

Data File : VU033993.D
Acq On : 27 Aug 2019 23:29
Operator : JC/SP
Sample : K4516-31
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T2-S-B2-(0)

Quant Time: Aug 28 04:09:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 28 02:42:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	446677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	714954	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	639432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	288871	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	304869	61.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.88%	
35) Dibromofluoromethane	4.86	113	241263	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
50) Toluene-d8	7.55	98	895070	50.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.98%	
62) 4-Bromofluorobenzene	10.29	95	304558	44.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.58%	

Target Compounds				Qvalue		
3) Chloromethane	1.32	50	3504	1.619	ug/l	99
5) Bromomethane	1.62	94	682	0.250	ug/l #	65
8) Diethyl Ether	2.09	74	654	0.292	ug/l #	8
11) Tert butyl alcohol	2.82	59	2574	2.003	ug/l #	85
16) Acetone	2.31	43	11018	4.639	ug/l	96
18) Methyl Acetate	2.61	43	7405	1.266	ug/l	94
20) Methylene Chloride	2.69	84	17691	3.510	ug/l	94
31) Cyclohexane	4.96	56	9039	1.235	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34307	5.239	ug/l #	48
38) Carbon Tetrachloride	4.96	117	42696	6.398	ug/l #	16
43) Isopropyl Acetate	5.53	43	89980	8.935	ug/l	96
48) Methyl methacrylate	6.68	41	142987	29.863	ug/l #	34
49) 1,4-Dioxane	6.68	88	187	1.423	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	74194	10.685	ug/l #	44
54) cis-1,3-Dichloropropene	7.40	75	36757	4.557	ug/l #	66
56) Ethyl methacrylate	7.98	69	133	2.530	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	5288	0.626	ug/l #	43
