

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062818\
 Data File : VU025046.D
 Acq On : 29 Jun 2018 02:23
 Operator : MD/SY
 Sample : J3671-23ME
 Misc : 5.50g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB486-27-29-180621ME

Quant Time: Jun 29 05:15:58 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

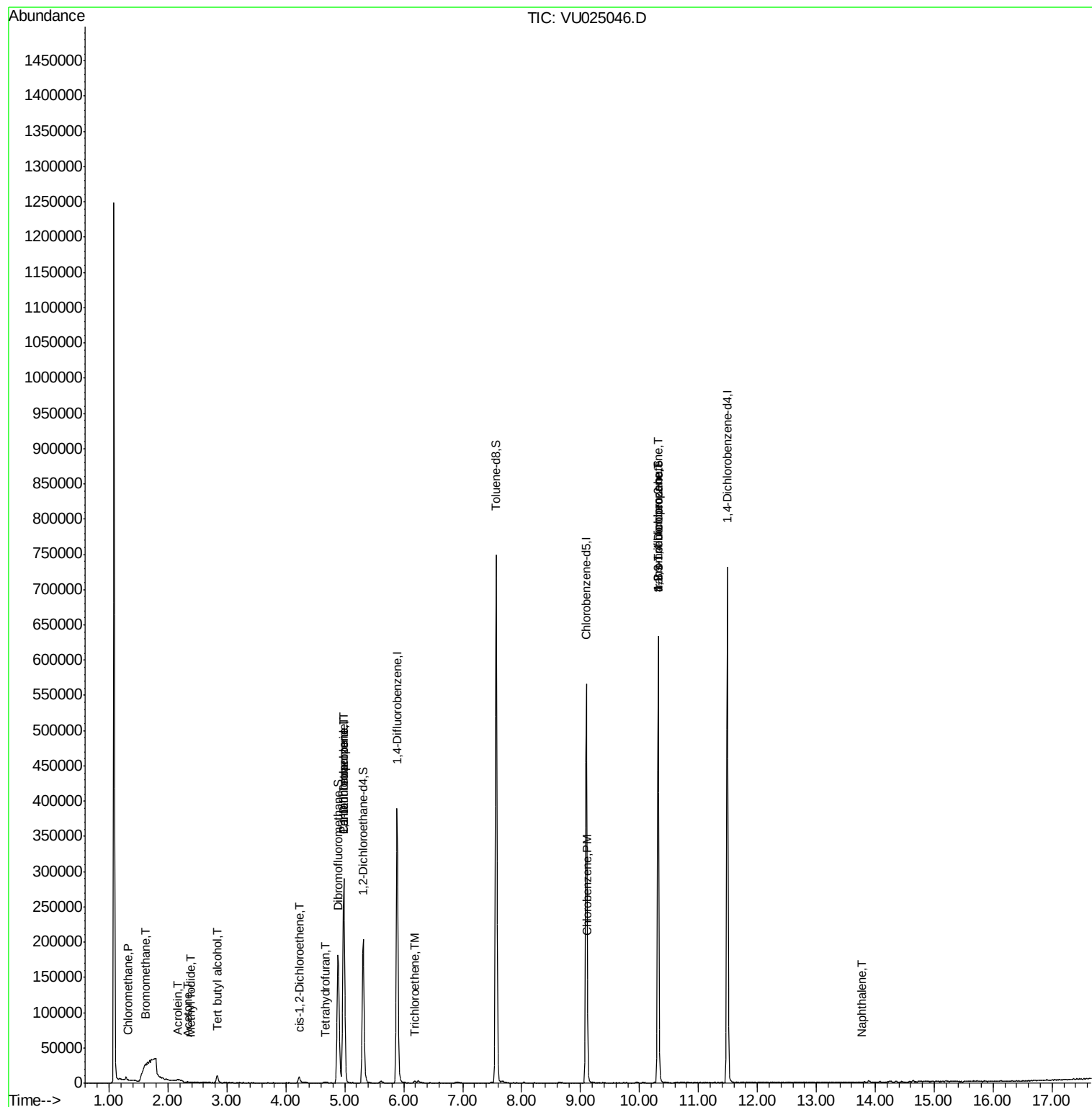
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	232700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	355228	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.10	117	342918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	195610	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	174719	45.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.98%	
35) Dibromofluoromethane	4.89	113	134593	45.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.30%	
50) Toluene-d8	7.57	98	509425	47.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.74%	
62) 4-Bromofluorobenzene	10.32	95	211253	49.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.96%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	733	0.246 ug/l	#	66
5) Bromomethane	1.60	94	923	0.622 ug/l		87
6) Chloroethane	1.69	64	257	Below Cal	#	54
8) Diethyl Ether	1.85	74	66	Below Cal		97
10) Methyl Iodide	2.39	142	594	5.505 ug/l	#	85
11) Tert butyl alcohol	2.84	59	6409	6.937 ug/l	#	73
13) Acrolein	2.18	56	185	0.381 ug/l	#	74
16) Acetone	2.34	43	567	0.278 ug/l	#	44
27) cis-1,2-Dichloroethene	4.23	96	4649	1.386 ug/l		95
29) Tetrahydrofuran	4.66	42	752	0.443 ug/l	#	60
31) Cyclohexane	4.98	56	4721	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	17581	4.212 ug/l	#	51
38) Carbon Tetrachloride	4.98	117	22772	4.961 ug/l	#	16
44) Trichloroethene	6.19	130	815	0.241 ug/l		88
65) Chlorobenzene	9.13	112	2417	0.276 ug/l		98
76) 1,2,3-Trichloropropane	10.32	75	109291	25.377 ug/l	#	35
81) trans-1,4-Dichloro-2-buten	10.32	75	109291	58.734 ug/l	#	100
95) Naphthalene	13.77	128	174	0.691 ug/l	#	69

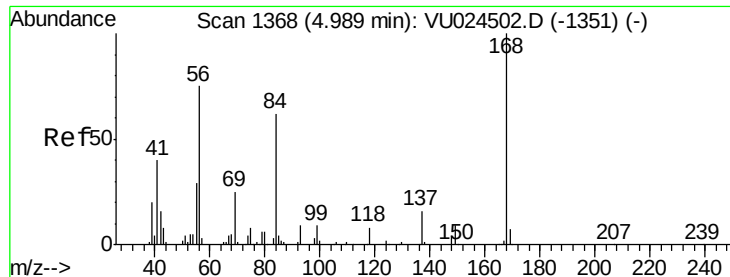
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

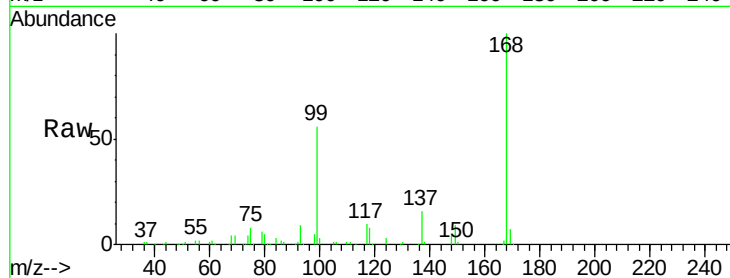
WP021SB486-27-29-180621ME

Tgt Ion:168 Resp: 232700

Ion Ratio Lower Upper

168 100

99 56.3 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)

4.98

100000

80000

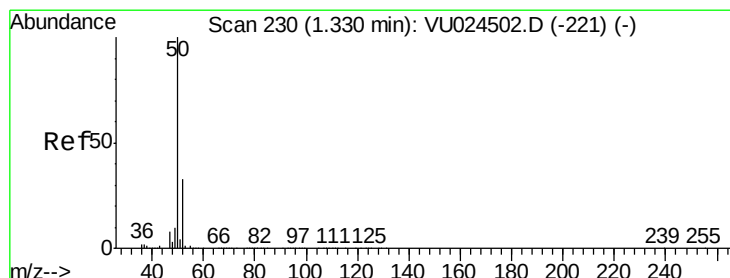
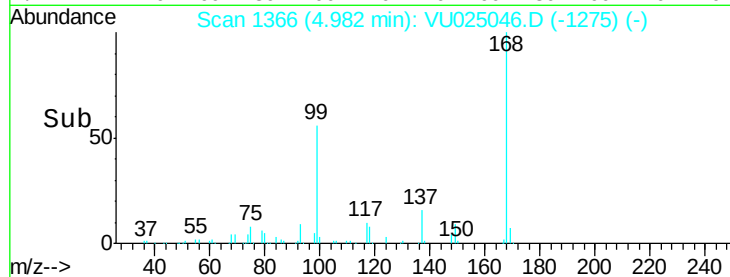
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.246 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU025046.D

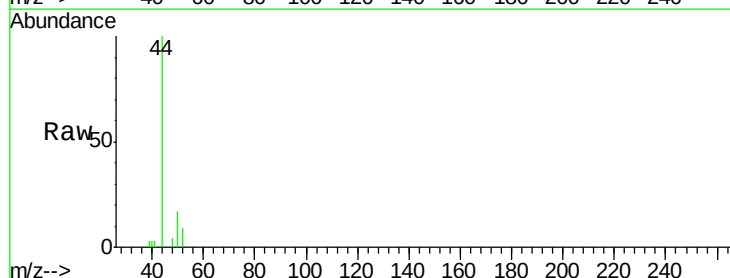
Acq: 29 Jun 2018 02:23

Tgt Ion: 50 Resp: 733

Ion Ratio Lower Upper

50 100

52 52.0 26.4 39.6#



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

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)

