

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024967.D
 Acq On : 27 Jun 2018 15:27
 Operator : MD/SY
 Sample : J3664-10ME
 Misc : 6.40g/5.0mL/100uL/5.00ML/MSVOA_U/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB476-31-33-180619ME

Quant Time: Jun 28 02:26:33 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	4.98	168	235024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	351706	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	340673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	195367	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	173939	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
35) Dibromofluoromethane	4.89	113	136419	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	7.57	98	515505	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
62) 4-Bromofluorobenzene	10.32	95	209962	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	

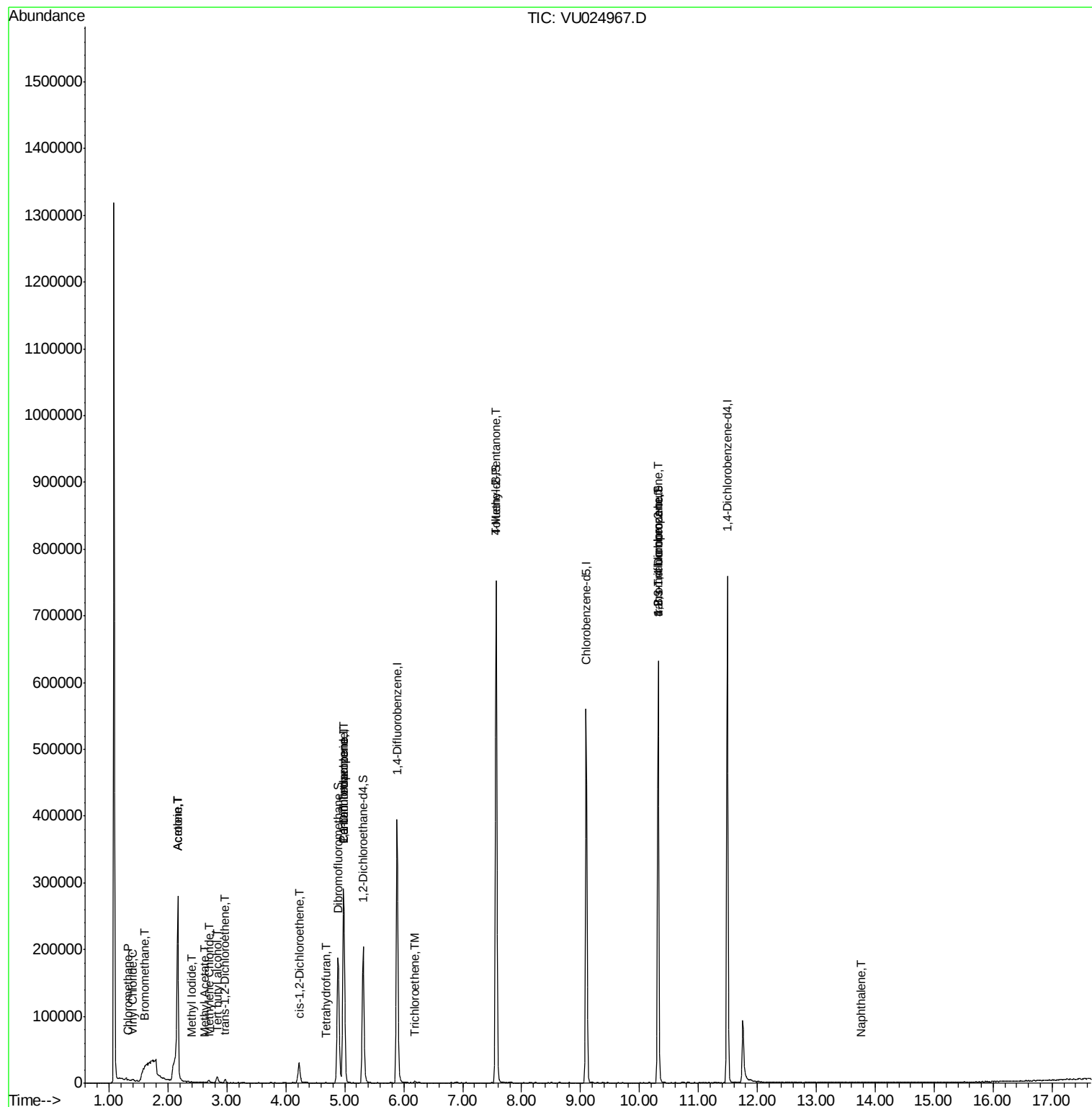
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1109	0.369	ug/l	97
4) Vinyl Chloride	1.40	62	1127	0.364	ug/l #	73
5) Bromomethane	1.61	94	967	0.645	ug/l	94
6) Chloroethane	1.70	64	160	Below Cal	#	43
8) Diethyl Ether	1.81	74	41	Below Cal	#	1
10) Methyl Iodide	2.39	142	747	5.558	ug/l #	78
11) Tert butyl alcohol	2.84	59	5646	6.050	ug/l #	72
13) Acrolein	2.17	56	222	0.453	ug/l #	74
16) Acetone	2.17	43	65626	31.834	ug/l #	44
18) Methyl Acetate	2.63	43	1623	0.367	ug/l #	66
20) Methylene Chloride	2.69	84	1673	0.517	ug/l	88
21) trans-1,2-Dichloroethene	2.97	96	2141	0.726	ug/l	94
27) cis-1,2-Dichloroethene	4.22	96	17568	5.185	ug/l	87
29) Tetrahydrofuran	4.68	42	362	0.211	ug/l #	34
31) Cyclohexane	4.98	56	4879	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	17390	4.208	ug/l #	50
38) Carbon Tetrachloride	4.98	117	23123	5.088	ug/l #	16
44) Trichloroethene	6.18	130	1170	0.349	ug/l	89
51) 4-Methyl-2-Pentanone	7.57	43	2391	0.489	ug/l #	1
76) 1,2,3-Trichloropropane	10.32	75	106883	24.849	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.32	75	106883	57.511	ug/l #	100
95) Naphthalene	13.76	128	691	0.727	ug/l #	78

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

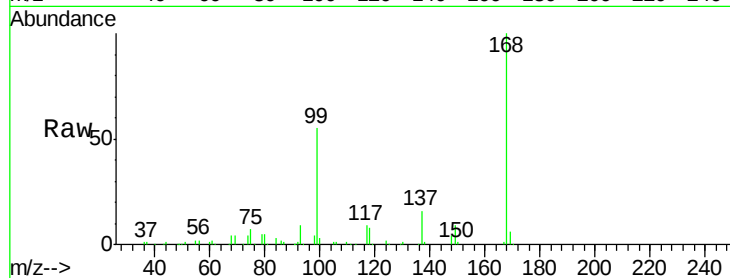
WP021SB476-31-33-180619ME

Tgt Ion:168 Resp: 235024

Ion Ratio Lower Upper

168 100

99 54.6 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024967.D (-1275) (-)

4.98

120000

100000

80000

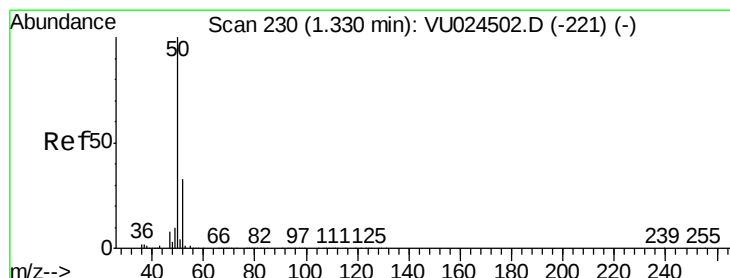
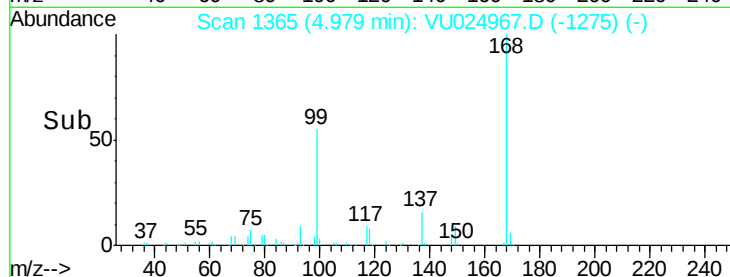
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.369 ug/l

RT: 1.32 min Scan# 227

Delta R.T. -0.01 min

Lab File: VU024967.D

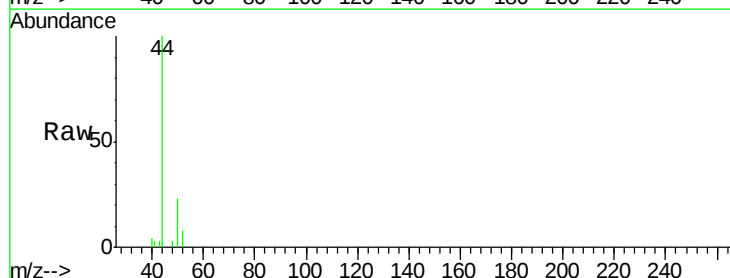
Acq: 27 Jun 2018 15:27

Tgt Ion: 50 Resp: 1109

Ion Ratio Lower Upper

50 100

52 34.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024967.D (-137) (-)

