

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120518\
 Data File : VU028472.D
 Acq On : 05 Dec 2018 12:06
 Operator : MD/SY
 Sample : J6208-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-1

Quant Time: Dec 06 01:31:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	405407	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	745566	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	690636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	316610	50.00	ug/l	0.00

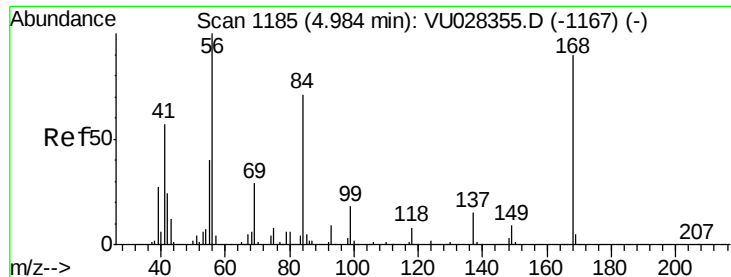
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	304588	44.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.92%	
35) Dibromofluoromethane	4.88	113	97495	19.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.34%	
50) Toluene-d8	7.57	98	958081	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
62) 4-Bromofluorobenzene	10.31	95	346221	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	2.84	59	1490	0.968	ug/l #	72
13) Acrolein	2.20	56	292	0.213	ug/l #	24
16) Acetone	2.32	43	136301	32.886	ug/l	100
18) Methyl Acetate	2.44	43	12766	1.106	ug/l #	58
20) Methylene Chloride	2.70	84	243174	41.585	ug/l	89
23) Vinyl Acetate	3.61	43	4502	0.243	ug/l #	77
25) 2-Butanone	4.29	43	12404	2.088	ug/l	98
29) Tetrahydrofuran	4.65	42	1099	0.285	ug/l #	56
31) Cyclohexane	4.98	56	9389	0.450	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	32156	3.941	ug/l #	51
37) Ethyl Acetate	4.29	43	12404	1.116	ug/l #	71
38) Carbon Tetrachloride	4.98	117	37640	5.618	ug/l #	16
48) Methyl methacrylate	6.54	41	16064	1.750	ug/l #	28
51) 4-Methyl-2-Pentanone	7.47	43	7227	0.642	ug/l	95
59) 2-Hexanone	8.38	43	2220	0.255	ug/l	85
76) 1,2,3-Trichloropropane	10.30	75	171002	19.477	ug/l #	33
80) 1,3,5-Trimethylbenzene	10.77	105	4643	0.224	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.30	75	171002	51.701	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	9244	0.440	ug/l	91
93) 1,2,4-Trichlorobenzene	13.50	180	2024	0.293	ug/l #	83
95) Naphthalene	13.74	128	47318	4.510	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

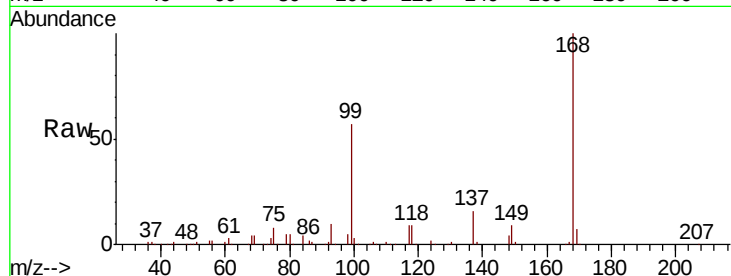
TP-1

Tot Ion:168 Resp: 405407

Ion Ratio Lower Upper

168 100

99 56.9 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028355.D (-1167) (-)

4.99

200000

150000

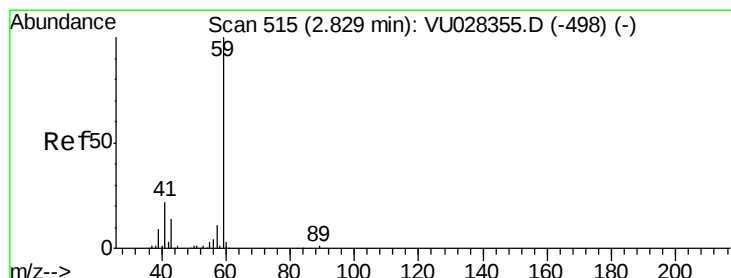
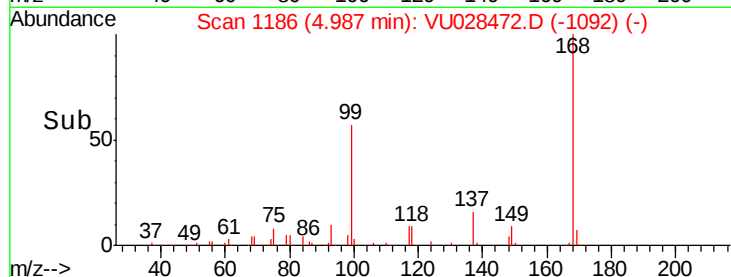
100000

50000

0

4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 0.968 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028472.D

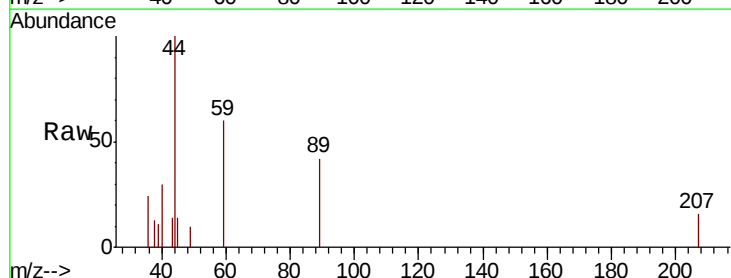
Acq: 05 Dec 2018 12:06

Tgt Ion: 59 Resp: 1490

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU028355.D (-498) (-)

Ion 57.00 (56.70 to 57.70): VU028355.D (-498) (-)

2.84

600

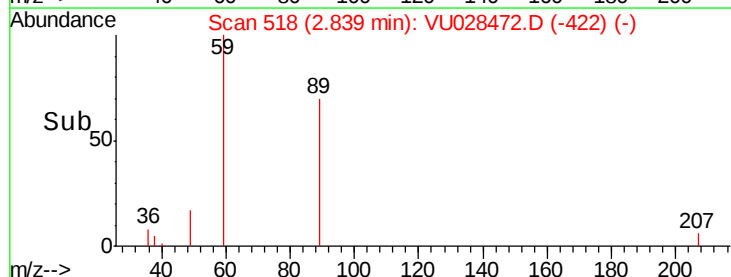
400

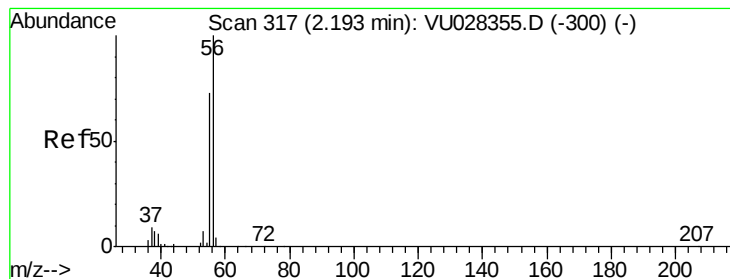
200

0

2.80 2.85 2.90

Time-->





#13

Acrolein

Concen: 0.213 ug/l

RT: 2.20 min Scan# 319

Delta R.T. 0.01 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

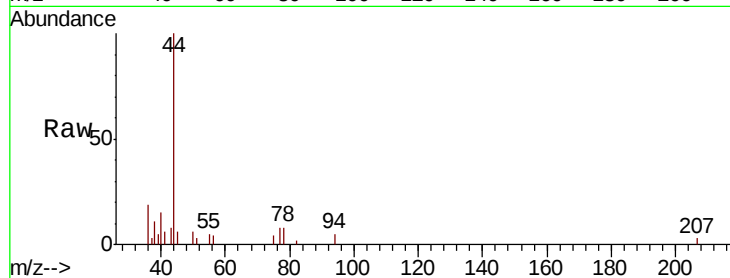
TP-1

Tot Ion: 56 Resp: 292

Ion Ratio Lower Upper

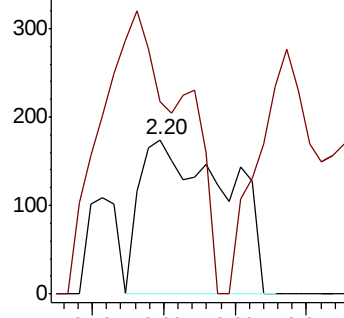
56 100

55 133.2 56.6 85.0#

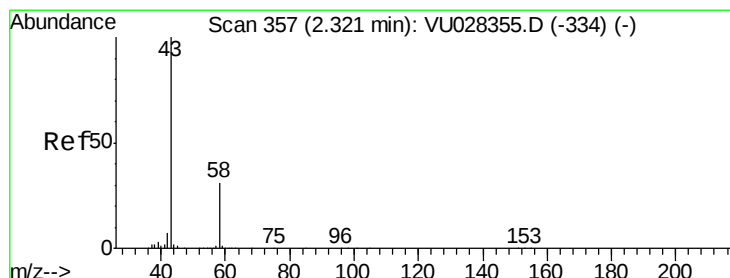
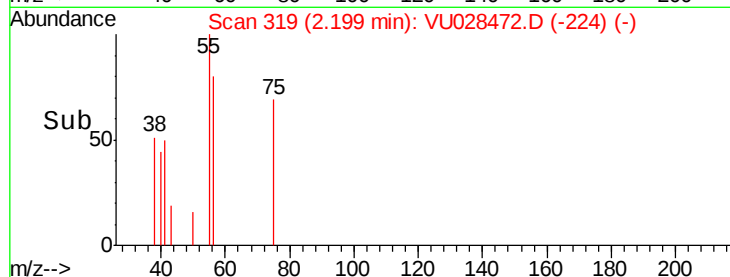


