

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U062318\
 Data File : VU024843.D
 Acq On : 22 Jun 2018 19:50
 Operator : MD/SY
 Sample : J3561-01DL 20X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S32-0623DL

Quant Time: Jun 23 02:15:27 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	205265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308331	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	286014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	153830	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	147620	44.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.10%	
35) Dibromofluoromethane	4.89	113	119885	46.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.70%	
50) Toluene-d8	7.57	98	452222	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
62) 4-Bromofluorobenzene	10.31	95	166372	44.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.78%	

Target Compounds

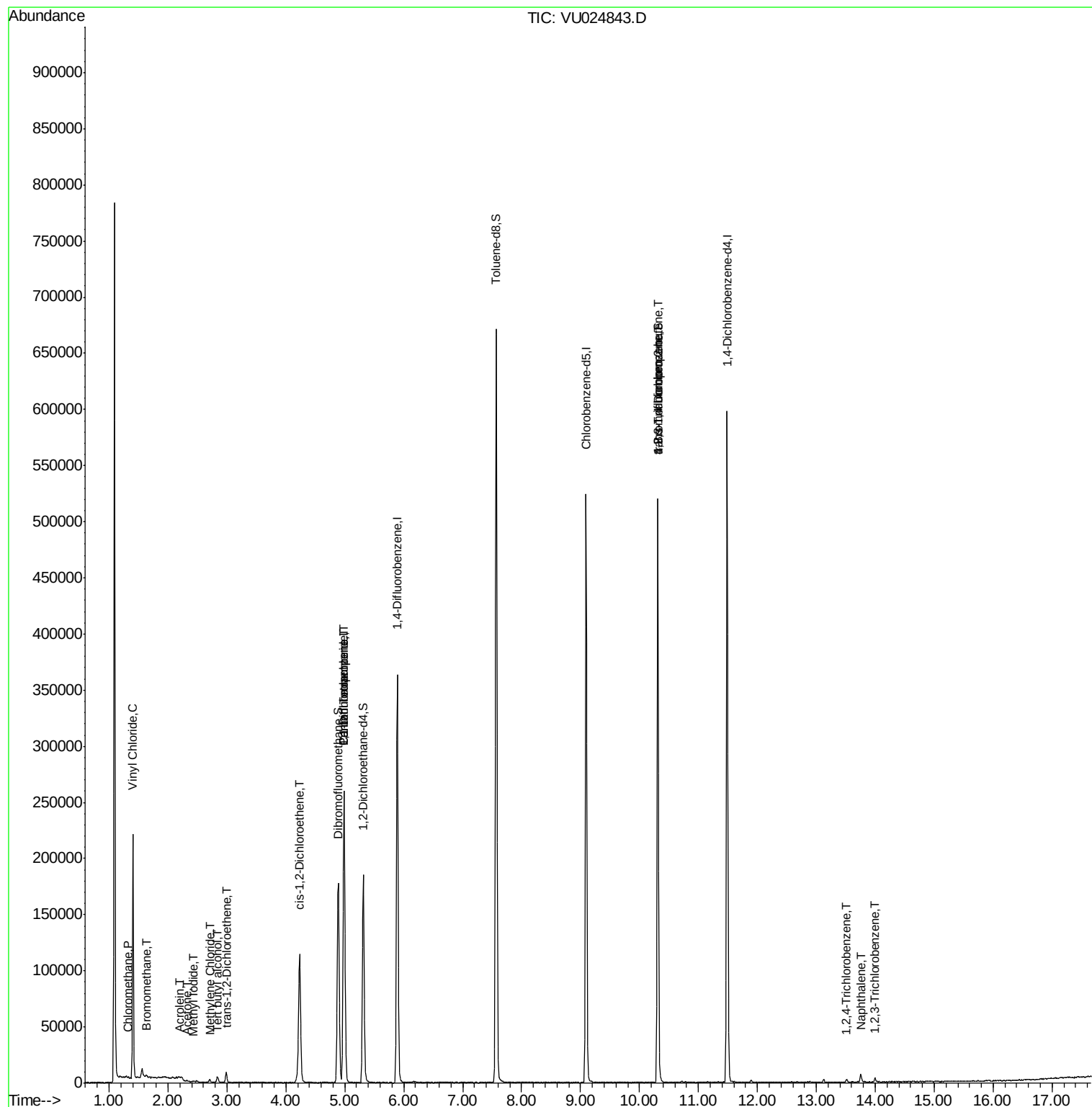
						Qvalue
3) Chloromethane	1.33	50	887	0.34	ug/l	# 74
4) Vinyl Chloride	1.40	62	135109	49.91	ug/l	98
5) Bromomethane	1.63	94	873	0.67	ug/l	99
10) Methyl Iodide	2.42	142	491	5.49	ug/l	# 75
11) Tert butyl alcohol	2.84	59	2522	3.09	ug/l	# 76
13) Acrolein	2.19	56	350	0.82	ug/l	# 49
16) Acetone	2.33	43	1488	0.83	ug/l	97
20) Methylene Chloride	2.71	84	1315	0.47	ug/l	# 81
21) trans-1,2-Dichloroethene	2.99	96	3546	1.38	ug/l	88
27) cis-1,2-Dichloroethene	4.23	96	64206	21.69	ug/l	87
31) Cyclohexane	4.99	56	3978	Below Cal		# 1
36) 1,1-Dichloropropene	4.99	75	15057	4.16	ug/l	# 51
38) Carbon Tetrachloride	4.99	117	19856	4.98	ug/l	# 15
76) 1,2,3-Trichloropropane	10.31	75	86747	25.61	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.31	75	86747	59.28	ug/l	# 100
93) 1,2,4-Trichlorobenzene	13.51	180	1266	0.37	ug/l	84
95) Naphthalene	13.75	128	7343	1.32	ug/l	98
96) 1,2,3-Trichlorobenzene	14.00	180	1566	0.46	ug/l	91

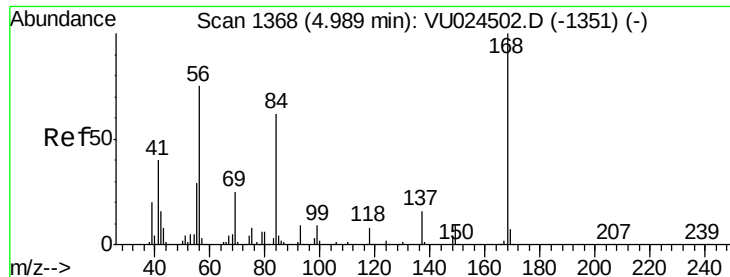
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

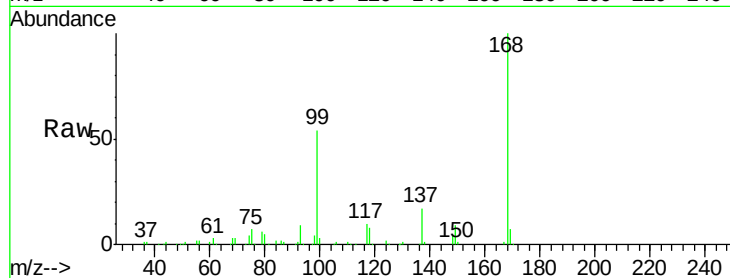
S32-0623DL

Tot Ion:168 Resp: 205265

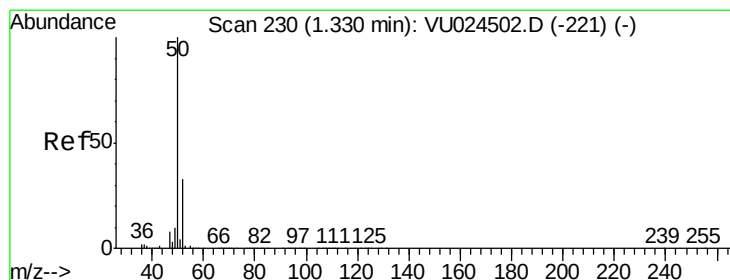
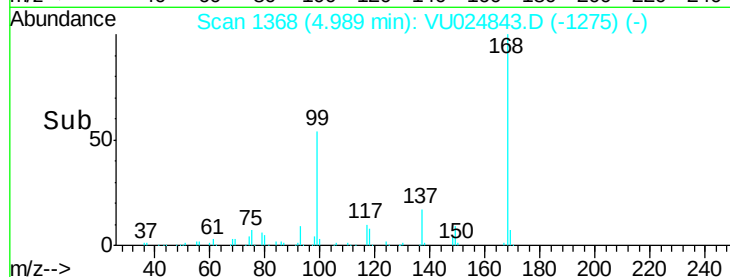
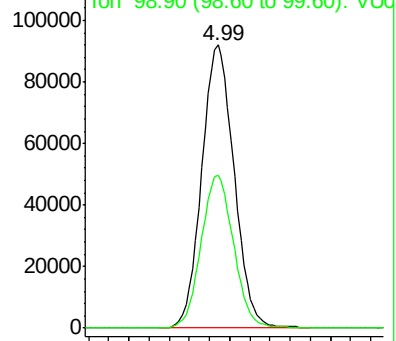
Ion Ratio Lower Upper

