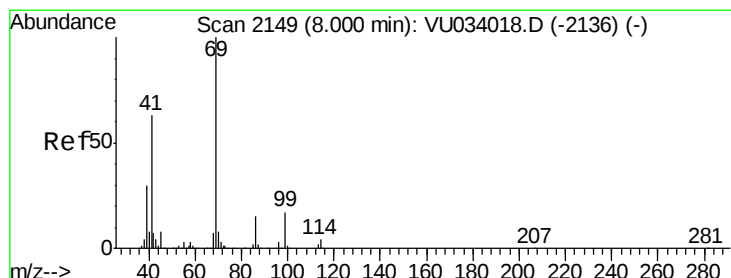
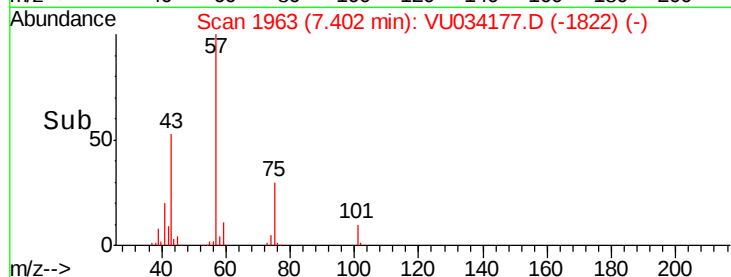
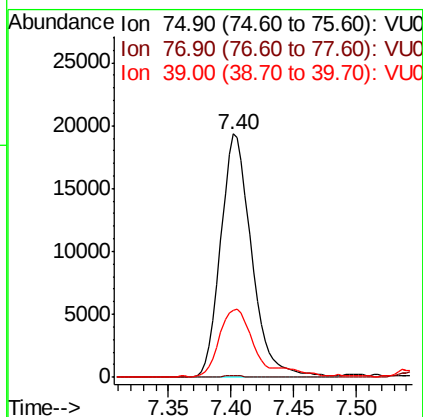
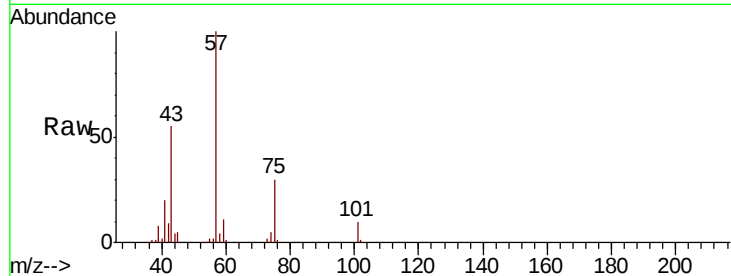


#54

cis-1,3-Dichloropropene
 Concen: 3.852 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034177.D
 Acq: 01 Sep 2019 18:25

Instrument :
 MSVOA_U
 ClientSampled :

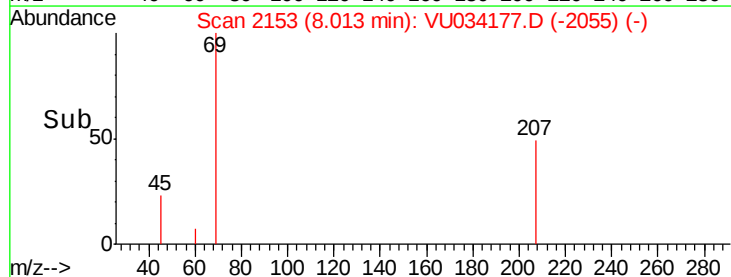
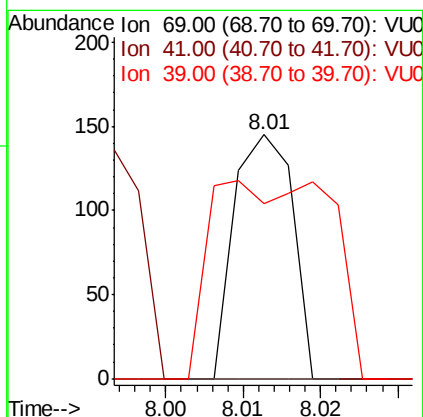
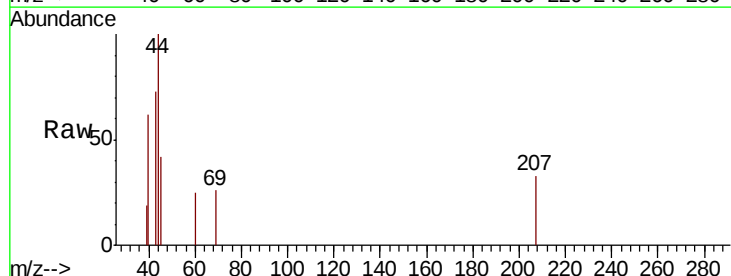
Tot Ion: 75 Resp: 33231
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 27.7 34.6 51.8#