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



Time-->



#16

Acetone

Concen: 32.886 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028472.D

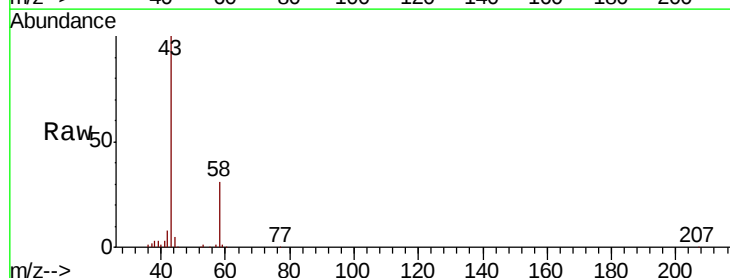
Acq: 05 Dec 2018 12:06

Tgt Ion: 43 Resp: 136301

Ion Ratio Lower Upper

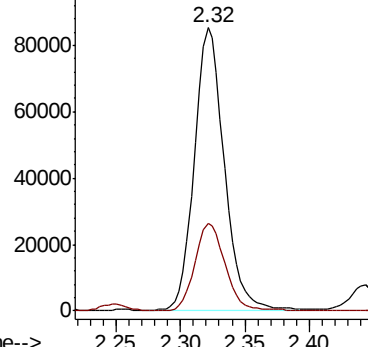
43 100

58 30.8 24.4 36.6

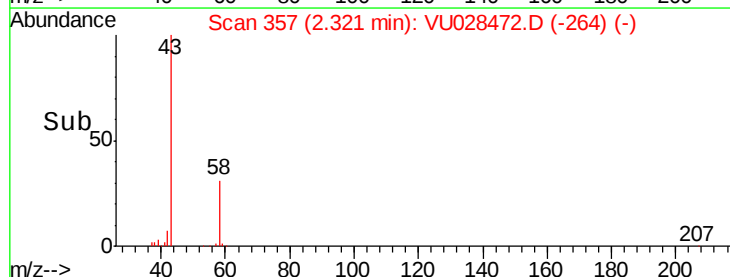


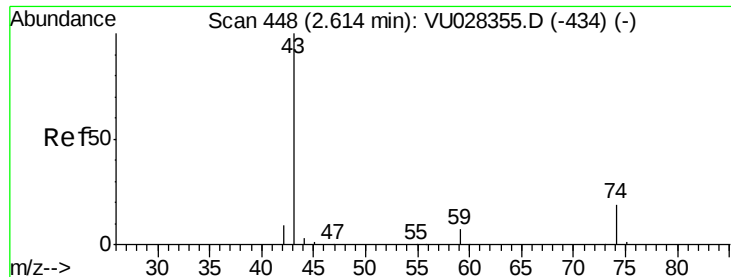
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->

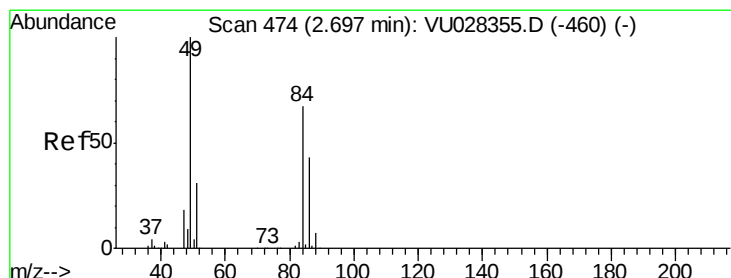
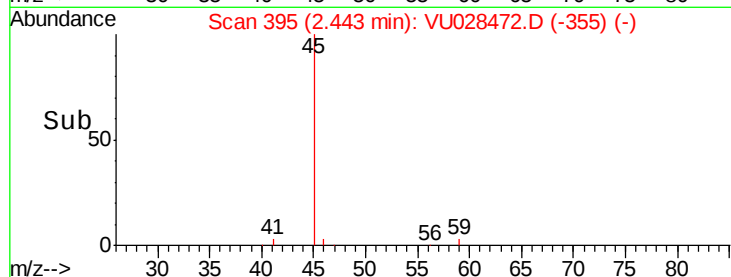
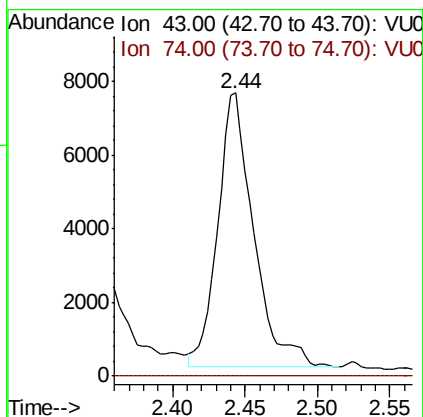
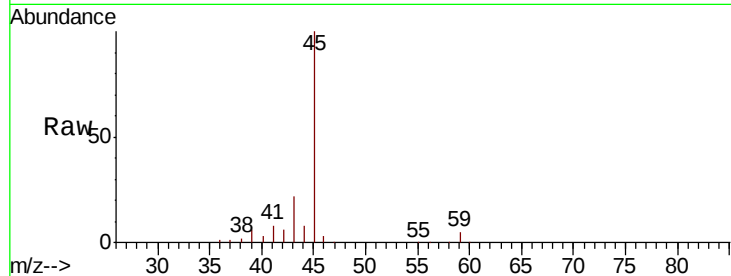




#18
Methvl Acetate
Concen: 1.106 ug/l
RT: 2.44 min Scan# 395
Delta R.T. -0.17 min
Lab File: VU028472.D
Acq: 05 Dec 2018 12:06

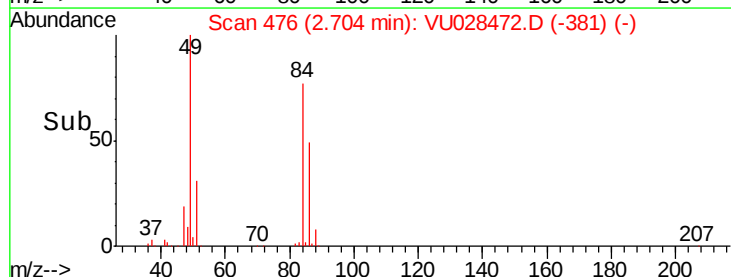
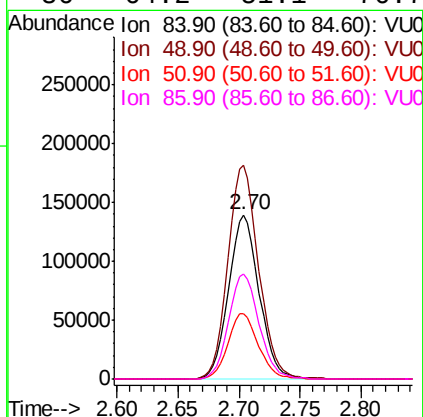
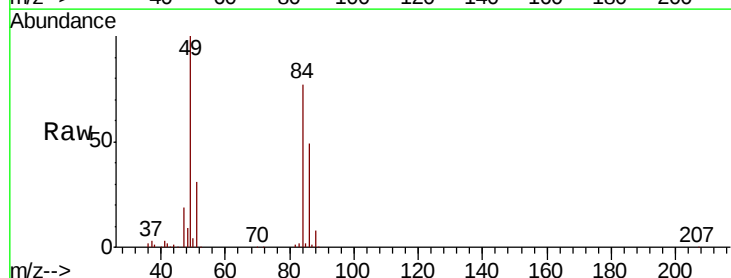
Instrument :
MSVOA_U
ClientSampleId :
TP-1

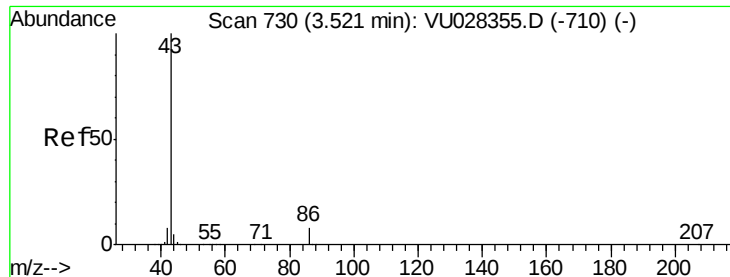
Tot Ion: 43 Resp: 12766
Ion Ratio Lower Upper
43 100
74 0.0 15.3 22.9#



#20
Methylene Chloride
Concen: 41.585 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU028472.D
Acq: 05 Dec 2018 12:06

Tgt Ion: 84 Resp: 243174
Ion Ratio Lower Upper
84 100
49 130.0 120.0 180.0
51 40.0 36.9 55.3
86 64.2 51.1 76.7

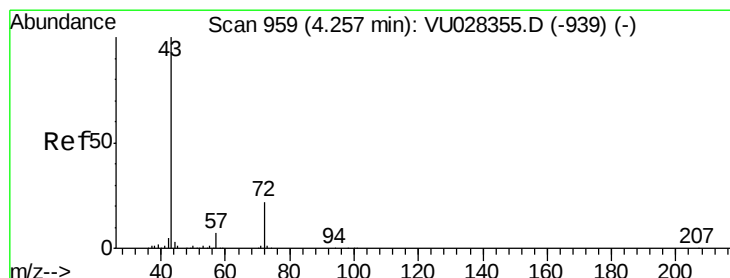
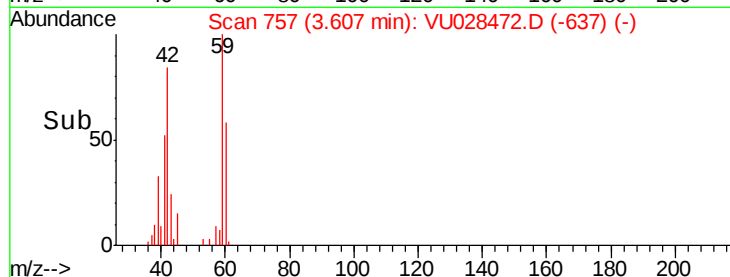
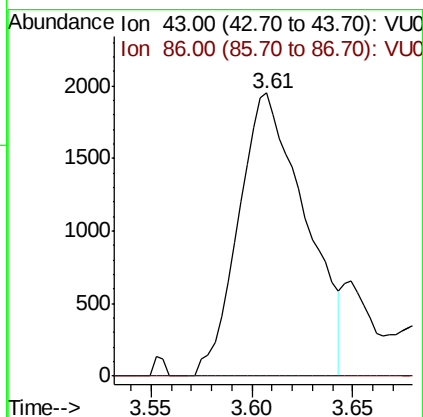
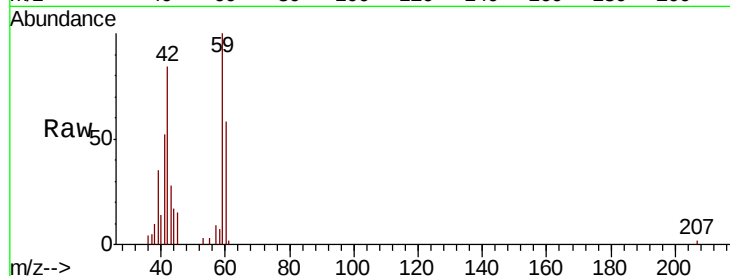




