

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024846.D
 Acq On : 22 Jun 2018 21:03
 Operator : MD/SY
 Sample : J3517-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-ER-2018-2

Quant Time: Jun 23 02:16:07 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	199787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	306709	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	283614	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	153657	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	146772	45.00	ug/l	0.00
Spiked Amount			Recovery	=	90.00%	
35) Dibromofluoromethane	4.89	113	118652	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	7.57	98	439743	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
62) 4-Bromofluorobenzene	10.31	95	162896	44.19	ug/l	0.00
Spiked Amount			Recovery	=	88.38%	

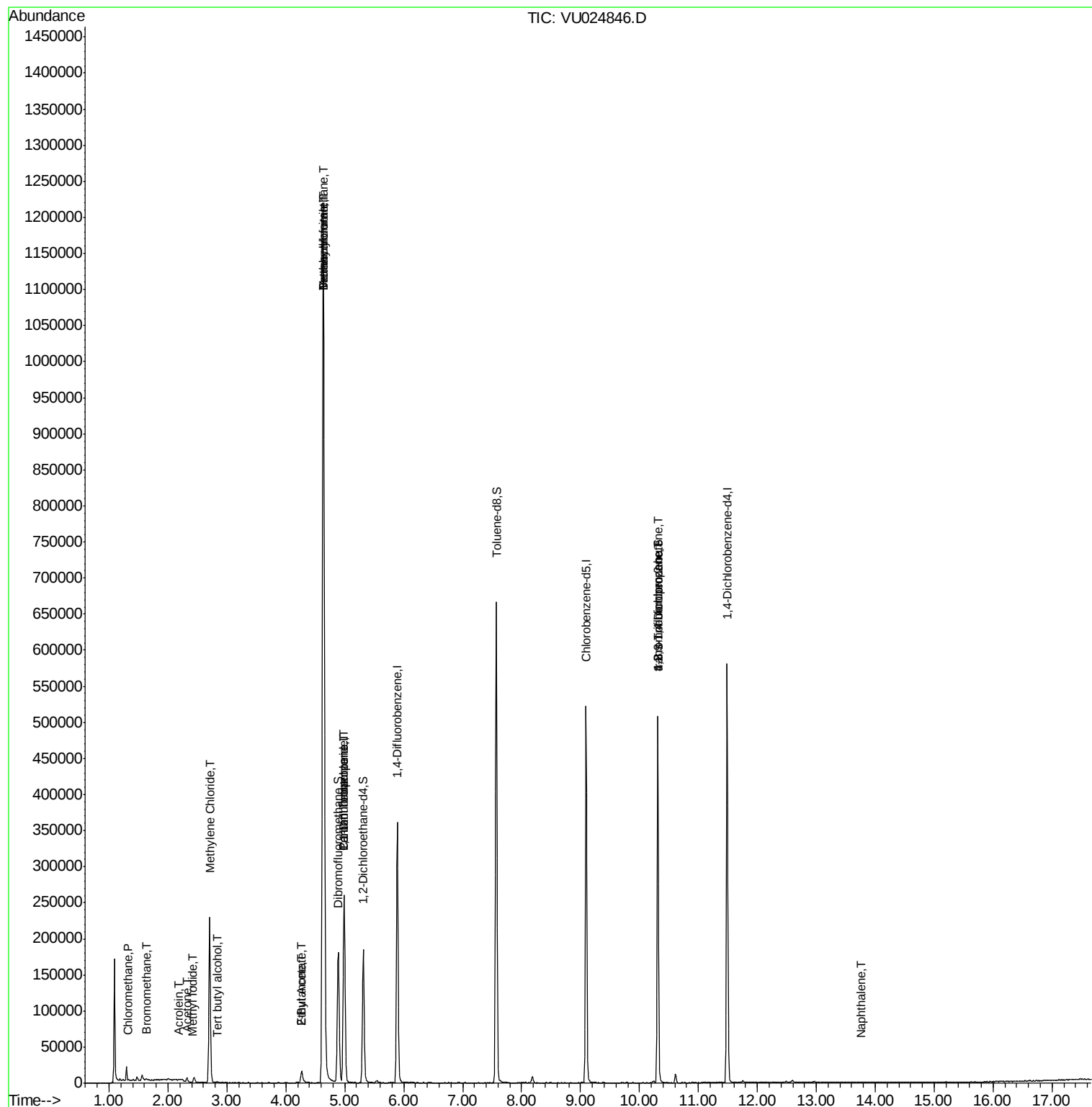
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	944	0.37	ug/l	89
5) Bromomethane	1.64	94	522	0.41	ug/l #	64
6) Chloroethane	1.61	64	20	Below Cal	#	43
10) Methyl Iodide	2.41	142	266	5.40	ug/l #	60
11) Tert butyl alcohol	2.82	59	180	0.23	ug/l #	72
13) Acrolein	2.20	56	369	0.89	ug/l #	75
16) Acetone	2.32	43	6734	3.84	ug/l	98
20) Methylene Chloride	2.71	84	101926	37.07	ug/l	96
25) 2-Butanone	4.27	43	27241	11.57	ug/l	98
28) Bromochloromethane	4.63	49	1687	0.80	ug/l #	16
29) Tetrahydrofuran	4.63	42	905438	621.14	ug/l	98
31) Cyclohexane	4.99	56	3986	Below Cal	#	21
36) 1,1-Dichloropropene	4.99	75	14337	3.98	ug/l #	51
37) Ethyl Acetate	4.27	43	27241	6.93	ug/l #	70
38) Carbon Tetrachloride	4.99	117	19384	4.89	ug/l #	17
41) Methacrylonitrile	4.63	41	513805	242.60	ug/l #	47
76) 1,2,3-Trichloropropane	10.31	75	84884	25.09	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	84884	58.07	ug/l #	100
95) Naphthalene	13.75	128	314	0.71	ug/l #	79

(#) = 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: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

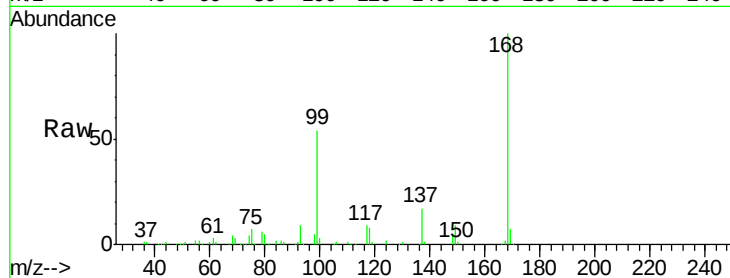
S39-ER-2018-2

Tot Ion:168 Resp: 199787

Ion Ratio Lower Upper

168 100

99 53.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024846.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024846.D (-1275) (-)

4.99

80000

60000

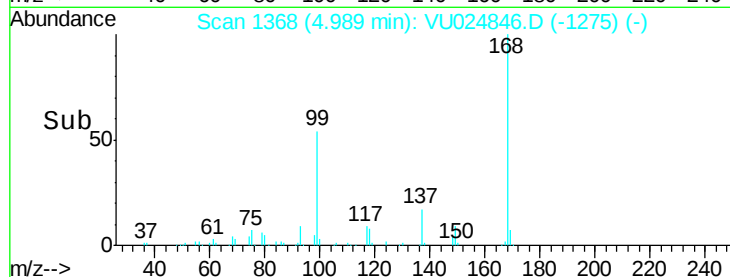
40000

20000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: 0.37 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024846.D

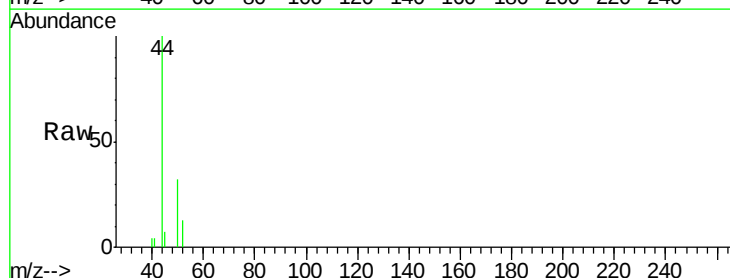
Acq: 22 Jun 2018 21:03

Tgt Ion: 50 Resp: 944

Ion Ratio Lower Upper

50 100

52 39.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024846.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024846.D (-137) (-)

1.33

1000

800

600

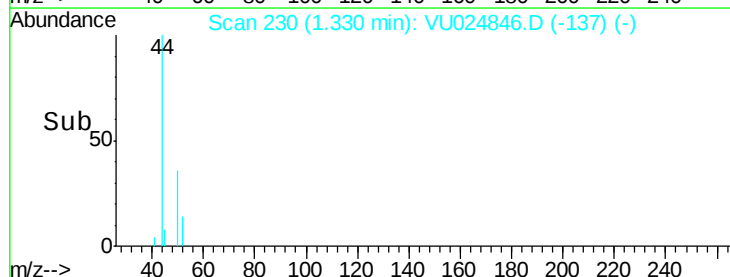
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: 0.41 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

