

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024539.D
 Acq On : 14 Jun 2018 14:57
 Operator : MD/SY
 Sample : J3476-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:35:43 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	170695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	289709	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	281255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	164509	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	126358	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	
35) Dibromofluoromethane	4.89	113	116027	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	7.57	98	426748	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	10.31	95	167684	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	

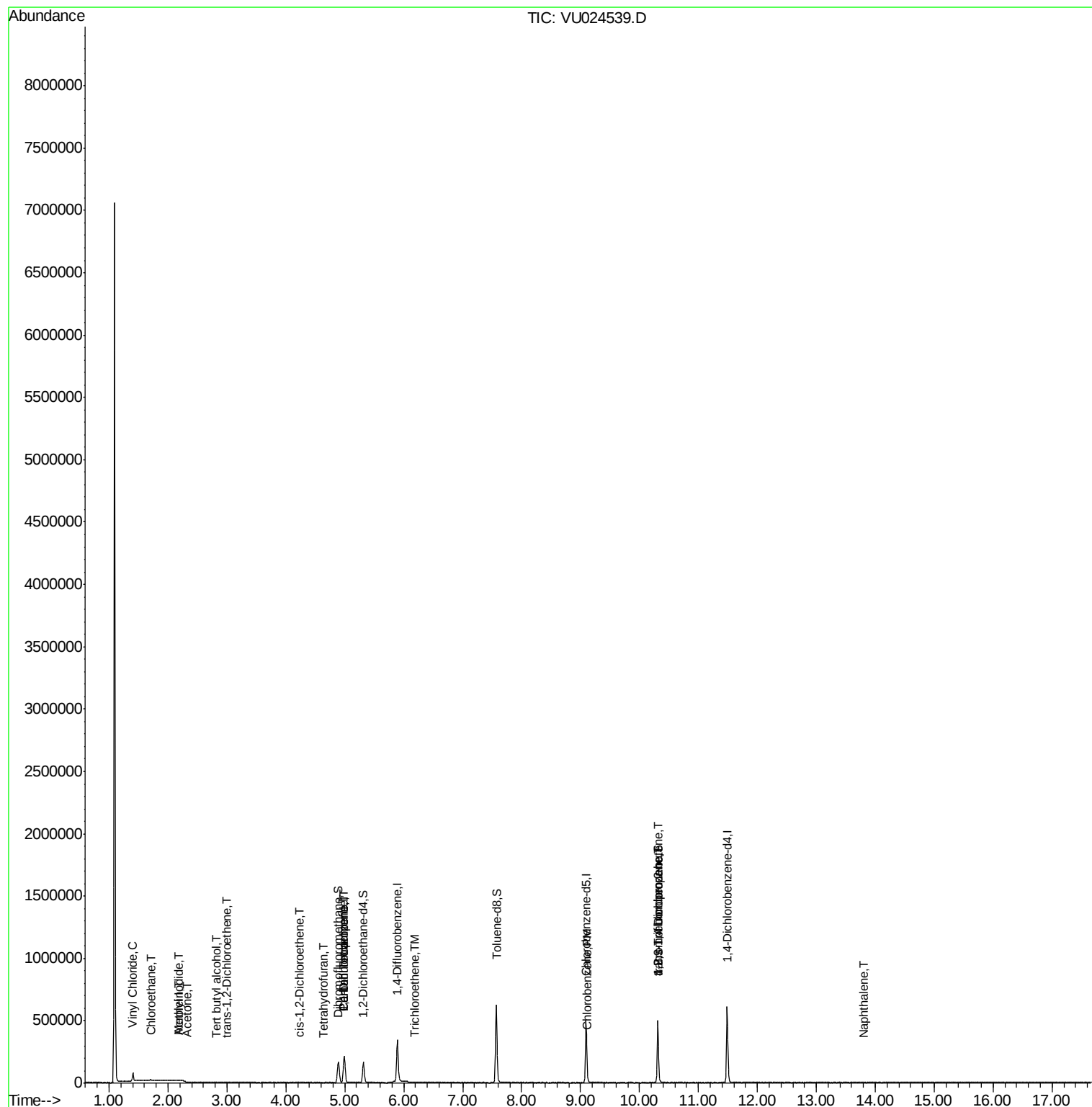
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	39205	17.416	ug/l	98
6) Chloroethane	1.70	64	2708	1.123	ug/l	93
8) Diethyl Ether	2.11	74	107	Below Cal	#	1
10) Methyl Iodide	2.19	142	22	5.299	ug/l #	1
11) Tert butyl alcohol	2.82	59	282	0.416	ug/l #	1
13) Acrolein	2.18	56	164	0.461	ug/l #	13
16) Acetone	2.32	43	1685	1.125	ug/l	90
21) trans-1,2-Dichloroethene	3.00	96	727	0.340	ug/l #	55
27) cis-1,2-Dichloroethene	4.24	96	3051	1.240	ug/l	78
29) Tetrahydrofuran	4.64	42	435	0.349	ug/l #	34
31) Cyclohexane	5.11	56	107	Below Cal		94
36) 1,1-Dichloropropene	4.99	75	12166	3.574	ug/l #	51
38) Carbon Tetrachloride	4.99	117	15947	4.260	ug/l #	17
44) Trichloroethene	6.20	130	1320	0.478	ug/l	80
65) Chlorobenzene	9.13	112	2392	0.333	ug/l	96
76) 1,2,3-Trichloropropane	10.31	75	83590	23.079	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	83590	53.415	ug/l #	100
95) Naphthalene	13.80	128	134	0.690	ug/l #	69

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

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QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

Instrument :

MSVOA_U

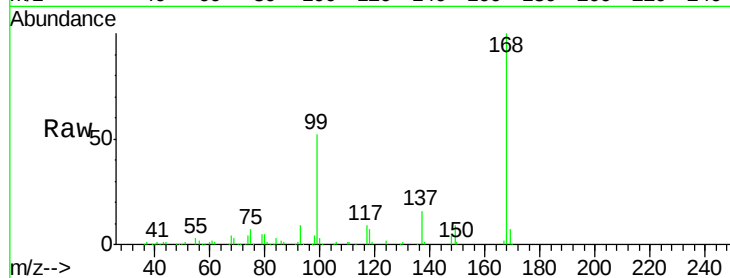
ClientSampleId :

Tot Ion:168 Resp: 170695

Ion Ratio Lower Upper

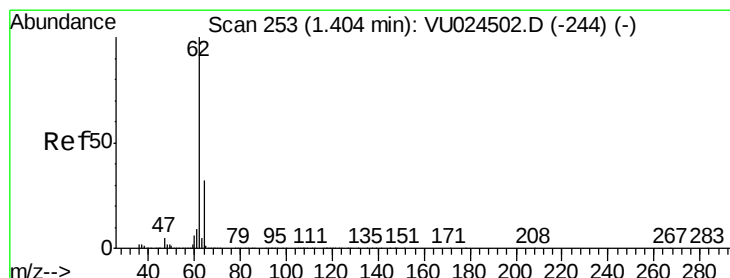
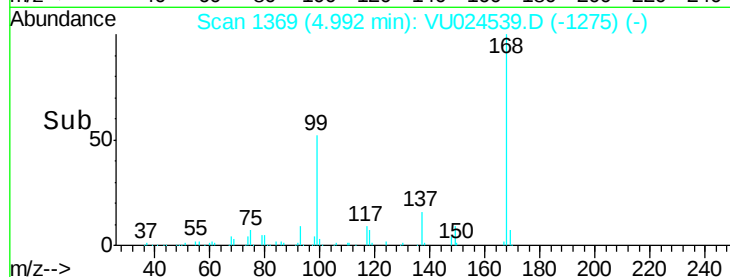
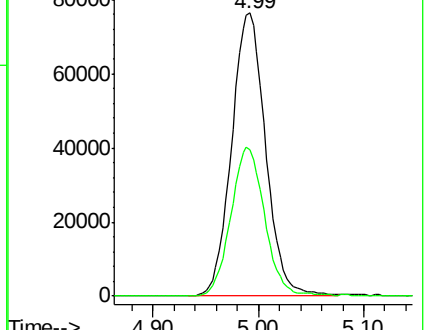
168 100

99 51.6 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) (-)



#4

Vinyl Chloride

Concen: 17.416 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024539.D

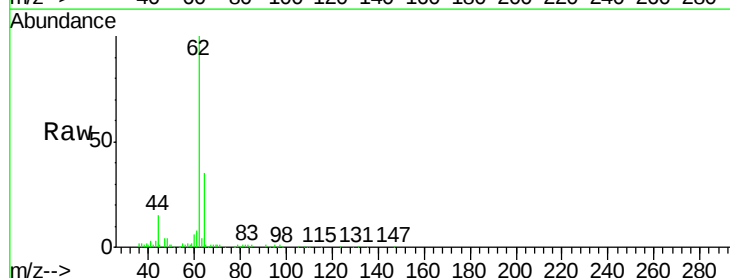
Acq: 14 Jun 2018 14:57

Tgt Ion: 62 Resp: 39205

Ion Ratio Lower Upper

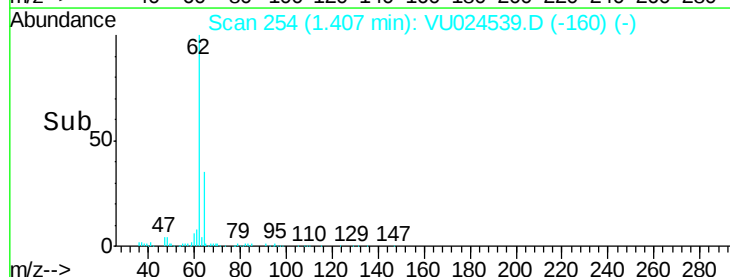
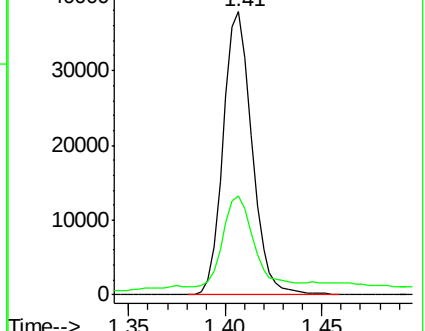
62 100