59) 2-Hexanone	8.40	43	64874	12.155	ug/l #	50
74) N-amyl acetate	9.92	43	2522	0.361	ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	155107	26.948	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.29	75	155107	77.186	ug/l #	100

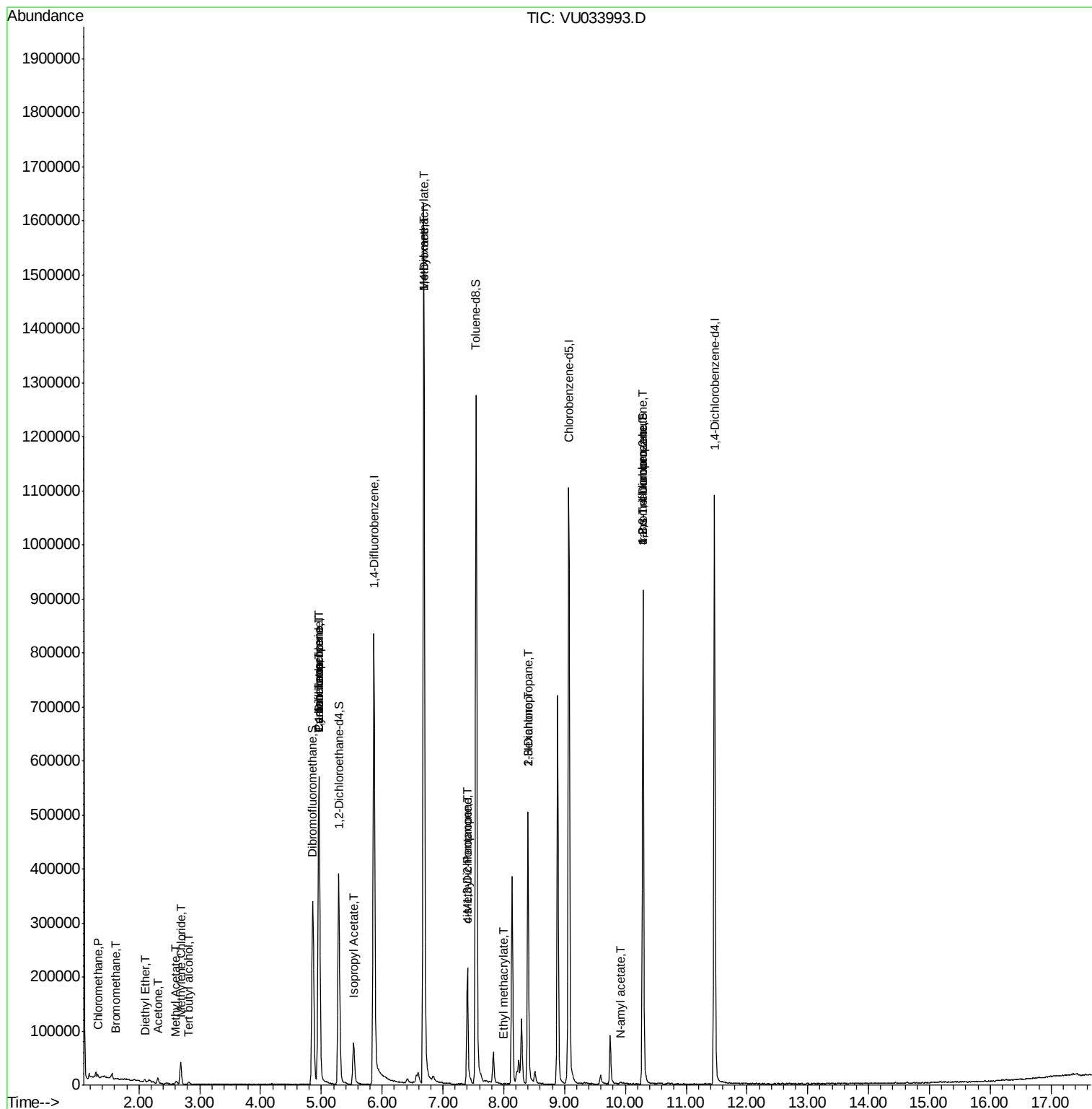
(#) = qualifier out of range (m) = manual integration (+) = signals summed

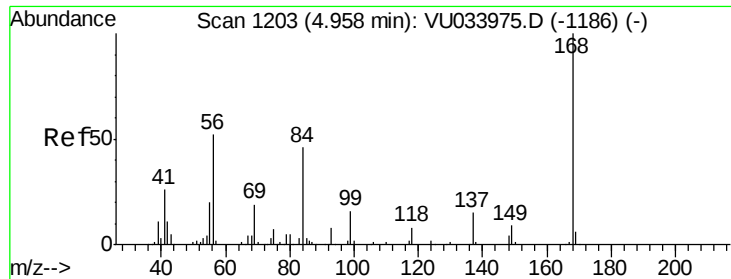
Data File : VU033993.D

```
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

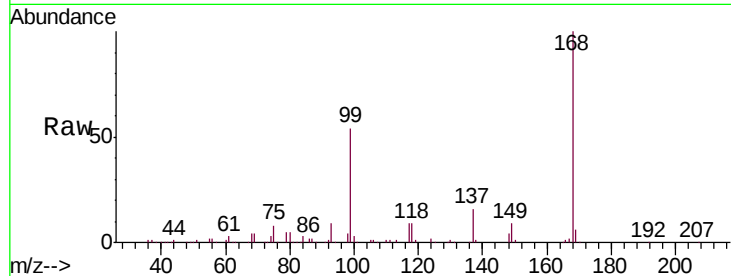
T2-S-B2-(0)

Tgt Ion:168 Resp: 446677

Ion Ratio Lower Upper

168 100

99 54.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VU033975.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU033975.D (-1186) (-)

4.96

200000

150000

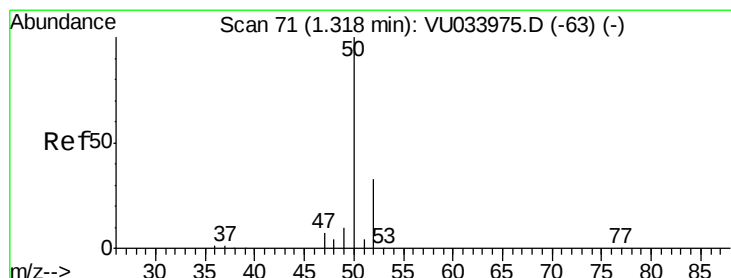
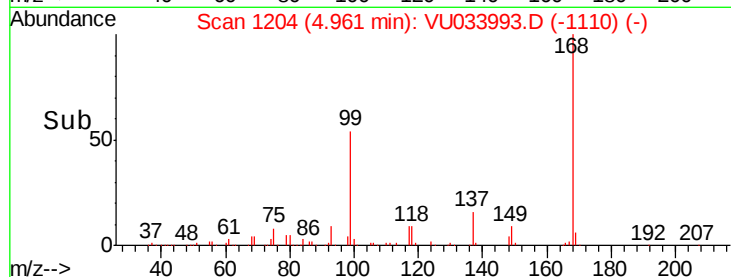
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 1.619 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU033993.D

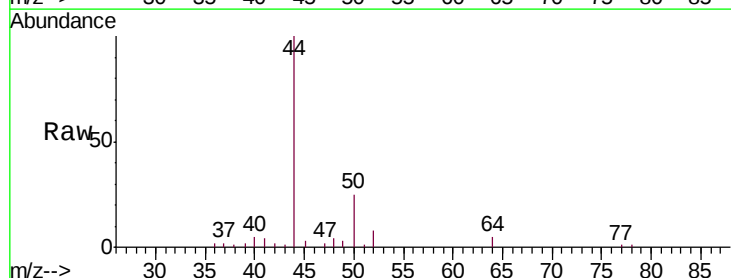
Acq: 27 Aug 2019 23:29

Tgt Ion: 50 Resp: 3504

Ion Ratio Lower Upper

50 100

52 32.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VU033975.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU033975.D (-63) (-)

1.32

3000

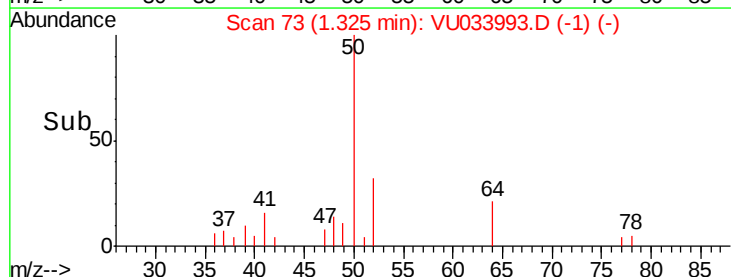
2000

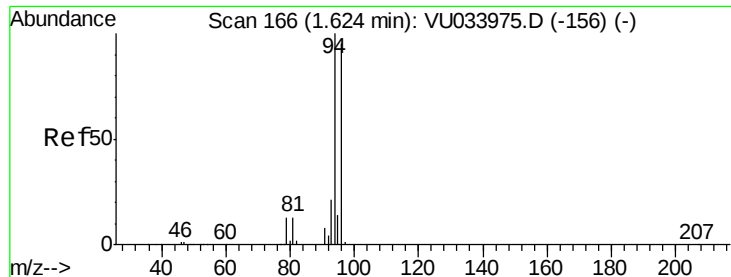
1000

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

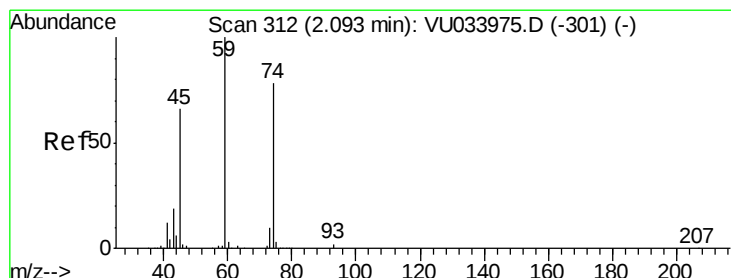
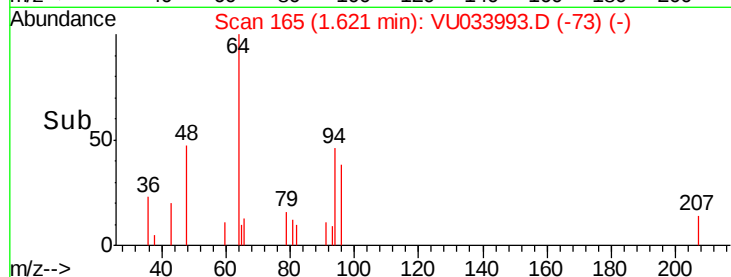
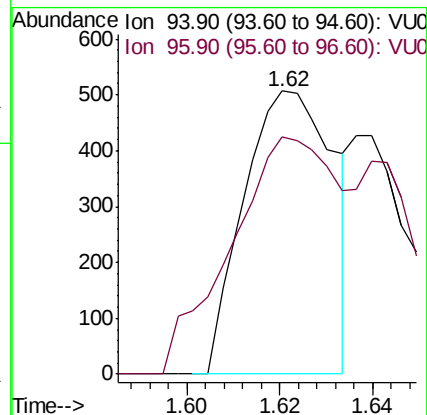
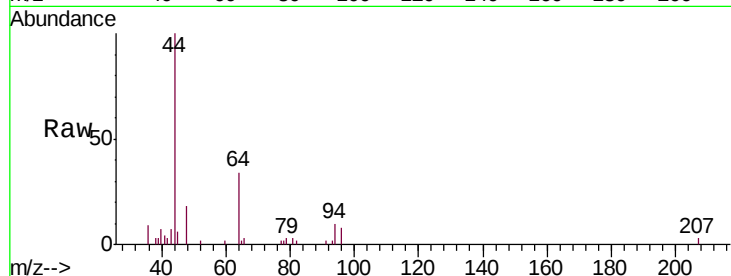
T2-S-B2-(0)

Tgt Ion: 94 Resp: 682

Ion Ratio Lower Upper

94 100

96 61.1 76.3 114.5#



#8

Diethyl Ether

Concen: 0.292 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU033993.D

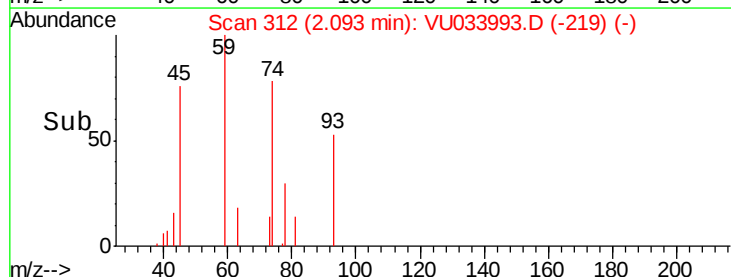
