

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034175.D
 Acq On : 01 Sep 2019 17:39
 Operator : JC/SP
 Sample : K4527-26
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:34:30 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	432296	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	686338	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	700985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	341656	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	274349	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	4.86	113	230420	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
50) Toluene-d8	7.55	98	918771	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	10.29	95	320470	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	

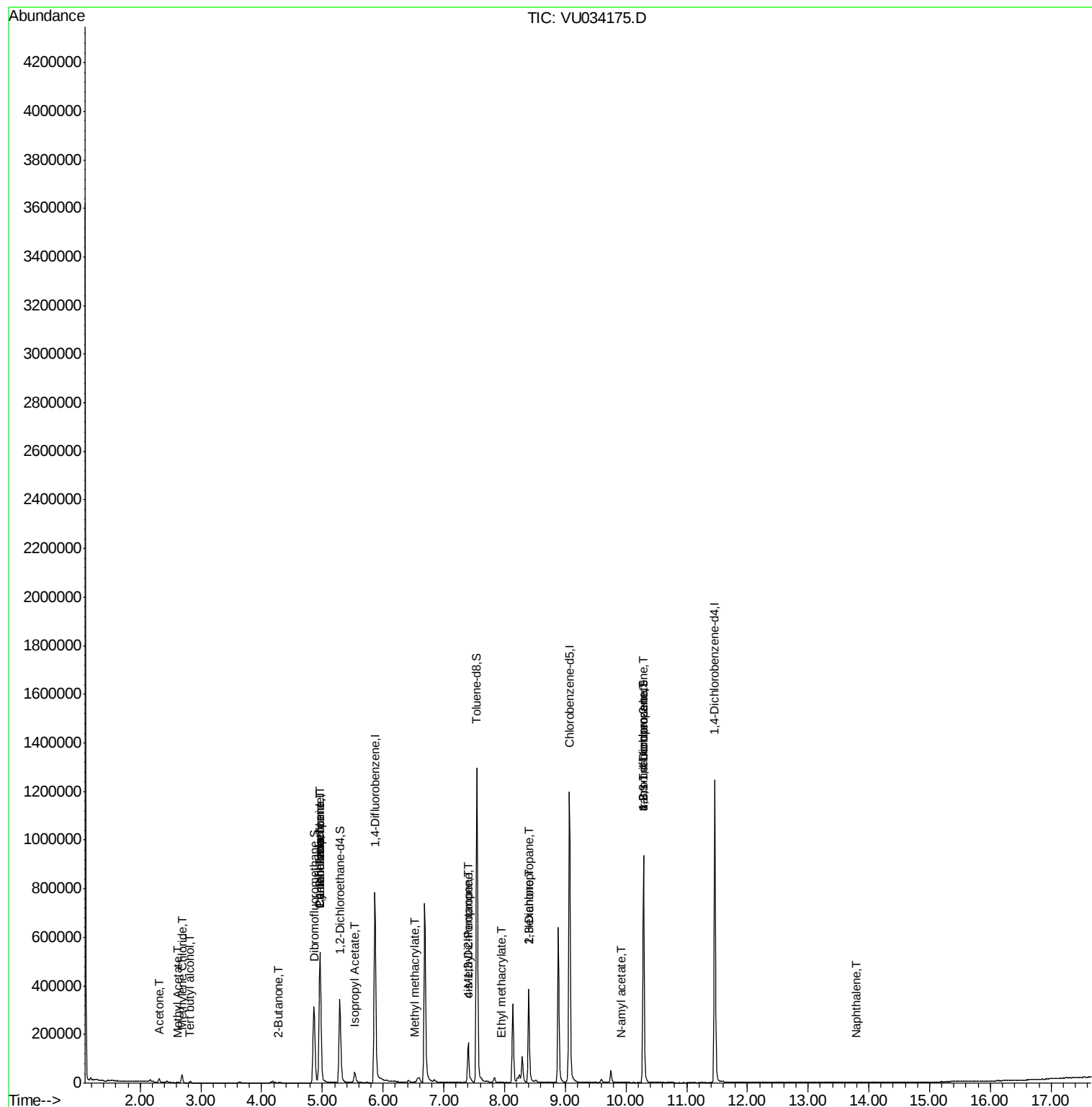
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	442	Below Cal	#	71
5) Bromomethane	1.59	94	39	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	2983	2.335	ug/l #	73
16) Acetone	2.31	43	17369	6.145	ug/l	98
18) Methyl Acetate	2.61	43	3006	0.412	ug/l #	81
20) Methylene Chloride	2.69	84	14503	2.711	ug/l	93
25) 2-Butanone	4.28	43	1001	0.255	ug/l #	48
31) Cyclohexane	4.96	56	7892	0.954	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31532	4.857	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39216	6.258	ug/l #	16
43) Isopropyl Acetate	5.53	43	54924	4.966	ug/l	99
48) Methyl methacrylate	6.53	41	3784	0.709	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	58081	7.604	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	30509	3.693	ug/l #	63
56) Ethyl methacrylate	7.95	69	69	0.980	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	3851	0.443	ug/l #	42
59) 2-Hexanone	8.40	43	53960	9.358	ug/l #	54
74) N-amyl acetate	9.92	43	2713	0.281	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	155115	20.144	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	155115	67.830	ug/l #	100
95) Naphthalene	13.80	128	69	1.793	ug/l #	70

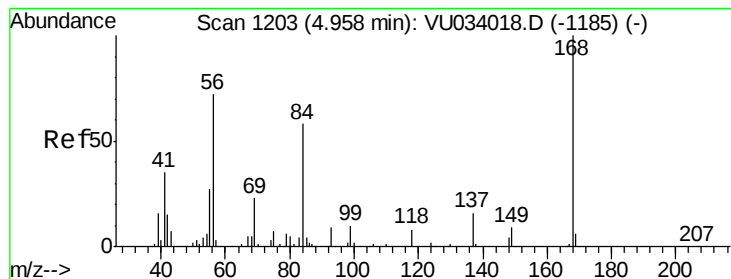
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

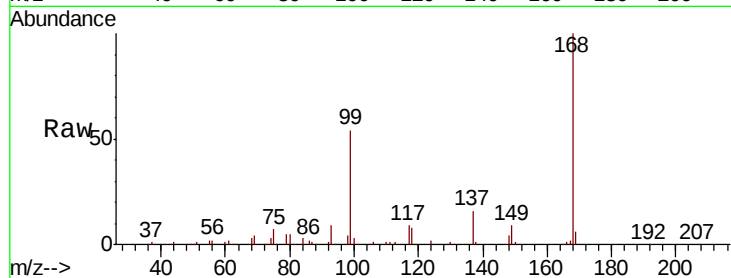
ClientSampleId :

Tot Ion:168 Resp: 432296

Ion Ratio Lower Upper

168 100

99 54.1 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

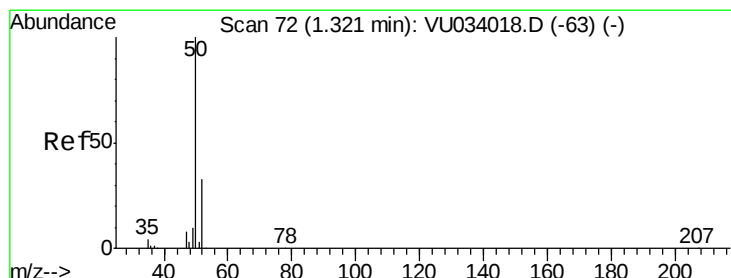
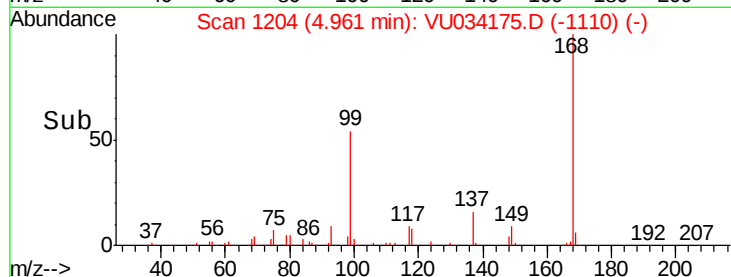
100000

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: VU034175.D

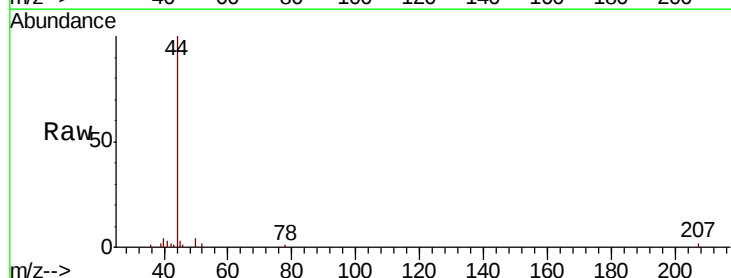
Acq: 01 Sep 2019 17:39

Tgt Ion: 50 Resp: 442

Ion Ratio Lower Upper

50 100

52 49.3 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

400

300

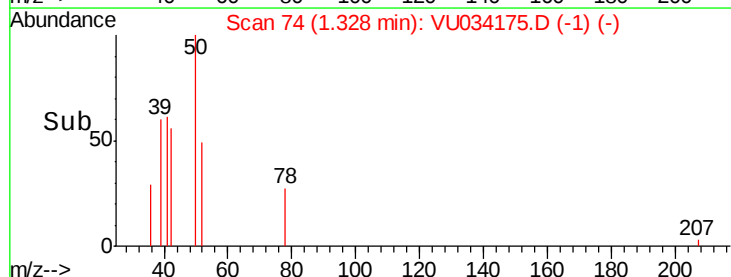
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 157

Delta R.T. -0.00 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

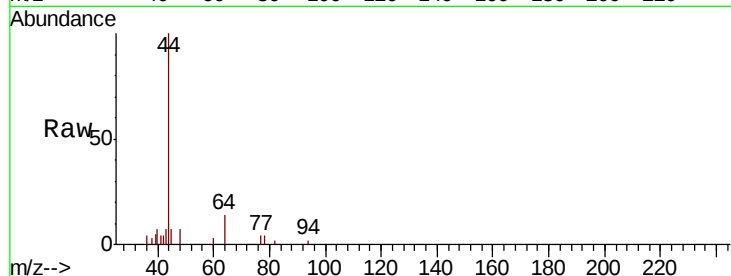
ClientSampleId :

