

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\
 Data File : VU025783.D
 Acq On : 01 Aug 2018 17:53
 Operator : MD/SY
 Sample : J4284-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 02 04:47:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 16:07:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	202811	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	318914	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	313988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	193770	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	153646	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	4.89	113	132065	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
50) Toluene-d8	7.57	98	467672	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
62) 4-Bromofluorobenzene	10.31	95	181623	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	

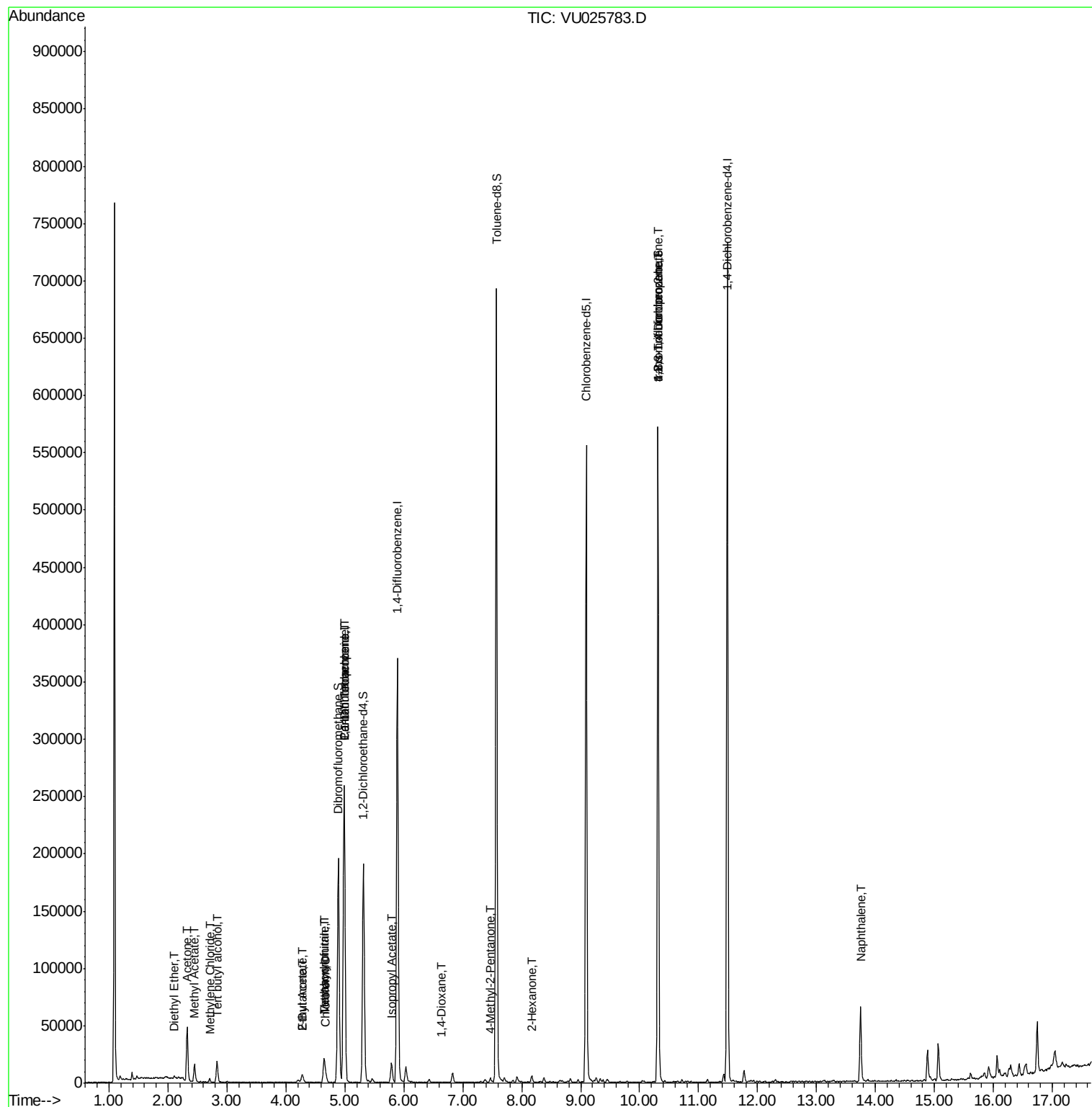
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.11	74	532	0.37	ug/l	76
11) Tert butyl alcohol	2.83	59	20515	29.65	ug/l	98
13) Acrolein	2.19	56	41	Below Cal	#	1
16) Acetone	2.33	43	50324	32.66	ug/l	97
18) Methyl Acetate	2.45	43	3585	0.97	ug/l	# 52
20) Methylene Chloride	2.71	84	1299	0.48	ug/l	# 85
25) 2-Butanone	4.27	43	11725	5.59	ug/l	# 89
29) Tetrahydrofuran	4.65	42	16729	13.31	ug/l	96
30) Chloroform	4.68	83	3250	0.67	ug/l	87
31) Cyclohexane	4.99	56	3732	Below Cal	#	17
36) 1,1-Dichloropropene	4.99	75	13788	3.70	ug/l	# 49
37) Ethyl Acetate	4.27	43	11725	3.03	ug/l	# 69
38) Carbon Tetrachloride	4.99	117	19586	4.64	ug/l	# 17
41) Methacrylonitrile	4.64	41	9590	4.47	ug/l	# 45
43) Isopropyl Acetate	5.79	43	21850	3.42	ug/l	# 62
49) 1,4-Dioxane	6.63	88	105	1.38	ug/l	# 22
51) 4-Methyl-2-Pentanone	7.47	43	2625	0.66	ug/l	98
59) 2-Hexanone	8.17	43	3989	1.27	ug/l	75
76) 1,2,3-Trichloropropane	10.31	75	93235	21.84	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	93235	54.76	ug/l	# 100
95) Naphthalene	13.75	128	56453	5.08	ug/l	99

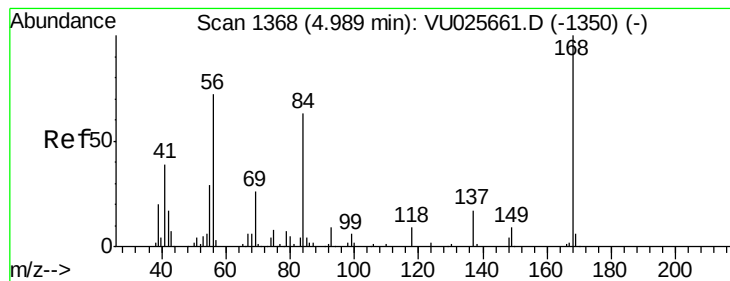
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025783.D

Acq: 01 Aug 2018 17:53

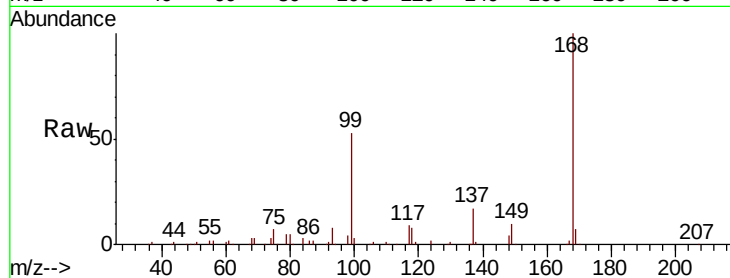
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 202811

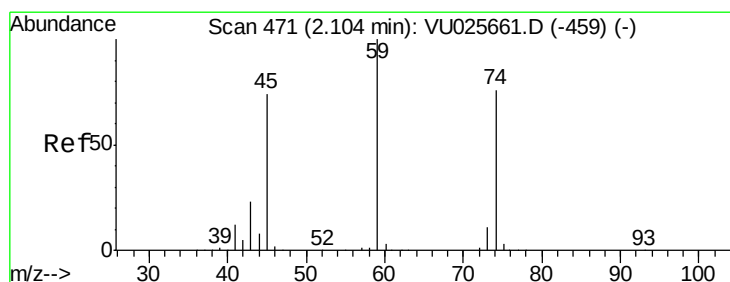
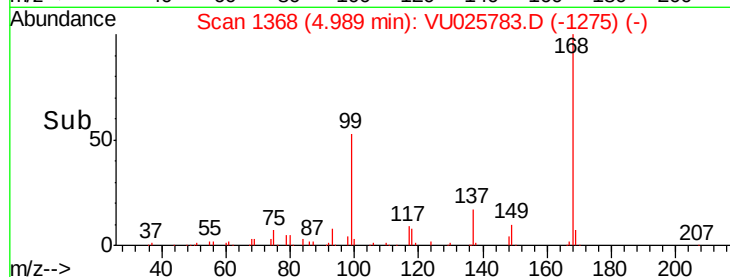
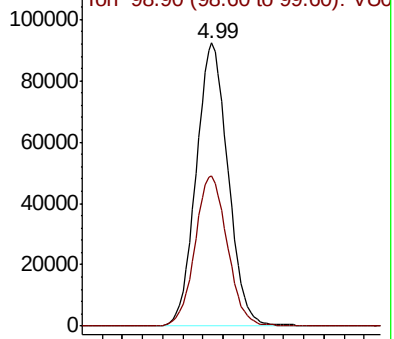
Ion Ratio Lower Upper

168 100

99 52.9 42.8 64.2



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



#8

Diethyl Ether

Concen: 0.37 ug/l

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU025783.D

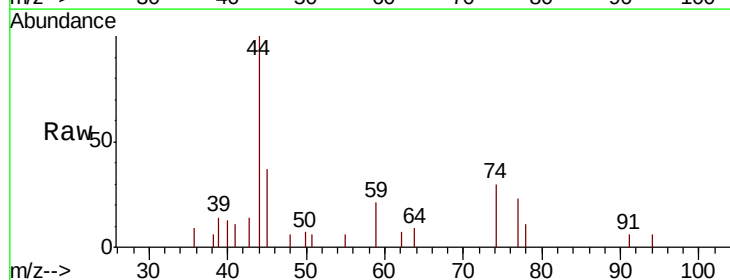
Acq: 01 Aug 2018 17:53

Tgt Ion: 74 Resp: 532

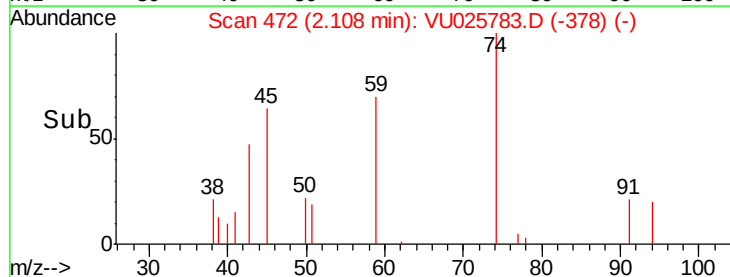
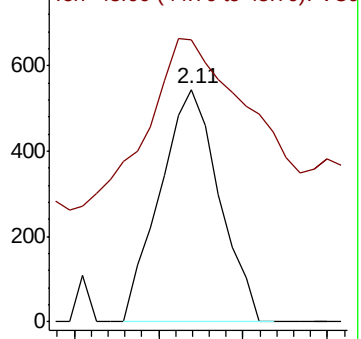
Ion Ratio Lower Upper

