

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120518\
 Data File : VU028482.D
 Acq On : 05 Dec 2018 15:57
 Operator : MD/SY
 Sample : J6194-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 OK-02-120418-B

Quant Time: Dec 06 01:35:14 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	367556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	675789	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	638739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	309851	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	284821	46.37	ug/l	0.00
Spiked Amount			Recovery	=	92.74%	
35) Dibromofluoromethane	4.88	113	86966	19.35	ug/l	0.00
Spiked Amount			Recovery	=	38.70%	
50) Toluene-d8	7.57	98	880294	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	10.30	95	322191	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	

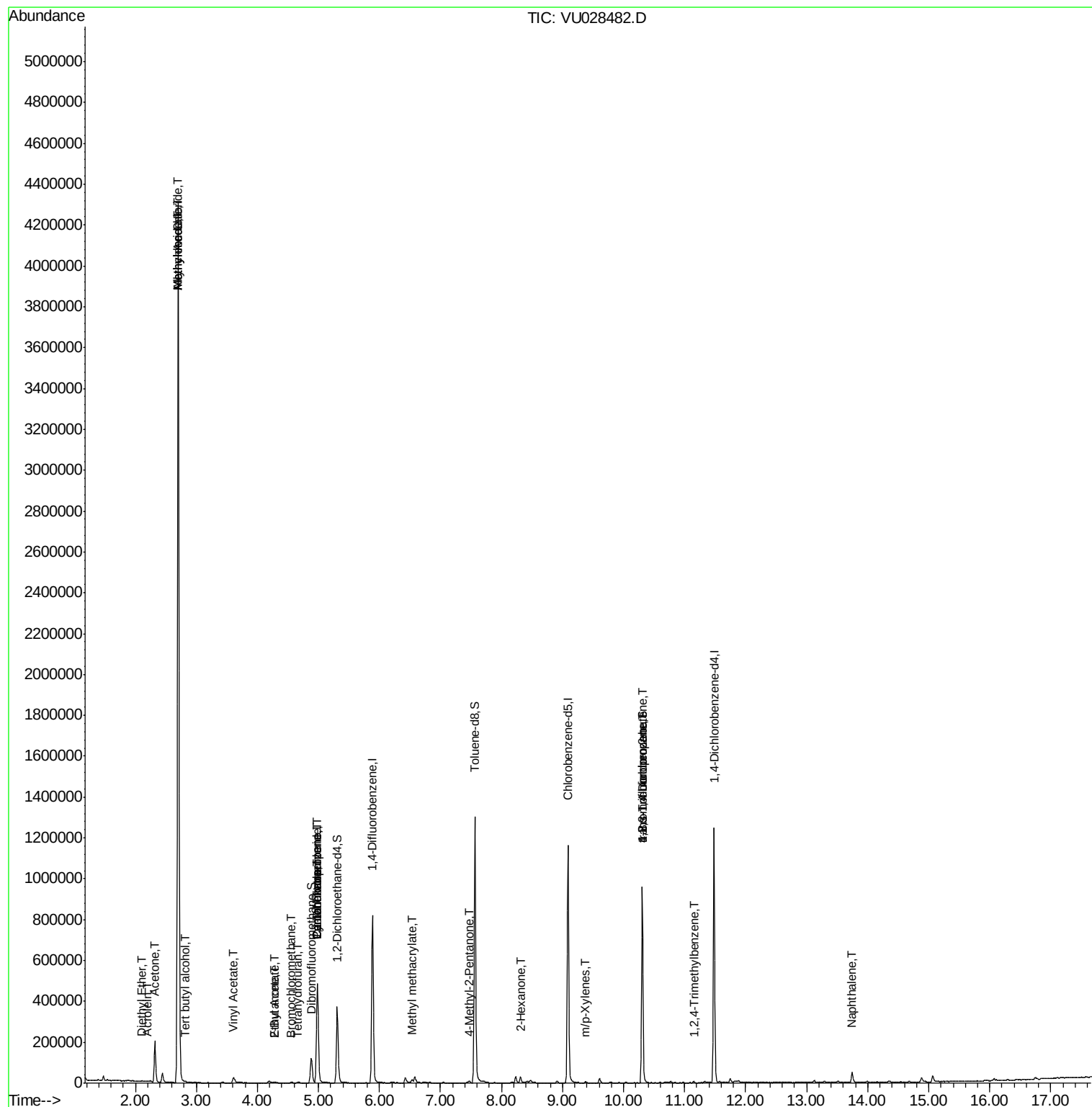
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.11	74	1080	0.334	ug/l	92
11) Tert butyl alcohol	2.82	59	1014	0.727	ug/l #	90
13) Acrolein	2.20	56	1152	0.929	ug/l #	66
14) Allyl chloride	2.70	41	77984	7.601	ug/l #	27
16) Acetone	2.32	43	210380	55.986	ug/l	96
18) Methyl Acetate	2.70	43	9480	0.906	ug/l #	88
20) Methylene Chloride	2.70	84	1778494	335.984	ug/l	91
23) Vinyl Acetate	3.60	43	4478	0.267	ug/l #	77
25) 2-Butanone	4.29	43	3423	0.636	ug/l	100
28) Bromochloromethane	4.56	49	2061	0.414	ug/l #	75
29) Tetrahydrofuran	4.65	42	2187	0.625	ug/l #	48
31) Cyclohexane	4.98	56	8271	0.427	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	31623	4.276	ug/l #	49
37) Ethyl Acetate	4.29	43	3423	0.340	ug/l #	71
38) Carbon Tetrachloride	4.98	117	35518	5.849	ug/l #	16
48) Methyl methacrylate	6.54	41	21352	2.567	ug/l #	26
51) 4-Methyl-2-Pentanone	7.46	43	8451	0.829	ug/l	95
59) 2-Hexanone	8.31	43	24704	3.127	ug/l #	27
68) m/p-Xylenes	9.38	106	1852	0.206	ug/l	82
76) 1,2,3-Trichloropropane	10.30	75	165867	19.304	ug/l #	33
81) trans-1,4-Dichloro-2-buten	10.30	75	165867	51.242	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	4382	0.213	ug/l	98
95) Naphthalene	13.74	128	45333	4.475	ug/l	97

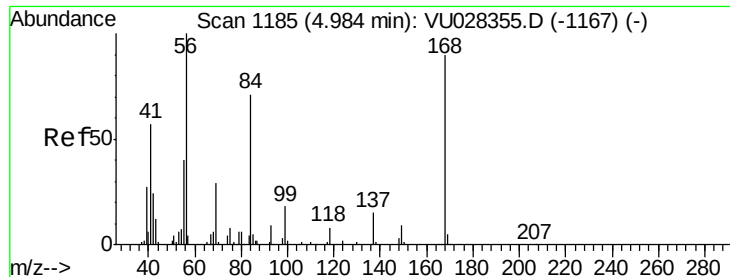
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 29 01:04:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

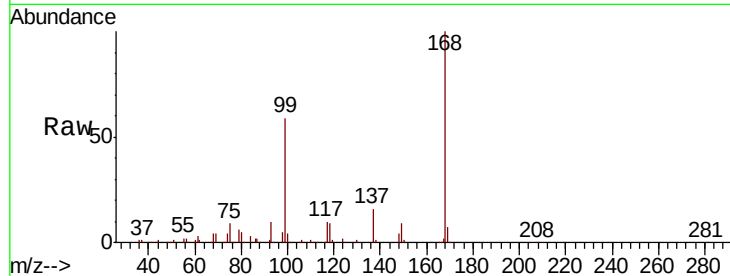
OK-02-120418-B

Tot Ion:168 Resp: 367556

Ion Ratio Lower Upper

168 100

99 59.3 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) (-)

4.98

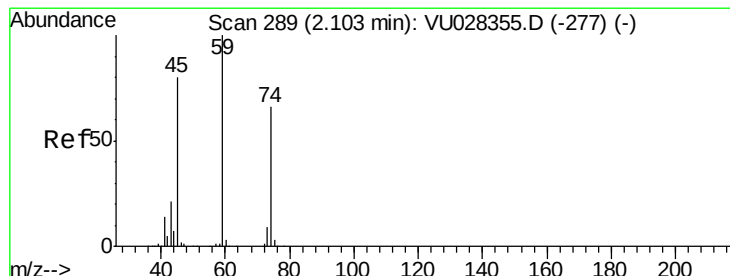
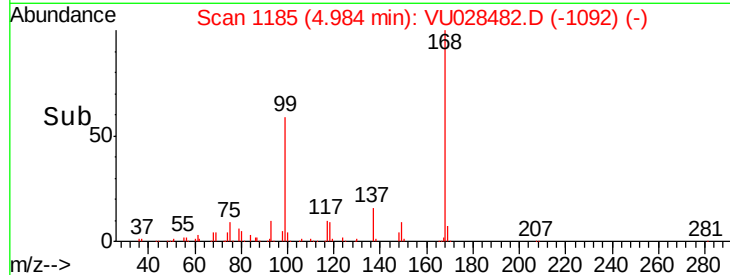
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.334 ug/l

RT: 2.11 min Scan# 290

Delta R.T. 0.00 min

Lab File: VU028482.D

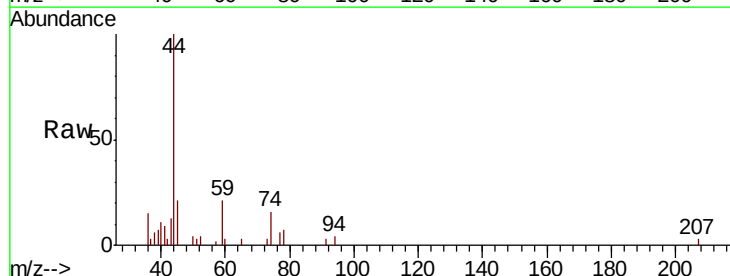
Acq: 05 Dec 2018 15:57

Tgt Ion: 74 Resp: 1080

Ion Ratio Lower Upper

74 100

45 117.1 63.0 189.1



Abundance Ion 74.00 (73.70 to 74.70): VU028355.D (-277) (-)

Ion 45.00 (44.70 to 45.70): VU028355.D (-277) (-)

2.11

1000

800

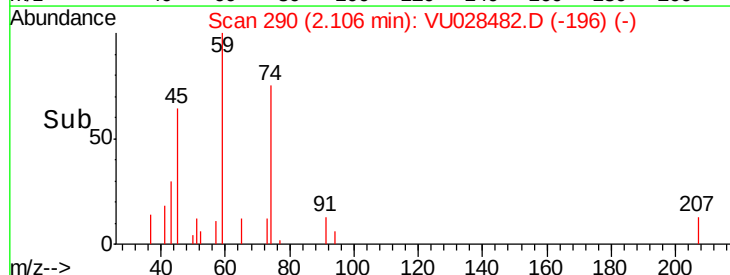
600

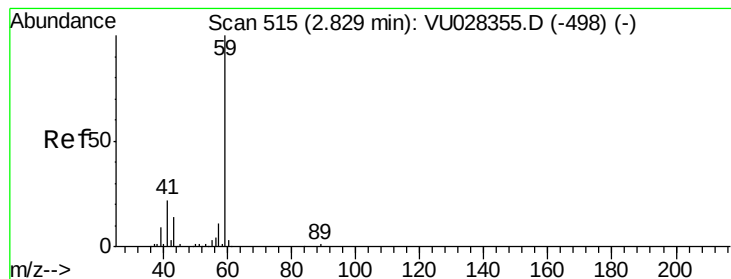
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 0.727 ug/l