Tot Ion: 94 Resp: 39

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.59

100

80

60

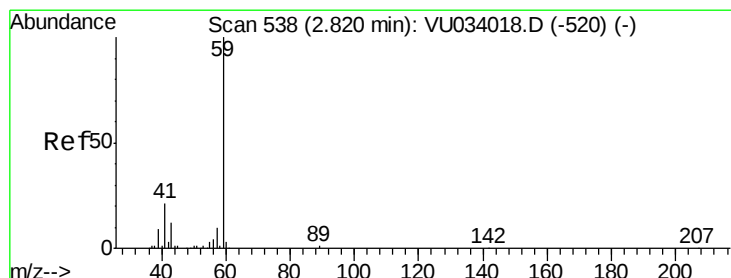
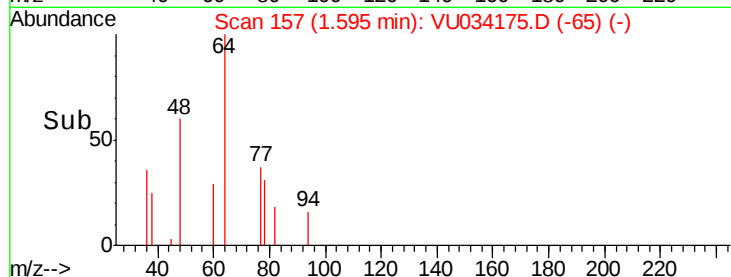
40

20

0

1.59 1.60 1.61

Time-->



#11

Tert butyl alcohol

Concen: 2.335 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034175.D

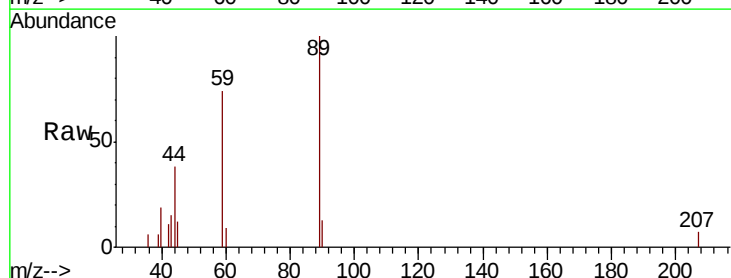
Acq: 01 Sep 2019 17:39

Tgt Ion: 59 Resp: 2983

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

2.82

1500

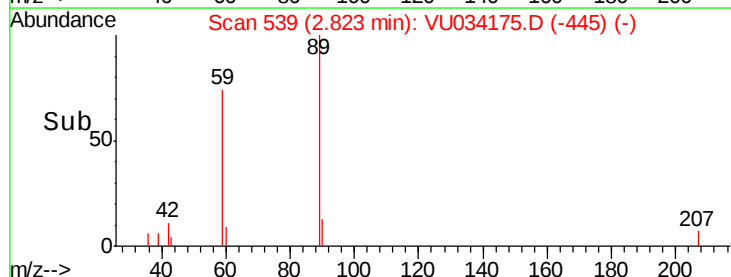
1000

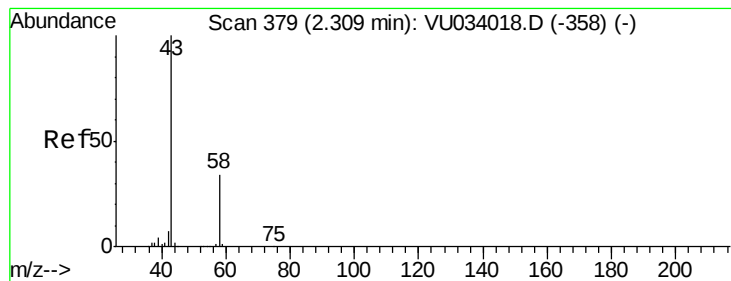
500

0

2.75 2.80 2.85

Time-->





#16

Acetone

Concen: 6.145 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

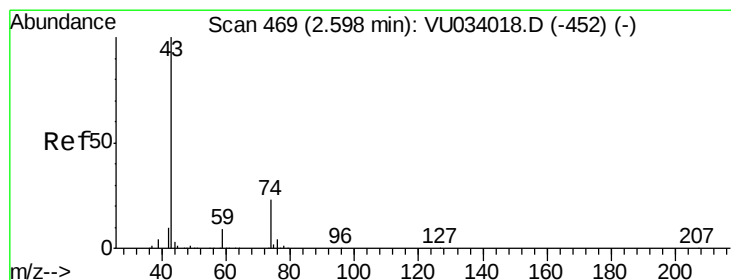
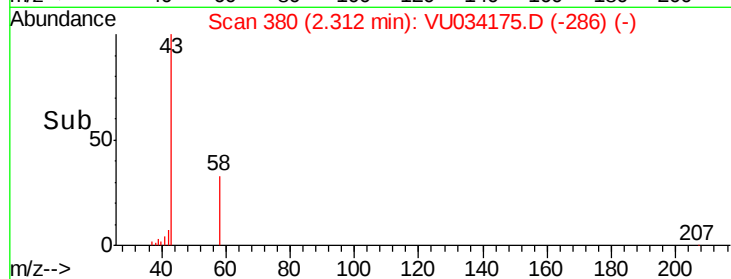
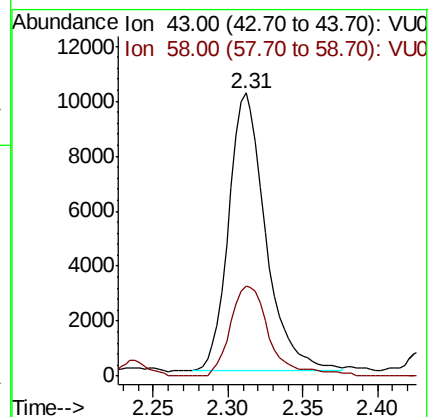
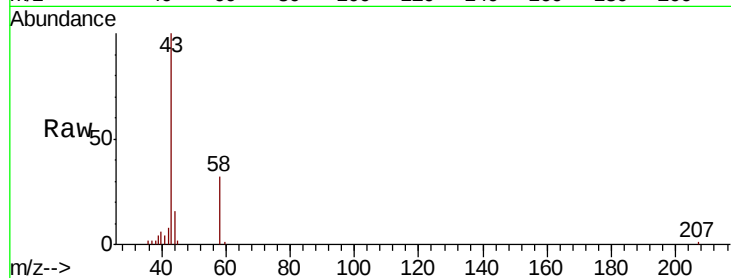
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 17369

Ion Ratio Lower Upper

43 100

58 32.3 26.8 40.2



#18

Methyl Acetate

Concen: 0.412 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034175.D

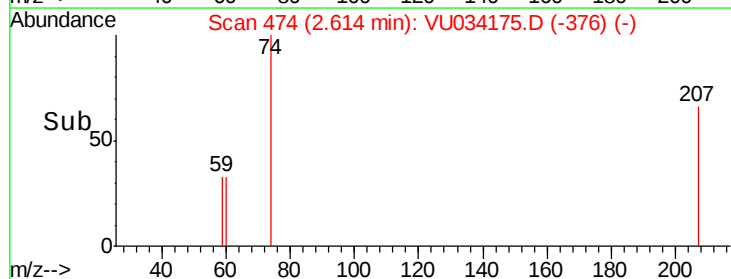
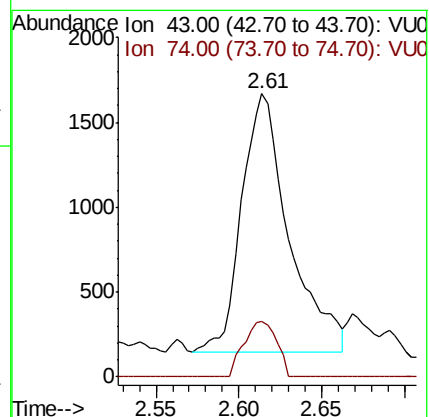
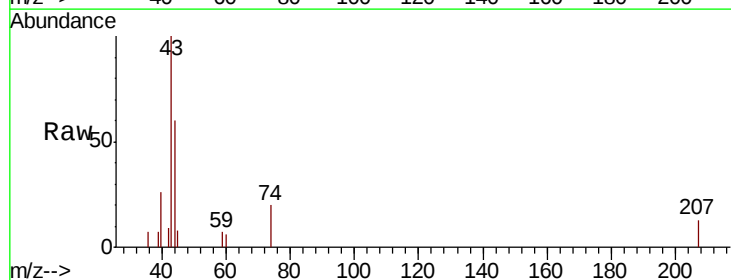
Acq: 01 Sep 2019 17:39