1.32

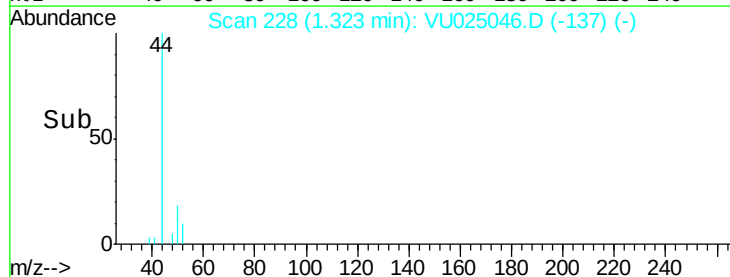
600

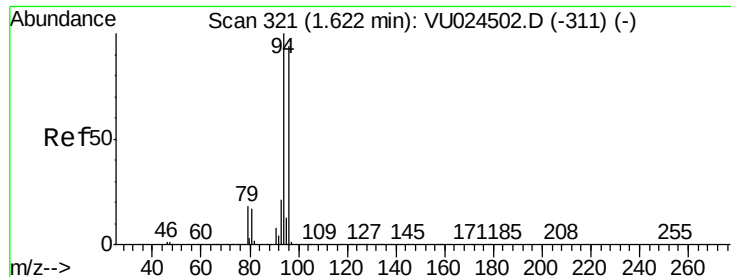
400

200

0

Time-->





#5

Bromomethane

Concen: 0.622 ug/l

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

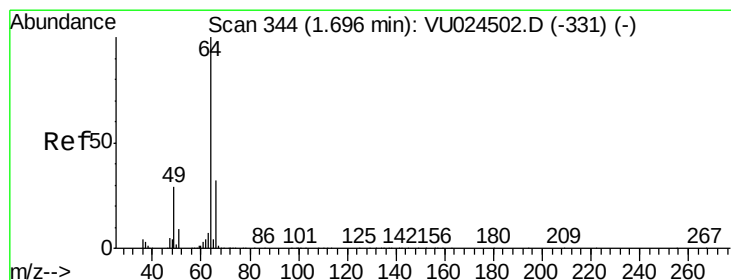
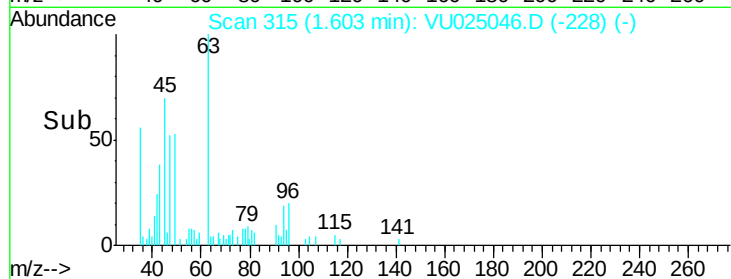
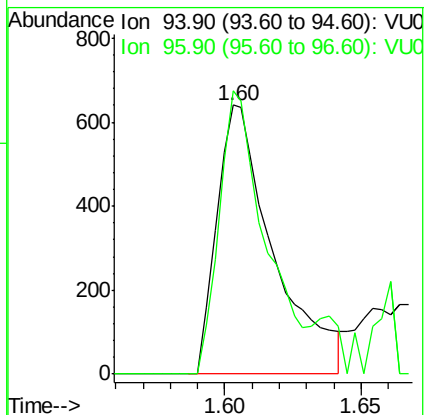
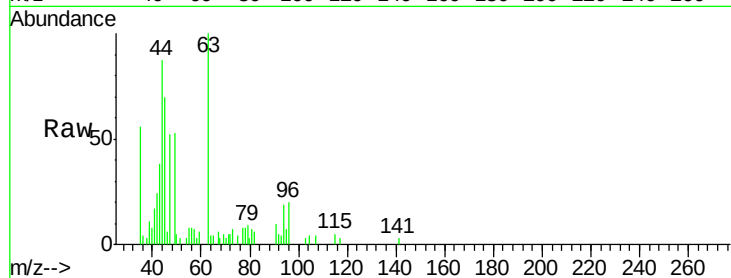
WP021SB486-27-29-180621ME

Tgt Ion: 94 Resp: 923

Ion Ratio Lower Upper

94 100

96 105.3 74.5 111.7



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU025046.D

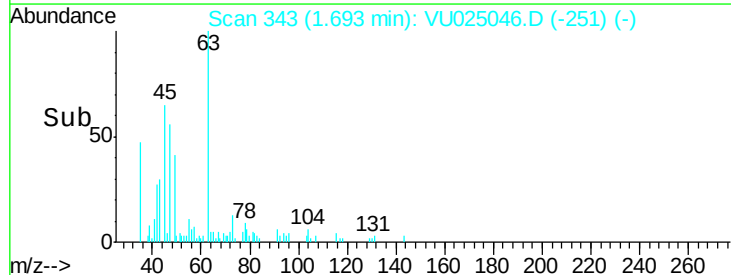
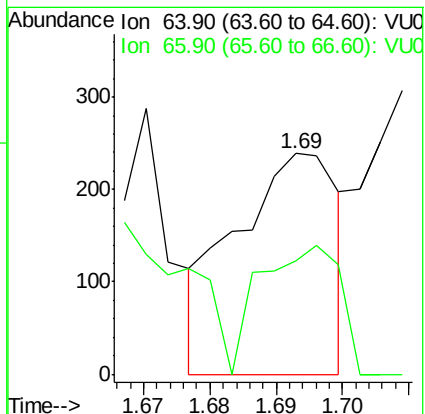
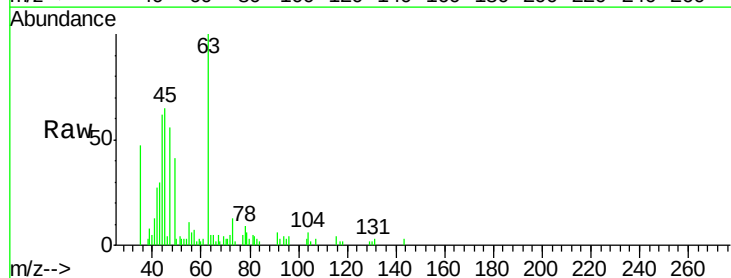
Acq: 29 Jun 2018 02:23

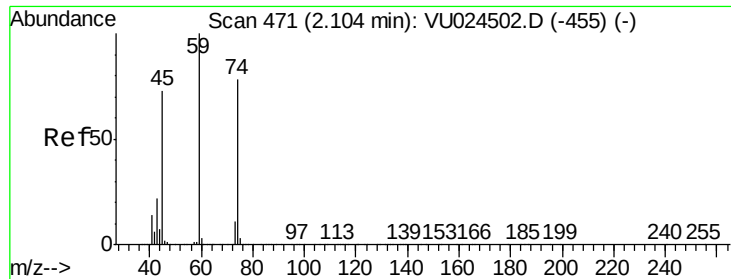
Tgt Ion: 64 Resp: 257

Ion Ratio Lower Upper

64 100

66 6.5 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 1.85 min Scan# 393

Delta R.T. -0.25 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

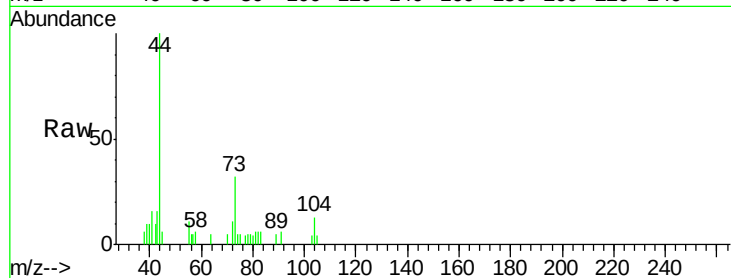
WP021SB486-27-29-180621ME

Tgt Ion: 74 Resp: 66

Ion Ratio Lower Upper

74 100

45 113.6 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

200

150

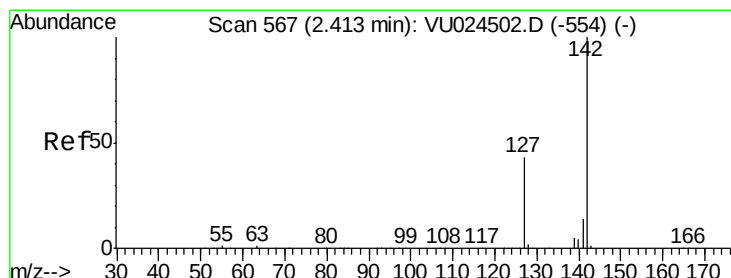
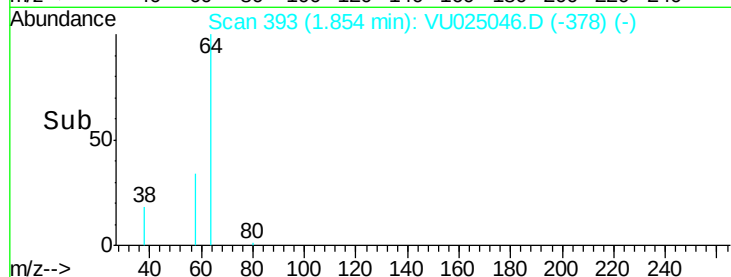
100

