

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034172.D
 Acq On : 01 Sep 2019 16:29
 Operator : JC/SP
 Sample : K4527-21
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:33:56 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	443731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	723631	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	718880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	347473	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	281634	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	4.86	113	238447	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	7.55	98	942924	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	10.29	95	329338	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	

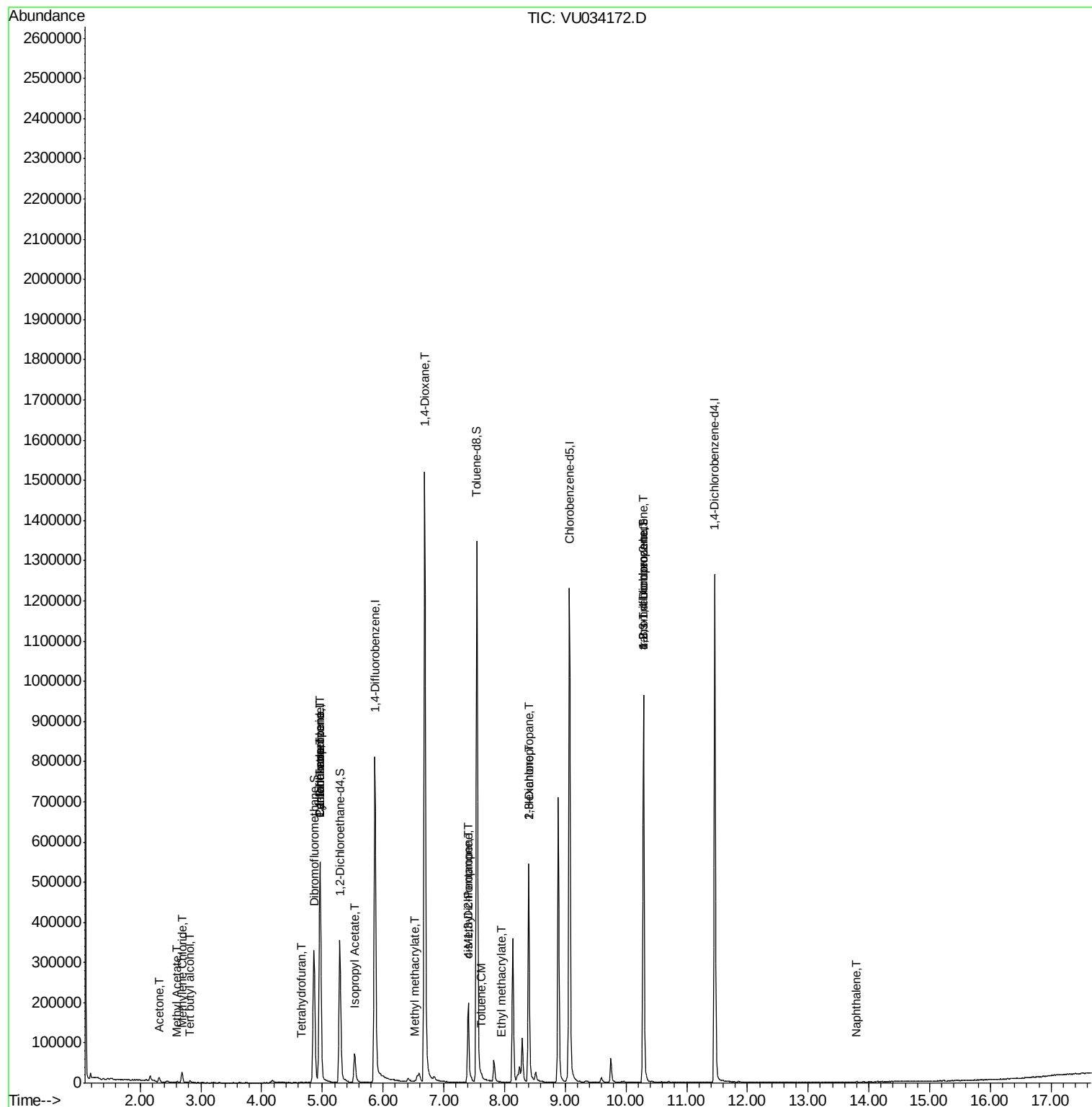
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	664	Below Cal		98
5) Bromomethane	1.63	94	324	Below Cal	#	56
11) Tert butyl alcohol	2.82	59	3149	2.402	ug/l #	73
16) Acetone	2.31	43	13932	4.802	ug/l	94
18) Methyl Acetate	2.61	43	3633	0.485	ug/l	94
20) Methylene Chloride	2.69	84	11416	2.079	ug/l	96
29) Tetrahydrofuran	4.65	42	502	0.202	ug/l #	39
31) Cyclohexane	4.96	56	8646	1.018	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32398	4.733	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40969	6.201	ug/l #	16
43) Isopropyl Acetate	5.53	43	85219	7.308	ug/l	99
48) Methyl methacrylate	6.53	41	4623	0.822	ug/l #	14
49) 1,4-Dioxane	6.68	88	105	0.745	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	70612	8.768	ug/l #	47
52) Toluene	7.62	92	2613	0.205	ug/l	99
54) cis-1,3-Dichloropropene	7.40	75	37344	4.287	ug/l #	65
56) Ethyl methacrylate	7.96	69	176	0.991	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5643	0.616	ug/l #	42
59) 2-Hexanone	8.40	43	74763	12.298	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	158033	20.179	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	158033	67.949	ug/l #	100
95) Naphthalene	13.78	128	405	1.808	ug/l #	70

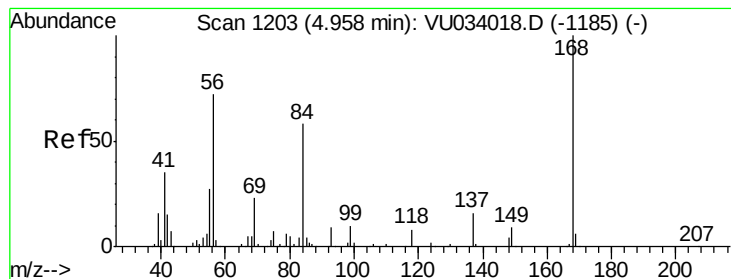
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

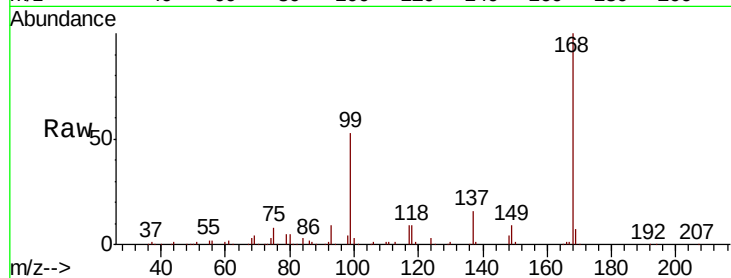
ClientSampleId :

Tot Ion:168 Resp: 443731

Ion Ratio Lower Upper

168 100

99 53.0 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

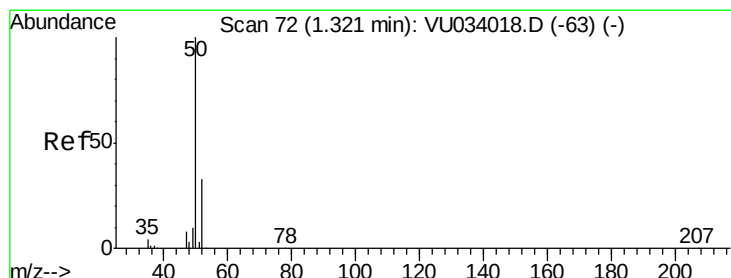
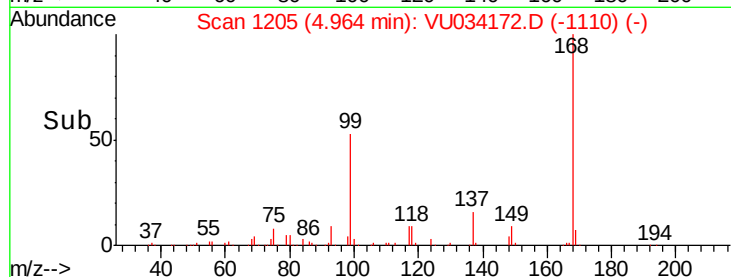
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034172.D

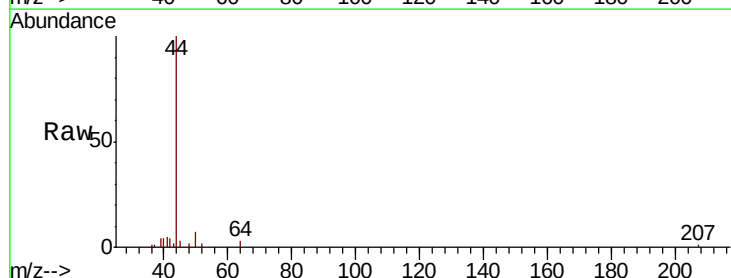
Acq: 01 Sep 2019 16:29

Tgt Ion: 50 Resp: 664

Ion Ratio Lower Upper

50 100

52 31.7 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) (-)

1.32

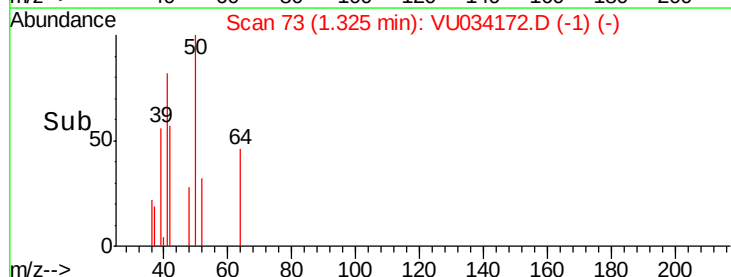
600

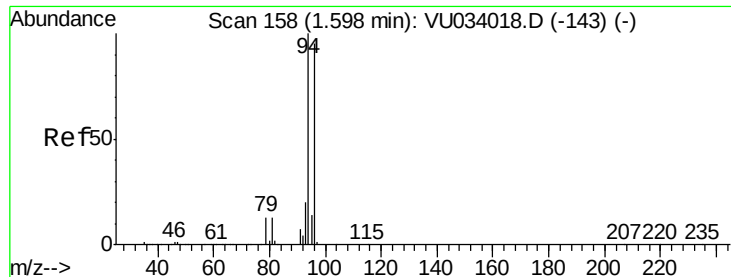
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.03 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

