

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120518\
 Data File : VU028474.D
 Acq On : 05 Dec 2018 12:52
 Operator : MD/SY
 Sample : J6208-14
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

Quant Time: Dec 06 01:32:18 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	4.98	168	401212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	731369	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	685624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	334218	50.00	ug/l	0.00

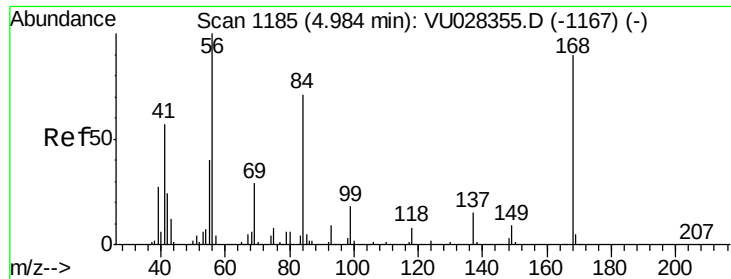
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	304635	45.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.86%	
35) Dibromofluoromethane	4.88	113	92886	19.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.20%	
50) Toluene-d8	7.57	98	932005	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
62) 4-Bromofluorobenzene	10.31	95	351885	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	2.84	59	1219	0.800	ug/l #	82
16) Acetone	2.32	43	156843	38.238	ug/l	96
18) Methyl Acetate	2.44	43	11820	1.035	ug/l #	58
20) Methylene Chloride	2.70	84	54643	9.385	ug/l	87
23) Vinyl Acetate	3.61	43	4891	0.267	ug/l #	77
25) 2-Butanone	4.28	43	14610	2.485	ug/l	99
29) Tetrahydrofuran	4.66	42	1682	0.441	ug/l #	46
31) Cyclohexane	4.98	56	8444	0.374	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	33109	4.137	ug/l #	50
37) Ethyl Acetate	4.28	43	14610	1.340	ug/l #	71
38) Carbon Tetrachloride	4.98	117	37417	5.693	ug/l #	16
48) Methyl methacrylate	6.53	41	19178	2.130	ug/l #	28
51) 4-Methyl-2-Pentanone	7.47	43	6691	0.606	ug/l	96
59) 2-Hexanone	8.38	43	2483	0.290	ug/l	64
76) 1,2,3-Trichloropropane	10.30	75	172891	18.654	ug/l #	33
81) trans-1,4-Dichloro-2-buten	10.30	75	172891	49.518	ug/l #	100
90) Hexachloroethane	12.25	117	1192	0.350	ug/l #	12
95) Naphthalene	13.75	128	24806	3.667	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028474.D

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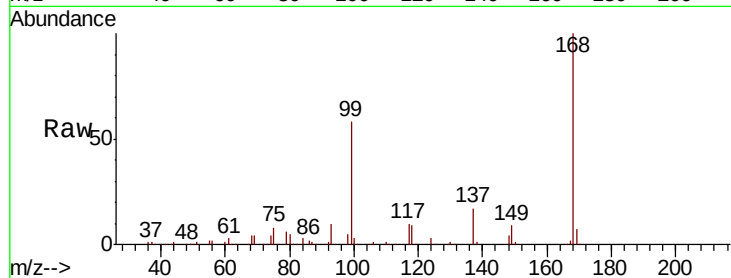
Instrument :
MSVOA_U
ClientSampled :
TP-4

Tot Ion:168 Resp: 401212

Ion Ratio Lower Upper

168 100

99 57.9 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

4.98

200000

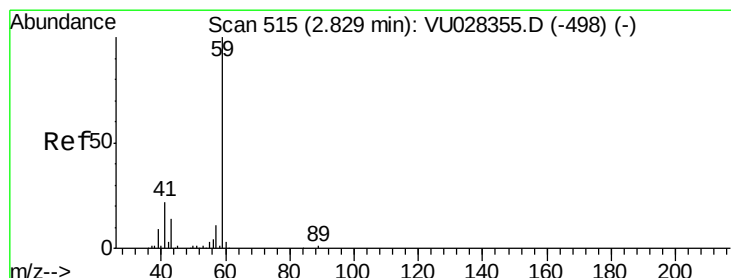
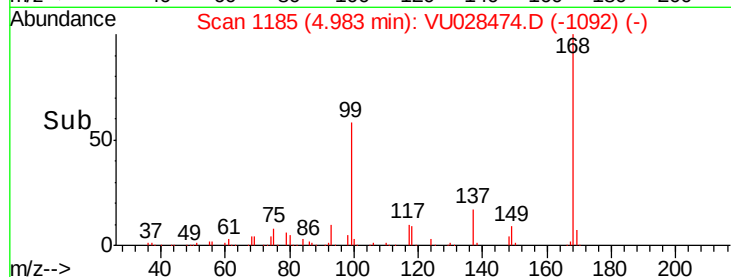
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.800 ug/l

RT: 2.84 min Scan# 515

Delta R.T. 0.01 min

Lab File: VU028474.D

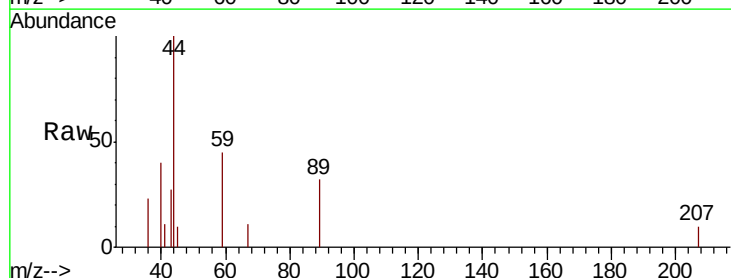
Acq: 05 Dec 2018 12:52

Tgt Ion: 59 Resp: 1219

Ion Ratio Lower Upper

59 100

57 3.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.84

600

500

400

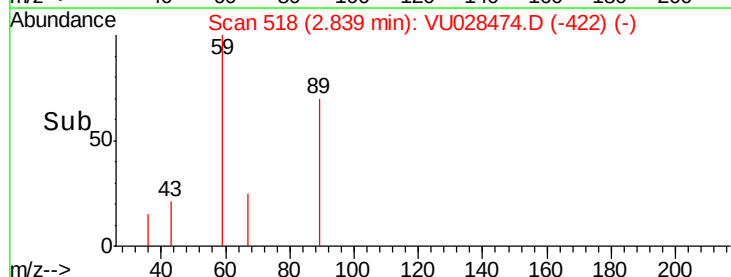
300

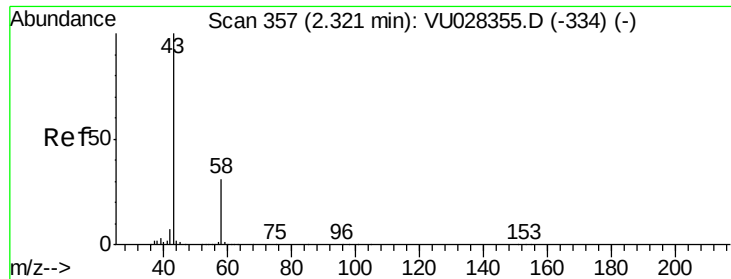
200

100

0

Time-->





#16

Acetone

Concen: 38.238 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

Instrument :

MSVOA_U

ClientSampled :

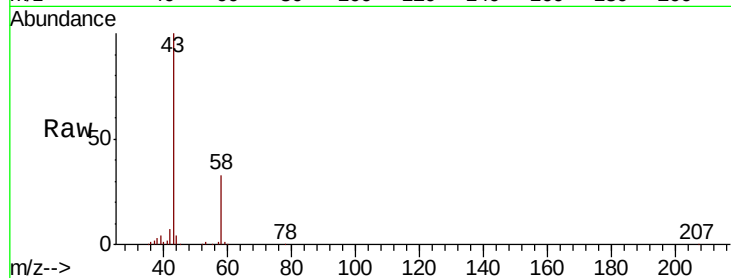
TP-4

Tot Ion: 43 Resp: 156843

Ion Ratio Lower Upper

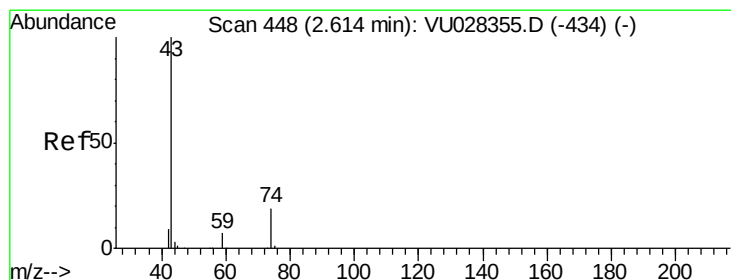
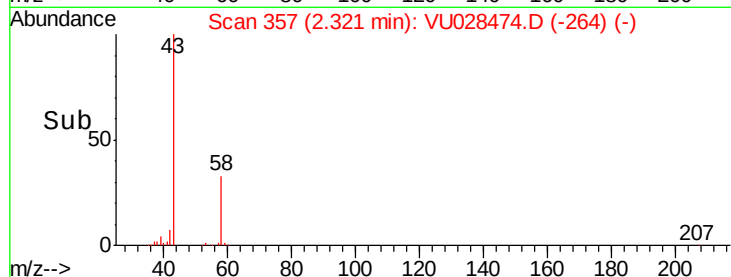
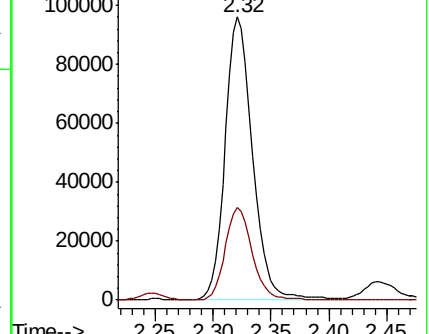
43 100