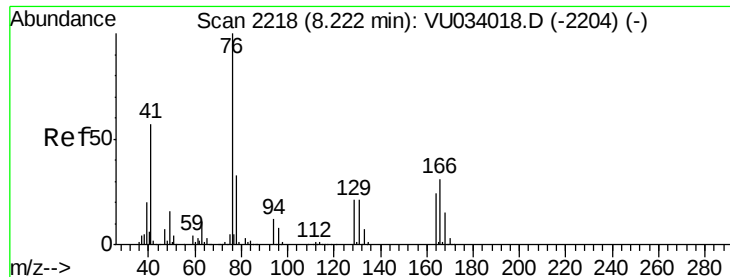


#56

Ethyl methacrylate
 Concen: 0.980 ug/l
 RT: 8.01 min Scan# 2153
 Delta R.T. 0.01 min
 Lab File: VU034177.D
 Acq: 01 Sep 2019 18:25

Tgt Ion: 69 Resp: 76
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#





#57

1,3-Dichloropropane

Concen: 0.463 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034177.D

Acq: 01 Sep 2019 18:25

Instrument :

MSVOA_U

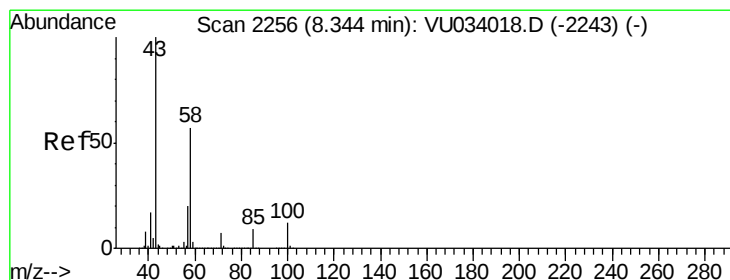
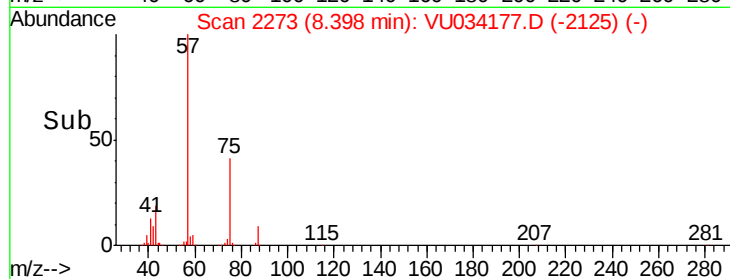
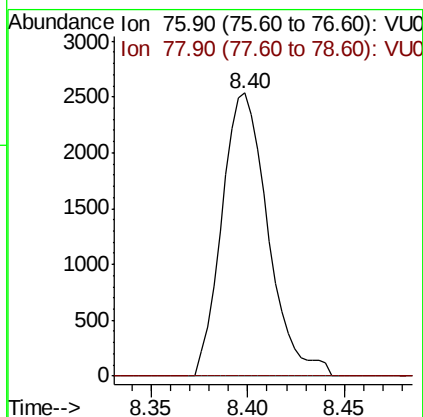
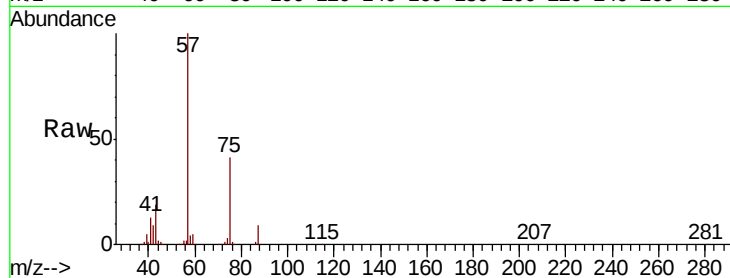
ClientSampleId :