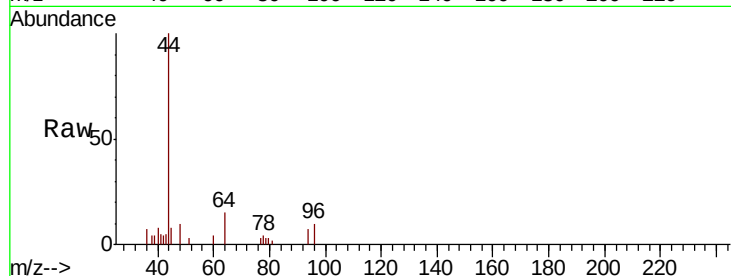
ClientSampleId :

Tot Ion: 94 Resp: 324

Ion Ratio Lower Upper

94 100

96 138.4 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

500

400

300

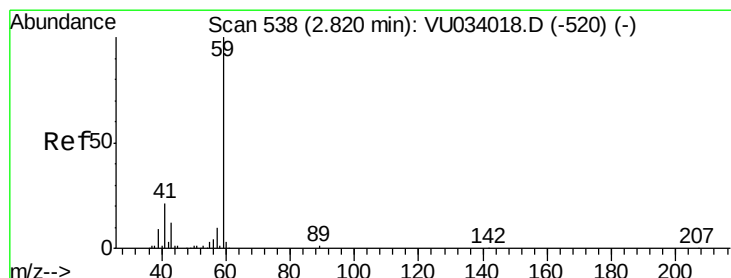
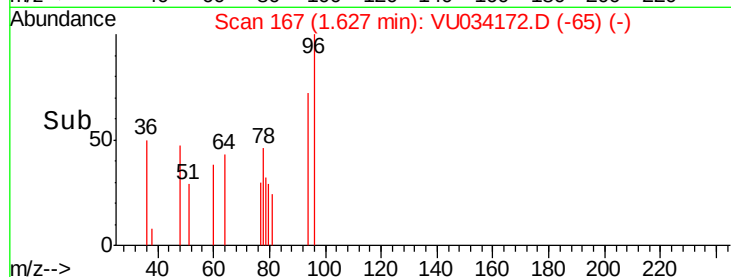
200

100

0

1.60 1.61 1.62 1.63 1.64

Time-->



#11

Tert butyl alcohol

Concen: 2.402 ug/l

RT: 2.82 min Scan# 537

Delta R.T. -0.00 min

Lab File: VU034172.D

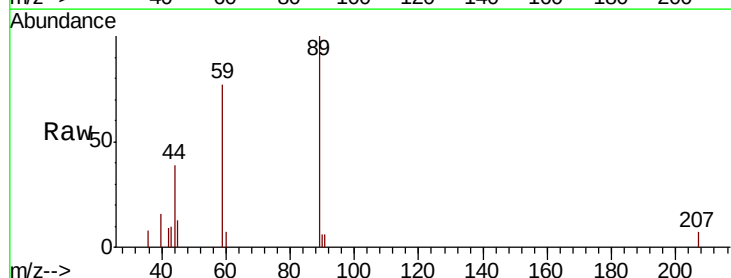
Acq: 01 Sep 2019 16:29

Tgt Ion: 59 Resp: 3149

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

1500

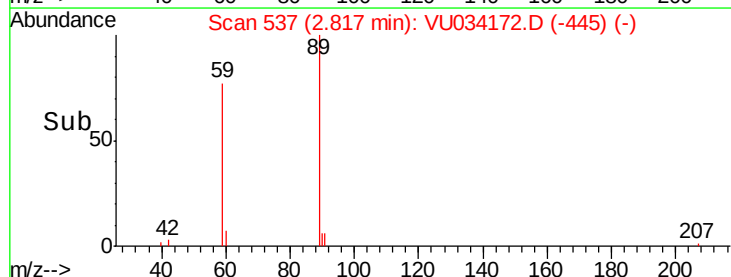
1000

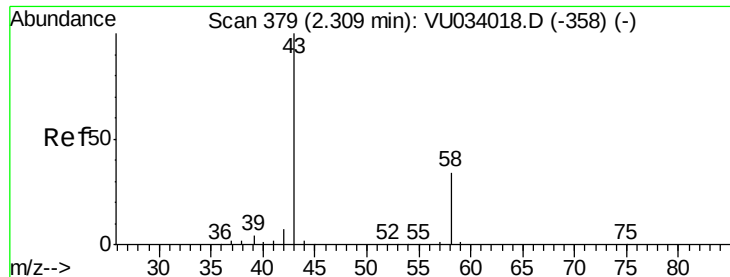
500

0

2.75 2.80 2.85 2.90

Time-->





#16

Acetone

Concen: 4.802 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

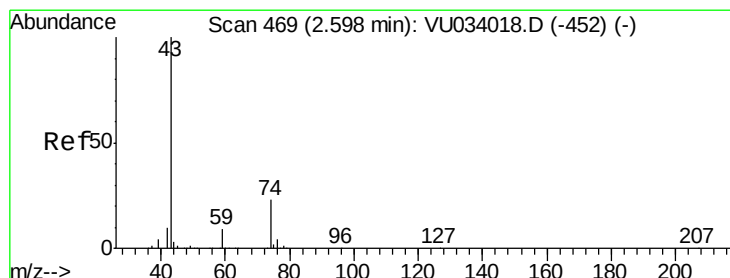
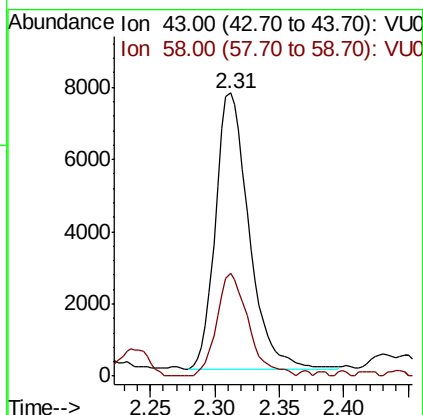
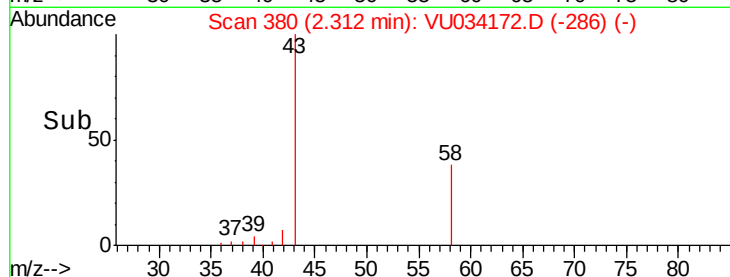
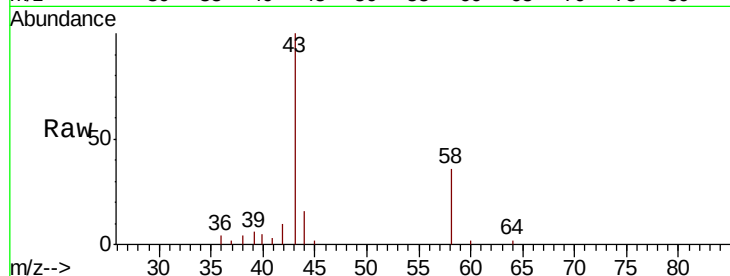
ClientSampleId :

Tot Ion: 43 Resp: 13932

Ion Ratio Lower Upper

43 100

58 37.2 26.8 40.2



#18

Methyl Acetate

Concen: 0.485 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034172.D

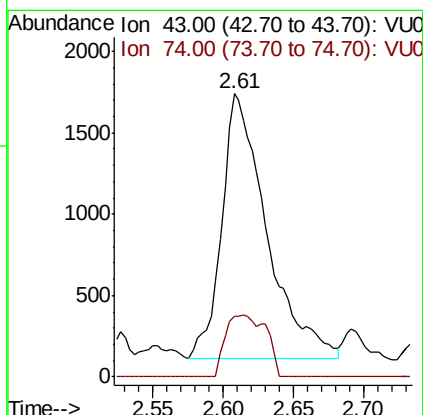
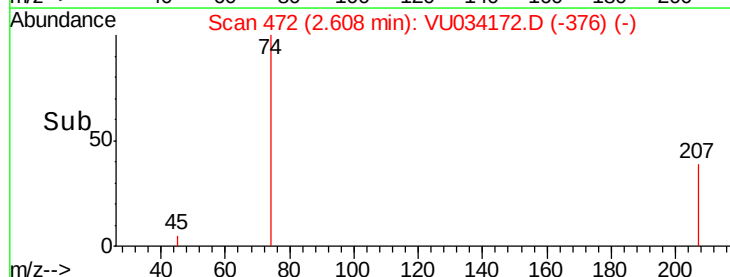
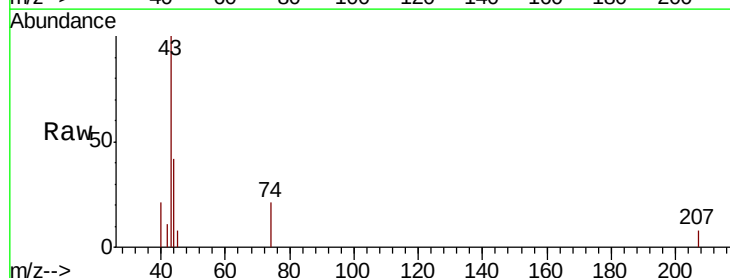
Acq: 01 Sep 2019 16:29