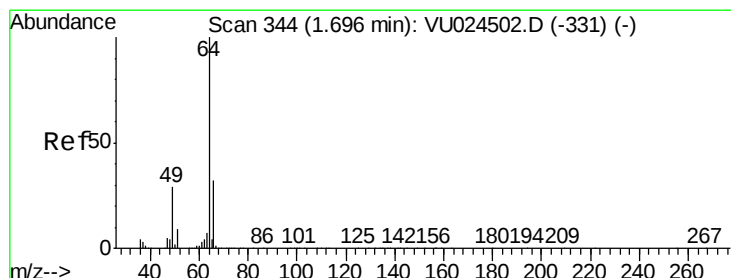
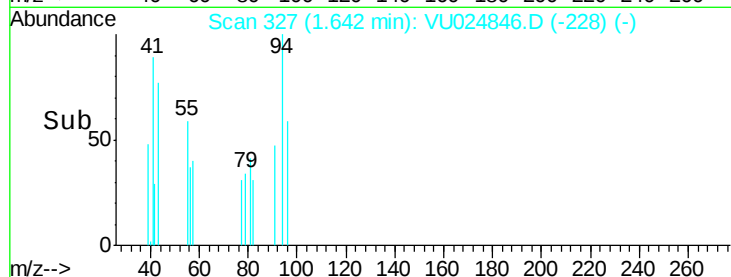
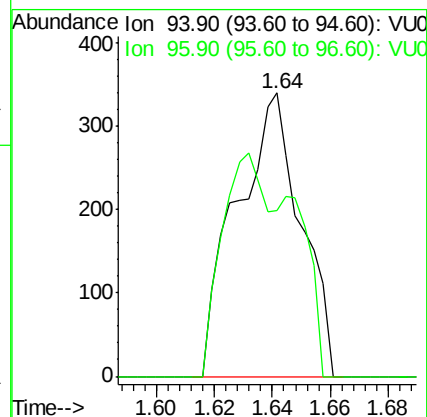
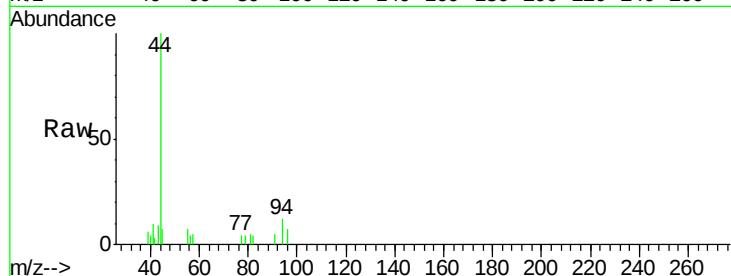
S39-ER-2018-2

Tot Ion: 94 Resp: 522

Ion Ratio Lower Upper

94 100

96 58.7 74.5 111.7#



#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 316

Delta R.T. -0.09 min

Lab File: VU024846.D

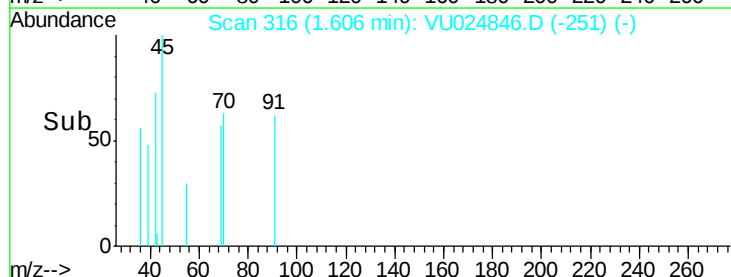
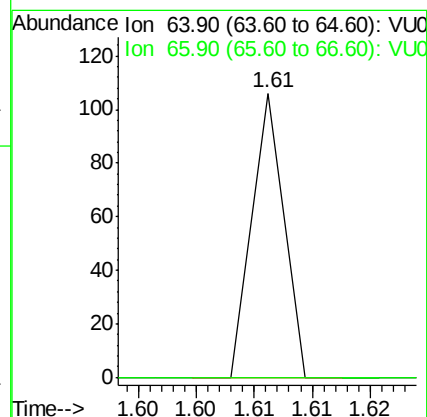
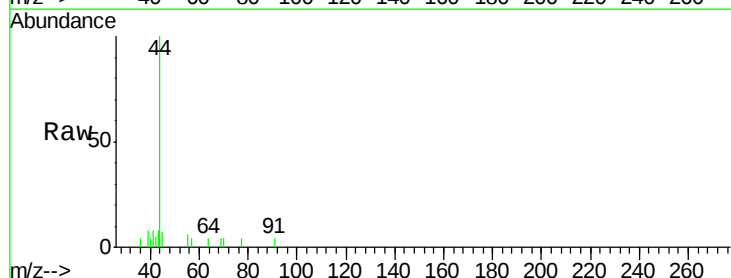
Acq: 22 Jun 2018 21:03

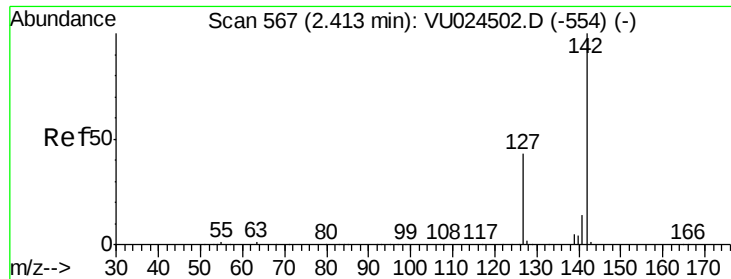
Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

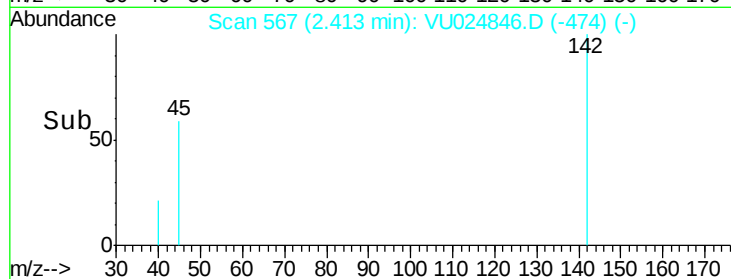
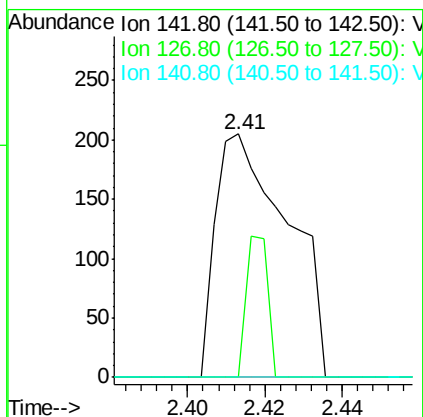
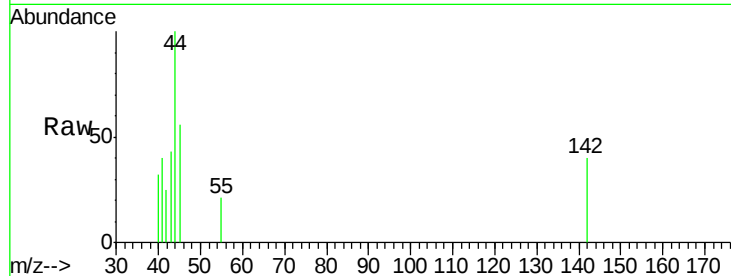




#10
Methvl Iodide
Concen: 5.40 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

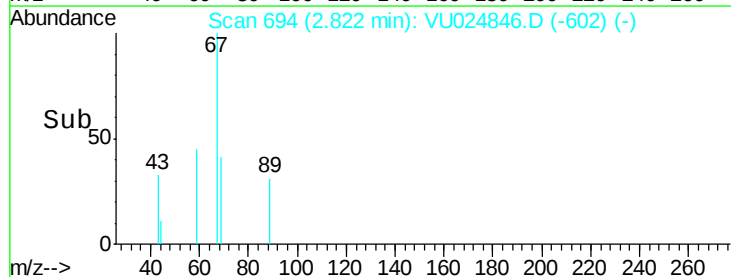
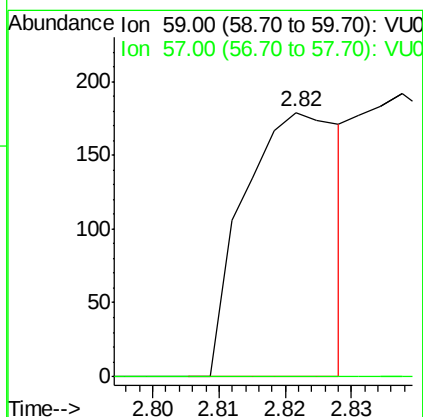
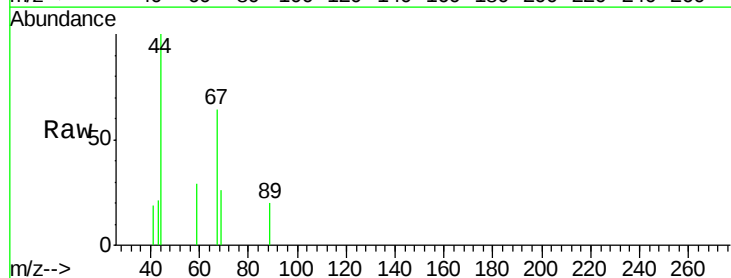
Instrument :
MSVOA_U
ClientSampleId :
S39-ER-2018-2