Tot Ion: 76 Resp: 4202

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 9.040 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034177.D

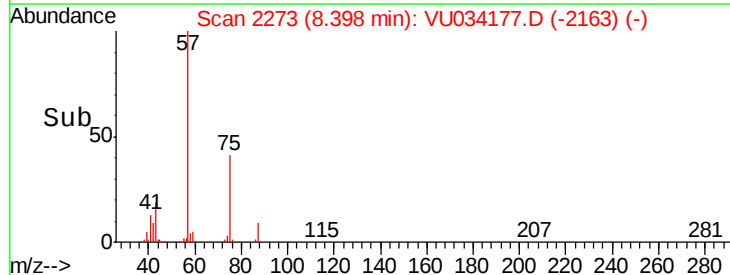
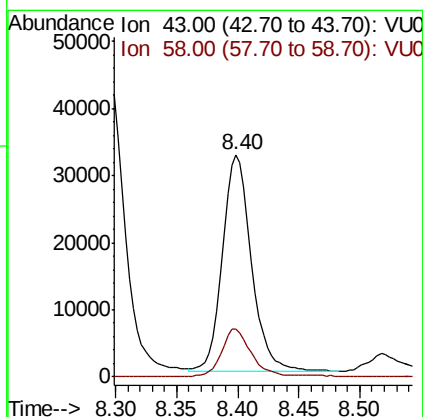
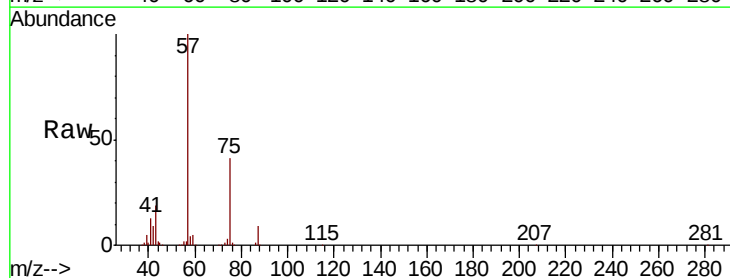
Acq: 01 Sep 2019 18:25