168 100

99 54.1 43.2 64.8



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



#3

Chloromethane

Concen: 0.34 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024843.D

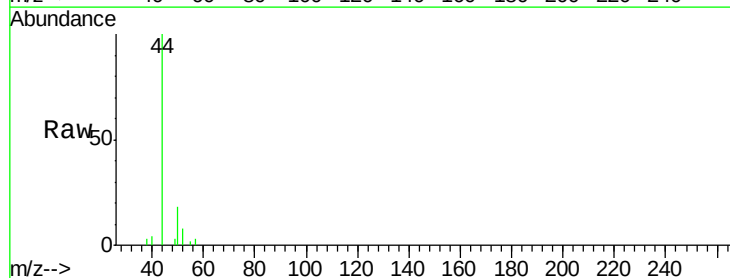
Acq: 22 Jun 2018 19:50

Tgt Ion: 50 Resp: 887

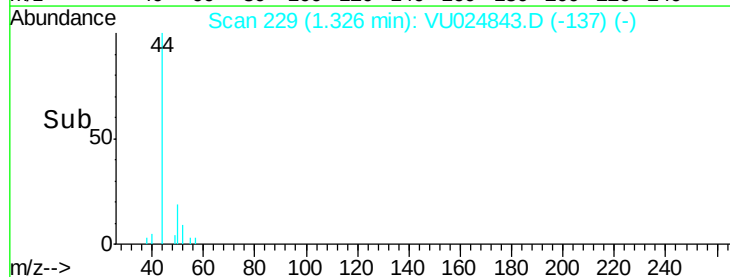
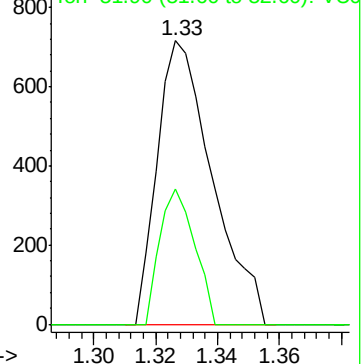
Ion Ratio Lower Upper

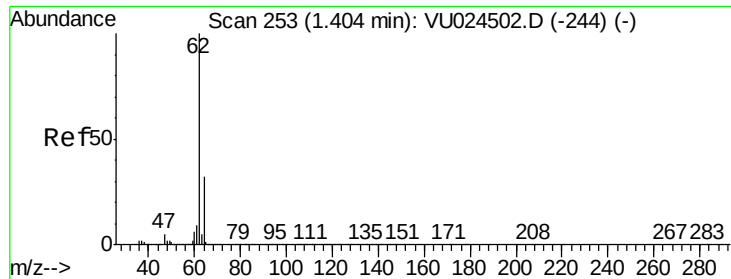
50 100

52 47.9 26.4 39.6#



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





#4

Vinyl Chloride

Concen: 49.91 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

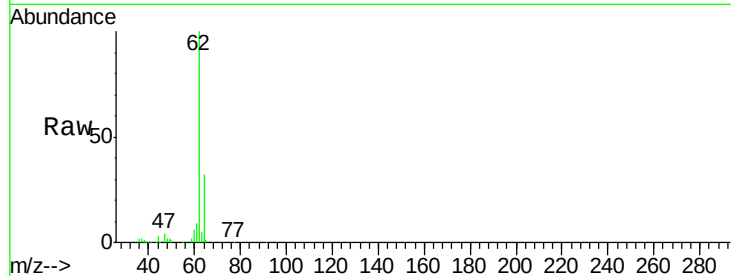
S32-0623DL

Tot Ion: 62 Resp: 135109

Ion Ratio Lower Upper

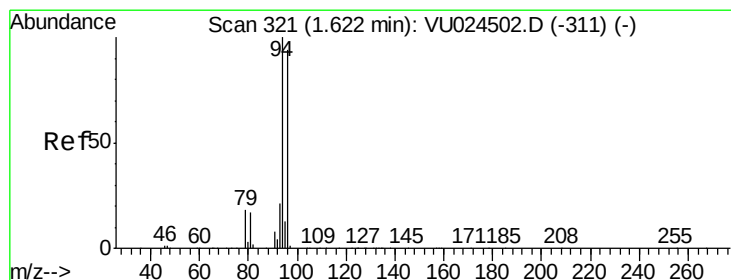
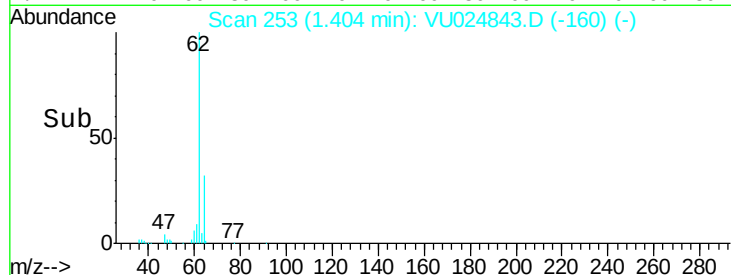
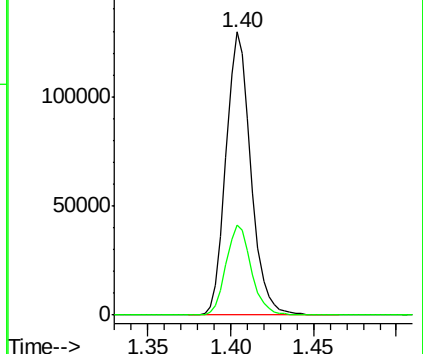
62 100

64 31.9 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.67 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU024843.D

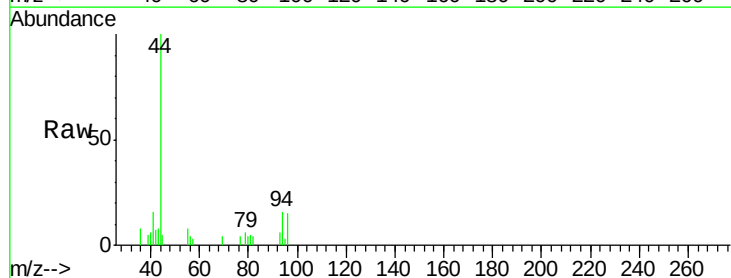
Acq: 22 Jun 2018 19:50

Tgt Ion: 94 Resp: 873

Ion Ratio Lower Upper

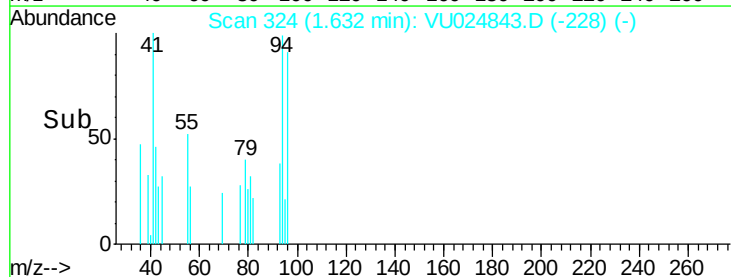
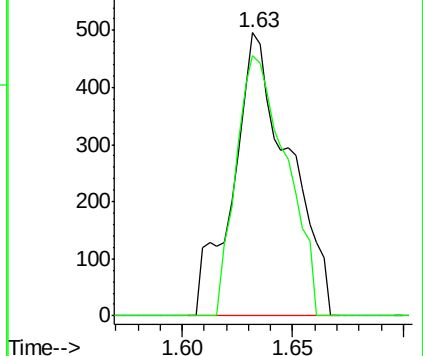
94 100

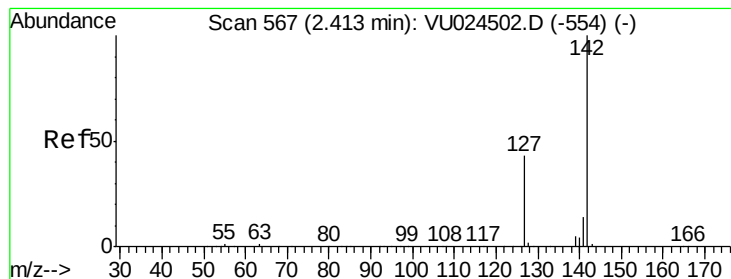
96 91.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0





#10

Methvl Iodide

Concen: 5.49 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

S32-0623DL

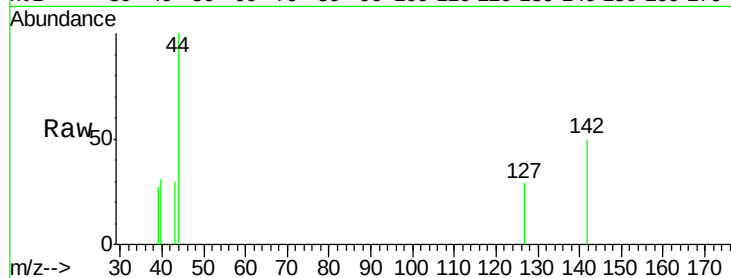
Tot Ion:142 Resp: 491

Ion Ratio Lower Upper

142 100

127 58.9 35.6 53.4#

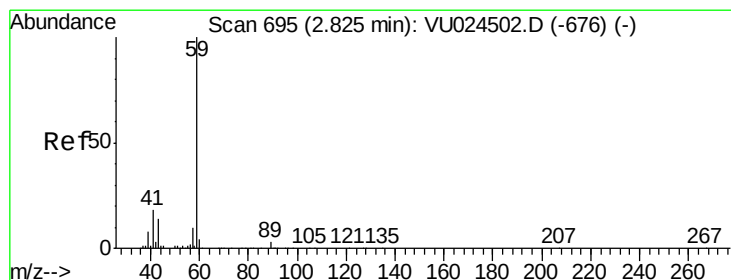
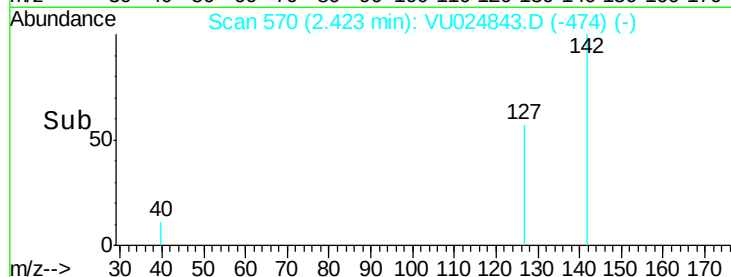
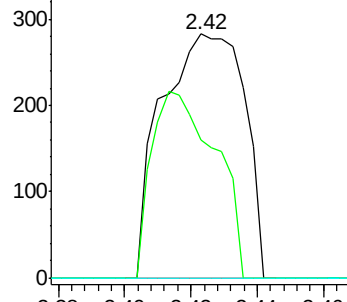
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 3.09 ug/l

