

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025166.D
 Acq On : 03 Jul 2018 01:47
 Operator : MD/SY
 Sample : J3809-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CARBON-1-062818

Quant Time: Jul 03 03:05:33 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	4.99	168	202885	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	301424	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	277350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	140603	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	152263	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	
35) Dibromofluoromethane	4.89	113	117416	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
50) Toluene-d8	7.57	98	433083	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
62) 4-Bromofluorobenzene	10.31	95	154338	42.60	ug/l	0.00
Spiked Amount			Recovery	=	85.20%	

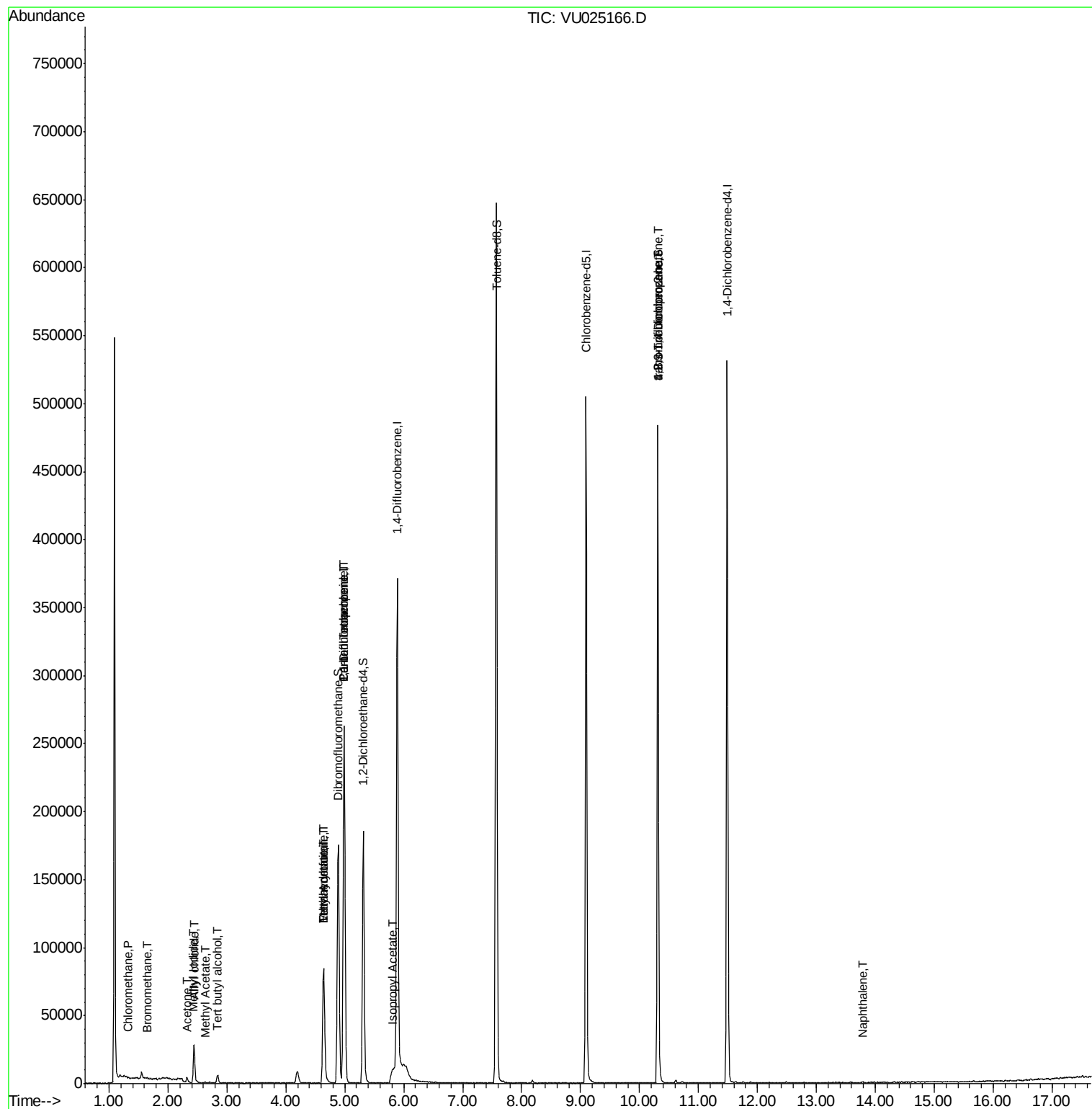
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	570	0.220	ug/l #	71
5) Bromomethane	1.64	94	287	0.222	ug/l #	62
6) Chloroethane	1.75	64	20	Below Cal	#	43
10) Methyl Iodide	2.42	142	152	5.352	ug/l #	40
11) Tert butyl alcohol	2.83	59	3499	4.344	ug/l #	72
14) Allyl chloride	2.44	41	2830	0.660	ug/l #	71
16) Acetone	2.32	43	4026	2.262	ug/l	93
18) Methyl Acetate	2.63	43	1498	0.393	ug/l #	68
29) Tetrahydrofuran	4.64	42	63253	42.730	ug/l	99
31) Cyclohexane	4.98	56	4253	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	14630	4.130	ug/l #	47
37) Ethyl Acetate	4.64	43	13584	3.519	ug/l #	75
38) Carbon Tetrachloride	4.99	117	19124	4.910	ug/l #	16
41) Methacrylonitrile	4.64	41	37675	18.101	ug/l #	46
43) Isopropyl Acetate	5.81	43	9647	1.446	ug/l #	62
76) 1,2,3-Trichloropropane	10.31	75	83387	26.938	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	83387	62.345	ug/l #	100
95) Naphthalene	13.78	128	733	0.749	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :

MSVOA_U

ClientSampleId :

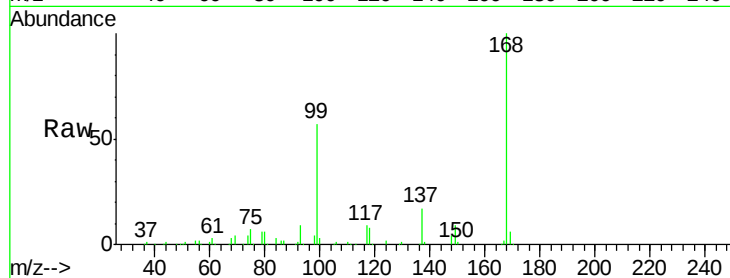
CARBON-1-062818

Tot Ion:168 Resp: 202885

Ion Ratio Lower Upper

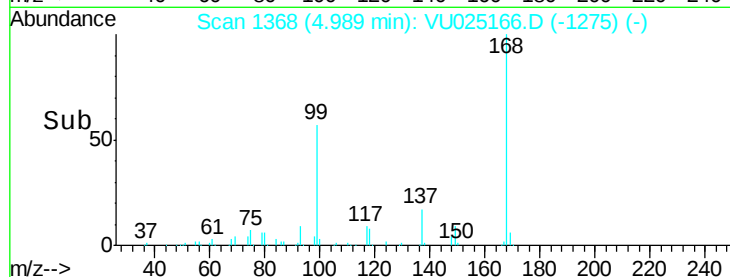
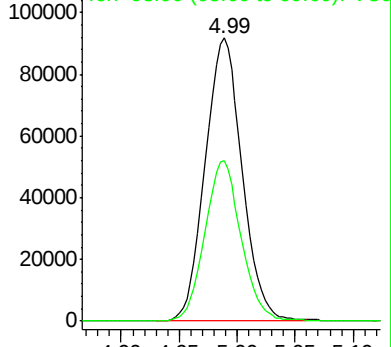
168 100

99 56.9 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D



#3

Chloromethane

Concen: 0.220 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025166.D

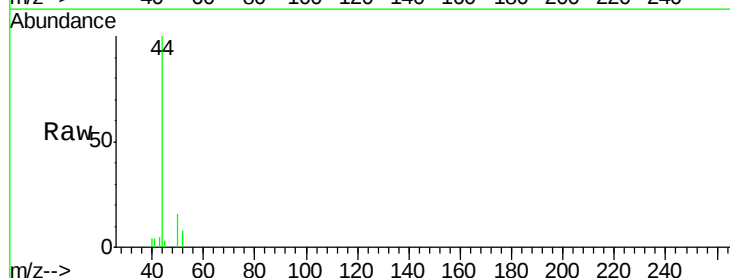
Acq: 03 Jul 2018 01:47

Tgt Ion: 50 Resp: 570

Ion Ratio Lower Upper

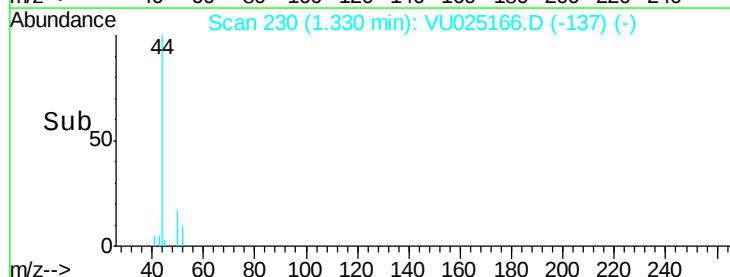
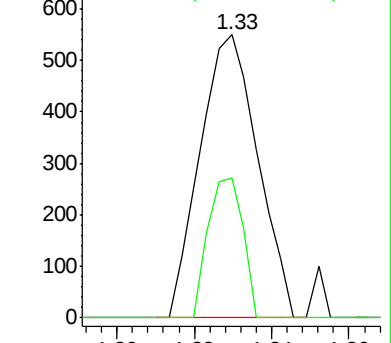
50 100