58 32.5 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 1.035 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.17 min

Lab File: VU028474.D

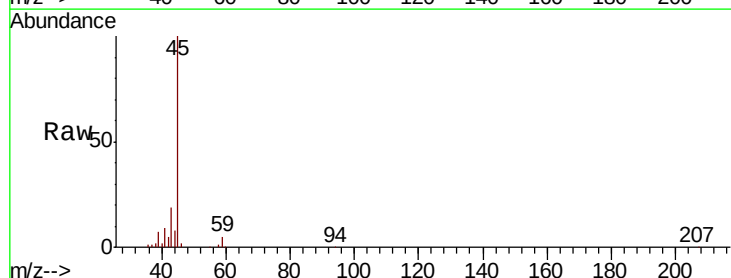
Acq: 05 Dec 2018 12:52

Tgt Ion: 43 Resp: 11820

Ion Ratio Lower Upper

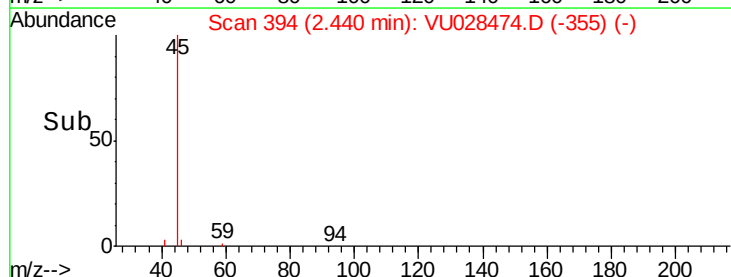
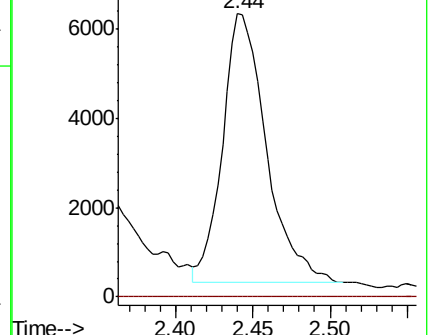
43 100

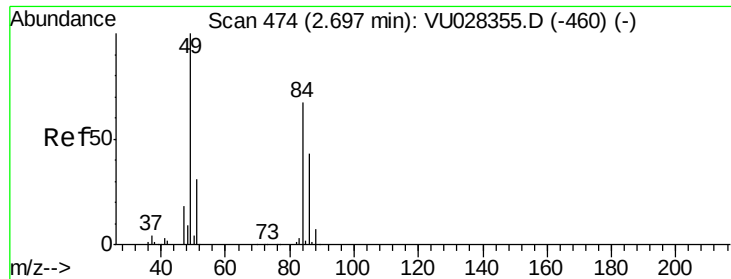
74 0.0 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

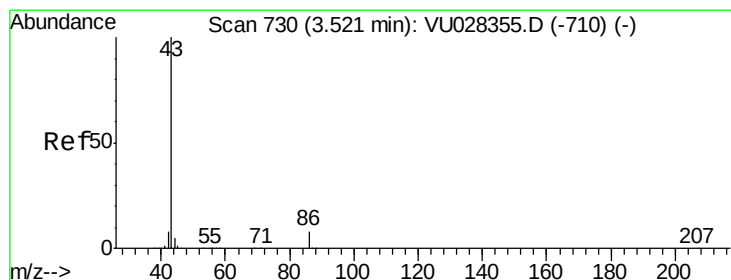
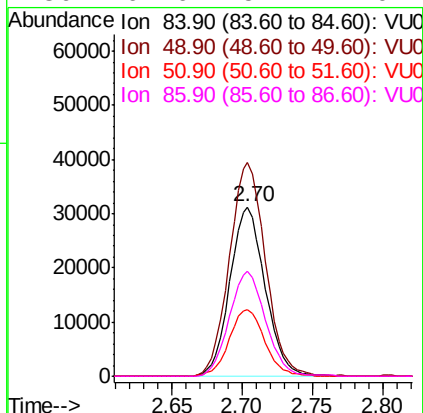
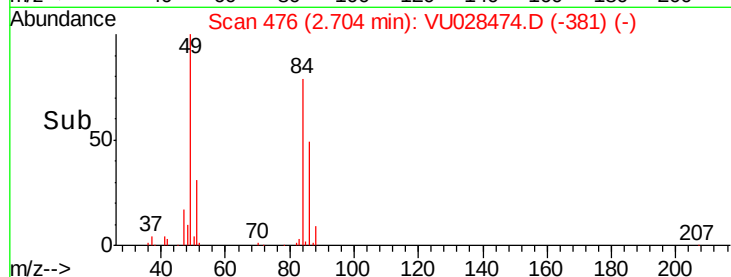
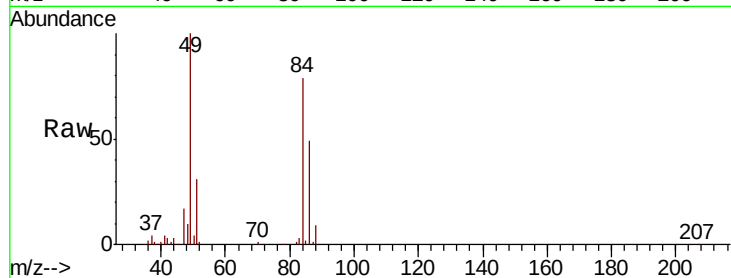




#20
Methylene Chloride
Concen: 9.385 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

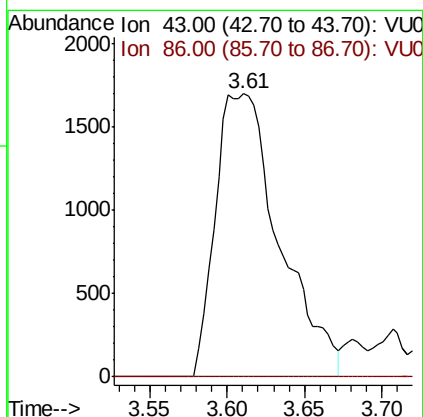
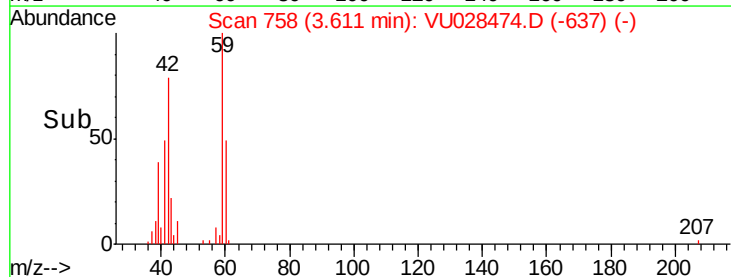
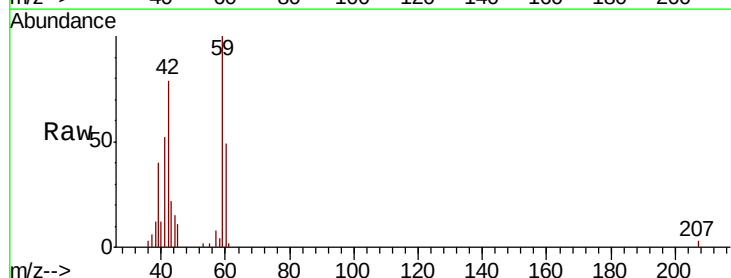
Instrument :
MSVOA_U
ClientSampleId :
TP-4

