

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061818\
 Data File : VU024705.D
 Acq On : 18 Jun 2018 20:39
 Operator : MD/SY
 Sample : J3477-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S36-0140

Quant Time: Jun 19 05:15:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	192771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	305735	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	287511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	154533	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	140371	44.60	ug/l	0.00
Spiked Amount			Recovery	=	89.20%	
35) Dibromofluoromethane	4.89	113	122492	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
50) Toluene-d8	7.57	98	443206	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	10.31	95	160924	43.79	ug/l	0.00
Spiked Amount			Recovery	=	87.58%	

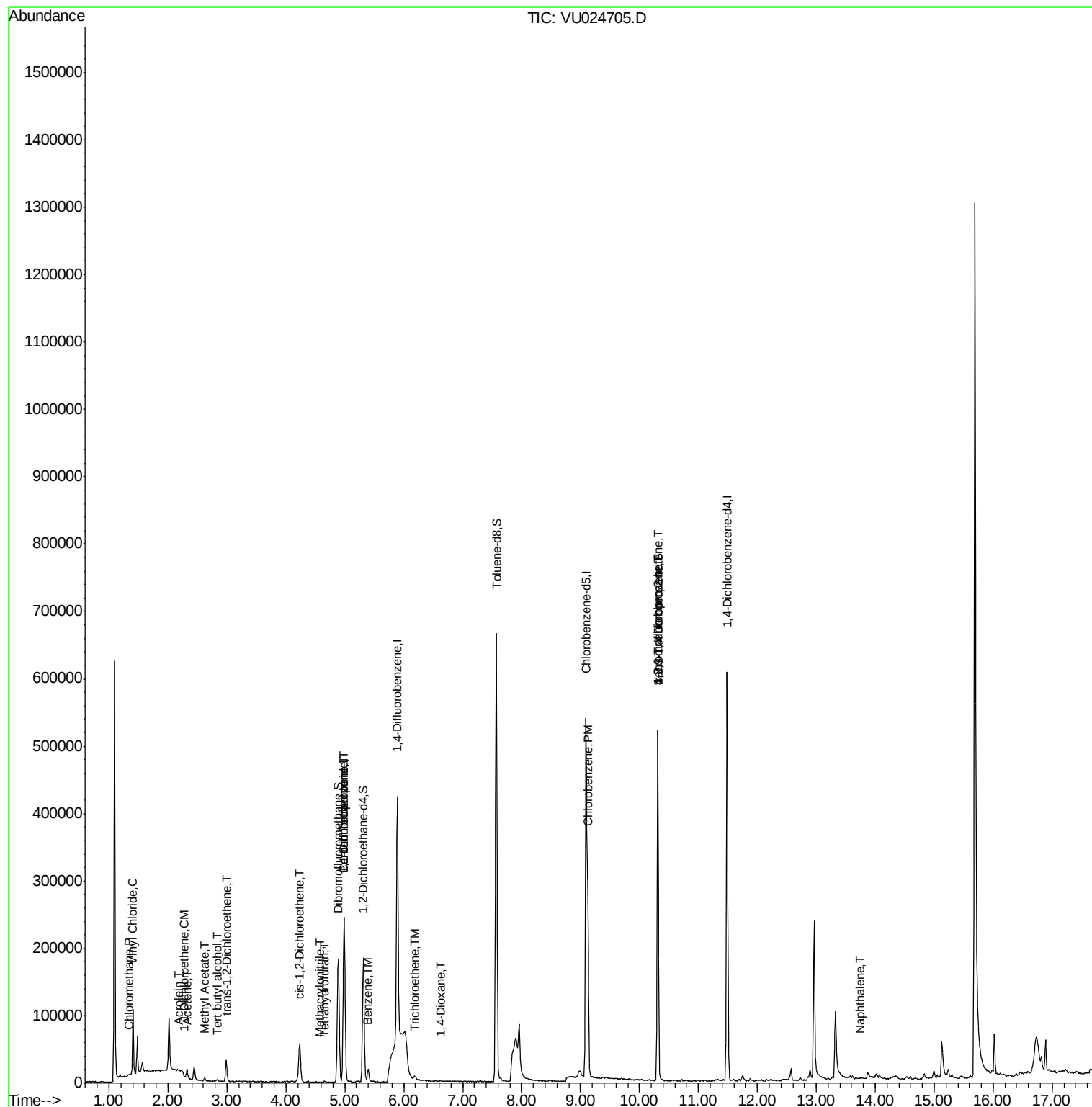
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1277	0.518	ug/l	94
4) Vinyl Chloride	1.41	62	60147	23.659	ug/l	99
8) Diethyl Ether	2.08	74	43	Below Cal	#	1
11) Tert butyl alcohol	2.83	59	1383	1.807	ug/l #	82
12) 1,1-Dichloroethene	2.29	96	657	0.299	ug/l #	65
13) Acrolein	2.19	56	161	0.401	ug/l #	3
16) Acetone	2.32	43	14103	8.341	ug/l	99
18) Methyl Acetate	2.62	43	4724	1.303	ug/l	100
21) trans-1,2-Dichloroethene	2.99	96	12040	4.980	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	31315	11.267	ug/l	86
29) Tetrahydrofuran	4.65	42	679	0.483	ug/l #	60
31) Cyclohexane	4.99	56	4545	Below Cal	#	5
36) 1,1-Dichloropropene	4.99	75	13459	3.746	ug/l #	51
38) Carbon Tetrachloride	4.99	117	17890	4.528	ug/l #	17
40) Benzene	5.39	78	17030	1.664	ug/l	97
41) Methacrylonitrile	4.57	41	473	0.224	ug/l #	26
44) Trichloroethene	6.19	130	1036	0.356	ug/l	77
49) 1,4-Dioxane	6.62	88	237	3.677	ug/l #	72
65) Chlorobenzene	9.12	112	149557	20.362	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	82887	24.362	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	82887	56.385	ug/l #	100
95) Naphthalene	13.75	128	996	0.766	ug/l #	80

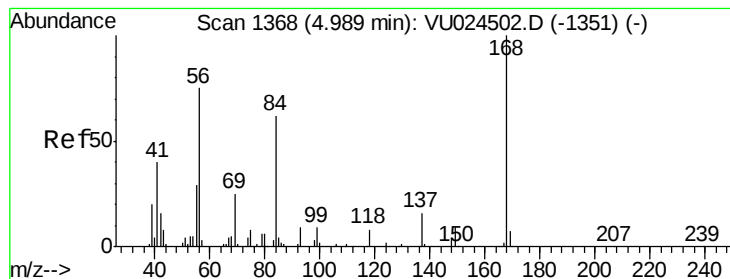
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

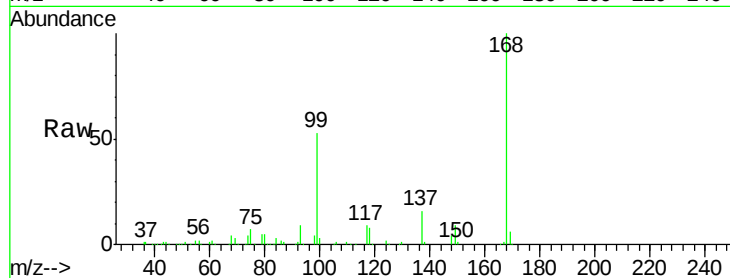
S36-0140

Tgt Ion:168 Resp: 192771

Ion Ratio Lower Upper

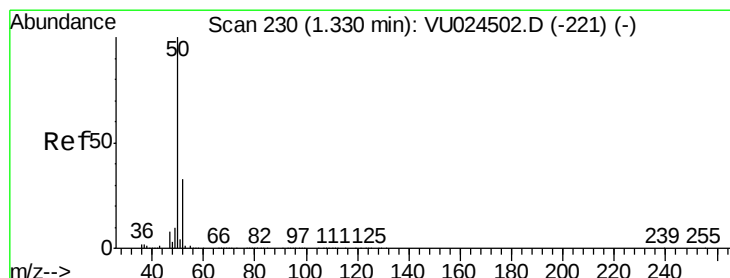
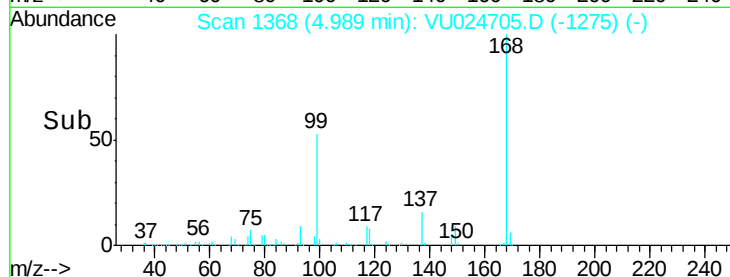
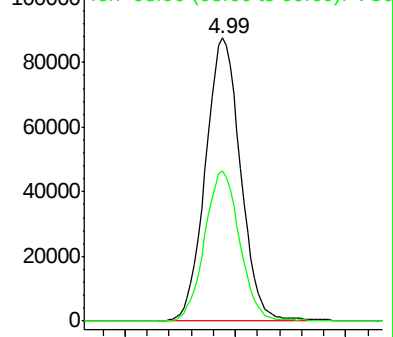
168 100

99 53.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#3

Chloromethane

Concen: 0.518 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU024705.D

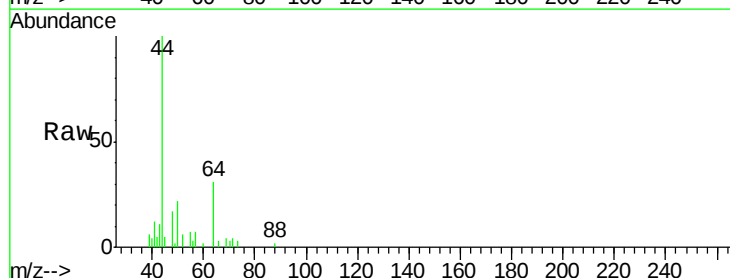
Acq: 18 Jun 2018 20:39

Tgt Ion: 50 Resp: 1277

Ion Ratio Lower Upper

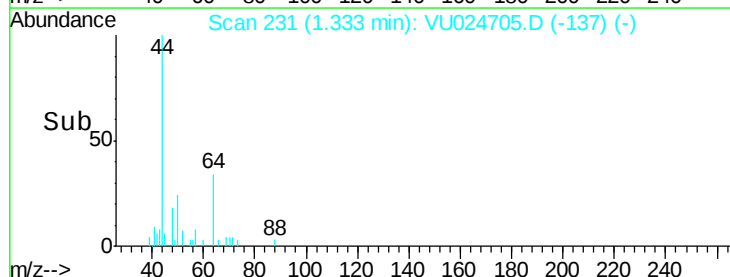
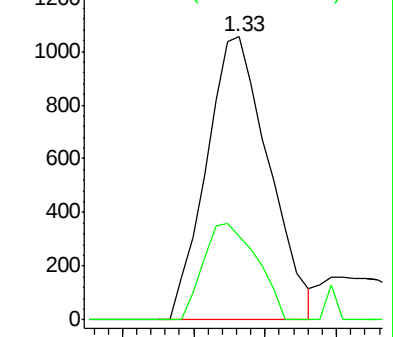
50 100