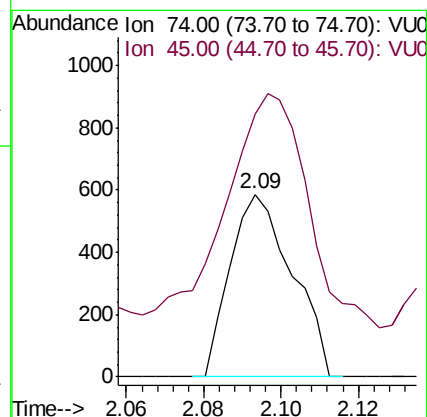
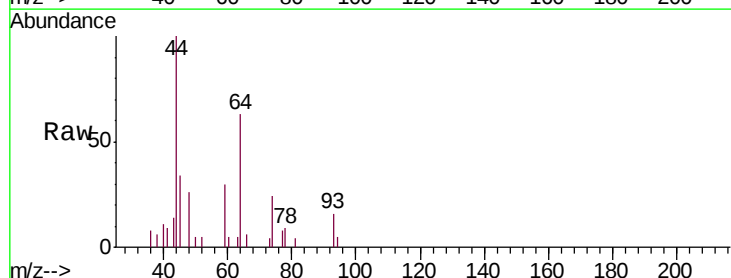
Acq: 27 Aug 2019 23:29

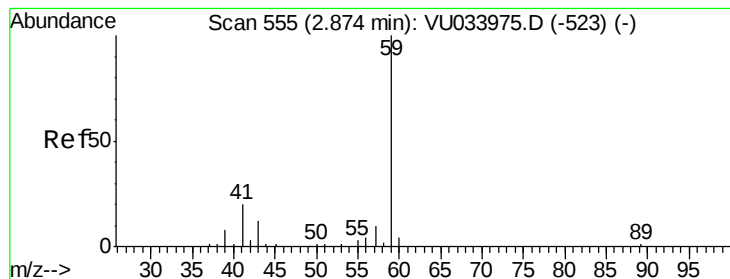
Tgt Ion: 74 Resp: 654

Ion Ratio Lower Upper

74 100

45 169.7 42.8 128.4#



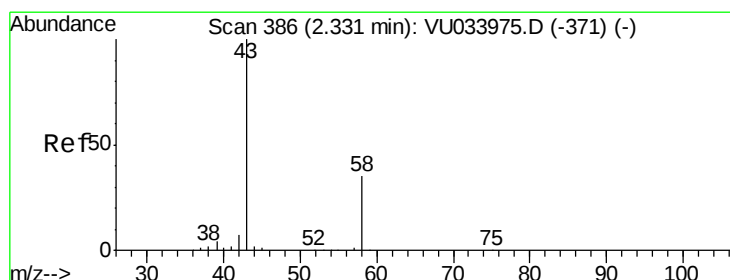
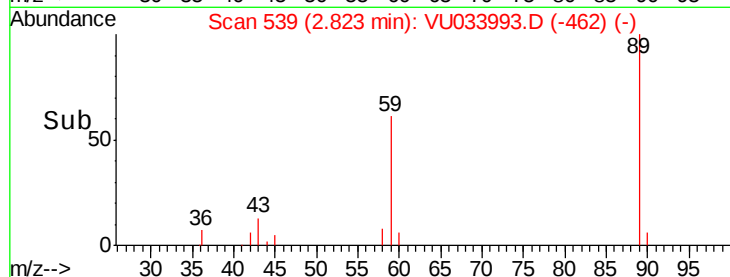
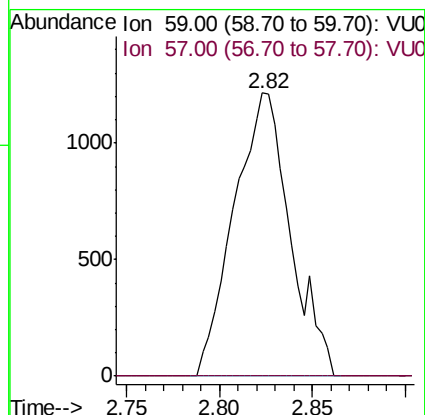
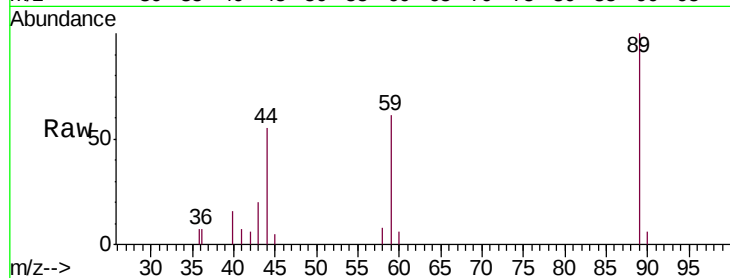


#11

Tert butyl alcohol
 Concen: 2.003 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. -0.05 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B2-(0)

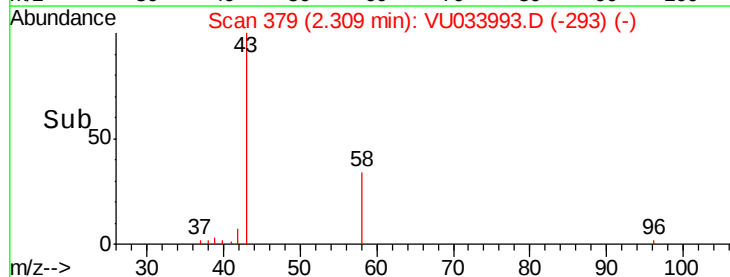
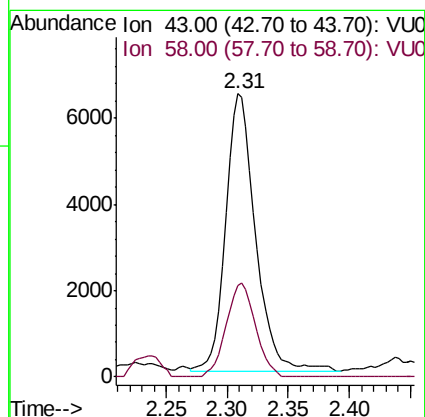
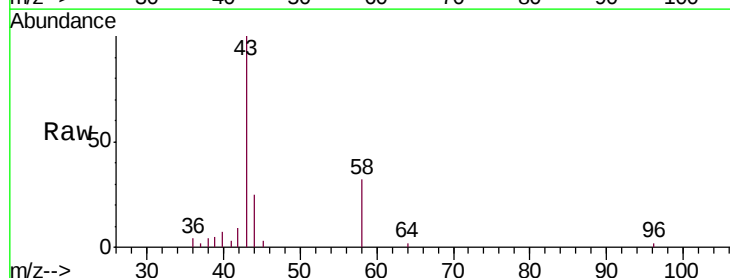
Tgt Ion: 59 Resp: 2574
 Ion Ratio Lower Upper
 59 100
 57 0.0 3.9 5.9#

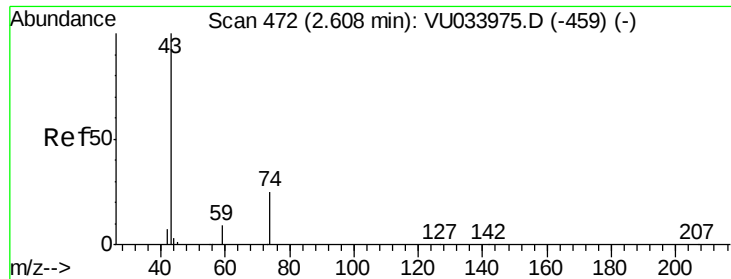


#16

Acetone
 Concen: 4.639 ug/l
 RT: 2.31 min Scan# 379
 Delta R.T. -0.02 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

Tgt Ion: 43 Resp: 11018
 Ion Ratio Lower Upper
 43 100
 58 32.9 28.0 42.0

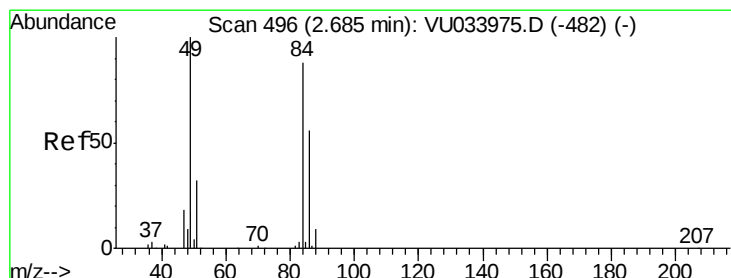
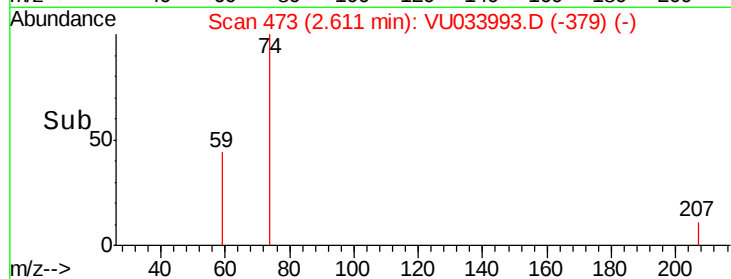
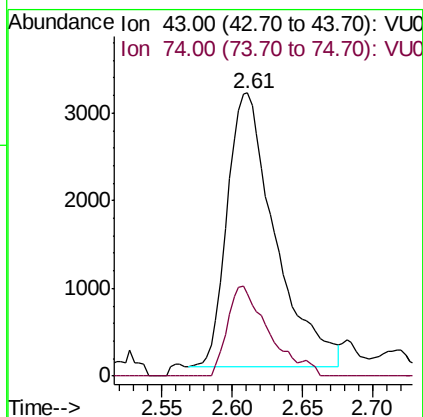
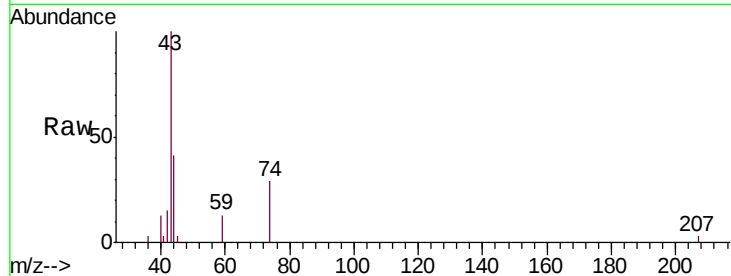




#18
Methyl Acetate
Concen: 1.266 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU033993.D
Acq: 27 Aug 2019 23:29

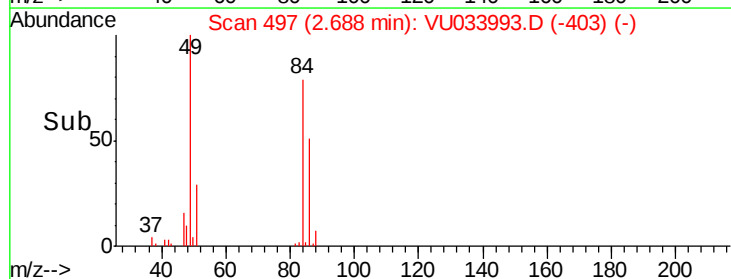
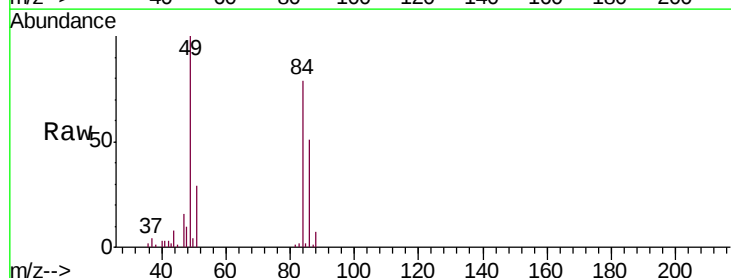
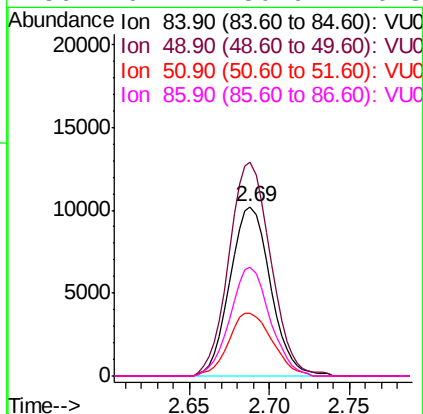
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B2-(0)

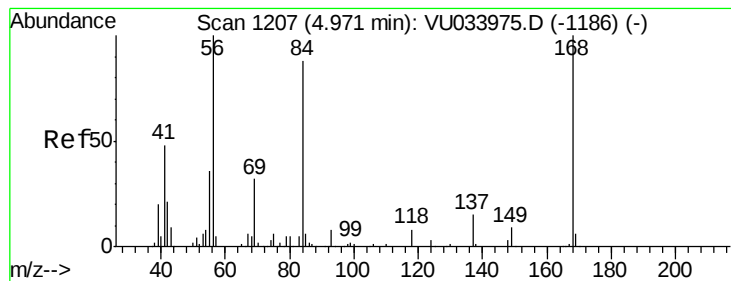
Tgt Ion: 43 Resp: 7405
Ion Ratio Lower Upper
43 100
74 28.6 20.5 30.7



#20
Methylene Chloride
Concen: 3.510 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU033993.D
Acq: 27 Aug 2019 23:29

Tgt Ion: 84 Resp: 17691
Ion Ratio Lower Upper
84 100
49 126.3 91.3 136.9
51 36.8 28.9 43.3