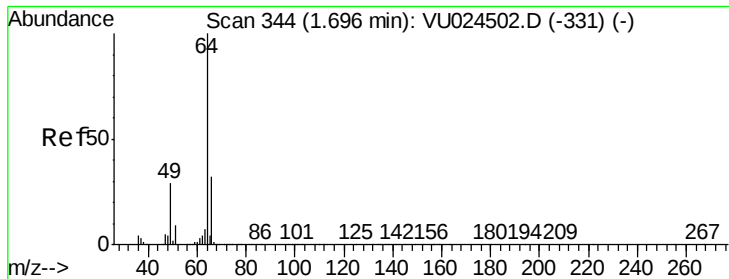
64 32.3 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU024502.D (-244) (-)





#6

Chloroethane

Concen: 1.123 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

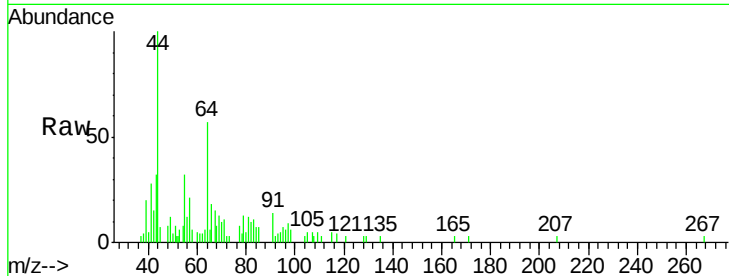
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 64 Resp: 2708

Ion Ratio Lower Upper

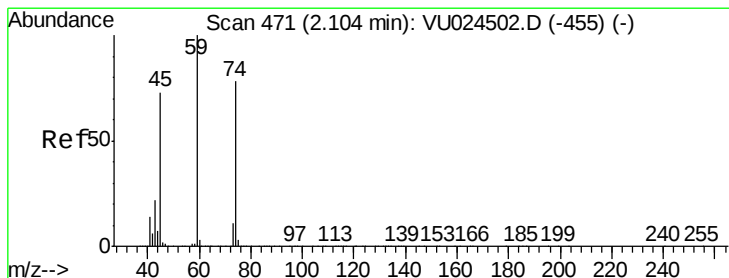
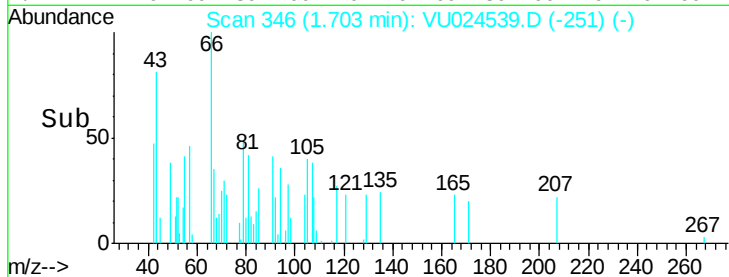
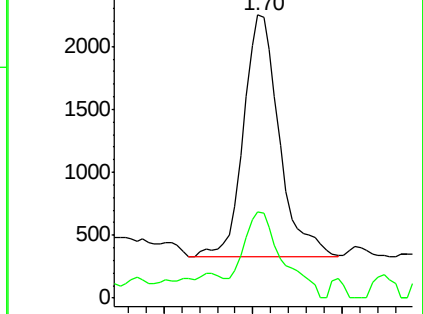
64 100

66 28.0 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU024539.D

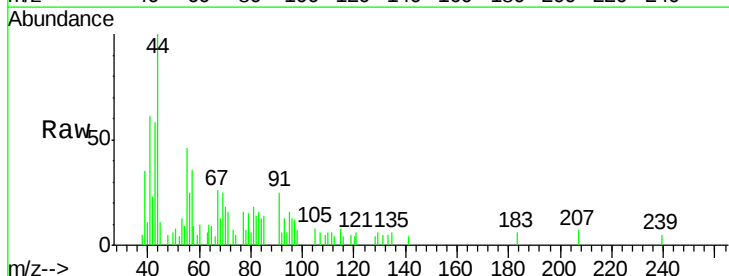
Acq: 14 Jun 2018 14:57

Tgt Ion: 74 Resp: 107

Ion Ratio Lower Upper

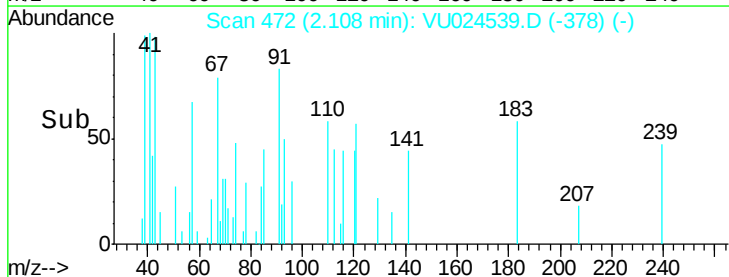
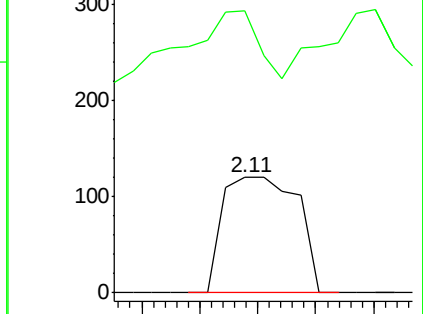
74 100

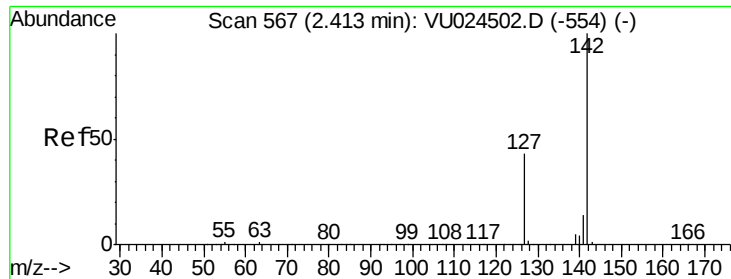
45 0.0 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

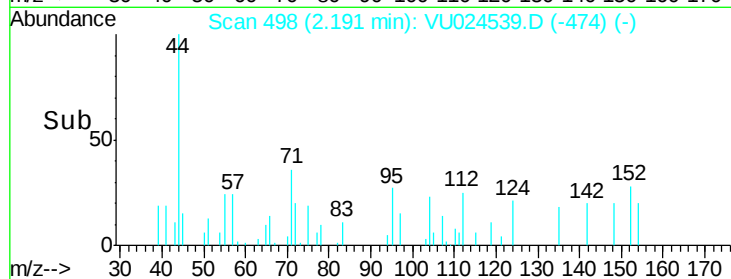
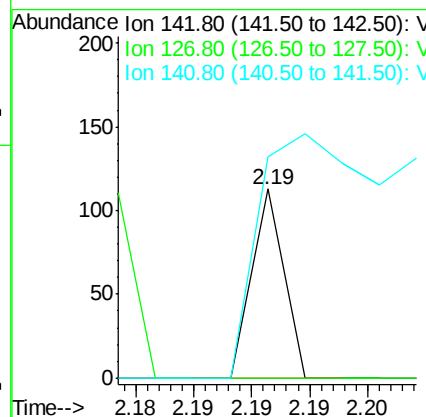
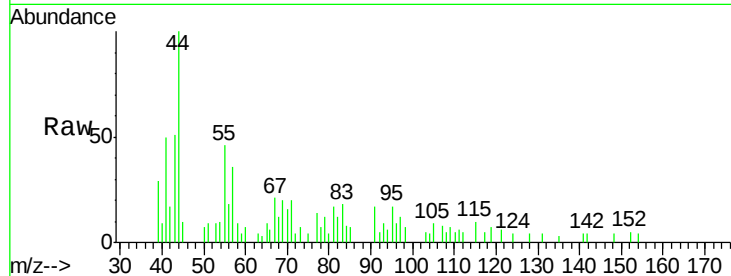




#10
Methvl Iodide
Concen: 5.299 ug/l
RT: 2.19 min Scan# 498
Delta R.T. -0.22 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