RT: 2.82 min Scan# 512

Delta R.T. -0.01 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

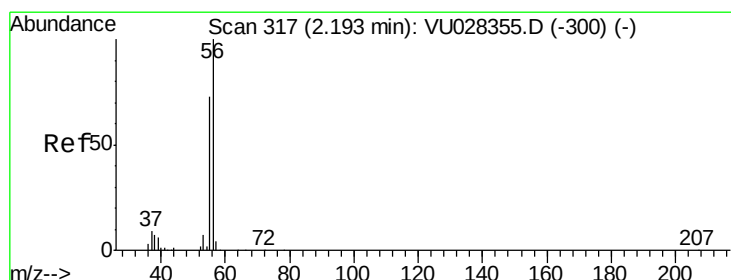
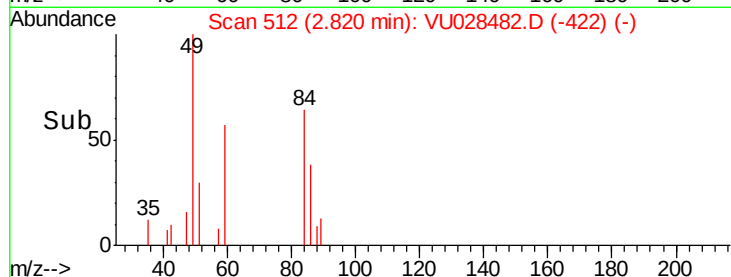
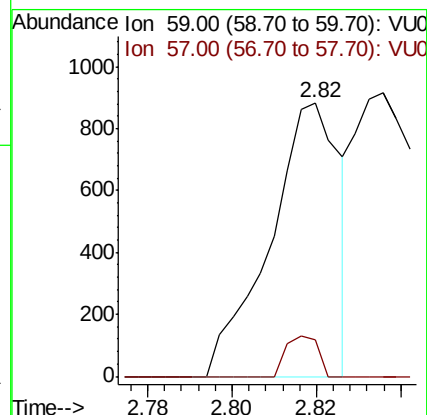
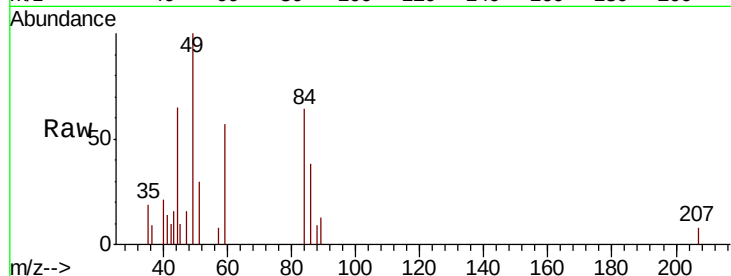
OK-02-120418-B

Tot Ion: 59 Resp: 1014

Ion Ratio Lower Upper

59 100

57 6.7 8.3 12.5#



#13

Acrolein

Concen: 0.929 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028482.D

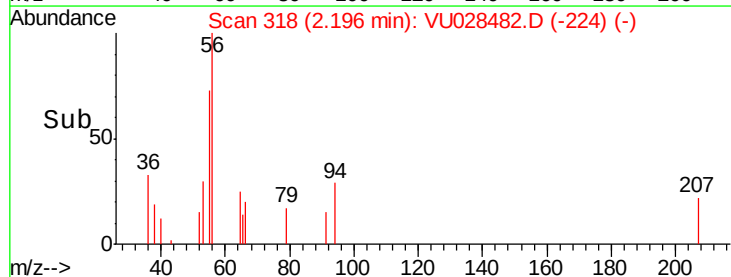
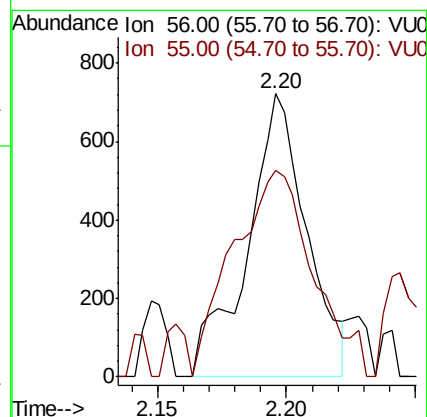
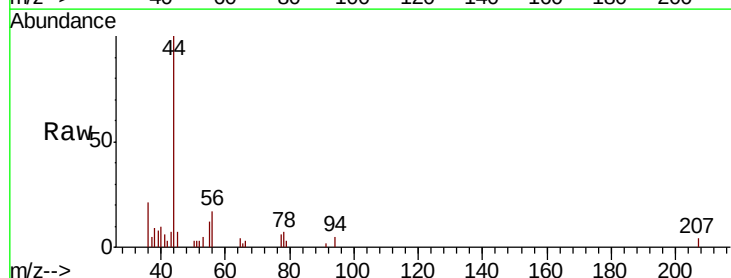
Acq: 05 Dec 2018 15:57

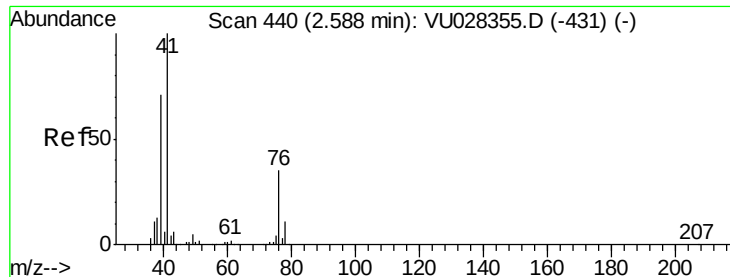
Tgt Ion: 56 Resp: 1152

Ion Ratio Lower Upper

56 100

55 98.9 56.6 85.0#

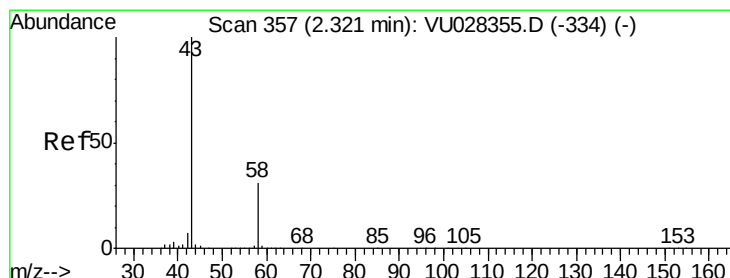
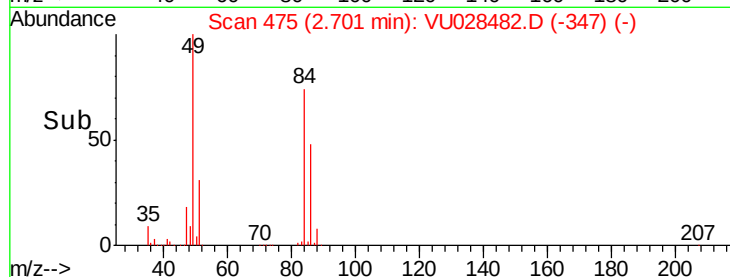
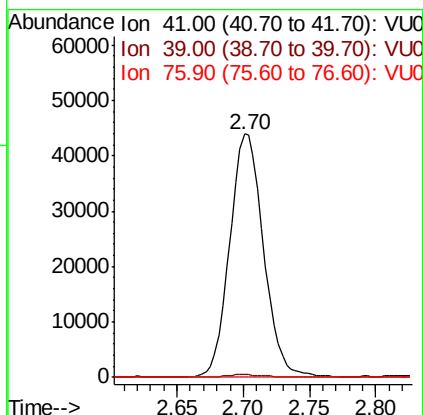
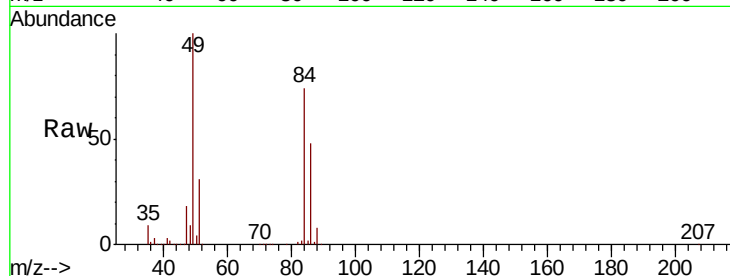




#14
Allvl chloride
Concen: 7.601 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.11 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

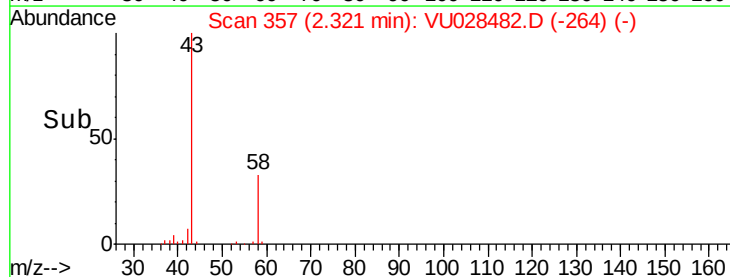
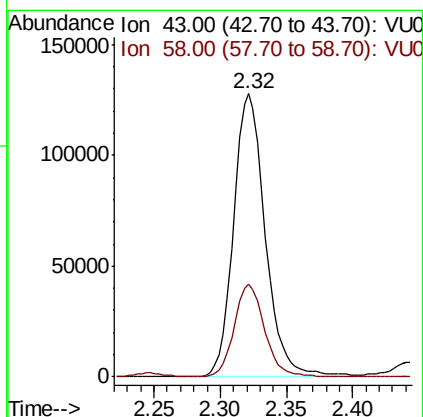
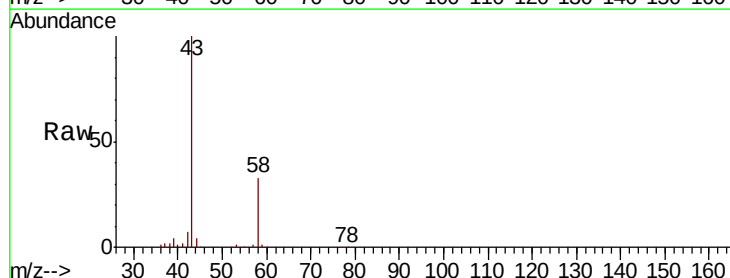
Instrument :
MSVOA_U
ClientSampleId :
OK-02-120418-B

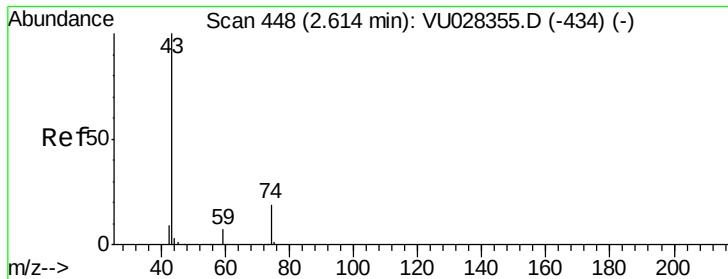
Tot Ion: 41 Resp: 77984
Ion Ratio Lower Upper
41 100
39 1.2 51.6 77.4#
76 0.0 24.4 36.6#