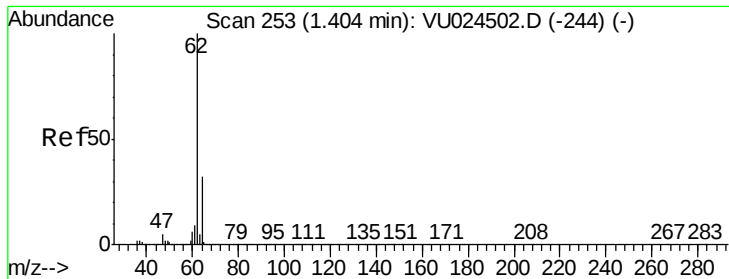
52 29.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0





#4

Vinyl Chloride

Concen: 23.659 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

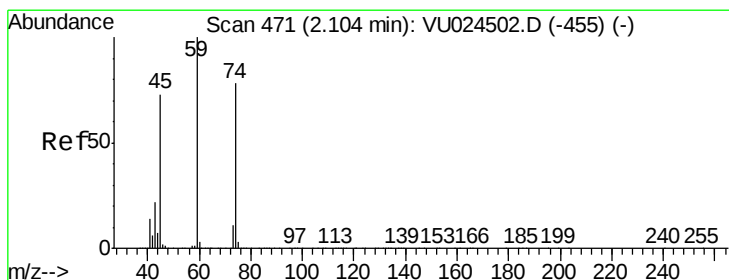
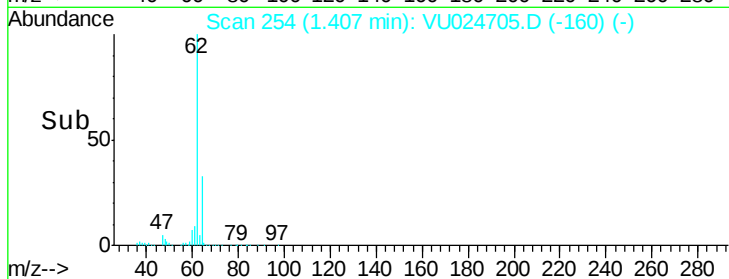
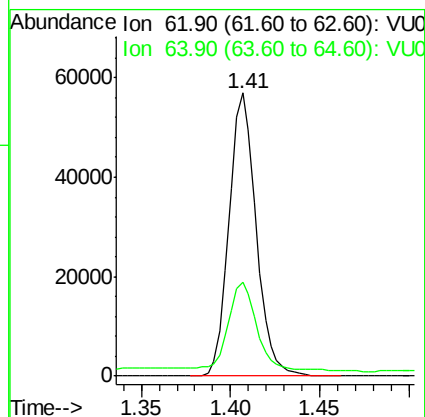
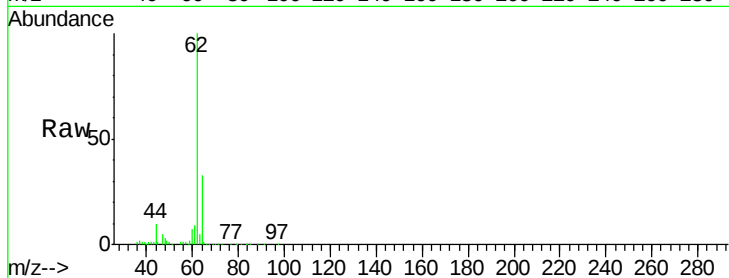
S36-0140

Tgt Ion: 62 Resp: 60147

Ion Ratio Lower Upper

62 100

64 31.5 24.8 37.2



#8

Diethyl Ether

Concen: Below Cal

RT: 2.08 min Scan# 463

Delta R.T. -0.03 min

Lab File: VU024705.D

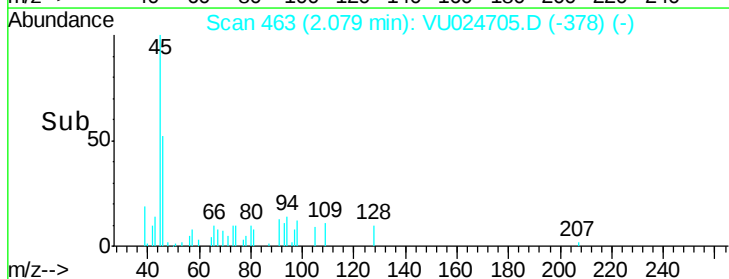
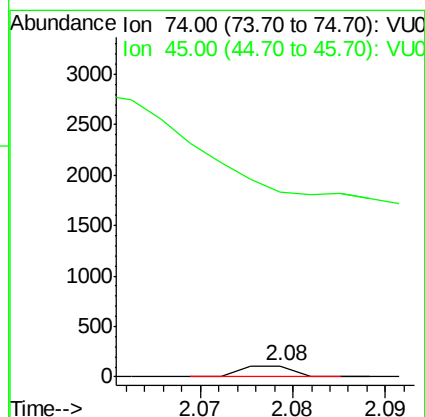
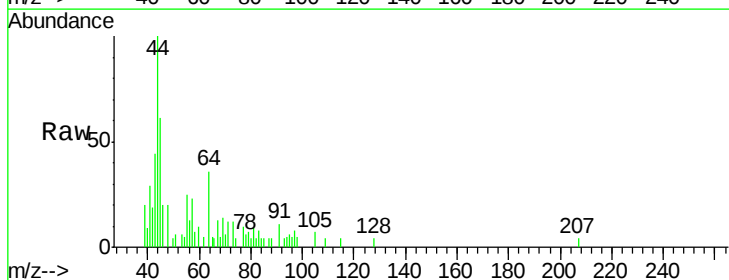
Acq: 18 Jun 2018 20:39

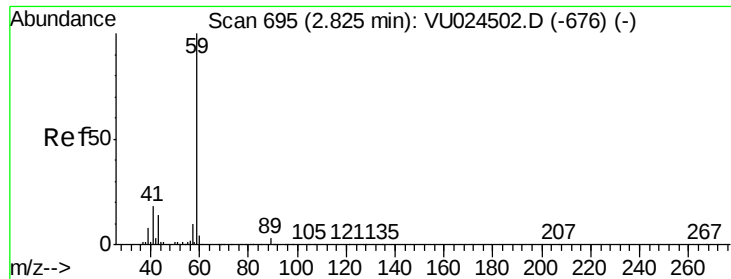
Tgt Ion: 74 Resp: 43

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#

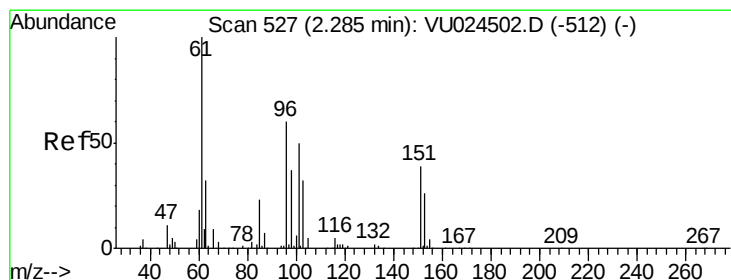
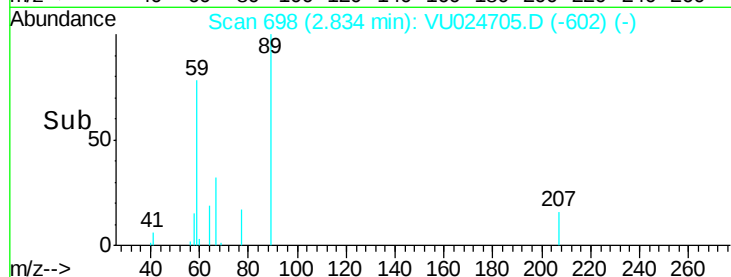
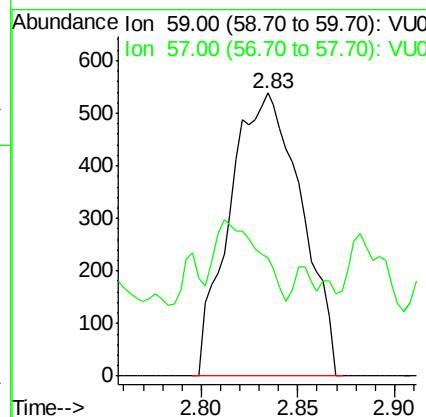
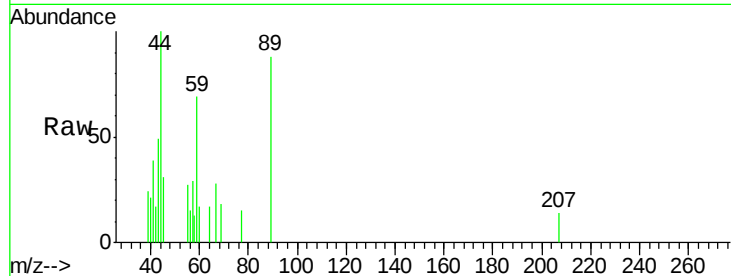




#11
Tert butyl alcohol
Concen: 1.807 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

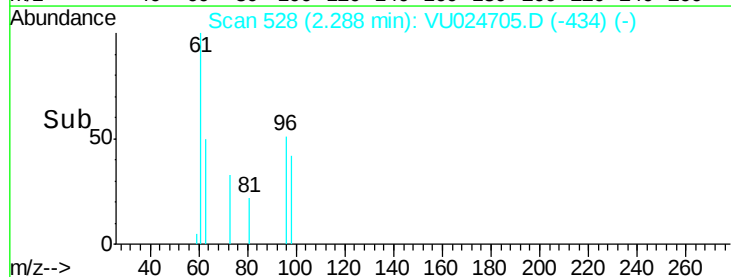
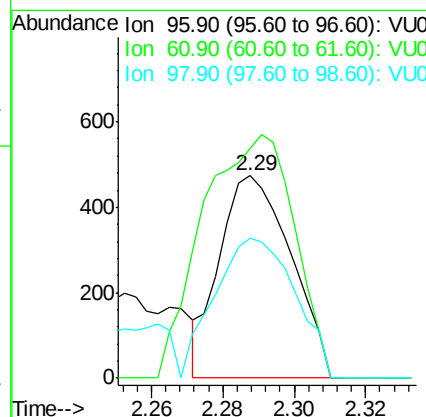
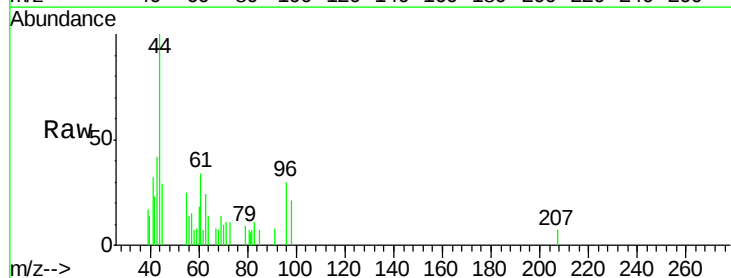
Instrument :
MSVOA_U
ClientSampleId :
S36-0140