Tot Ion:142 Resp: 266
Ion Ratio Lower Upper
142 100
127 17.3 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.23 ug/l
RT: 2.82 min Scan# 694
Delta R.T. -0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Tgt Ion: 59 Resp: 180
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

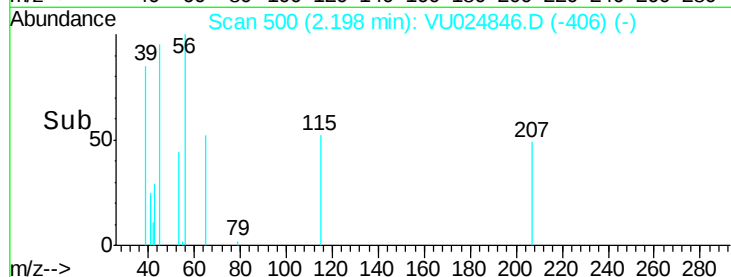
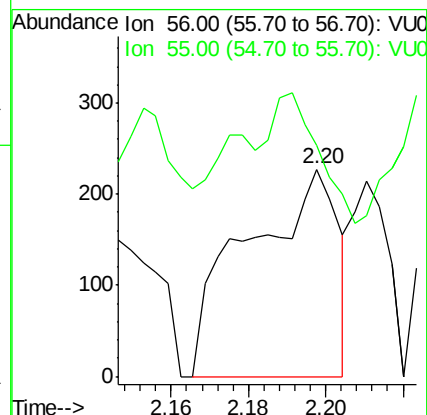
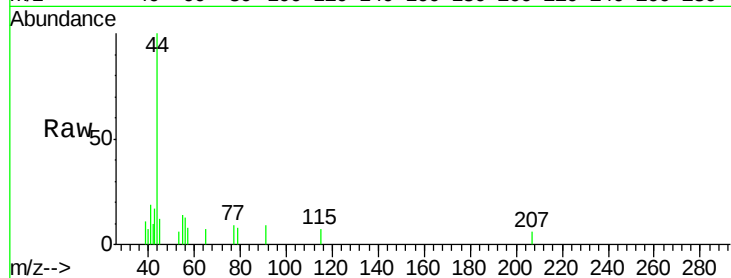




#13
Acrolein
Concen: 0.89 ug/l
RT: 2.20 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

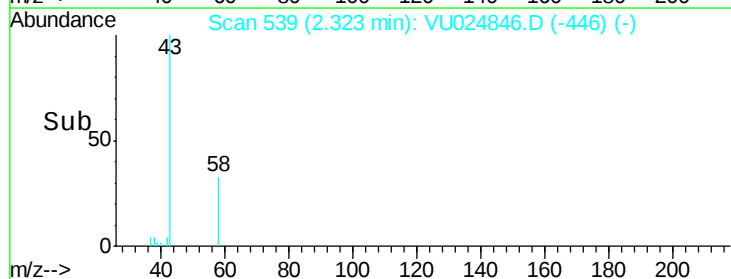
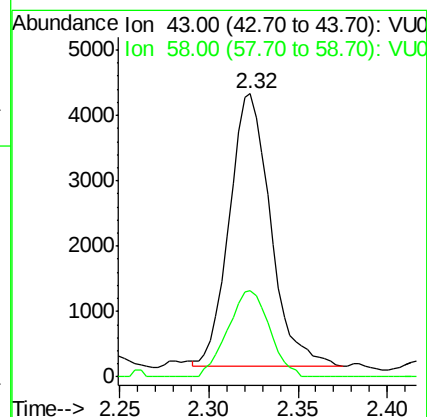
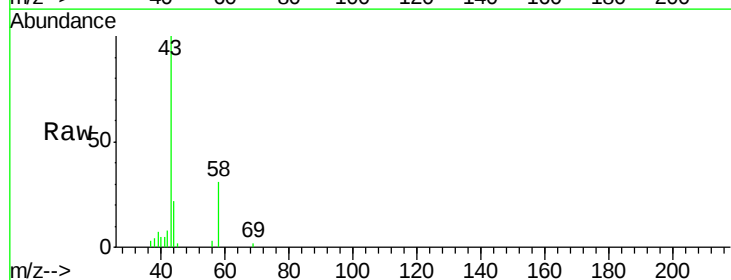
Instrument :
MSVOA_U
ClientSampleId :
S39-ER-2018-2

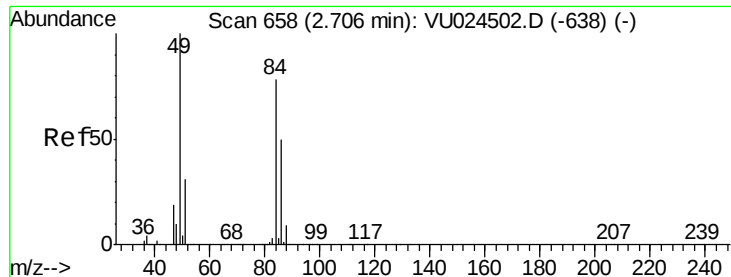
Tot Ion: 56 Resp: 369
Ion Ratio Lower Upper
56 100
55 51.8 58.4 87.6#



#16
Acetone
Concen: 3.84 ug/l
RT: 2.32 min Scan# 539
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Tgt Ion: 43 Resp: 6734
Ion Ratio Lower Upper
43 100
58 31.9 24.4 36.6





#20

Methylene Chloride

Concen: 37.07 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

S39-ER-2018-2

Tot Ion: 84 Resp: 101926

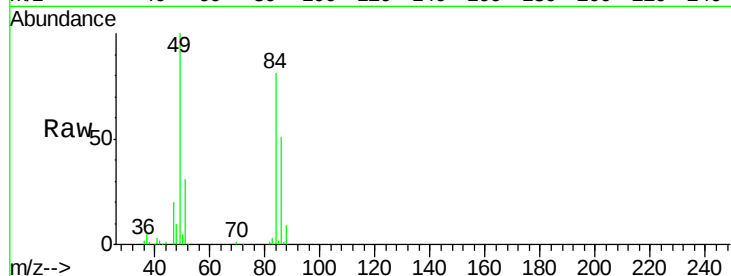
Ion Ratio Lower Upper

84 100

49 124.2 103.8 155.8

51 38.5 32.0 48.0

86 63.0 51.6 77.4

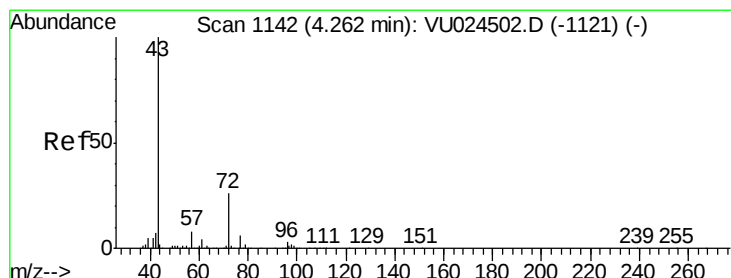
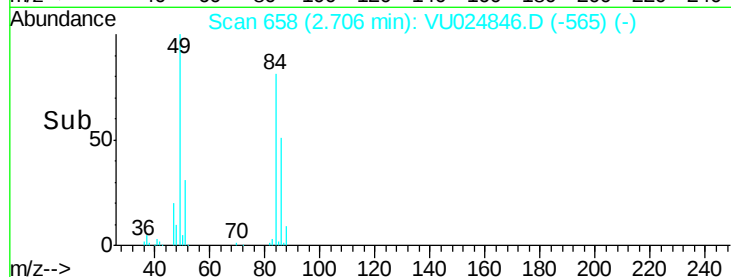
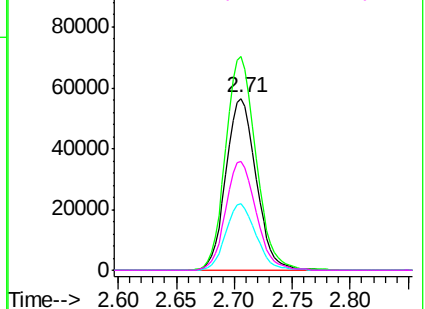


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 11.57 ug/l

RT: 4.27 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VU024846.D

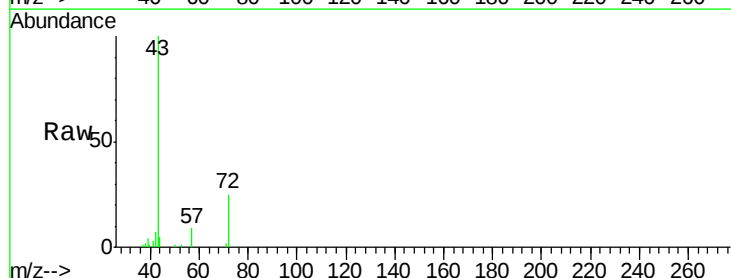
Acq: 22 Jun 2018 21:03

Tgt Ion: 43 Resp: 27241

Ion Ratio Lower Upper

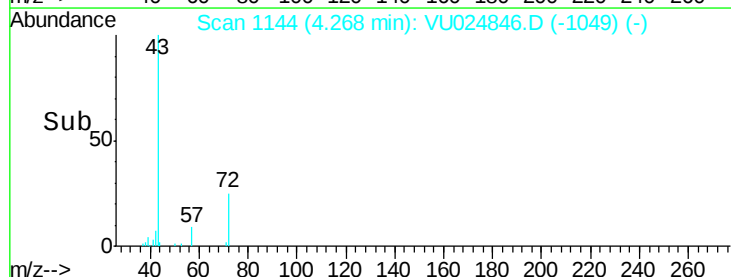
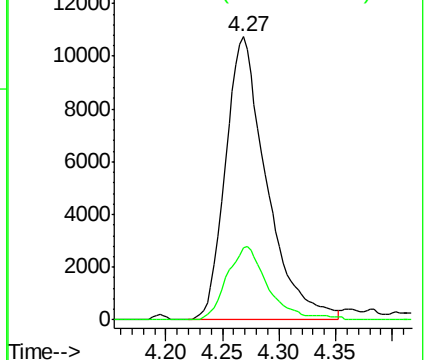
43 100