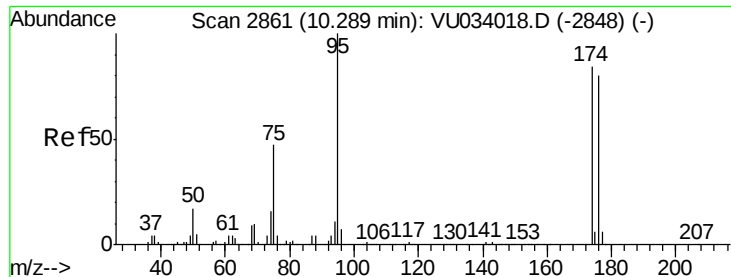
Tgt Ion: 43 Resp: 54430

Ion Ratio Lower Upper

43 100

58 23.4 28.4 85.3#

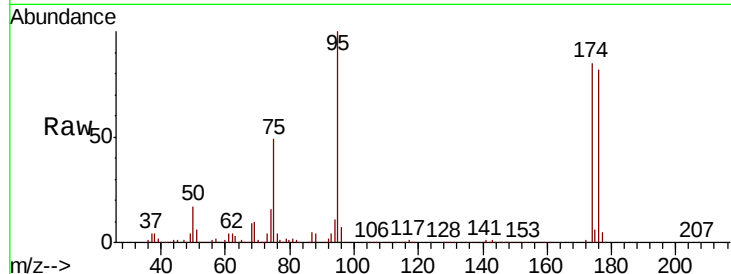




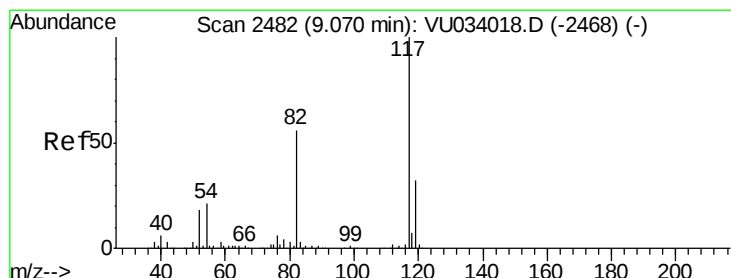
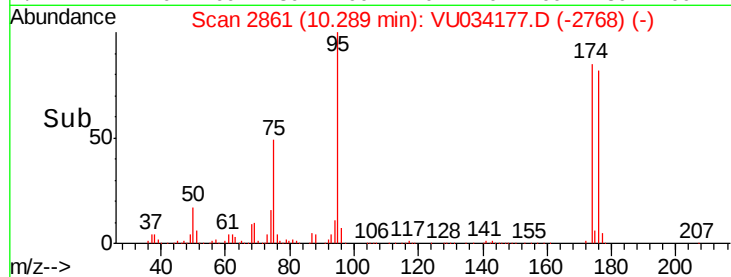
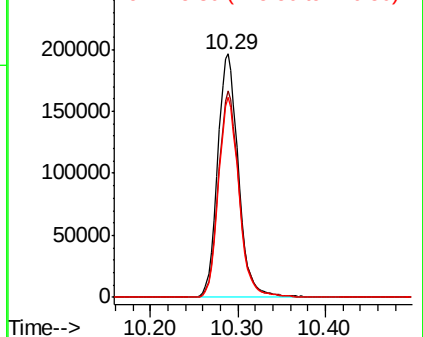
#62
4-Bromofluorobenzene
Concen: 44.705 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	168.8
176	80.8	0.0	161.8

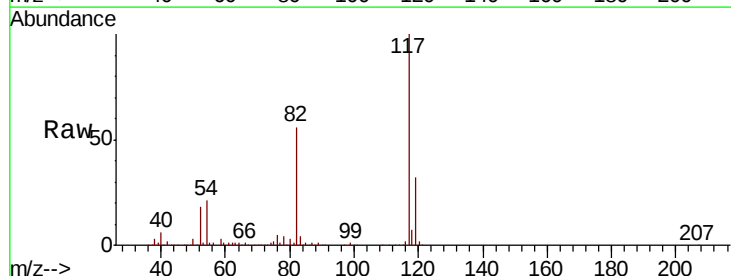


Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)
Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)
Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)

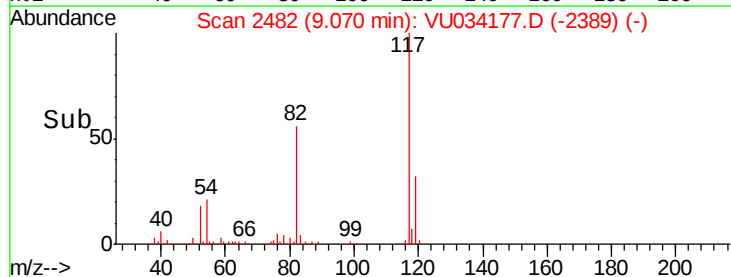
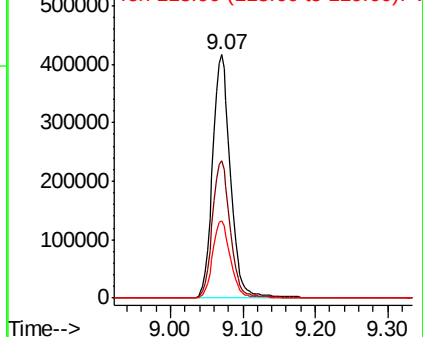


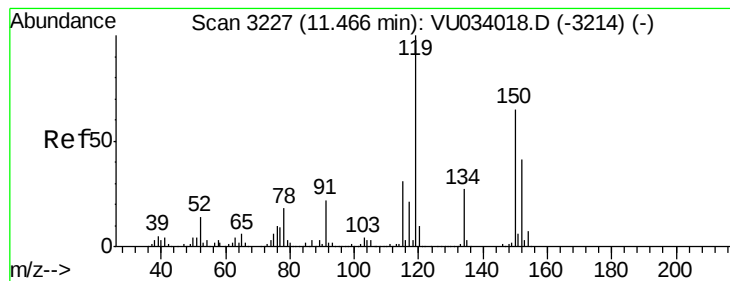
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.1	67.7
119	31.6	25.4	38.0



Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)
Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)
Ion 118.90 (118.60 to 119.60): VU034018.D (-2468) (-)



