

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073018\
 Data File : VU025726.D
 Acq On : 30 Jul 2018 16:38
 Operator : MD/SY
 Sample : J4177-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SITE1-IDW-DRUM3-072518

Quant Time: Jul 31 03:38:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 28 02:19:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	179483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	289444	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	287350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	174638	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	143492	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
35) Dibromofluoromethane	4.89	113	119874	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	7.57	98	422561	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	10.31	95	164107	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	

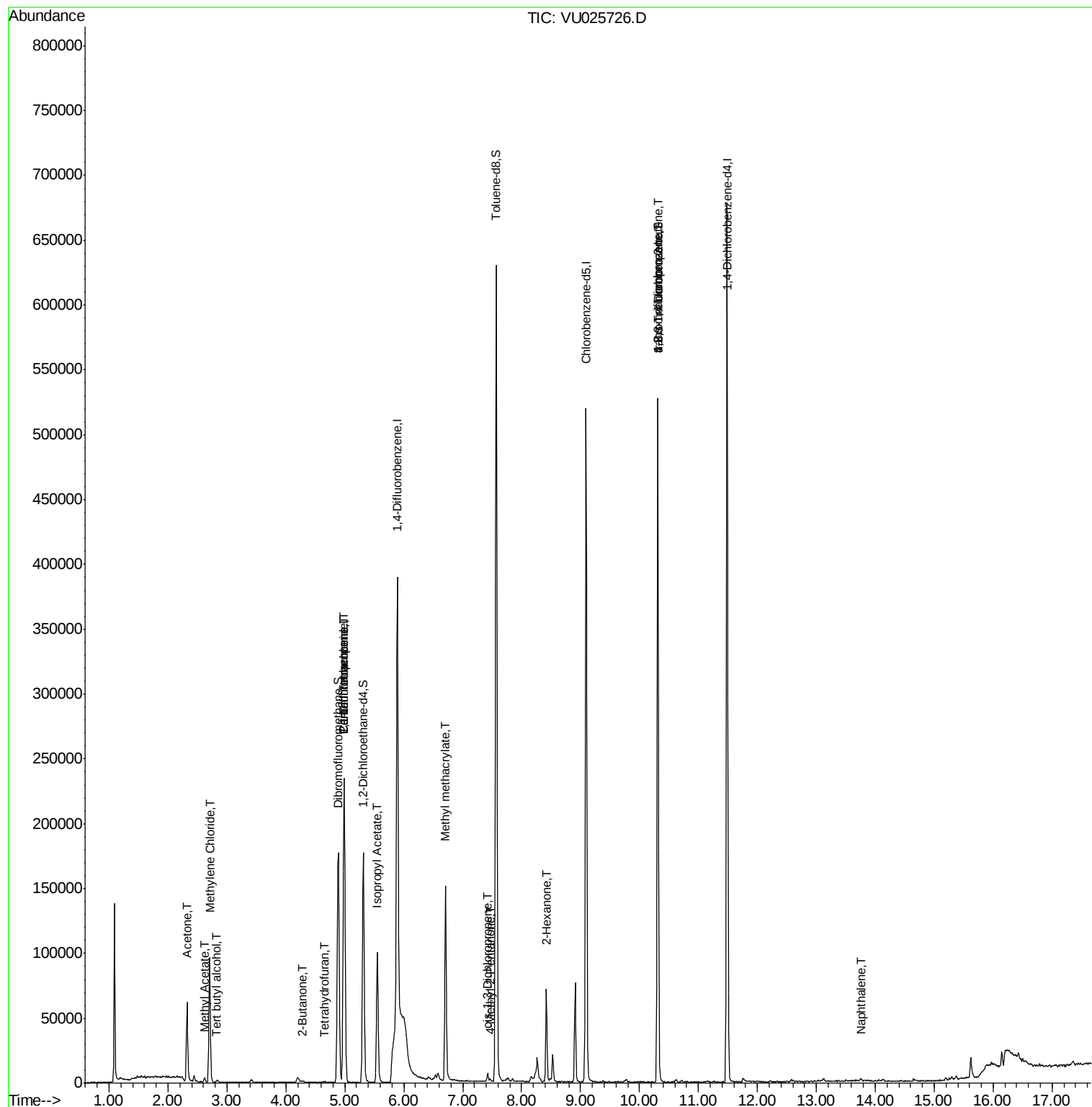
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.82	59	615	1.00	ug/l	# 73
13) Acrolein	2.21	56	70	Below	Cal	# 4
16) Acetone	2.32	43	63024	46.22	ug/l	97
18) Methyl Acetate	2.62	43	3566	1.09	ug/l	100
20) Methylene Chloride	2.71	84	42829	17.72	ug/l	97
25) 2-Butanone	4.29	43	2116	1.14	ug/l	97
29) Tetrahydrofuran	4.66	42	565	0.51	ug/l	# 67
31) Cyclohexane	4.99	56	3419	Below	Cal	# 36
36) 1,1-Dichloropropene	4.99	75	14033	4.15	ug/l	# 50
38) Carbon Tetrachloride	4.99	117	17185	4.49	ug/l	# 17
43) Isopropyl Acetate	5.55	43	113958	19.66	ug/l	99
48) Methyl methacrylate	6.71	41	14160	4.98	ug/l	# 45
51) 4-Methyl-2-Pentanone	7.46	43	1589	0.44	ug/l	# 68
54) cis-1,3-Dichloropropene	7.43	75	895	0.22	ug/l	# 59
59) 2-Hexanone	8.42	43	9753	3.43	ug/l	# 56
76) 1,2,3-Trichloropropane	10.31	75	85931	22.79	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	85931	61.77	ug/l	# 100
95) Naphthalene	13.75	128	1531	1.37	ug/l	# 83

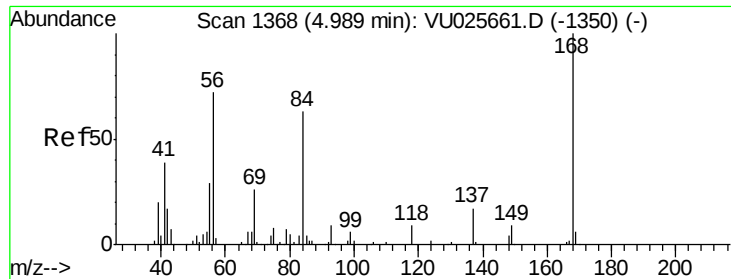
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

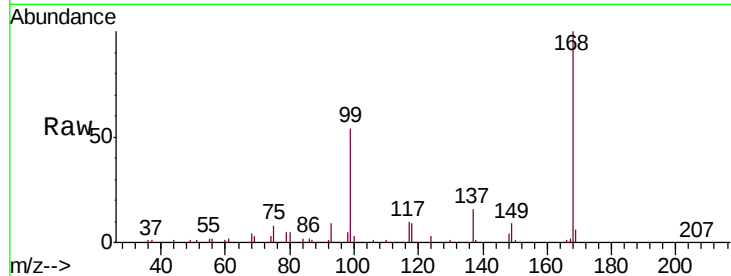
SITE1-IDW-DRUM3-072518

Tot Ion:168 Resp: 179483

Ion Ratio Lower Upper

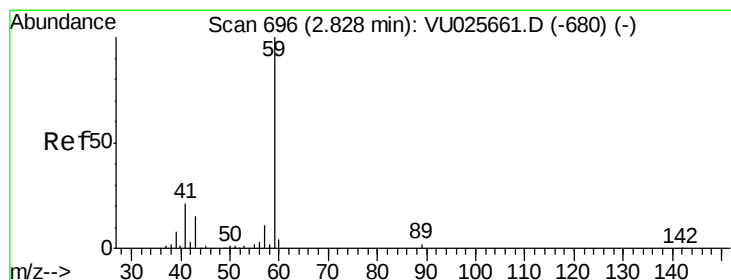
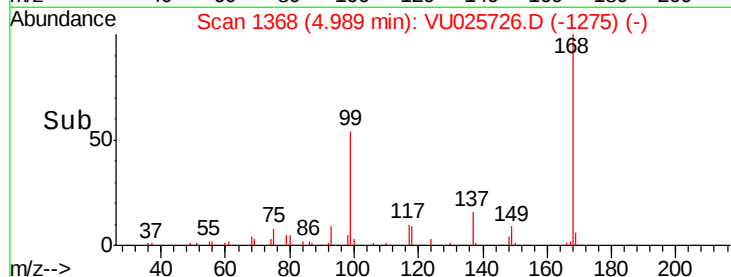
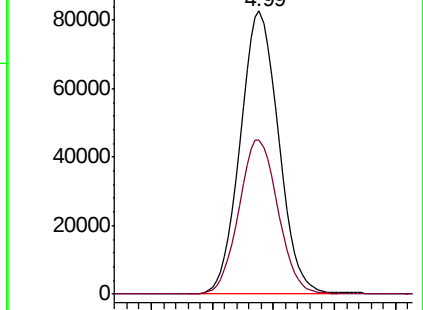
168 100

99 54.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)