#23
 Vinyl Acetate
 Concen: 0.243 ug/l
 RT: 3.61 min Scan# 757
 Delta R.T. 0.09 min
 Lab File: VU028472.D
 Acq: 05 Dec 2018 12:06

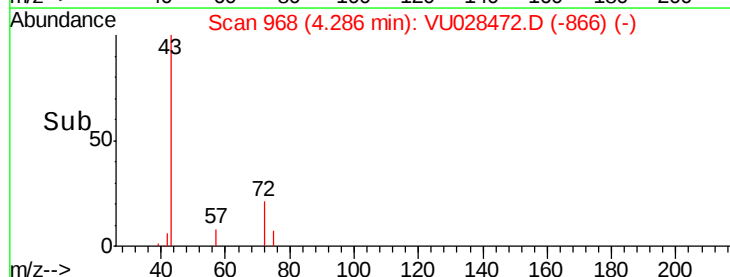
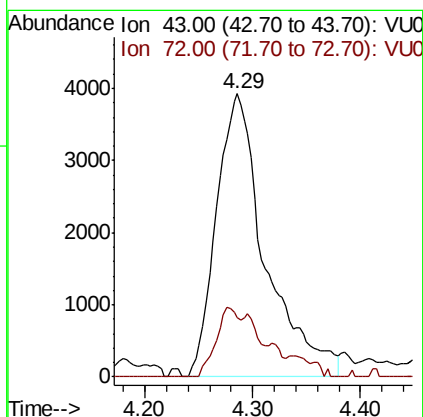
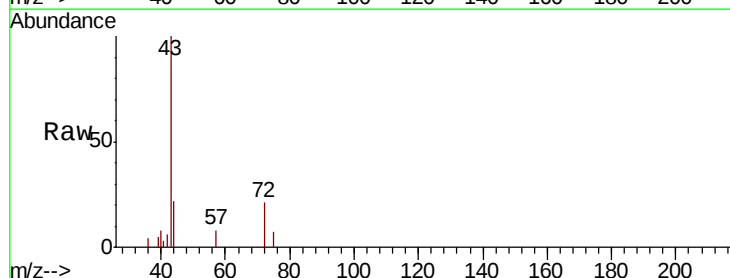
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-1

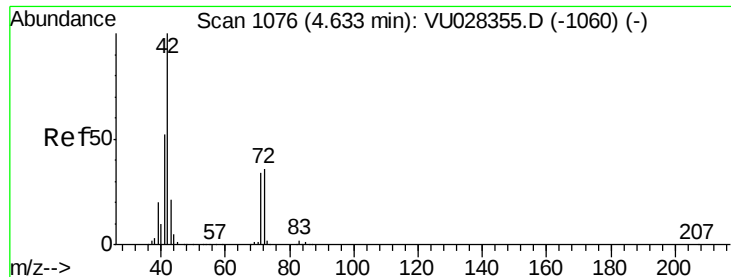
Tot Ion: 43 Resp: 4502
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.5 9.7#



#25
 2-Butanone
 Concen: 2.088 ug/l
 RT: 4.29 min Scan# 968
 Delta R.T. 0.03 min
 Lab File: VU028472.D
 Acq: 05 Dec 2018 12:06

Tgt Ion: 43 Resp: 12404
 Ion Ratio Lower Upper
 43 100
 72 21.1 17.7 26.5





#29

Tetrahydrofuran

Concen: 0.285 ug/l

RT: 4.65 min Scan# 1081

Delta R.T. 0.02 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

TP-1

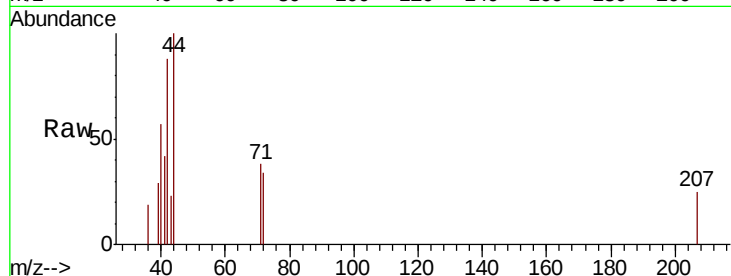
Tot Ion: 42 Resp: 1099

Ion Ratio Lower Upper

42 100

72 0.0 29.5 44.3#

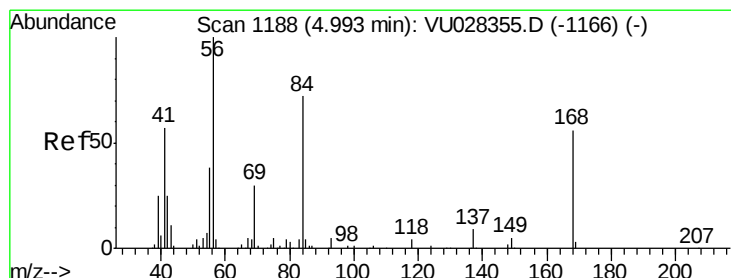
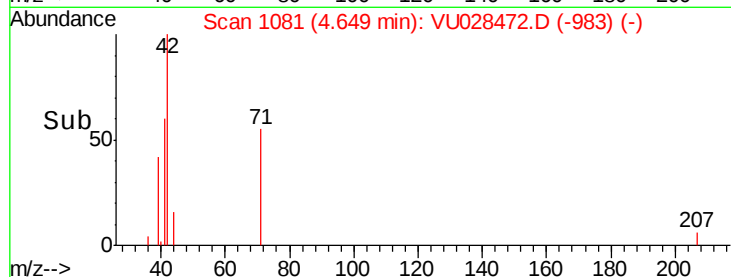
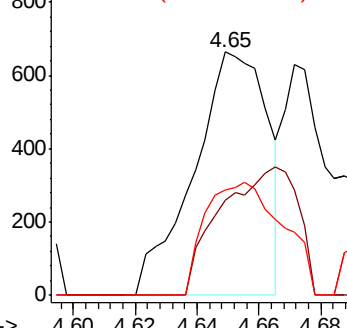
71 48.6 27.7 41.5#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#31

Cyclohexane

Concen: 0.450 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

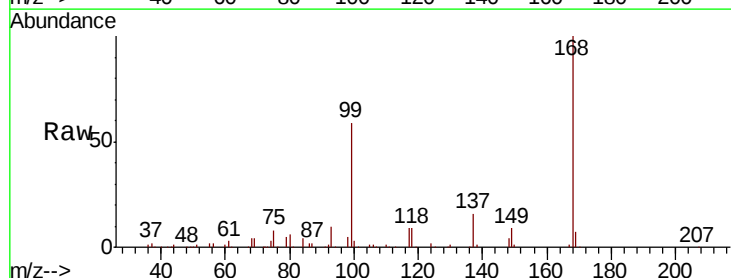
Tgt Ion: 56 Resp: 9389

Ion Ratio Lower Upper

56 100

69 171.8 23.7 35.5#

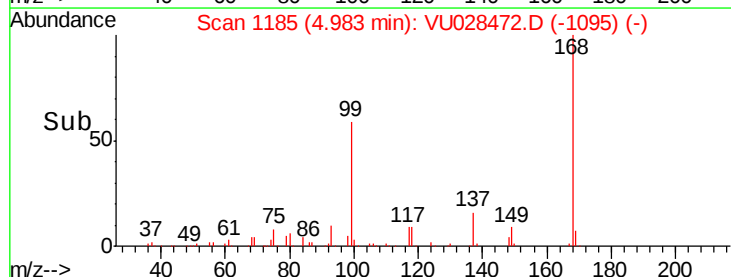
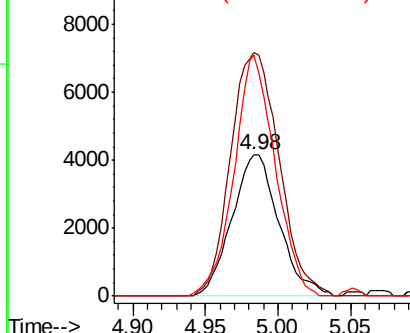
84 169.8 57.3 85.9#