52 49.6 26.4 39.6#



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

Ion 51.90 (51.60 to 52.60): VU024502.D





#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :

MSVOA_U

ClientSampleId :

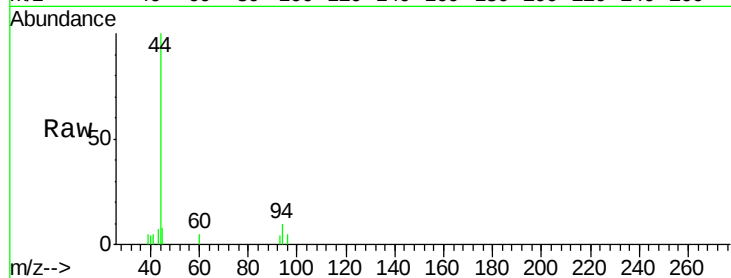
CARBON-1-062818

Tot Ion: 94 Resp: 287

Ion Ratio Lower Upper

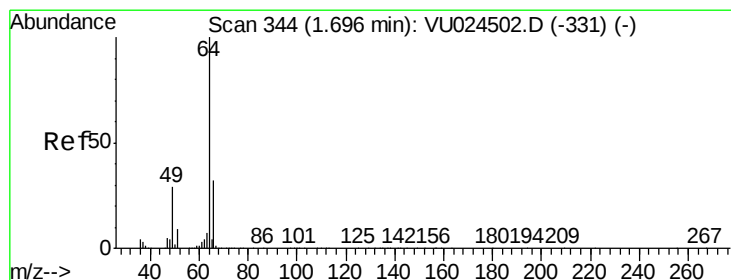
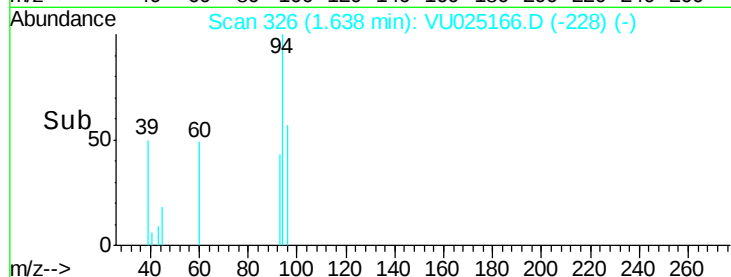
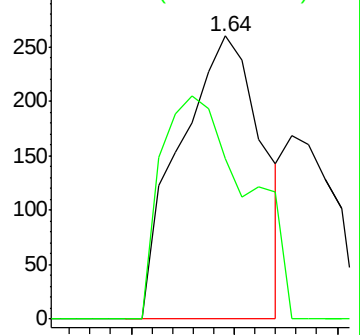
94 100

96 56.5 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 360

Delta R.T. 0.05 min

Lab File: VU025166.D

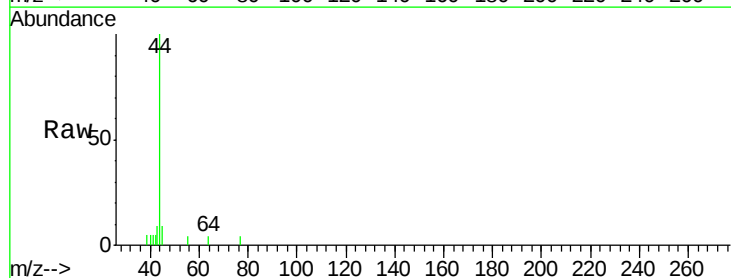
Acq: 03 Jul 2018 01:47

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

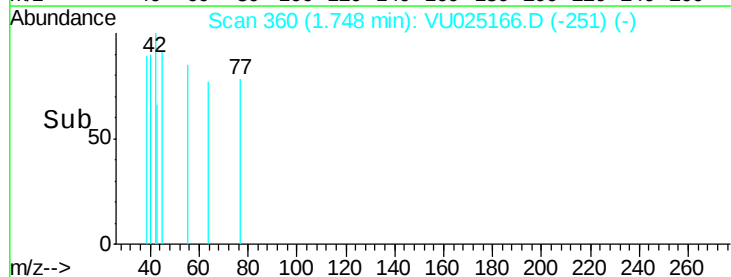
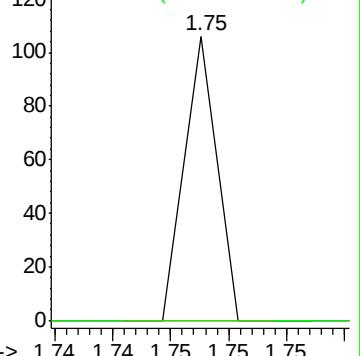
64 100

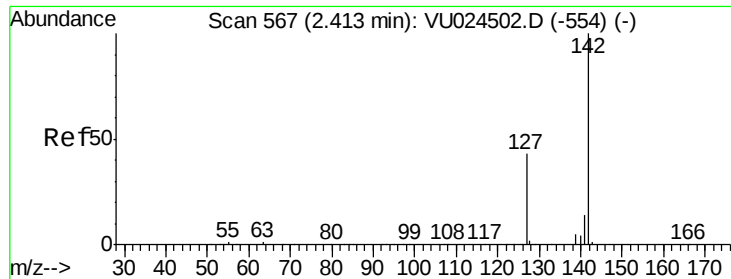
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

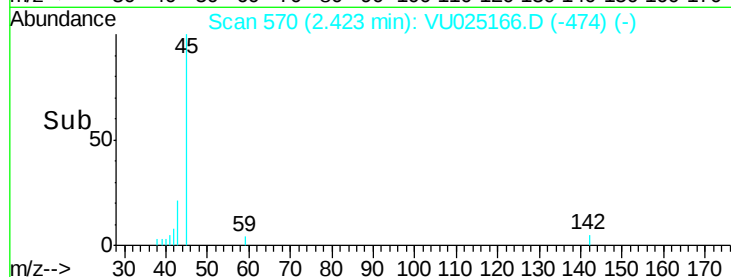
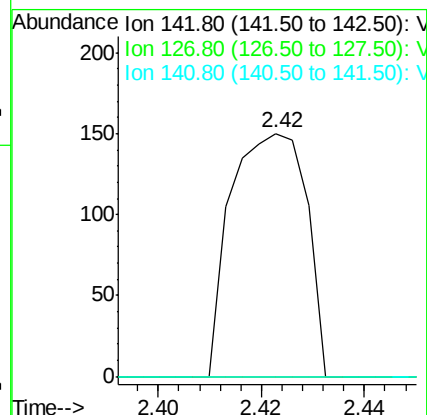
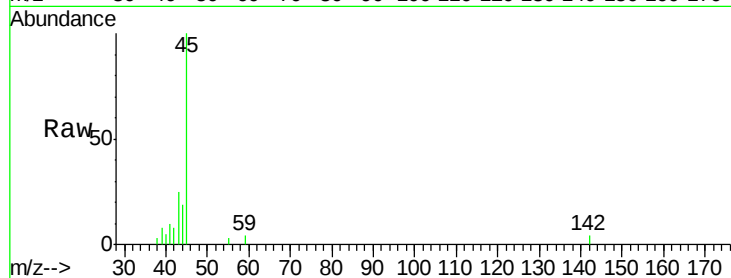




#10
Methvl Iodide
Concen: 5.352 ug/l
RT: 2.42 min Scan# 570
Delta R.T. 0.01 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

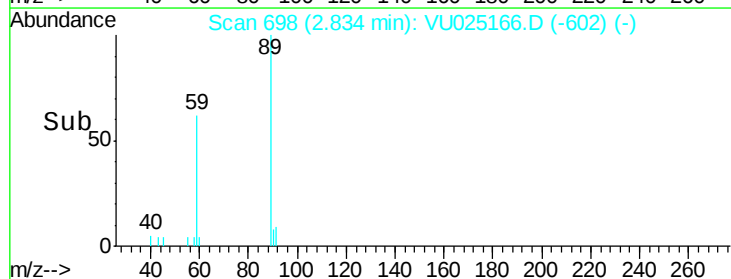
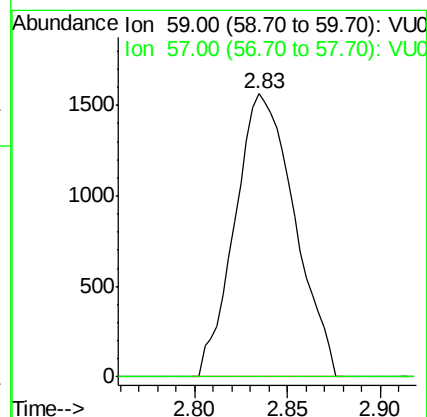
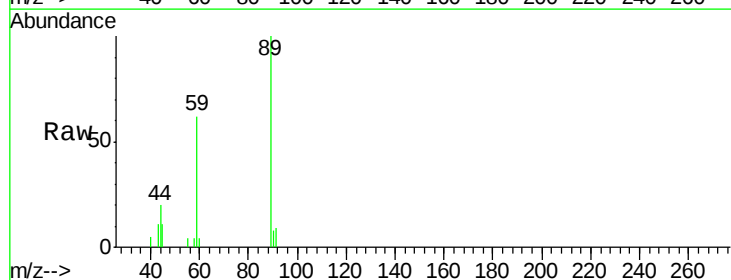
Instrument :
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ClientSampleId :
CARBON-1-062818