#11

Tert butyl alcohol

Concen: 1.00 ug/l

RT: 2.82 min Scan# 694

Delta R.T. -0.01 min

Lab File: VU025726.D

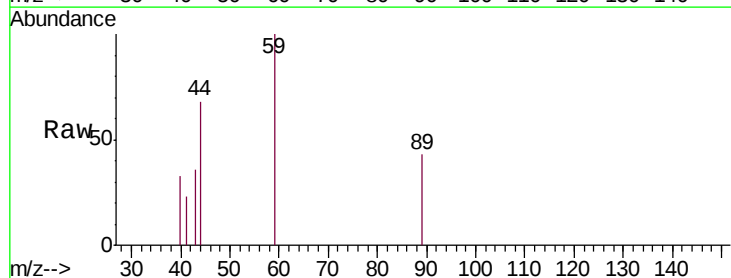
Acq: 30 Jul 2018 16:38

Tgt Ion: 59 Resp: 615

Ion Ratio Lower Upper

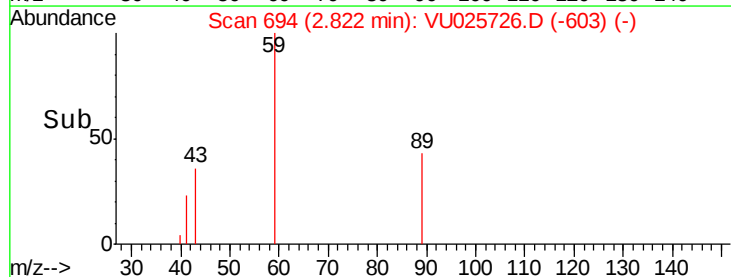
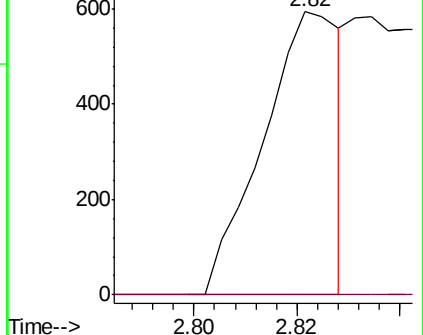
59 100

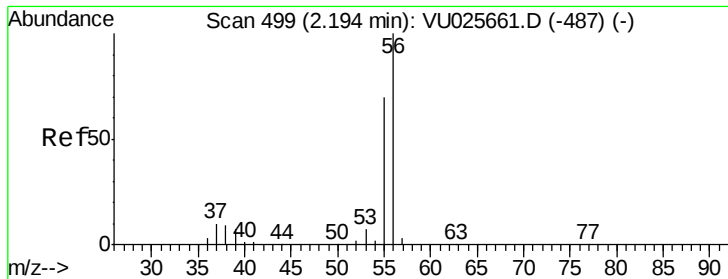
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU025661.D (-680) (-)

Ion 57.00 (56.70 to 57.70): VU025661.D (-680) (-)





#13

Acrolein

Concen: Below Cal

RT: 2.21 min Scan# 503

Delta R.T. 0.01 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

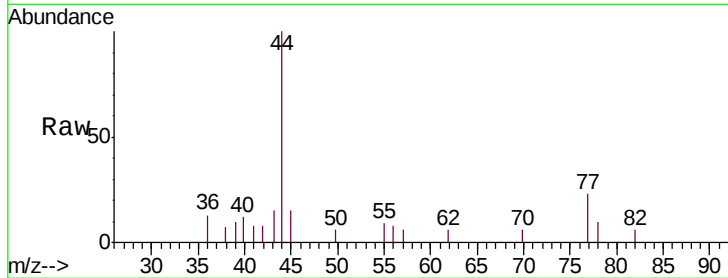
SITE1-IDW-DRUM3-072518

Tot Ion: 56 Resp: 70

Ion Ratio Lower Upper

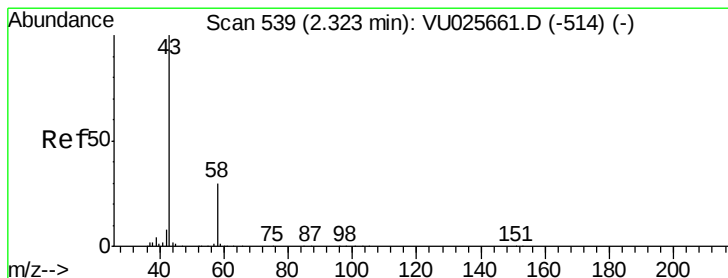
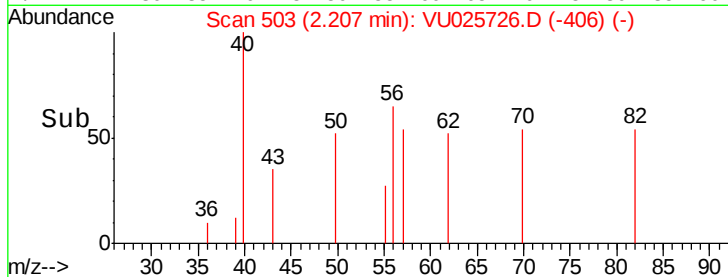
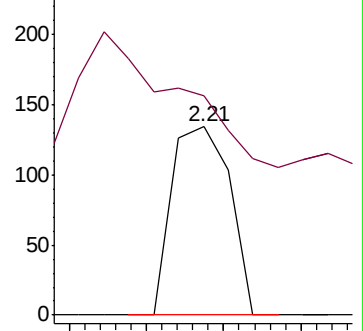
56 100

55 151.4 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 46.22 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025726.D

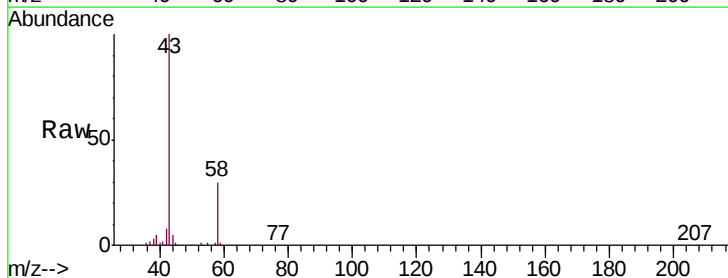
Acq: 30 Jul 2018 16:38

Tgt Ion: 43 Resp: 63024

Ion Ratio Lower Upper

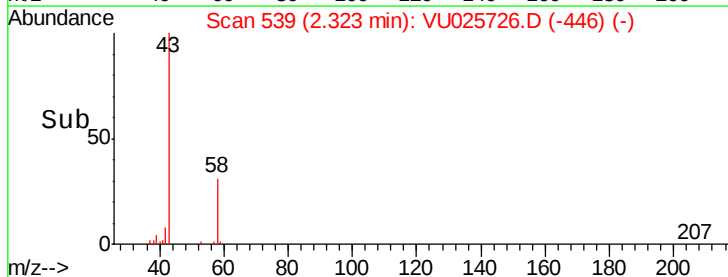
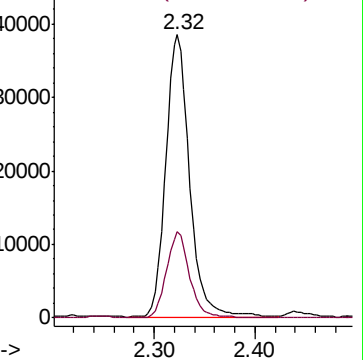
43 100

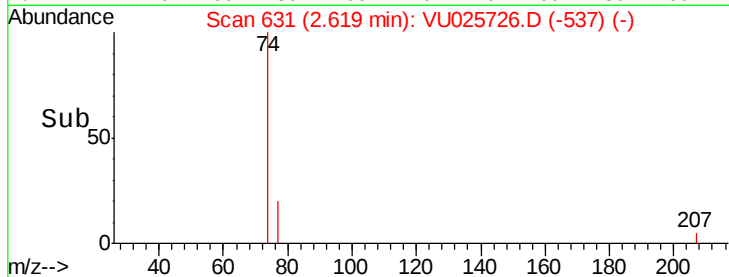
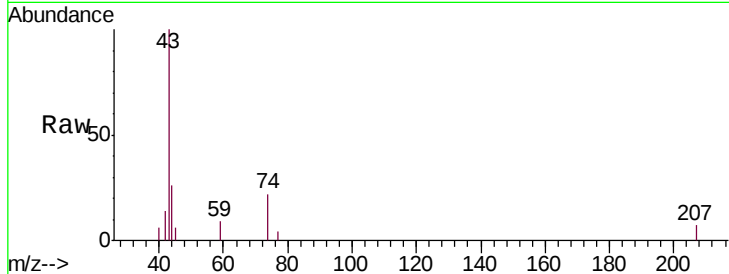
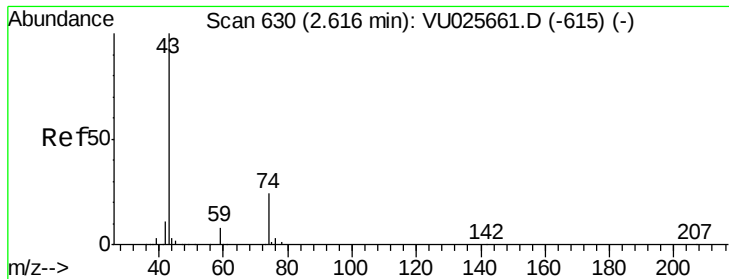
58 30.4 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