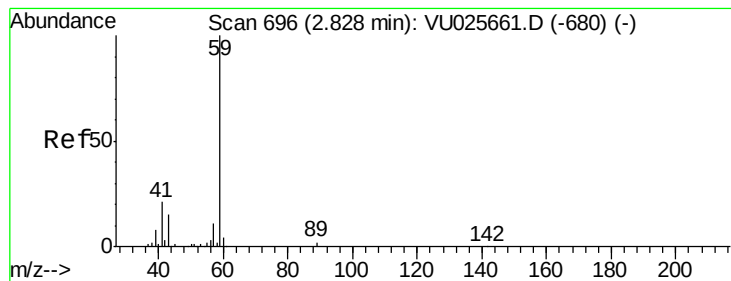
74 100

45 120.5 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VU025661.D (-459) (-)



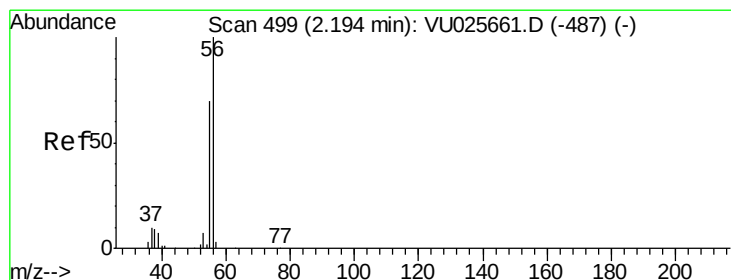
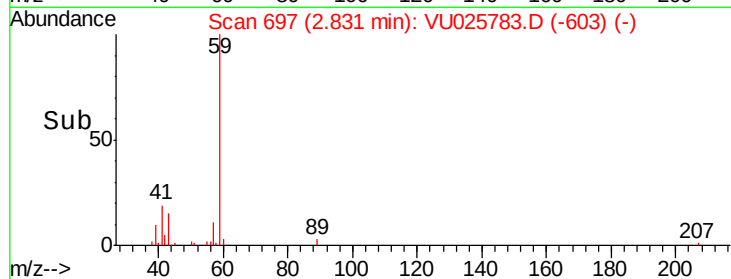
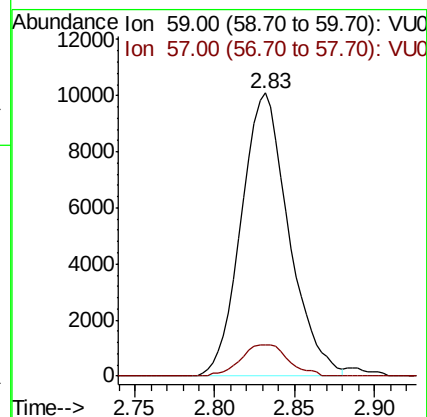
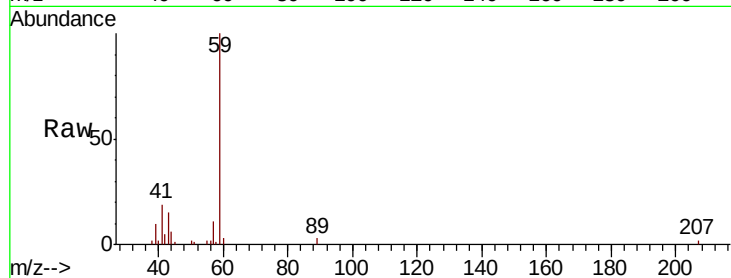


#11

Tert butyl alcohol
 Concen: 29.65 ug/l
 RT: 2.83 min Scan# 697
 Delta R.T. 0.00 min
 Lab File: VU025783.D
 Acq: 01 Aug 2018 17:53

Instrument :
 MSVOA_U
 ClientSampleId :

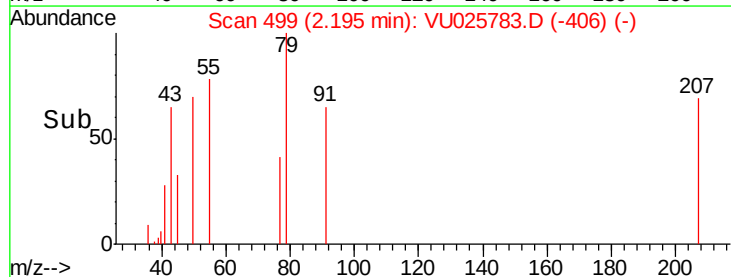
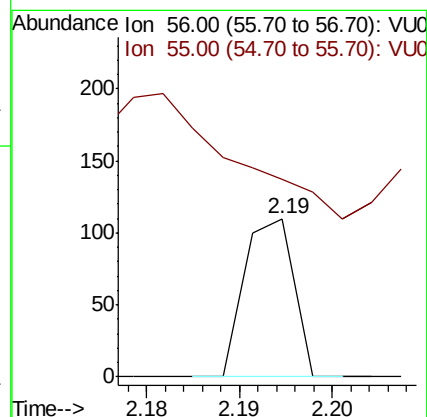
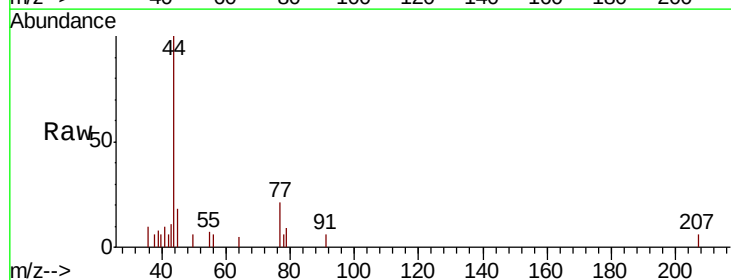
Tot Ion: 59 Resp: 20515
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.2 12.2

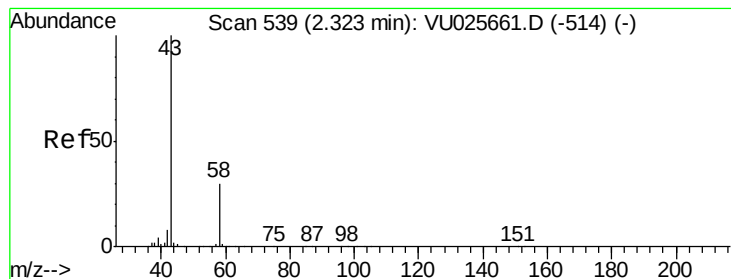


#13

Acrolein
 Concen: Below Cal
 RT: 2.19 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: VU025783.D
 Acq: 01 Aug 2018 17:53

Tgt Ion: 56 Resp: 41
 Ion Ratio Lower Upper
 56 100
 55 1051.2 57.2 85.8#





#16

Acetone

Concen: 32.66 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

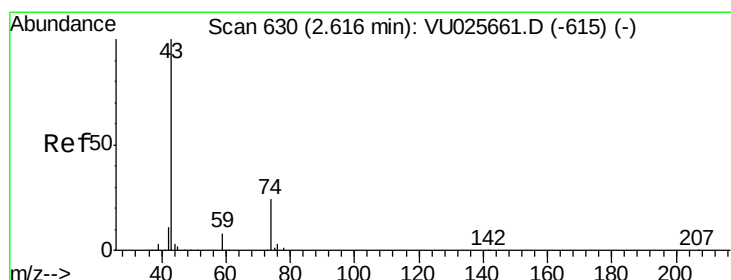
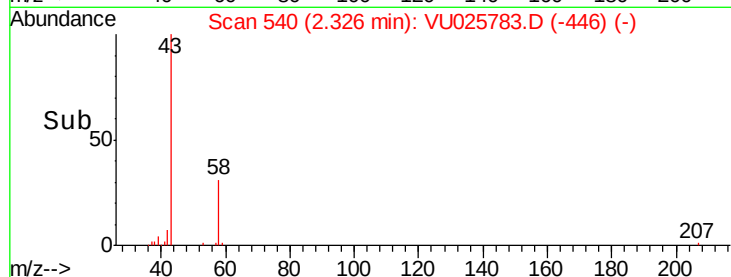
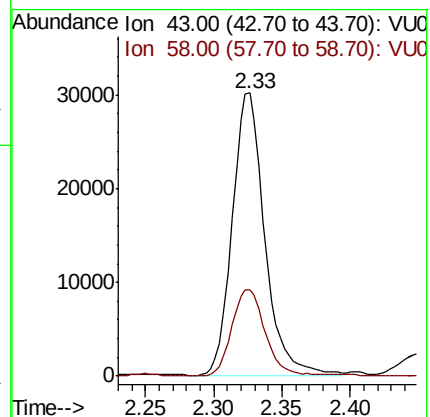
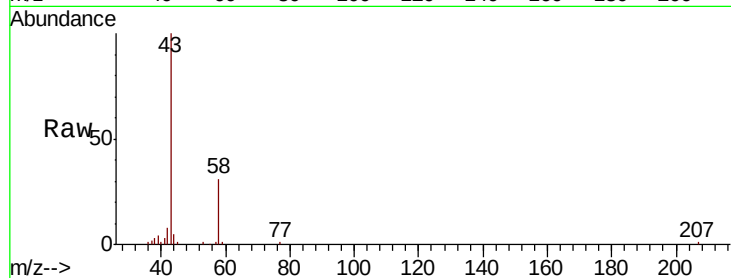
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 50324