1.32

1000

800

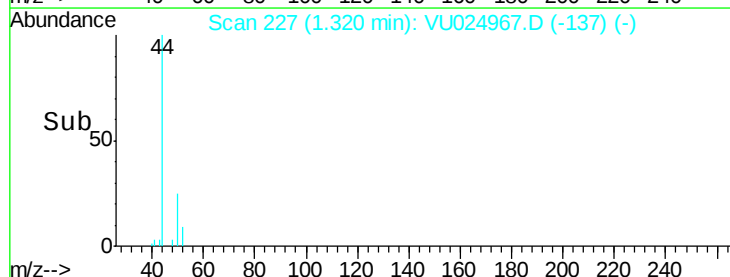
600

400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.364 ug/l

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

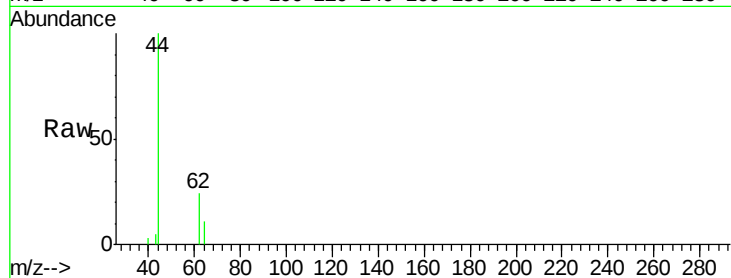
WP021SB476-31-33-180619ME

Tgt Ion: 62 Resp: 1127

Ion Ratio Lower Upper

62 100

64 45.7 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

800

600

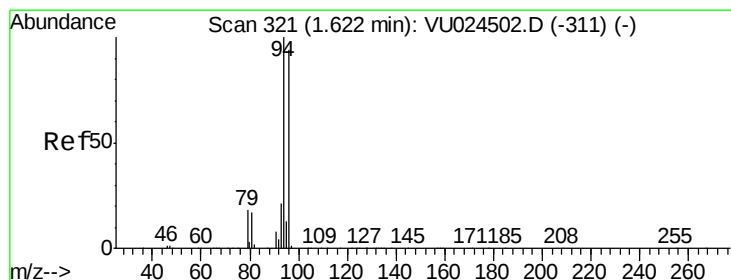
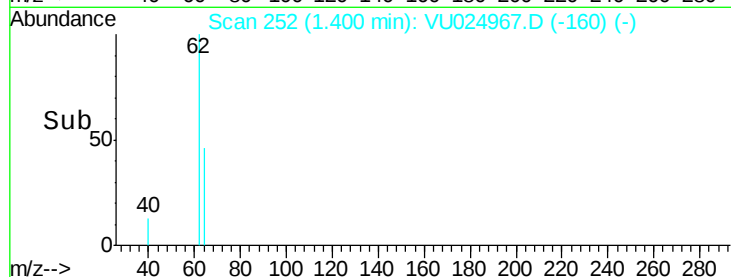
400

200

0

1.36 1.38 1.40 1.42 1.44

Time-->



#5

Bromomethane

Concen: 0.645 ug/l

RT: 1.61 min Scan# 316

Delta R.T. -0.02 min

Lab File: VU024967.D

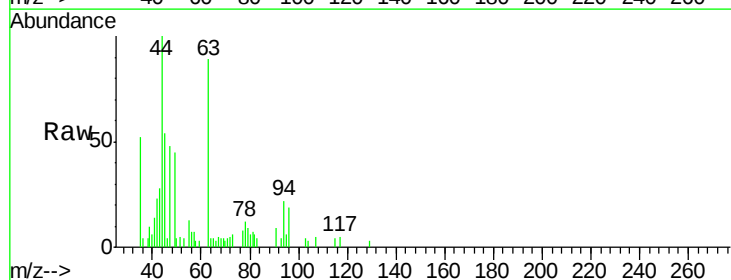
Acq: 27 Jun 2018 15:27

Tgt Ion: 94 Resp: 967

Ion Ratio Lower Upper

94 100

96 87.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.61

800

600

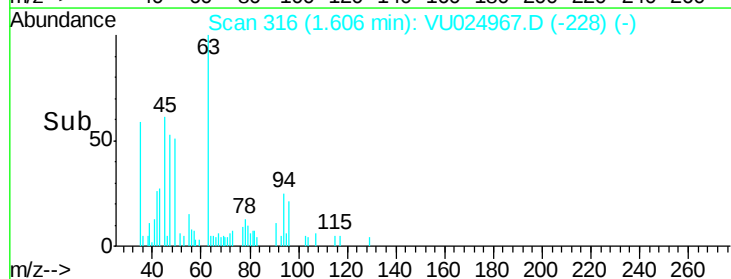
400

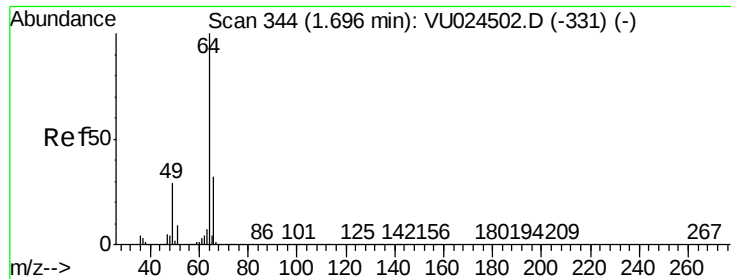
200

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

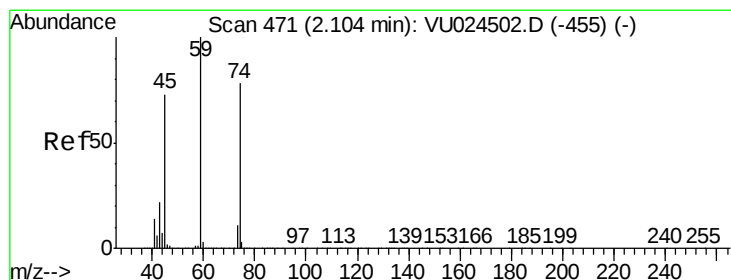
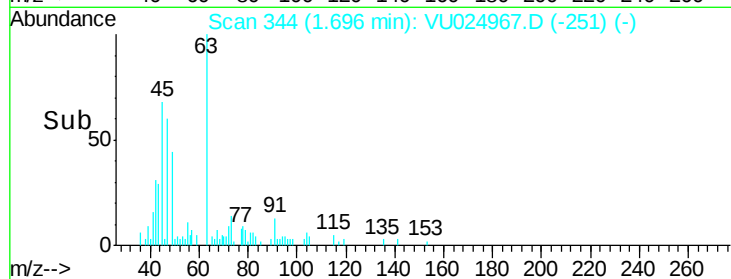
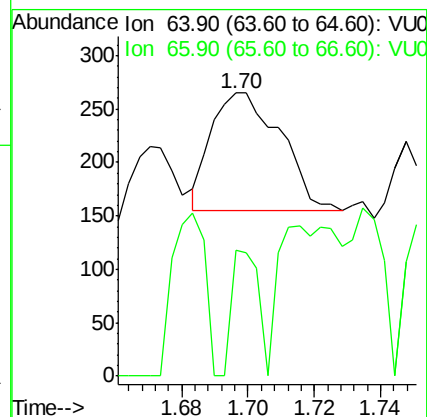
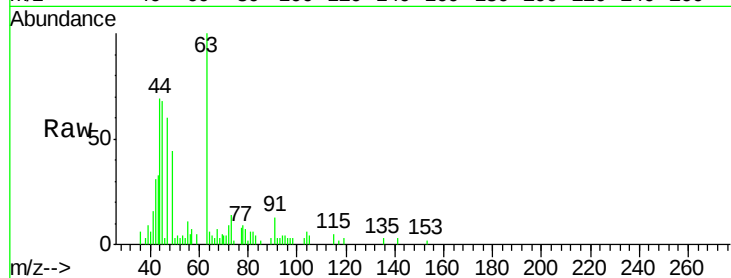
WP021SB476-31-33-180619ME

Tgt Ion: 64 Resp: 160

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 1.81 min Scan# 379

Delta R.T. -0.30 min

Lab File: VU024967.D

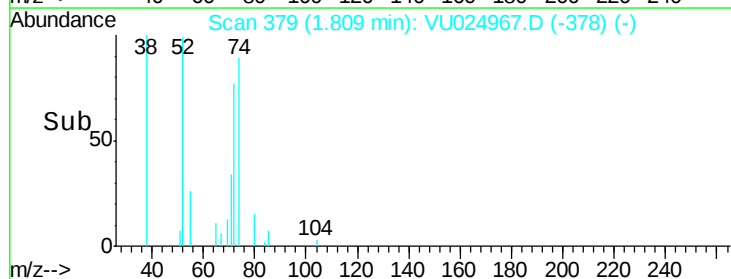
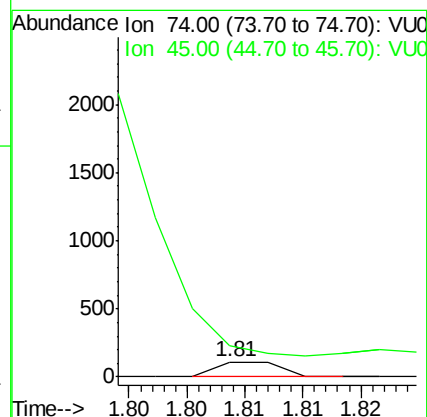
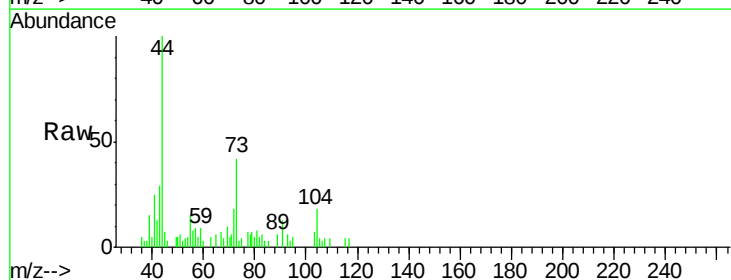
Acq: 27 Jun 2018 15:27

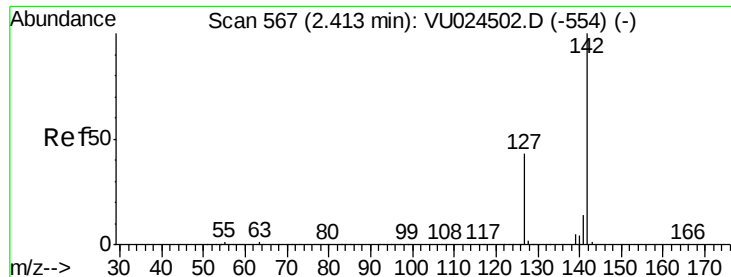
Tgt Ion: 74 Resp: 41

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#





#10

Methyl Iodide

Concen: 5.558 ug/l

RT: 2.39 min Scan# 560

Delta R.T. -0.02 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

WP021SB476-31-33-180619ME

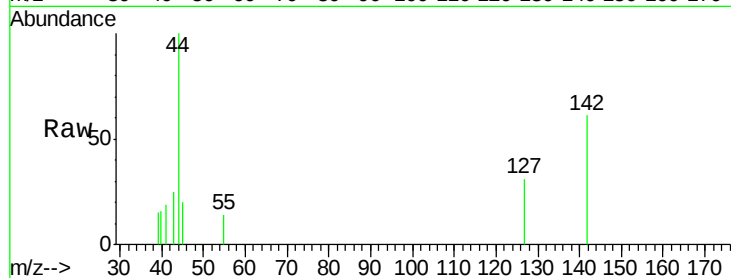
Tgt Ion:142 Resp: 747

Ion Ratio Lower Upper

142 100

127 33.2 35.6 53.4#

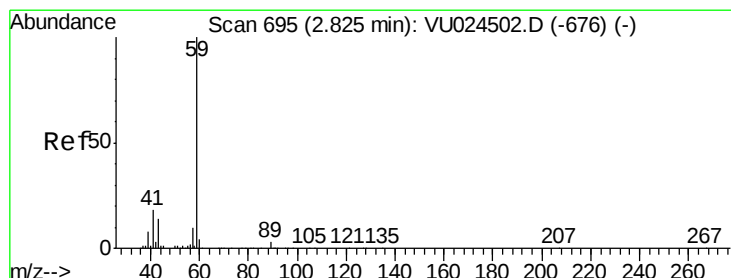
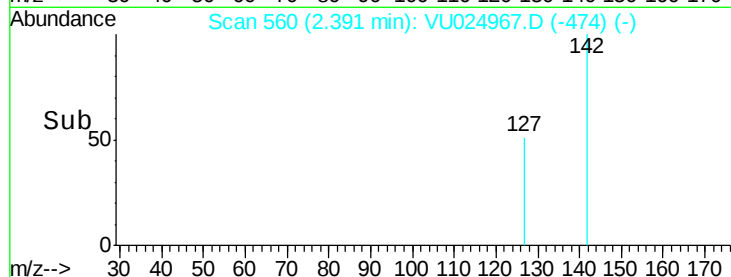
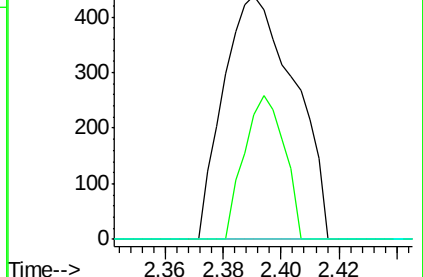
141 0.0 11.7 17.5#