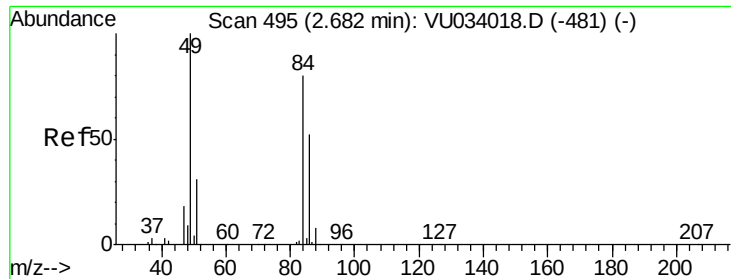
Tgt Ion: 43 Resp: 3633

Ion Ratio Lower Upper

43 100

74 21.0 19.2 28.8

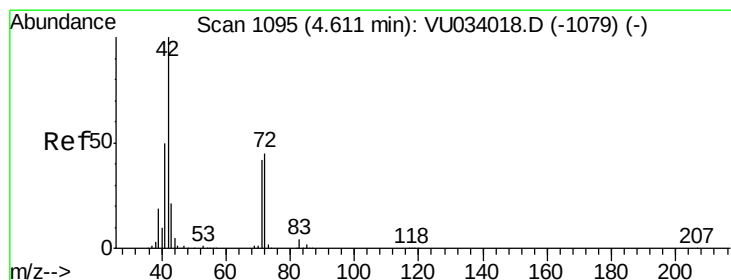
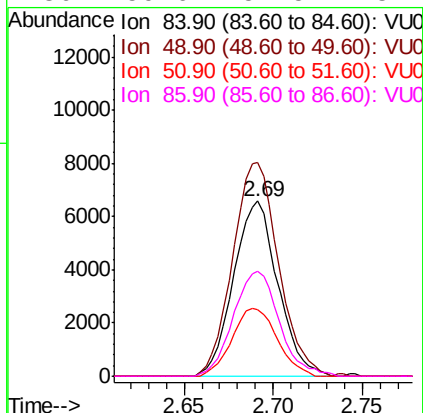
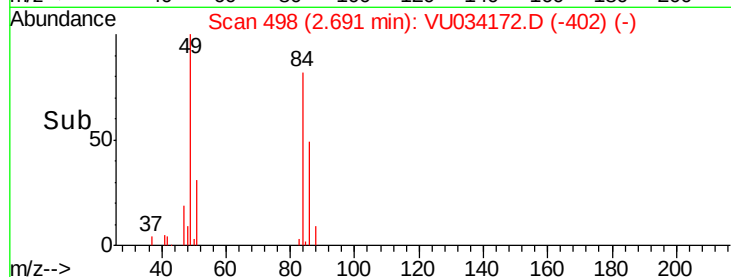
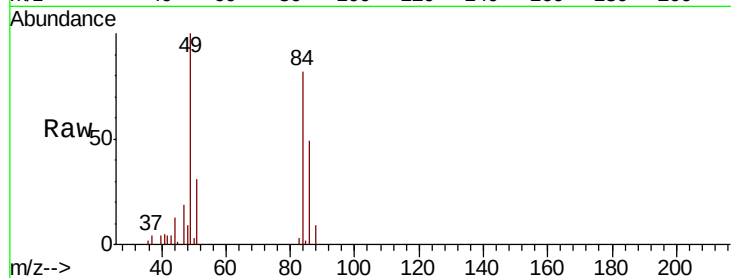




#20
Methylene Chloride
Concen: 2.079 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034172.D
Acq: 01 Sep 2019 16:29

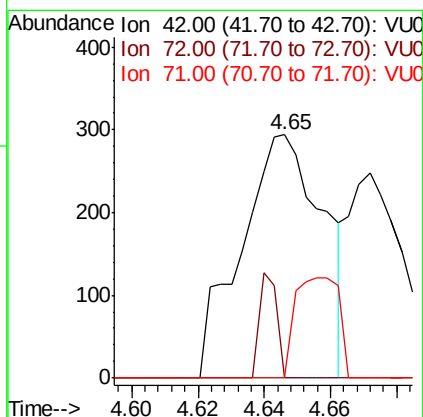
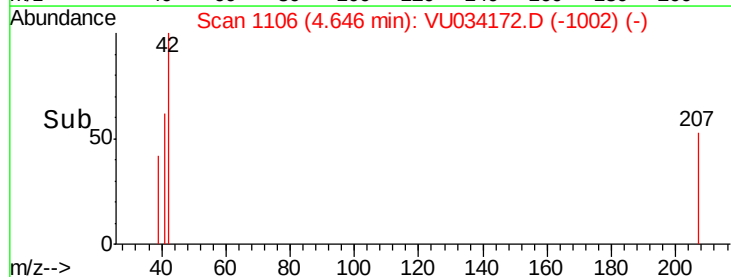
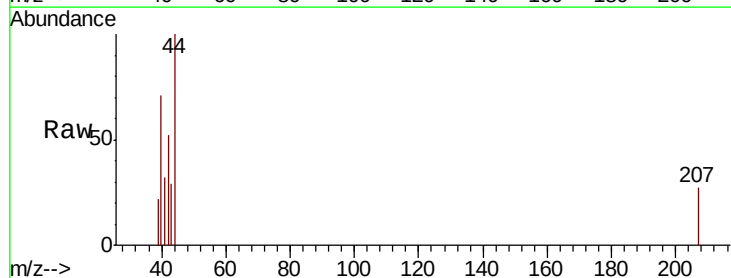
Instrument :
MSVOA_U
ClientSampleId :

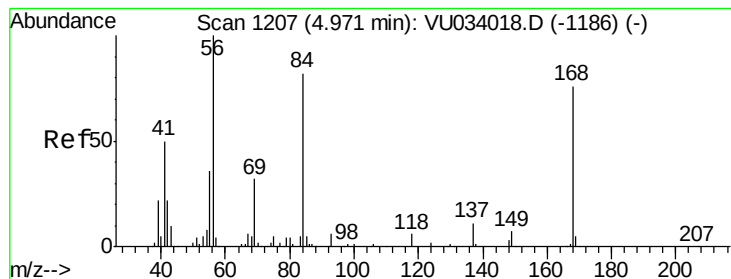
Tot Ion:	84	Resp:	11416
Ion	Ratio	Lower	Upper
84	100		
49	121.9	100.2	150.4
51	37.8	30.8	46.2
86	59.6	52.5	78.7



#29
Tetrahydrofuran
Concen: 0.202 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. 0.04 min
Lab File: VU034172.D
Acq: 01 Sep 2019 16:29

Tgt Ion:	42	Resp:	502
Ion	Ratio	Lower	Upper
42	100		
72	9.2	35.8	53.6#
71	0.0	34.0	51.0#





#31

Cyclohexane

Concen: 1.018 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

ClientSampled :

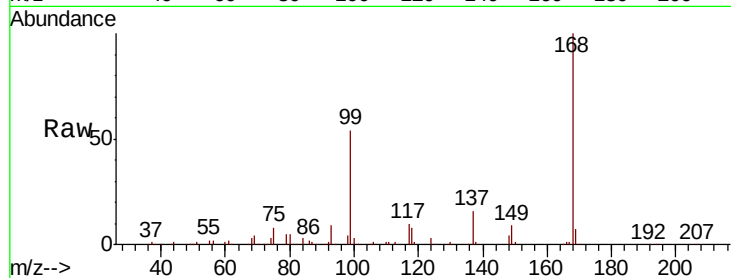
Tot Ion: 56 Resp: 8646

Ion Ratio Lower Upper

56 100

69 187.9 25.4 38.0#

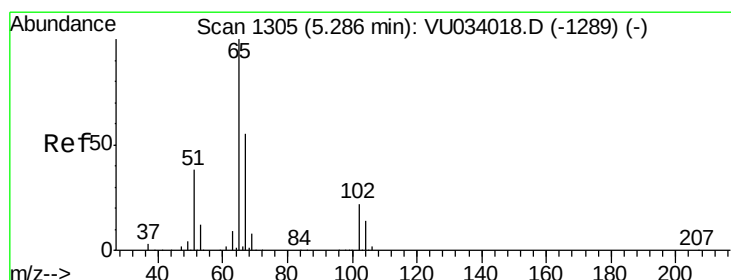
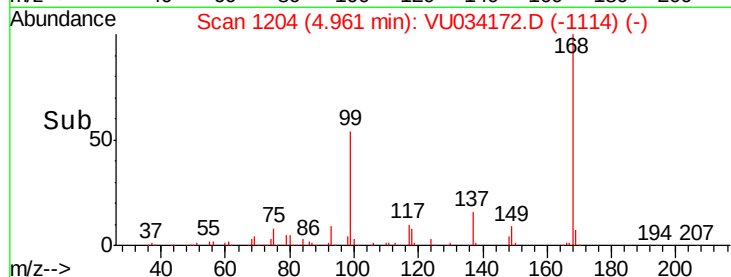
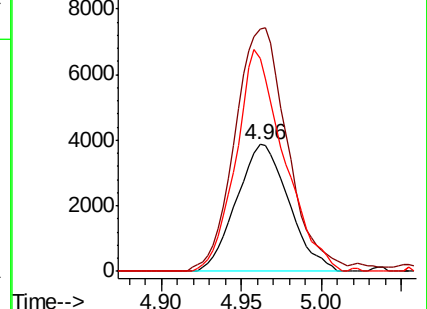
84 167.9 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034172.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034172.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034172.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.534 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034172.D

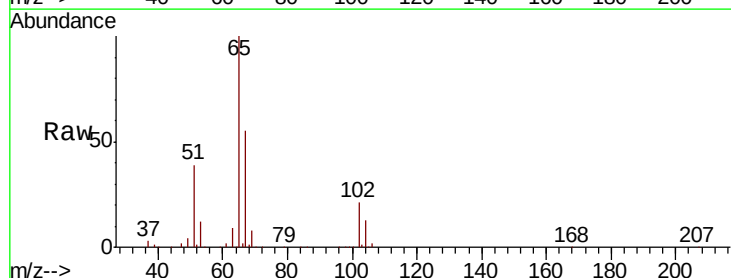
Acq: 01 Sep 2019 16:29

Tgt Ion: 65 Resp: 281634

Ion Ratio Lower Upper

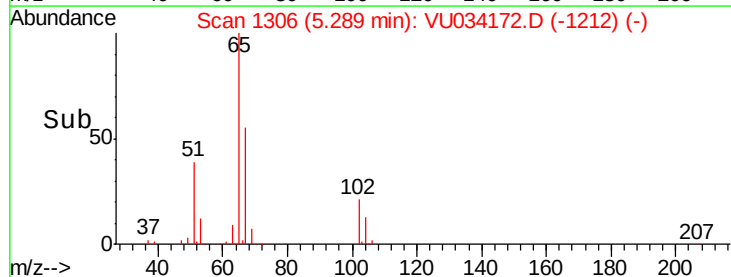
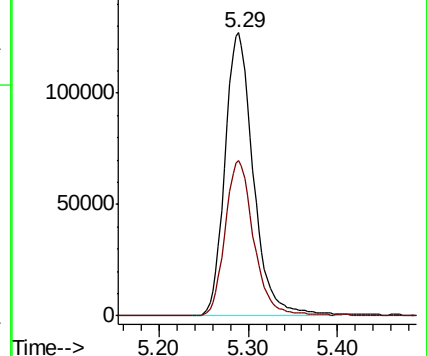
65 100

