

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062118\
 Data File : VU024813.D
 Acq On : 21 Jun 2018 16:05
 Operator : MD/SY
 Sample : J3539-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0185

Quant Time: Jun 22 03:51:48 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	190644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	291163	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	271496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146062	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	134362	43.17	ug/l	0.00
Spiked Amount			Recovery	=	86.34%	
35) Dibromofluoromethane	4.89	113	112407	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
50) Toluene-d8	7.57	98	421085	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
62) 4-Bromofluorobenzene	10.31	95	155160	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

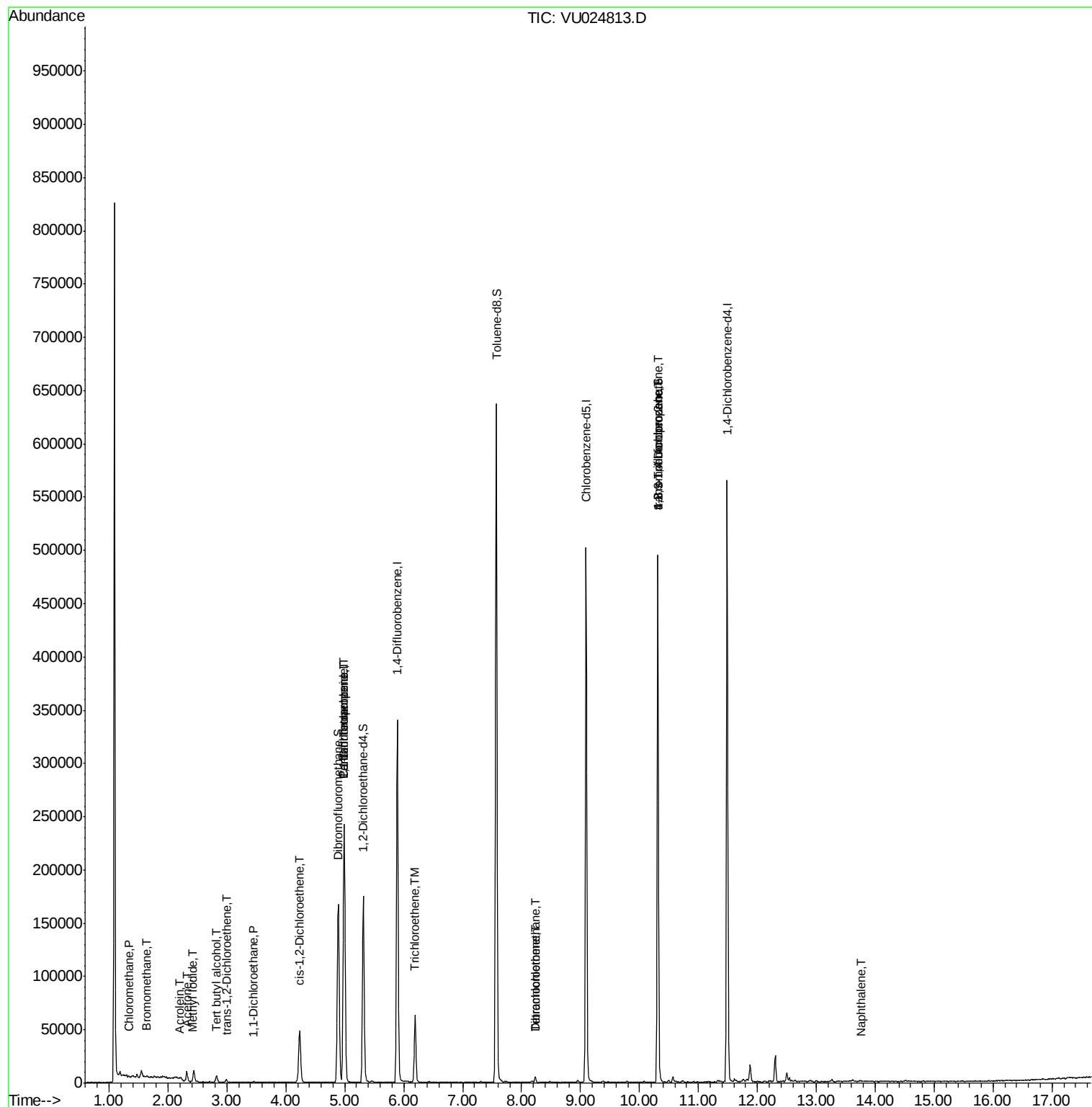
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	953	0.391	ug/l	88
5) Bromomethane	1.64	94	333	0.274	ug/l #	58
6) Chloroethane	1.70	64	93	Below Cal	#	43
8) Diethyl Ether	2.00	74	40	Below Cal	#	29
10) Methyl Iodide	2.41	142	117	5.340	ug/l #	40
11) Tert butyl alcohol	2.82	59	6278	8.294	ug/l #	93
13) Acrolein	2.19	56	242	0.609	ug/l #	24
16) Acetone	2.32	43	10094	6.036	ug/l	97
21) trans-1,2-Dichloroethene	2.99	96	1100	0.460	ug/l #	71
24) 1,1-Dichloroethane	3.45	63	1215	0.264	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	28652	10.424	ug/l	84
31) Cyclohexane	4.99	56	4629	Below Cal	#	16
36) 1,1-Dichloropropene	4.99	75	12986	3.796	ug/l #	51
38) Carbon Tetrachloride	4.99	117	17918	4.762	ug/l #	16
44) Trichloroethene	6.19	130	22439	8.087	ug/l	99
60) Dibromochloromethane	8.23	129	1197	0.376	ug/l #	11
64) Tetrachloroethene	8.23	164	1210	0.469	ug/l #	91
76) 1,2,3-Trichloropropane	10.31	75	79787	24.811	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	79787	57.424	ug/l #	100
95) Naphthalene	13.75	128	479	0.723	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: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

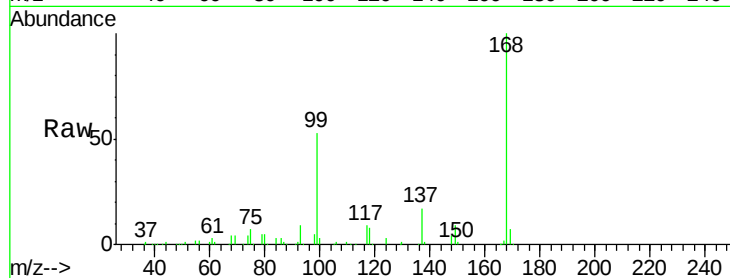
S39-0185

Tot Ion:168 Resp: 190644

Ion Ratio Lower Upper

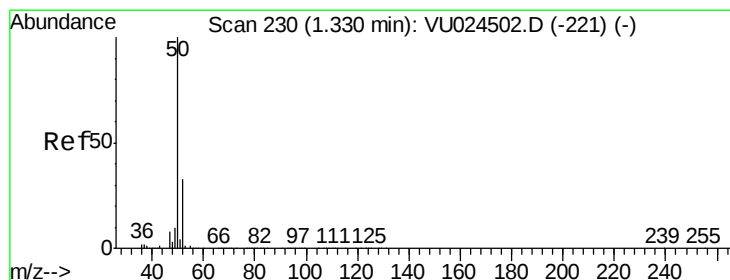
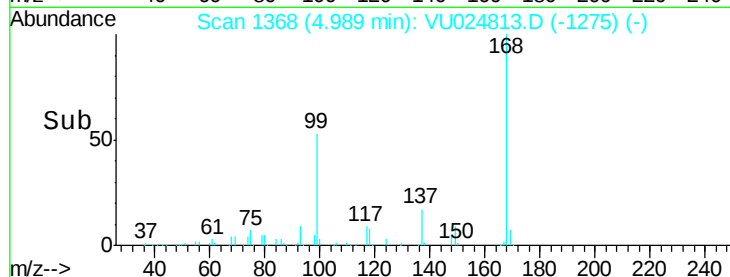
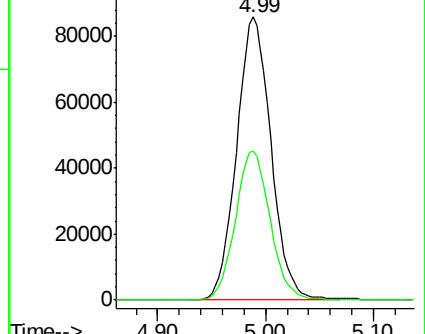
168 100

99 52.6 43.2 64.8



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

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



#3

Chloromethane

Concen: 0.391 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024813.D

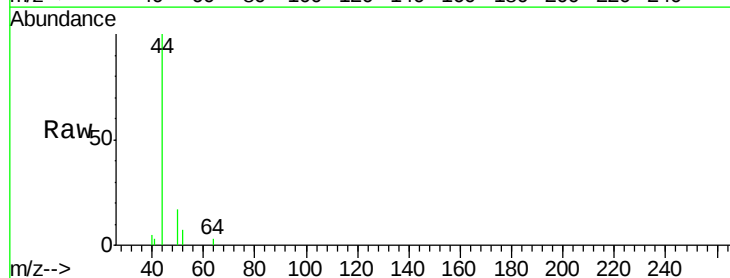
Acq: 21 Jun 2018 16:05

Tgt Ion: 50 Resp: 953

Ion Ratio Lower Upper

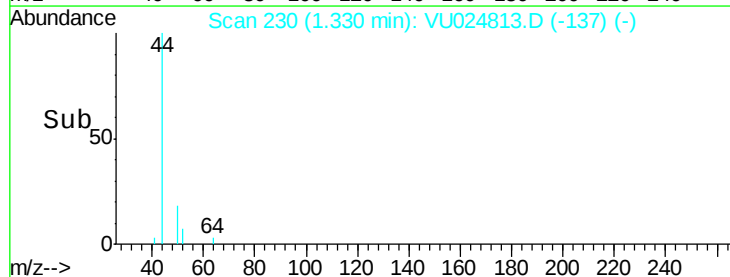
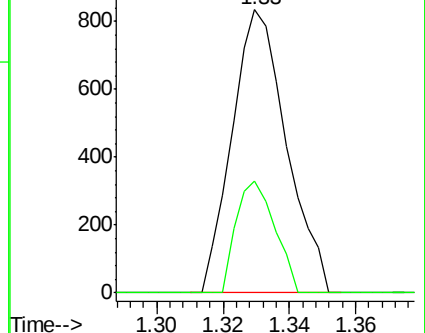
50 100

