

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120318\
 Data File : VU028452.D
 Acq On : 03 Dec 2018 19:25
 Operator : MD/SY
 Sample : J6149-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BUS-WASH

Quant Time: Dec 04 06:59:06 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	292638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	547644	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	512075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	238052	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	245242	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
35) Dibromofluoromethane	4.88	113	180893	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	7.57	98	710182	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	10.30	95	258321	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

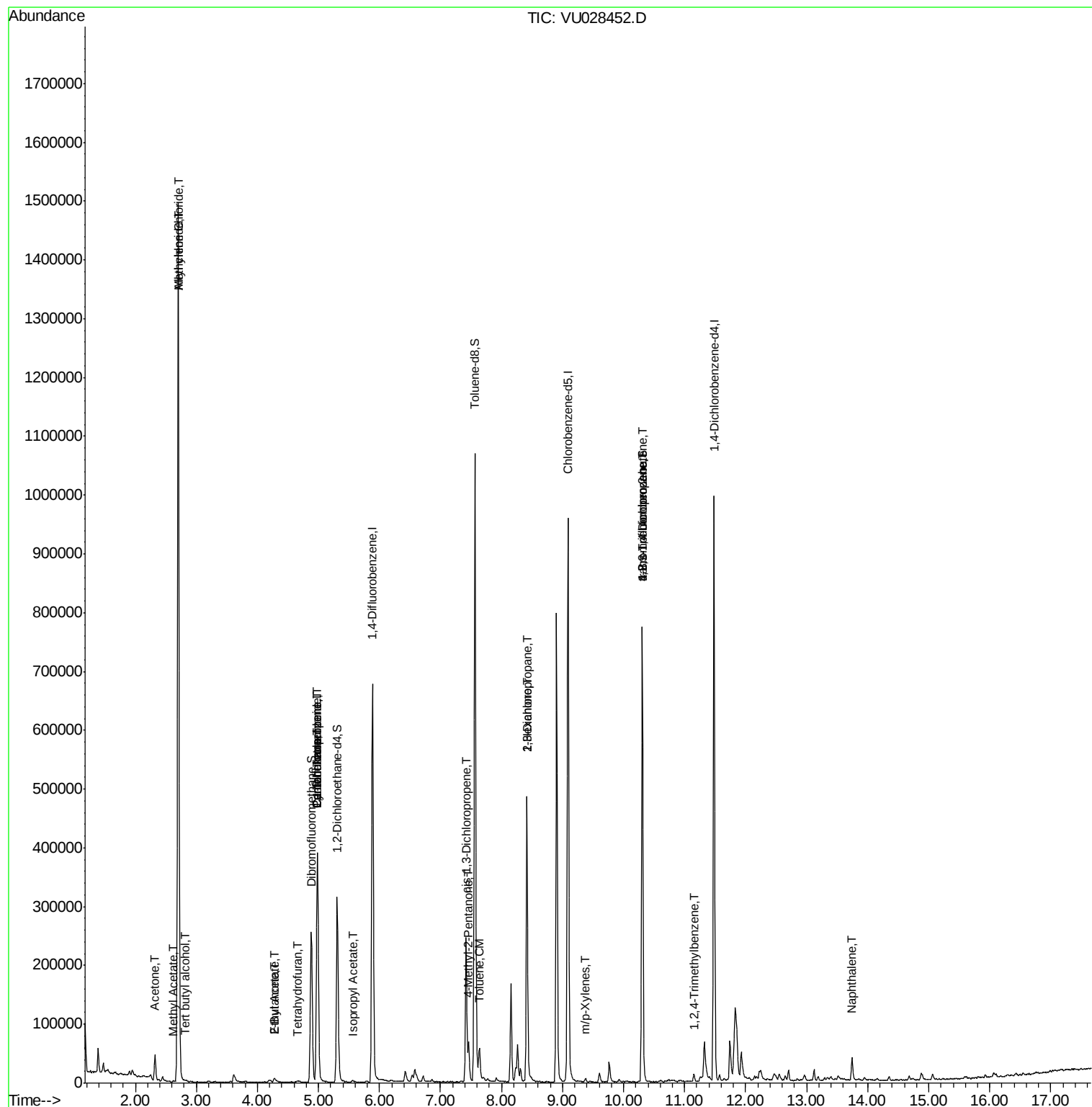
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	1068	0.961	ug/l #	77
14) Allyl chloride	2.70	41	27655	3.386	ug/l #	28
16) Acetone	2.32	43	46688	15.605	ug/l	99
18) Methyl Acetate	2.62	43	2496	0.300	ug/l	96
20) Methylene Chloride	2.70	84	605934	143.733	ug/l	94
25) 2-Butanone	4.28	43	11249	2.624	ug/l	98
29) Tetrahydrofuran	4.65	42	1637	0.588	ug/l #	70
31) Cyclohexane	4.98	56	7434	0.532	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	25409	4.240	ug/l #	51
37) Ethyl Acetate	4.28	43	11249	1.377	ug/l #	71
38) Carbon Tetrachloride	4.99	117	28289	5.748	ug/l #	15
43) Isopropyl Acetate	5.56	43	4222	0.326	ug/l #	86
51) 4-Methyl-2-Pentanone	7.46	43	43282	5.236	ug/l	94
52) Toluene	7.64	92	20687	2.024	ug/l	98
54) cis-1,3-Dichloropropene	7.42	75	42159	5.542	ug/l #	58
57) 1,3-Dichloropropane	8.41	76	4764	0.611	ug/l #	43
59) 2-Hexanone	8.41	43	74451	11.628	ug/l #	54
68) m/p-Xylenes	9.37	106	1604	0.223	ug/l	85
76) 1,2,3-Trichloropropane	10.30	75	132925	20.136	ug/l #	33
81) trans-1,4-Dichloro-2-buten	10.30	75	132925	53.451	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	3891	0.246	ug/l	97
95) Naphthalene	13.74	128	32184	4.351	ug/l	95

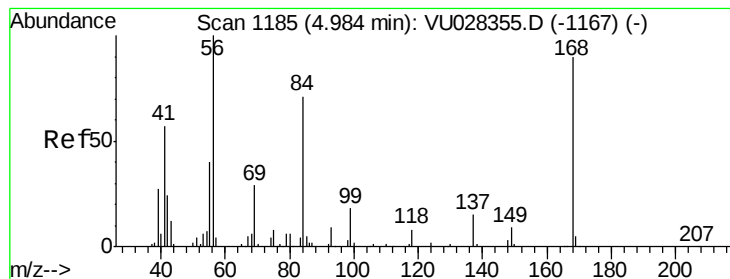
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

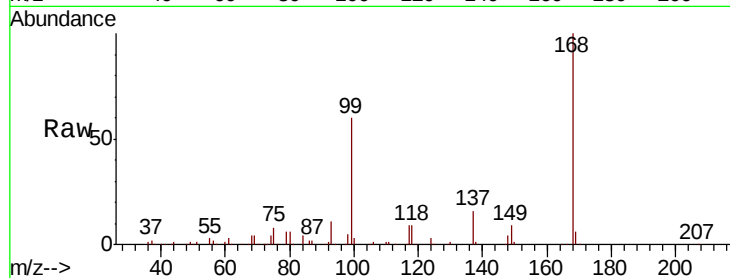
BUS-WASH

Tot Ion:168 Resp: 292638

Ion Ratio Lower Upper

168 100

99 60.5 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

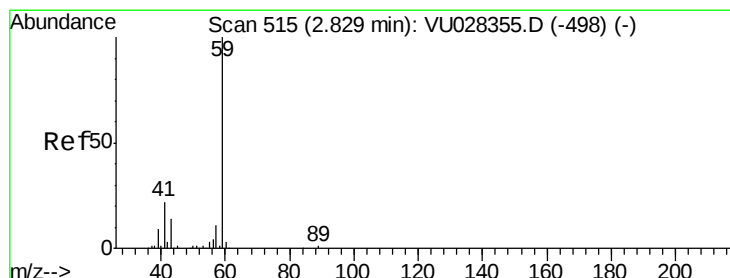
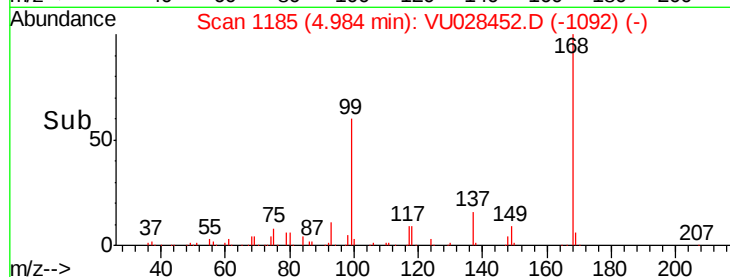
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.961 ug/l

RT: 2.83 min Scan# 515

Delta R.T. 0.00 min

Lab File: VU028452.D

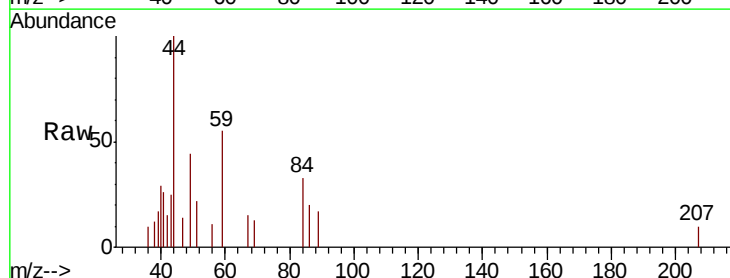
Acq: 03 Dec 2018 19:25

Tgt Ion: 59 Resp: 1068

Ion Ratio Lower Upper

59 100

57 1.8 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) (-)

2.83

600

500

400

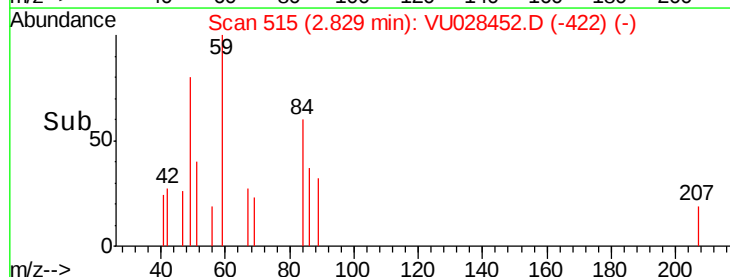
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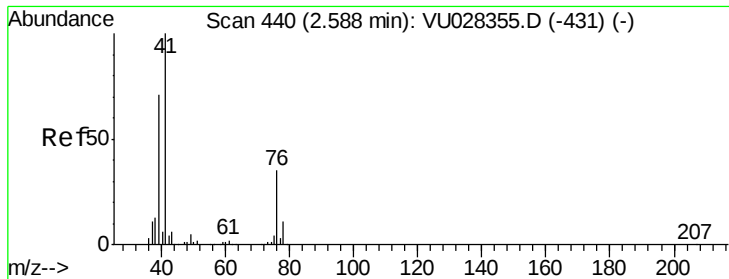
200