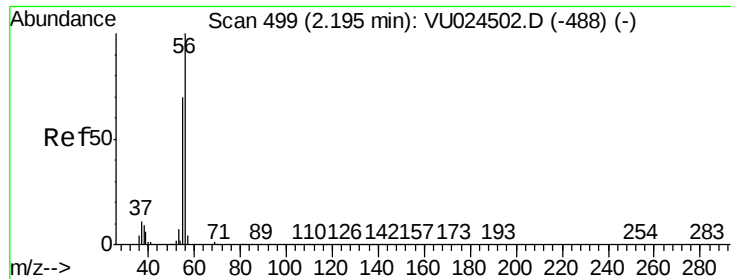
Tgt Ion: 59 Resp: 1383
Ion Ratio Lower Upper
59 100
57 3.7 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.299 ug/l
RT: 2.29 min Scan# 528
Delta R.T. 0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

Tgt Ion: 96 Resp: 657
Ion Ratio Lower Upper
96 100
61 113.7 141.7 212.5#
98 69.3 51.6 77.4

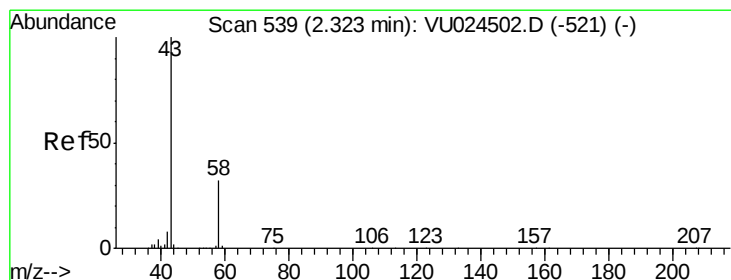
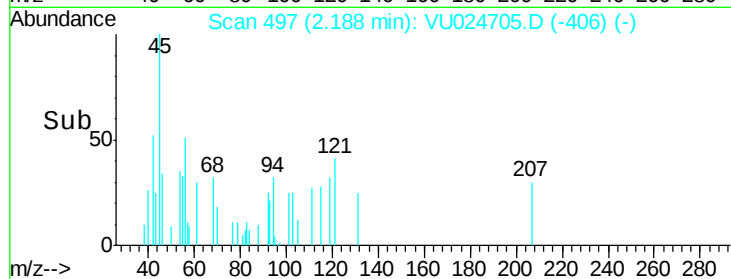
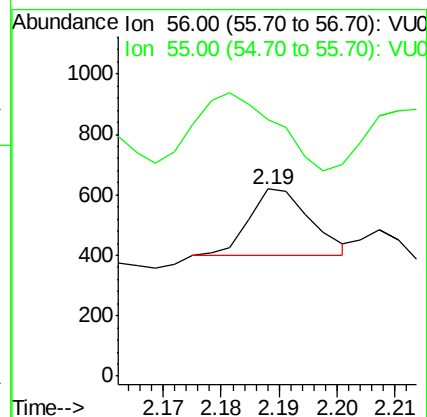
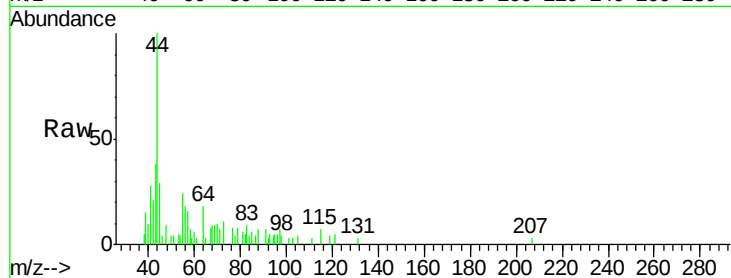




#13
Acrolein
Concen: 0.401 ug/l
RT: 2.19 min Scan# 497
Delta R.T. -0.01 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

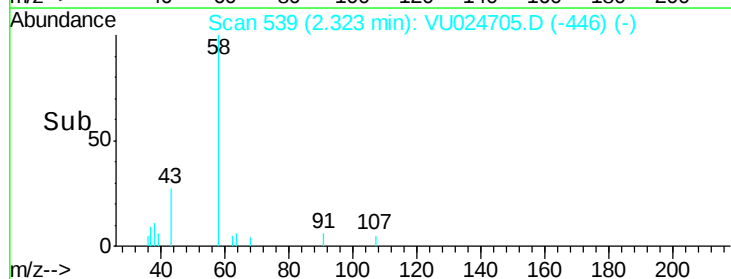
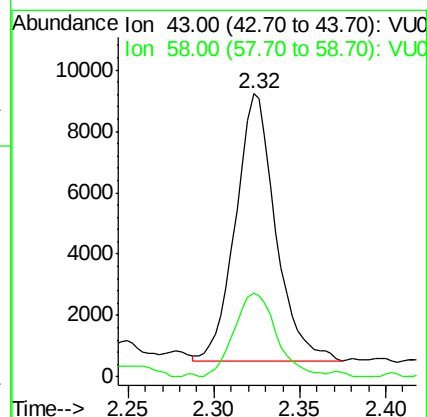
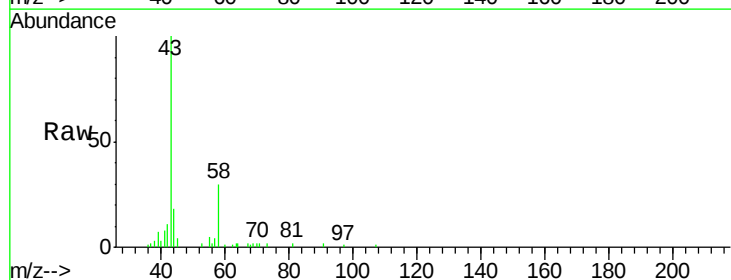
Instrument :
MSVOA_U
ClientSampled :
S36-0140

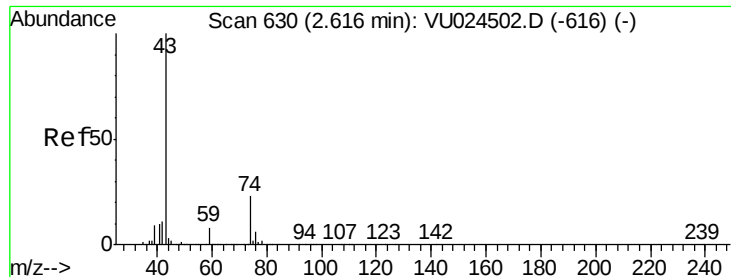
Tgt Ion: 56 Resp: 161
Ion Ratio Lower Upper
56 100
55 154.7 58.4 87.6#



#16
Acetone
Concen: 8.341 ug/l
RT: 2.32 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

Tgt Ion: 43 Resp: 14103
Ion Ratio Lower Upper
43 100
58 30.1 24.4 36.6

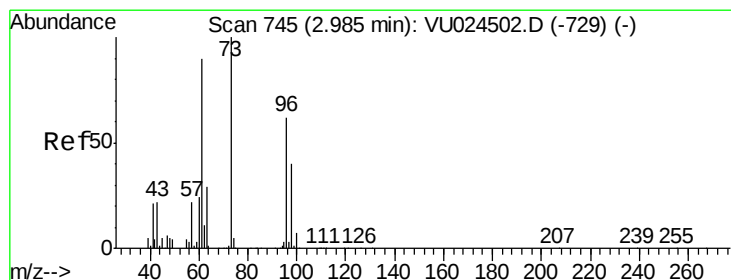
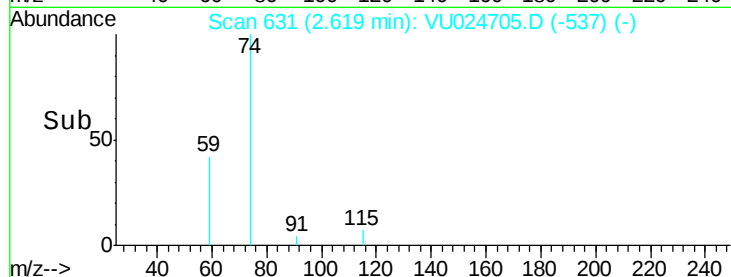
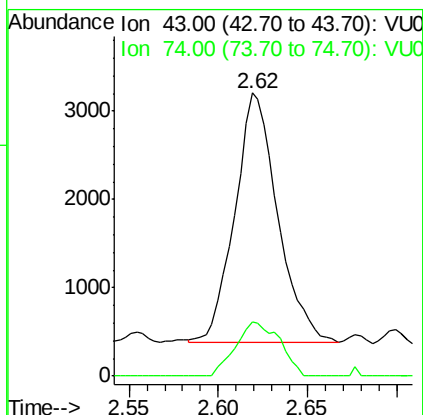
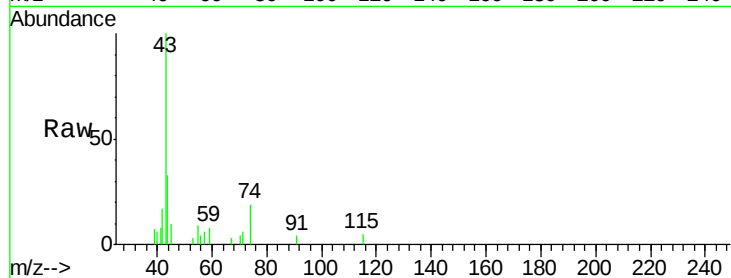




#18
Methyl Acetate
Concen: 1.303 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

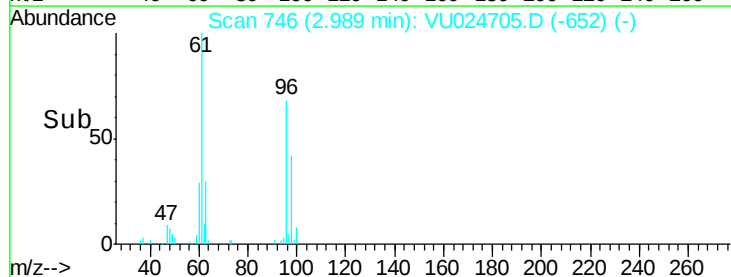
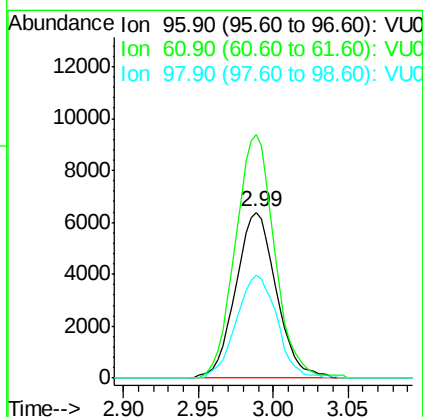
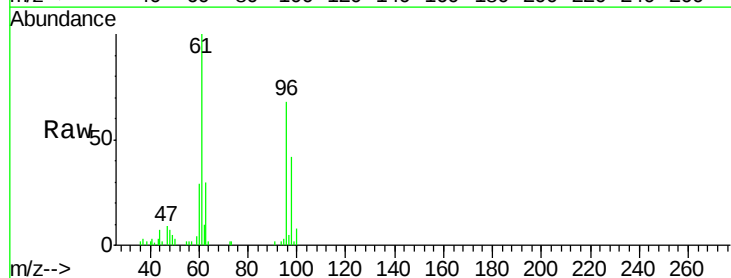
Instrument :
MSVOA_U
ClientSampleId :
S36-0140