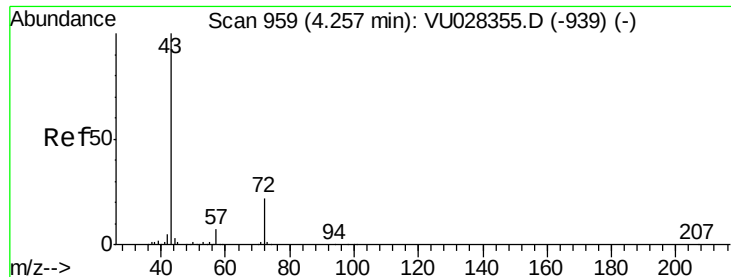
Tot Ion: 84 Resp: 54643
Ion Ratio Lower Upper
84 100
49 126.1 120.0 180.0
51 39.0 36.9 55.3
86 61.6 51.1 76.7



#23
Vinyl Acetate
Concen: 0.267 ug/l
RT: 3.61 min Scan# 758
Delta R.T. 0.09 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Tgt Ion: 43 Resp: 4891
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#

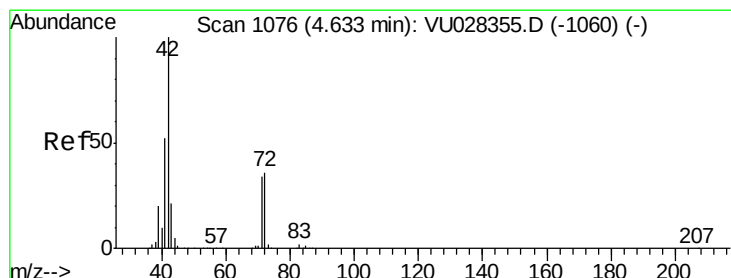
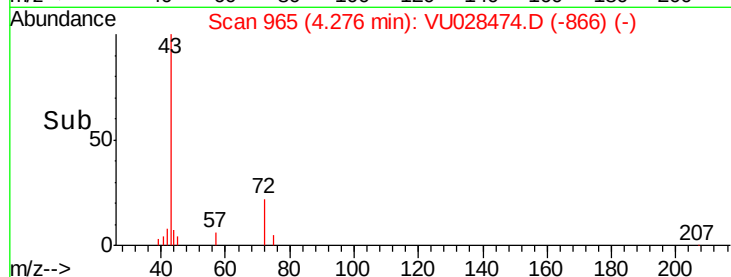
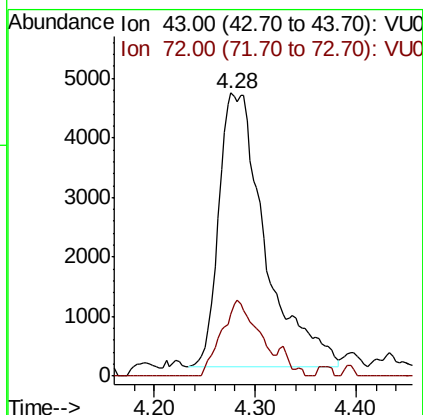
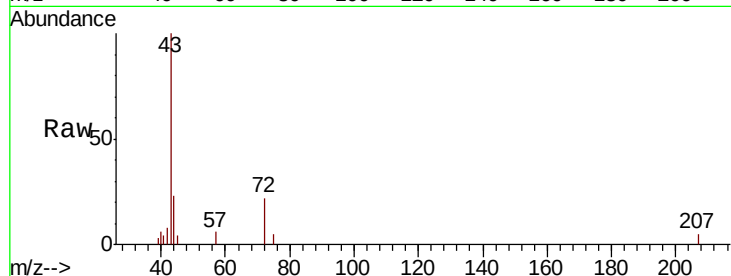




#25
2-Butanone
Concen: 2.485 ug/l
RT: 4.28 min Scan# 965
Delta R.T. 0.02 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

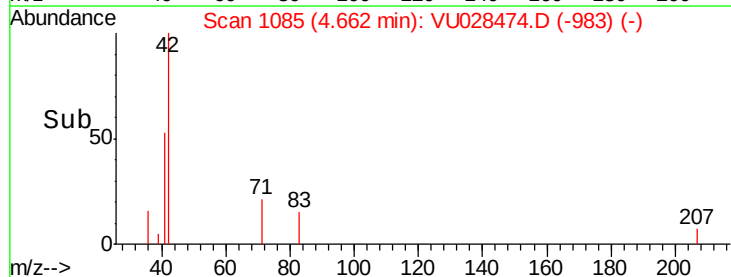
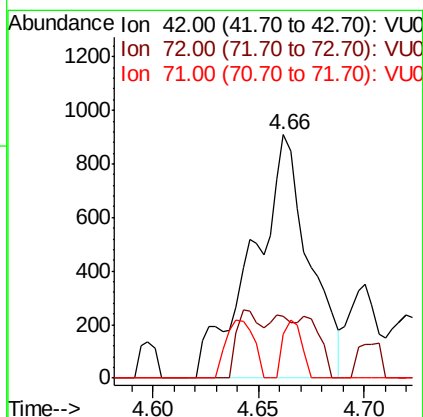
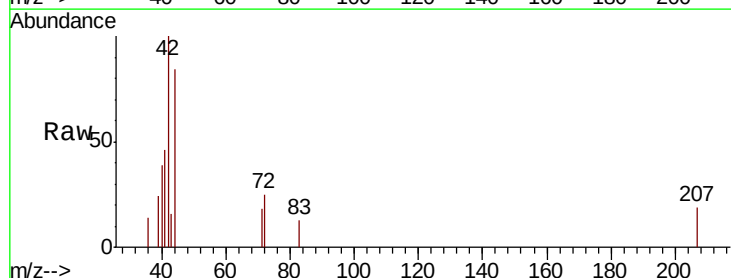
Instrument :
MSVOA_U
ClientSampled :
TP-4

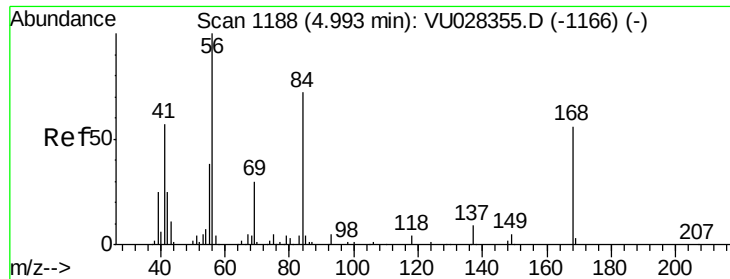
Tot Ion: 43 Resp: 14610
Ion Ratio Lower Upper
43 100
72 22.5 17.7 26.5



#29
Tetrahydrofuran
Concen: 0.441 ug/l
RT: 4.66 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Tgt Ion: 42 Resp: 1682
Ion Ratio Lower Upper
42 100
72 0.0 29.5 44.3#
71 7.8 27.7 41.5#

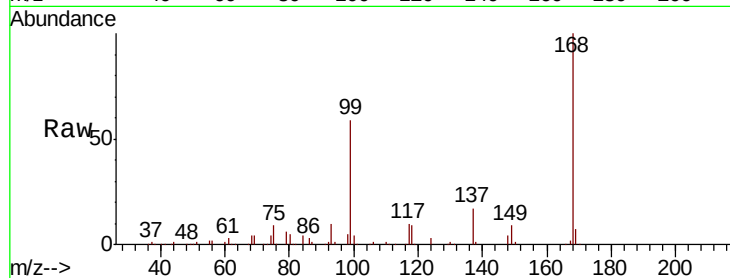




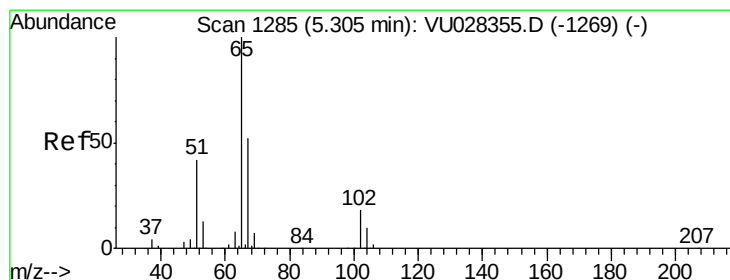
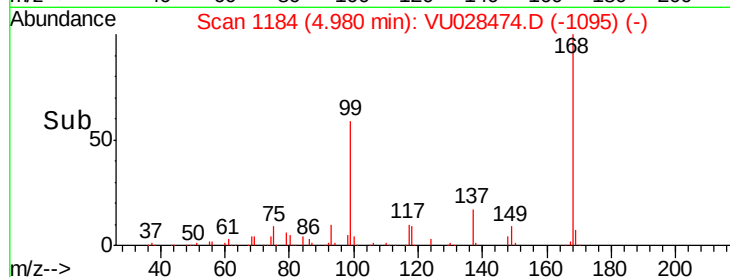
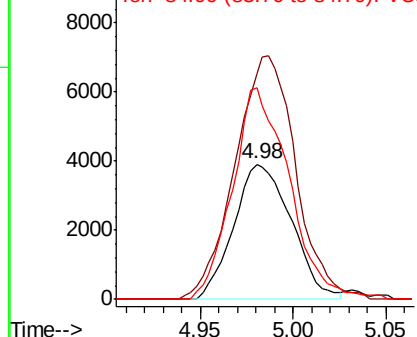
#31
Cyclohexane
Concen: 0.374 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Instrument :
MSVOA_U
ClientSampleId :
TP-4

