

Data File : VU033990.D
Acq On : 27 Aug 2019 22:17
Operator : JC/SP
Sample : K4516-26
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(2.5)

Quant Time: Aug 28 04:08:30 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	399568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	596485	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	580059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	269516	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	220951	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
35) Dibromofluoromethane	4.86	113	189520	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
50) Toluene-d8	7.55	98	747357	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
62) 4-Bromofluorobenzene	10.29	95	257009	45.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.60%	

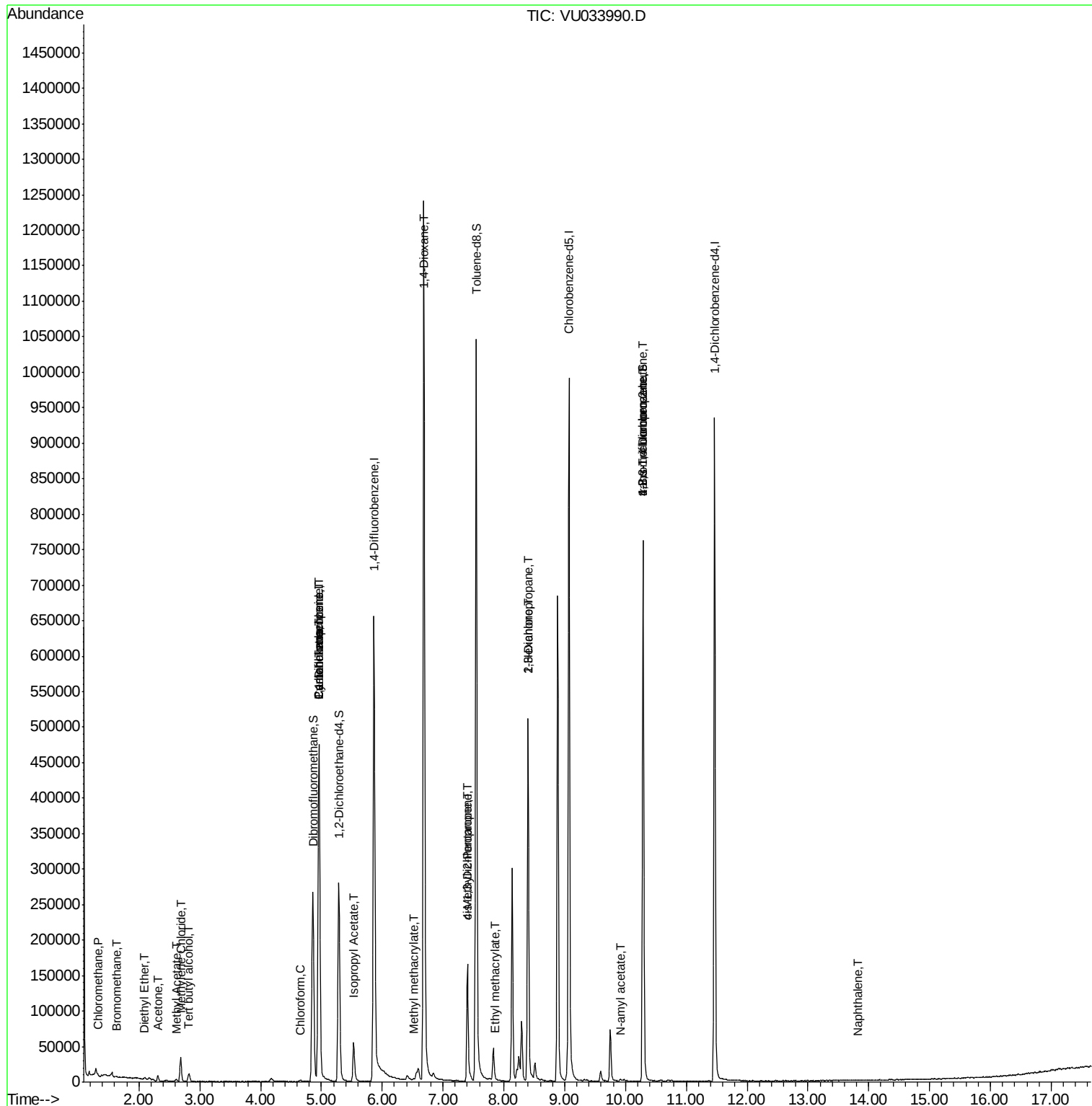
Target Compounds					Qvalue	
3) Chloromethane	1.32	50	1879	1.336	ug/l	100
5) Bromomethane	1.63	94	987	0.405	ug/l #	66
8) Diethyl Ether	2.10	74	533	0.266	ug/l #	44
11) Tert butyl alcohol	2.82	59	6476	5.632	ug/l #	85
16) Acetone	2.31	43	8254	3.885	ug/l	92
18) Methyl Acetate	2.61	43	5070	0.969	ug/l #	85
20) Methylene Chloride	2.68	84	15178	3.367	ug/l	96
30) Chloroform	4.66	83	2344	0.319	ug/l	98
31) Cyclohexane	4.96	56	6421	0.981	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	26256	4.806	ug/l #	48
38) Carbon Tetrachloride	4.96	117	34212	6.145	ug/l #	16
43) Isopropyl Acetate	5.53	43	62908	7.487	ug/l	99
48) Methyl methacrylate	6.53	41	5376	1.346	ug/l #	11
49) 1,4-Dioxane	6.69	88	52	0.474	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	55315	9.549	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	31428	4.670	ug/l #	61
56) Ethyl methacrylate	7.87	69	106	2.529	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	5165	0.732	ug/l #	43
59) 2-Hexanone	8.40	43	66678	14.975	ug/l #	50
74) N-amyl acetate	9.92	43	1448	0.222	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	121849	22.690	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	121849	64.990	ug/l #	100
95) Naphthalene	13.81	128	19	2.084	ug/l #	70

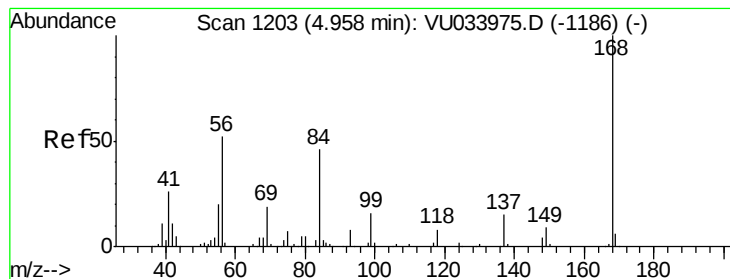
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

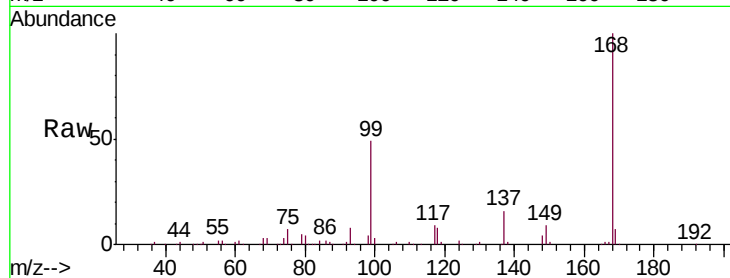
T1-S-B4-(2.5)

Tgt Ion:168 Resp: 399568

Ion Ratio Lower Upper

168 100

99 48.7 39.4 59.2



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

Ion 98.90 (98.60 to 99.60): VU033990.D (-1110) (-)

4.96

150000

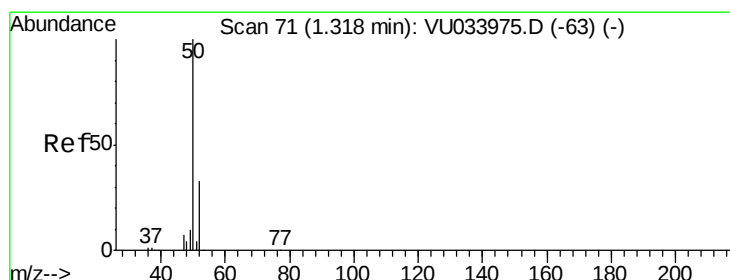
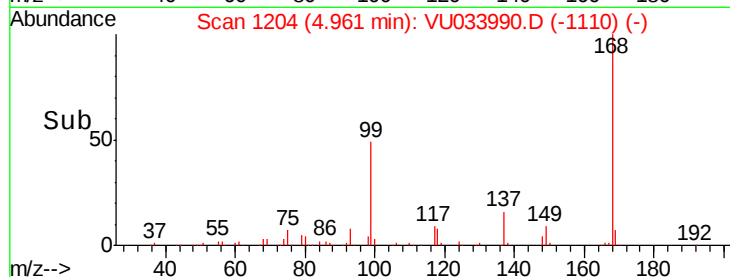
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 1.336 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU033990.D

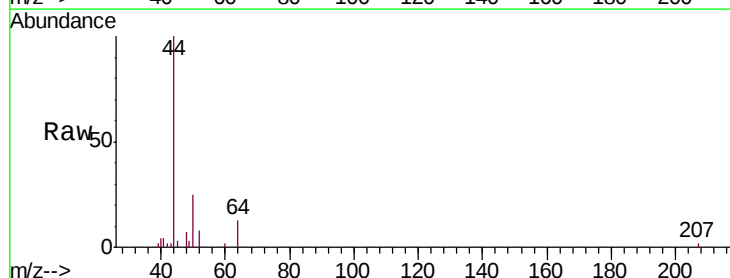
Acq: 27 Aug 2019 22:17

Tgt Ion: 50 Resp: 1879

Ion Ratio Lower Upper

50 100

52 32.8 26.2 39.2



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

Ion 51.90 (51.60 to 52.60): VU033990.D (-1) (-)

1.32

1500

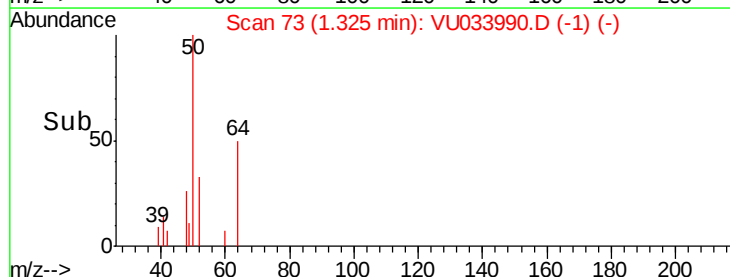
1000

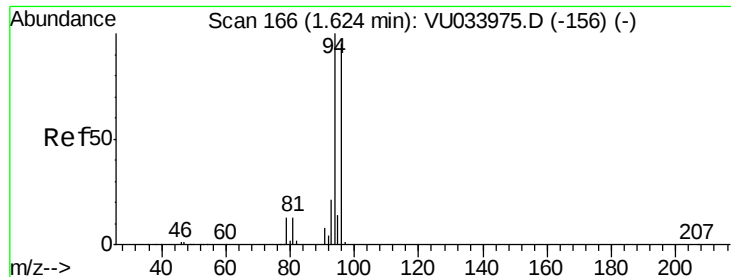
500

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.405 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

