

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121718\
 Data File : VU028754.D
 Acq On : 18 Dec 2018 05:35
 Operator : MD/SY
 Sample : J6413-07DL 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

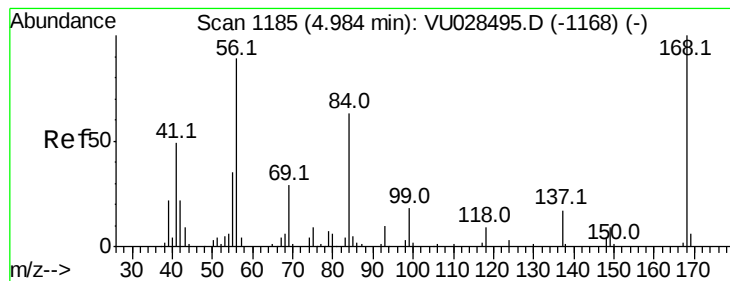
Quant Time: Dec 18 07:40:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	86455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	152138	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	140377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	56845	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	69859	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
35) Dibromofluoromethane	4.88	113	51242	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
50) Toluene-d8	7.56	98	198876	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
62) 4-Bromofluorobenzene	10.31	95	65845	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	4045	1.899	ug/l	100
4) Vinyl Chloride	1.28	62	1633	1.062	ug/l #	55
5) Bromomethane	1.61	94	456	0.736	ug/l	85
10) Methyl Iodide	2.40	142	165	0.217	ug/l #	42
11) Tert butyl alcohol	2.83	59	21637	73.608	ug/l	98
14) Allyl chloride	2.84	41	4913	2.158	ug/l #	57
15) Acrylonitrile	3.00	53	1383	1.695	ug/l #	18
18) Methyl Acetate	2.62	43	1742	0.781	ug/l #	76
19) Methyl tert-butyl Ether	3.00	73	144698	39.654	ug/l	99
22) Diisopropyl ether	3.57	45	2325	0.525	ug/l	95
23) Vinyl Acetate	3.58	43	1259	0.345	ug/l #	76
31) Cyclohexane	4.98	56	1800	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7534	4.525	ug/l #	45
38) Carbon Tetrachloride	4.98	117	8334	6.211	ug/l #	14
51) 4-Methyl-2-Pentanone	7.56	43	972	0.453	ug/l #	1
76) 1,2,3-Trichloropropane	10.30	75	34257	23.600	ug/l #	35
79) 2-Chlorotoluene	10.59	91	690	0.221	ug/l #	43
81) trans-1,4-Dichloro-2-buten	10.30	75	34257	57.941	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

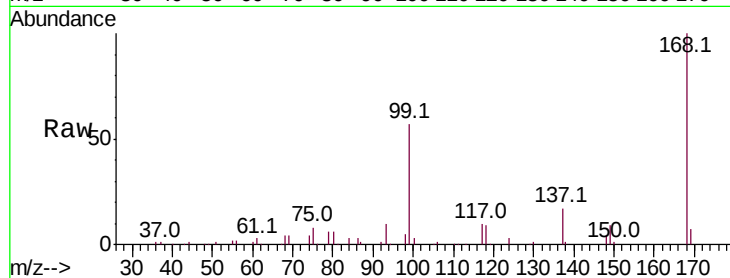
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 86455

Ion Ratio Lower Upper

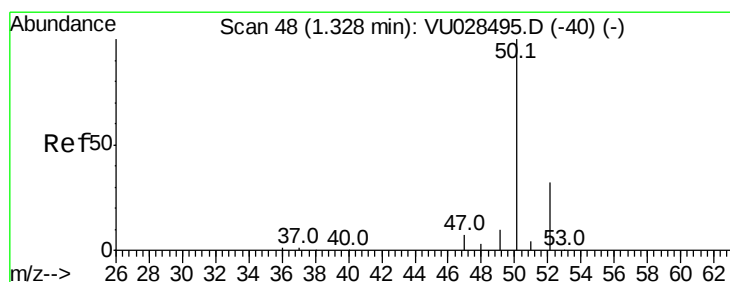
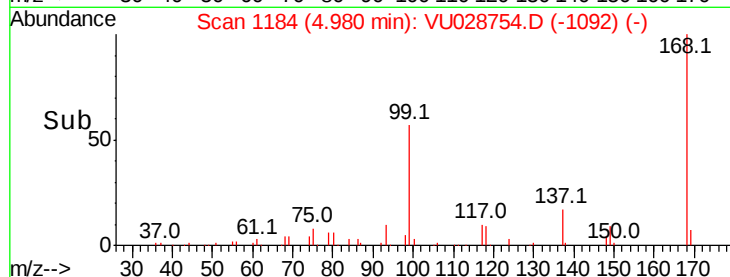
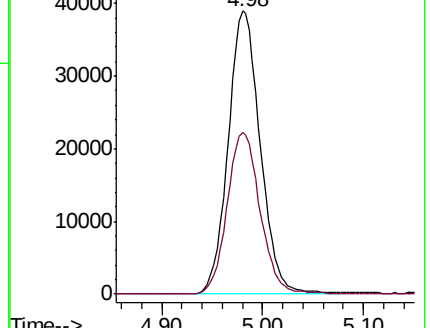
168 100

99 57.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 1.899 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028754.D

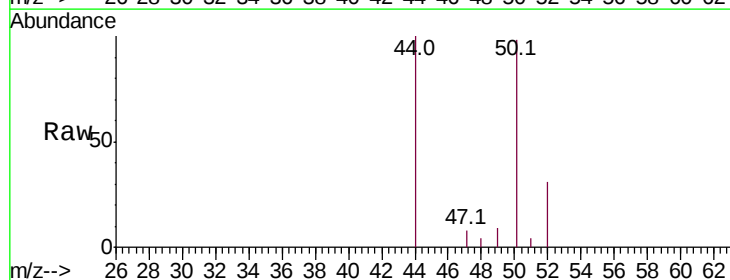
Acq: 18 Dec 2018 05:35

Tgt Ion: 50 Resp: 4045

Ion Ratio Lower Upper

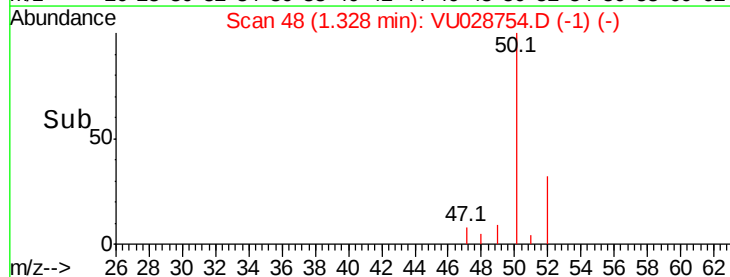
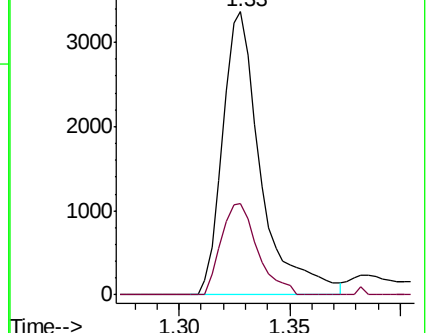
50 100

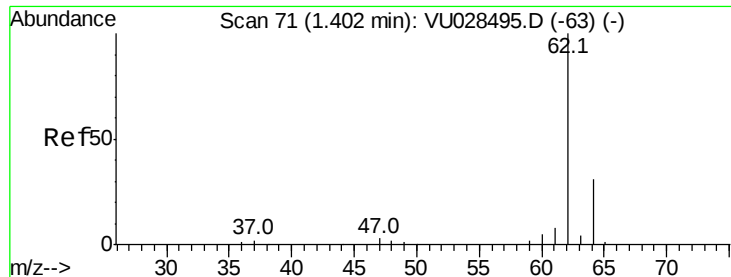
52 32.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)





#4

Vinyl Chloride

Concen: 1.062 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

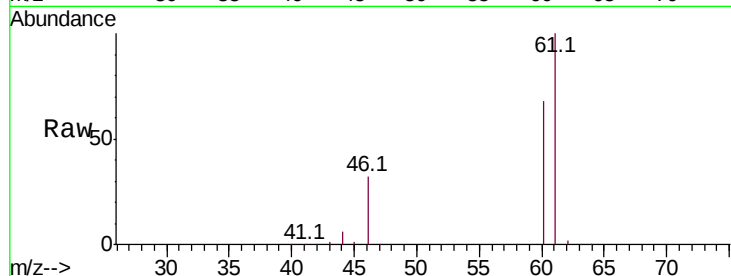
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 1633