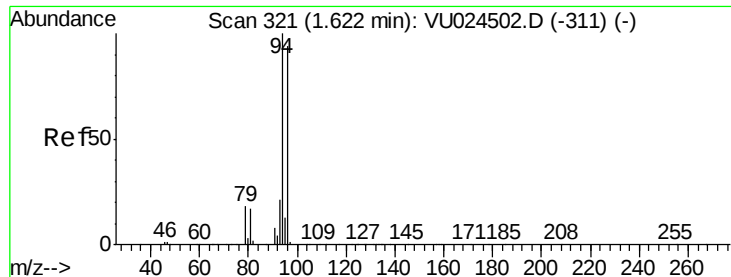
52 39.6 26.4 39.6



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

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





#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

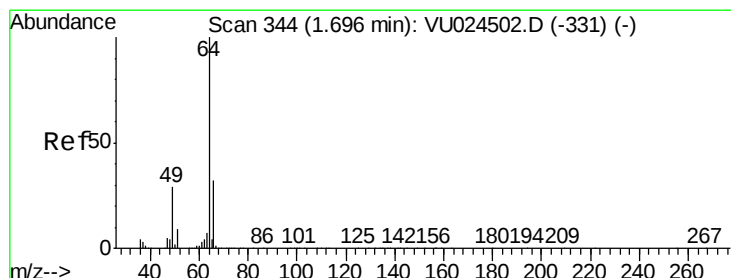
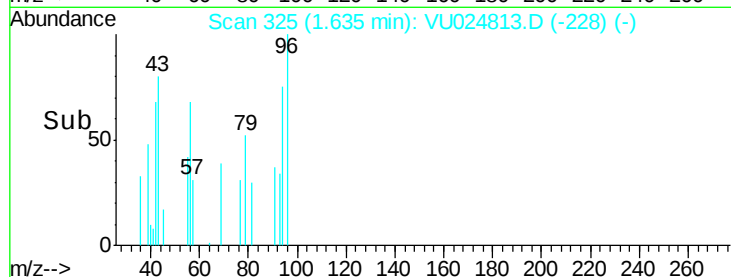
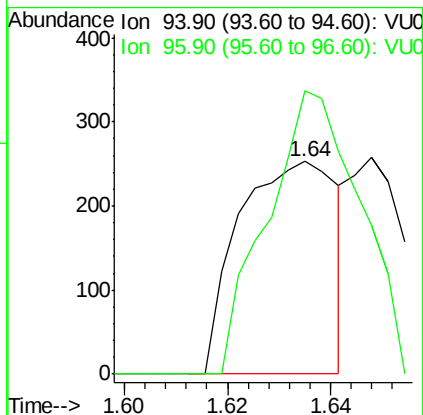
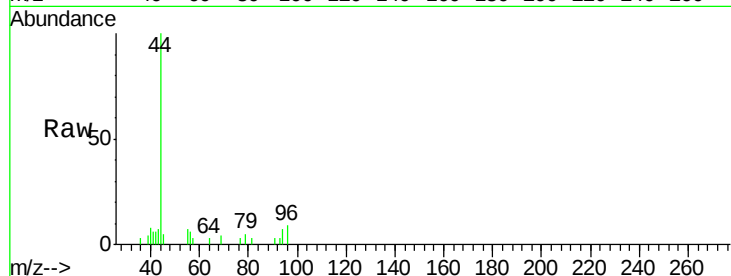
S39-0185

Tot Ion: 94 Resp: 333

Ion Ratio Lower Upper

94 100

96 133.2 74.5 111.7#



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU024813.D

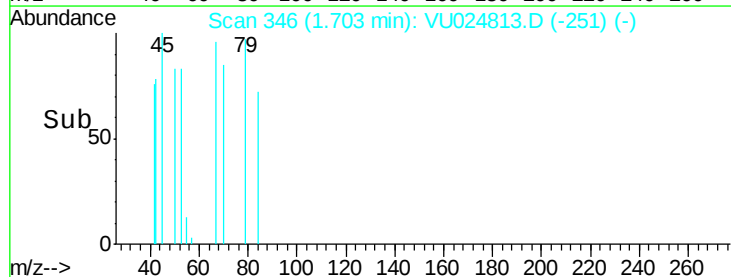
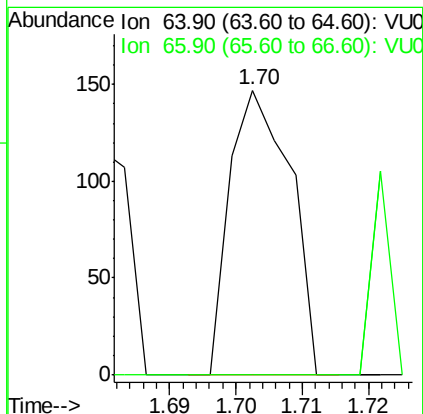
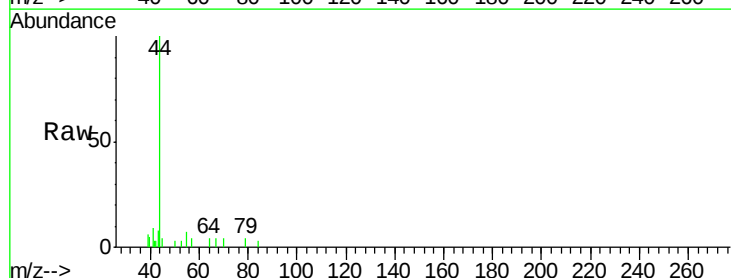
Acq: 21 Jun 2018 16:05

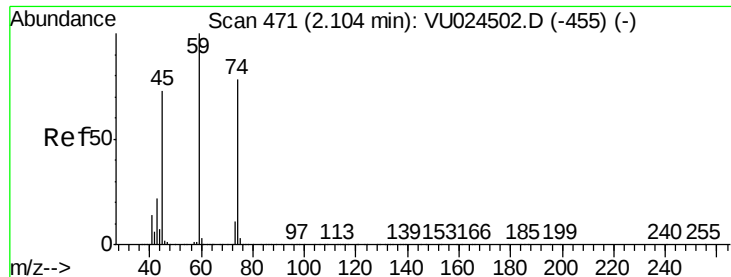
Tgt Ion: 64 Resp: 93

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.00 min Scan# 438

Delta R.T. -0.11 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

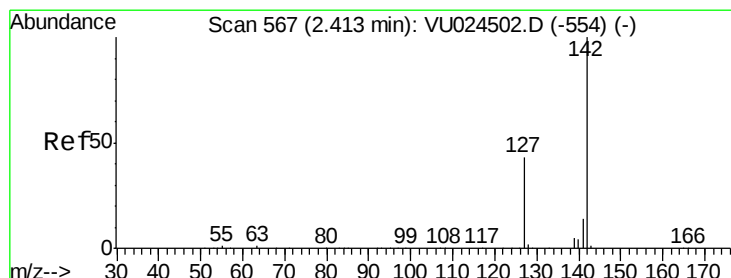
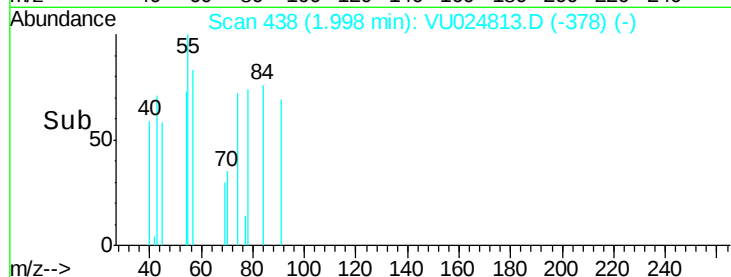
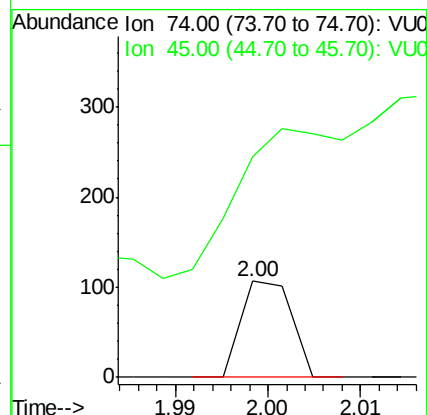
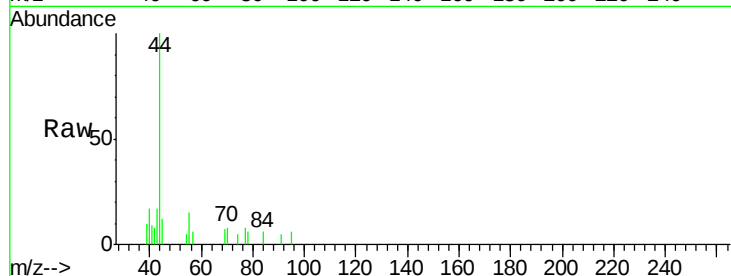
S39-0185