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: 6.050 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU024967.D

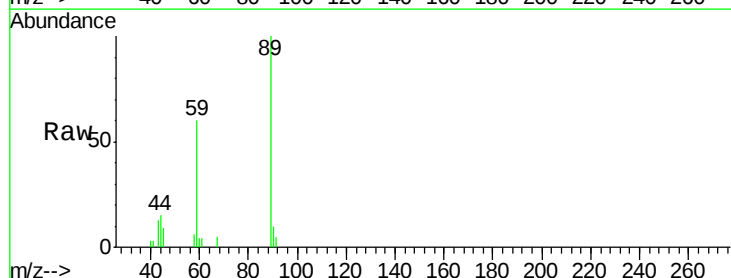
Acq: 27 Jun 2018 15:27

Tgt Ion: 59 Resp: 5646

Ion Ratio Lower Upper

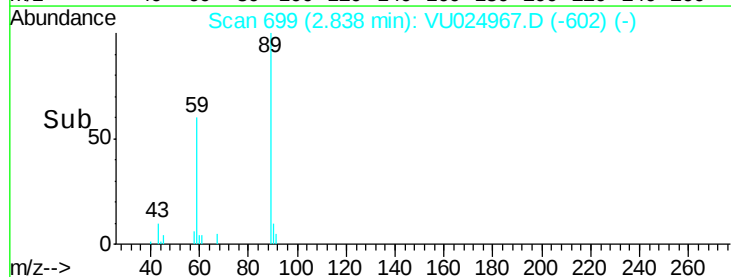
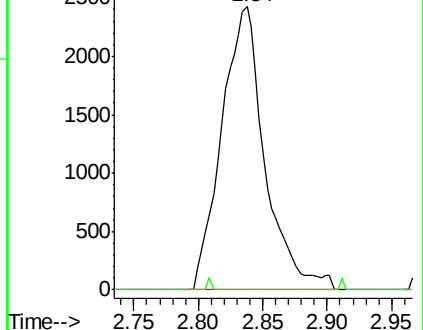
59 100

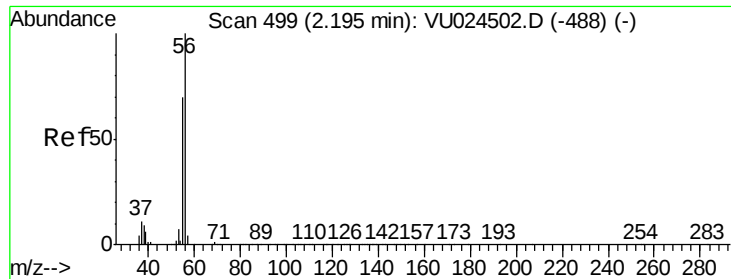
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

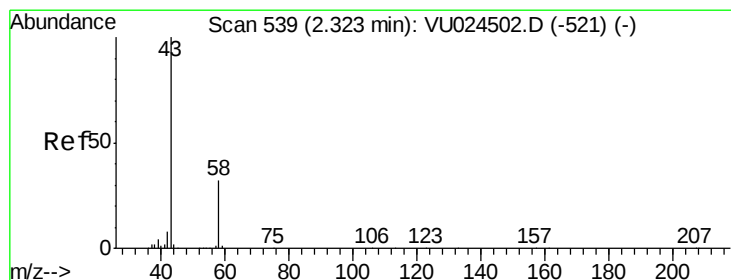
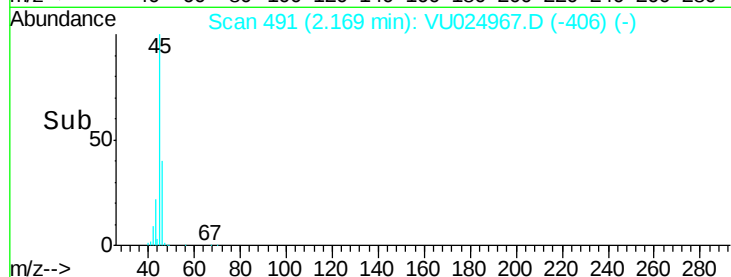
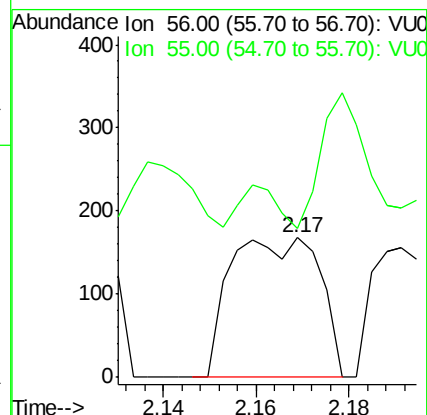
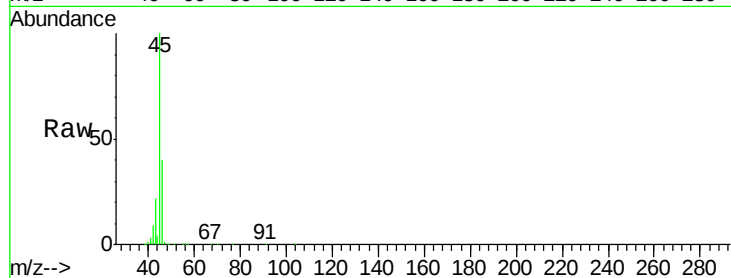




#13
Acrolein
Concen: 0.453 ug/l
RT: 2.17 min Scan# 491
Delta R.T. -0.03 min
Lab File: VU024967.D
Acq: 27 Jun 2018 15:27

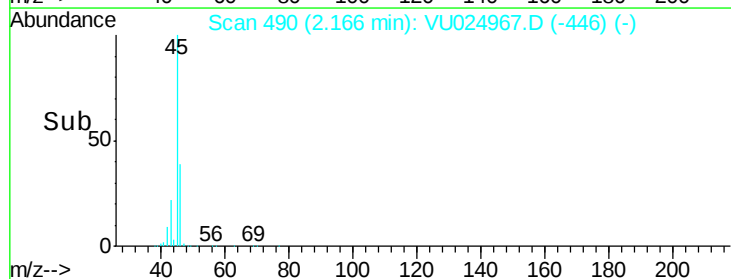
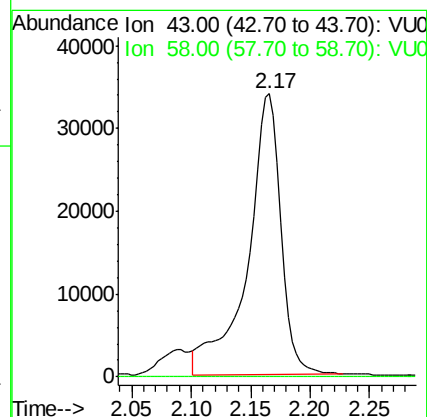
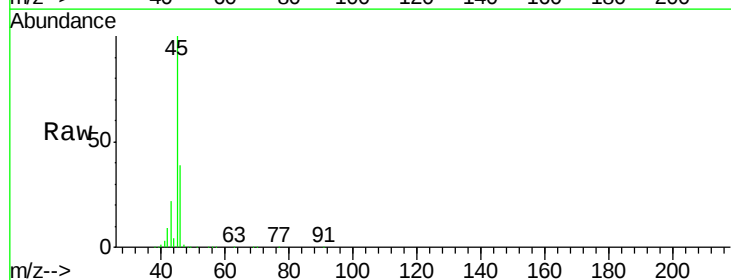
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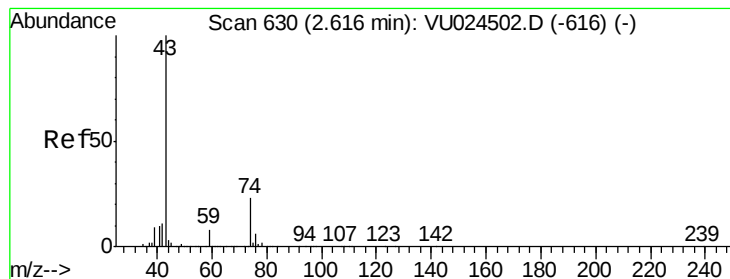
Tgt Ion: 56 Resp: 222
Ion Ratio Lower Upper
56 100
55 50.9 58.4 87.6#



#16
Acetone
Concen: 31.834 ug/l
RT: 2.17 min Scan# 490
Delta R.T. -0.16 min
Lab File: VU024967.D
Acq: 27 Jun 2018 15:27