Ion Ratio Lower Upper

43 100

58 30.7 23.1 34.7



#18

Methyl Acetate

Concen: 0.97 ug/l

RT: 2.45 min Scan# 578

Delta R.T. -0.17 min

Lab File: VU025783.D

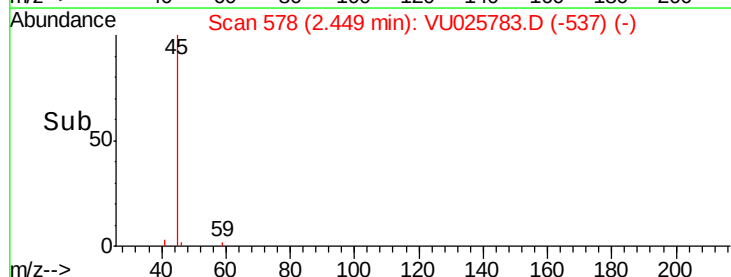
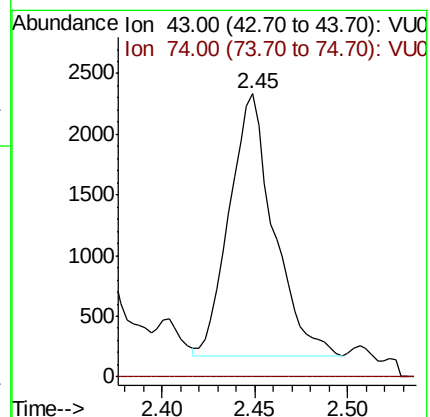
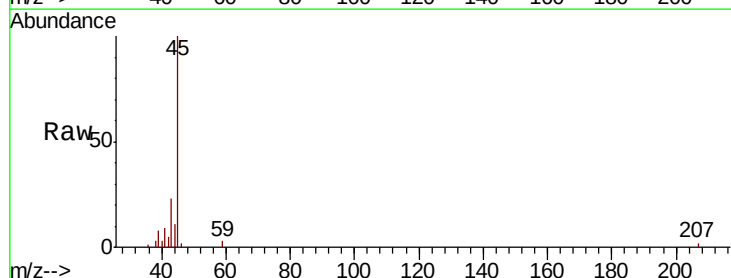
Acq: 01 Aug 2018 17:53

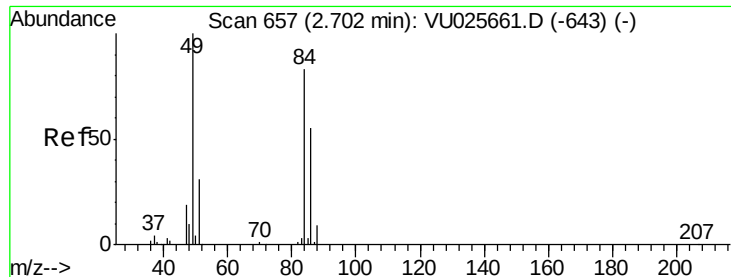
Tgt Ion: 43 Resp: 3585

Ion Ratio Lower Upper

43 100

74 0.0 18.5 27.7#

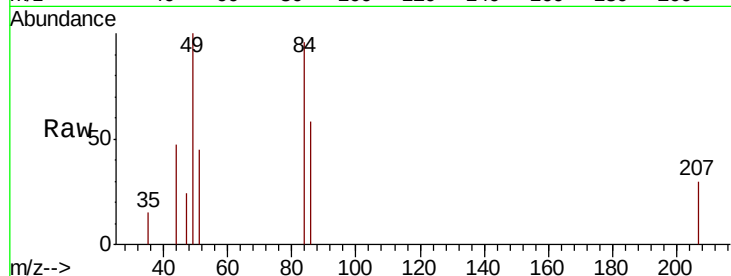




#20
Methvlene Chloride
Concen: 0.48 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.01 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	84	Resp	1299
Ion	Ratio	Lower	Upper
84	100		
49	103.9	101.8	152.6
51	46.4	30.8	46.2#
86	60.5	51.9	77.9



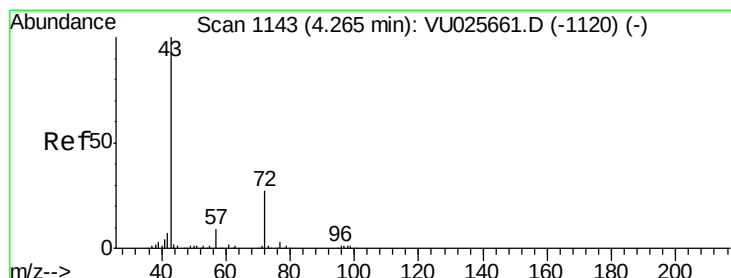
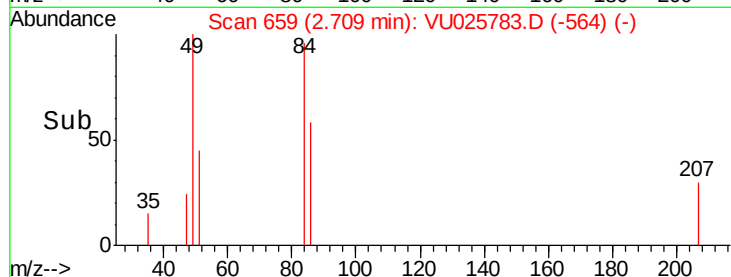
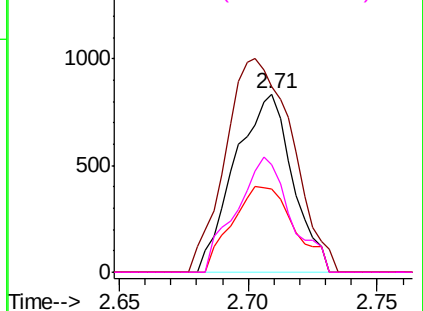
Abundance

Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

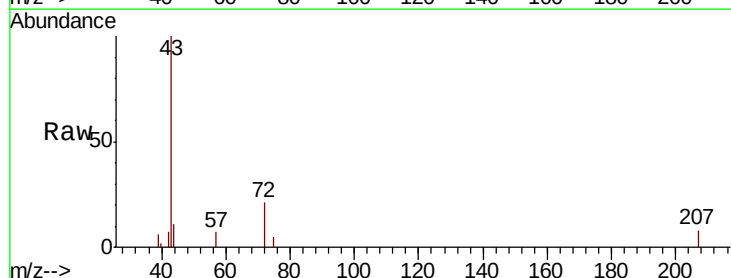
Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25
2-Butanone
Concen: 5.59 ug/l
RT: 4.27 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

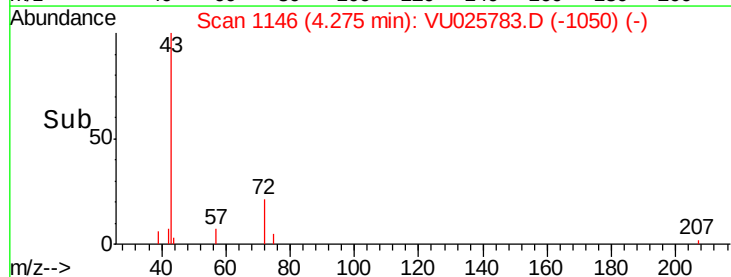
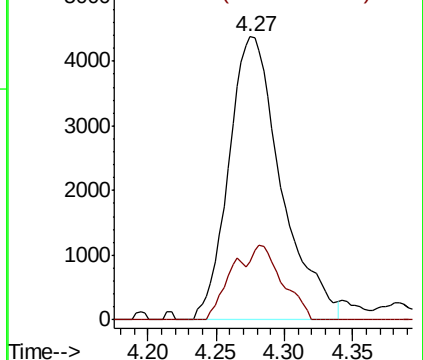
Tgt Ion	43	Resp	11725
Ion	Ratio	Lower	Upper
43	100		
72	20.7	21.0	31.4#

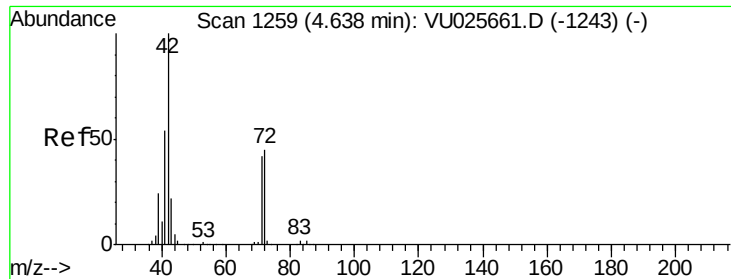


Abundance

Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

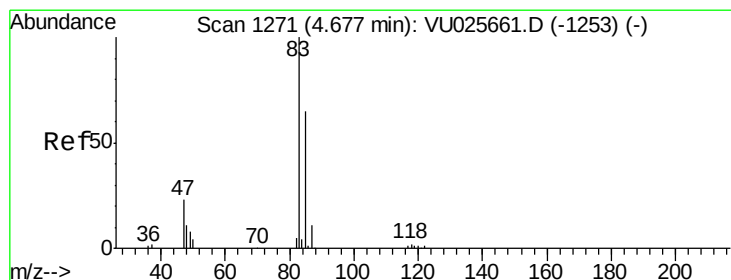
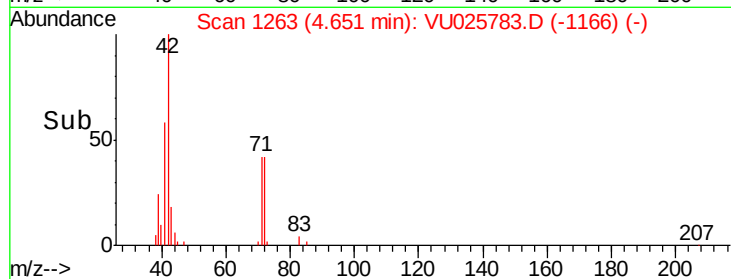
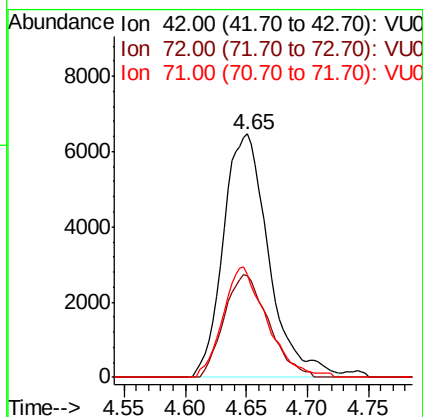
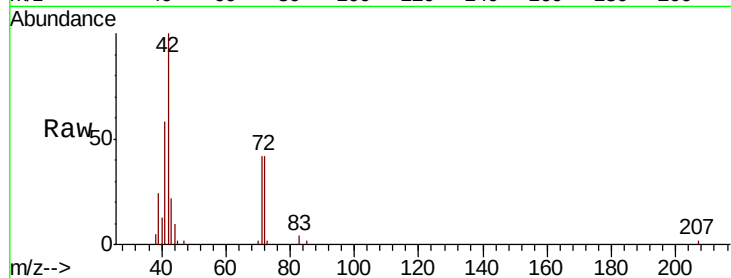




#29
Tetrahydrofuran
Concen: 13.31 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