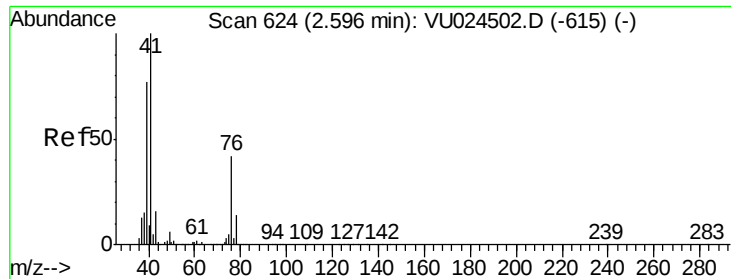
Tot Ion:142 Resp: 152
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 4.344 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

Tgt Ion: 59 Resp: 3499
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#14

Allvl chloride

Concen: 0.660 ug/l

RT: 2.44 min Scan# 576

Delta R.T. -0.15 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :

MSVOA_U

ClientSampleId :

CARBON-1-062818

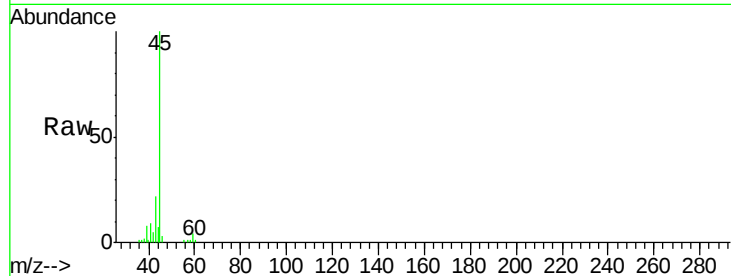
Tot Ion: 41 Resp: 2830

Ion Ratio Lower Upper

41 100

39 88.4 61.6 92.4

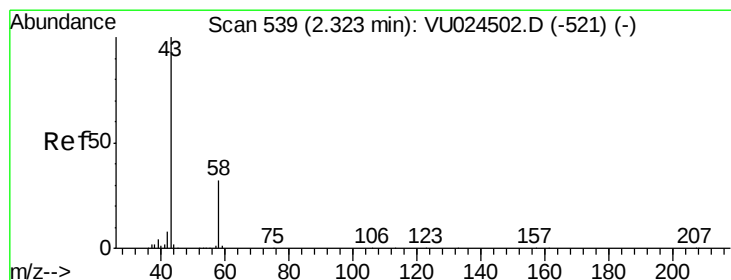
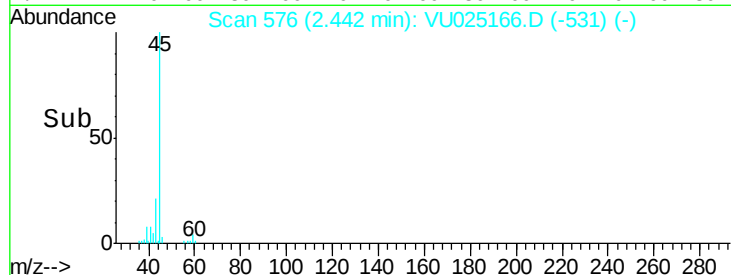
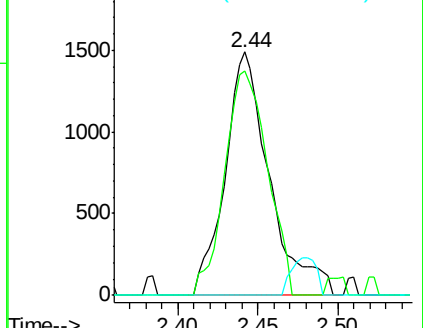
76 0.0 29.7 44.5#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0



#16

Acetone

Concen: 2.262 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025166.D

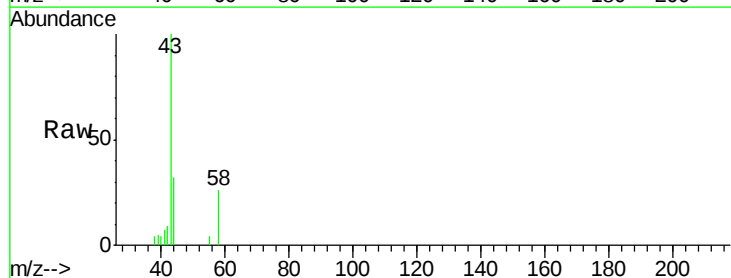
Acq: 03 Jul 2018 01:47

Tgt Ion: 43 Resp: 4026

Ion Ratio Lower Upper

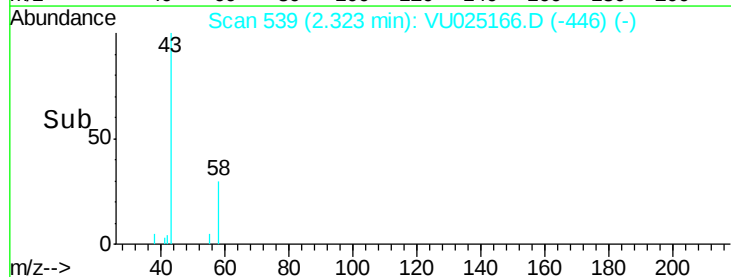
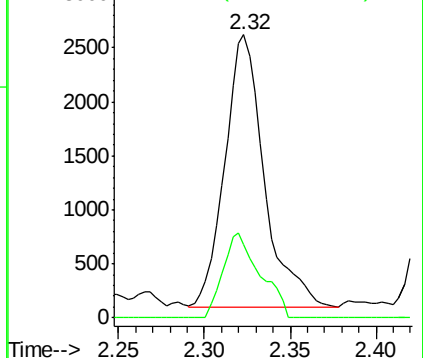
43 100

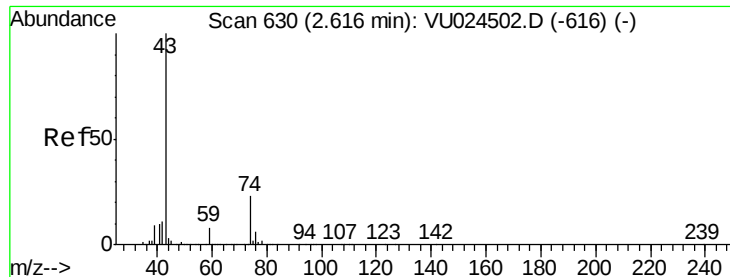
58 26.9 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

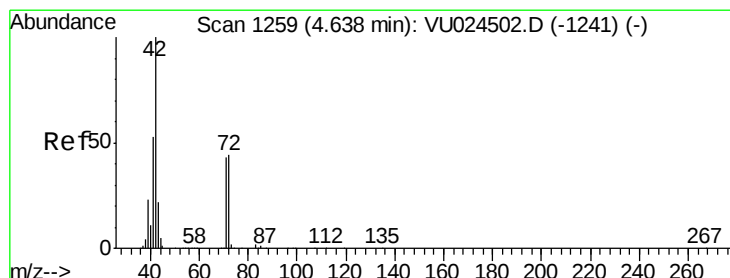
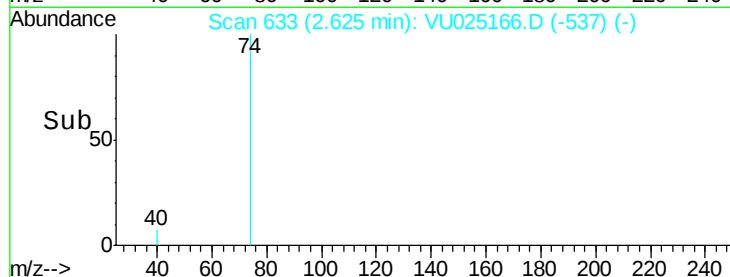
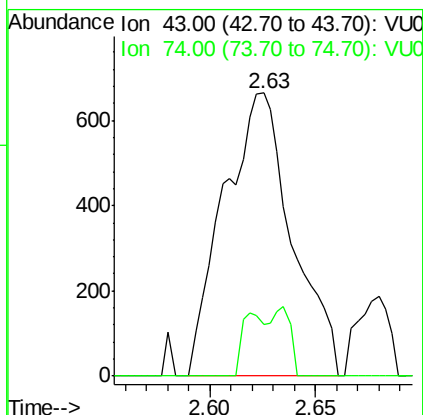
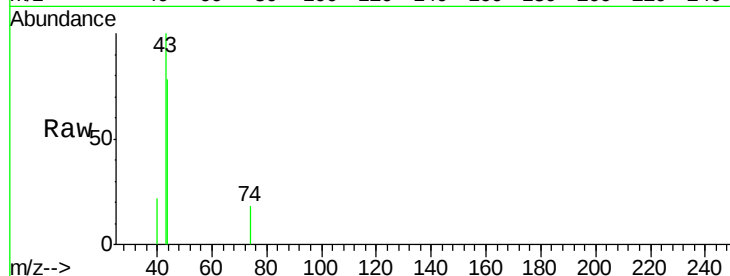