Tgt Ion: 43 Resp: 65626
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#





#18

Methyl Acetate

Concen: 0.367 ug/l

RT: 2.63 min Scan# 634

Delta R.T. 0.01 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

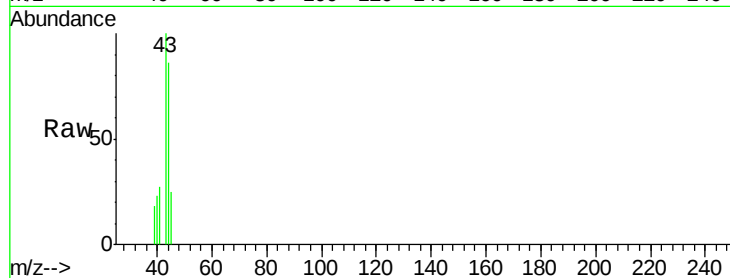
WP021SB476-31-33-180619ME

Tgt Ion: 43 Resp: 1623

Ion Ratio Lower Upper

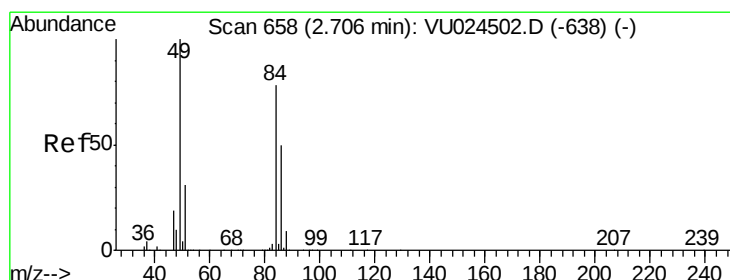
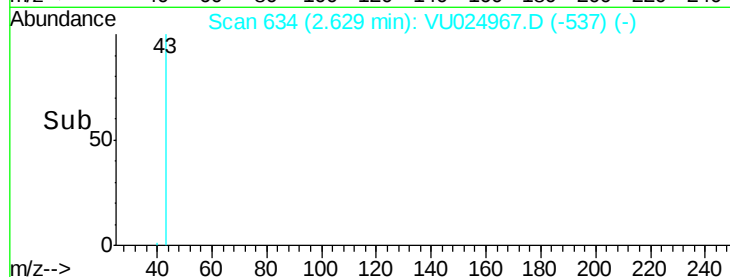
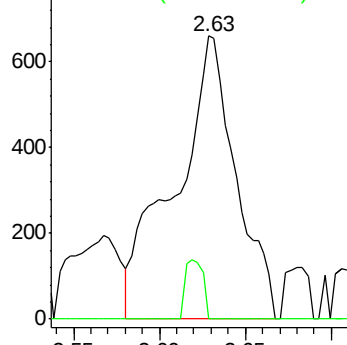
43 100

74 6.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#20

Methylene Chloride

Concen: 0.517 ug/l

RT: 2.69 min Scan# 654

Delta R.T. -0.01 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Tgt Ion: 84 Resp: 1673

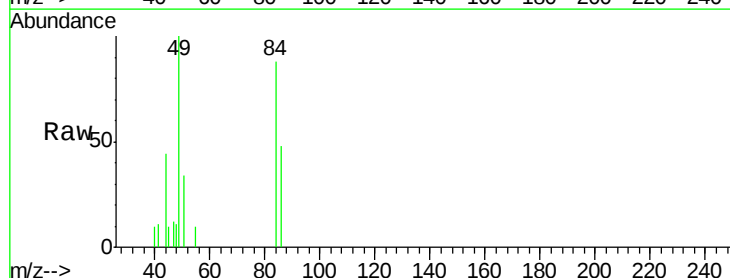
Ion Ratio Lower Upper

84 100

49 113.2 103.8 155.8

51 39.0 32.0 48.0

86 54.5 51.6 77.4

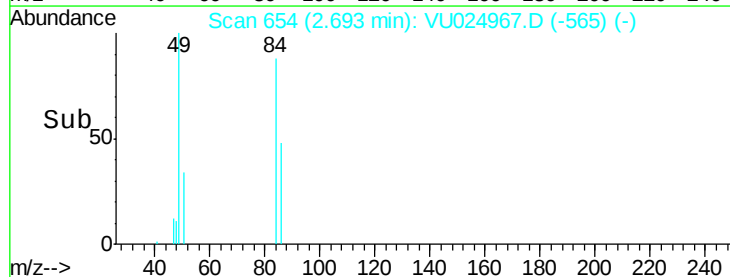
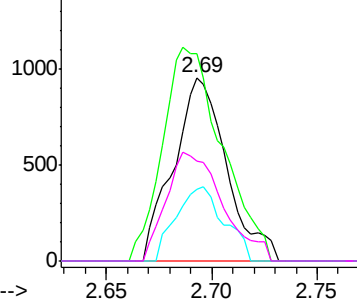


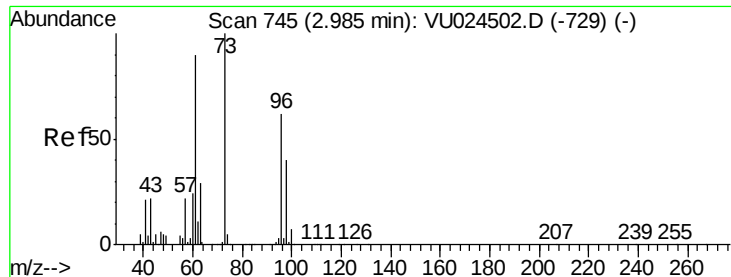
Abundance Ion 83.90 (83.60 to 84.60): VU0

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





#21

trans-1,2-Dichloroethene

Concen: 0.726 ug/l

RT: 2.97 min Scan# 740

Delta R.T. -0.02 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

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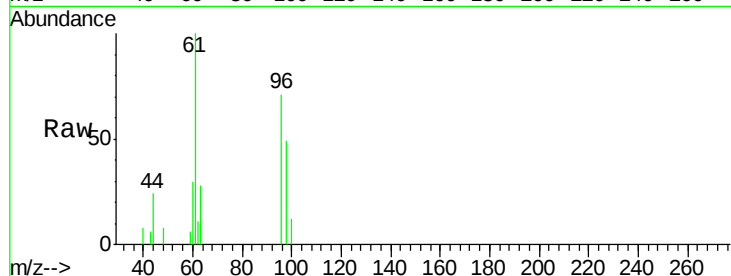
Tgt Ion: 96 Resp: 2141

Ion Ratio Lower Upper

96 100

61 141.5 119.4 179.0

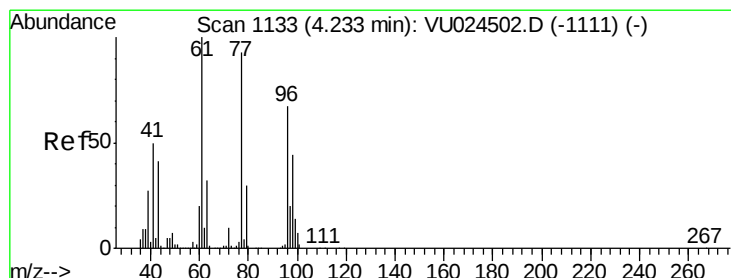
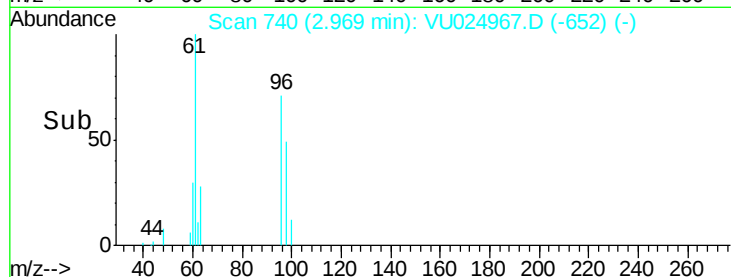
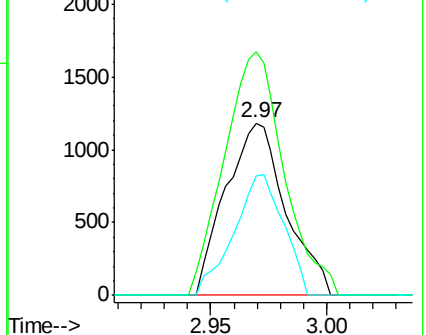
98 69.5 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#27

cis-1,2-Dichloroethene

Concen: 5.185 ug/l

RT: 4.22 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

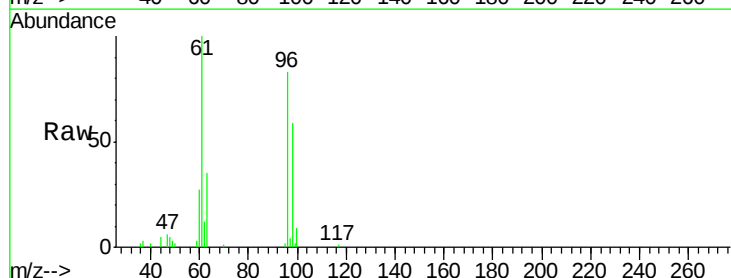
Tgt Ion: 96 Resp: 17568

Ion Ratio Lower Upper

96 100

61 130.9 0.0 306.6

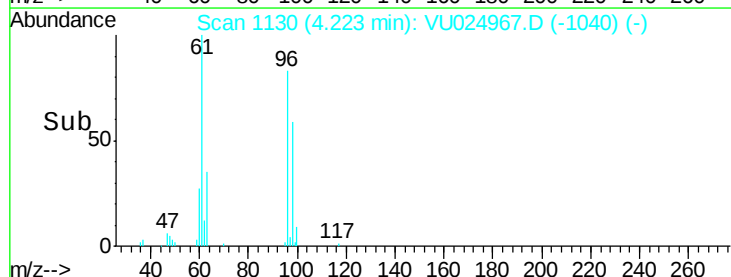
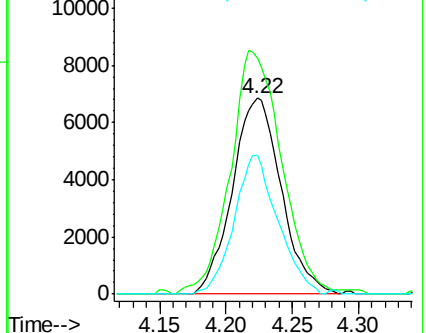
98 63.5 0.0 128.8