#16
Acetone
Concen: 55.986 ug/l
RT: 2.32 min Scan# 357
Delta R.T. -0.00 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Tgt Ion: 43 Resp: 210380
Ion Ratio Lower Upper
43 100
58 32.8 24.4 36.6





#18

Methyl Acetate

Concen: 0.906 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.09 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

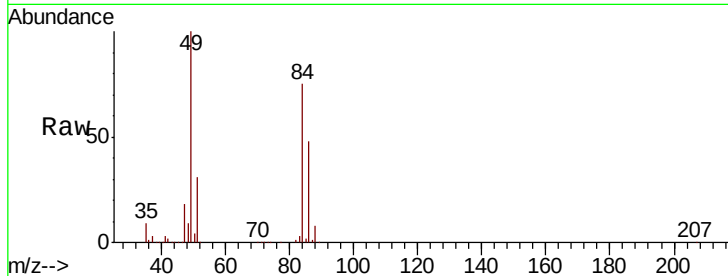
OK-02-120418-B

Tot Ion: 43 Resp: 9480

Ion Ratio Lower Upper

43 100

74 13.9 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

6000

5000

4000

3000

2000

1000

0

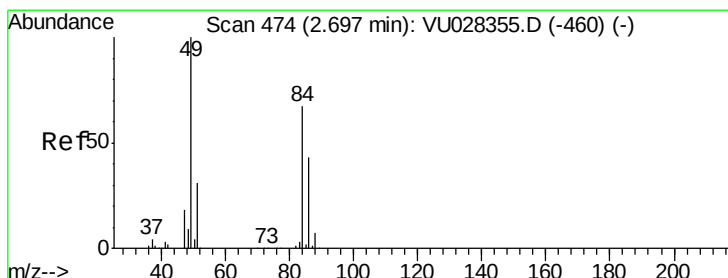
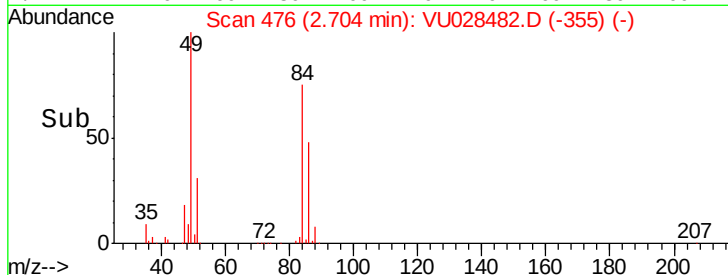
2.65

2.70

2.75

2.80

Time-->



#20

Methylene Chloride

Concen: 335.984 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Tgt Ion: 84 Resp: 1778494

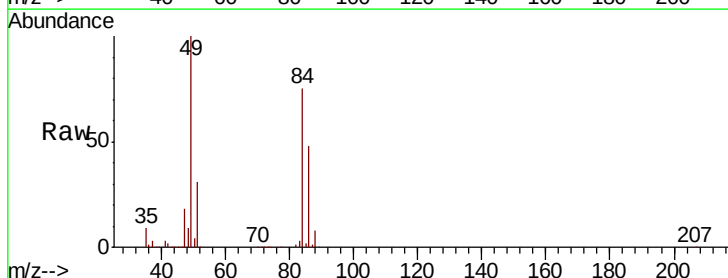
Ion Ratio Lower Upper

84 100

49 133.2 120.0 180.0

51 41.1 36.9 55.3

86 64.5 51.1 76.7



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

2000000

1500000

1000000

500000

0

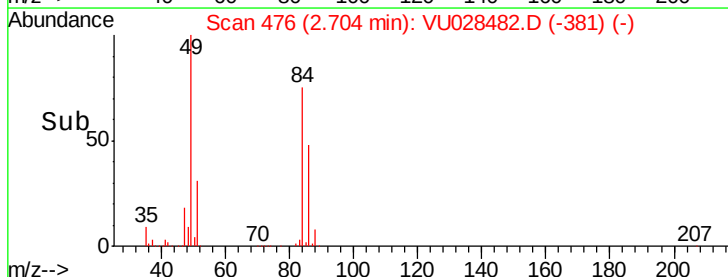
2.60

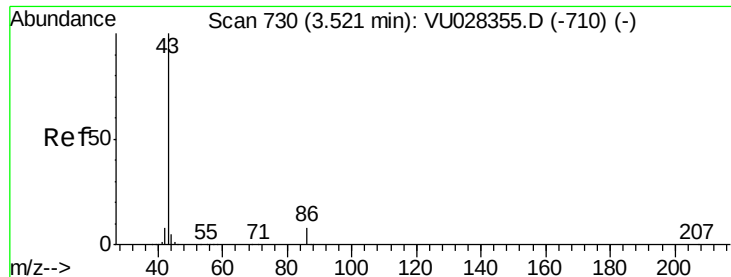
2.70

2.80

2.90

Time-->





#23

Vinyl Acetate

Concen: 0.267 ug/l

RT: 3.60 min Scan# 756

Delta R.T. 0.08 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

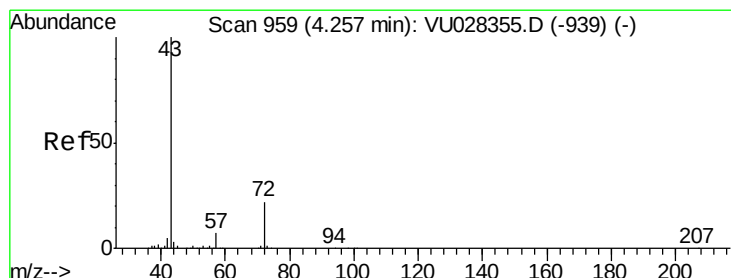
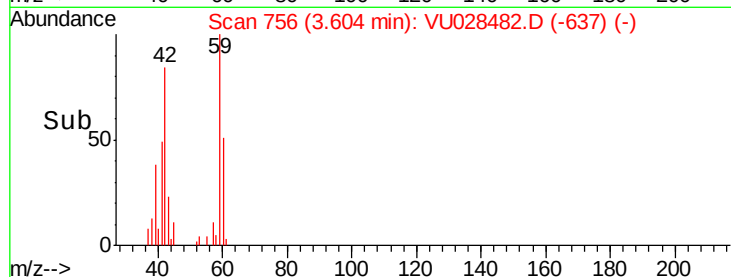
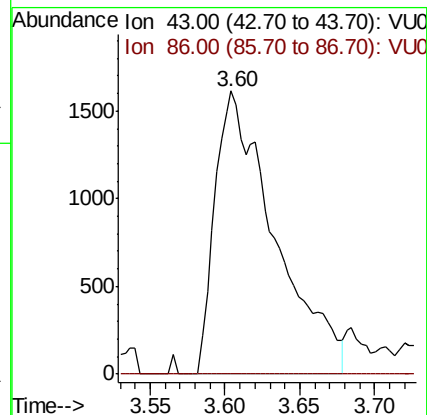
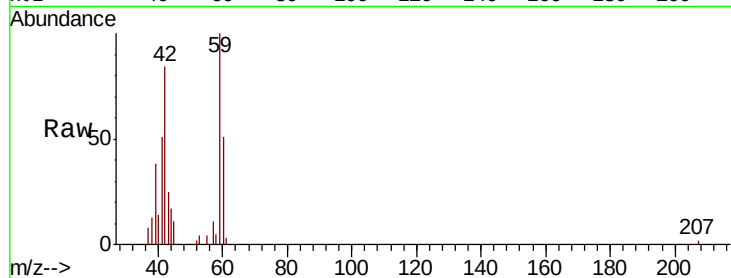
OK-02-120418-B

Tot Ion: 43 Resp: 4478

Ion Ratio Lower Upper

43 100

86 0.0 6.5 9.7#



#25

2-Butanone

Concen: 0.636 ug/l

RT: 4.29 min Scan# 969

Delta R.T. 0.03 min

Lab File: VU028482.D

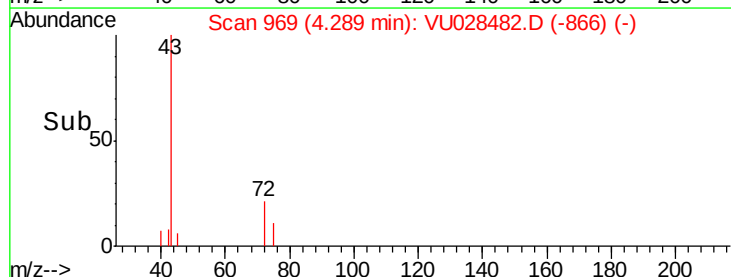
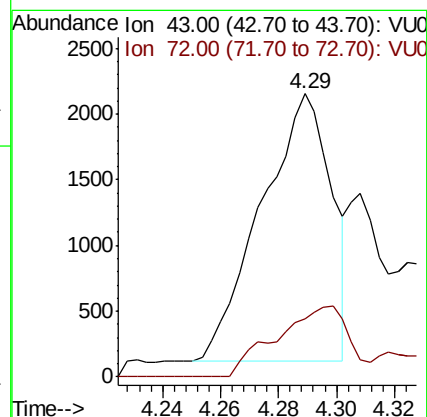
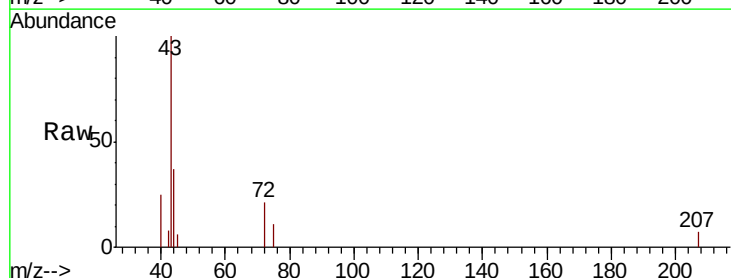
Acq: 05 Dec 2018 15:57