#18
Methvl Acetate
Concen: 0.393 ug/l
RT: 2.63 min Scan# 633
Delta R.T. 0.01 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

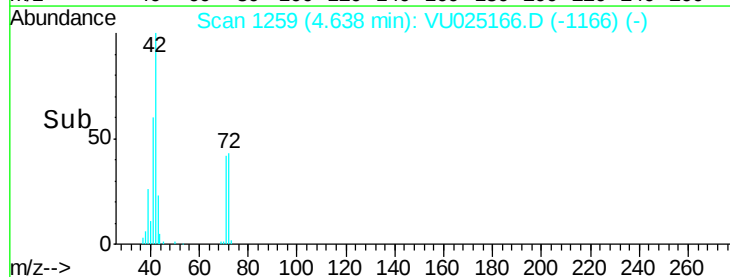
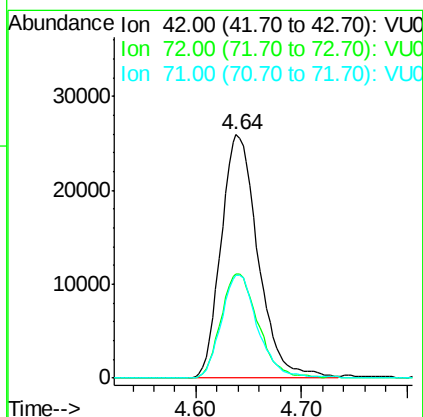
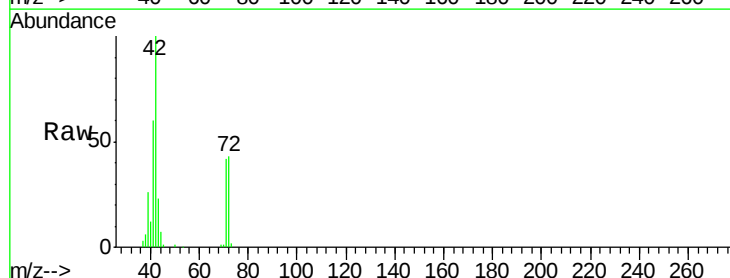
Instrument :
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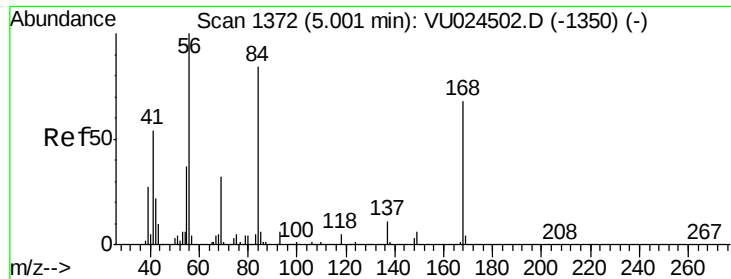
Tot Ion: 43 Resp: 1498
Ion Ratio Lower Upper
43 100
74 7.0 18.0 27.0#



#29
Tetrahydrofuran
Concen: 42.730 ug/l
RT: 4.64 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

Tgt Ion: 42 Resp: 63253
Ion Ratio Lower Upper
42 100
72 43.0 34.5 51.7
71 41.8 32.2 48.4

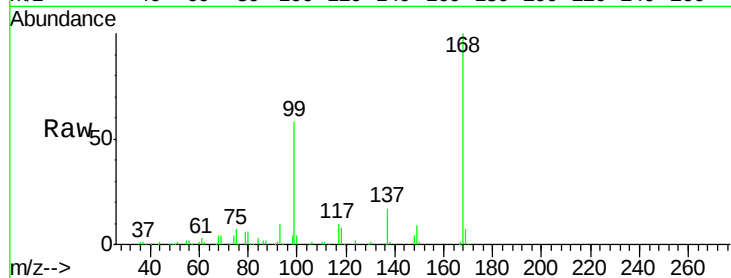




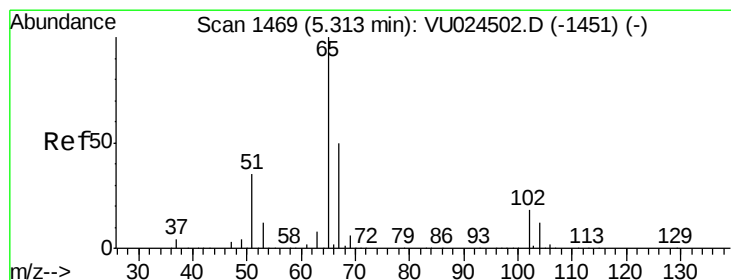
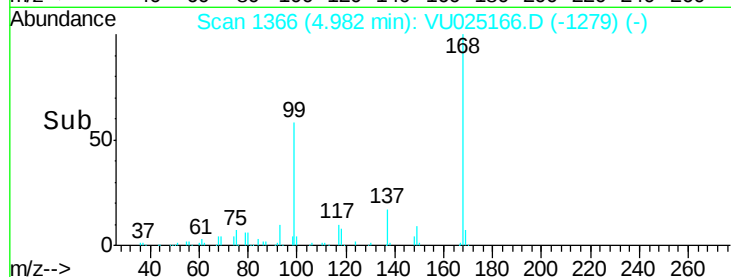
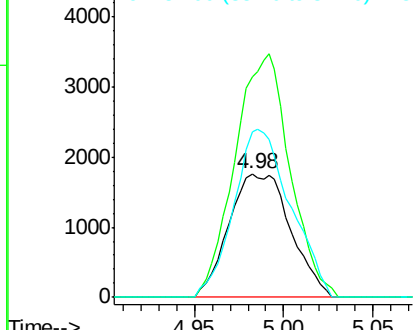
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

Instrument :
MSVOA_U
ClientSampleId :
CARBON-1-062818

Tot Ion: 56 Resp: 4253
Ion Ratio Lower Upper
56 100
69 178.5 24.8 37.2#
84 134.5 65.2 97.8#

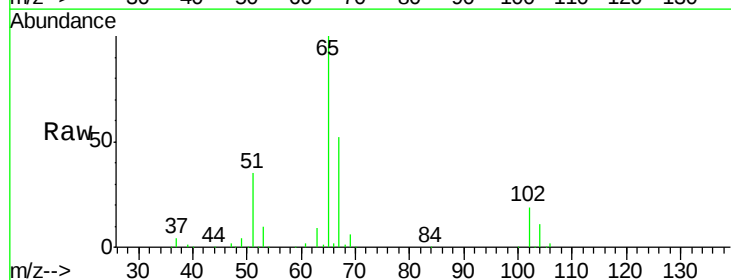


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

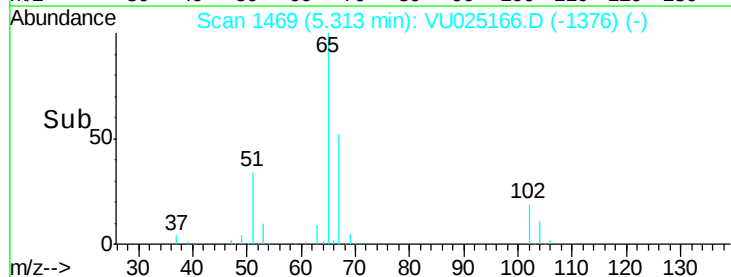
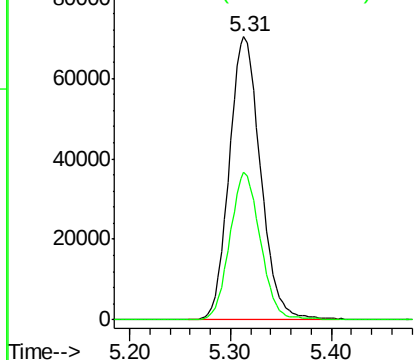


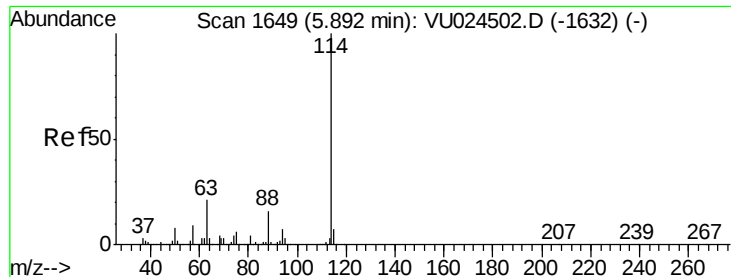
#33
1,2-Dichloroethane-d4
Concen: 45.971 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

Tgt Ion: 65 Resp: 152263
Ion Ratio Lower Upper
65 100
67 50.8 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