RT: 2.84 min Scan# 700

Delta R.T. 0.02 min

Lab File: VU024843.D

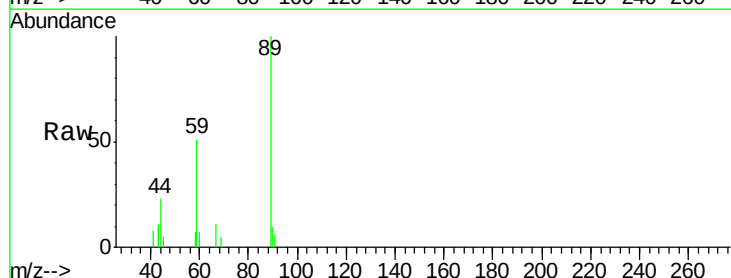
Acq: 22 Jun 2018 19:50

Tgt Ion: 59 Resp: 2522

Ion Ratio Lower Upper

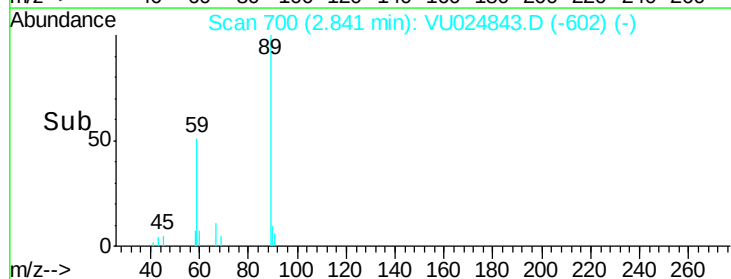
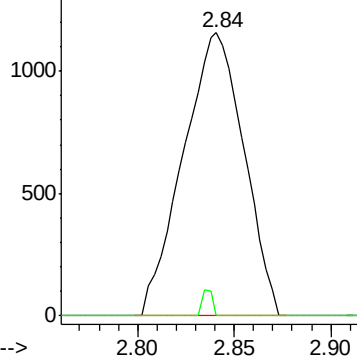
59 100

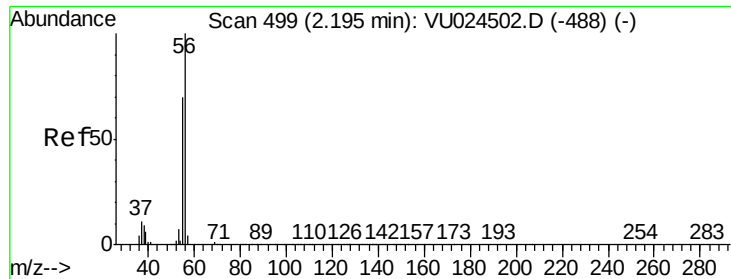
57 1.6 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.82 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampled :

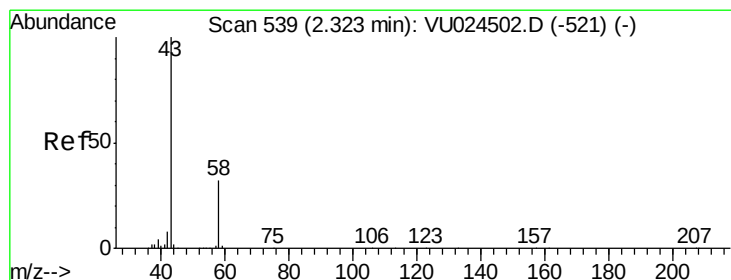
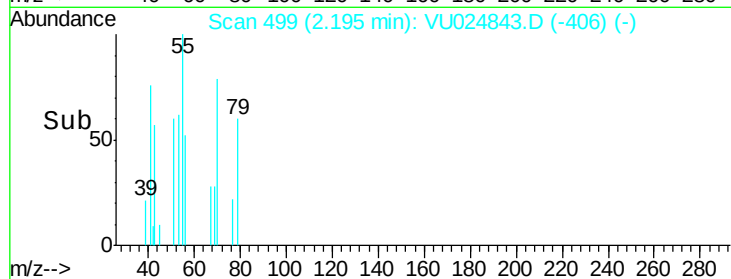
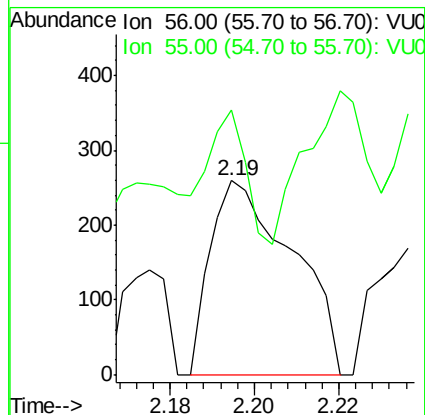
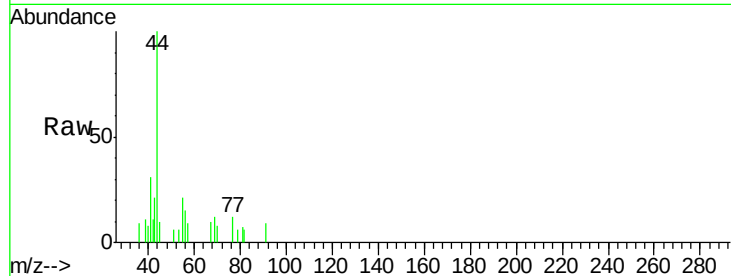
S32-0623DL

Tot Ion: 56 Resp: 350

Ion Ratio Lower Upper

56 100

55 30.6 58.4 87.6#



#16

Acetone

Concen: 0.83 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024843.D

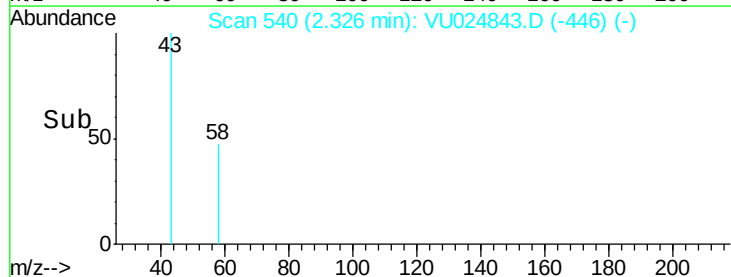
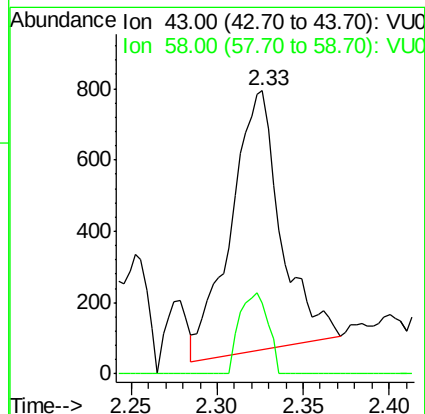
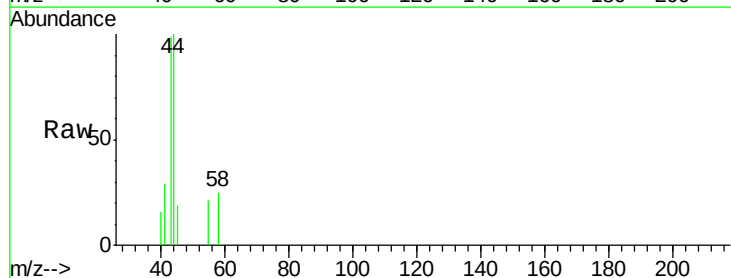
Acq: 22 Jun 2018 19:50

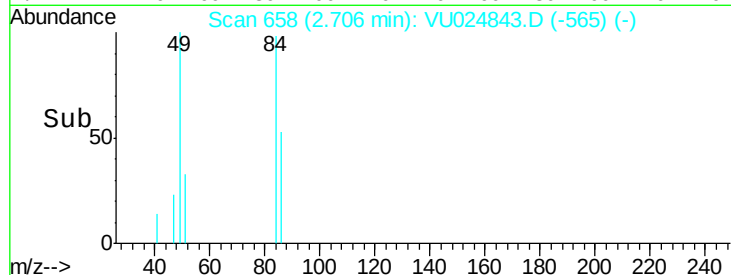
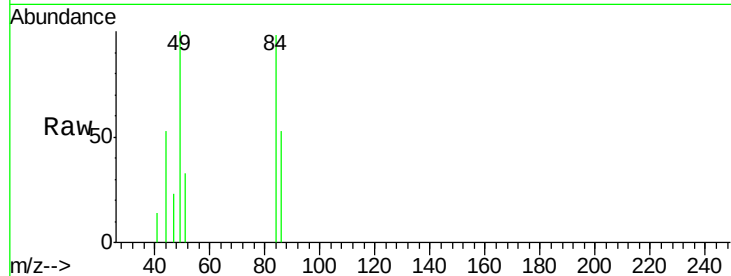
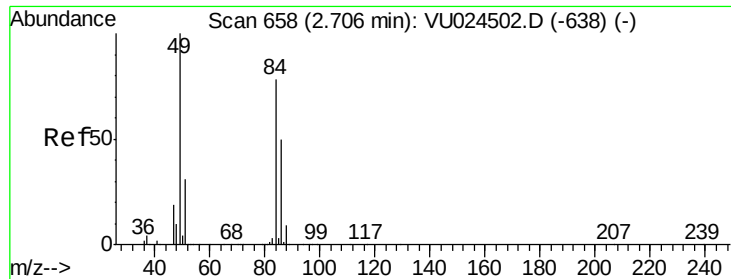
Tgt Ion: 43 Resp: 1488