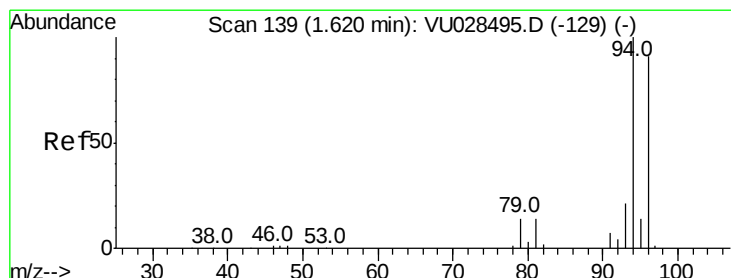
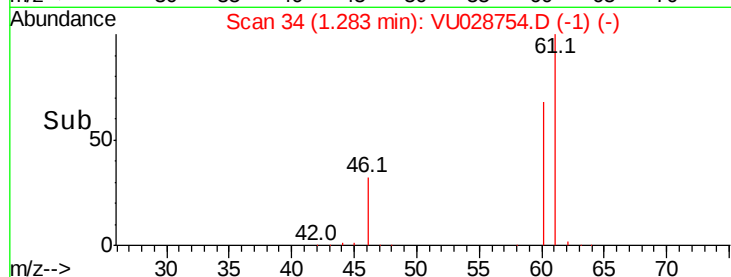
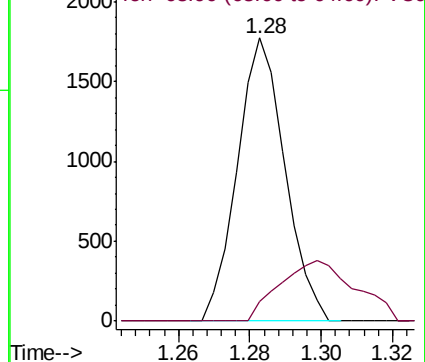
Ion Ratio Lower Upper

62 100

64 6.8 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0
Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.736 ug/l

RT: 1.61 min Scan# 135

Delta R.T. -0.01 min

Lab File: VU028754.D

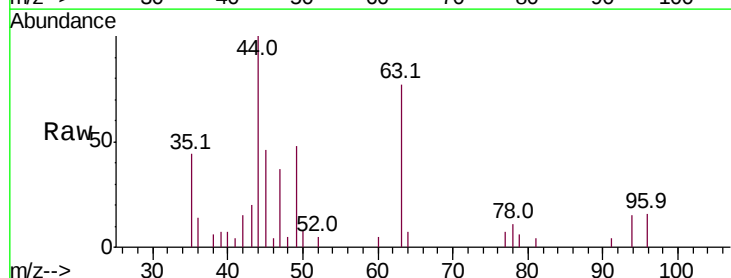
Acq: 18 Dec 2018 05:35

Tgt Ion: 94 Resp: 456

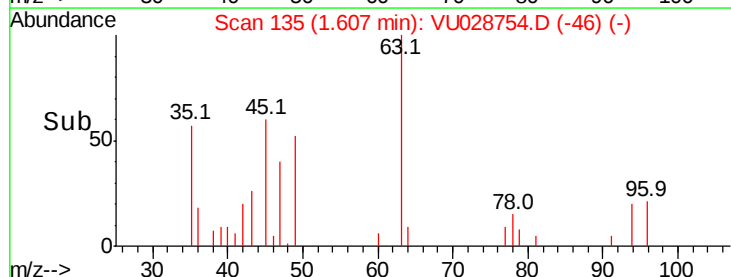
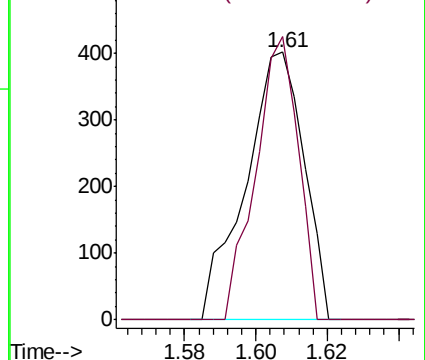
Ion Ratio Lower Upper

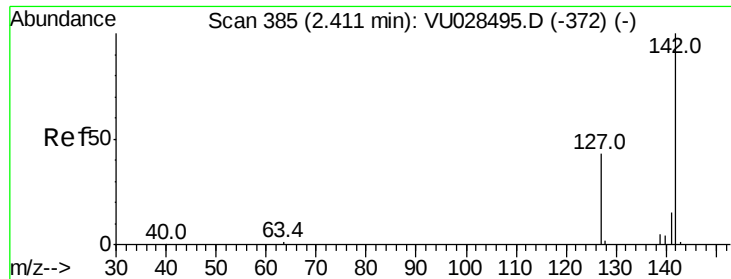
94 100

96 105.7 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VU0
Ion 95.90 (95.60 to 96.60): VU0

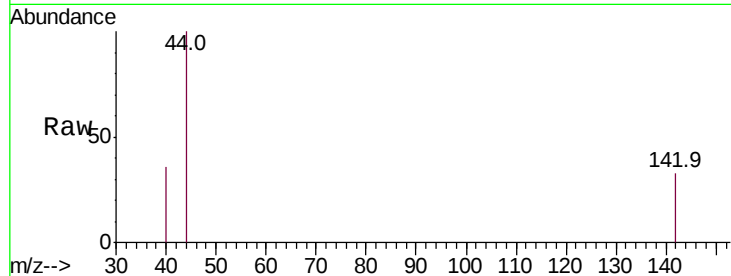




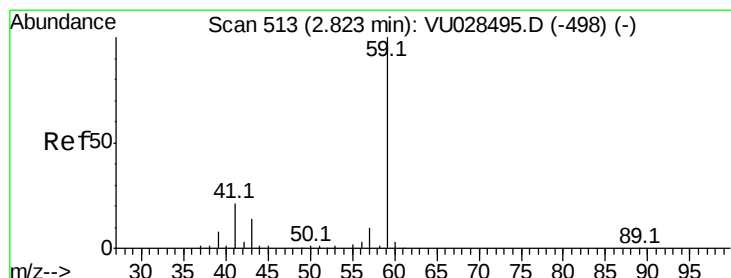
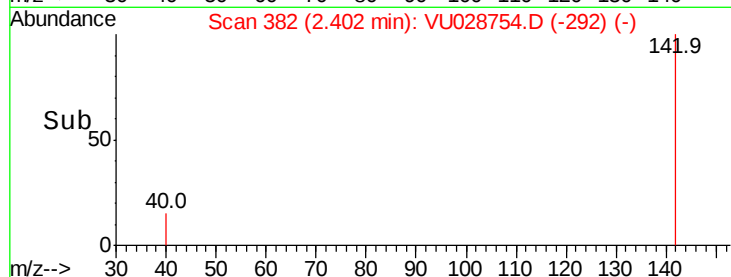
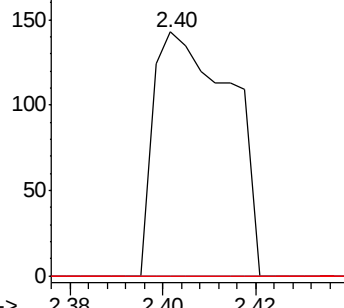
#10
Methyl Iodide
Concen: 0.217 ug/l
RT: 2.40 min Scan# 382
Delta R.T. -0.01 min
Lab File: VU028754.D
Acq: 18 Dec 2018 05:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 165
Ion Ratio Lower Upper
142 100
127 0.0 33.5 50.3#
141 0.0 11.2 16.8#

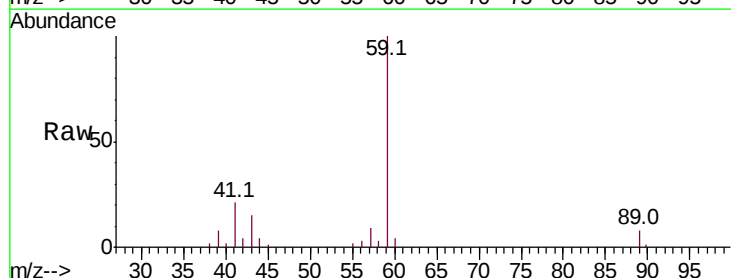


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

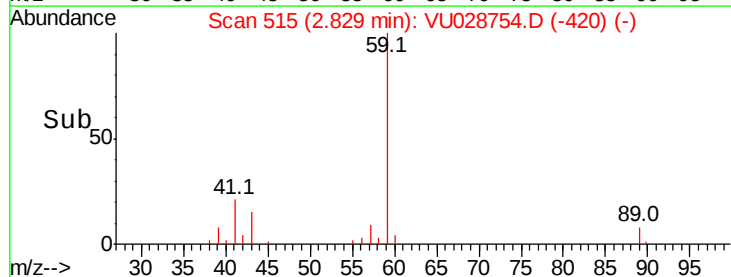
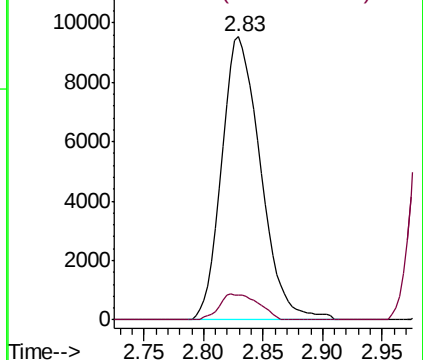