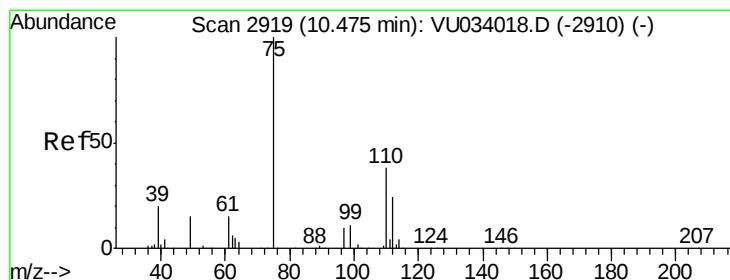
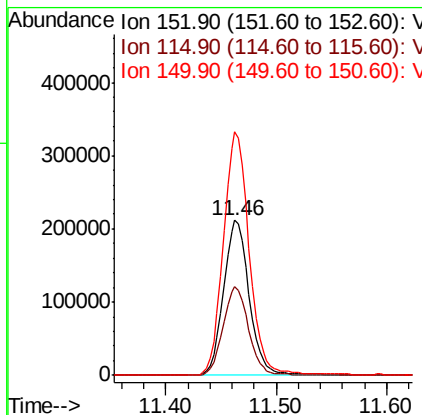
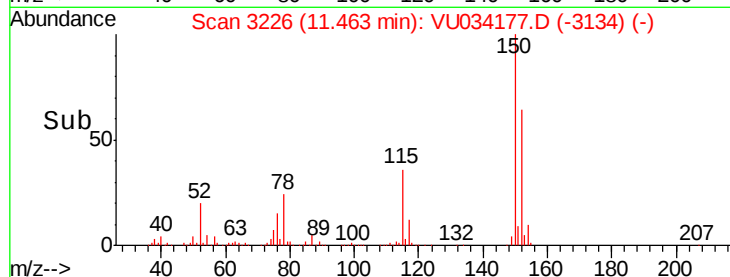
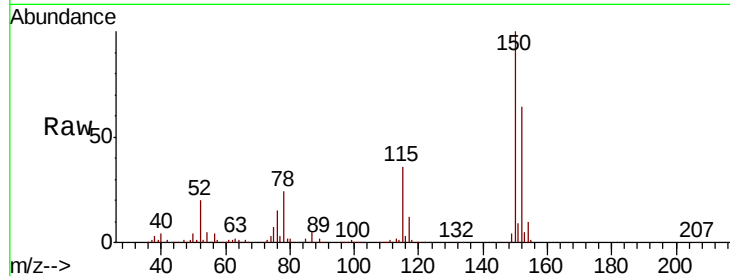


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Instrument :
MSVOA_U
ClientSampled :

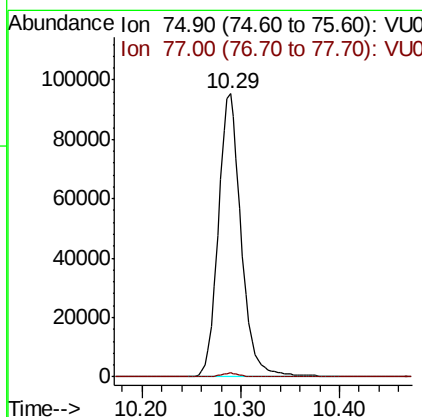
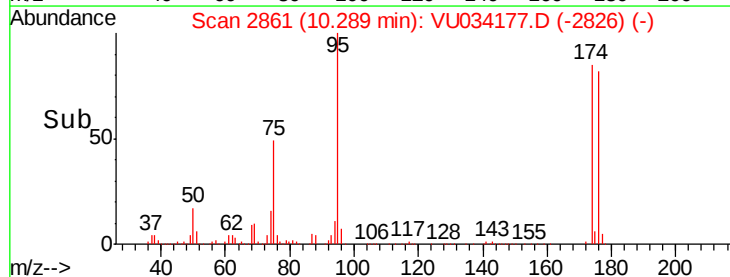
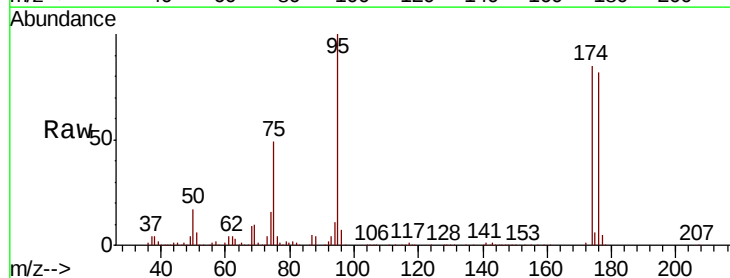
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.9	41.1	123.3
150	158.5	0.0	348.8