100

0

Time-->

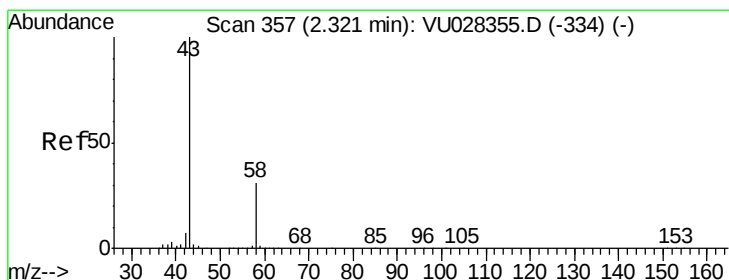
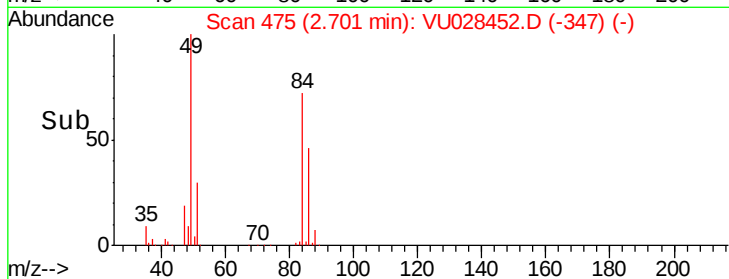
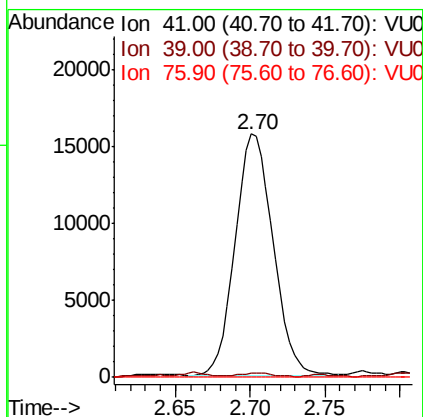
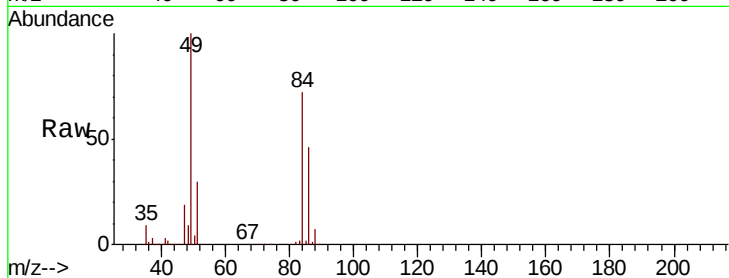




#14
Allvl chloride
Concen: 3.386 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.11 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

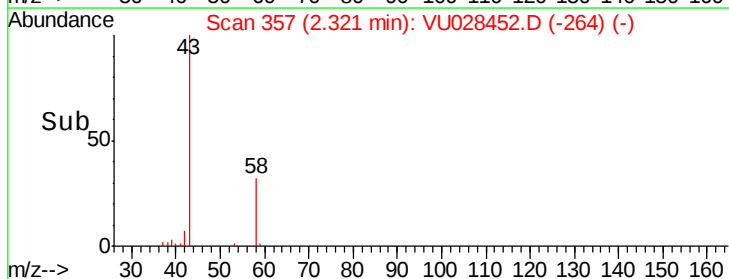
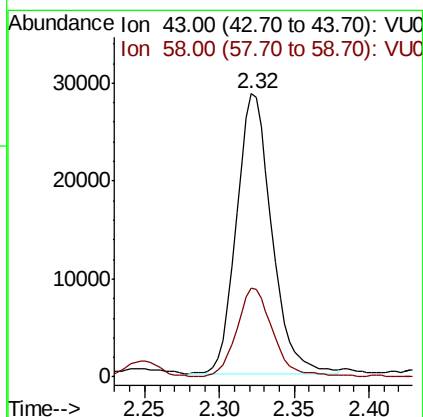
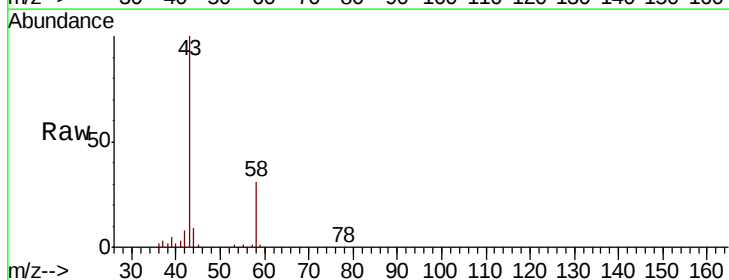
Instrument :
MSVOA_U
ClientSampleId :
BUS-WASH

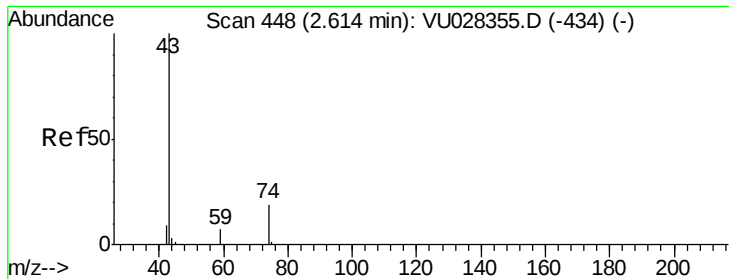
Tot Ion: 41 Resp: 27655
Ion Ratio Lower Upper
41 100
39 1.6 51.6 77.4#
76 0.0 24.4 36.6#



#16
Acetone
Concen: 15.605 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Tgt Ion: 43 Resp: 46688
Ion Ratio Lower Upper
43 100
58 31.3 24.4 36.6





#18

Methyl Acetate

Concen: 0.300 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

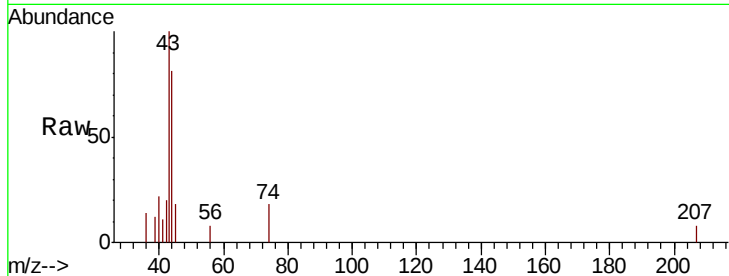
BUS-WASH

Tot Ion: 43 Resp: 2496

Ion Ratio Lower Upper

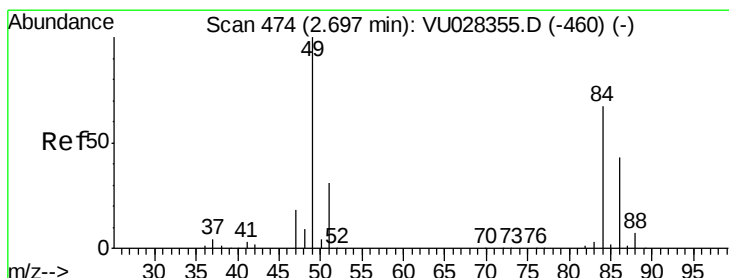
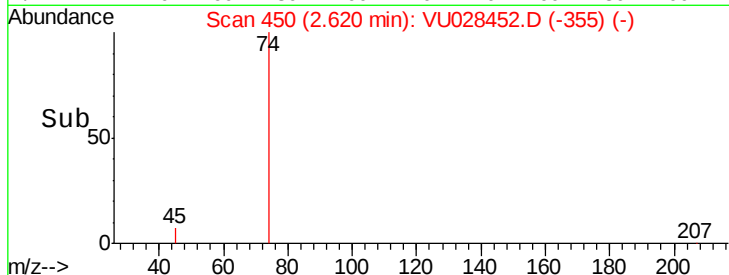
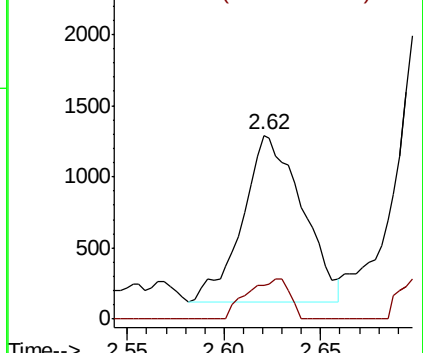
43 100

74 17.1 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: 143.733 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Tgt Ion: 84 Resp: 605934

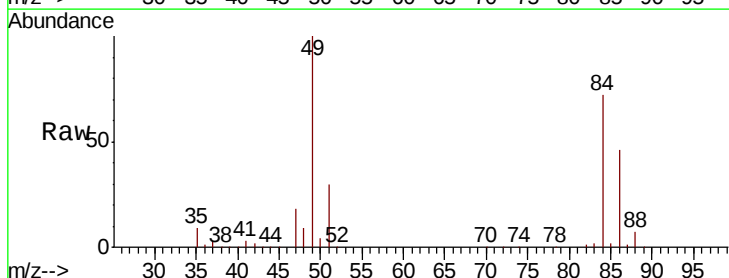
Ion Ratio Lower Upper

84 100

49 139.0 120.0 180.0

51 42.3 36.9 55.3

86 64.2 51.1 76.7

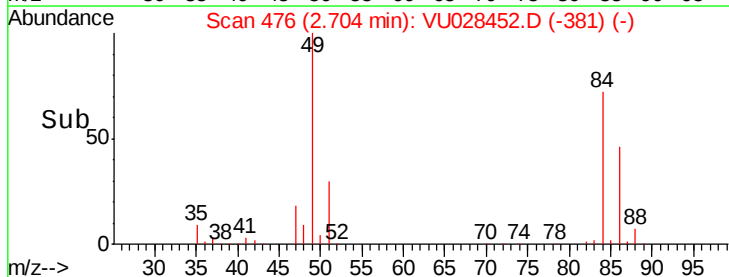
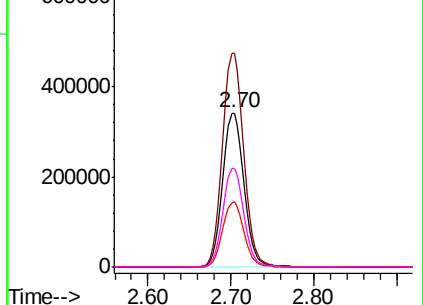


