

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\
 Data File : VU025742.D
 Acq On : 31 Jul 2018 16:35
 Operator : MD/SY
 Sample : J4040-03ME
 Misc : 4.97g/5.0mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AE8

Quant Time: Jul 31 16:54:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	186045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	295111	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	294403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	189355	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	141419	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	4.88	113	117551	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
50) Toluene-d8	7.57	98	427001	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
62) 4-Bromofluorobenzene	10.31	95	178739	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	

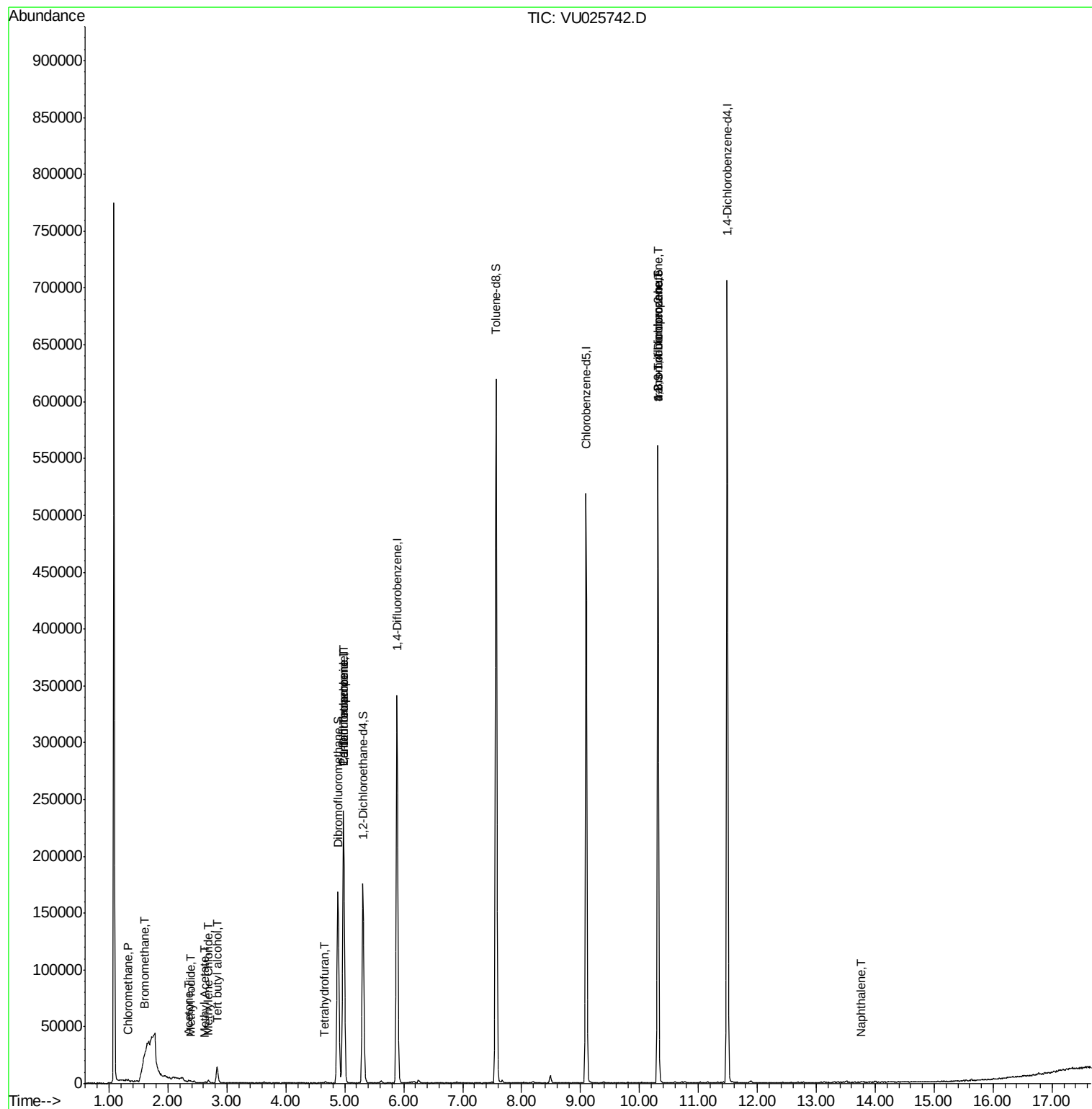
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1194	0.444	ug/l	97
5) Bromomethane	1.60	94	727	0.589	ug/l #	74
10) Methyl Iodide	2.39	142	787	8.925	ug/l #	78
11) Tert butyl alcohol	2.84	59	8827	13.908	ug/l #	73
13) Acrolein	2.20	56	70	Below Cal	#	74
16) Acetone	2.35	43	1319	0.933	ug/l	97
18) Methyl Acetate	2.63	43	928	0.273	ug/l #	52
20) Methylene Chloride	2.69	84	1159	0.463	ug/l #	69
29) Tetrahydrofuran	4.66	42	656	0.569	ug/l #	75
31) Cyclohexane	4.98	56	3768	Below Cal	#	11
36) 1,1-Dichloropropene	4.98	75	13811	4.005	ug/l #	49
38) Carbon Tetrachloride	4.98	117	17759	4.546	ug/l #	16
76) 1,2,3-Trichloropropane	10.31	75	91451	21.920	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	91451	54.963	ug/l #	100
95) Naphthalene	13.76	128	645	1.295	ug/l #	69

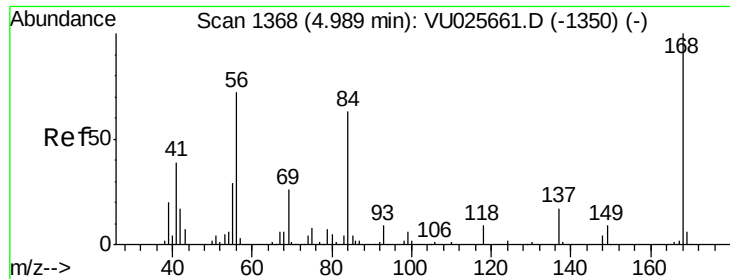
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

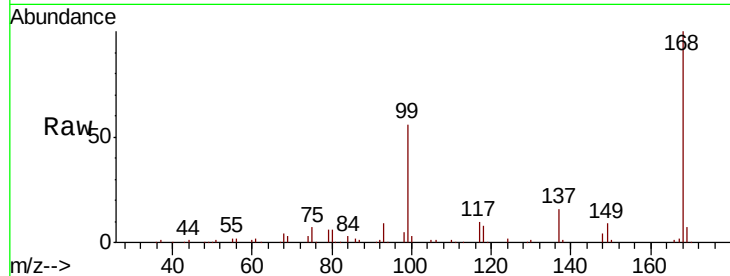
C0AE8

Tot Ion:168 Resp: 186045

Ion Ratio Lower Upper

168 100

99 56.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)

4.98

80000

60000

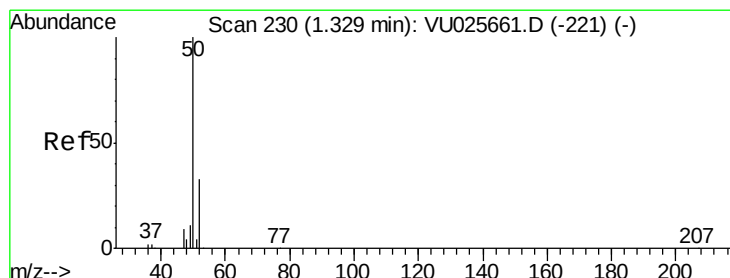
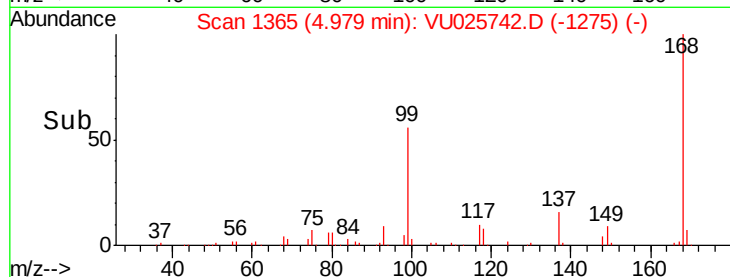
40000

20000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: 0.444 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU025742.D