Tot Ion: 56 Resp: 8444
Ion Ratio Lower Upper
56 100
69 161.8 23.7 35.5#
84 156.9 57.3 85.9#

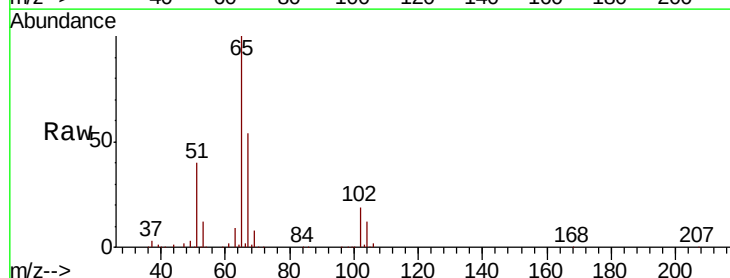


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

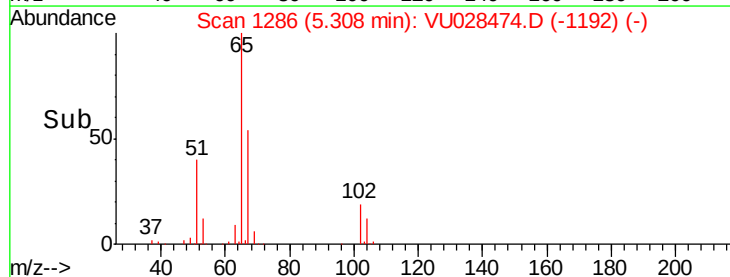
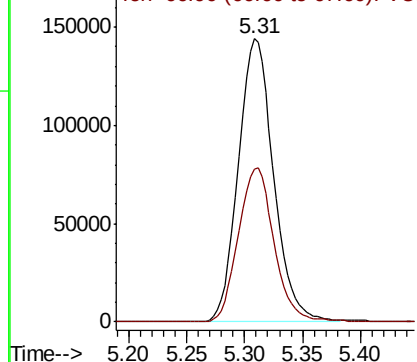


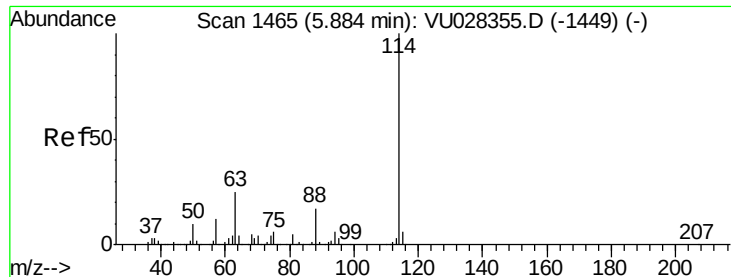
#33
1,2-Dichloroethane-d4
Concen: 45.432 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Tgt Ion: 65 Resp: 304635
Ion Ratio Lower Upper
65 100
67 55.4 0.0 106.8



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

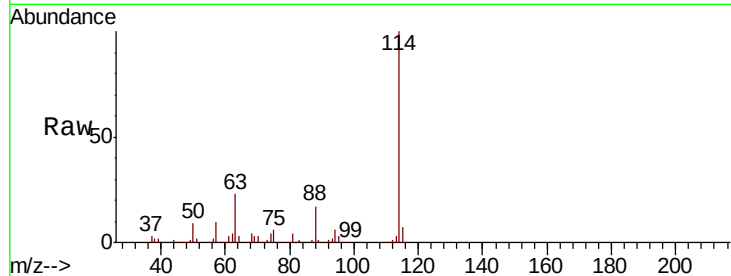




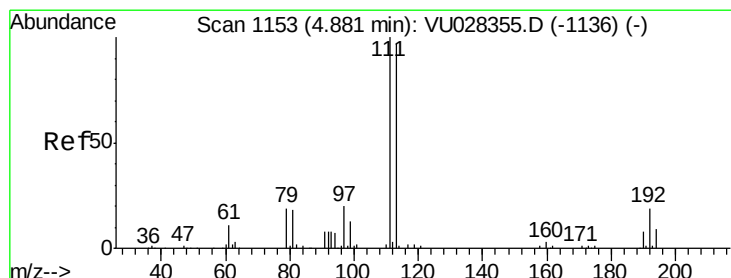
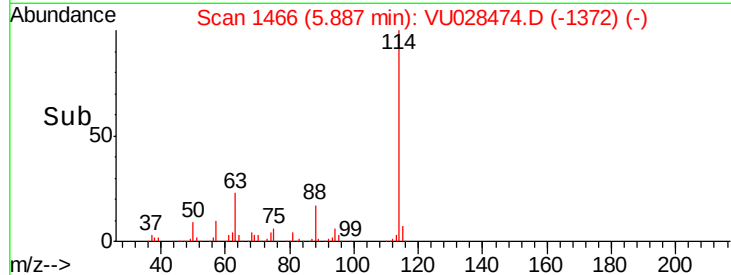
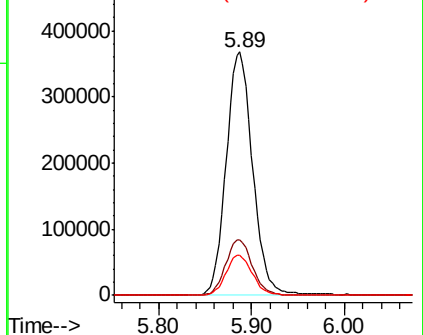
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028474.D
 Acq: 05 Dec 2018 12:52

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	50.0
88	16.5	0.0	34.4

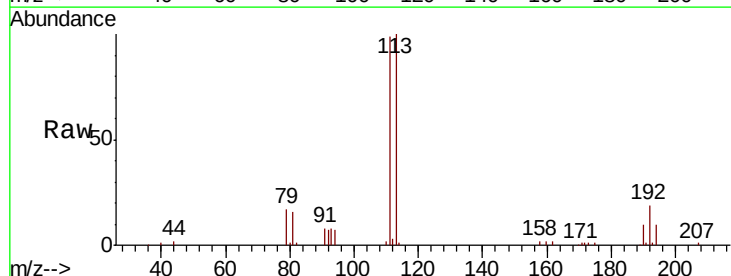


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

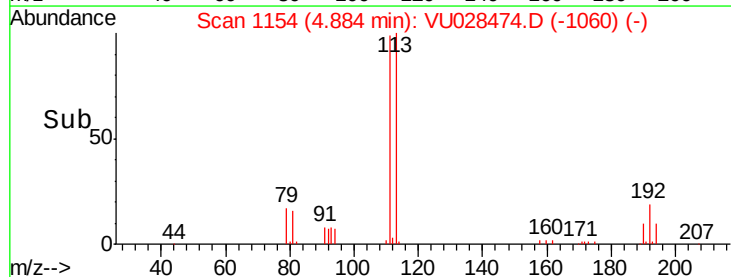
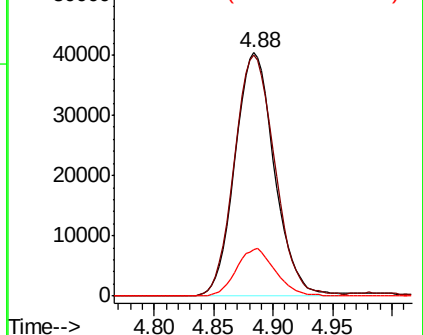


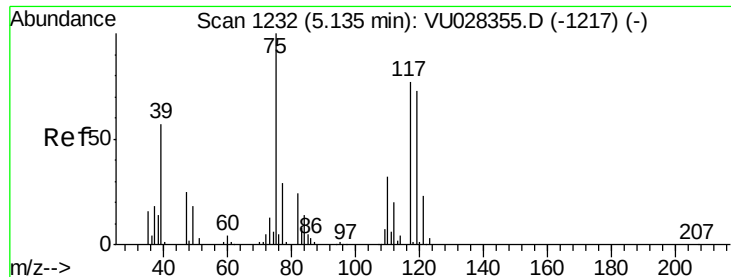
#35
 Dibromofluoromethane
 Concen: 19.099 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028474.D
 Acq: 05 Dec 2018 12:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.9	124.3
192	19.3	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: 4.137 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

Instrument :

MSVOA_U

ClientSampleId :