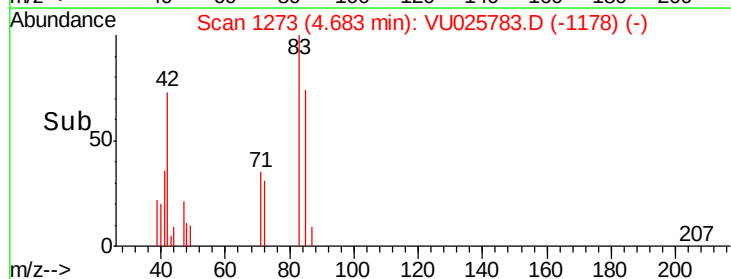
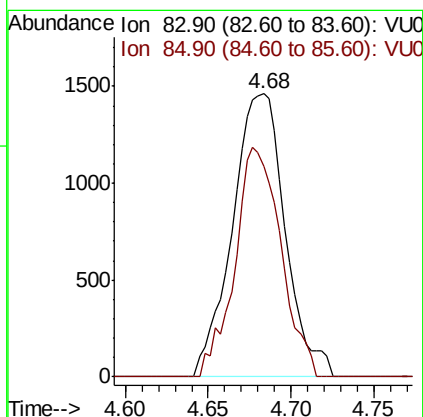
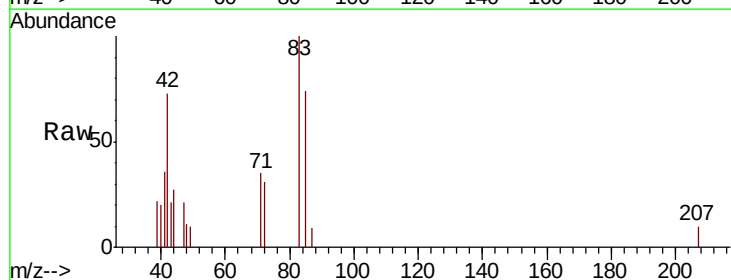
Instrument :
MSVOA_U
ClientSampleId :

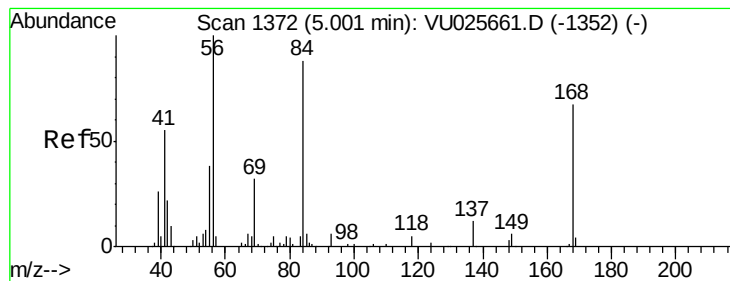
Tot Ion: 42 Resp: 16729
Ion Ratio Lower Upper
42 100
72 41.2 36.7 55.1
71 43.4 33.9 50.9



#30
Chloroform
Concen: 0.67 ug/l
RT: 4.68 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Tgt Ion: 83 Resp: 3250
Ion Ratio Lower Upper
83 100
85 74.5 51.5 77.3





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

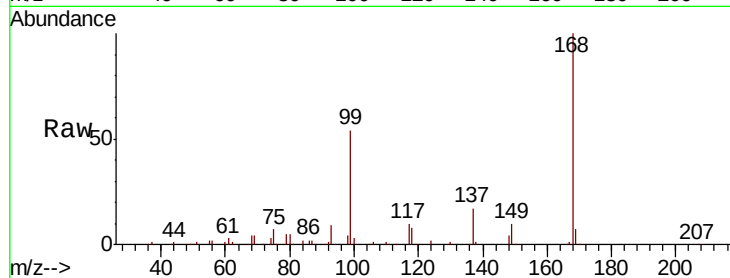
Tot Ion: 56 Resp: 3732

Ion Ratio Lower Upper

56 100

69 163.6 26.8 40.2#

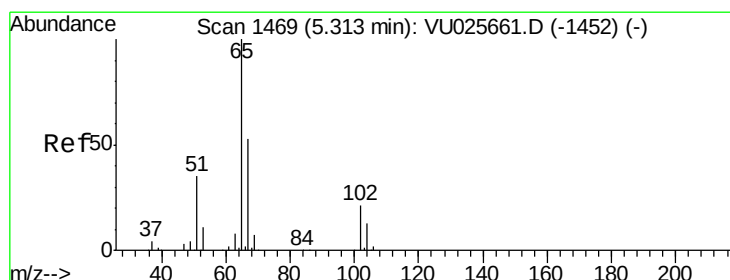
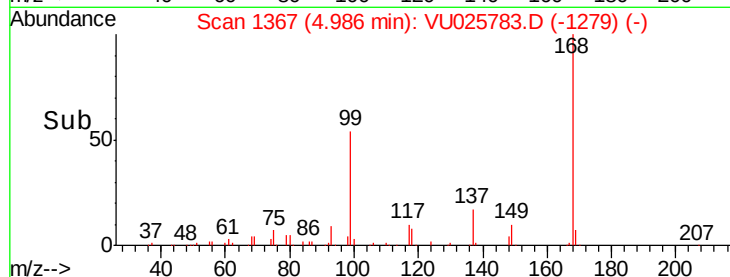
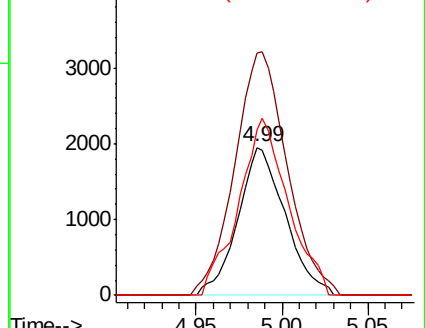
84 112.2 69.7 104.5#



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: 48.62 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025783.D

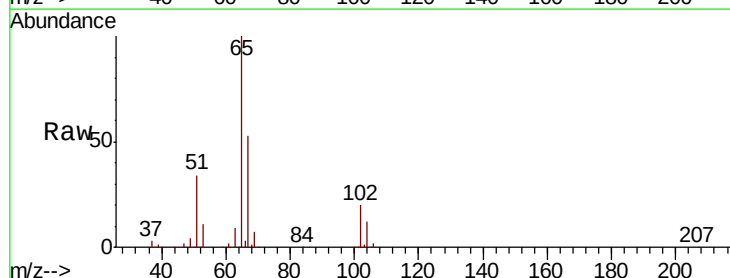
Acq: 01 Aug 2018 17:53

Tgt Ion: 65 Resp: 153646

Ion Ratio Lower Upper

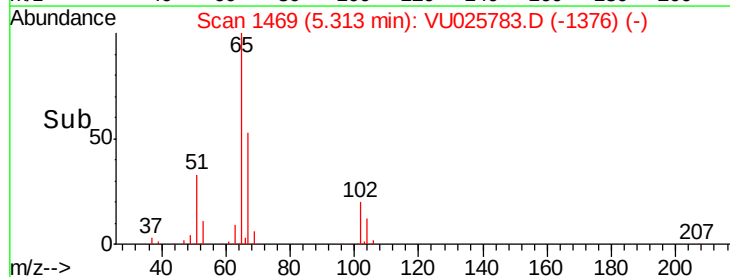
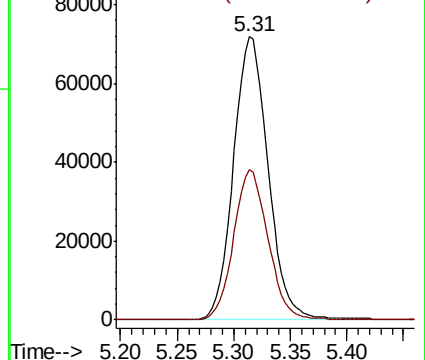
65 100

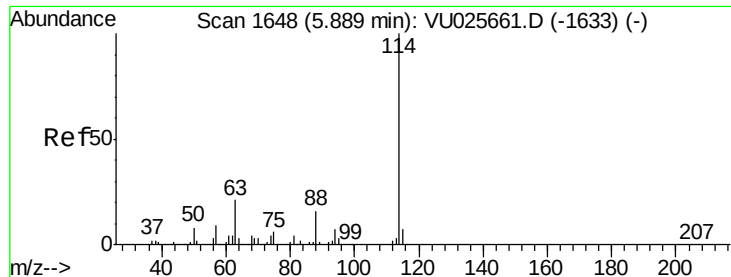
67 52.6 0.0 103.6



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: VU025783.D

Acq: 01 Aug 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

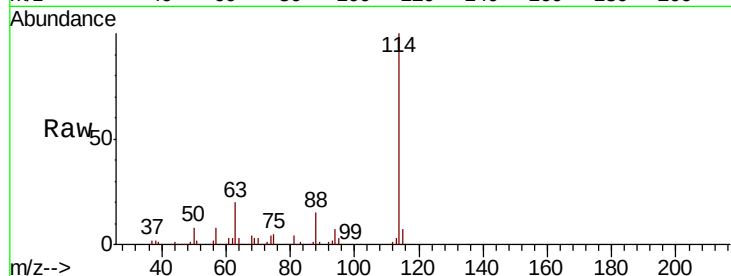
Tot Ion:114 Resp: 318914

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.6

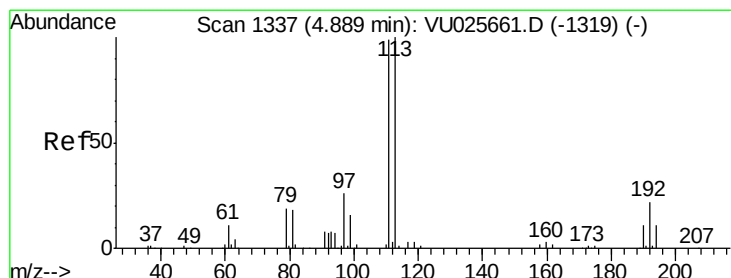
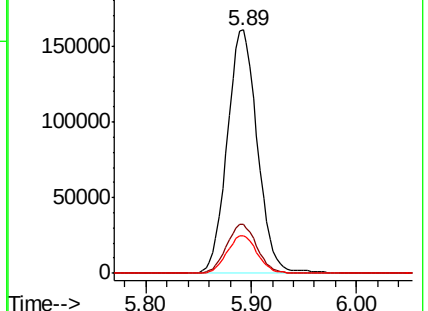
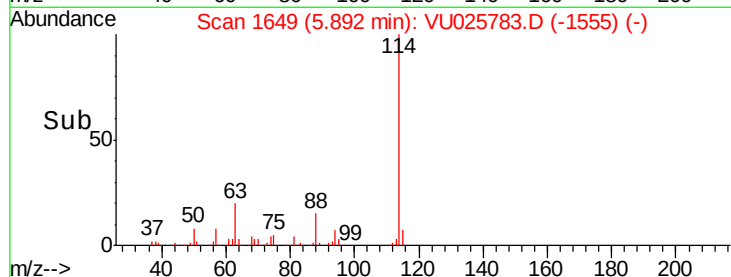
88 15.4 0.0 32.4