Tot Ion: 74 Resp: 40

Ion Ratio Lower Upper

74 100

45 35.0 55.0 165.0#



#10

Methyl Iodide

Concen: 5.340 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

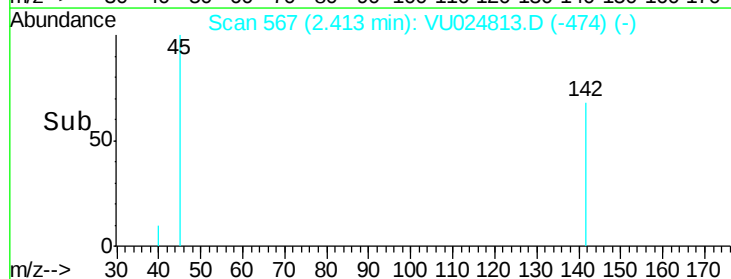
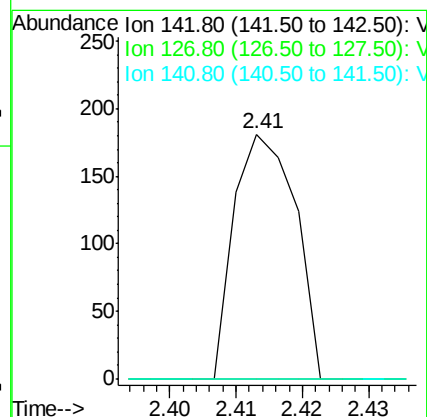
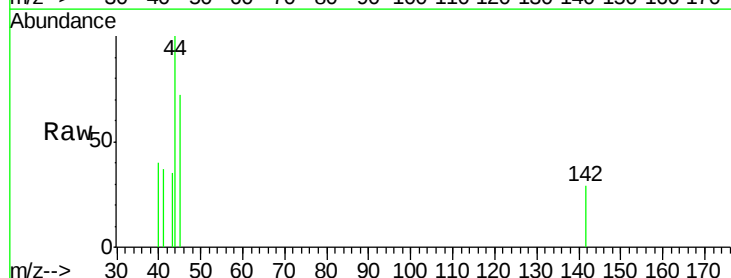
Tgt Ion: 142 Resp: 117

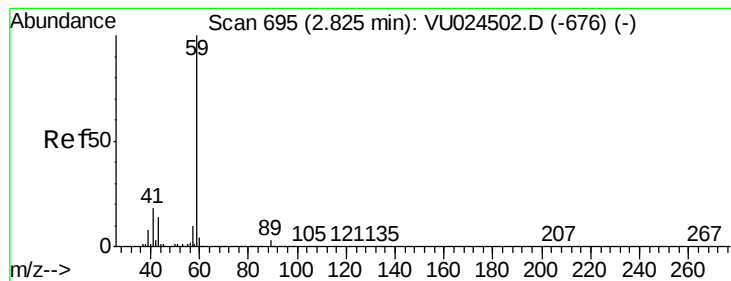
Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



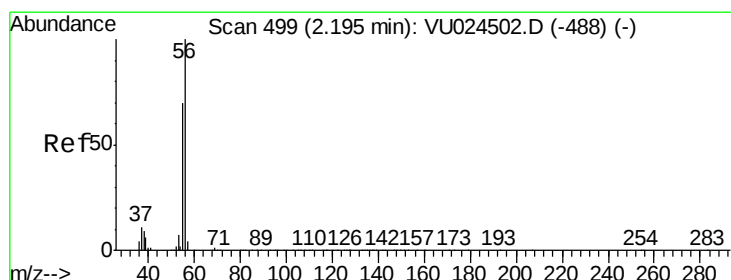
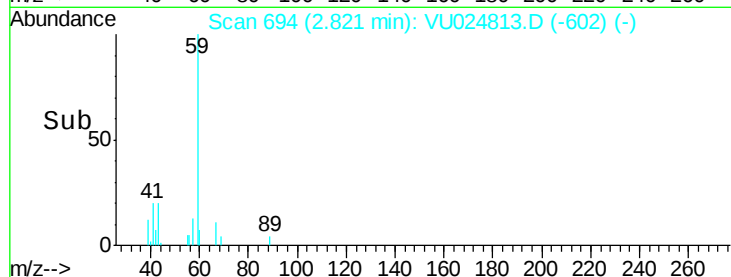
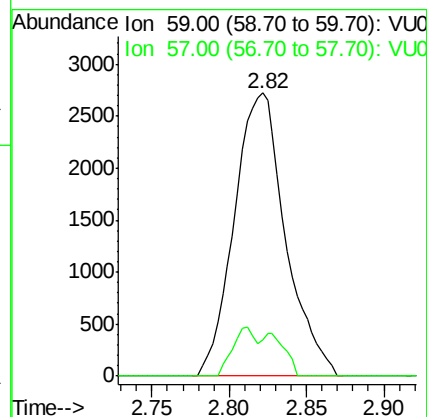
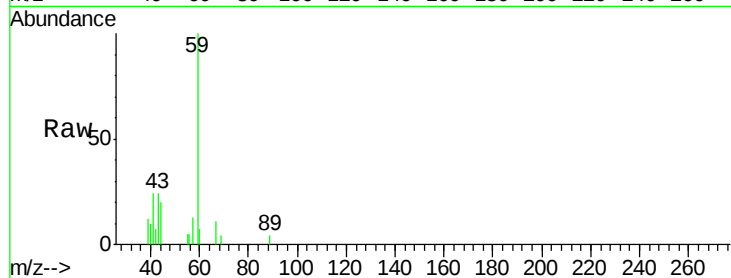


#11

Tert butyl alcohol
 Concen: 8.294 ug/l
 RT: 2.82 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VU024813.D
 Acq: 21 Jun 2018 16:05

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0185

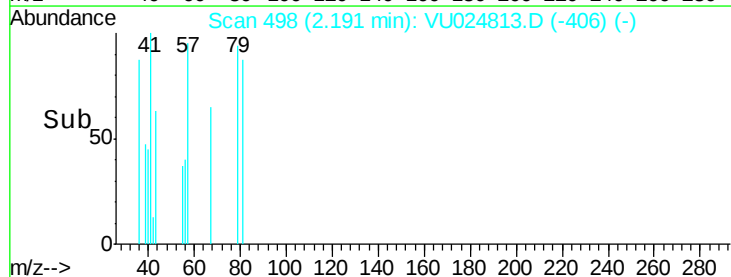
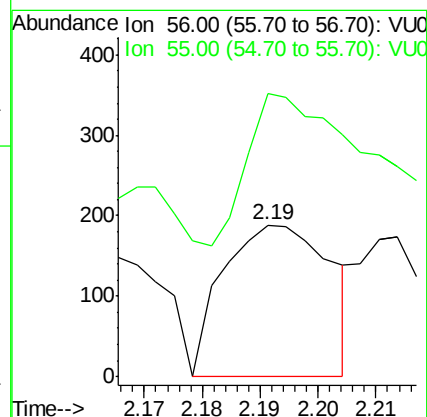
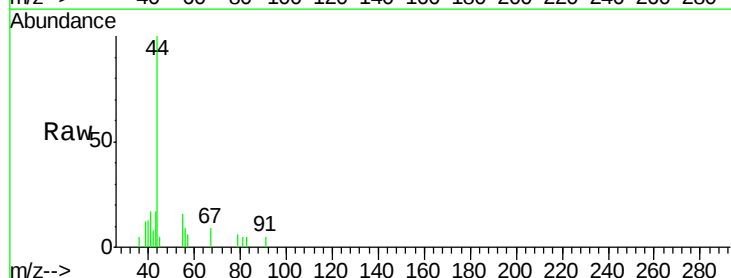
Tot Ion: 59 Resp: 6278
 Ion Ratio Lower Upper
 59 100
 57 7.8 8.5 12.7#

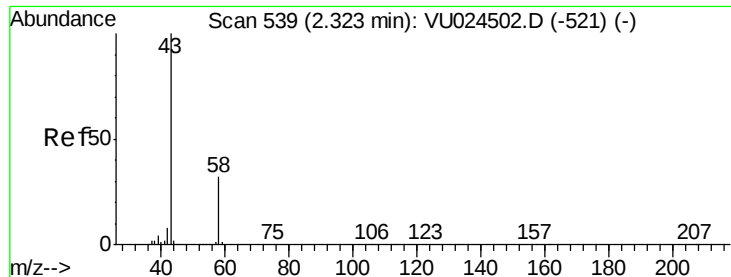


#13

Acrolein
 Concen: 0.609 ug/l
 RT: 2.19 min Scan# 498
 Delta R.T. -0.00 min
 Lab File: VU024813.D
 Acq: 21 Jun 2018 16:05

Tgt Ion: 56 Resp: 242
 Ion Ratio Lower Upper
 56 100
 55 136.8 58.4 87.6#





#16

Acetone

Concen: 6.036 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

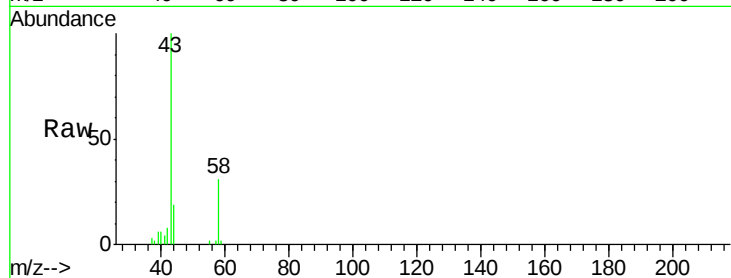
S39-0185

Tot Ion: 43 Resp: 10094

Ion Ratio Lower Upper

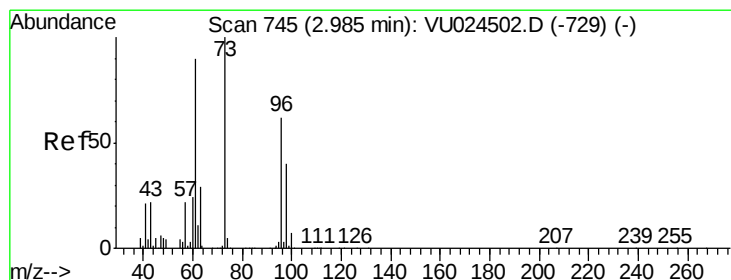
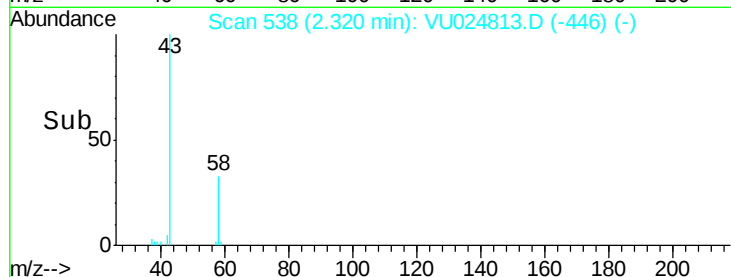
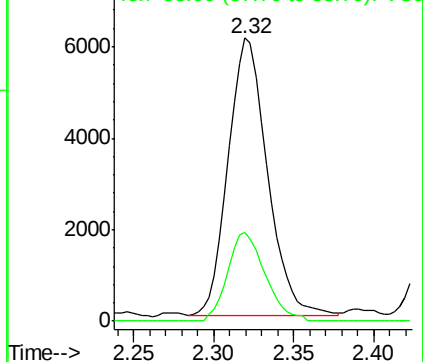
43 100