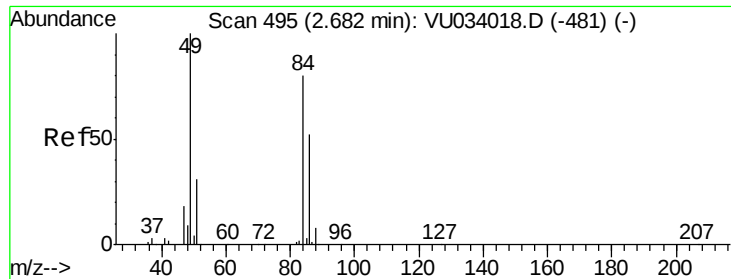
Tgt Ion: 43 Resp: 3006

Ion Ratio Lower Upper

43 100

74 14.9 19.2 28.8#





#20

Methylene Chloride

Concen: 2.711 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 14503

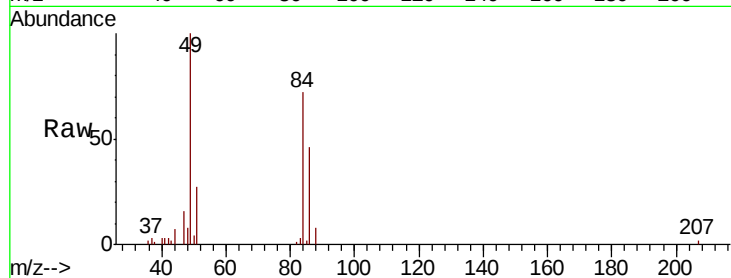
Ion Ratio Lower Upper

84 100

49 138.8 100.2 150.4

51 38.0 30.8 46.2

86 64.2 52.5 78.7

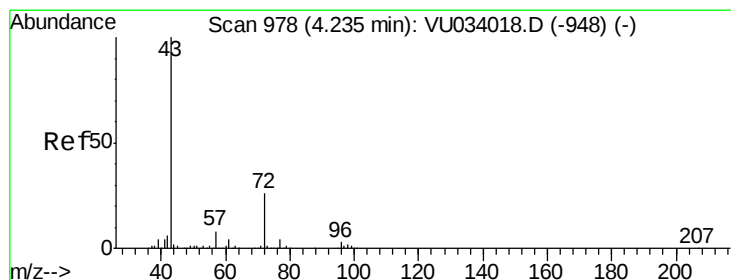
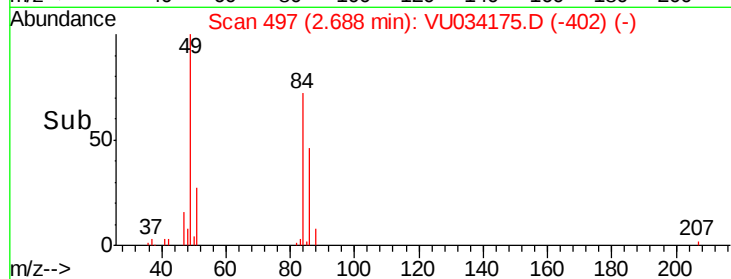
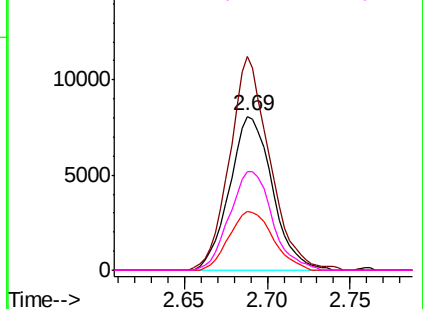


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 0.255 ug/l

RT: 4.28 min Scan# 992

Delta R.T. 0.04 min

Lab File: VU034175.D

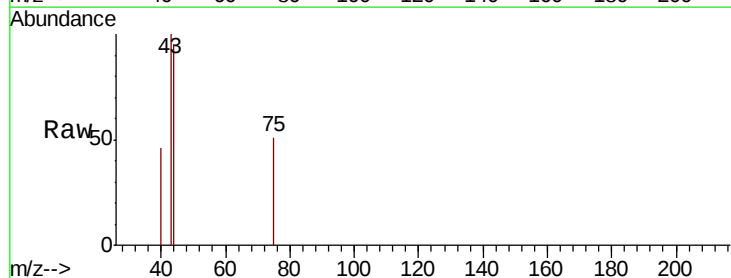
Acq: 01 Sep 2019 17:39

Tgt Ion: 43 Resp: 1001

Ion Ratio Lower Upper

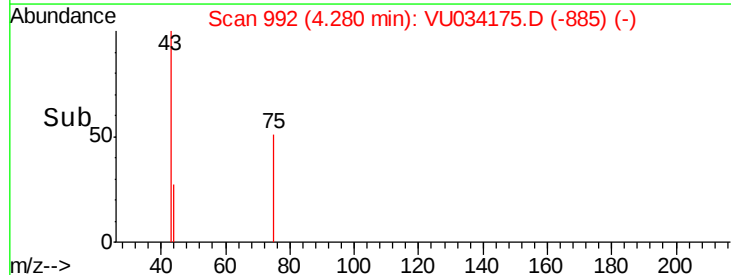
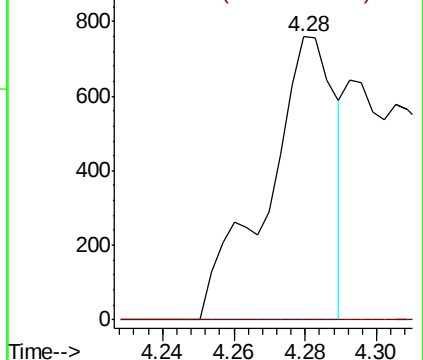
43 100

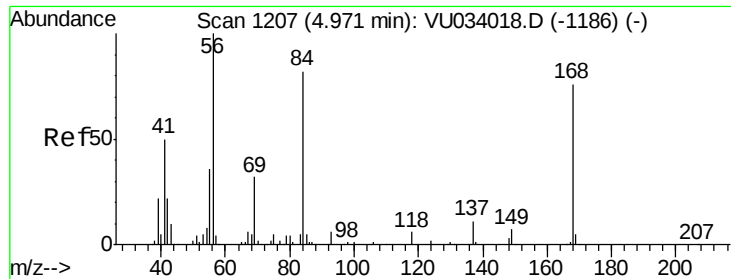
72 0.0 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#31

Cvclohexane

Concen: 0.954 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :
MSVOA_U
ClientSampled :

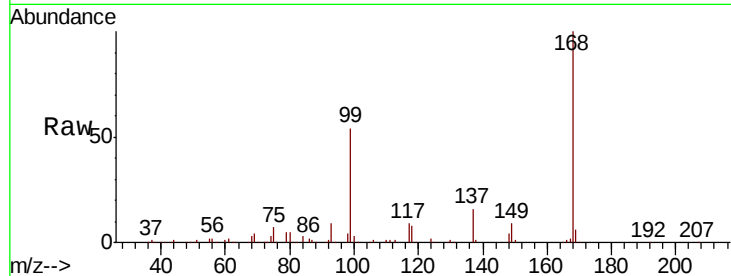
Tot Ion: 56 Resp: 7892

Ion Ratio Lower Upper

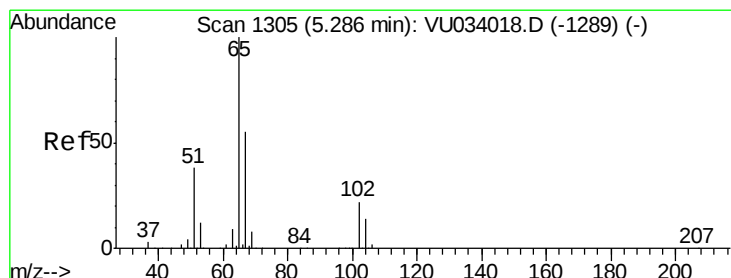
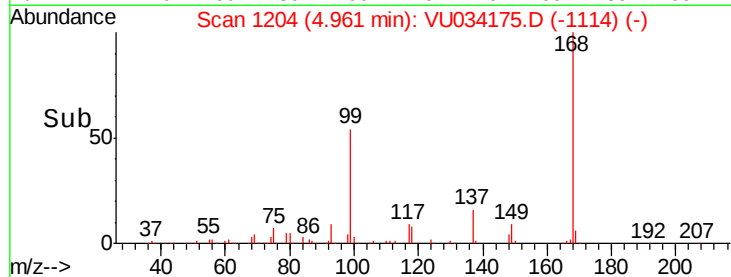
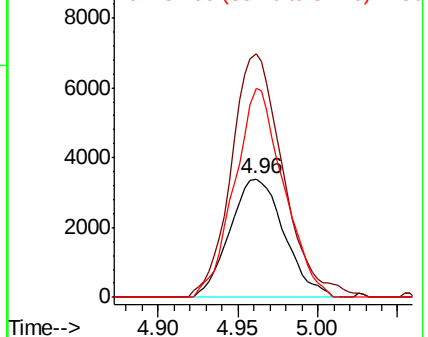
56 100

69 205.3 25.4 38.0#

84 176.4 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: 49.529 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034175.D

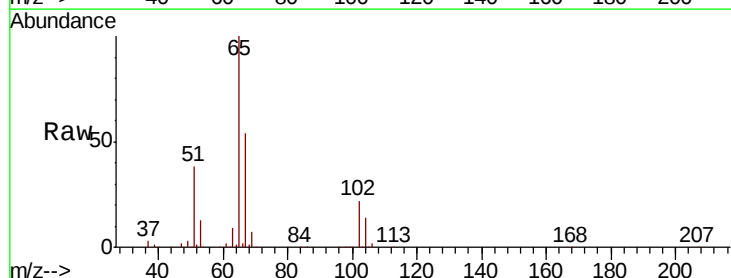
Acq: 01 Sep 2019 17:39

Tgt Ion: 65 Resp: 274349

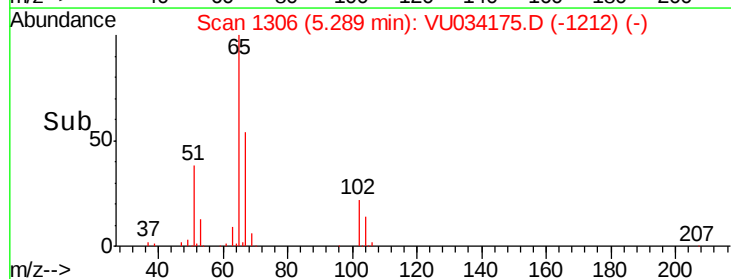
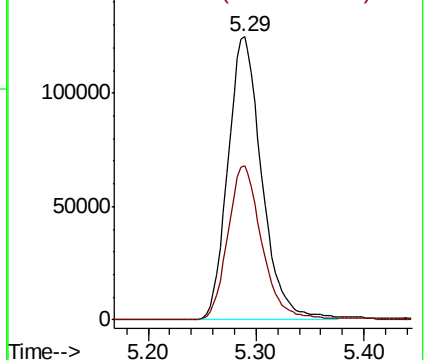
Ion Ratio Lower Upper