TP-4

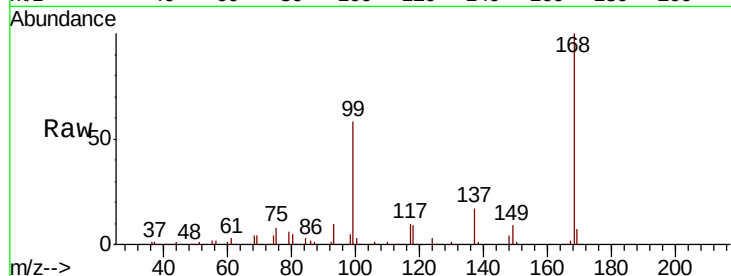
Tot Ion: 75 Resp: 33109

Ion Ratio Lower Upper

75 100

110 7.6 15.8 47.4#

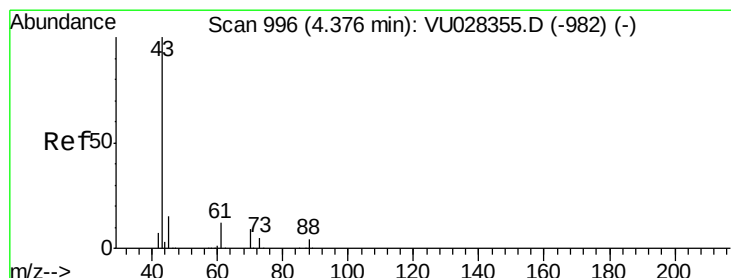
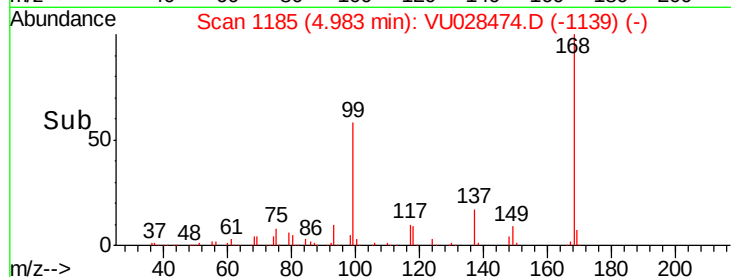
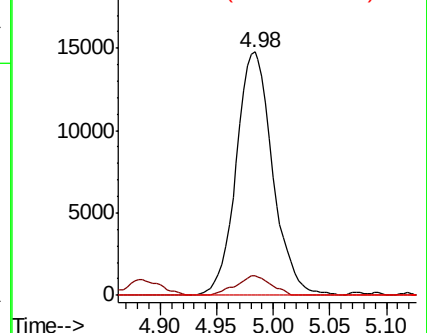
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 1.340 ug/l

RT: 4.28 min Scan# 965

Delta R.T. -0.10 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

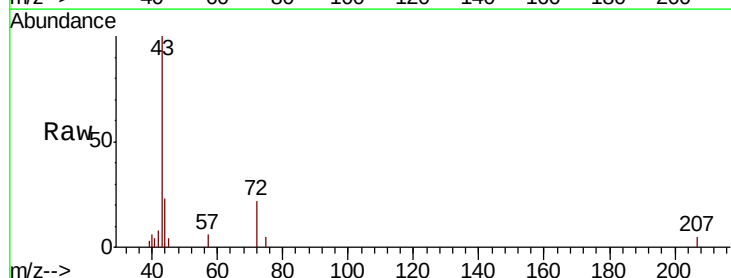
Tgt Ion: 43 Resp: 14610

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

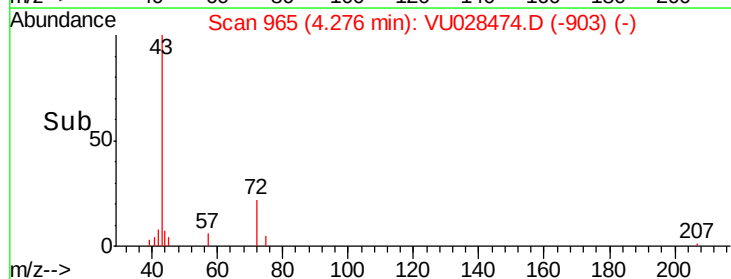
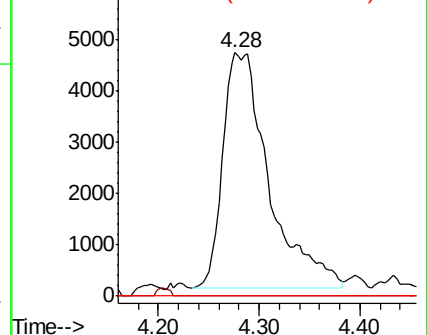
70 0.0 6.9 10.3#

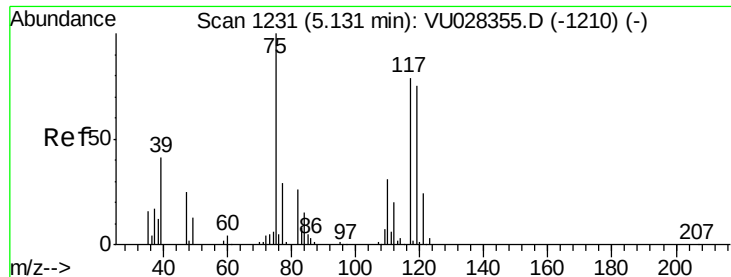


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 5.693 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

Instrument :

MSVOA_U

ClientSampleId :

TP-4

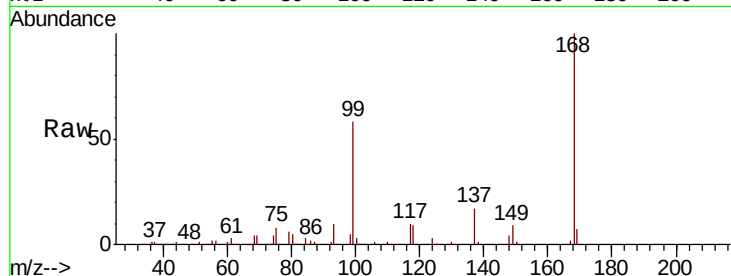
Tot Ion:117 Resp: 37417

Ion Ratio Lower Upper

117 100

119 4.5 76.3 114.5#

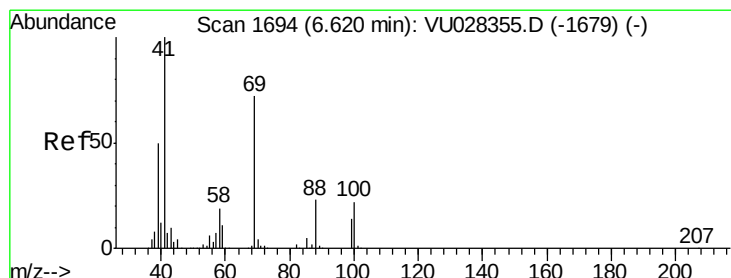
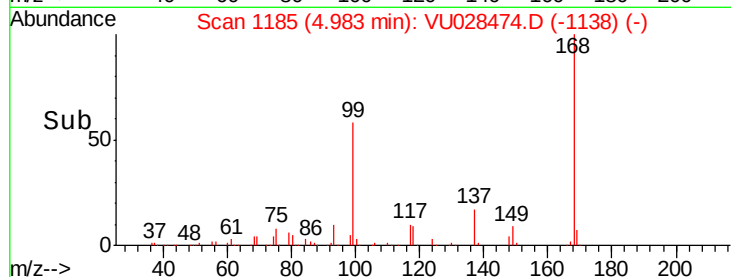
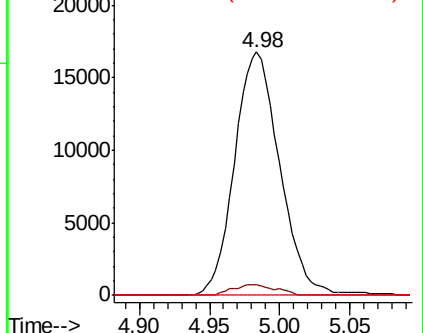
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 2.130 ug/l