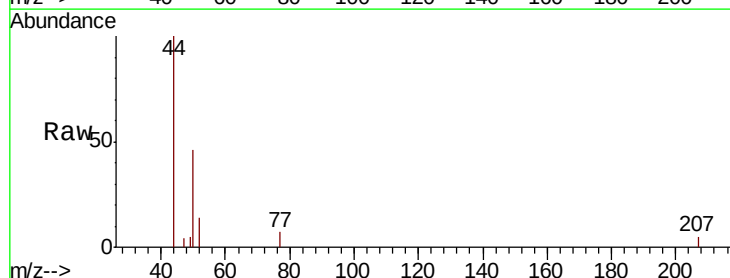
Acq: 31 Jul 2018 16:35

Tgt Ion: 50 Resp: 1194

Ion Ratio Lower Upper

50 100

52 31.5 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025661.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025661.D (-221) (-)

1.32

1200

1000

800

600

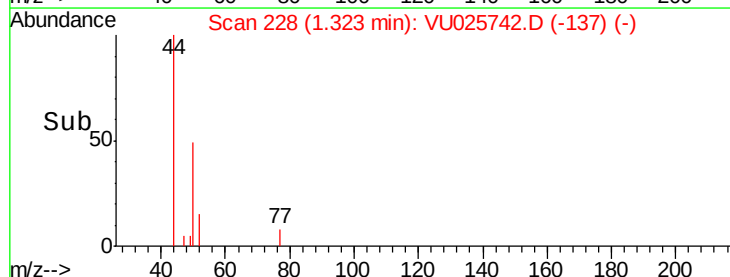
400

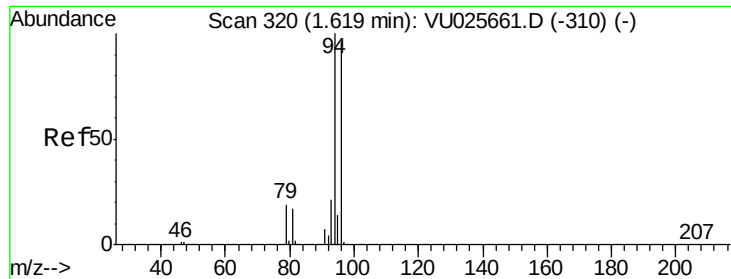
200

0

Time-->

1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.589 ug/l

RT: 1.60 min Scan# 314

Delta R.T. -0.02 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

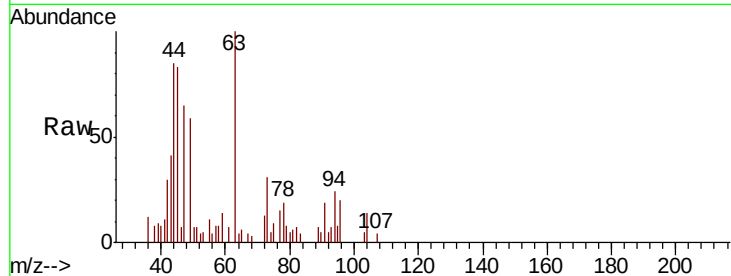
C0AE8

Tot Ion: 94 Resp: 727

Ion Ratio Lower Upper

94 100

96 69.0 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.60

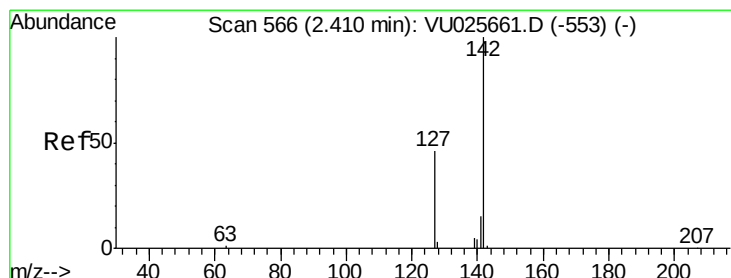
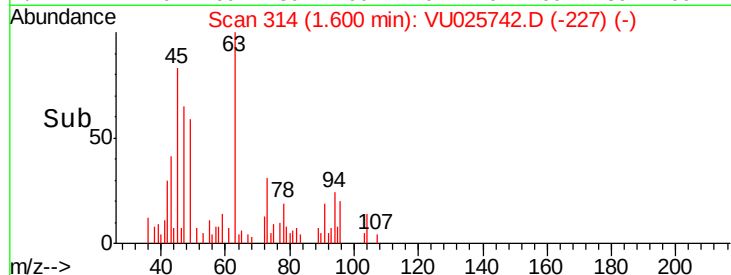
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 8.925 ug/l

RT: 2.39 min Scan# 560

Delta R.T. -0.02 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

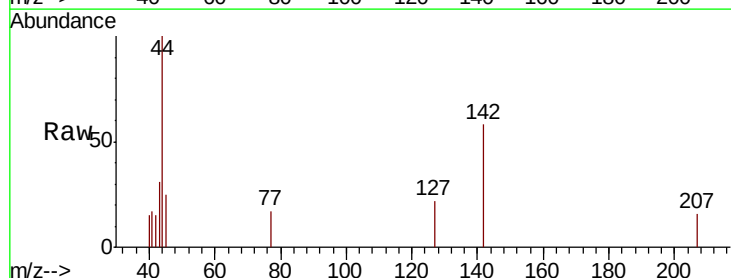
Tgt Ion: 142 Resp: 787

Ion Ratio Lower Upper

142 100

127 34.1 36.5 54.7#

141 0.0 11.4 17.2#



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

2.39

600

500

400

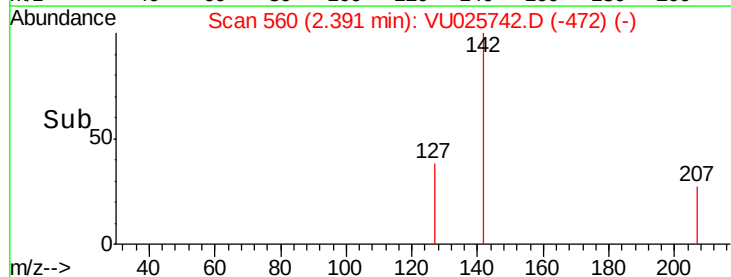
300

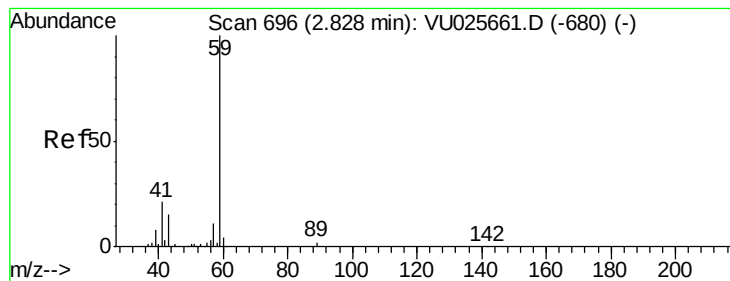
200

100

0

Time-->



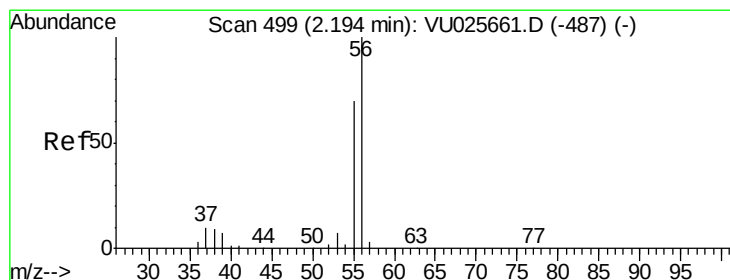
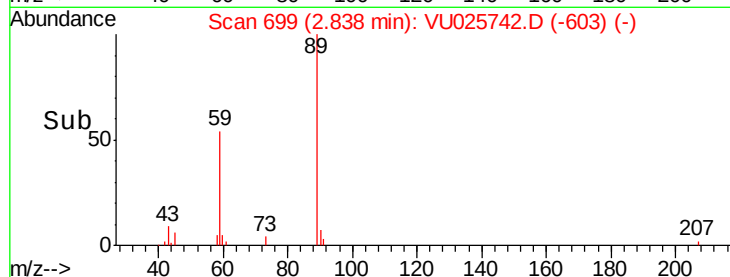
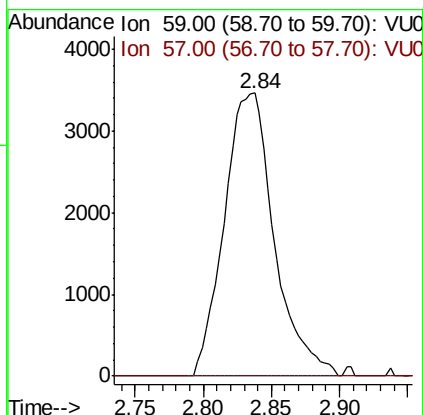
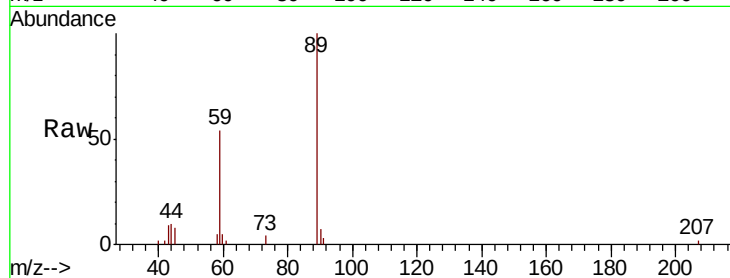