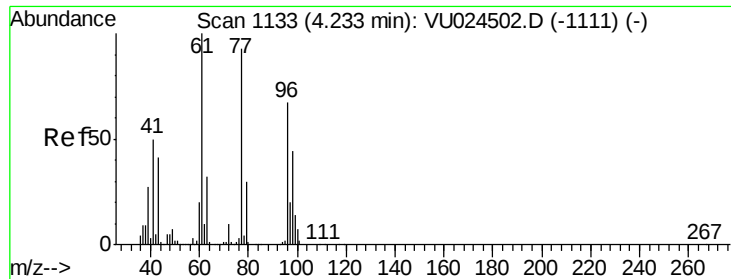
Tgt Ion: 43 Resp: 4724
Ion Ratio Lower Upper
43 100
74 22.4 18.0 27.0



#21
trans-1,2-Dichloroethene
Concen: 4.980 ug/l
RT: 2.99 min Scan# 746
Delta R.T. 0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

Tgt Ion: 96 Resp: 12040
Ion Ratio Lower Upper
96 100
61 146.9 119.4 179.0
98 61.9 51.1 76.7

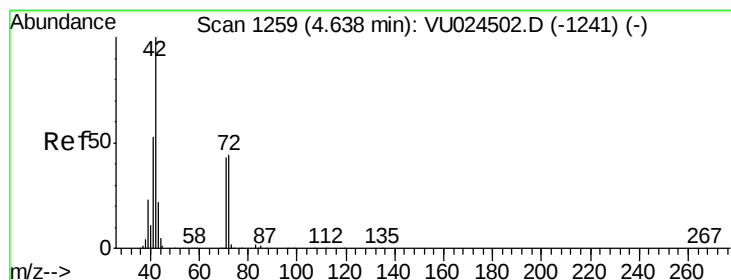
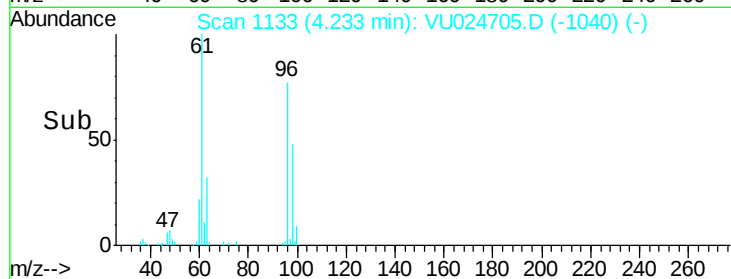
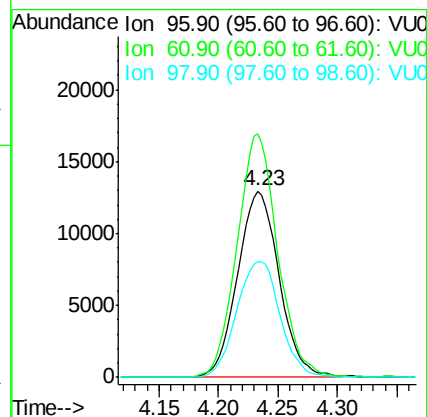
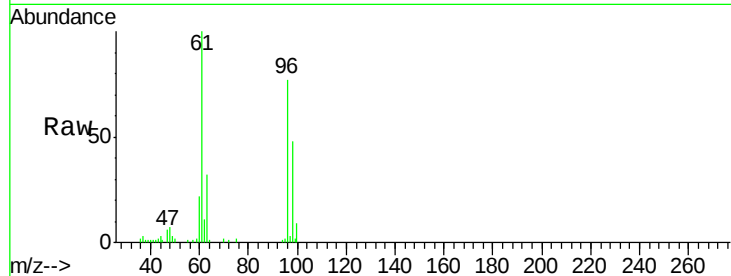




#27
 cis-1,2-Dichloroethene
 Concen: 11.267 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: VU024705.D
 Acq: 18 Jun 2018 20:39

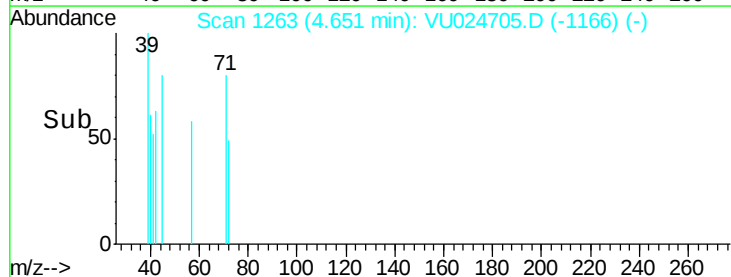
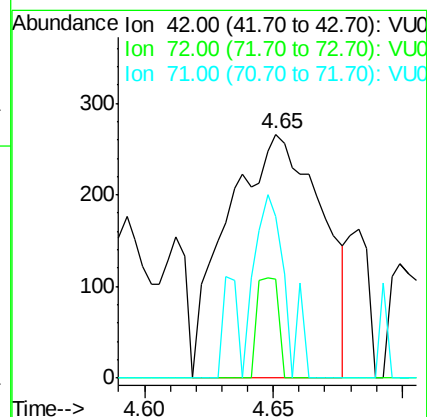
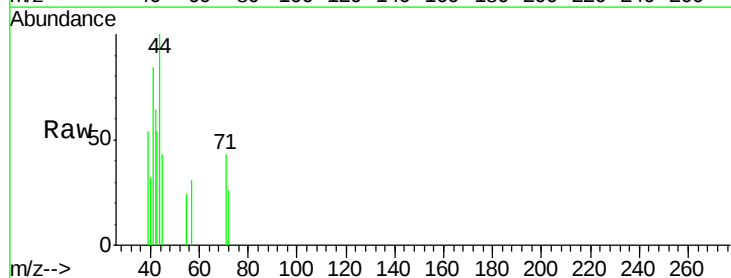
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 S36-0140

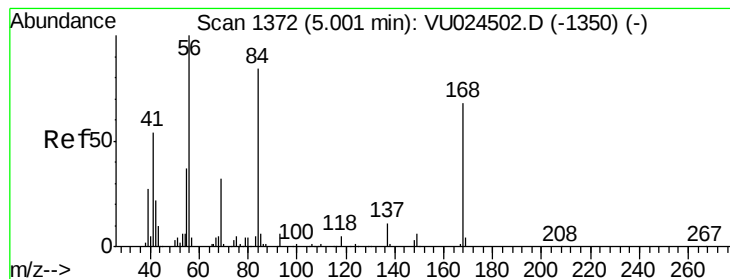
Tgt Ion: 96 Resp: 31315
 Ion Ratio Lower Upper
 96 100
 61 128.1 0.0 306.6
 98 65.0 0.0 128.8



#29
 Tetrahydrofuran
 Concen: 0.483 ug/l
 RT: 4.65 min Scan# 1263
 Delta R.T. 0.01 min
 Lab File: VU024705.D
 Acq: 18 Jun 2018 20:39

Tgt Ion: 42 Resp: 679
 Ion Ratio Lower Upper
 42 100
 72 9.1 34.5 51.7#
 71 24.6 32.2 48.4#





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

S36-0140

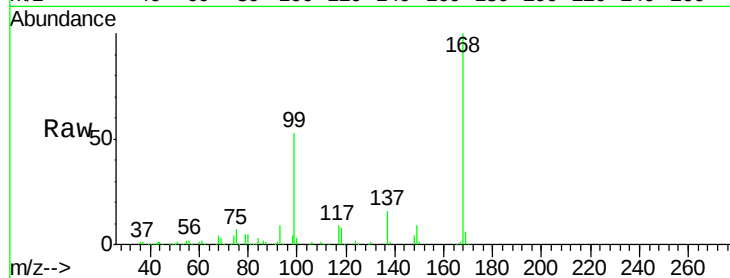
Tgt Ion: 56 Resp: 4545

Ion Ratio Lower Upper

56 100

69 145.7 24.8 37.2#

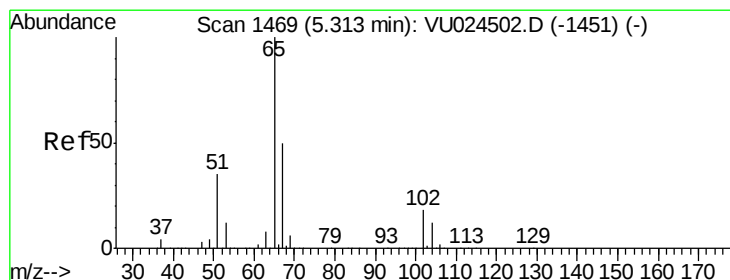
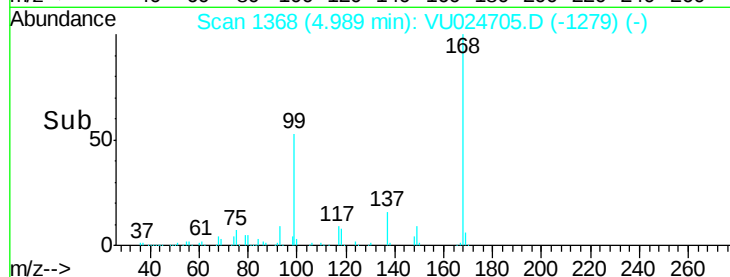
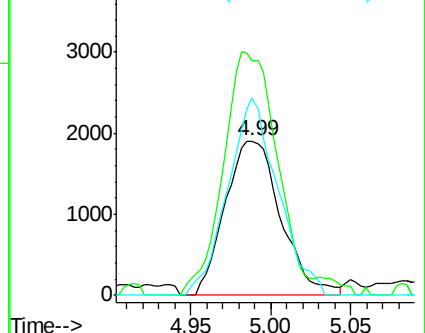
84 127.8 65.2 97.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 44.604 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024705.D