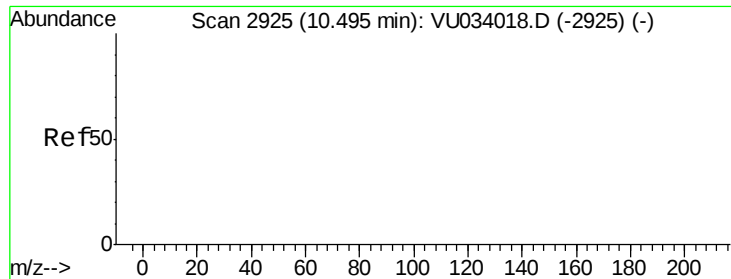


#76

1,2,3-Trichloropropane
Concen: 20.092 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	20.1	60.2

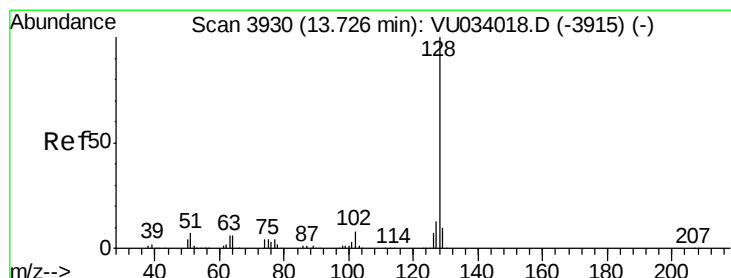
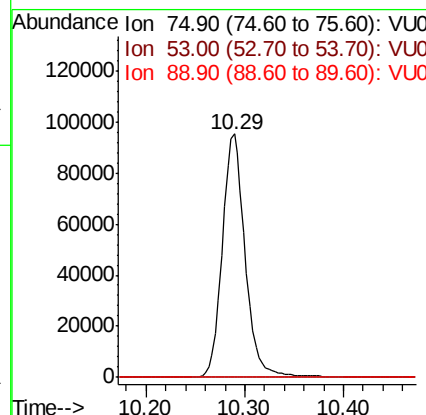
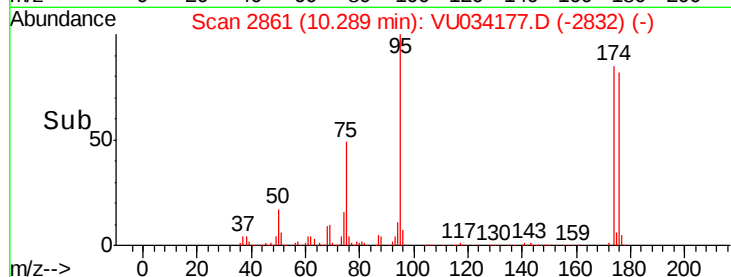
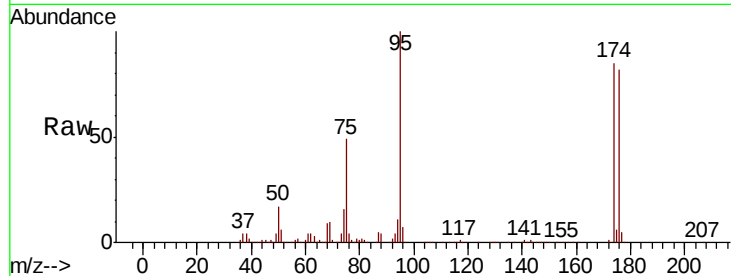




#81
trans-1,4-Dichloro-2-butene
Concen: 67.655 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 155029
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.792 ug/l
RT: 13.80 min Scan# 3954
Delta R.T. 0.08 min
Lab File: VU034177.D
Acq: 01 Sep 2019 18:25

Tgt Ion: 128 Resp: 42
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.4 12.6#