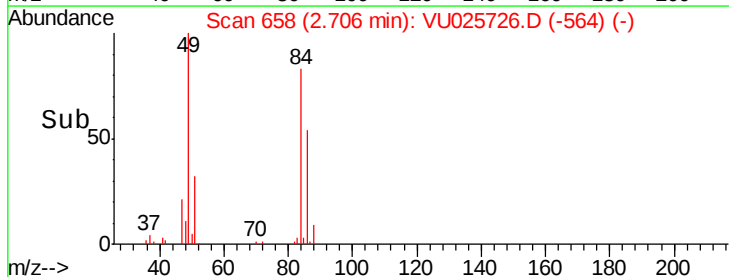
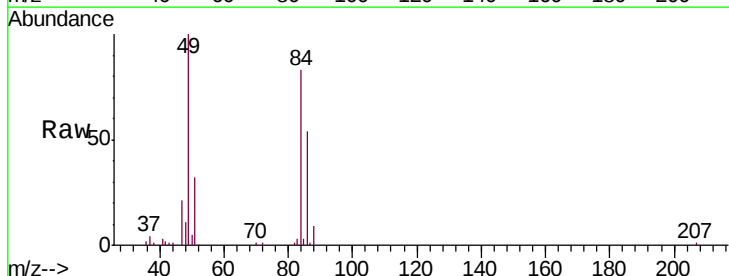
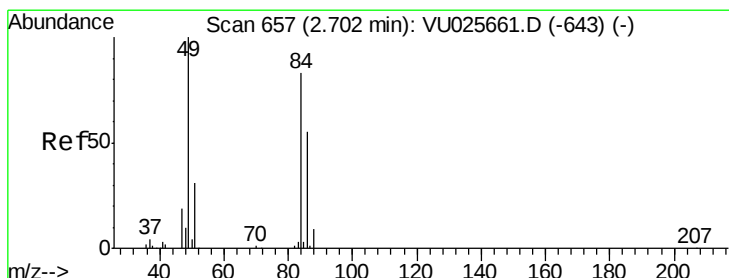
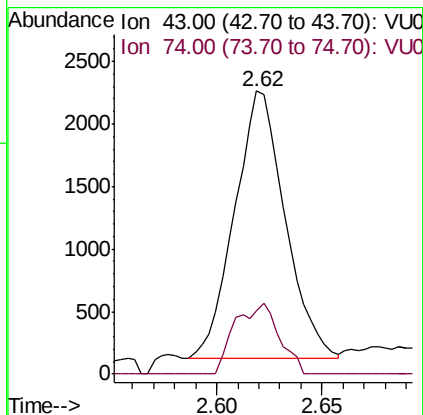




#18
Methyl Acetate
Concen: 1.09 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025726.D
Acq: 30 Jul 2018 16:38

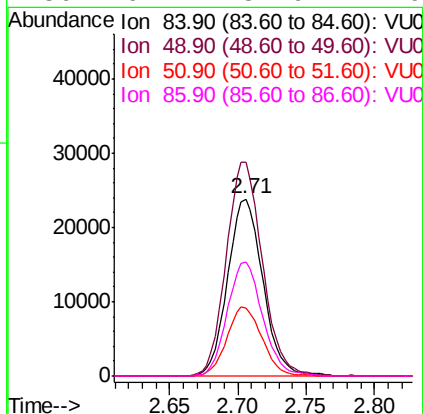
Instrument :
MSVOA_U
ClientSampleId :
SITE1-IDW-DRUM3-072518

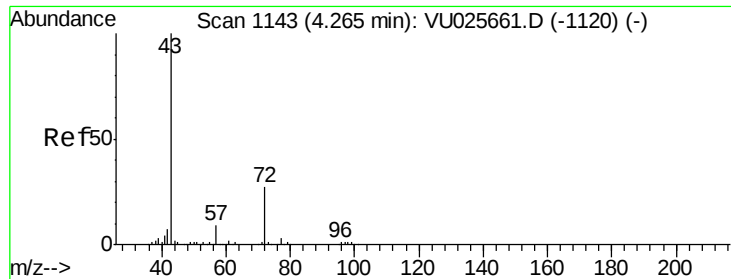
Tot Ion: 43 Resp: 3566
Ion Ratio Lower Upper
43 100
74 23.2 18.5 27.7



#20
Methylene Chloride
Concen: 17.72 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025726.D
Acq: 30 Jul 2018 16:38

Tgt Ion: 84 Resp: 42829
Ion Ratio Lower Upper
84 100
49 120.8 101.8 152.6
51 38.6 30.8 46.2
86 64.7 51.9 77.9

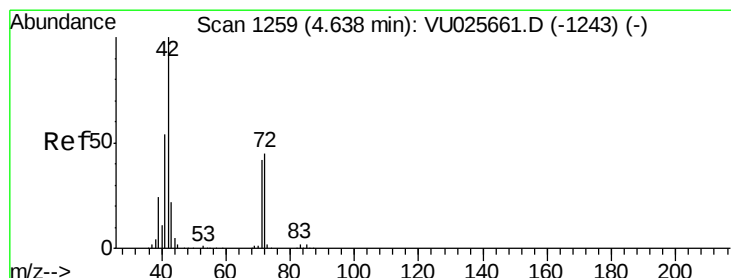
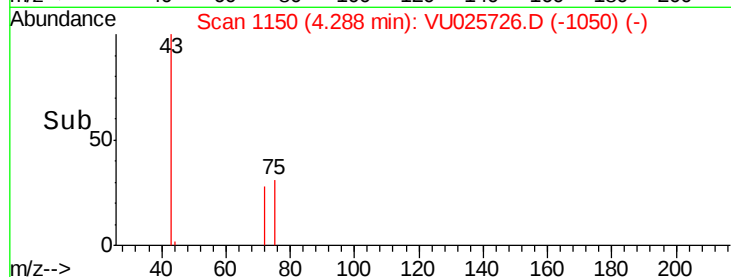
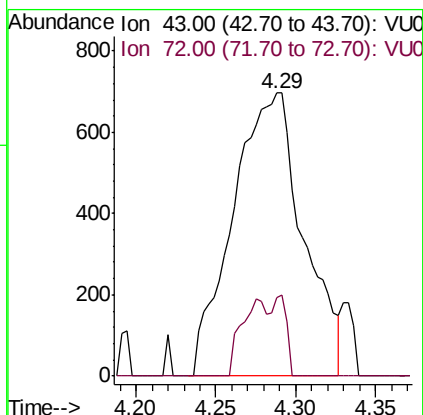
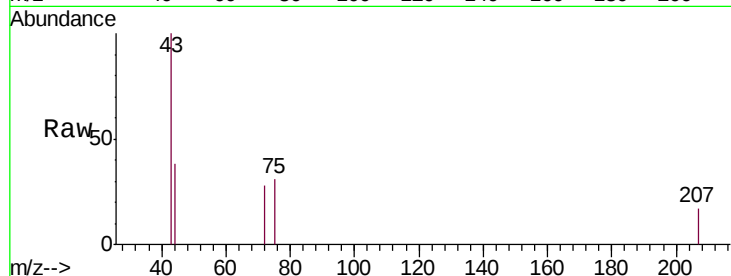




#25
2-Butanone
Concen: 1.14 ug/l
RT: 4.29 min Scan# 1150
Delta R.T. 0.02 min
Lab File: VU025726.D
Acq: 30 Jul 2018 16:38

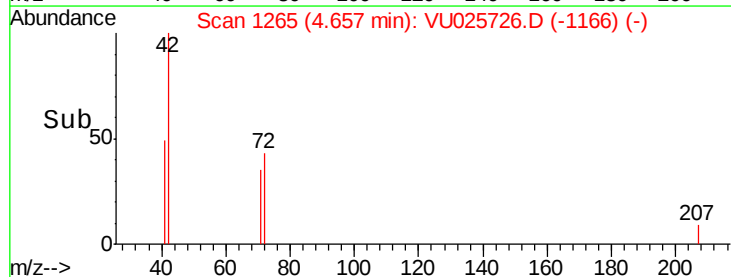
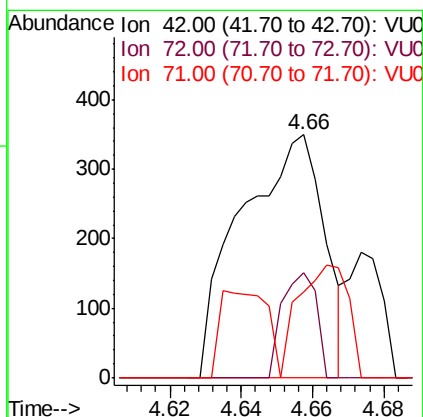
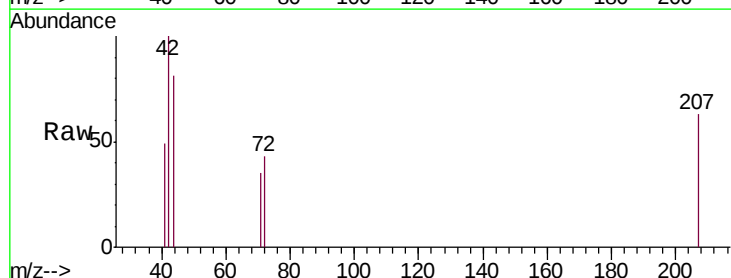
Instrument :
MSVOA_U
ClientSampleId :
SITE1-IDW-DRUM3-072518

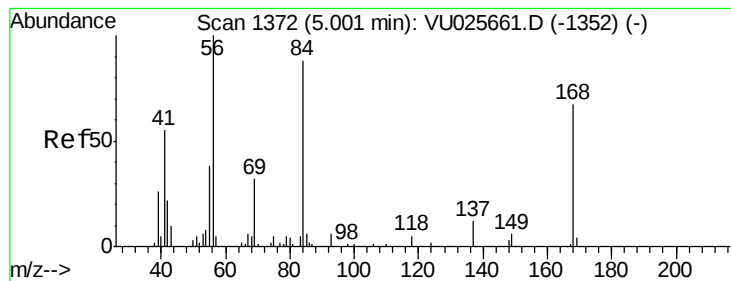
Tot Ion: 43 Resp: 2116
Ion Ratio Lower Upper
43 100
72 27.8 21.0 31.4



#29
Tetrahydrofuran
Concen: 0.51 ug/l
RT: 4.66 min Scan# 1265
Delta R.T. 0.02 min
Lab File: VU025726.D
Acq: 30 Jul 2018 16:38

Tgt Ion: 42 Resp: 565
Ion Ratio Lower Upper
42 100
72 17.7 36.7 55.1#
71 27.6 33.9 50.9#