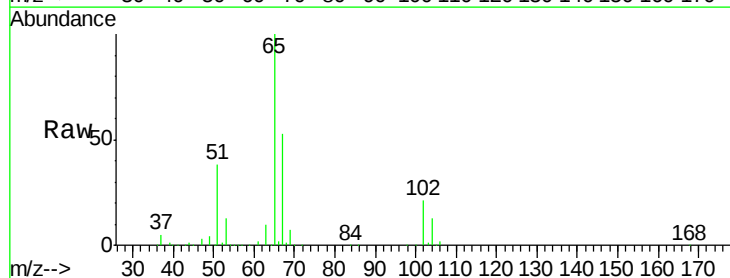
Acq: 18 Jun 2018 20:39

Tgt Ion: 65 Resp: 140371

Ion Ratio Lower Upper

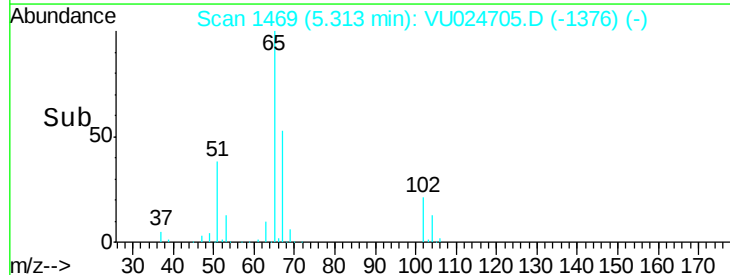
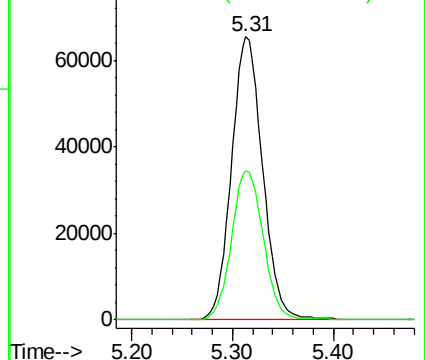
65 100

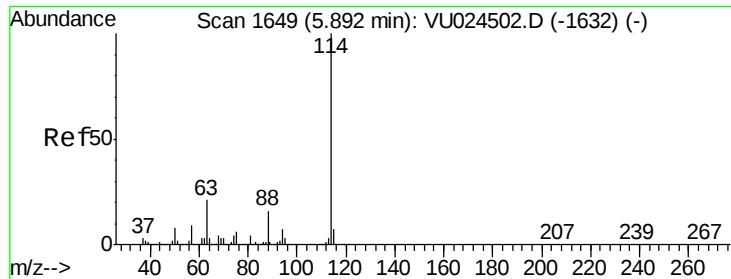
67 53.5 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

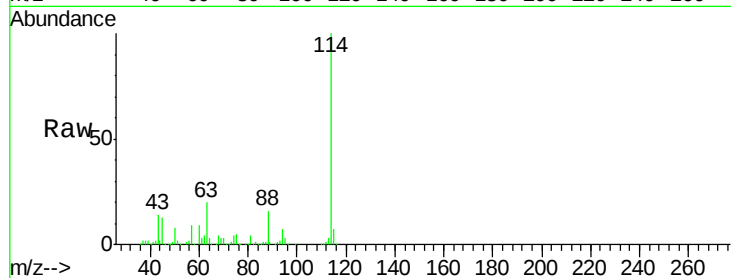




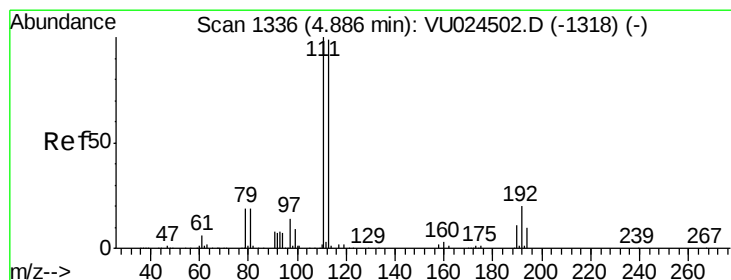
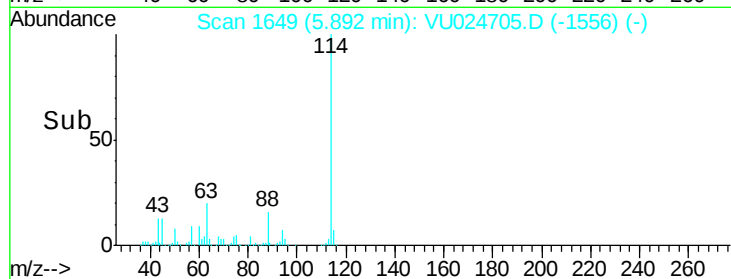
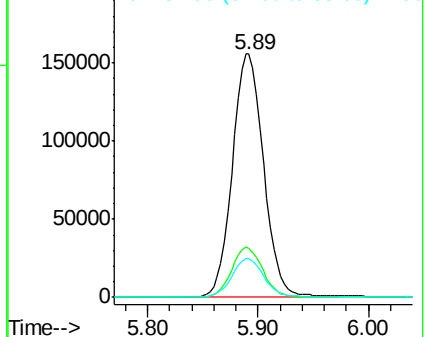
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

Instrument :
MSVOA_U
ClientSampleId :
S36-0140

Tgt Ion:	114	Resp:	305735
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	45.4
88	15.8	0.0	31.0

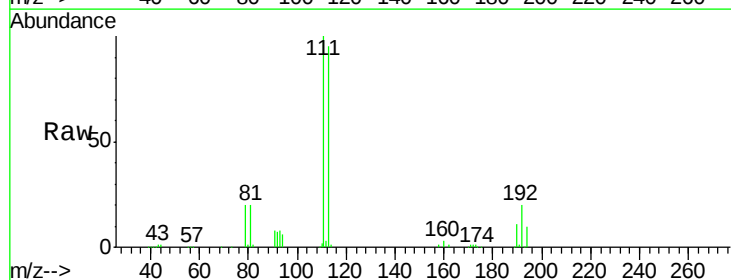


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

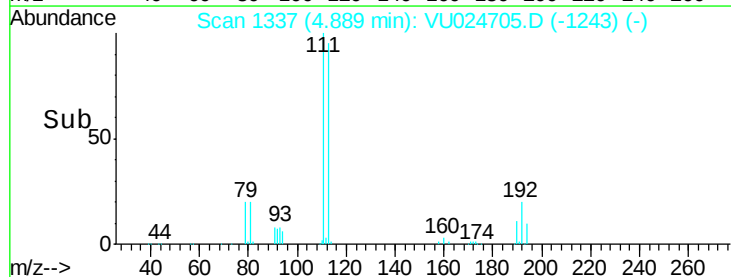
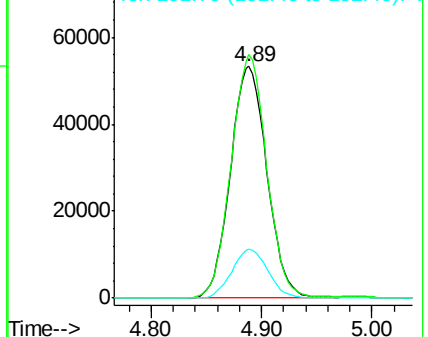


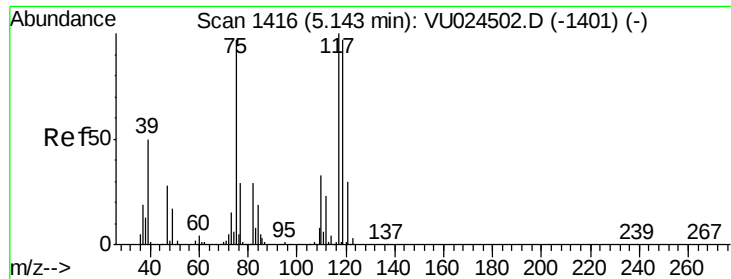
#35
Dibromofluoromethane
Concen: 48.275 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

Tgt Ion:	113	Resp:	122492
Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.4
192	20.8	16.2	24.4



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.746 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

S36-0140

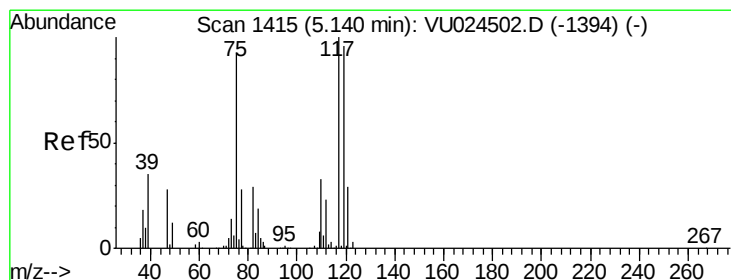
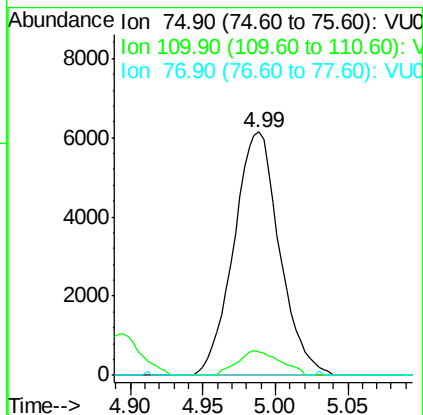
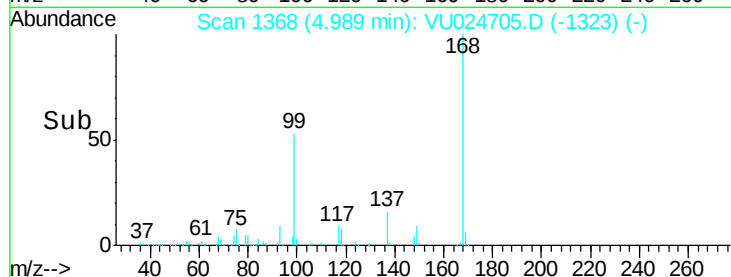
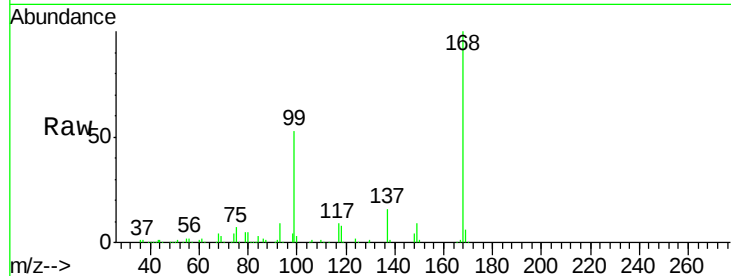
Tgt Ion: 75 Resp: 13459

Ion Ratio Lower Upper

75 100

110 9.5 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 4.528 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