Ion Ratio Lower Upper

43 100

58 28.7 24.4 36.6

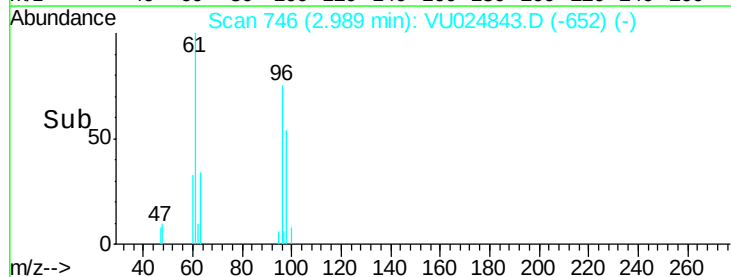
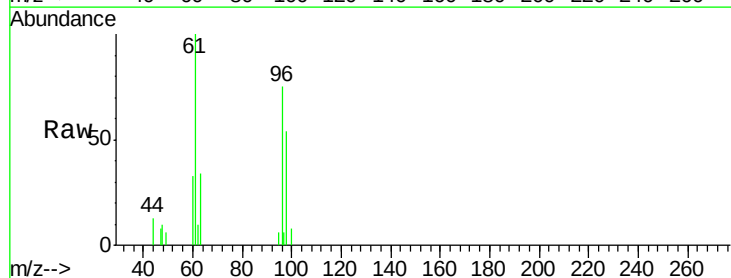
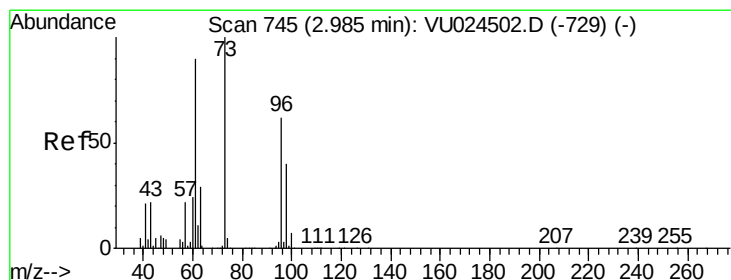
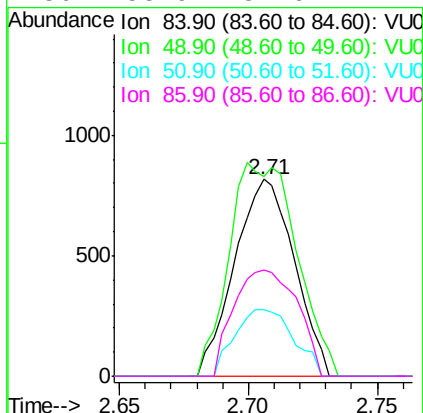




#20
Methylene Chloride
Concen: 0.47 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU024843.D
Acq: 22 Jun 2018 19:50

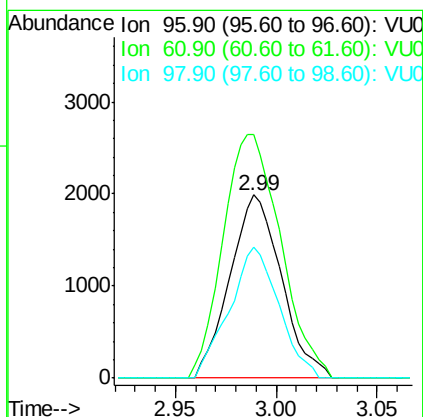
Instrument :
MSVOA_U
ClientSampleId :
S32-0623DL

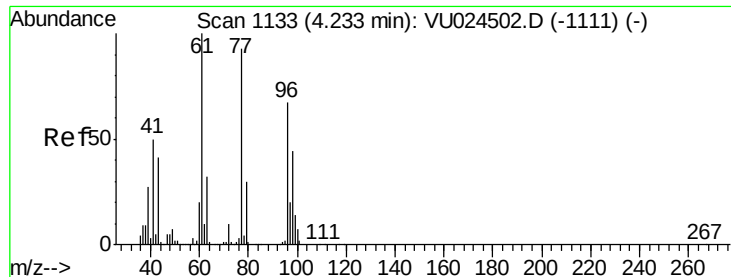
Tot Ion	84	Resp	1315
Ion	Ratio	Lower	Upper
84	100		
49	101.7	103.8	155.8#
51	33.7	32.0	48.0
86	53.9	51.6	77.4



#21
trans-1,2-Dichloroethene
Concen: 1.38 ug/l
RT: 2.99 min Scan# 746
Delta R.T. 0.00 min
Lab File: VU024843.D
Acq: 22 Jun 2018 19:50

Tgt Ion	96	Resp	3546
Ion	Ratio	Lower	Upper
96	100		
61	133.1	119.4	179.0
98	71.7	51.1	76.7





#27

cis-1,2-Dichloroethene

Concen: 21.69 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

S32-0623DL

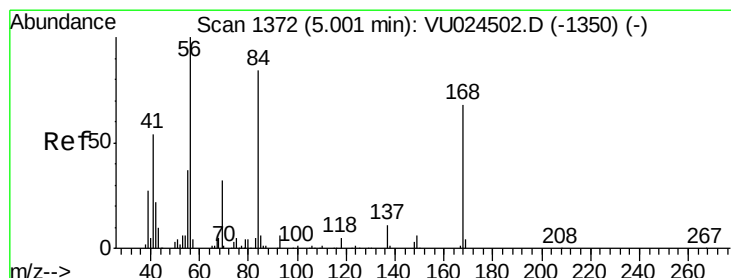
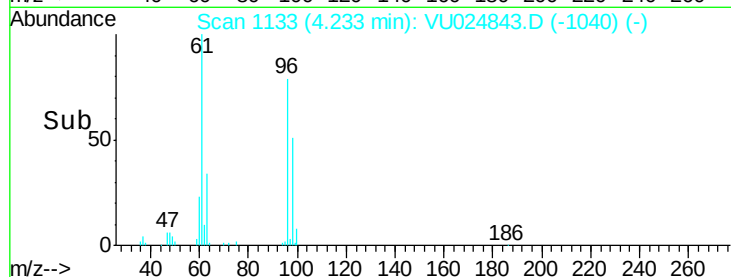
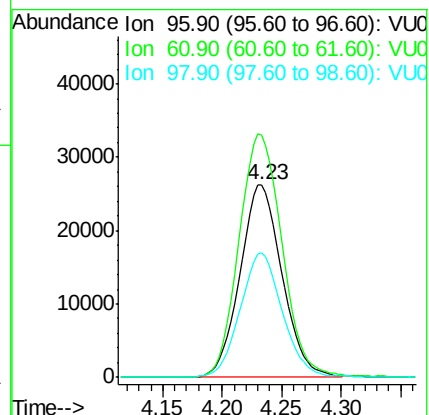
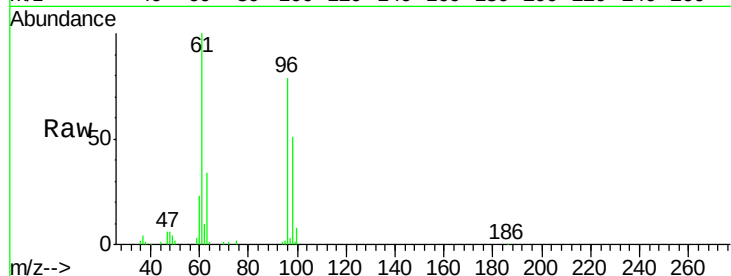
Tot Ion: 96 Resp: 64206

Ion Ratio Lower Upper

96 100

61 129.8 0.0 306.6

98 64.7 0.0 128.8



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

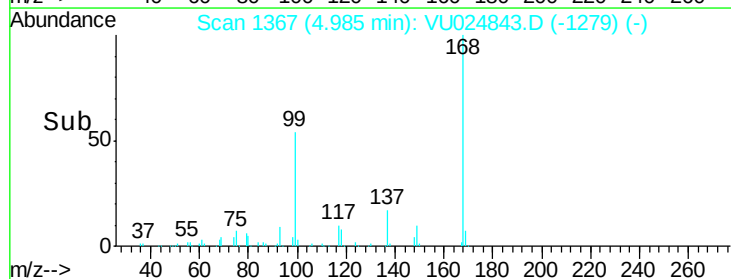
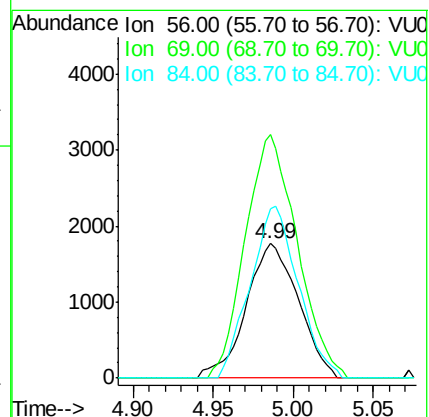
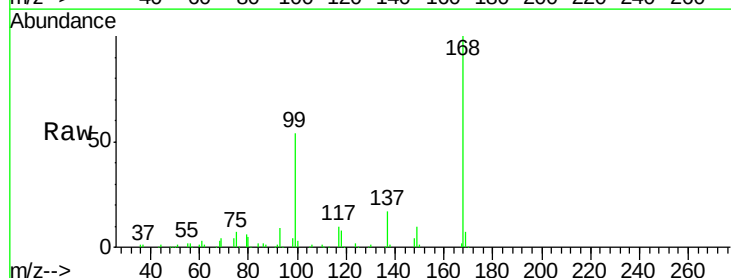
Tgt Ion: 56 Resp: 3978