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM3-072518

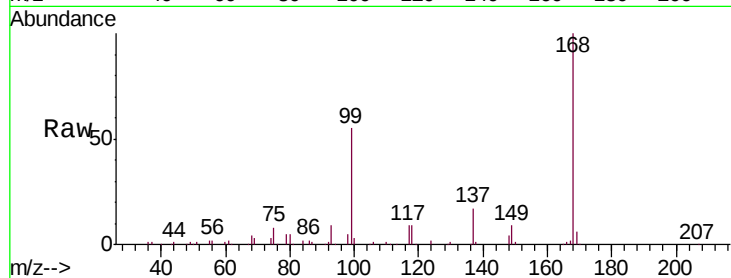
Tot Ion: 56 Resp: 3419

Ion Ratio Lower Upper

56 100

69 148.3 26.8 40.2#

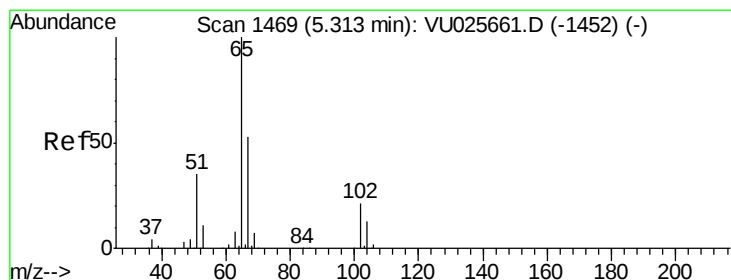
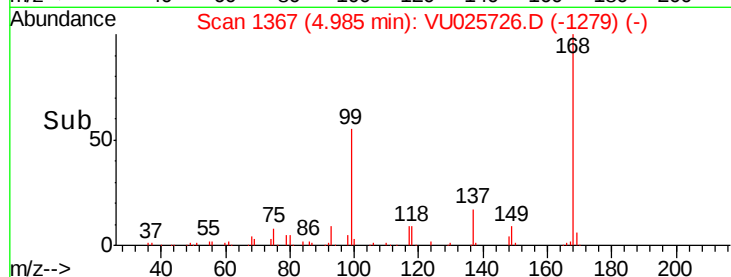
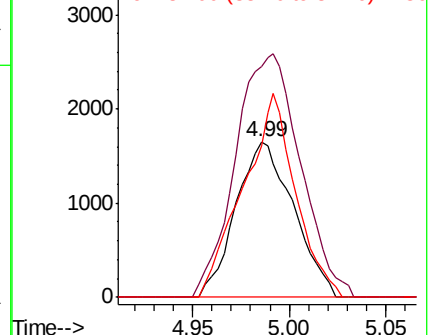
84 97.1 69.7 104.5



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: 51.31 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025726.D

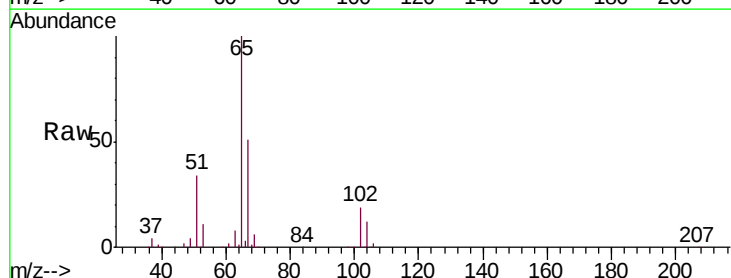
Acq: 30 Jul 2018 16:38

Tgt Ion: 65 Resp: 143492

Ion Ratio Lower Upper

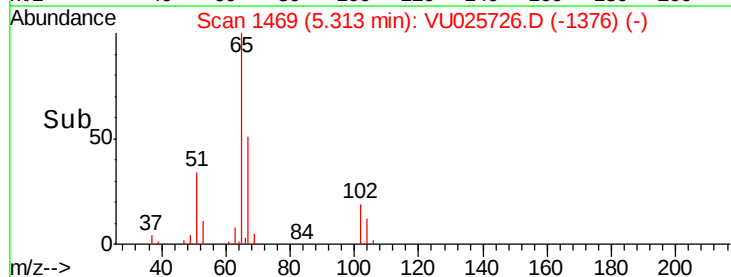
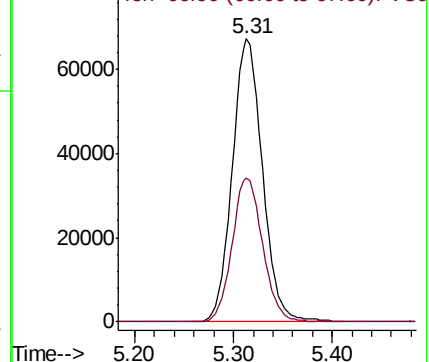
65 100

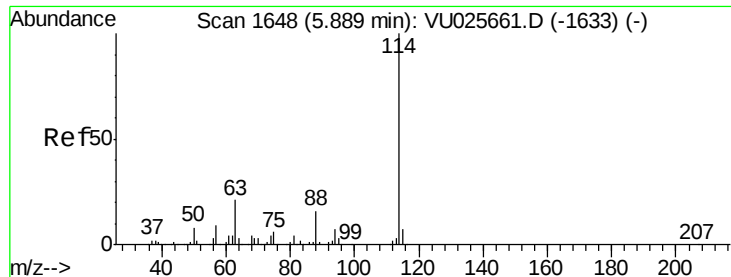
67 51.4 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

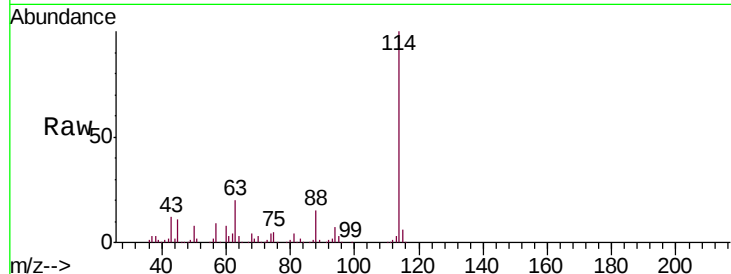




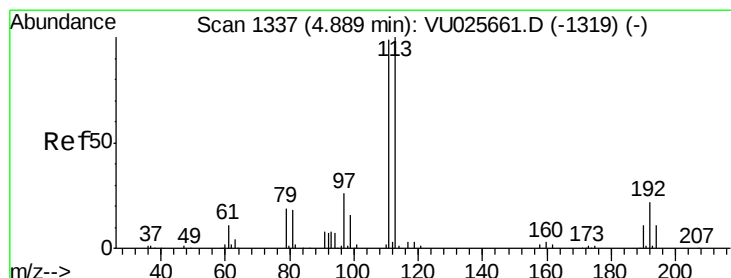
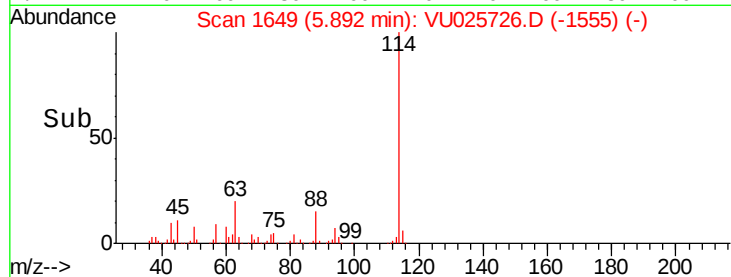
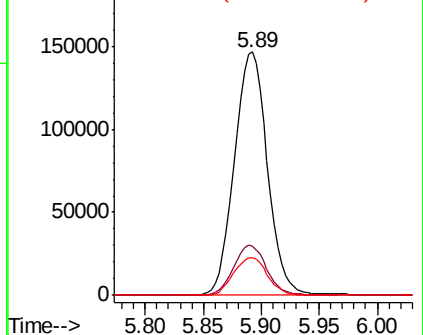
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025726.D
 Acq: 30 Jul 2018 16:38

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Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	41.6
88	15.5	0.0	32.4

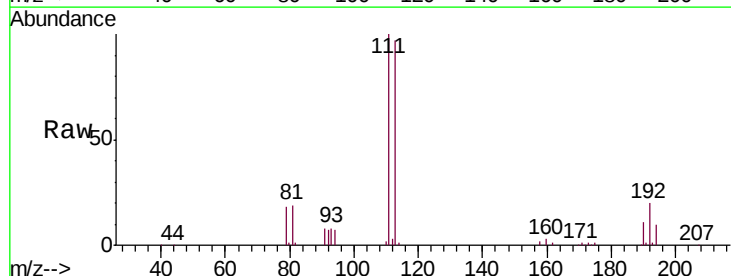


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

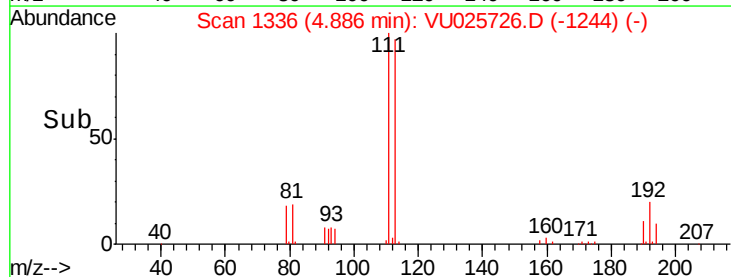
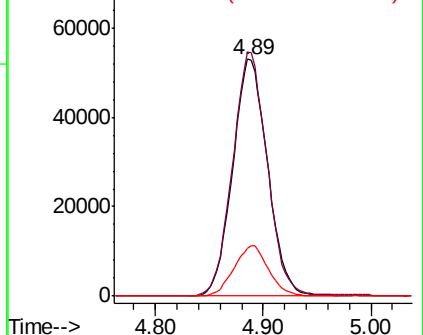