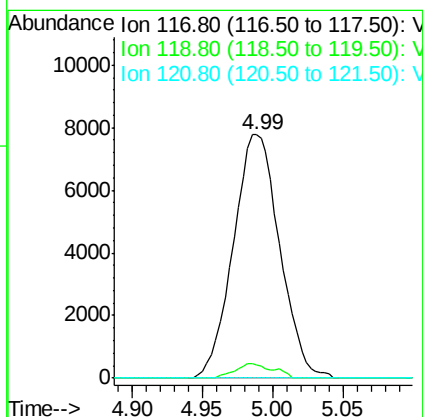
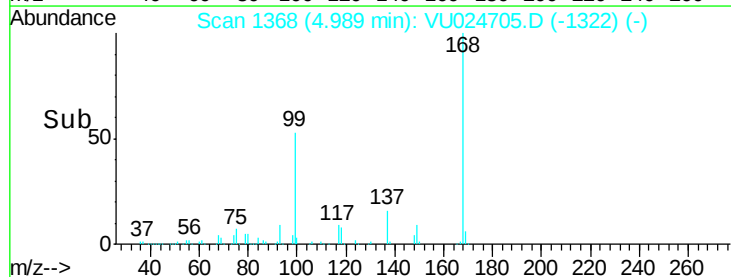
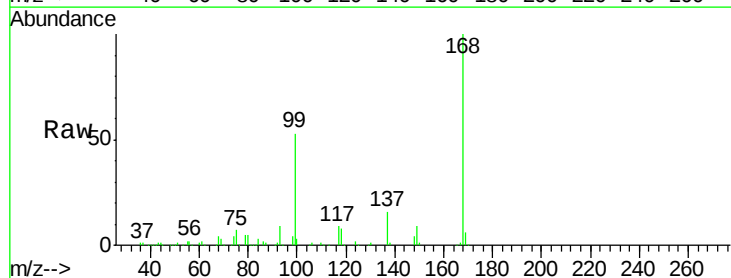
Tgt Ion: 117 Resp: 17890

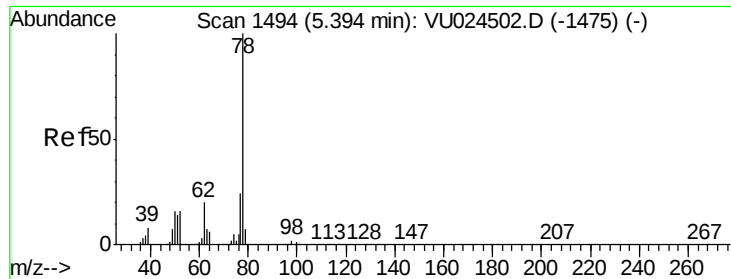
Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

121 0.0 23.7 35.5#





#40

Benzene

Concen: 1.664 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

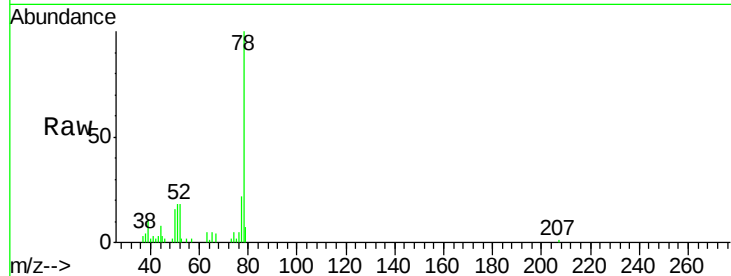
S36-0140

Tgt Ion: 78 Resp: 17030

Ion Ratio Lower Upper

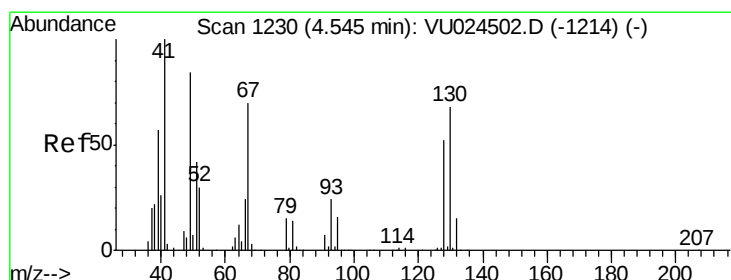
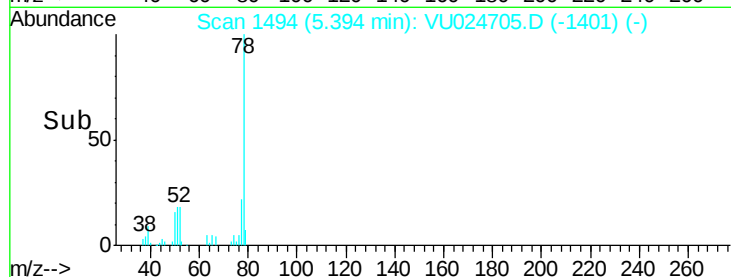
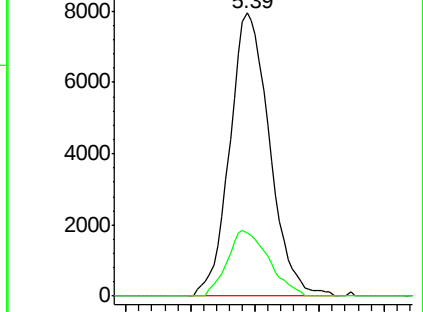
78 100

77 22.4 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU024705.D (-1401) (-)

Ion 77.00 (76.70 to 77.70): VU024705.D (-1401) (-)



#41

Methacrylonitrile

Concen: 0.224 ug/l

RT: 4.57 min Scan# 1239

Delta R.T. 0.03 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Tgt Ion: 41 Resp: 473

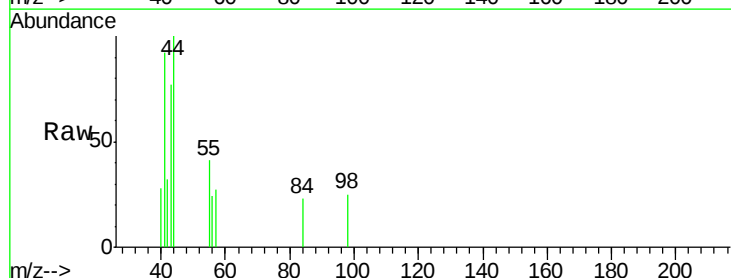
Ion Ratio Lower Upper

41 100

39 4.0 43.8 65.6#

67 0.0 56.3 84.5#

52 0.0 23.2 34.8#

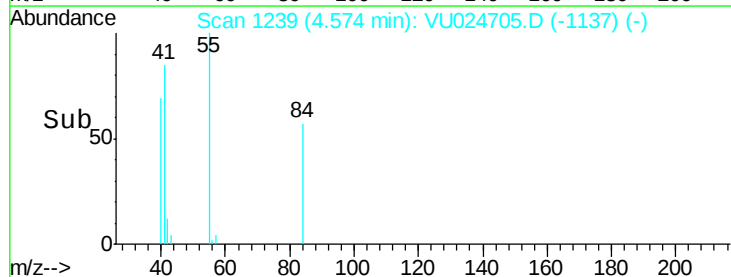
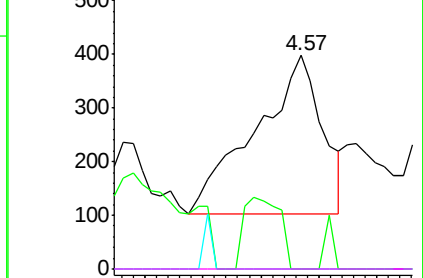


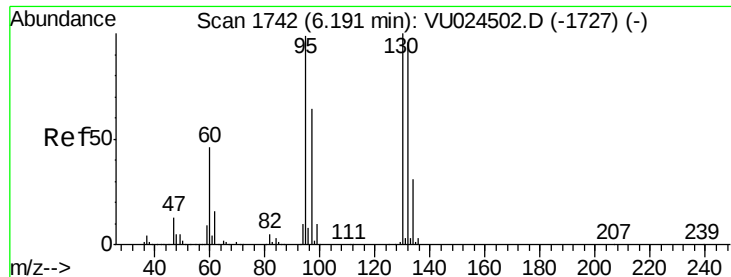
Abundance Ion 41.00 (40.70 to 41.70): VU024705.D (-1137) (-)

Ion 39.00 (38.70 to 39.70): VU024705.D (-1137) (-)

Ion 67.00 (66.70 to 67.70): VU024705.D (-1137) (-)

Ion 52.00 (51.70 to 52.70): VU024705.D (-1137) (-)





#44

Trichloroethene

Concen: 0.356 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

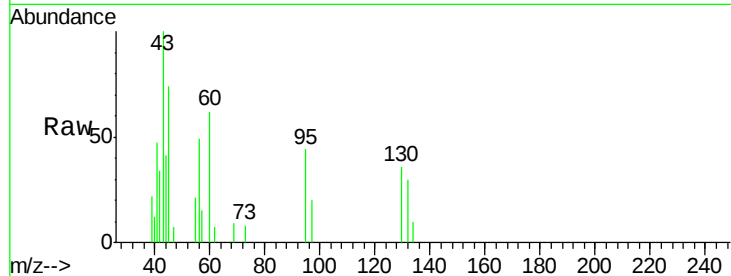
S36-0140

Tgt Ion:130 Resp: 1036

Ion Ratio Lower Upper

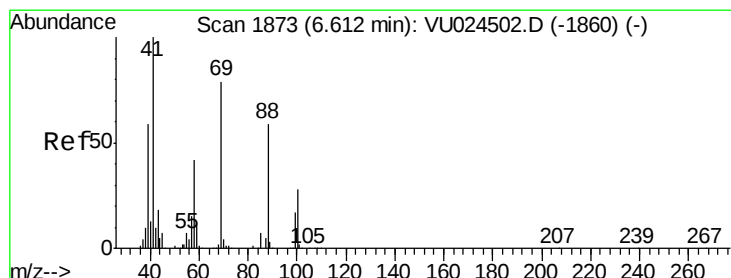
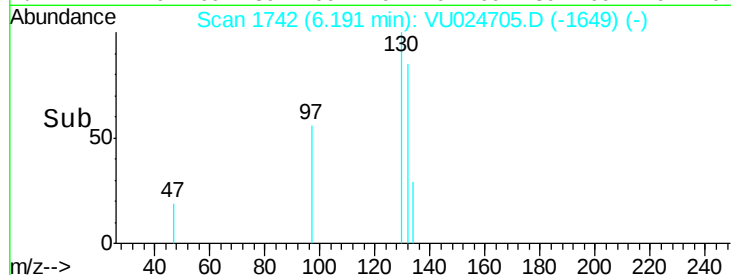
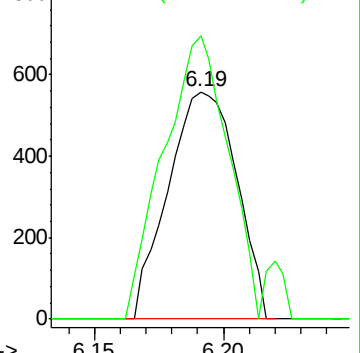
130 100