65 100

67 54.9 0.0 110.6



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

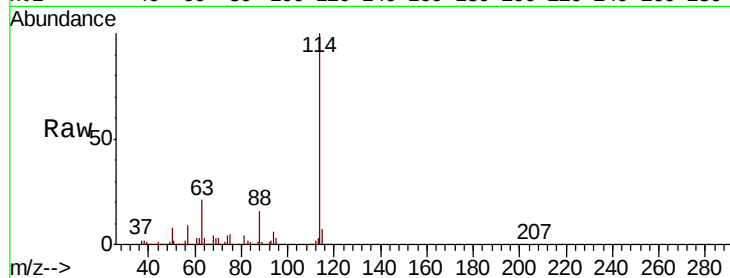




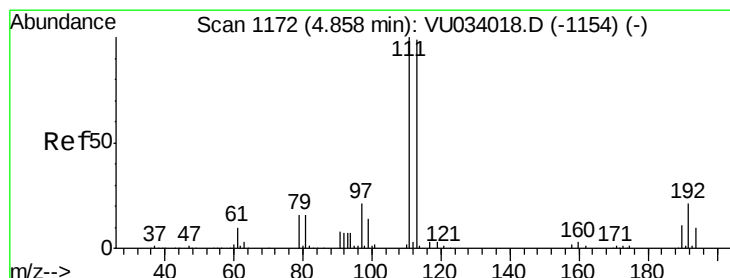
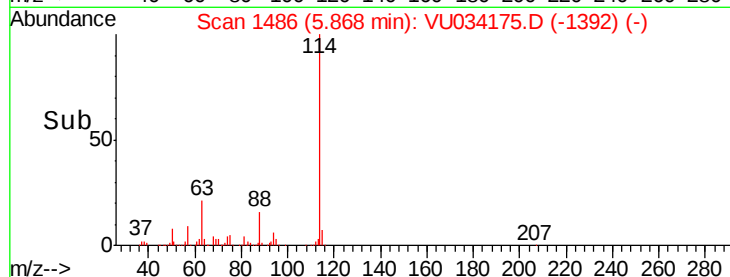
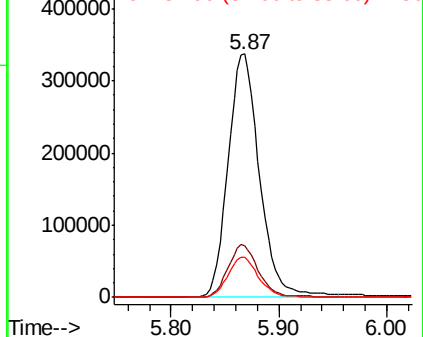
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.0
88	16.2	0.0	32.0

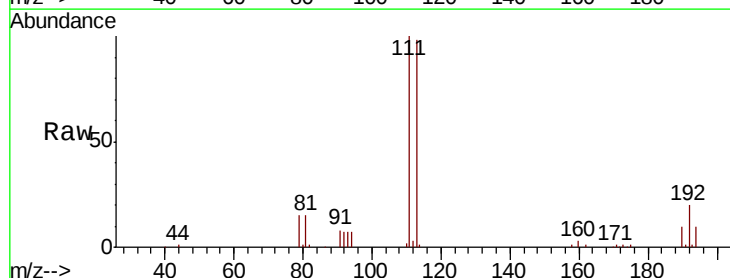


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

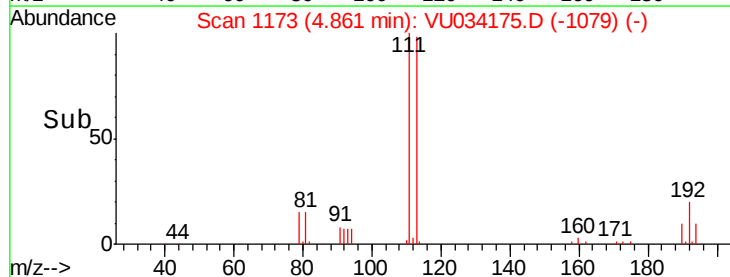
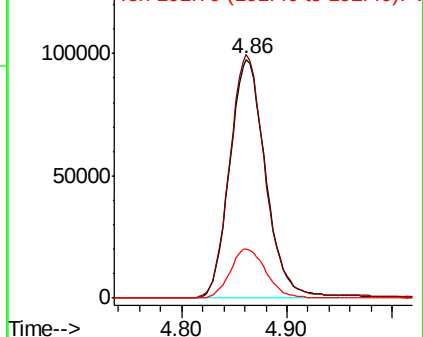


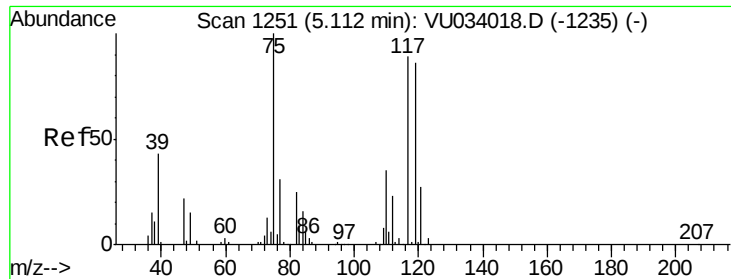
#35
 Dibromofluoromethane
 Concen: 48.404 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.7	122.5
192	20.8	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

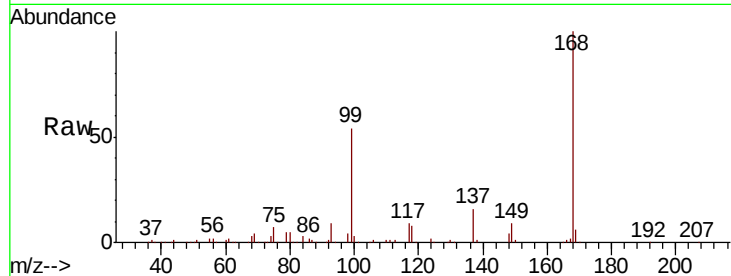




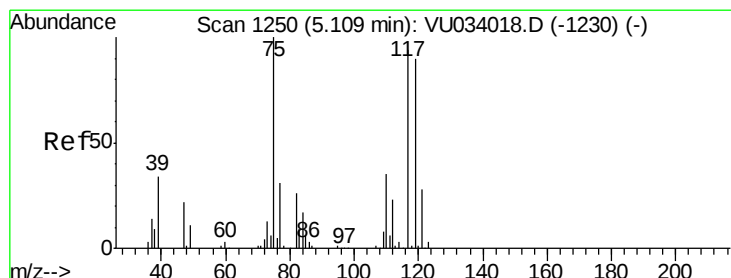
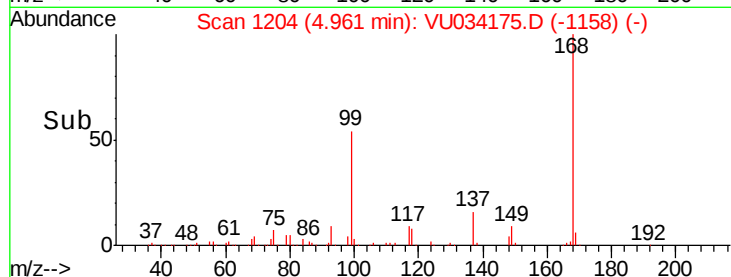
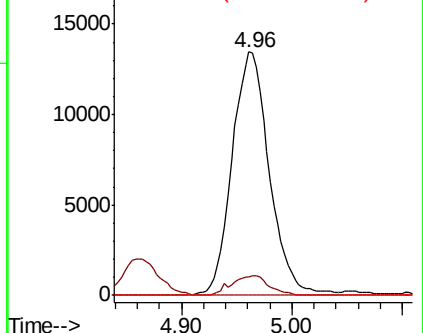
#36
 1,1-Dichloropropene
 Concen: 4.857 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.5#
77	0.0	25.0	37.4#

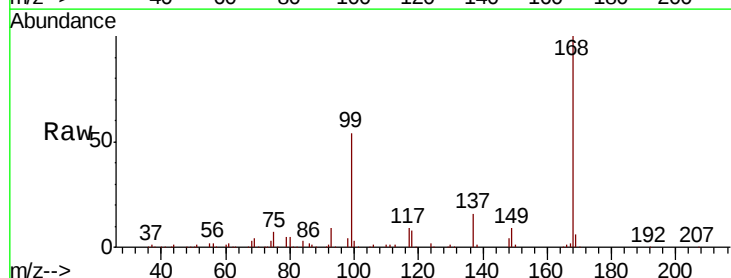


Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1235) (-)
 Ion 109.90 (109.60 to 110.60): VU034018.D (-1235) (-)
 Ion 76.90 (76.60 to 77.60): VU034018.D (-1235) (-)

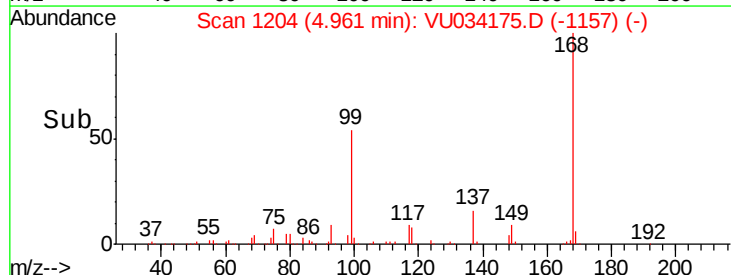
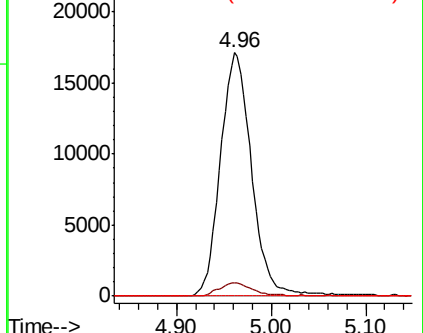


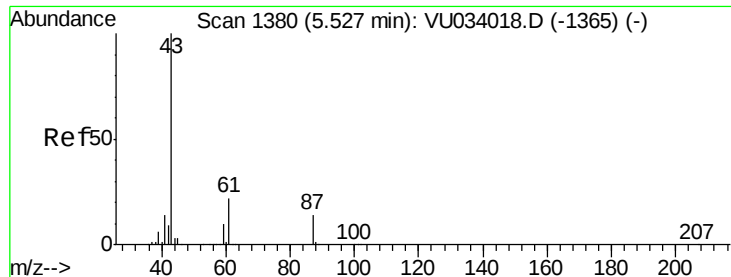
#38
 Carbon Tetrachloride
 Concen: 6.258 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	77.0	115.4#
121	0.0	23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): VU034018.D (-1230) (-)
 Ion 118.80 (118.50 to 119.50): VU034018.D (-1230) (-)
 Ion 120.80 (120.50 to 121.50): VU034018.D (-1230) (-)