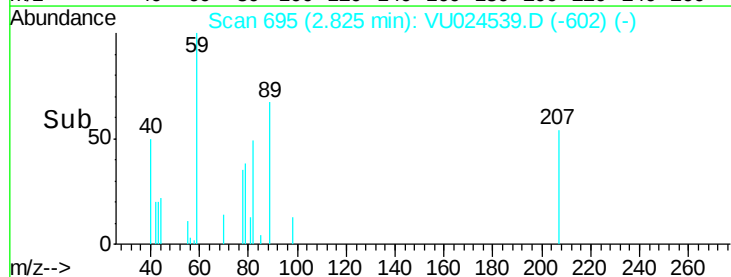
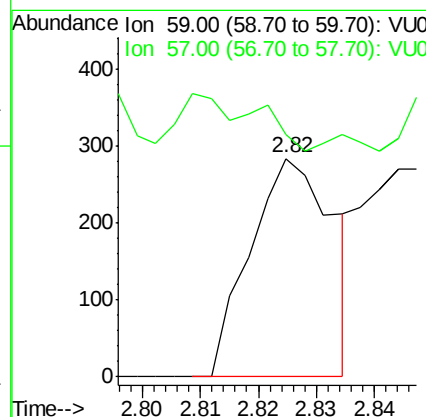
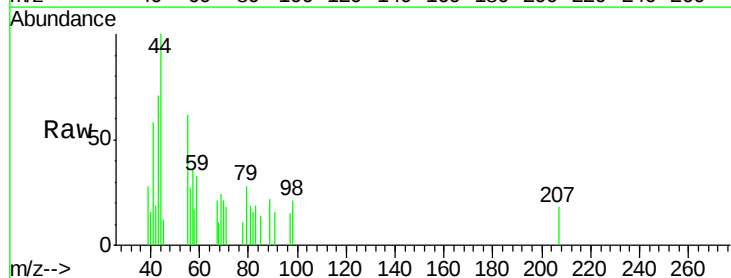
Instrument :
MSVOA_U
ClientSampleId :

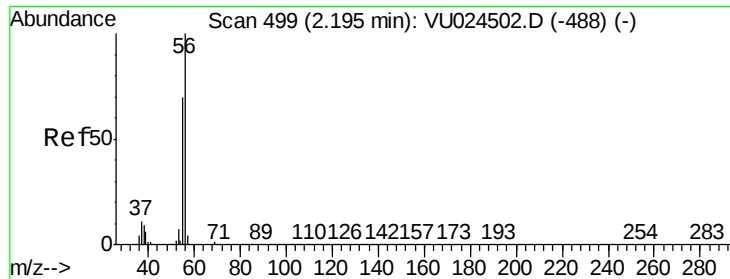
Tot Ion	Ratio	Lower	Upper
142	100		
127	190.9	35.6	53.4#
141	454.5	11.7	17.5#



#11
Tert butyl alcohol
Concen: 0.416 ug/l
RT: 2.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
59	100		
57	52.8	8.5	12.7#





#13

Acrolein

Concen: 0.461 ug/l

RT: 2.18 min Scan# 495

Delta R.T. -0.01 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

Instrument :

MSVOA_U

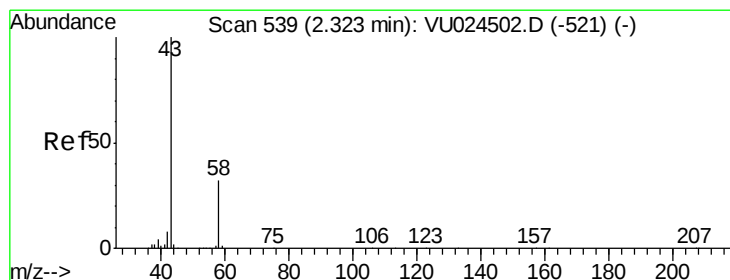
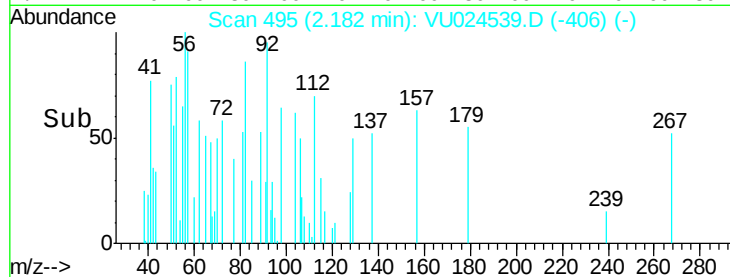
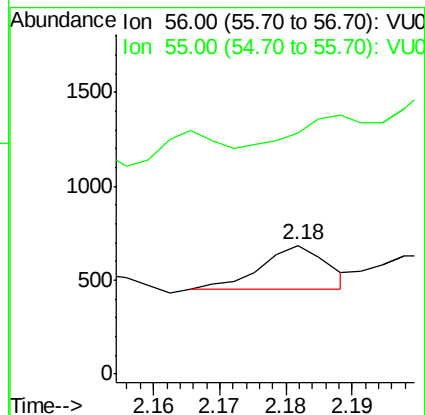
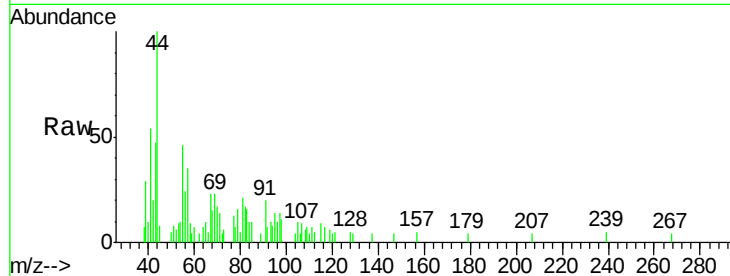
ClientSampleId :

Tot Ion: 56 Resp: 164

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 1.125 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024539.D

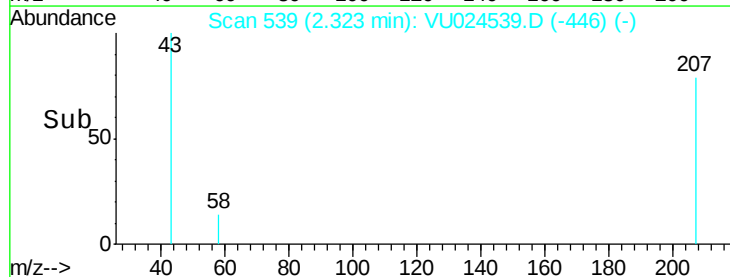
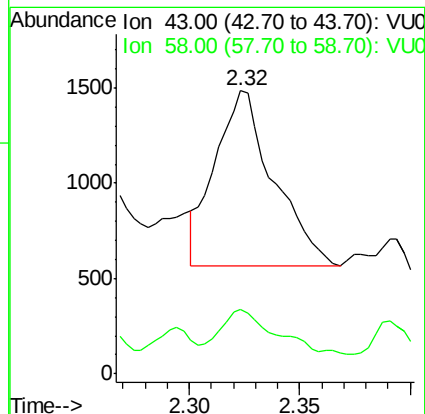
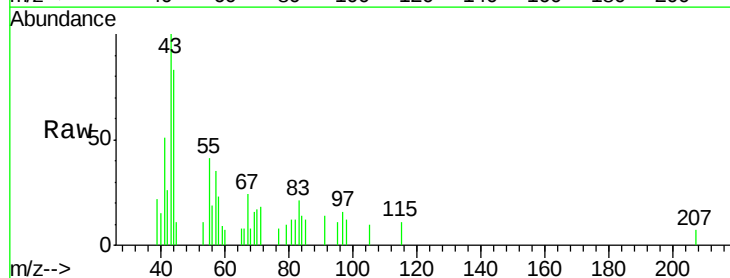
Acq: 14 Jun 2018 14:57