RT: 6.53 min Scan# 1667

Delta R.T. -0.09 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

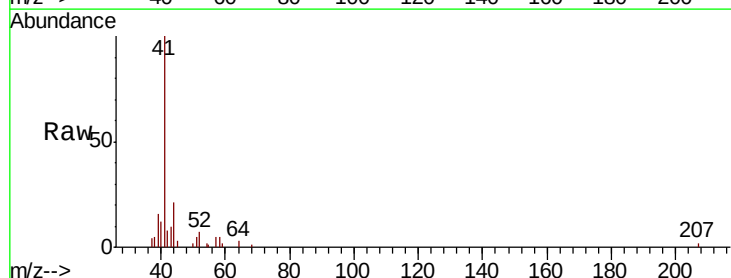
Tgt Ion: 41 Resp: 19178

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.4#

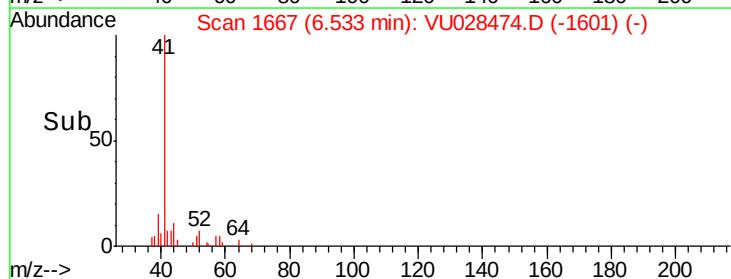
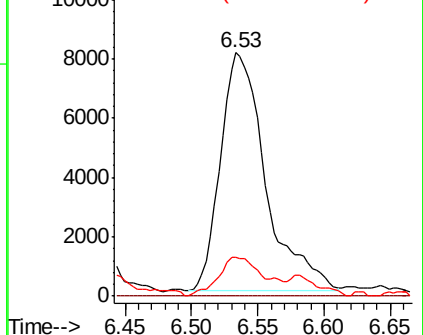
39 16.6 40.5 60.7#

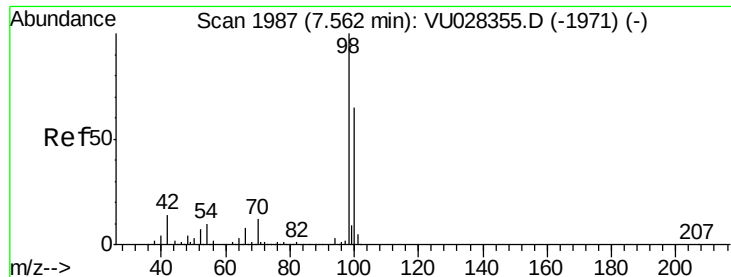


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

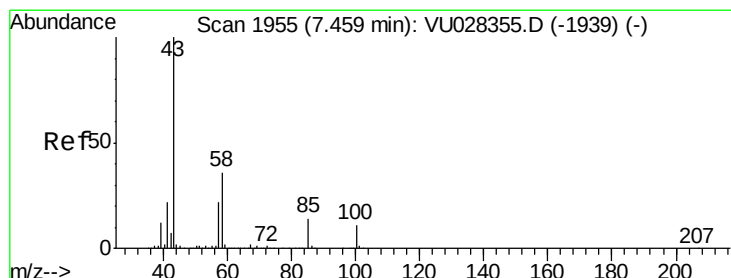
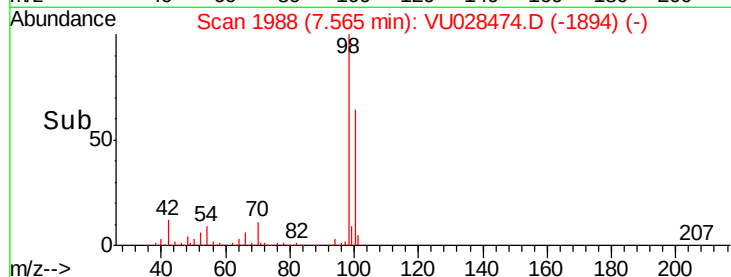
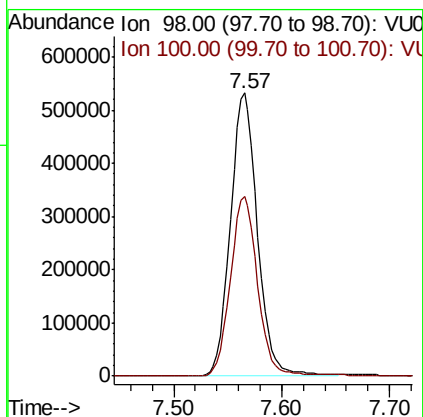
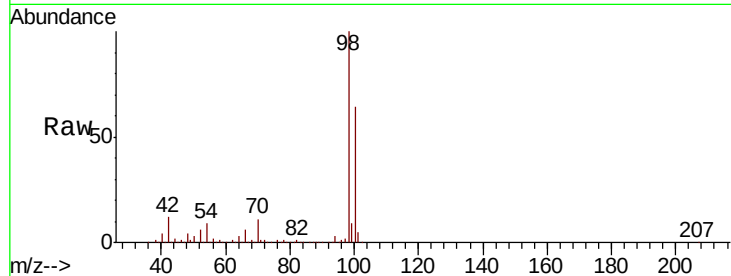




#50
Toluene-d8
Concen: 47.918 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

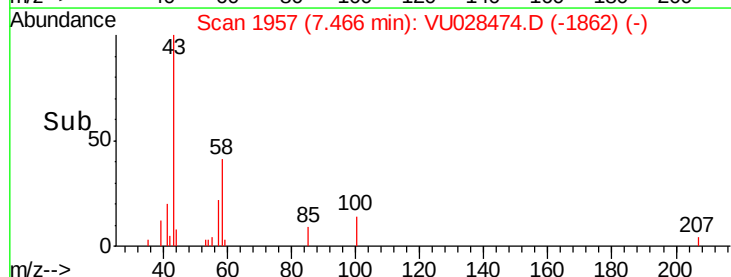
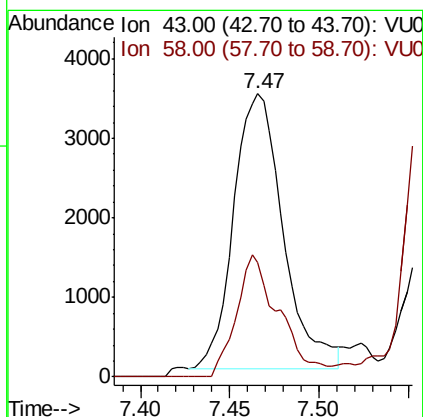
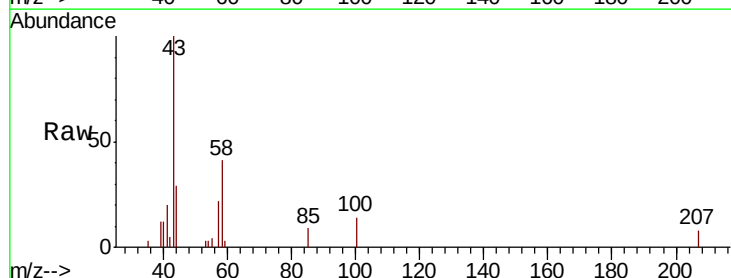
Instrument :
MSVOA_U
ClientSampled :
TP-4

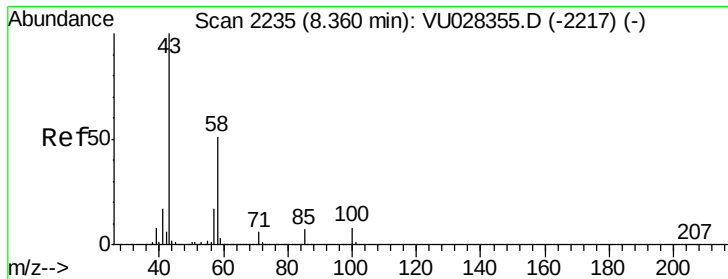
Tot Ion: 98 Resp: 932005
Ion Ratio Lower Upper
98 100
100 64.2 50.8 76.2



#51
4-Methyl-2-Pentanone
Concen: 0.606 ug/l
RT: 7.47 min Scan# 1957
Delta R.T. 0.01 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Tgt Ion: 43 Resp: 6691
Ion Ratio Lower Upper
43 100
58 38.6 28.8 43.2





#59

2-Hexanone

Concen: 0.290 ug/l

RT: 8.38 min Scan# 2240

Delta R.T. 0.02 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

Instrument :

MSVOA_U

ClientSampled :

