

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024517.D
 Acq On : 13 Jun 2018 18:55
 Operator : MD/SY
 Sample : PB110190ZHE#16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#16

Quant Time: Jun 14 02:19:54 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	185778	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	314413	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	303862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	175777	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.32	65	145495	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
35) Dibromofluoromethane	4.89	113	125603	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	
50) Toluene-d8	7.57	98	464927	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
62) 4-Bromofluorobenzene	10.31	95	183472	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	

Target Compounds

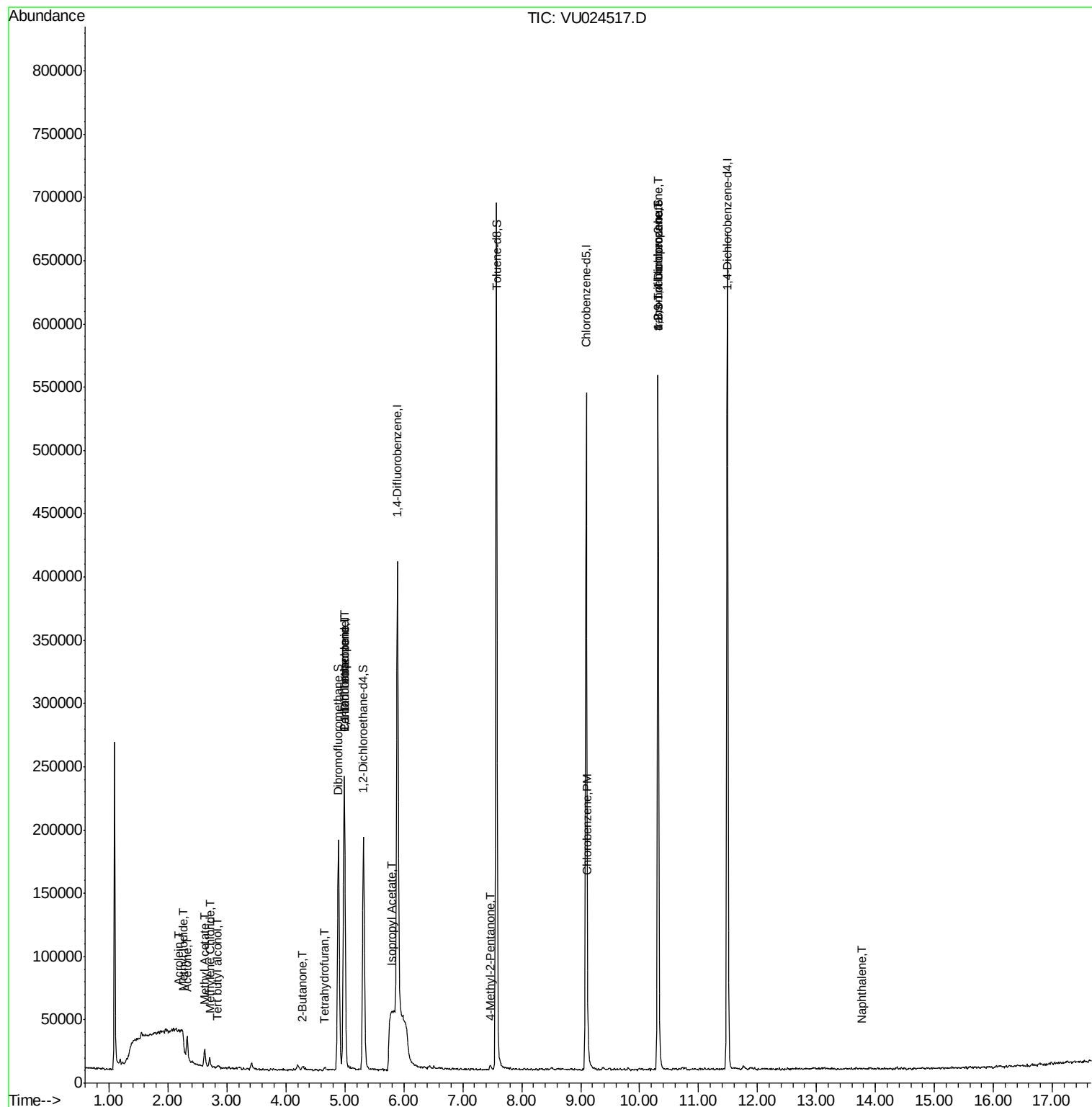
						Qvalue
6) Chloroethane	1.74	64	136	Below Cal	#	43
8) Diethyl Ether	2.10	74	196	Below Cal		70
10) Methyl Iodide	2.27	142	44	5.31	ug/l #	1
11) Tert butyl alcohol	2.84	59	1054	1.43	ug/l #	75
13) Acrolein	2.19	56	165	0.43	ug/l #	13
16) Acetone	2.32	43	17802	10.92	ug/l	98
18) Methyl Acetate	2.62	43	17744	5.08	ug/l	100
20) Methylene Chloride	2.71	84	3364	1.32	ug/l	87
25) 2-Butanone	4.28	43	4385	2.00	ug/l	94
29) Tetrahydrofuran	4.66	42	1065	0.79	ug/l #	73
31) Cyclohexane	4.99	56	3630	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13183	3.57	ug/l #	53
38) Carbon Tetrachloride	4.99	117	16968	4.18	ug/l #	17
43) Isopropyl Acetate	5.79	43	61874	8.89	ug/l #	62
51) 4-Methyl-2-Pentanone	7.47	43	2572	0.59	ug/l #	86
65) Chlorobenzene	9.12	112	4737	0.61	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	92220	23.83	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	92220	55.15	ug/l #	100
95) Naphthalene	13.77	128	226	0.70	ug/l #	84

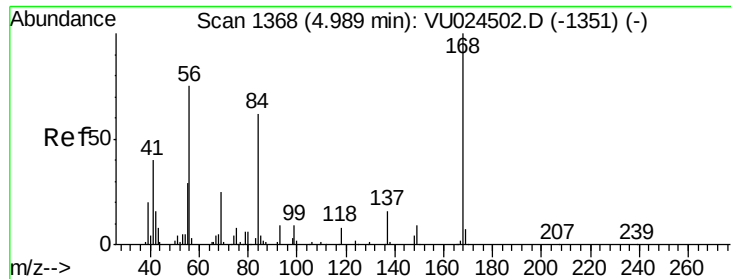
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

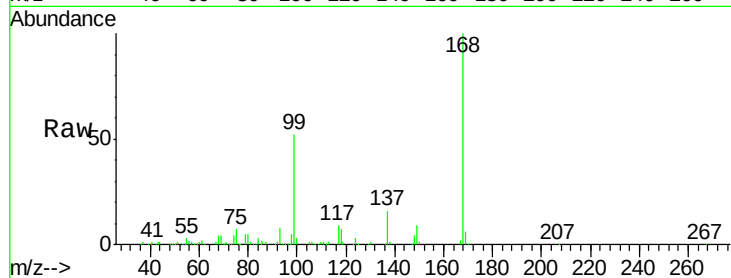
PB110190ZHE#16

Tgt Ion:168 Resp: 185778

Ion Ratio Lower Upper

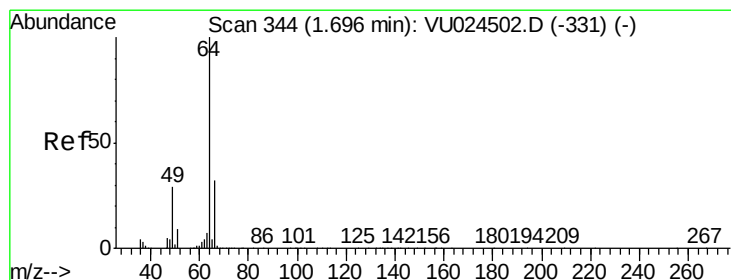
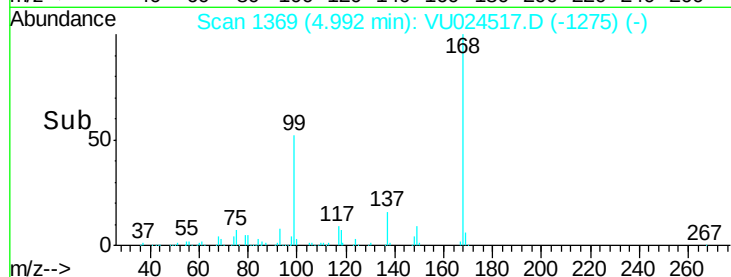
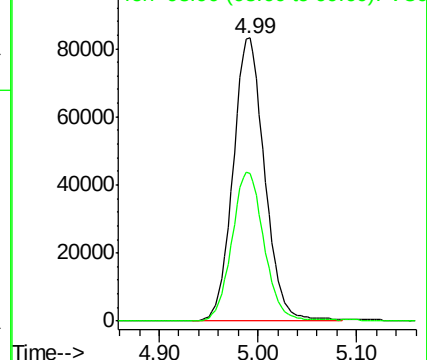
168 100

99 52.2 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024517.D (-251) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 357