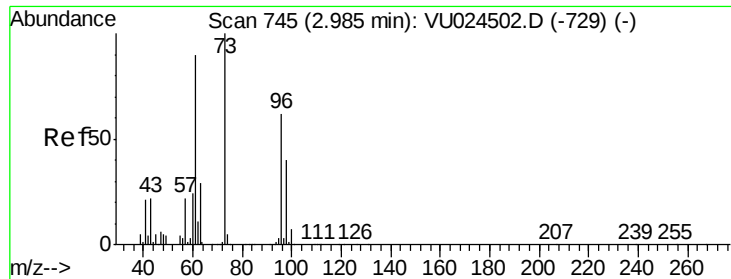
Tgt Ion: 43 Resp: 1685

Ion Ratio Lower Upper

43 100

58 24.9 24.4 36.6





#21

trans-1,2-Dichloroethene

Concen: 0.340 ug/l

RT: 3.00 min Scan# 749

Delta R.T. 0.01 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

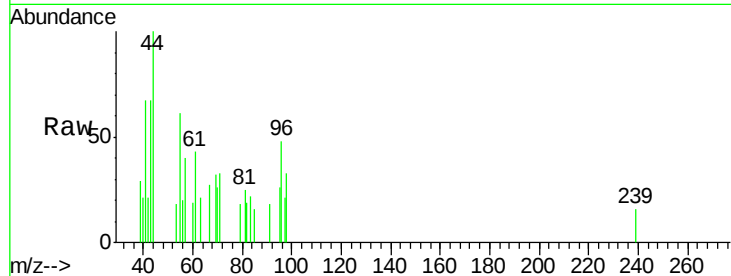
Tot Ion: 96 Resp: 727

Ion Ratio Lower Upper

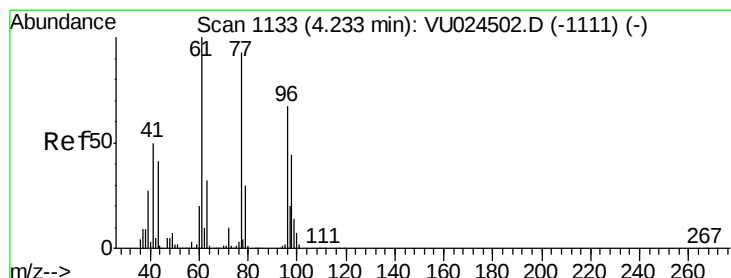
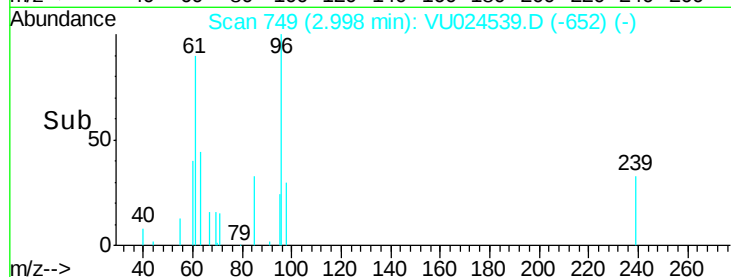
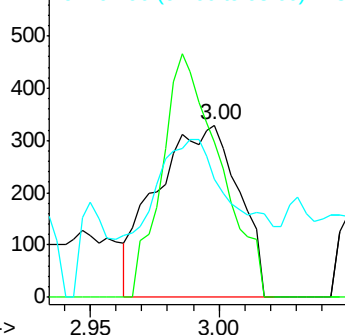
96 100

61 90.3 119.4 179.0#

98 32.8 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



#27

cis-1,2-Dichloroethene

Concen: 1.240 ug/l

RT: 4.24 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

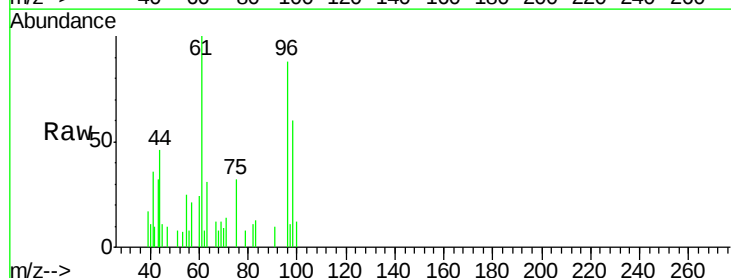
Tgt Ion: 96 Resp: 3051

Ion Ratio Lower Upper

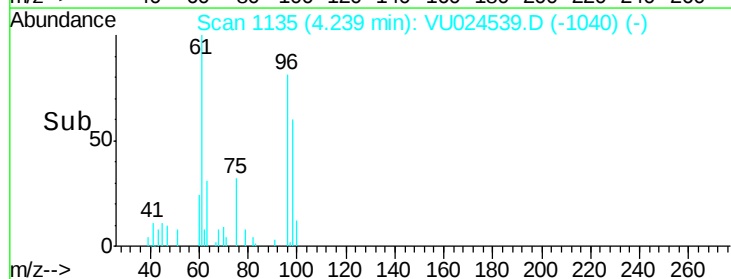
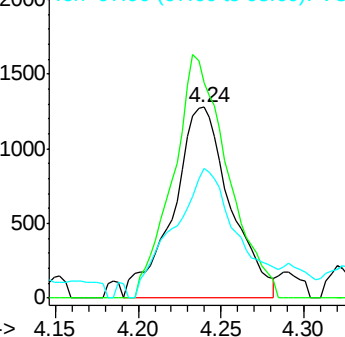
96 100

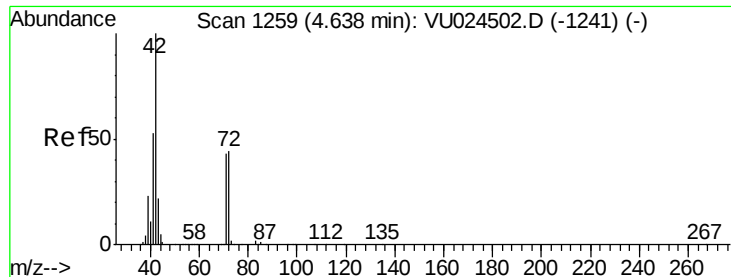
61 122.0 0.0 306.6

98 76.7 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

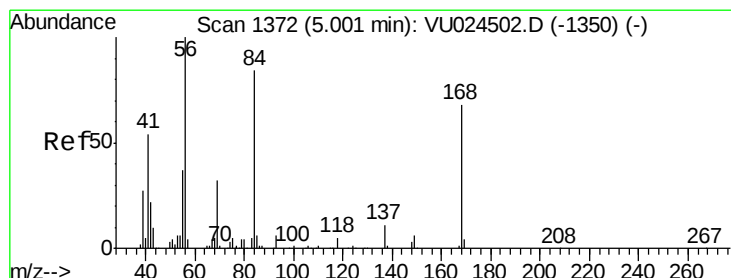
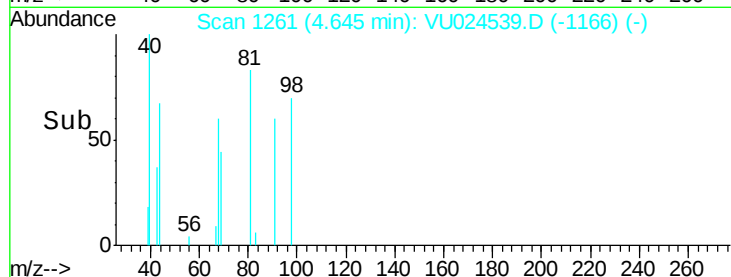
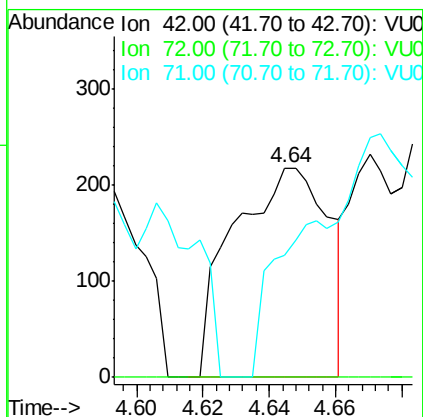
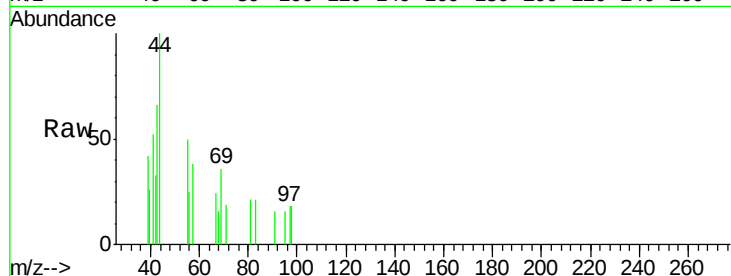




#29
Tetrahydrofuran
Concen: 0.349 ug/l
RT: 4.64 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

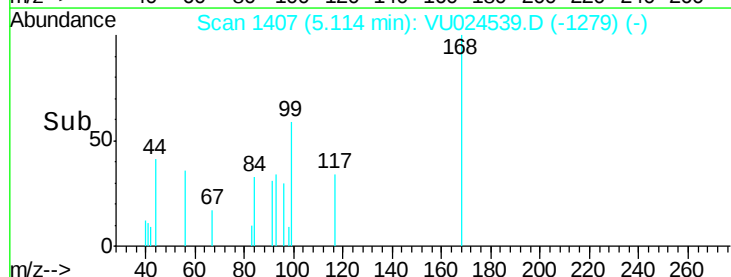
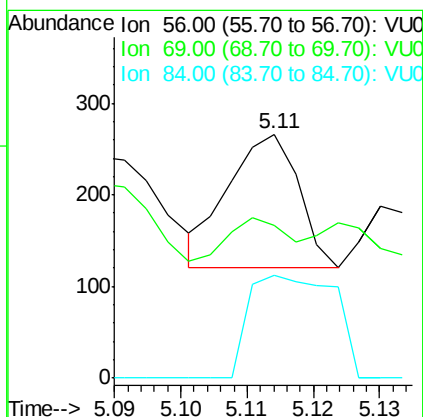
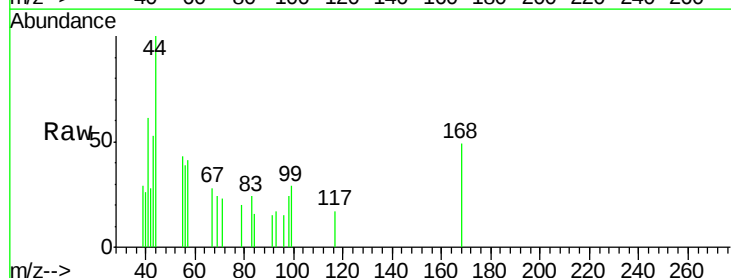
Instrument :
MSVOA_U
ClientSampled :