50

0

1.84 1.85 1.86

Time-->



#10

Methyl Iodide

Concen: 5.505 ug/l

RT: 2.39 min Scan# 560

Delta R.T. -0.02 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

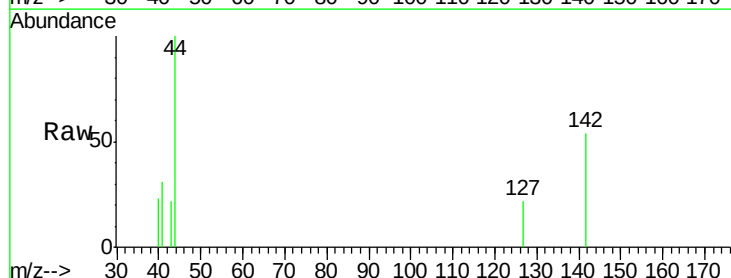
Tgt Ion: 142 Resp: 594

Ion Ratio Lower Upper

142 100

127 39.4 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

500

400

300

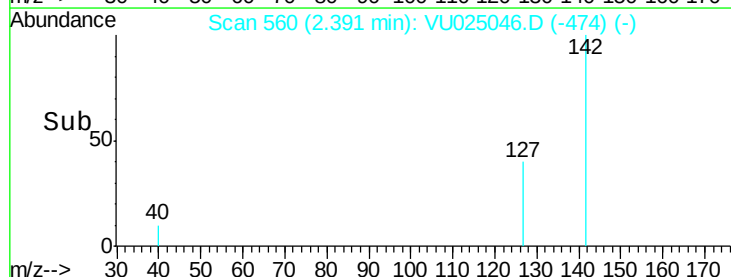
200

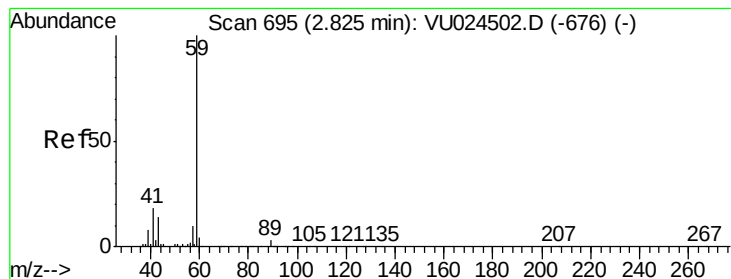
100

0

2.36 2.38 2.40 2.42

Time-->





#11

Tert butyl alcohol

Concen: 6.937 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

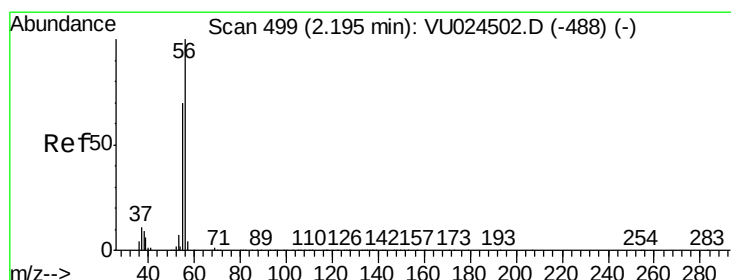
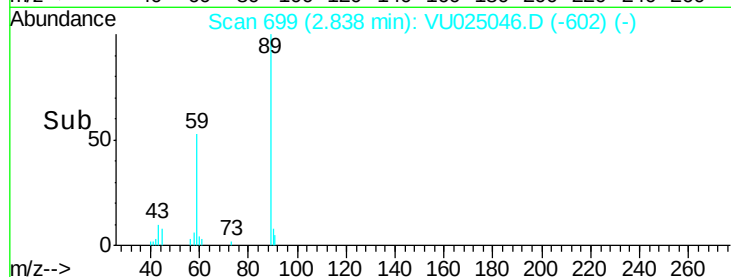
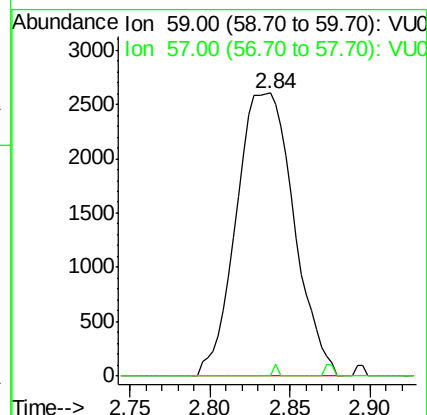
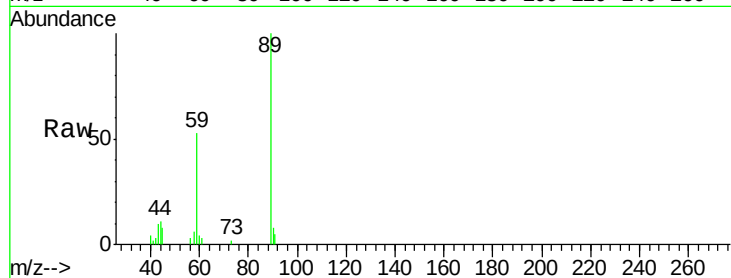
WP021SB486-27-29-180621ME

Tgt Ion: 59 Resp: 6409

Ion Ratio Lower Upper

59 100

57 0.3 8.5 12.7#



#13

Acrolein

Concen: 0.381 ug/l

RT: 2.18 min Scan# 495

Delta R.T. -0.01 min

Lab File: VU025046.D

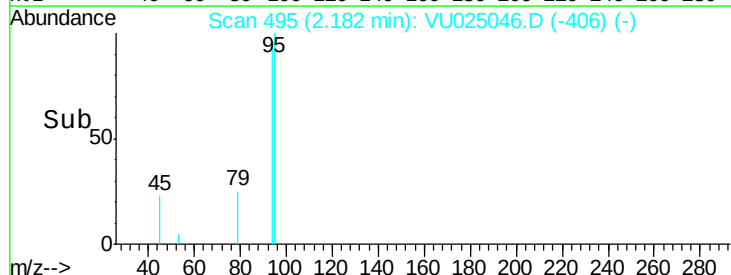
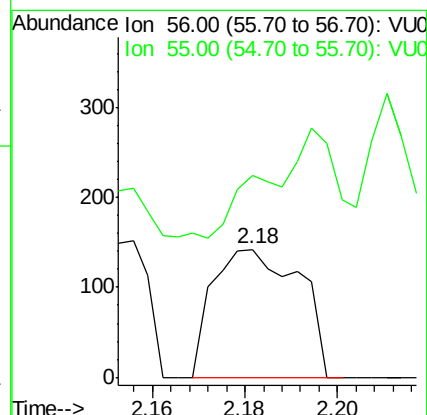
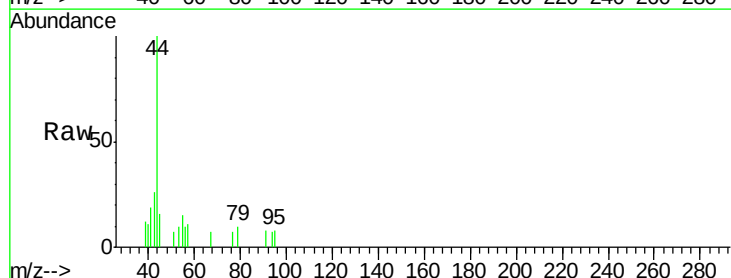
Acq: 29 Jun 2018 02:23

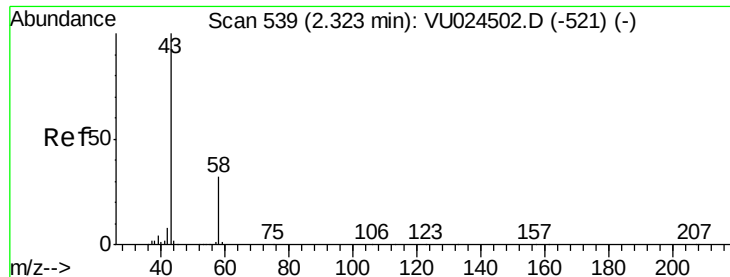
Tgt Ion: 56 Resp: 185

Ion Ratio Lower Upper

56 100

55 94.6 58.4 87.6#





#16

Acetone

Concen: 0.278 ug/l

RT: 2.34 min Scan# 545

Delta R.T. 0.02 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

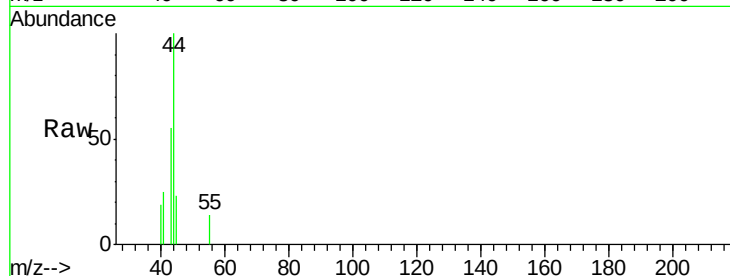
WP021SB486-27-29-180621ME

Tgt Ion: 43 Resp: 567

Ion Ratio Lower Upper

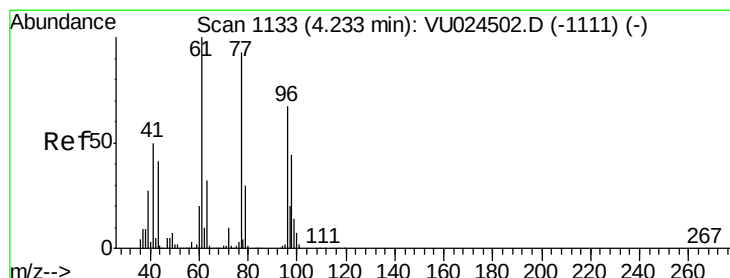
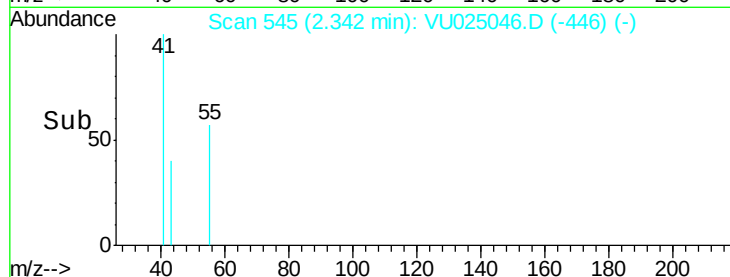
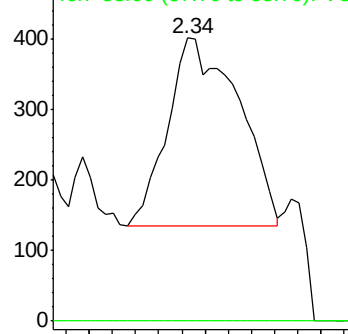
43 100