#11

Tert butyl alcohol
 Concen: 13.908 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU025742.D
 Acq: 31 Jul 2018 16:35

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AE8

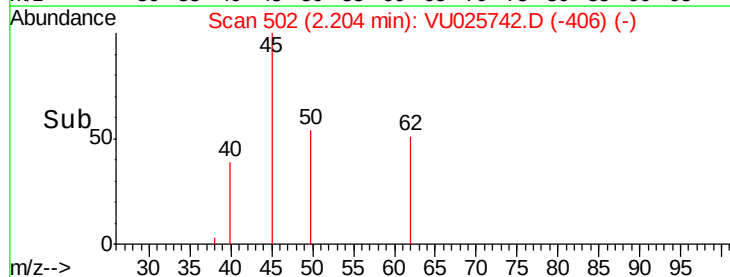
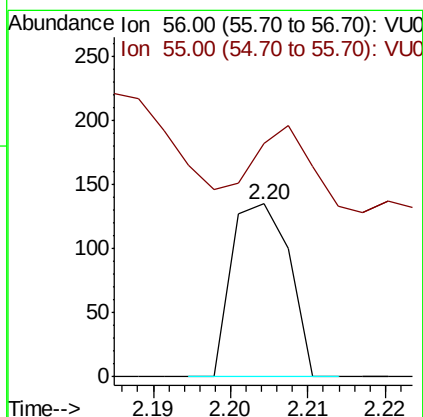
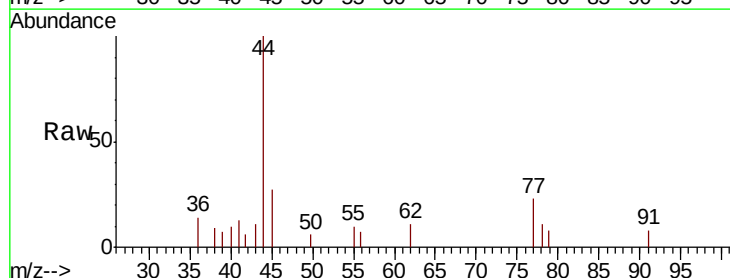
Tot Ion: 59 Resp: 8827
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

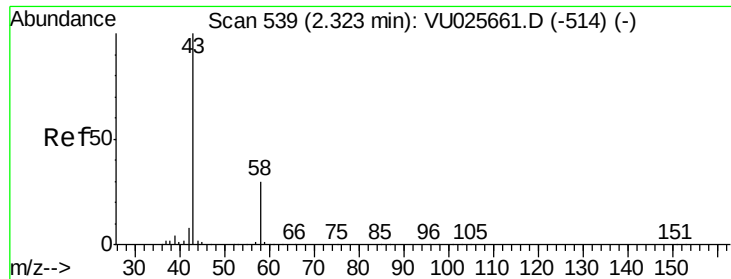


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 502
 Delta R.T. 0.01 min
 Lab File: VU025742.D
 Acq: 31 Jul 2018 16:35

Tgt Ion: 56 Resp: 70
 Ion Ratio Lower Upper
 56 100
 55 50.0 57.2 85.8#





#16

Acetone

Concen: 0.933 ug/l

RT: 2.35 min Scan# 546

Delta R.T. 0.02 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

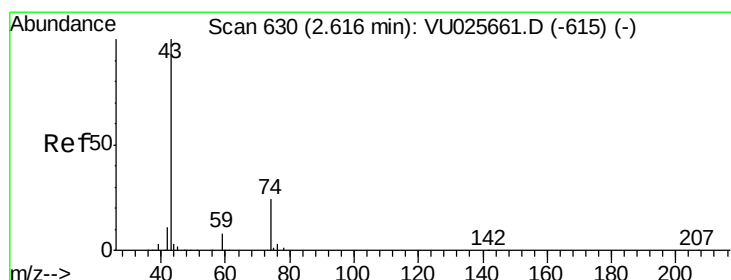
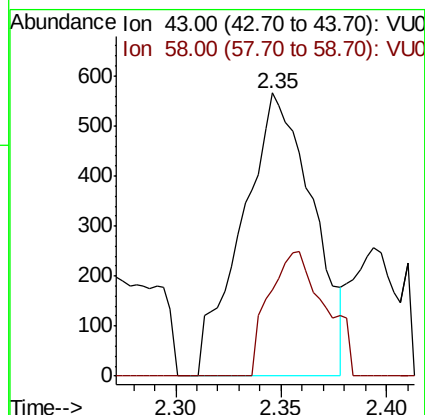
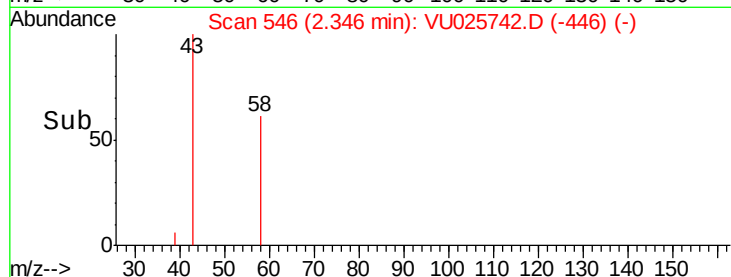
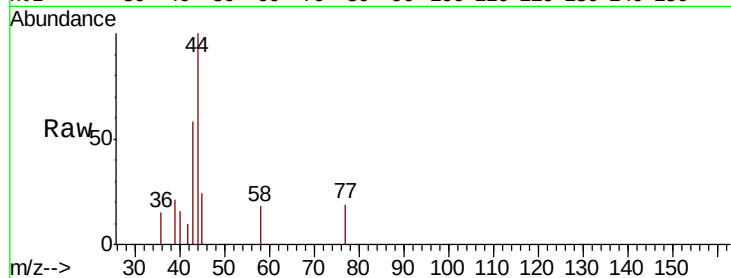
C0AE8

Tot Ion: 43 Resp: 1319

Ion Ratio Lower Upper

43 100

58 30.4 23.1 34.7



#18

Methyl Acetate

Concen: 0.273 ug/l

RT: 2.63 min Scan# 635

Delta R.T. 0.02 min

Lab File: VU025742.D

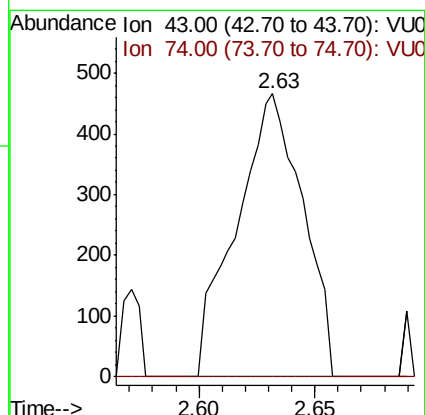
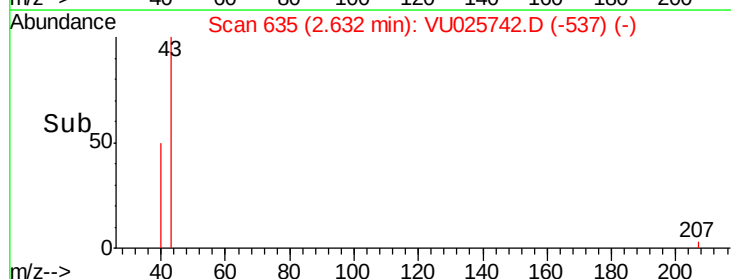
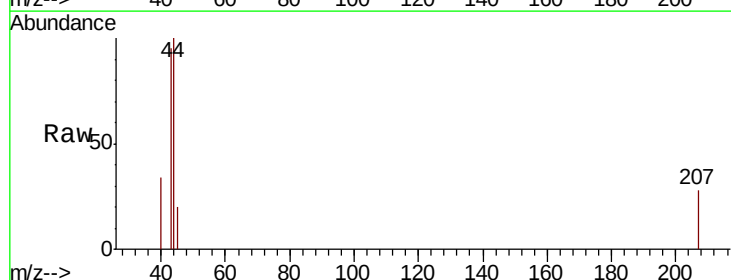
Acq: 31 Jul 2018 16:35