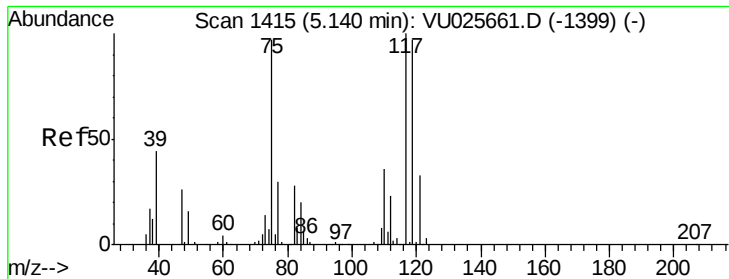
#35
 Dibromofluoromethane
 Concen: 47.62 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025726.D
 Acq: 30 Jul 2018 16:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.7	122.5
192	21.0	17.1	25.7



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





#36

1,1-Dichloropropene

Concen: 4.15 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM3-072518

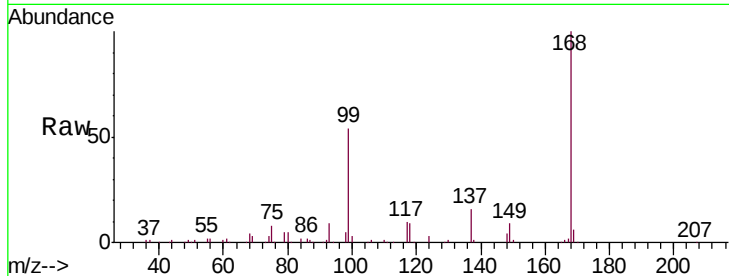
Tot Ion: 75 Resp: 14033

Ion Ratio Lower Upper

75 100

110 8.8 17.6 52.9#

77 0.0 24.4 36.6#

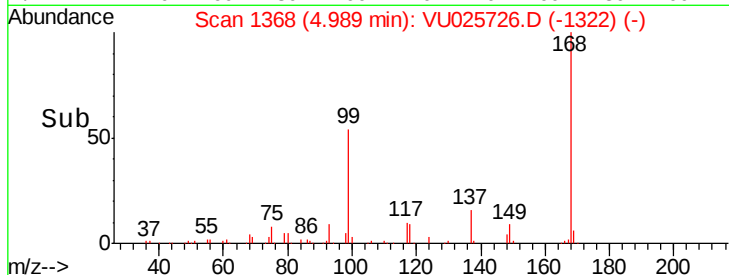


Abundance Ion 74.90 (74.60 to 75.60): VU025726.D (-1322) (-)

Ion 109.90 (109.60 to 110.60): VU025726.D (-1322) (-)

Ion 76.90 (76.60 to 77.60): VU025726.D (-1322) (-)

Time-->



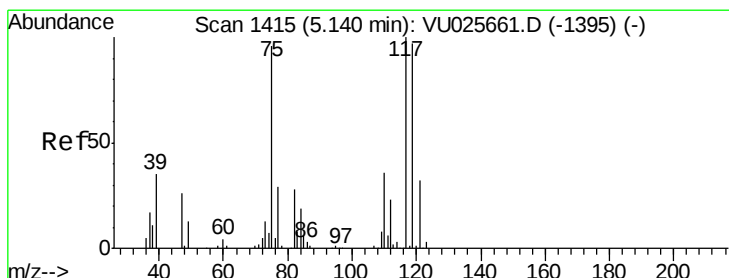
Abundance

Ion 74.90 (74.60 to 75.60): VU025726.D (-1322) (-)

Ion 109.90 (109.60 to 110.60): VU025726.D (-1322) (-)

Ion 76.90 (76.60 to 77.60): VU025726.D (-1322) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.49 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

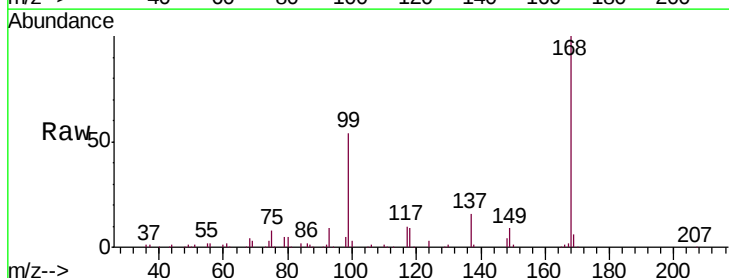
Tgt Ion: 117 Resp: 17185

Ion Ratio Lower Upper

117 100

119 5.2 75.7 113.5#

121 0.0 24.6 36.8#

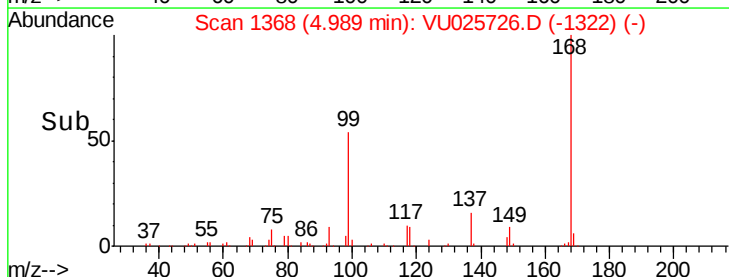


Abundance Ion 116.80 (116.50 to 117.50): VU025726.D (-1322) (-)

Ion 118.80 (118.50 to 119.50): VU025726.D (-1322) (-)

Ion 120.80 (120.50 to 121.50): VU025726.D (-1322) (-)

Time-->



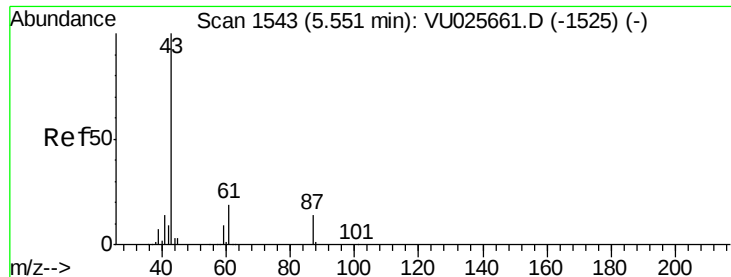
Abundance

Ion 116.80 (116.50 to 117.50): VU025726.D (-1322) (-)

Ion 118.80 (118.50 to 119.50): VU025726.D (-1322) (-)

Ion 120.80 (120.50 to 121.50): VU025726.D (-1322) (-)

Time-->



#43

Isopropyl Acetate

Concen: 19.66 ug/l

RT: 5.55 min Scan# 1543

Delta R.T. 0.00 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM3-072518

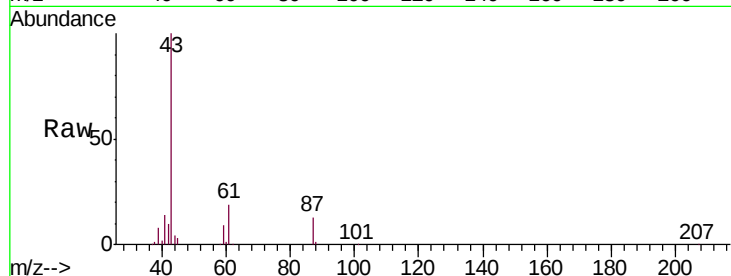
Tot Ion: 43 Resp: 113958

Ion Ratio Lower Upper

43 100

61 19.0 15.5 23.3

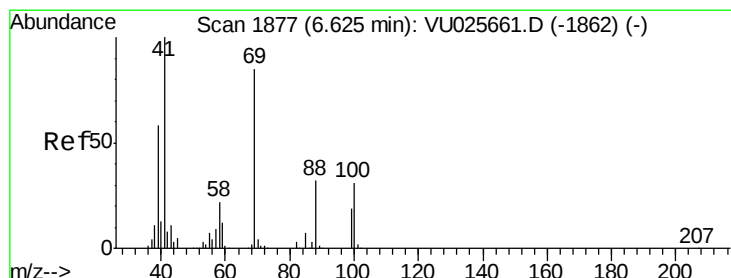
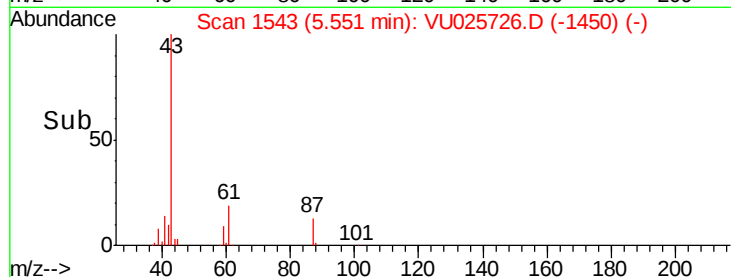
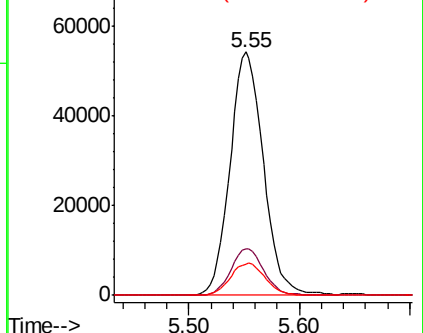
87 13.6 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VU025726.D (-1450) (-)

Ion 61.00 (60.70 to 61.70): VU025726.D (-1450) (-)

Ion 87.00 (86.70 to 87.70): VU025726.D (-1450) (-)