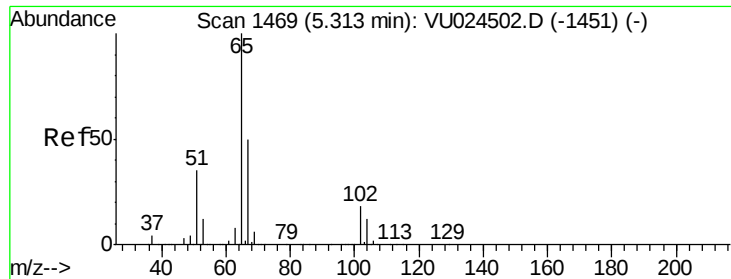
Tot Ion: 42 Resp: 435
Ion Ratio Lower Upper
42 100
72 0.0 34.5 51.7#
71 0.0 32.2 48.4#



#31
Cyclohexane
Concen: Below Cal
RT: 5.11 min Scan# 1407
Delta R.T. 0.11 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

Tgt Ion: 56 Resp: 107
Ion Ratio Lower Upper
56 100
69 26.9 24.8 37.2
84 77.2 65.2 97.8

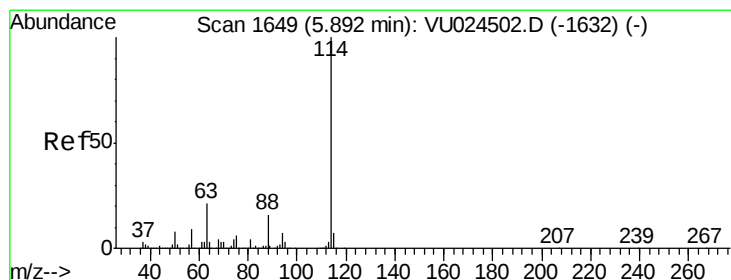
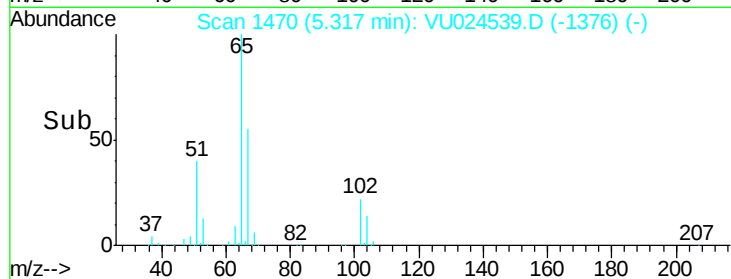
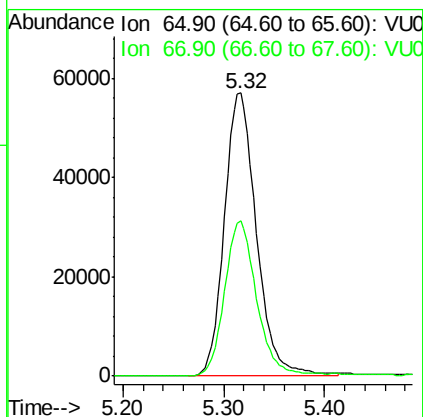
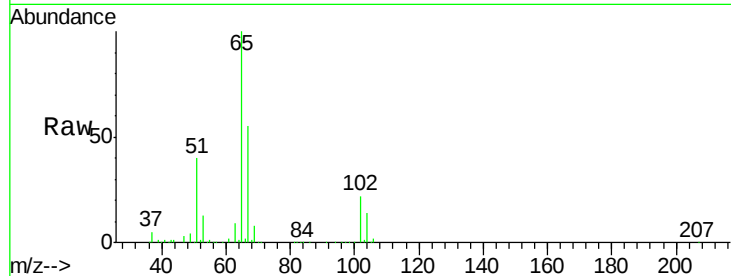




#33
 1,2-Dichloroethane-d4
 Concen: 45.344 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024539.D
 Acq: 14 Jun 2018 14:57

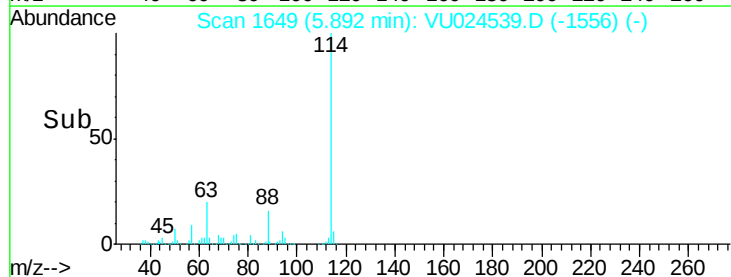
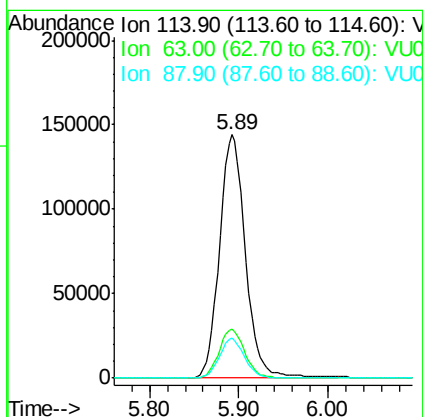
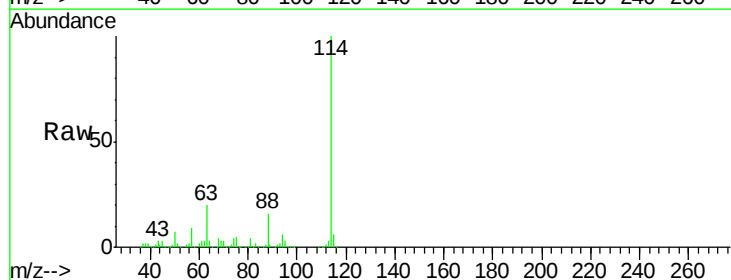
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 65 Resp: 126358
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024539.D
 Acq: 14 Jun 2018 14:57

Tgt Ion: 114 Resp: 289709
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 45.4
 88 16.3 0.0 31.0

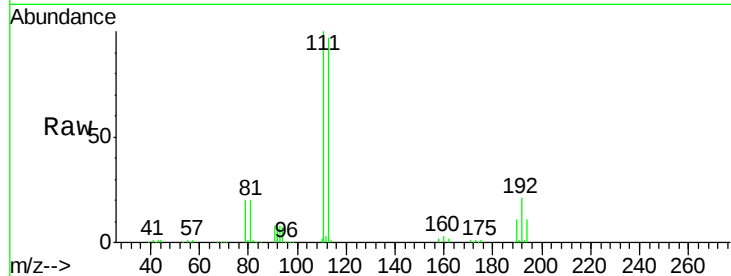




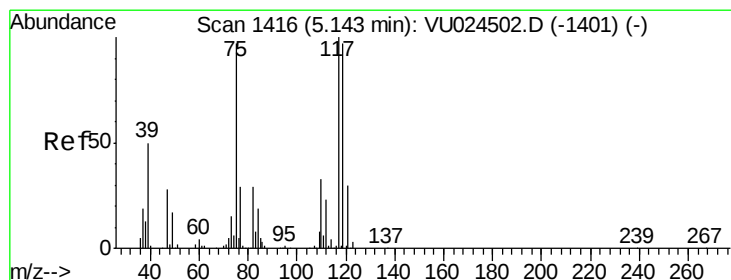
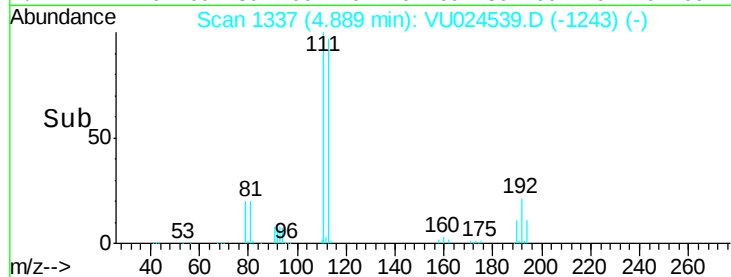
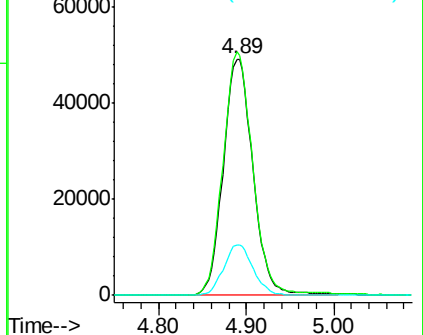
#35
 Dibromofluoromethane
 Concen: 48.257 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024539.D
 Acq: 14 Jun 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.4
192	21.2	16.2	24.4

