

Data File : VU033989.D
Acq On : 27 Aug 2019 21:53
Operator : JC/SP
Sample : K4516-25
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(0)

Quant Time: Aug 28 04:08:11 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	388817	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	569688	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	545882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	250361	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	210943	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
35) Dibromofluoromethane	4.86	113	181757	47.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.92%	
50) Toluene-d8	7.55	98	712242	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
62) 4-Bromofluorobenzene	10.29	95	238072	43.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.88%	

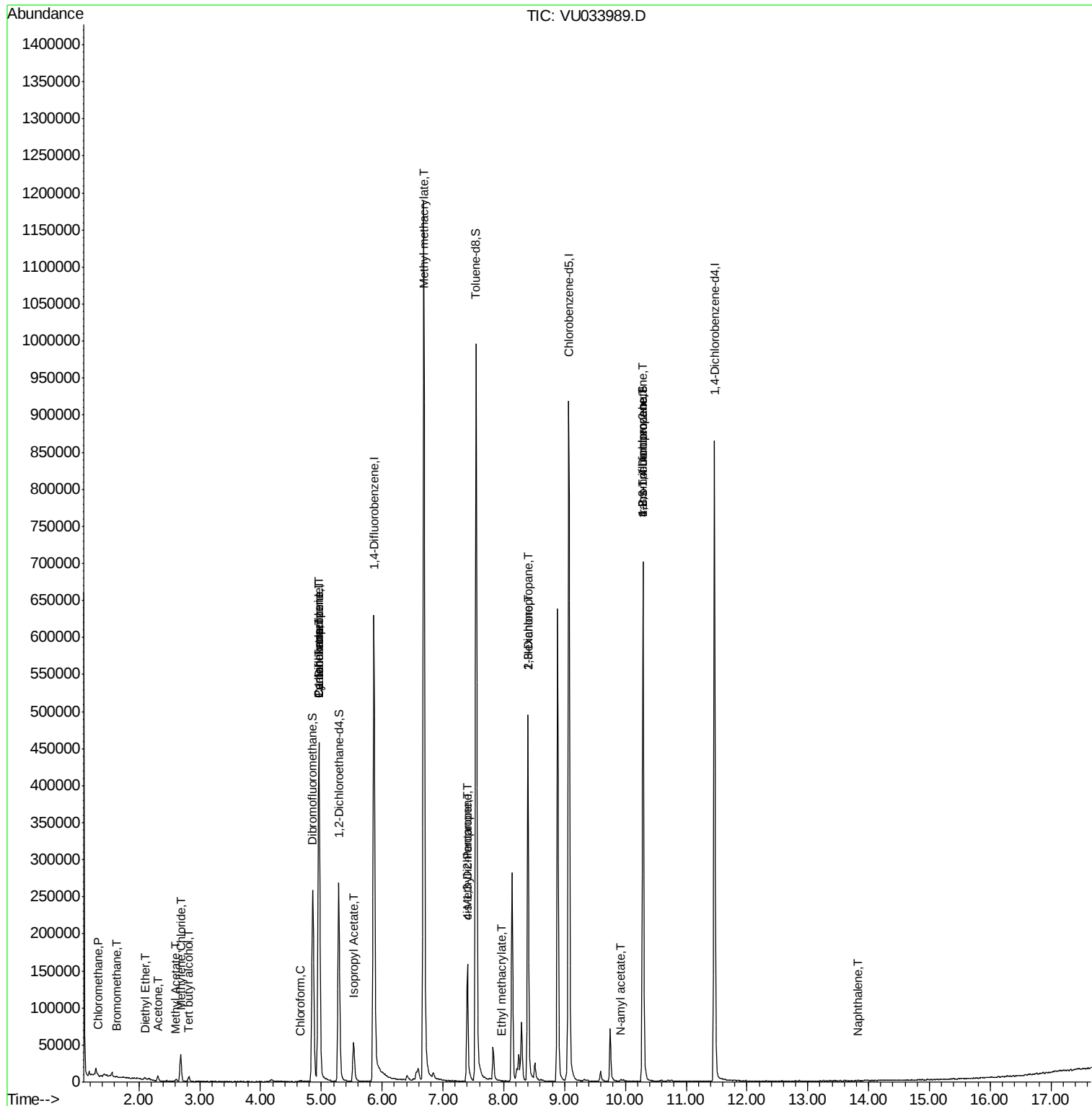
Target Compounds				Qvalue		
3) Chloromethane	1.32	50	1979	1.371	ug/l	93
5) Bromomethane	1.62	94	855	0.360	ug/l	90
8) Diethyl Ether	2.09	74	660	0.339	ug/l #	28
11) Tert butyl alcohol	2.82	59	4247	3.796	ug/l #	85
16) Acetone	2.31	43	7883	3.813	ug/l	90
18) Methyl Acetate	2.60	43	4476	0.879	ug/l	97
20) Methylene Chloride	2.69	84	16131	3.677	ug/l	97
30) Chloroform	4.65	83	1677	0.235	ug/l	89
31) Cyclohexane	4.96	56	6042	0.949	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	25542	4.895	ug/l #	49
38) Carbon Tetrachloride	4.96	117	33387	6.279	ug/l #	15
43) Isopropyl Acetate	5.53	43	62885	7.837	ug/l	98
48) Methyl methacrylate	6.68	41	102514	26.870	ug/l #	34
51) 4-Methyl-2-Pentanone	7.40	43	53136	9.604	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	30223	4.703	ug/l #	64
56) Ethyl methacrylate	7.96	69	79	2.526	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	5272	0.783	ug/l #	43
59) 2-Hexanone	8.40	43	64564	15.182	ug/l #	51
74) N-amyl acetate	9.92	43	1804	0.298	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	111112	22.274	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	111112	63.798	ug/l #	100
95) Naphthalene	13.82	128	39	2.085	ug/l #	70

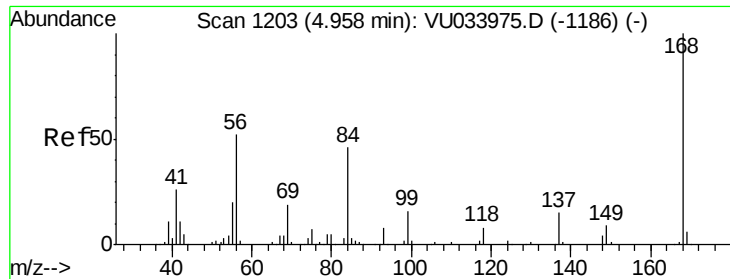
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

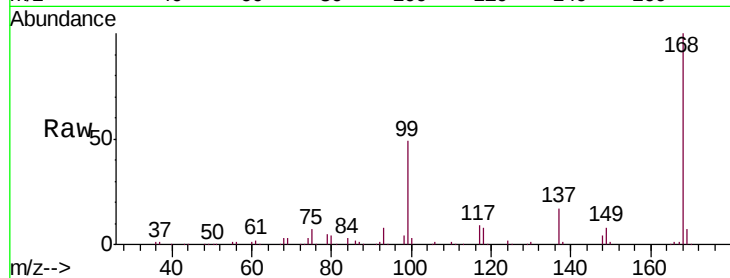
T1-S-B4-(0)

Tgt Ion:168 Resp: 388817

Ion Ratio Lower Upper

168 100

99 49.1 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

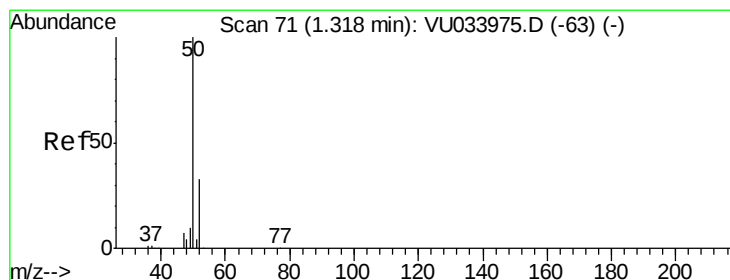
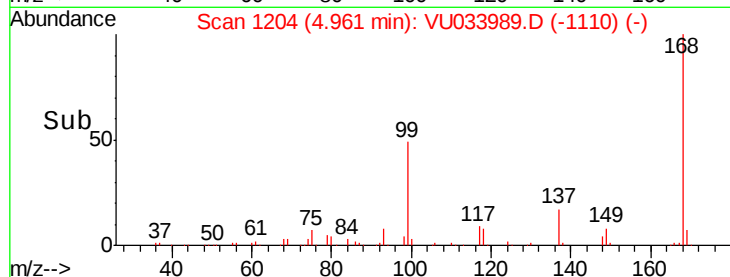
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.371 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU033989.D

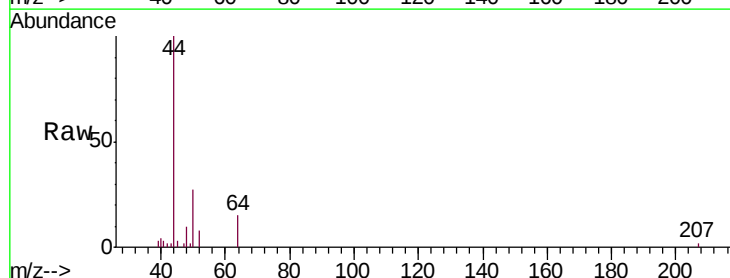
Acq: 27 Aug 2019 21:53

Tgt Ion: 50 Resp: 1979

Ion Ratio Lower Upper

50 100

52 28.5 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

2000

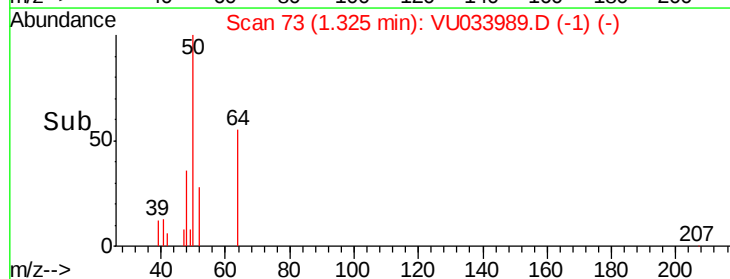
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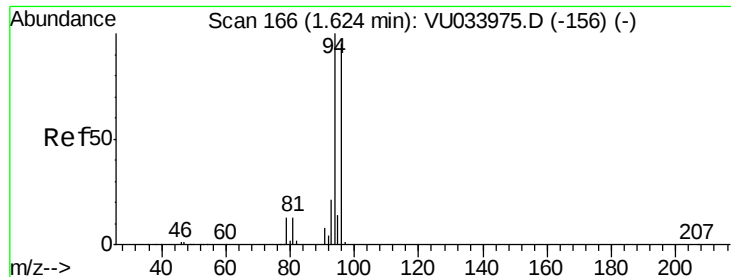
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.360 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