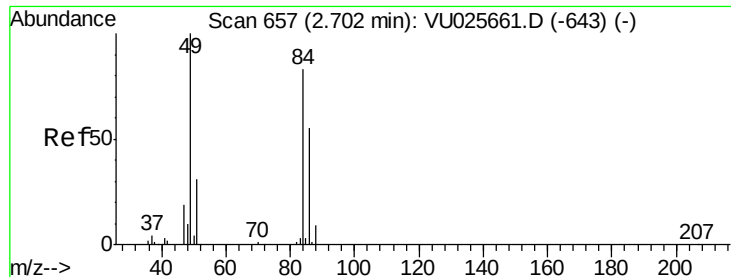
Tgt Ion: 43 Resp: 928

Ion Ratio Lower Upper

43 100

74 0.0 18.5 27.7#





#20

Methylene Chloride

Concen: 0.463 ug/l

RT: 2.69 min Scan# 654

Delta R.T. -0.01 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

C0AE8

Tot Ion: 84 Resp: 1159

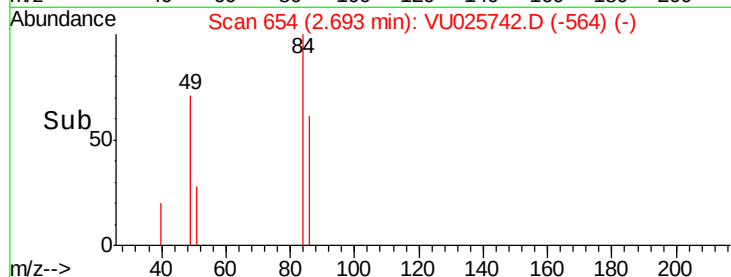
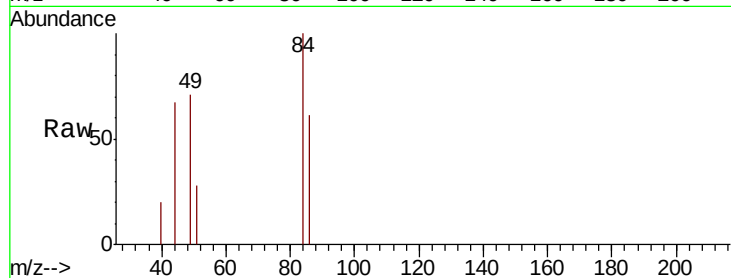
Ion Ratio Lower Upper

84 100

49 70.8 101.8 152.6#

51 28.4 30.8 46.2#

86 61.3 51.9 77.9

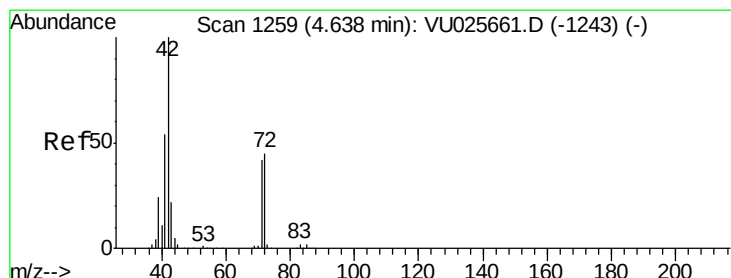
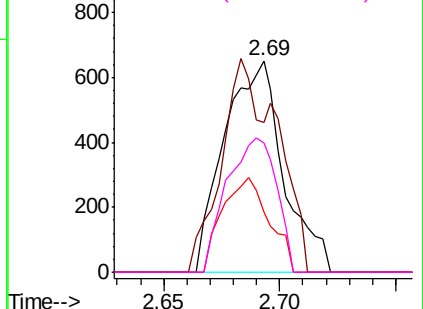


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#29

Tetrahydrofuran

Concen: 0.569 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

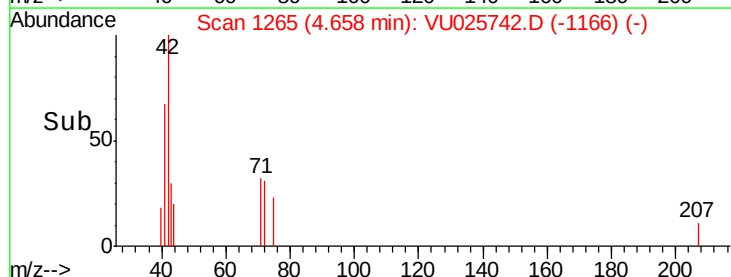
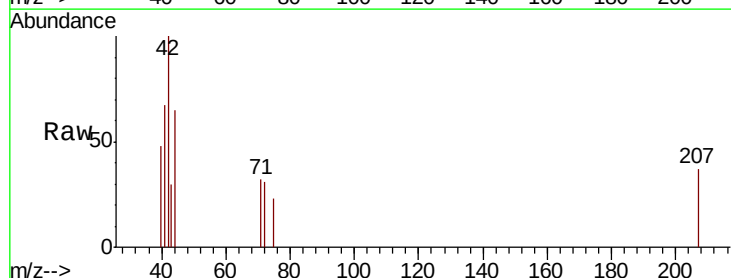
Tgt Ion: 42 Resp: 656