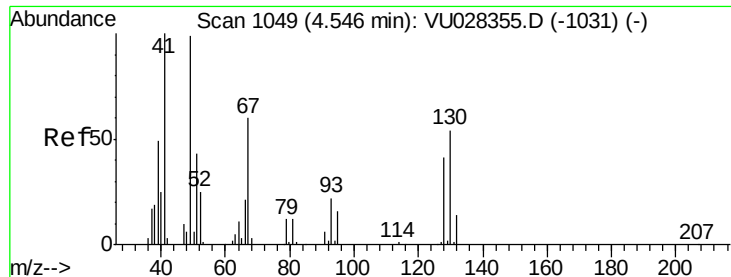
Tgt Ion: 43 Resp: 3423

Ion Ratio Lower Upper

43 100

72 21.9 17.7 26.5

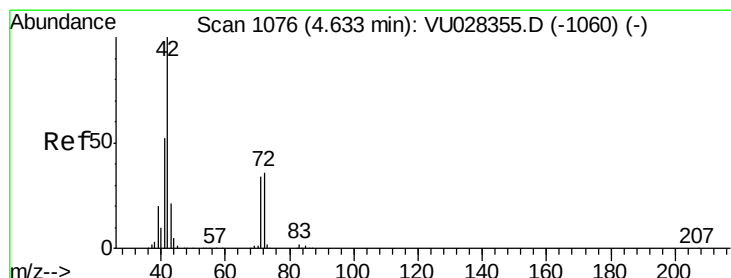
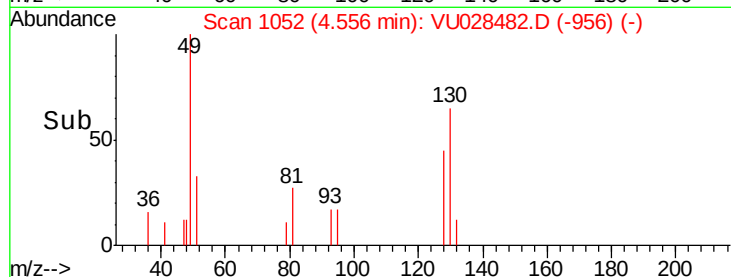
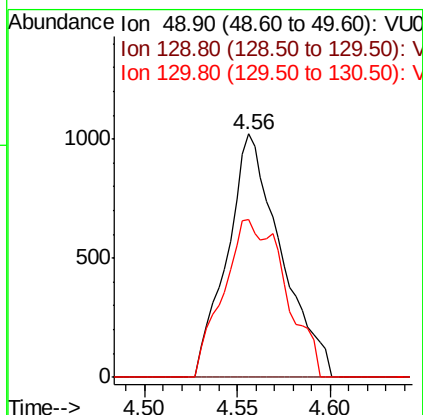
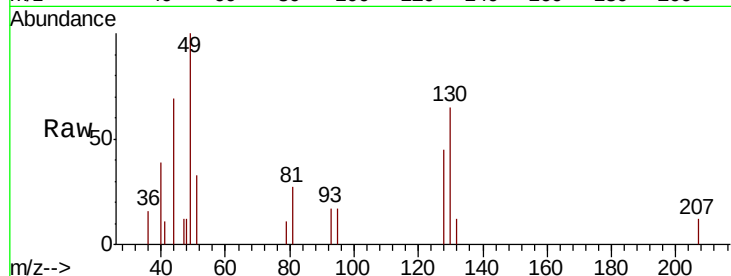




#28
Bromochloromethane
Concen: 0.414 ug/l
RT: 4.56 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

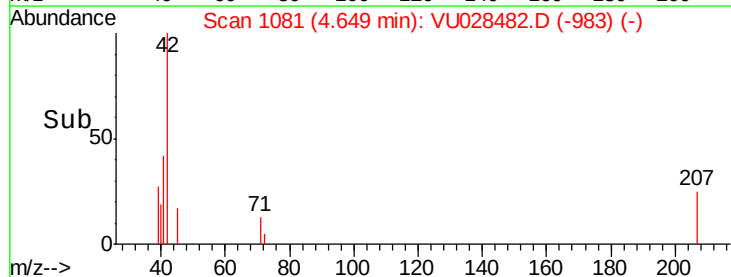
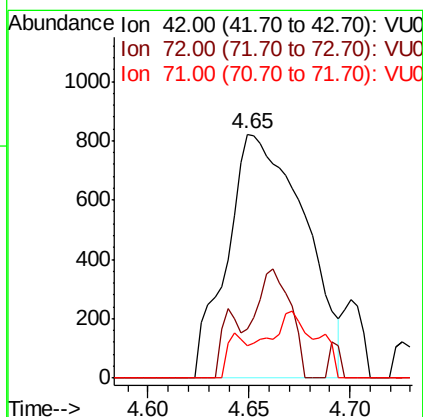
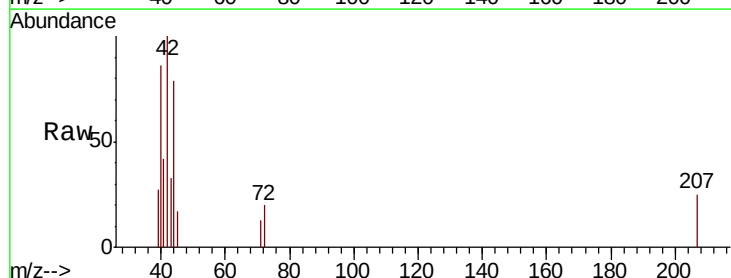
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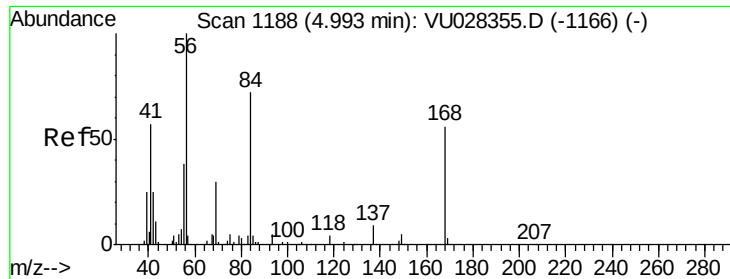
Tot Ion: 49 Resp: 2061
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.6
130 74.3 44.5 66.7#



#29
Tetrahydrofuran
Concen: 0.625 ug/l
RT: 4.65 min Scan# 1081
Delta R.T. 0.02 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Tgt Ion: 42 Resp: 2187
Ion Ratio Lower Upper
42 100
72 6.6 29.5 44.3#
71 4.5 27.7 41.5#

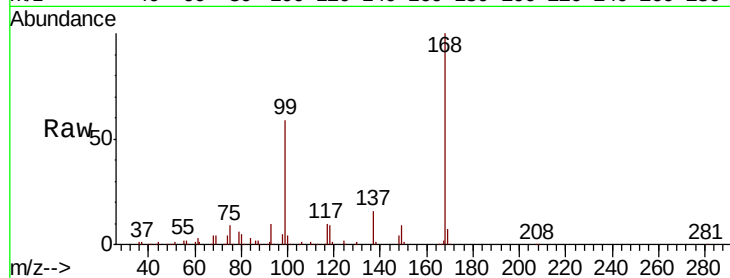




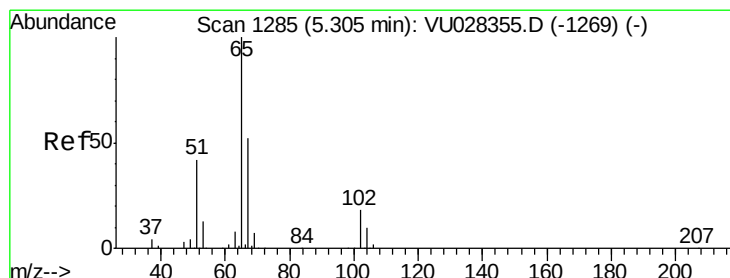
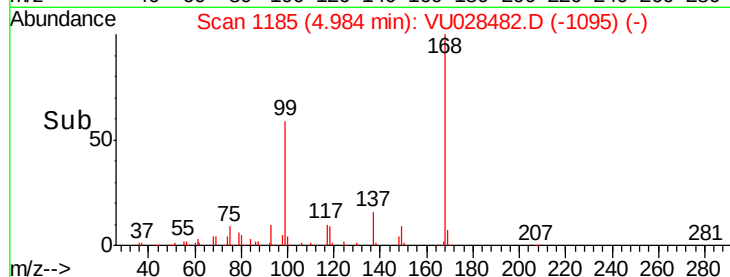
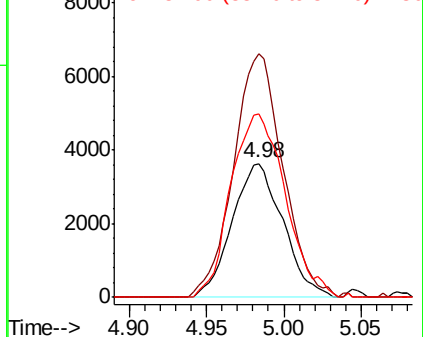
#31
Cyclohexane
Concen: 0.427 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Instrument :
MSVOA_U
ClientSampleId :
OK-02-120418-B

Tot Ion: 56 Resp: 8271
Ion Ratio Lower Upper
56 100
69 182.0 23.7 35.5#
84 137.0 57.3 85.9#

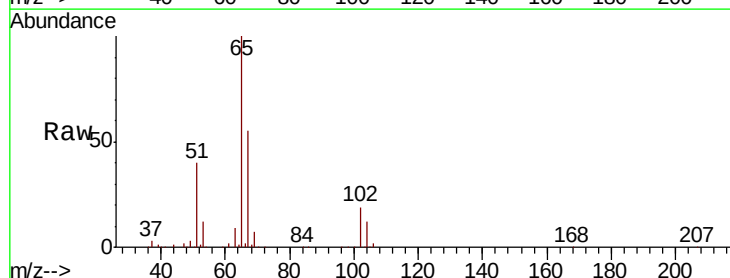


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

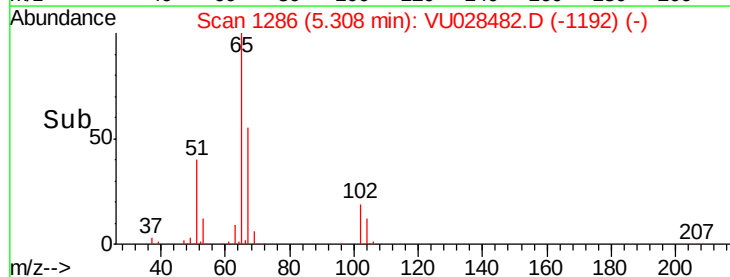
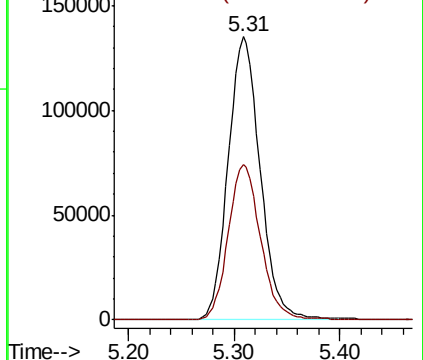


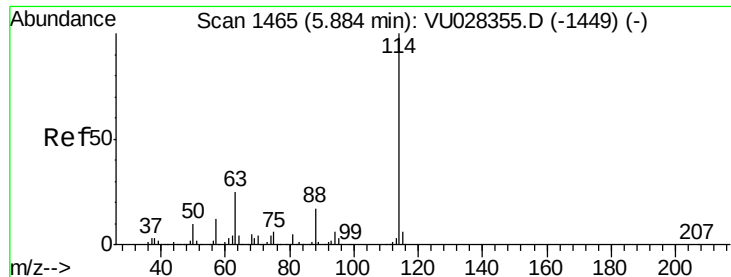
#33
1,2-Dichloroethane-d4
Concen: 46.367 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Tgt Ion: 65 Resp: 284821
Ion Ratio Lower Upper
65 100
67 55.1 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: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