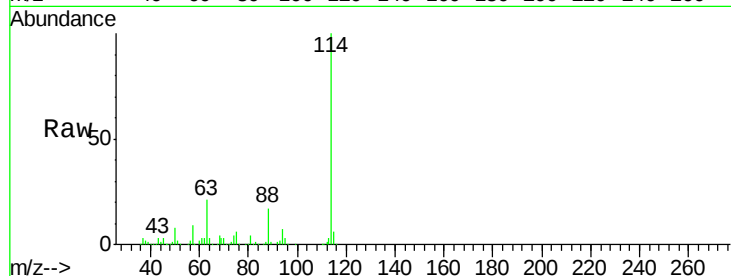




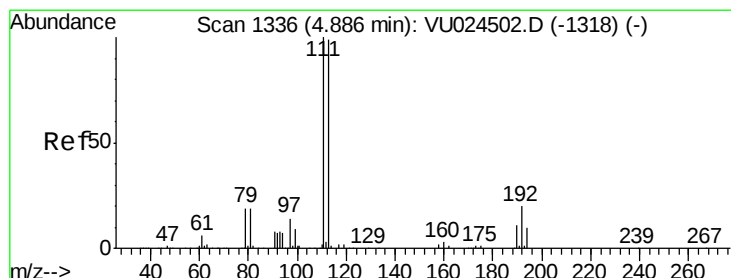
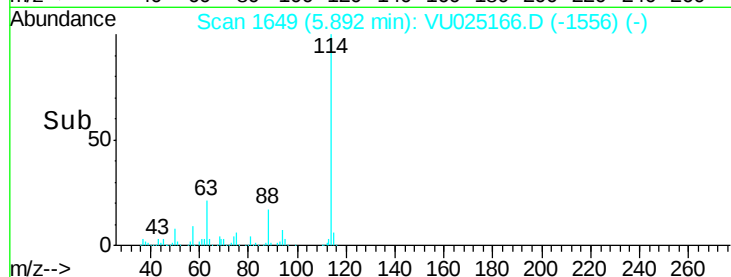
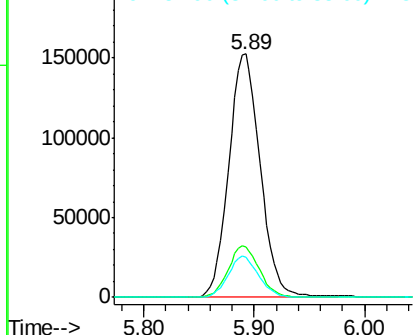
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025166.D
 Acq: 03 Jul 2018 01:47

Instrument :
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 CARBON-1-062818

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	45.4
88	16.5	0.0	31.0

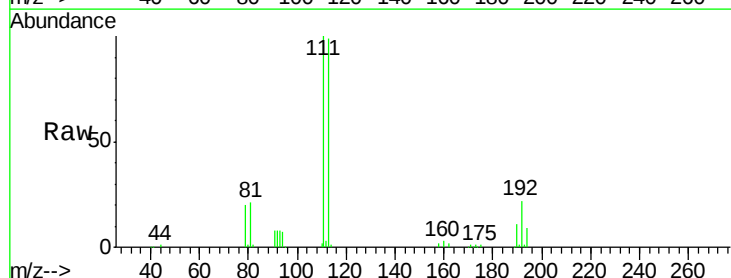


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

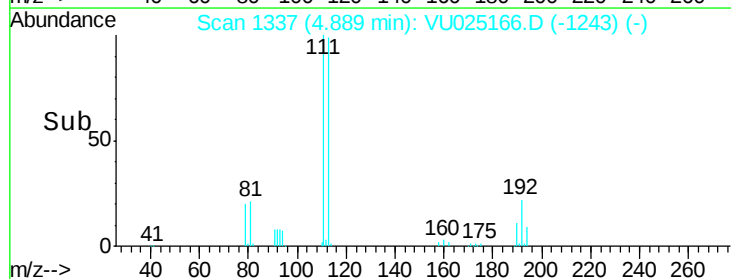
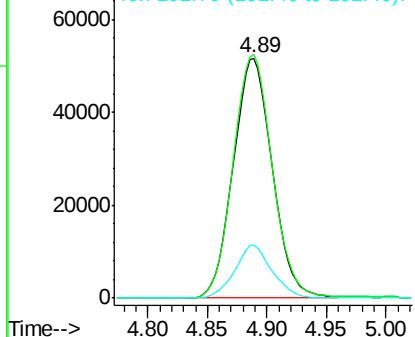


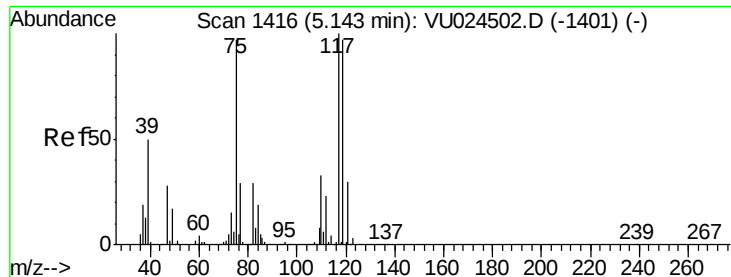
#35
 Dibromofluoromethane
 Concen: 46.937 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025166.D
 Acq: 03 Jul 2018 01:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	21.1	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: 4.130 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :
MSVOA_U
ClientSampleId :
CARBON-1-062818

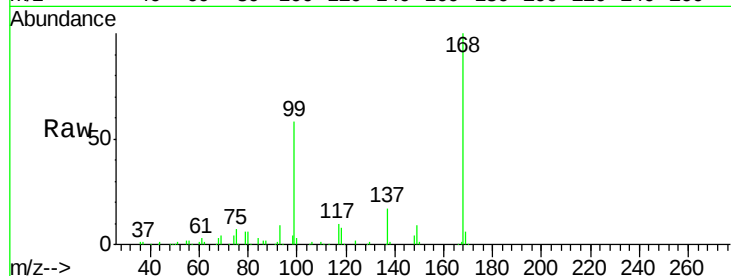
Tot Ion: 75 Resp: 14630

Ion Ratio Lower Upper

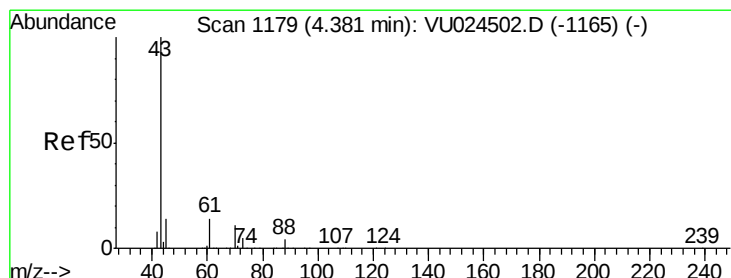
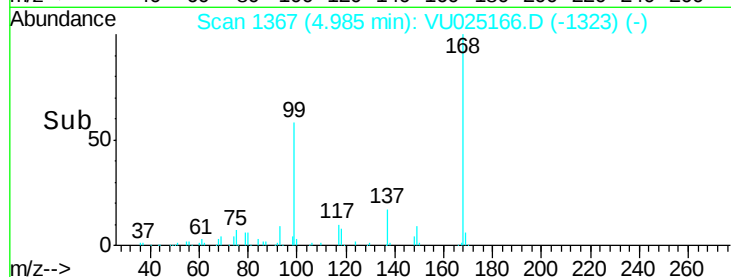
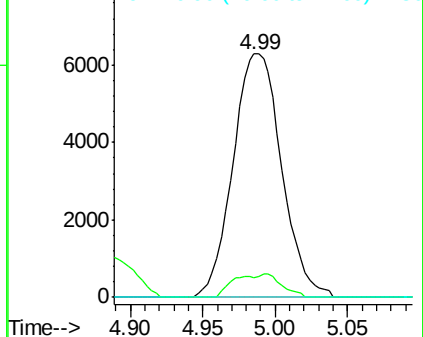
75 100

110 4.6 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): VU0
Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 3.519 ug/l

RT: 4.64 min Scan# 1259

Delta R.T. 0.26 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

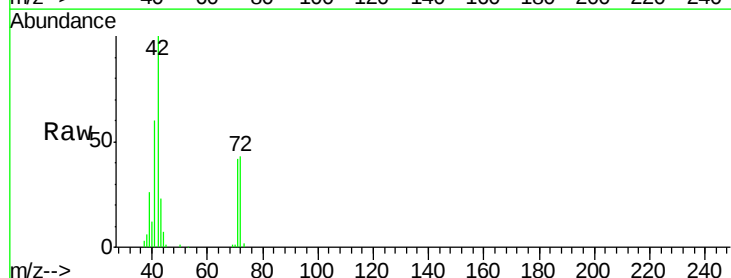
Tgt Ion: 43 Resp: 13584

Ion Ratio Lower Upper

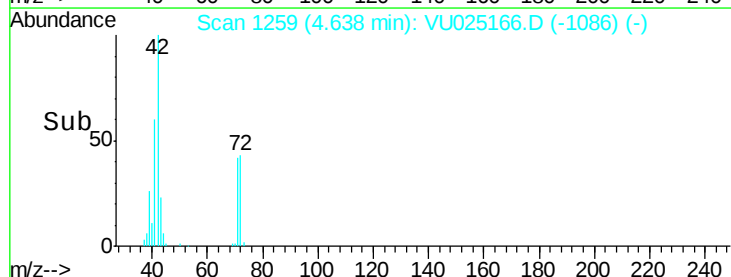
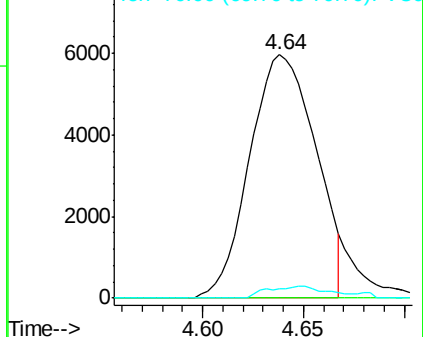
43 100