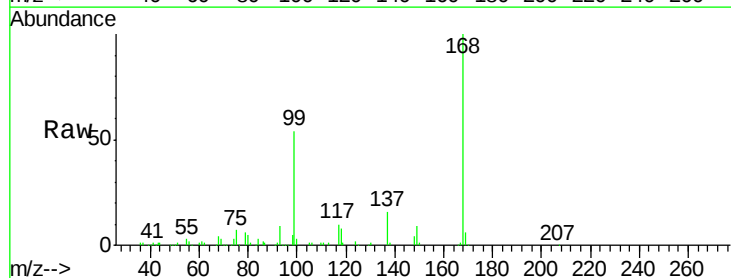


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

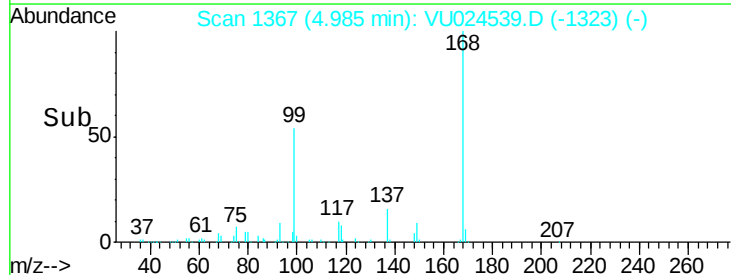
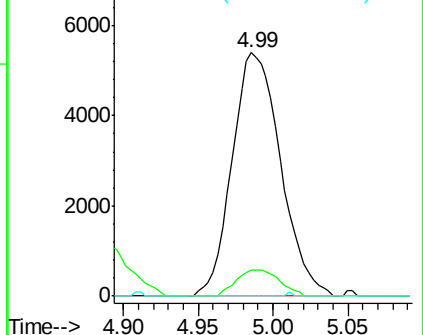


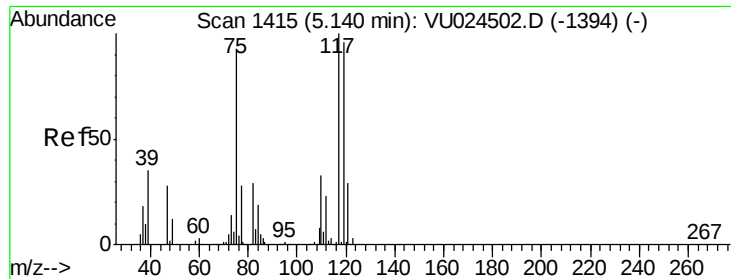
#36
 1,1-Dichloropropene
 Concen: 3.574 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024539.D
 Acq: 14 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	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): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.260 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

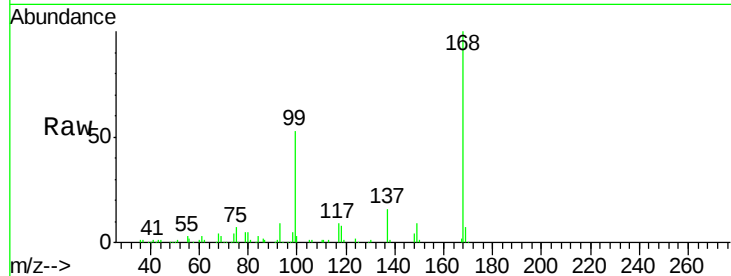
Tot Ion:117 Resp: 15947

Ion Ratio Lower Upper

117 100

119 6.1 76.1 114.1#

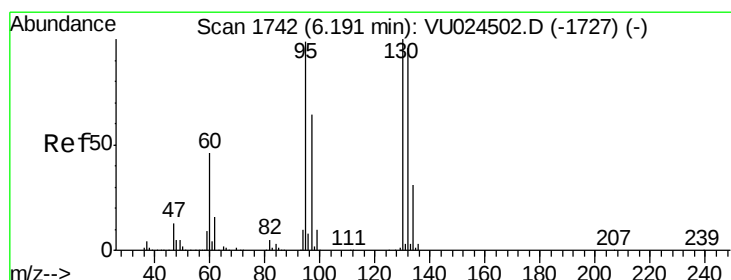
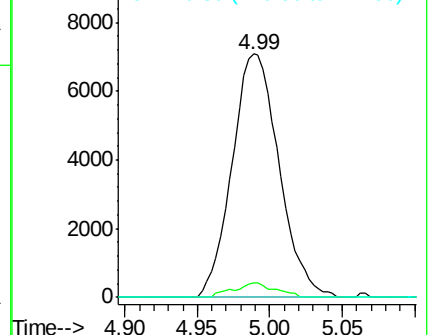
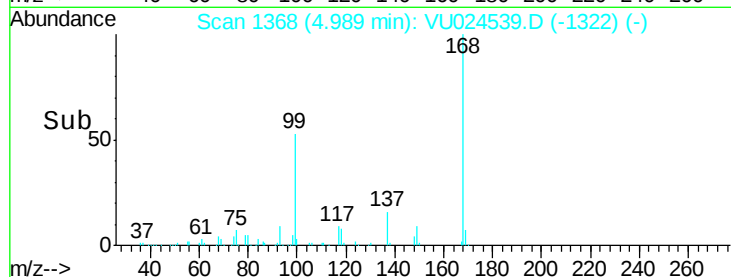
121 0.0 23.7 35.5#



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



#44

Trichloroethene

Concen: 0.478 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU024539.D

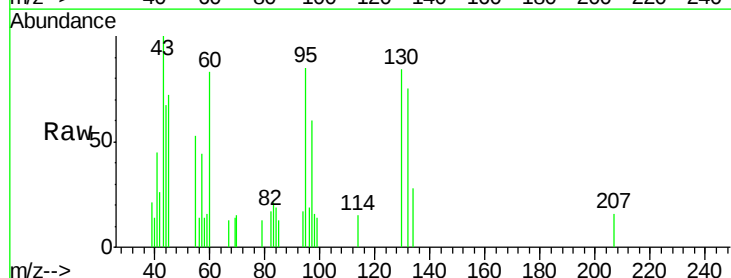
Acq: 14 Jun 2018 14:57

Tgt Ion:130 Resp: 1320

Ion Ratio Lower Upper

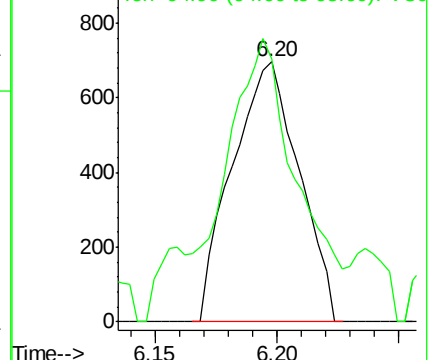
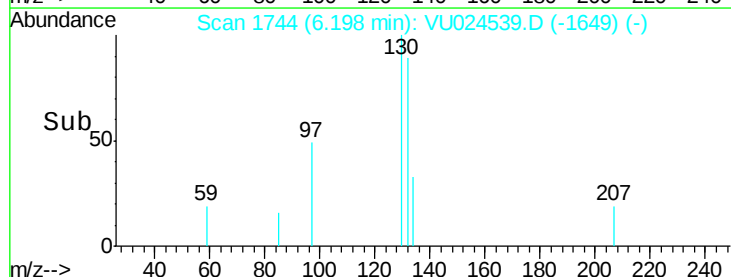
130 100

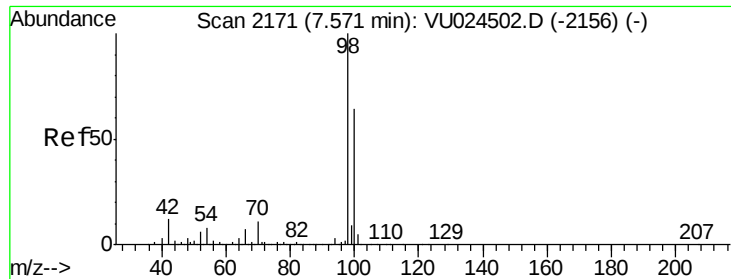
95 81.2 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

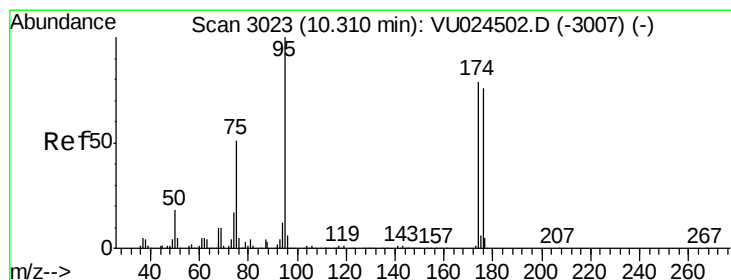
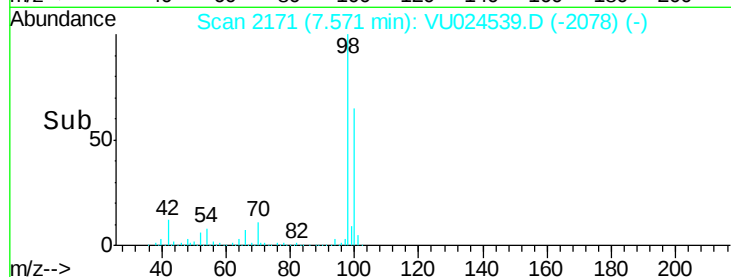
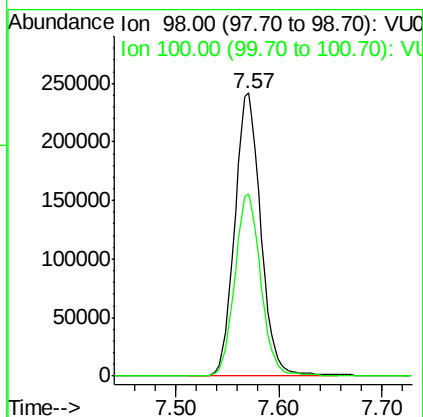
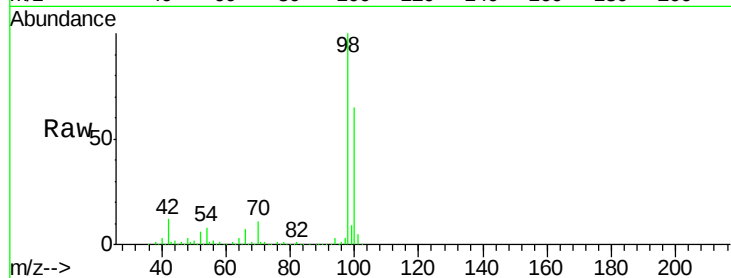