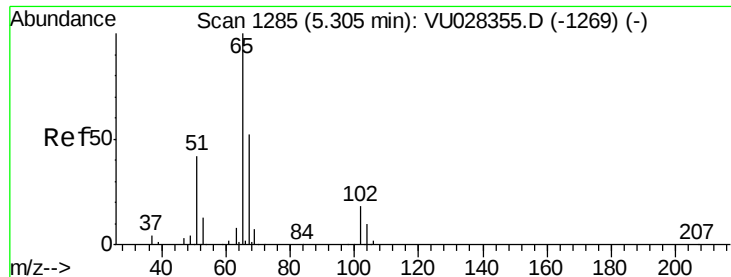


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#33

1,2-Dichloroethane-d4

Concen: 44.955 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

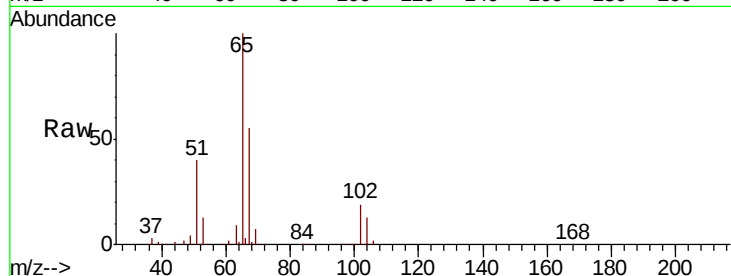
TP-1

Tot Ion: 65 Resp: 304588

Ion Ratio Lower Upper

65 100

67 55.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VU028355.D (-1269) (-)

Ion 66.90 (66.60 to 67.60): VU028355.D (-1269) (-)

5.31

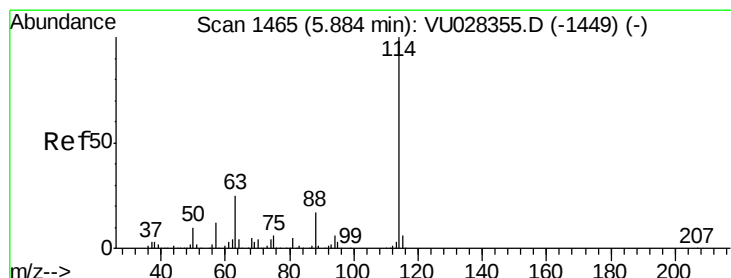
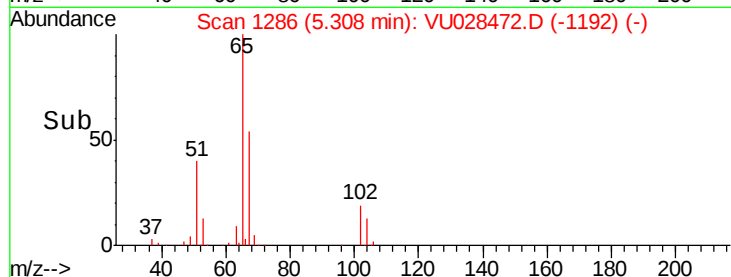
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

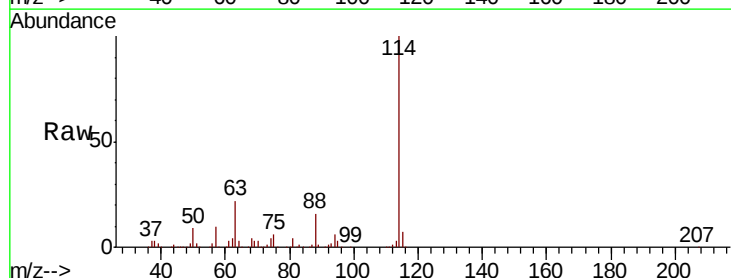
Tgt Ion: 114 Resp: 745566

Ion Ratio Lower Upper

114 100

63 22.5 0.0 50.0

88 16.4 0.0 34.4



Abundance Ion 113.90 (113.60 to 114.60): VU028355.D (-1449) (-)

Ion 63.00 (62.70 to 63.70): VU028355.D (-1449) (-)

Ion 87.90 (87.60 to 88.60): VU028355.D (-1449) (-)

500000

400000

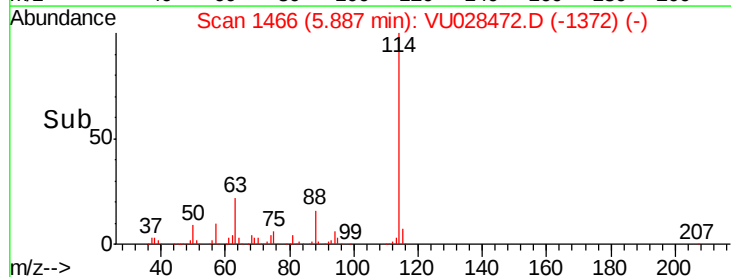
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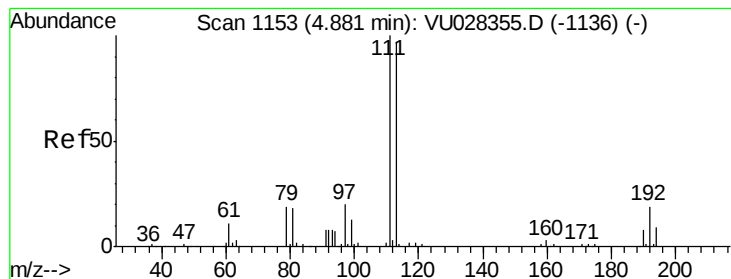
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 19.665 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

TP-1

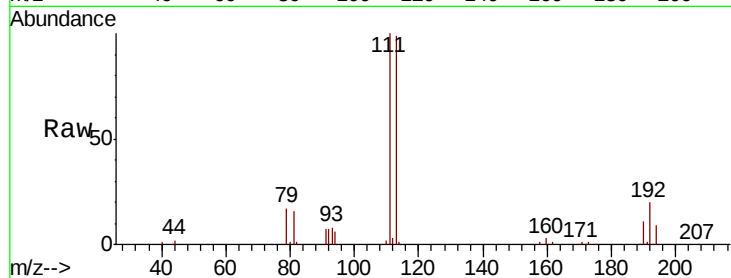
Tot Ion:113 Resp: 97495

Ion Ratio Lower Upper

113 100

111 104.9 82.9 124.3

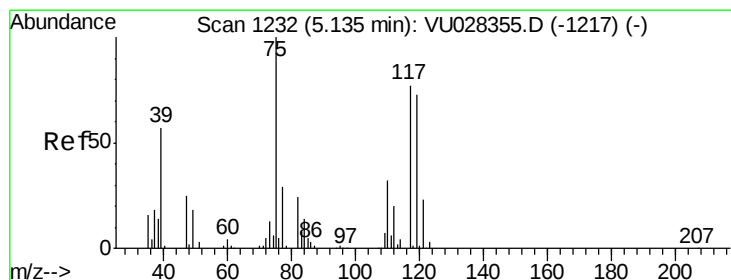
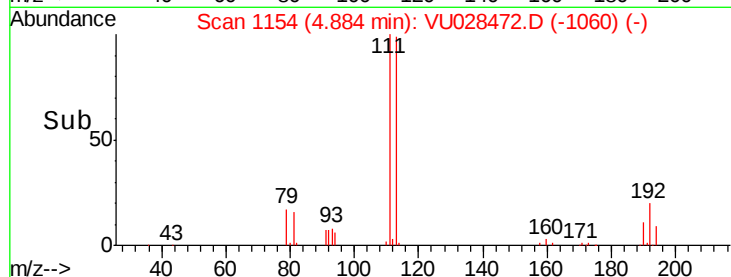
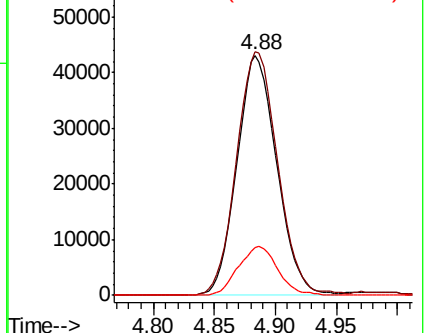
192 20.2 15.4 23.0



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: 3.941 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

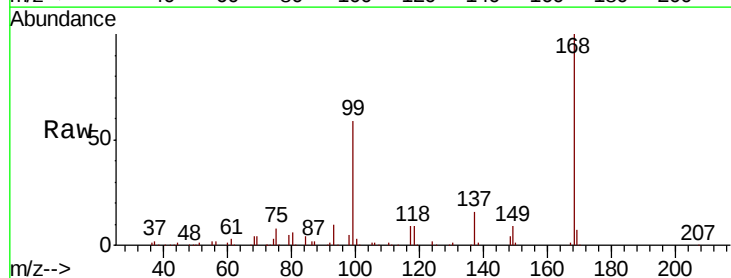
Tgt Ion: 75 Resp: 32156

Ion Ratio Lower Upper

75 100

110 7.9 15.8 47.4#

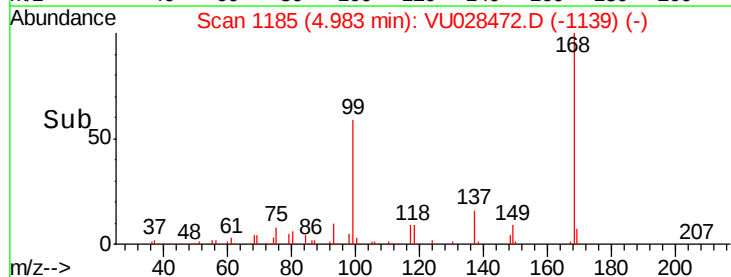
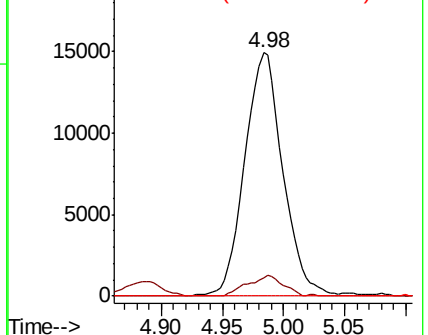
77 0.0 24.6 36.8#