58 0.0 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 1.386 ug/l

RT: 4.23 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

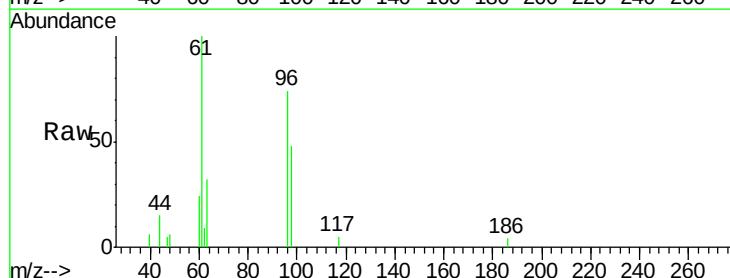
Tgt Ion: 96 Resp: 4649

Ion Ratio Lower Upper

96 100

61 145.9 0.0 306.6

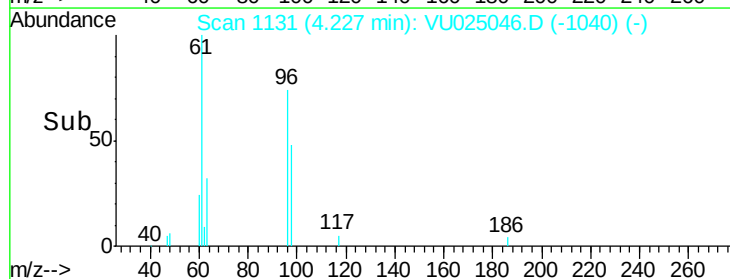
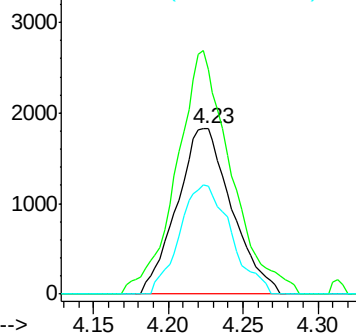
98 61.8 0.0 128.8

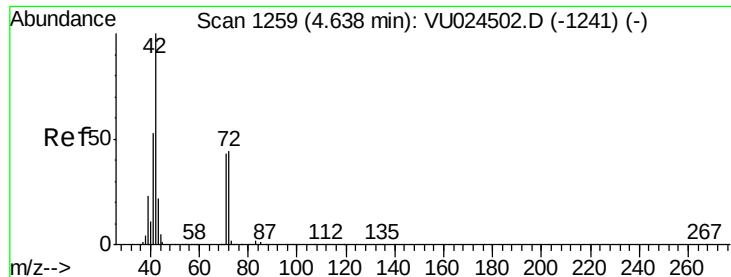


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#29

Tetrahydrofuran

Concen: 0.443 ug/l

RT: 4.66 min Scan# 1266

Delta R.T. 0.02 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

WP021SB486-27-29-180621ME

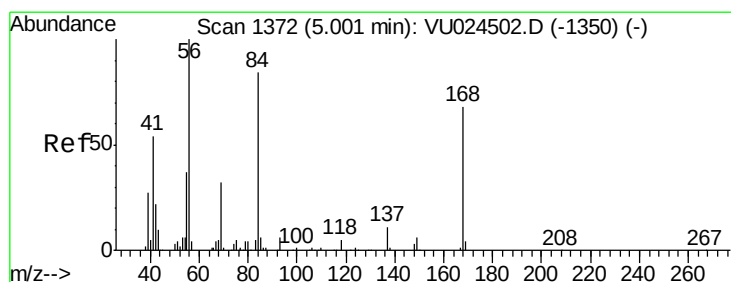
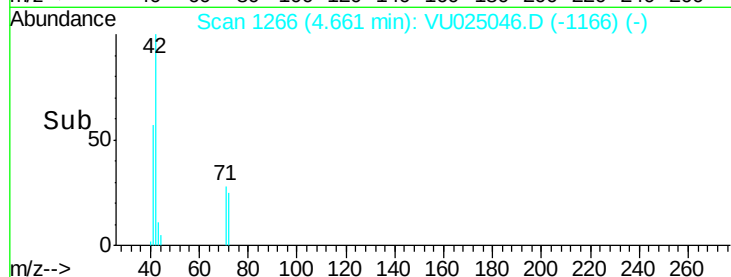
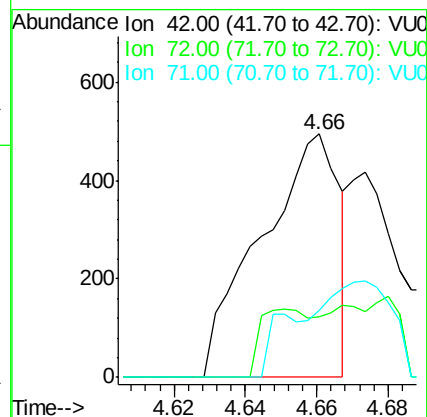
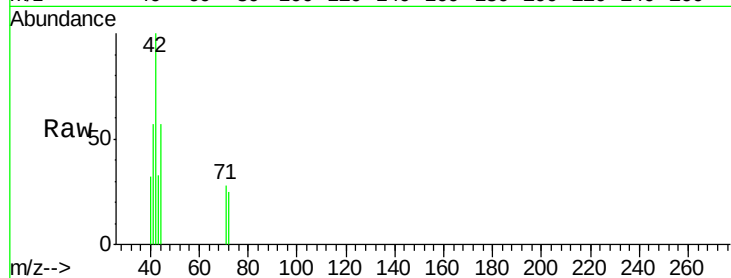
Tgt Ion: 42 Resp: 752

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 33.8 32.2 48.4



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

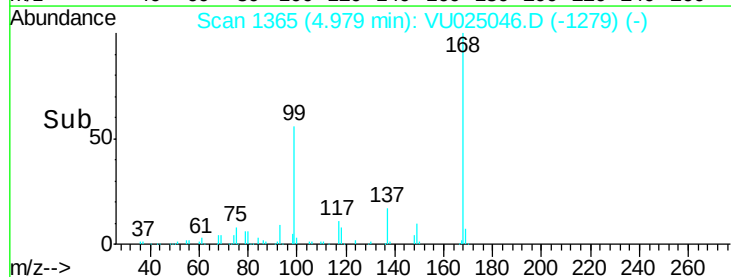
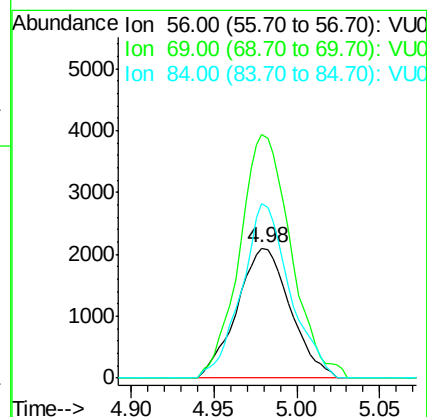
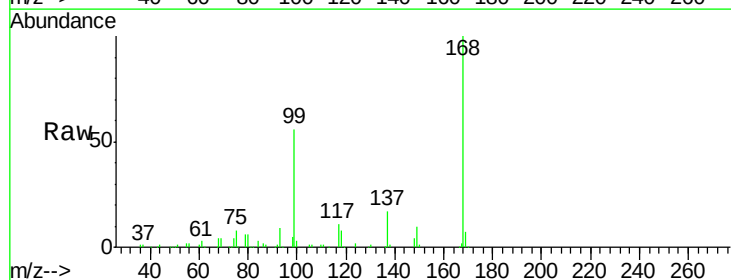
Tgt Ion: 56 Resp: 4721