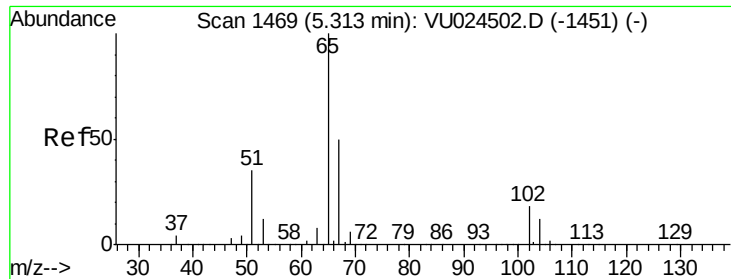
Ion Ratio Lower Upper

56 100

69 180.9 24.8 37.2#

84 126.1 65.2 97.8#

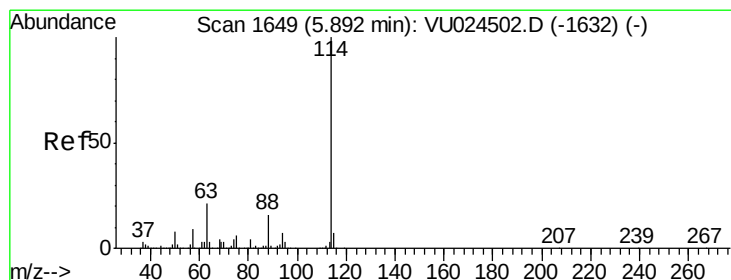
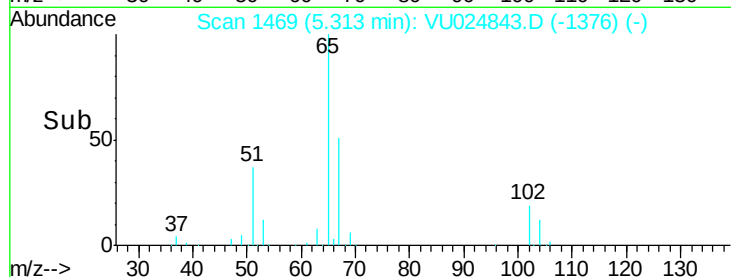
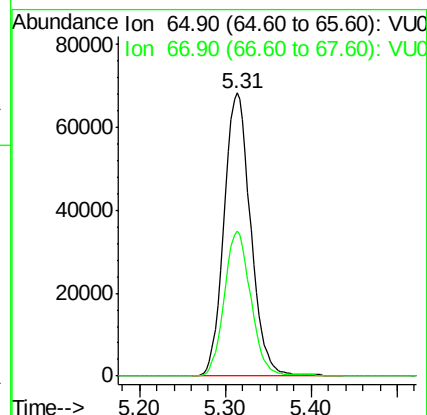
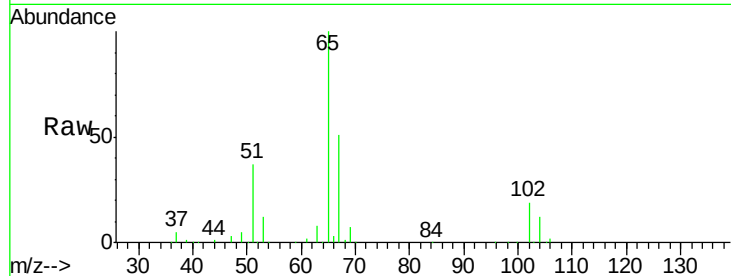




#33
 1,2-Dichloroethane-d4
 Concen: 44.05 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024843.D
 Acq: 22 Jun 2018 19:50

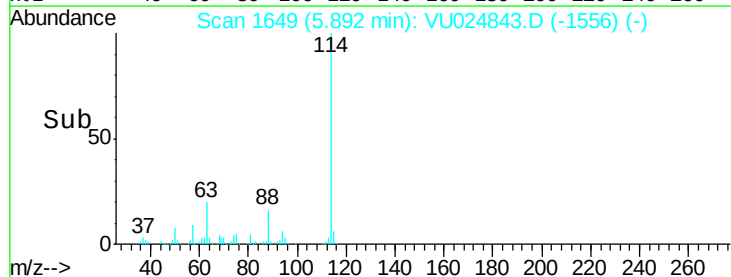
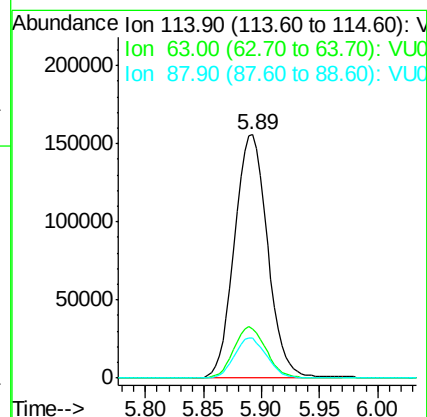
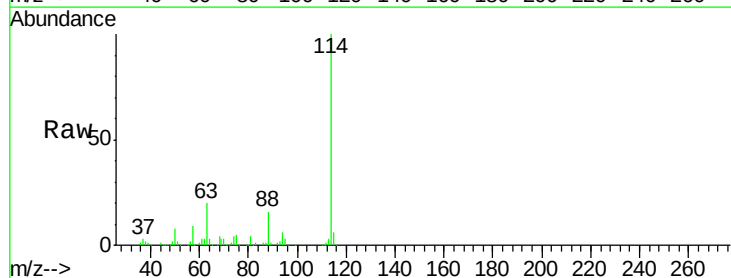
Instrument :
 MSVOA_U
 ClientSampleId :
 S32-0623DL

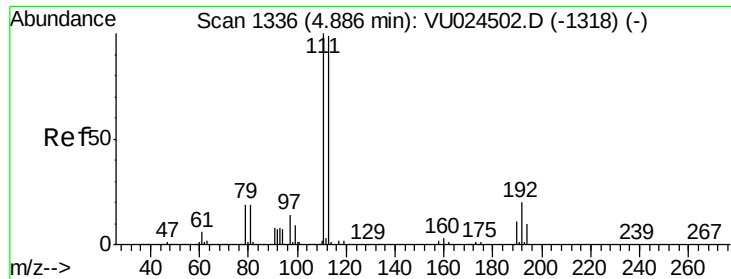
Tot Ion: 65 Resp: 147620
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024843.D
 Acq: 22 Jun 2018 19:50

Tgt Ion: 114 Resp: 308331
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 45.4
 88 16.2 0.0 31.0

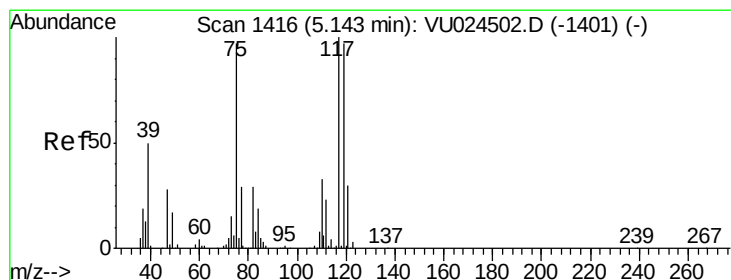
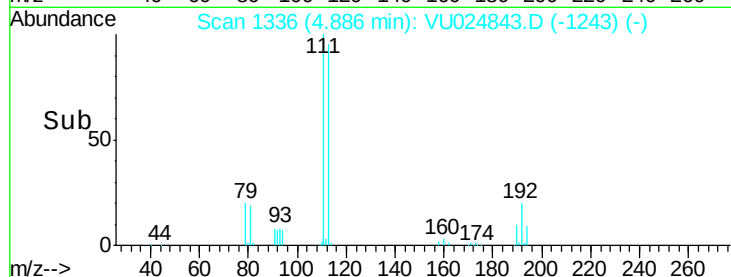
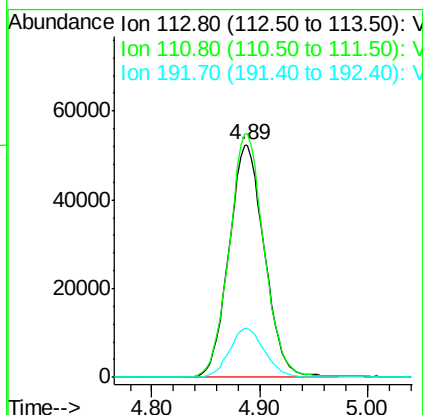
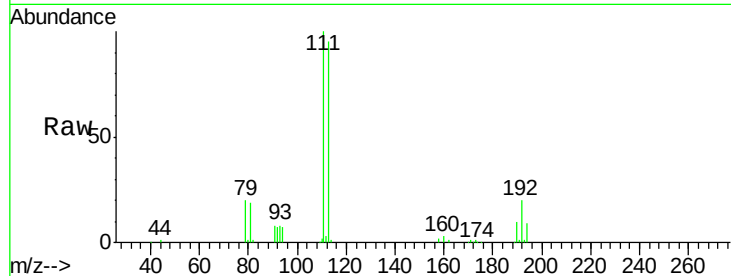