86 64.2 50.9 76.3





#31

Cyclohexane

Concen: 1.235 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B2-(0)

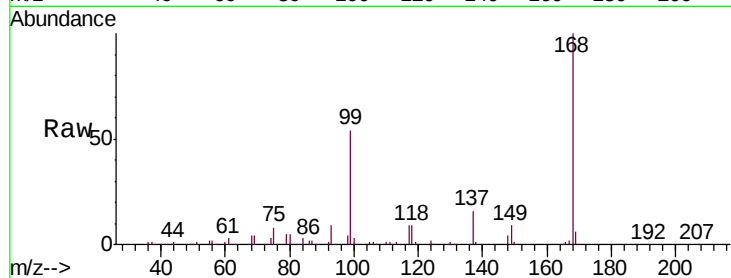
Tgt Ion: 56 Resp: 9039

Ion Ratio Lower Upper

56 100

69 196.2 25.9 38.9#

84 152.0 70.4 105.6#

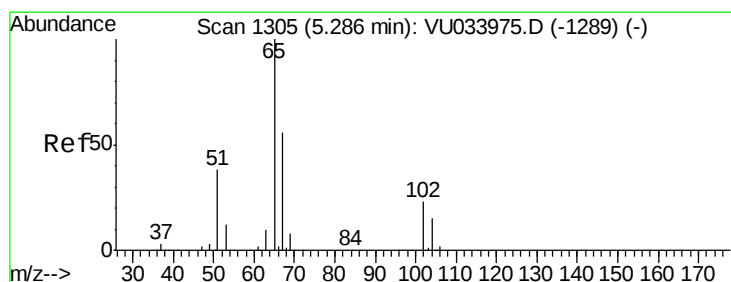
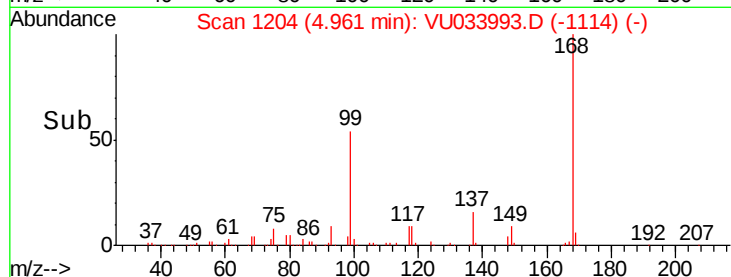
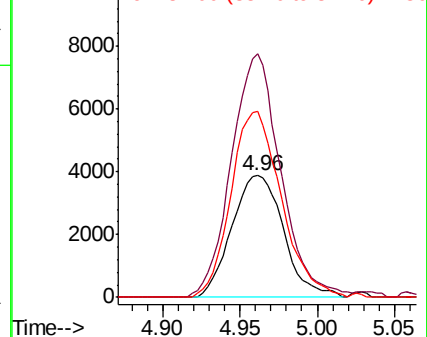


Abundance

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: 61.436 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU033993.D

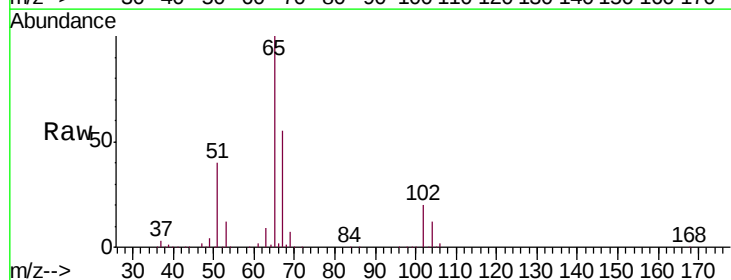
Acq: 27 Aug 2019 23:29

Tgt Ion: 65 Resp: 304869

Ion Ratio Lower Upper

65 100

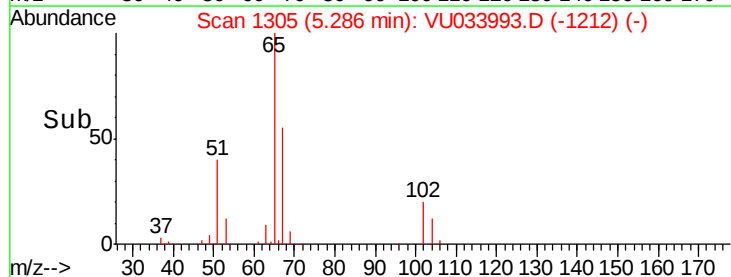
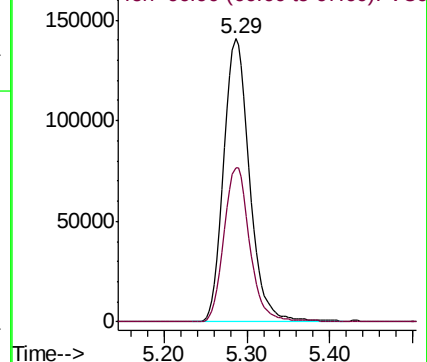
67 54.2 0.0 111.0

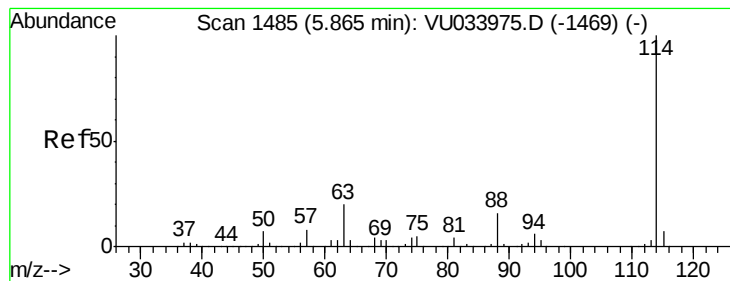


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

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ClientSampleId :

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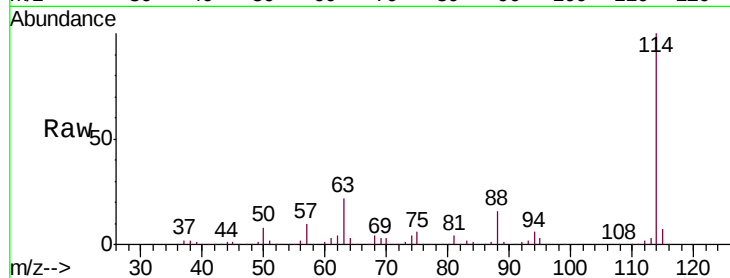
Tgt Ion:114 Resp: 714954

Ion Ratio Lower Upper

114 100

63 22.1 0.0 39.0

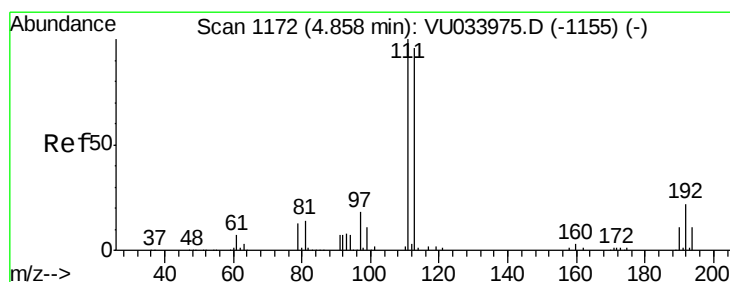
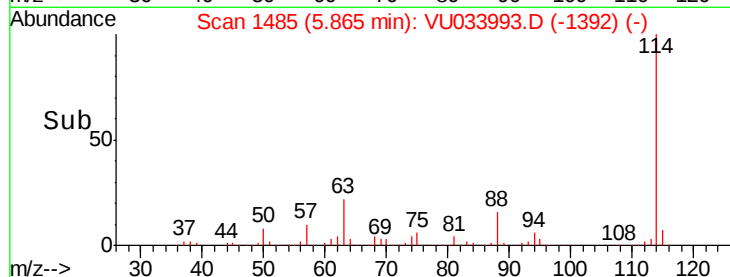
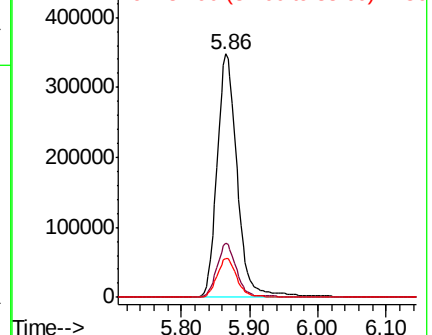
88 16.1 0.0 31.2



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: 50.202 ug/l

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

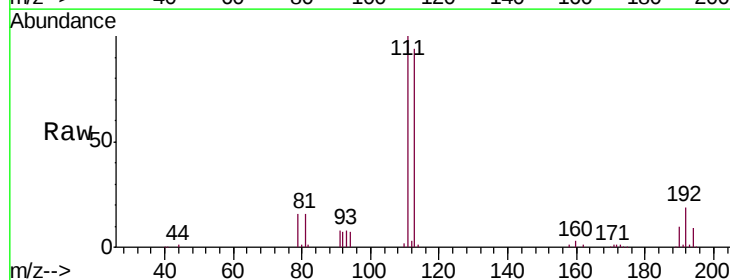
Tgt Ion:113 Resp: 241263

Ion Ratio Lower Upper

113 100

111 102.9 81.7 122.5

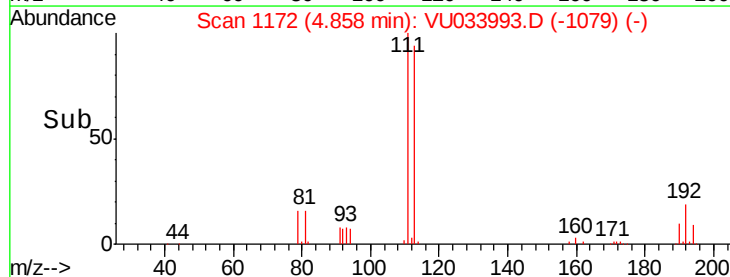
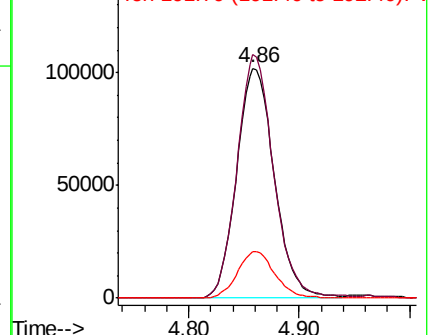
192 20.2 18.6 27.8

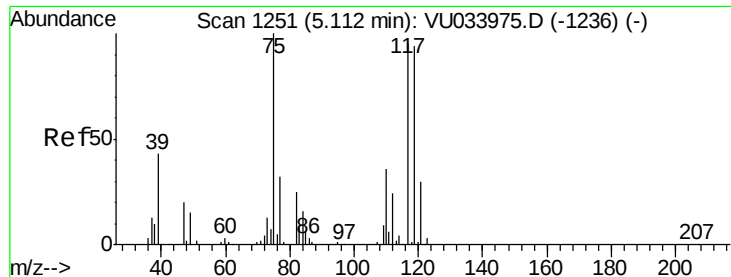


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

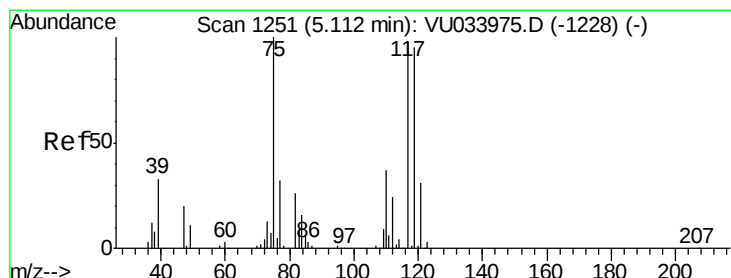
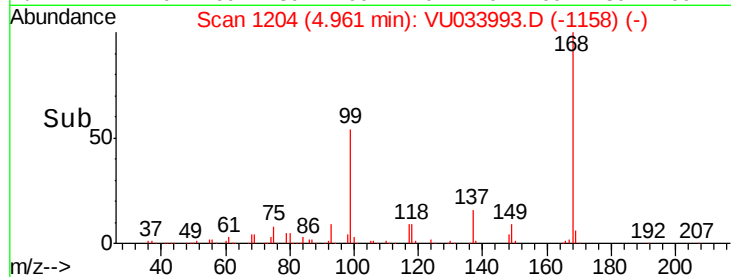
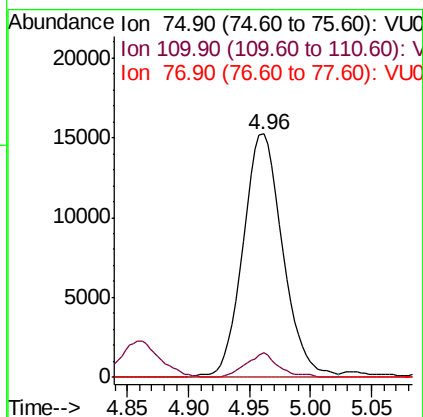