58 32.0 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.460 ug/l

RT: 2.99 min Scan# 747

Delta R.T. 0.01 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

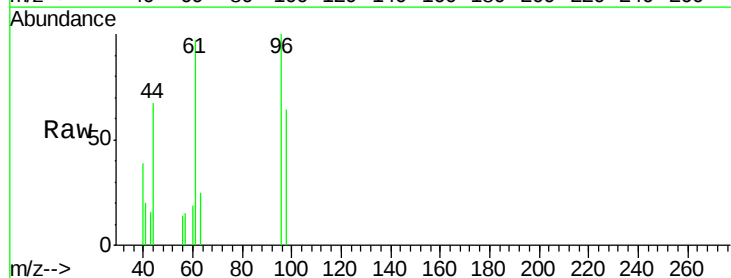
Tgt Ion: 96 Resp: 1100

Ion Ratio Lower Upper

96 100

61 96.9 119.4 179.0#

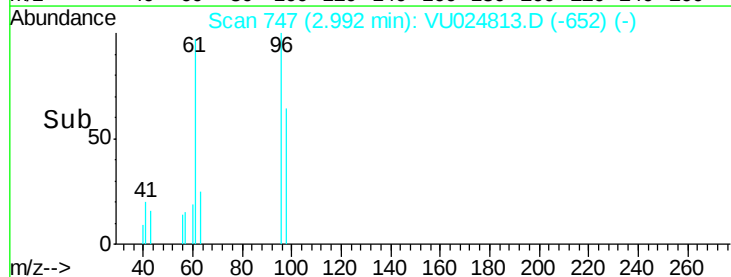
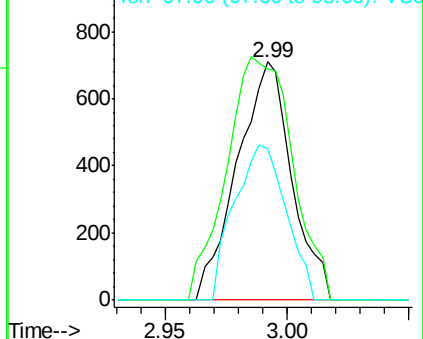
98 63.7 51.1 76.7

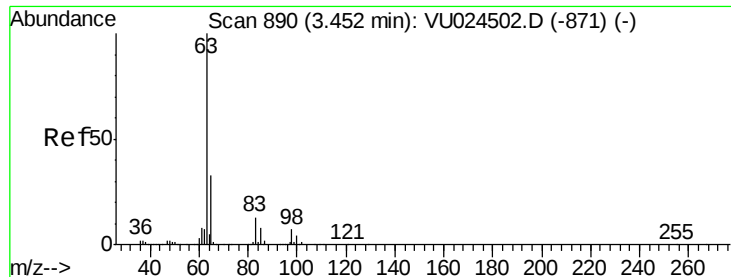


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#24

1,1-Dichloroethane

Concen: 0.264 ug/l

RT: 3.45 min Scan# 891

Delta R.T. 0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

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ClientSampleId :

S39-0185

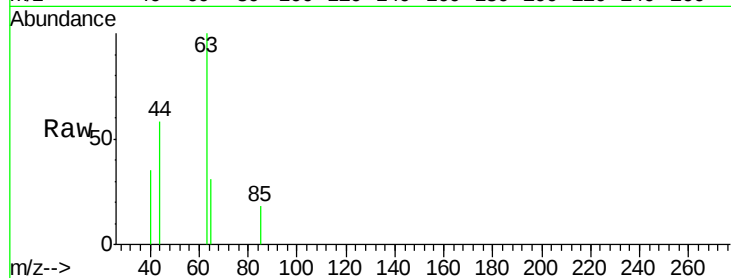
Tot Ion: 63 Resp: 1215

Ion Ratio Lower Upper

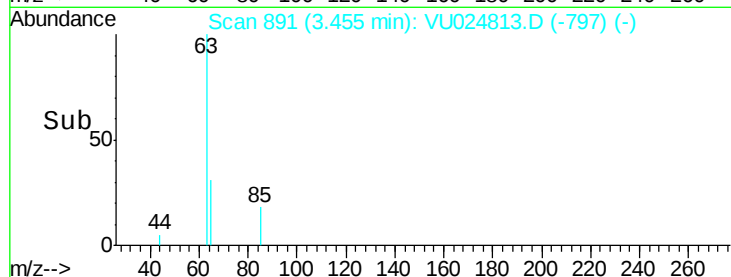
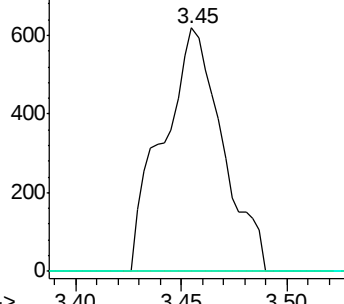
63 100

98 0.0 3.5 10.4#

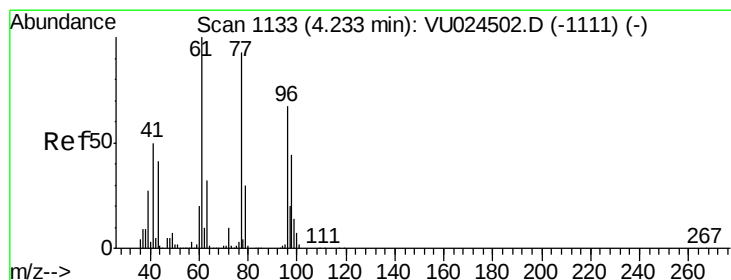
100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VU0
Ion 97.90 (97.60 to 98.60): VU0
Ion 99.90 (99.60 to 100.60): VU0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 10.424 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

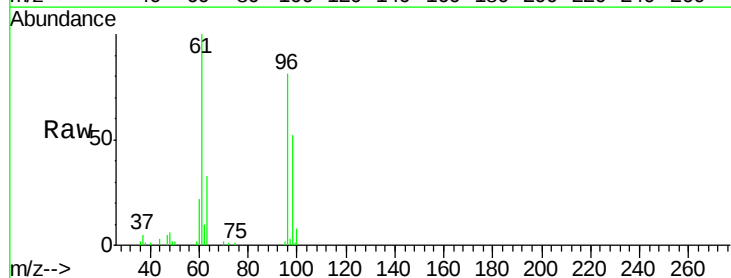
Tgt Ion: 96 Resp: 28652

Ion Ratio Lower Upper

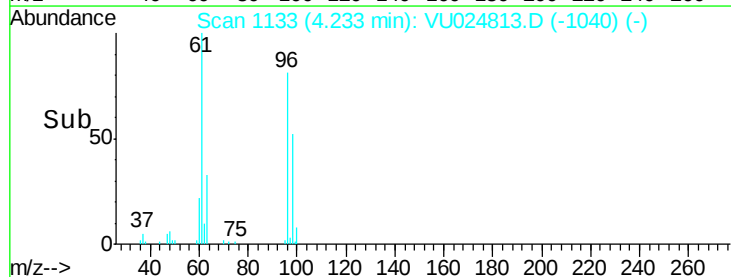
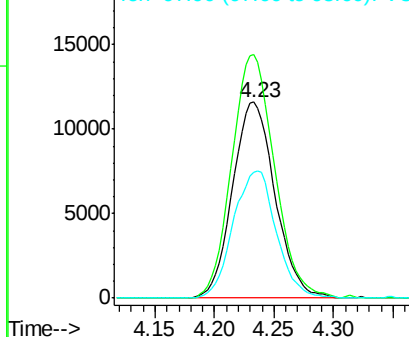
96 100

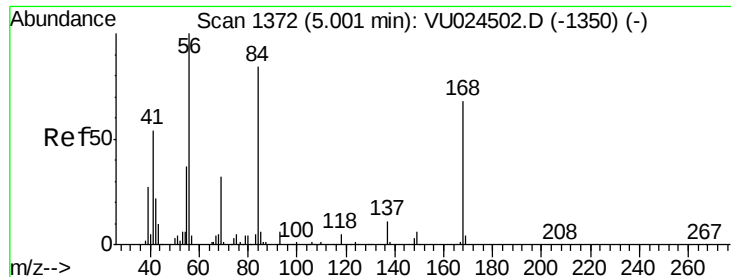
61 125.3 0.0 306.6

98 65.9 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

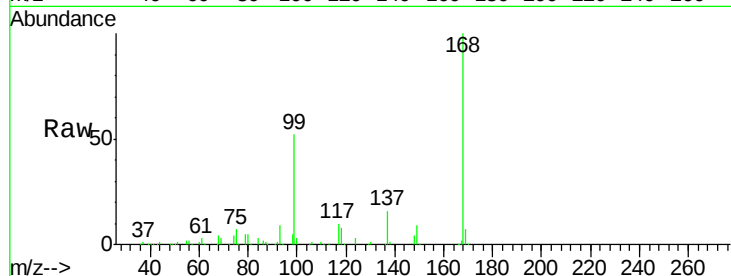




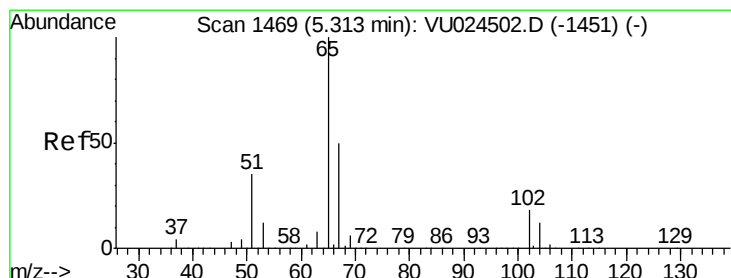
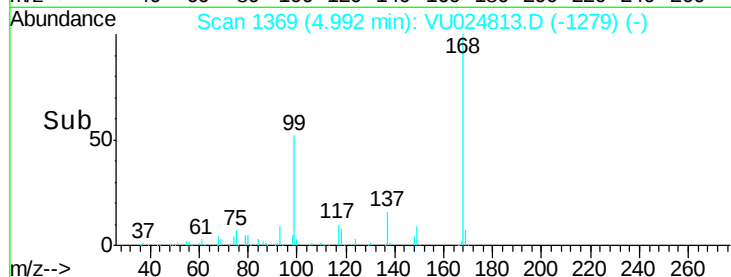
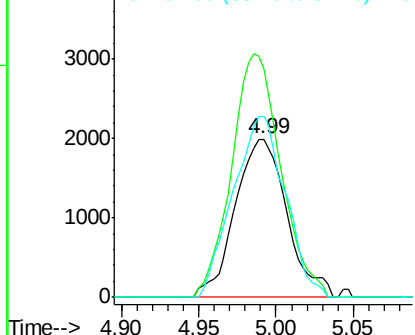
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VU024813.D
Acq: 21 Jun 2018 16:05