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: 47.61 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

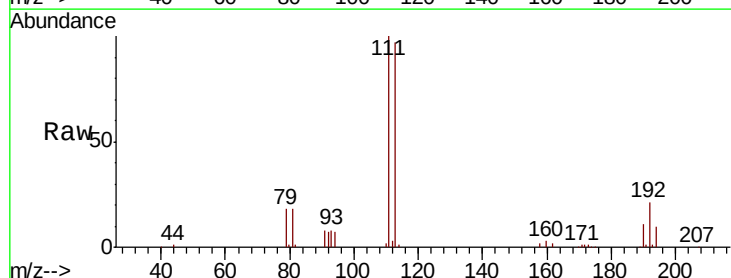
Tgt Ion:113 Resp: 132065

Ion Ratio Lower Upper

113 100

111 101.9 81.7 122.5

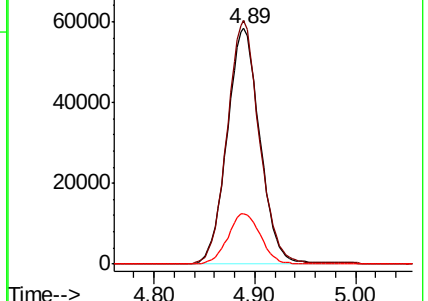
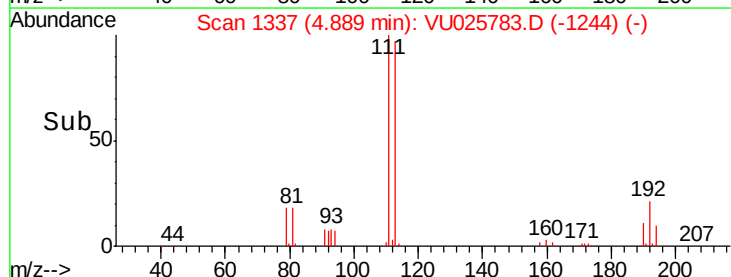
192 21.4 17.1 25.7

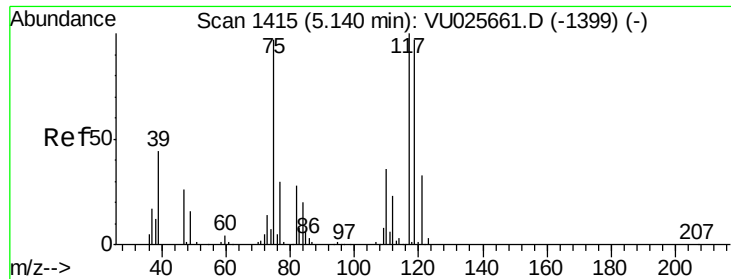


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

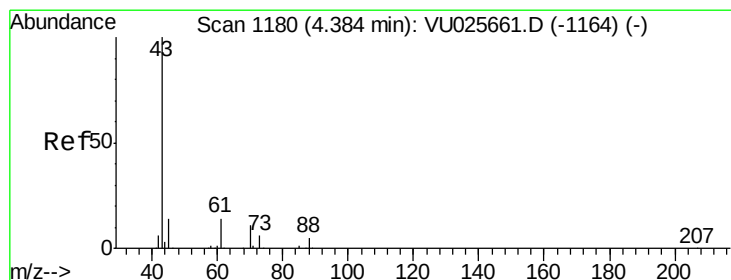
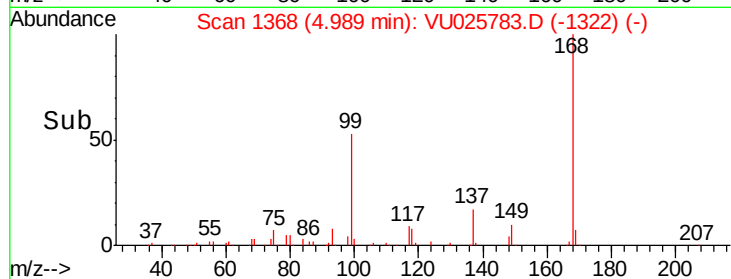
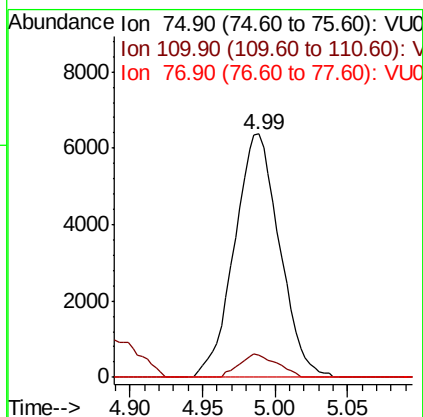
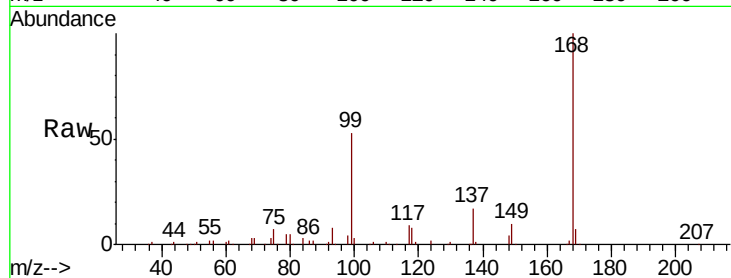




#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025783.D
 Acq: 01 Aug 2018 17:53

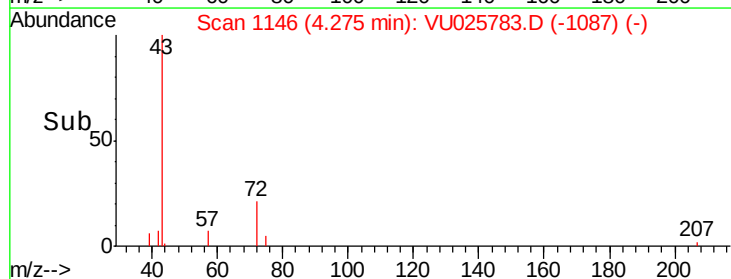
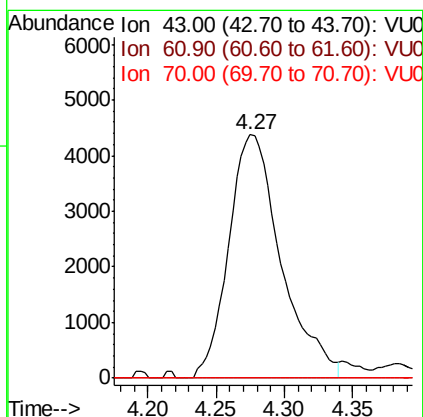
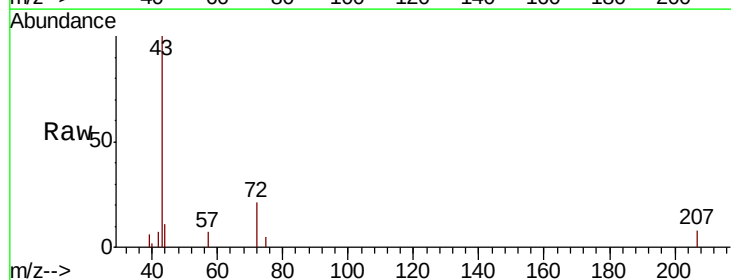
Instrument :
 MSVOA_U
 ClientSampleId :

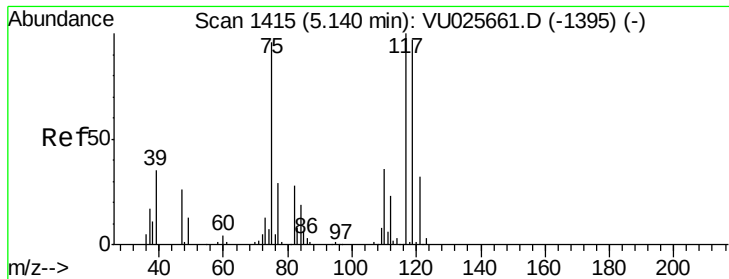
Tot Ion	75	110	77	Resp	Lower	Upper
13788	100	8.0	0.0		17.6	52.9#
					24.4	36.6#



#37
 Ethyl Acetate
 Concen: 3.03 ug/l
 RT: 4.27 min Scan# 1146
 Delta R.T. -0.11 min
 Lab File: VU025783.D
 Acq: 01 Aug 2018 17:53

Tgt Ion	43	61	70	Resp	Lower	Upper
11725	100	0.0	0.0		10.7	16.1#
					8.4	12.6#





#38

Carbon Tetrachloride

Concen: 4.64 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

Instrument :
MSVOA_U
ClientSampled :

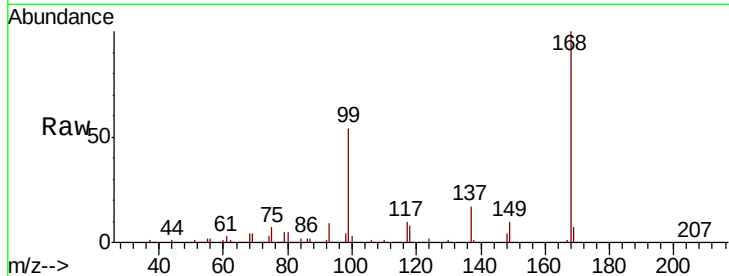
Tot Ion:117 Resp: 19586

Ion Ratio Lower Upper

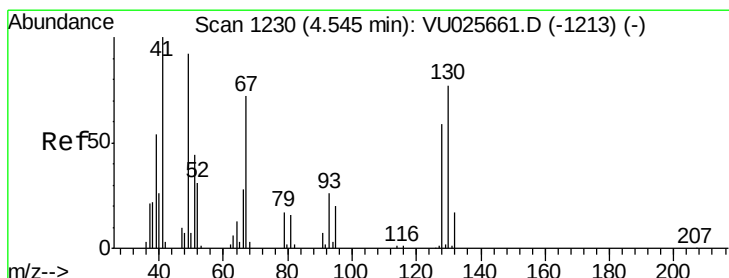
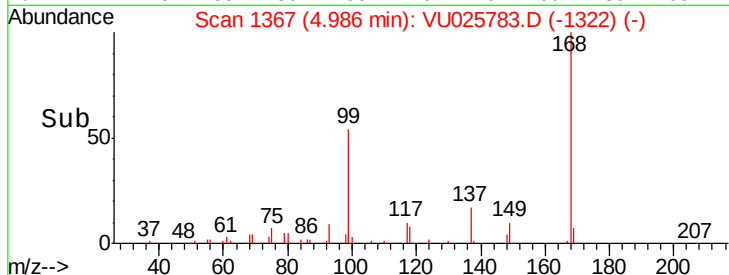
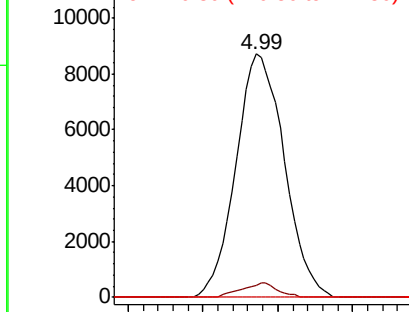
117 100