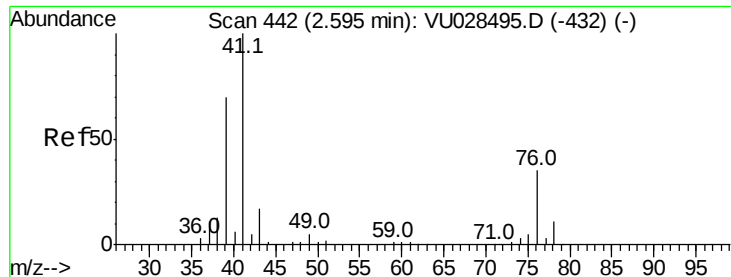
#11
Tert butyl alcohol
Concen: 73.608 ug/l
RT: 2.83 min Scan# 515
Delta R.T. 0.01 min
Lab File: VU028754.D
Acq: 18 Dec 2018 05:35

Tgt Ion: 59 Resp: 21637
Ion Ratio Lower Upper
59 100
57 9.3 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#14

Allvl chloride

Concen: 2.158 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.24 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

Instrument :

MSVOA_U

ClientSampleId :

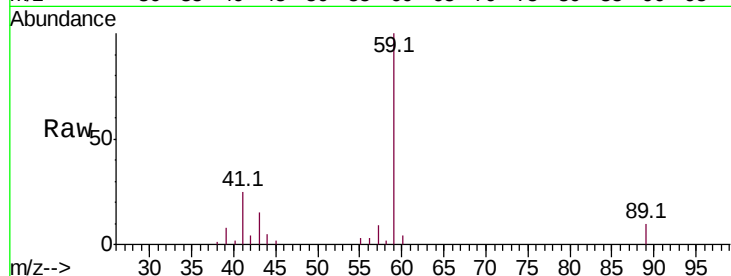
Tot Ion: 41 Resp: 4913

Ion Ratio Lower Upper

41 100

39 35.0 50.8 76.2#

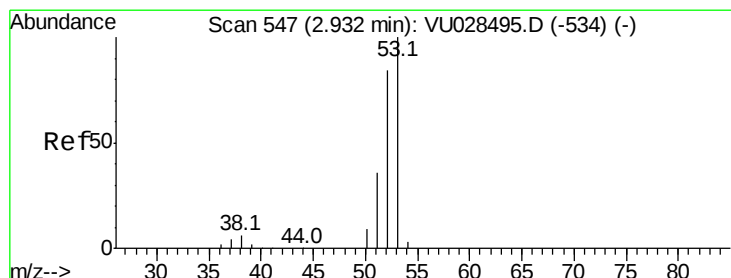
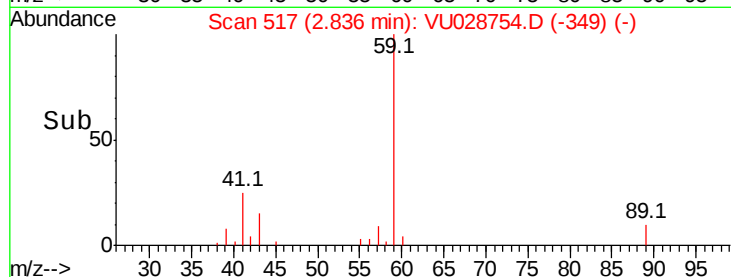
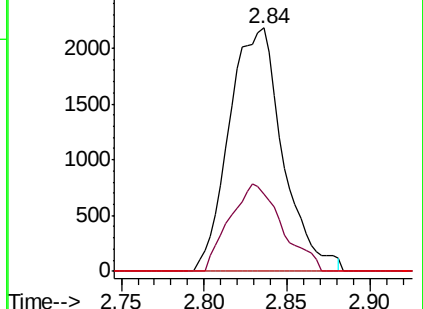
76 0.0 24.8 37.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0



#15

Acrylonitrile

Concen: 1.695 ug/l

RT: 3.00 min Scan# 569

Delta R.T. 0.07 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

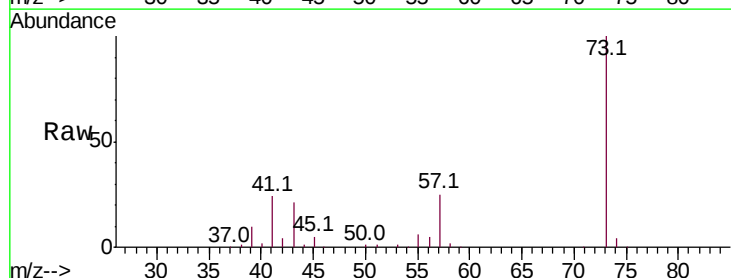
Tgt Ion: 53 Resp: 1383

Ion Ratio Lower Upper

53 100

52 8.4 66.1 99.1#

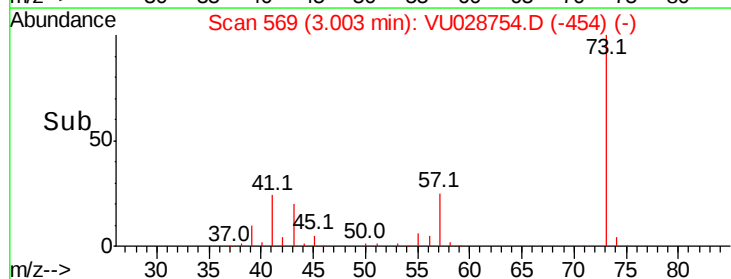
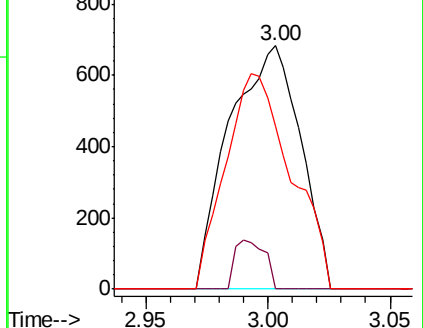
51 81.3 28.1 42.1#

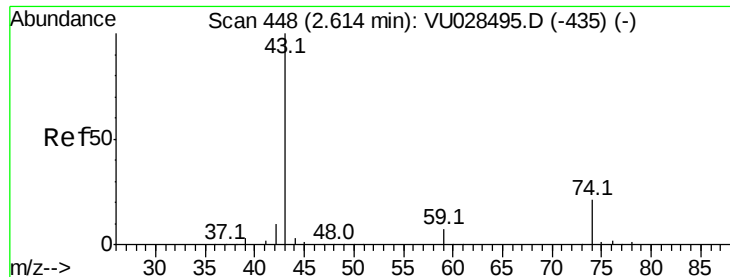


Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

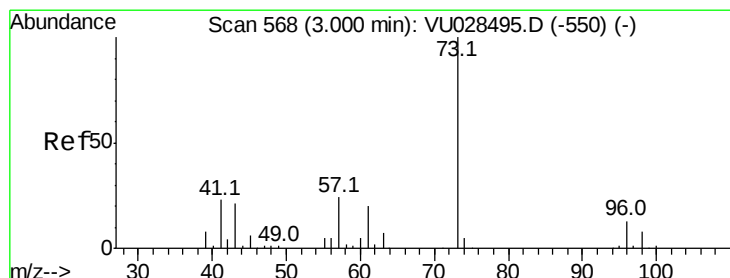
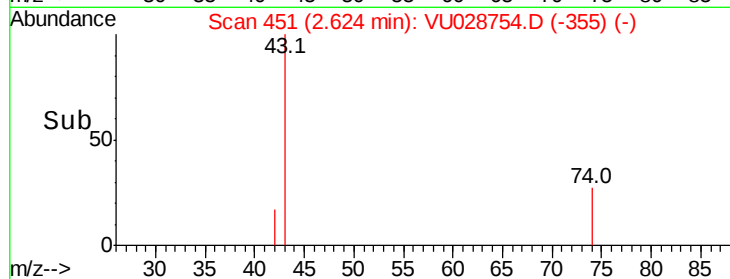
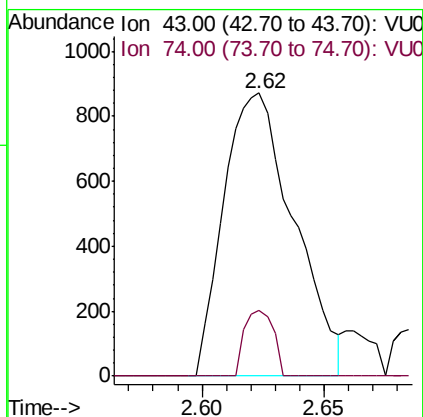
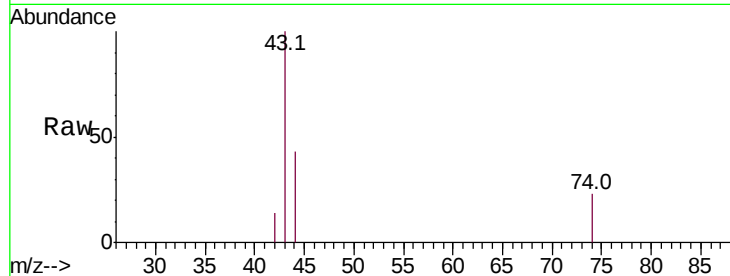