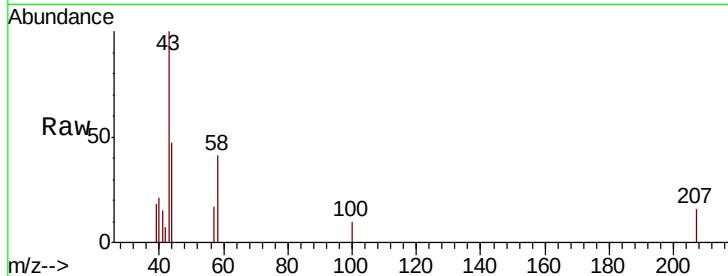
TP-4

Tot Ion: 43 Resp: 2483

Ion Ratio Lower Upper

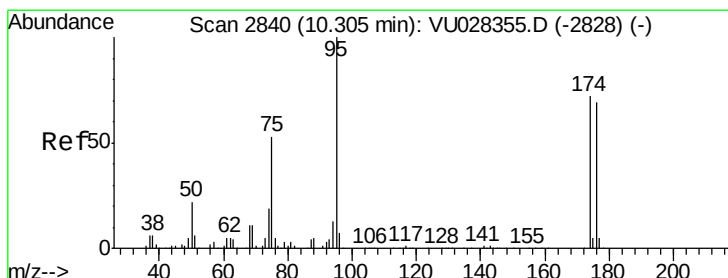
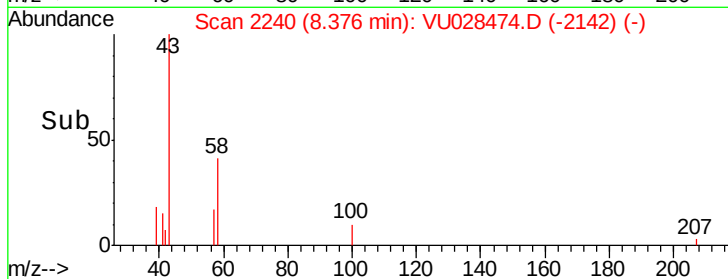
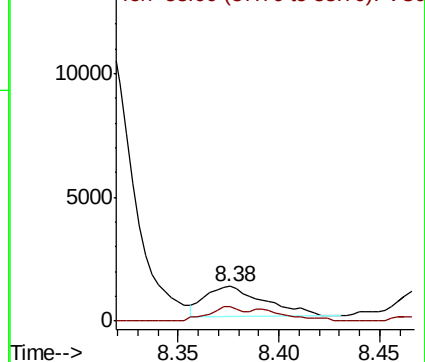
43 100

58 25.7 25.5 76.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 50.196 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

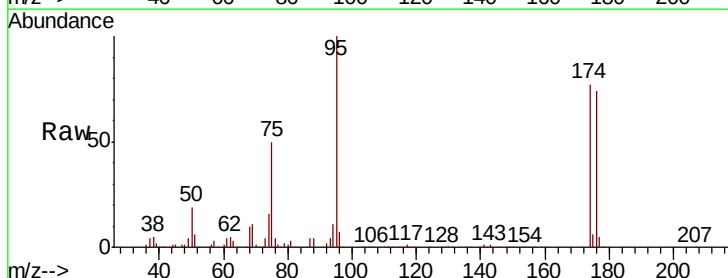
Tgt Ion: 95 Resp: 351885

Ion Ratio Lower Upper

95 100

174 75.6 0.0 145.4

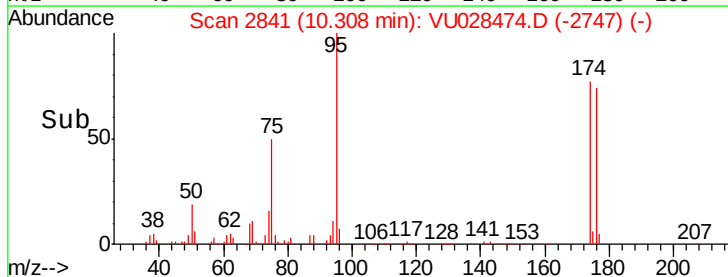
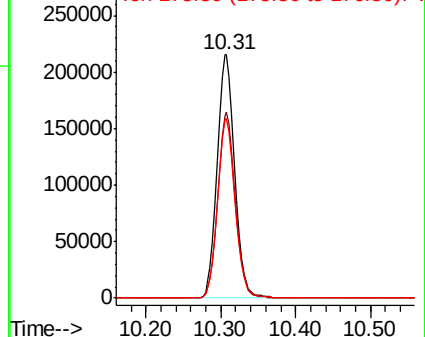
176 73.5 0.0 140.8

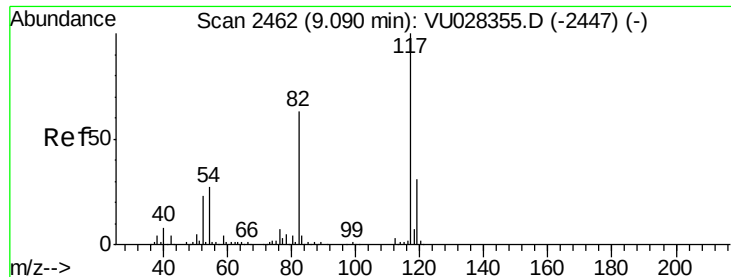


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

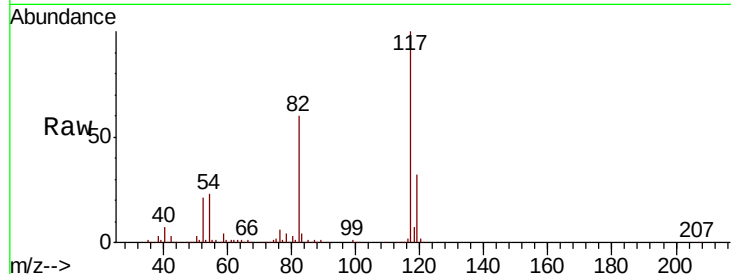




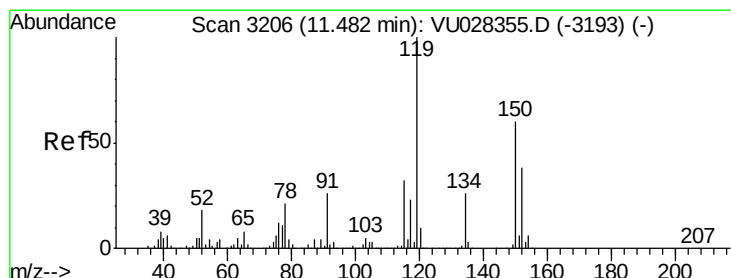
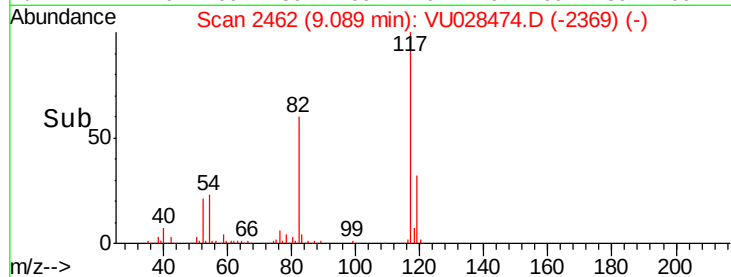
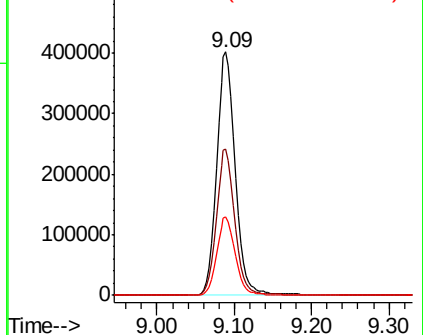
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Instrument :
MSVOA_U
ClientSampled :
TP-4

Tot Ion:117 Resp: 685624
Ion Ratio Lower Upper
117 100
82 60.3 50.3 75.5
119 32.1 24.8 37.2

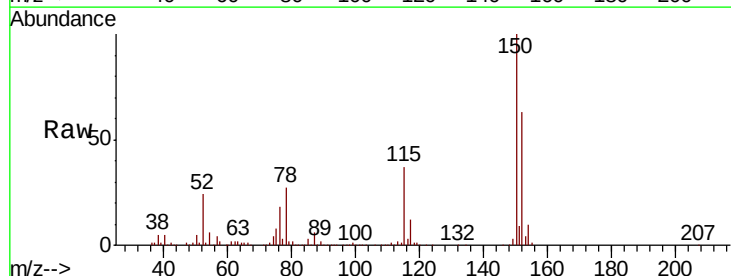


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

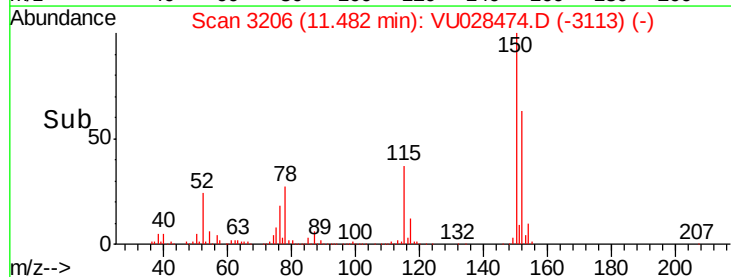
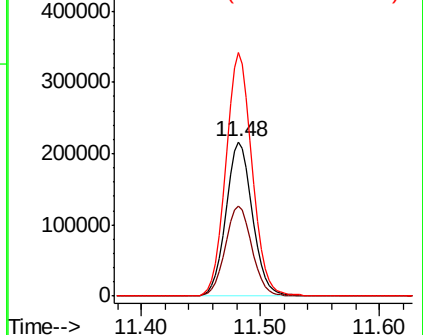