95 124.6 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



#49

1,4-Dioxane

Concen: 3.677 ug/l

RT: 6.62 min Scan# 1874

Delta R.T. 0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

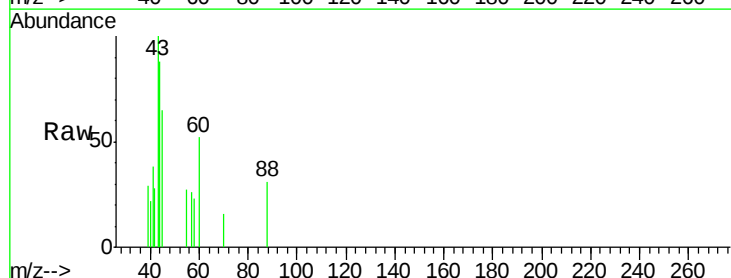
Tgt Ion: 88 Resp: 237

Ion Ratio Lower Upper

88 100

43 75.5 28.6 42.8#

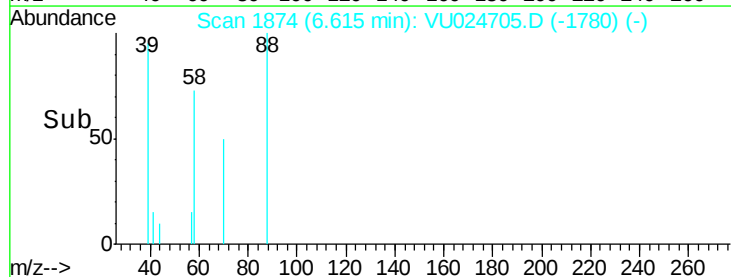
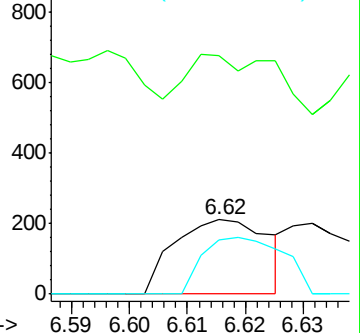
58 65.4 58.2 87.4

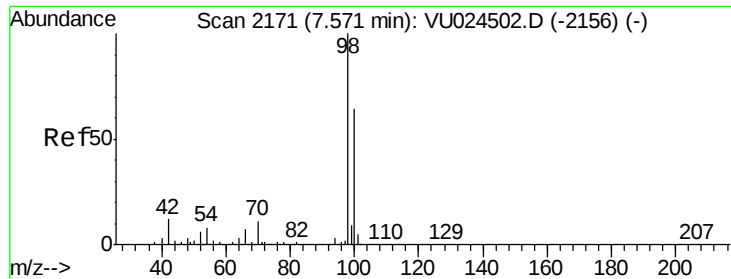


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#50

Toluene-d8

Concen: 47.887 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

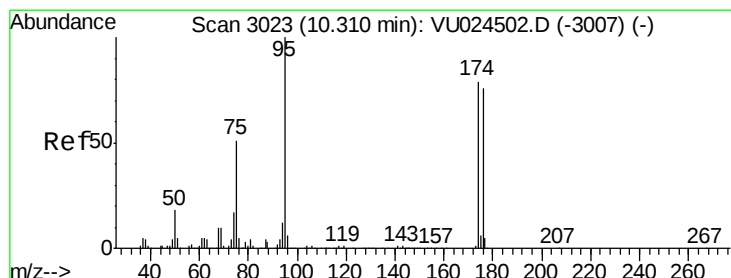
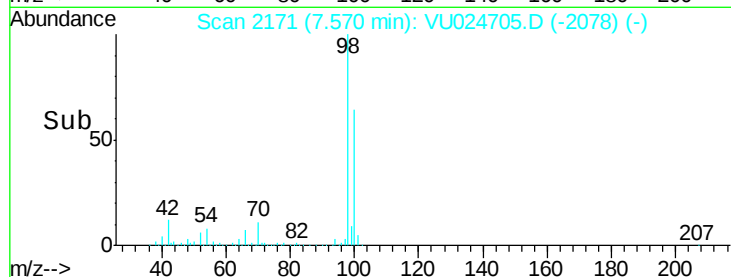
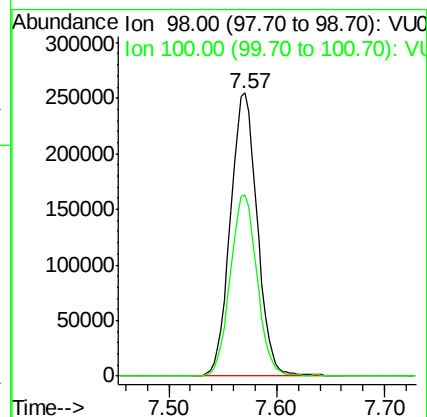
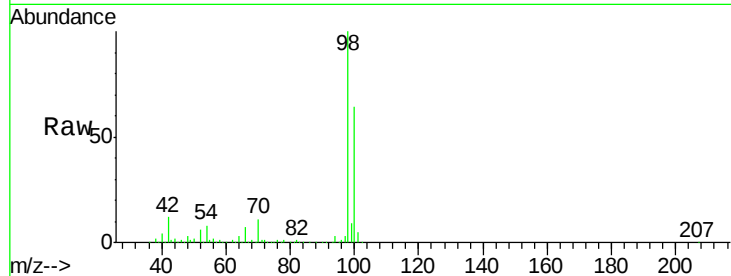
S36-0140

Tgt Ion: 98 Resp: 443206

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 43.792 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

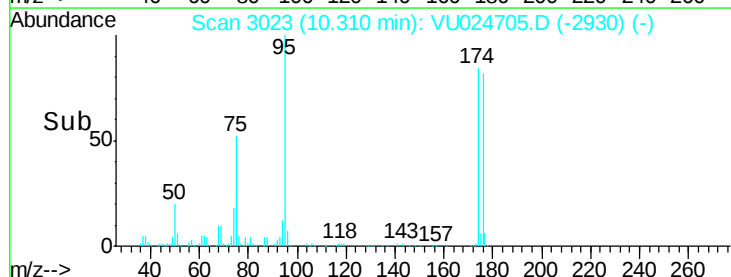
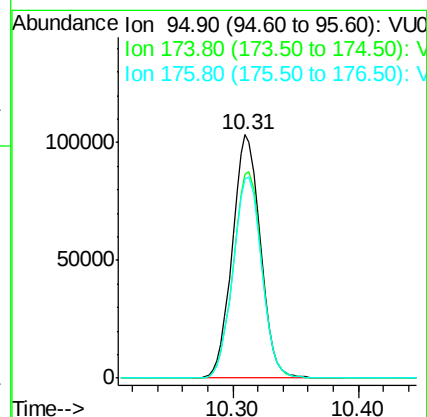
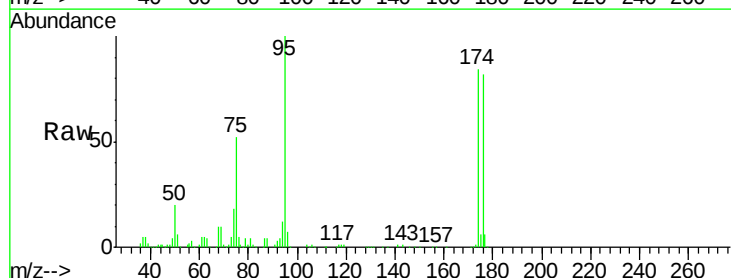
Tgt Ion: 95 Resp: 160924

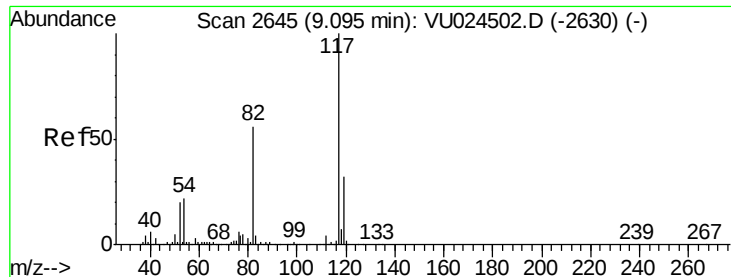
Ion Ratio Lower Upper

95 100

174 86.0 0.0 165.8

176 84.4 0.0 159.4

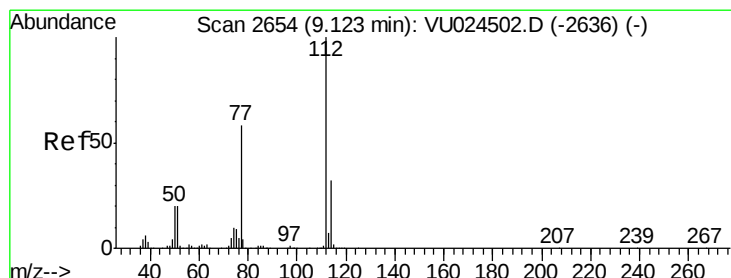
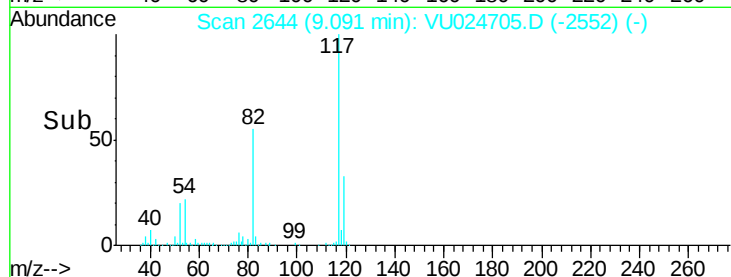
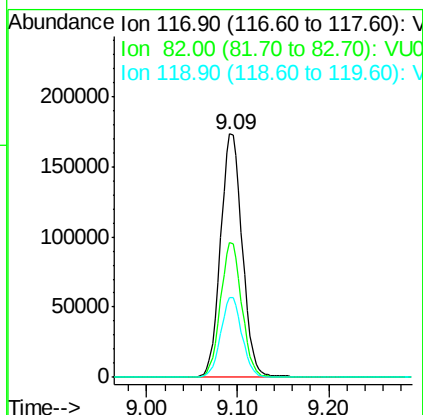
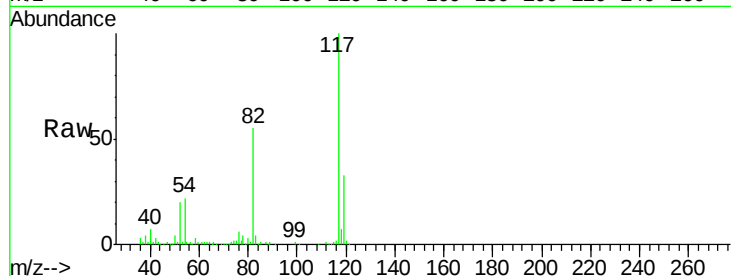