#43

Isopropyl Acetate

Concen: 4.966 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

ClientSampleId :

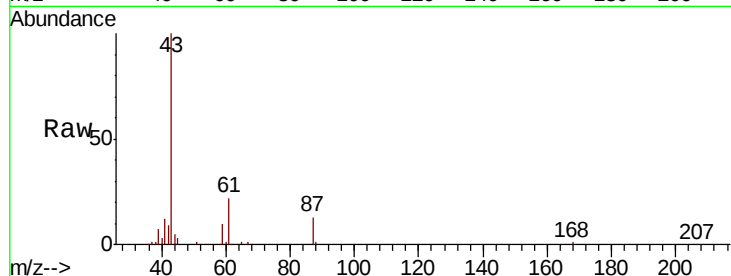
Tot Ion: 43 Resp: 54924

Ion Ratio Lower Upper

43 100

61 21.1 17.2 25.8

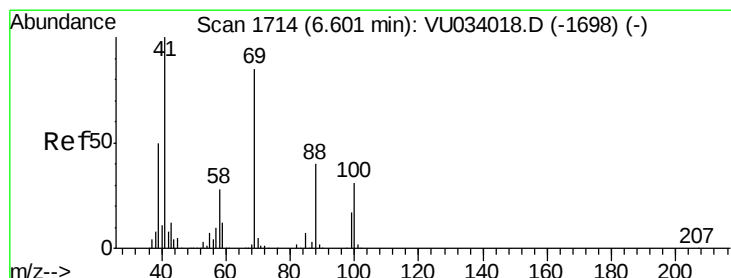
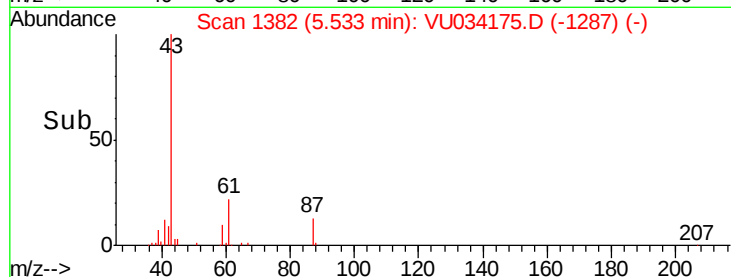
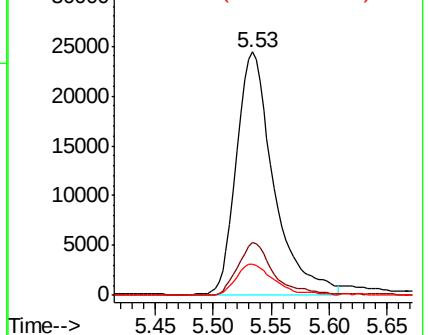
87 13.1 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034175.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034175.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034175.D (-1382) (-)



#48

Methyl methacrylate

Concen: 0.709 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

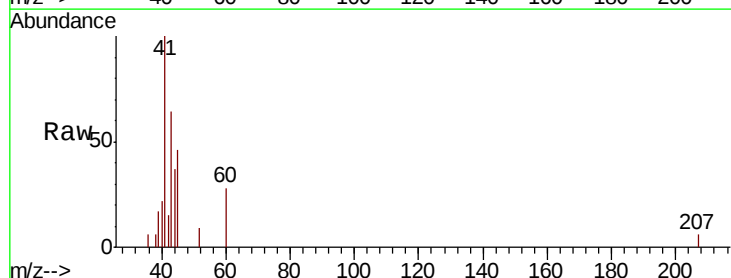
Tgt Ion: 41 Resp: 3784

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

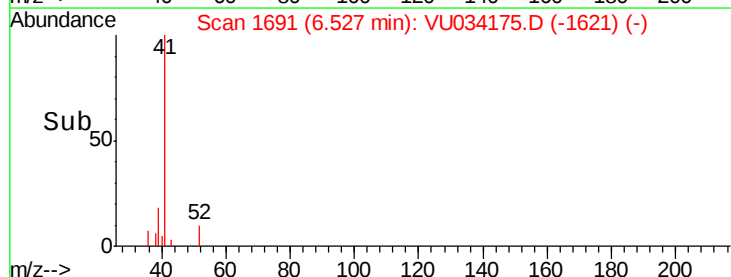
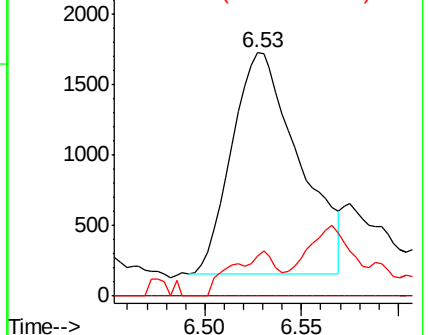
39 0.0 40.3 60.5#

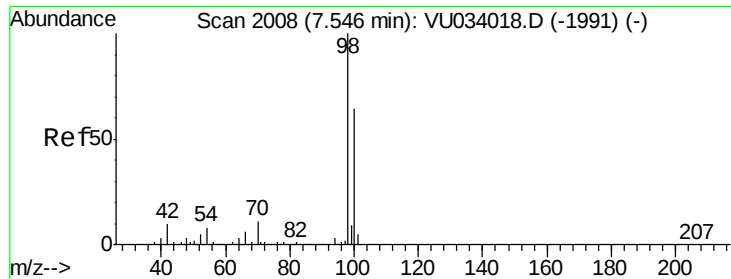


Abundance Ion 41.00 (40.70 to 41.70): VU034175.D (-1691) (-)

Ion 69.00 (68.70 to 69.70): VU034175.D (-1691) (-)

Ion 39.00 (38.70 to 39.70): VU034175.D (-1691) (-)

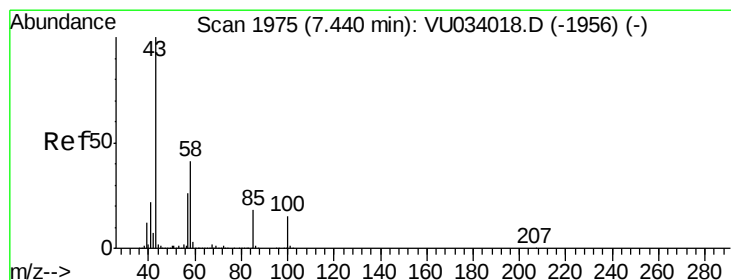
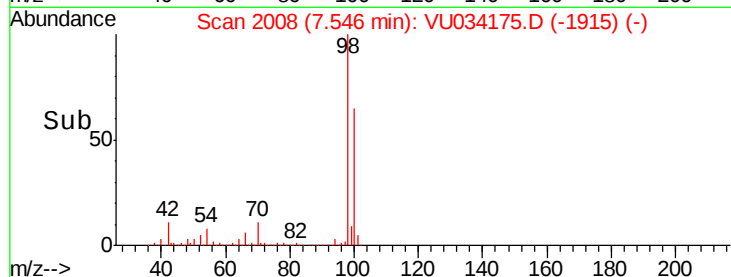
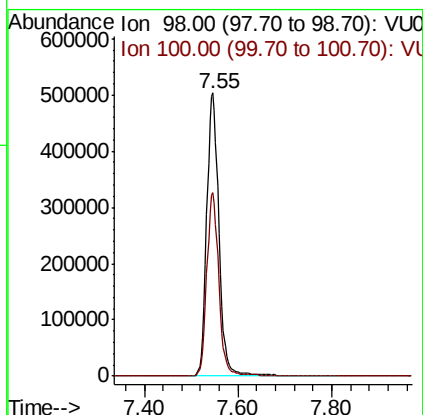
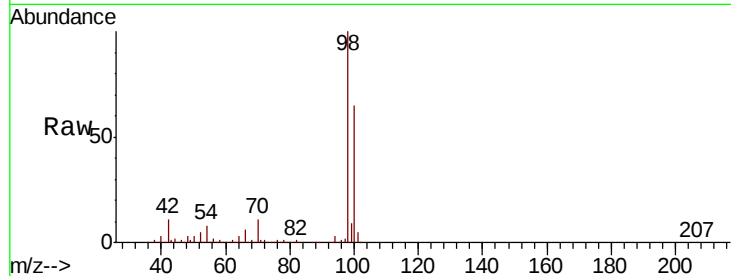




#50
Toluene-d8
Concen: 51.545 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034175.D
Acq: 01 Sep 2019 17:39

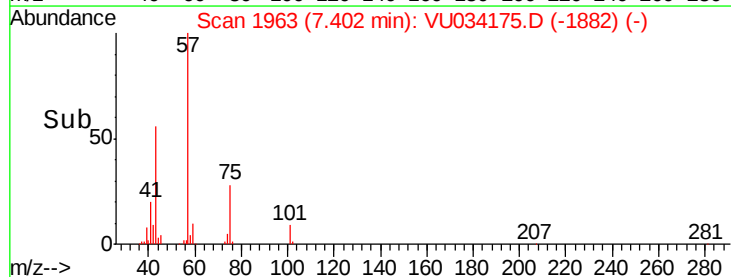
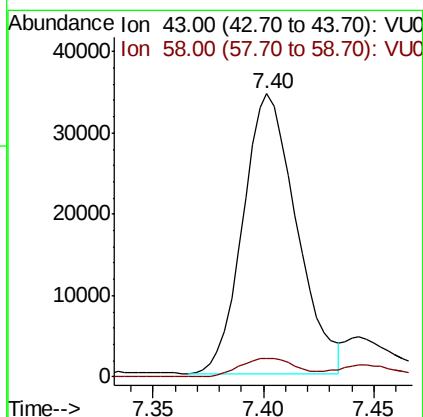
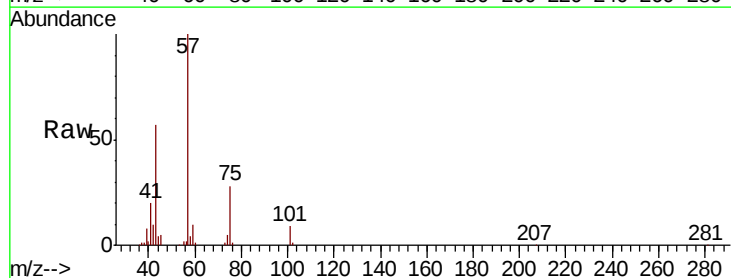
Instrument :
MSVOA_U
ClientSampleId :