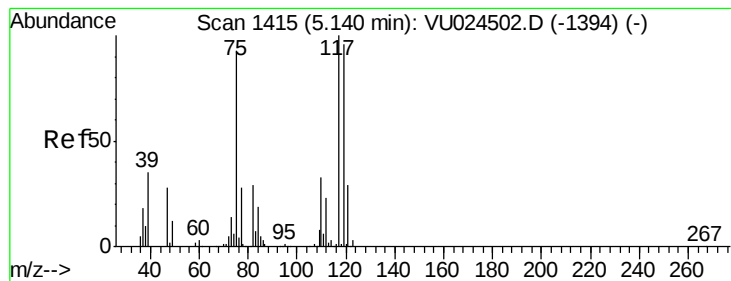
61 0.0 10.5 15.7#

70 4.2 7.4 11.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 4.910 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :
MSVOA_U
ClientSampleId :
CARBON-1-062818

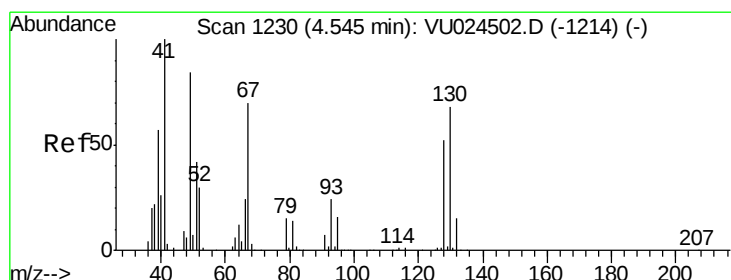
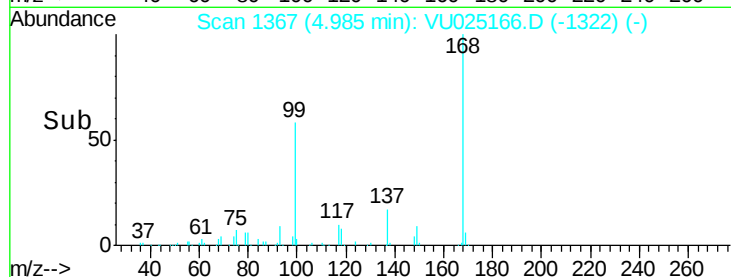
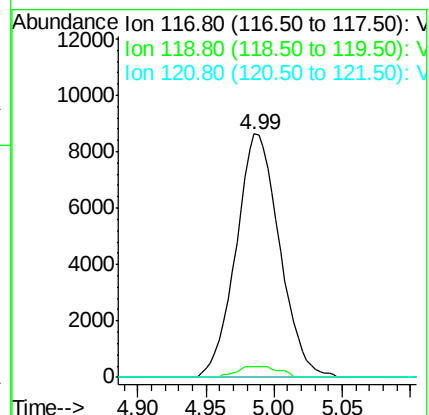
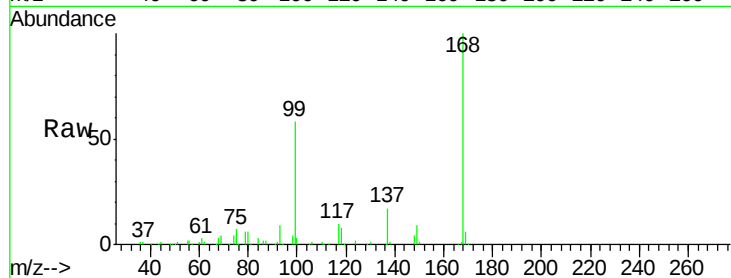
Tot Ion:117 Resp: 19124

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

121 0.0 23.7 35.5#



#41

Methacrylonitrile

Concen: 18.101 ug/l

RT: 4.64 min Scan# 1259

Delta R.T. 0.09 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Tgt Ion: 41 Resp: 37675

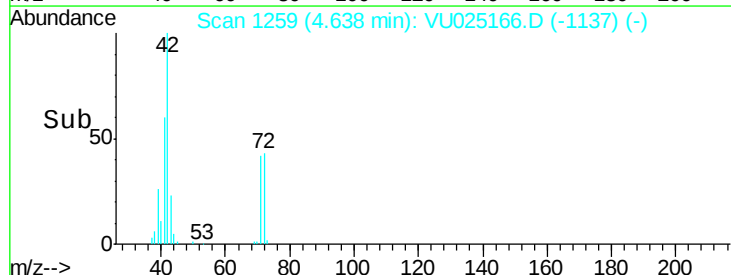
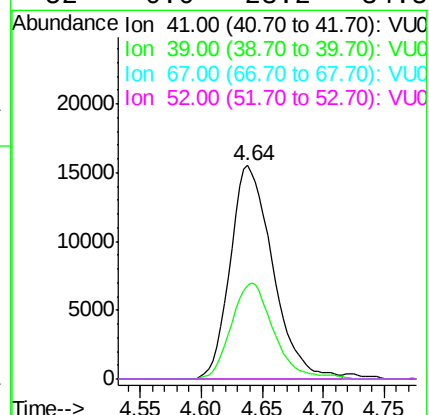
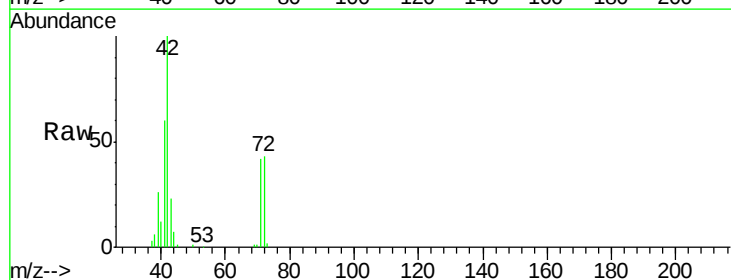
Ion Ratio Lower Upper

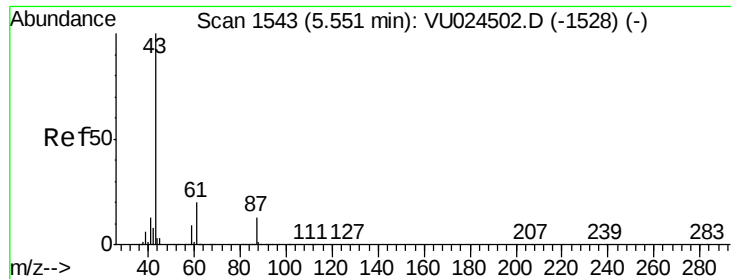
41 100

39 44.9 43.8 65.6

67 0.0 56.3 84.5#

52 0.0 23.2 34.8#





#43

Isopropyl Acetate

Concen: 1.446 ug/l

RT: 5.81 min Scan# 1625

Delta R.T. 0.26 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :

MSVOA_U

ClientSampleId :

CARBON-1-062818

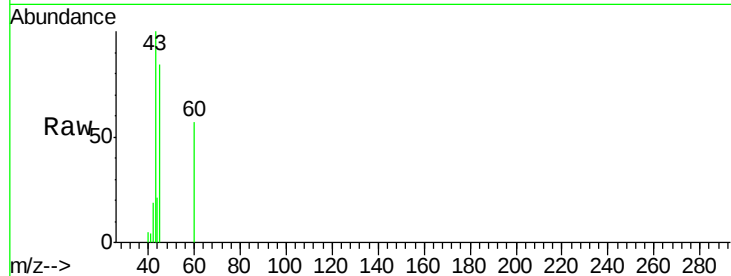
Tot Ion: 43 Resp: 9647

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

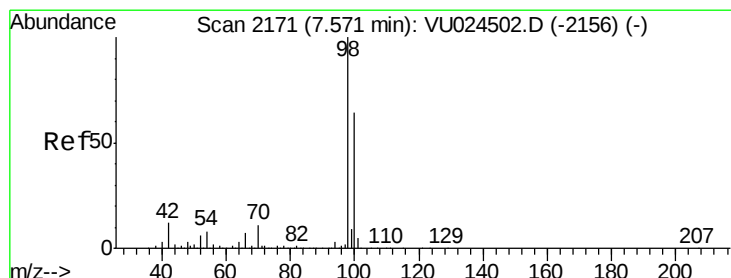
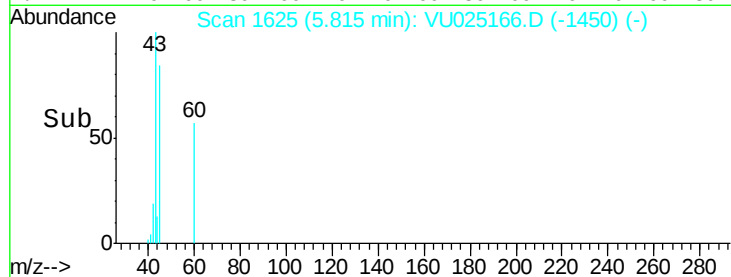
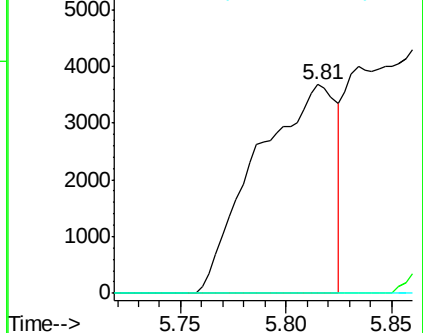
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VU025166.D (-1625) (-)