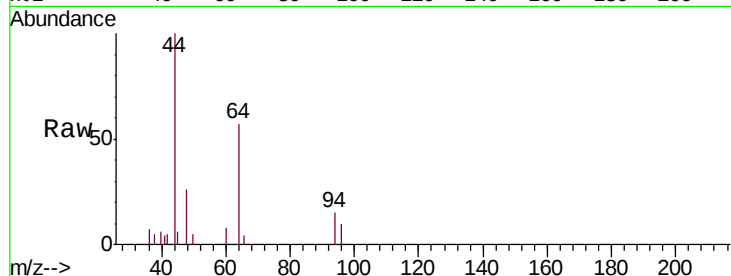
T1-S-B4-(2.5)

Tgt Ion: 94 Resp: 987

Ion Ratio Lower Upper

94 100

96 62.4 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

400

300

200

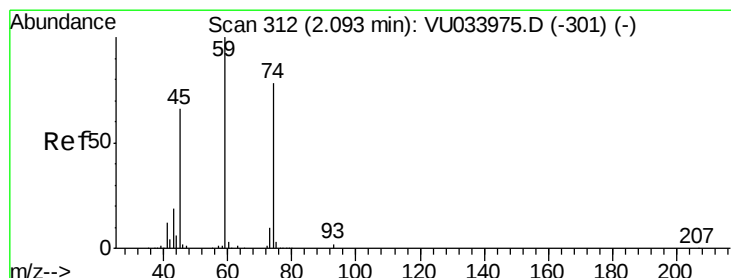
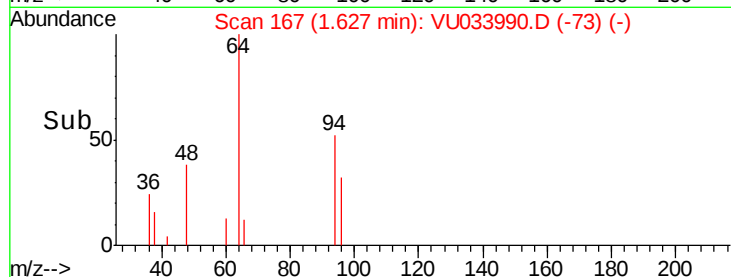
100

0

1.60

1.65

Time-->



#8

Diethyl Ether

Concen: 0.266 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU033990.D

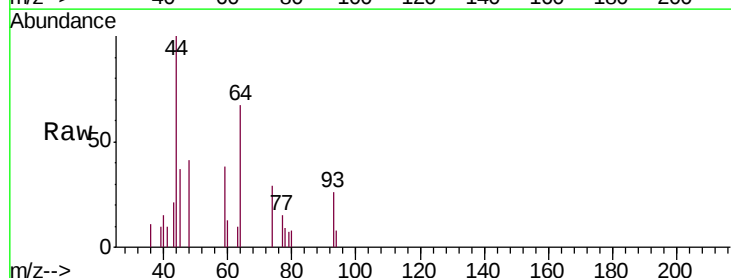
Acq: 27 Aug 2019 22:17

Tgt Ion: 74 Resp: 533

Ion Ratio Lower Upper

74 100

45 137.0 42.8 128.4#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

600

500

400

300

200

100

0

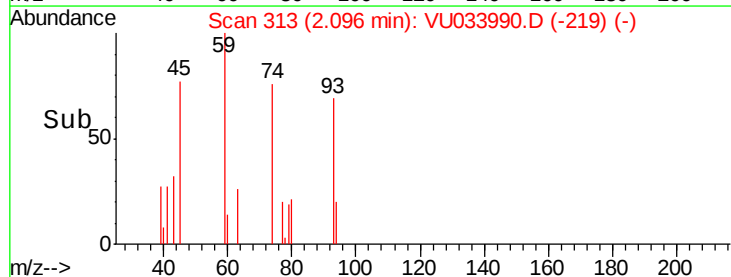
2.06

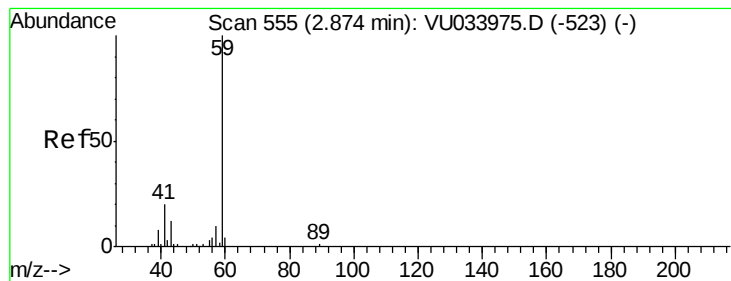
2.08

2.10

2.12

Time-->



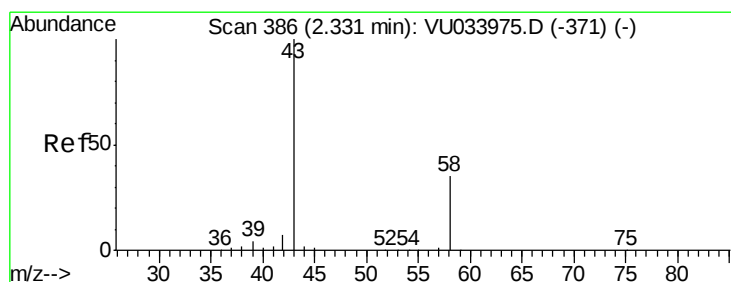
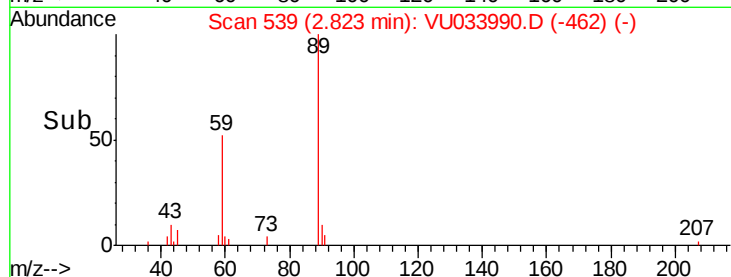
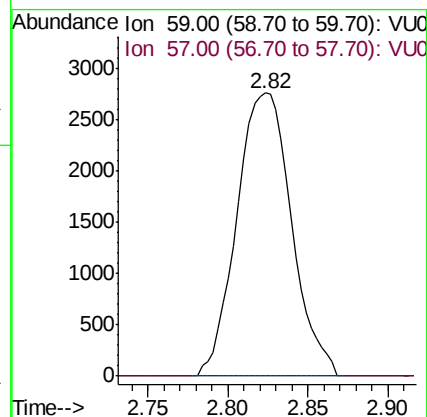
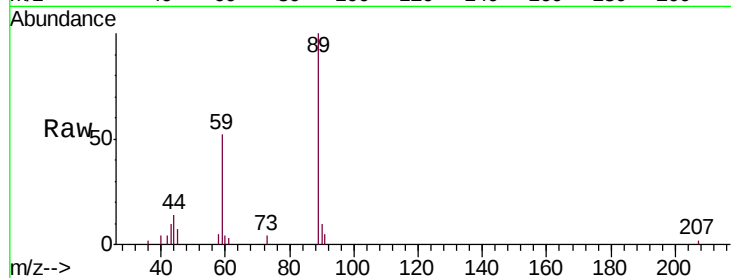


#11

Tert butyl alcohol
 Concen: 5.632 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. -0.05 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B4-(2.5)

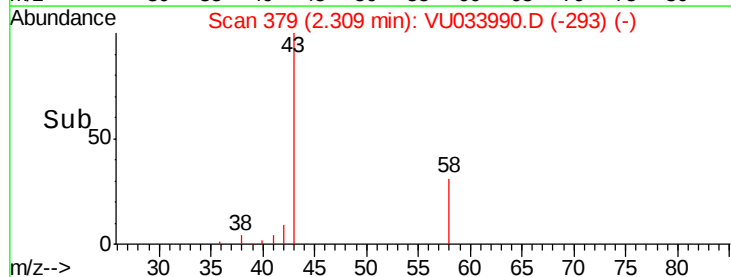
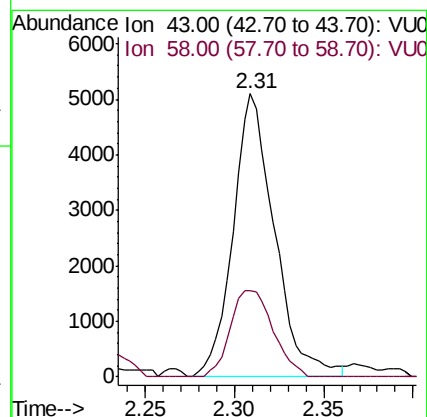
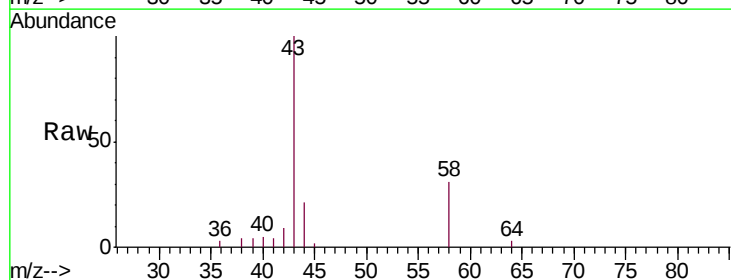
Tgt Ion: 59 Resp: 6476
 Ion Ratio Lower Upper
 59 100
 57 0.0 3.9 5.9#

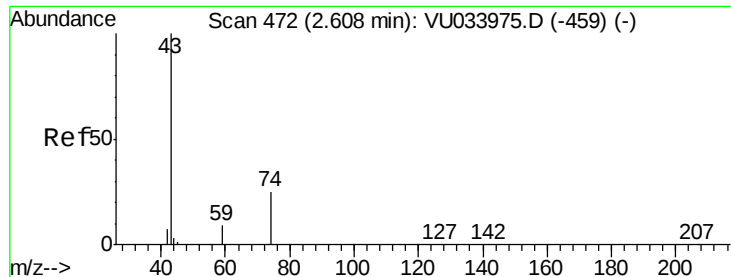


#16

Acetone
 Concen: 3.885 ug/l
 RT: 2.31 min Scan# 379
 Delta R.T. -0.02 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Tgt Ion: 43 Resp: 8254
 Ion Ratio Lower Upper
 43 100
 58 30.5 28.0 42.0