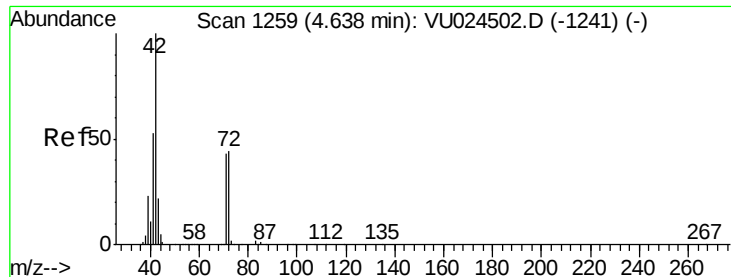


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#29

Tetrahydrofuran

Concen: 0.211 ug/l

RT: 4.68 min Scan# 1271

Delta R.T. 0.04 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

WP021SB476-31-33-180619ME

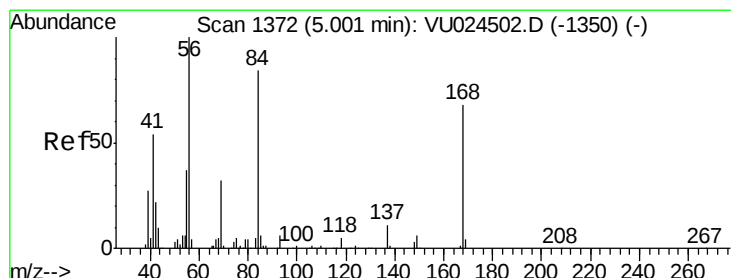
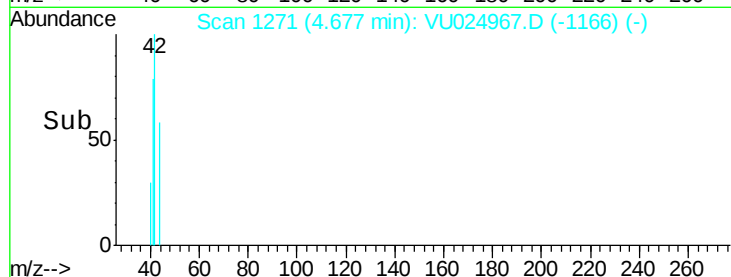
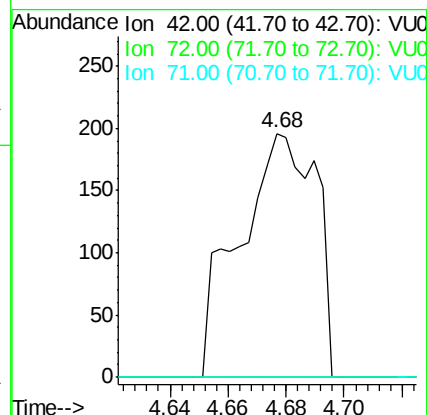
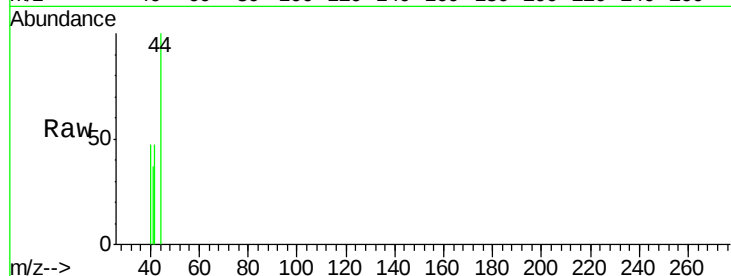
Tgt Ion: 42 Resp: 362

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

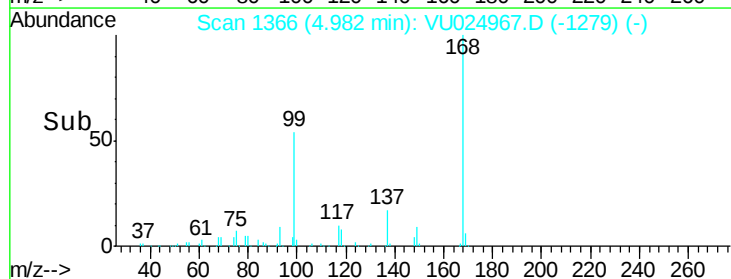
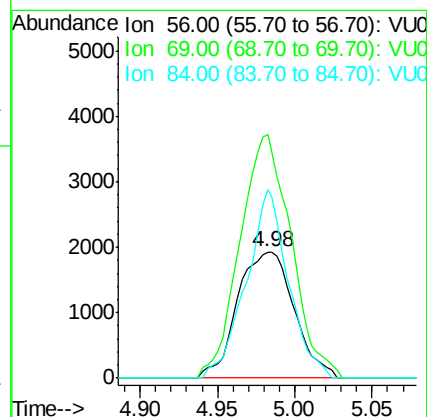
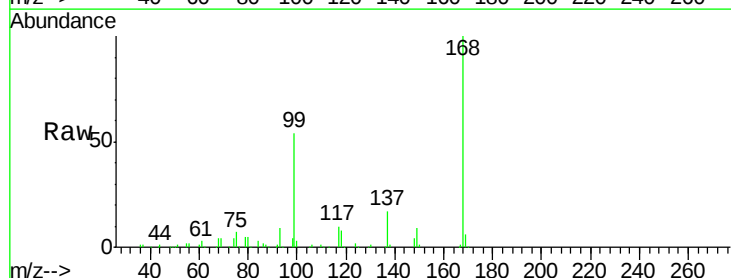
Tgt Ion: 56 Resp: 4879

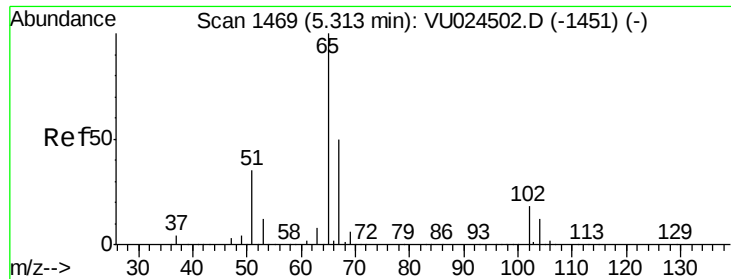
Ion Ratio Lower Upper

56 100

69 193.3 24.8 37.2#

84 149.6 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: 45.334 ug/l

RT: 5.31 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

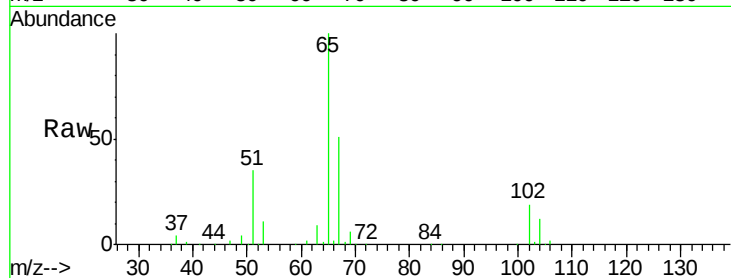
WP021SB476-31-33-180619ME

Tgt Ion: 65 Resp: 173939

Ion Ratio Lower Upper

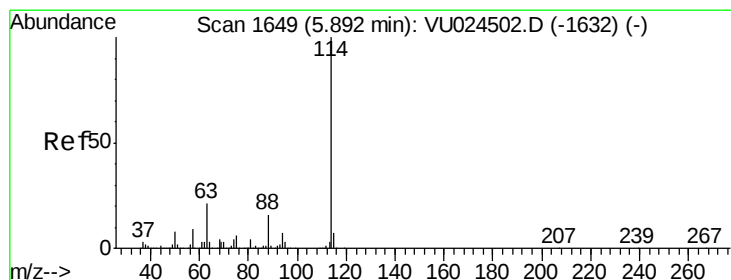
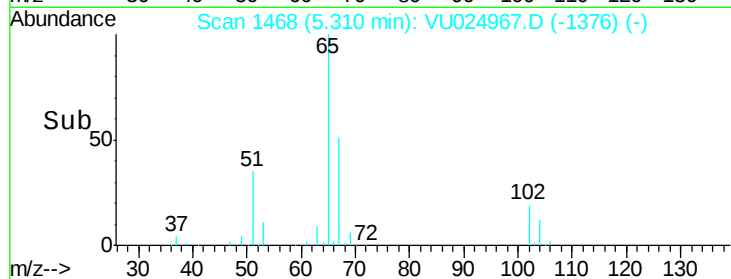
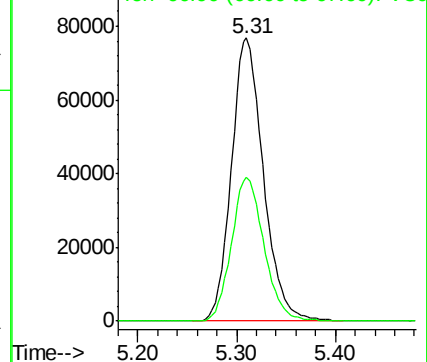
65 100

67 51.5 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# 1647

Delta R.T. -0.01 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

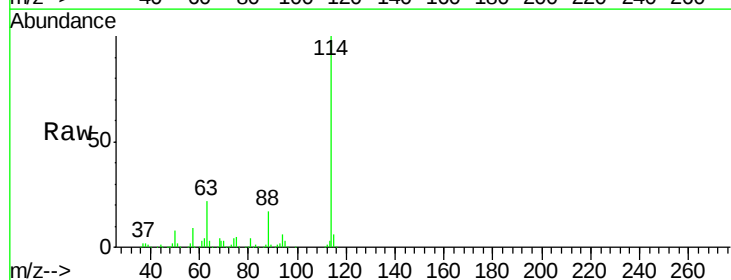
Tgt Ion: 114 Resp: 351706

Ion Ratio Lower Upper

114 100

63 21.6 0.0 45.4

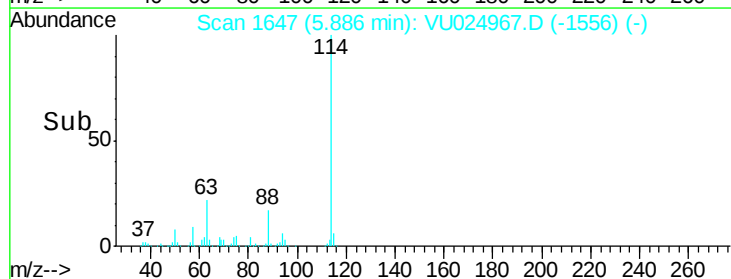
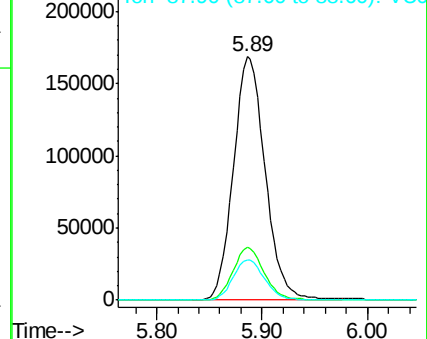
88 16.6 0.0 31.0