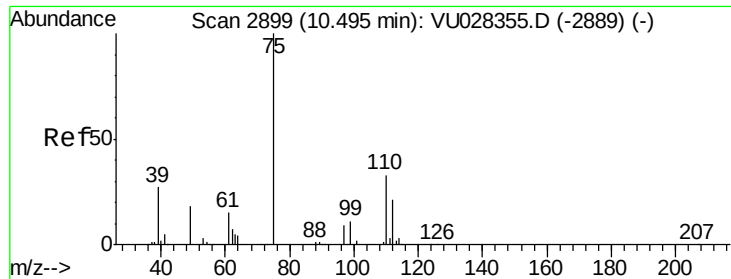
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028474.D
Acq: 05 Dec 2018 12:52

Tgt Ion:152 Resp: 334218
Ion Ratio Lower Upper
152 100
115 58.6 45.0 134.8
150 156.0 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: 18.654 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

Instrument :

MSVOA_U

ClientSampled :

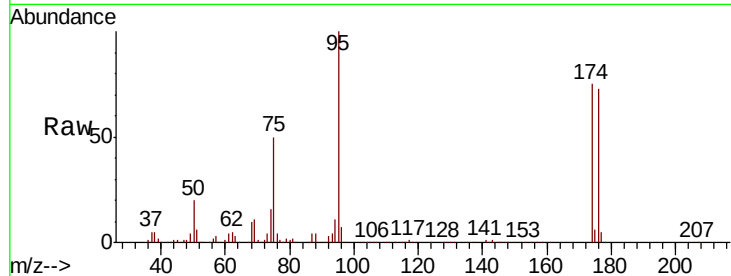
TP-4

Tot Ion: 75 Resp: 172891

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

10.30

120000

100000

80000

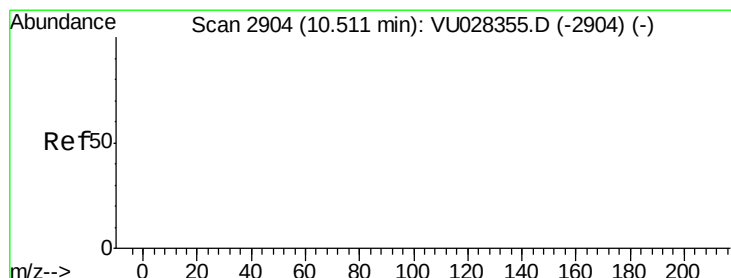
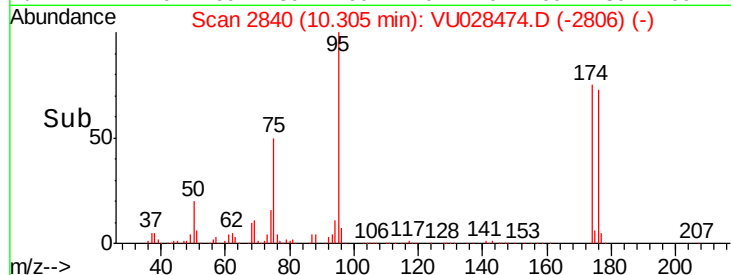
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 49.518 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU028474.D

Acq: 05 Dec 2018 12:52

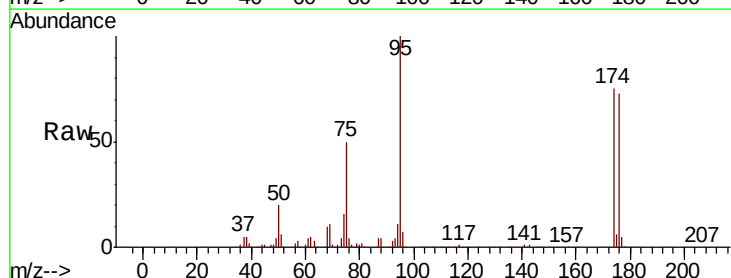
Tgt Ion: 75 Resp: 172891

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

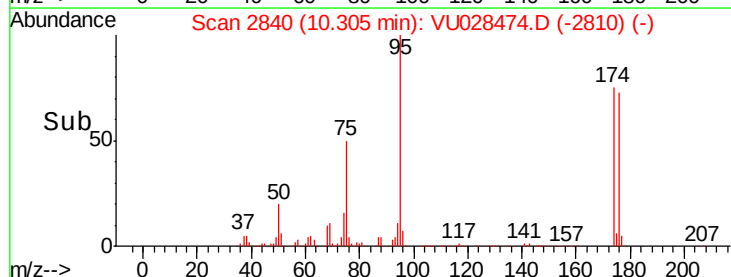
150000

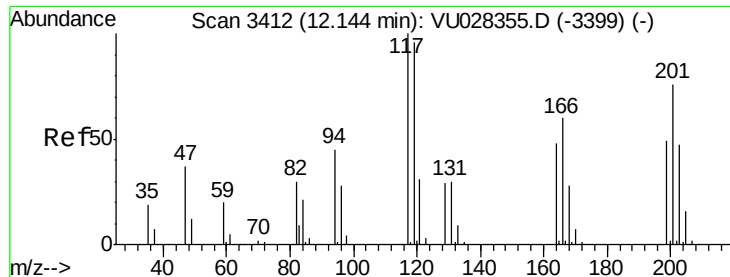
100000

50000

0

Time-->

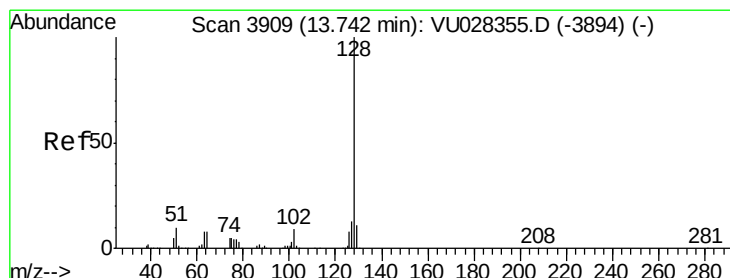
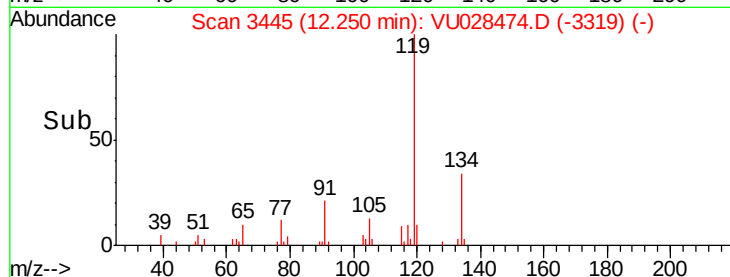
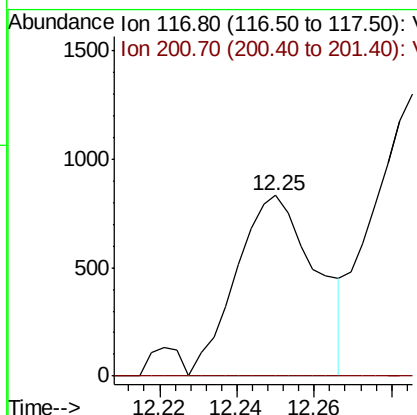
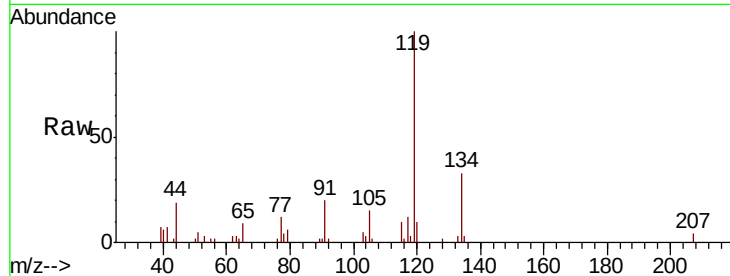




#90
 Hexachloroethane
 Concen: 0.350 ug/l
 RT: 12.25 min Scan# 3445
 Delta R.T. 0.11 min
 Lab File: VU028474.D
 Acq: 05 Dec 2018 12:52

Instrument :
 MSVOA_U
 ClientSampled :
 TP-4

Tot Ion:117 Resp: 1192
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.7 113.1#



#95
 Naphthalene
 Concen: 3.667 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.00 min
 Lab File: VU028474.D
 Acq: 05 Dec 2018 12:52

Tgt Ion:128 Resp: 24806
 Ion Ratio Lower Upper
 128 100
 127 12.5 10.6 15.8
 129 11.7 8.6 12.8