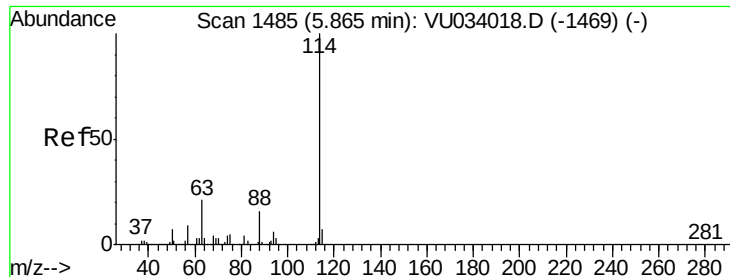
67 55.2 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034172.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034172.D (-1212) (-)

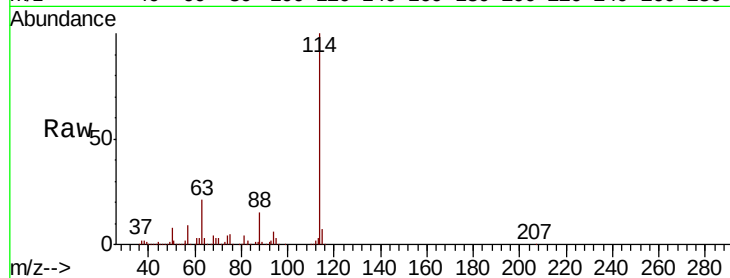




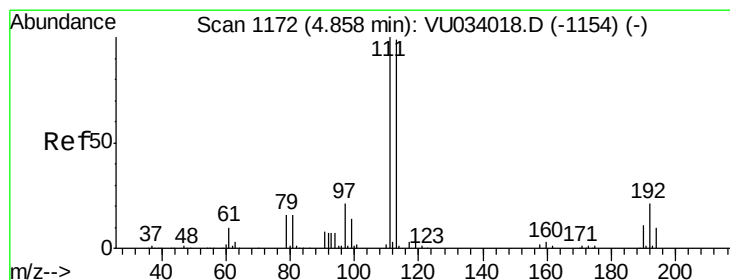
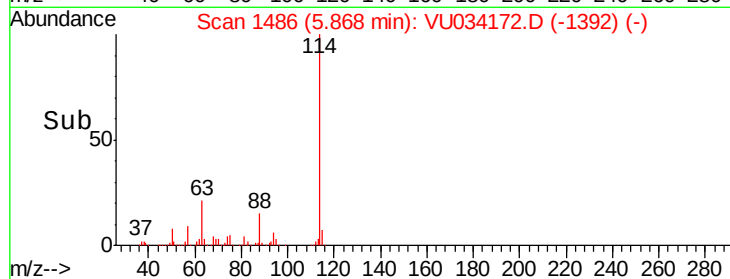
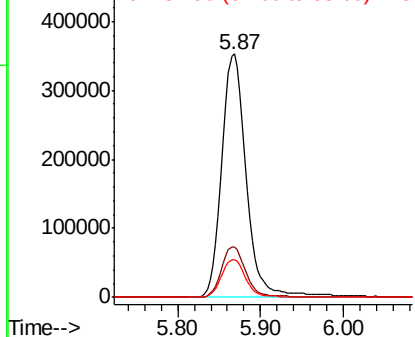
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034172.D
 Acq: 01 Sep 2019 16:29

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114	Resp:	723631
Ion Ratio	Lower	Upper
114 100		
63 20.9	0.0	42.0
88 15.4	0.0	32.0

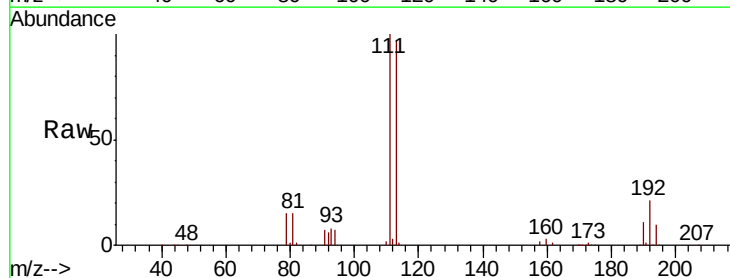


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

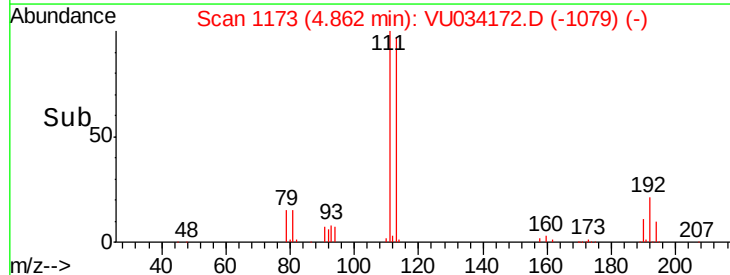
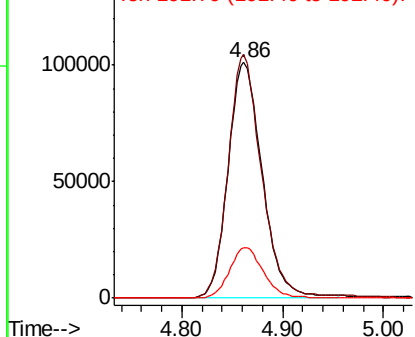


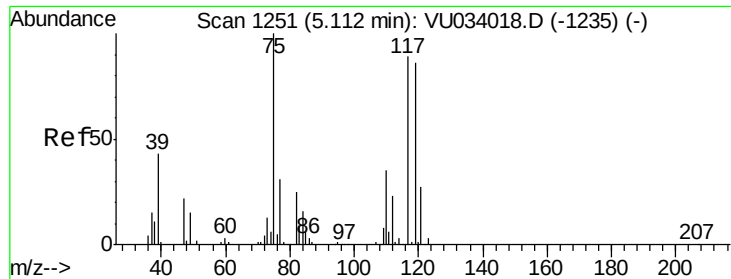
#35
 Dibromofluoromethane
 Concen: 47.508 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034172.D
 Acq: 01 Sep 2019 16:29

Tgt Ion:113	Resp:	238447
Ion Ratio	Lower	Upper
113 100		
111 101.4	81.7	122.5
192 21.6	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

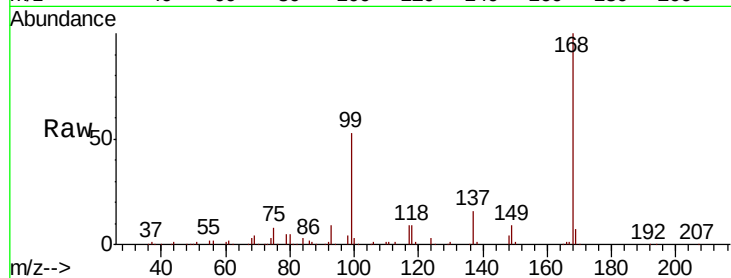




#36
 1,1-Dichloropropene
 Concen: 4.733 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034172.D
 Acq: 01 Sep 2019 16:29

Instrument :
 MSVOA_U
 ClientSampled :

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

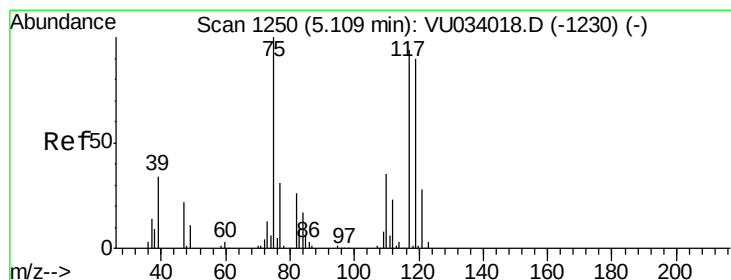
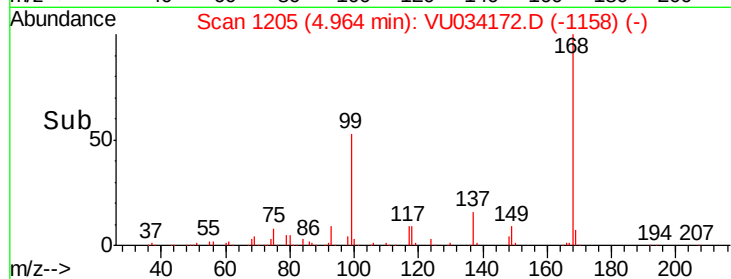
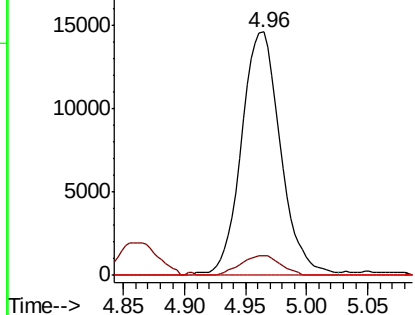


Abundance

Ion 74.90 (74.60 to 75.60): VU034018.D (-1235) (-)

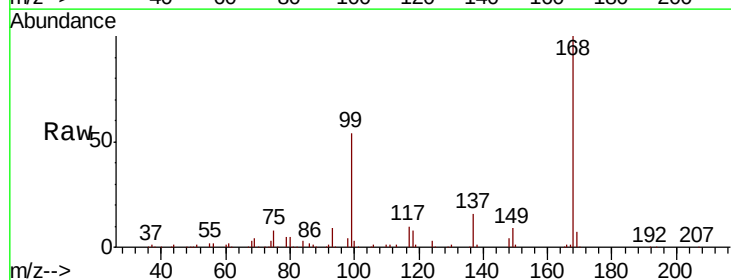
Ion 109.90 (109.60 to 110.60): VU034018.D (-1235) (-)

Ion 76.90 (76.60 to 77.60): VU034018.D (-1235) (-)



#38
 Carbon Tetrachloride
 Concen: 6.201 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034172.D
 Acq: 01 Sep 2019 16:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	77.0	115.4#
121	0.0	23.9	35.9#

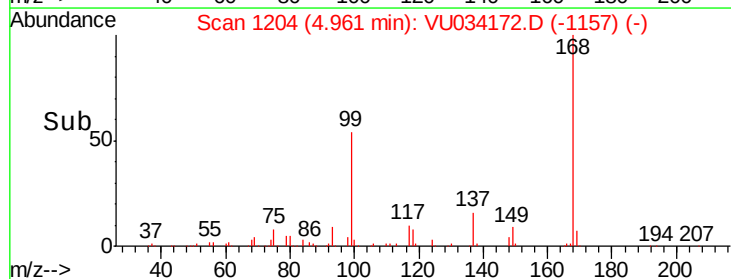
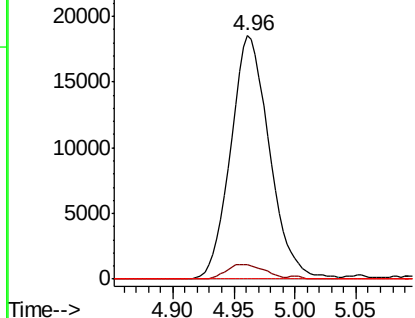