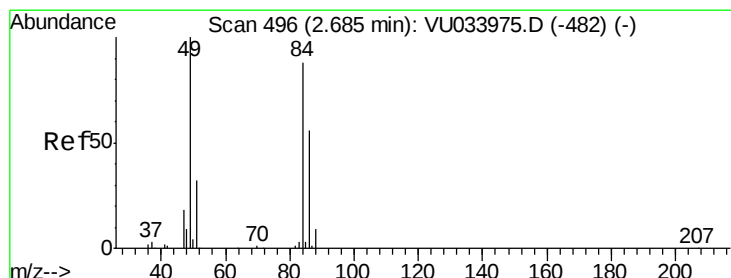
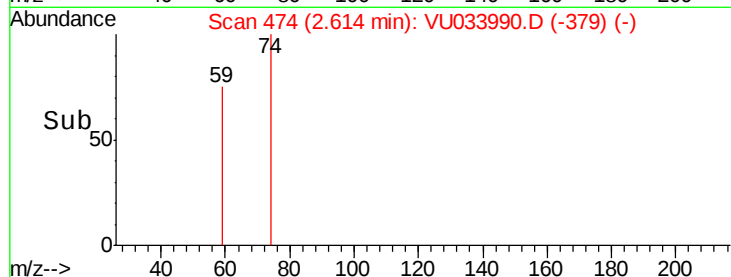
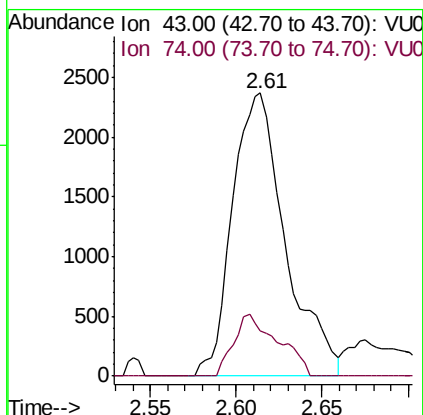
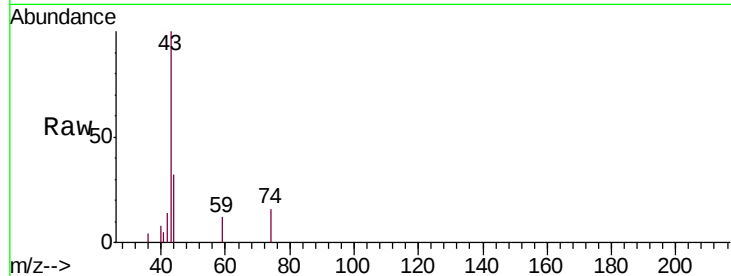




#18
Methyl Acetate
Concen: 0.969 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU033990.D
Acq: 27 Aug 2019 22:17

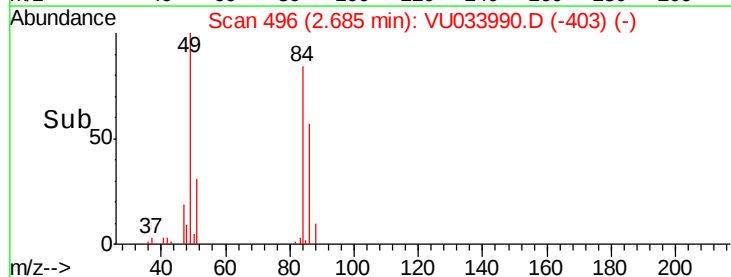
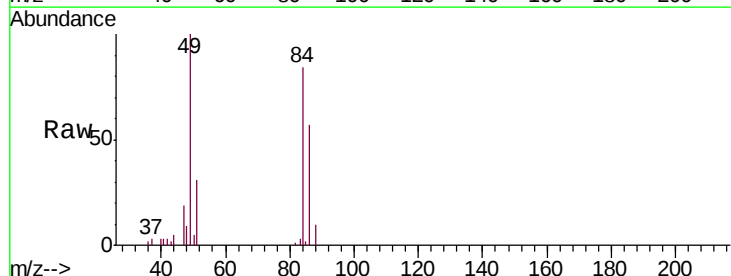
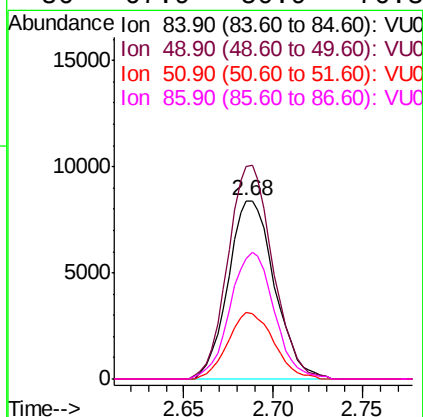
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(2.5)

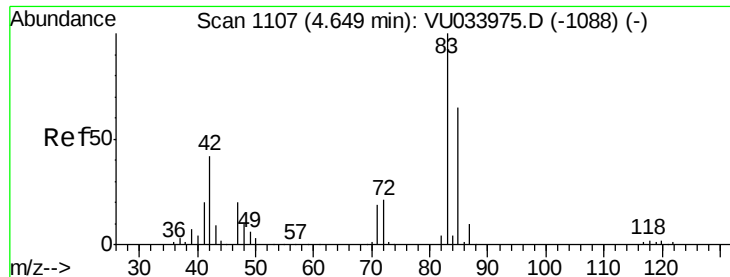
Tgt Ion: 43 Resp: 5070
Ion Ratio Lower Upper
43 100
74 18.2 20.5 30.7#



#20
Methylene Chloride
Concen: 3.367 ug/l
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033990.D
Acq: 27 Aug 2019 22:17

Tgt Ion: 84 Resp: 15178
Ion Ratio Lower Upper
84 100
49 119.2 91.3 136.9
51 37.3 28.9 43.3
86 67.9 50.9 76.3





#30

Chloroform

Concen: 0.319 ug/l

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

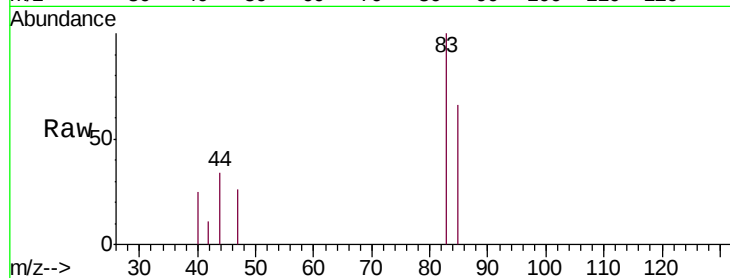
T1-S-B4-(2.5)

Tgt Ion: 83 Resp: 2344

Ion Ratio Lower Upper

83 100

85 66.3 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VU033990.D (-1104) (-)

Ion 84.90 (84.60 to 85.60): VU033990.D (-1104) (-)

4.66

1200

1000

800

600

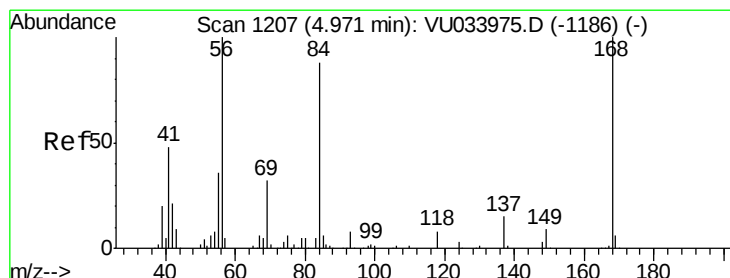
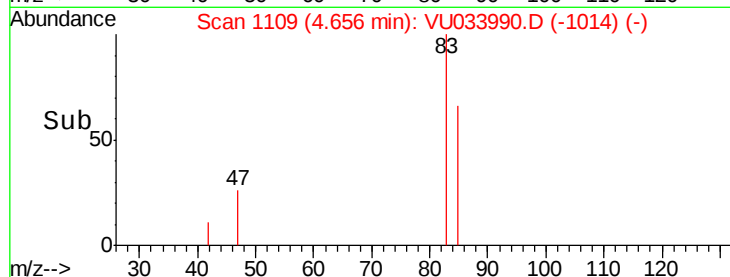
400

200

0

Time-->

4.60 4.65 4.70



#31

Cyclohexane

Concen: 0.981 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

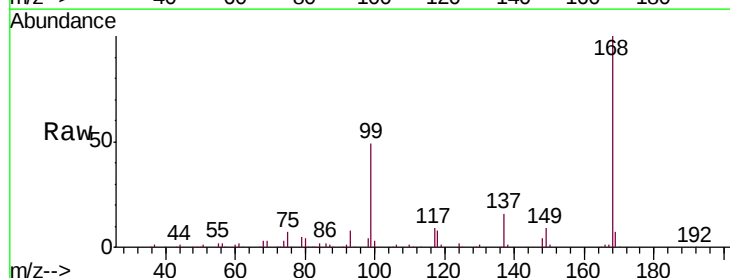
Tgt Ion: 56 Resp: 6421

Ion Ratio Lower Upper

56 100

69 206.1 25.9 38.9#

84 145.7 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VU033990.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU033990.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU033990.D (-1114) (-)

8000

6000

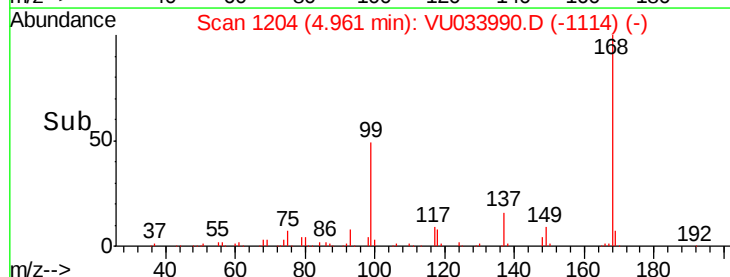
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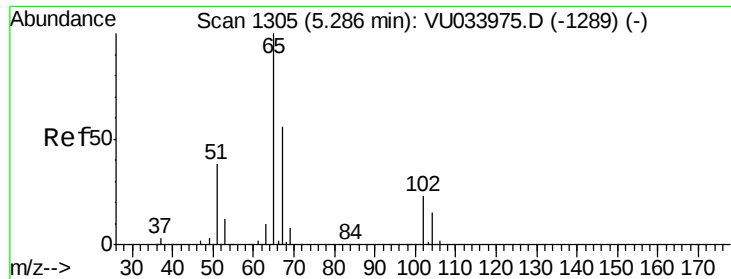
2000