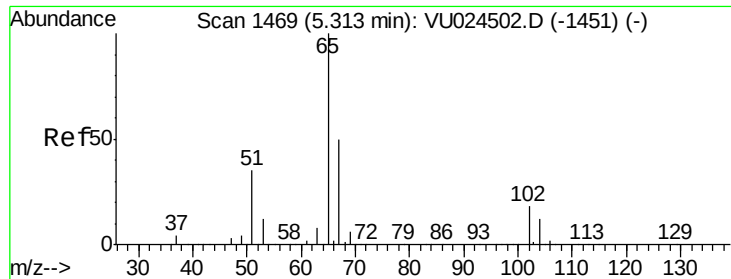
Ion Ratio Lower Upper

56 100

69 187.3 24.8 37.2#

84 134.5 65.2 97.8#

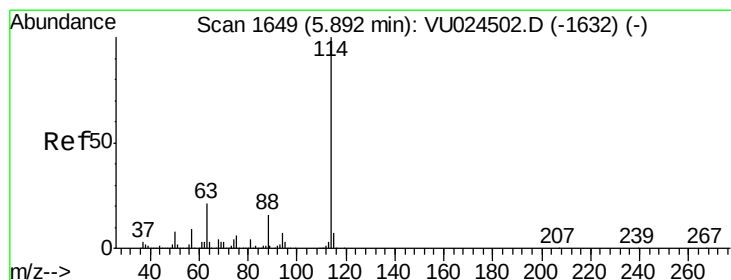
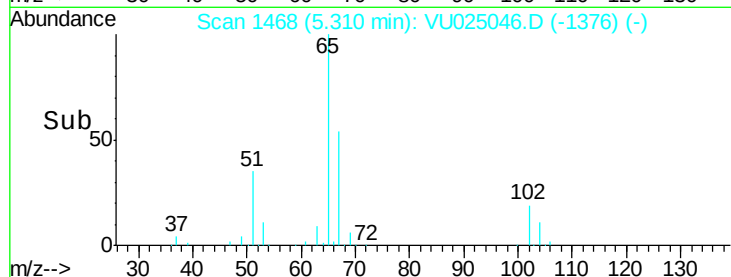
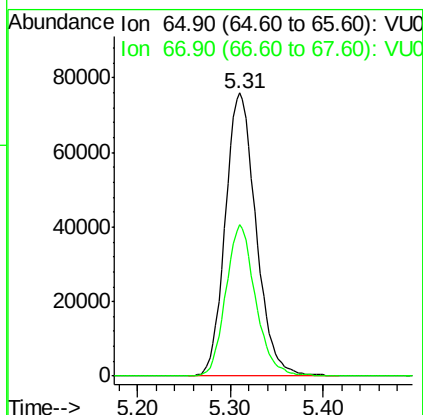
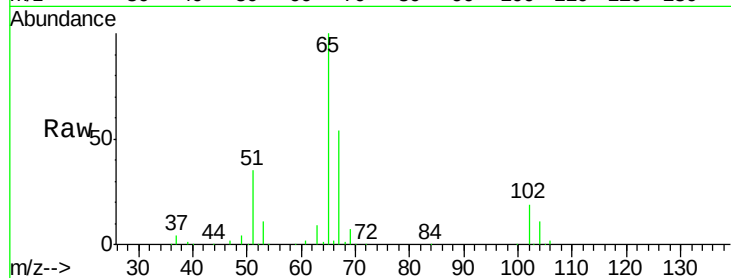




#33
 1,2-Dichloroethane-d4
 Concen: 45.992 ug/l
 RT: 5.31 min Scan# 1468
 Delta R.T. -0.00 min
 Lab File: VU025046.D
 Acq: 29 Jun 2018 02:23

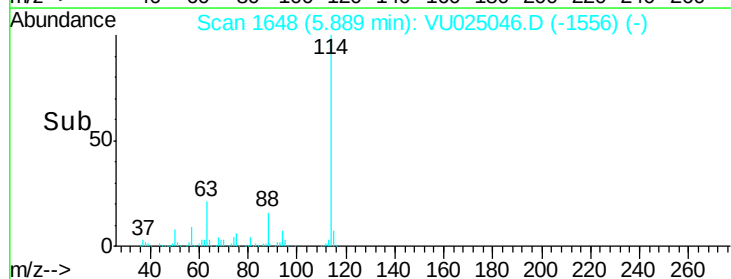
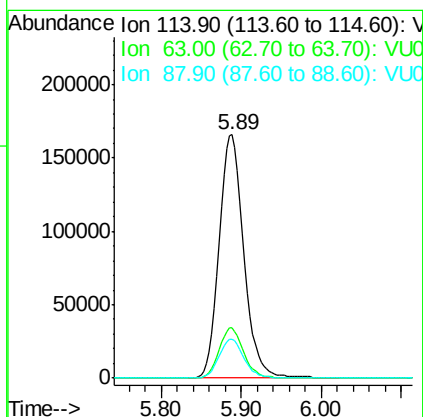
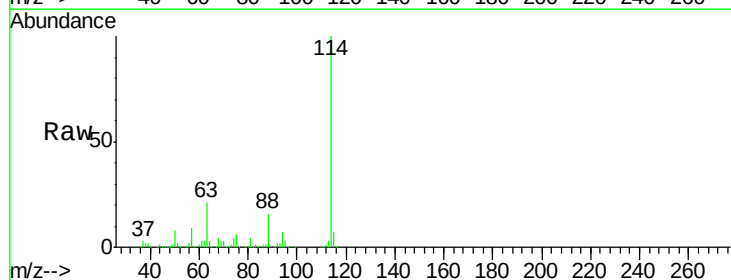
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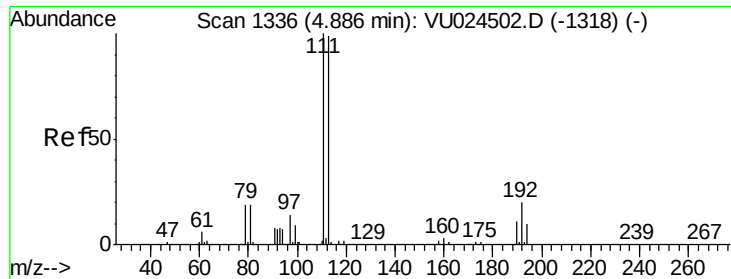
Tgt Ion: 65 Resp: 174719
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025046.D
 Acq: 29 Jun 2018 02:23

Tgt Ion: 114 Resp: 355228
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 45.4
 88 16.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 45.654 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

WP021SB486-27-29-180621ME

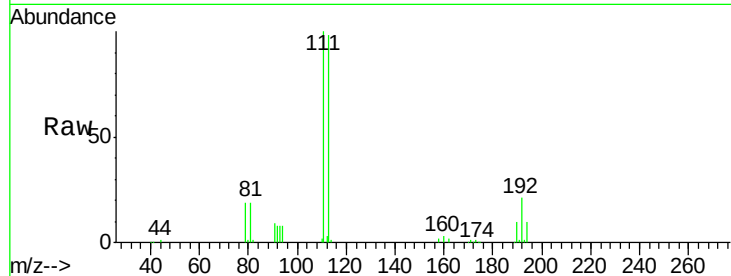
Tgt Ion:113 Resp: 134593

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

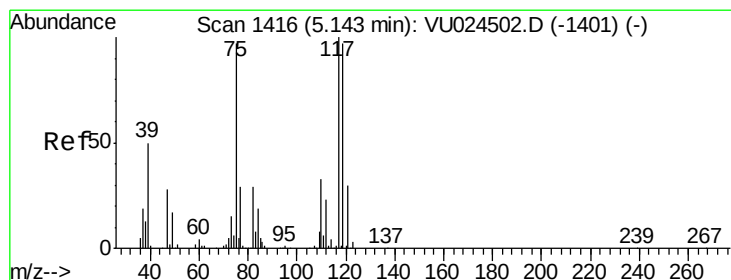
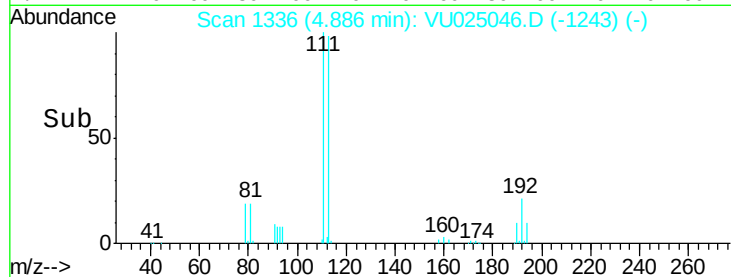
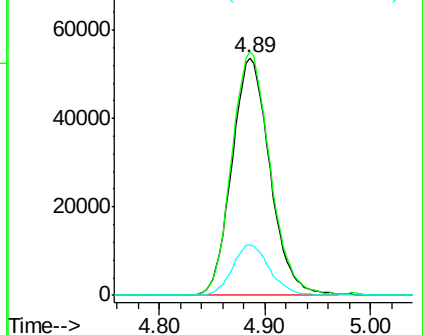
192 20.7 16.2 24.4



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: 4.212 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