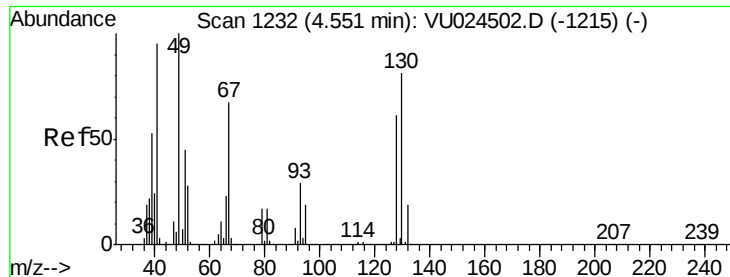
72 25.4 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#28

Bromochloromethane

Concen: 0.80 ug/l

RT: 4.63 min Scan# 1257

Delta R.T. 0.08 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

S39-ER-2018-2

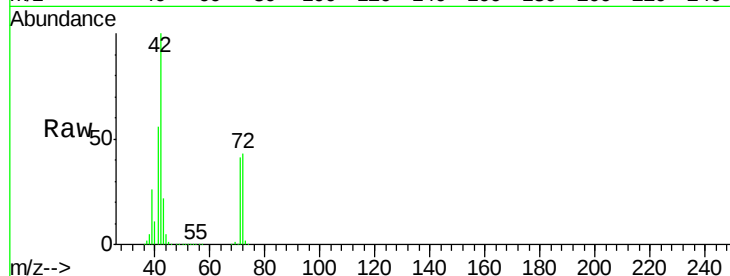
Tot Ion: 49 Resp: 1687

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

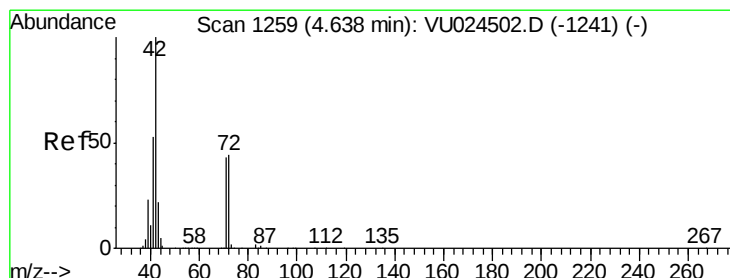
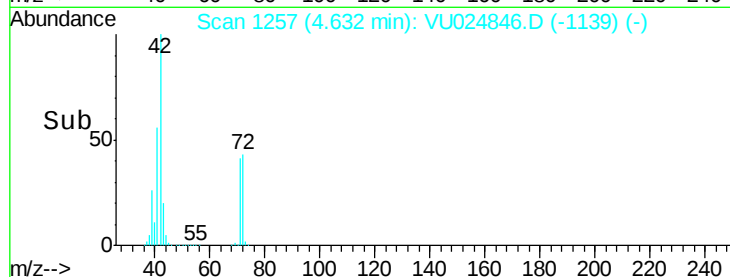
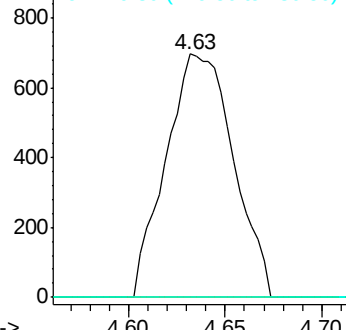
130 0.0 57.8 86.6#



Abundance Ion 48.90 (48.60 to 49.60): VU0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 621.14 ug/l

RT: 4.63 min Scan# 1258

Delta R.T. -0.00 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

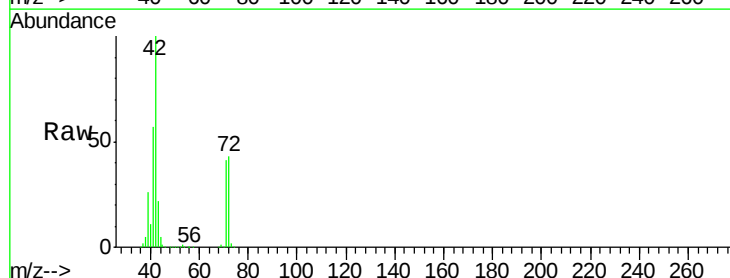
Tgt Ion: 42 Resp: 905438

Ion Ratio Lower Upper

42 100

72 44.1 34.5 51.7

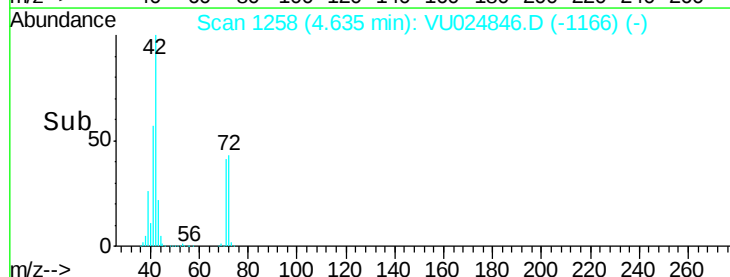
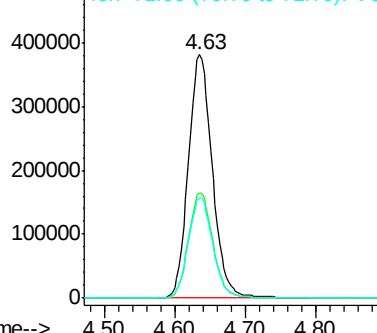
71 41.8 32.2 48.4

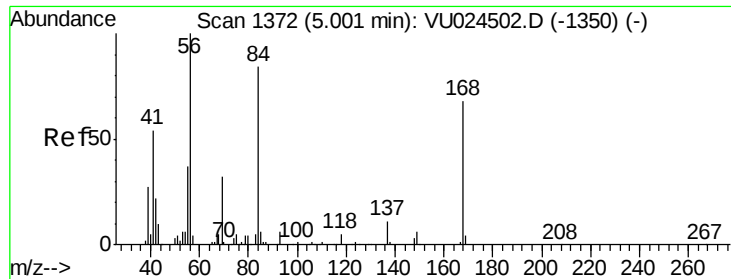


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

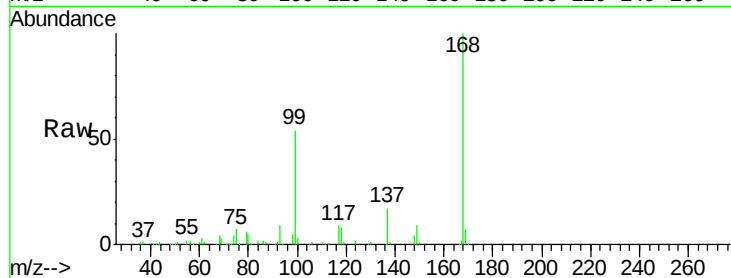




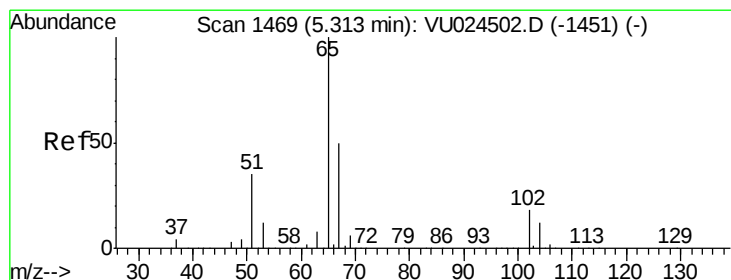
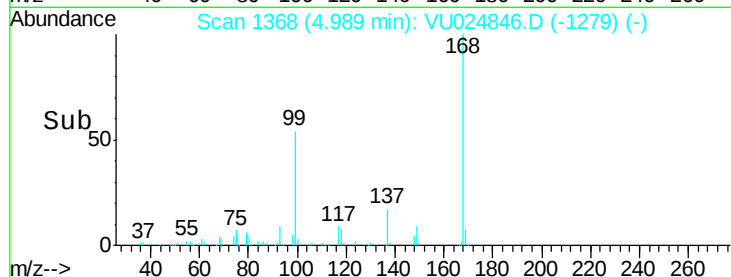
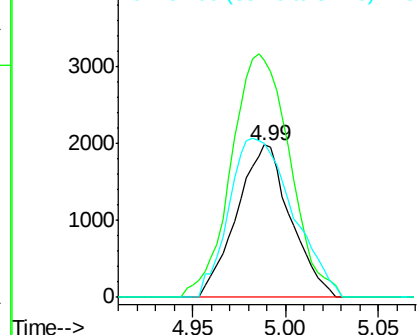
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Instrument :
MSVOA_U
ClientSampleId :
S39-ER-2018-2