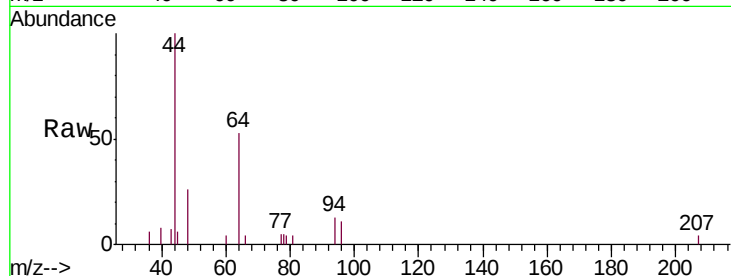
T1-S-B4-(0)

Tgt Ion: 94 Resp: 855

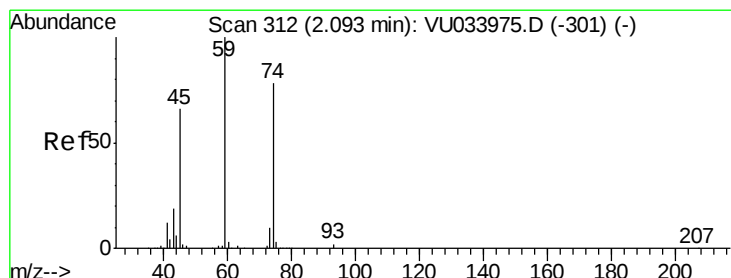
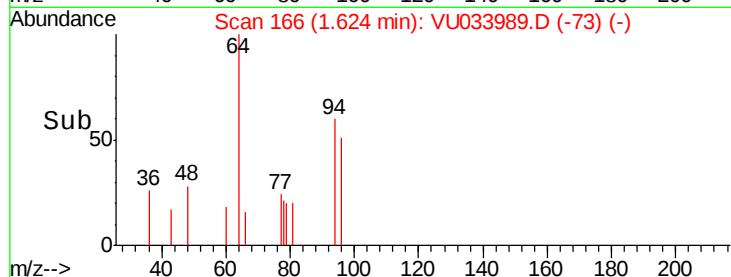
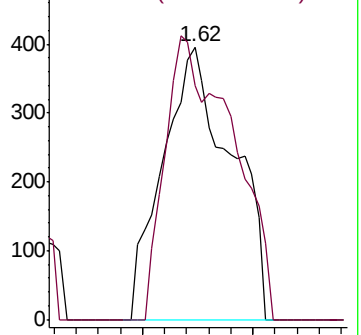
Ion Ratio Lower Upper

94 100

96 85.9 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU033975.D (-156) (-)



#8

Diethyl Ether

Concen: 0.339 ug/l

RT: 2.09 min Scan# 311

Delta R.T. -0.00 min

Lab File: VU033989.D

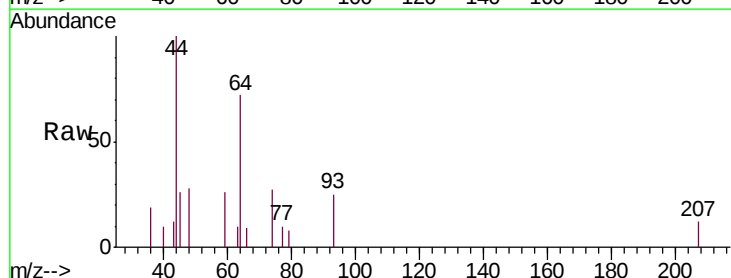
Acq: 27 Aug 2019 21:53

Tgt Ion: 74 Resp: 660

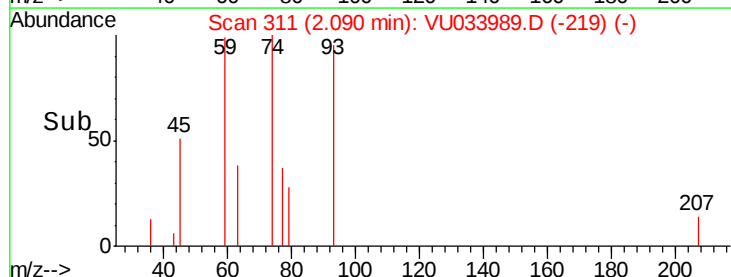
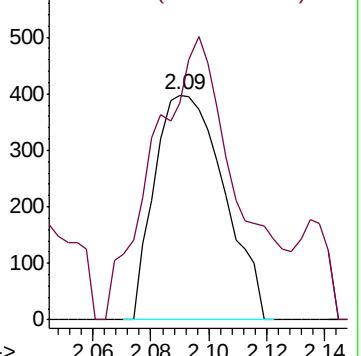
Ion Ratio Lower Upper

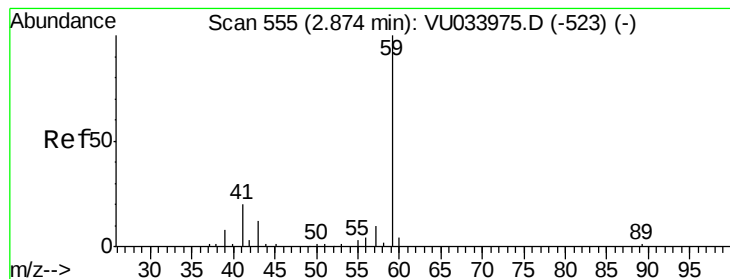
74 100

45 151.8 42.8 128.4#



Abundance Ion 74.00 (73.70 to 74.70): VU033975.D (-301) (-)





#11

Tert butyl alcohol

Concen: 3.796 ug/l

RT: 2.82 min Scan# 538

Delta R.T. -0.05 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

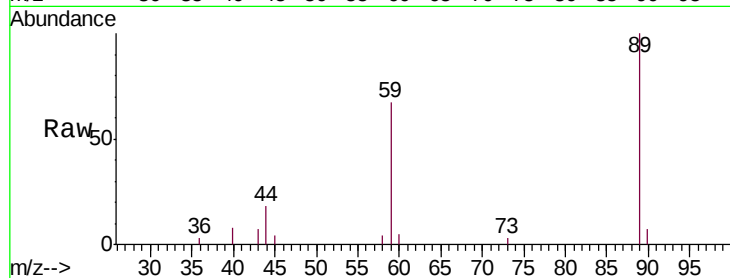
T1-S-B4-(0)

Tgt Ion: 59 Resp: 4247

Ion Ratio Lower Upper

59 100

57 0.0 3.9 5.9#



Abundance Ion 59.00 (58.70 to 59.70): VU033975.D (-523) (-)

Ion 57.00 (56.70 to 57.70): VU033975.D (-523) (-)

2.82

2500

2000

1500

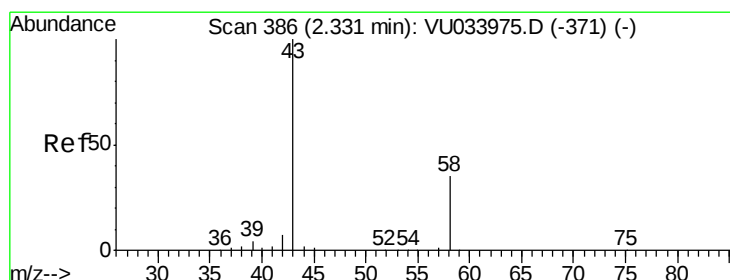
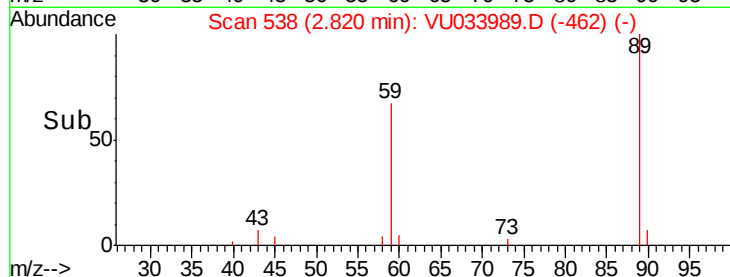
1000

500

0

Time-->

2.75 2.80 2.85



#16

Acetone

Concen: 3.813 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU033989.D

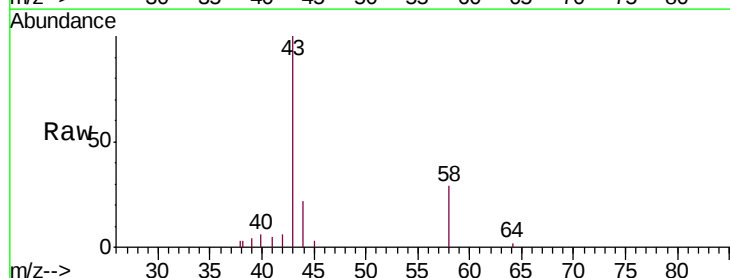
Acq: 27 Aug 2019 21:53

Tgt Ion: 43 Resp: 7883

Ion Ratio Lower Upper

43 100

58 29.5 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VU033975.D (-371) (-)