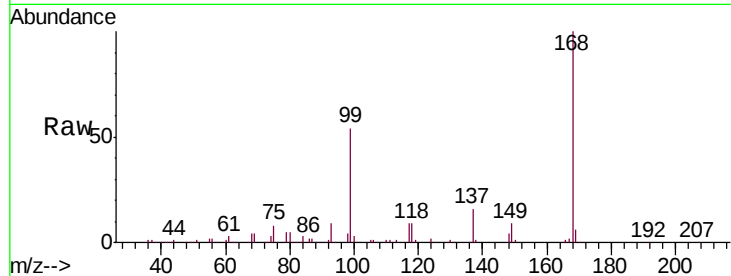




#36
 1,1-Dichloropropene
 Concen: 5.239 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

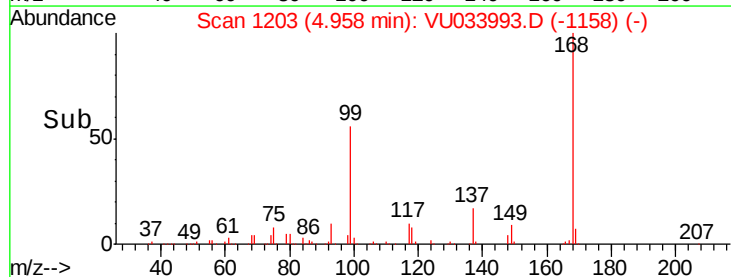
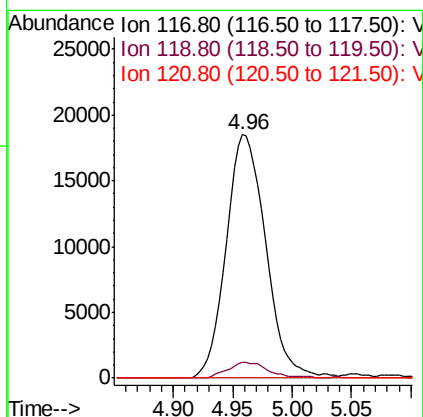
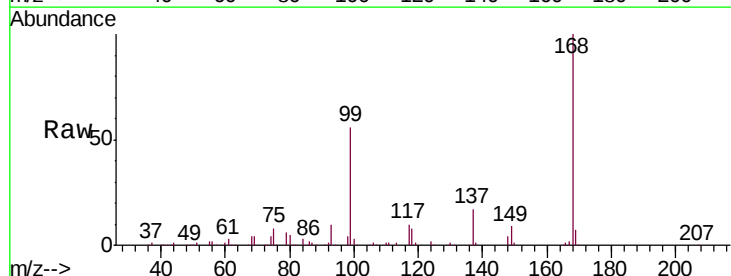
Instrument :
 MSVOA_U
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 T2-S-B2-(0)

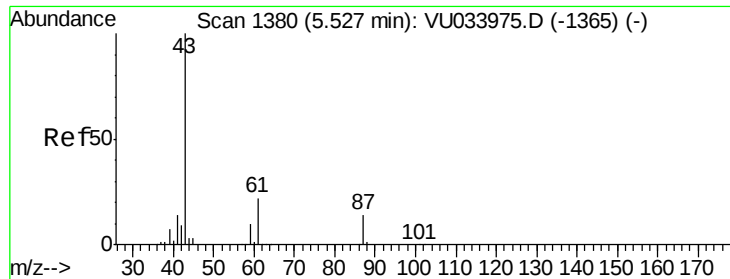
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.2	54.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.398 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	78.4	117.6#
121	0.0	25.4	38.2#





#43

Isopropyl Acetate

Concen: 8.935 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B2-(0)

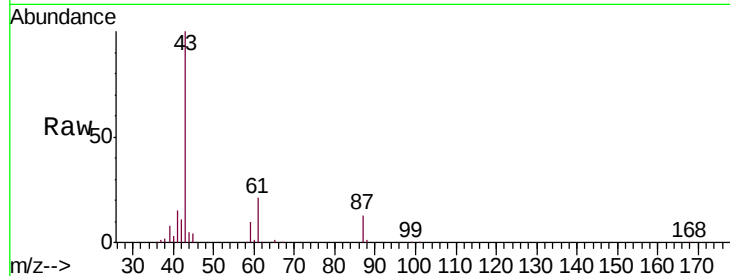
Tgt Ion: 43 Resp: 89980

Ion Ratio Lower Upper

43 100

61 20.9 17.8 26.8

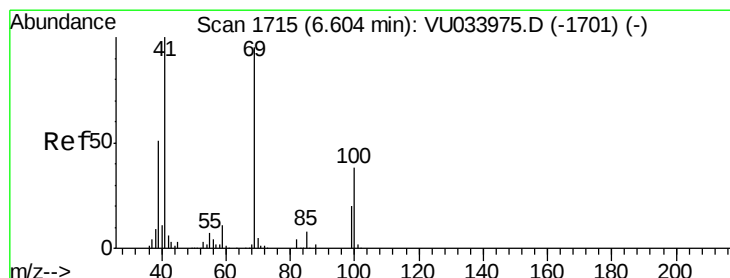
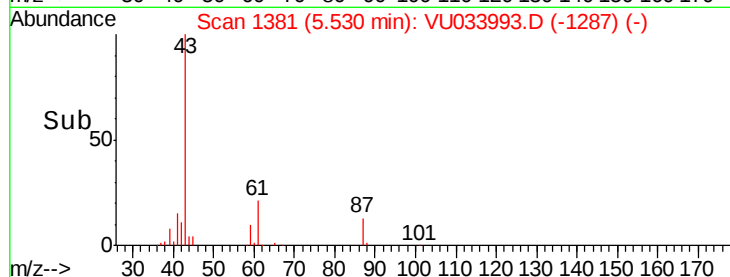
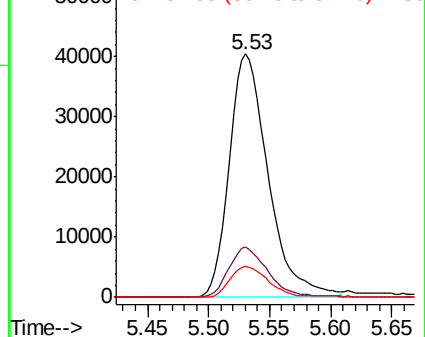
87 12.2 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VU033993.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU033993.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU033993.D (-1287) (-)



#48

Methyl methacrylate

Concen: 29.863 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

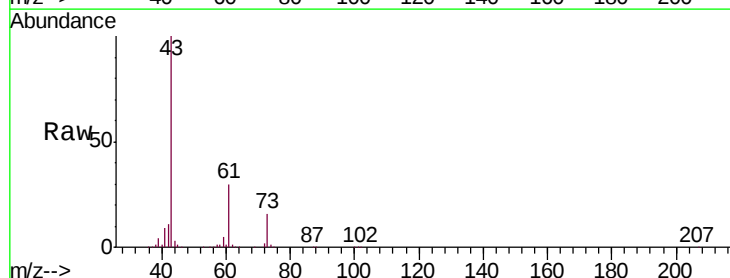
Tgt Ion: 41 Resp: 142987

Ion Ratio Lower Upper

41 100

69 0.1 76.3 114.5#

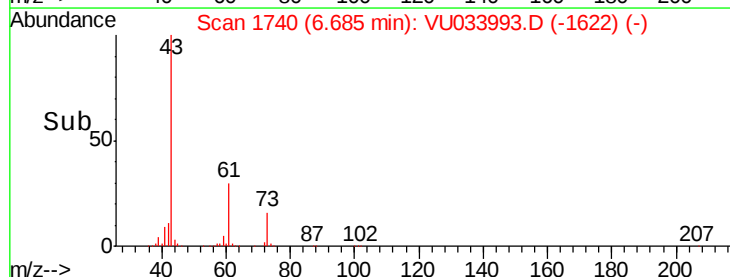
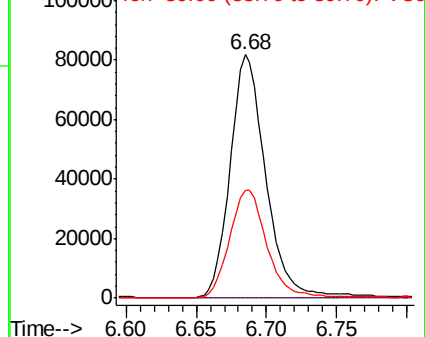
39 46.9 41.1 61.7

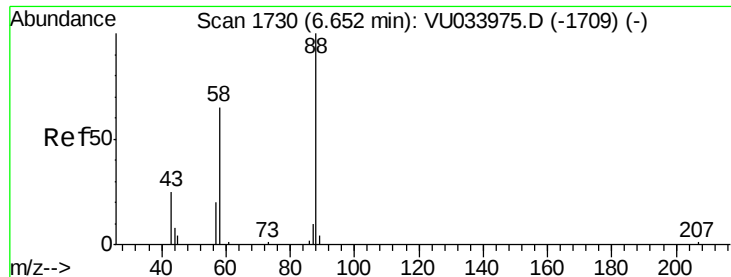


Abundance Ion 41.00 (40.70 to 41.70): VU033993.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU033993.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU033993.D (-1622) (-)





#49

1,4-Dioxane

Concen: 1.423 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.03 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B2-(0)