Tot Ion: 56 Resp: 3986
Ion Ratio Lower Upper
56 100
69 156.1 24.8 37.2#
84 101.1 65.2 97.8#

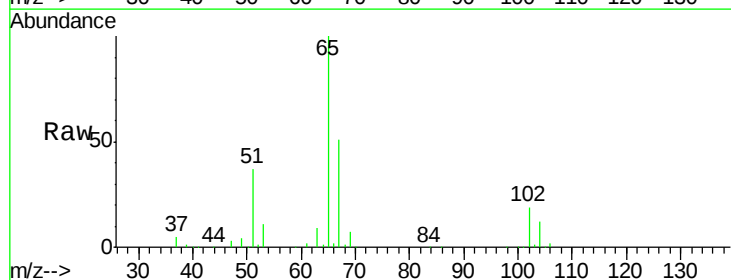


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

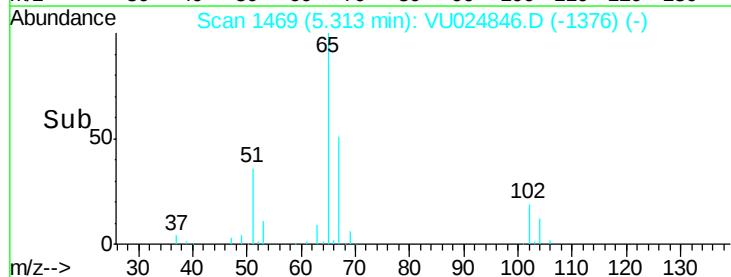
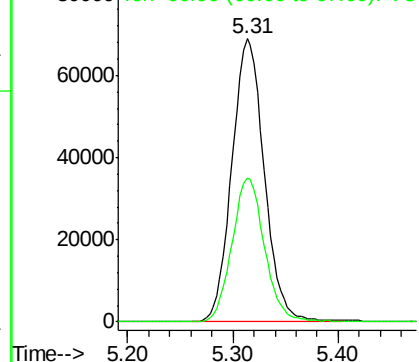


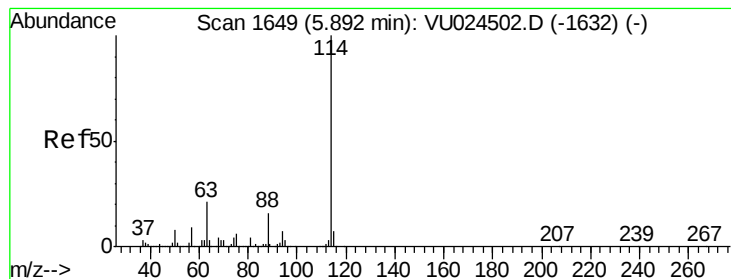
#33
1,2-Dichloroethane-d4
Concen: 45.00 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Tgt Ion: 65 Resp: 146772
Ion Ratio Lower Upper
65 100
67 50.9 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: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

S39-ER-2018-2

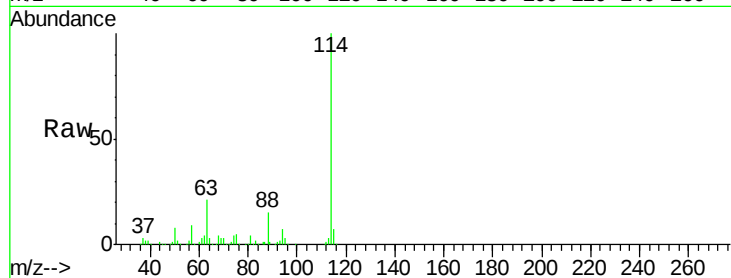
Tot Ion:114 Resp: 306709

Ion Ratio Lower Upper

114 100

63 20.7 0.0 45.4

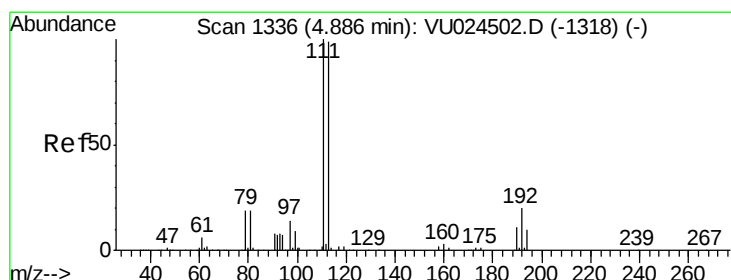
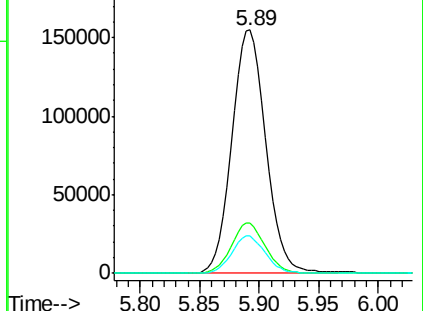
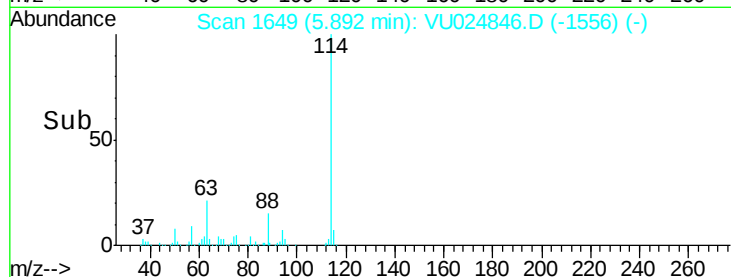
88 15.2 0.0 31.0



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



#35

Dibromofluoromethane

Concen: 46.61 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

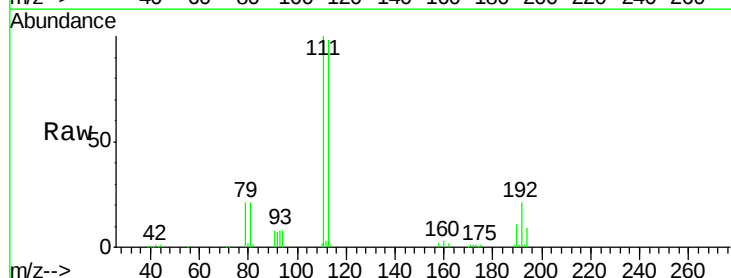
Tgt Ion:113 Resp: 118652

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

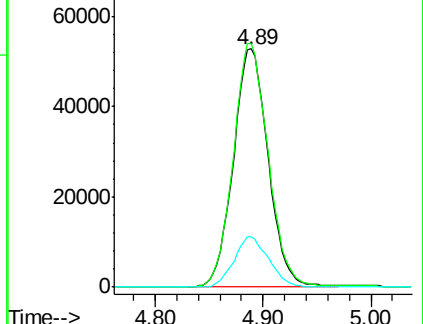
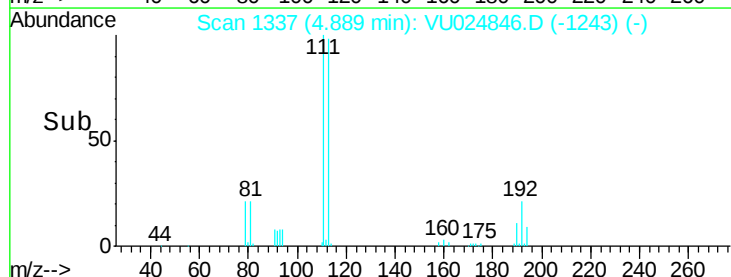
192 21.0 16.2 24.4

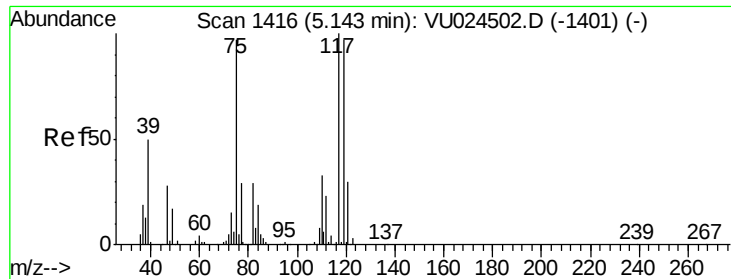


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.98 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