2.31

5000

4000

3000

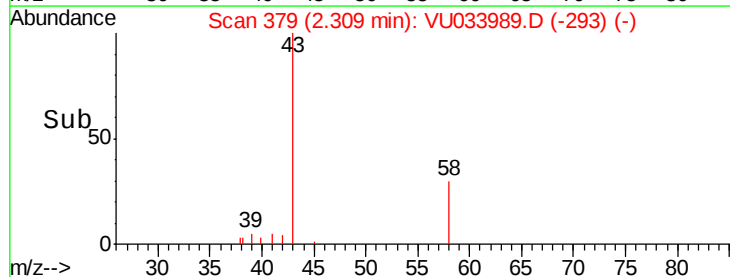
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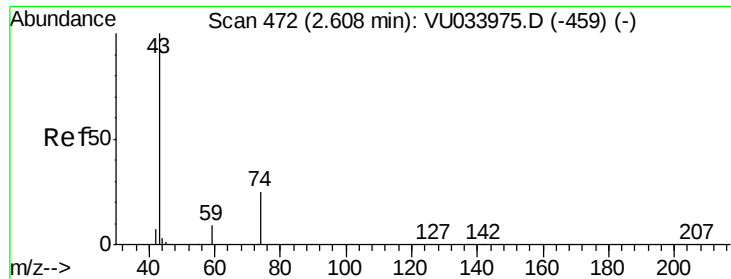
1000

0

Time-->

2.25 2.30 2.35 2.40

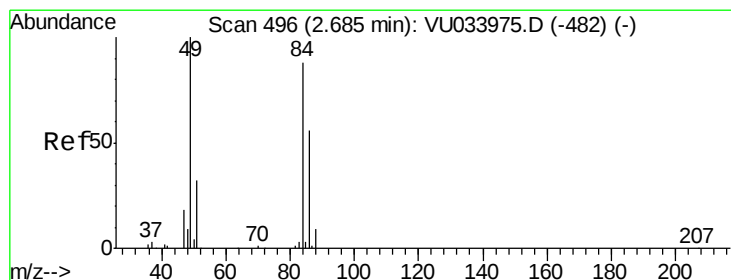
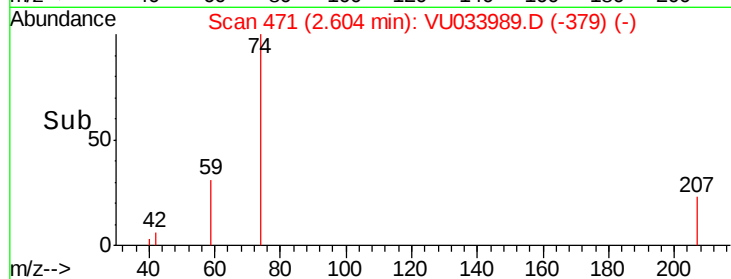
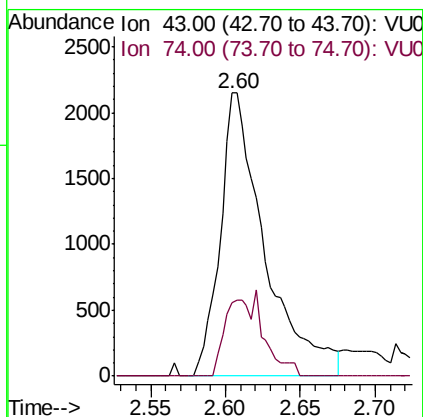
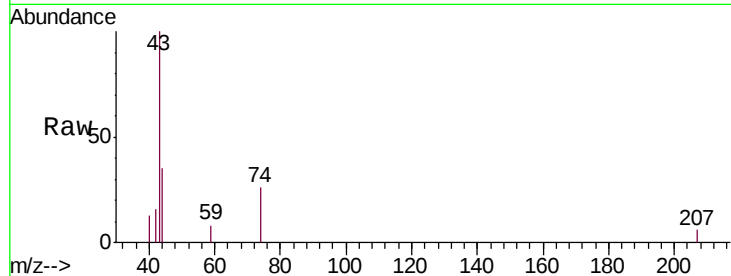




#18
Methyl Acetate
Concen: 0.879 ug/l
RT: 2.60 min Scan# 471
Delta R.T. -0.00 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

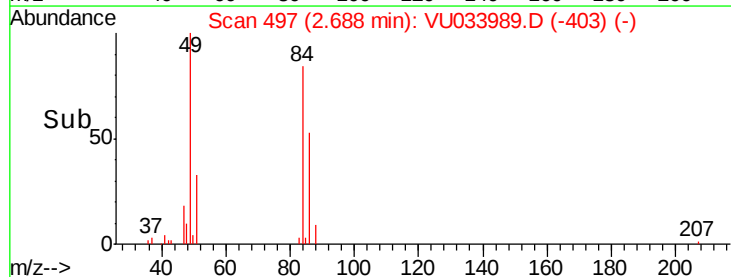
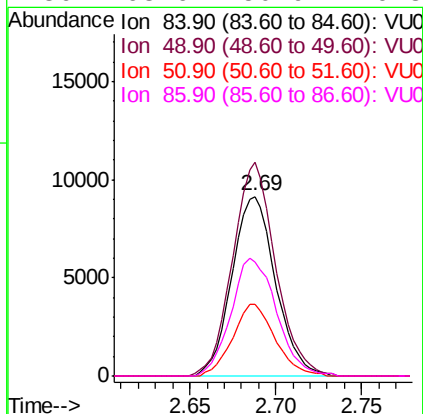
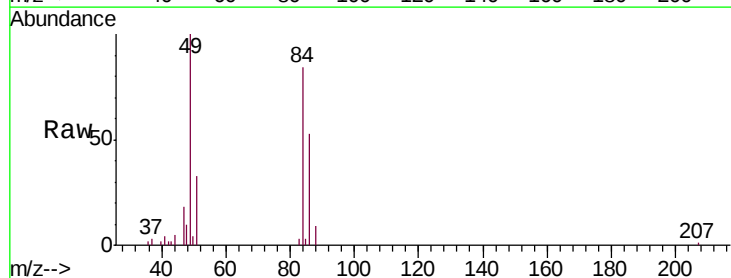
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(0)

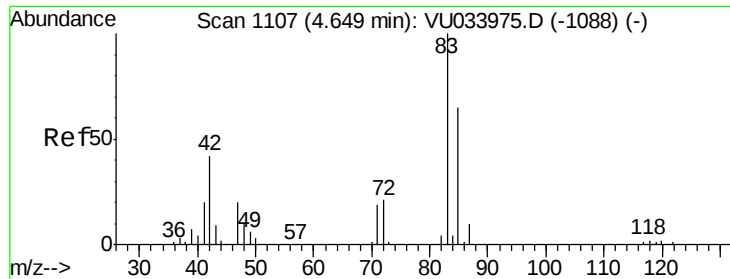
Tgt Ion: 43 Resp: 4476
Ion Ratio Lower Upper
43 100
74 24.2 20.5 30.7



#20
Methylene Chloride
Concen: 3.677 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

Tgt Ion: 84 Resp: 16131
Ion Ratio Lower Upper
84 100
49 119.0 91.3 136.9
51 39.6 28.9 43.3
86 63.6 50.9 76.3

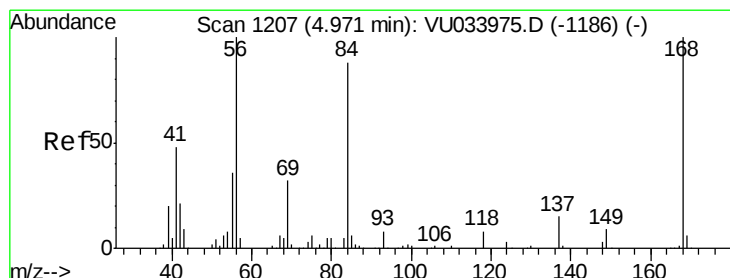
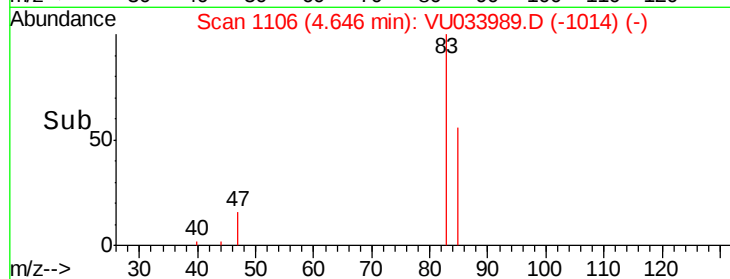
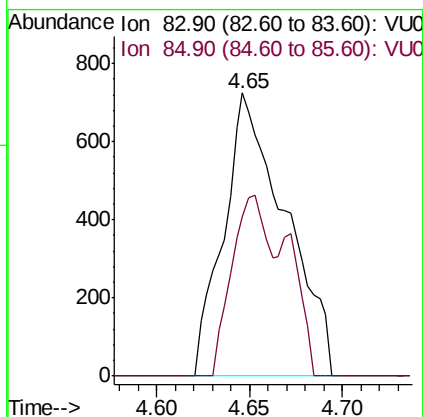
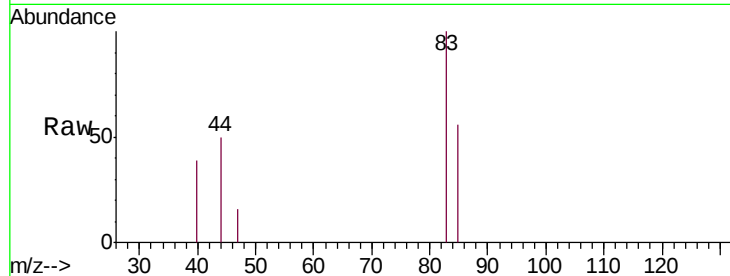




#30
Chloroform
Concen: 0.235 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