#18
Methyl Acetate
Concen: 0.781 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU028754.D
Acq: 18 Dec 2018 05:35

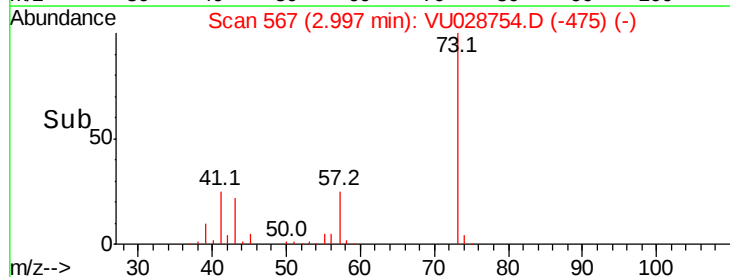
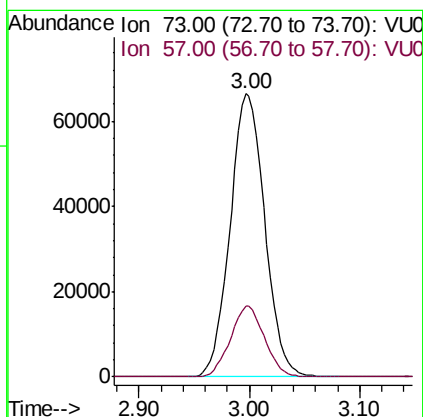
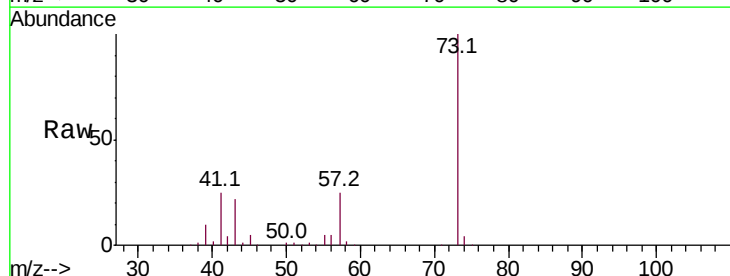
Instrument :
MSVOA_U
ClientSampleId :

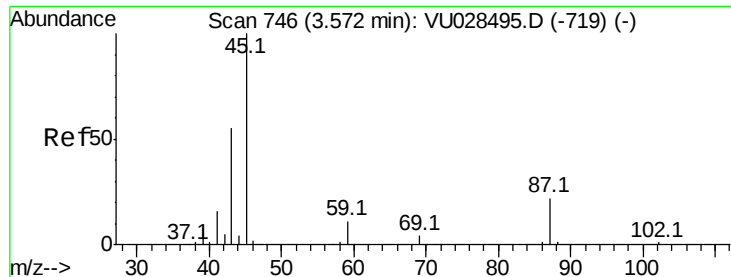
Tot Ion: 43 Resp: 1742
Ion Ratio Lower Upper
43 100
74 9.5 16.4 24.6#



#19
Methyl tert-butyl Ether
Concen: 39.654 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU028754.D
Acq: 18 Dec 2018 05:35

Tgt Ion: 73 Resp: 144698
Ion Ratio Lower Upper
73 100
57 25.0 19.4 29.2





#22

Diisopropyl ether

Concen: 0.525 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 45 Resp: 2325

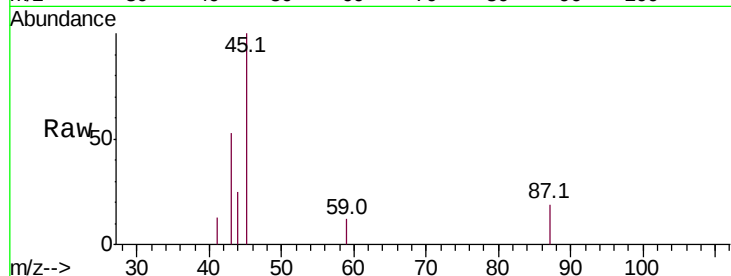
Ion Ratio Lower Upper

45 100

43 52.6 45.3 67.9

87 19.1 17.6 26.4

59 11.6 8.8 13.2

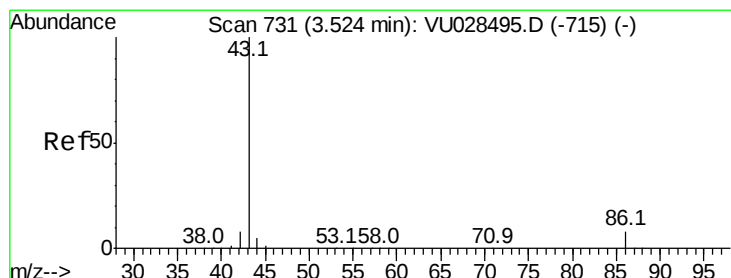
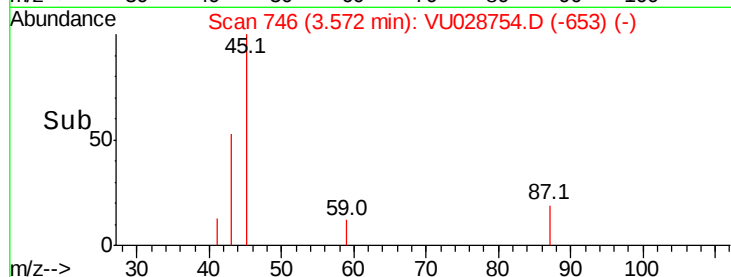
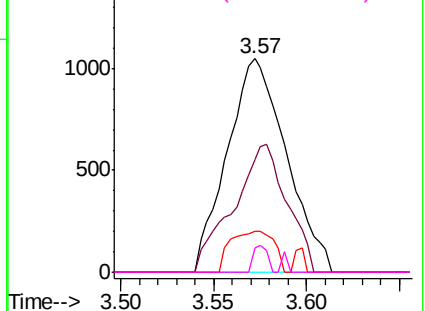


Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0



#23

Vinyl Acetate

Concen: 0.345 ug/l

RT: 3.58 min Scan# 748

Delta R.T. 0.05 min

Lab File: VU028754.D

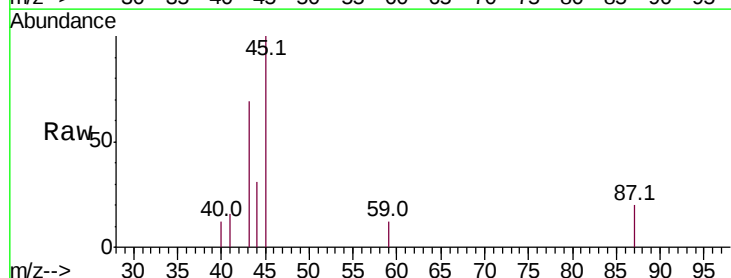
Acq: 18 Dec 2018 05:35

Tgt Ion: 43 Resp: 1259

Ion Ratio Lower Upper

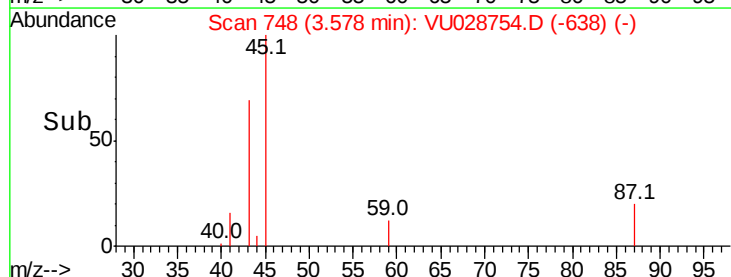
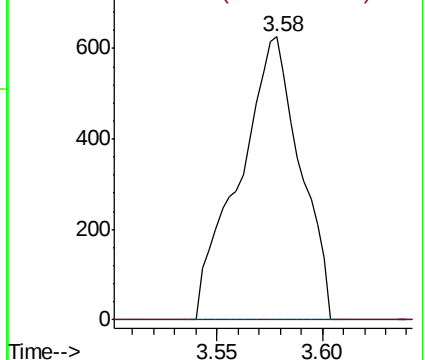
43 100

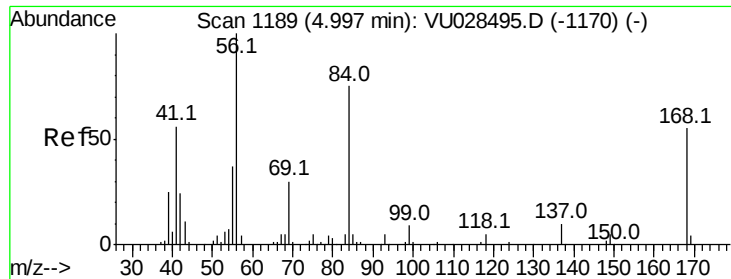
86 0.0 6.8 10.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