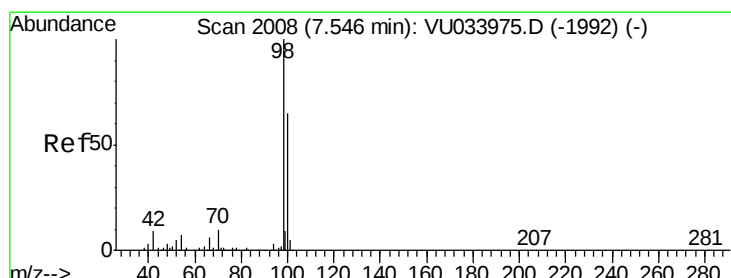
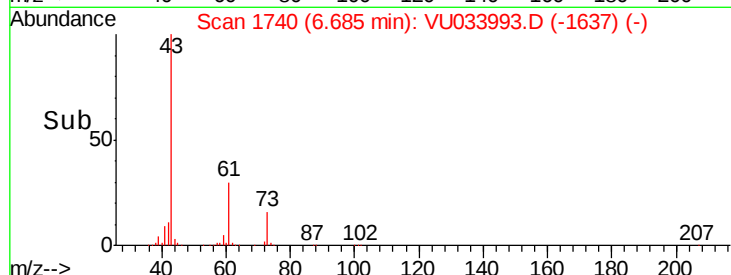
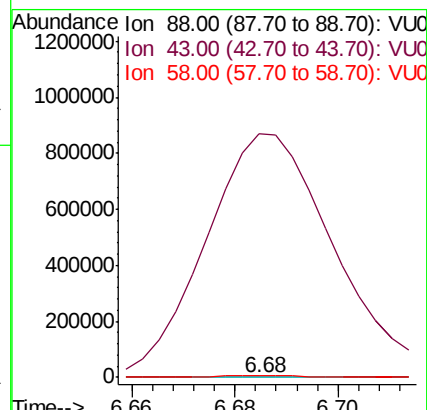
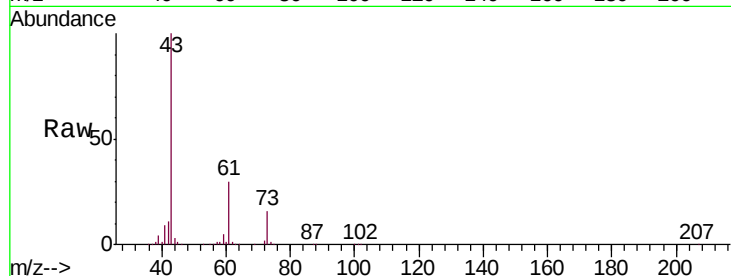
Tgt Ion: 88 Resp: 187

Ion Ratio Lower Upper

88 100

43 835982.9 0.0 0.0#

58 4638.0 56.6 85.0#



#50

Toluene-d8

Concen: 50.494 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU033993.D

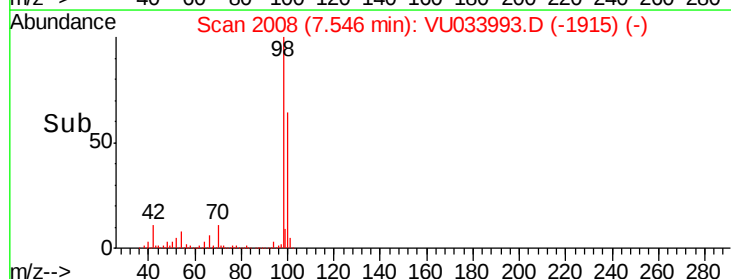
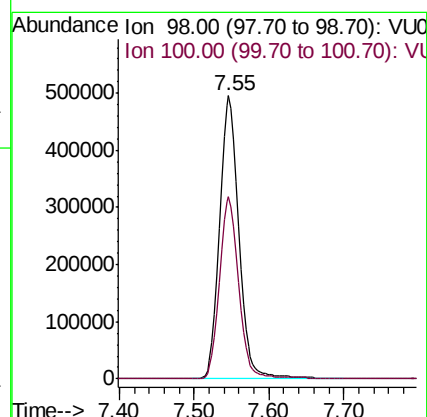
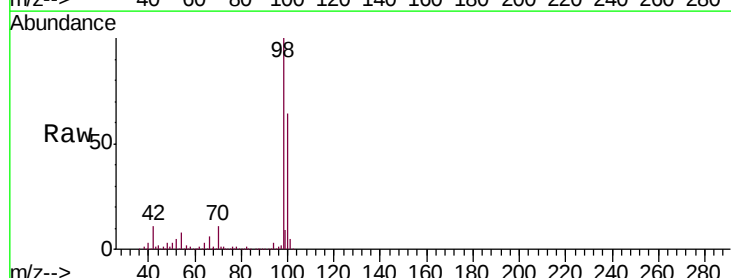
Acq: 27 Aug 2019 23:29

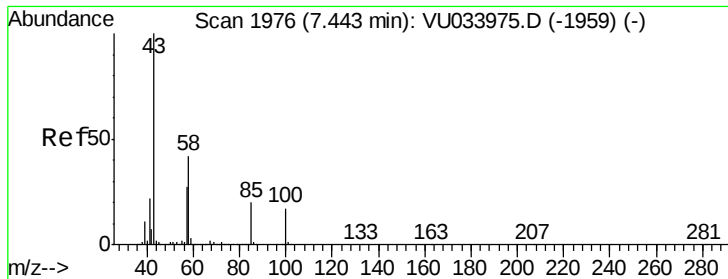
Tgt Ion: 98 Resp: 895070

Ion Ratio Lower Upper

98 100

100 63.4 51.5 77.3

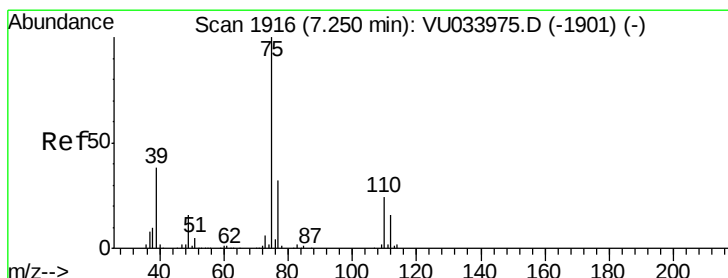
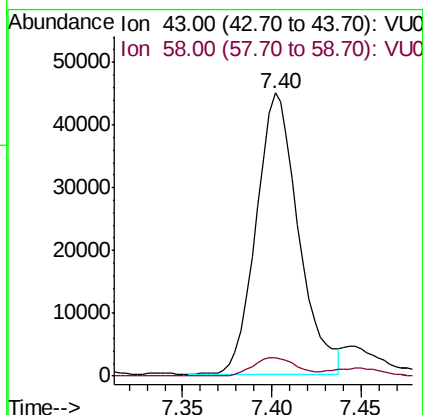
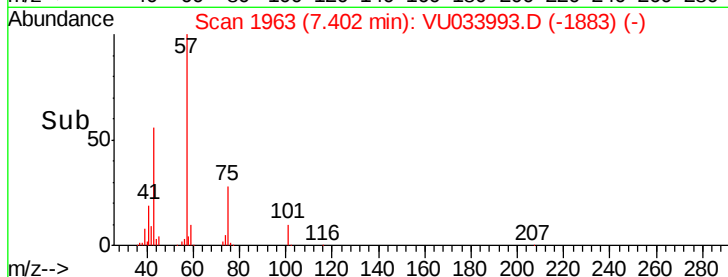
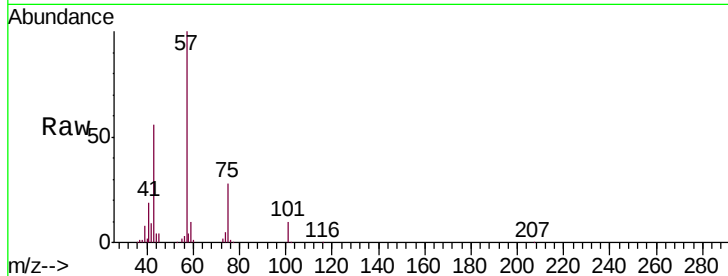




#51
 4-Methyl-2-Pentanone
 Concen: 10.685 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

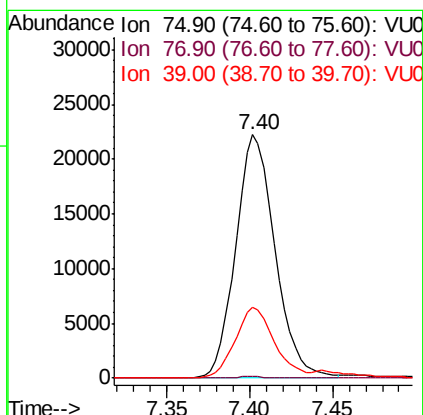
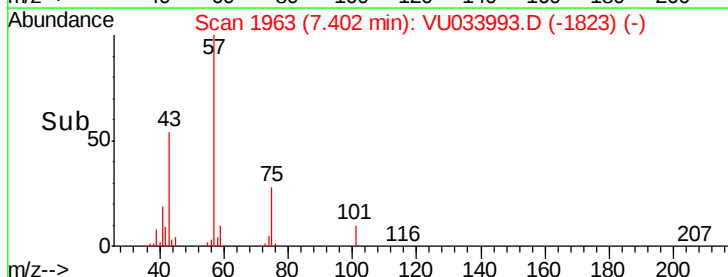
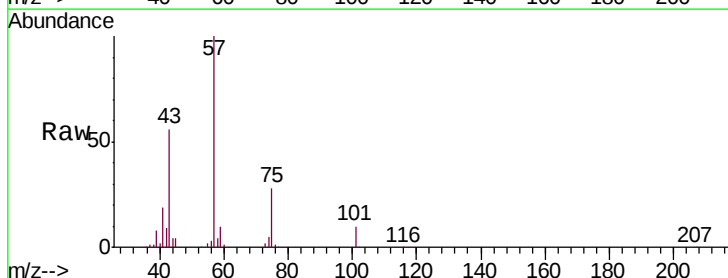
Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B2-(0)

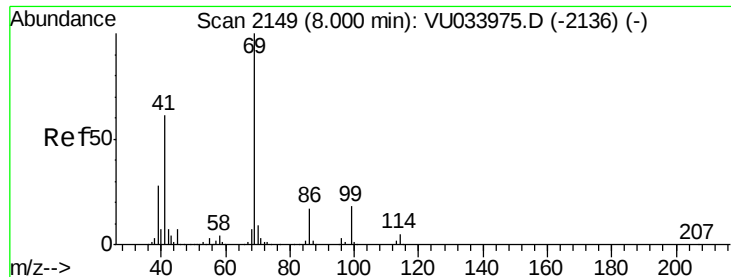
Tgt Ion: 43 Resp: 74194
 Ion Ratio Lower Upper
 43 100
 58 6.7 33.6 50.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.557 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

Tgt Ion: 75 Resp: 36757
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.6 38.4#
 39 29.3 30.7 46.1#





#56

Ethyl methacrylate

Concen: 2.530 ug/l

RT: 7.98 min Scan# 2144

Delta R.T. -0.02 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B2-(0)

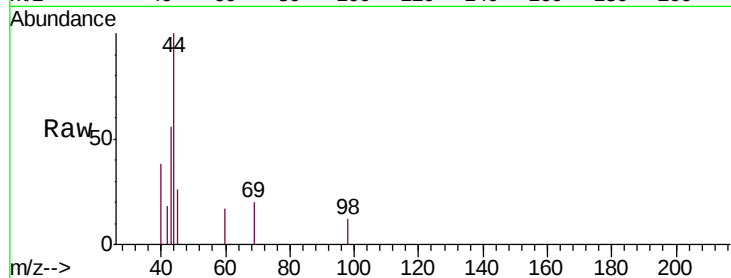
Tgt Ion: 69 Resp: 133

Ion Ratio Lower Upper

69 100

41 0.0 48.6 72.8#

39 0.0 22.4 33.6#

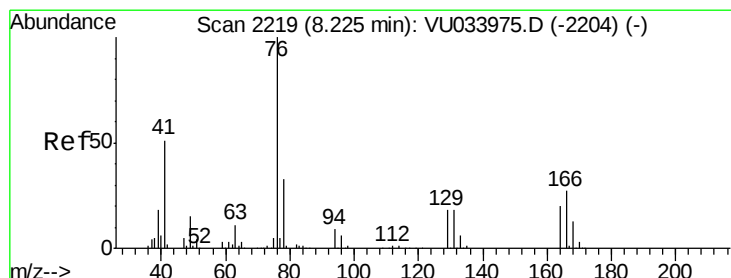
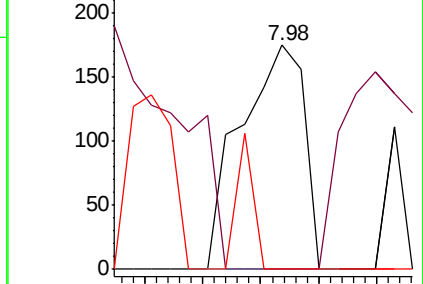