#50
Toluene-d8
Concen: 48.659 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

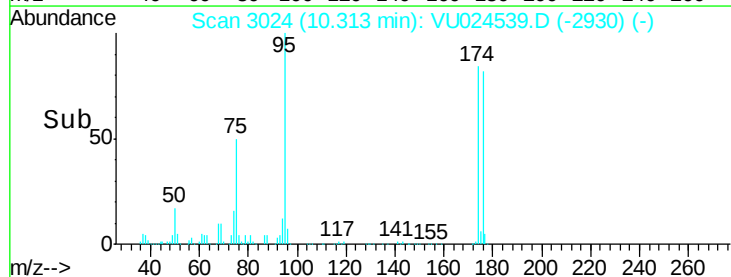
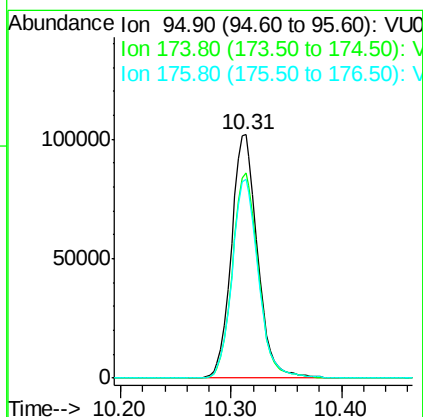
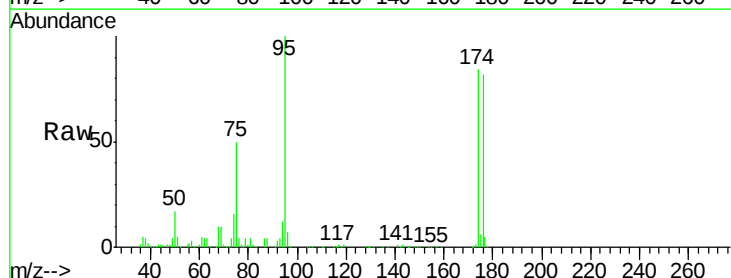
Instrument :
MSVOA_U
ClientSampleId :

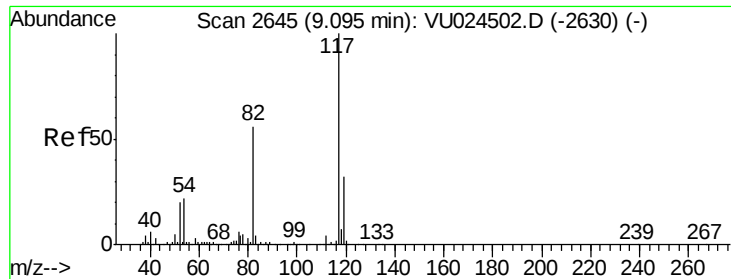
Tot Ion: 98 Resp: 426748
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 48.156 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

Tgt Ion: 95 Resp: 167684
Ion Ratio Lower Upper
95 100
174 83.9 0.0 165.8
176 81.9 0.0 159.4

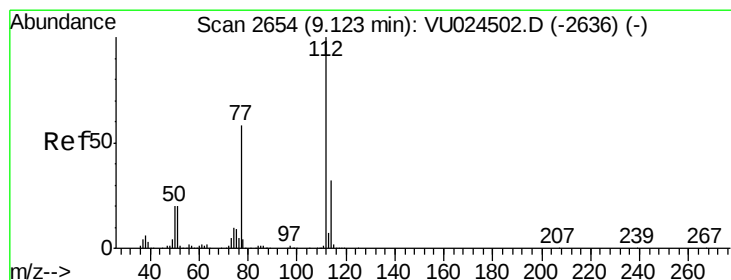
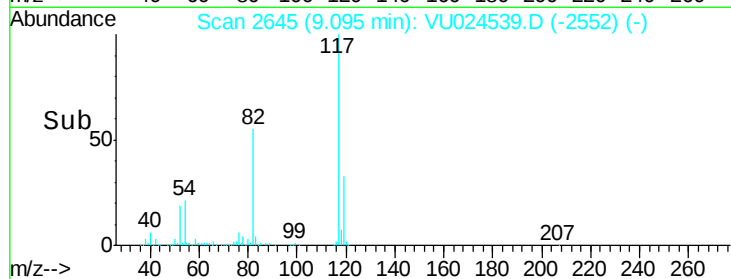
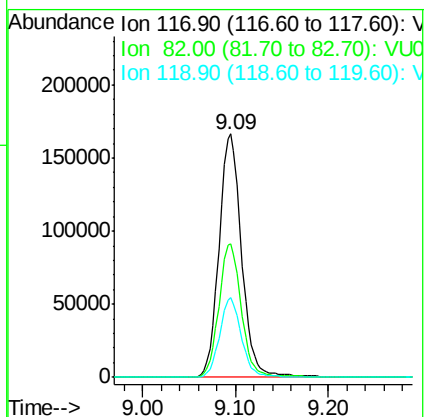
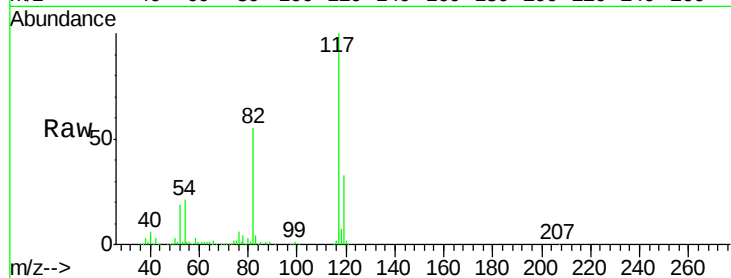




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

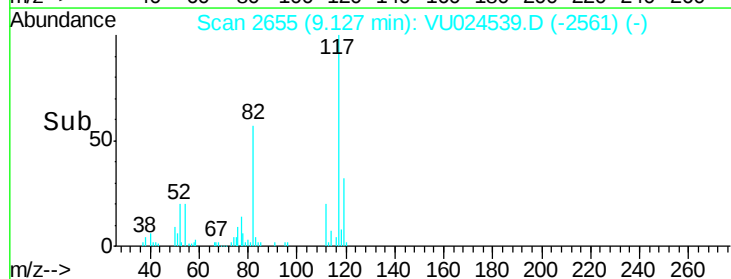
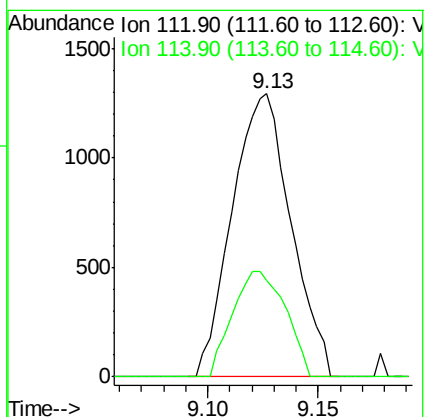
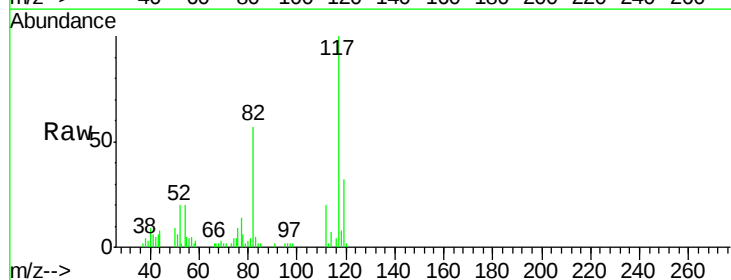
Instrument :
MSVOA_U
ClientSampled :

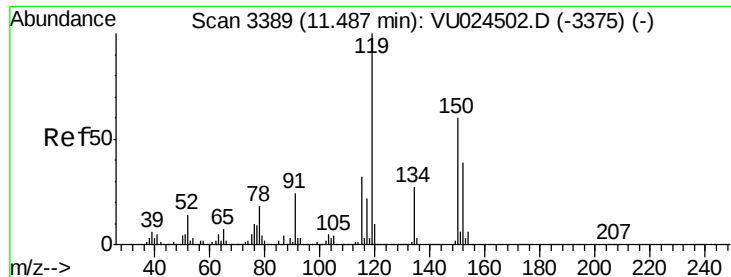
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.8	44.3	66.5
119	32.8	25.4	38.2