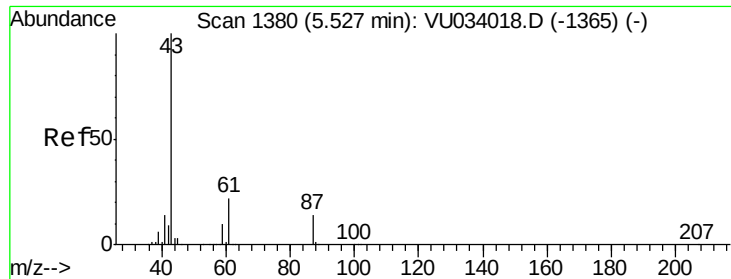
Abundance

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: 7.308 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

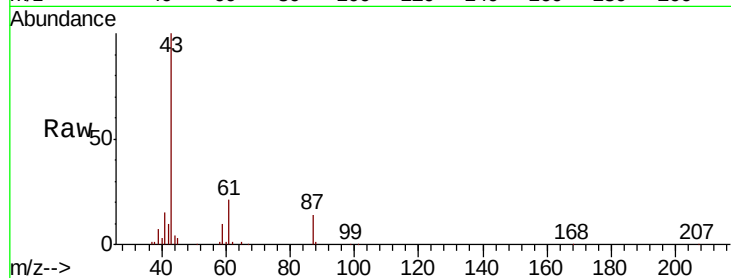
Tot Ion: 43 Resp: 85219

Ion Ratio Lower Upper

43 100

61 21.6 17.2 25.8

87 14.0 10.8 16.2

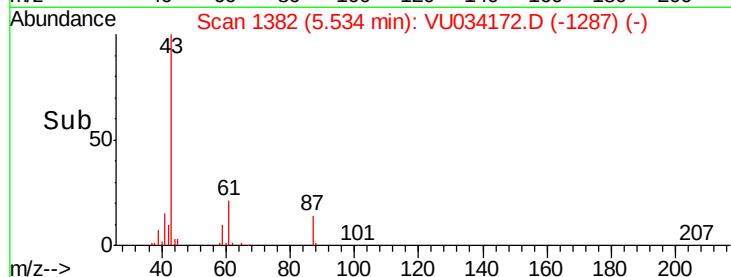


Abundance Ion 43.00 (42.70 to 43.70): VU034172.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034172.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034172.D (-1287) (-)

Time-->



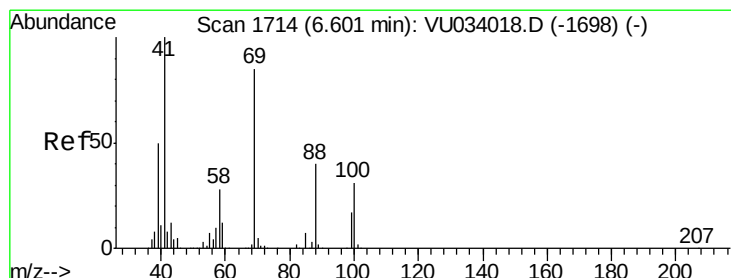
Abundance

Ion 43.00 (42.70 to 43.70): VU034172.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034172.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034172.D (-1287) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.822 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

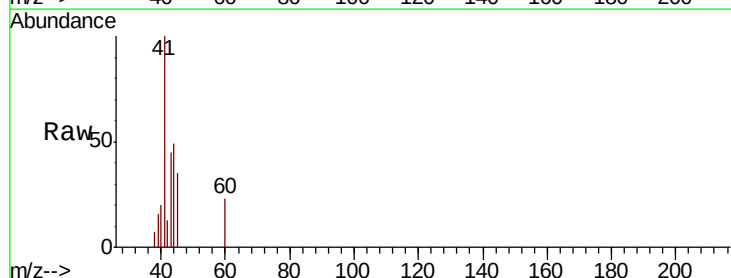
Tgt Ion: 41 Resp: 4623

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

39 0.0 40.3 60.5#

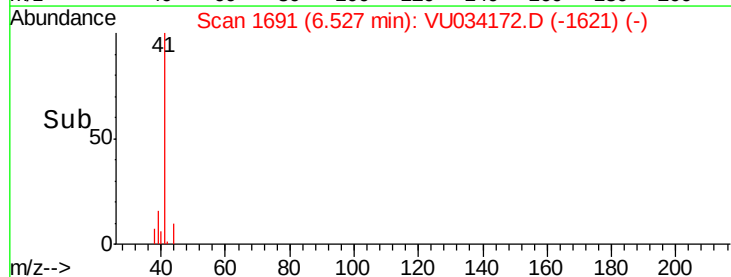


Abundance Ion 41.00 (40.70 to 41.70): VU034172.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034172.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034172.D (-1621) (-)

Time-->



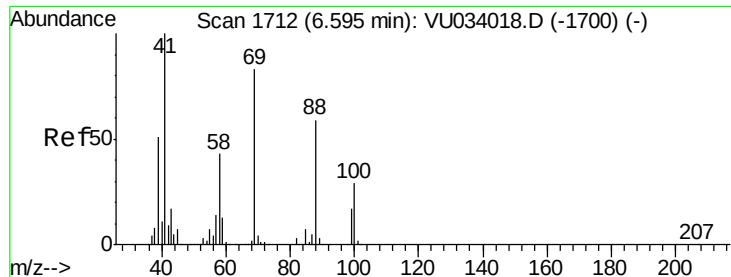
Abundance

Ion 41.00 (40.70 to 41.70): VU034172.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034172.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034172.D (-1621) (-)

Time-->



#49

1,4-Dioxane

Concen: 0.745 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.09 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

ClientSampled :

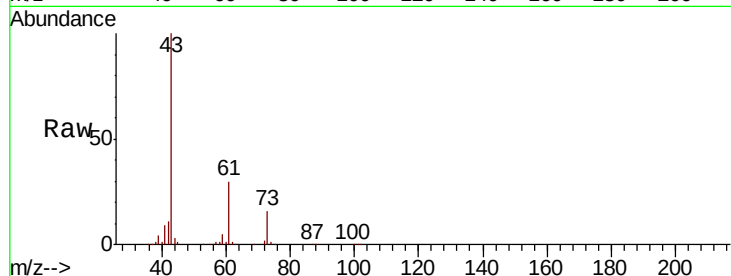
Tot Ion: 88 Resp: 105

Ion Ratio Lower Upper

88 100

43 1422772.4 24.8 37.2#

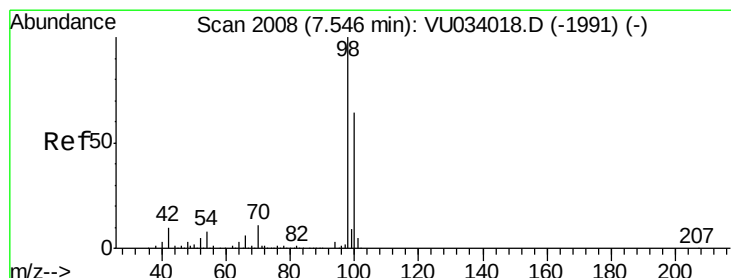
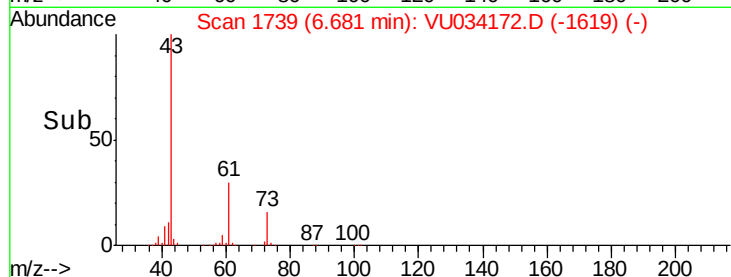
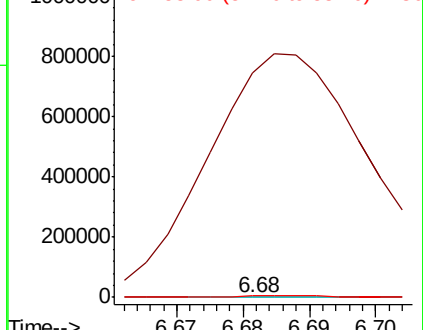
58 7888.6 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034172.D (-1739) (-)

Ion 43.00 (42.70 to 43.70): VU034172.D (-1739) (-)

Ion 58.00 (57.70 to 58.70): VU034172.D (-1739) (-)



#50

Toluene-d8

Concen: 50.174 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034172.D

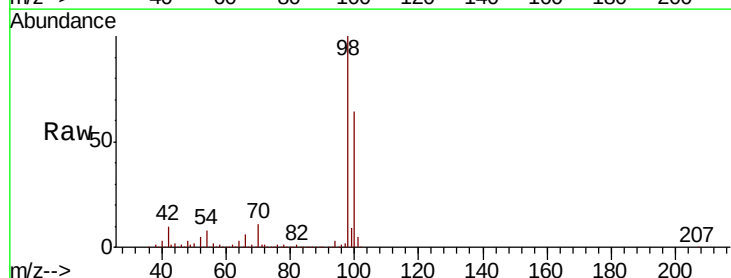
Acq: 01 Sep 2019 16:29

Tgt Ion: 98 Resp: 942924

Ion Ratio Lower Upper

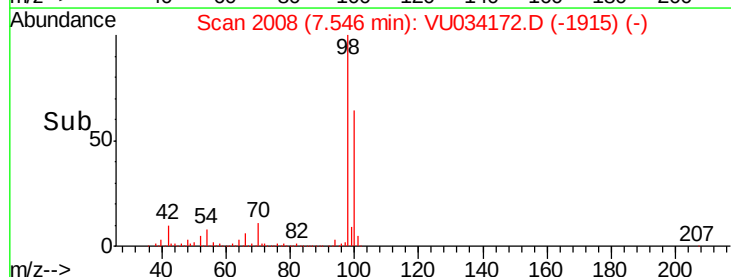
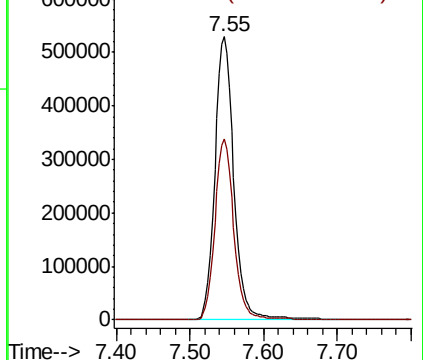
98 100