Delta R.T. 0.04 min

Lab File: VU024517.D

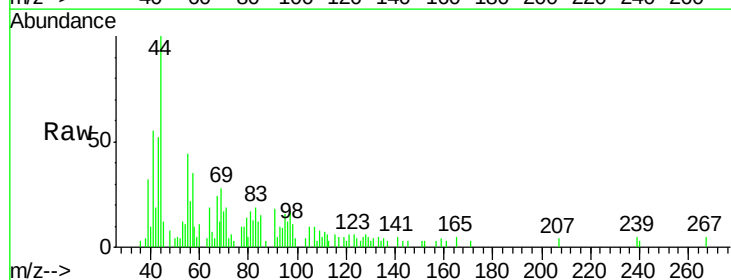
Acq: 13 Jun 2018 18:55

Tgt Ion: 64 Resp: 136

Ion Ratio Lower Upper

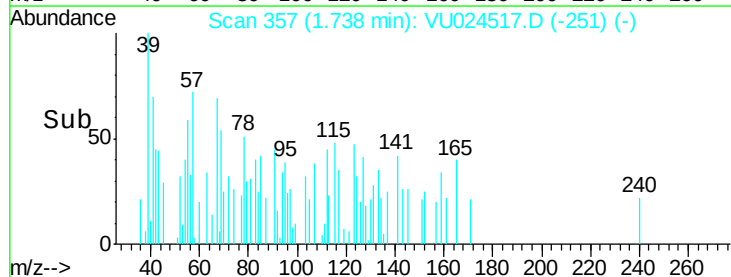
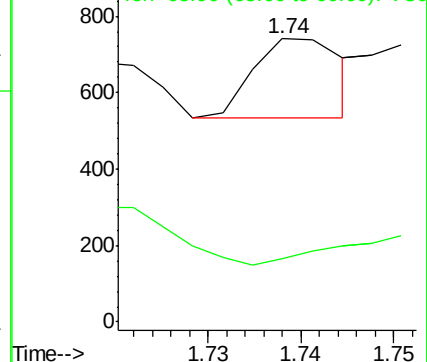
64 100

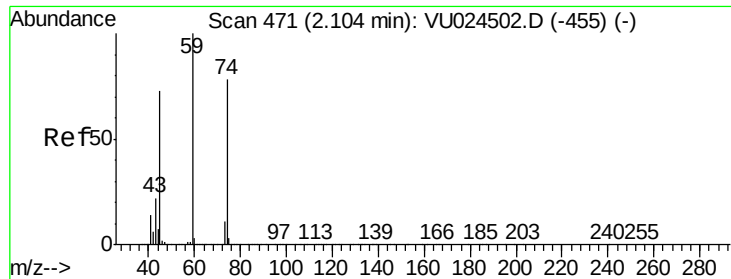
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU024502.D (-331) (-)

Ion 65.90 (65.60 to 66.60): VU024517.D (-251) (-)





#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

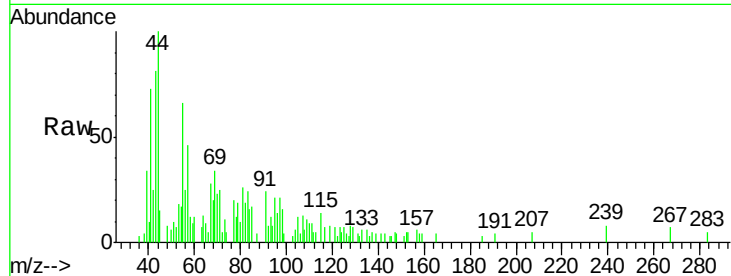
PB110190ZHE#16

Tgt Ion: 74 Resp: 196

Ion Ratio Lower Upper

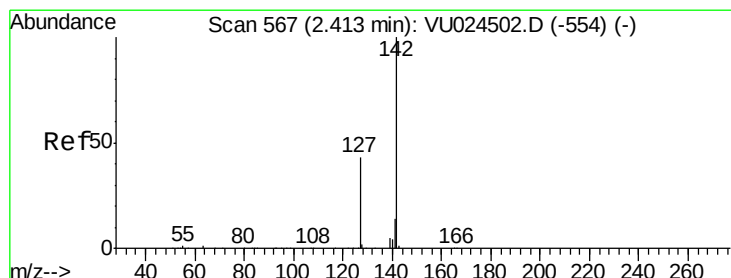
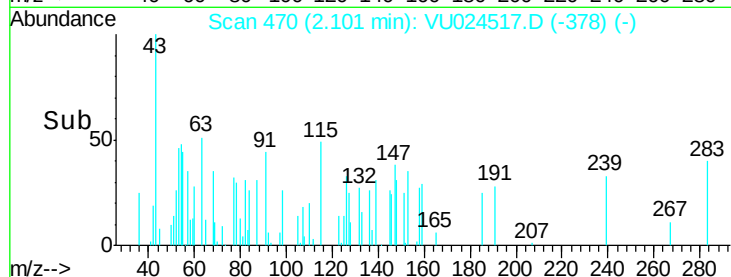
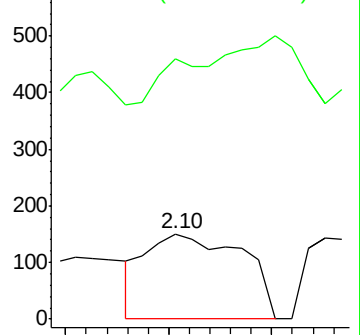
74 100

45 78.1 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU024517.D (-378) (-)

Ion 45.00 (44.70 to 45.70): VU024517.D (-378) (-)



#10

Methyl Iodide

Concen: 5.31 ug/l

RT: 2.27 min Scan# 521

Delta R.T. -0.15 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

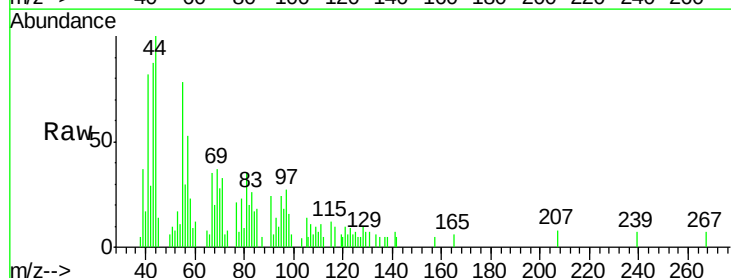
Tgt Ion: 142 Resp: 44

Ion Ratio Lower Upper

142 100

127 227.3 35.6 53.4#

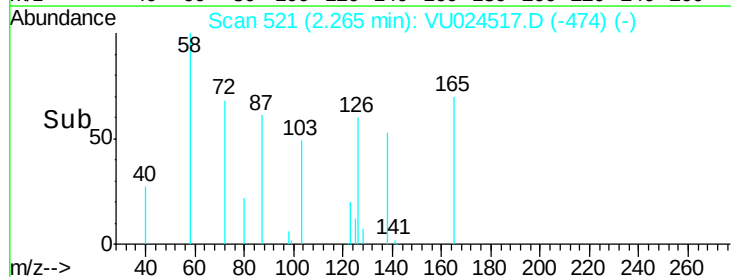
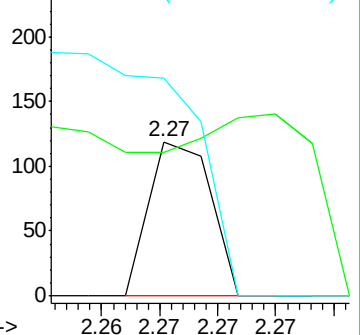
141 0.0 11.7 17.5#

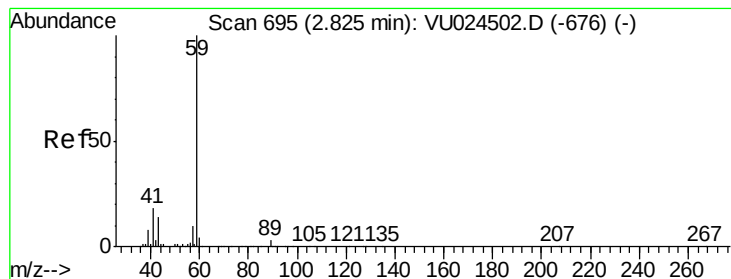


Abundance Ion 141.80 (141.50 to 142.50): VU024517.D (-474) (-)

Ion 126.80 (126.50 to 127.50): VU024517.D (-474) (-)

Ion 140.80 (140.50 to 141.50): VU024517.D (-474) (-)





#11

Tert butyl alcohol

Concen: 1.43 ug/l

RT: 2.84 min Scan# 700

Delta R.T. 0.02 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

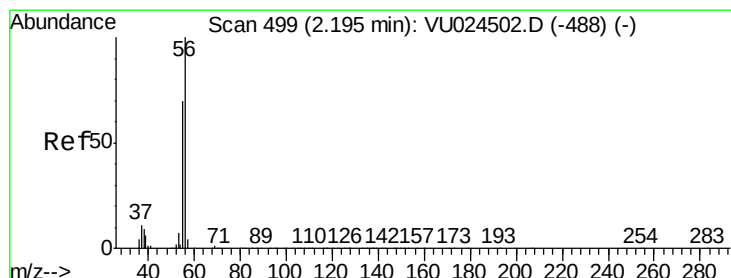
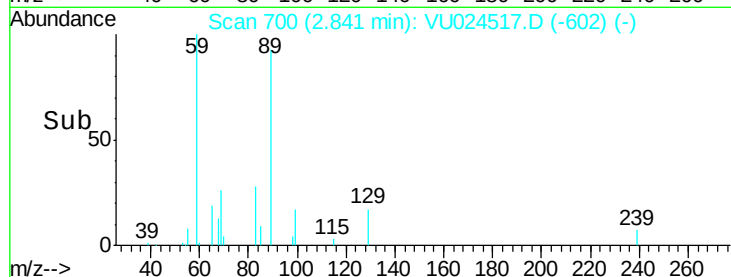
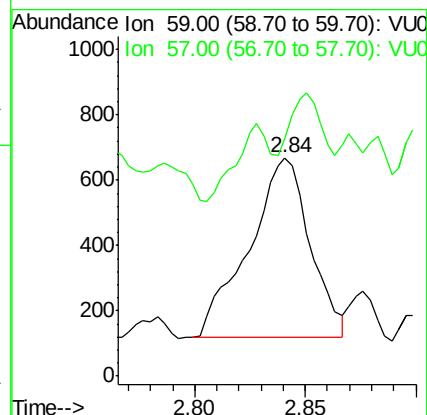
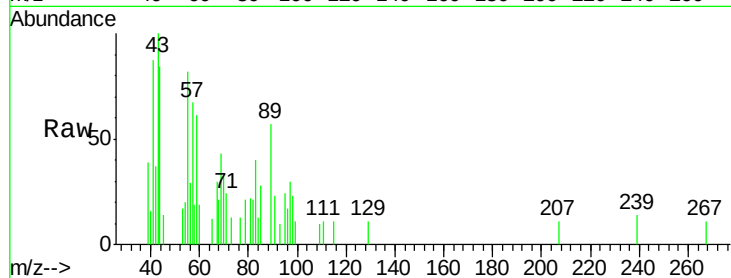
PB110190ZHE#16