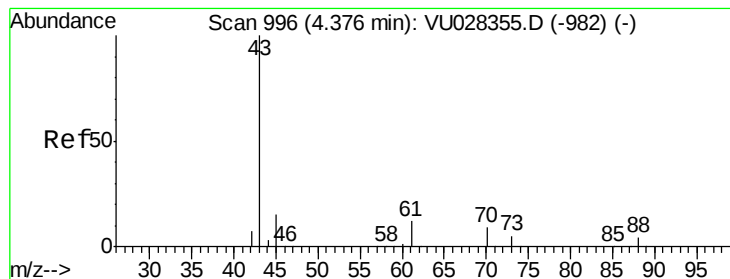


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#37

Ethyl Acetate

Concen: 1.116 ug/l

RT: 4.29 min Scan# 968

Delta R.T. -0.09 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

TP-1

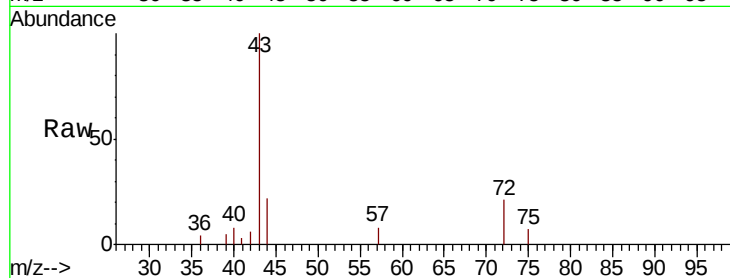
Tot Ion: 43 Resp: 12404

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

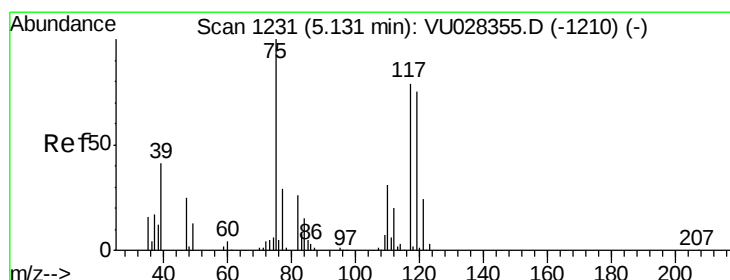
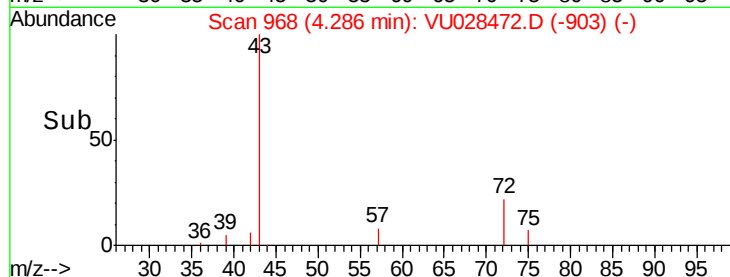
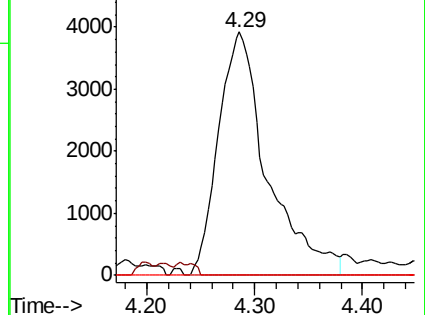
70 0.0 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-982) (-)

Ion 60.90 (60.60 to 61.60): VU028355.D (-982) (-)

Ion 70.00 (69.70 to 70.70): VU028355.D (-982) (-)



#38

Carbon Tetrachloride

Concen: 5.618 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

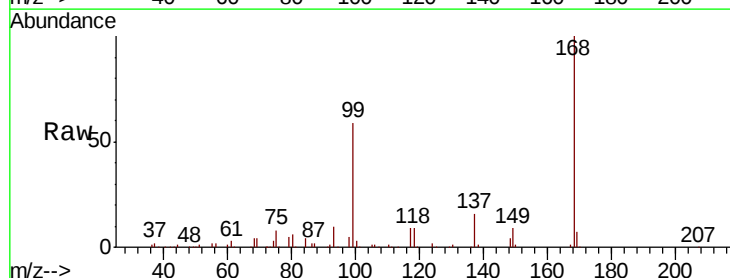
Tgt Ion: 117 Resp: 37640

Ion Ratio Lower Upper

117 100

119 4.9 76.3 114.5#

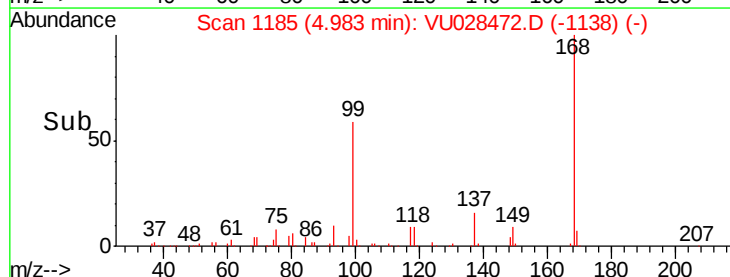
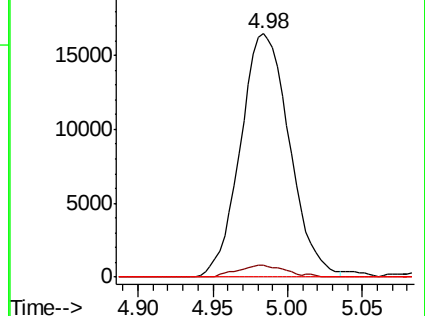
121 0.0 24.7 37.1#

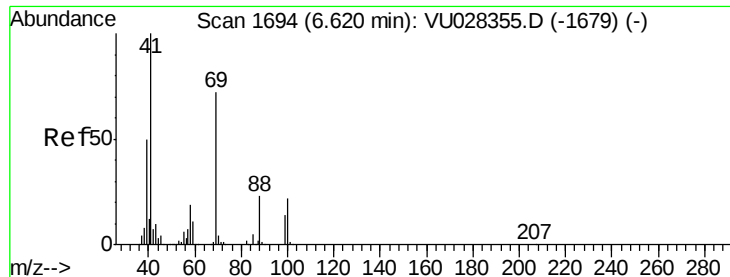


Abundance Ion 116.80 (116.50 to 117.50): VU028355.D (-1210) (-)

Ion 118.80 (118.50 to 119.50): VU028355.D (-1210) (-)

Ion 120.80 (120.50 to 121.50): VU028355.D (-1210) (-)





#48

Methvl methacrylate

Concen: 1.750 ug/l

RT: 6.54 min Scan# 1668

Delta R.T. -0.08 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

TP-1

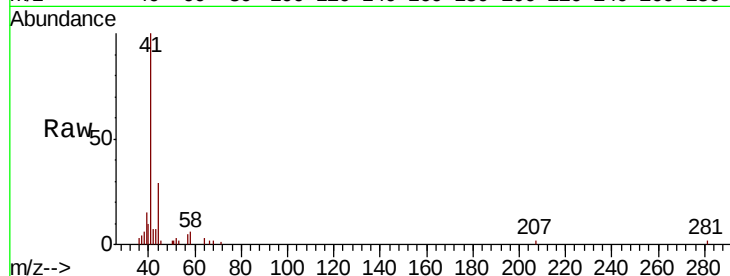
Tot Ion: 41 Resp: 16064

Ion Ratio Lower Upper

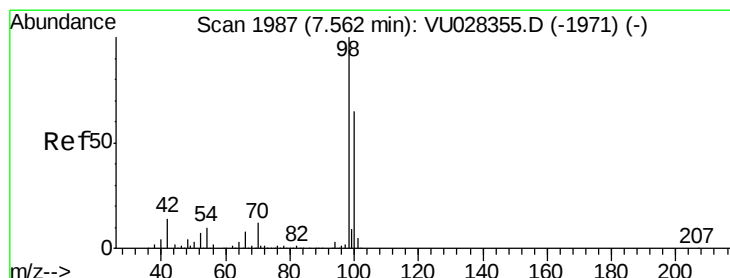
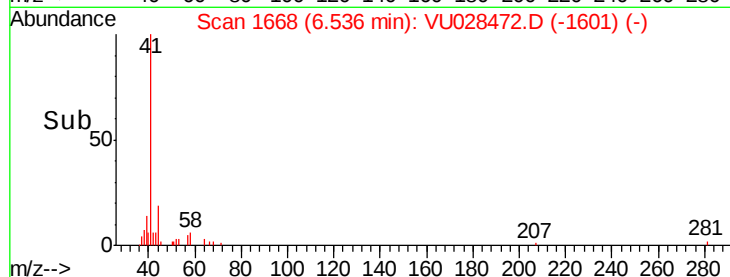
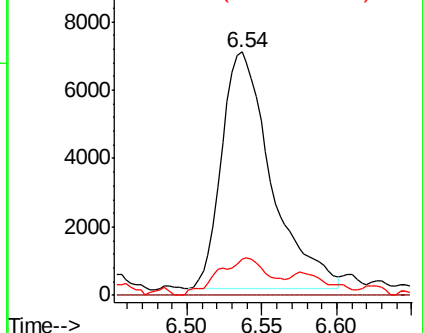
41 100

69 0.0 59.0 88.4#

39 15.9 40.5 60.7#



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 48.321 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028472.D