Ion Ratio Lower Upper

42 100

72 24.2 36.7 55.1#

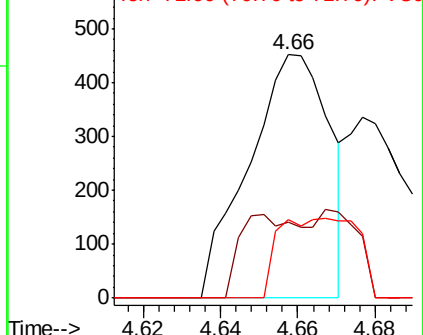
71 32.5 33.9 50.9#

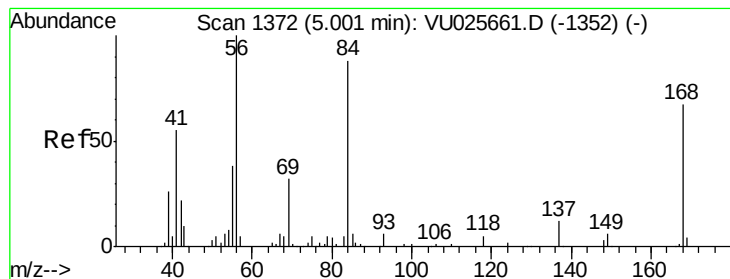


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

C0AE8

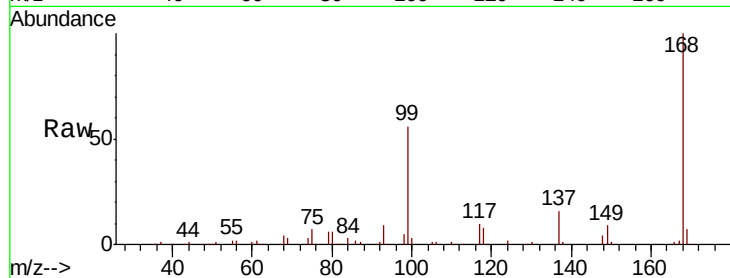
Tot Ion: 56 Resp: 3768

Ion Ratio Lower Upper

56 100

69 148.3 26.8 40.2#

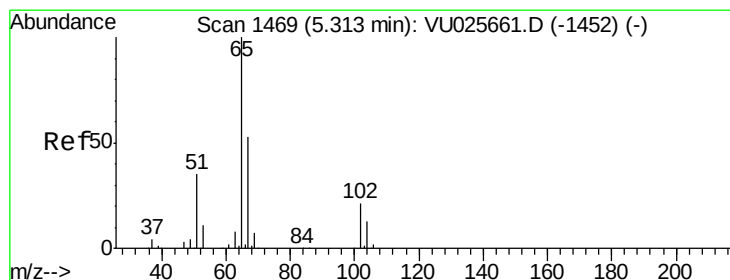
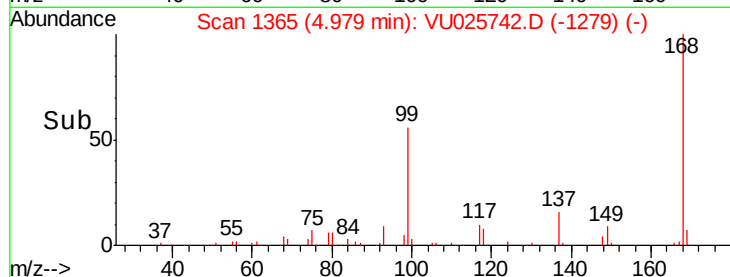
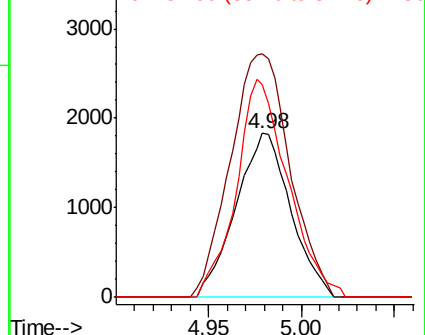
84 129.4 69.7 104.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 48.786 ug/l

RT: 5.31 min Scan# 1467

Delta R.T. -0.01 min

Lab File: VU025742.D

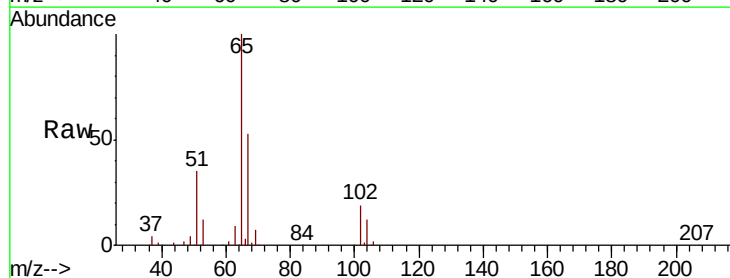
Acq: 31 Jul 2018 16:35

Tgt Ion: 65 Resp: 141419

Ion Ratio Lower Upper

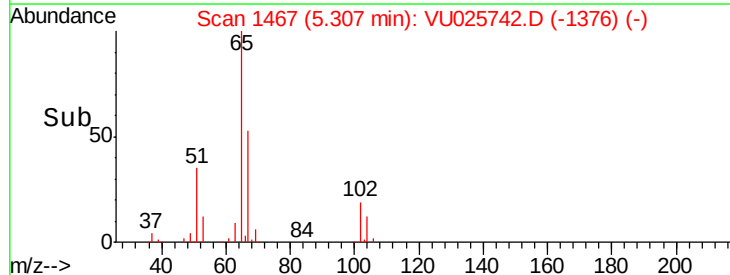
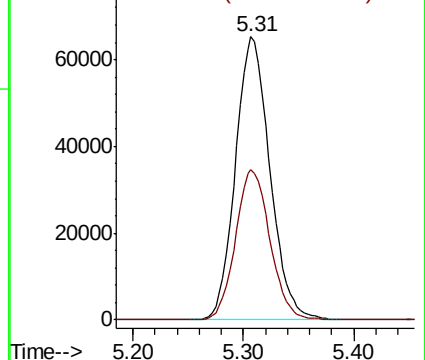
65 100

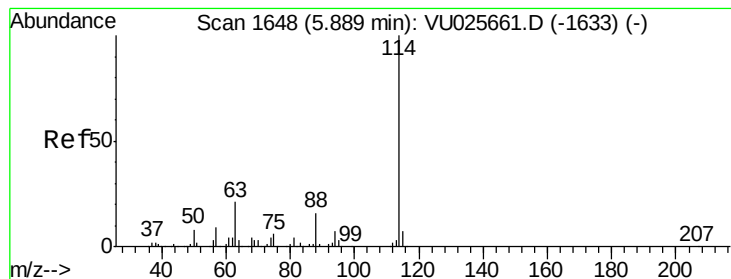
67 53.0 0.0 103.6



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. -0.00 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

C0AE8

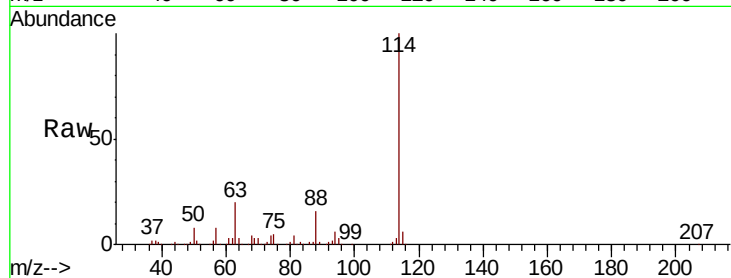
Tot Ion:114 Resp: 295111

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.6

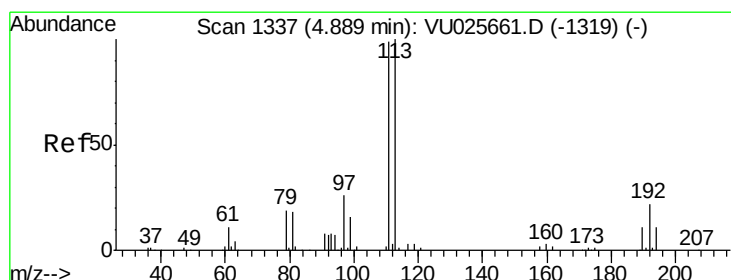
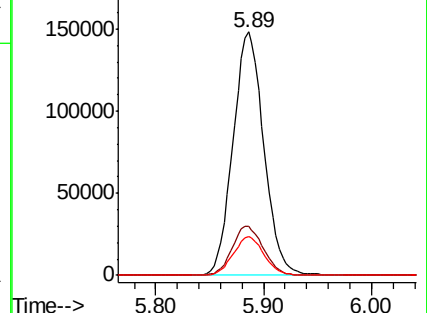
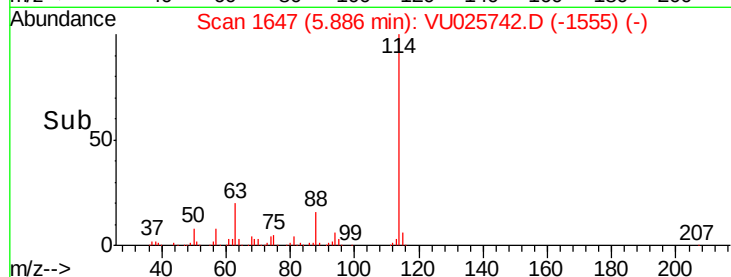
88 15.9 0.0 32.4