Tgt Ion: 59 Resp: 1054

Ion Ratio Lower Upper

59 100

57 20.0 8.5 12.7#



#13

Acrolein

Concen: 0.43 ug/l

RT: 2.19 min Scan# 497

Delta R.T. -0.01 min

Lab File: VU024517.D

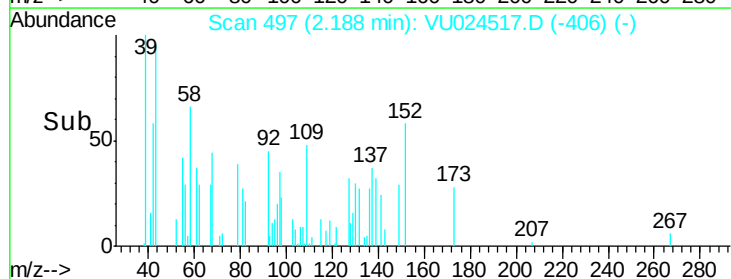
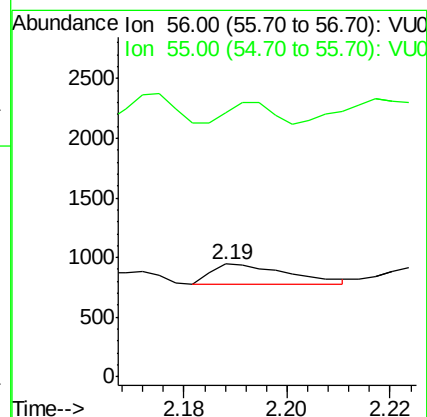
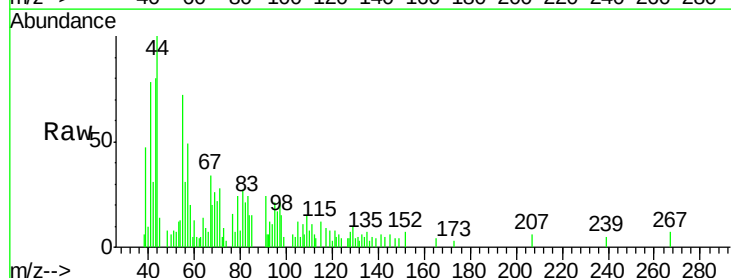
Acq: 13 Jun 2018 18:55

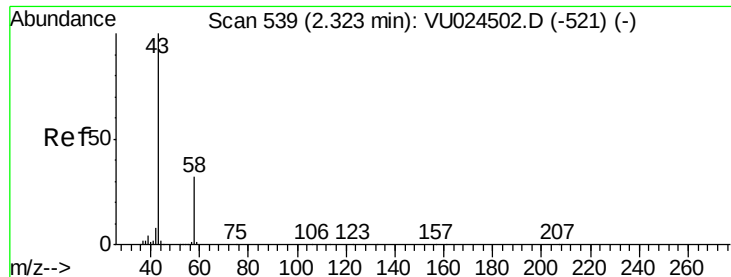
Tgt Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#





#16

Acetone

Concen: 10.92 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

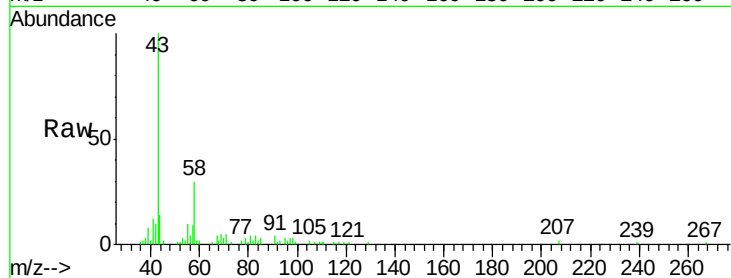
PB110190ZHE#16

Tgt Ion: 43 Resp: 17802

Ion Ratio Lower Upper

43 100

58 31.3 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

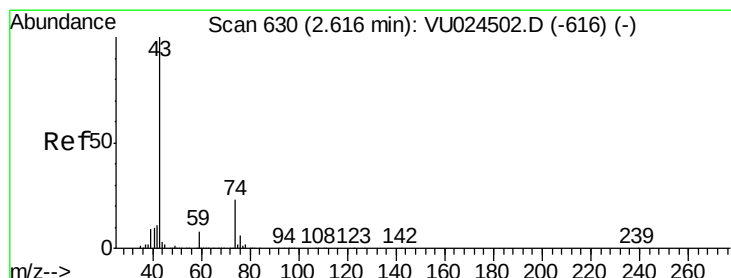
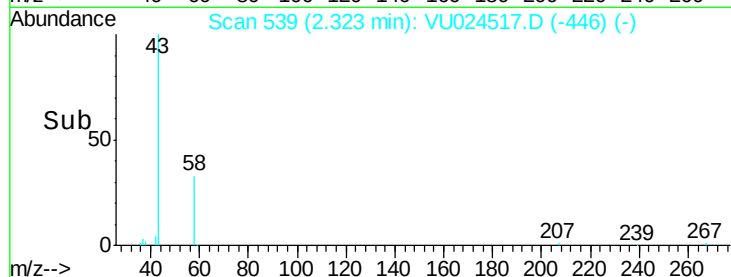
2.32

10000

5000

0

Time-->



#18

Methyl Acetate

Concen: 5.08 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU024517.D

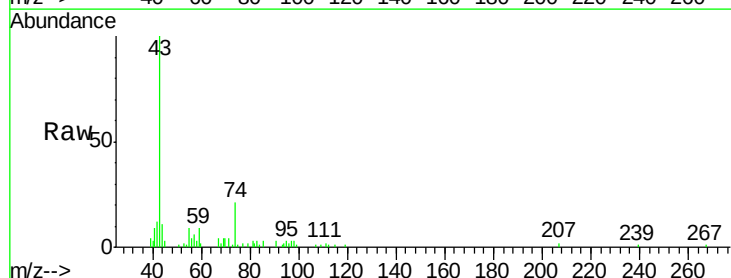
Acq: 13 Jun 2018 18:55

Tgt Ion: 43 Resp: 17744

Ion Ratio Lower Upper

43 100

74 22.6 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

12000

10000

8000

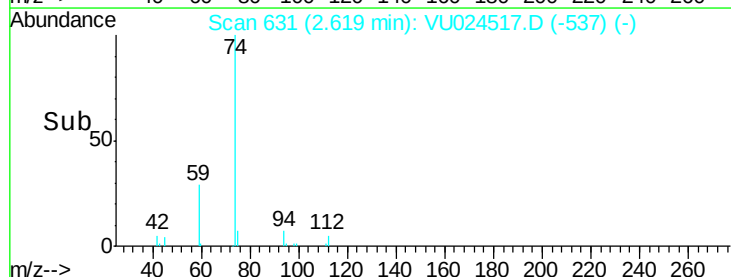
6000

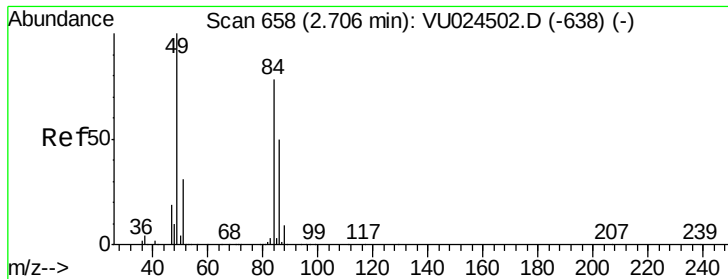
4000

2000

0

Time-->

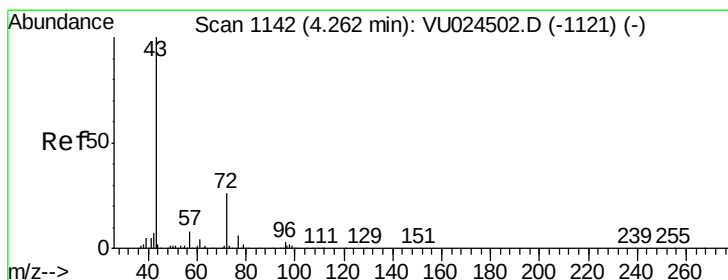
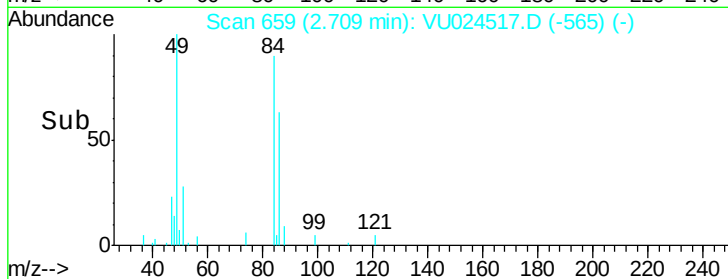
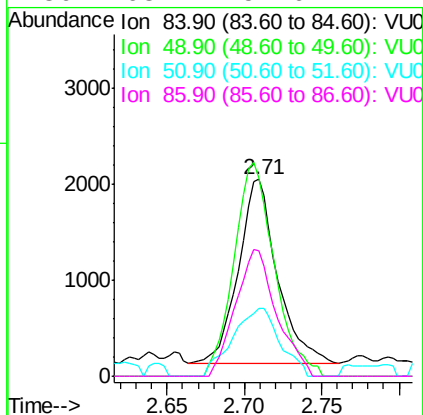
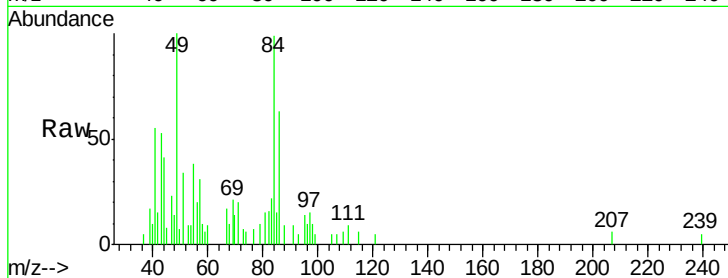