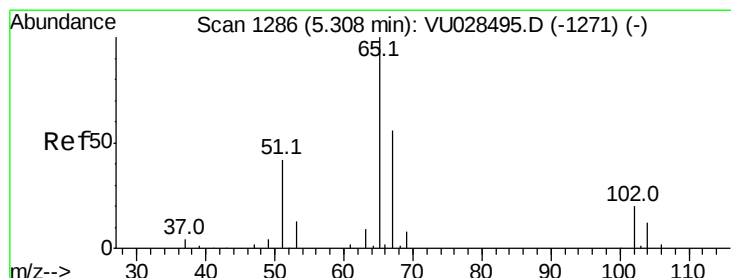
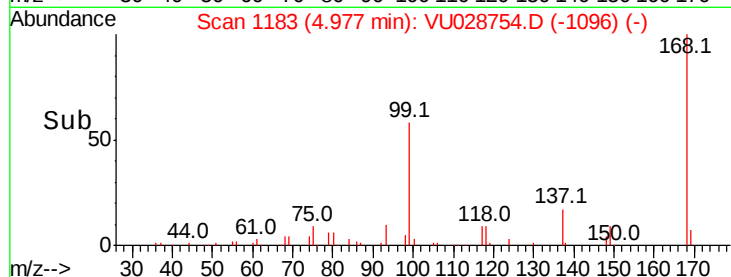
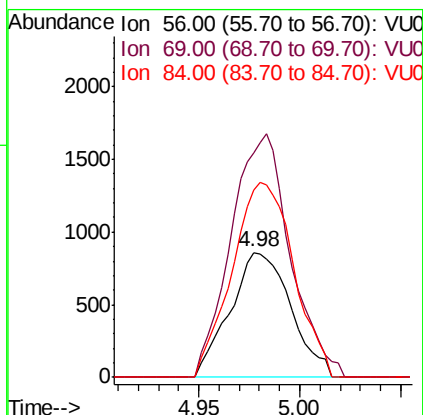
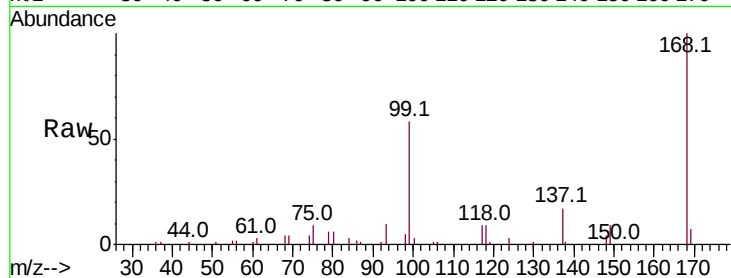




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU028754.D
Acq: 18 Dec 2018 05:35

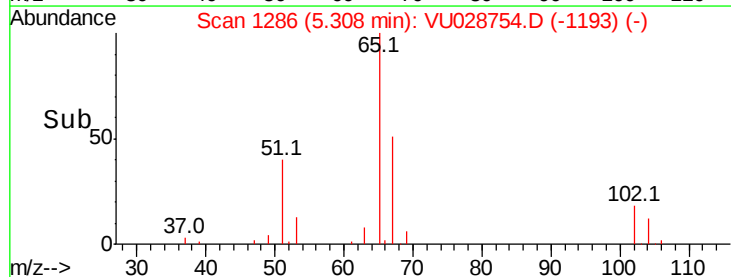
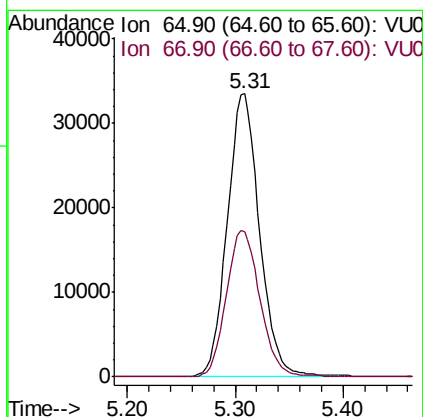
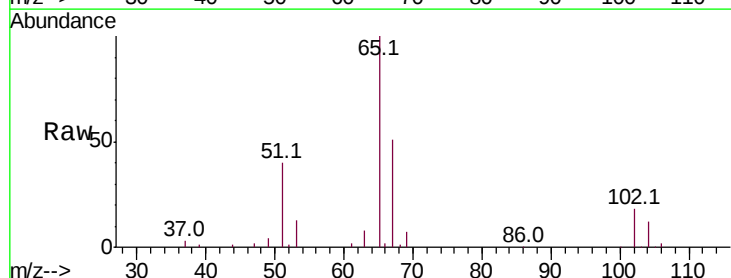
Instrument :
MSVOA_U
ClientSampled :

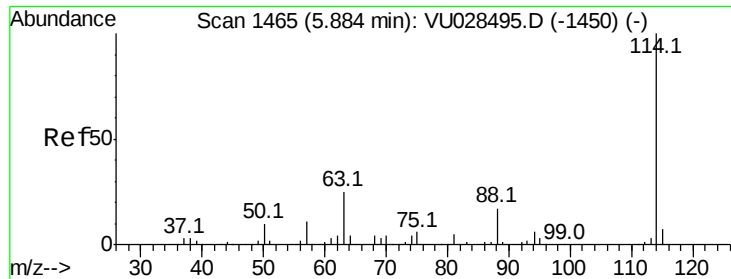
Tot Ion: 56 Resp: 1800
Ion Ratio Lower Upper
56 100
69 179.5 24.0 36.0#
84 150.0 59.7 89.5#



#33
1,2-Dichloroethane-d4
Concen: 52.949 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028754.D
Acq: 18 Dec 2018 05:35

Tgt Ion: 65 Resp: 69859
Ion Ratio Lower Upper
65 100
67 53.7 0.0 110.6

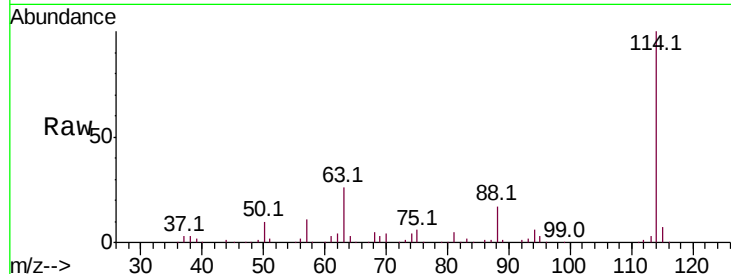




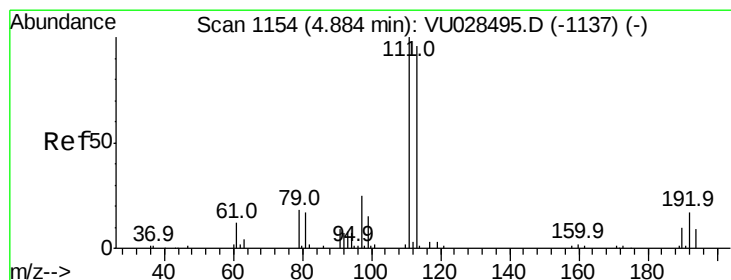
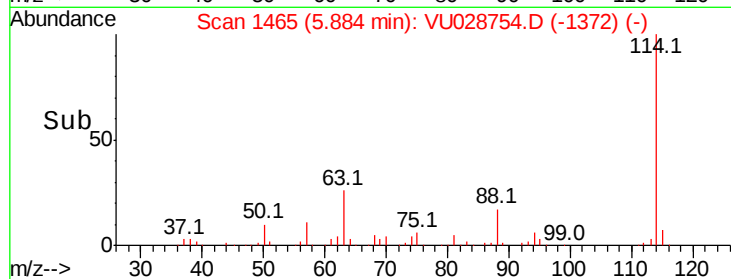
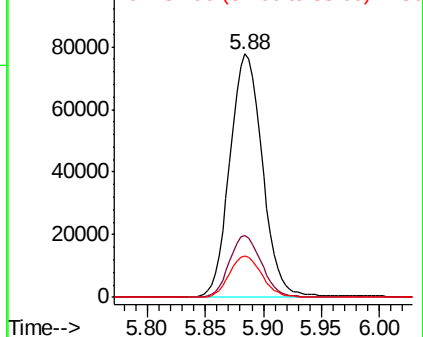
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028754.D
 Acq: 18 Dec 2018 05:35

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:114 Resp: 152138
 Ion Ratio Lower Upper
 114 100
 63 25.5 0.0 49.2
 88 16.8 0.0 33.4