OK-02-120418-B

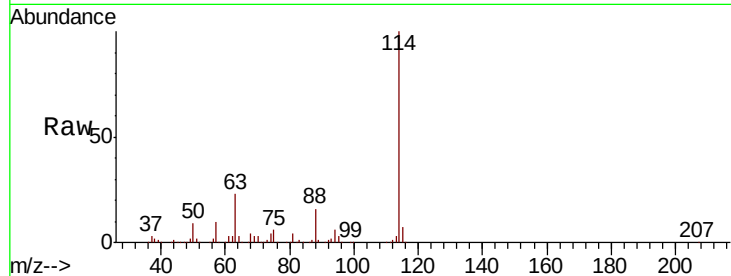
Tot Ion:114 Resp: 675789

Ion Ratio Lower Upper

114 100

63 23.4 0.0 50.0

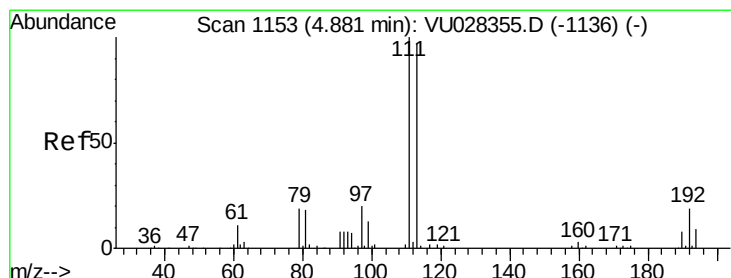
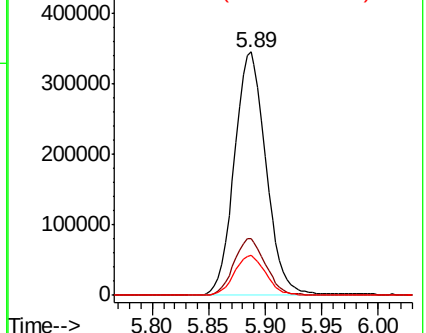
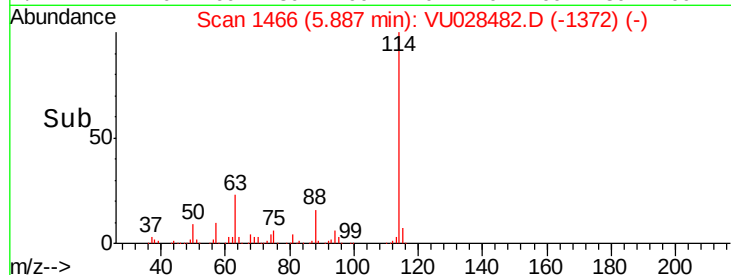
88 16.4 0.0 34.4



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: 19.353 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

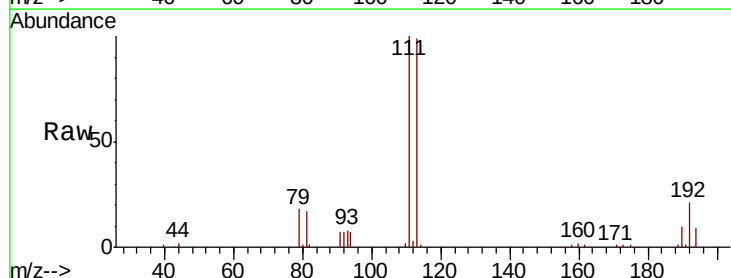
Tgt Ion:113 Resp: 86966

Ion Ratio Lower Upper

113 100

111 99.5 82.9 124.3

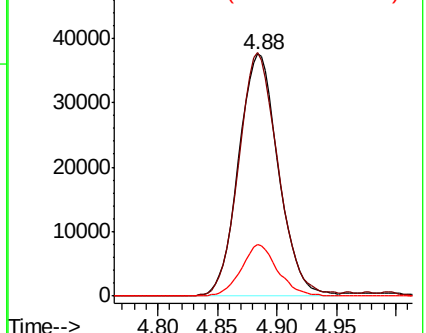
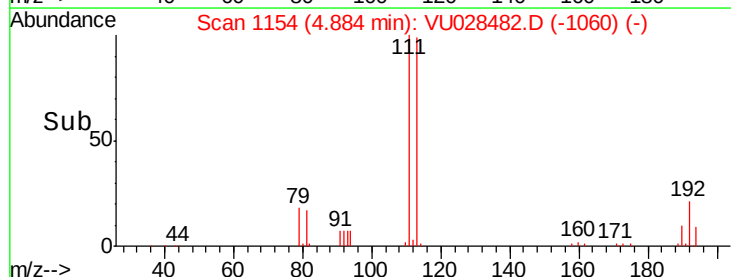
192 19.5 15.4 23.0

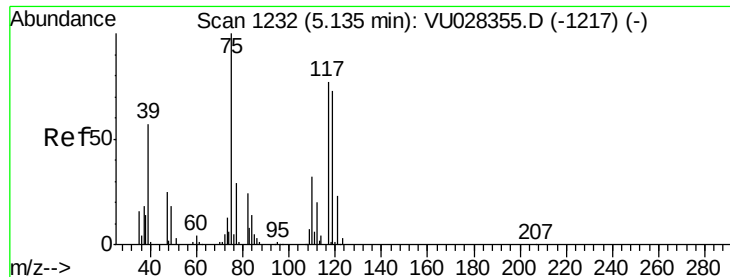


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.276 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

OK-02-120418-B

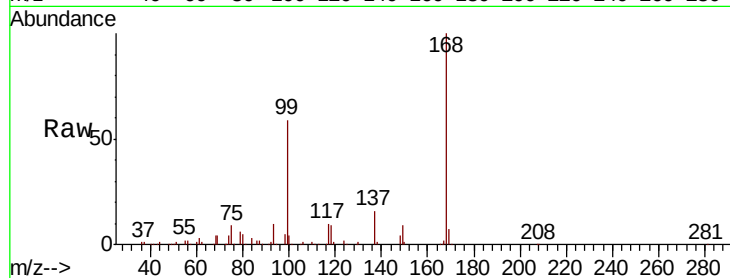
Tot Ion: 75 Resp: 31623

Ion Ratio Lower Upper

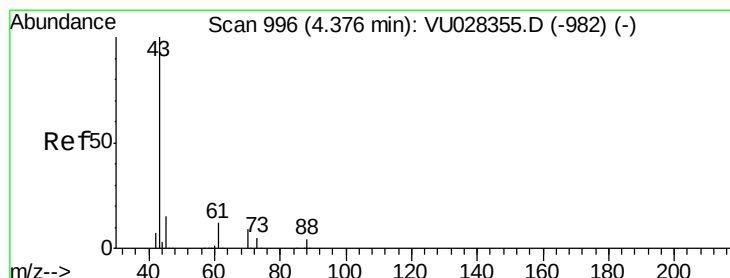
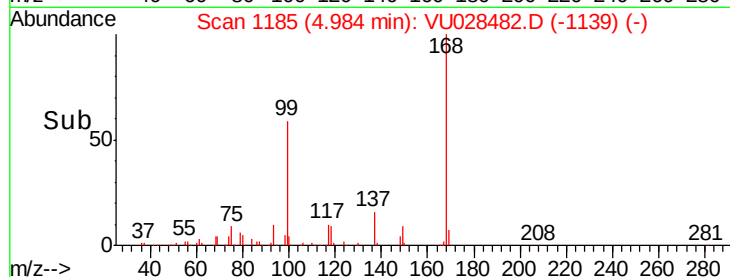
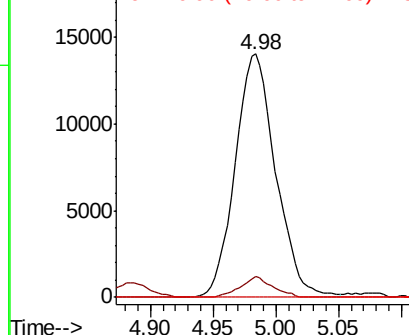
75 100

110 6.6 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: 0.340 ug/l

RT: 4.29 min Scan# 969

Delta R.T. -0.09 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

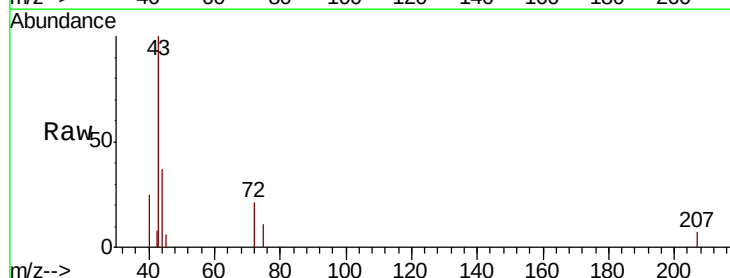
Tgt Ion: 43 Resp: 3423

Ion Ratio Lower Upper

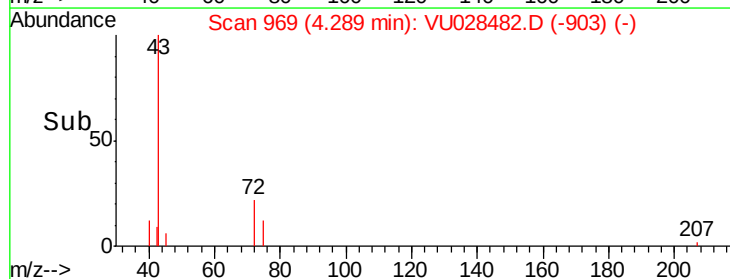
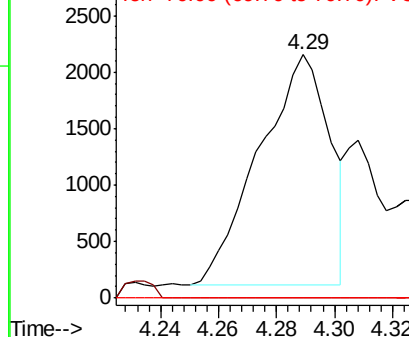
43 100

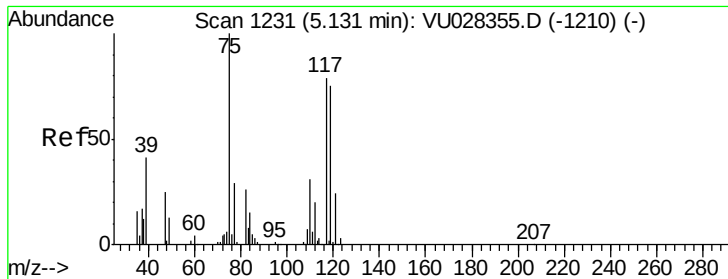
61 0.0 10.2 15.4#

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: 5.849 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