Instrument :
MSVOA_U
ClientSampleId :
S39-0185

Tot Ion: 56 Resp: 4629
Ion Ratio Lower Upper
56 100
69 144.4 24.8 37.2#
84 114.4 65.2 97.8#

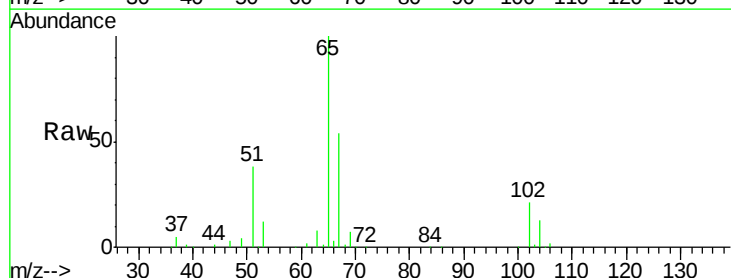


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

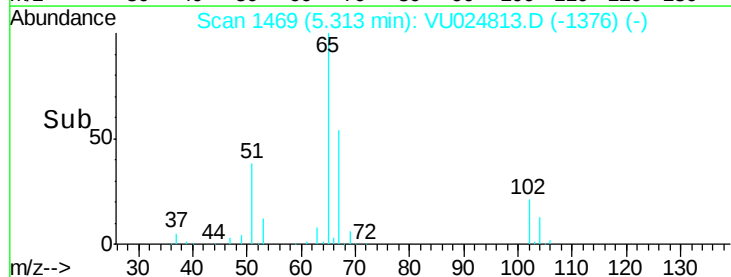
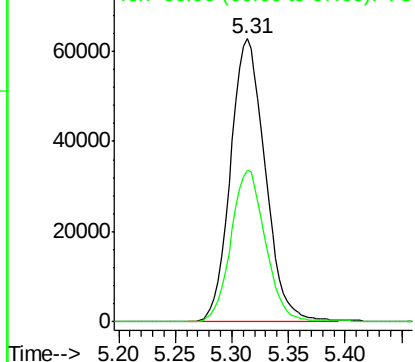


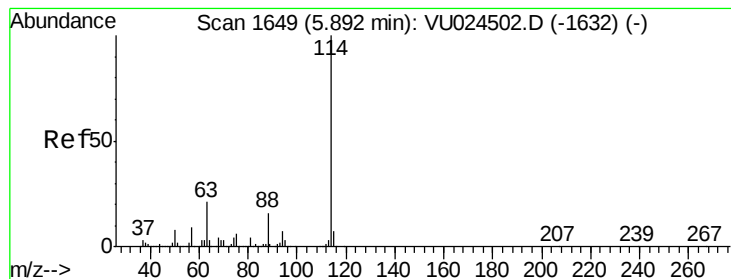
#33
1,2-Dichloroethane-d4
Concen: 43.171 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU024813.D
Acq: 21 Jun 2018 16:05

Tgt Ion: 65 Resp: 134362
Ion Ratio Lower Upper
65 100
67 53.0 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: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

S39-0185

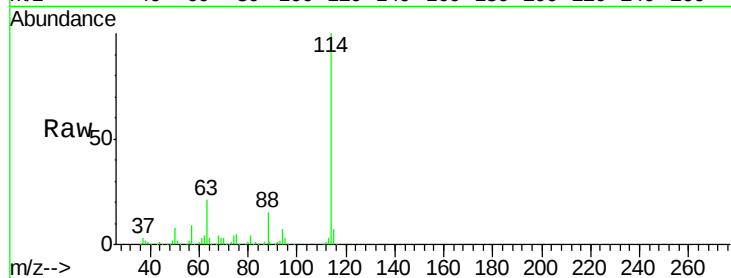
Tot Ion:114 Resp: 291163

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.4

88 15.3 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0

200000

150000

100000

50000

0

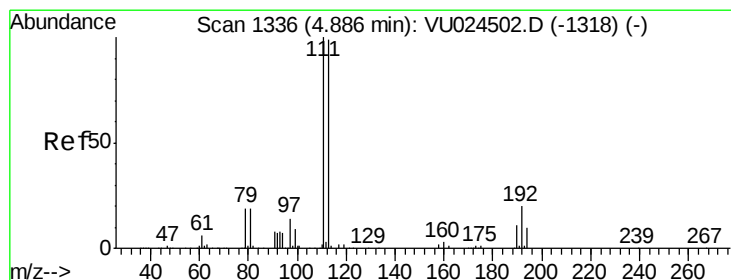
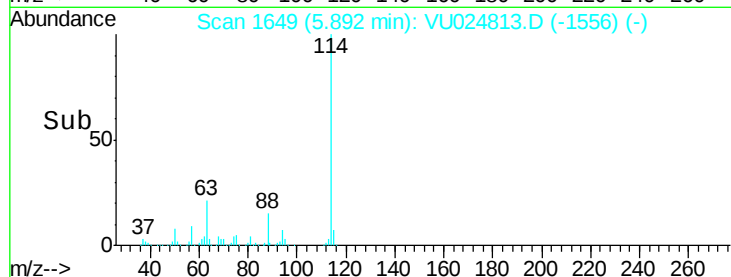
5.89

5.80

5.90

6.00

Time-->



#35

Dibromofluoromethane

Concen: 46.518 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

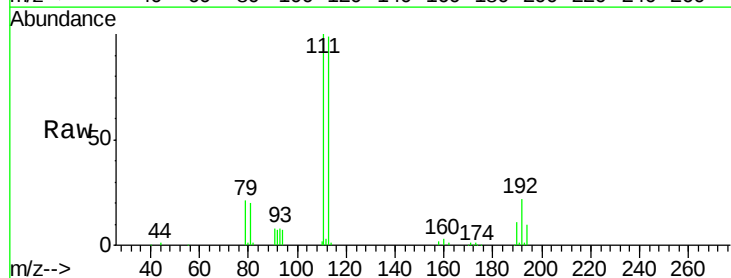
Tgt Ion:113 Resp: 112407

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 22.0 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

60000

40000

20000

0

4.89

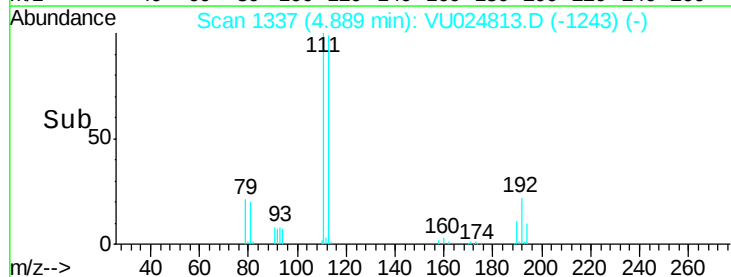
4.80

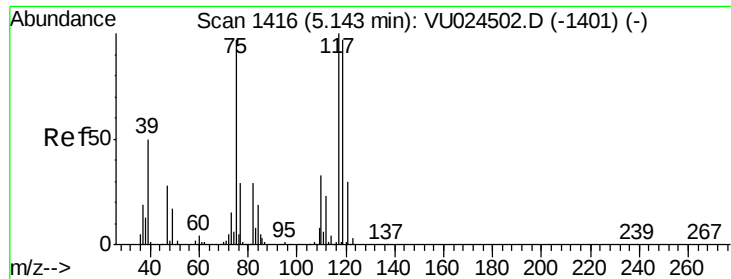
4.85

4.90

4.95

Time-->

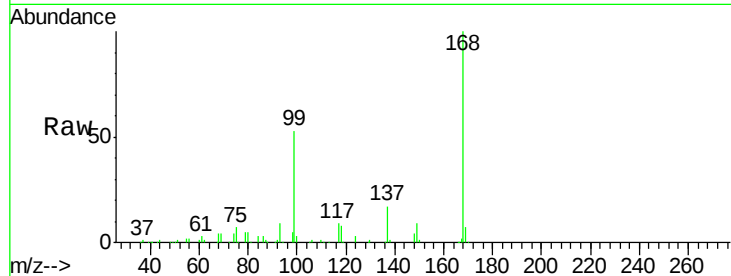




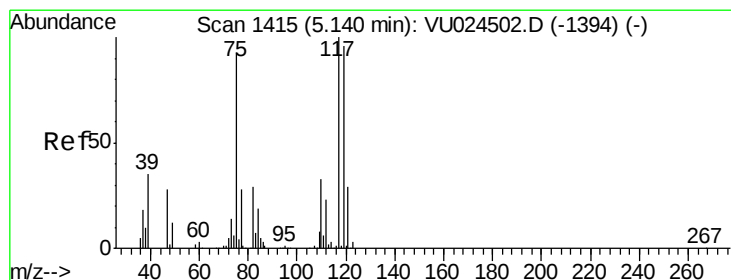
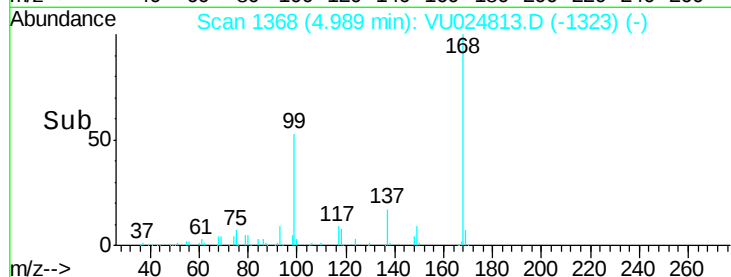
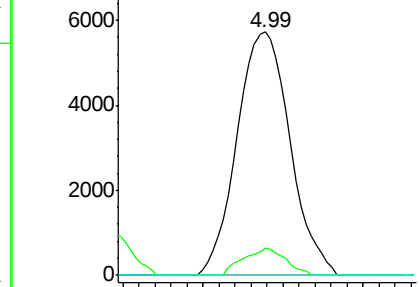
#36
 1,1-Dichloropropene
 Concen: 3.796 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024813.D
 Acq: 21 Jun 2018 16:05