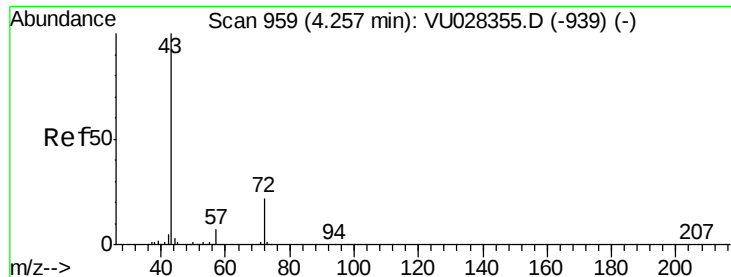
Abundance Ion 83.90 (83.60 to 84.60): VU0

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

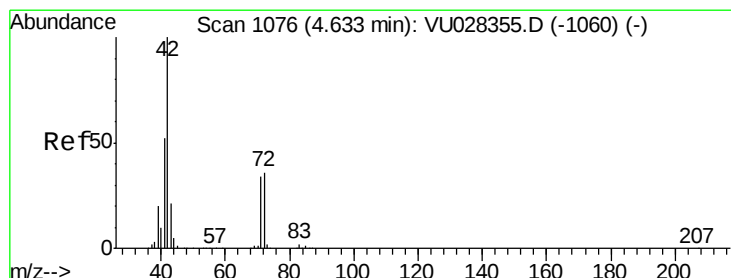
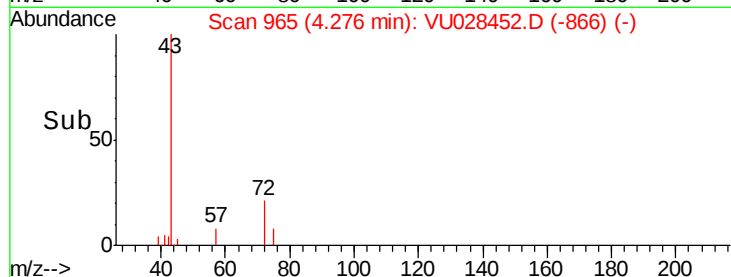
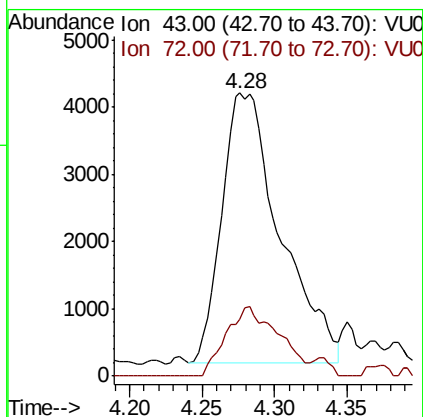
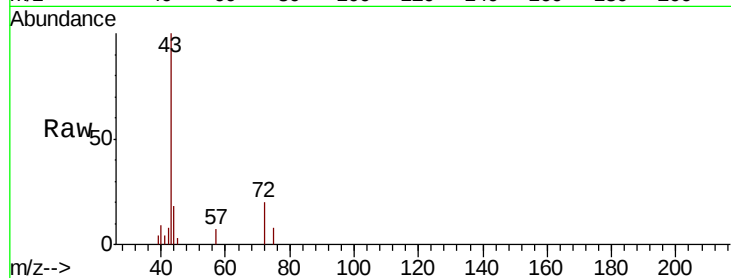




#25
2-Butanone
Concen: 2.624 ug/l
RT: 4.28 min Scan# 965
Delta R.T. 0.02 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

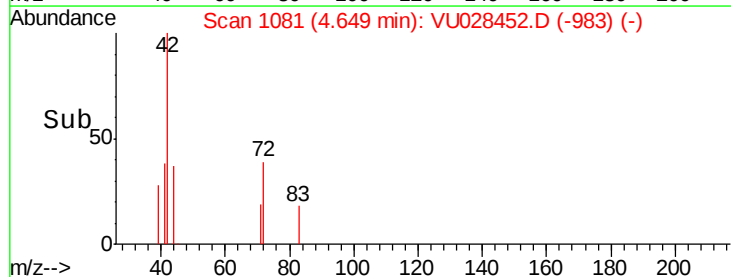
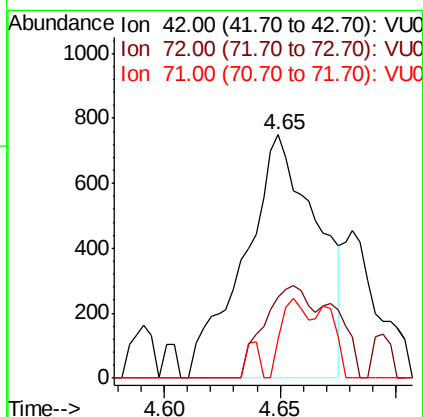
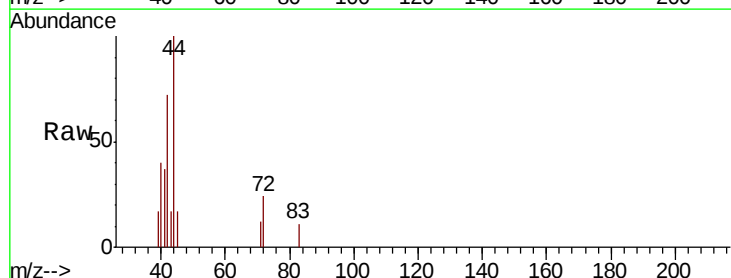
Instrument :
MSVOA_U
ClientSampleId :
BUS-WASH

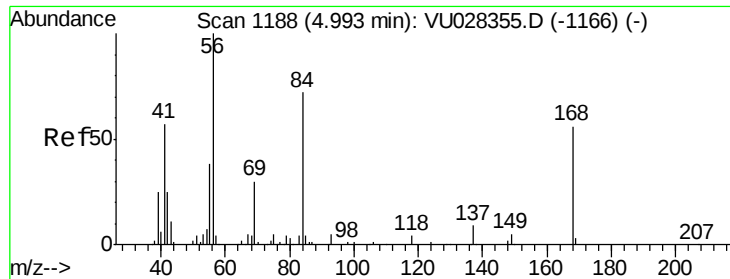
Tot Ion: 43 Resp: 11249
Ion Ratio Lower Upper
43 100
72 21.2 17.7 26.5



#29
Tetrahydrofuran
Concen: 0.588 ug/l
RT: 4.65 min Scan# 1081
Delta R.T. 0.02 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Tgt Ion: 42 Resp: 1637
Ion Ratio Lower Upper
42 100
72 24.8 29.5 44.3#
71 11.5 27.7 41.5#

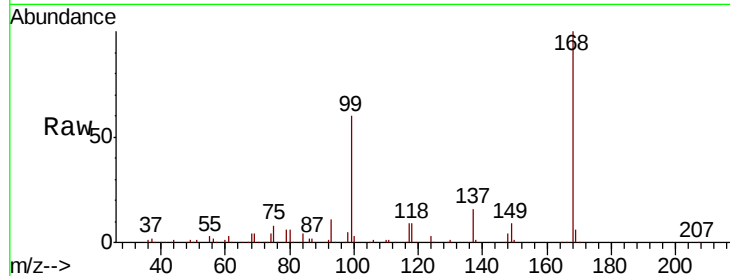




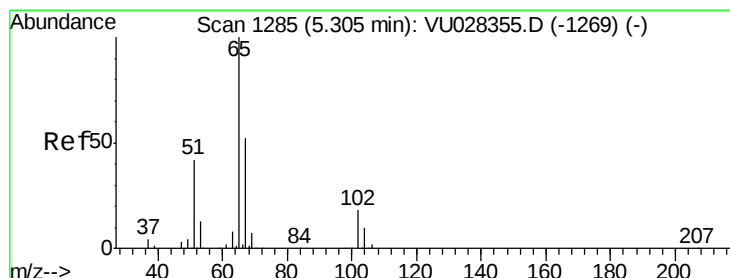
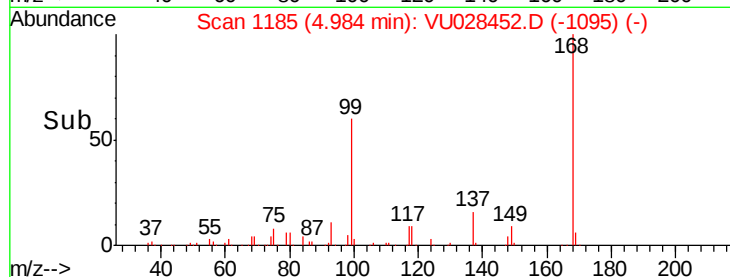
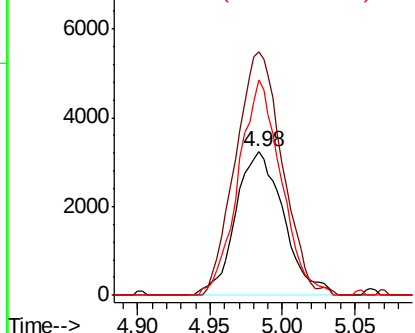
#31
Cyclohexane
Concen: 0.532 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Instrument :
MSVOA_U
ClientSampleId :
BUS-WASH

Tot Ion: 56 Resp: 7434
Ion Ratio Lower Upper
56 100
69 170.1 23.7 35.5#
84 150.3 57.3 85.9#

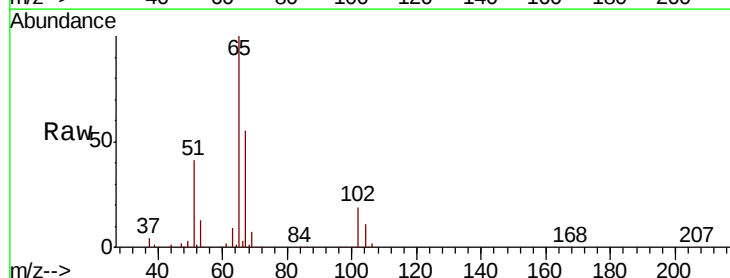


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

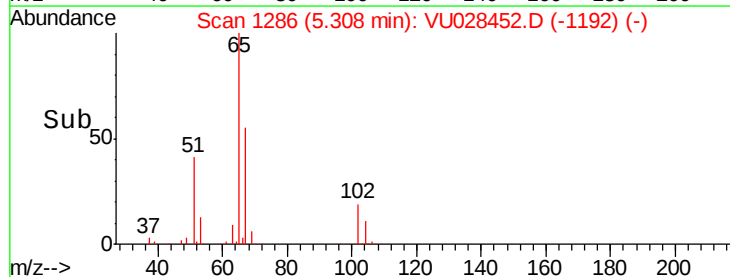
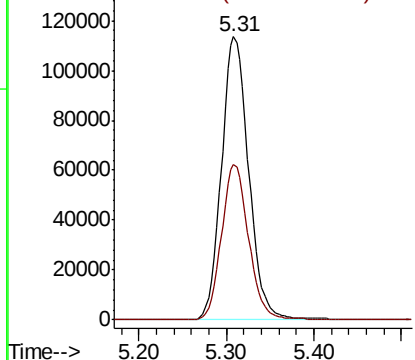