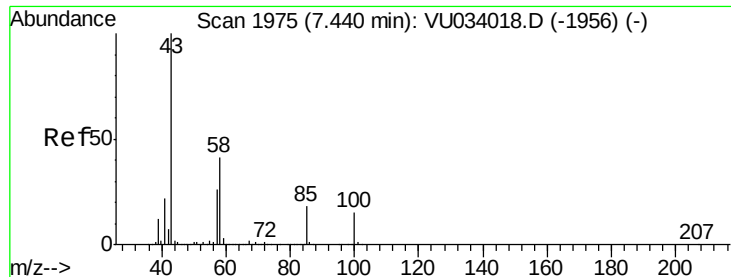
100 63.8 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034172.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034172.D (-2008) (-)





#51

4-Methyl-2-Pentanone

Concen: 8.768 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

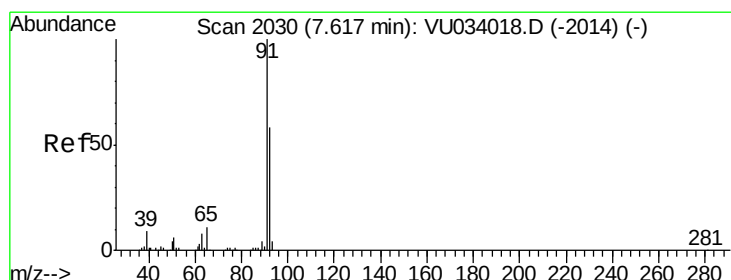
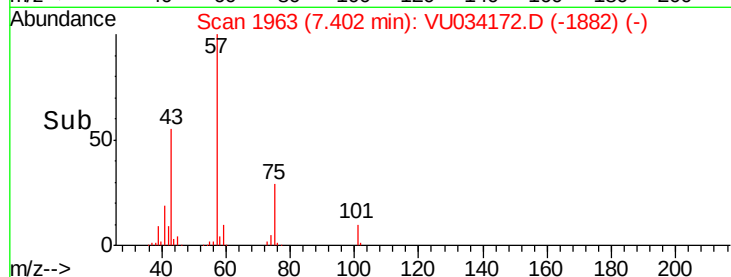
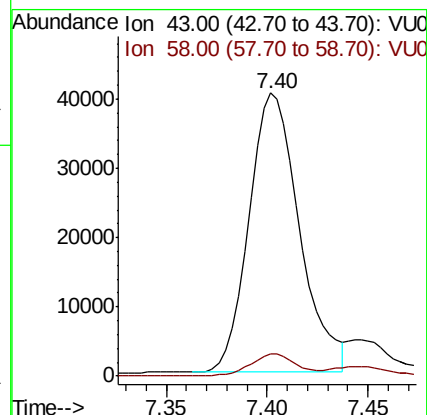
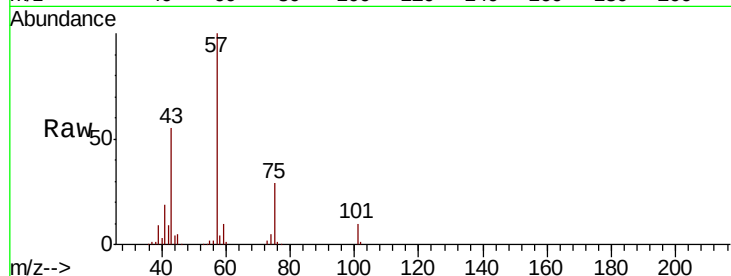
ClientSampled :

Tot Ion: 43 Resp: 70612

Ion Ratio Lower Upper

43 100

58 7.2 32.2 48.4#



#52

Toluene

Concen: 0.205 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034172.D

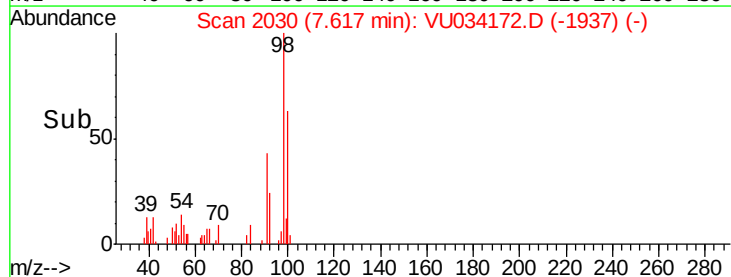
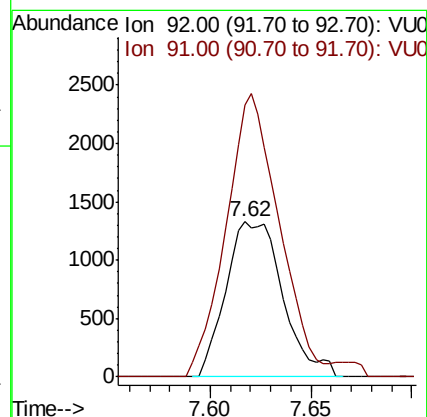
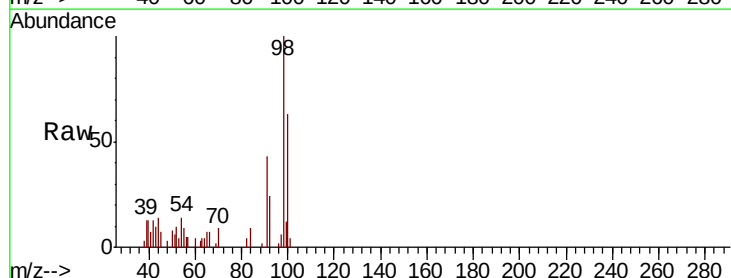
Acq: 01 Sep 2019 16:29

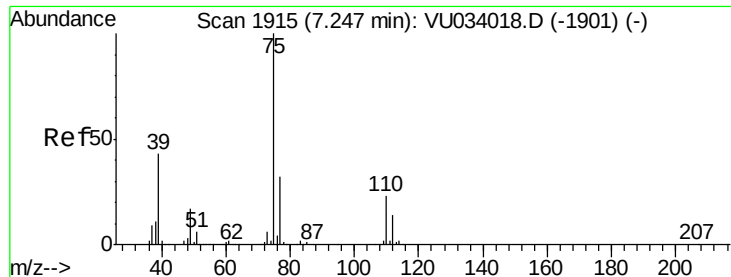
Tgt Ion: 92 Resp: 2613

Ion Ratio Lower Upper

92 100

91 170.9 138.3 207.5





#54

cis-1,3-Dichloropropene

Concen: 4.287 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

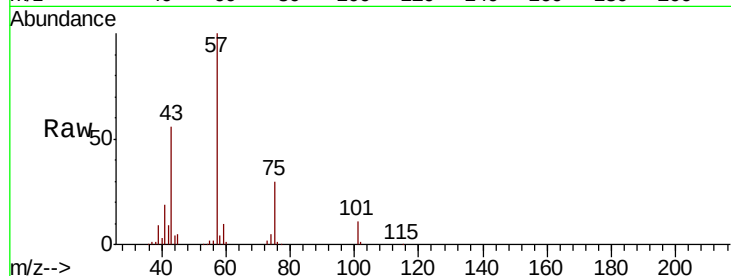
Tot Ion: 75 Resp: 37344

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

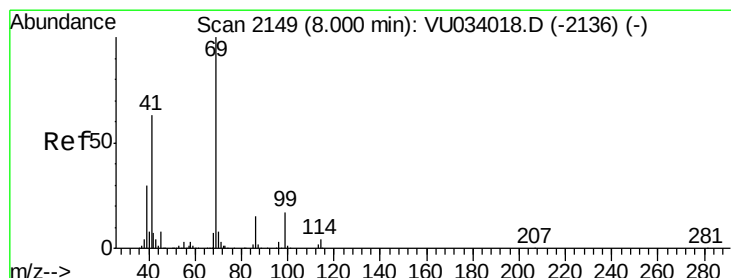
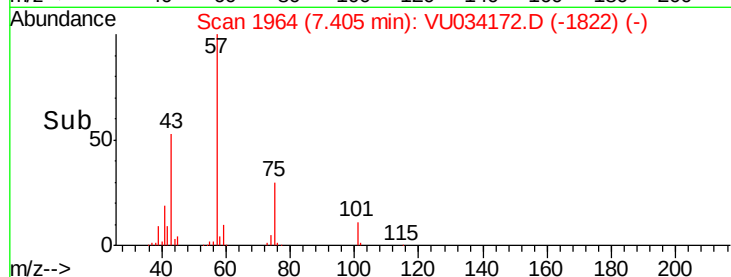
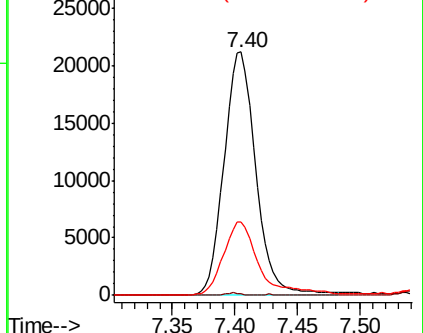
39 30.4 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#56

Ethyl methacrylate

Concen: 0.991 ug/l

RT: 7.96 min Scan# 2137

Delta R.T. -0.04 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

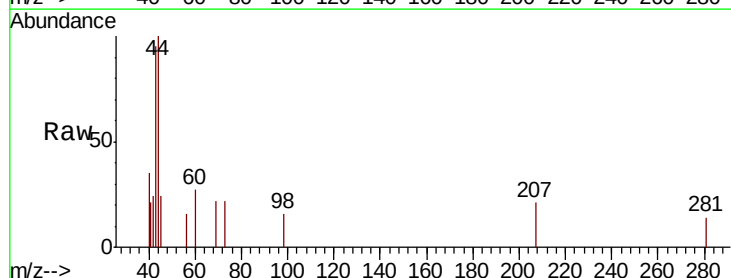
Tgt Ion: 69 Resp: 176

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

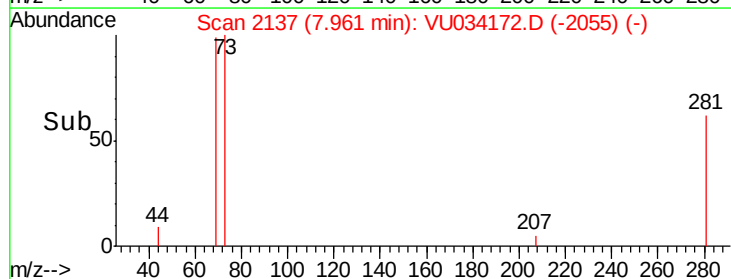
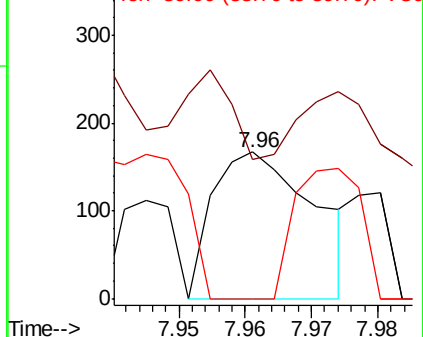
39 0.0 24.2 36.2#