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: 45.798 ug/l

RT: 4.88 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

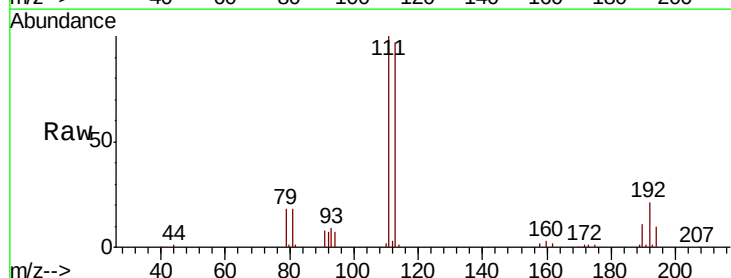
Tgt Ion:113 Resp: 117551

Ion Ratio Lower Upper

113 100

111 103.2 81.7 122.5

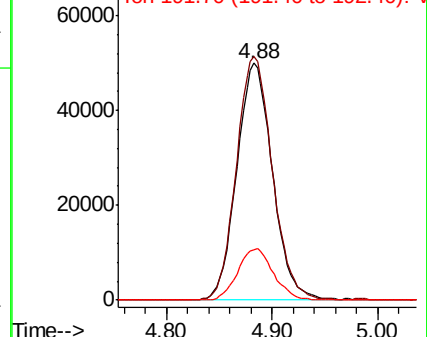
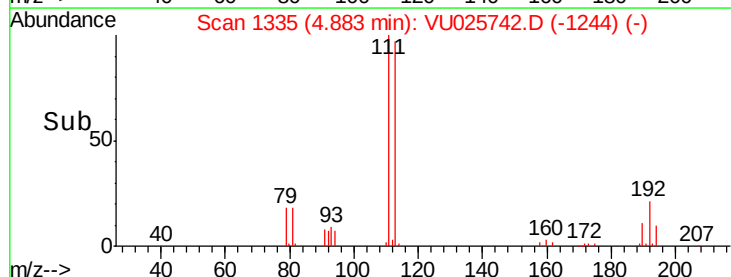
192 21.7 17.1 25.7

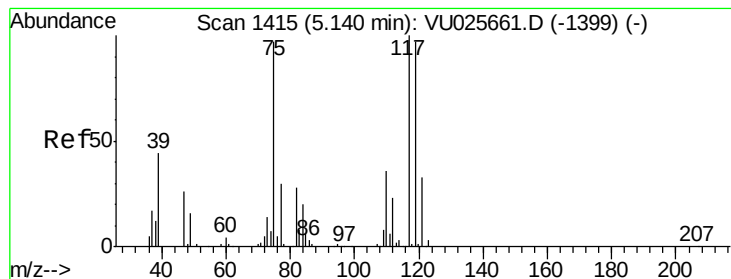


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.005 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

C0AE8

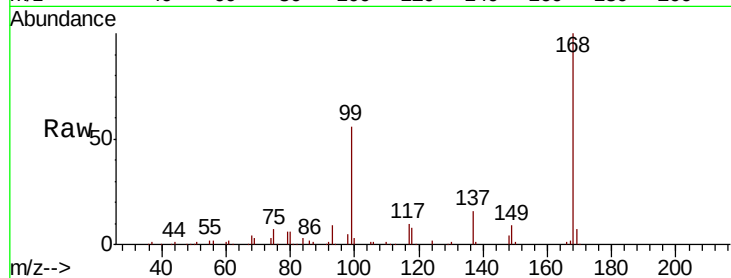
Tot Ion: 75 Resp: 13811

Ion Ratio Lower Upper

75 100

110 7.6 17.6 52.9#

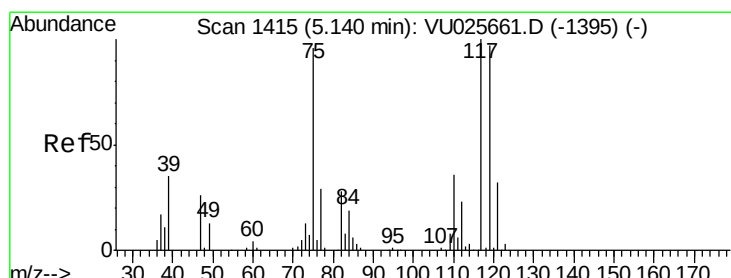
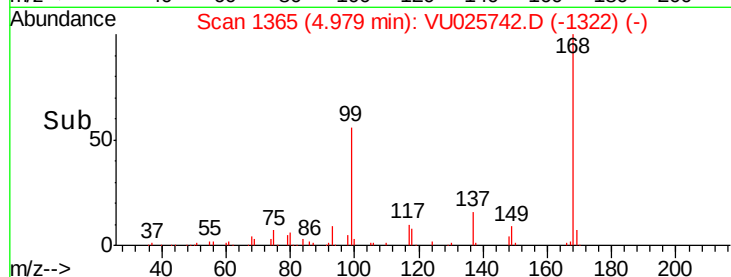
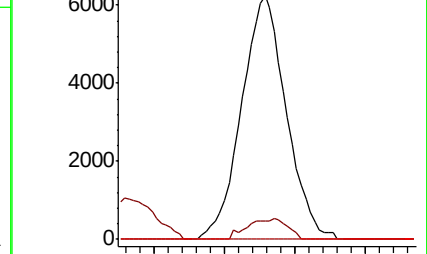
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VU025661.D (-1399) (-)

Ion 109.90 (109.60 to 110.60): VU025661.D (-1399) (-)

Ion 76.90 (76.60 to 77.60): VU025661.D (-1399) (-)



#38

Carbon Tetrachloride

Concen: 4.546 ug/l

RT: 4.98 min Scan# 1364

Delta R.T. -0.16 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

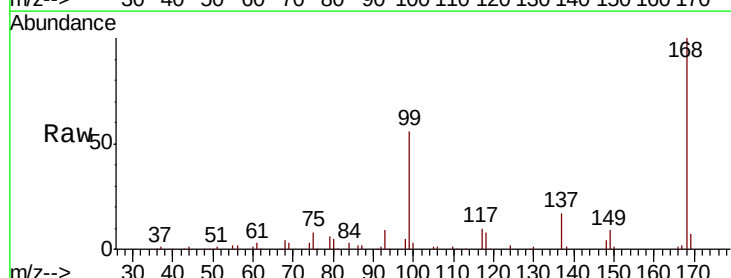
Tgt Ion: 117 Resp: 17759

Ion Ratio Lower Upper

117 100

119 4.1 75.7 113.5#

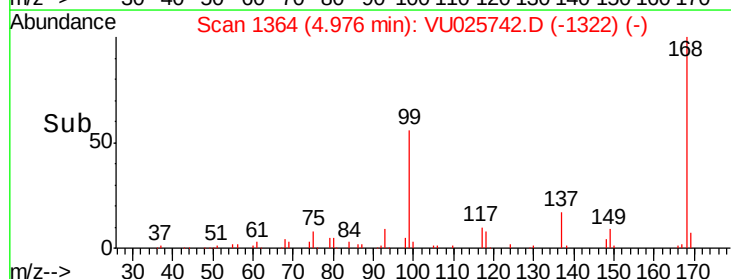
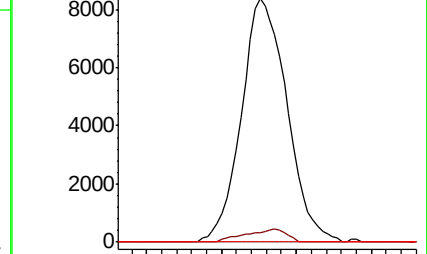
121 0.0 24.6 36.8#

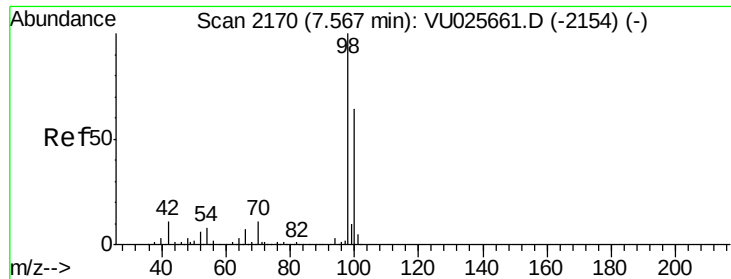


Abundance Ion 116.80 (116.50 to 117.50): VU025661.D (-1395) (-)

Ion 118.80 (118.50 to 119.50): VU025661.D (-1395) (-)

Ion 120.80 (120.50 to 121.50): VU025661.D (-1395) (-)