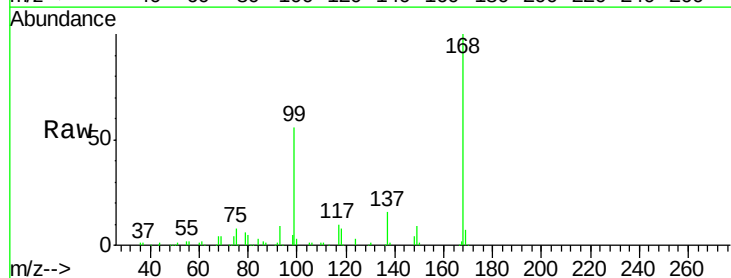
Tgt Ion: 75 Resp: 17581

Ion Ratio Lower Upper

75 100

110 9.1 17.0 50.9#

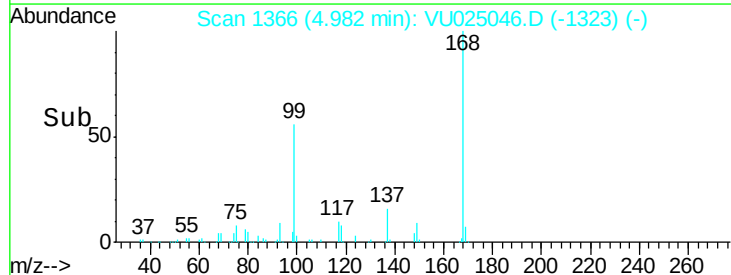
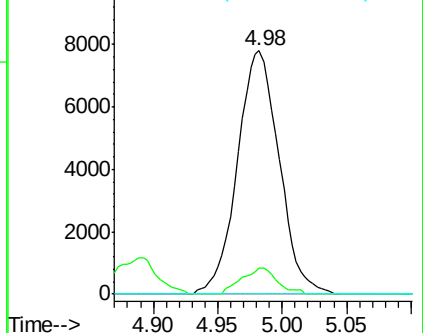
77 0.0 24.2 36.4#

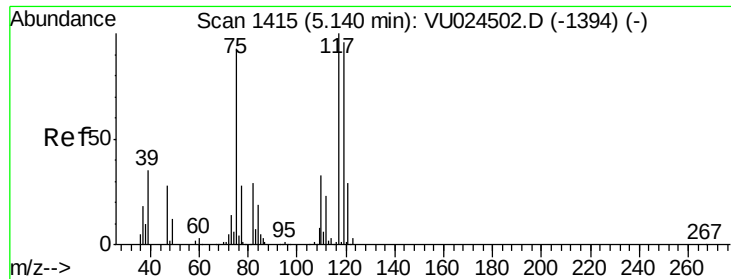


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.961 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

WP021SB486-27-29-180621ME

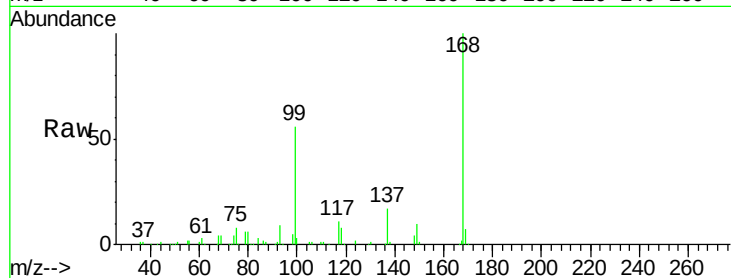
Tgt Ion:117 Resp: 22772

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

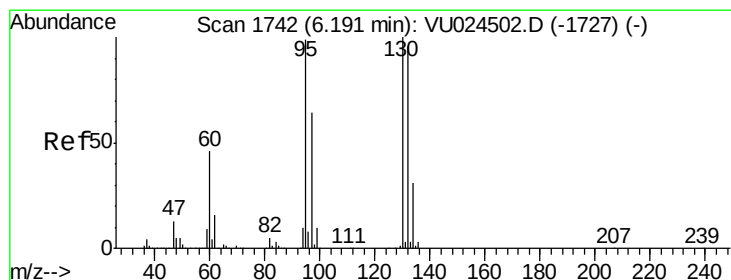
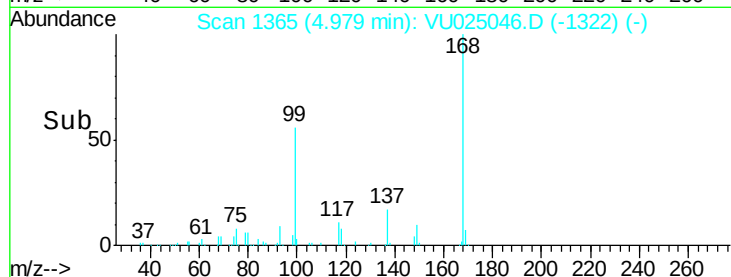
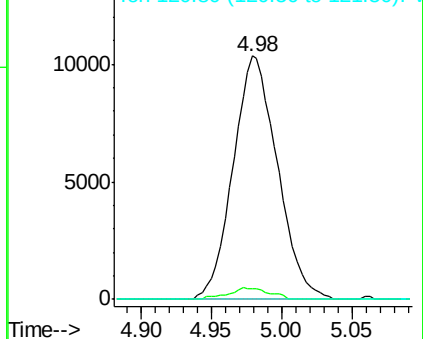
121 0.0 23.7 35.5#



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: 0.241 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025046.D

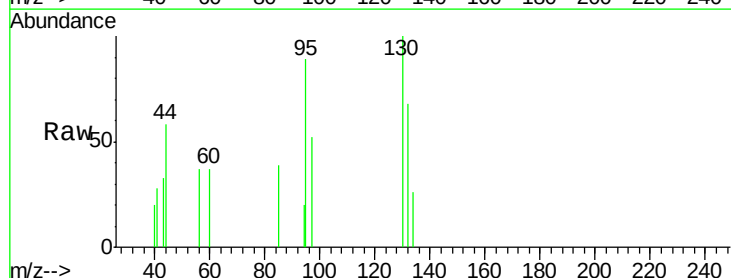
Acq: 29 Jun 2018 02:23

Tgt Ion:130 Resp: 815

Ion Ratio Lower Upper

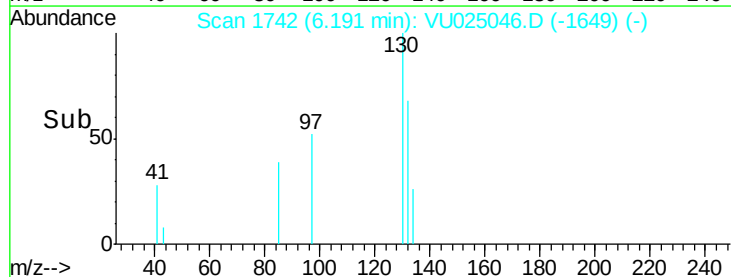
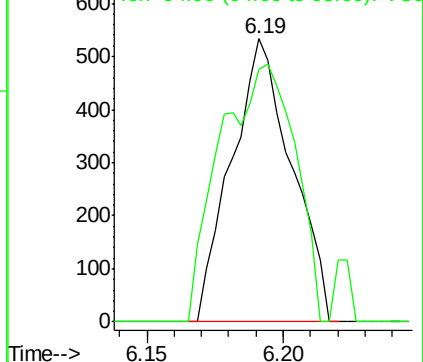
130 100

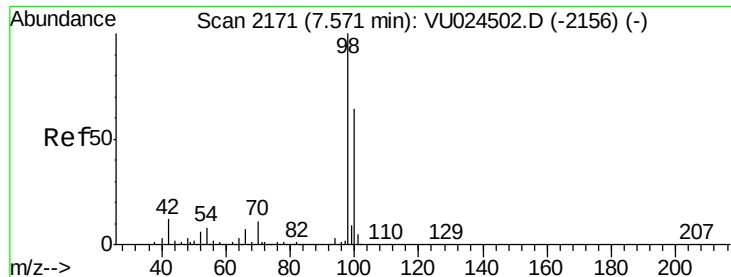
95 89.1 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

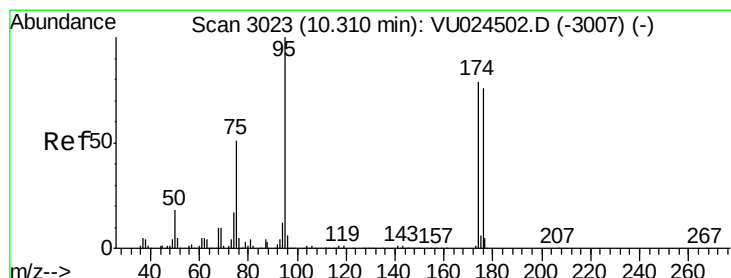
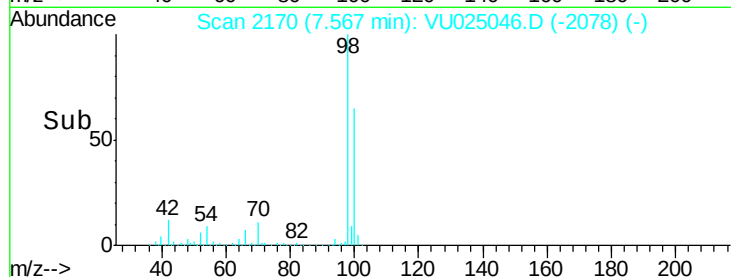
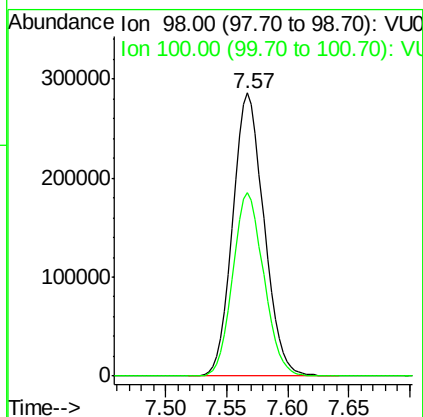
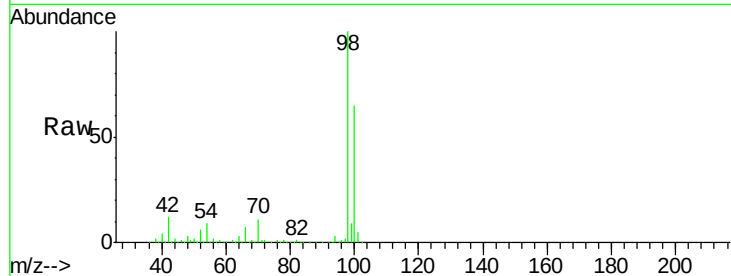