119 5.1 75.7 113.5#

121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 4.47 ug/l

RT: 4.64 min Scan# 1261

Delta R.T. 0.10 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

Tgt Ion: 41 Resp: 9590

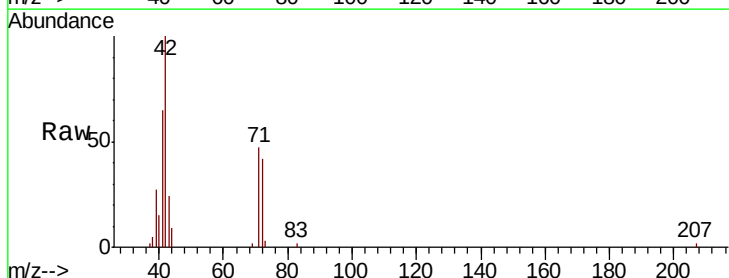
Ion Ratio Lower Upper

41 100

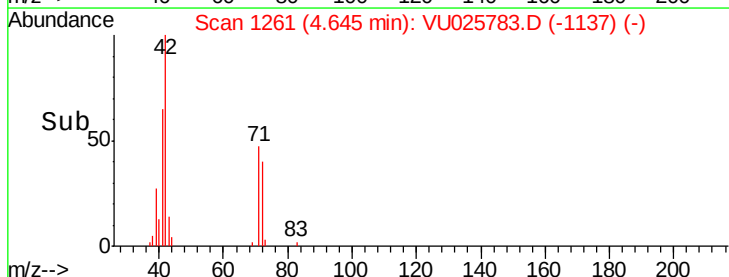
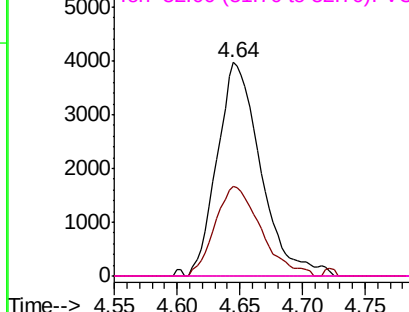
39 44.1 44.4 66.6#

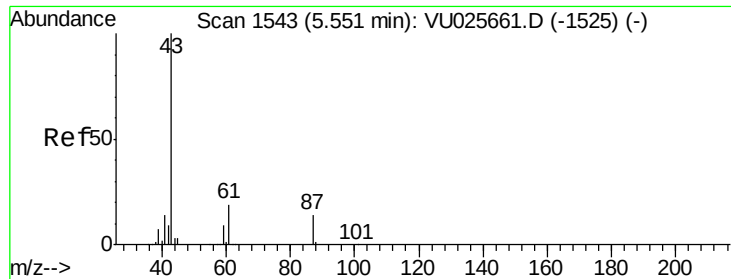
67 0.0 56.0 84.0#

52 0.0 24.6 36.8#



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#43

Isopropyl Acetate

Concen: 3.42 ug/l

RT: 5.79 min Scan# 1617

Delta R.T. 0.24 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

Instrument :

MSVOA_U

ClientSampled :

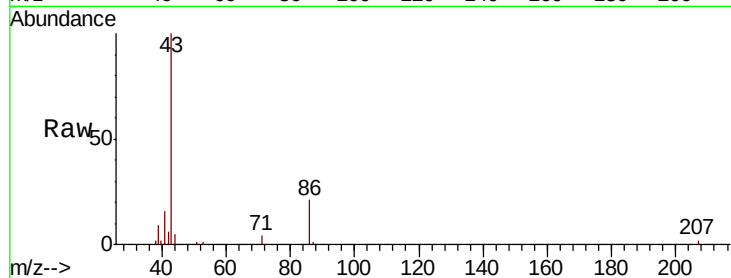
Tot Ion: 43 Resp: 21850

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

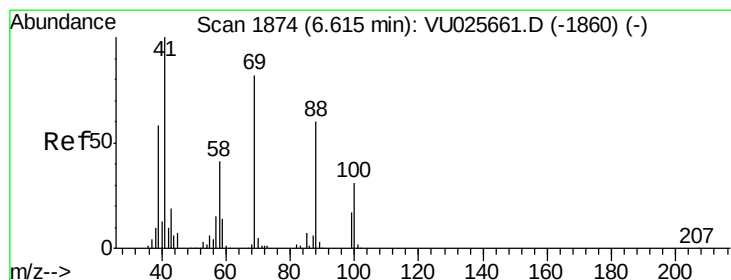
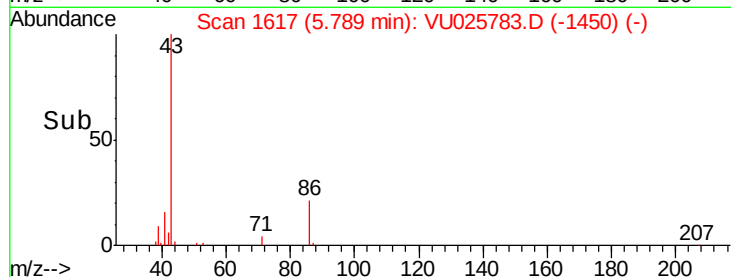
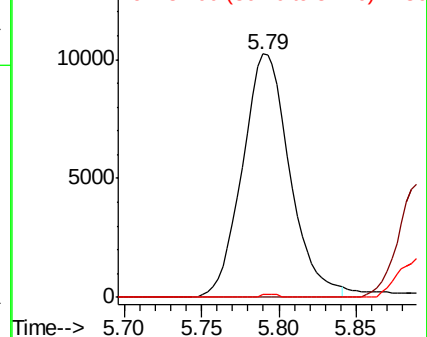
87 0.5 10.6 16.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#49

1,4-Dioxane

Concen: 1.38 ug/l

RT: 6.63 min Scan# 1880

Delta R.T. 0.02 min

Lab File: VU025783.D

Acq: 01 Aug 2018 17:53

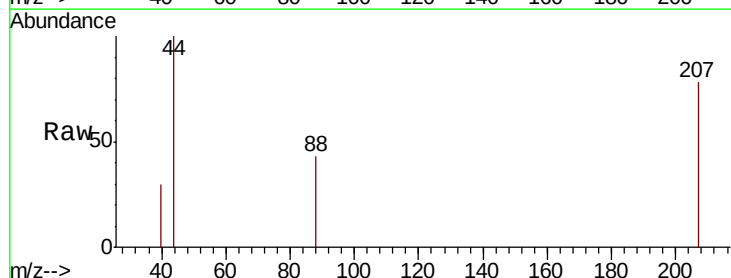
Tgt Ion: 88 Resp: 105

Ion Ratio Lower Upper

88 100

43 0.0 27.3 40.9#

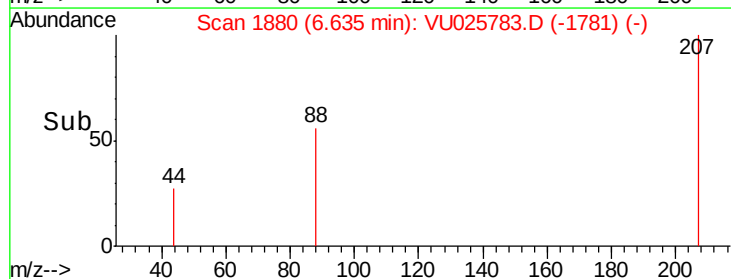
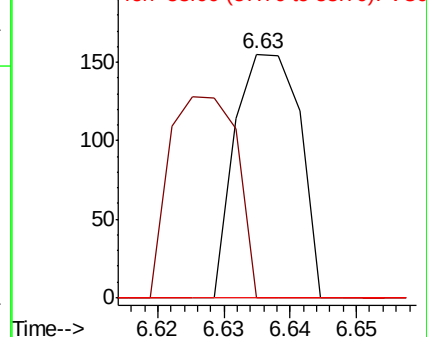
58 0.0 57.6 86.4#

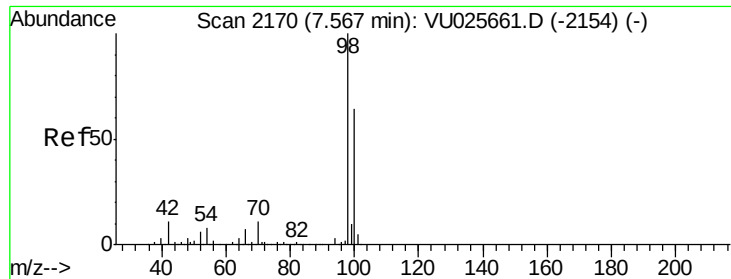


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

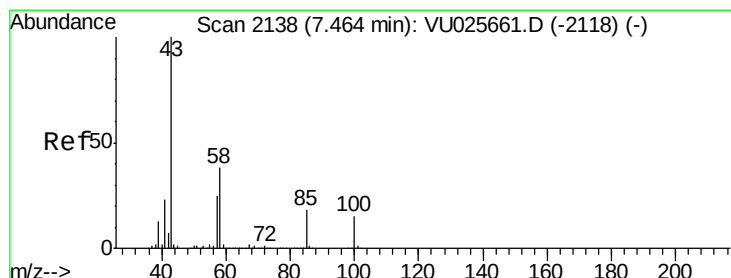
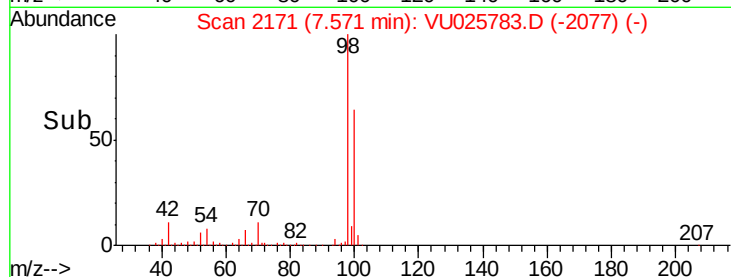
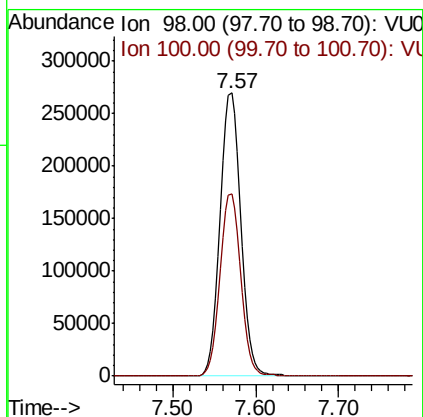
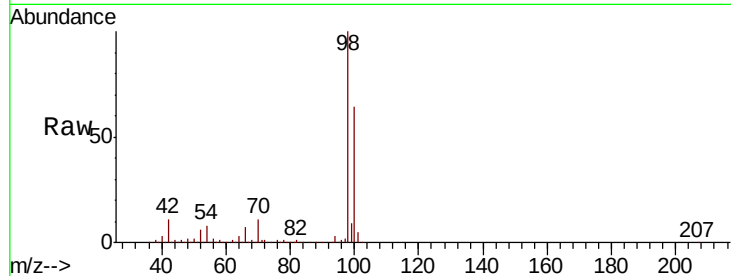