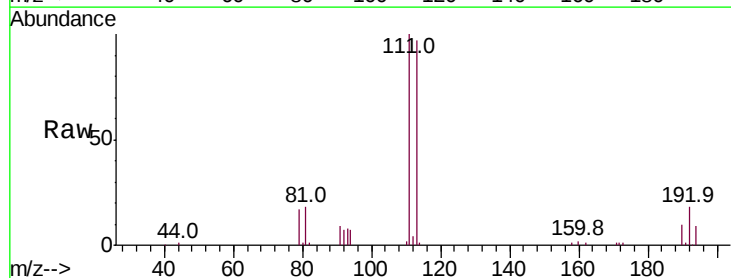


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

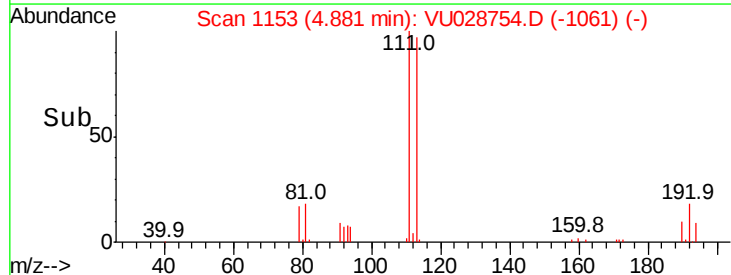
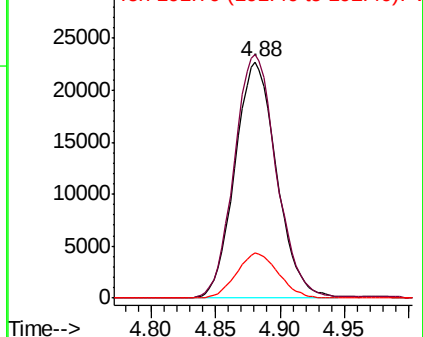


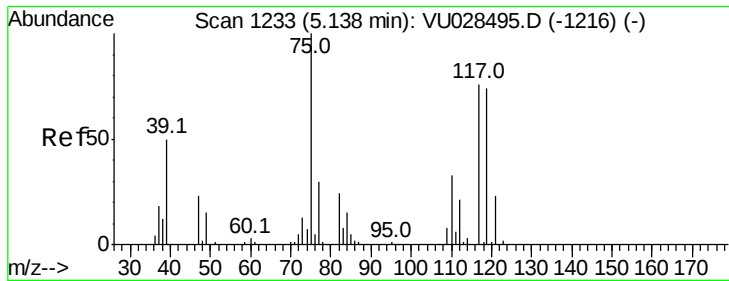
#35
 Dibromofluoromethane
 Concen: 53.521 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028754.D
 Acq: 18 Dec 2018 05:35

Tgt Ion:113 Resp: 51242
 Ion Ratio Lower Upper
 113 100
 111 103.9 83.4 125.0
 192 19.0 14.8 22.2



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

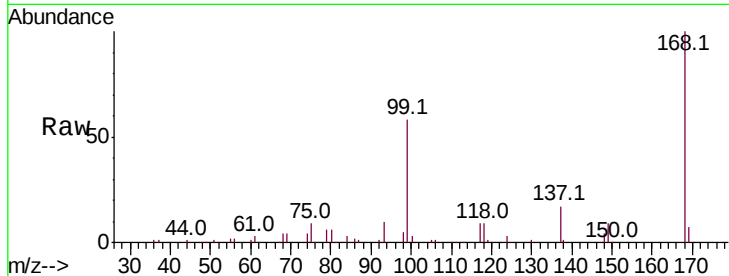




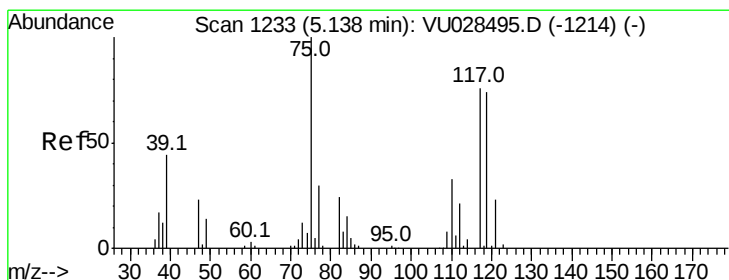
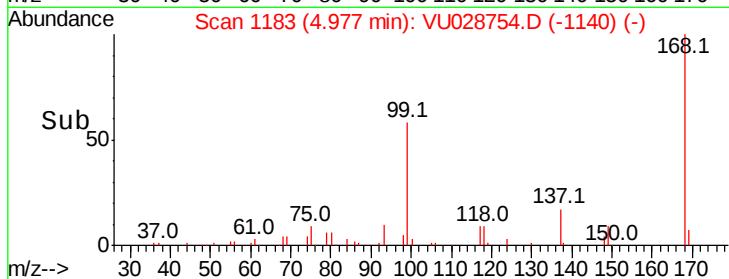
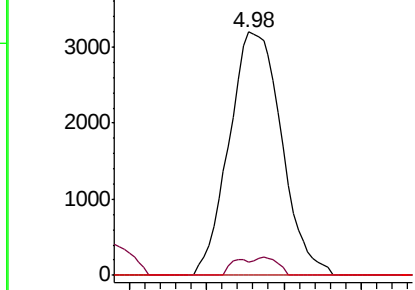
#36
 1,1-Dichloropropene
 Concen: 4.525 ug/l
 RT: 4.98 min Scan# 1183
 Delta R.T. -0.16 min
 Lab File: VU028754.D
 Acq: 18 Dec 2018 05:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 7534
 Ion Ratio Lower Upper
 75 100
 110 2.3 16.1 48.2#
 77 0.0 24.5 36.7#

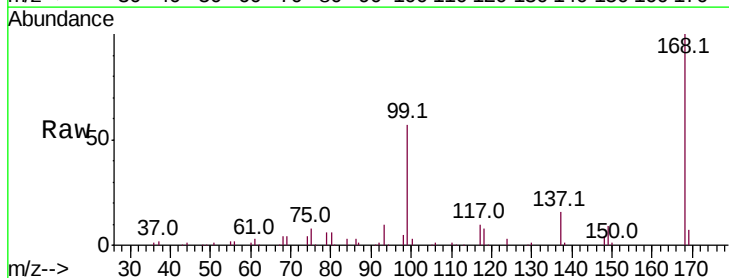


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

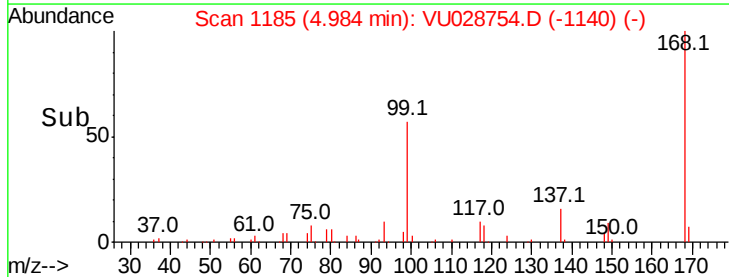
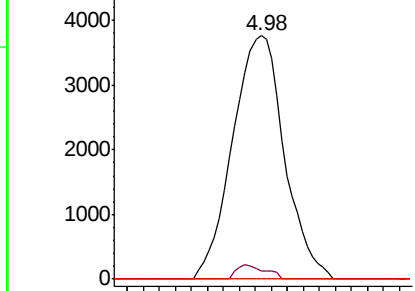


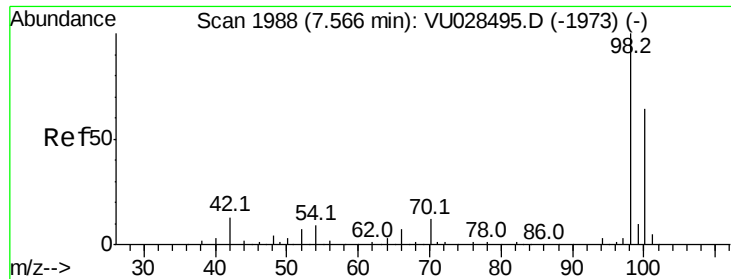
#38
 Carbon Tetrachloride
 Concen: 6.211 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028754.D
 Acq: 18 Dec 2018 05:35

Tgt Ion: 117 Resp: 8334
 Ion Ratio Lower Upper
 117 100
 119 3.5 77.6 116.4#
 121 0.0 24.6 36.8#



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





#50

Toluene-d8

Concen: 52.510 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

Instrument :

MSVOA_U

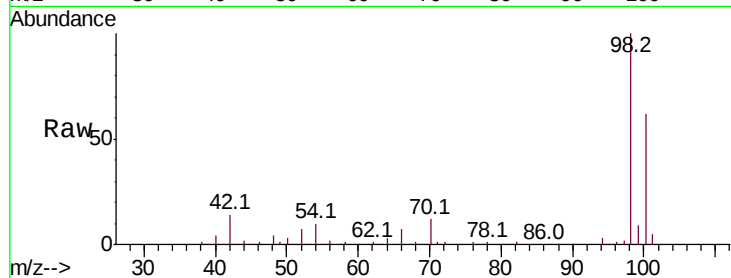
ClientSampled :