#65
Chlorobenzene
Concen: 0.333 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU024539.D
Acq: 14 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.0	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

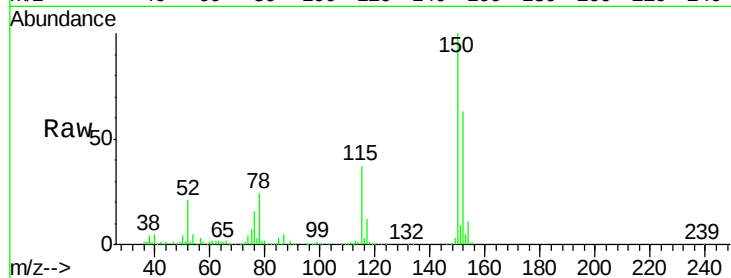
Tot Ion:152 Resp: 164509

Ion Ratio Lower Upper

152 100

115 57.8 43.0 129.0

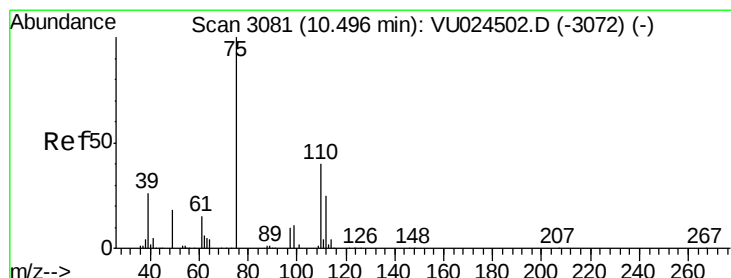
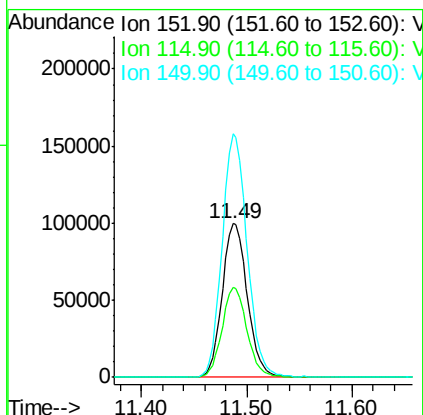
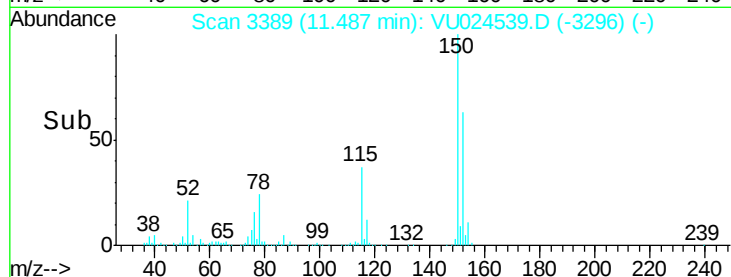
150 157.1 0.0 354.0



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: 23.079 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU024539.D

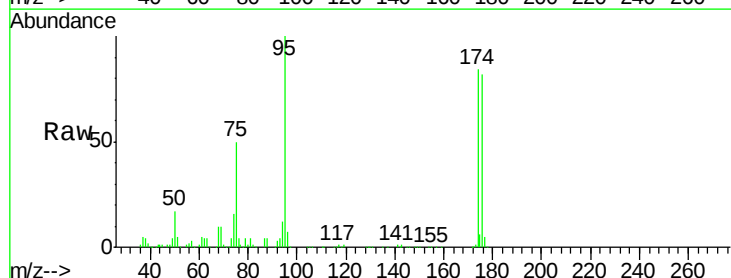
Acq: 14 Jun 2018 14:57

Tgt Ion: 75 Resp: 83590

Ion Ratio Lower Upper

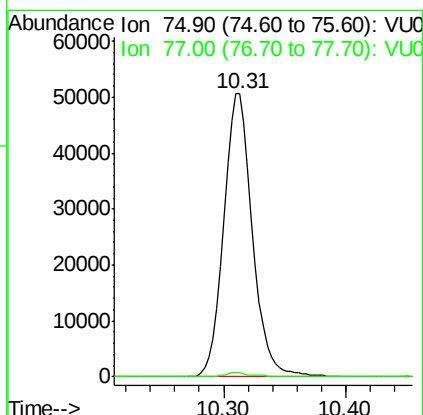
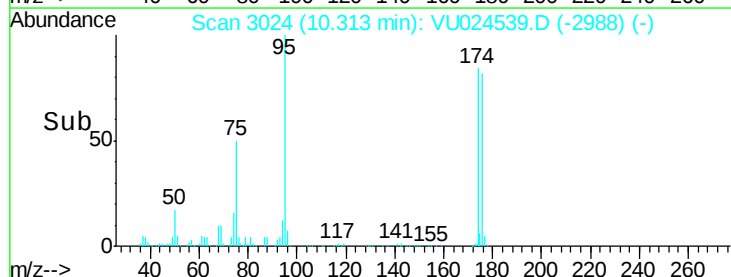
75 100

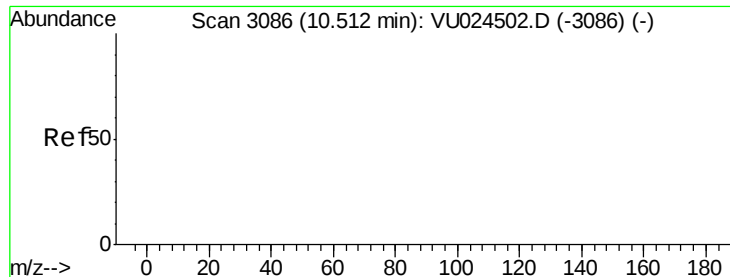
77 1.4 20.9 62.7#



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: 53.415 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.20 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

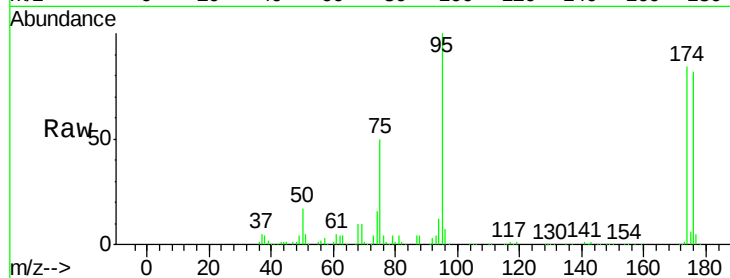
Tot Ion: 75 Resp: 83590

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

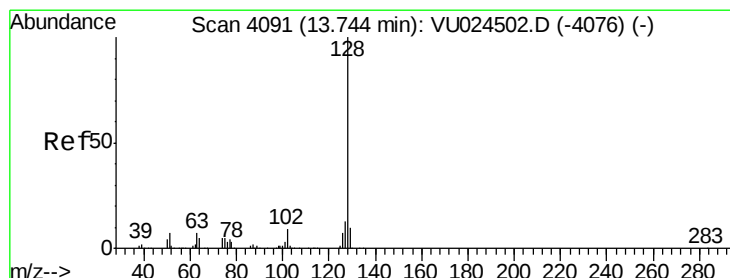
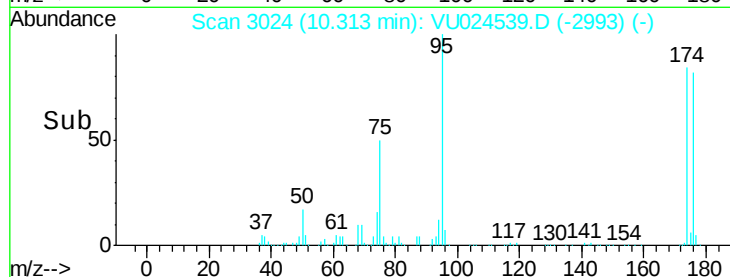
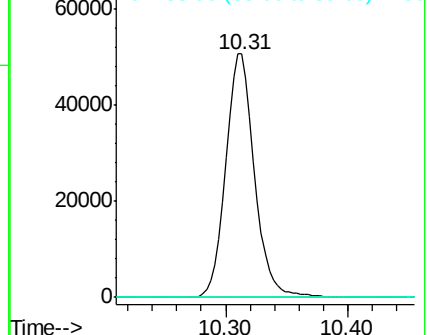
89 0.0 0.0 0.0



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: 0.690 ug/l

RT: 13.80 min Scan# 4107

Delta R.T. 0.05 min

Lab File: VU024539.D

Acq: 14 Jun 2018 14:57

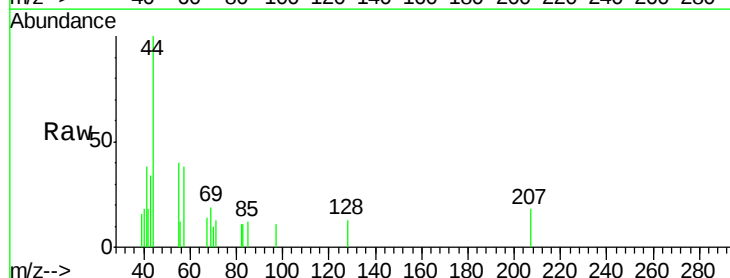
Tgt Ion:128 Resp: 134

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) (-)