#48

Methyl methacrylate

Concen: 4.98 ug/l

RT: 6.71 min Scan# 1903

Delta R.T. 0.08 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

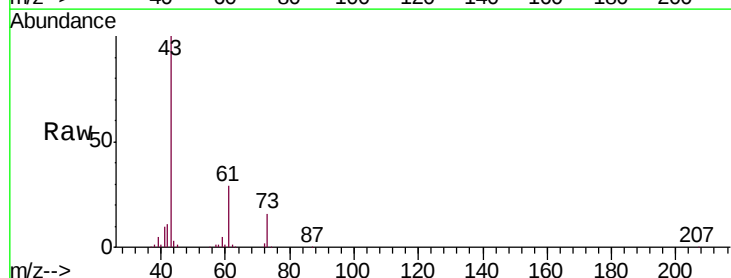
Tgt Ion: 41 Resp: 14160

Ion Ratio Lower Upper

41 100

69 0.0 65.0 97.4#

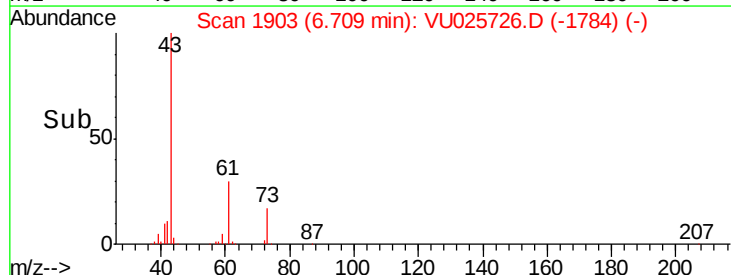
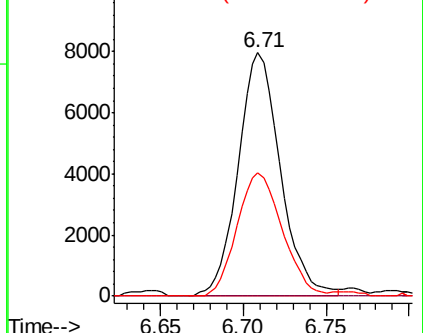
39 54.0 46.4 69.6

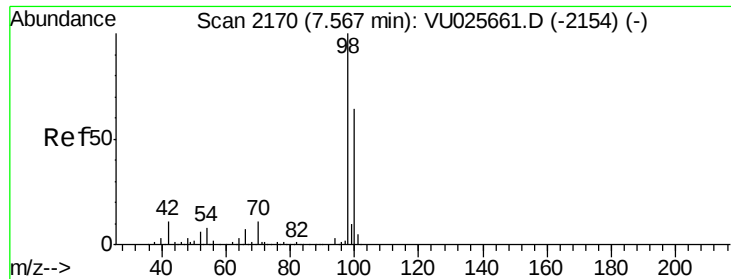


Abundance Ion 41.00 (40.70 to 41.70): VU025726.D (-1784) (-)

Ion 69.00 (68.70 to 69.70): VU025726.D (-1784) (-)

Ion 39.00 (38.70 to 39.70): VU025726.D (-1784) (-)

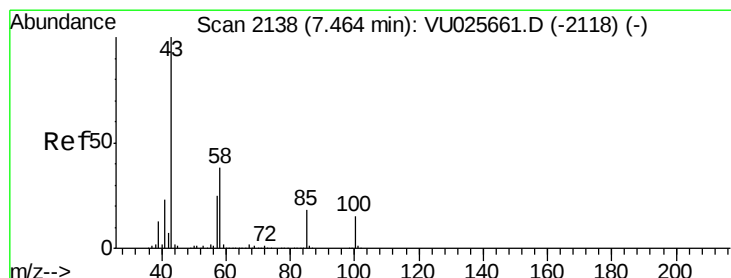
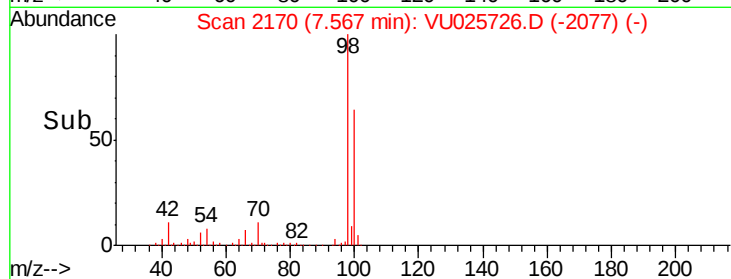
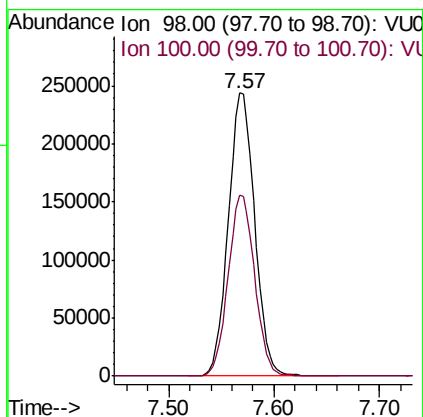
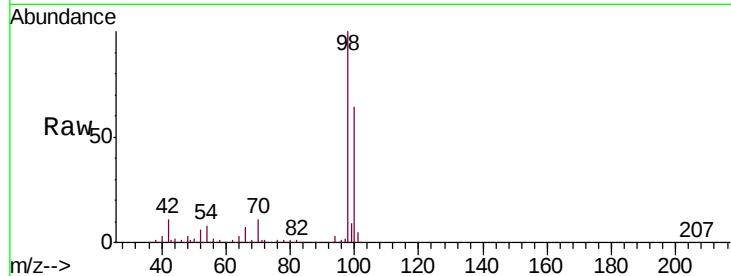




#50
Toluene-d8
Concen: 47.97 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025726.D
Acq: 30 Jul 2018 16:38

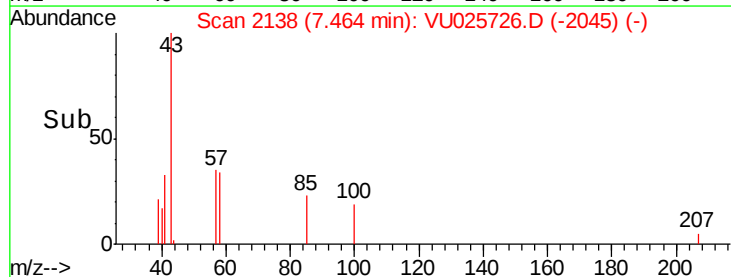
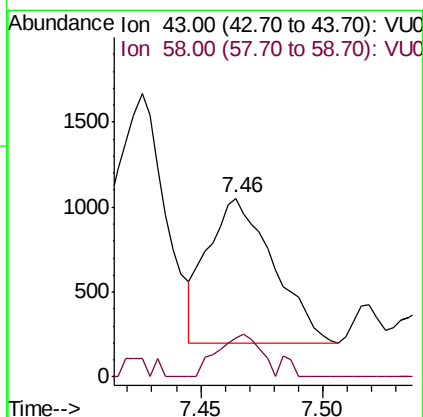
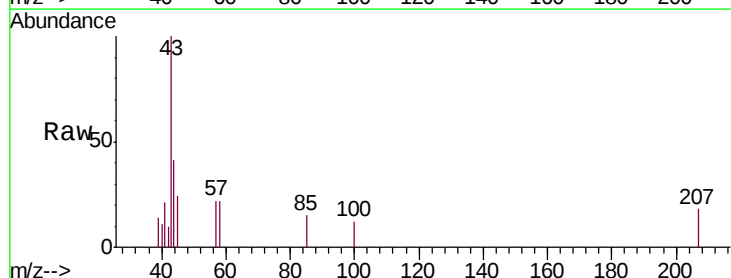
Instrument :
MSVOA_U
ClientSampleId :
SITE1-IDW-DRUM3-072518

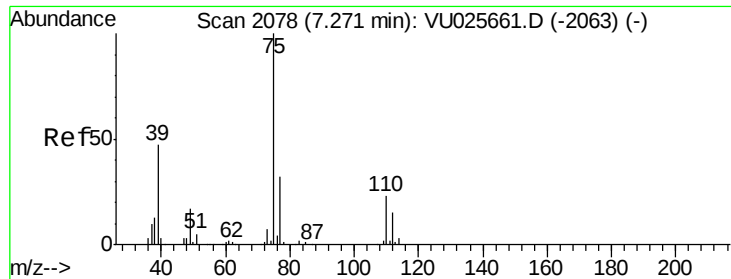
Tot Ion: 98 Resp: 422561
Ion Ratio Lower Upper
98 100
100 64.2 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.44 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025726.D
Acq: 30 Jul 2018 16:38

Tgt Ion: 43 Resp: 1589
Ion Ratio Lower Upper
43 100
58 19.3 31.0 46.4#

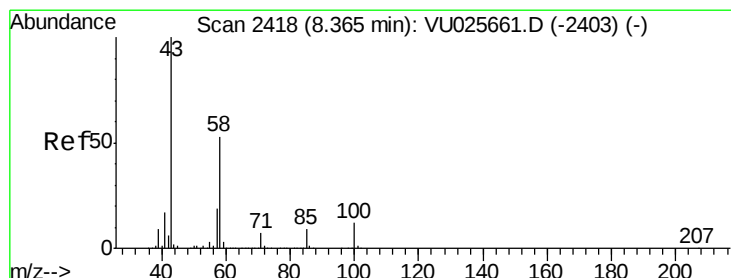
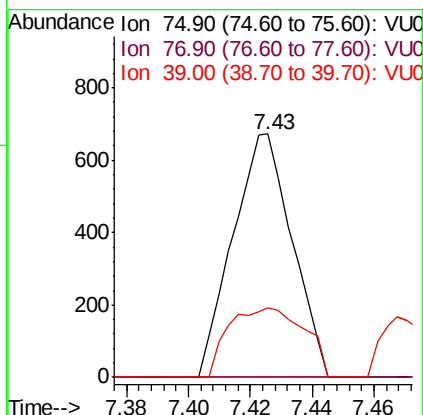
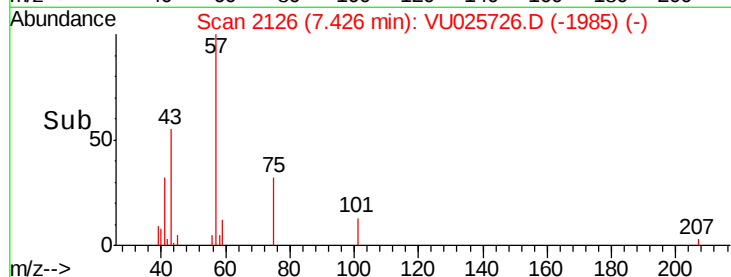
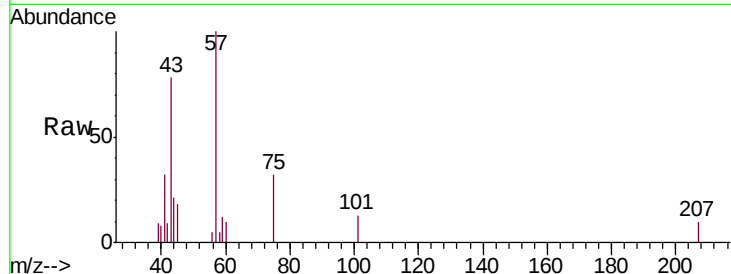