0

Time-->

4.90 4.95 5.00 5.05

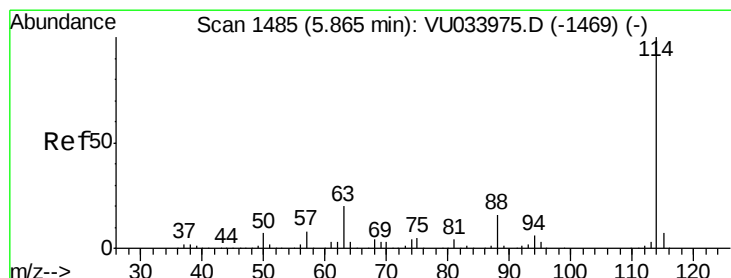
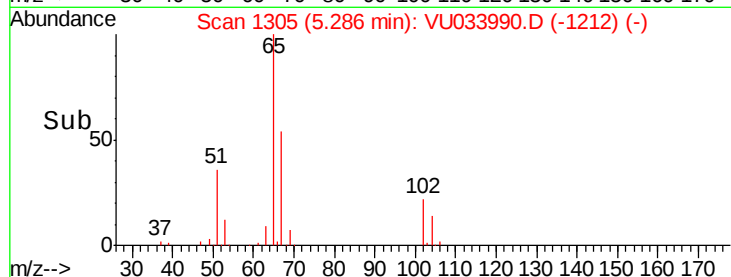
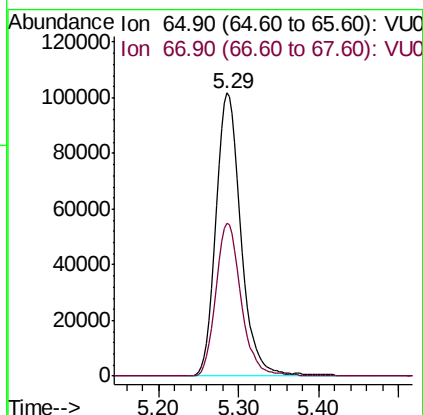
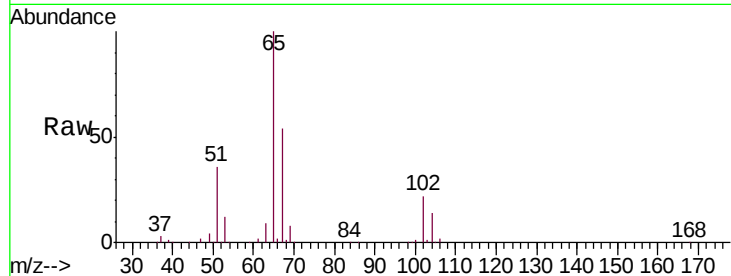




#33
 1,2-Dichloroethane-d4
 Concen: 49.775 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

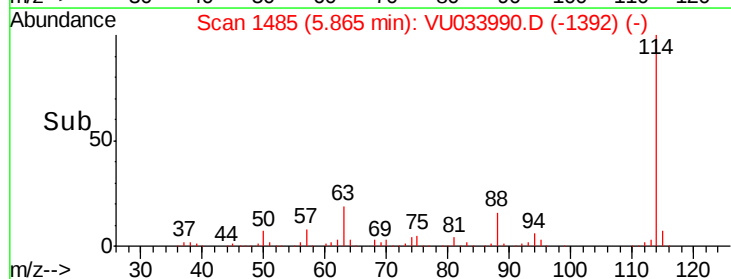
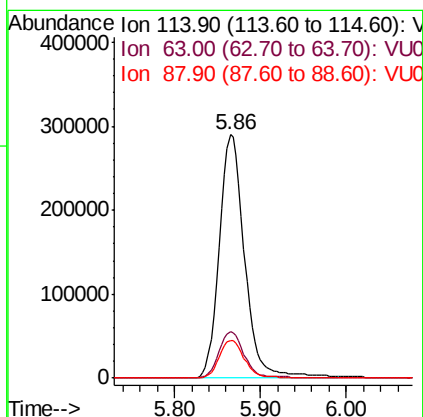
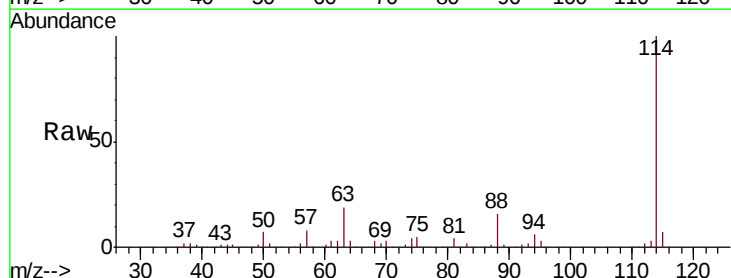
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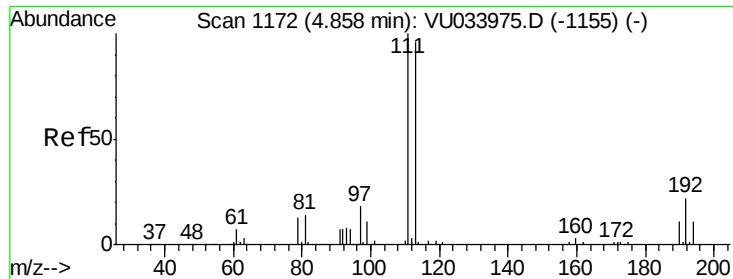
Tgt Ion: 65 Resp: 220951
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Tgt Ion: 114 Resp: 596485
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.6 0.0 31.2

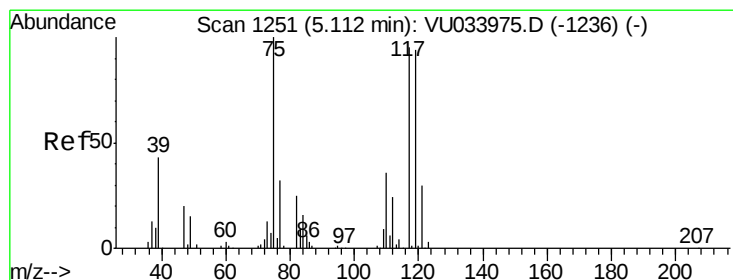
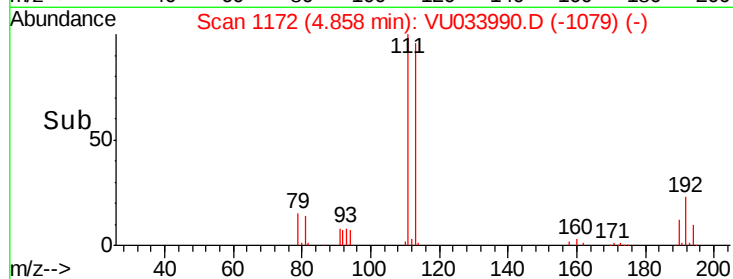
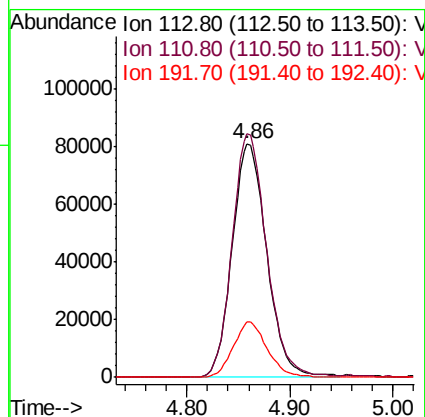
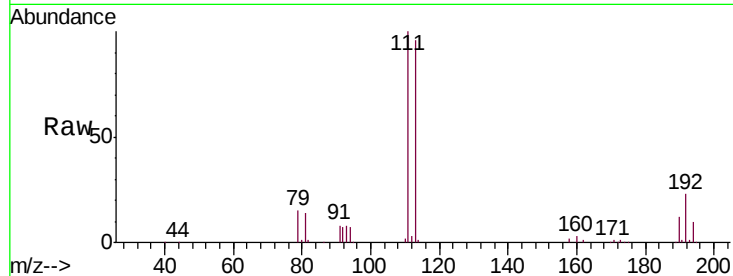




#35
 Dibromofluoromethane
 Concen: 47.267 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

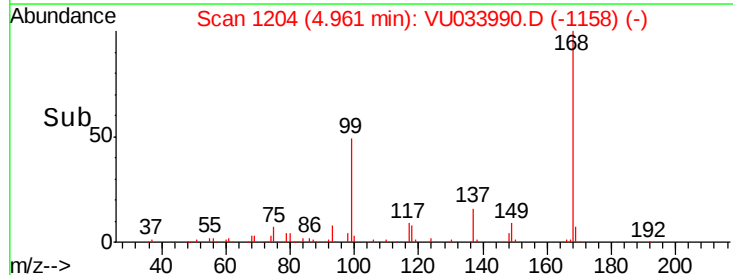
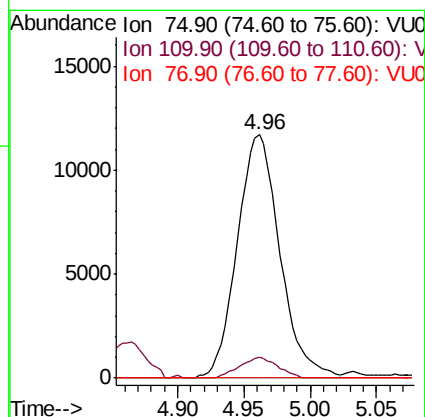
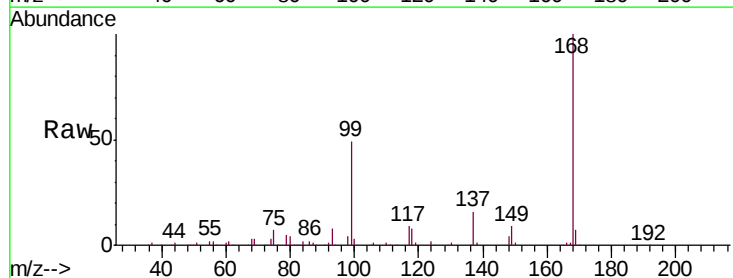
Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B4-(2.5)

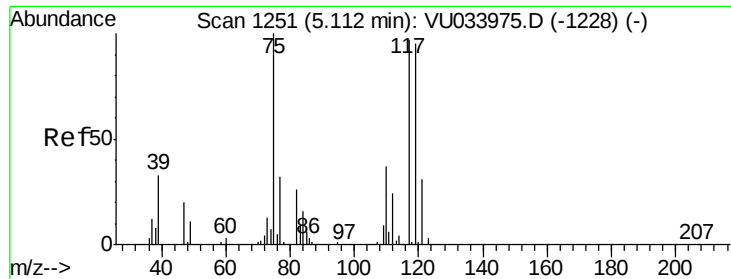
Tgt Ion:113 Resp: 189520
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.7 122.5
 192 23.2 18.6 27.8



#36
 1,1-Dichloropropene
 Concen: 4.806 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Tgt Ion: 75 Resp: 26256
 Ion Ratio Lower Upper
 75 100
 110 7.5 18.2 54.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.145 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(2.5)