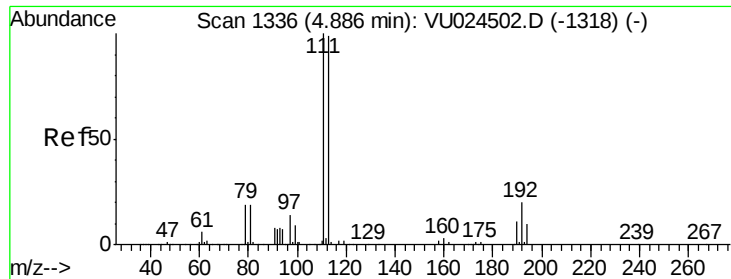


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0





#35

Dibromofluoromethane

Concen: 46.737 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

WP021SB476-31-33-180619ME

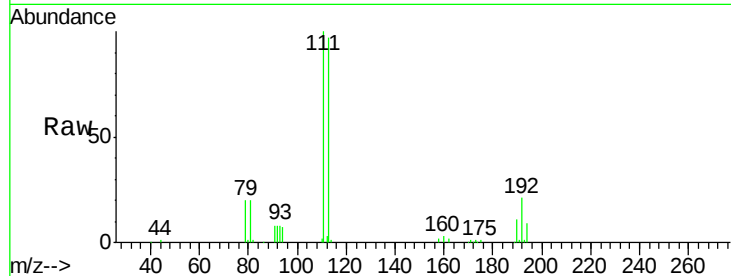
Tgt Ion:113 Resp: 136419

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

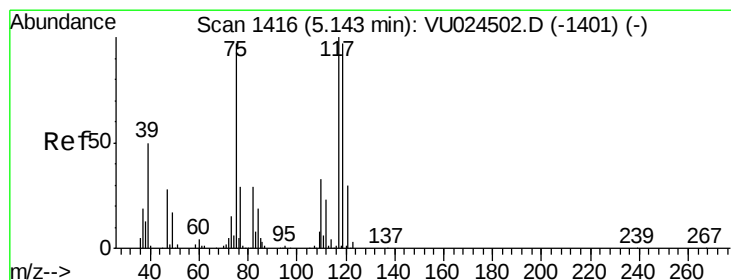
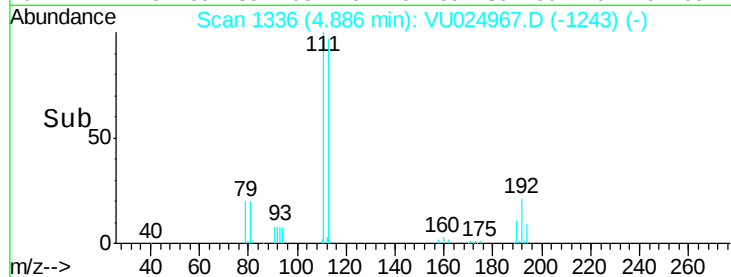
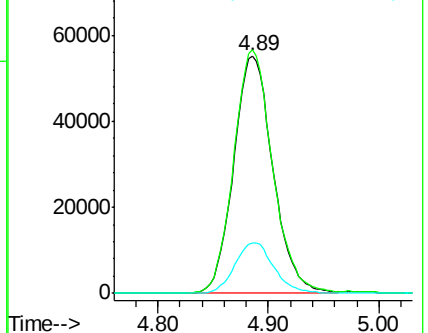
192 21.2 16.2 24.4



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: 4.208 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

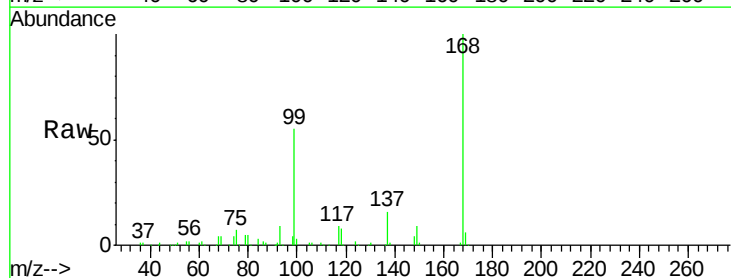
Tgt Ion: 75 Resp: 17390

Ion Ratio Lower Upper

75 100

110 8.0 17.0 50.9#

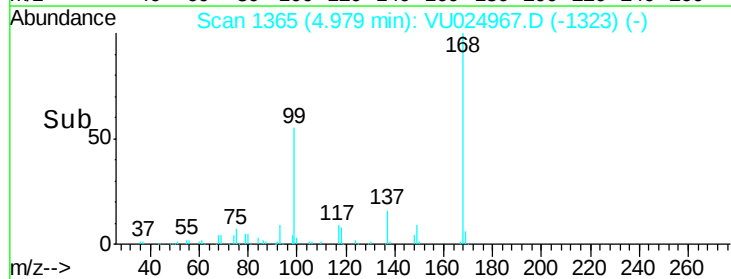
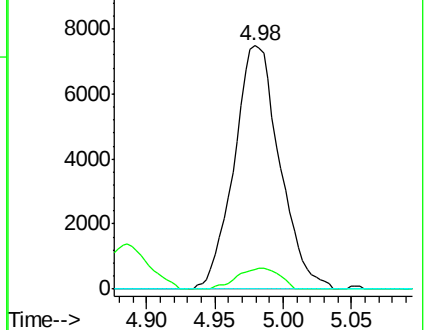
77 0.0 24.2 36.4#

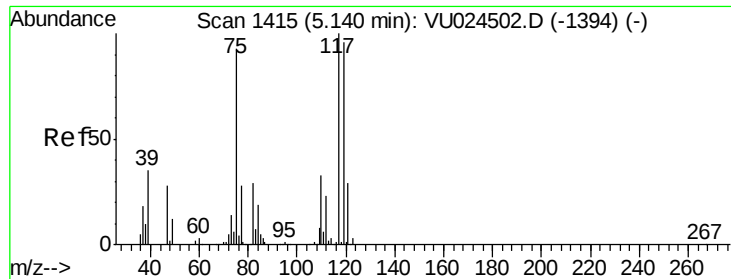


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.088 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

WP021SB476-31-33-180619ME

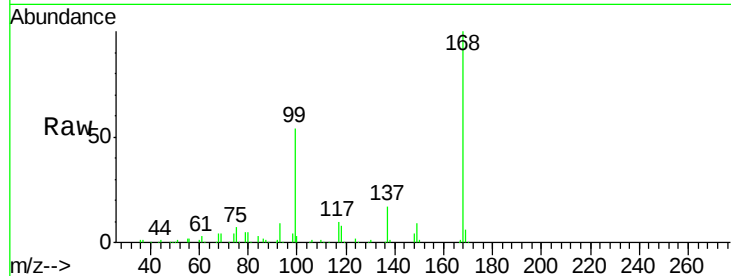
Tgt Ion:117 Resp: 23123

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

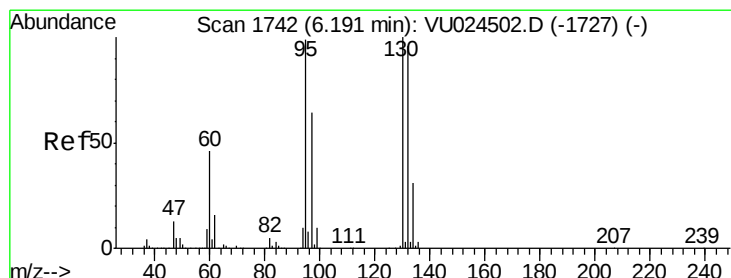
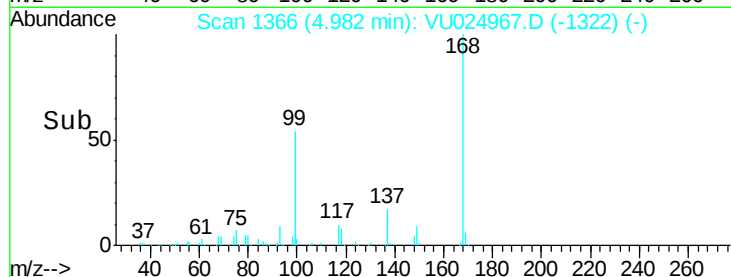
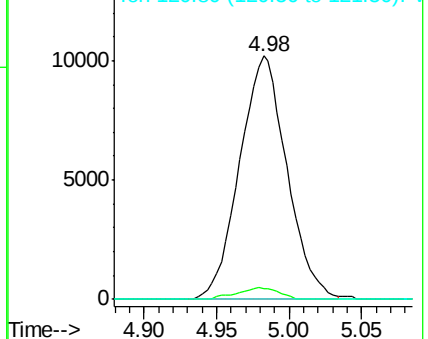
121 0.0 23.7 35.5#



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



#44

Trichloroethene

Concen: 0.349 ug/l

RT: 6.18 min Scan# 1740

Delta R.T. -0.01 min

Lab File: VU024967.D

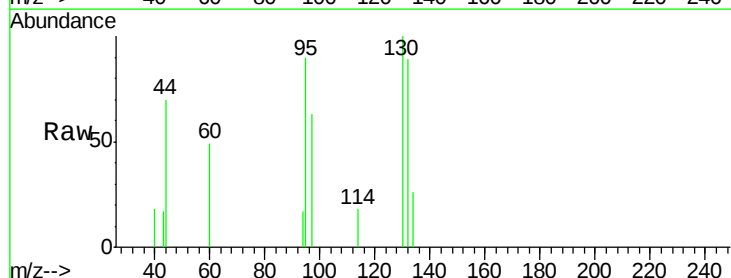
Acq: 27 Jun 2018 15:27

Tgt Ion:130 Resp: 1170

Ion Ratio Lower Upper

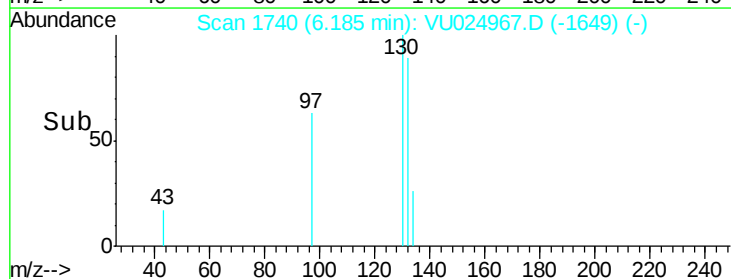
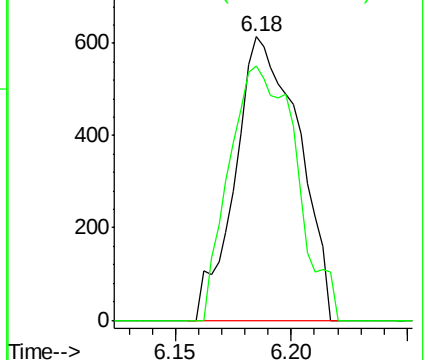
130 100