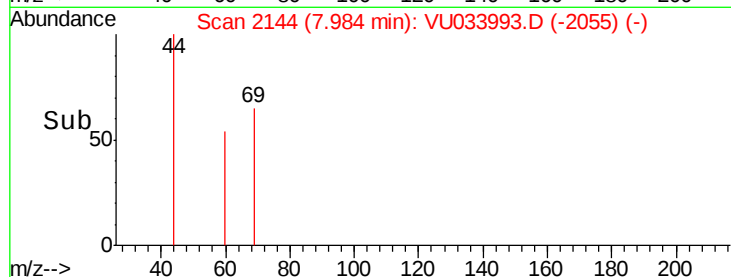


Abundance Ion 69.00 (68.70 to 69.70): VU033993.D (-2144) (-)

Ion 41.00 (40.70 to 41.70): VU033993.D (-2144) (-)

Ion 39.00 (38.70 to 39.70): VU033993.D (-2144) (-)

Time-->



#57

1,3-Dichloropropane

Concen: 0.626 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.17 min

Lab File: VU033993.D

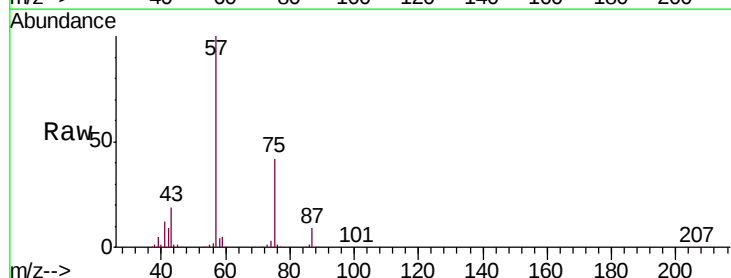
Acq: 27 Aug 2019 23:29

Tgt Ion: 76 Resp: 5288

Ion Ratio Lower Upper

76 100

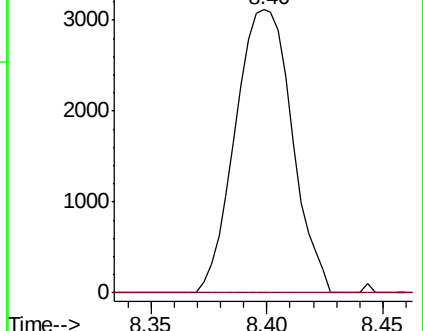
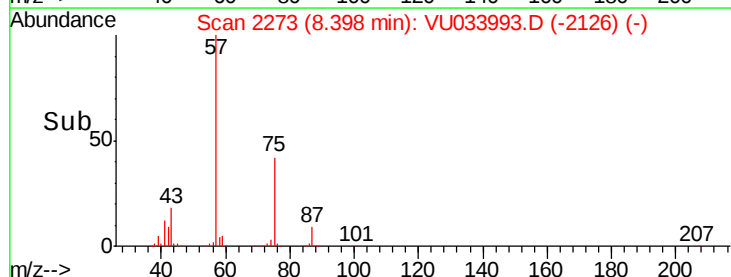
78 0.0 25.7 38.5#

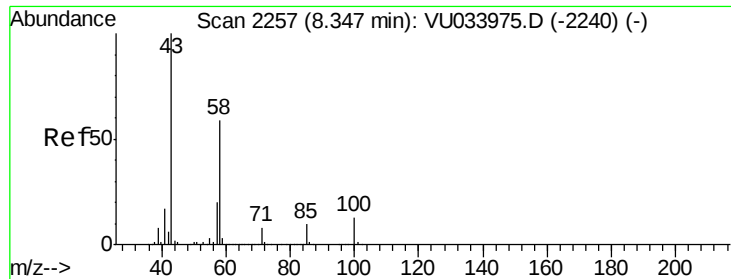


Abundance Ion 75.90 (75.60 to 76.60): VU033993.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU033993.D (-2273) (-)

Time-->

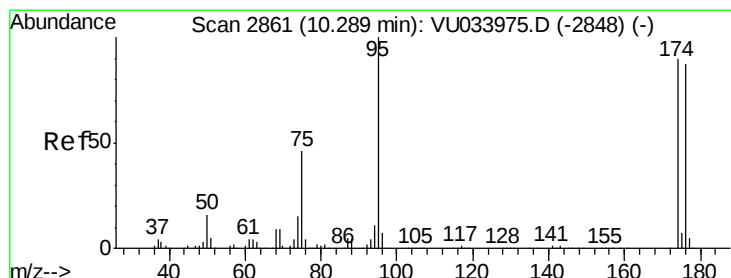
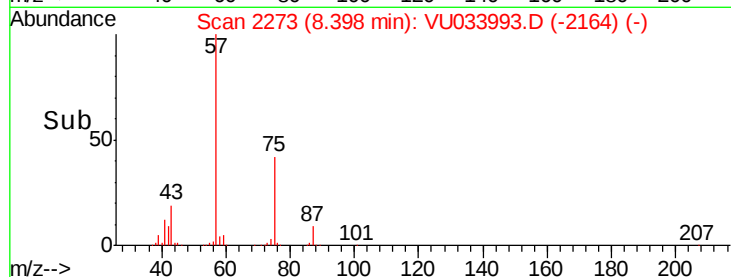
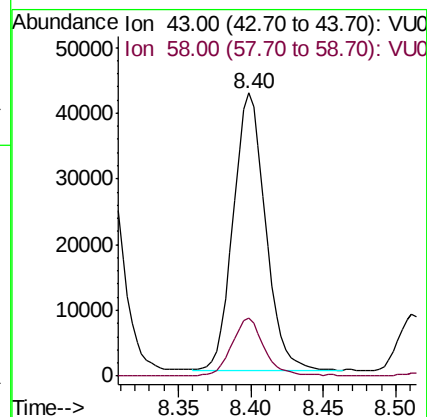
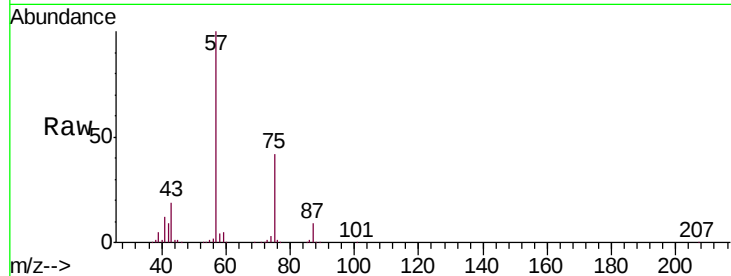




#59
2-Hexanone
Concen: 12.155 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU033993.D
Acq: 27 Aug 2019 23:29

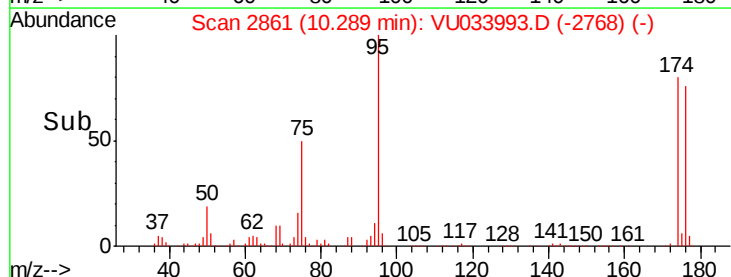
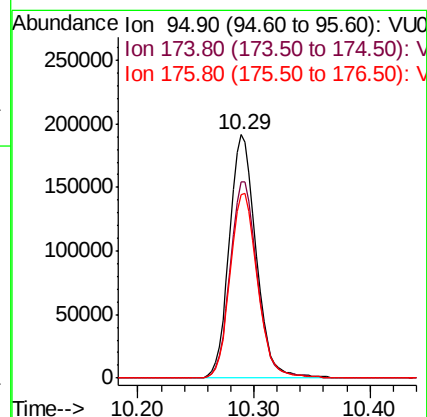
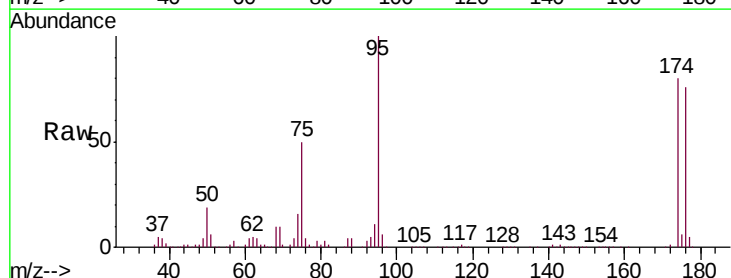
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B2-(0)

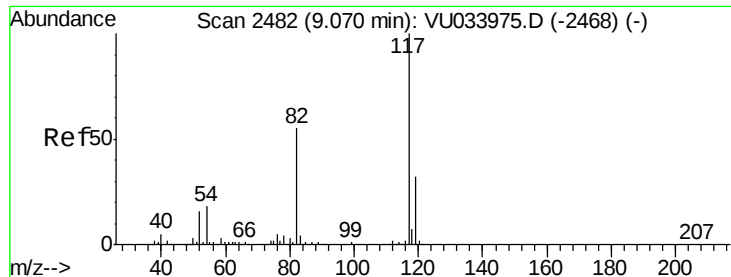
Tgt Ion: 43 Resp: 64874
Ion Ratio Lower Upper
43 100
58 21.6 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 44.789 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU033993.D
Acq: 27 Aug 2019 23:29

Tgt Ion: 95 Resp: 304558
Ion Ratio Lower Upper
95 100
174 82.5 0.0 183.8
176 77.9 0.0 176.4

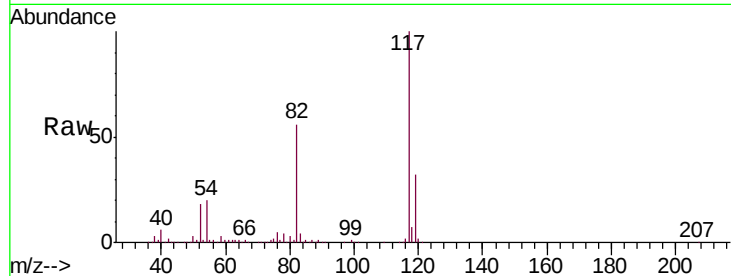




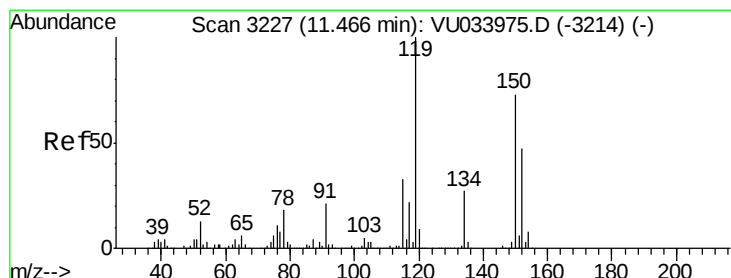
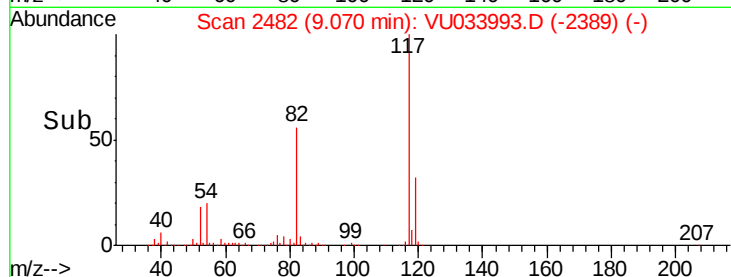
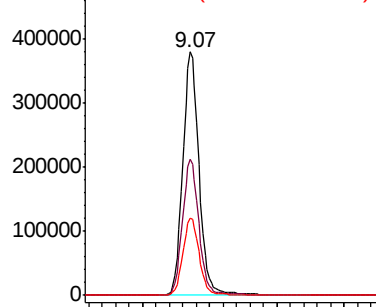
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU033993.D