OK-02-120418-B

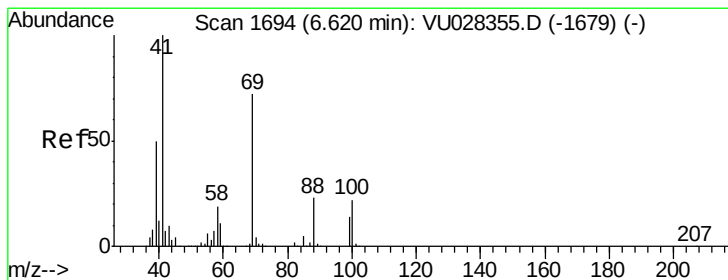
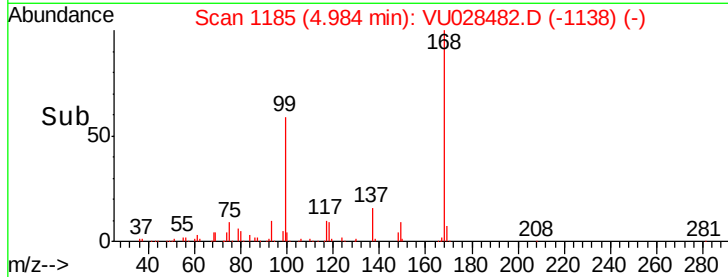
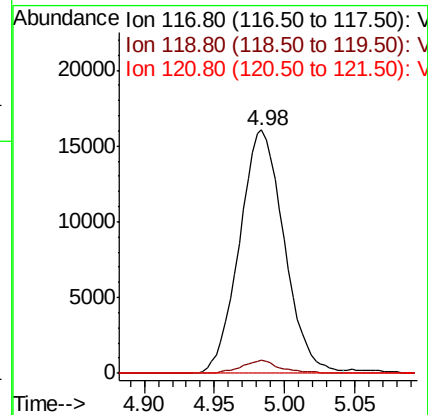
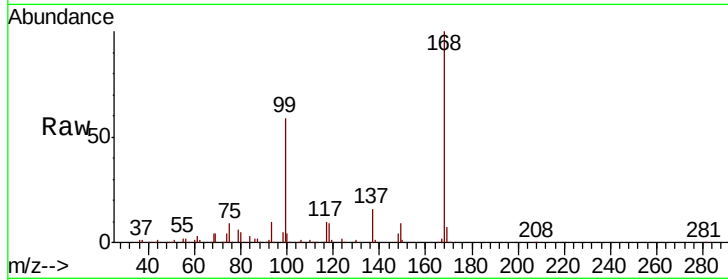
Tot Ion:117 Resp: 35518

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

121 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 2.567 ug/l

RT: 6.54 min Scan# 1668

Delta R.T. -0.08 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

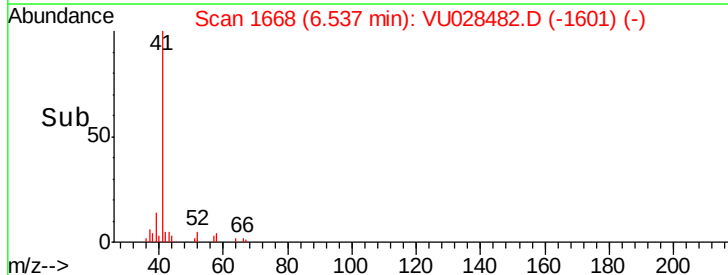
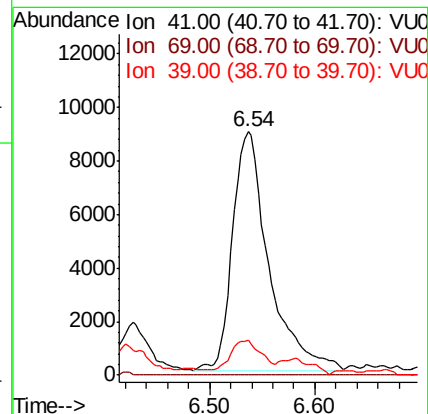
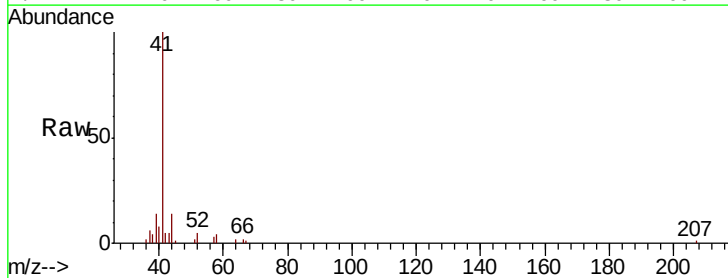
Tgt Ion: 41 Resp: 21352

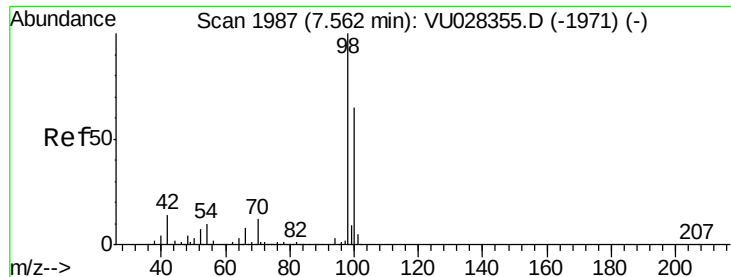
Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.4#

39 13.2 40.5 60.7#





#50

Toluene-d8

Concen: 48.982 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

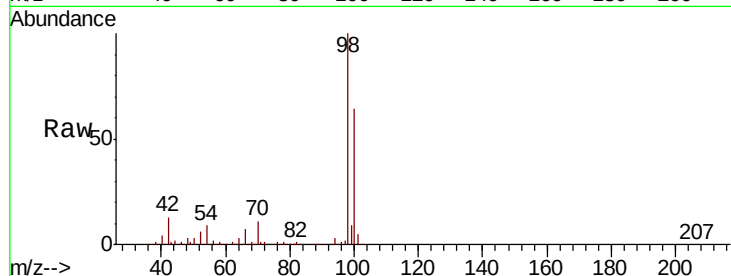
OK-02-120418-B

Tot Ion: 98 Resp: 880294

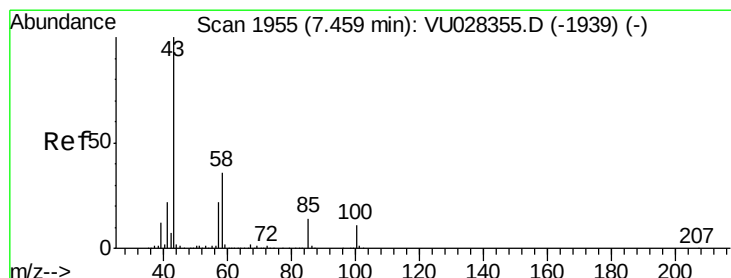
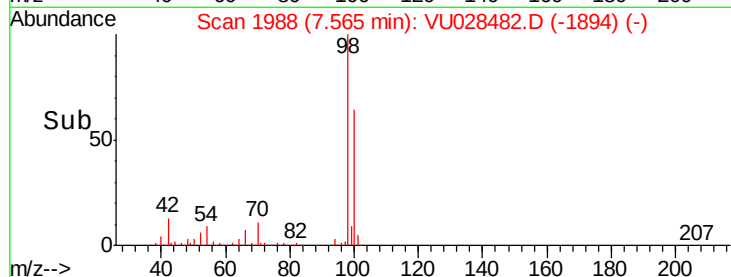
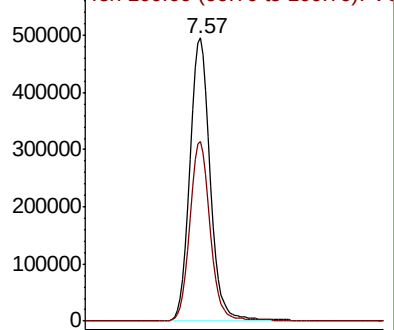
Ion Ratio Lower Upper

98 100

100 63.2 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU028355.D (-1971) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.829 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU028482.D

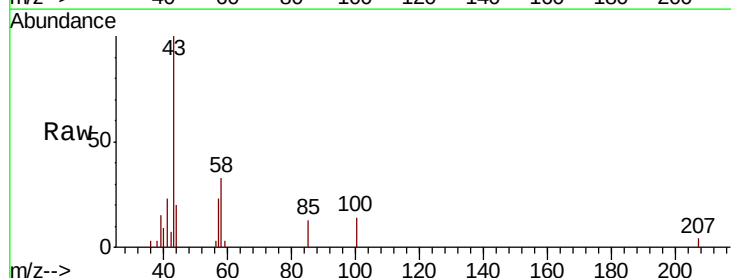
Acq: 05 Dec 2018 15:57

Tgt Ion: 43 Resp: 8451

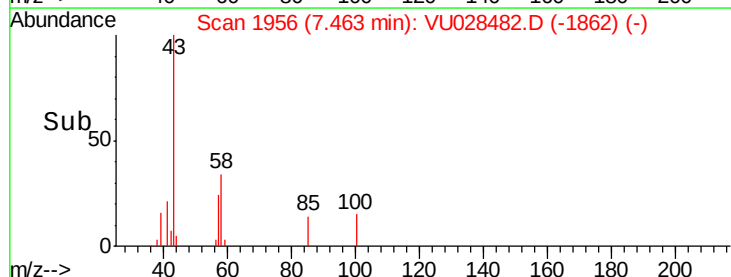
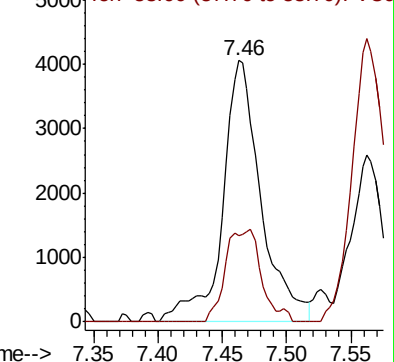
Ion Ratio Lower Upper