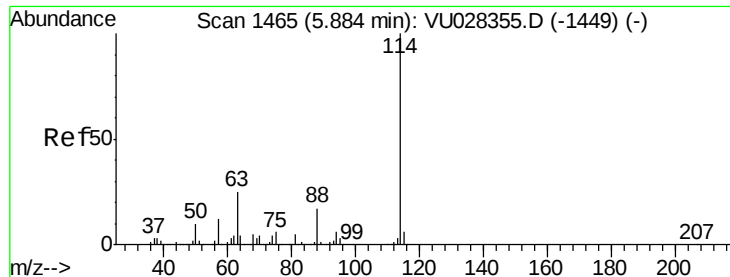
#33
1,2-Dichloroethane-d4
Concen: 50.144 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Tgt Ion: 65 Resp: 245242
Ion Ratio Lower Upper
65 100
67 54.6 0.0 106.8



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

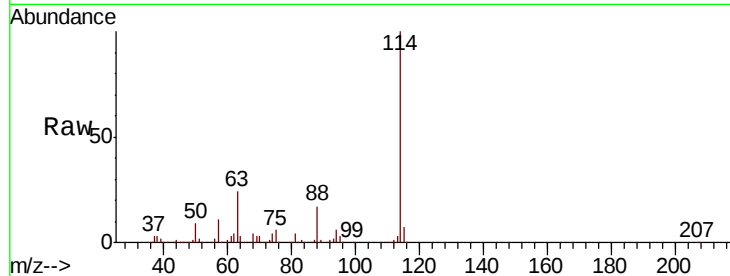




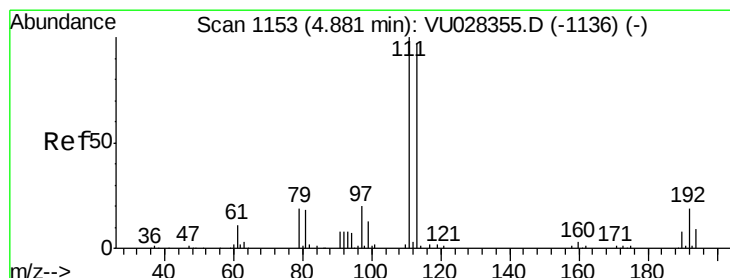
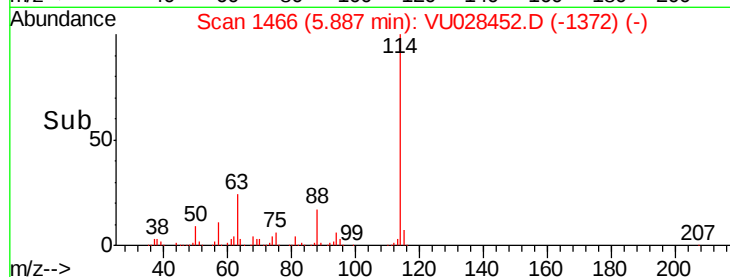
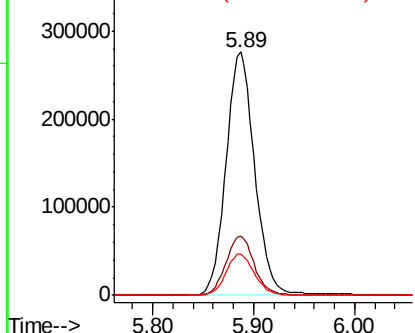
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1466
Delta R.T. 0.00 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Instrument :
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Tot Ion:114 Resp: 547644
Ion Ratio Lower Upper
114 100
63 24.5 0.0 50.0
88 17.0 0.0 34.4

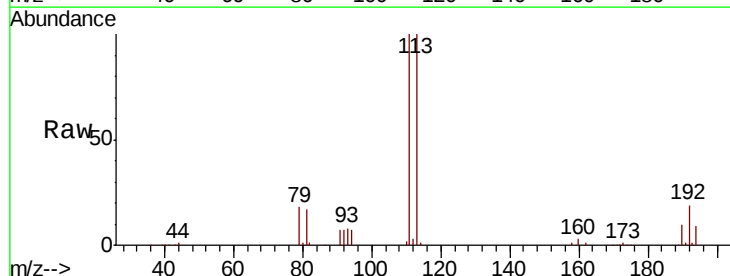


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

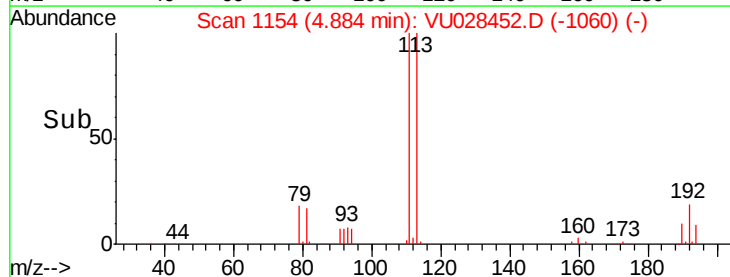
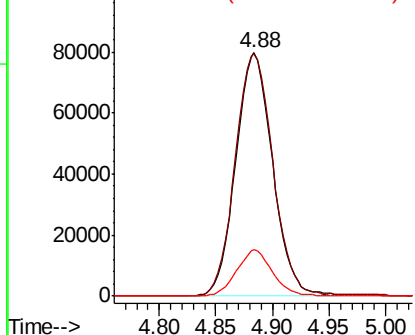


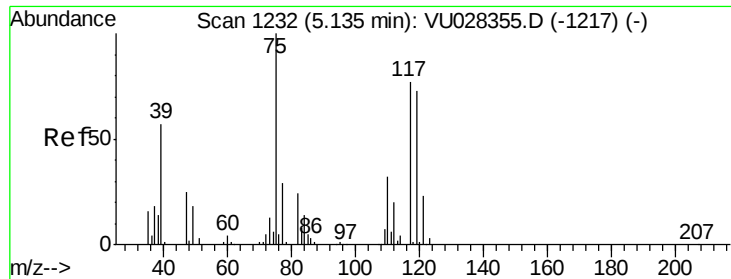
#35
Dibromofluoromethane
Concen: 49.674 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. 0.00 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Tgt Ion:113 Resp: 180893
Ion Ratio Lower Upper
113 100
111 102.1 82.9 124.3
192 18.5 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

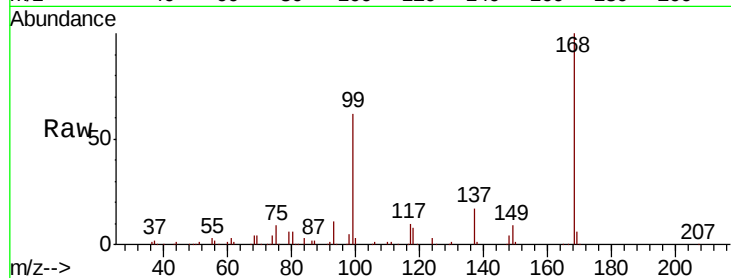




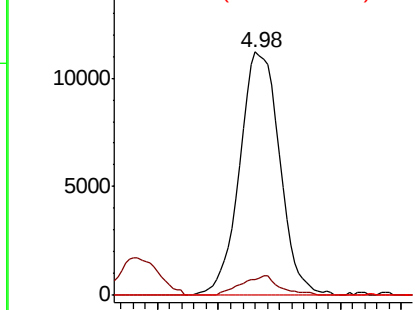
#36
 1,1-Dichloropropene
 Concen: 4.240 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU028452.D
 Acq: 03 Dec 2018 19:25

Instrument :
 MSVOA_U
 ClientSampleId :
 BUS-WASH

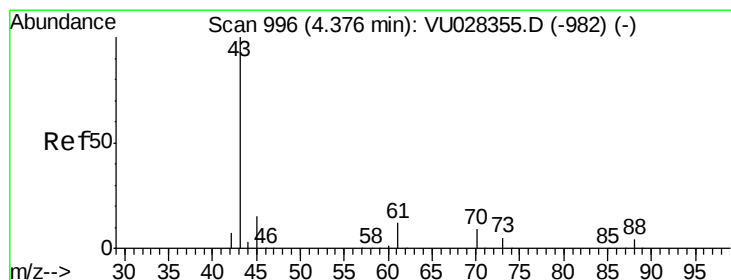
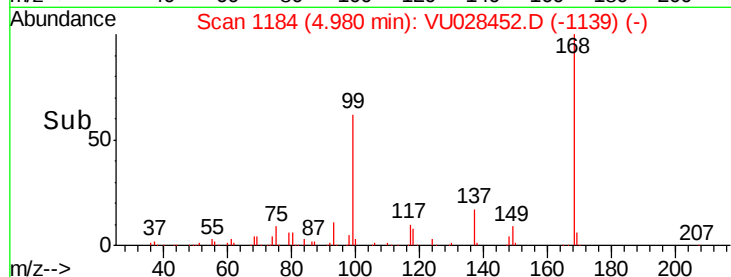
Tot Ion: 75 Resp: 25409
 Ion Ratio Lower Upper
 75 100
 110 7.7 15.8 47.4#
 77 0.0 24.6 36.8#



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

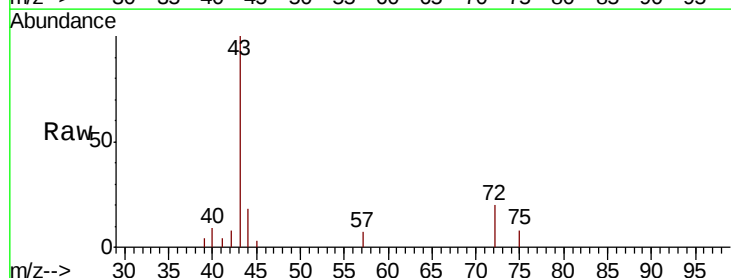


Time-->

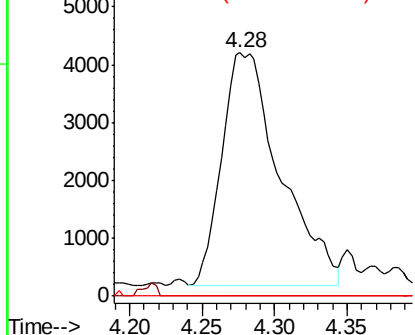


#37
 Ethyl Acetate
 Concen: 1.377 ug/l
 RT: 4.28 min Scan# 965
 Delta R.T. -0.10 min
 Lab File: VU028452.D
 Acq: 03 Dec 2018 19:25