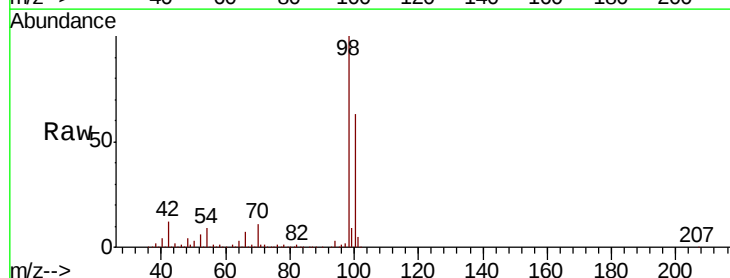
Acq: 05 Dec 2018 12:06

Tgt Ion: 98 Resp: 958081

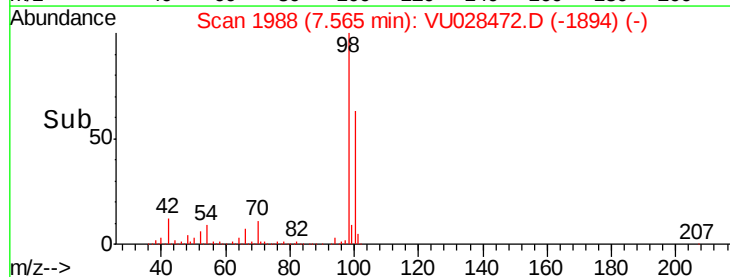
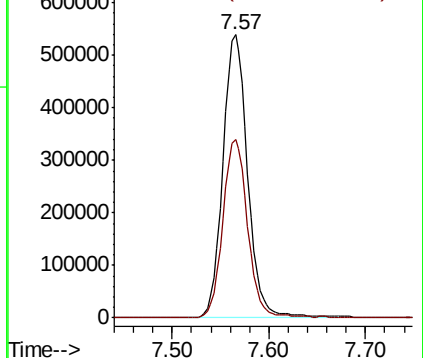
Ion Ratio Lower Upper

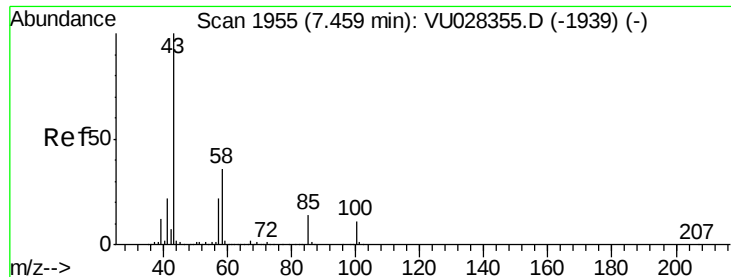
98 100

100 63.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.642 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

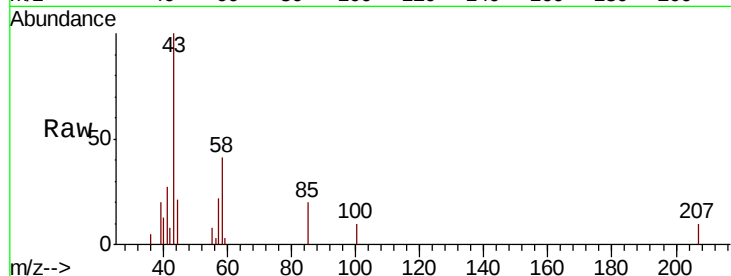
TP-1

Tot Ion: 43 Resp: 7227

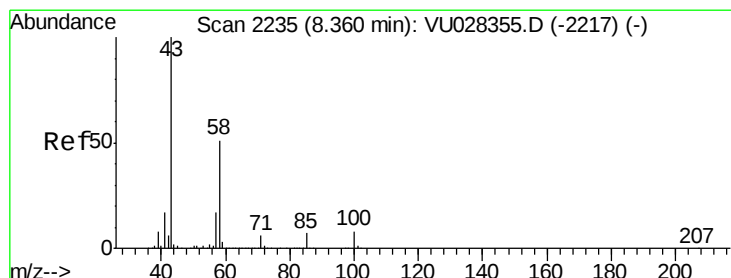
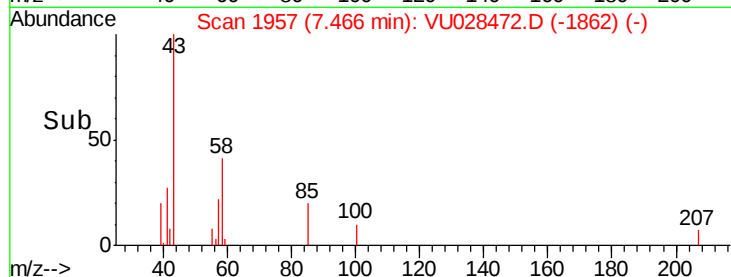
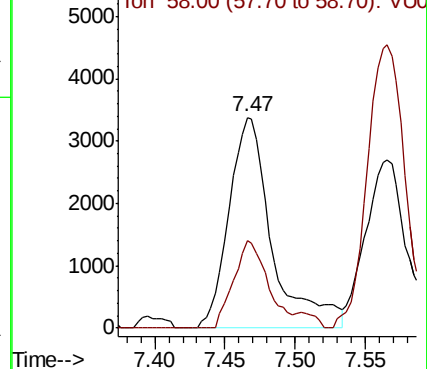
Ion Ratio Lower Upper

43 100

58 32.9 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-1939) (-)



#59

2-Hexanone

Concen: 0.255 ug/l

RT: 8.38 min Scan# 2241

Delta R.T. 0.02 min

Lab File: VU028472.D

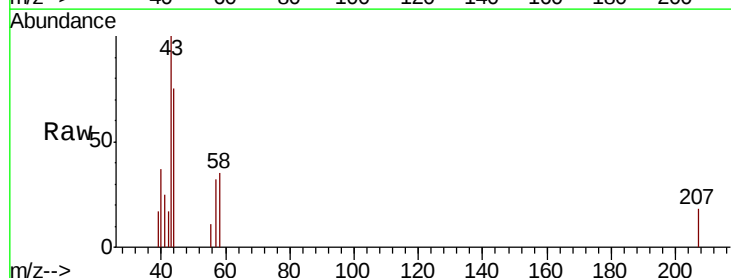
Acq: 05 Dec 2018 12:06

Tgt Ion: 43 Resp: 2220

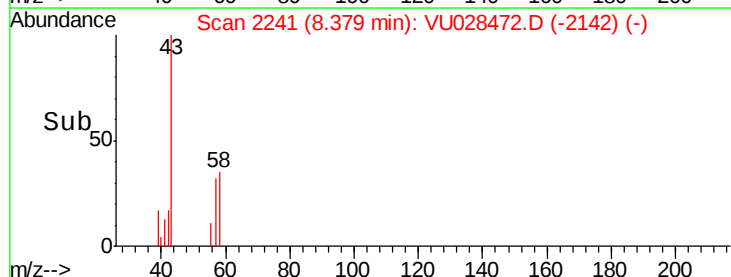
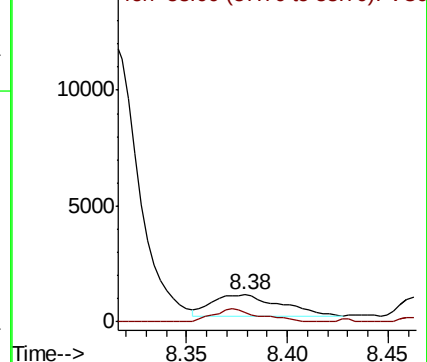
Ion Ratio Lower Upper

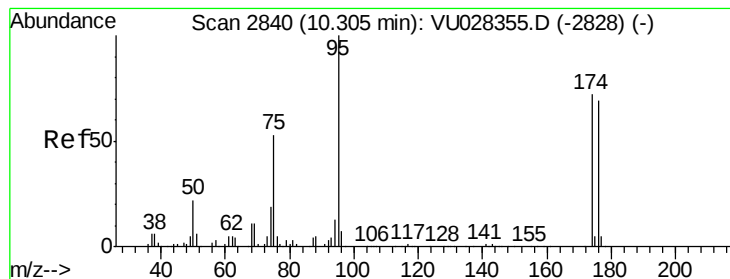
43 100

58 40.3 25.5 76.5



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-2217) (-)





#62

4-Bromofluorobenzene

Concen: 48.447 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

TP-1

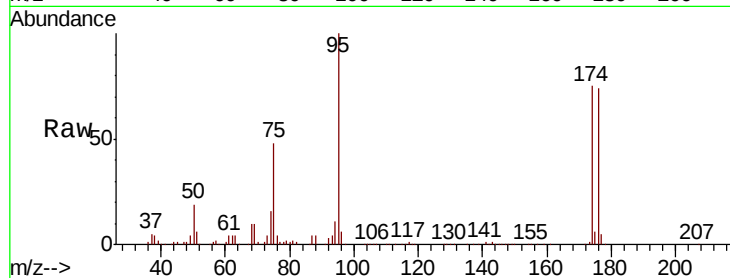
Tot Ion: 95 Resp: 346221

Ion Ratio Lower Upper

95 100

174 75.4 0.0 145.4

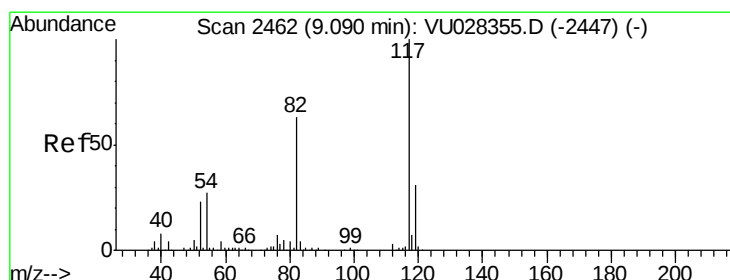
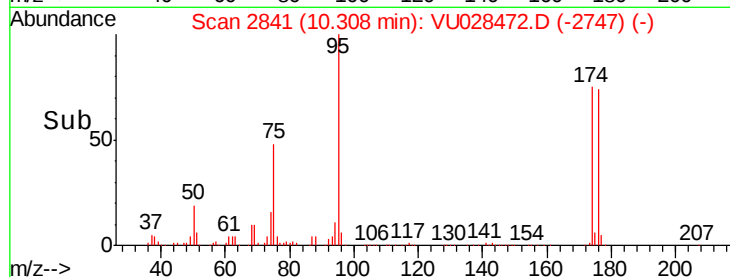
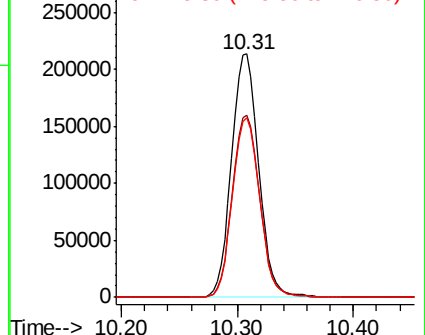
176 74.3 0.0 140.8