#54
 cis-1,3-Dichloropropene
 Concen: 0.22 ug/l
 RT: 7.43 min Scan# 2126
 Delta R.T. 0.15 min
 Lab File: VU025726.D
 Acq: 30 Jul 2018 16:38

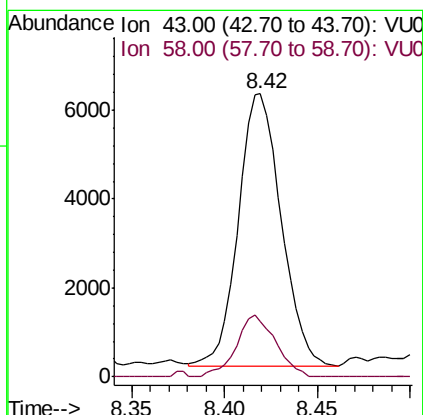
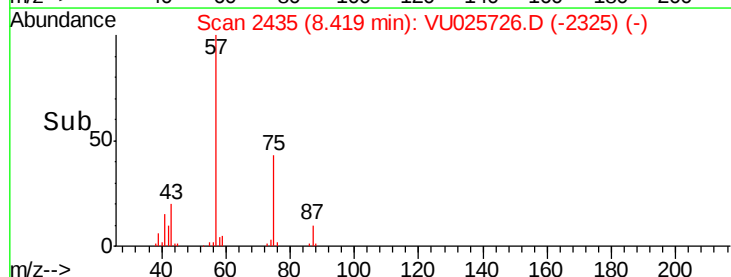
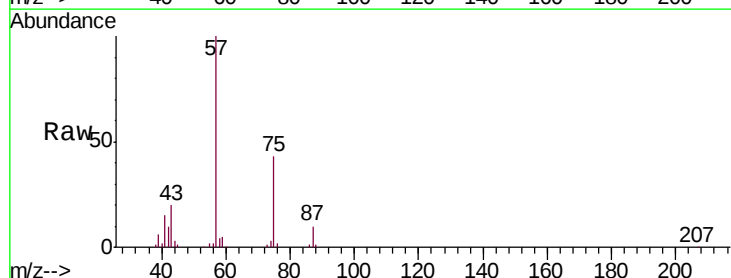
Instrument :
 MSVOA_U
 ClientSampleId :
 SITE1-IDW-DRUM3-072518

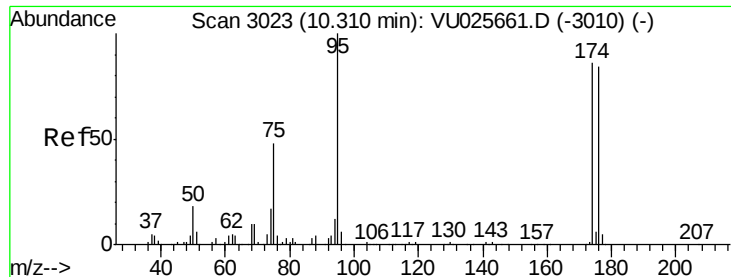
Tot Ion: 75 Resp: 895
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#
 39 28.7 40.0 60.0#



#59
 2-Hexanone
 Concen: 3.43 ug/l
 RT: 8.42 min Scan# 2435
 Delta R.T. 0.05 min
 Lab File: VU025726.D
 Acq: 30 Jul 2018 16:38

Tgt Ion: 43 Resp: 9753
 Ion Ratio Lower Upper
 43 100
 58 21.1 26.2 78.5#





#62

4-Bromofluorobenzene

Concen: 47.99 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM3-072518

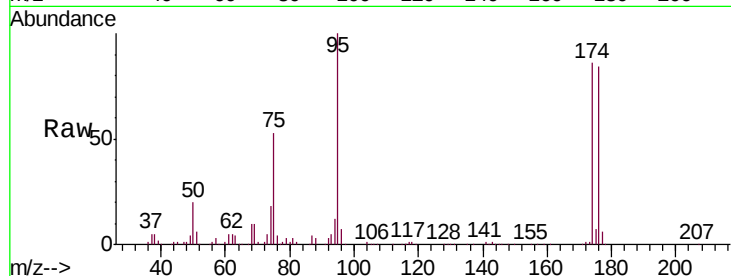
Tot Ion: 95 Resp: 164107

Ion Ratio Lower Upper

95 100

174 87.1 0.0 172.2

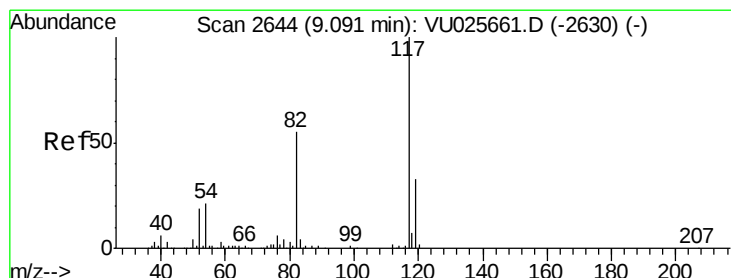
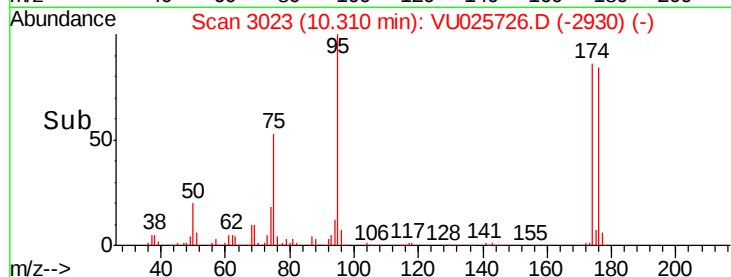
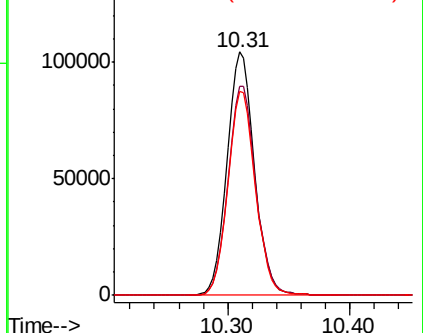
176 84.3 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025661.D (-3010) (-)

Ion 173.80 (173.50 to 174.50): VU025661.D (-3010) (-)

Ion 175.80 (175.50 to 176.50): VU025661.D (-3010) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

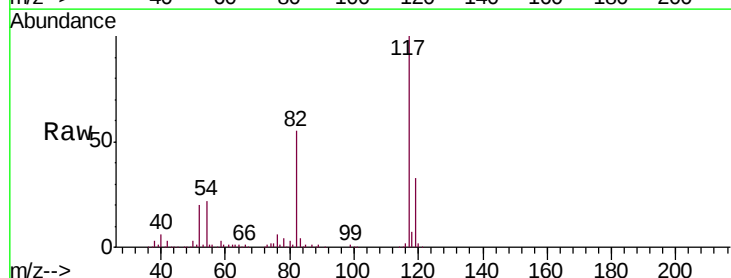
Tgt Ion: 117 Resp: 287350

Ion Ratio Lower Upper

117 100

82 55.0 46.0 69.0

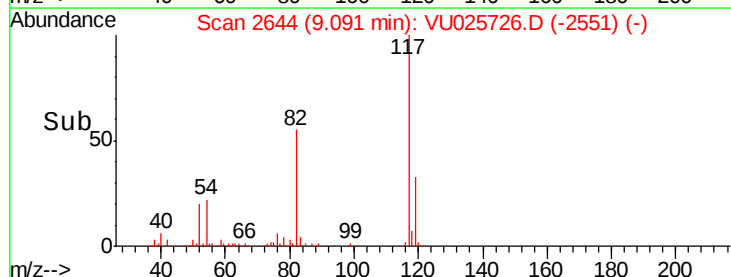
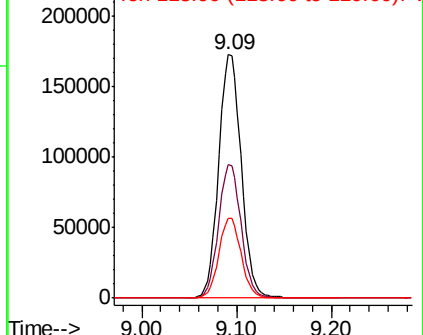
119 33.0 26.0 39.0