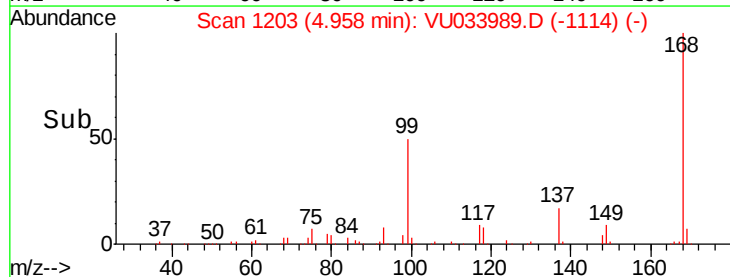
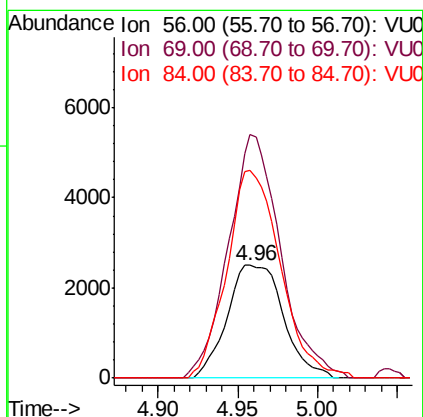
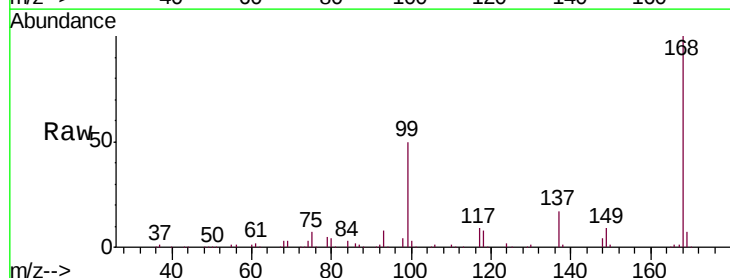
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(0)

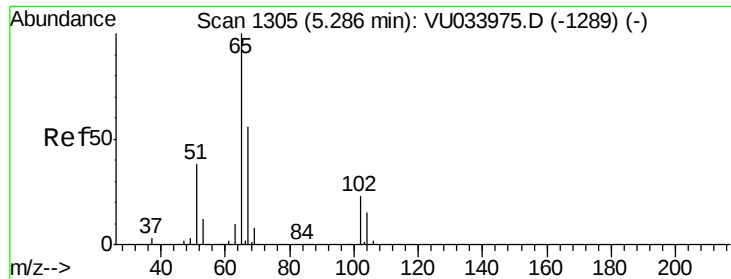
Tgt Ion: 83 Resp: 1677
Ion Ratio Lower Upper
83 100
85 56.4 52.1 78.1



#31
Cyclohexane
Concen: 0.949 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

Tgt Ion: 56 Resp: 6042
Ion Ratio Lower Upper
56 100
69 210.8 25.9 38.9#
84 184.1 70.4 105.6#

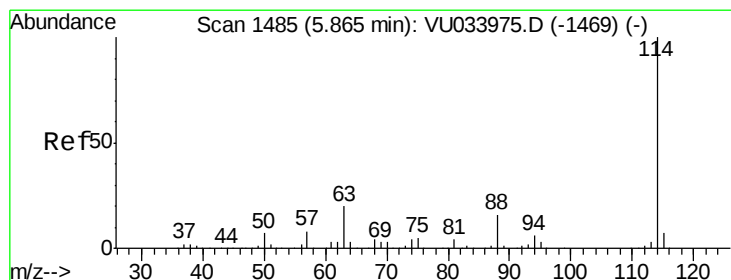
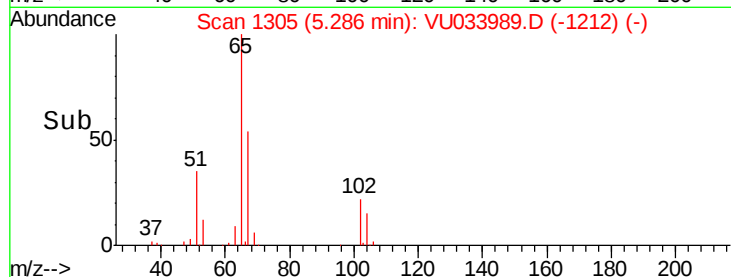
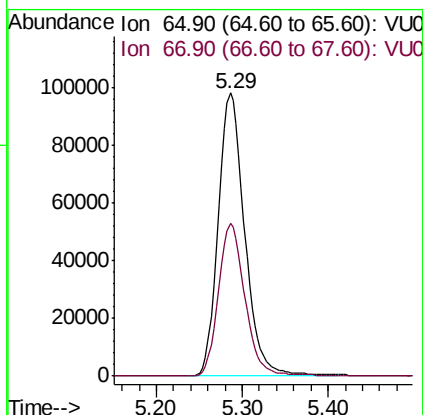
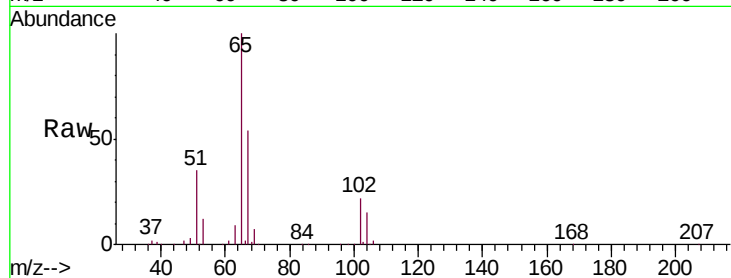




#33
 1,2-Dichloroethane-d4
 Concen: 48.834 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU033989.D
 Acq: 27 Aug 2019 21:53

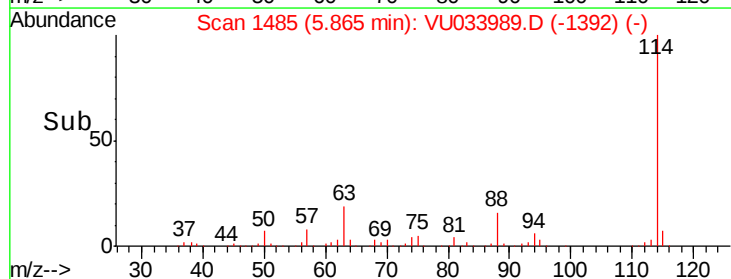
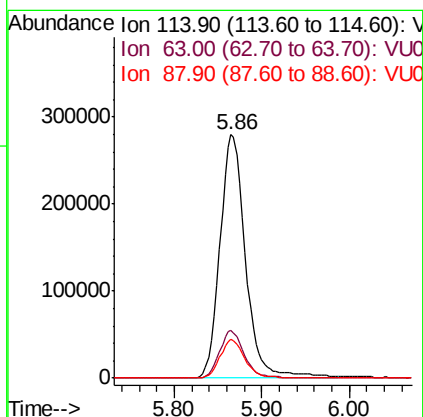
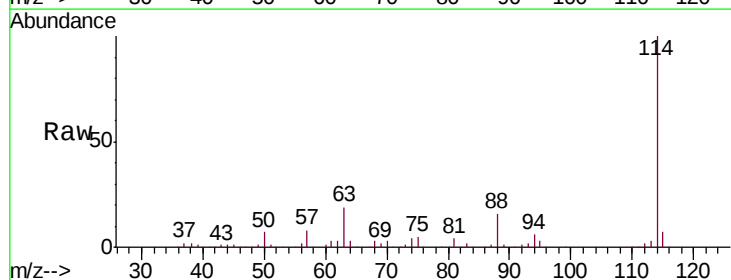
Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B4-(0)

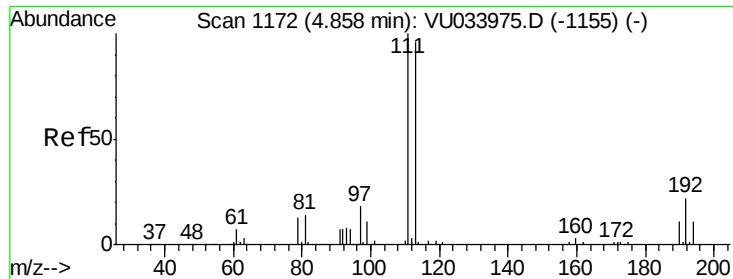
Tgt Ion: 65 Resp: 210943
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU033989.D
 Acq: 27 Aug 2019 21:53

Tgt Ion: 114 Resp: 569688
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 47.463 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampled :

T1-S-B4-(0)

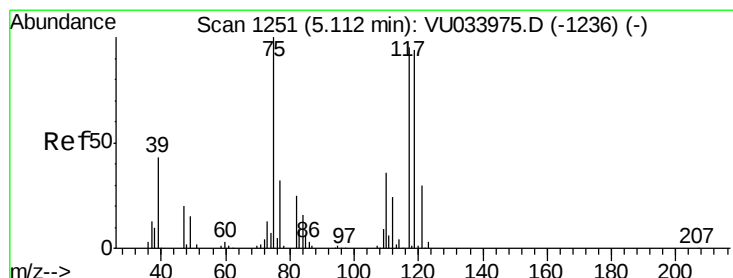
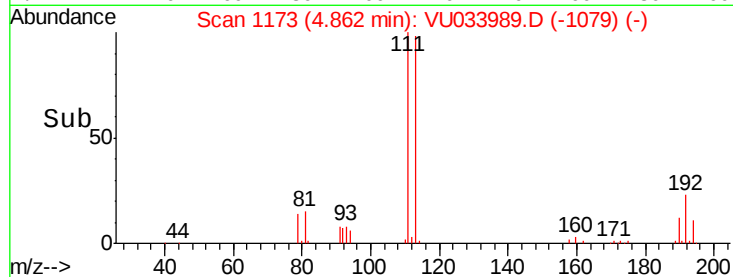
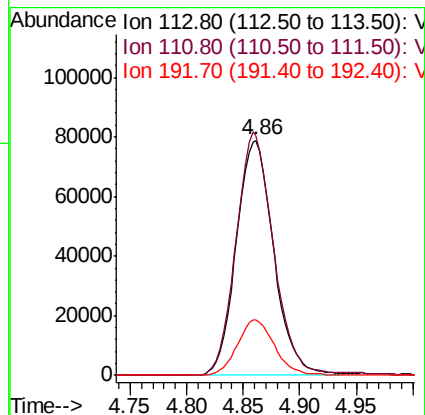
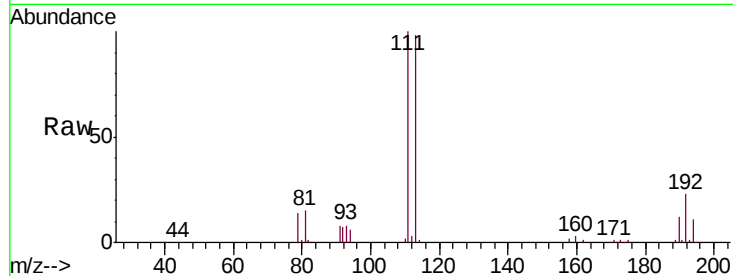
Tgt Ion:113 Resp: 181757