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0185

Tot Ion	75	110	77	Resp	Lower	Upper
12986	100	8.9	0.0		17.0	50.9#
					24.2	36.4#

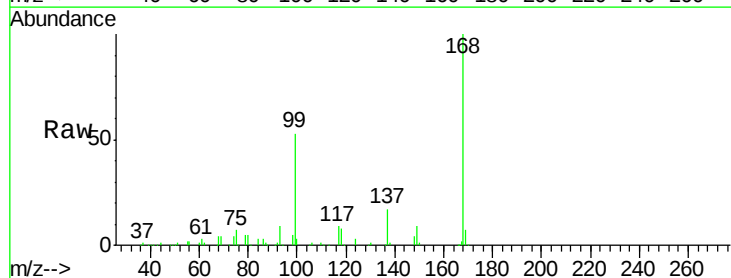


Abundance Ion 74.90 (74.60 to 75.60): VU024813.D (-1323) (-)
 Ion 109.90 (109.60 to 110.60): VU024813.D (-1323) (-)
 Ion 76.90 (76.60 to 77.60): VU024813.D (-1323) (-)

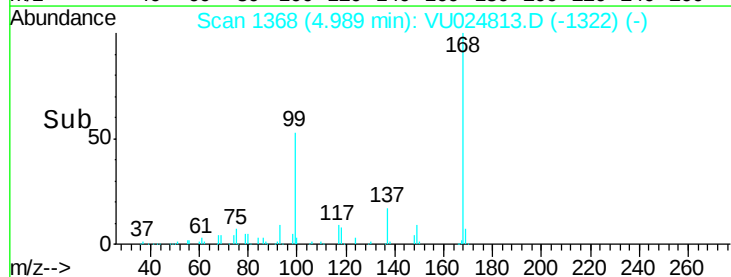
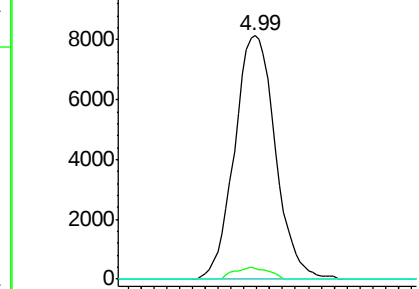


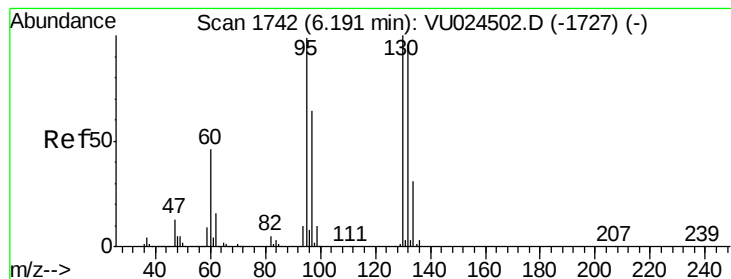
#38
 Carbon Tetrachloride
 Concen: 4.762 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024813.D
 Acq: 21 Jun 2018 16:05

Tgt Ion	117	119	121	Resp	Lower	Upper
17918	100	4.5	0.0		76.1	114.1#
					23.7	35.5#



Abundance Ion 116.80 (116.50 to 117.50): VU024813.D (-1322) (-)
 Ion 118.80 (118.50 to 119.50): VU024813.D (-1322) (-)
 Ion 120.80 (120.50 to 121.50): VU024813.D (-1322) (-)





#44

Trichloroethene

Concen: 8.087 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

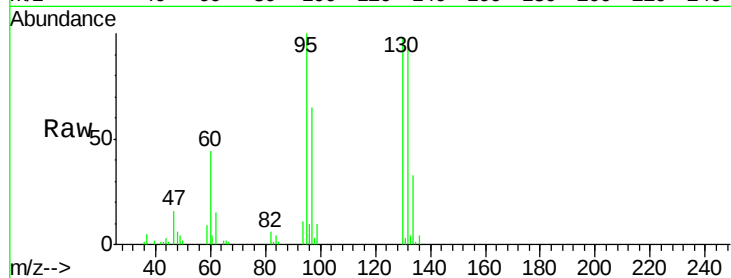
S39-0185

Tot Ion:130 Resp: 22439

Ion Ratio Lower Upper

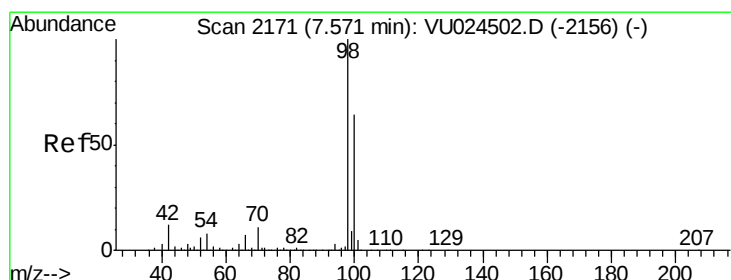
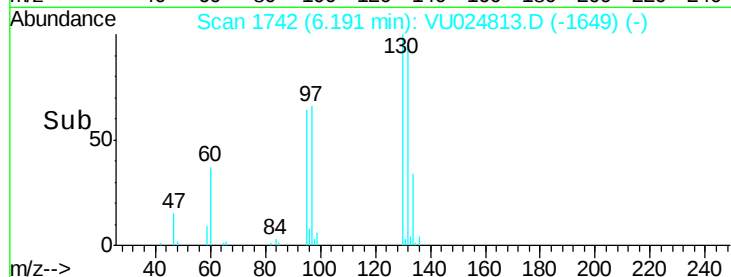
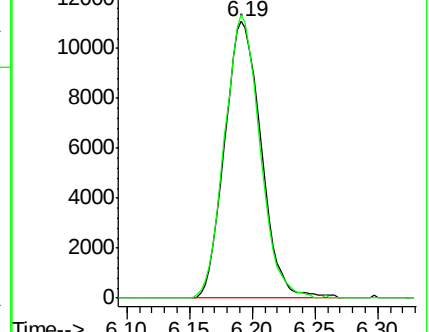
130 100

95 102.2 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024813.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024813.D (-1649) (-)



#50

Toluene-d8

Concen: 47.774 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024813.D

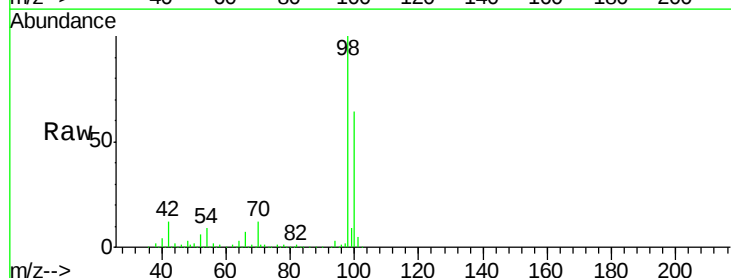
Acq: 21 Jun 2018 16:05

Tgt Ion: 98 Resp: 421085

Ion Ratio Lower Upper

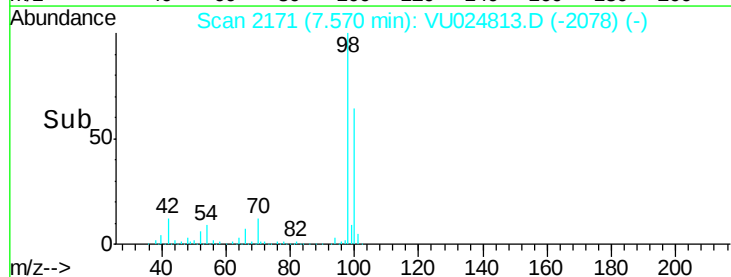
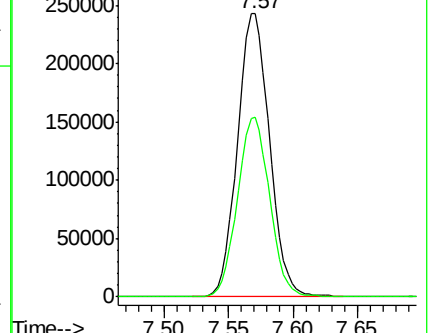
98 100

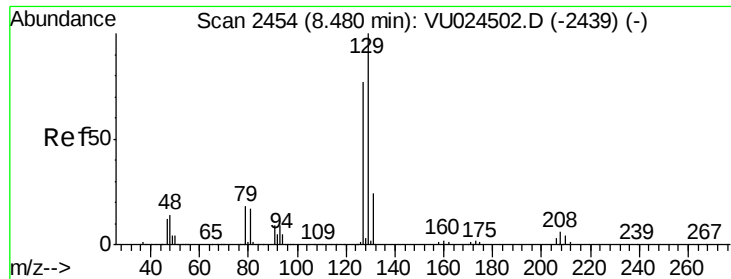
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024813.D (-2078) (-)

Ion 100.00 (99.70 to 100.70): VU024813.D (-2078) (-)