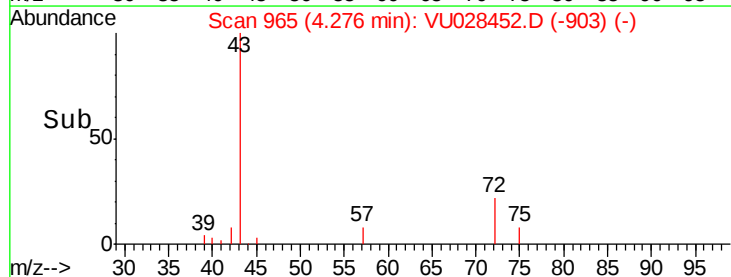
Tgt Ion: 43 Resp: 11249
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 0.0 6.9 10.3#

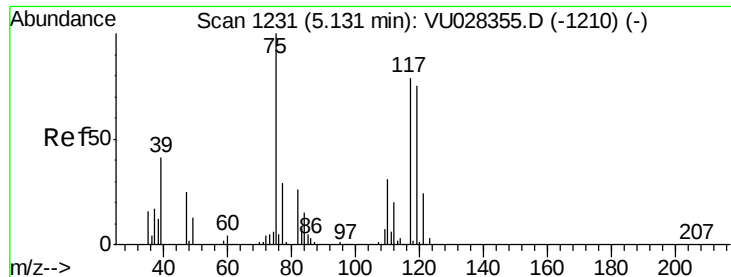


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 70.00 (69.70 to 70.70): VU0



Time-->





#38

Carbon Tetrachloride

Concen: 5.748 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.14 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

BUS-WASH

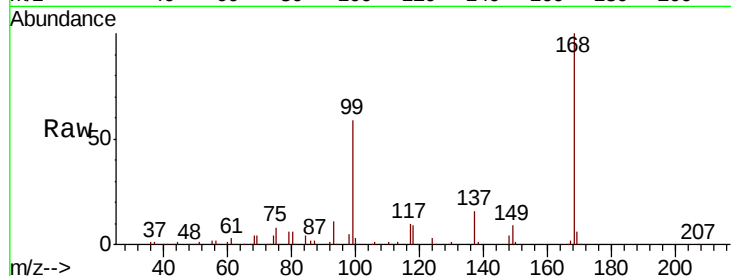
Tot Ion:117 Resp: 28289

Ion Ratio Lower Upper

117 100

119 3.5 76.3 114.5#

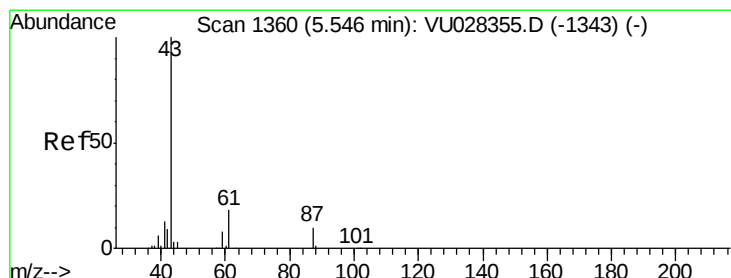
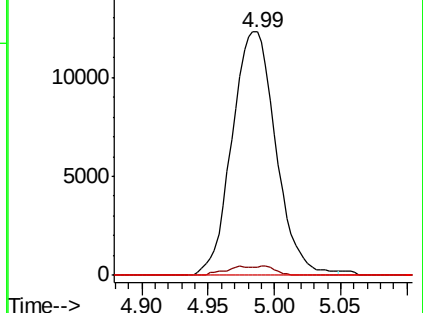
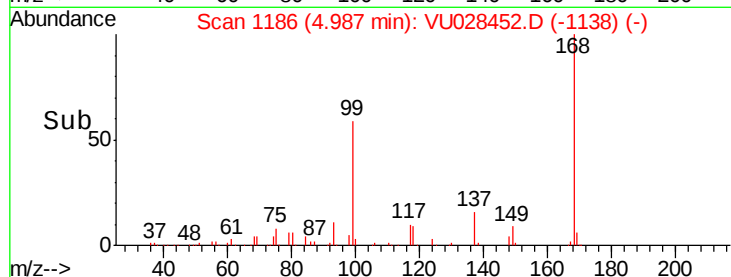
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 0.326 ug/l

RT: 5.56 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

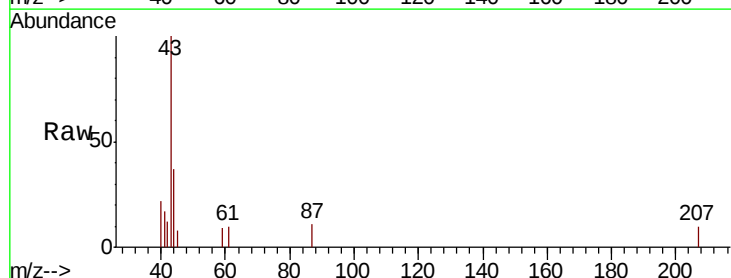
Tgt Ion: 43 Resp: 4222

Ion Ratio Lower Upper

43 100

61 10.2 14.5 21.7#

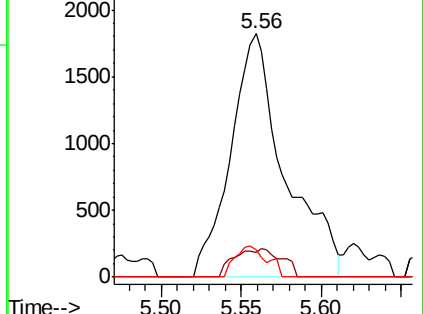
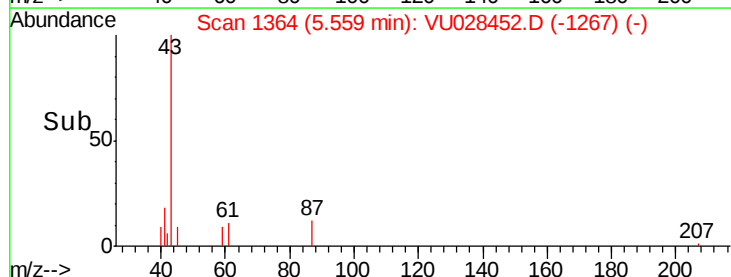
87 7.3 8.4 12.6#

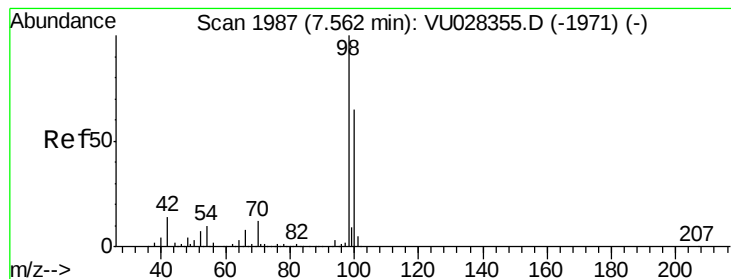


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#50

Toluene-d8

Concen: 48.763 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

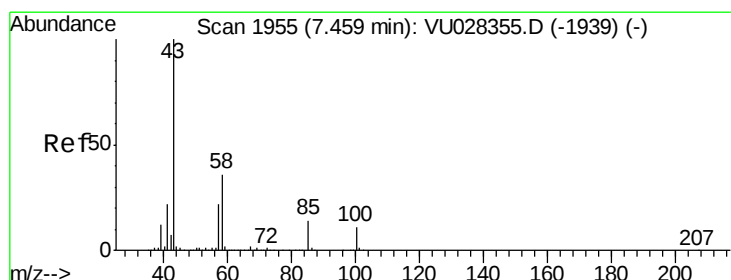
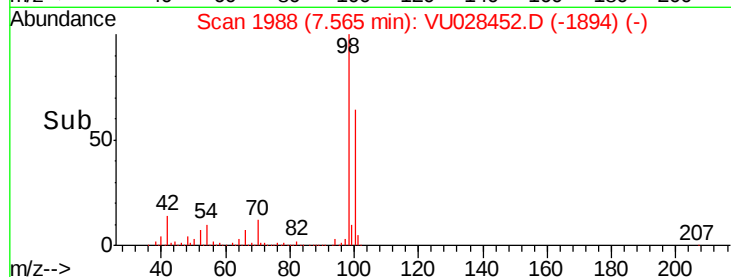
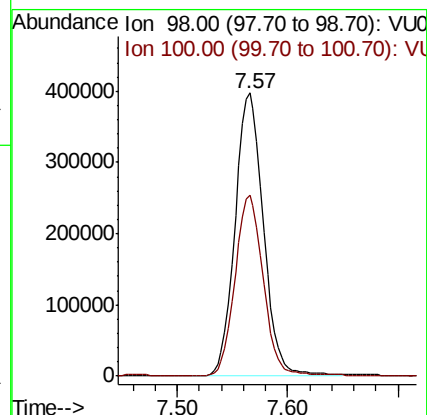
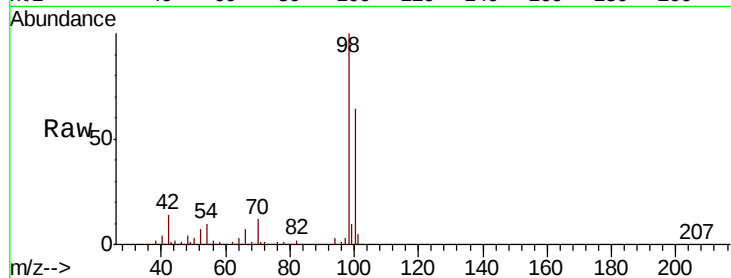
BUS-WASH

Tot Ion: 98 Resp: 710182

Ion Ratio Lower Upper

98 100

100 63.7 50.8 76.2



#51

4-Methyl-2-Pentanone

Concen: 5.236 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028452.D

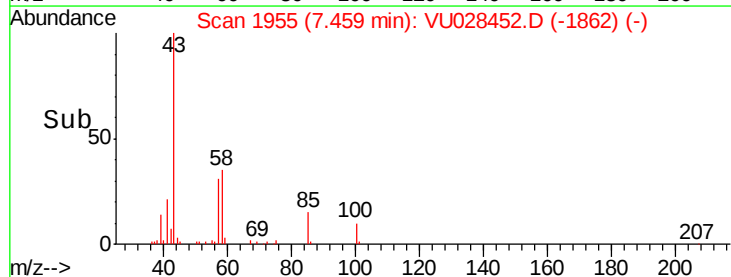
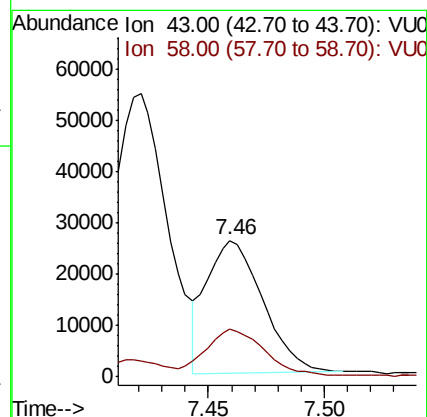
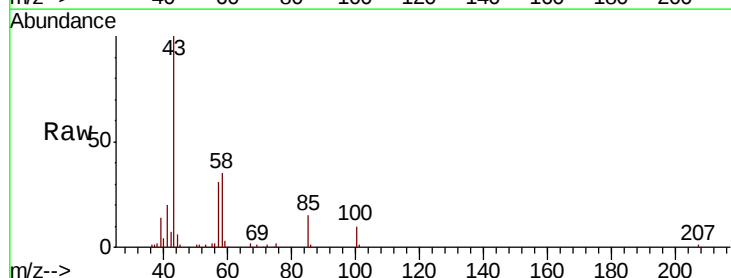
Acq: 03 Dec 2018 19:25