Ion Ratio Lower Upper

113 100

111 104.6 81.7 122.5

192 23.4 18.6 27.8



#36

1,1-Dichloropropene

Concen: 4.895 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

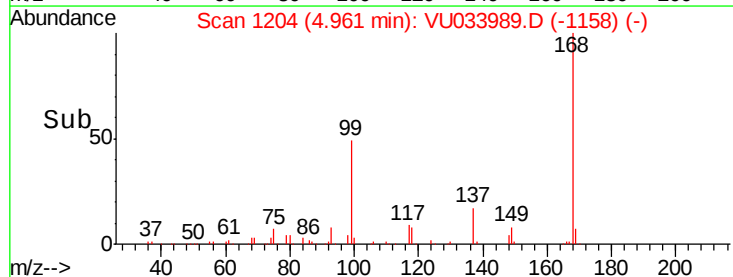
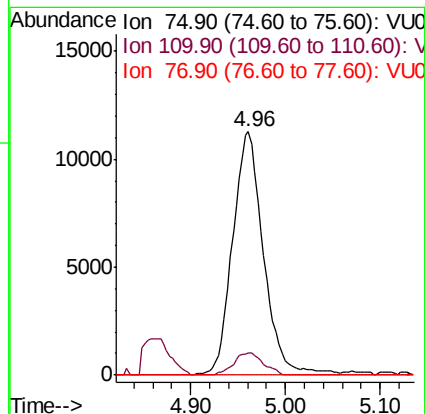
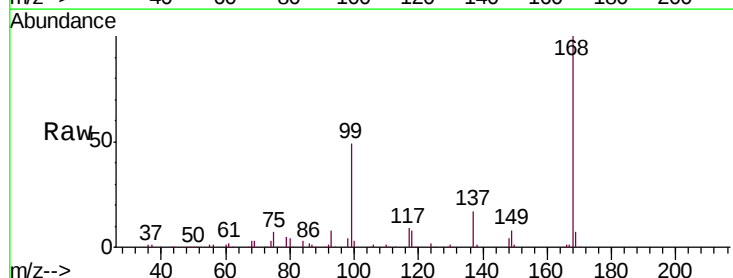
Tgt Ion: 75 Resp: 25542

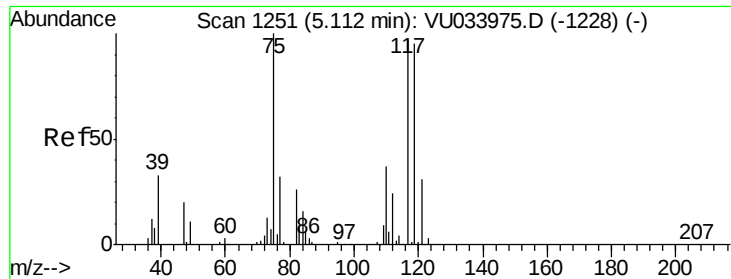
Ion Ratio Lower Upper

75 100

110 8.8 18.2 54.6#

77 0.0 24.8 37.2#

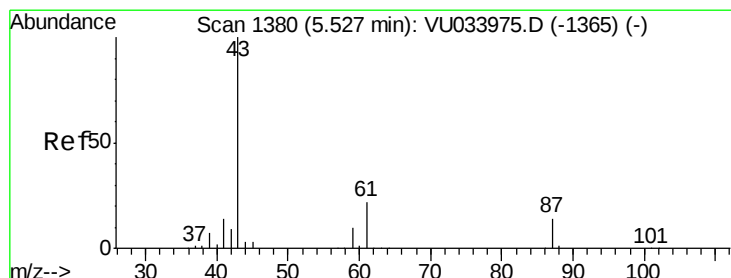
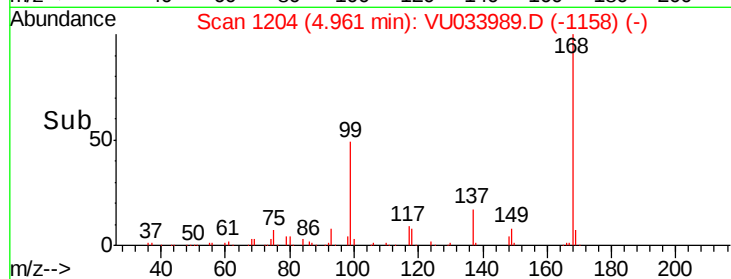
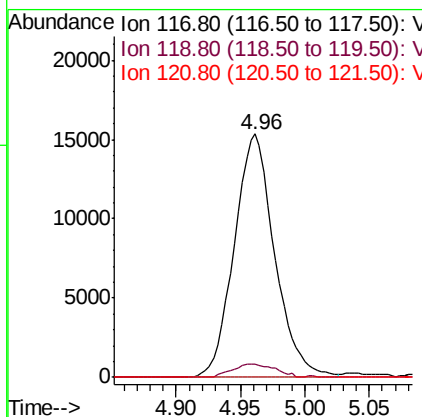
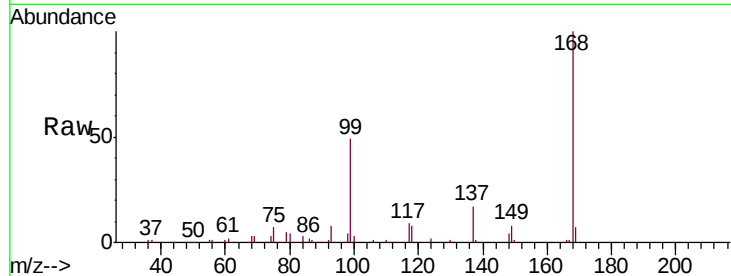




#38
 Carbon Tetrachloride
 Concen: 6.279 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU033989.D
 Acq: 27 Aug 2019 21:53

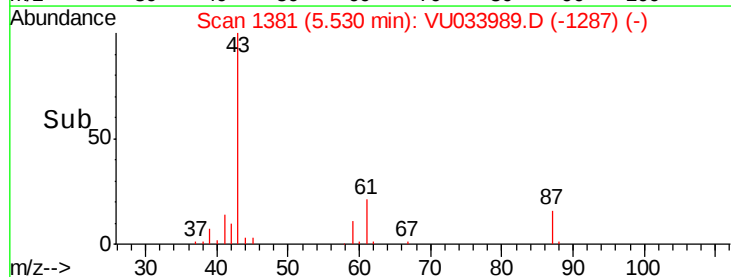
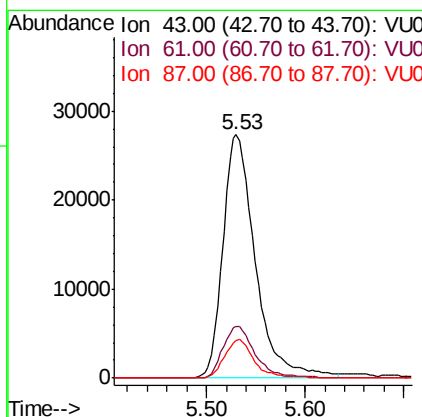
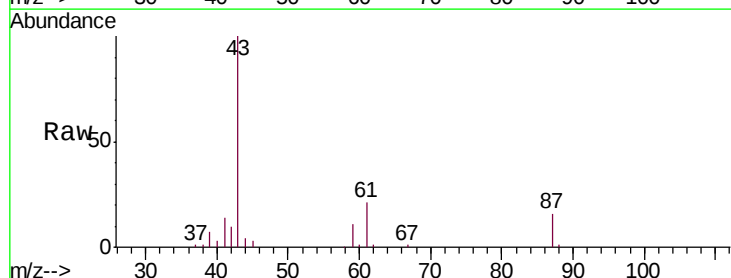
Instrument :
 MSVOA_U
 ClientSampled :
 T1-S-B4-(0)

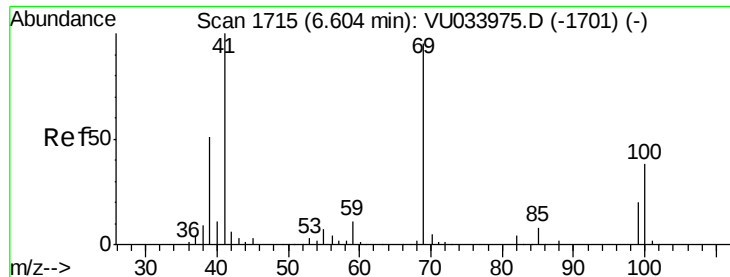
Tgt Ion: 117 Resp: 33387
 Ion Ratio Lower Upper
 117 100
 119 5.3 78.4 117.6#
 121 0.0 25.4 38.2#



#43
 Isopropyl Acetate
 Concen: 7.837 ug/l
 RT: 5.53 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VU033989.D
 Acq: 27 Aug 2019 21:53

Tgt Ion: 43 Resp: 62885
 Ion Ratio Lower Upper
 43 100
 61 20.9 17.8 26.8
 87 14.2 11.9 17.9





#48

Methyl methacrylate

Concen: 26.870 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(0)