#50
Toluene-d8
Concen: 48.18 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

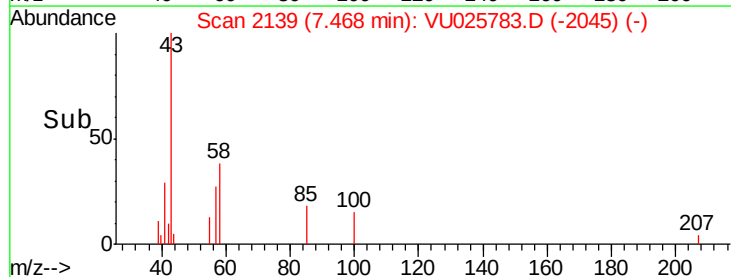
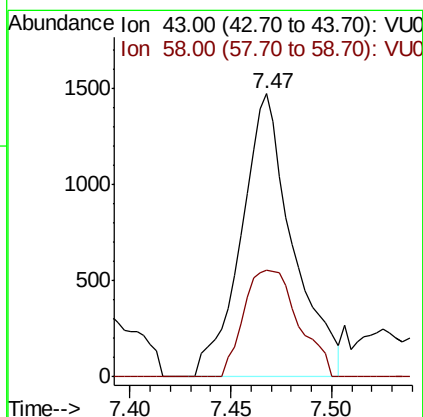
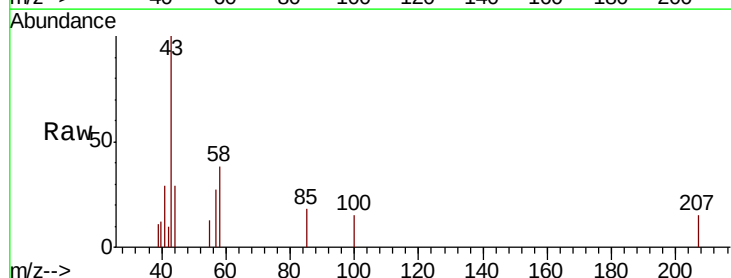
Instrument :
MSVOA_U
ClientSampleId :

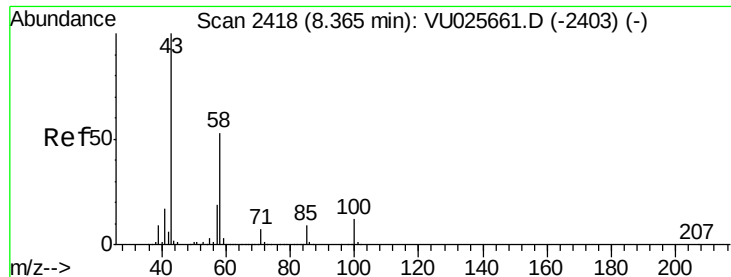
Tot Ion: 98 Resp: 467672
Ion Ratio Lower Upper
98 100
100 64.2 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.66 ug/l
RT: 7.47 min Scan# 2139
Delta R.T. 0.00 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Tgt Ion: 43 Resp: 2625
Ion Ratio Lower Upper
43 100
58 40.0 31.0 46.4

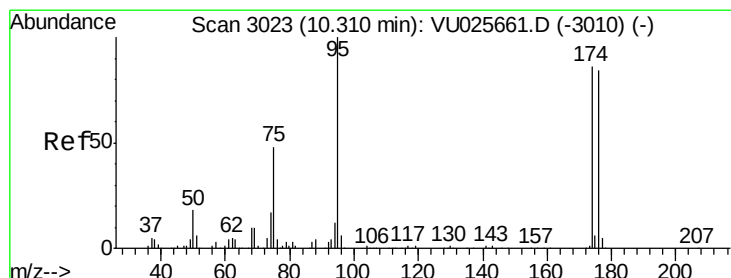
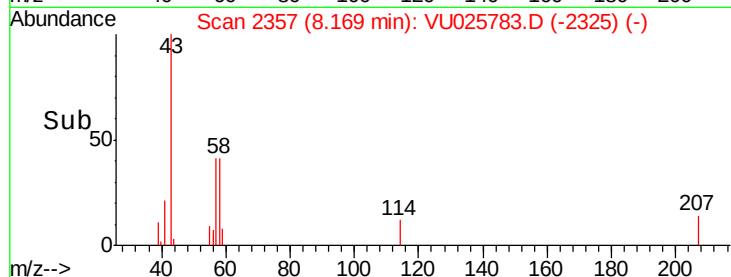
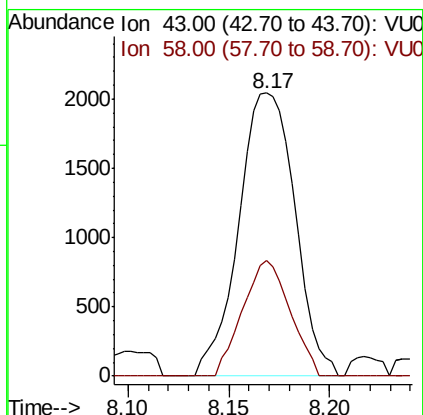
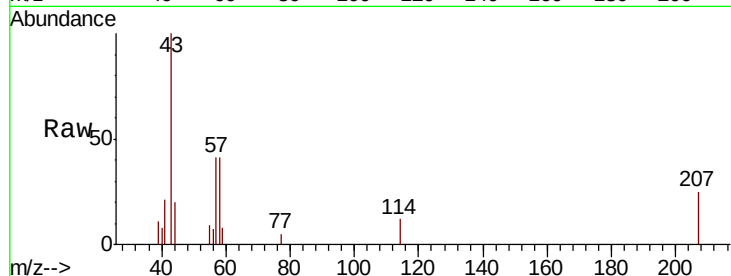




#59
2-Hexanone
Concen: 1.27 ug/l
RT: 8.17 min Scan# 2357
Delta R.T. -0.20 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

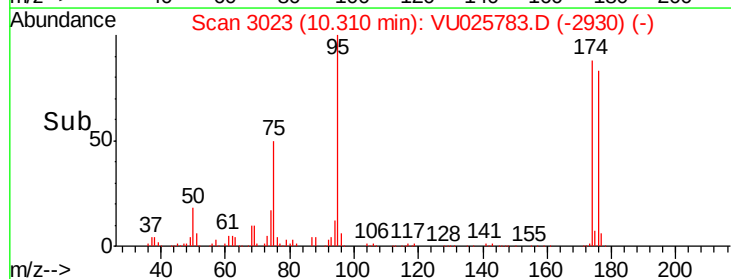
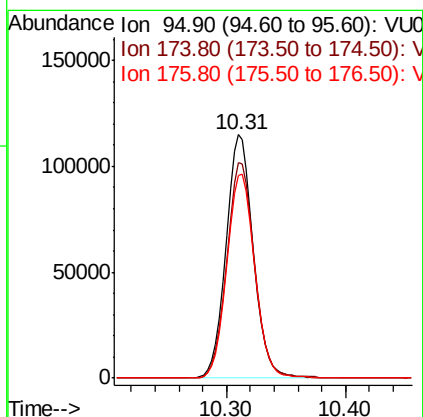
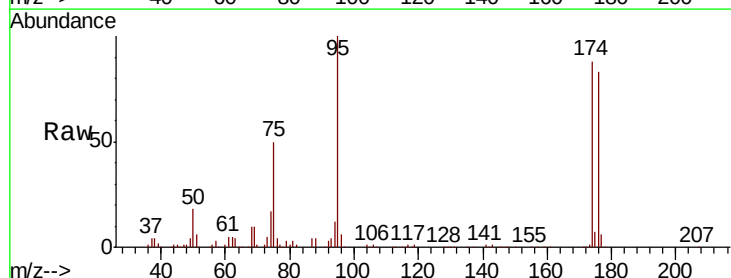
Instrument :
MSVOA_U
ClientSampleId :

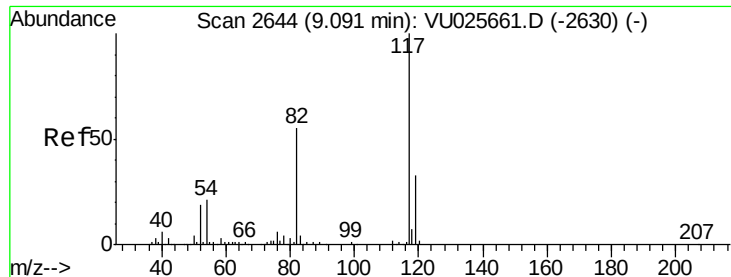
Tot Ion: 43 Resp: 3989
Ion Ratio Lower Upper
43 100
58 34.4 26.2 78.5



#62
4-Bromofluorobenzene
Concen: 48.21 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Tgt Ion: 95 Resp: 181623
Ion Ratio Lower Upper
95 100
174 90.4 0.0 172.2
176 86.6 0.0 162.6

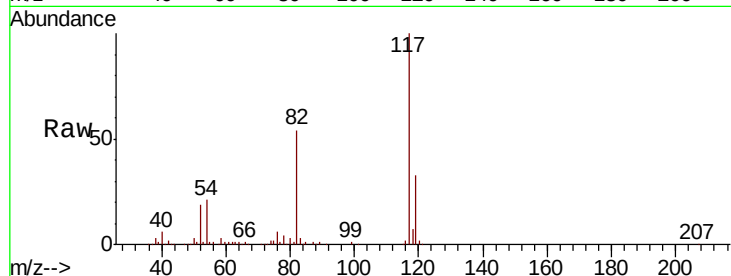




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	46.0	69.0
119	33.0	26.0	39.0