Tot Ion: 98 Resp: 198876

Ion Ratio Lower Upper

98 100

100 63.1 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

7.56

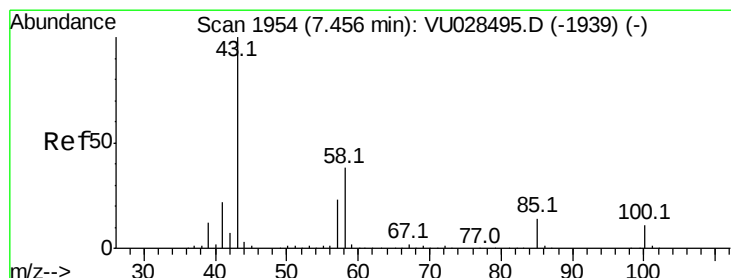
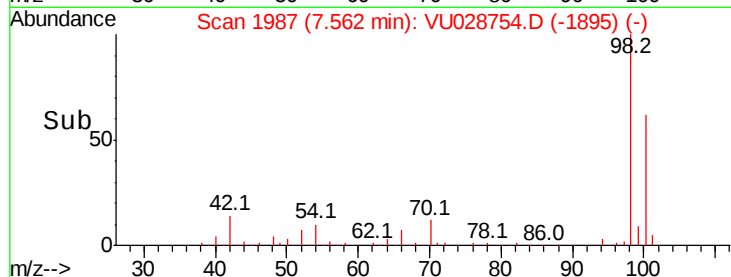
100000

50000

0

7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.453 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028754.D

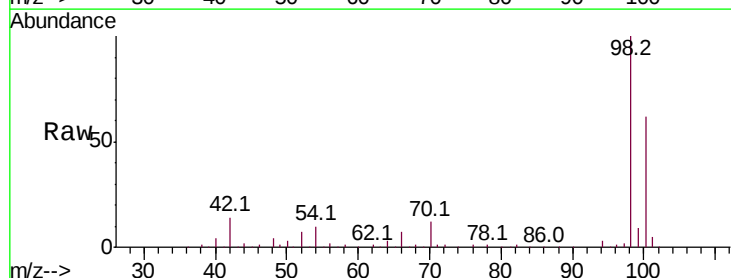
Acq: 18 Dec 2018 05:35

Tgt Ion: 43 Resp: 972

Ion Ratio Lower Upper

43 100

58 183.8 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

7.56

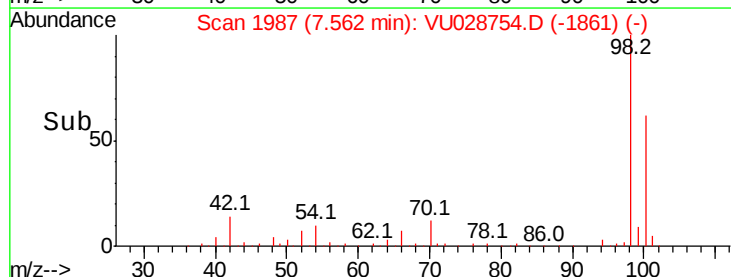
1000

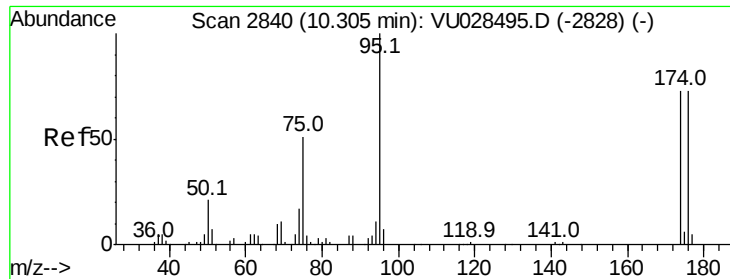
500

0

7.55 7.60

Time-->





#62

4-Bromofluorobenzene

Concen: 46.515 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

Instrument :

MSVOA_U

ClientSampleId :

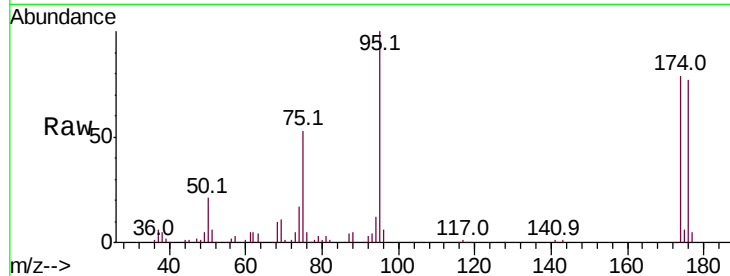
Tot Ion: 95 Resp: 65845

Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.4

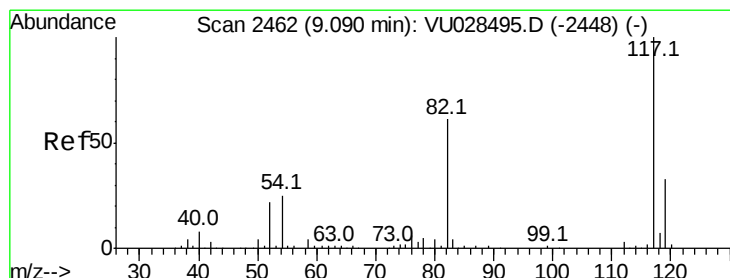
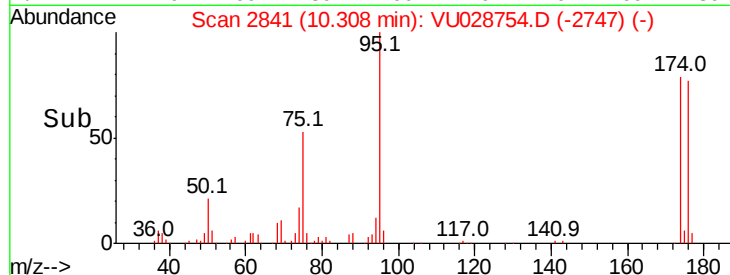
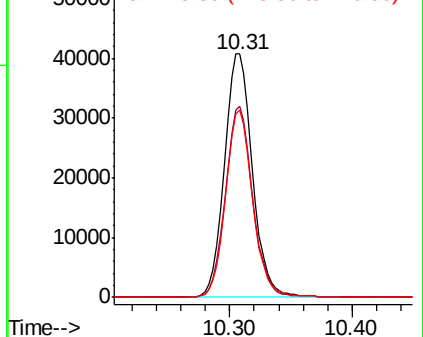
176 74.3 0.0 145.2



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: VU028754.D

Acq: 18 Dec 2018 05:35

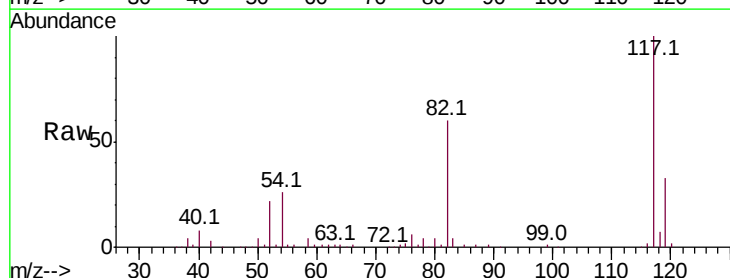
Tgt Ion: 117 Resp: 140377

Ion Ratio Lower Upper

117 100

82 59.5 48.9 73.3

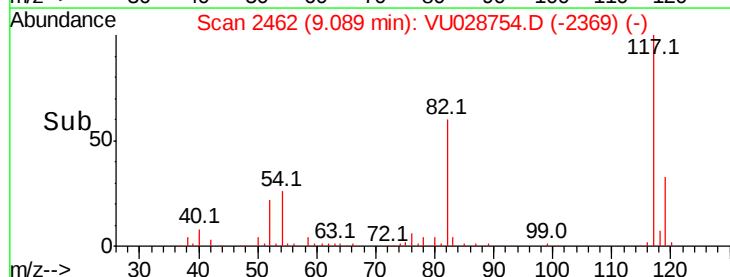
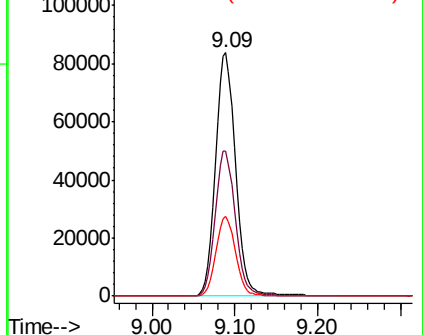
119 32.7 26.2 39.4

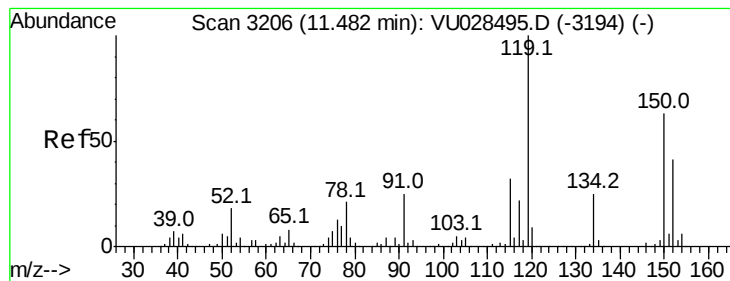


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

Instrument :