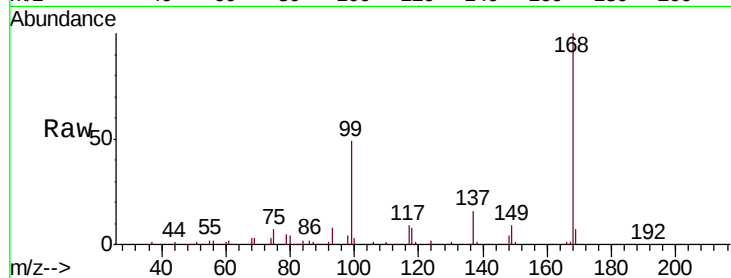
Tgt Ion:117 Resp: 34212

Ion Ratio Lower Upper

117 100

119 5.8 78.4 117.6#

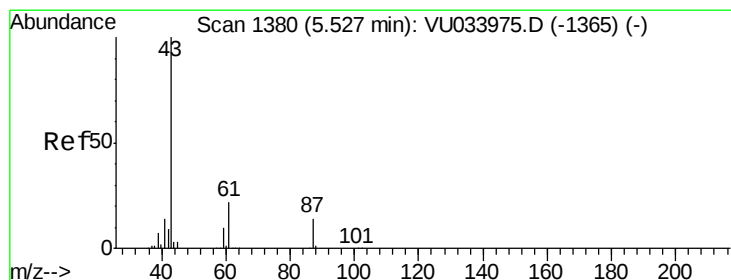
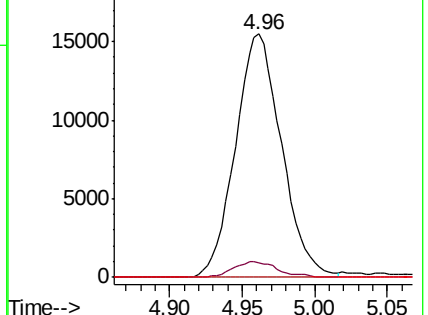
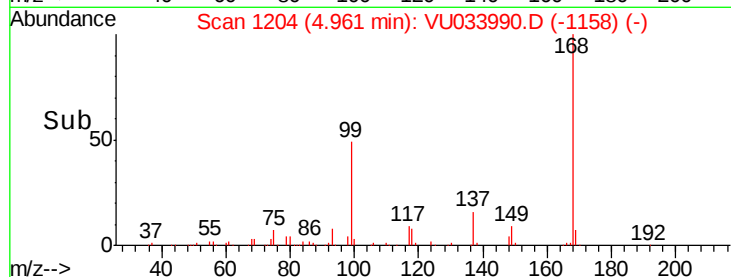
121 0.0 25.4 38.2#



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



#43

Isopropyl Acetate

Concen: 7.487 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

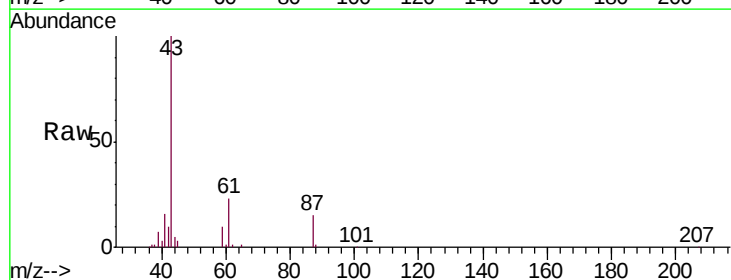
Tgt Ion: 43 Resp: 62908

Ion Ratio Lower Upper

43 100

61 22.8 17.8 26.8

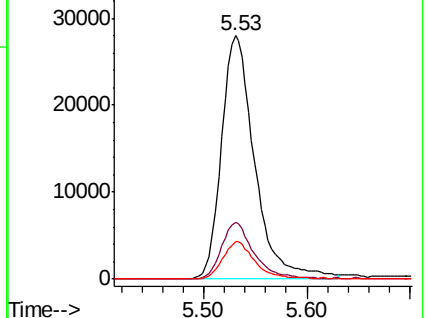
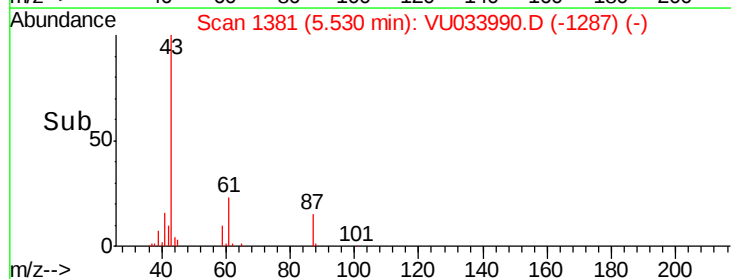
87 14.8 11.9 17.9

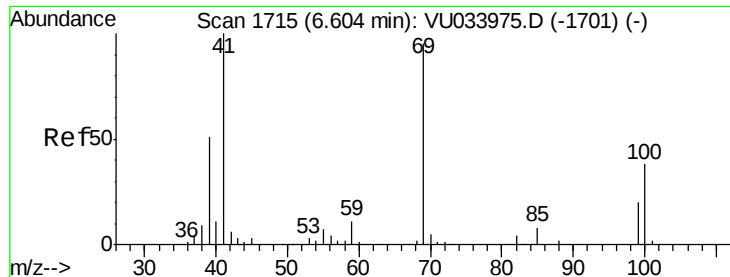


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 1.346 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.08 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(2.5)

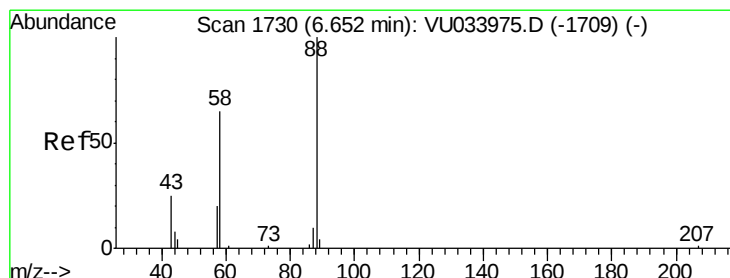
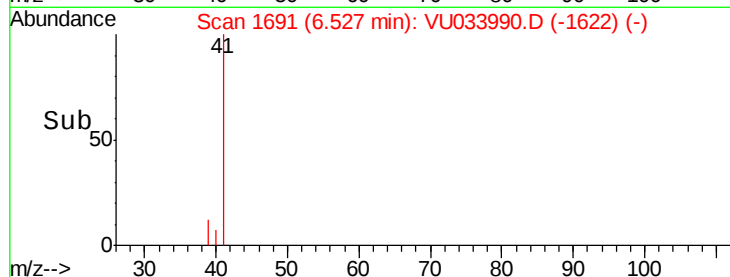
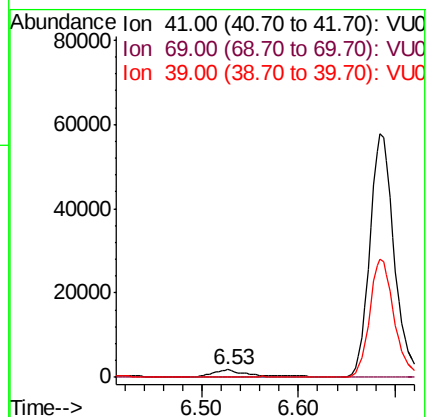
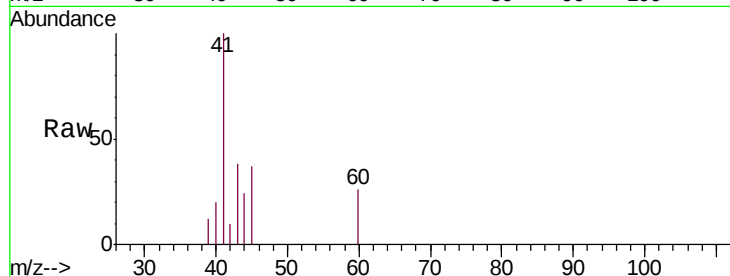
Tgt Ion: 41 Resp: 5376

Ion Ratio Lower Upper

41 100

69 0.0 76.3 114.5#

39 0.0 41.1 61.7#



#49

1,4-Dioxane

Concen: 0.474 ug/l

RT: 6.69 min Scan# 1742

Delta R.T. 0.04 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

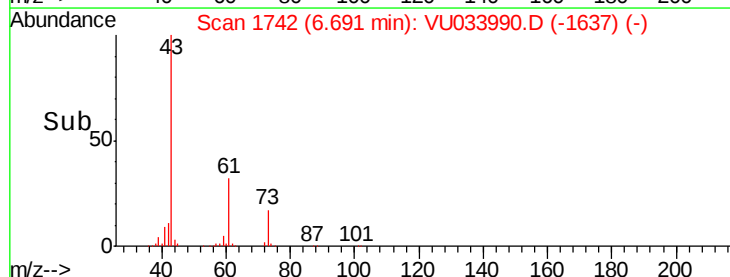
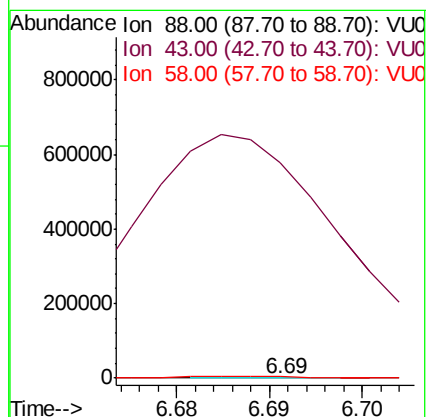
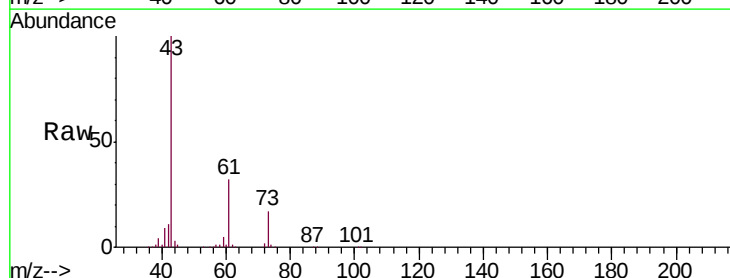
Tgt Ion: 88 Resp: 52