#35
 Dibromofluoromethane
 Concen: 46.85 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU024843.D
 Acq: 22 Jun 2018 19:50

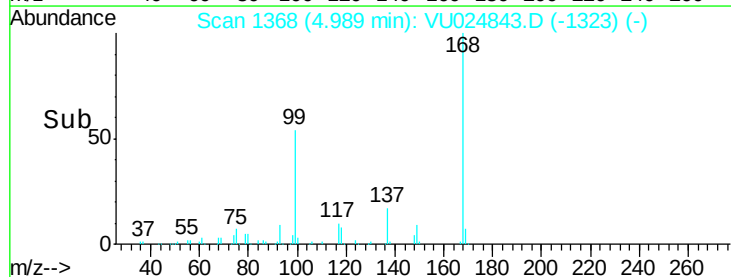
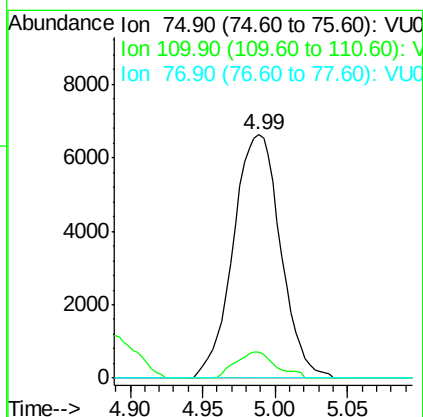
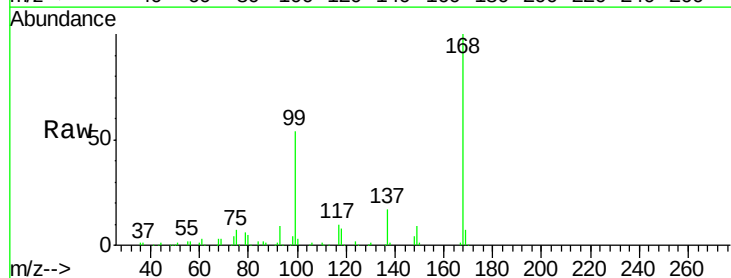
Instrument :
 MSVOA_U
 ClientSampleId :
 S32-0623DL

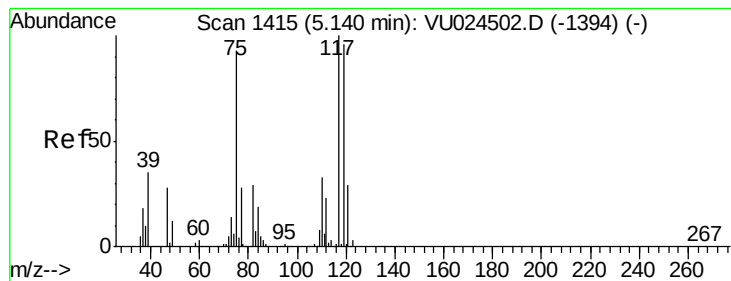
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.4
192	20.9	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.16 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024843.D
 Acq: 22 Jun 2018 19:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.98 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

S32-0623DL

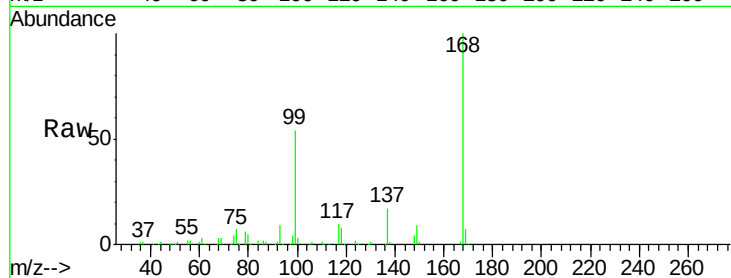
Tot Ion:117 Resp: 19856

Ion Ratio Lower Upper

117 100

119 3.3 76.1 114.1#

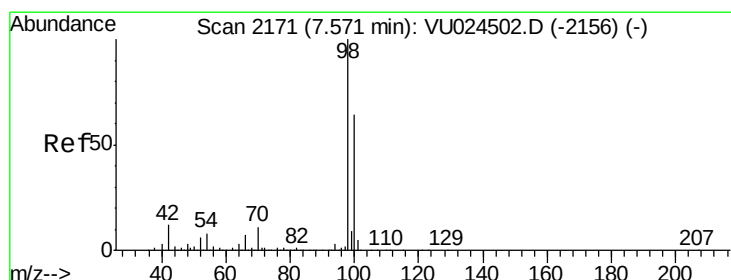
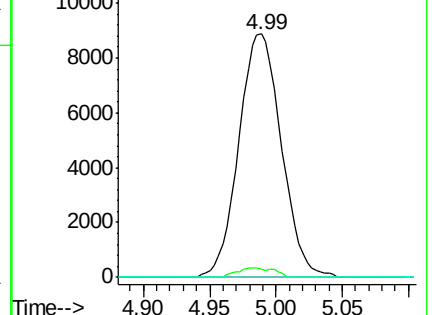
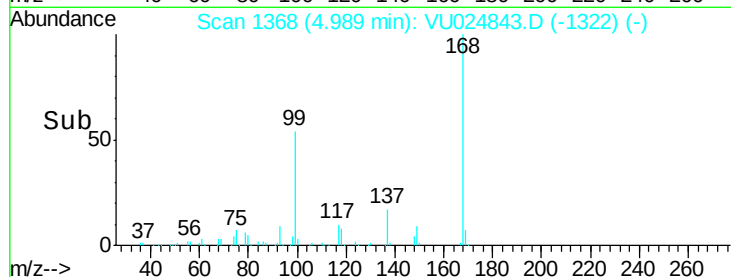
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.45 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024843.D

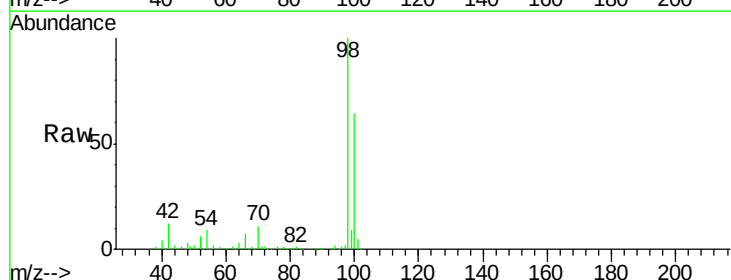
Acq: 22 Jun 2018 19:50

Tgt Ion: 98 Resp: 452222

Ion Ratio Lower Upper

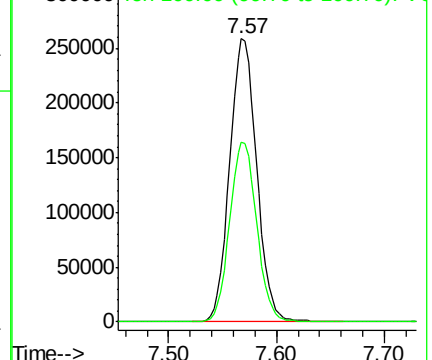
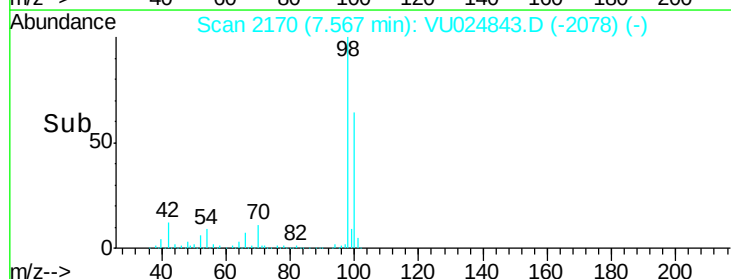
98 100

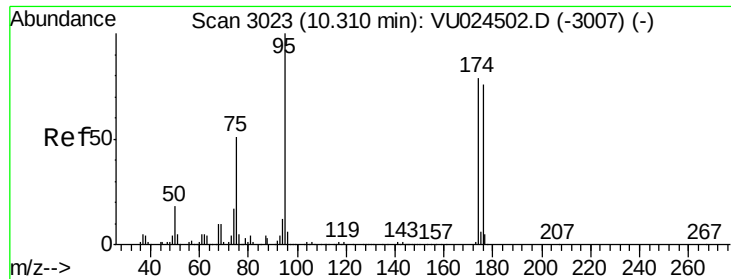
100 63.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