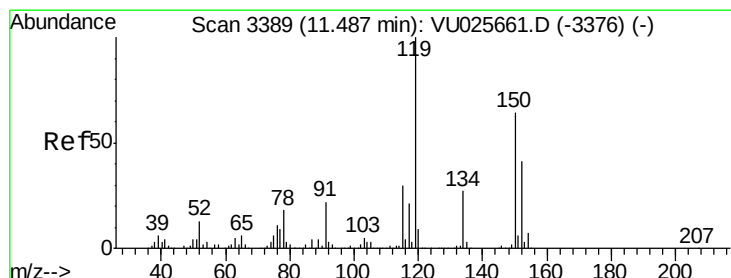
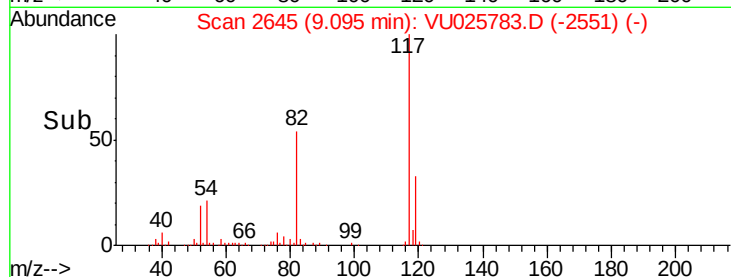
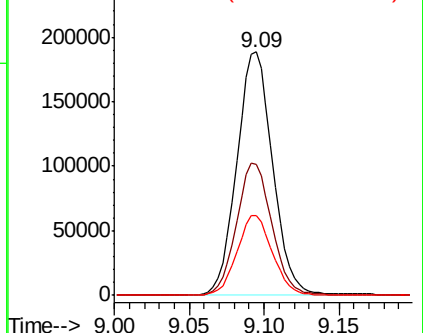


Abundance

Ion 116.90 (116.60 to 117.60): V

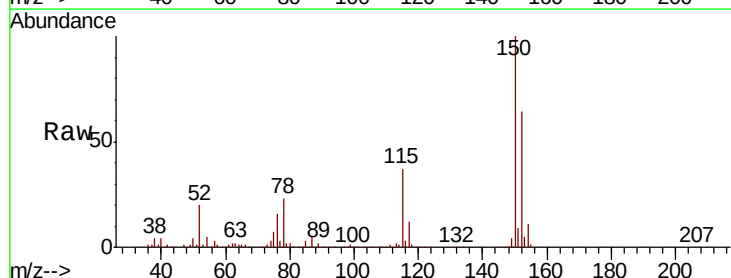
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	40.1	120.3
150	155.8	0.0	351.4

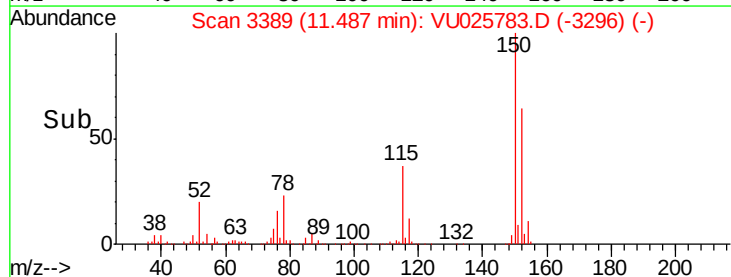
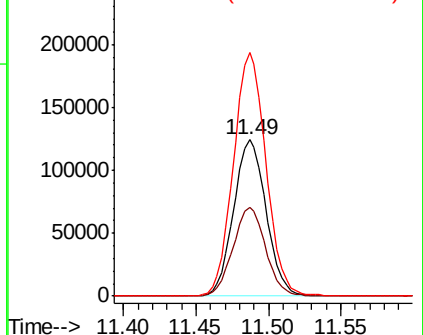


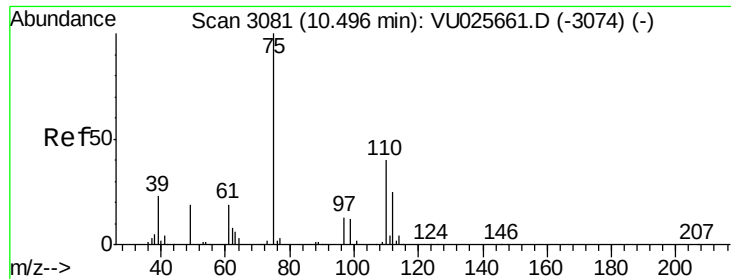
Abundance

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

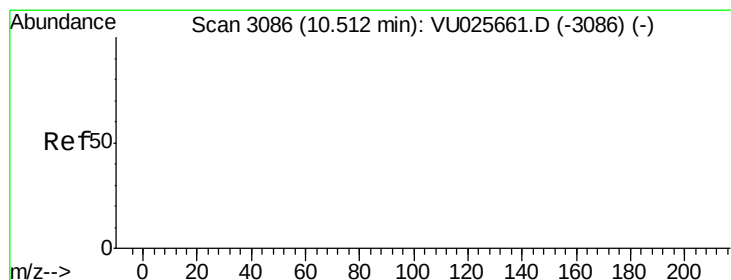
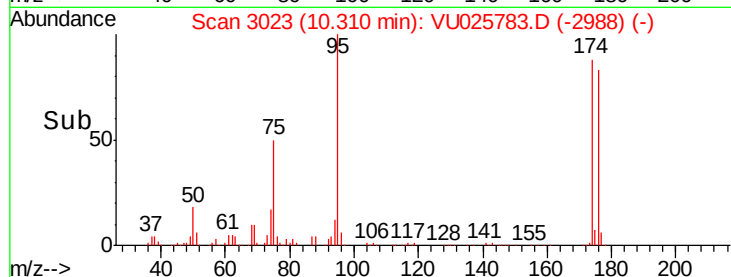
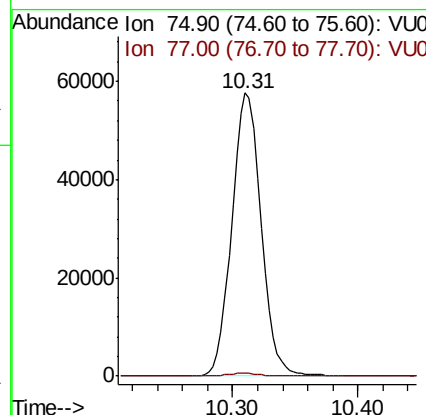
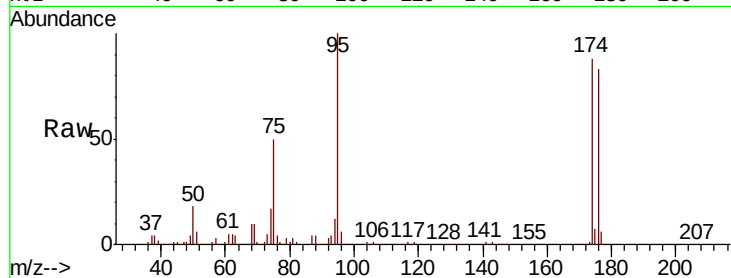




#76
 1,2,3-Trichloropropane
 Concen: 21.84 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU025783.D
 Acq: 01 Aug 2018 17:53

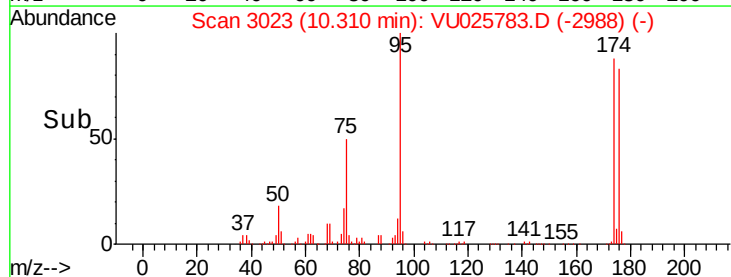
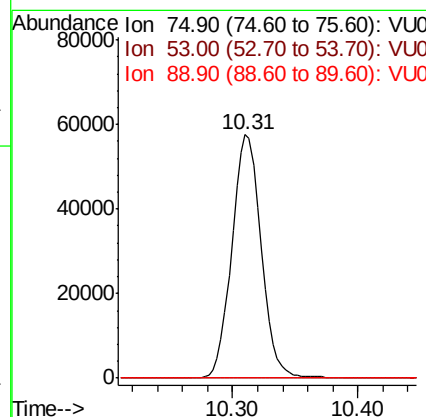
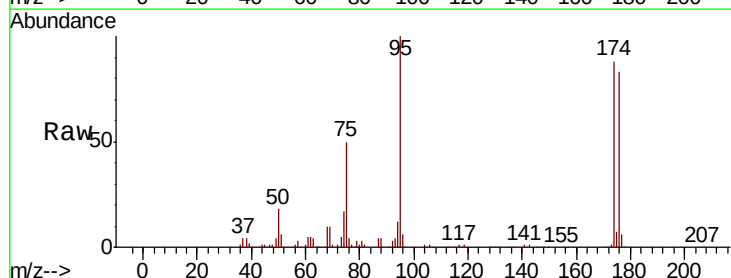
Instrument :
 MSVOA_U
 ClientSampleId :

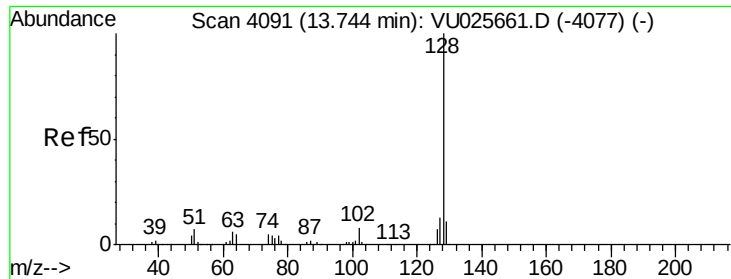
Tot Ion: 75 Resp: 93235
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.4 61.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.76 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU025783.D
 Acq: 01 Aug 2018 17:53

Tgt Ion: 75 Resp: 93235
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

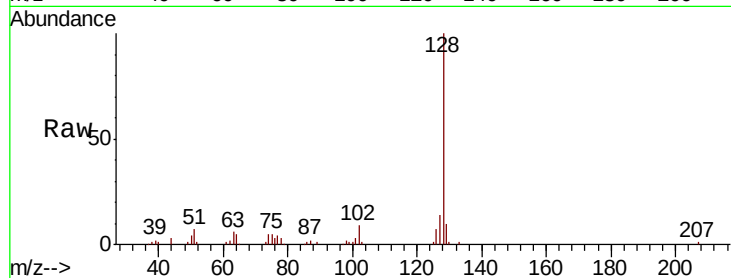




#95
Naphthalene
Concen: 5.08 ug/l
RT: 13.75 min Scan# 4092
Delta R.T. 0.00 min
Lab File: VU025783.D
Acq: 01 Aug 2018 17:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.0	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