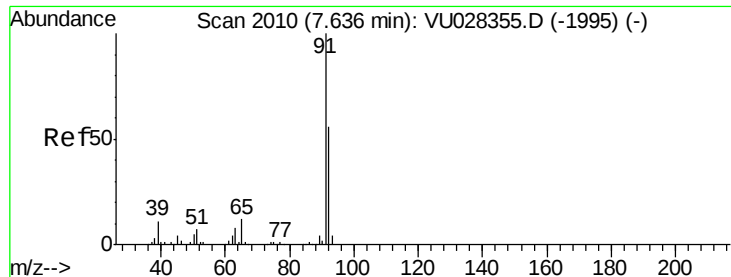
Tgt Ion: 43 Resp: 43282

Ion Ratio Lower Upper

43 100

58 39.6 28.8 43.2





#52

Toluene

Concen: 2.024 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

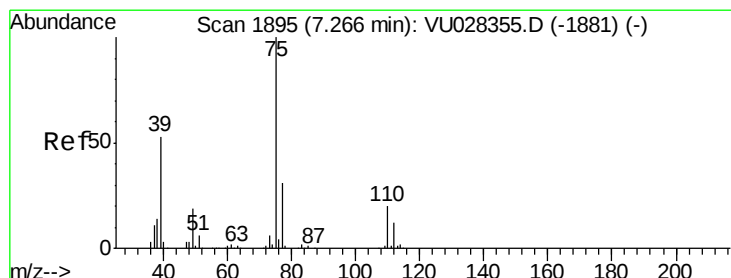
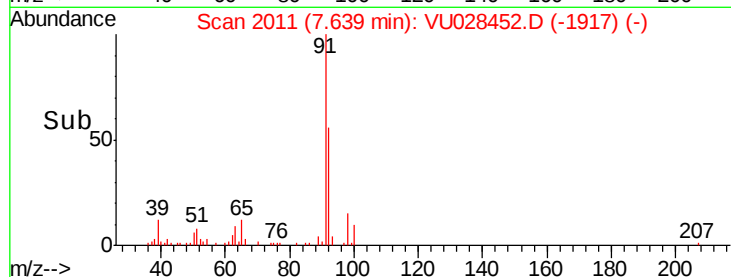
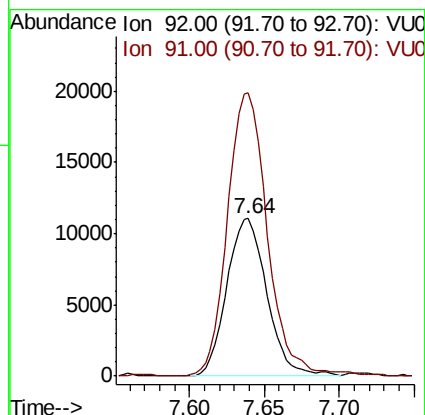
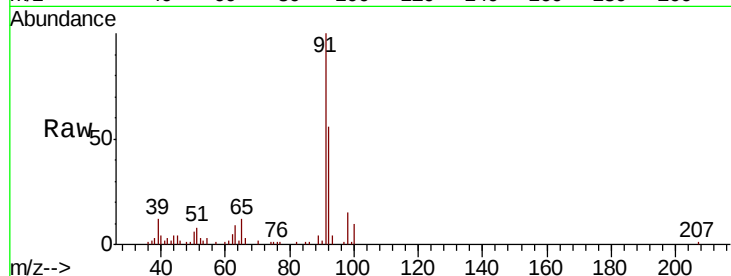
BUS-WASH

Tot Ion: 92 Resp: 20687

Ion Ratio Lower Upper

92 100

91 179.6 141.8 212.6



#54

cis-1,3-Dichloropropene

Concen: 5.542 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

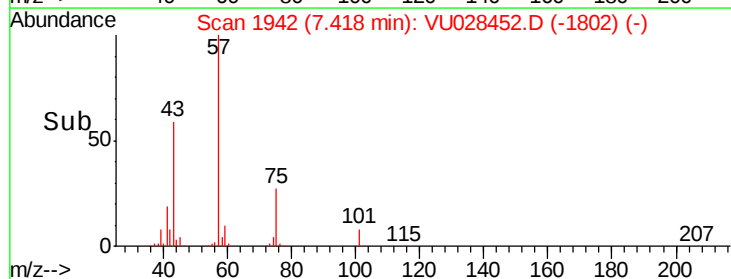
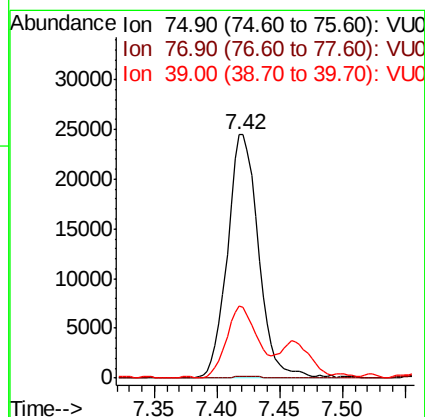
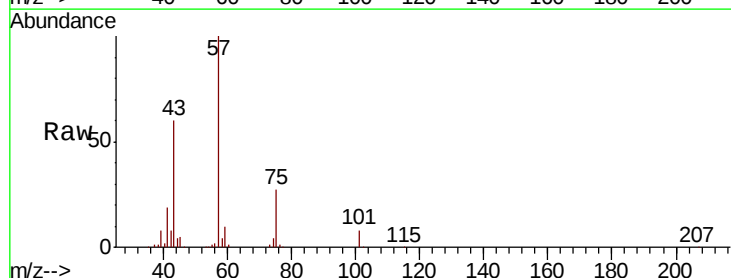
Tgt Ion: 75 Resp: 42159

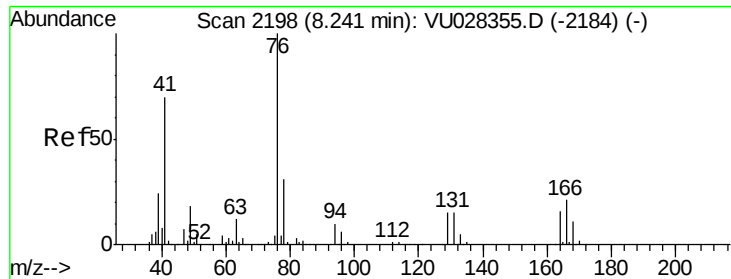
Ion Ratio Lower Upper

75 100

77 0.9 24.9 37.3#

39 28.9 42.6 64.0#

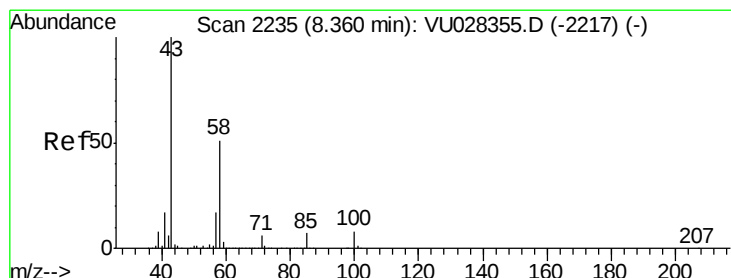
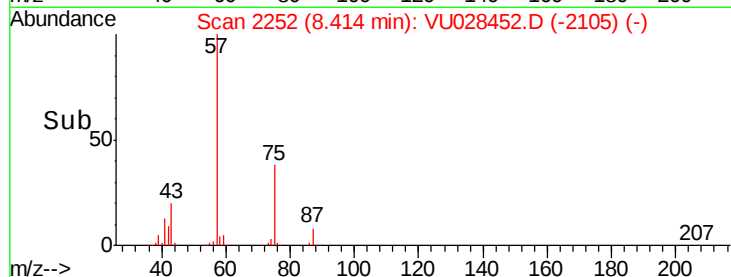
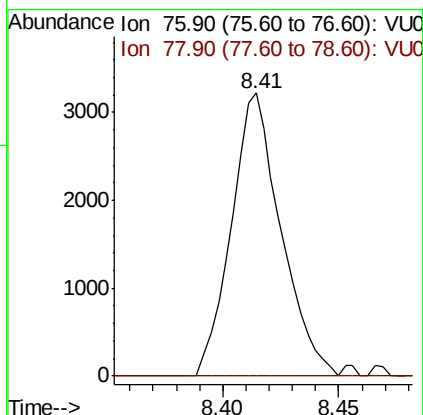
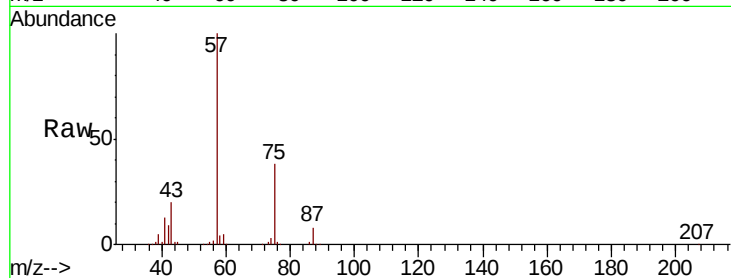




#57
 1,3-Dichloropropane
 Concen: 0.611 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028452.D
 Acq: 03 Dec 2018 19:25

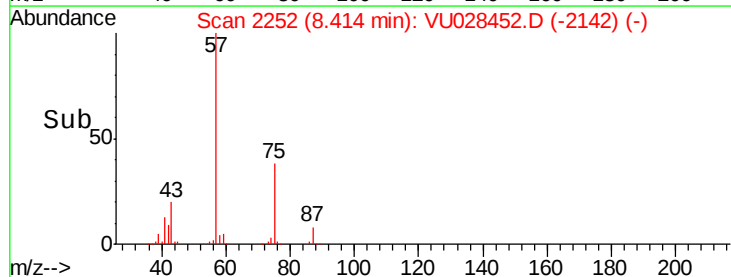
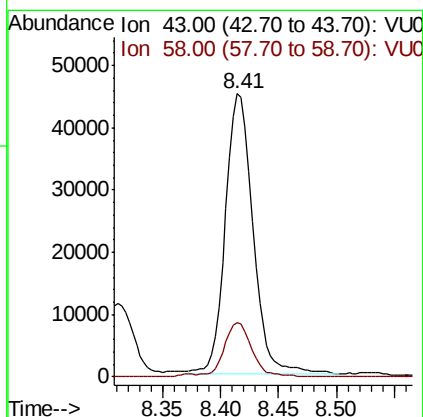
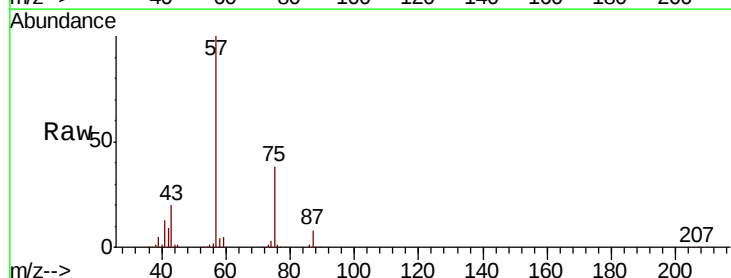
Instrument :
 MSVOA_U
 ClientSampleId :
 BUS-WASH