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

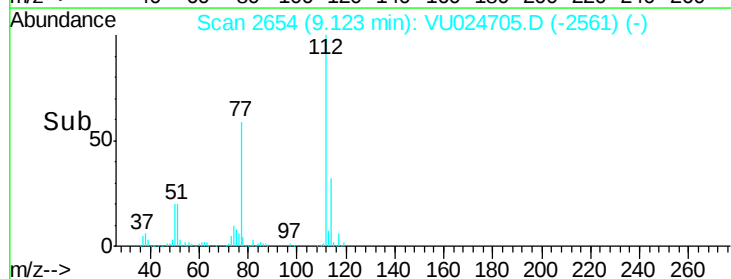
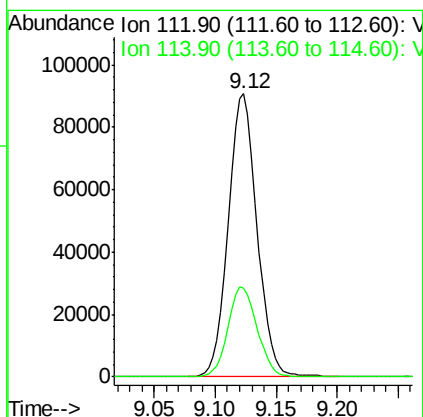
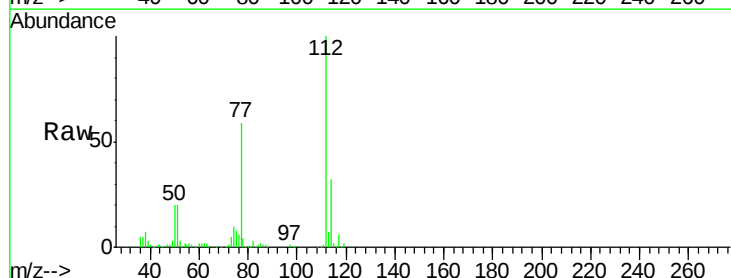
Instrument :
MSVOA_U
ClientSampleId :
S36-0140

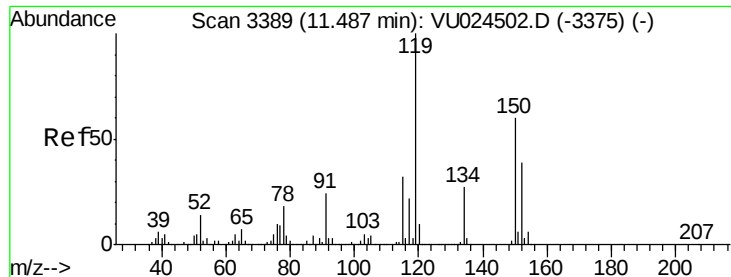
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.3	66.5
119	33.0	25.4	38.2



#65
Chlorobenzene
Concen: 20.362 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024705.D
Acq: 18 Jun 2018 20:39

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

S36-0140

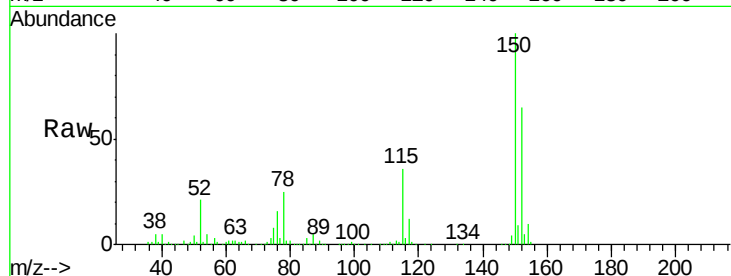
Tgt Ion:152 Resp: 154533

Ion Ratio Lower Upper

152 100

115 57.2 43.0 129.0

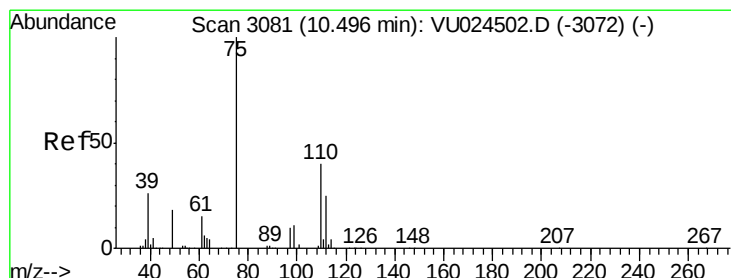
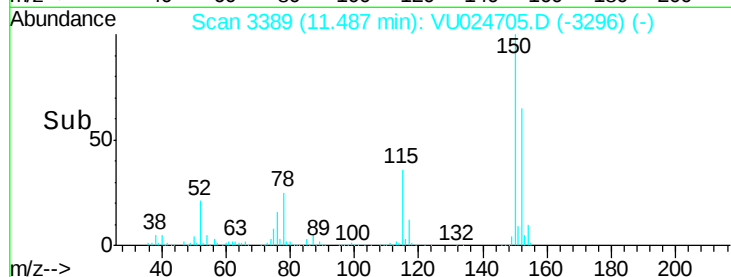
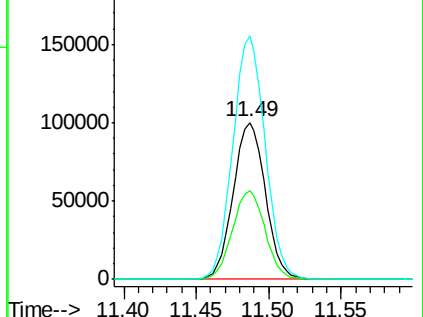
150 156.0 0.0 354.0



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: 24.362 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024705.D

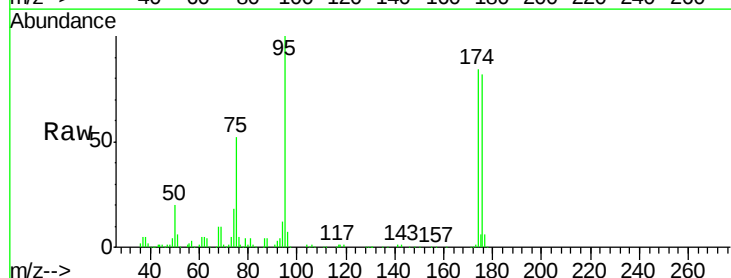
Acq: 18 Jun 2018 20:39

Tgt Ion: 75 Resp: 82887

Ion Ratio Lower Upper

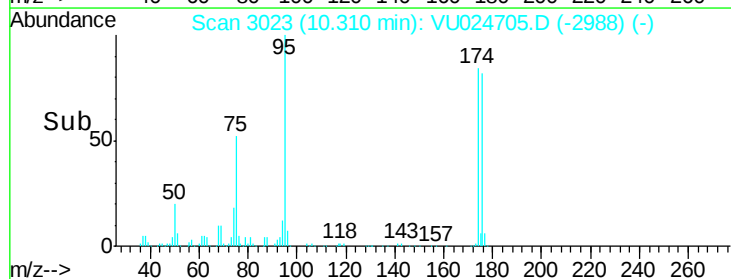
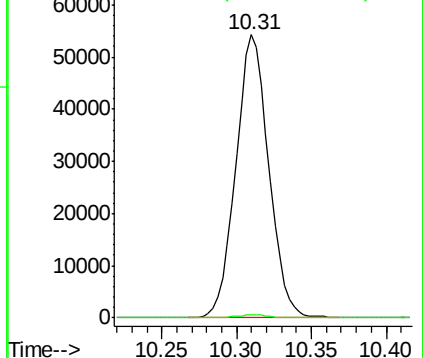
75 100

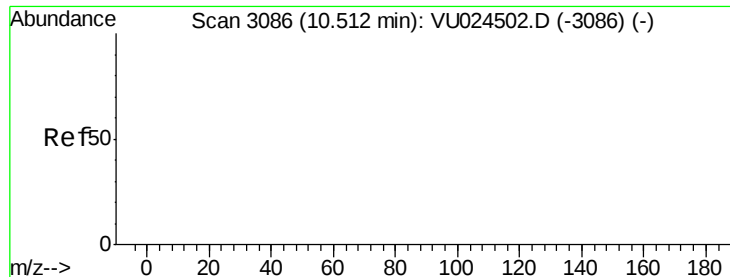
77 1.1 20.9 62.7#



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: 56.385 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

Instrument :

MSVOA_U

ClientSampleId :

S36-0140

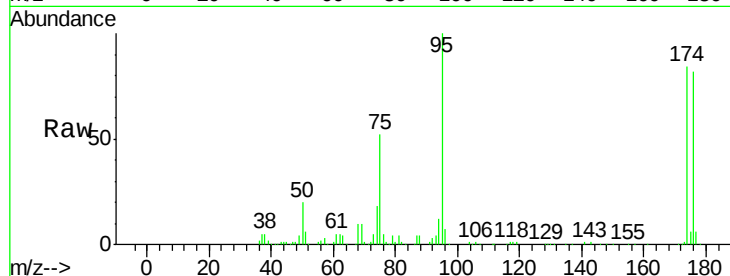
Tgt Ion: 75 Resp: 82887

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

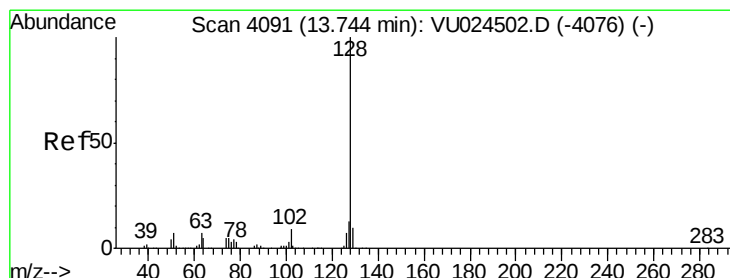
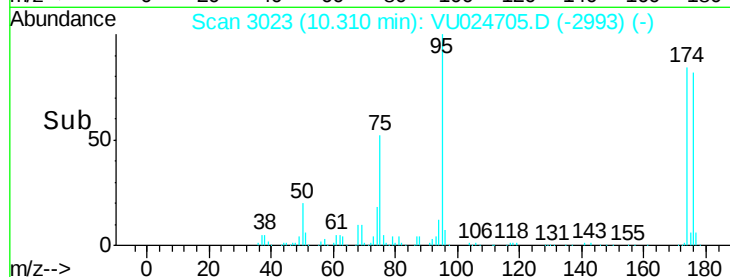
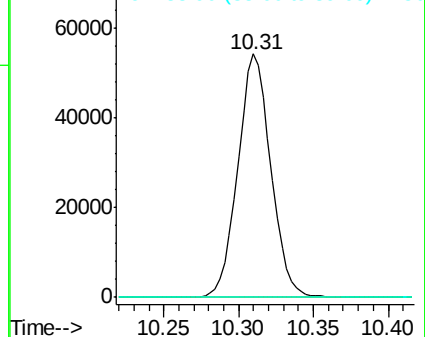
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024705.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024705.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024705.D (-2993) (-)



#95

Naphthalene

Concen: 0.766 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU024705.D

Acq: 18 Jun 2018 20:39

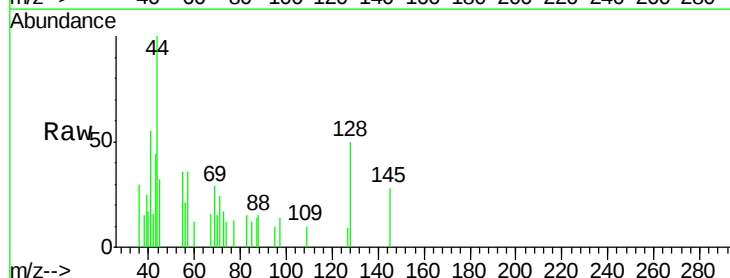
Tgt Ion: 128 Resp: 996

Ion Ratio Lower Upper

128 100

127 6.6 10.6 16.0#

129 2.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024705.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024705.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024705.D (-3997) (-)