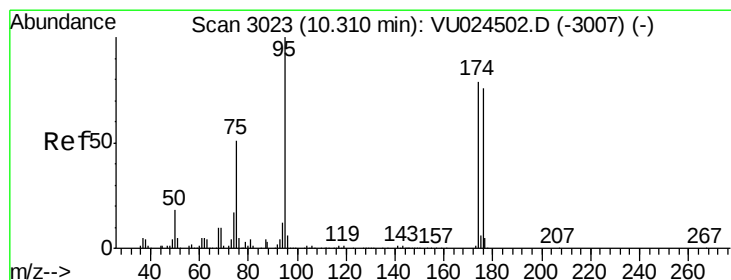
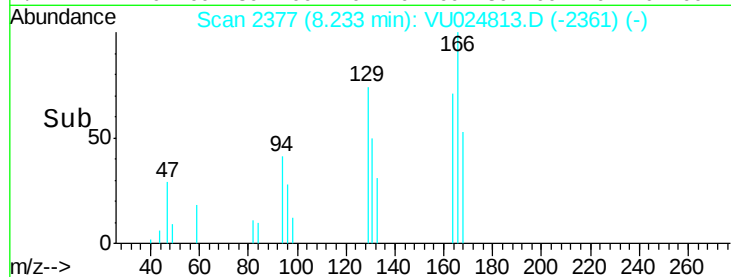
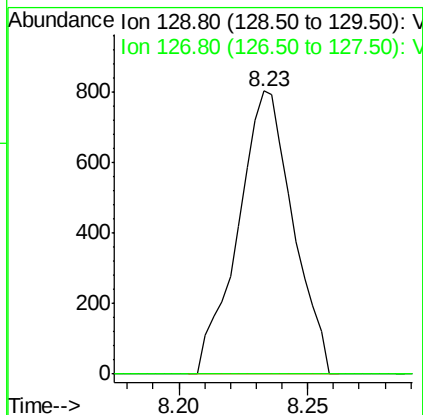
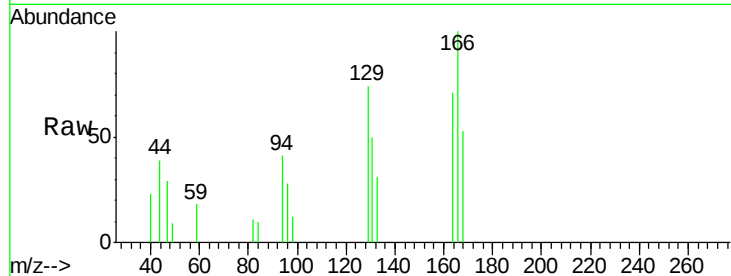




#60
 Dibromochloromethane
 Concen: 0.376 ug/l
 RT: 8.23 min Scan# 2377
 Delta R.T. -0.25 min
 Lab File: VU024813.D
 Acq: 21 Jun 2018 16:05

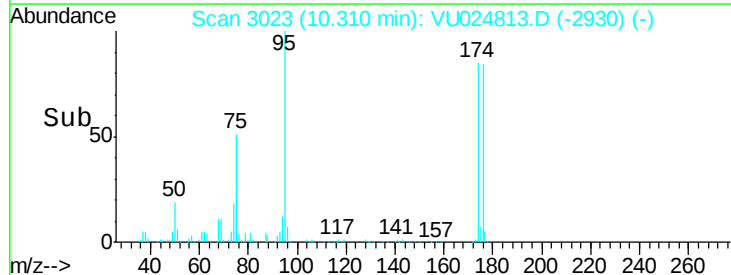
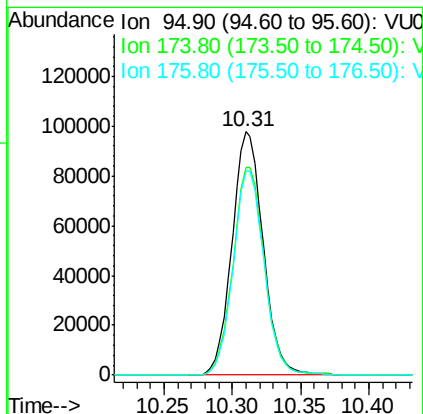
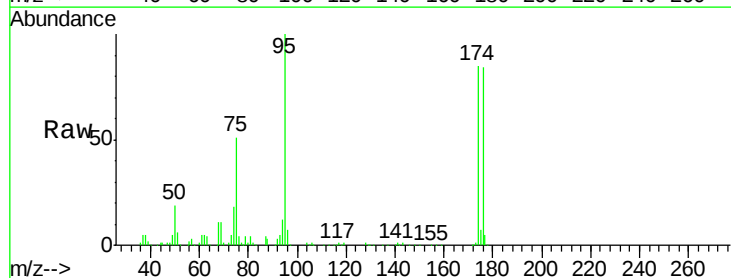
Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0185

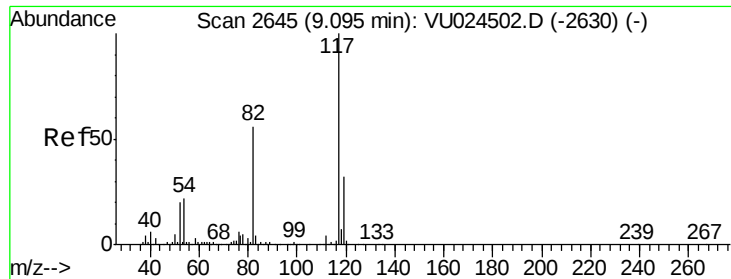
Tot Ion:129 Resp: 1197
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 44.337 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU024813.D
 Acq: 21 Jun 2018 16:05

Tgt Ion: 95 Resp: 155160
 Ion Ratio Lower Upper
 95 100
 174 86.1 0.0 165.8
 176 83.7 0.0 159.4

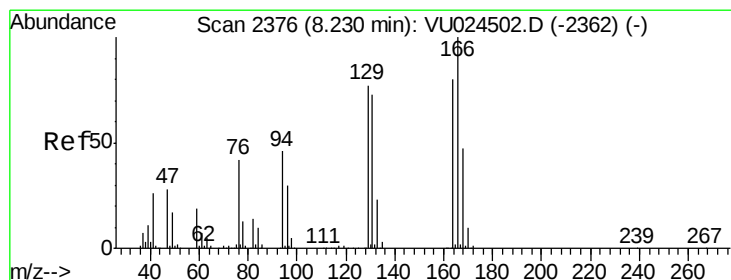
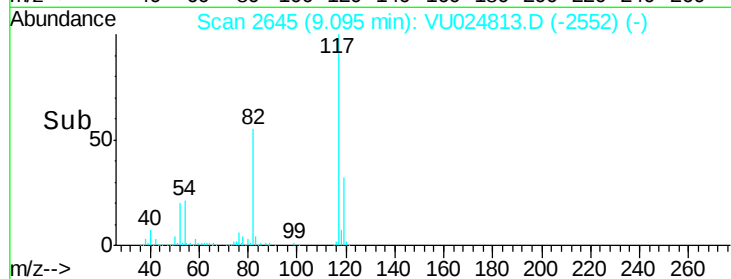
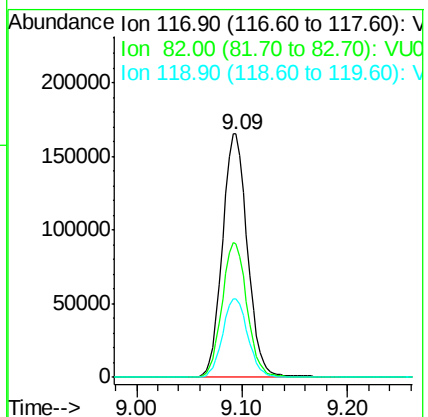
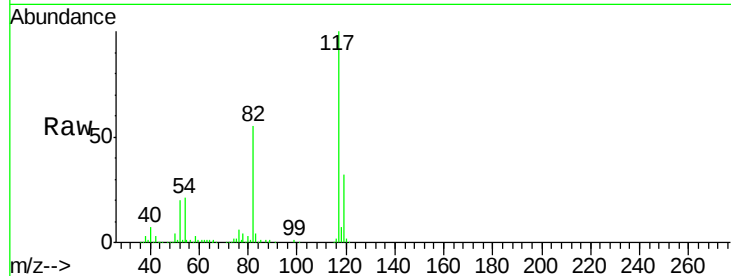




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024813.D
Acq: 21 Jun 2018 16:05

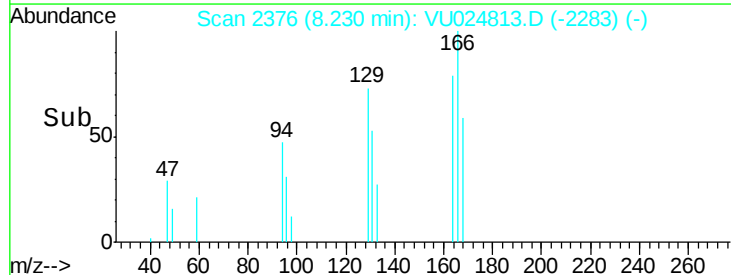
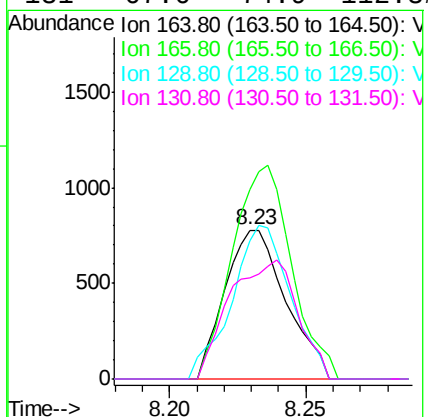
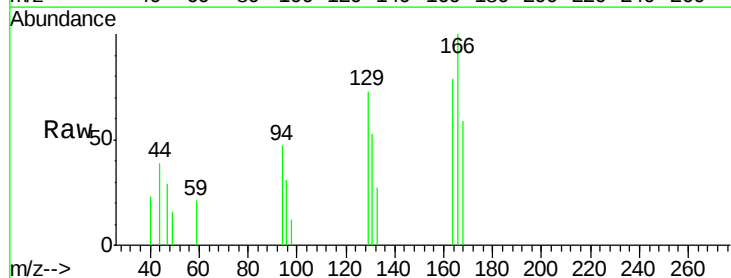
Instrument :
MSVOA_U
ClientSampleId :
S39-0185