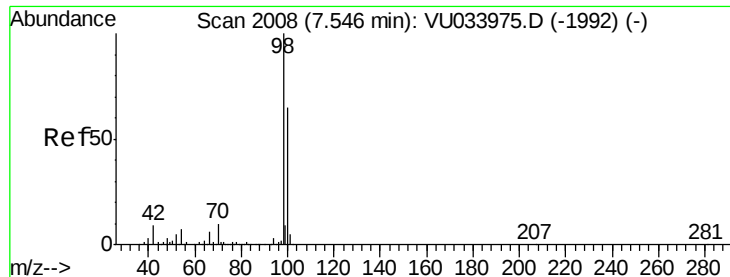
Ion Ratio Lower Upper

88 100

43 2253063.5 0.0 0.0#

58 11580.8 56.6 85.0#

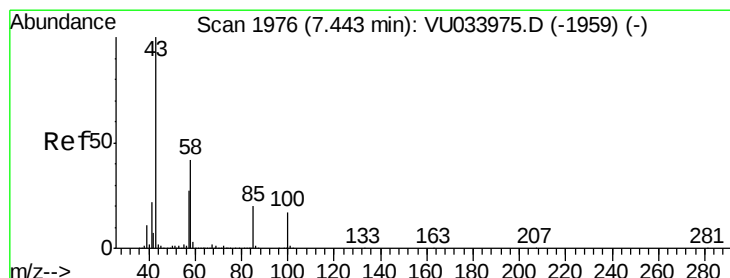
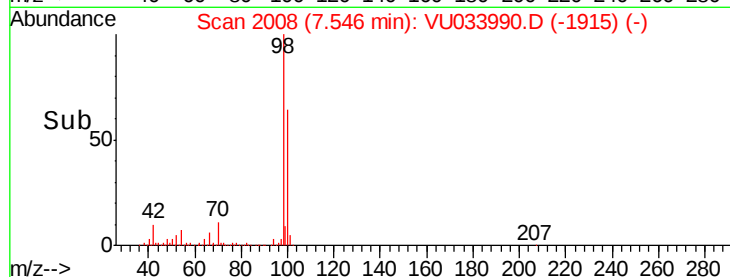
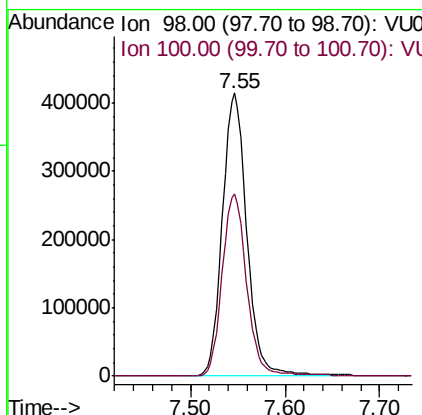
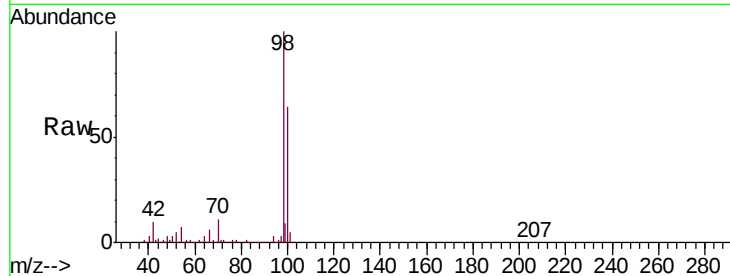




#50
Toluene-d8
Concen: 50.535 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU033990.D
Acq: 27 Aug 2019 22:17

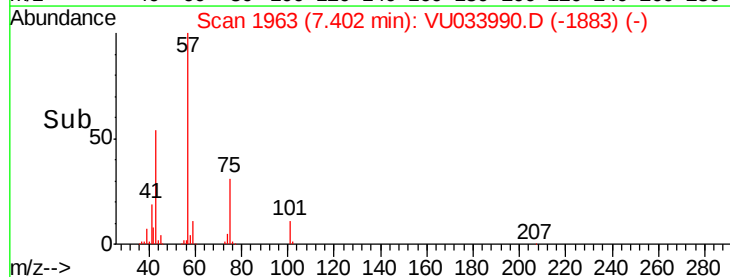
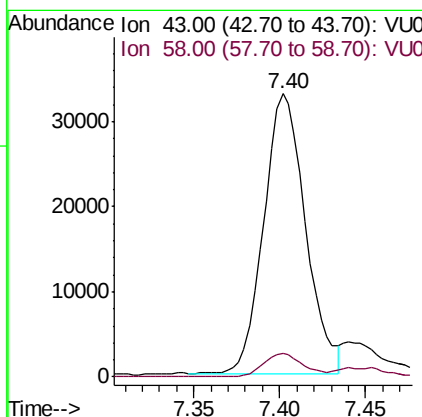
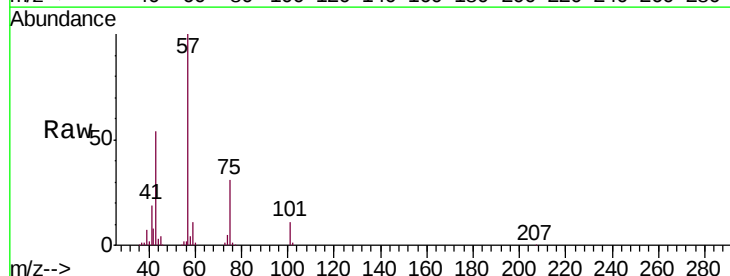
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(2.5)

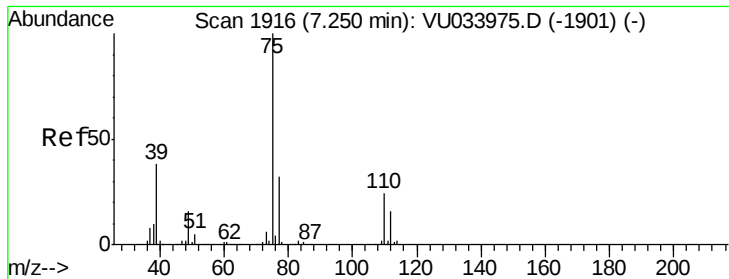
Tgt Ion: 98 Resp: 747357
Ion Ratio Lower Upper
98 100
100 64.7 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 9.549 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU033990.D
Acq: 27 Aug 2019 22:17

Tgt Ion: 43 Resp: 55315
Ion Ratio Lower Upper
43 100
58 7.9 33.6 50.4#



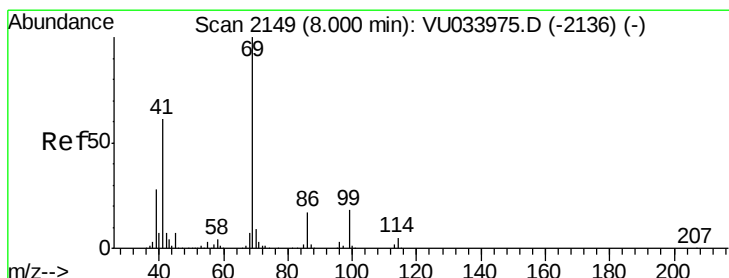
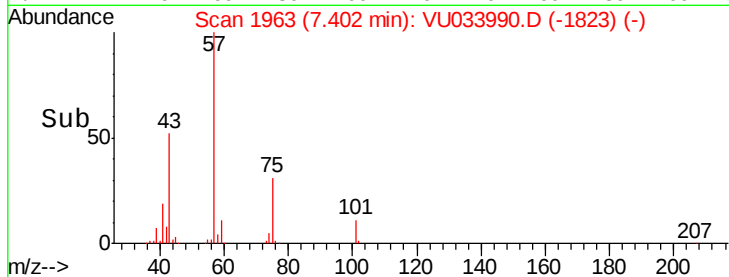
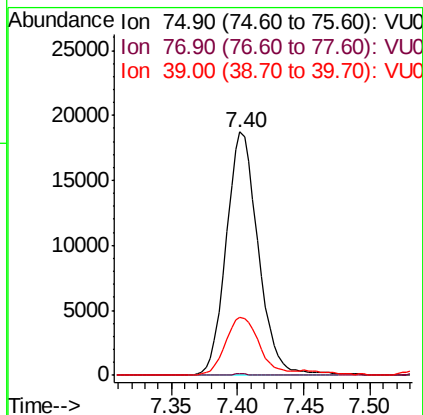
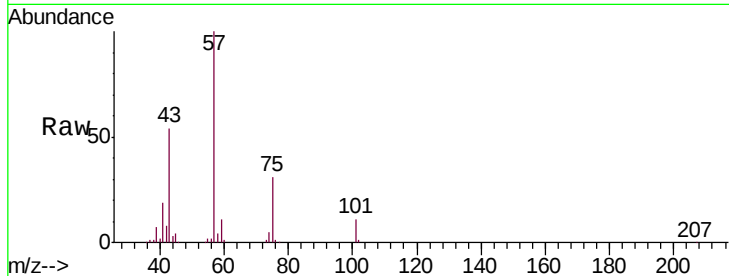


#54

cis-1,3-Dichloropropene
 Concen: 4.670 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B4-(2.5)

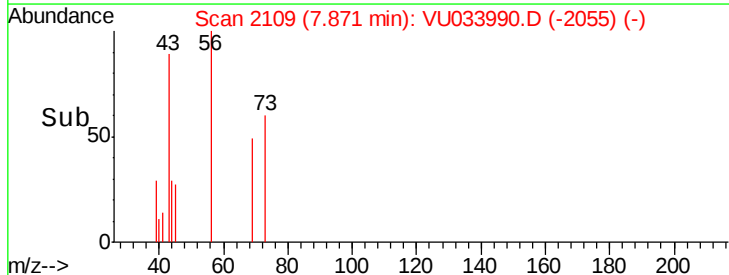
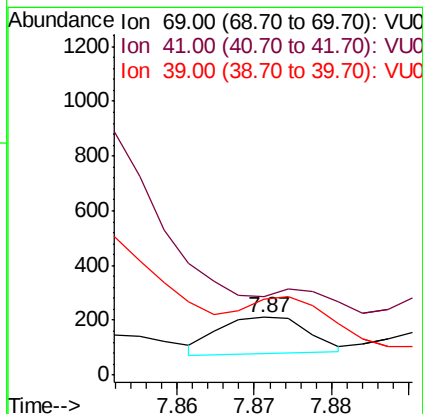
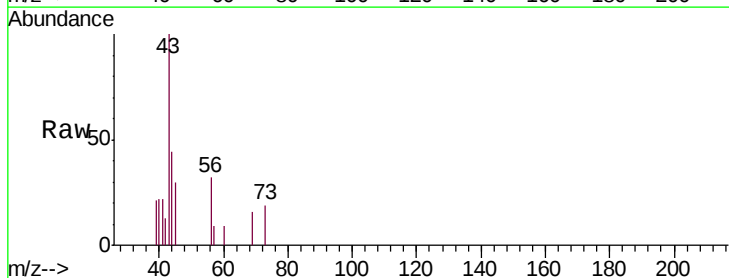
Tgt Ion: 75 Resp: 31428
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.6 38.4#
 39 23.6 30.7 46.1#

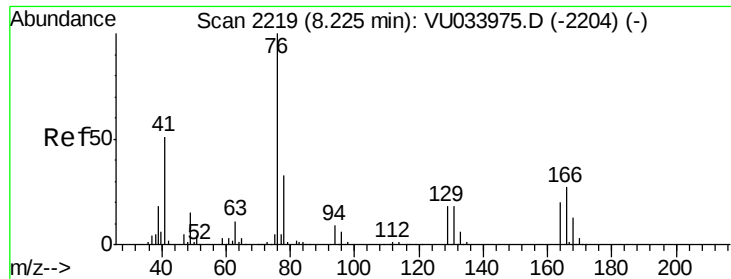


#56

Ethyl methacrylate
 Concen: 2.529 ug/l
 RT: 7.87 min Scan# 2109
 Delta R.T. -0.13 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Tgt Ion: 69 Resp: 106
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.6 72.8#
 39 0.0 22.4 33.6#