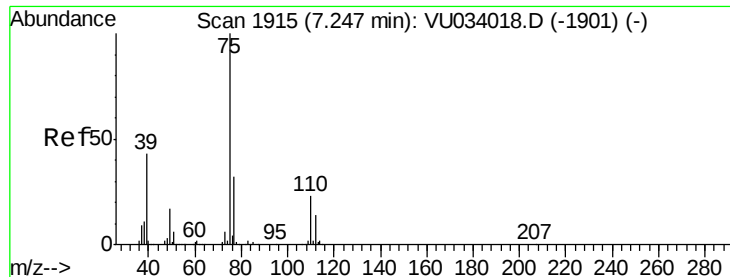
Tot Ion: 98 Resp: 918771
Ion Ratio Lower Upper
98 100
100 63.4 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 7.604 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034175.D
Acq: 01 Sep 2019 17:39

Tgt Ion: 43 Resp: 58081
Ion Ratio Lower Upper
43 100
58 6.9 32.2 48.4#



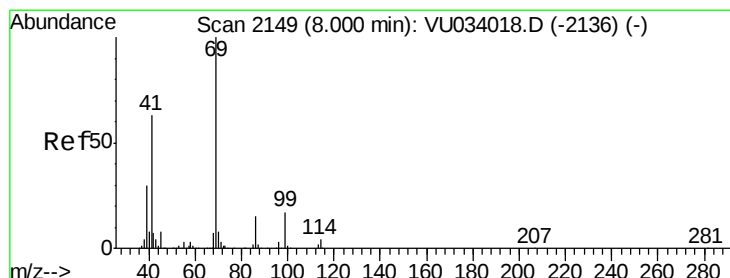
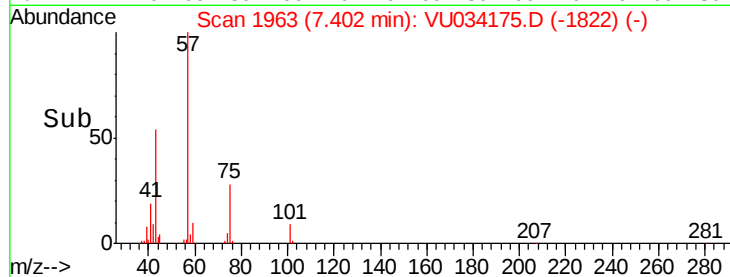
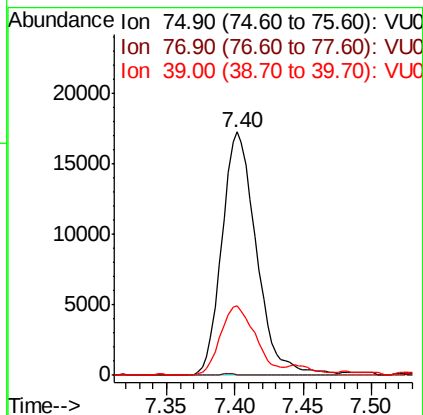
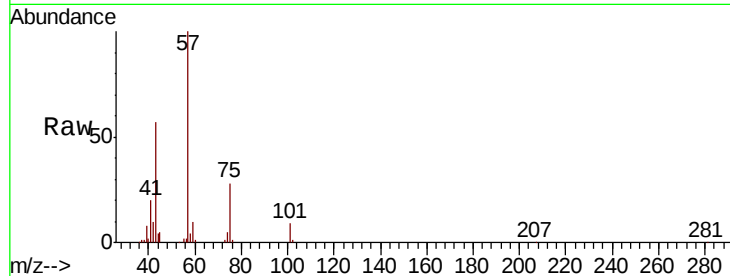


#54

cis-1,3-Dichloropropene
 Concen: 3.693 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Instrument :
 MSVOA_U
 ClientSampleId :

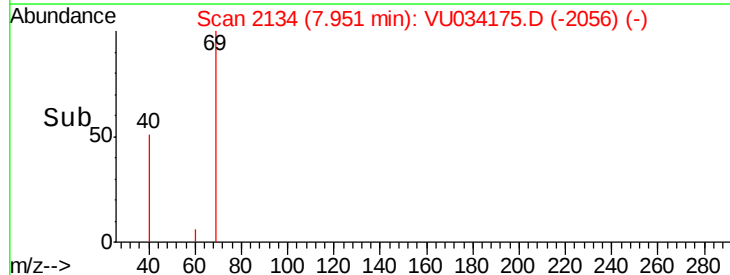
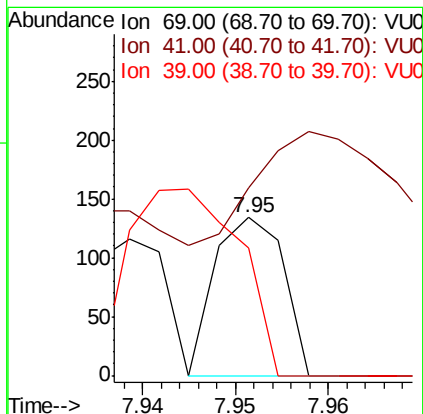
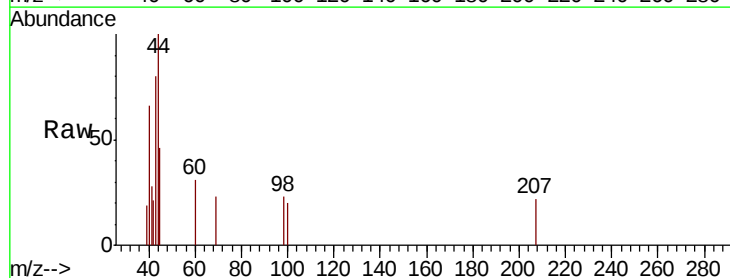
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.2	37.8#
39	28.4	34.6	51.8#

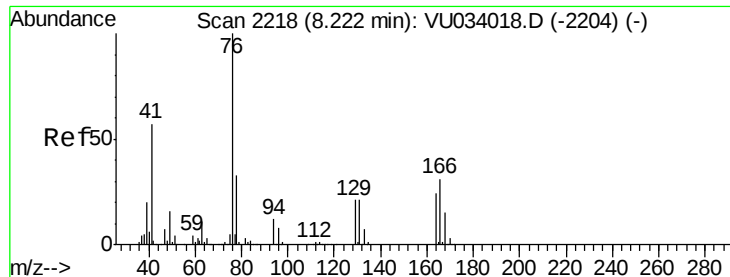


#56

Ethyl methacrylate
 Concen: 0.980 ug/l
 RT: 7.95 min Scan# 2134
 Delta R.T. -0.05 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Tgt 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: 0.443 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

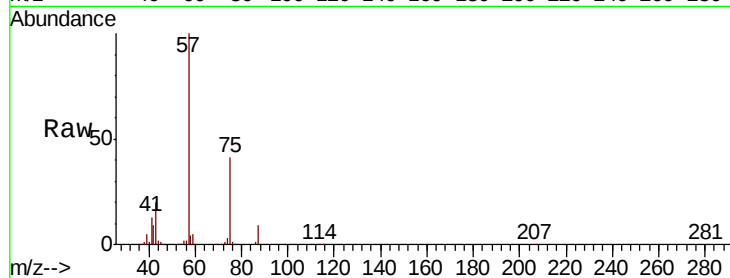
ClientSampled :

Tot Ion: 76 Resp: 3851

Ion Ratio Lower Upper

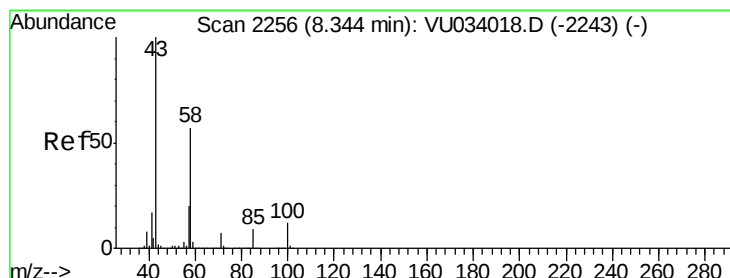
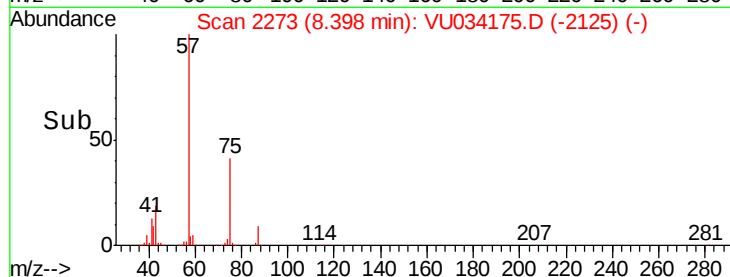
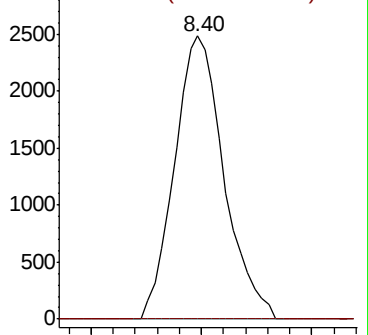
76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034175.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034175.D (-2125) (-)