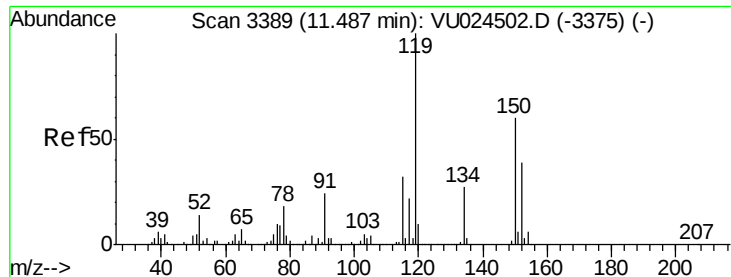
Tot Ion:117 Resp: 271496
Ion Ratio Lower Upper
117 100
82 54.8 44.3 66.5
119 32.4 25.4 38.2



#64
Tetrachloroethene
Concen: 0.469 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU024813.D
Acq: 21 Jun 2018 16:05

Tgt Ion:164 Resp: 1210
Ion Ratio Lower Upper
164 100
166 127.4 101.7 152.5
129 92.5 76.9 115.3
131 67.6 74.9 112.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

S39-0185

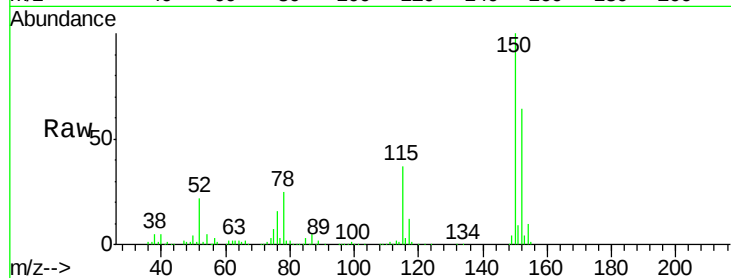
Tot Ion:152 Resp: 146062

Ion Ratio Lower Upper

152 100

115 57.6 43.0 129.0

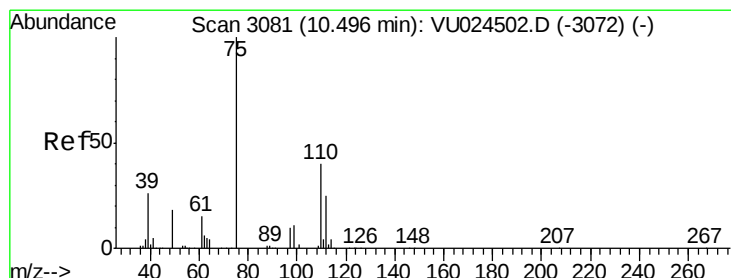
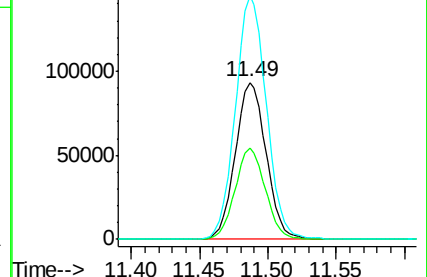
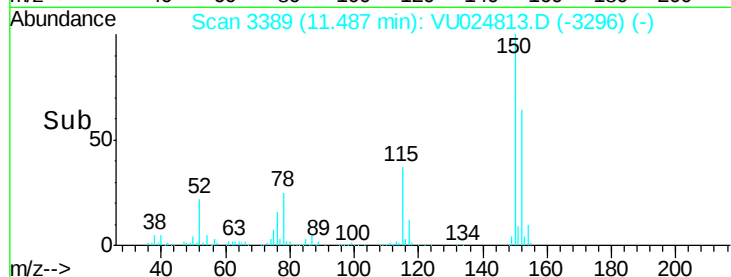
150 156.0 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.811 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024813.D

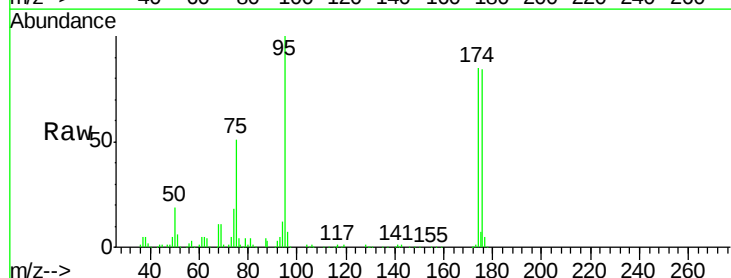
Acq: 21 Jun 2018 16:05

Tgt Ion: 75 Resp: 79787

Ion Ratio Lower Upper

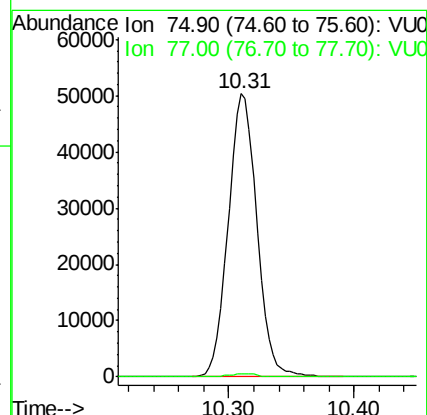
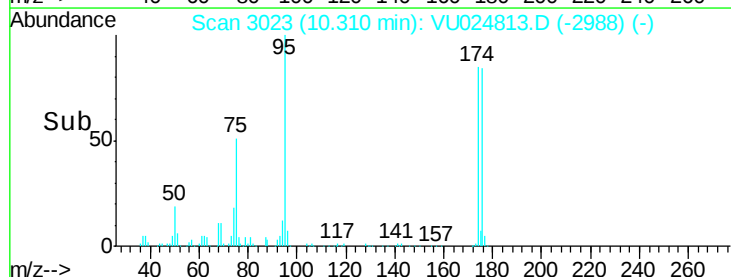
75 100

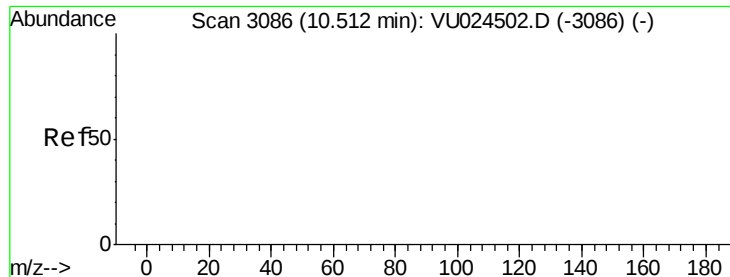
77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.424 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

Instrument :

MSVOA_U

ClientSampleId :

S39-0185

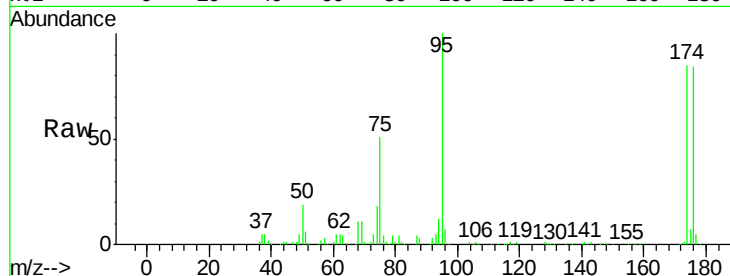
Tot Ion: 75 Resp: 79787

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

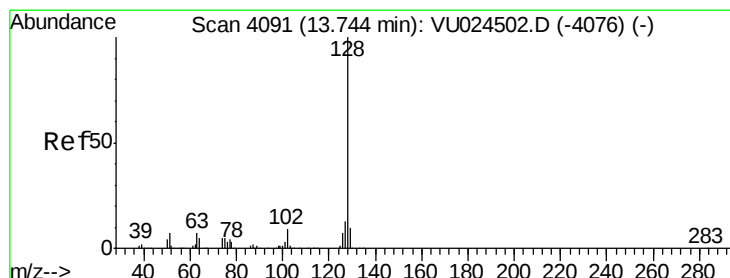
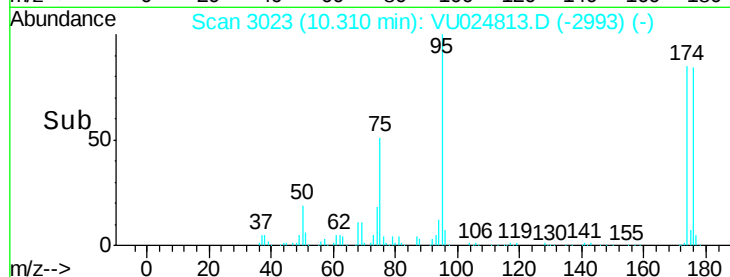
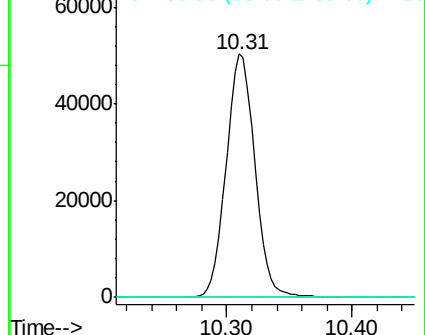
89 0.0 0.0 0.0



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: 0.723 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU024813.D

Acq: 21 Jun 2018 16:05

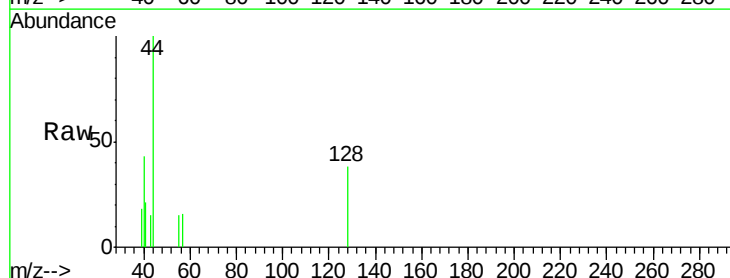
Tgt Ion: 128 Resp: 479

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) (-)