Ion 61.00 (60.70 to 61.70): VU025166.D (-1625) (-)

Ion 87.00 (86.70 to 87.70): VU025166.D (-1625) (-)



#50

Toluene-d8

Concen: 47.462 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025166.D

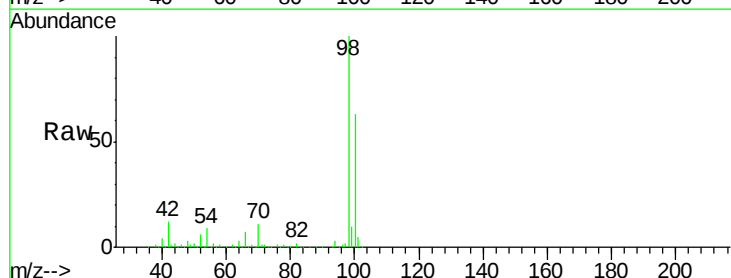
Acq: 03 Jul 2018 01:47

Tgt Ion: 98 Resp: 433083

Ion Ratio Lower Upper

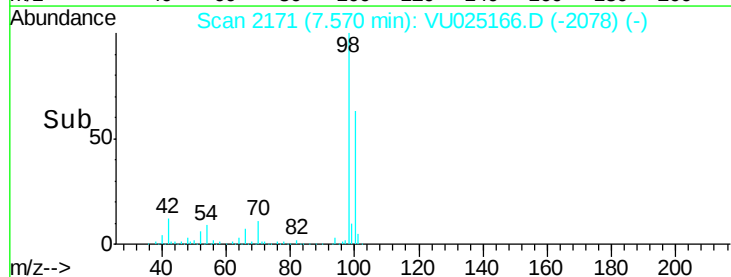
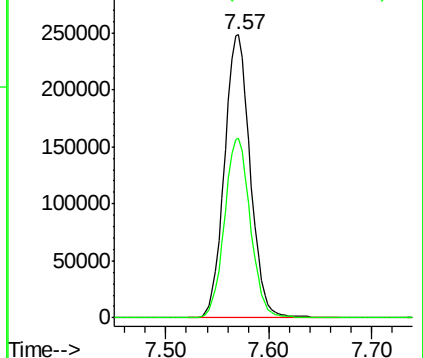
98 100

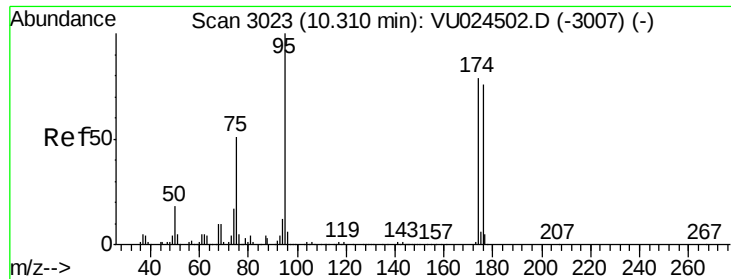
100 63.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025166.D (-2171) (-)

Ion 100.00 (99.70 to 100.70): VU025166.D (-2171) (-)

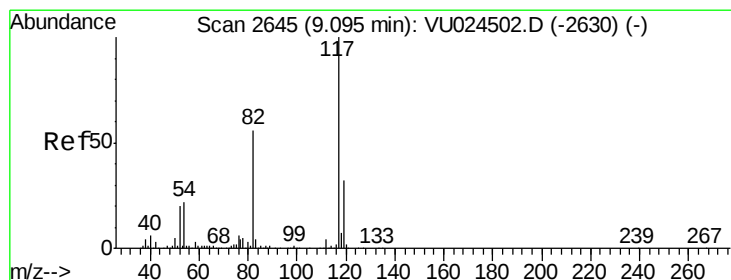
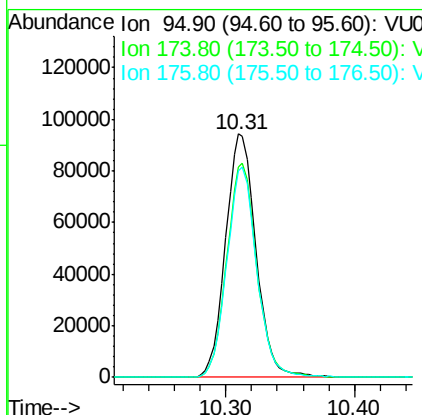
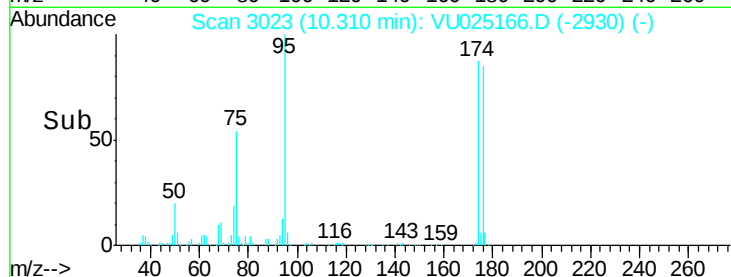
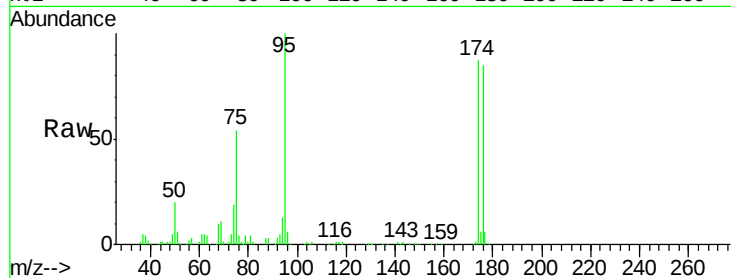




#62
4-Bromofluorobenzene
Concen: 42.601 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

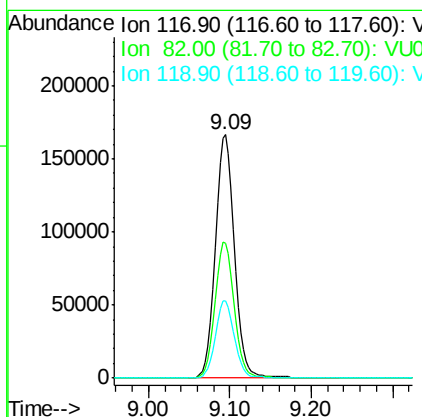
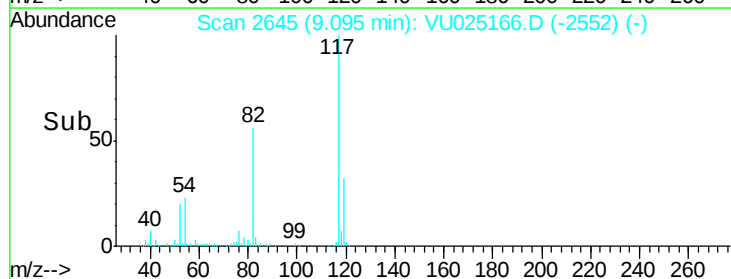
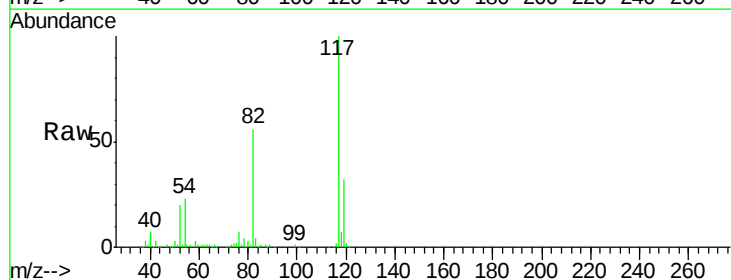
Instrument :
MSVOA_U
ClientSampleId :
CARBON-1-062818

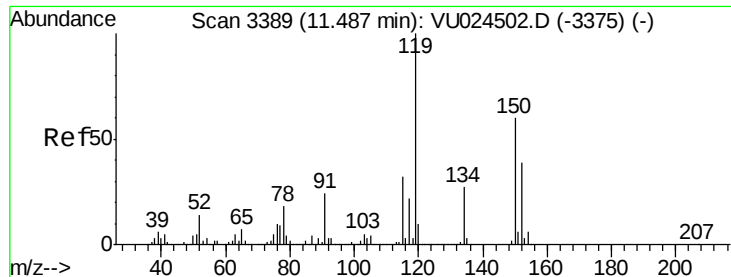
Tot Ion: 95 Resp: 154338
Ion Ratio Lower Upper
95 100
174 87.1 0.0 165.8
176 84.8 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025166.D
Acq: 03 Jul 2018 01:47