#59

2-Hexanone

Concen: 9.358 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034175.D

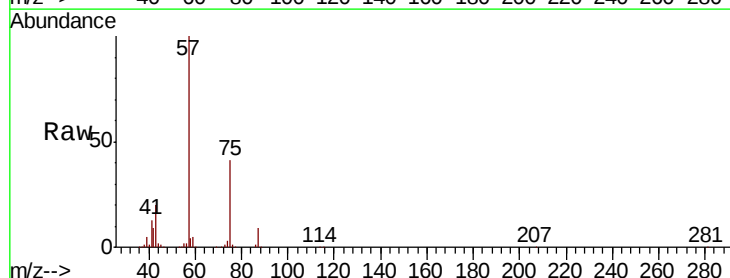
Acq: 01 Sep 2019 17:39

Tgt Ion: 43 Resp: 53960

Ion Ratio Lower Upper

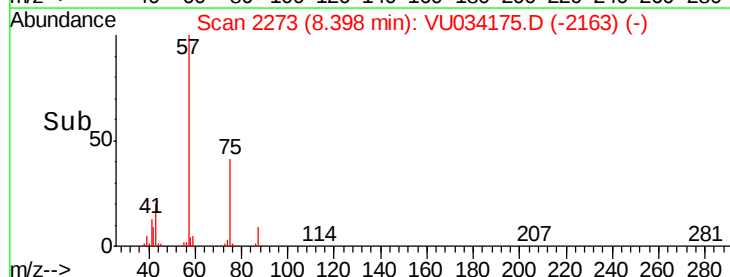
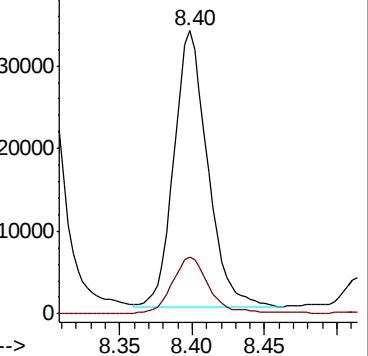
43 100

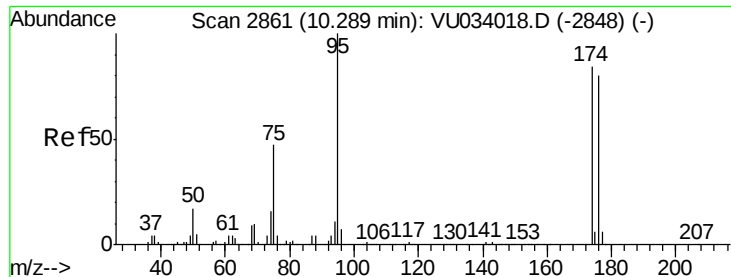
58 22.9 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034175.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034175.D (-2163) (-)





#62

4-Bromofluorobenzene

Concen: 46.220 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

ClientSampleId :

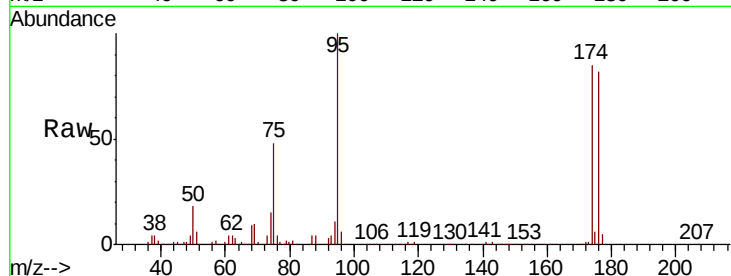
Tot Ion: 95 Resp: 320470

Ion Ratio Lower Upper

95 100

174 84.3 0.0 168.8

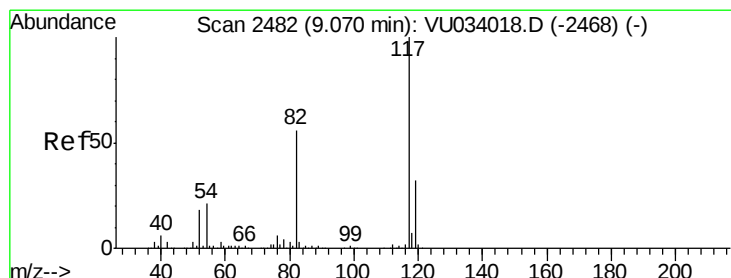
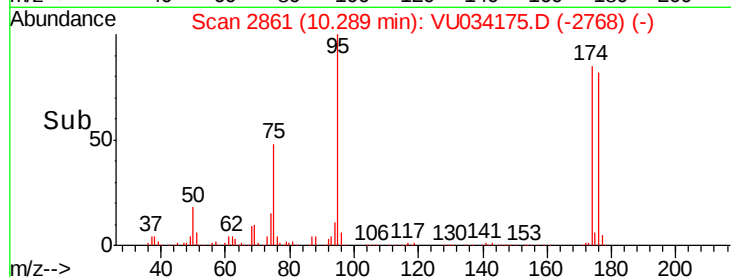
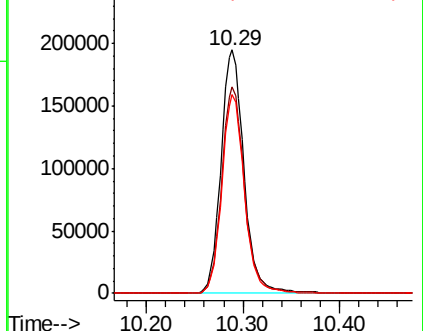
176 80.4 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

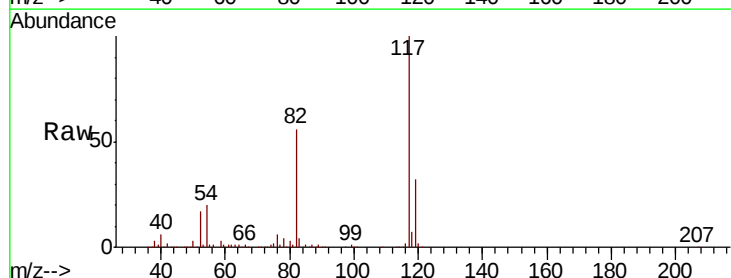
Tgt Ion: 117 Resp: 700985

Ion Ratio Lower Upper

117 100

82 55.5 45.1 67.7

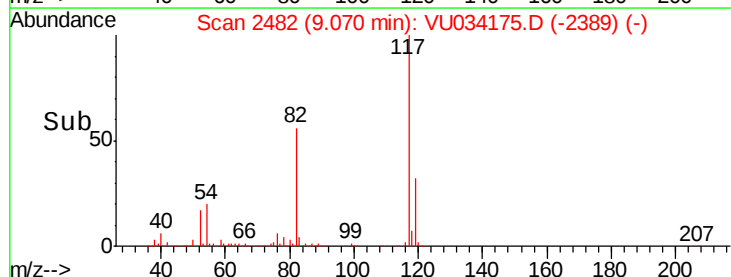
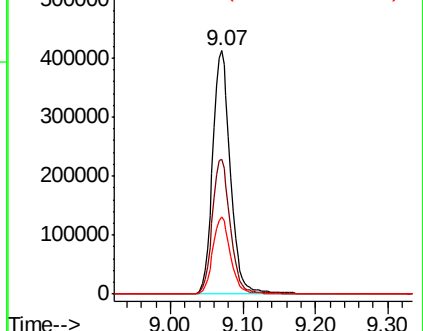
119 31.5 25.4 38.0

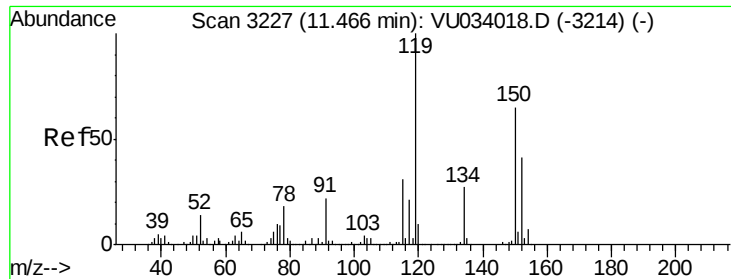


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

ClientSampleId :

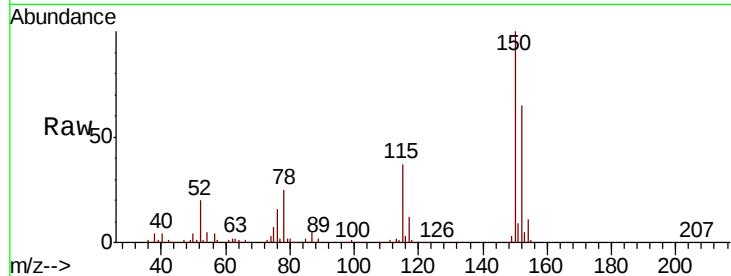
Tot Ion:152 Resp: 341656

Ion Ratio Lower Upper

152 100

115 57.4 41.1 123.3

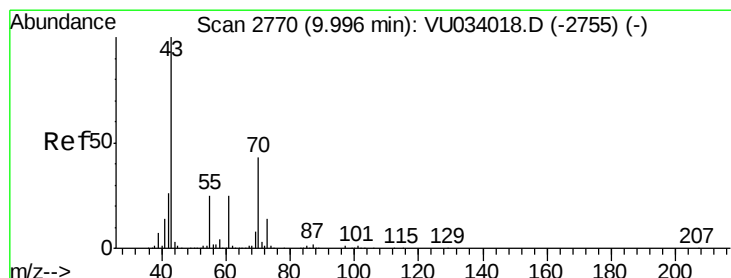
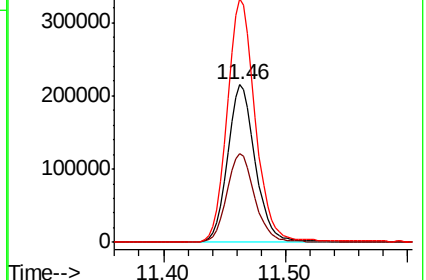
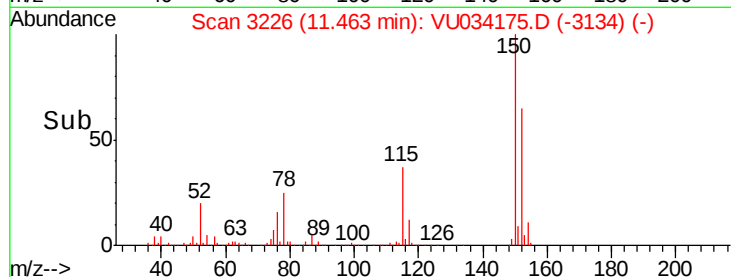
150 156.7 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.281 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Tgt Ion: 43 Resp: 2713