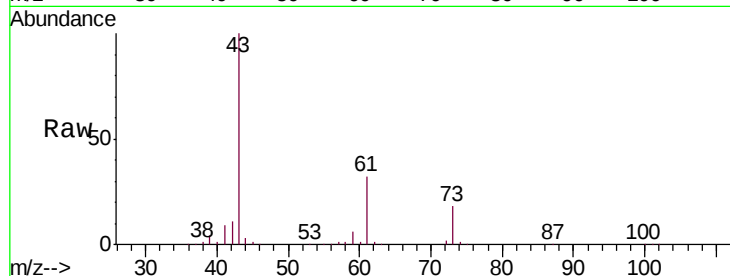
Tgt Ion: 41 Resp: 102514

Ion Ratio Lower Upper

41 100

69 0.1 76.3 114.5#

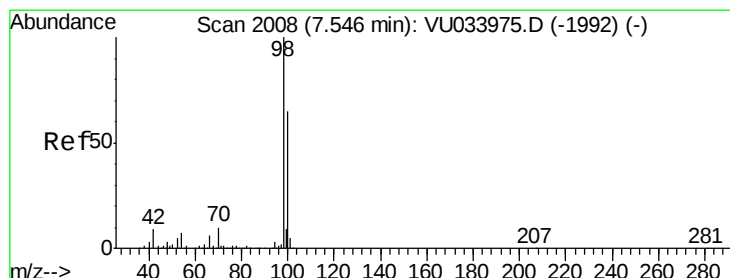
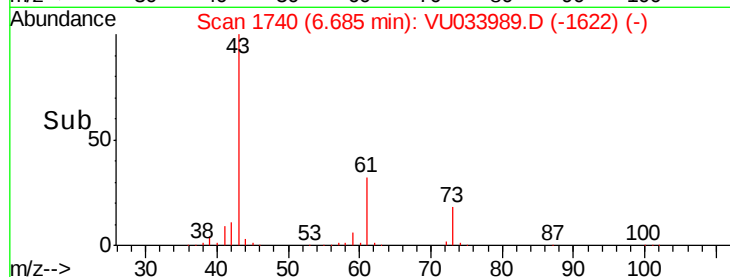
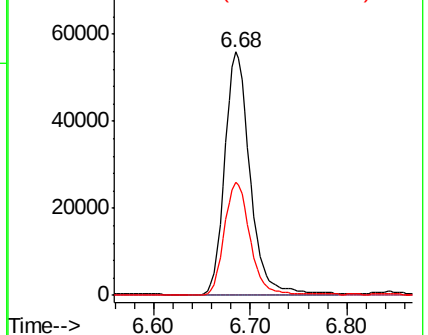
39 47.1 41.1 61.7



Abundance Ion 41.00 (40.70 to 41.70): VU033989.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU033989.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU033989.D (-1622) (-)



#50

Toluene-d8

Concen: 50.426 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU033989.D

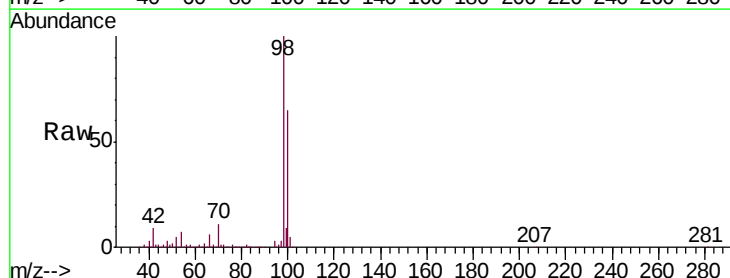
Acq: 27 Aug 2019 21:53

Tgt Ion: 98 Resp: 712242

Ion Ratio Lower Upper

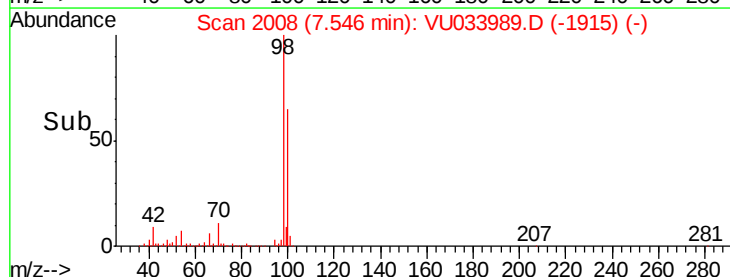
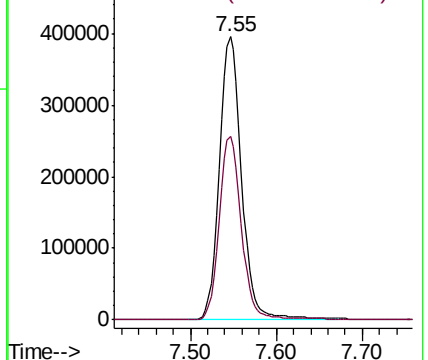
98 100

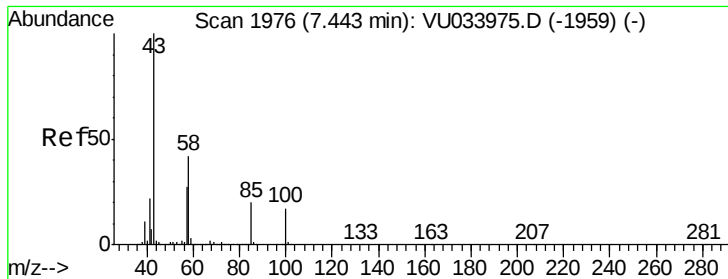
100 65.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VU033989.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU033989.D (-1915) (-)





#51

4-Methyl-2-Pentanone

Concen: 9.604 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

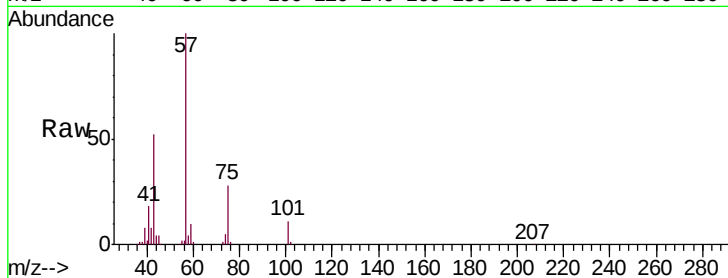
T1-S-B4-(0)

Tgt Ion: 43 Resp: 53136

Ion Ratio Lower Upper

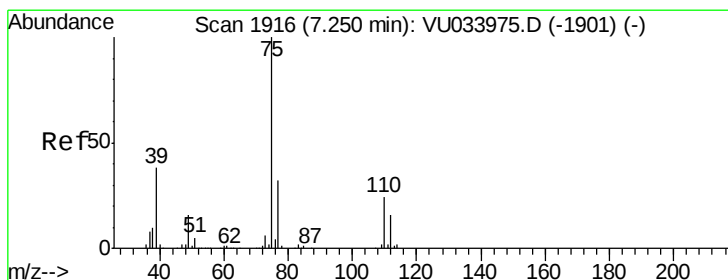
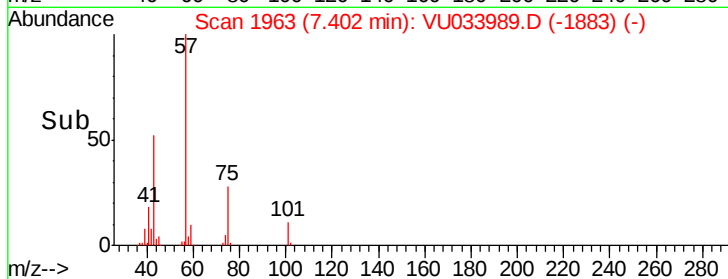
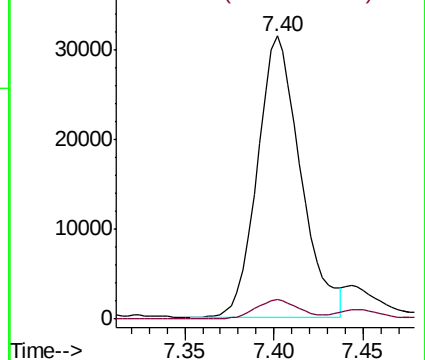
43 100

58 7.1 33.6 50.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 4.703 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

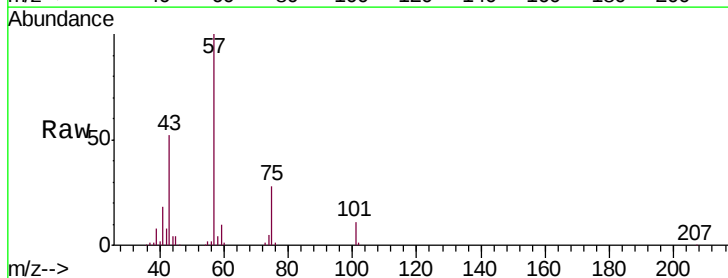
Tgt Ion: 75 Resp: 30223

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

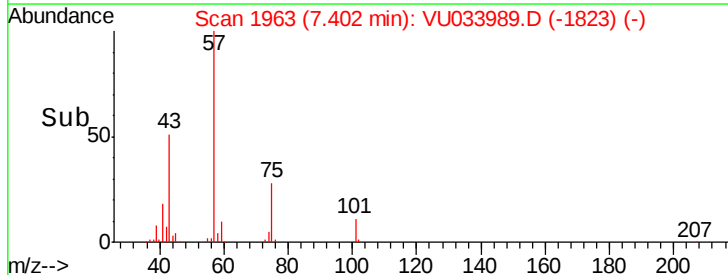
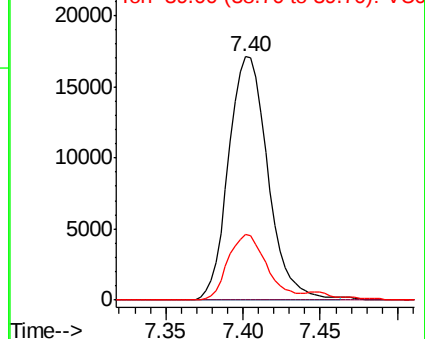
39 27.1 30.7 46.1#