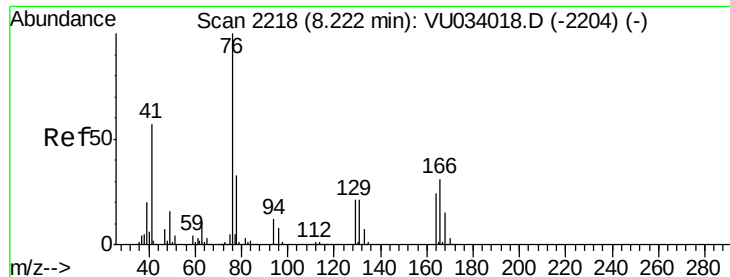


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

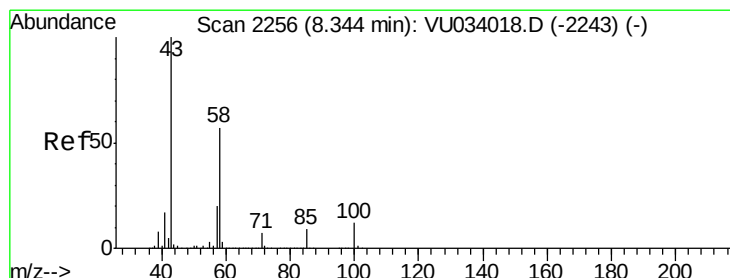
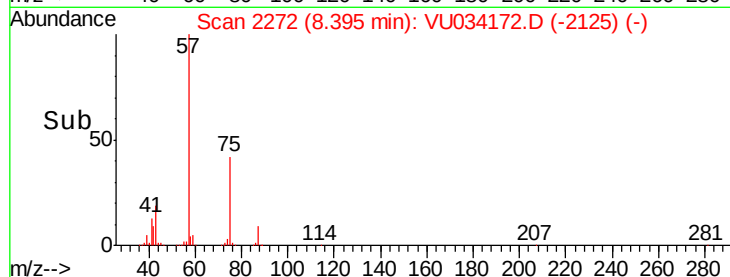
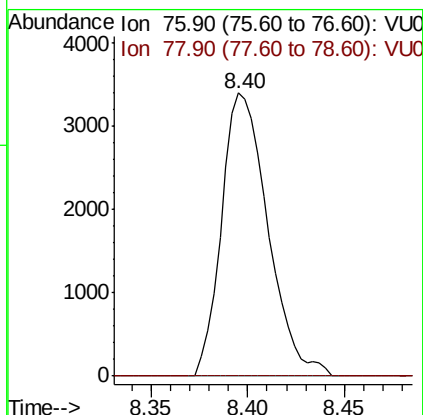
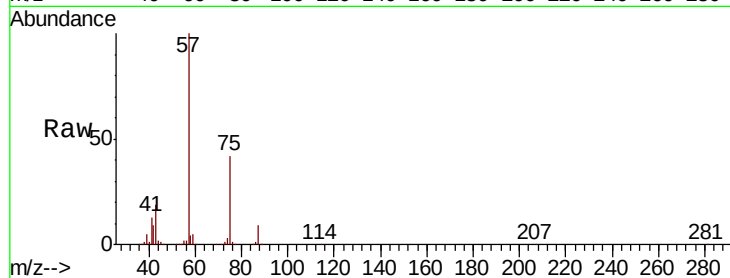




#57
 1,3-Dichloropropane
 Concen: 0.616 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034172.D
 Acq: 01 Sep 2019 16:29

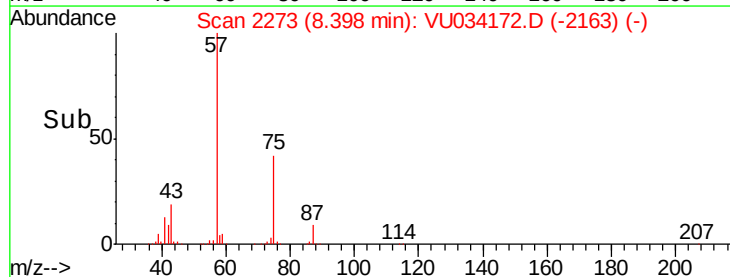
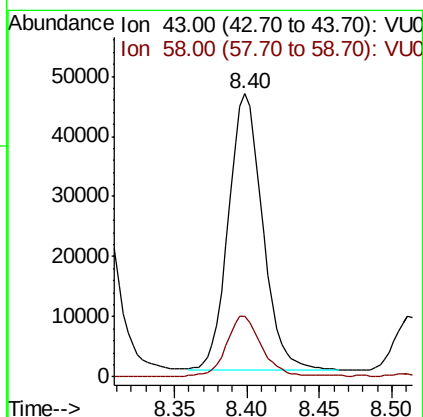
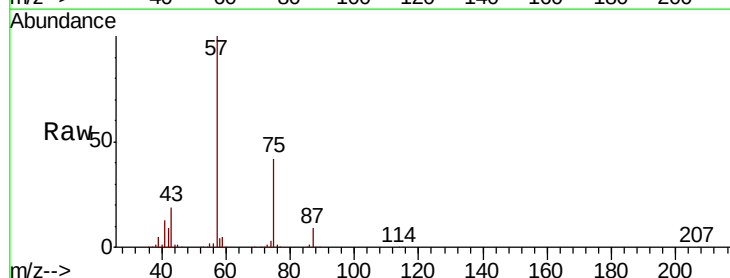
Instrument :
 MSVOA_U
 ClientSampleId :

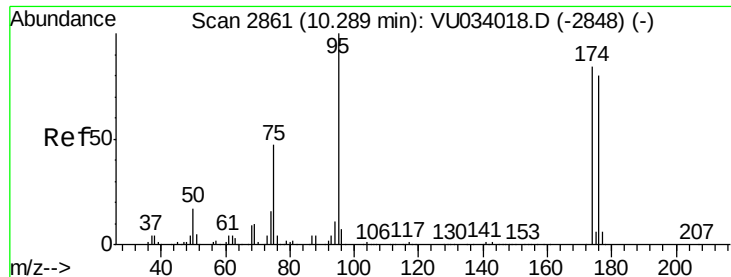
Tot Ion: 76 Resp: 5643
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 12.298 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034172.D
 Acq: 01 Sep 2019 16:29

Tgt Ion: 43 Resp: 74763
 Ion Ratio Lower Upper
 43 100
 58 23.4 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 45.051 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034172.D

Acq: 01 Sep 2019 16:29

Instrument :

MSVOA_U

ClientSampleId :

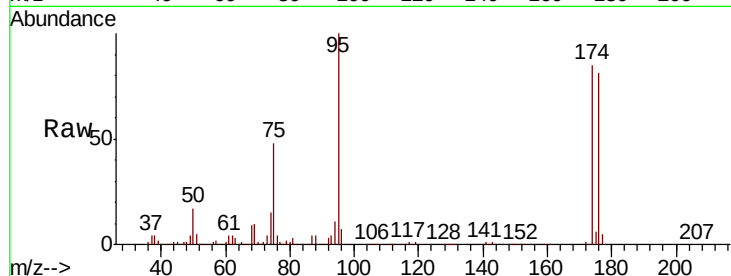
Tot Ion: 95 Resp: 329338

Ion Ratio Lower Upper

95 100

174 84.8 0.0 168.8

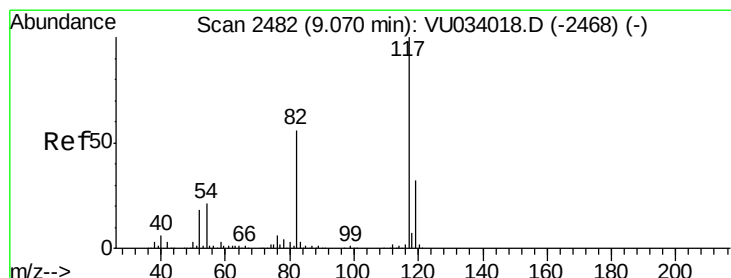
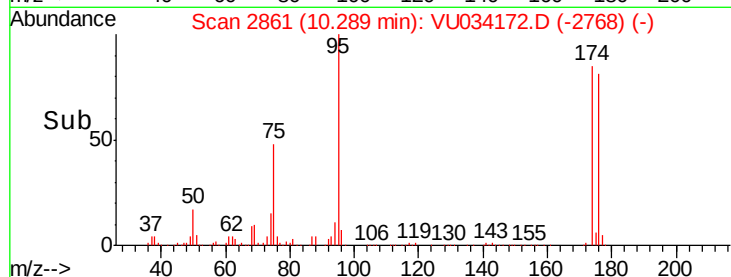
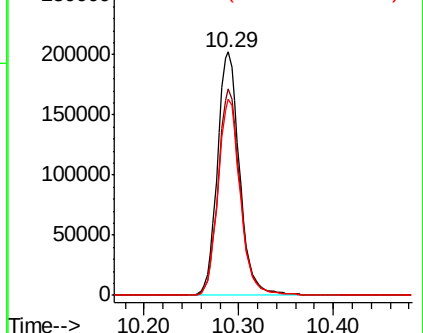
176 80.4 0.0 161.8