Tgt Ion: 117 Resp: 277350
Ion Ratio Lower Upper
117 100
82 55.6 44.3 66.5
119 31.8 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :

MSVOA_U

ClientSampleId :

CARBON-1-062818

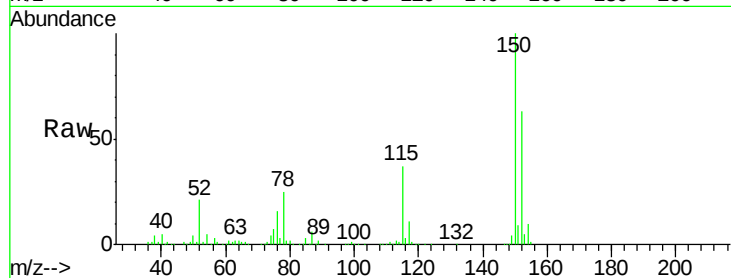
Tot Ion:152 Resp: 140603

Ion Ratio Lower Upper

152 100

115 57.5 43.0 129.0

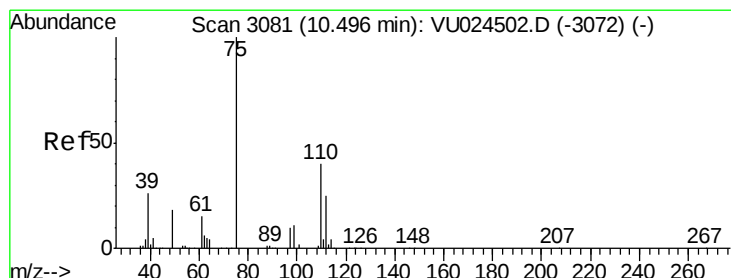
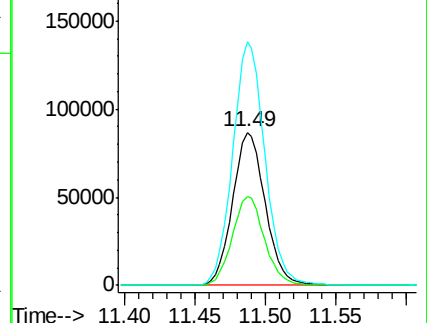
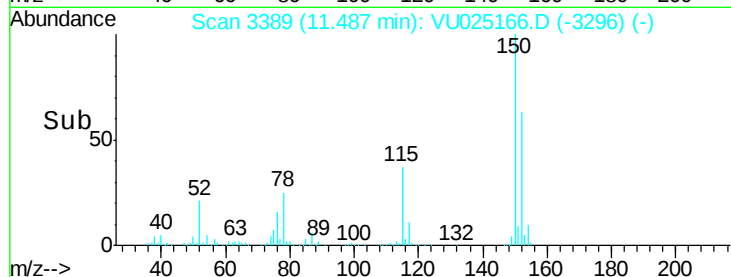
150 157.1 0.0 354.0



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: 26.938 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025166.D

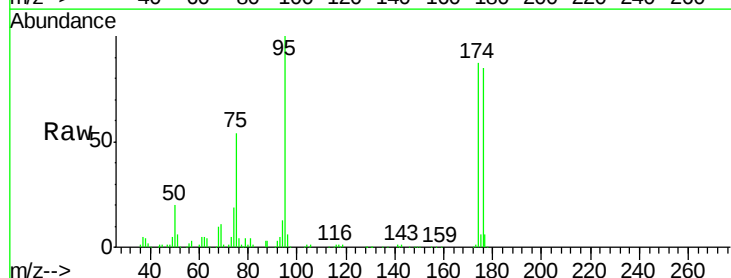
Acq: 03 Jul 2018 01:47

Tgt Ion: 75 Resp: 83387

Ion Ratio Lower Upper

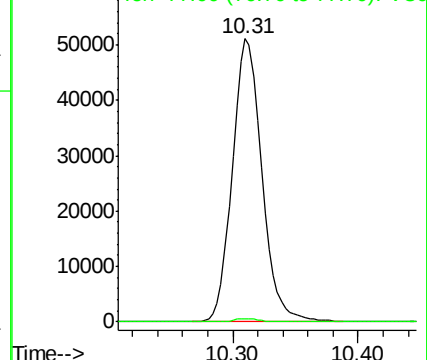
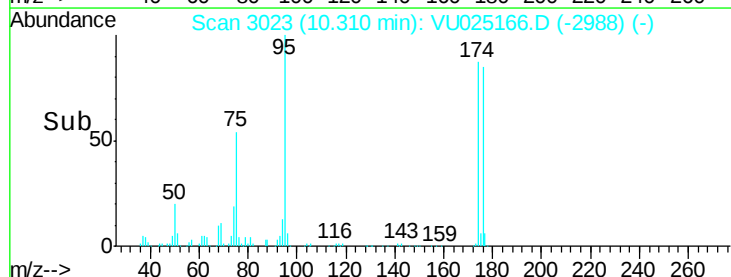
75 100

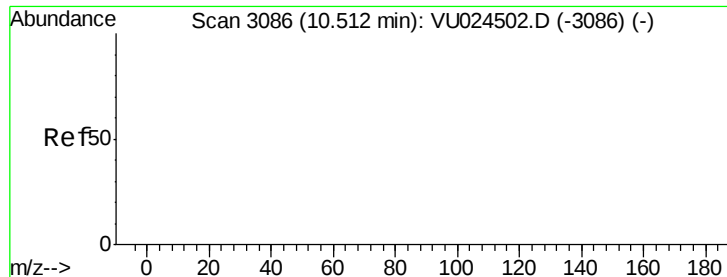
77 0.9 20.9 62.7#



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: 62.345 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

Instrument :

MSVOA_U

ClientSampleId :

CARBON-1-062818

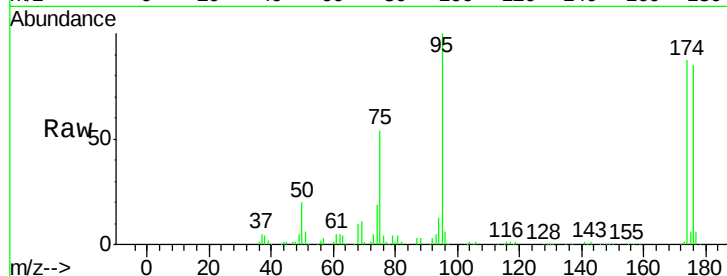
Tot Ion: 75 Resp: 83387

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

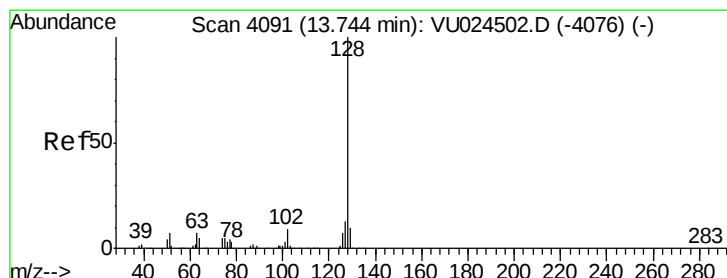
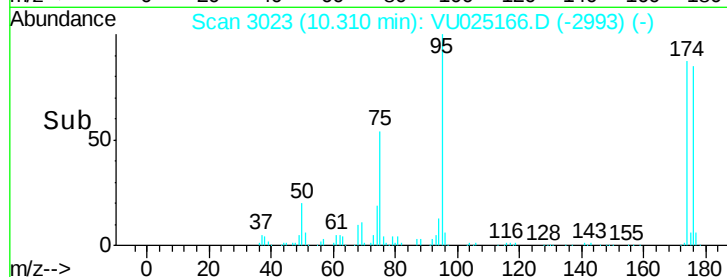
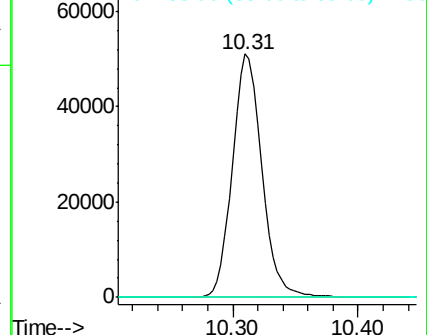
89 0.0 0.0 0.0



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: 0.749 ug/l

RT: 13.78 min Scan# 4102

Delta R.T. 0.04 min

Lab File: VU025166.D

Acq: 03 Jul 2018 01:47

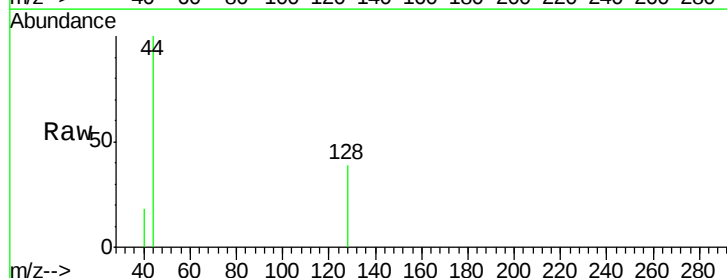
Tgt Ion: 128 Resp: 733

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) (-)