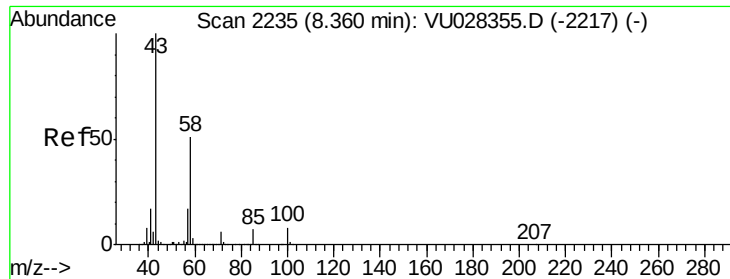
43 100

58 32.8 28.8 43.2



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





#59

2-Hexanone

Concen: 3.127 ug/l

RT: 8.31 min Scan# 2220

Delta R.T. -0.05 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

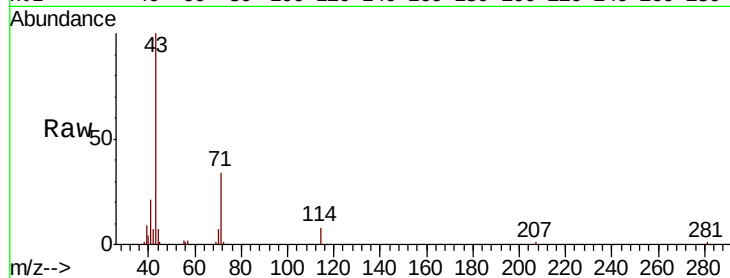
OK-02-120418-B

Tot Ion: 43 Resp: 24704

Ion Ratio Lower Upper

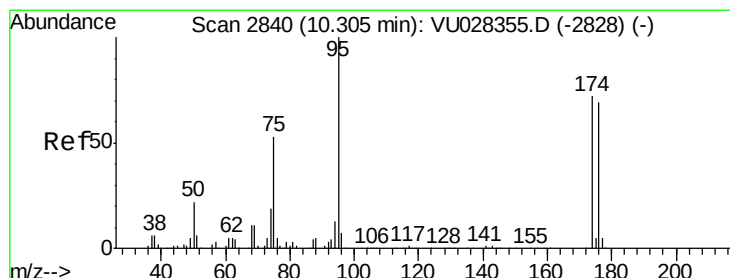
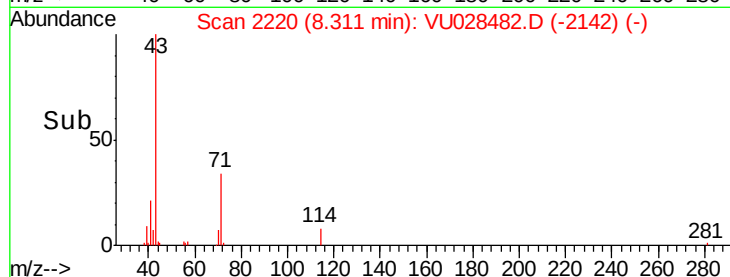
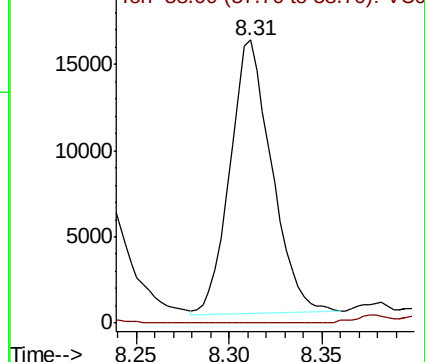
43 100

58 0.0 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: 49.740 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

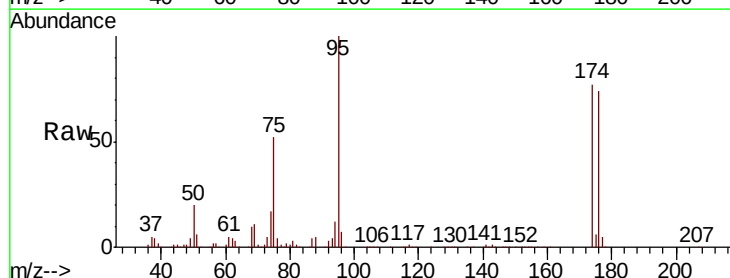
Tgt Ion: 95 Resp: 322191

Ion Ratio Lower Upper

95 100

174 77.4 0.0 145.4

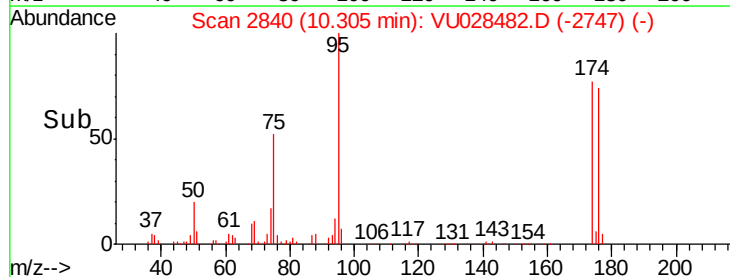
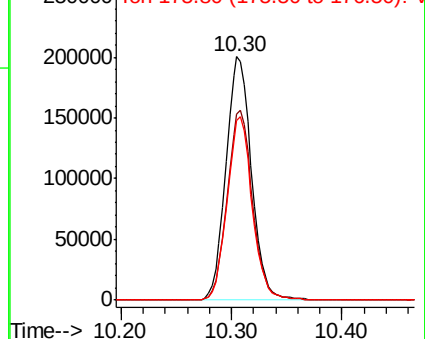
176 74.0 0.0 140.8

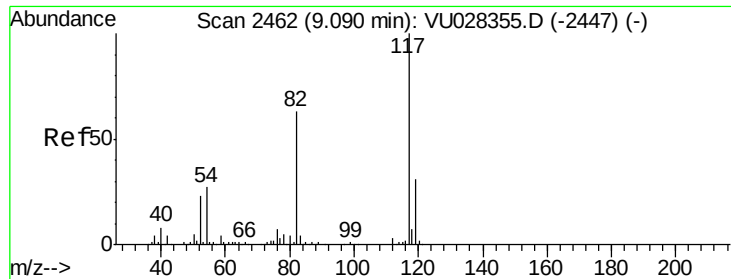


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

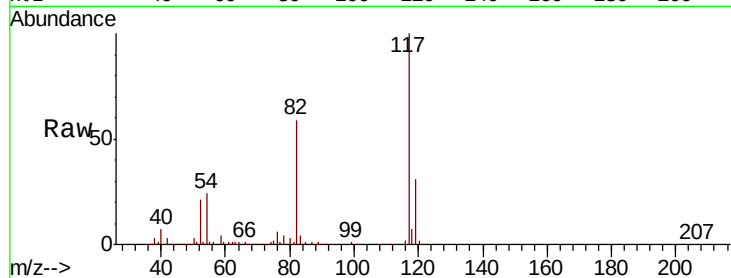




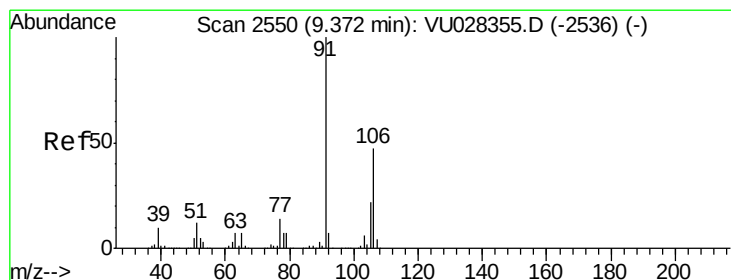
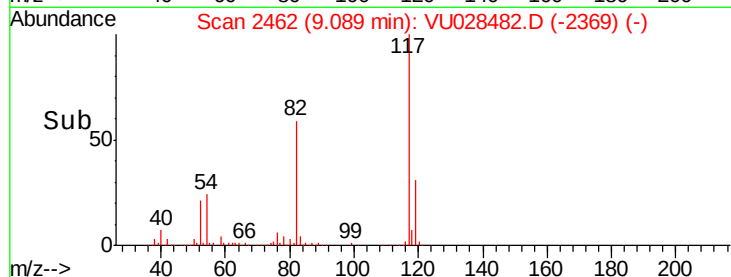
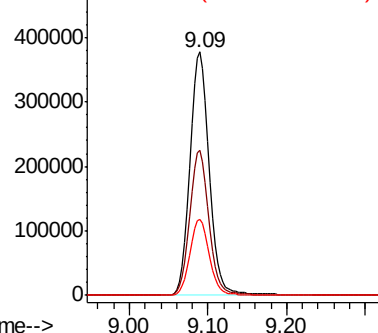
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Instrument :
MSVOA_U
ClientSampleId :
OK-02-120418-B

Tot Ion:117 Resp: 638739
Ion Ratio Lower Upper
117 100
82 59.4 50.3 75.5
119 31.3 24.8 37.2

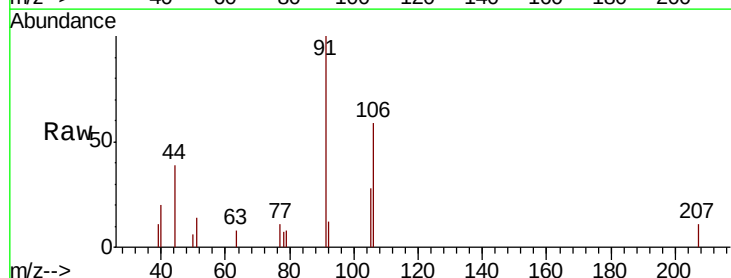


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

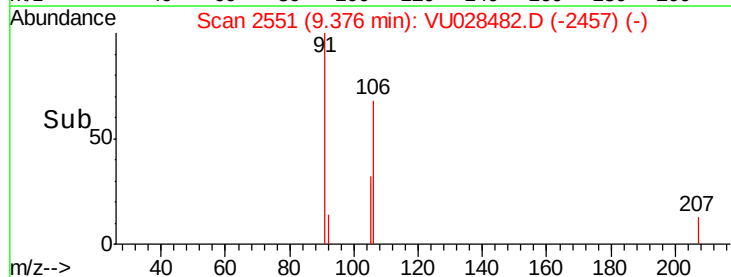
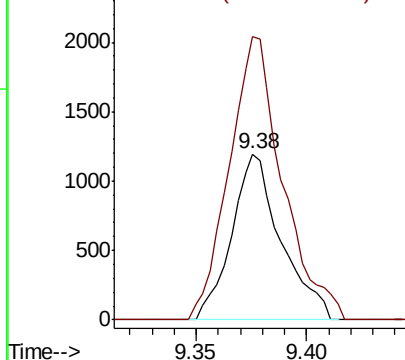


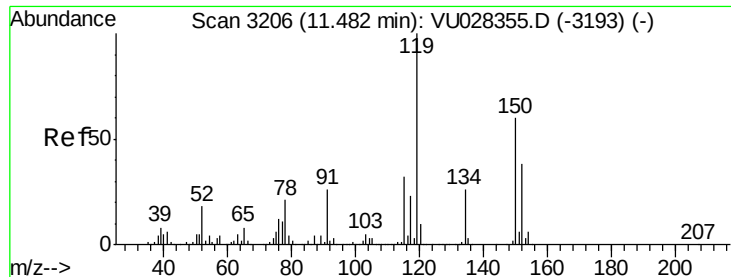
#68
m/p-Xylenes
Concen: 0.206 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Tgt Ion:106 Resp: 1852
Ion Ratio Lower Upper
106 100
91 184.9 171.0 256.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



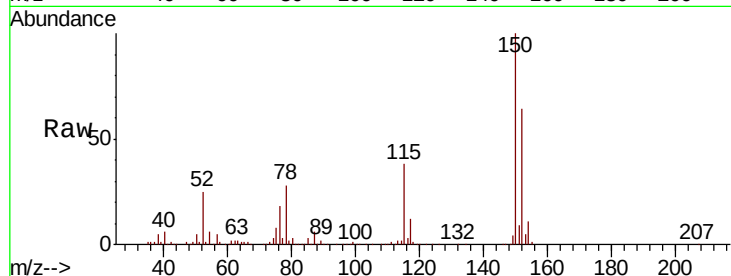


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

Instrument :
MSVOA_U
ClientSampleId :
OK-02-120418-B

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.5	45.0	134.8
150	157.1	0.0	349.2