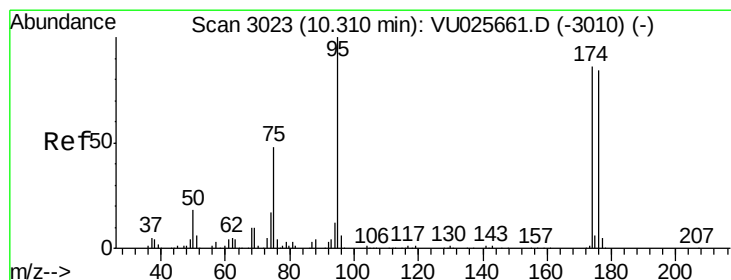
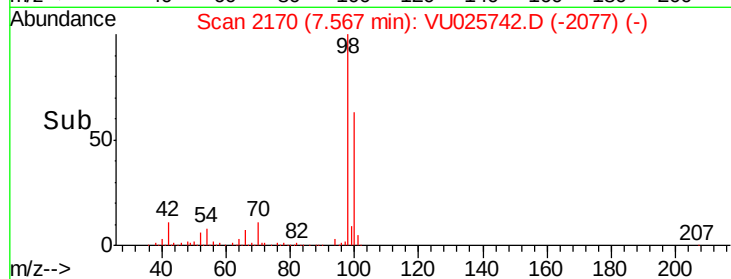
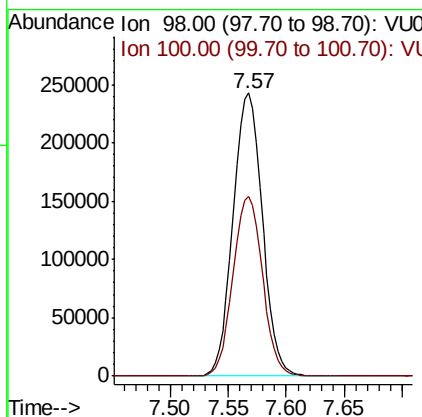
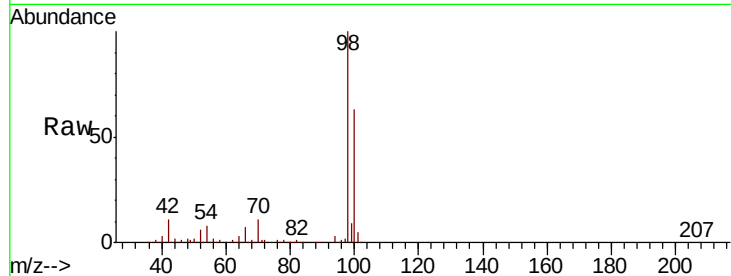




#50
Toluene-d8
Concen: 47.540 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025742.D
Acq: 31 Jul 2018 16:35

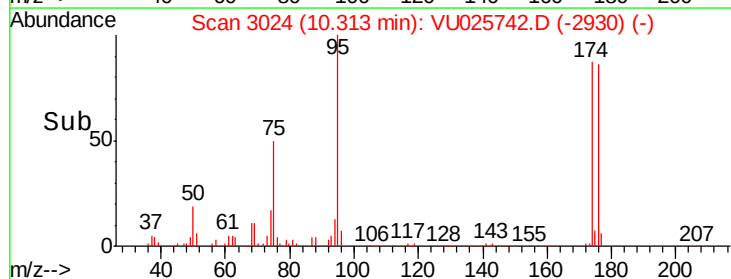
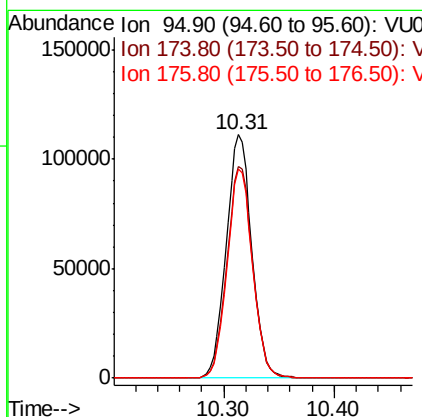
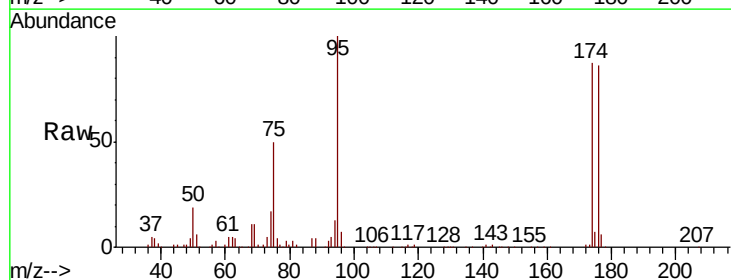
Instrument :
MSVOA_U
ClientSampled :
C0AE8

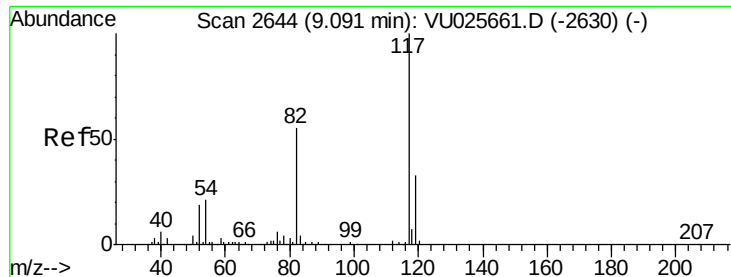
Tot Ion: 98 Resp: 427001
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 51.270 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU025742.D
Acq: 31 Jul 2018 16:35

Tgt Ion: 95 Resp: 178739
Ion Ratio Lower Upper
95 100
174 87.7 0.0 172.2
176 85.4 0.0 162.6

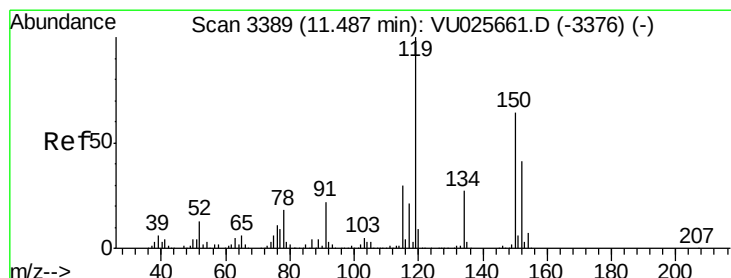
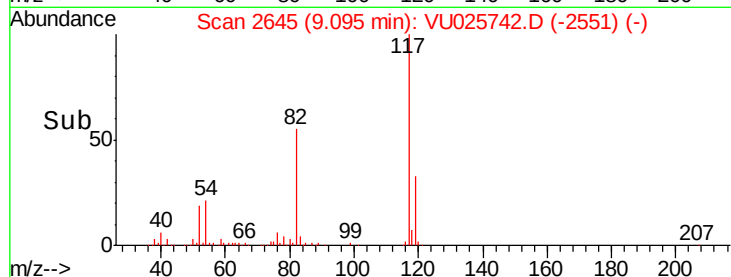
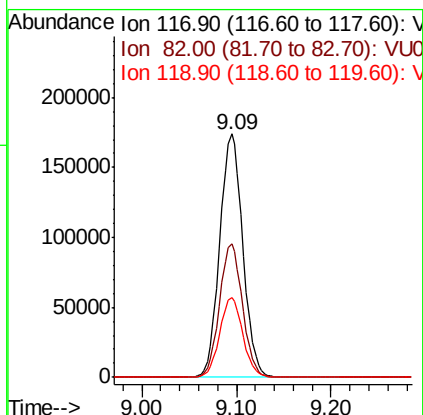
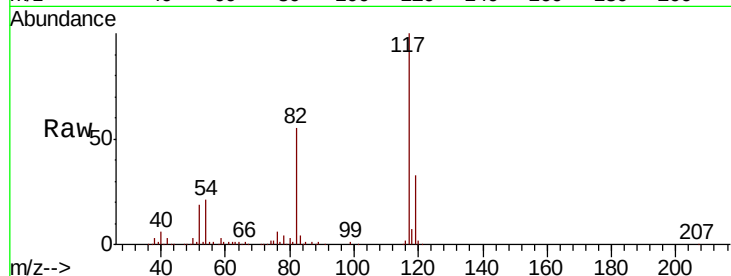




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025742.D
Acq: 31 Jul 2018 16:35