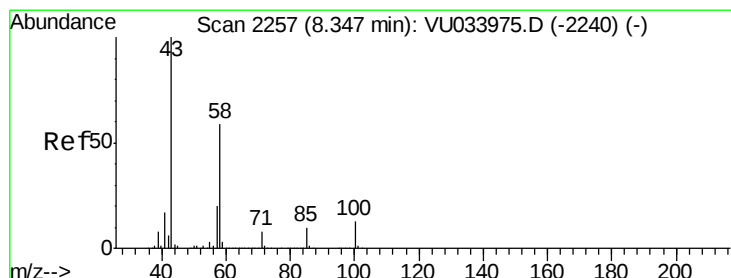
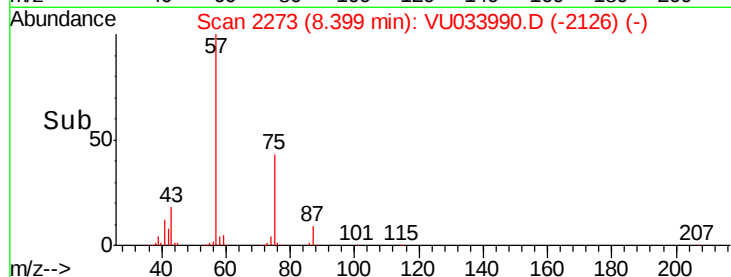
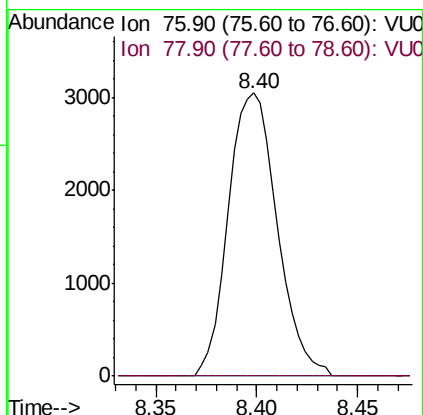
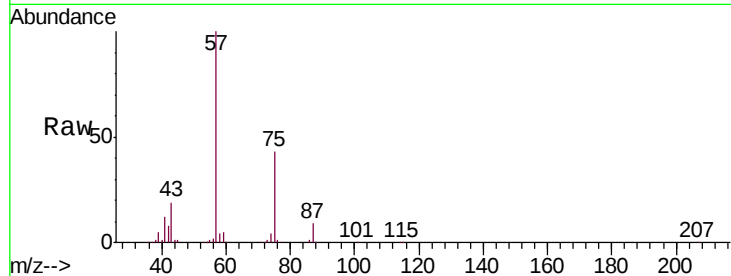




#57
 1,3-Dichloropropane
 Concen: 0.732 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.17 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

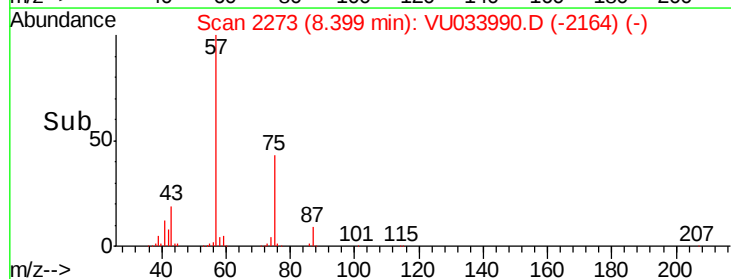
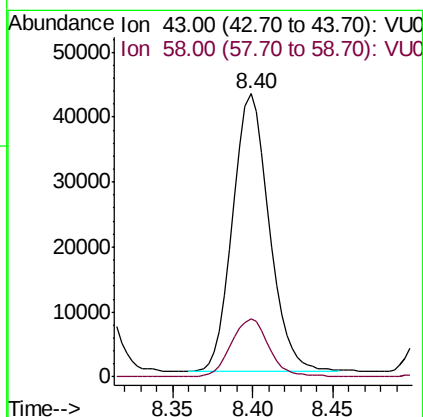
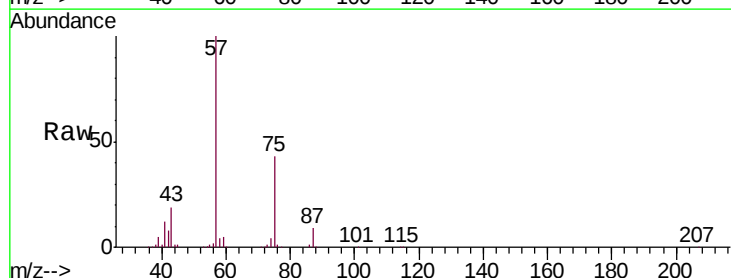
Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B4-(2.5)

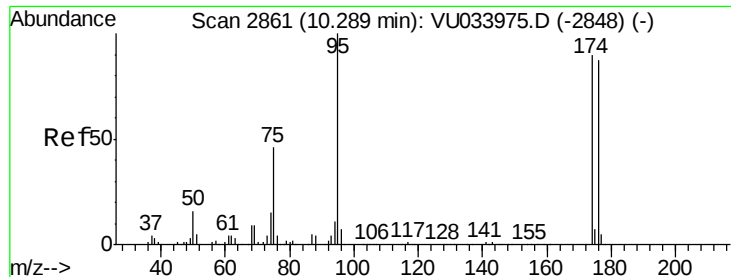
Tgt Ion: 76 Resp: 5165
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 14.975 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU033990.D
 Acq: 27 Aug 2019 22:17

Tgt Ion: 43 Resp: 66678
 Ion Ratio Lower Upper
 43 100
 58 21.7 29.5 88.6#





#62

4-Bromofluorobenzene

Concen: 45.304 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(2.5)

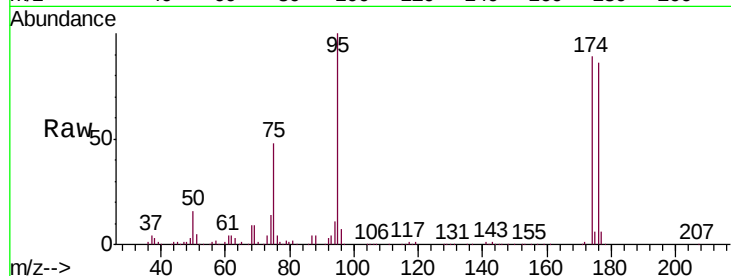
Tgt Ion: 95 Resp: 257009

Ion Ratio Lower Upper

95 100

174 89.8 0.0 183.8

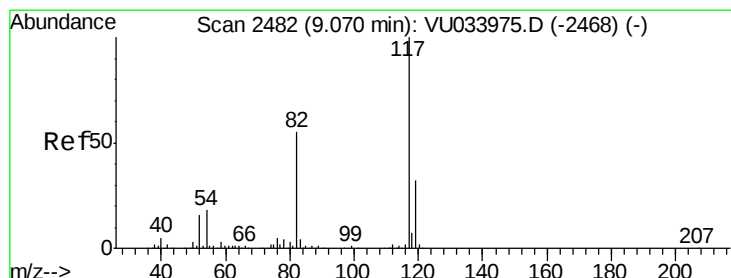
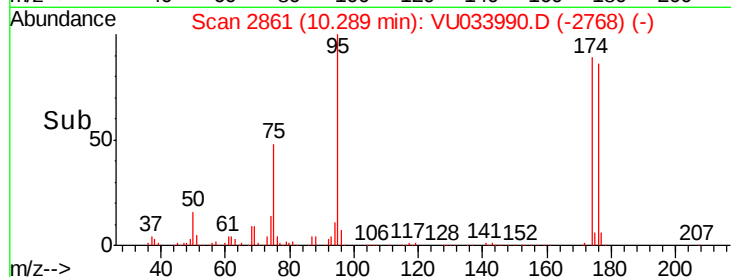
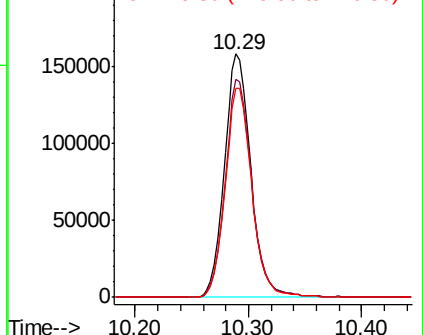
176 86.6 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

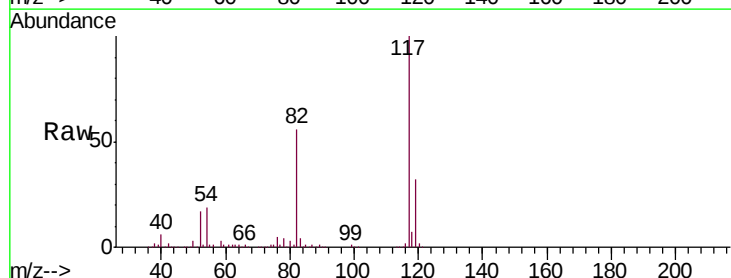
Tgt Ion: 117 Resp: 580059

Ion Ratio Lower Upper

117 100

82 55.5 43.8 65.8

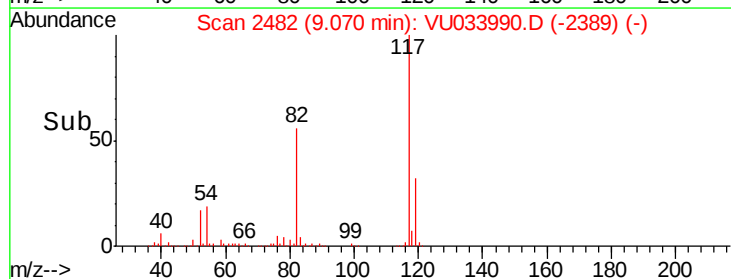
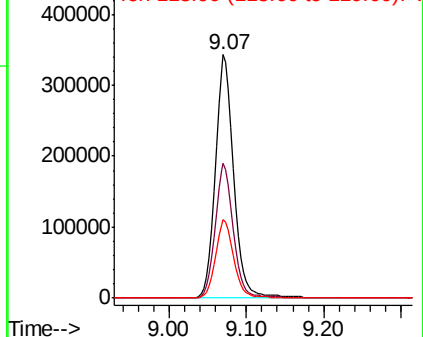
119 32.3 25.7 38.5

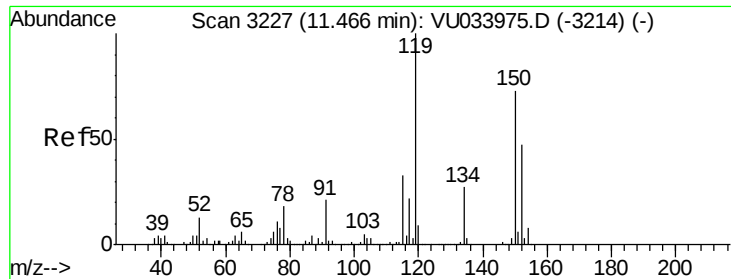


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

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: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(2.5)