Acq: 27 Aug 2019 23:29

Instrument :
MSVOA_U
ClientSampleId :
T2-S-B2-(0)

Tgt Ion:117 Resp: 639432
Ion Ratio Lower Upper
117 100
82 55.7 43.8 65.8
119 31.9 25.7 38.5

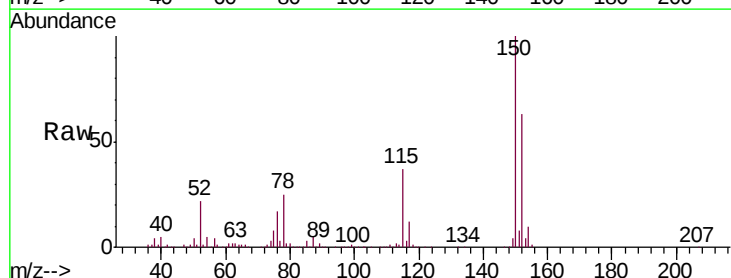


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

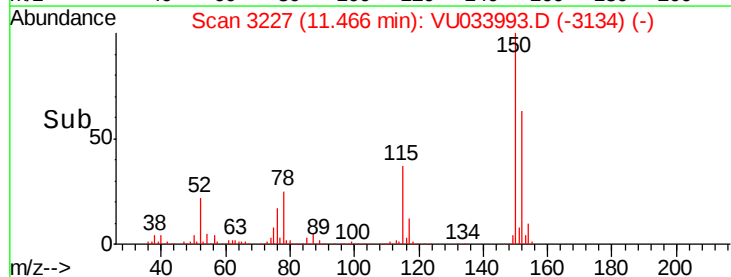
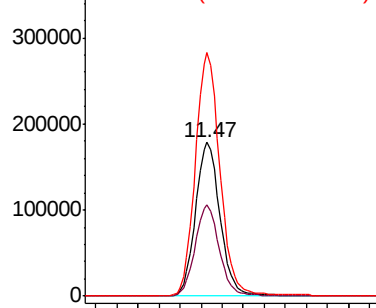


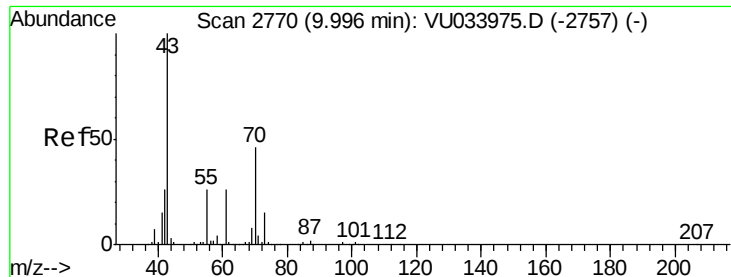
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU033993.D
Acq: 27 Aug 2019 23:29

Tgt Ion:152 Resp: 288871
Ion Ratio Lower Upper
152 100
115 58.6 38.6 115.7
150 157.4 0.0 343.8



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





#74

N-ethyl acetate

Concen: 0.361 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU033993.D

Acq: 27 Aug 2019 23:29

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B2-(0)

Tgt Ion: 43 Resp: 2522

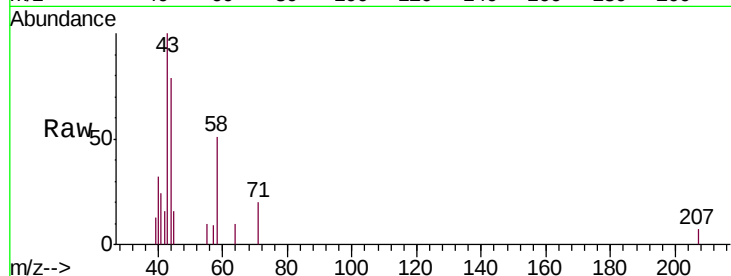
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 10.2 21.0 31.4#

61 0.0 20.9 31.3#

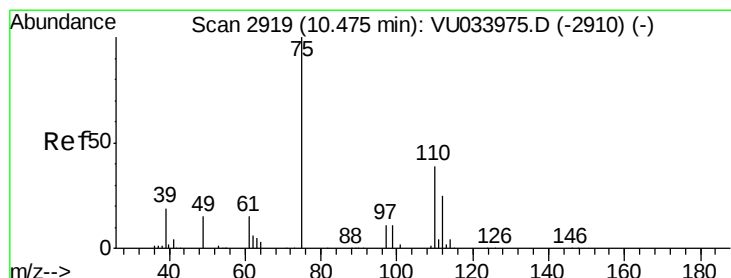
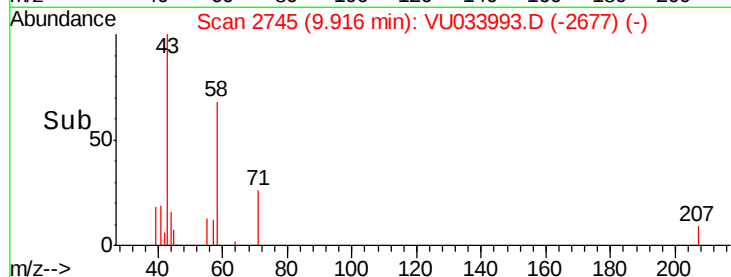
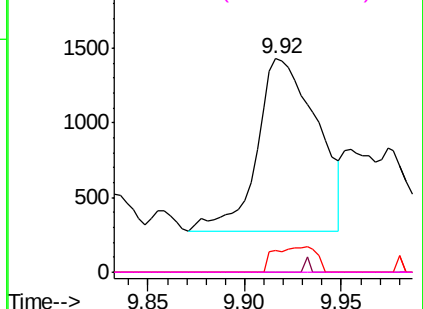


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 26.948 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033993.D

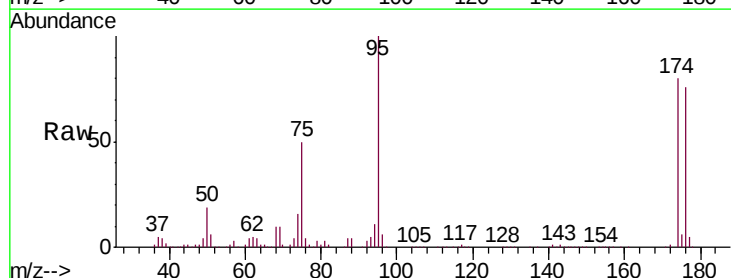
Acq: 27 Aug 2019 23:29

Tgt Ion: 75 Resp: 155107

Ion Ratio Lower Upper

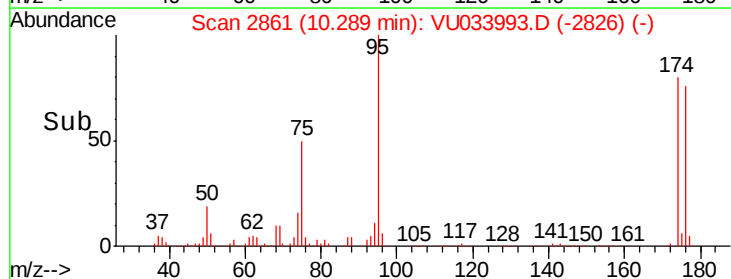
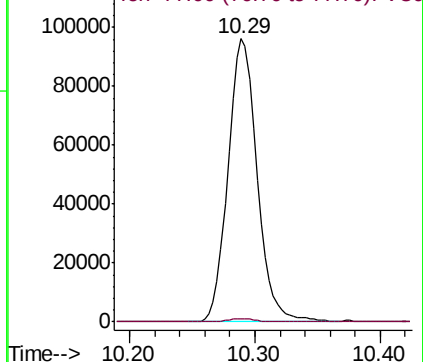
75 100

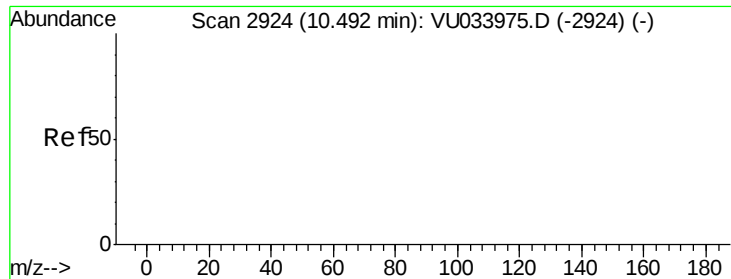
77 1.1 21.0 63.0#



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: 77.186 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.20 min
 Lab File: VU033993.D
 Acq: 27 Aug 2019 23:29

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B2-(0)

Tgt Ion: 75 Resp: 155107
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