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: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

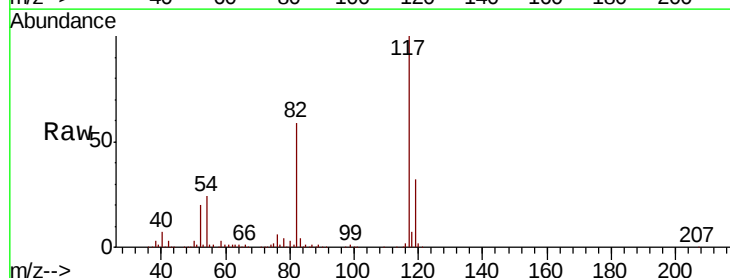
Tgt Ion: 117 Resp: 690636

Ion Ratio Lower Upper

117 100

82 59.1 50.3 75.5

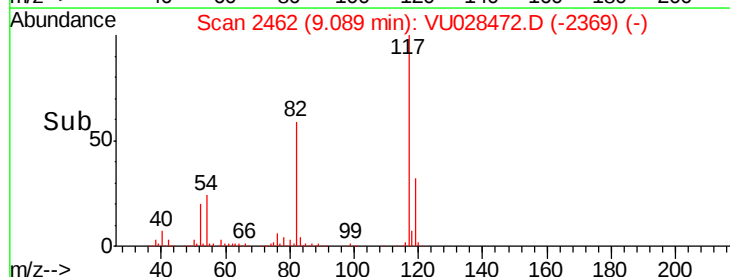
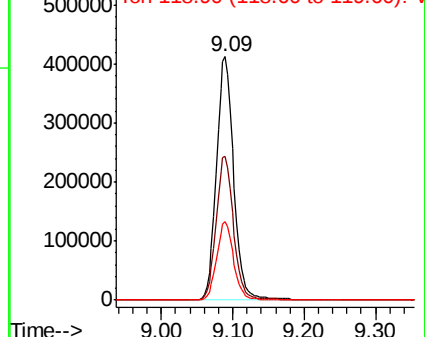
119 32.0 24.8 37.2

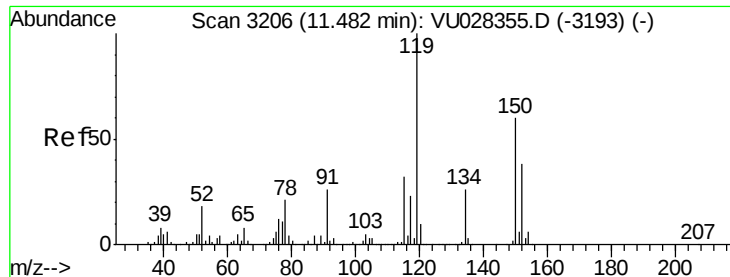


Abundance Ion 116.90 (116.60 to 117.60): V

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: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

TP-1

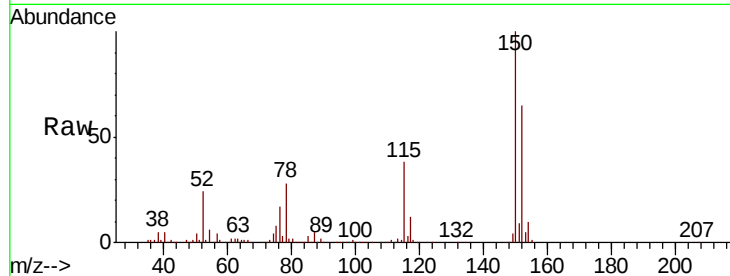
Tot Ion:152 Resp: 316610

Ion Ratio Lower Upper

152 100

115 59.5 45.0 134.8

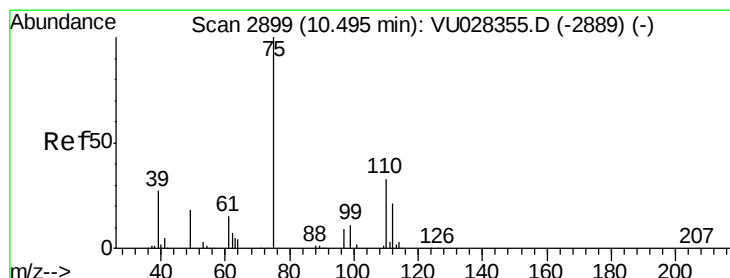
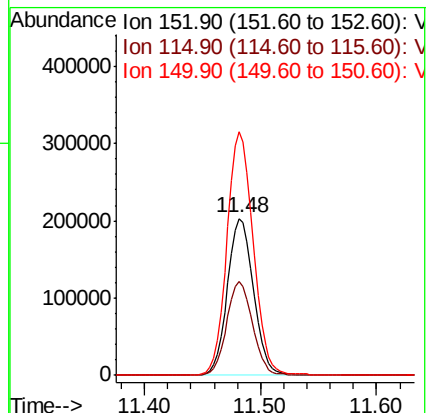
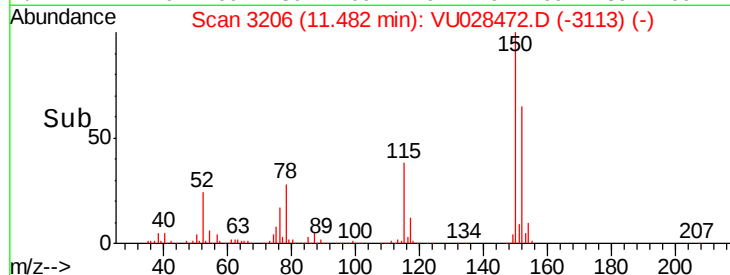
150 156.6 0.0 349.2



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: 19.477 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028472.D

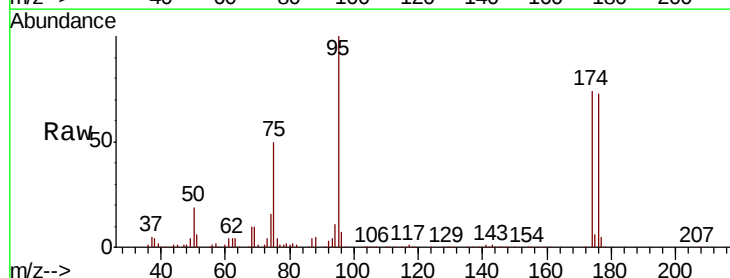
Acq: 05 Dec 2018 12:06

Tgt Ion: 75 Resp: 171002

Ion Ratio Lower Upper

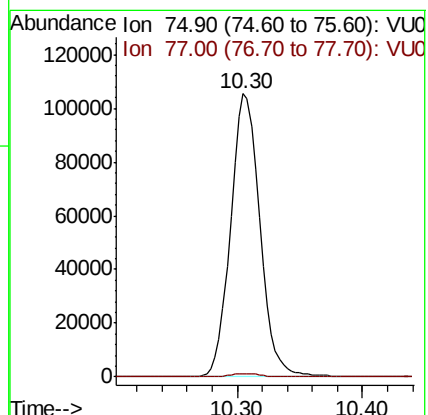
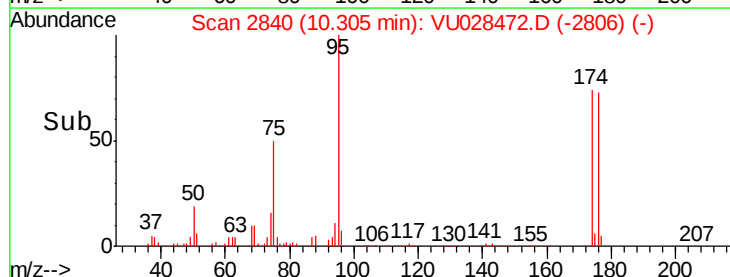
75 100

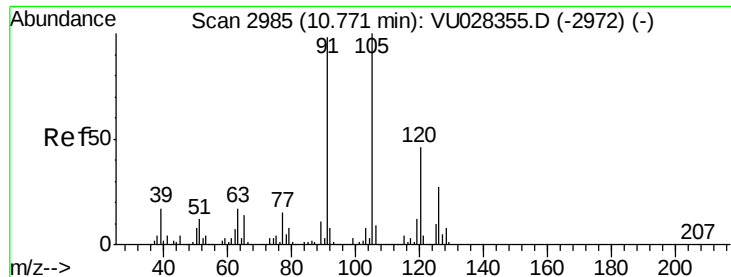
77 1.2 22.4 67.0#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.224 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

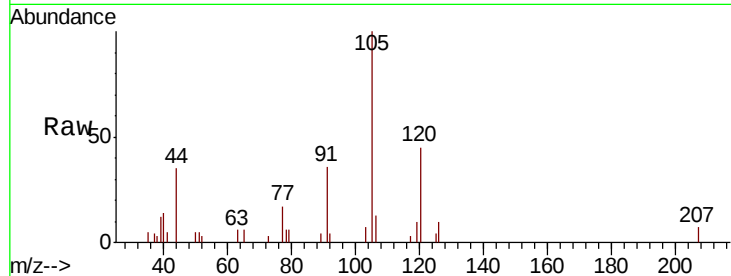
TP-1

Tot Ion:105 Resp: 4643

Ion Ratio Lower Upper

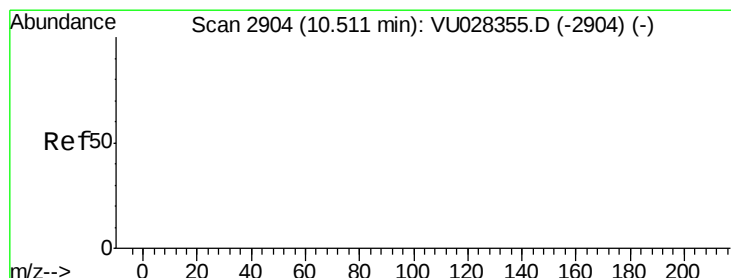
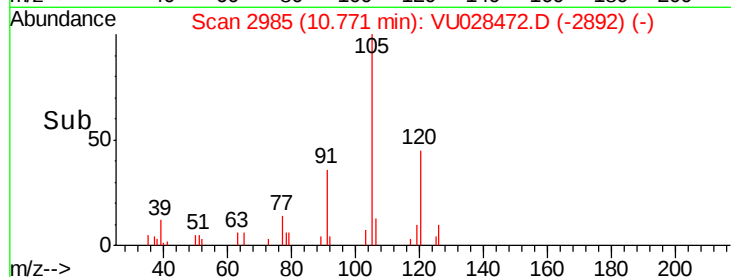
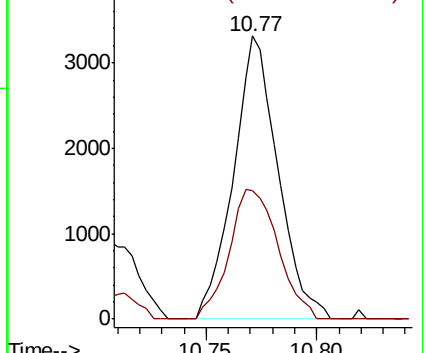
105 100