#20
Methylene Chloride
Concen: 1.32 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024517.D
Acq: 13 Jun 2018 18:55

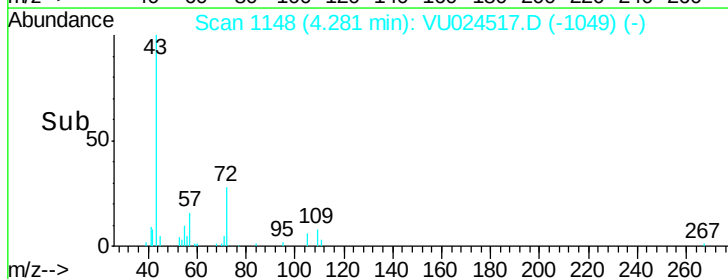
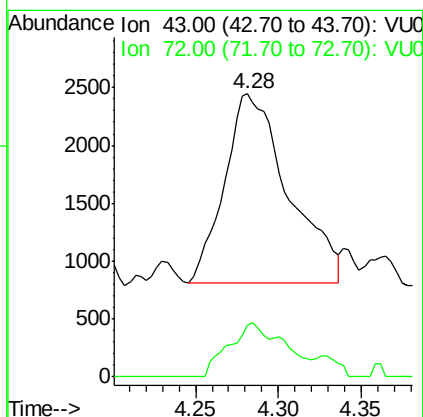
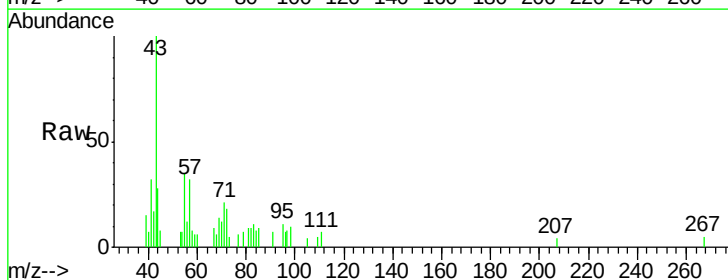
Instrument :
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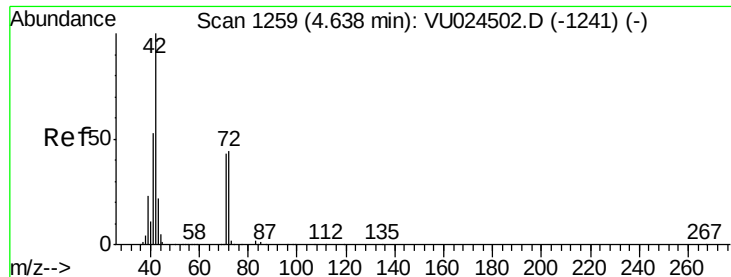
Tgt Ion:	84	Resp:	3364
Ion	Ratio	Lower	Upper
84	100		
49	107.6	103.8	155.8
51	36.5	32.0	48.0
86	68.1	51.6	77.4



#25
2-Butanone
Concen: 2.00 ug/l
RT: 4.28 min Scan# 1148
Delta R.T. 0.02 min
Lab File: VU024517.D
Acq: 13 Jun 2018 18:55

Tgt Ion:	43	Resp:	4385
Ion	Ratio	Lower	Upper
43	100		
72	27.4	19.6	29.4





#29

Tetrahydrofuran

Concen: 0.79 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#16

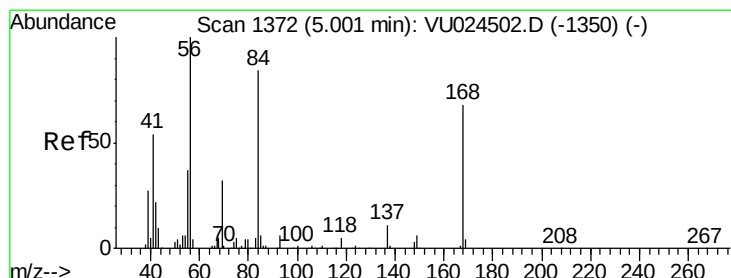
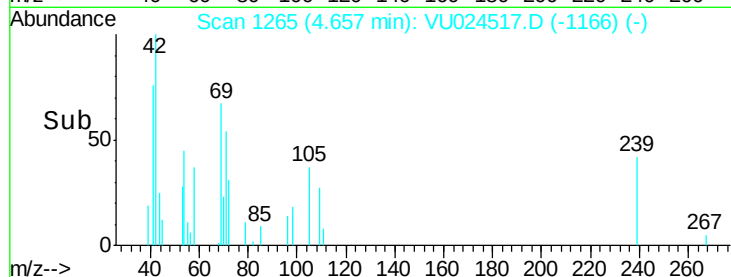
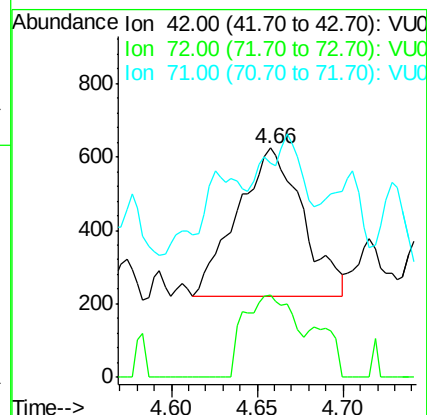
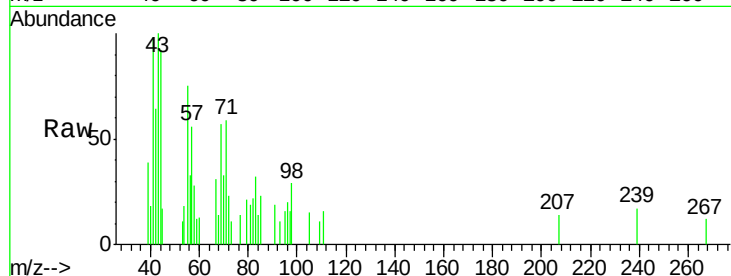
Tgt Ion: 42 Resp: 1065

Ion Ratio Lower Upper

42 100

72 42.3 34.5 51.7

71 6.0 32.2 48.4#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

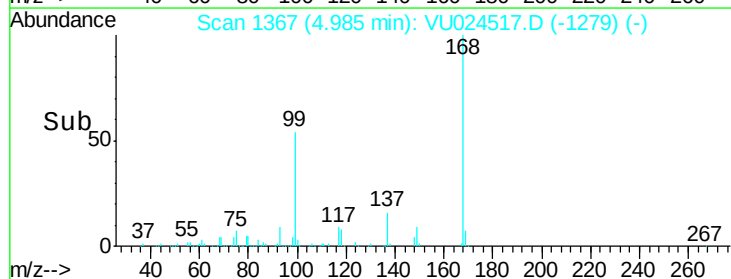
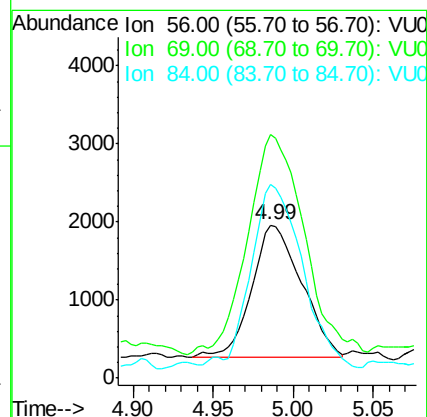
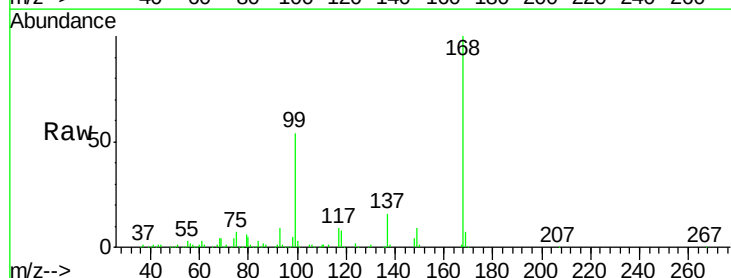
Tgt Ion: 56 Resp: 3630