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: VU034172.D

Acq: 01 Sep 2019 16:29

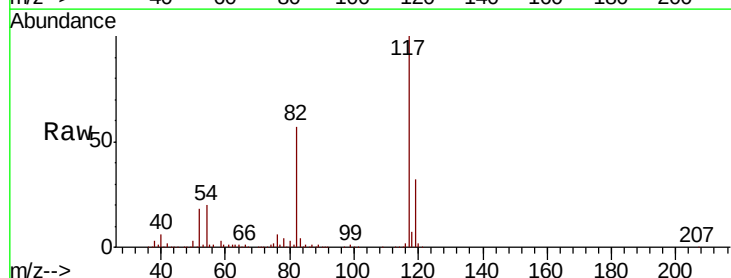
Tgt Ion: 117 Resp: 718880

Ion Ratio Lower Upper

117 100

82 57.1 45.1 67.7

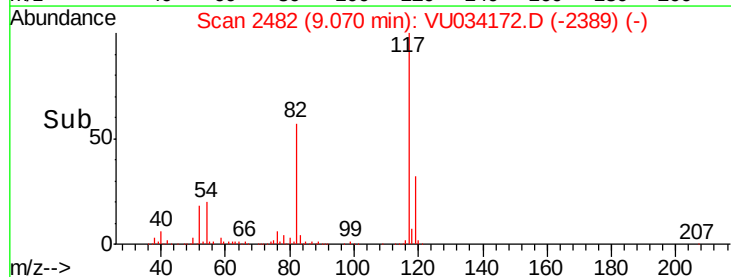
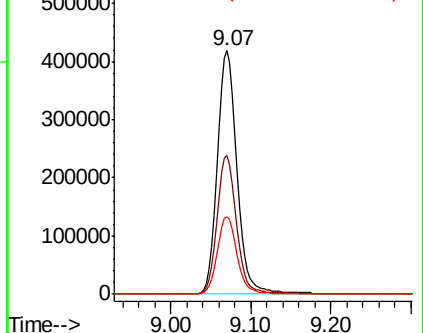
119 32.0 25.4 38.0

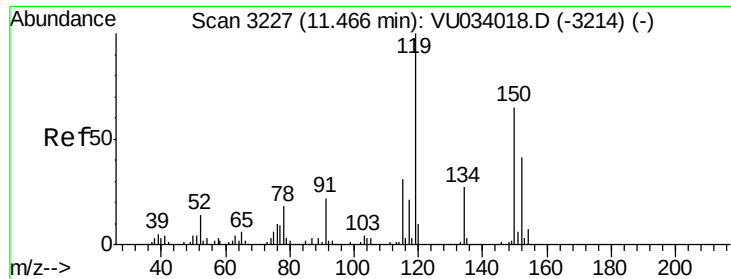


Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034018.D (-2468) (-)



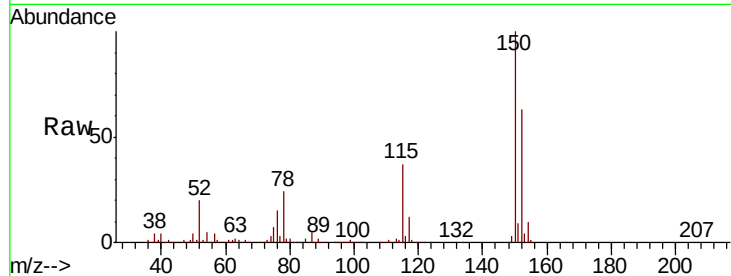


#72

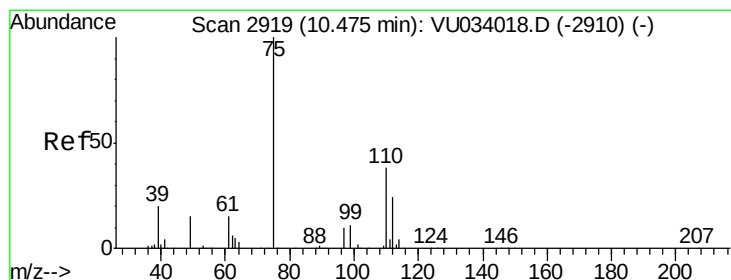
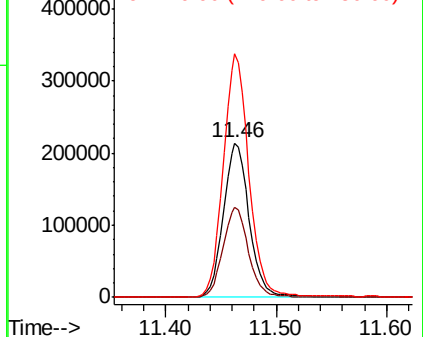
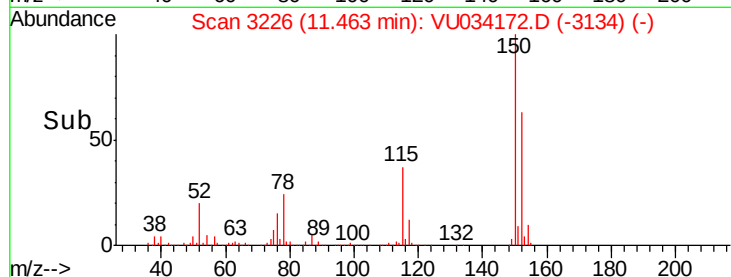
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034172.D
Acq: 01 Sep 2019 16:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:152 Resp: 347473
Ion Ratio Lower Upper
152 100
115 58.3 41.1 123.3
150 156.6 0.0 348.8



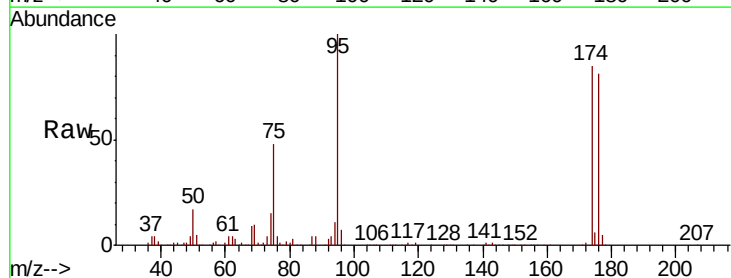
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



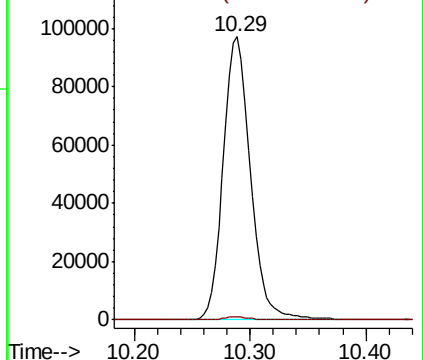
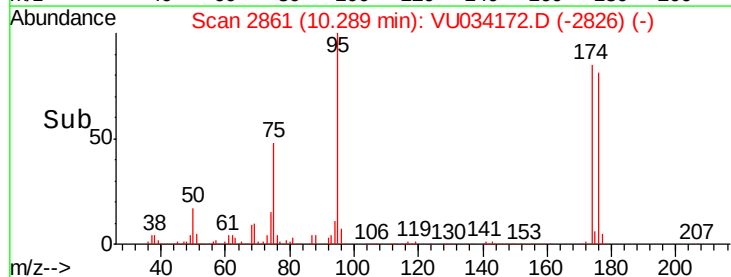
#76

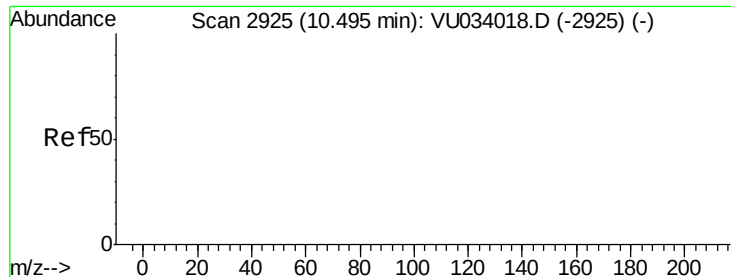
1,2,3-Trichloropropane
Concen: 20.179 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034172.D
Acq: 01 Sep 2019 16:29

Tgt Ion: 75 Resp: 158033
Ion Ratio Lower Upper
75 100
77 1.0 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

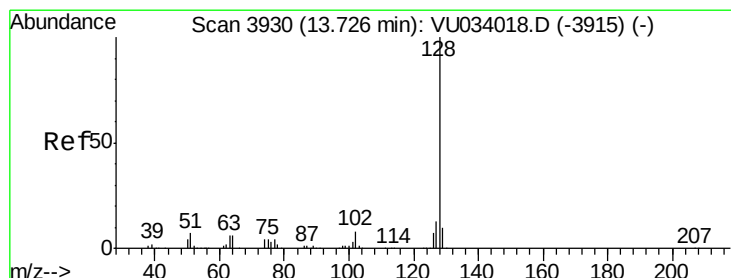
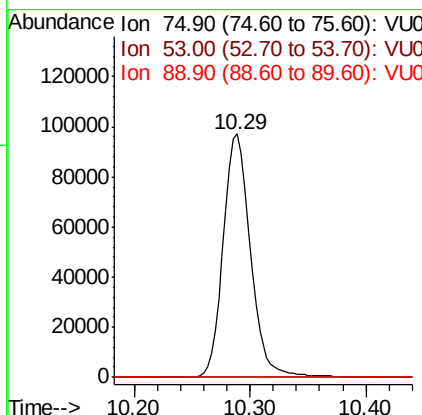
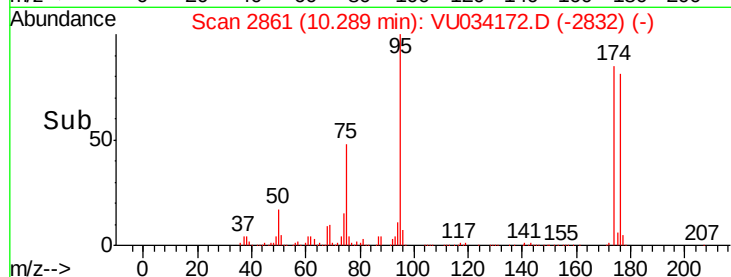
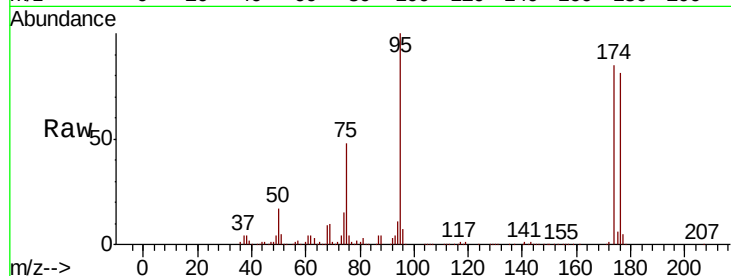




#81
trans-1,4-Dichloro-2-butene
Concen: 67.949 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034172.D
Acq: 01 Sep 2019 16:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 158033
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.808 ug/l
RT: 13.78 min Scan# 3947
Delta R.T. 0.05 min
Lab File: VU034172.D
Acq: 01 Sep 2019 16:29

Tgt Ion: 128 Resp: 405
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.4 12.6#