S39-ER-2018-2

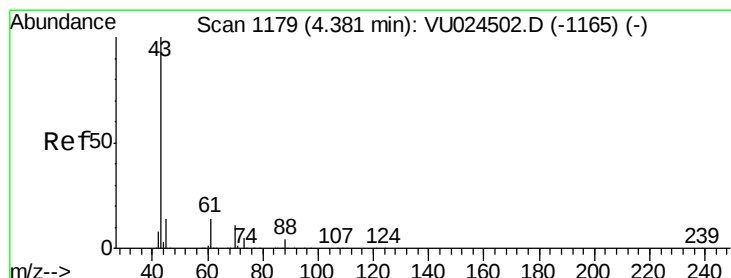
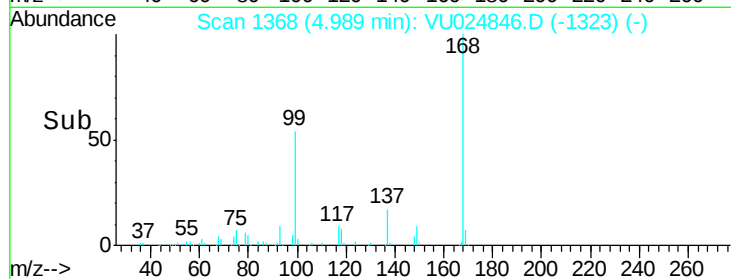
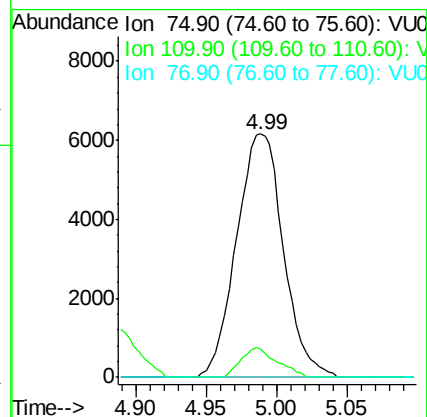
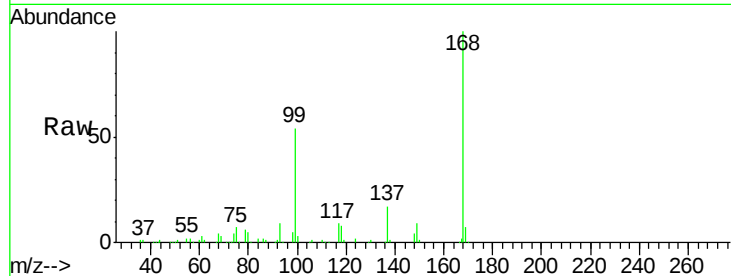
Tot Ion: 75 Resp: 14337

Ion Ratio Lower Upper

75 100

110 9.4 17.0 50.9#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 6.93 ug/l

RT: 4.27 min Scan# 1144

Delta R.T. -0.11 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

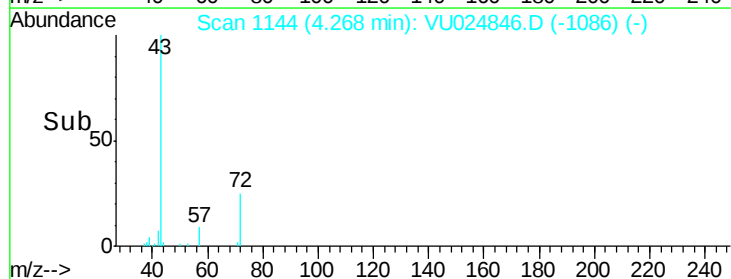
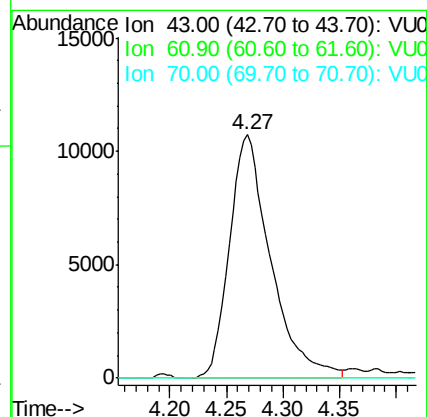
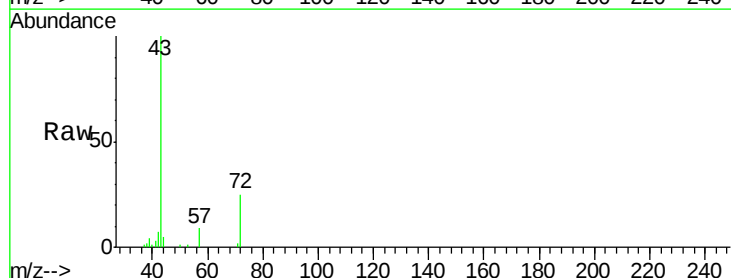
Tgt Ion: 43 Resp: 27241

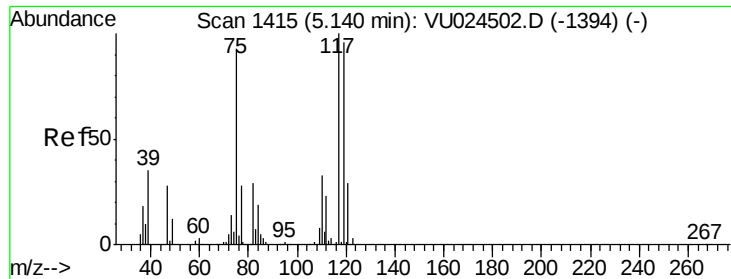
Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

70 0.0 7.4 11.2#

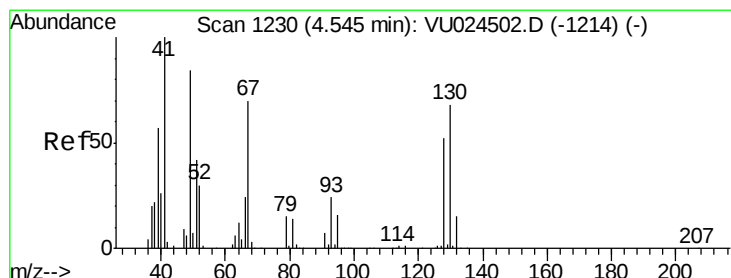
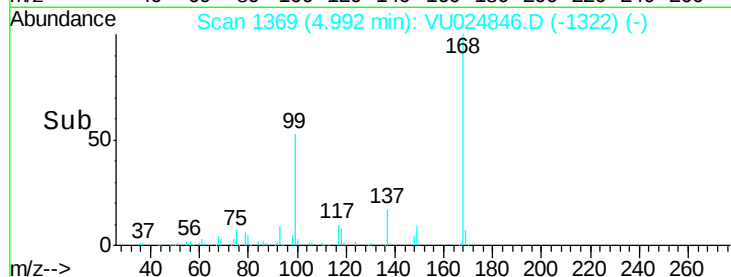
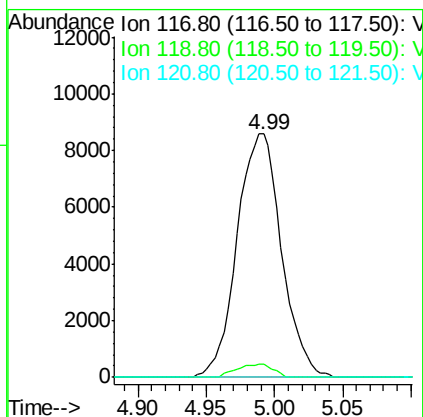
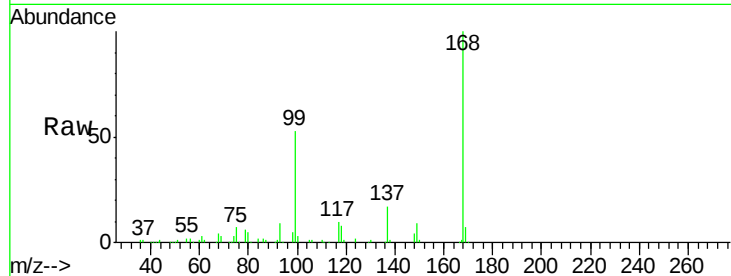




#38
Carbon Tetrachloride
Concen: 4.89 ug/l
RT: 4.99 min Scan# 1369
Delta R.T. -0.15 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

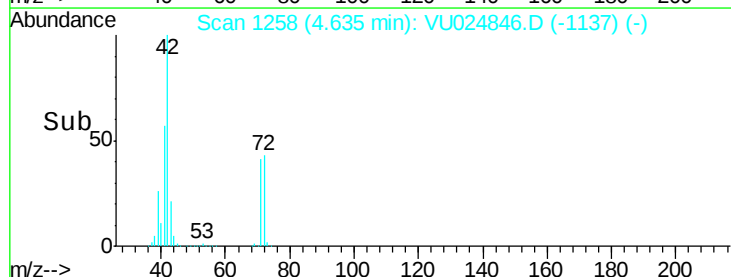
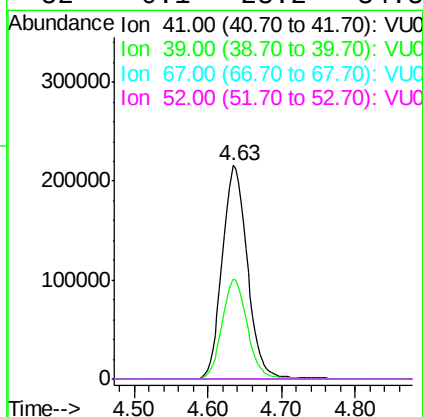
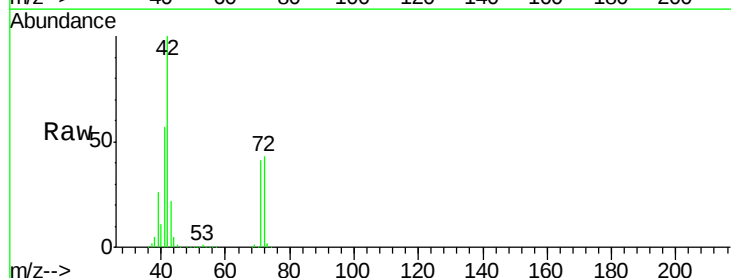
Instrument :
MSVOA_U
ClientSampleId :
S39-ER-2018-2