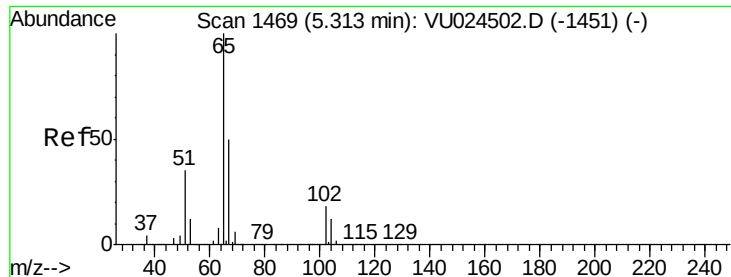
Ion Ratio Lower Upper

56 100

69 163.9 24.8 37.2#

84 136.1 65.2 97.8#

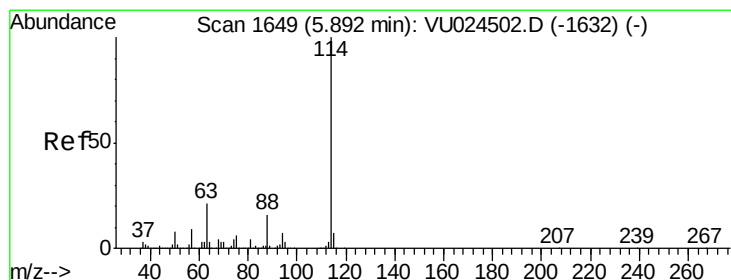
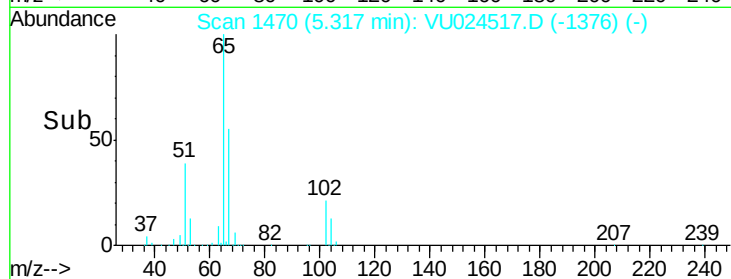
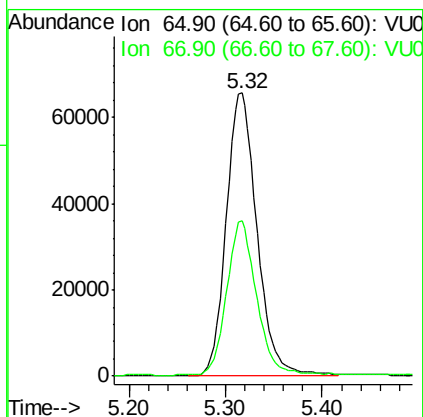
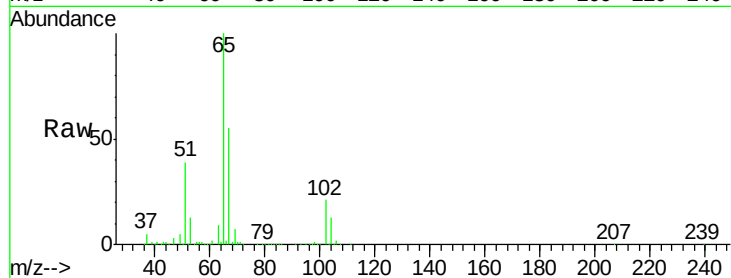




#33
 1,2-Dichloroethane-d4
 Concen: 47.97 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024517.D
 Acq: 13 Jun 2018 18:55

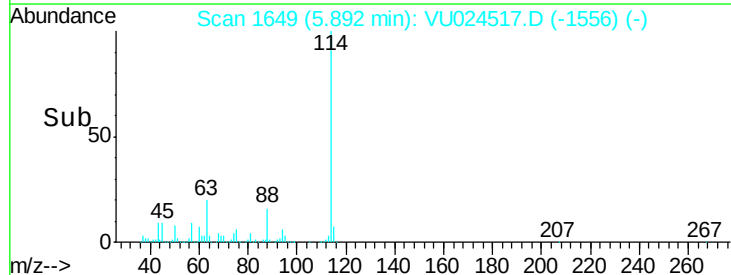
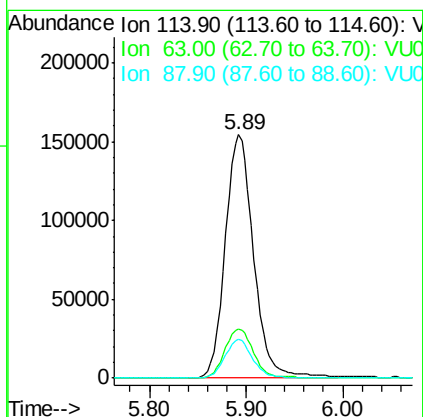
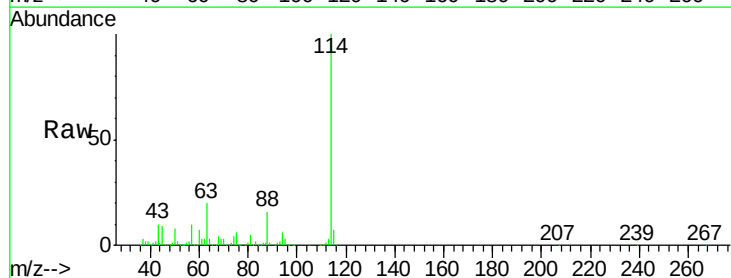
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#16

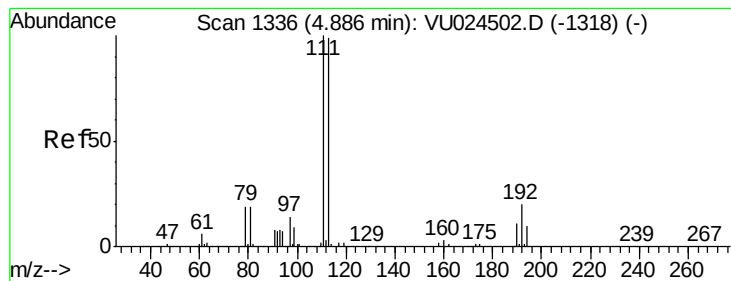
Tgt Ion: 65 Resp: 145495
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024517.D
 Acq: 13 Jun 2018 18:55

Tgt Ion: 114 Resp: 314413
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 45.4
 88 16.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.14 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#16

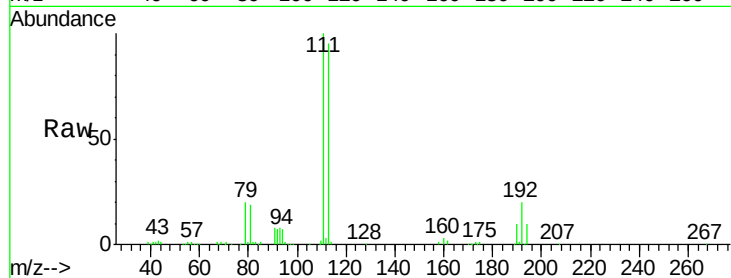
Tgt Ion:113 Resp: 125603

Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.4

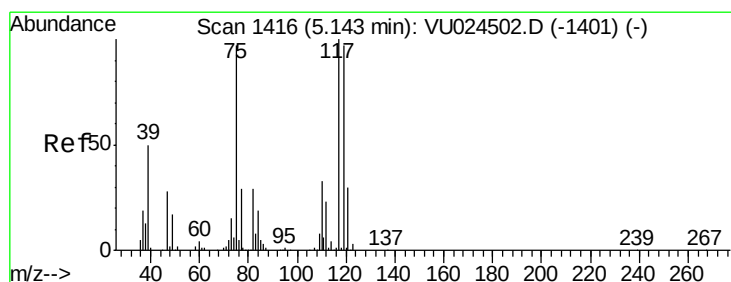
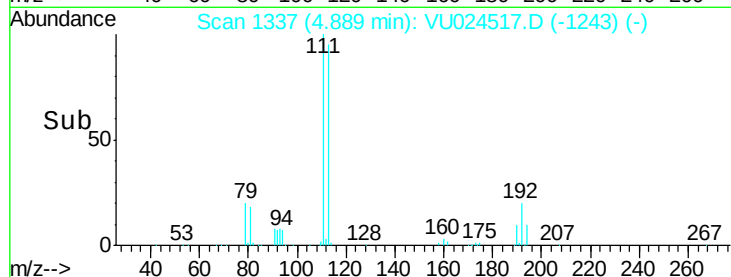
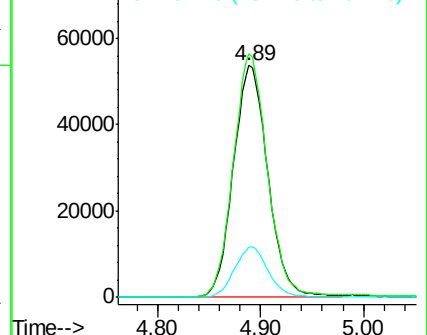
192 21.2 16.2 24.4



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: 3.57 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

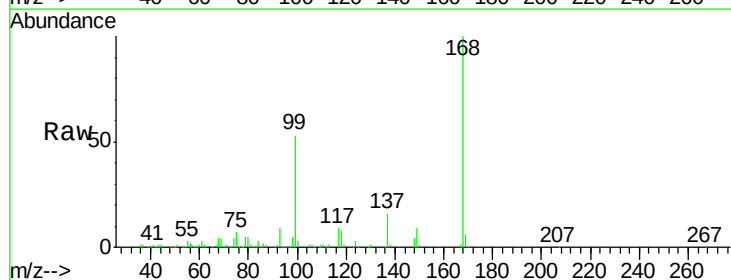
Tgt Ion: 75 Resp: 13183

Ion Ratio Lower Upper

75 100

110 10.4 17.0 50.9#

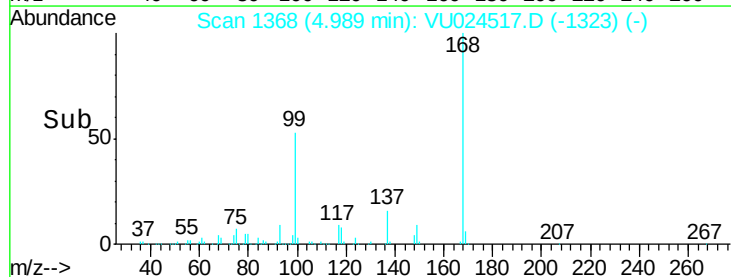
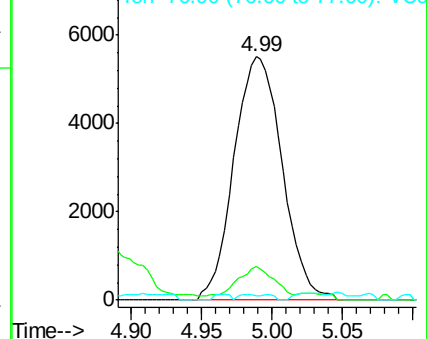
77 1.0 24.2 36.4#