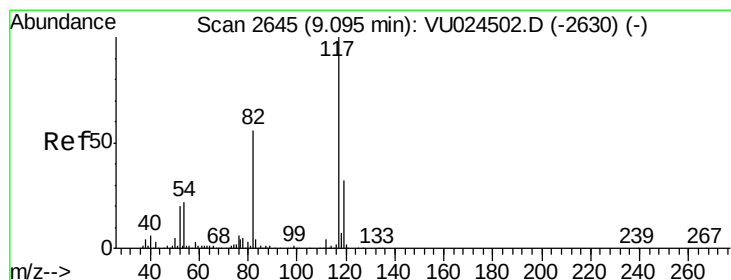
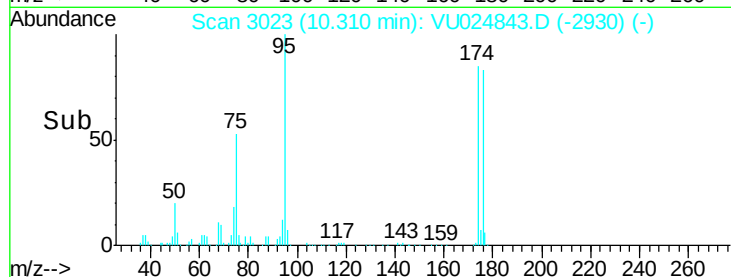
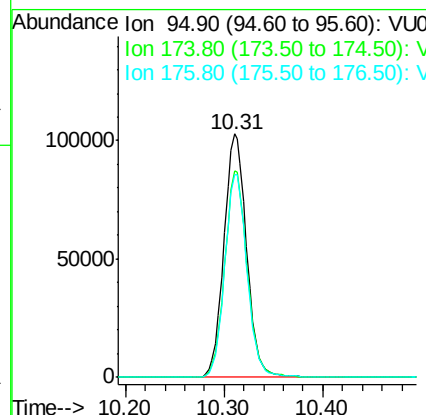
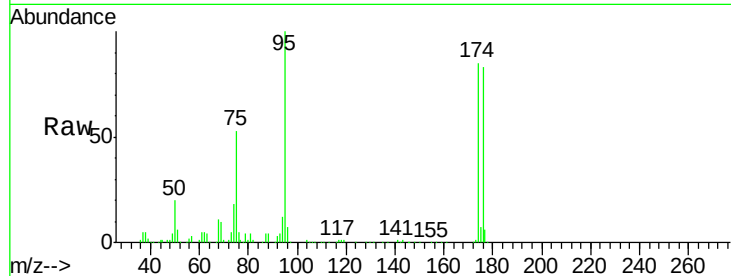




#62
4-Bromofluorobenzene
Concen: 44.89 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024843.D
Acq: 22 Jun 2018 19:50

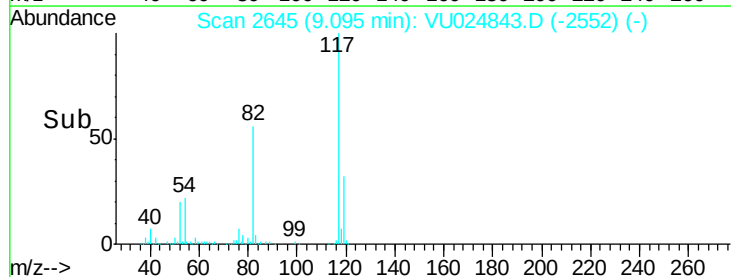
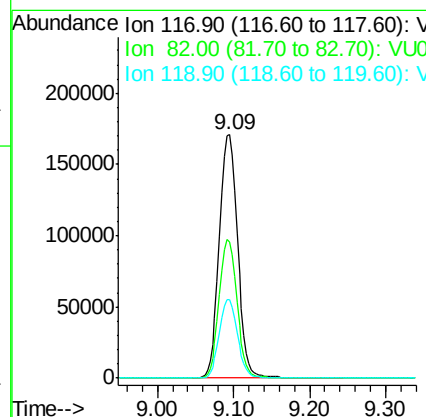
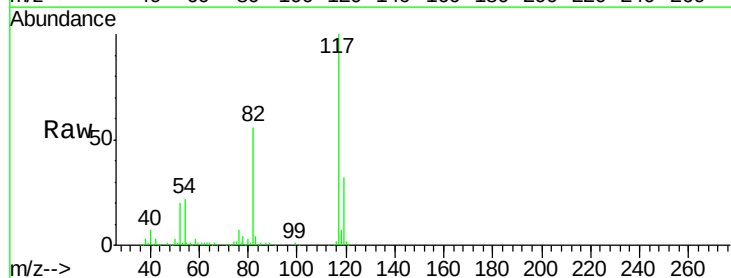
Instrument :
MSVOA_U
ClientSampleId :
S32-0623DL

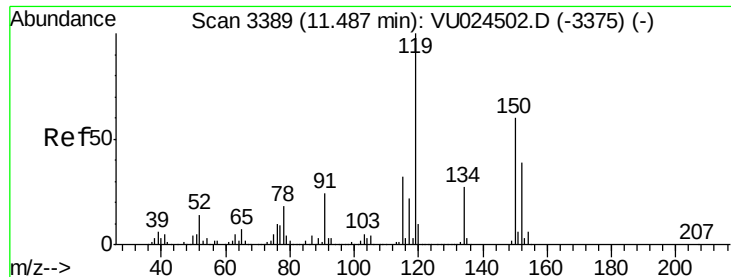
Tot Ion: 95 Resp: 166372
Ion Ratio Lower Upper
95 100
174 84.0 0.0 165.8
176 82.3 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024843.D
Acq: 22 Jun 2018 19:50

Tgt Ion: 117 Resp: 286014
Ion Ratio Lower Upper
117 100
82 56.1 44.3 66.5
119 32.3 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

S32-0623DL

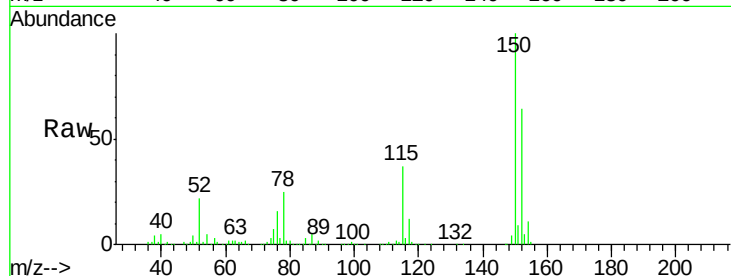
Tot Ion:152 Resp: 153830

Ion Ratio Lower Upper

152 100

115 58.0 43.0 129.0

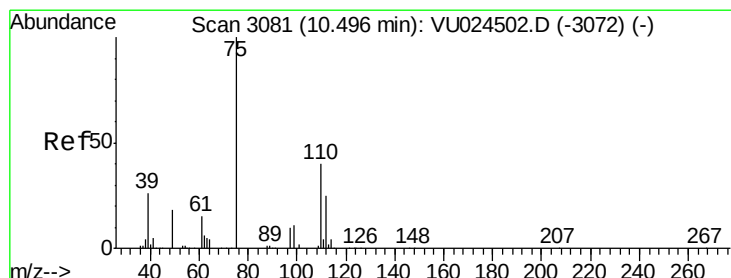
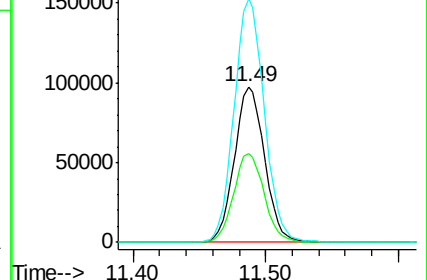
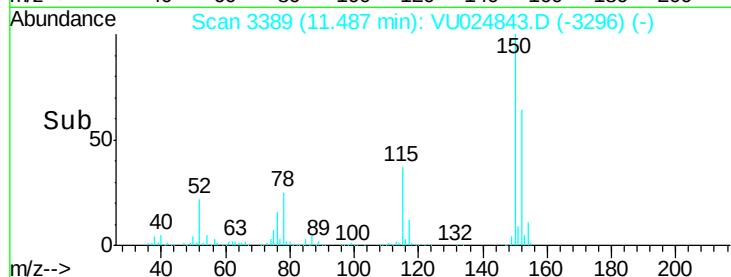
150 157.0 0.0 354.0



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: 25.61 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024843.D

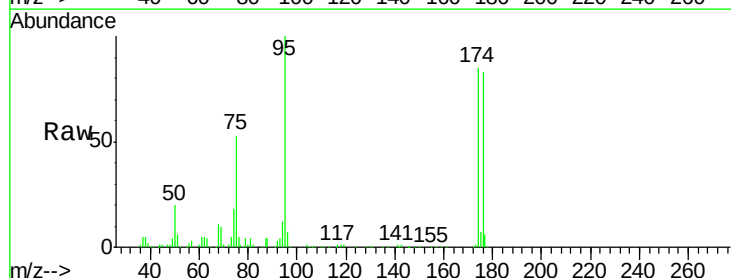
Acq: 22 Jun 2018 19:50

Tgt Ion: 75 Resp: 86747

Ion Ratio Lower Upper

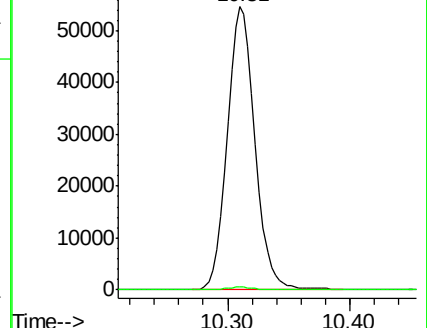
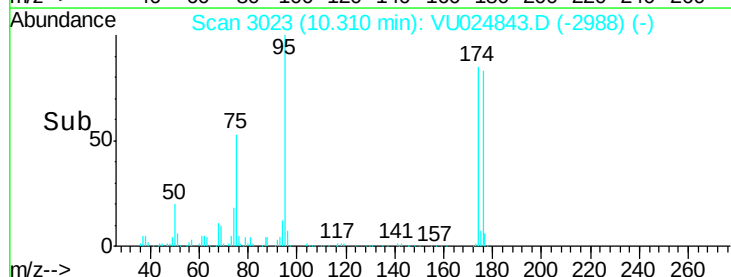
75 100

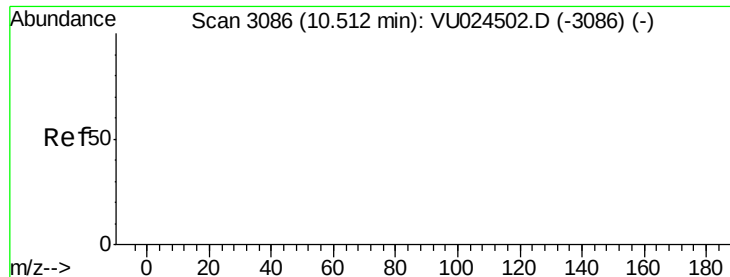
77 0.9 20.9 62.7#



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: 59.28 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