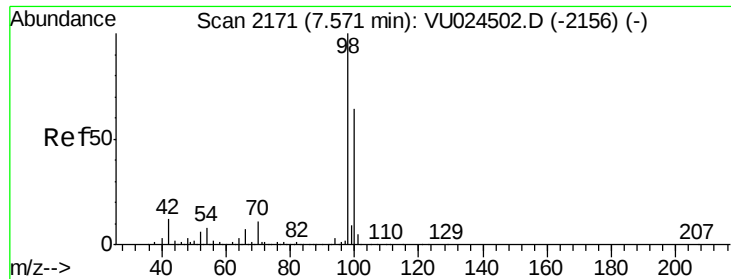
Tot Ion:117 Resp: 19384
Ion Ratio Lower Upper
117 100
119 5.4 76.1 114.1#
121 0.0 23.7 35.5#



#41
Methacrylonitrile
Concen: 242.60 ug/l
RT: 4.63 min Scan# 1258
Delta R.T. 0.09 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Tgt Ion: 41 Resp: 513805
Ion Ratio Lower Upper
41 100
39 46.5 43.8 65.6
67 0.0 56.3 84.5#
52 0.1 23.2 34.8#

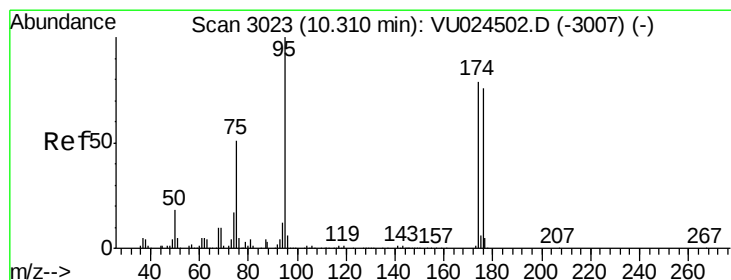
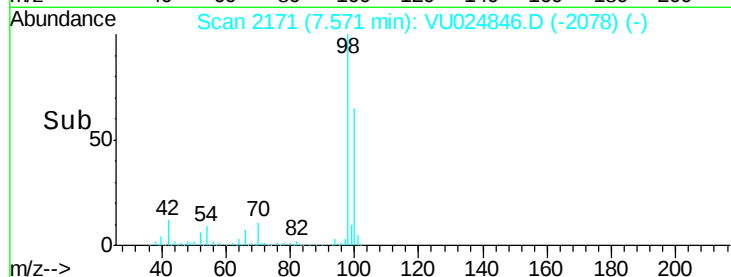
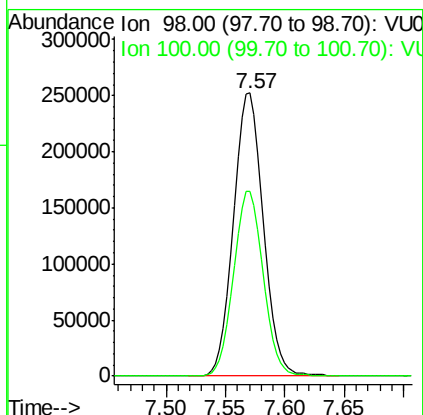
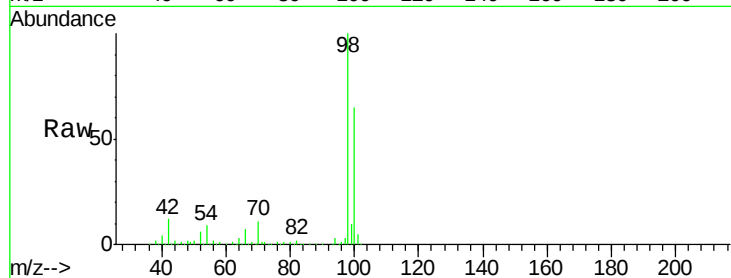




#50
Toluene-d8
Concen: 47.36 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

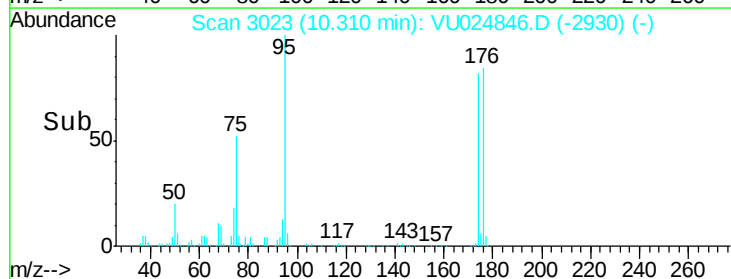
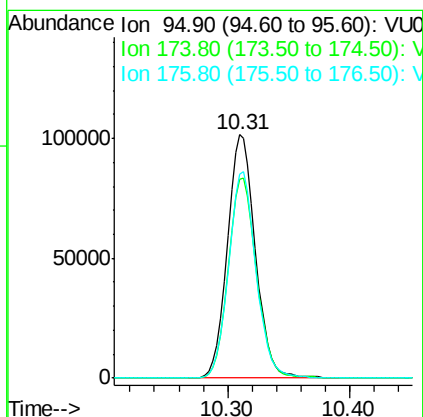
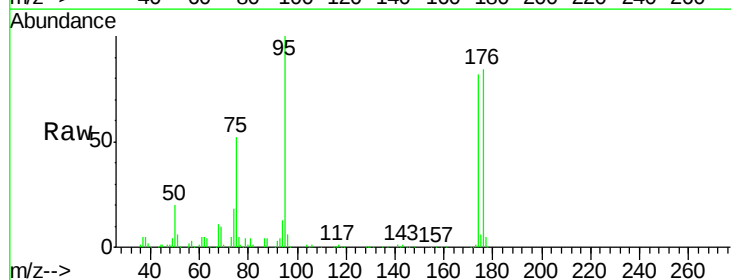
Instrument :
MSVOA_U
ClientSampleId :
S39-ER-2018-2

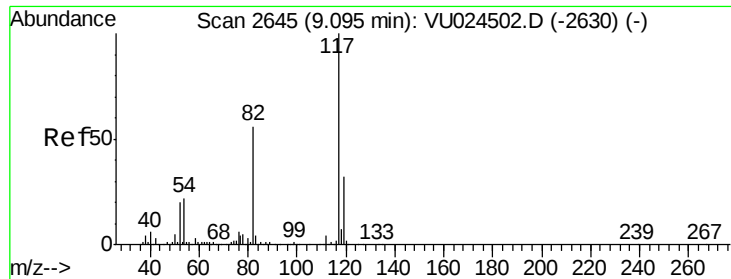
Tot Ion: 98 Resp: 439743
Ion Ratio Lower Upper
98 100
100 65.2 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 44.19 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Tgt Ion: 95 Resp: 162896
Ion Ratio Lower Upper
95 100
174 83.2 0.0 165.8
176 83.2 0.0 159.4

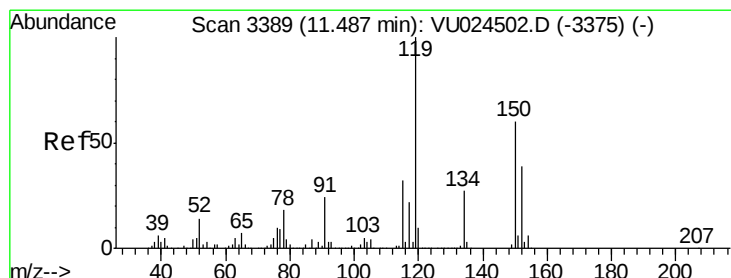
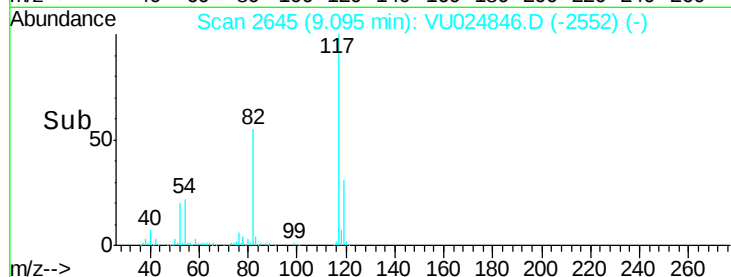
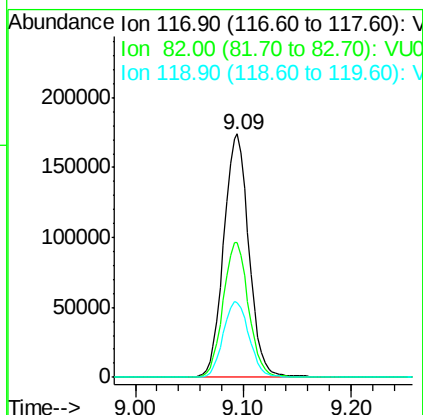
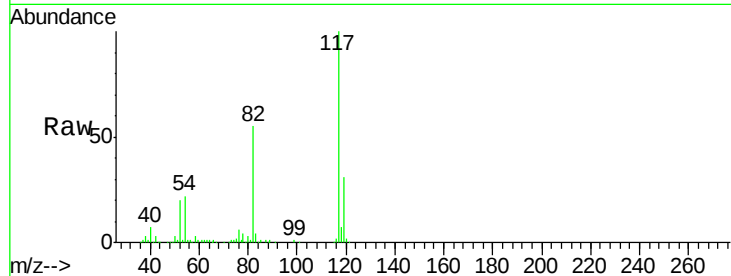