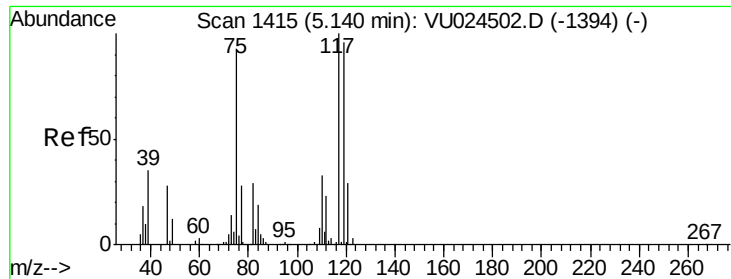


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.18 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#16

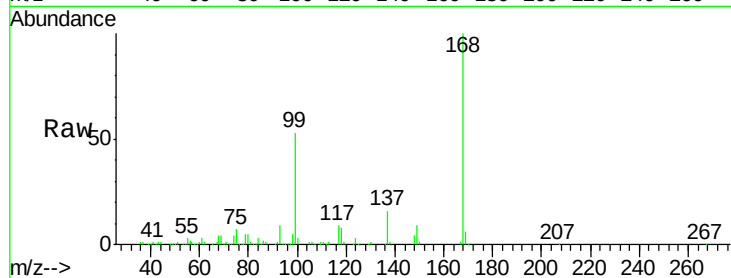
Tgt Ion:117 Resp: 16968

Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

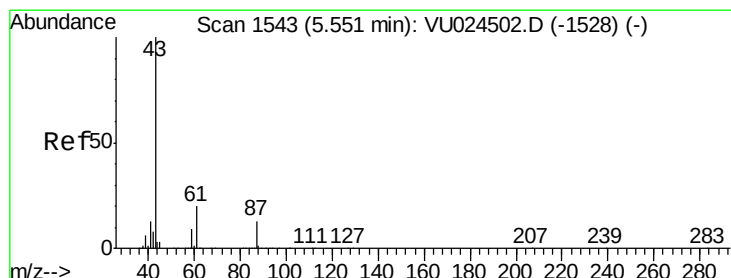
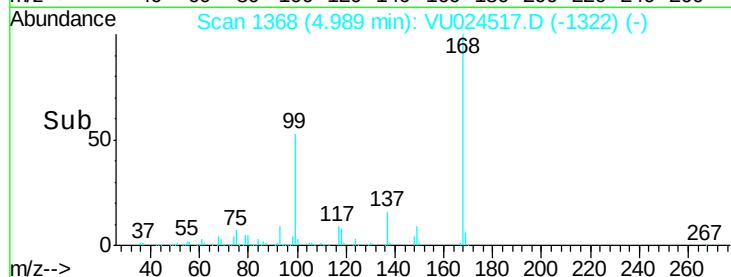
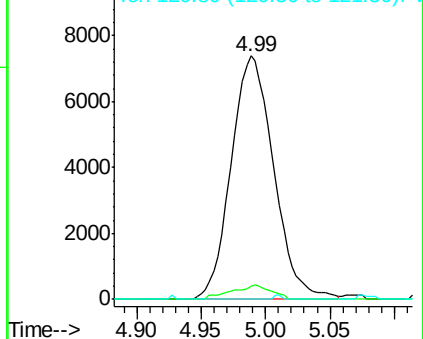
121 0.0 23.7 35.5#



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



#43

Isopropyl Acetate

Concen: 8.89 ug/l

RT: 5.79 min Scan# 1618

Delta R.T. 0.24 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

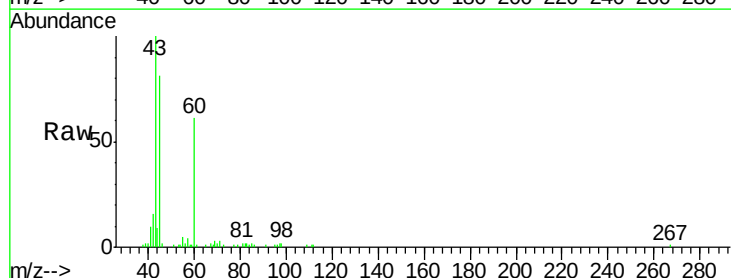
Tgt Ion: 43 Resp: 61874

Ion Ratio Lower Upper

43 100

61 0.4 15.4 23.0#

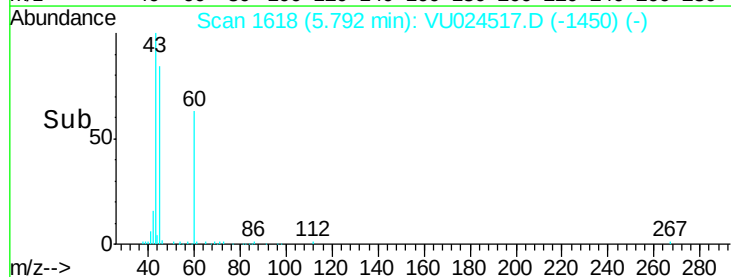
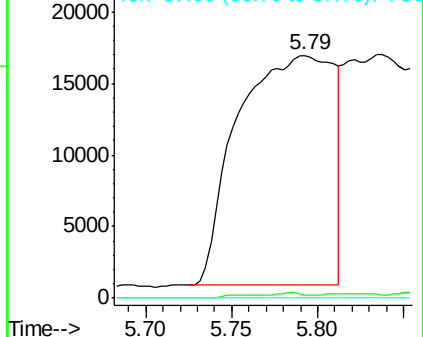
87 0.0 10.0 15.0#

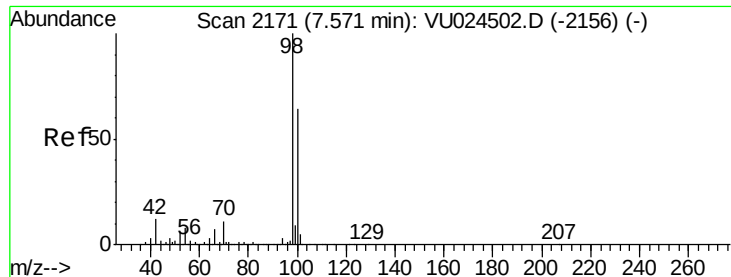


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

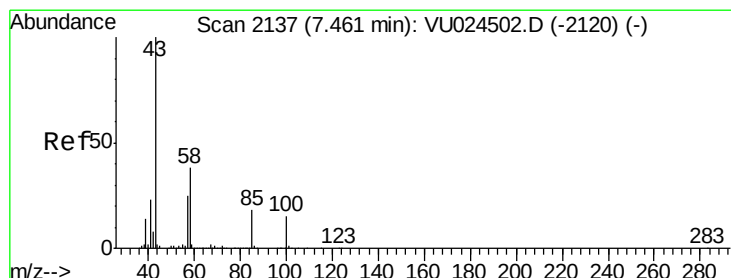
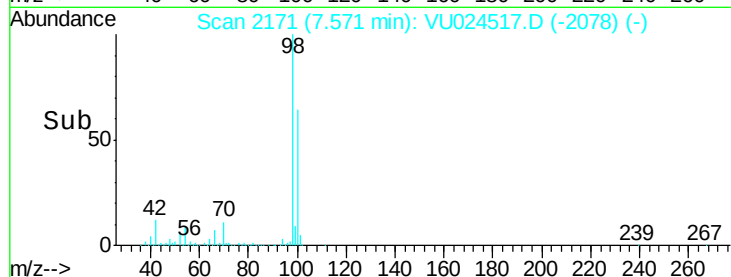
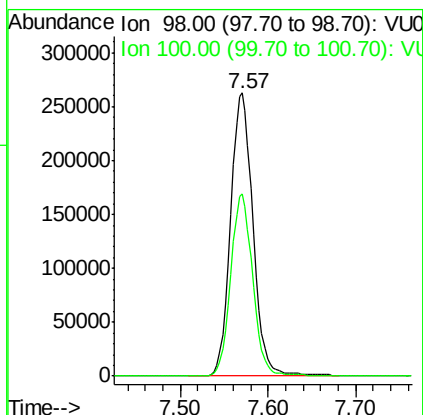
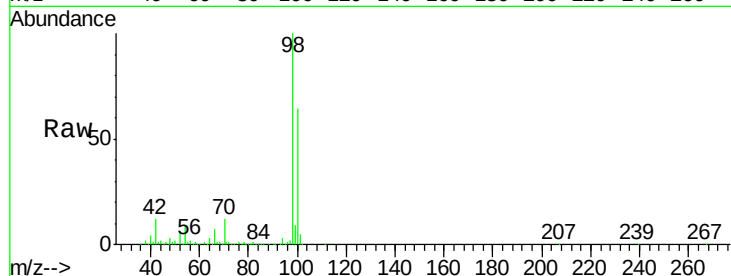




#50
Toluene-d8
Concen: 48.85 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024517.D
Acq: 13 Jun 2018 18:55