120 50.1 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 51.701 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

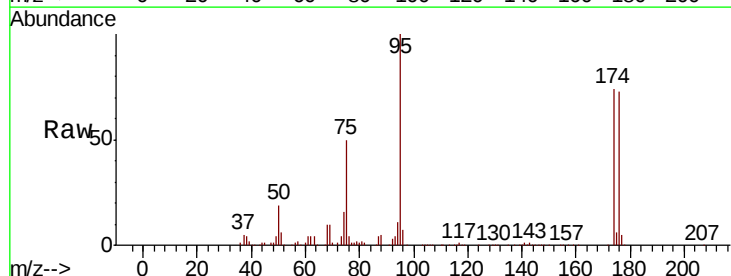
Tgt Ion: 75 Resp: 171002

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

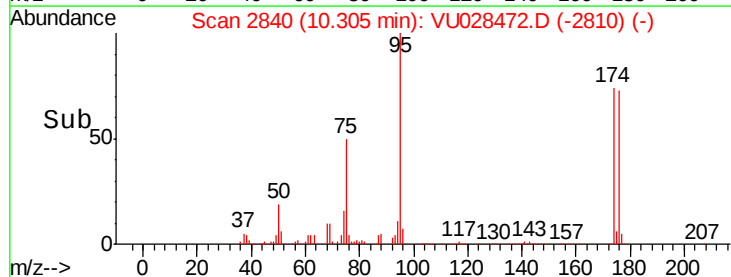
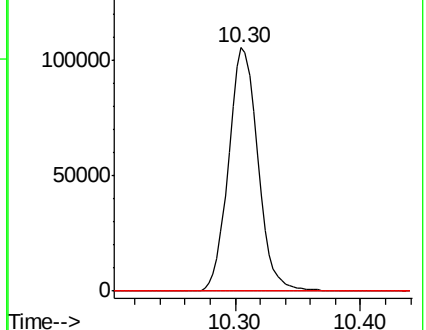
89 0.0 0.0 0.0

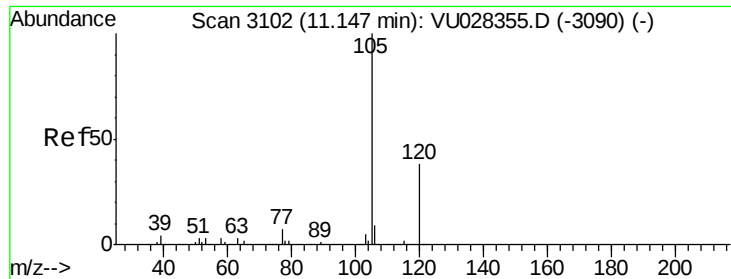


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

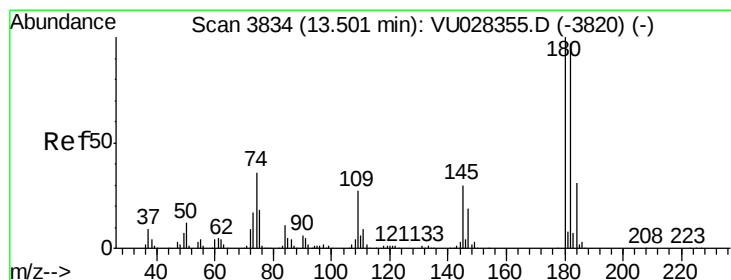
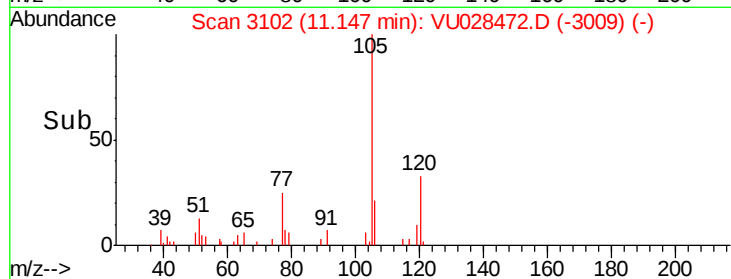
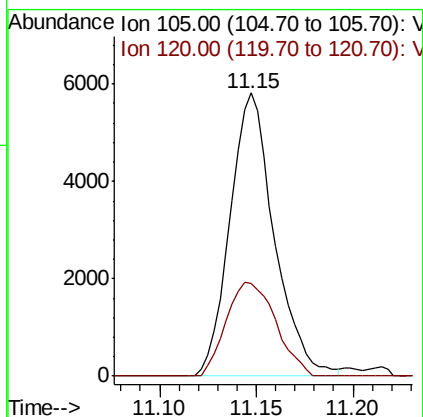
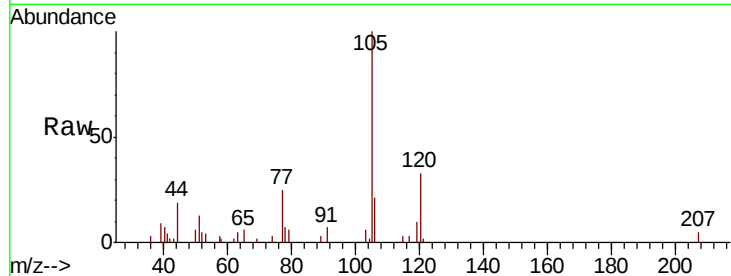




#84
 1,2,4-Trimethylbenzene
 Concen: 0.440 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU028472.D
 Acq: 05 Dec 2018 12:06

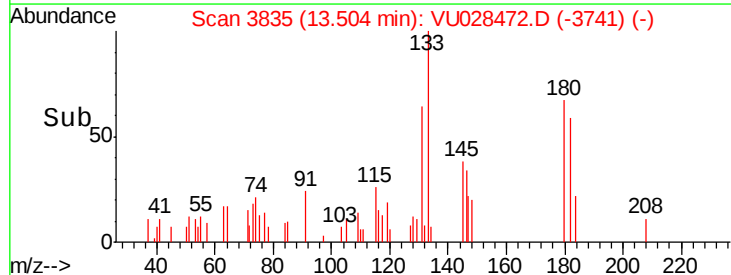
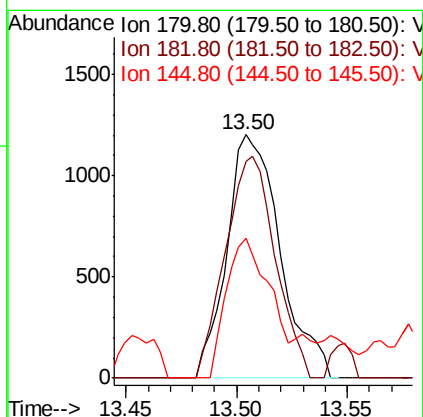
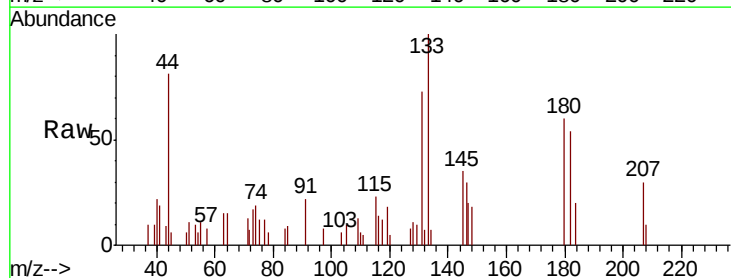
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-1

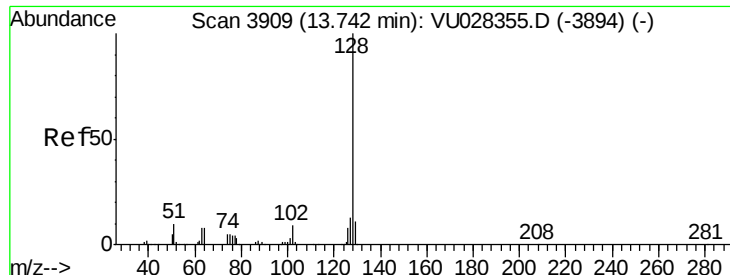
Tot Ion:105 Resp: 9244
 Ion Ratio Lower Upper
 105 100
 120 37.1 21.4 64.3



#93
 1,2,4-Trichlorobenzene
 Concen: 0.293 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028472.D
 Acq: 05 Dec 2018 12:06

Tgt Ion:180 Resp: 2024
 Ion Ratio Lower Upper
 180 100
 182 85.0 48.3 144.9
 145 49.1 15.2 45.5#





#95

Naphthalene

Concen: 4.510 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028472.D

Acq: 05 Dec 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

TP-1

Tot Ion:128 Resp: 47318

Ion Ratio Lower Upper

128 100

127 11.7 10.6 15.8

129 11.0 8.6 12.8