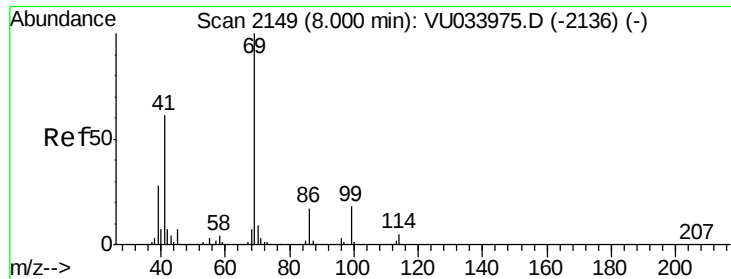


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#56

Ethyl methacrylate

Concen: 2.526 ug/l

RT: 7.96 min Scan# 2137

Delta R.T. -0.04 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(0)

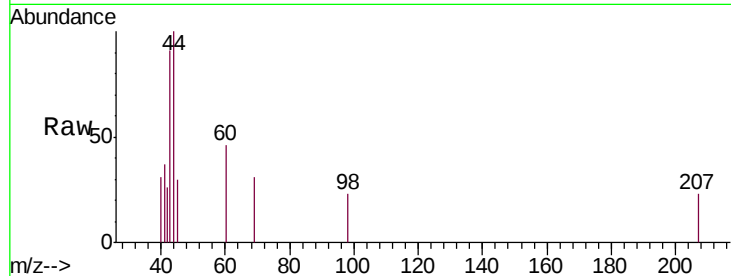
Tgt Ion: 69 Resp: 79

Ion Ratio Lower Upper

69 100

41 0.0 48.6 72.8#

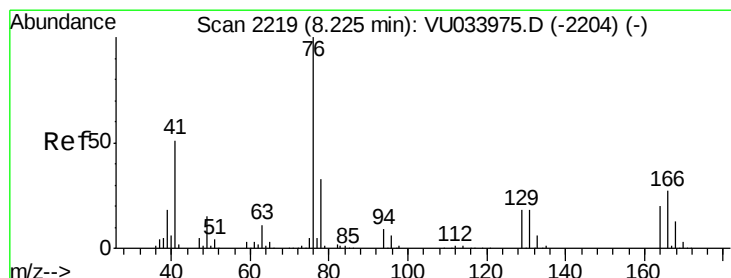
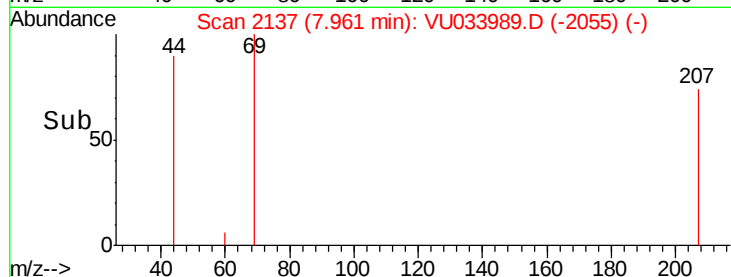
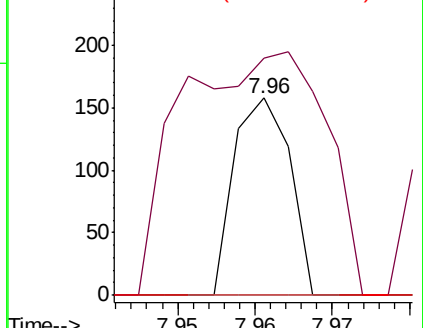
39 0.0 22.4 33.6#



Abundance Ion 69.00 (68.70 to 69.70): VU033989.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU033989.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU033989.D (-2055) (-)



#57

1,3-Dichloropropane

Concen: 0.783 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.17 min

Lab File: VU033989.D

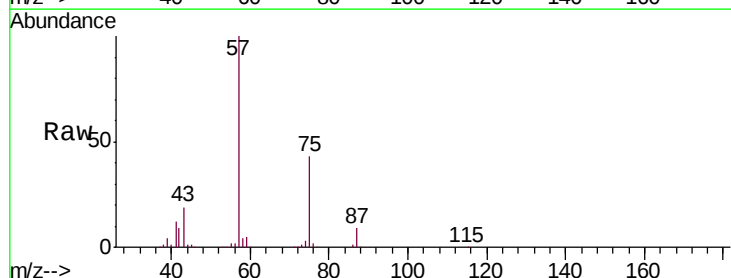
Acq: 27 Aug 2019 21:53

Tgt Ion: 76 Resp: 5272

Ion Ratio Lower Upper

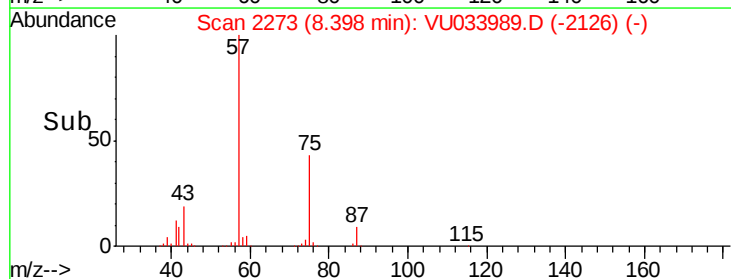
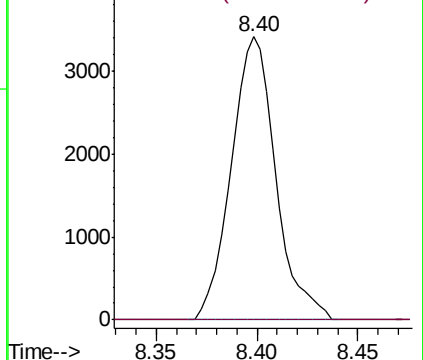
76 100

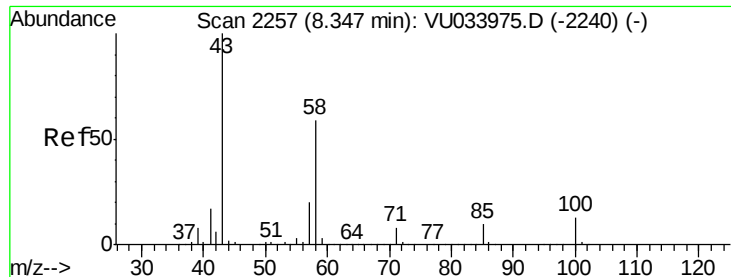
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VU033989.D (-2126) (-)

Ion 77.90 (77.60 to 78.60): VU033989.D (-2126) (-)

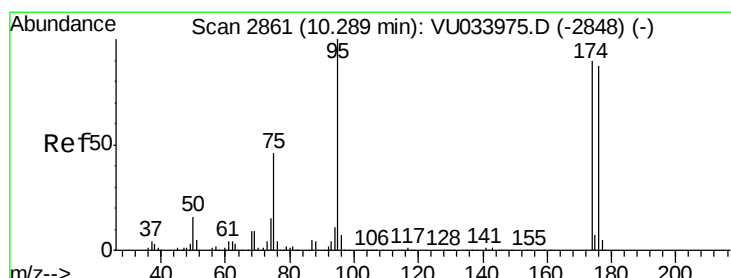
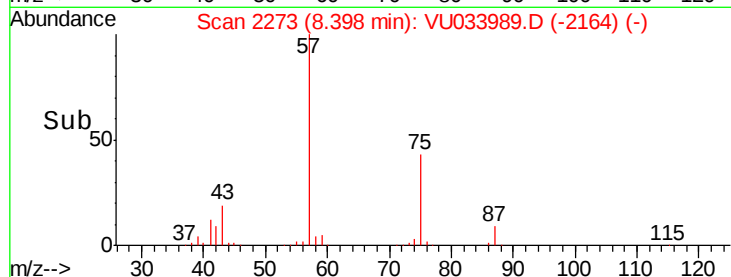
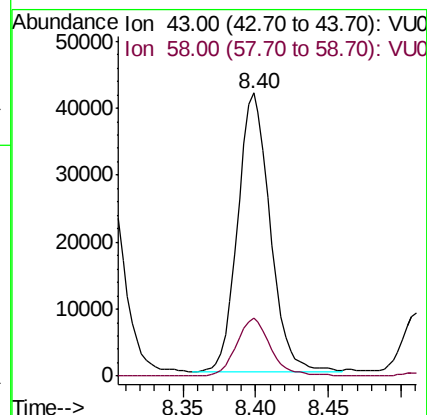
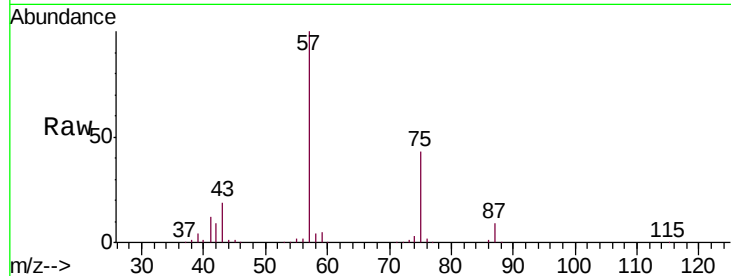




#59
2-Hexanone
Concen: 15.182 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

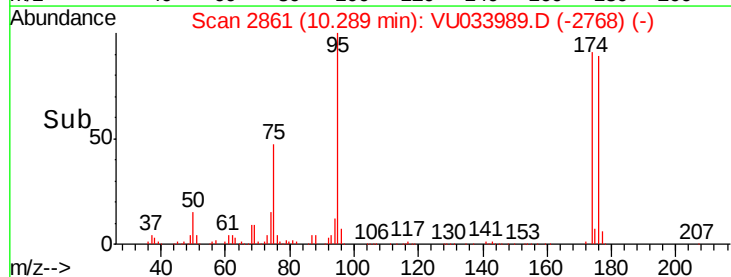
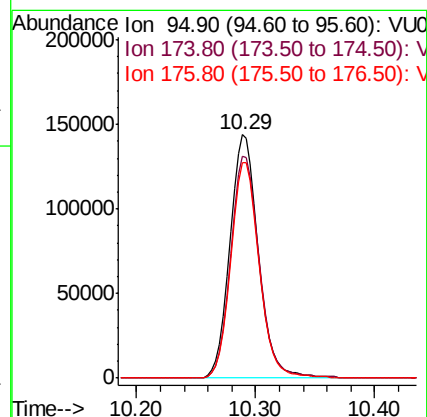
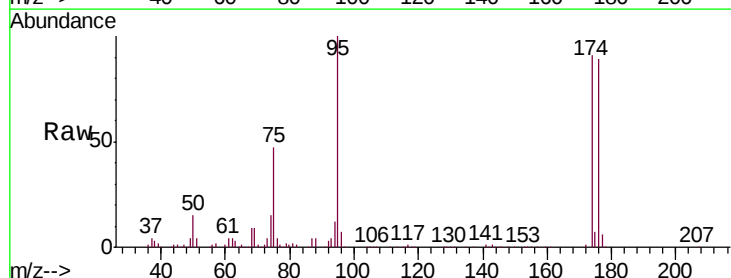
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(0)