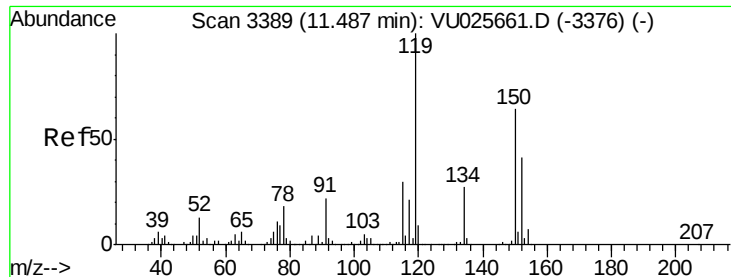


Abundance Ion 116.90 (116.60 to 117.60): VU025661.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU025661.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU025661.D (-2630) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM3-072518

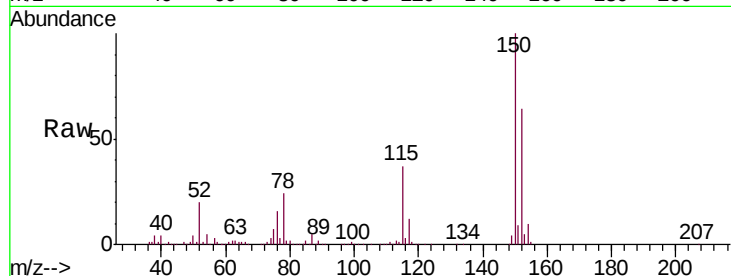
Tot Ion:152 Resp: 174638

Ion Ratio Lower Upper

152 100

115 57.5 40.1 120.3

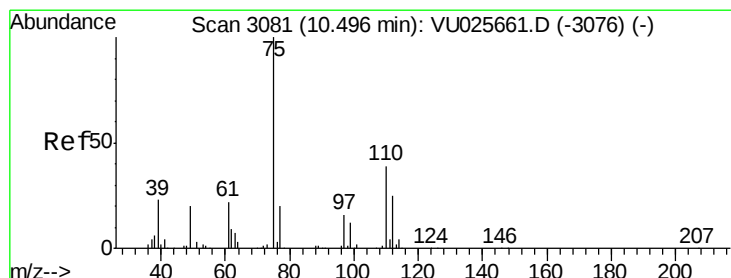
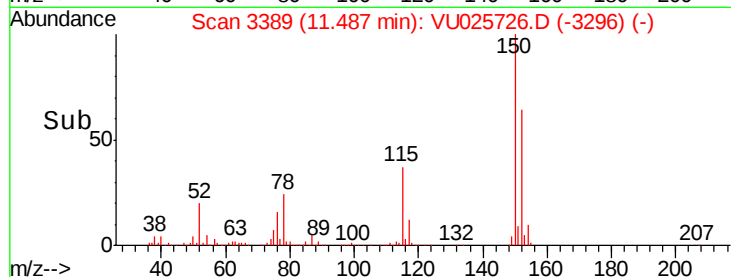
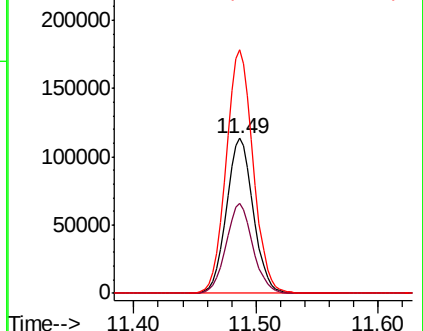
150 158.0 0.0 351.4



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: 22.79 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025726.D

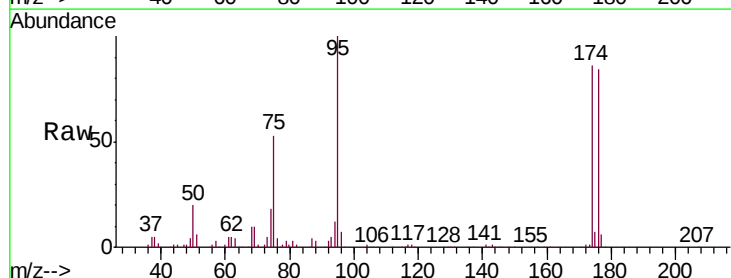
Acq: 30 Jul 2018 16:38

Tgt Ion: 75 Resp: 85931

Ion Ratio Lower Upper

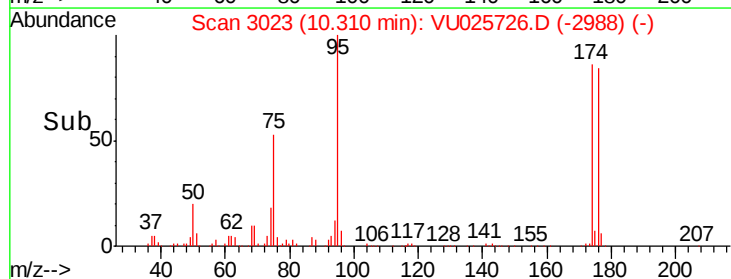
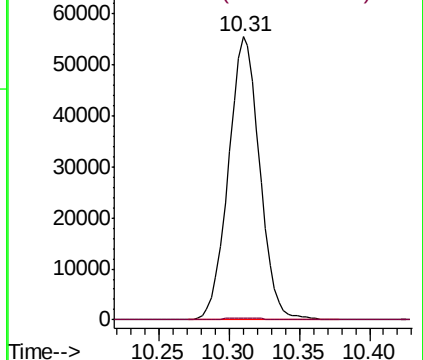
75 100

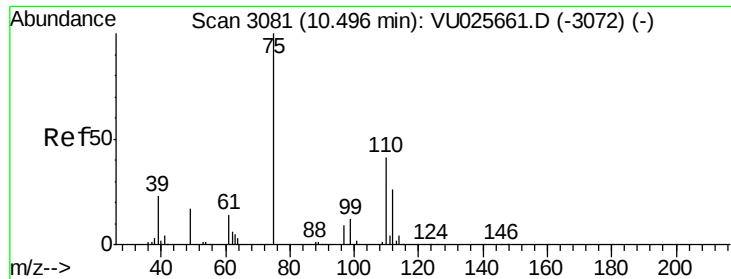
77 0.8 20.4 61.3#



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: 61.77 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM3-072518

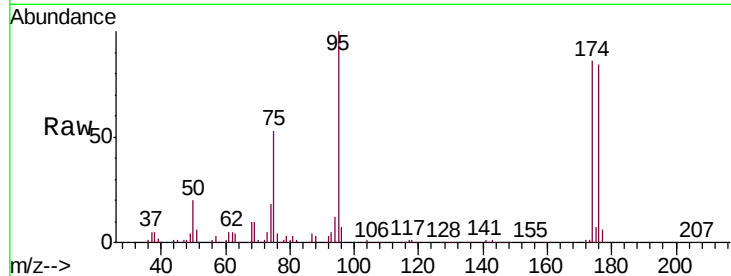
Tot Ion: 75 Resp: 85931

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

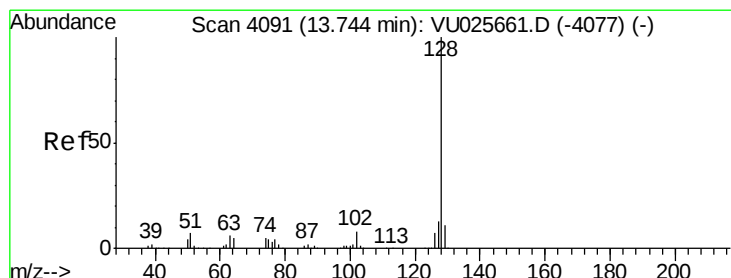
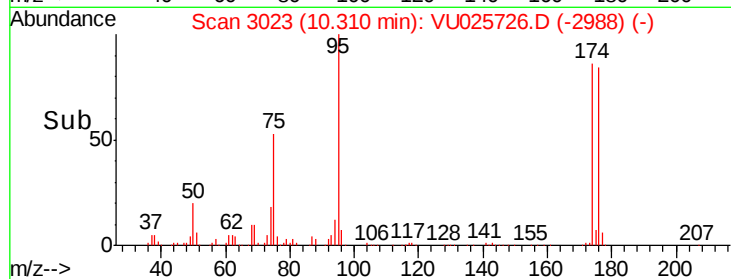
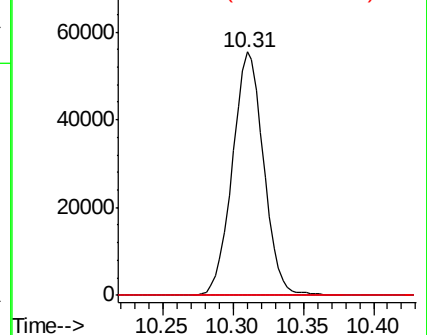
89 0.0 0.0 0.0



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



#95

Naphthalene

Concen: 1.37 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025726.D

Acq: 30 Jul 2018 16:38

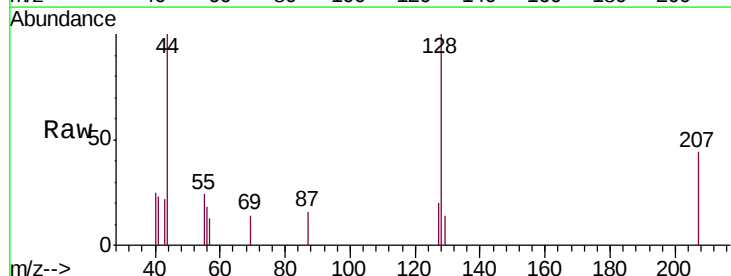
Tgt Ion: 128 Resp: 1531

Ion Ratio Lower Upper

128 100

127 5.4 10.5 15.7#

129 5.2 8.3 12.5#



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