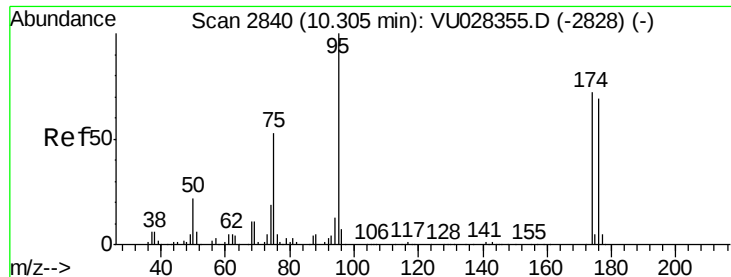
Tot Ion: 76 Resp: 4764
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 11.628 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.05 min
 Lab File: VU028452.D
 Acq: 03 Dec 2018 19:25

Tgt Ion: 43 Resp: 74451
 Ion Ratio Lower Upper
 43 100
 58 19.0 25.5 76.5#

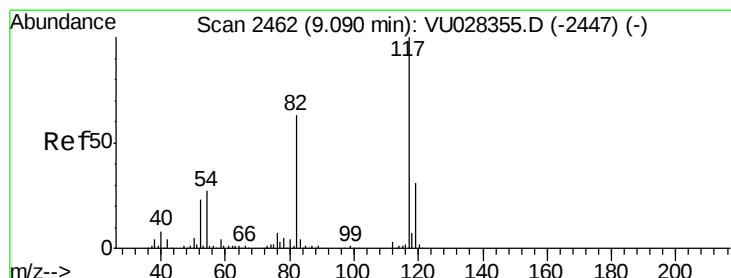
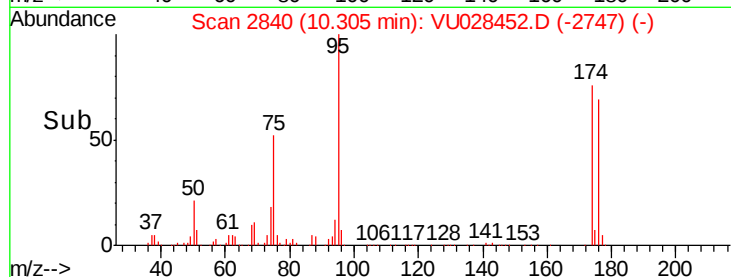
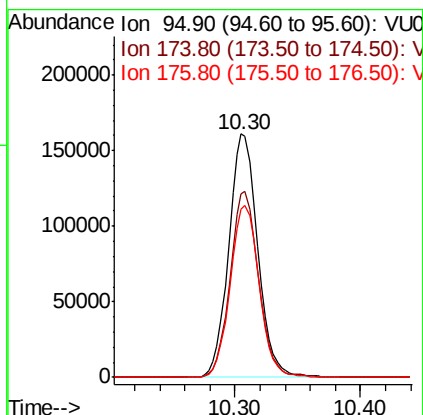
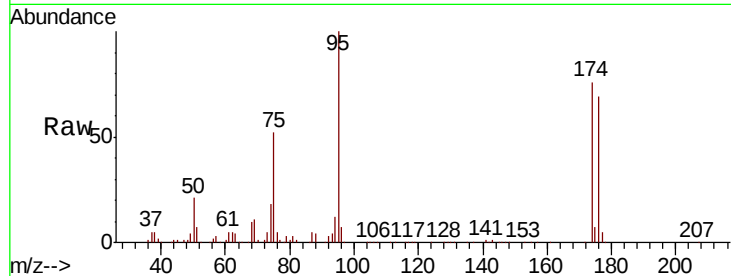




#62
4-Bromofluorobenzene
Concen: 49.211 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

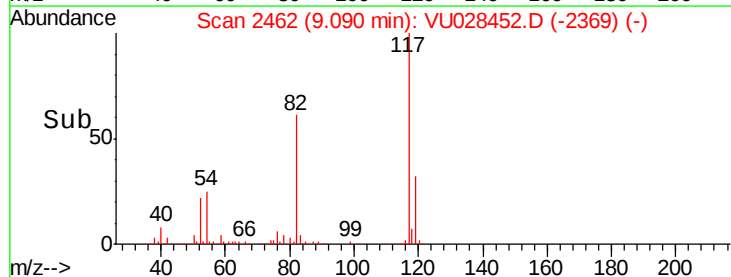
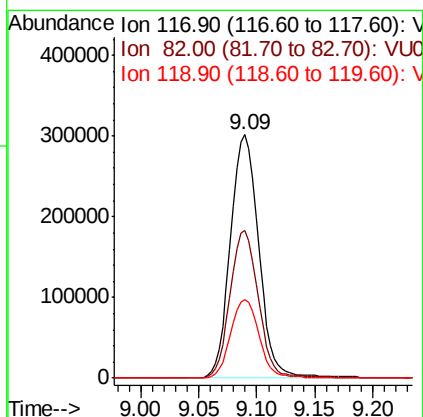
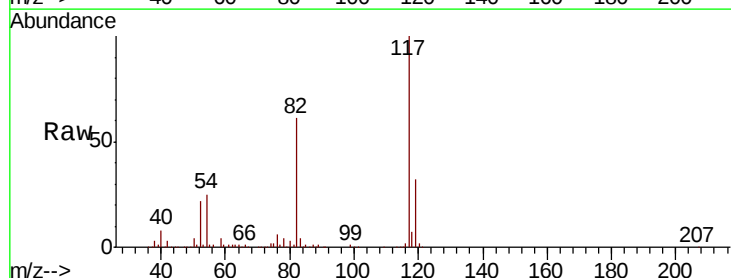
Instrument :
MSVOA_U
ClientSampleId :
BUS-WASH

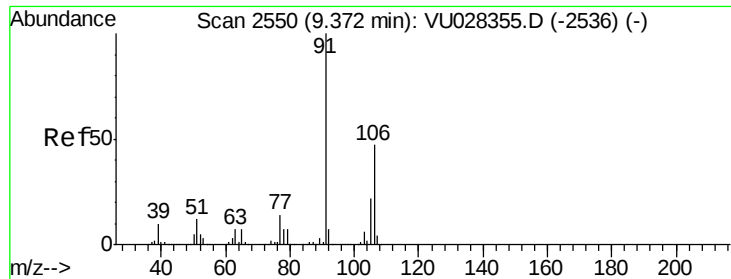
Tot Ion: 95 Resp: 258321
Ion Ratio Lower Upper
95 100
174 75.1 0.0 145.4
176 70.9 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028452.D
Acq: 03 Dec 2018 19:25

Tgt Ion: 117 Resp: 512075
Ion Ratio Lower Upper
117 100
82 60.7 50.3 75.5
119 32.5 24.8 37.2





#68

m/p-Xvlenes

Concen: 0.223 ug/l

RT: 9.37 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

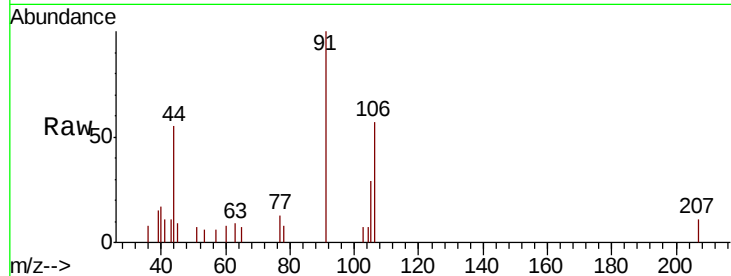
BUS-WASH

Tot Ion:106 Resp: 1604

Ion Ratio Lower Upper

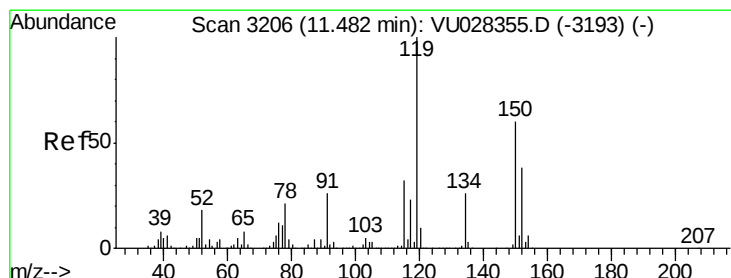
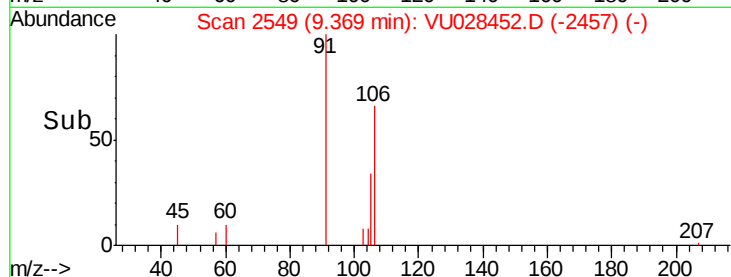
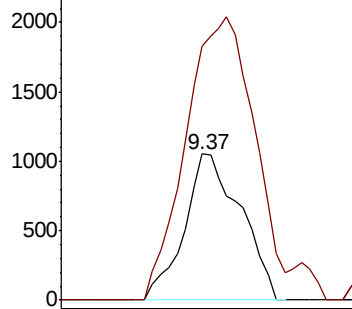
106 100