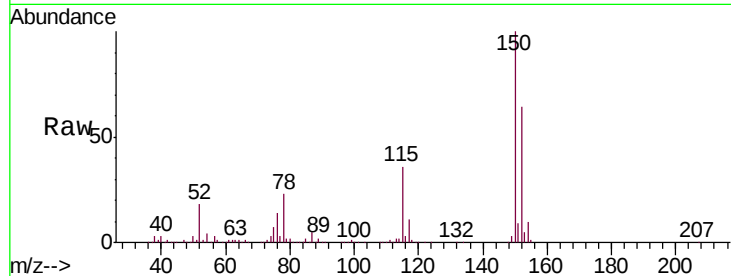
Tgt Ion:152 Resp: 269516

Ion Ratio Lower Upper

152 100

115 55.2 38.6 115.7

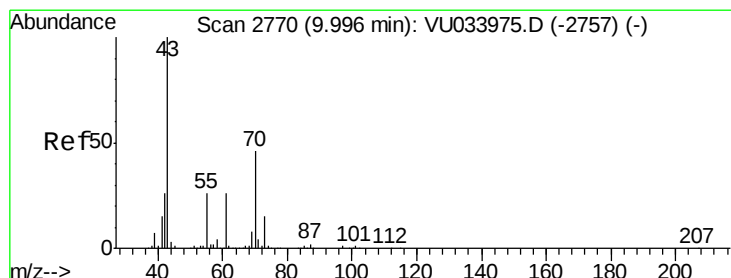
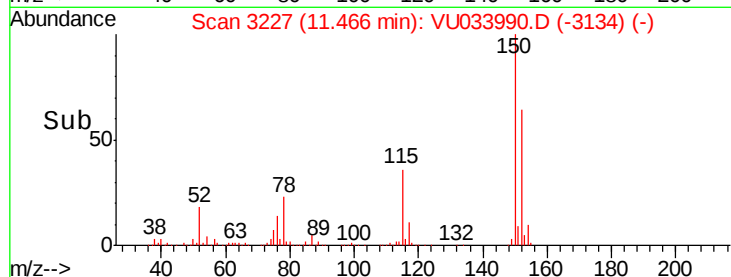
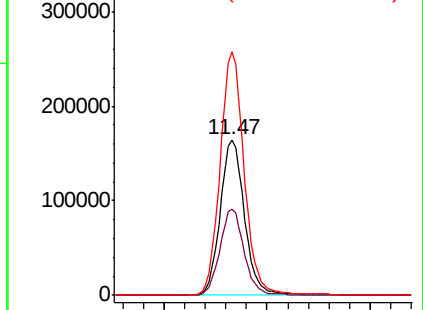
150 155.4 0.0 343.8



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: 0.222 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Tgt Ion: 43 Resp: 1448

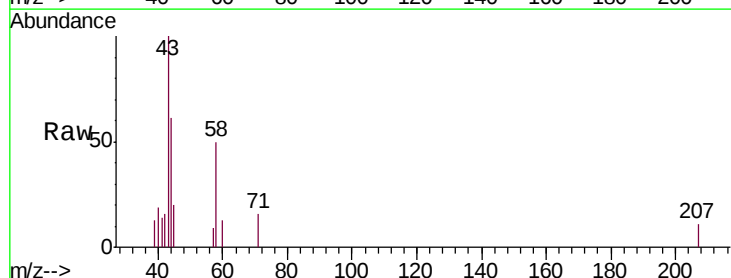
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 3.2 21.0 31.4#

61 0.0 20.9 31.3#

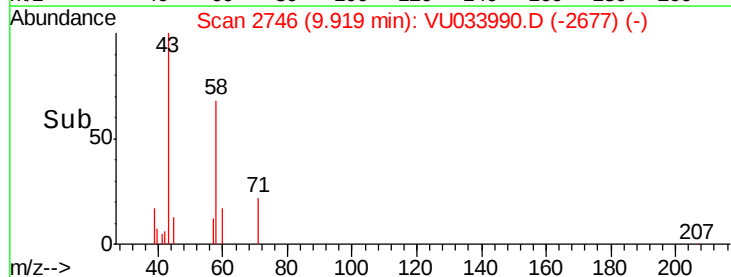
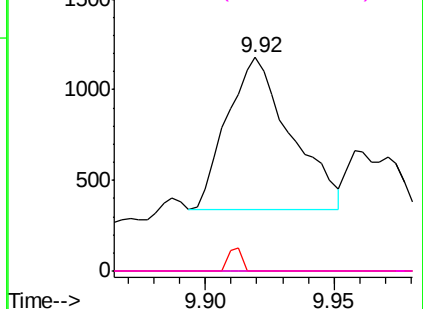


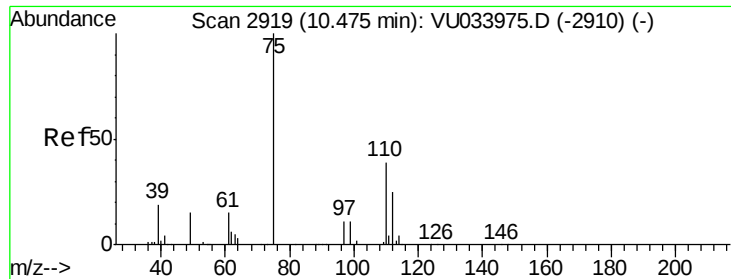
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.690 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

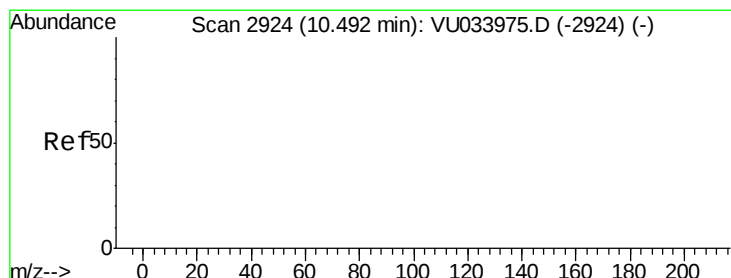
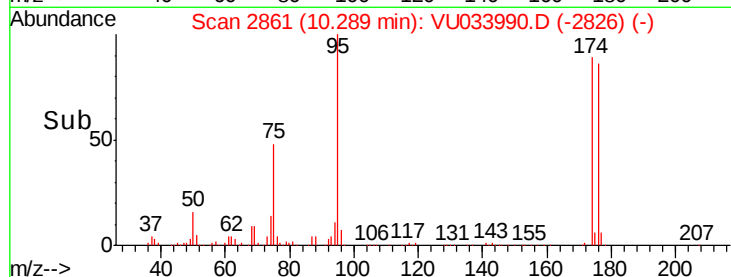
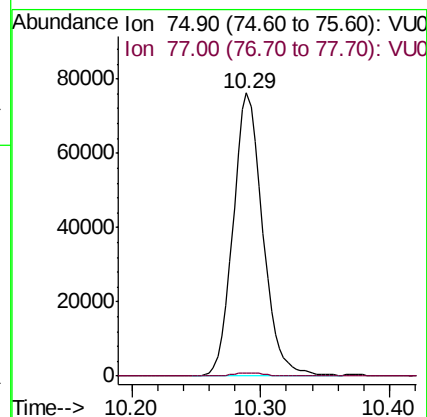
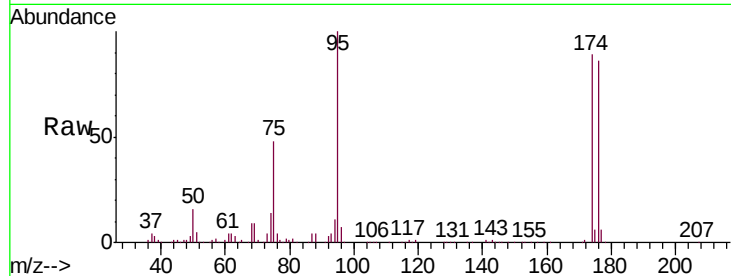
T1-S-B4-(2.5)

Tgt Ion: 75 Resp: 121849

Ion Ratio Lower Upper

75 100

77 1.2 21.0 63.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.990 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU033990.D

Acq: 27 Aug 2019 22:17

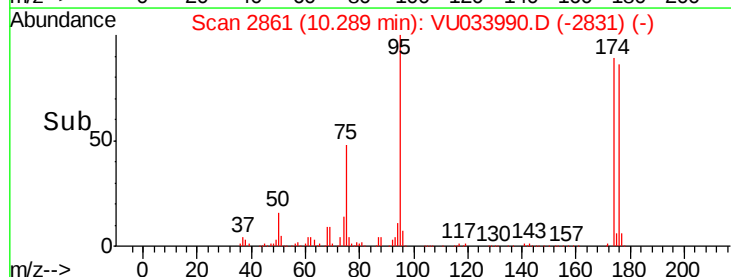
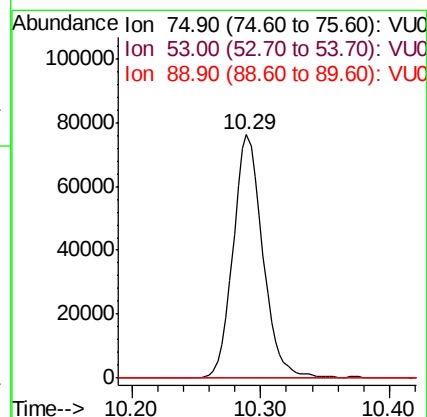
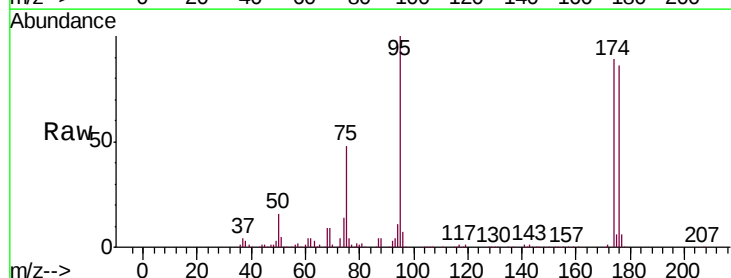
Tgt Ion: 75 Resp: 121849

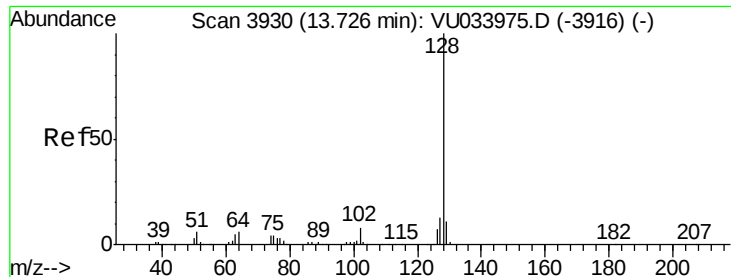
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 2.084 ug/l

RT: 13.81 min Scan# 3957

Delta R.T. 0.09 min

Lab File: VU033990.D

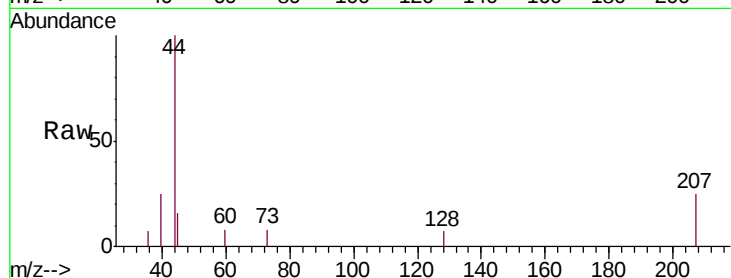
Acq: 27 Aug 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(2.5)



Tgt Ion:128 Resp: 19

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.5 12.7#

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