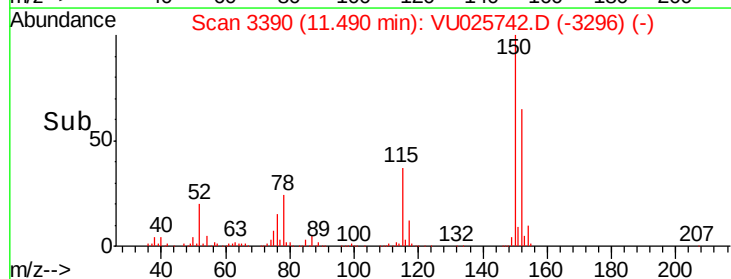
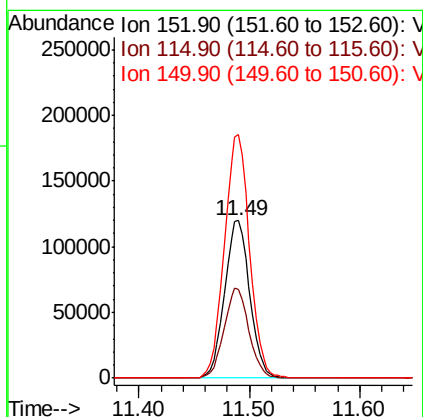
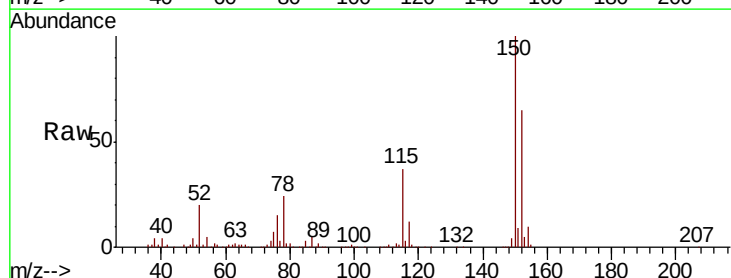
Instrument :
MSVOA_U
ClientSampleId :
C0AE8

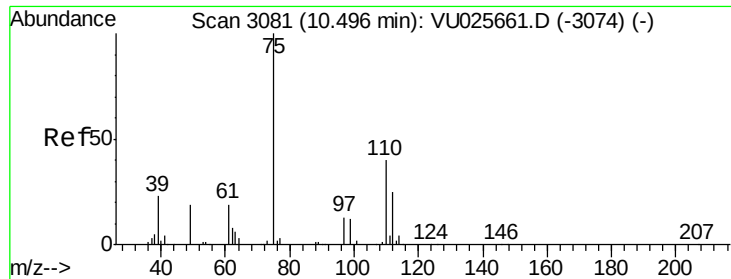
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	46.0	69.0
119	33.0	26.0	39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU025742.D
Acq: 31 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	40.1	120.3
150	154.8	0.0	351.4





#76

1,2,3-Trichloropropane

Concen: 21.920 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampled :

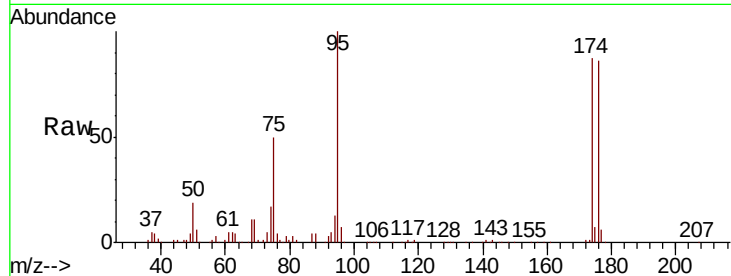
C0AE8

Tot Ion: 75 Resp: 91451

Ion Ratio Lower Upper

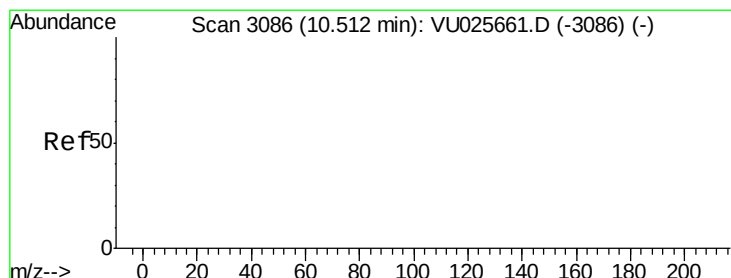
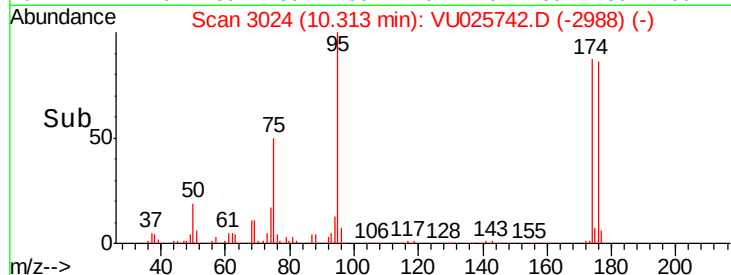
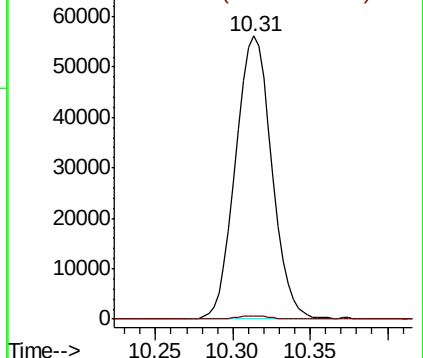
75 100

77 1.1 20.4 61.3#



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: 54.963 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

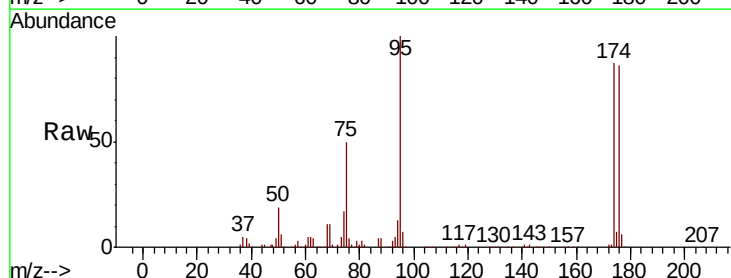
Tgt Ion: 75 Resp: 91451

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

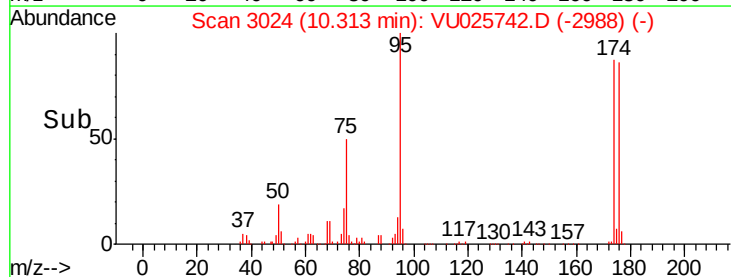
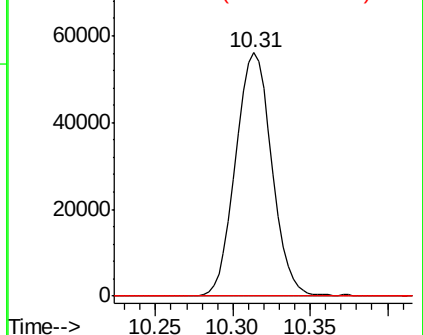
89 0.0 0.0 0.0

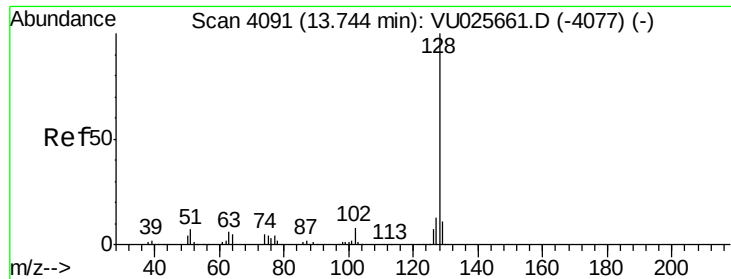


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 1.295 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU025742.D

Acq: 31 Jul 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

C0AE8

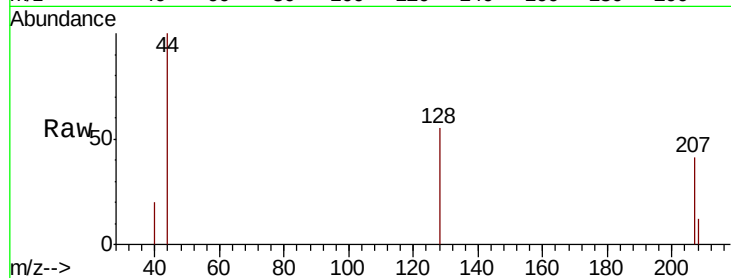
Tot Ion:128 Resp: 645

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