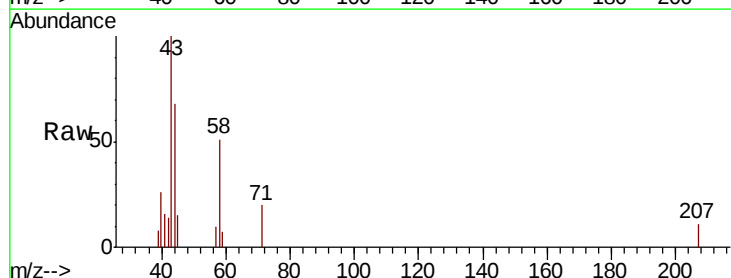
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 3.6 20.5 30.7#

61 0.0 20.0 30.0#

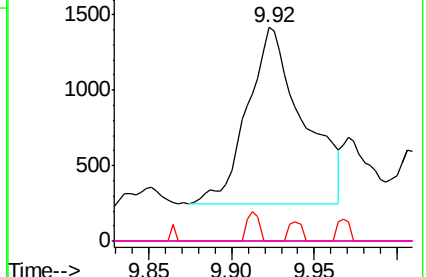
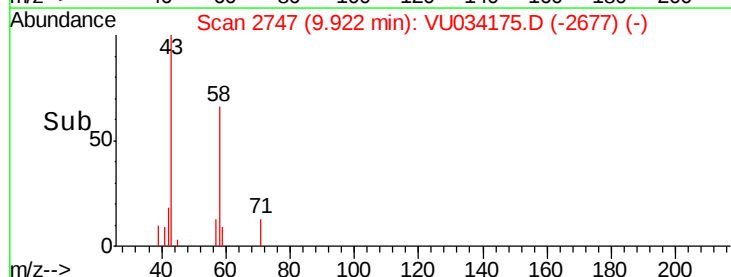


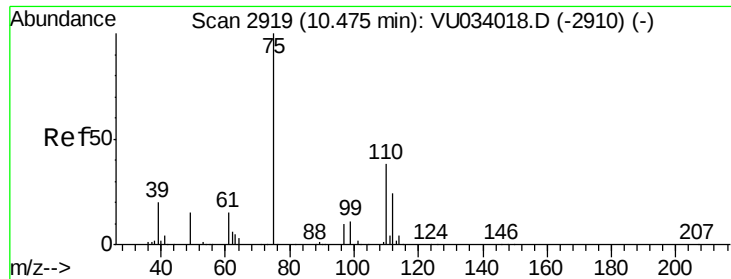
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

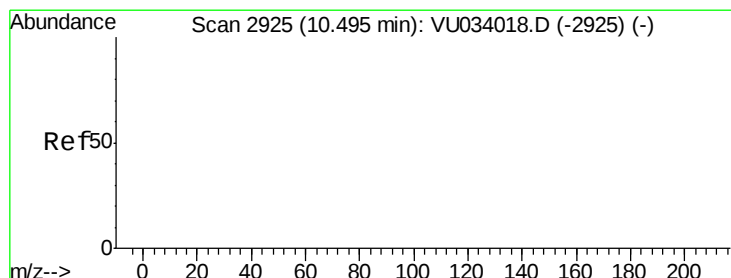
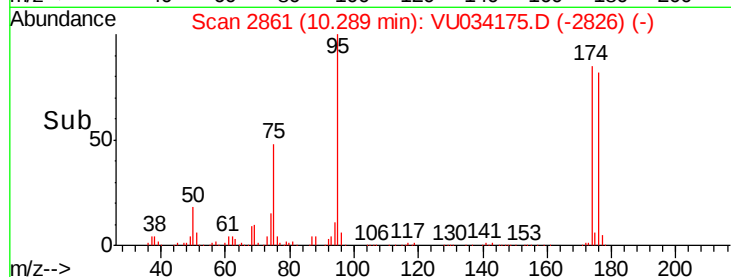
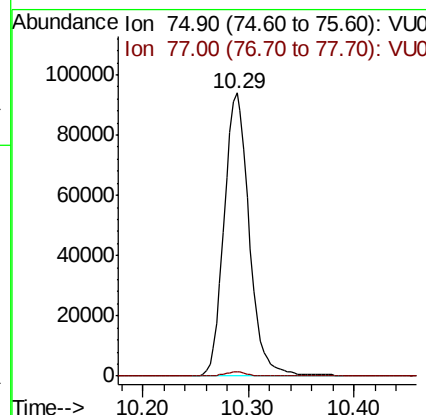
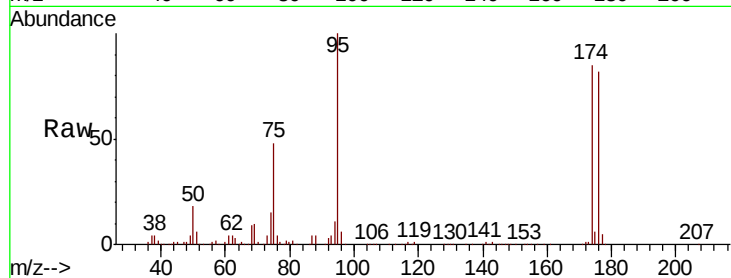




#76
 1,2,3-Trichloropropane
 Concen: 20.144 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

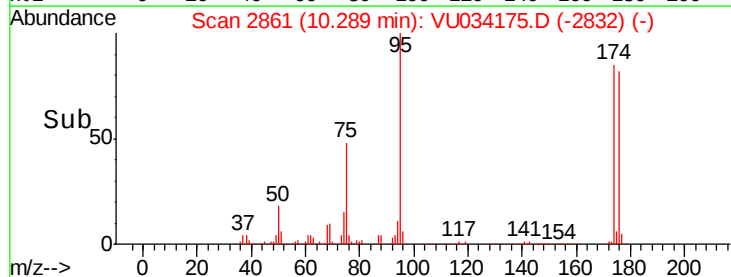
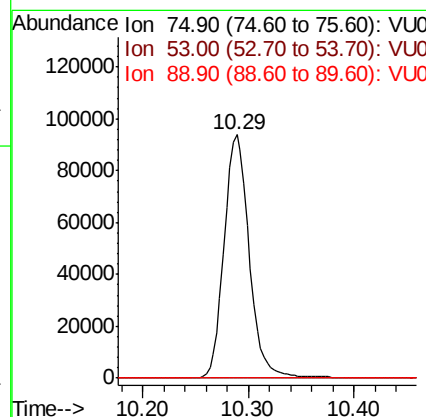
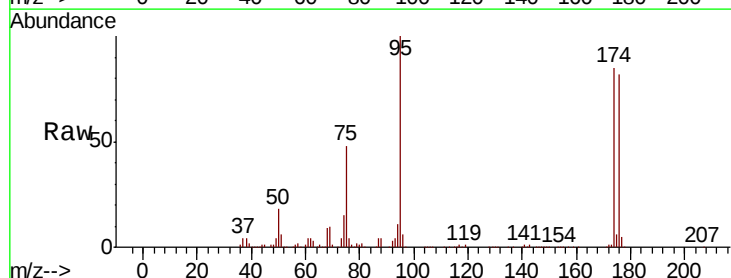
Instrument :
 MSVOA_U
 ClientSampled :

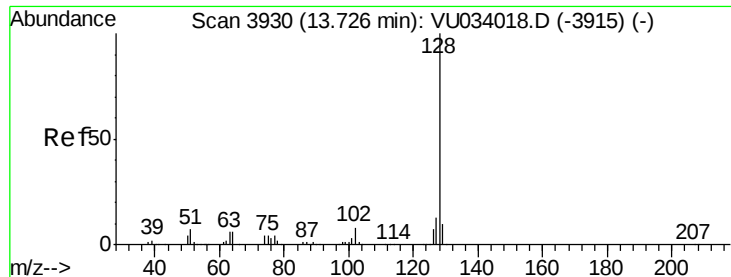
Tot Ion: 75 Resp: 155115
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.830 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034175.D
 Acq: 01 Sep 2019 17:39

Tgt Ion: 75 Resp: 155115
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0





#95

Napthalene

Concen: 1.793 ug/l

RT: 13.80 min Scan# 3954

Delta R.T. 0.08 min

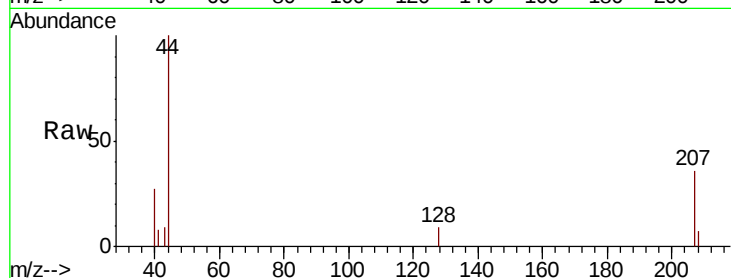
Lab File: VU034175.D

Acq: 01 Sep 2019 17:39

Instrument :

MSVOA_U

ClientSampleId :



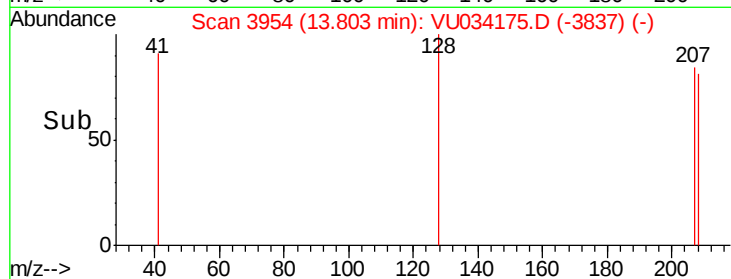
Tot Ion:128 Resp: 69

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

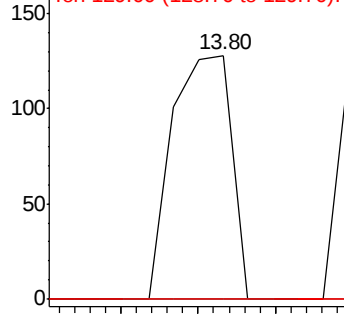
129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->