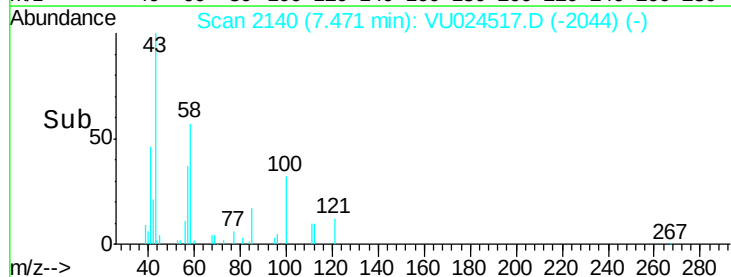
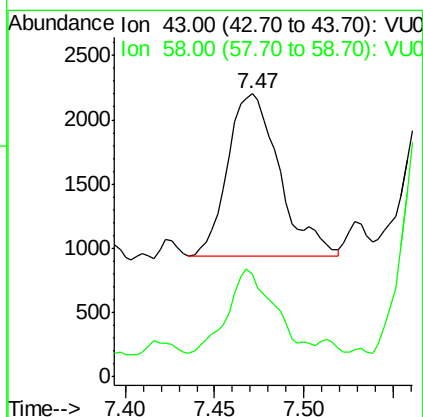
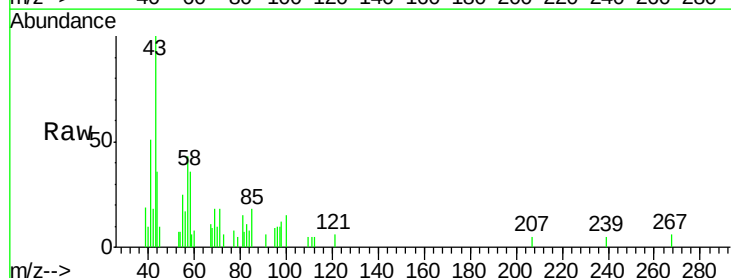
Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#16

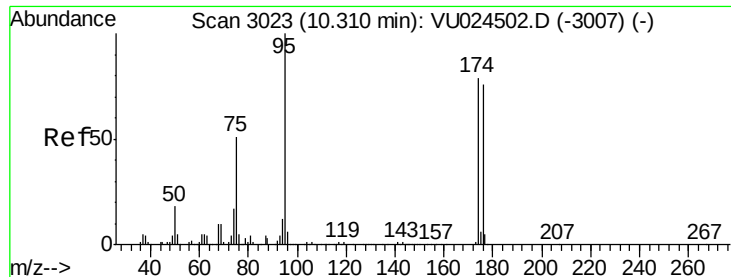
Tgt Ion: 98 Resp: 464927
Ion Ratio Lower Upper
98 100
100 63.4 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.59 ug/l
RT: 7.47 min Scan# 2140
Delta R.T. 0.01 min
Lab File: VU024517.D
Acq: 13 Jun 2018 18:55

Tgt Ion: 43 Resp: 2572
Ion Ratio Lower Upper
43 100
58 46.0 30.0 45.0#

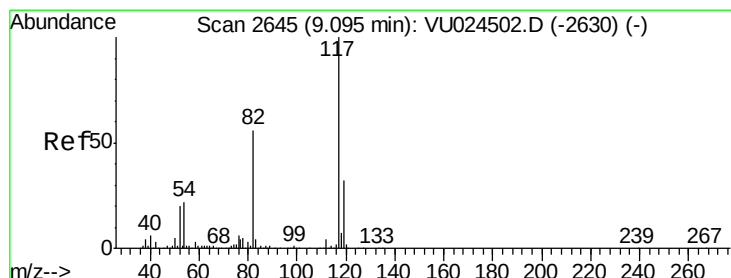
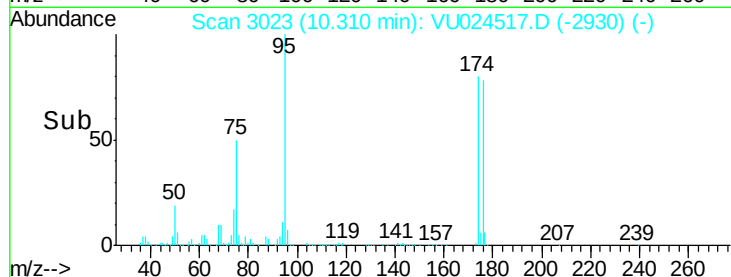
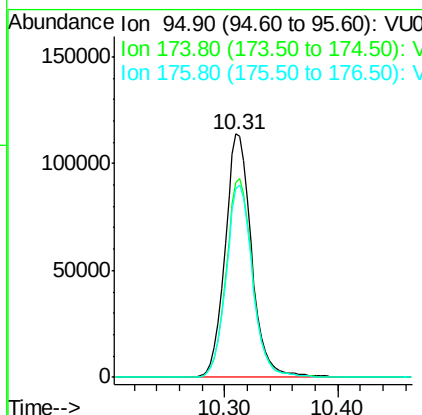
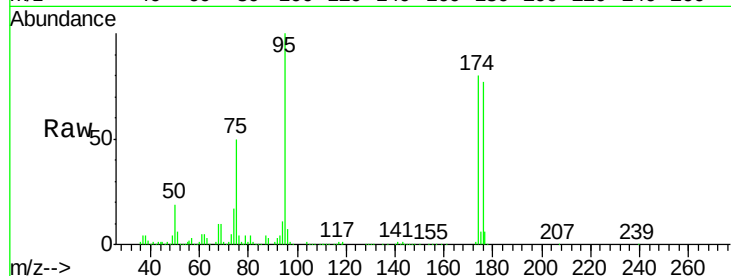




#62
4-Bromofluorobenzene
Concen: 48.55 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024517.D
Acq: 13 Jun 2018 18:55

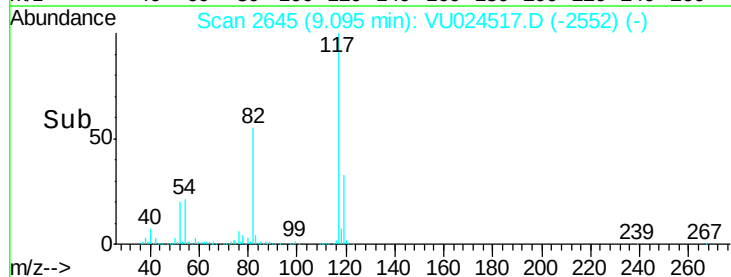
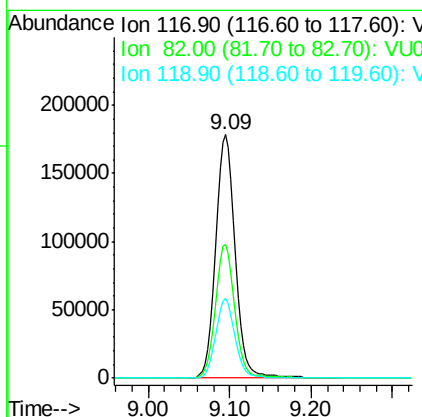
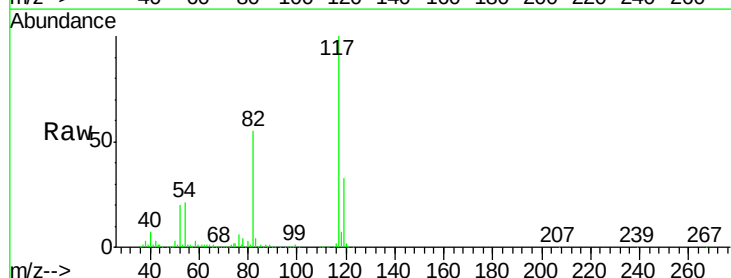
Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#16

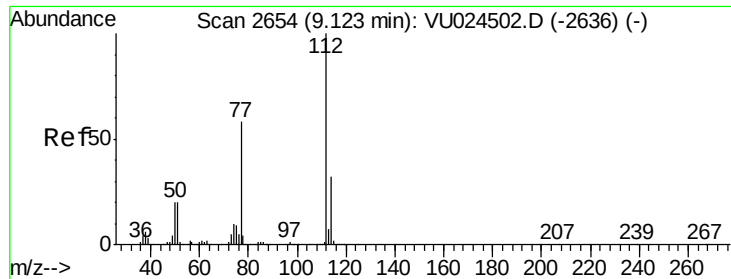
Tgt Ion: 95 Resp: 183472
Ion Ratio Lower Upper
95 100
174 82.2 0.0 165.8
176 79.8 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024517.D
Acq: 13 Jun 2018 18:55

Tgt Ion: 117 Resp: 303862
Ion Ratio Lower Upper
117 100
82 55.0 44.3 66.5
119 32.5 25.4 38.2





#65

Chlorobenzene

Concen: 0.61 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

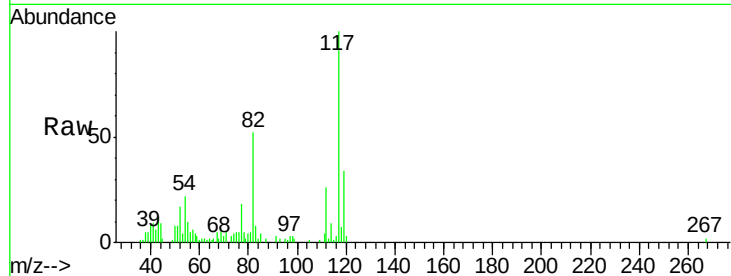
PB110190ZHE#16

Tgt Ion:112 Resp: 4737

Ion Ratio Lower Upper

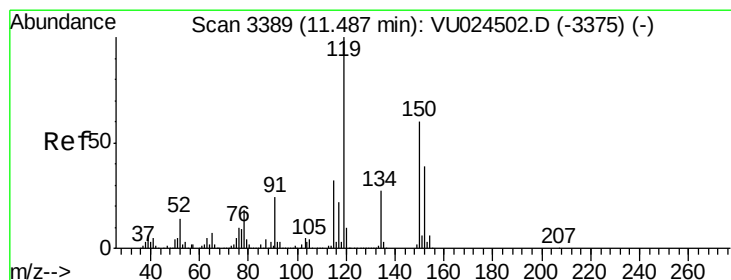
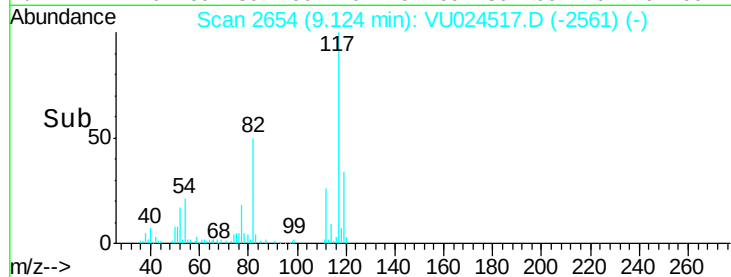
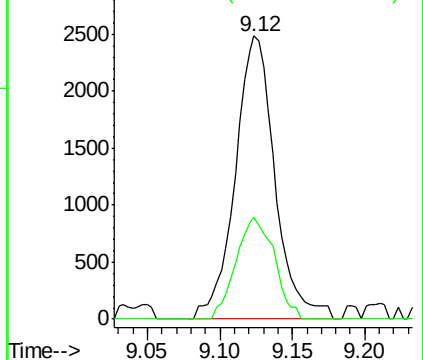
112 100