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

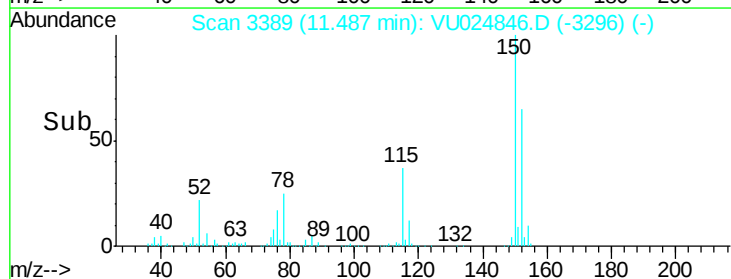
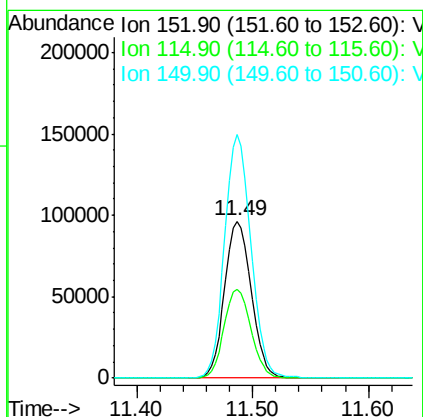
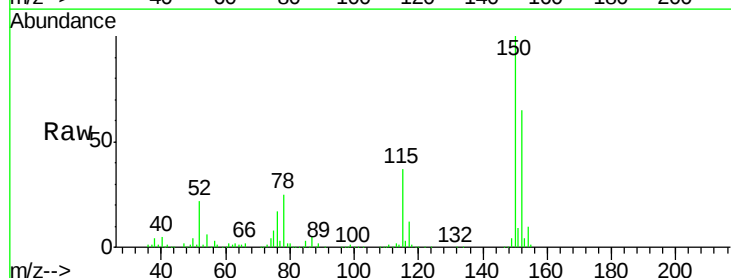
Instrument :
MSVOA_U
ClientSampleId :
S39-ER-2018-2

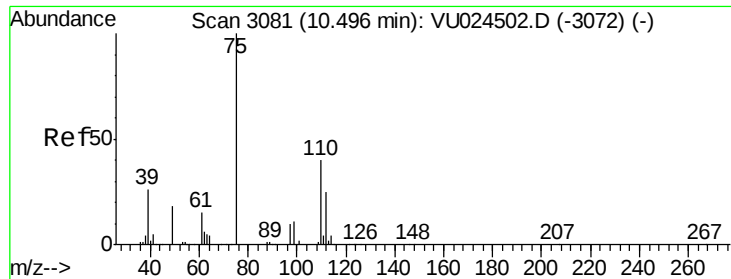
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	44.3	66.5
119	30.8	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024846.D
Acq: 22 Jun 2018 21:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.1	43.0	129.0
150	152.6	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 25.09 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

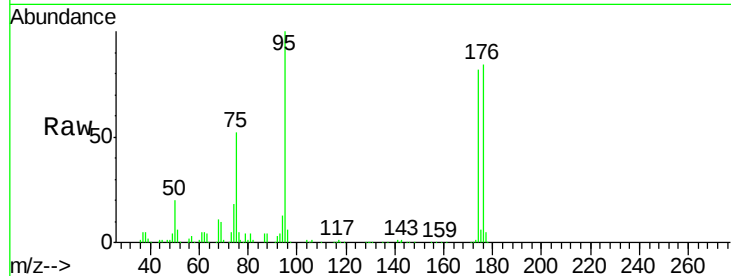
S39-ER-2018-2

Tot Ion: 75 Resp: 84884

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.31

60000

50000

40000

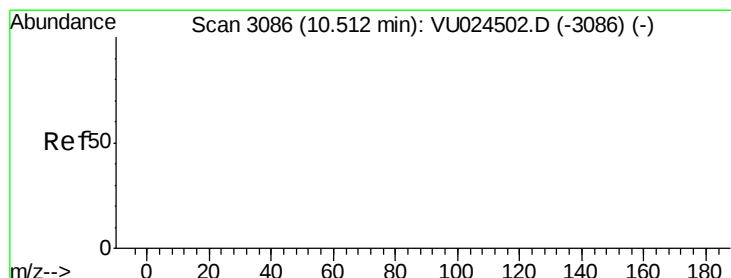
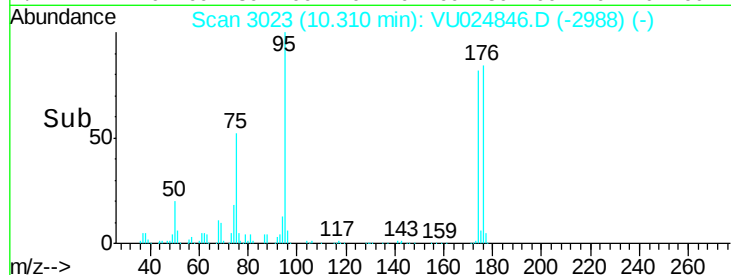
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 58.07 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

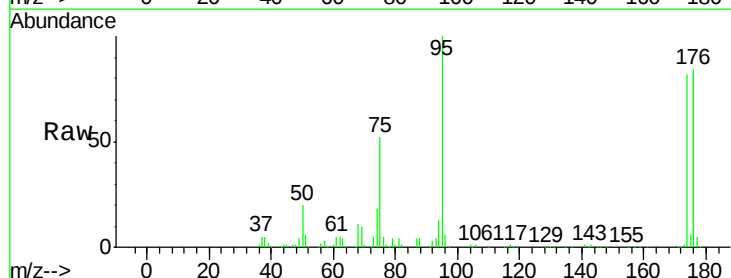
Tgt Ion: 75 Resp: 84884

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

10.31

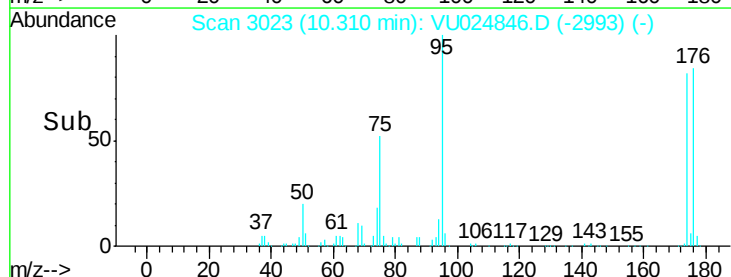
60000

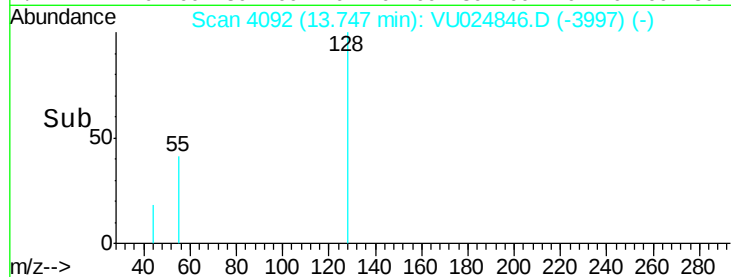
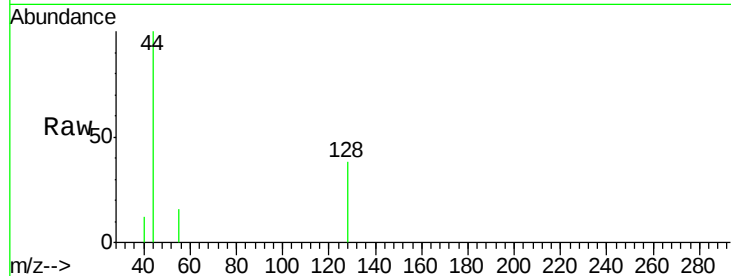
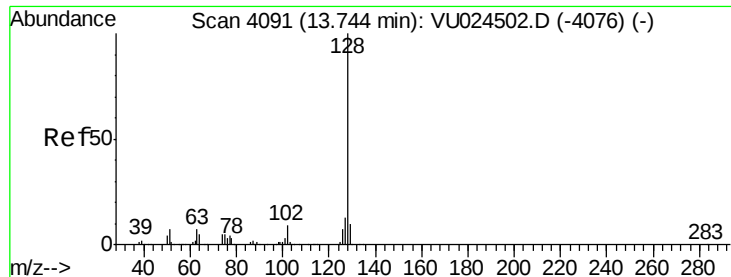
40000

20000

0

Time-->





#95

Naphthalene

Concen: 0.71 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU024846.D

Acq: 22 Jun 2018 21:03

Instrument :

MSVOA_U

ClientSampleId :

S39-ER-2018-2

Tot Ion:128 Resp: 314

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 12.7 8.6 12.8