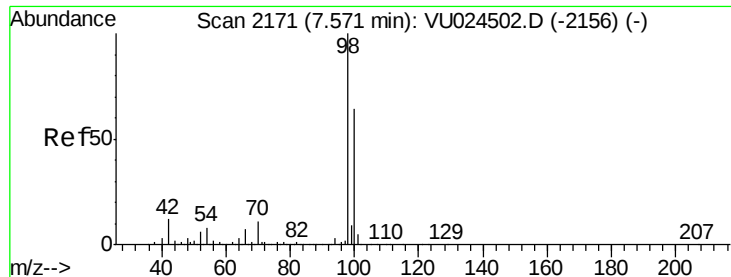
95 89.9 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

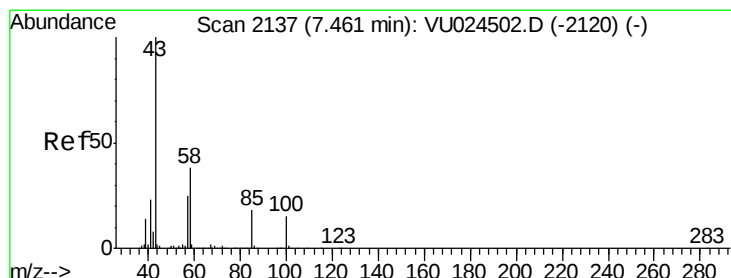
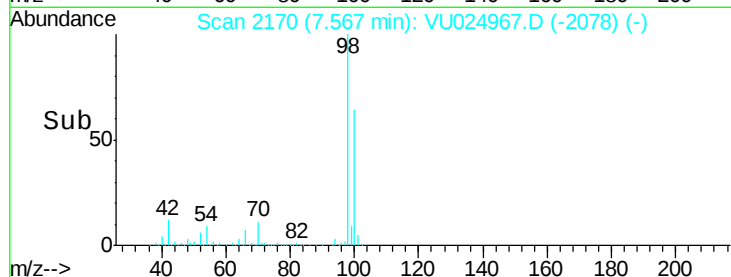
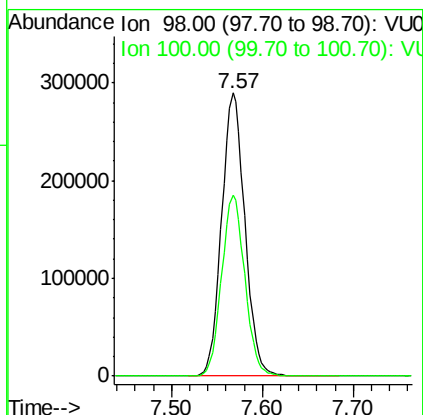
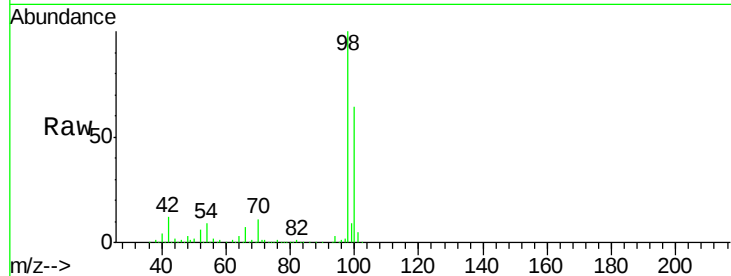




#50
Toluene-d8
Concen: 48.418 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024967.D
Acq: 27 Jun 2018 15:27

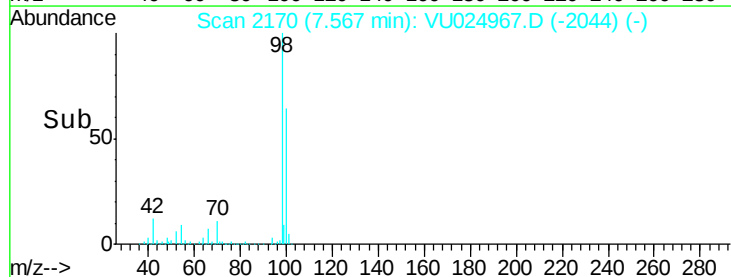
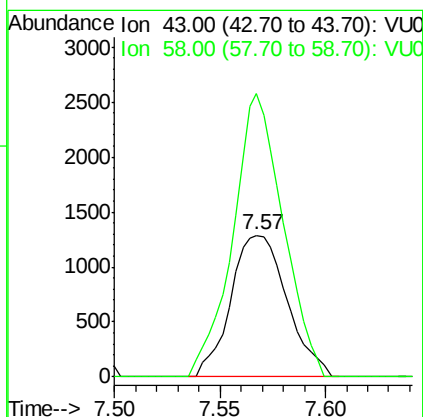
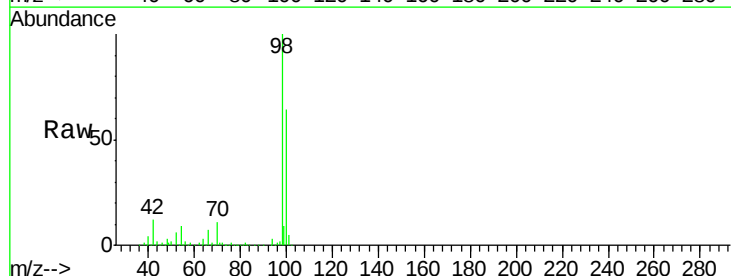
Instrument :
MSVOA_U
ClientSampleId :
WP021SB476-31-33-180619ME

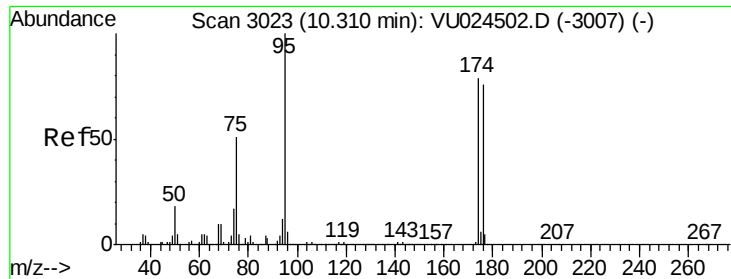
Tgt Ion: 98 Resp: 515505
Ion Ratio Lower Upper
98 100
100 63.6 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.489 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.11 min
Lab File: VU024967.D
Acq: 27 Jun 2018 15:27

Tgt Ion: 43 Resp: 2391
Ion Ratio Lower Upper
43 100
58 178.1 30.0 45.0#

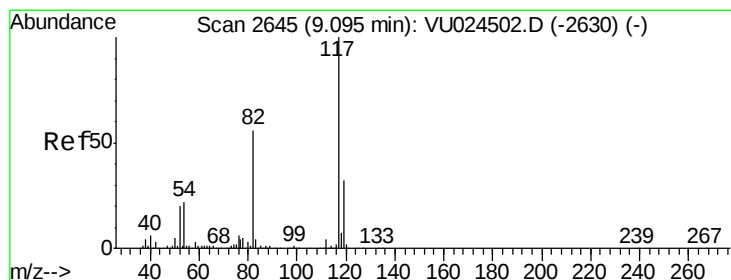
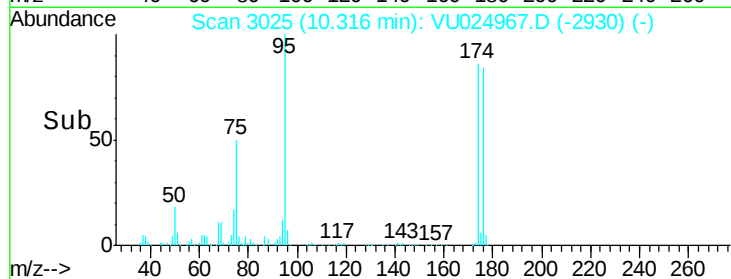
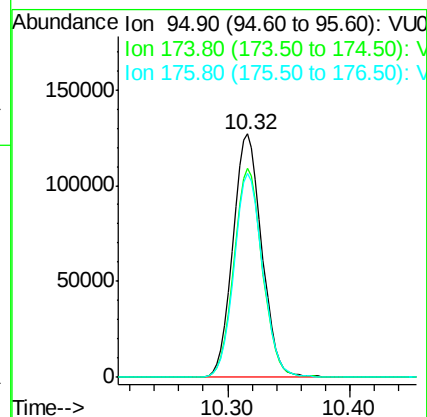
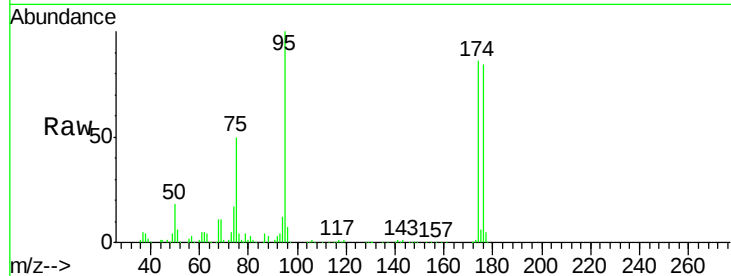




#62
4-Bromofluorobenzene
Concen: 49.669 ug/l
RT: 10.32 min Scan# 3025
Delta R.T. 0.01 min
Lab File: VU024967.D
Acq: 27 Jun 2018 15:27

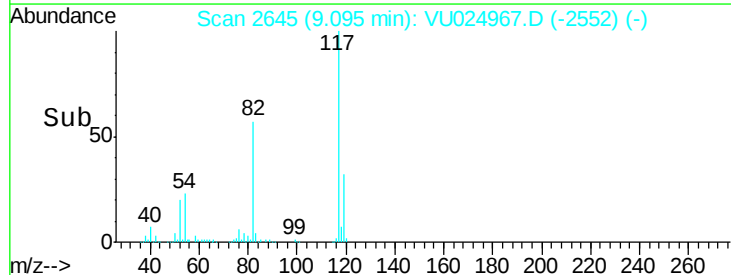
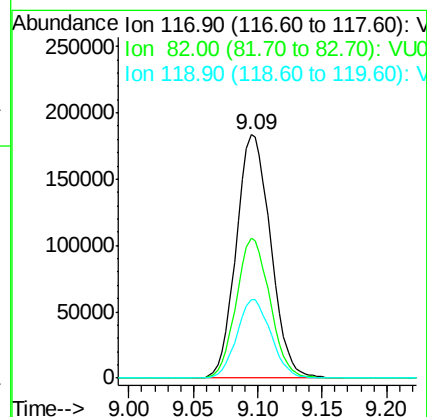
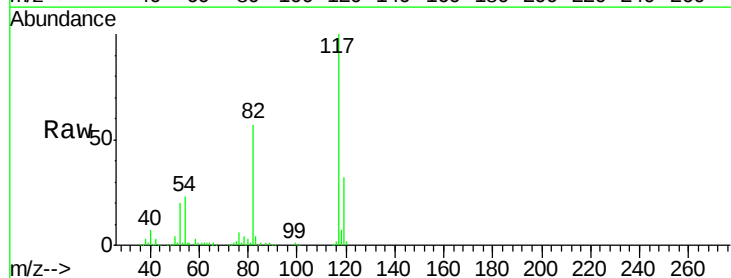
Instrument :
MSVOA_U
ClientSampleId :
WP021SB476-31-33-180619ME