MSVOA_U

ClientSampleId :

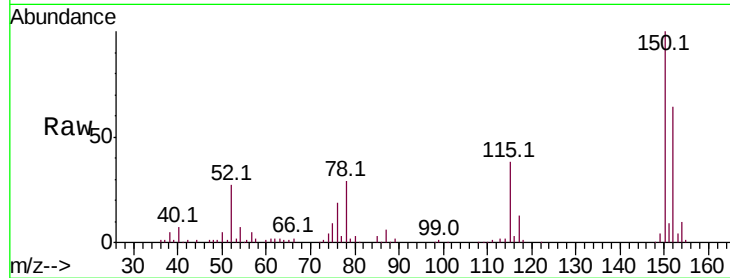
Tot Ion:152 Resp: 56845

Ion Ratio Lower Upper

152 100

115 60.2 42.7 128.1

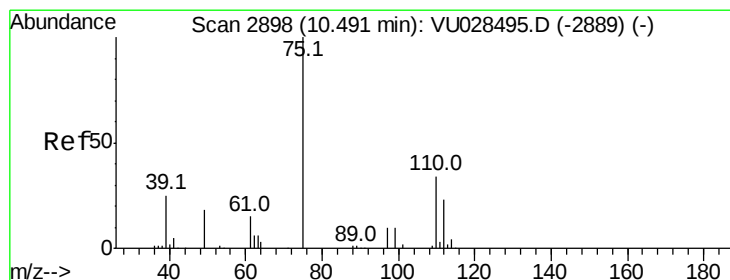
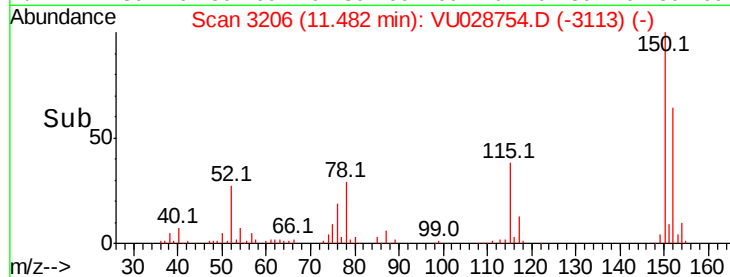
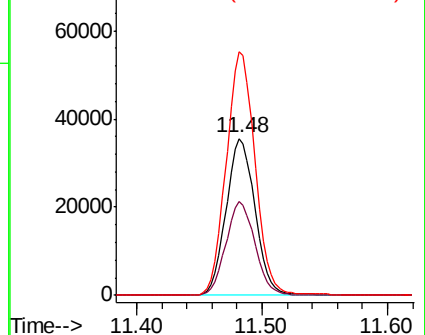
150 155.1 0.0 346.0



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: 23.600 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028754.D

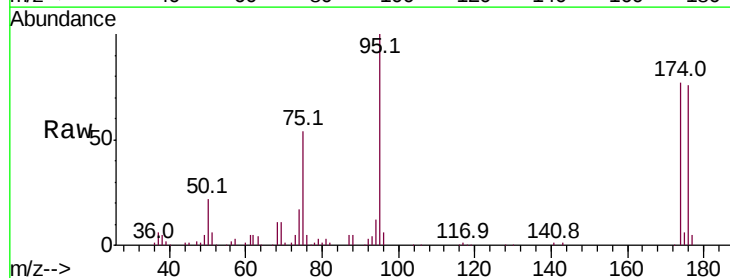
Acq: 18 Dec 2018 05:35

Tgt Ion: 75 Resp: 34257

Ion Ratio Lower Upper

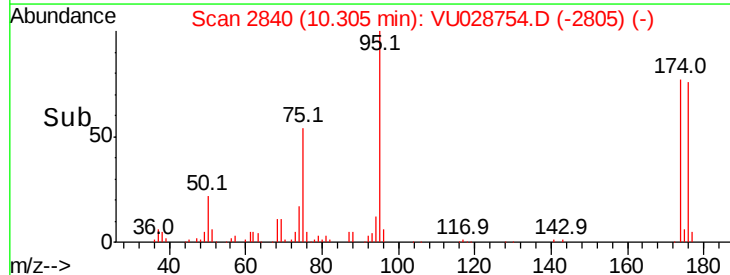
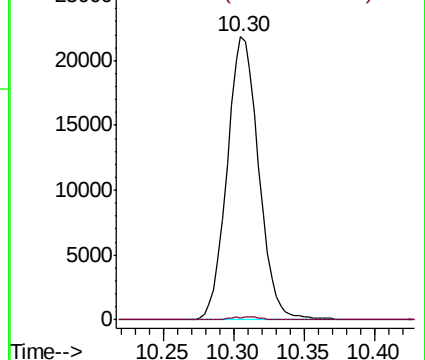
75 100

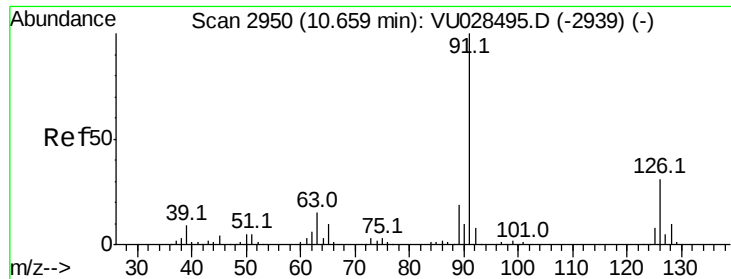
77 0.9 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#79

2-Chlorotoluene

Concen: 0.221 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. -0.07 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

Instrument :

MSVOA_U

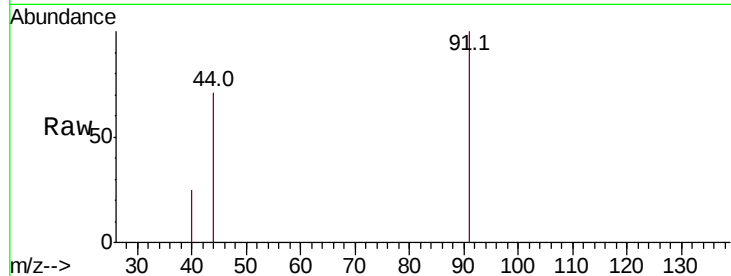
ClientSampleId :

Tot Ion: 91 Resp: 690

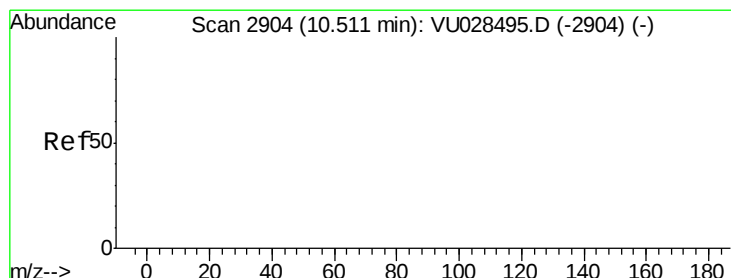
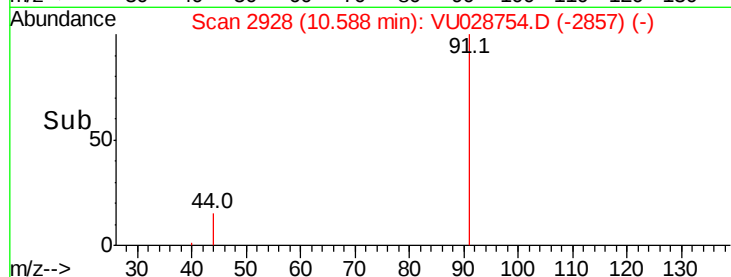
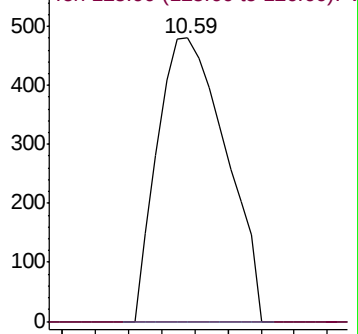
Ion Ratio Lower Upper

91 100

126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VU028495.D (-2939) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 57.941 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028754.D

Acq: 18 Dec 2018 05:35

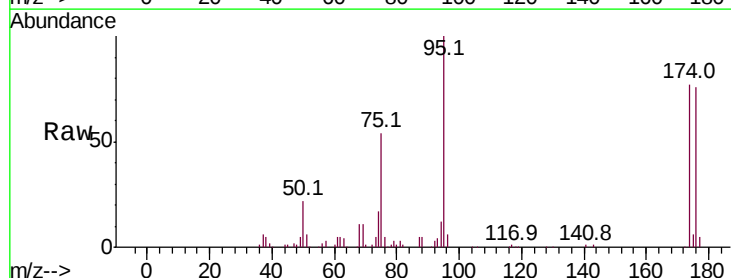
Tgt Ion: 75 Resp: 34257

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): VU028495.D (-2904) (-)