91 237.3 171.0 256.6



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: VU028452.D

Acq: 03 Dec 2018 19:25

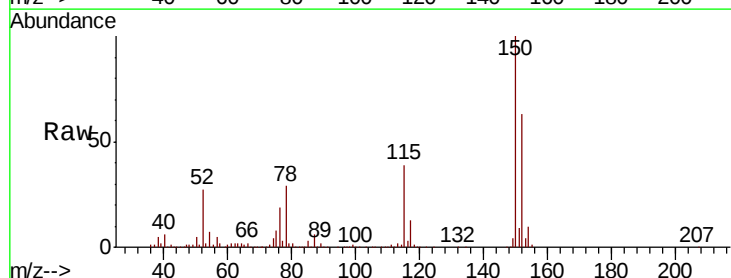
Tgt Ion:152 Resp: 238052

Ion Ratio Lower Upper

152 100

115 60.5 45.0 134.8

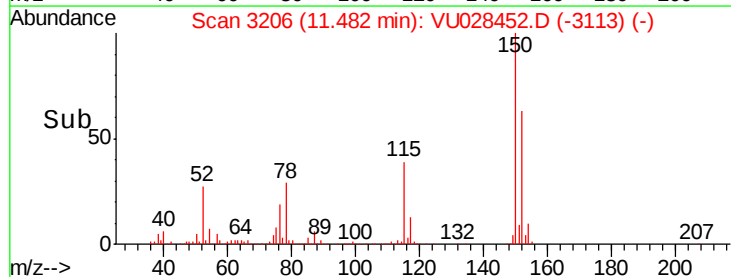
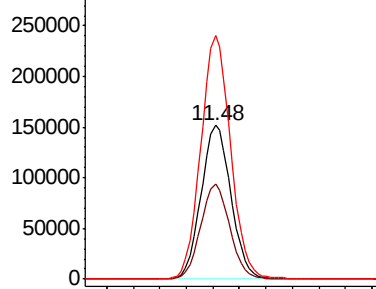
150 157.6 0.0 349.2

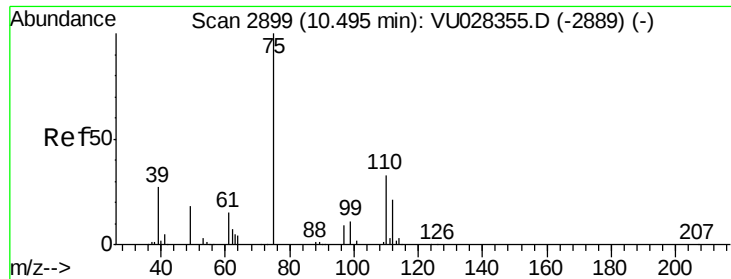


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.136 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

Instrument :

MSVOA_U

ClientSampleId :

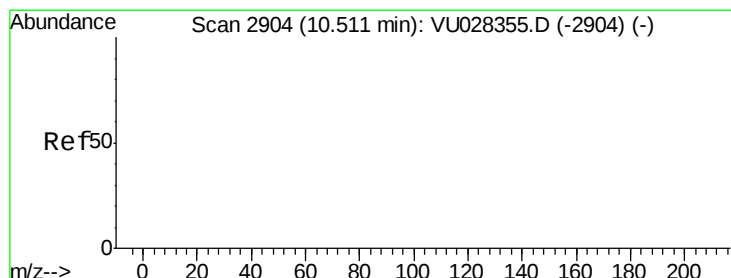
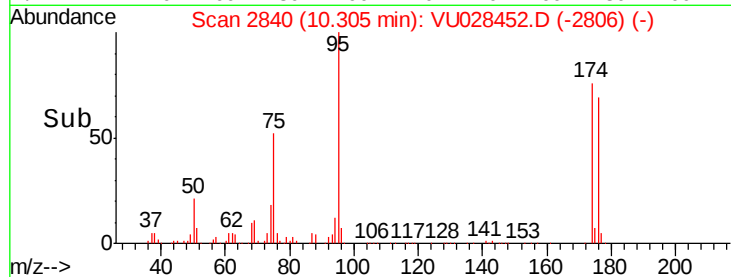
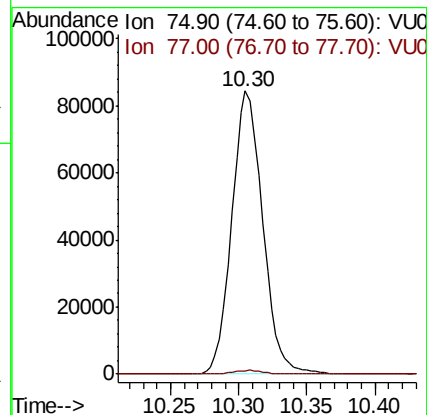
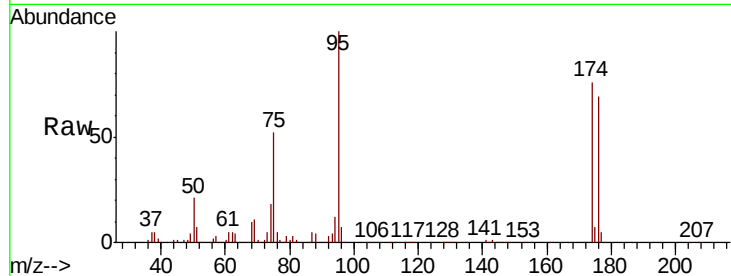
BUS-WASH

Tot Ion: 75 Resp: 132925

Ion Ratio Lower Upper

75 100

77 1.3 22.4 67.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.451 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU028452.D

Acq: 03 Dec 2018 19:25

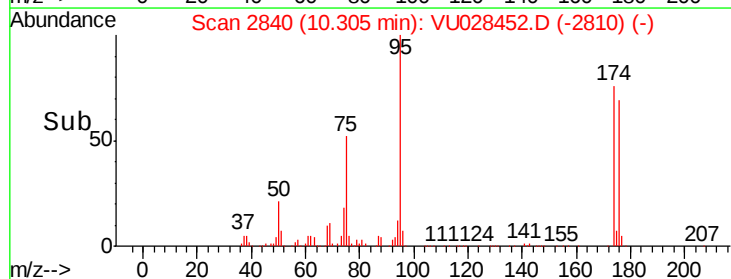
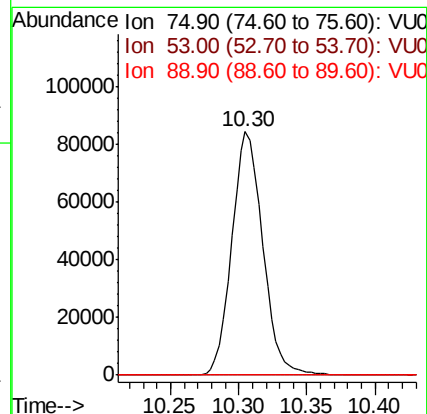
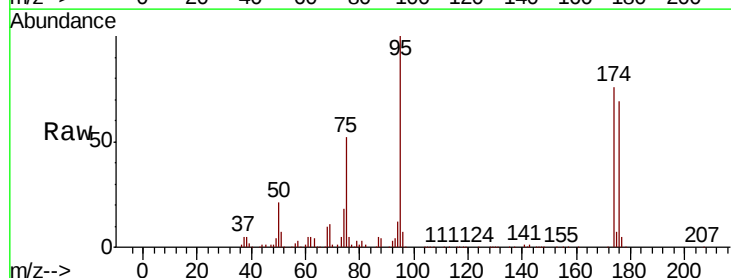
Tgt Ion: 75 Resp: 132925

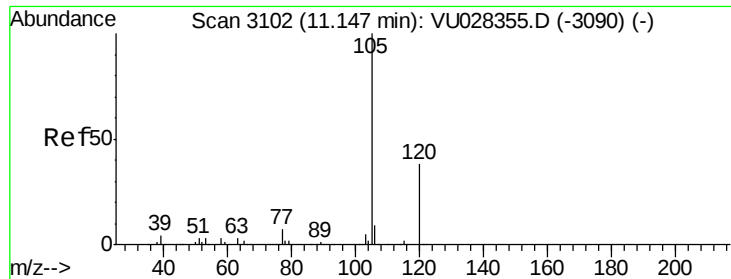
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

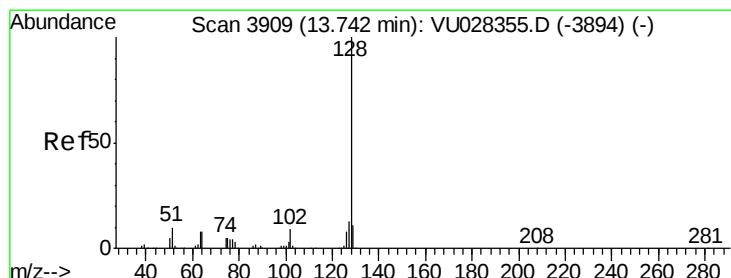
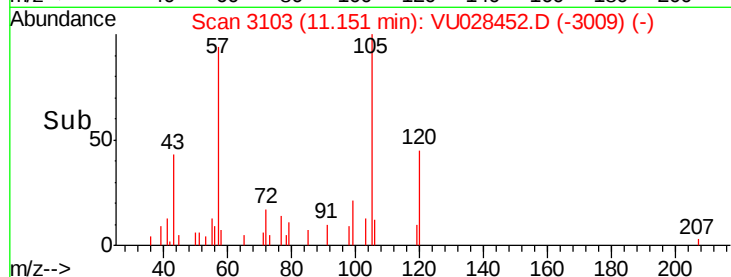
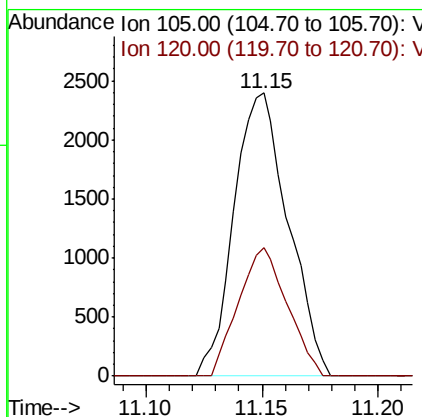
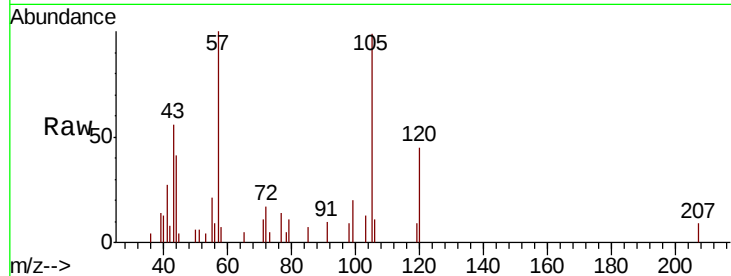




#84
 1,2,4-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU028452.D
 Acq: 03 Dec 2018 19:25

Instrument :
 MSVOA_U
 ClientSampled :
 BUS-WASH

Tot Ion:105 Resp: 3891
 Ion Ratio Lower Upper
 105 100
 120 40.8 21.4 64.3



#95
 Naphthalene
 Concen: 4.351 ug/l
 RT: 13.74 min Scan# 3909
 Delta R.T. 0.00 min
 Lab File: VU028452.D
 Acq: 03 Dec 2018 19:25

Tgt Ion:128 Resp: 32184
 Ion Ratio Lower Upper
 128 100
 127 10.8 10.6 15.8
 129 9.1 8.6 12.8