#50
Toluene-d8
Concen: 47.373 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU025046.D
Acq: 29 Jun 2018 02:23

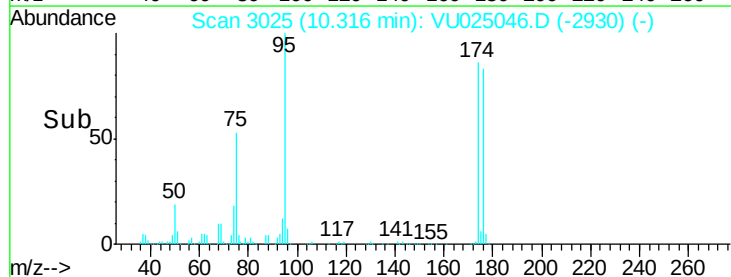
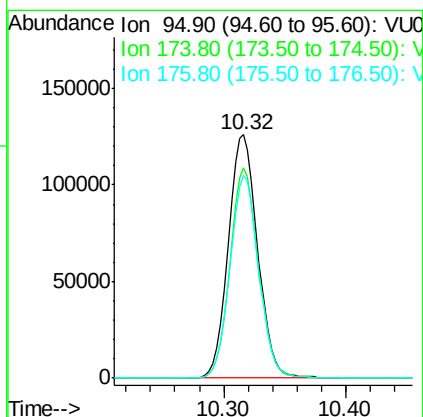
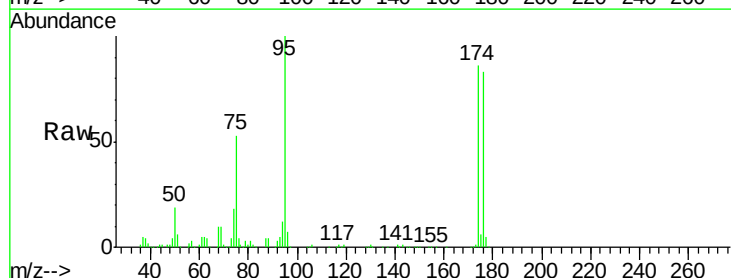
Instrument :
MSVOA_U
ClientSampleId :
WP021SB486-27-29-180621ME

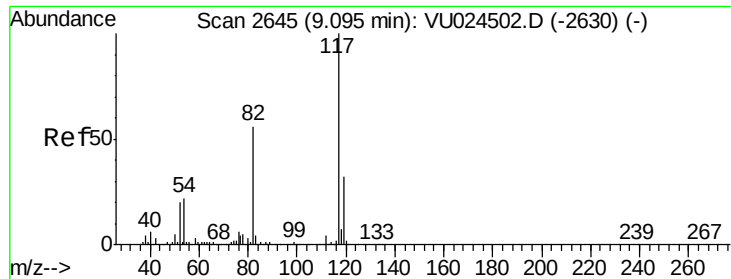
Tgt Ion: 98 Resp: 509425
Ion Ratio Lower Upper
98 100
100 64.5 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 49.479 ug/l
RT: 10.32 min Scan# 3025
Delta R.T. 0.01 min
Lab File: VU025046.D
Acq: 29 Jun 2018 02:23

Tgt Ion: 95 Resp: 211253
Ion Ratio Lower Upper
95 100
174 83.9 0.0 165.8
176 81.4 0.0 159.4

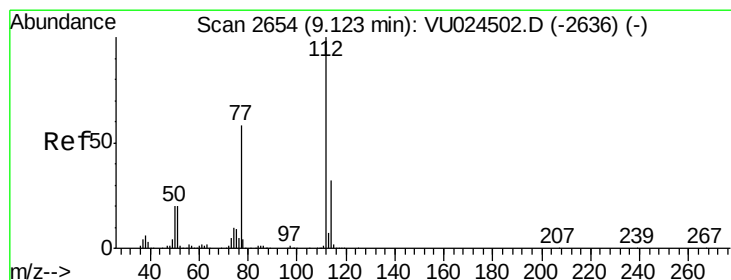
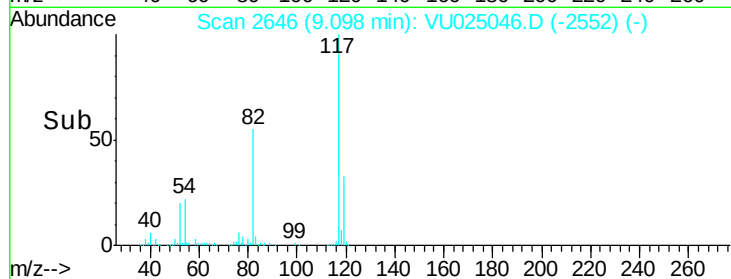
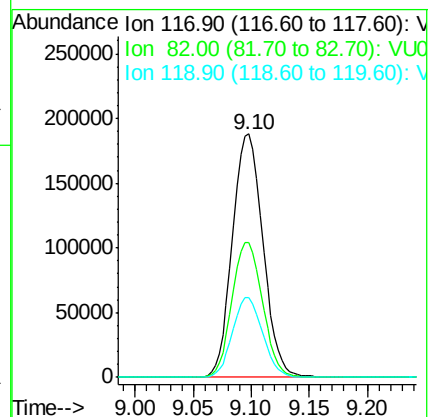
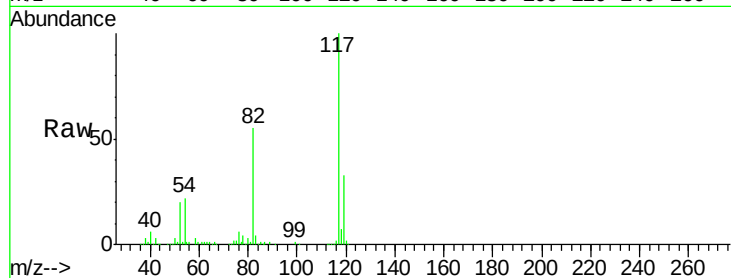




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.10 min Scan# 2646
Delta R.T. 0.00 min
Lab File: VU025046.D
Acq: 29 Jun 2018 02:23

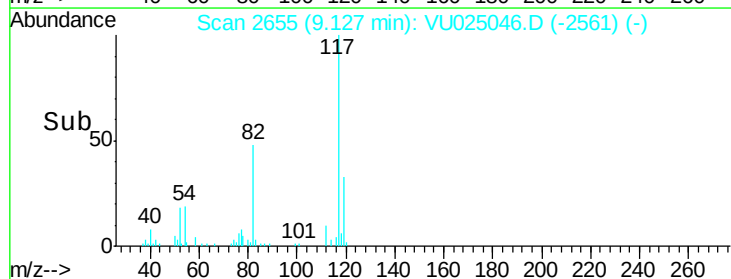
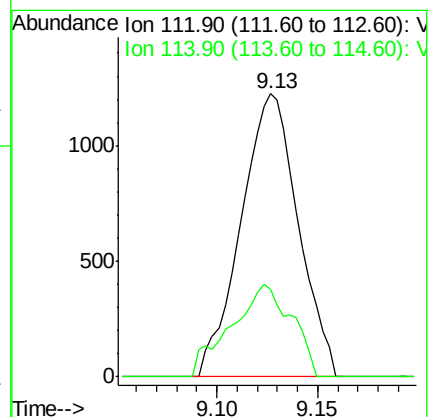
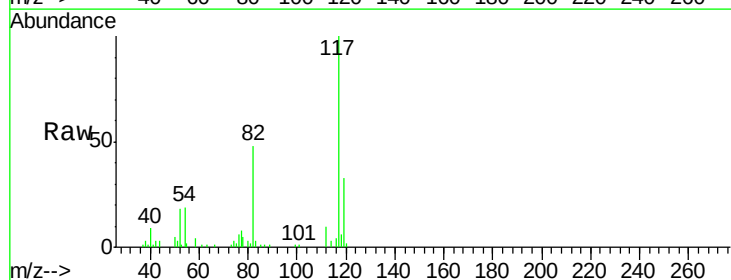
Instrument :
MSVOA_U
ClientSampleId :
WP021SB486-27-29-180621ME

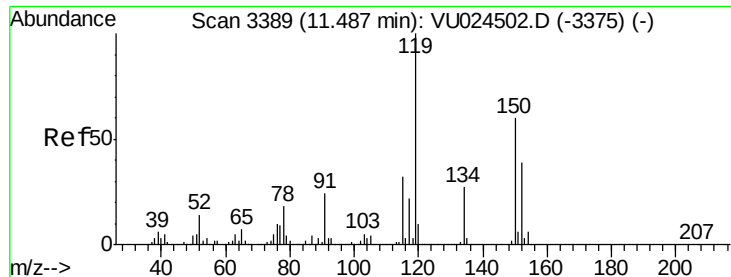
Tgt Ion:117 Resp: 342918
Ion Ratio Lower Upper
117 100
82 55.4 44.3 66.5
119 32.6 25.4 38.2



#65
Chlorobenzene
Concen: 0.276 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU025046.D
Acq: 29 Jun 2018 02:23