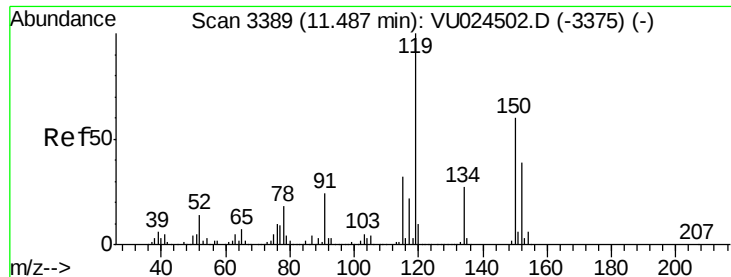
Tgt Ion: 95 Resp: 209962
Ion Ratio Lower Upper
95 100
174 84.8 0.0 165.8
176 83.0 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024967.D
Acq: 27 Jun 2018 15:27

Tgt Ion: 117 Resp: 340673
Ion Ratio Lower Upper
117 100
82 57.2 44.3 66.5
119 32.4 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

WP021SB476-31-33-180619ME

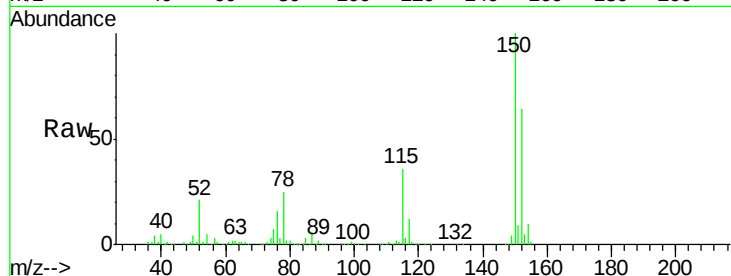
Tgt Ion:152 Resp: 195367

Ion Ratio Lower Upper

152 100

115 57.5 43.0 129.0

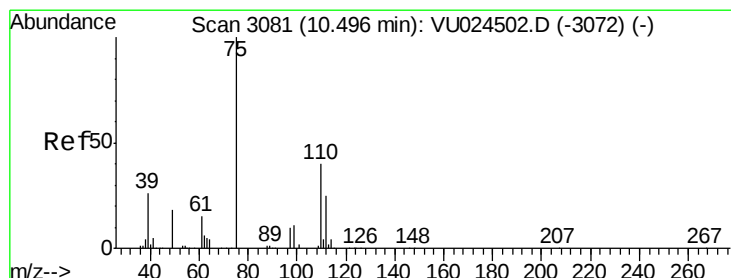
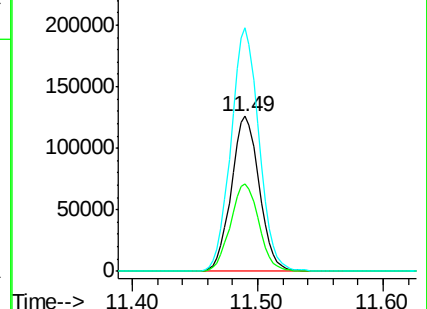
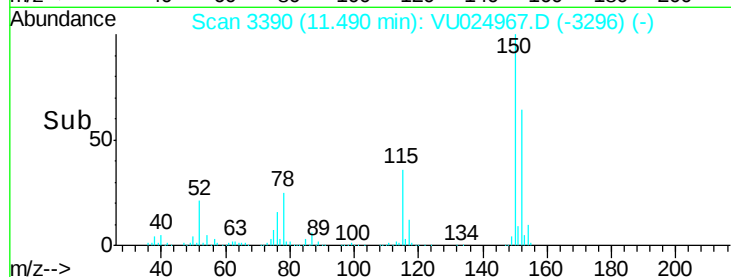
150 156.6 0.0 354.0



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: 24.849 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU024967.D

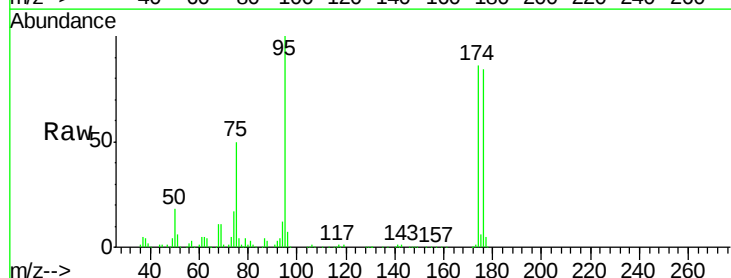
Acq: 27 Jun 2018 15:27

Tgt Ion: 75 Resp: 106883

Ion Ratio Lower Upper

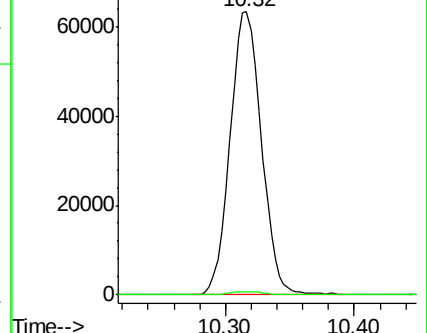
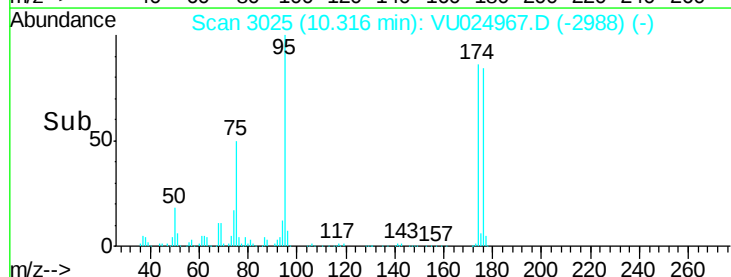
75 100

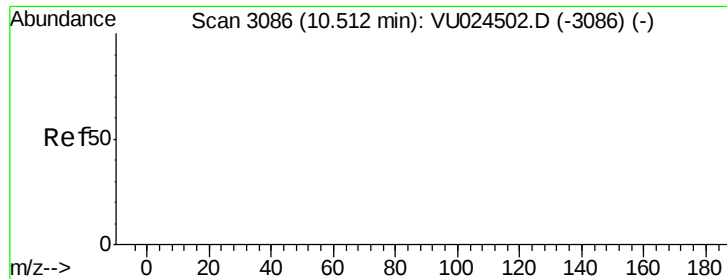
77 0.8 20.9 62.7#



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: 57.511 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.20 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

WP021SB476-31-33-180619ME

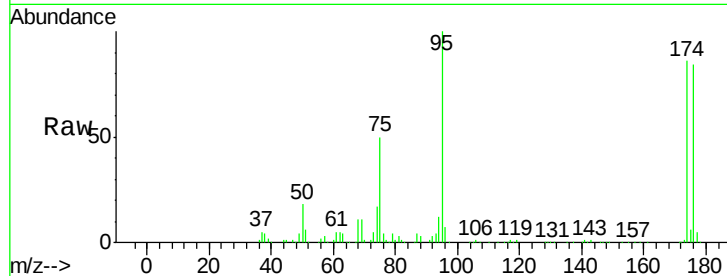
Tgt Ion: 75 Resp: 106883

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

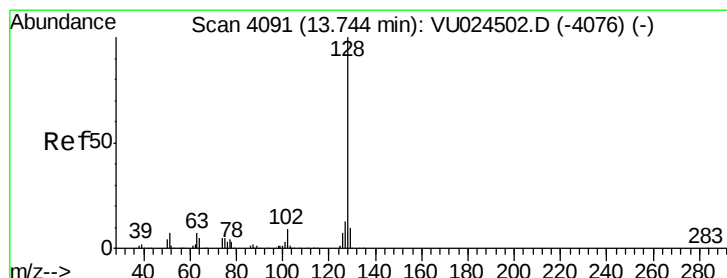
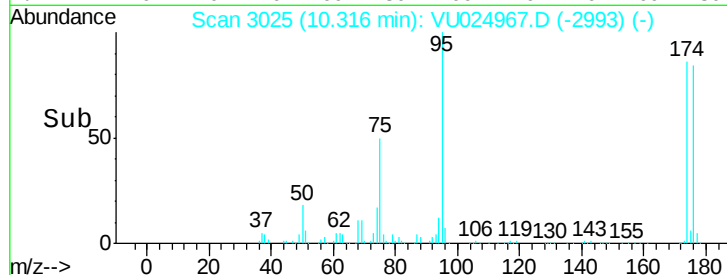
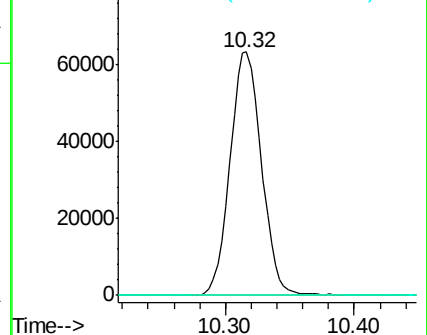
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024967.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024967.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024967.D (-2993) (-)



#95

Naphthalene

Concen: 0.727 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024967.D

Acq: 27 Jun 2018 15:27

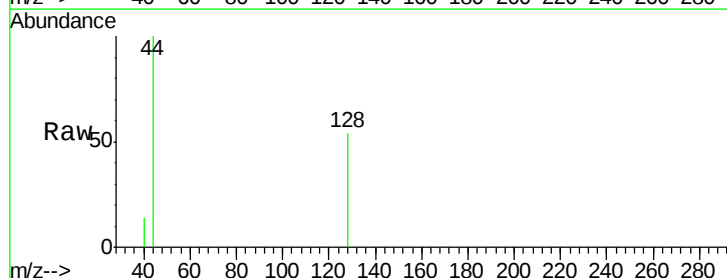
Tgt Ion: 128 Resp: 691

Ion Ratio Lower Upper

128 100

127 6.2 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024967.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024967.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024967.D (-3997) (-)