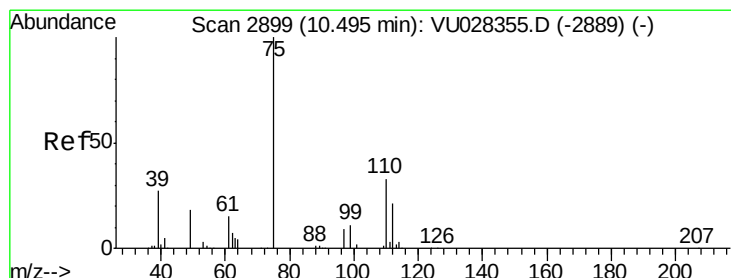
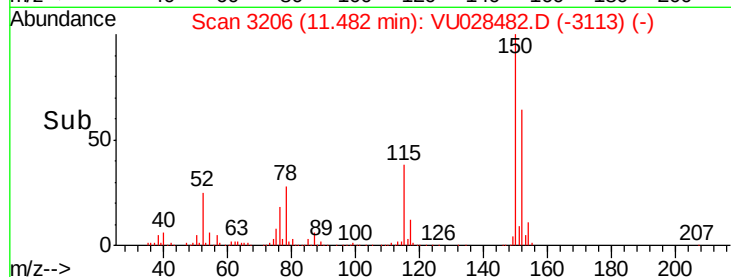
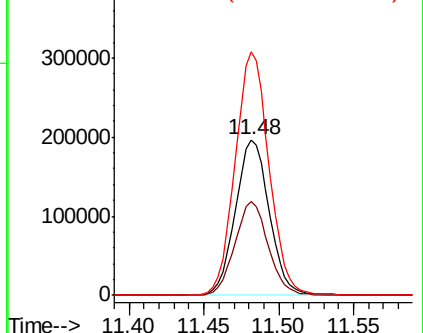


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

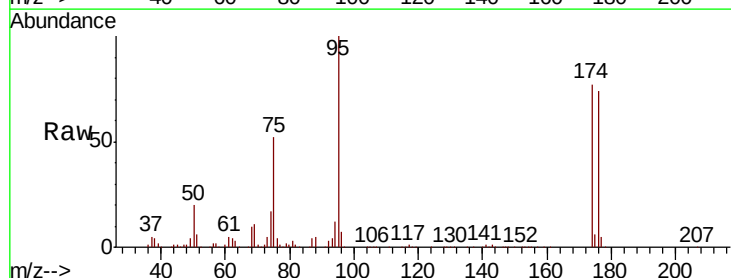
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 19.304 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.19 min
Lab File: VU028482.D
Acq: 05 Dec 2018 15:57

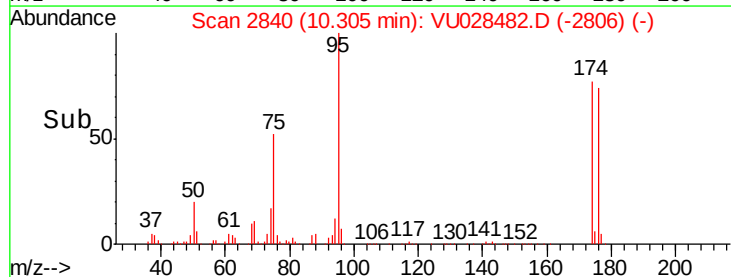
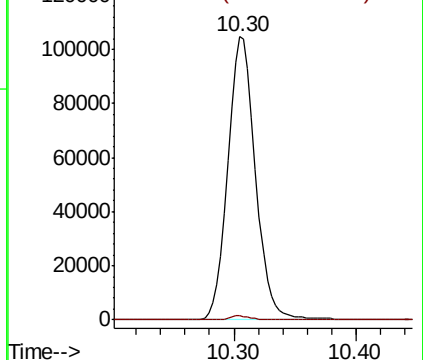
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	22.4	67.0#

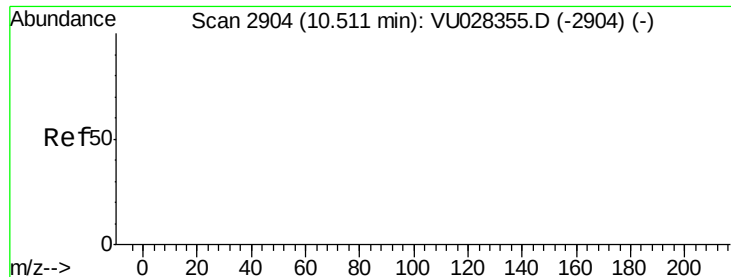


Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.242 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

OK-02-120418-B

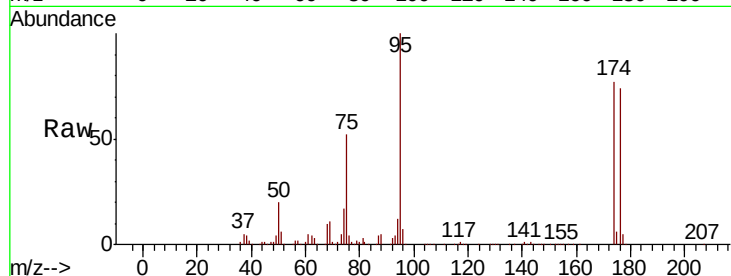
Tot Ion: 75 Resp: 165867

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

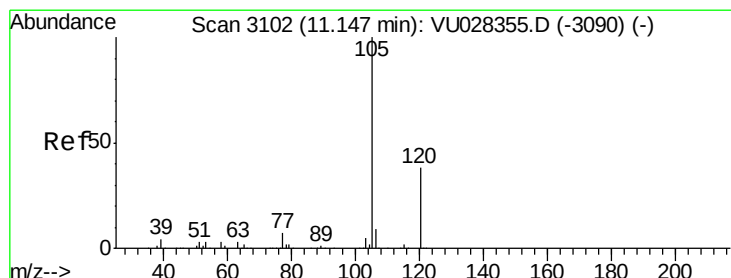
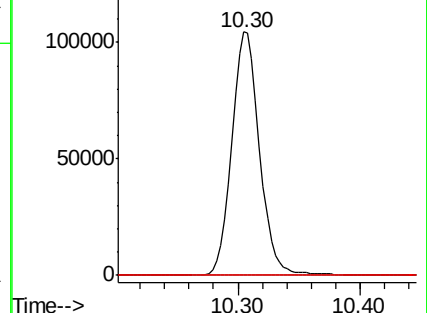
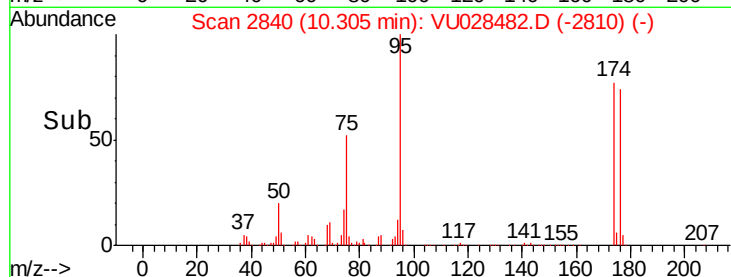
89 0.0 0.0 0.0



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: 0.213 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.00 min

Lab File: VU028482.D

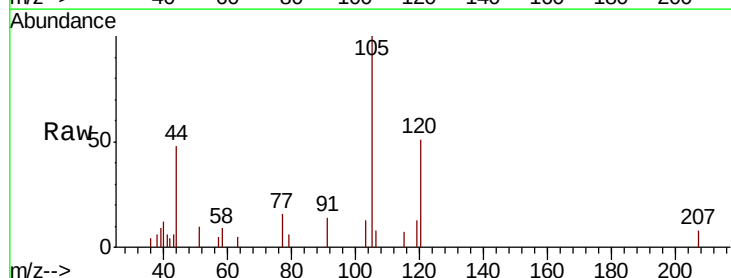
Acq: 05 Dec 2018 15:57

Tgt Ion: 105 Resp: 4382

Ion Ratio Lower Upper

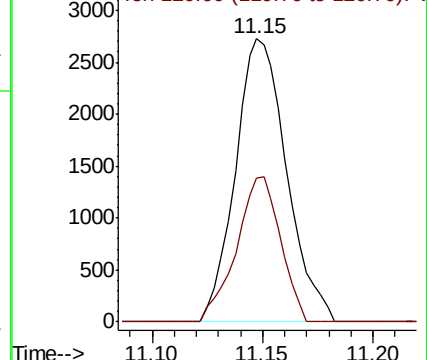
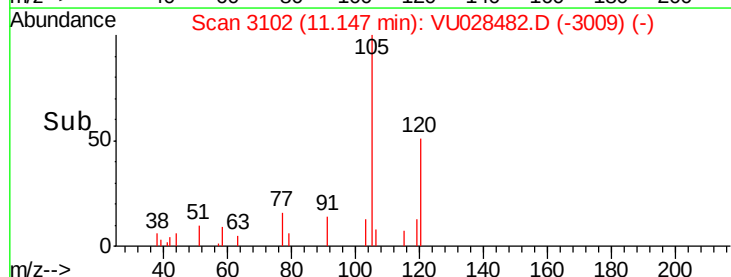
105 100

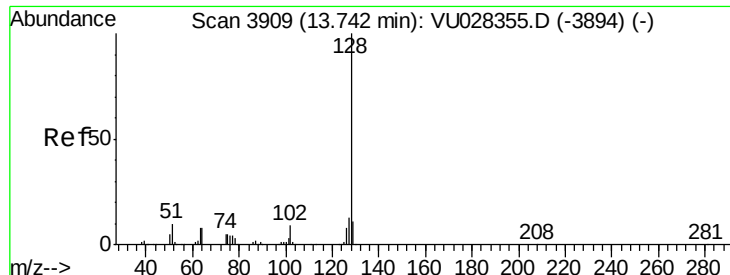
120 44.2 21.4 64.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 4.475 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028482.D

Acq: 05 Dec 2018 15:57

Instrument :

MSVOA_U

ClientSampleId :

OK-02-120418-B

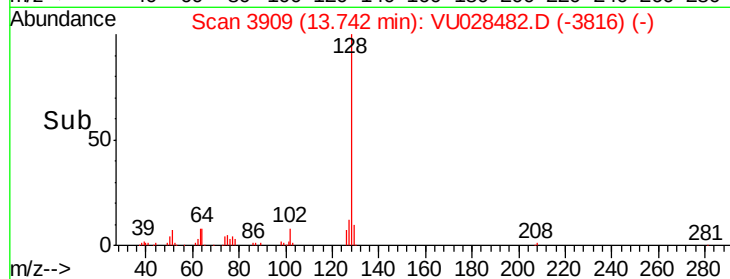
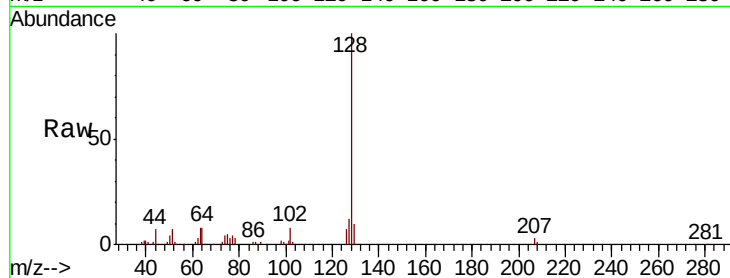
Tot Ion:128 Resp: 45333

Ion Ratio Lower Upper

128 100

127 11.5 10.6 15.8

129 11.2 8.6 12.8



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