S32-0623DL

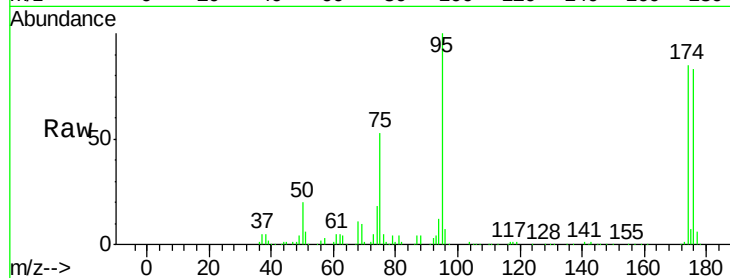
Tot Ion: 75 Resp: 86747

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

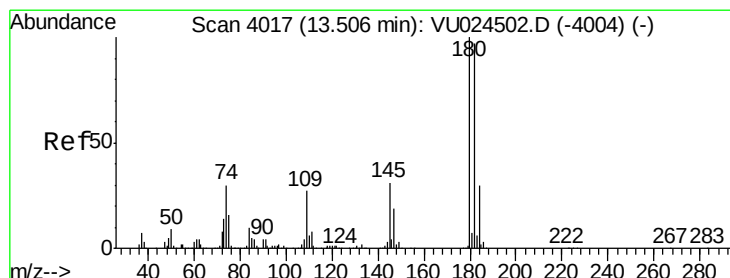
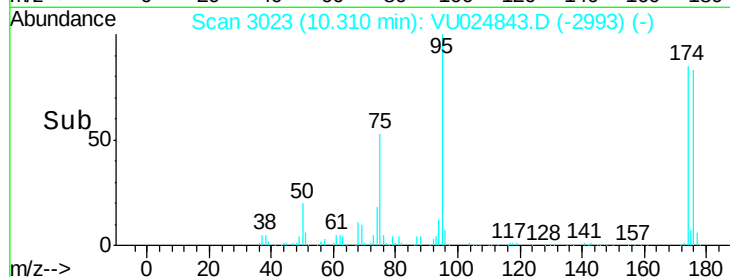
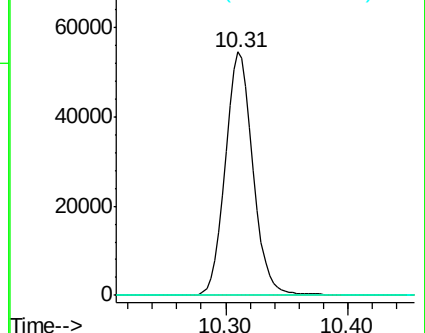
89 0.0 0.0 0.0



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) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.37 ug/l

RT: 13.51 min Scan# 4019

Delta R.T. 0.01 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

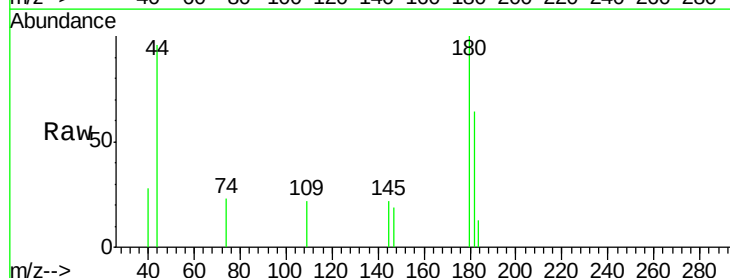
Tgt Ion:180 Resp: 1266

Ion Ratio Lower Upper

180 100

182 81.9 48.0 144.2

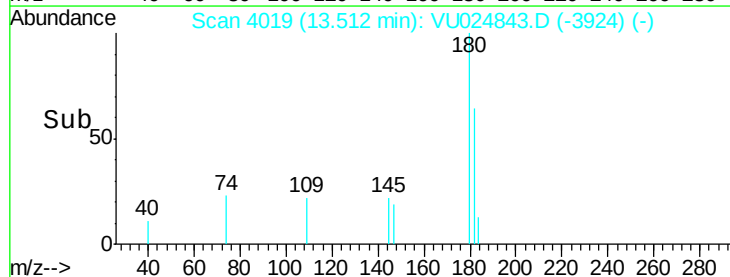
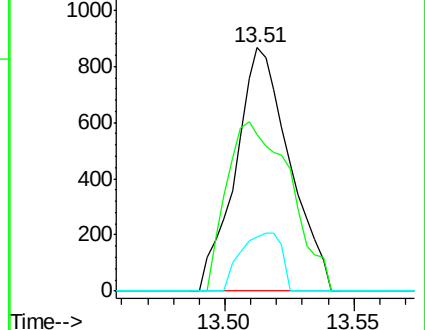
145 18.1 14.7 44.1

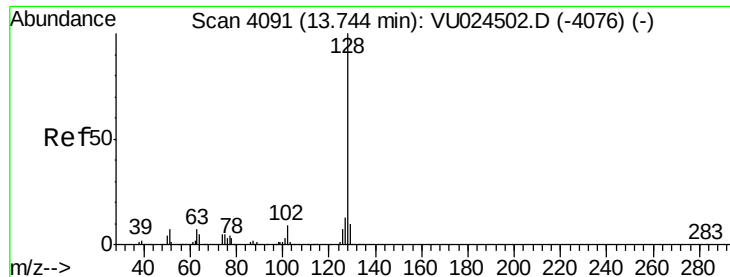


Abundance Ion 179.80 (179.50 to 180.50): VU024502.D (-4004) (-)

Ion 181.80 (181.50 to 182.50): VU024502.D (-4004) (-)

Ion 144.80 (144.50 to 145.50): VU024502.D (-4004) (-)





#95

Naphthalene

Concen: 1.32 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

Instrument :

MSVOA_U

ClientSampleId :

S32-0623DL

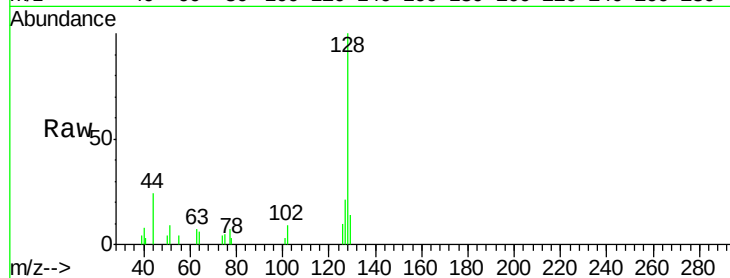
Tot Ion:128 Resp: 7343

Ion Ratio Lower Upper

128 100

127 12.5 10.6 16.0

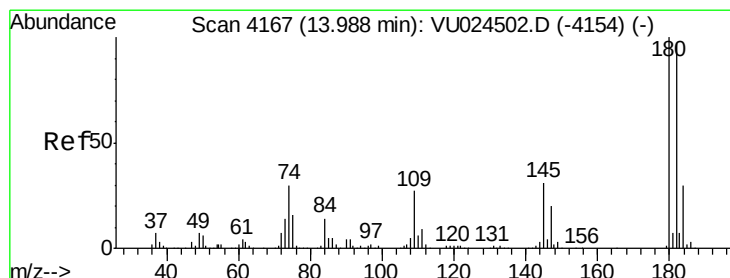
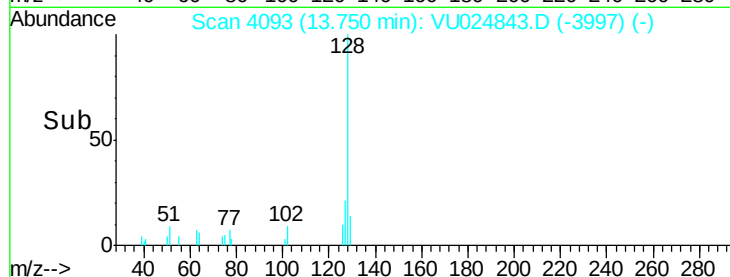
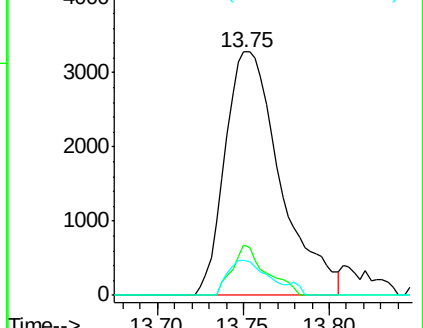
129 10.0 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.46 ug/l

RT: 14.00 min Scan# 4170

Delta R.T. 0.01 min

Lab File: VU024843.D

Acq: 22 Jun 2018 19:50

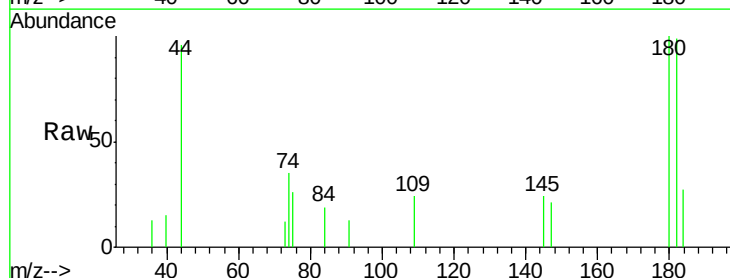
Tgt Ion:180 Resp: 1566

Ion Ratio Lower Upper

180 100

182 91.0 47.9 143.7

145 19.6 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