114 35.8 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024517.D

Acq: 13 Jun 2018 18:55

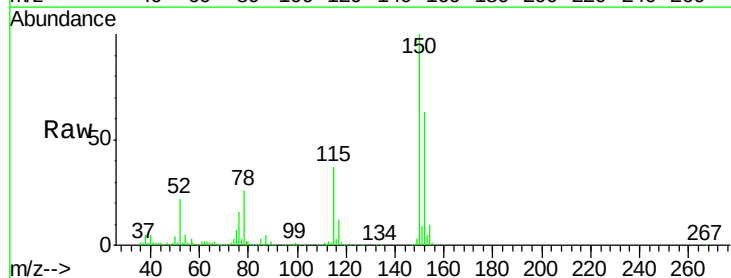
Tgt Ion:152 Resp: 175777

Ion Ratio Lower Upper

152 100

115 58.5 43.0 129.0

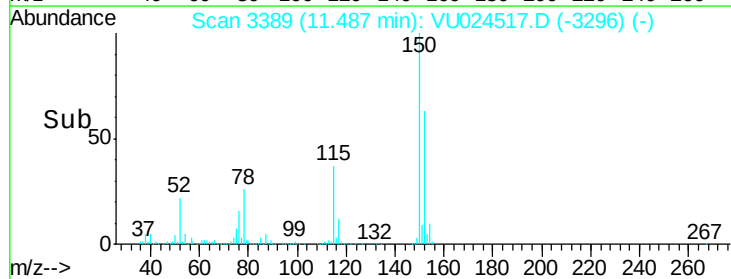
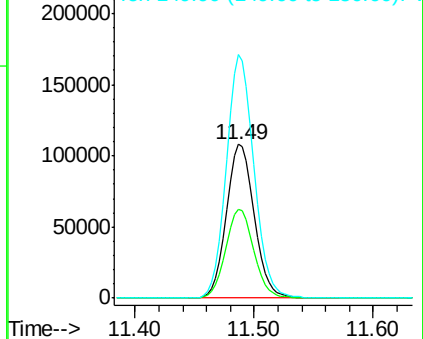
150 156.7 0.0 354.0

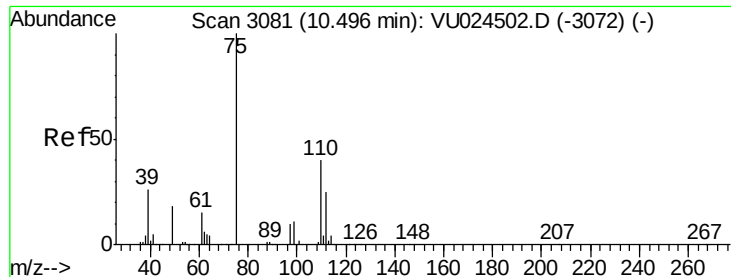


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

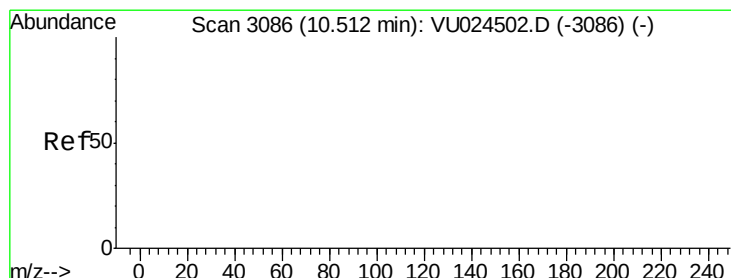
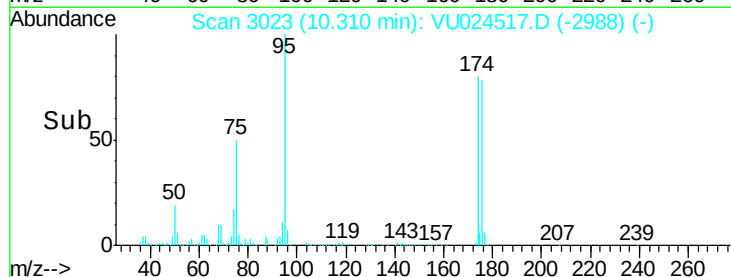
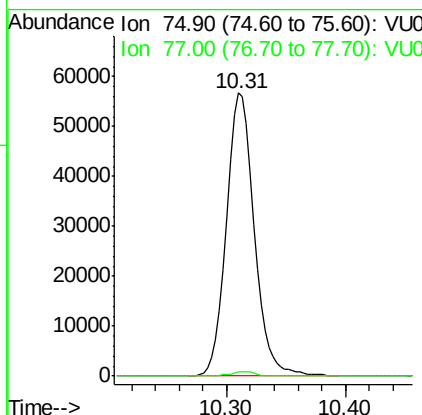
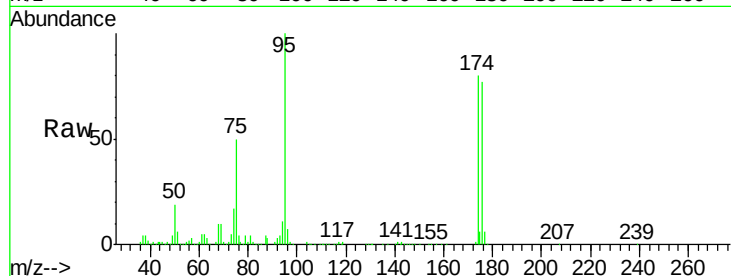




#76
 1,2,3-Trichloropropane
 Concen: 23.83 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024517.D
 Acq: 13 Jun 2018 18:55

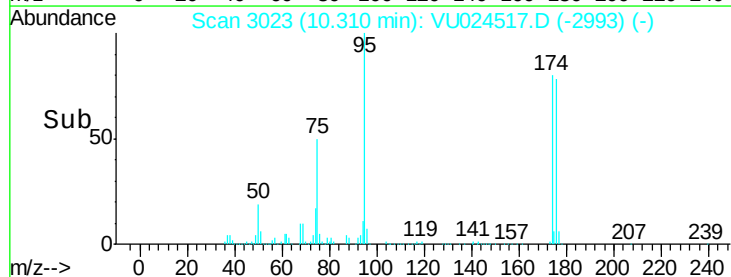
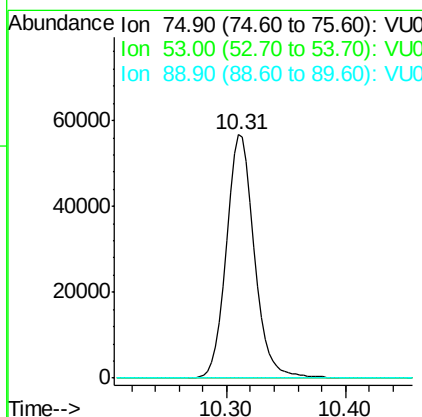
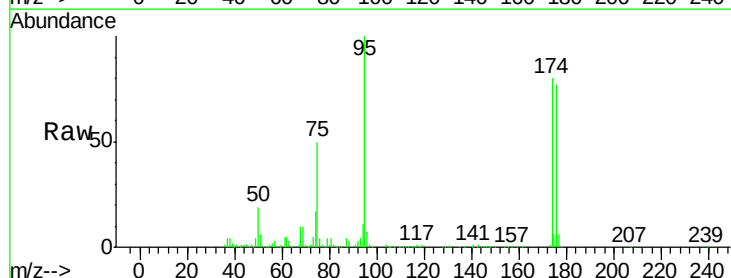
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#16

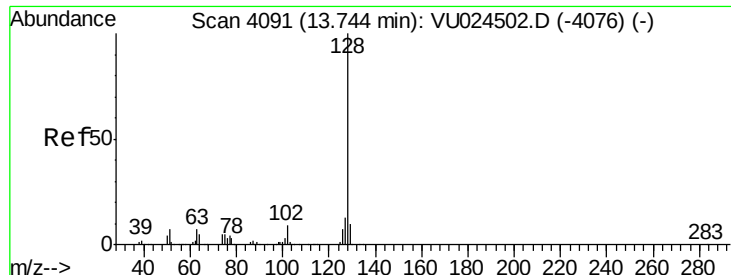
Tgt Ion: 75 Resp: 92220
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.15 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024517.D
 Acq: 13 Jun 2018 18:55

Tgt Ion: 75 Resp: 92220
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.70 ug/l

RT: 13.77 min Scan# 4099

Delta R.T. 0.03 min

Lab File: VU024517.D

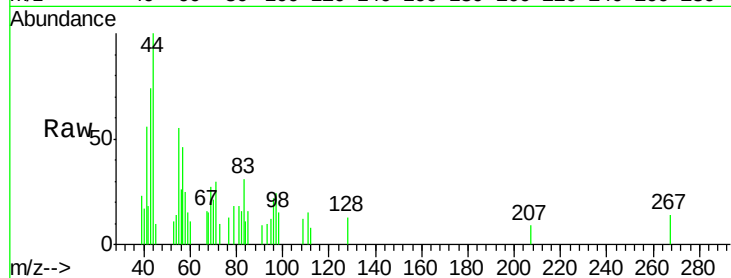
Acq: 13 Jun 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#16



Tgt Ion:128 Resp: 226

Ion Ratio Lower Upper

128 100

127 9.7 10.6 16.0#

129 20.4 8.6 12.8#