Tgt Ion:112 Resp: 2417
Ion Ratio Lower Upper
112 100
114 31.0 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

WP021SB486-27-29-180621ME

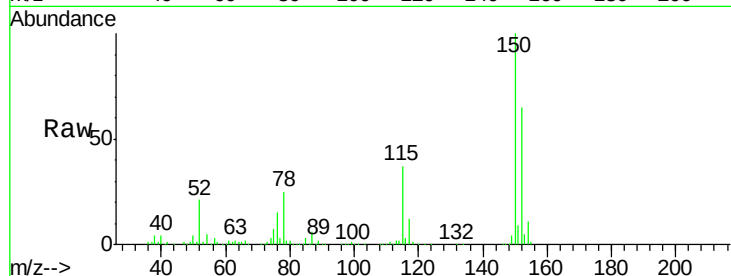
Tgt Ion:152 Resp: 195610

Ion Ratio Lower Upper

152 100

115 56.6 43.0 129.0

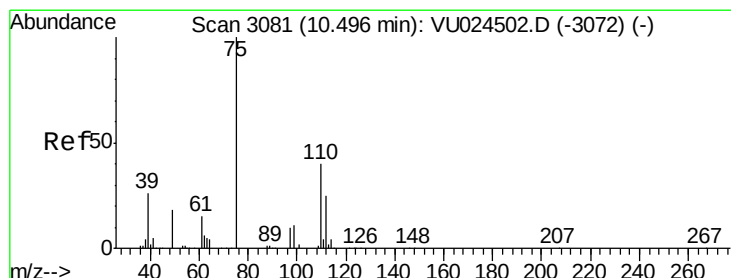
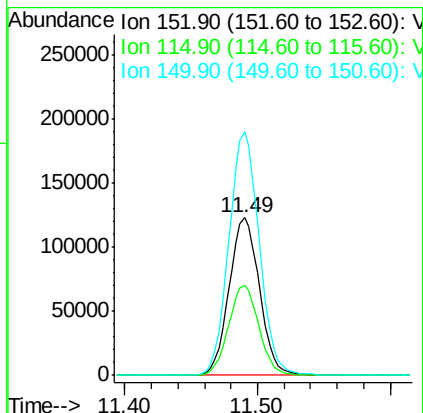
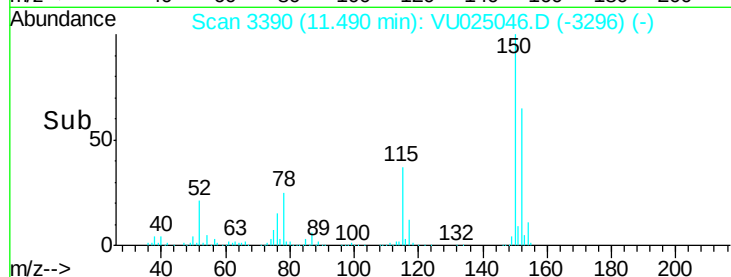
150 154.3 0.0 354.0



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: 25.377 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU025046.D

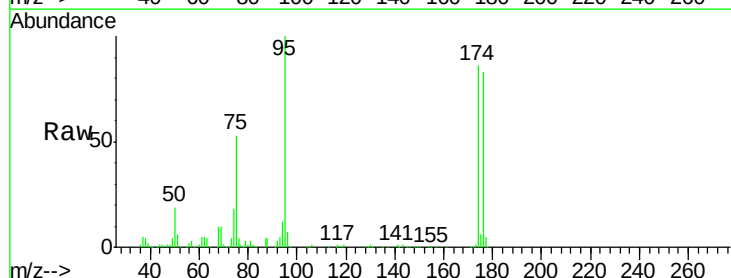
Acq: 29 Jun 2018 02:23

Tgt Ion: 75 Resp: 109291

Ion Ratio Lower Upper

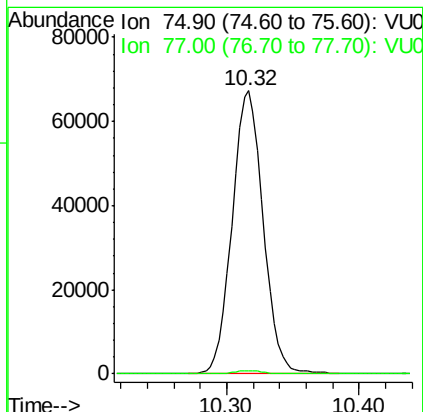
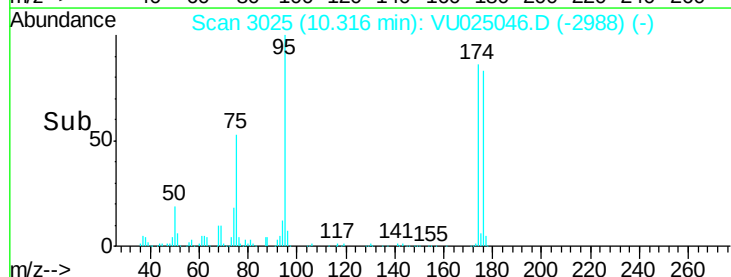
75 100

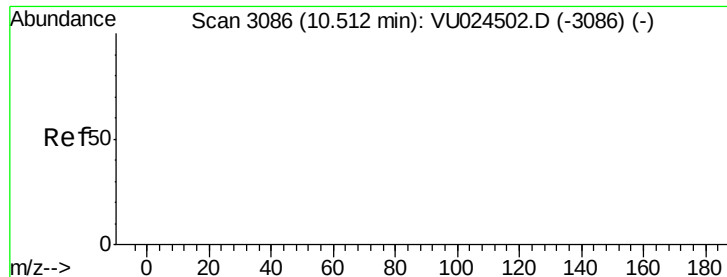
77 1.1 20.9 62.7#



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: 58.734 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.20 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

Instrument :

MSVOA_U

ClientSampleId :

WP021SB486-27-29-180621ME

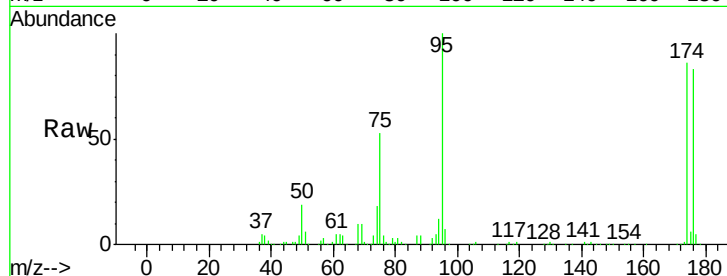
Tgt Ion: 75 Resp: 109291

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

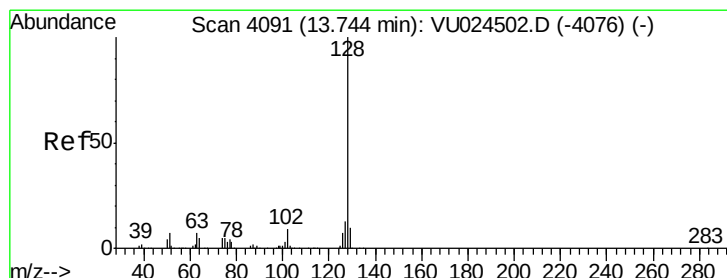
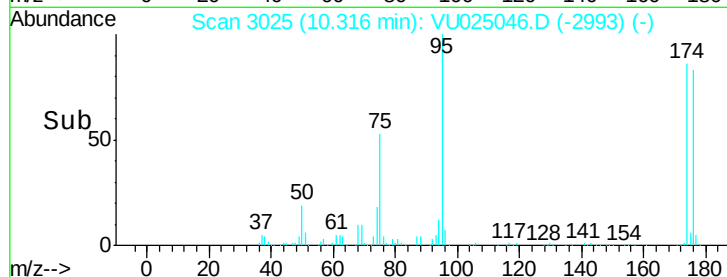
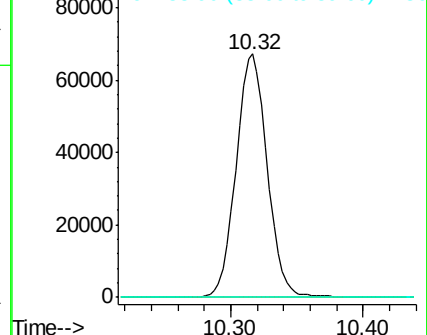
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#95

Naphthalene

Concen: 0.691 ug/l

RT: 13.77 min Scan# 4099

Delta R.T. 0.03 min

Lab File: VU025046.D

Acq: 29 Jun 2018 02:23

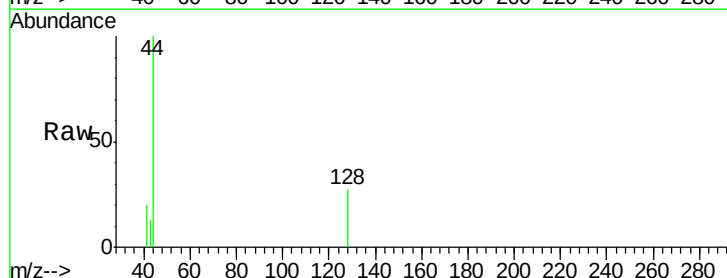
Tgt Ion: 128 Resp: 174

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024502.D (-4076) (-)

Ion 127.00 (126.70 to 127.70): VU024502.D (-4076) (-)

Ion 129.00 (128.70 to 129.70): VU024502.D (-4076) (-)