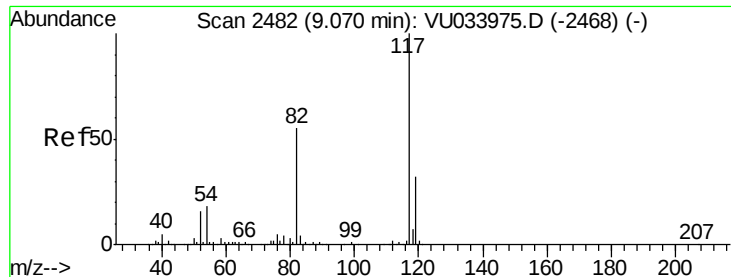
Tgt Ion: 43 Resp: 64564
Ion Ratio Lower Upper
43 100
58 22.2 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 43.940 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

Tgt Ion: 95 Resp: 238072
Ion Ratio Lower Upper
95 100
174 92.5 0.0 183.8
176 89.0 0.0 176.4

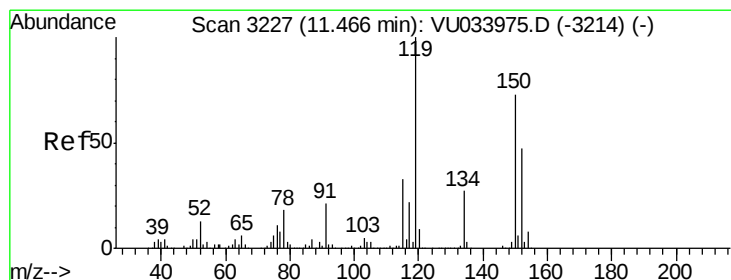
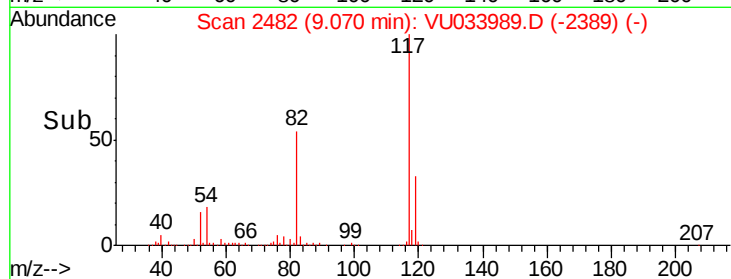
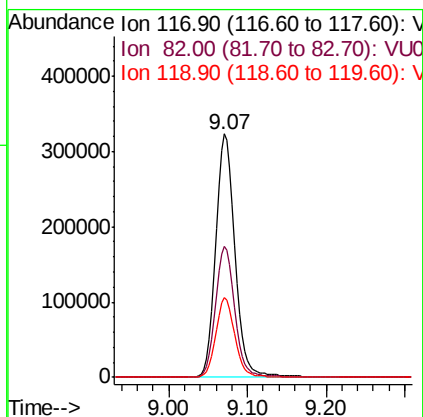
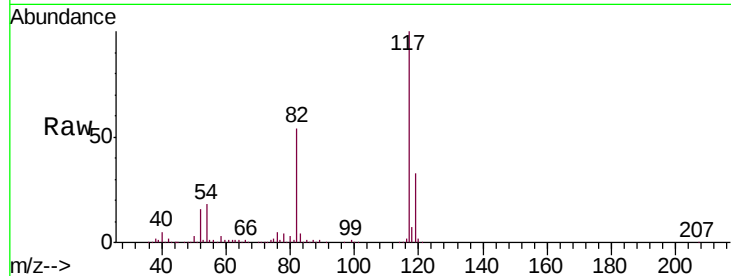




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

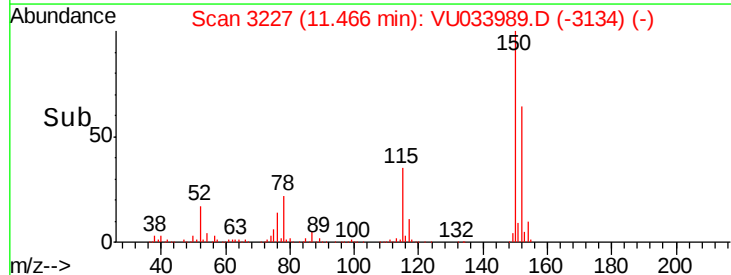
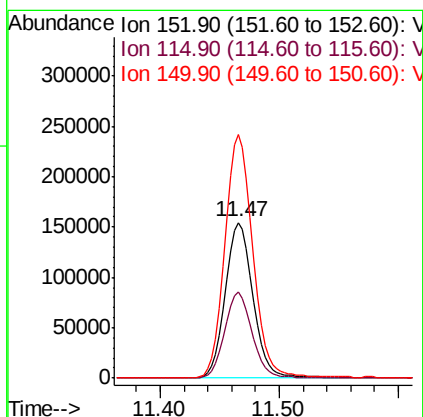
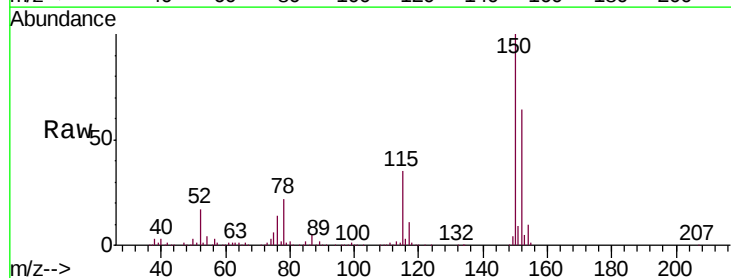
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B4-(0)

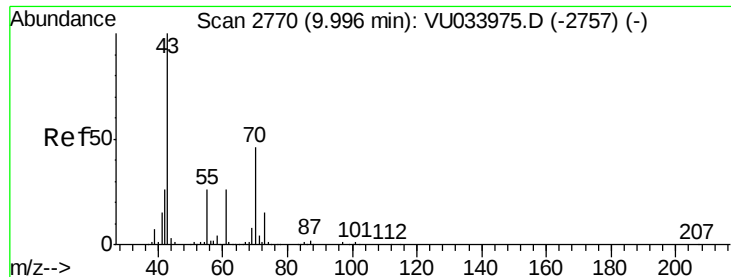
Tgt Ion:117 Resp: 545882
Ion Ratio Lower Upper
117 100
82 53.7 43.8 65.8
119 32.9 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU033989.D
Acq: 27 Aug 2019 21:53

Tgt Ion:152 Resp: 250361
Ion Ratio Lower Upper
152 100
115 54.6 38.6 115.7
150 158.1 0.0 343.8





#74

N-ethyl acetate

Concen: 0.298 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(0)

Tgt Ion: 43 Resp: 1804

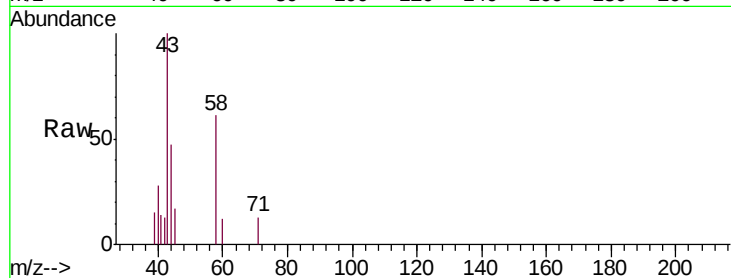
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.0 31.4#

61 0.0 20.9 31.3#

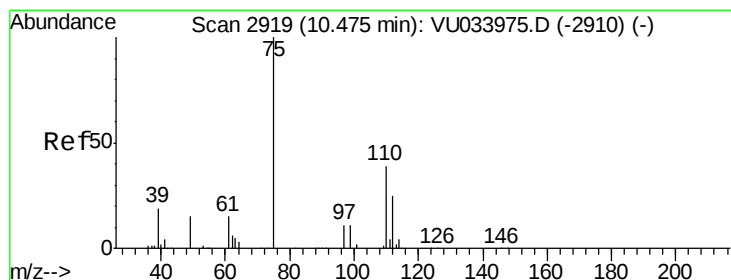
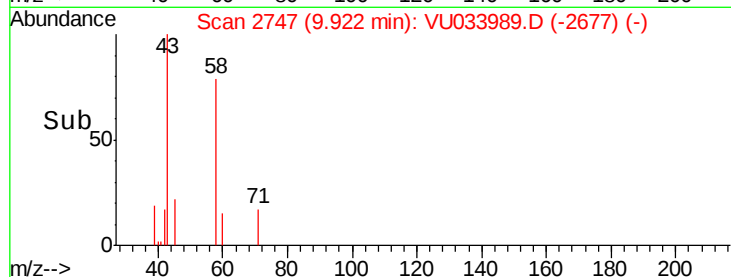
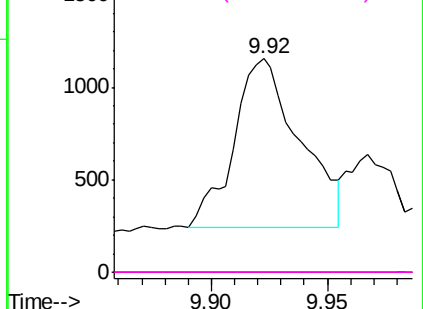


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.274 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033989.D

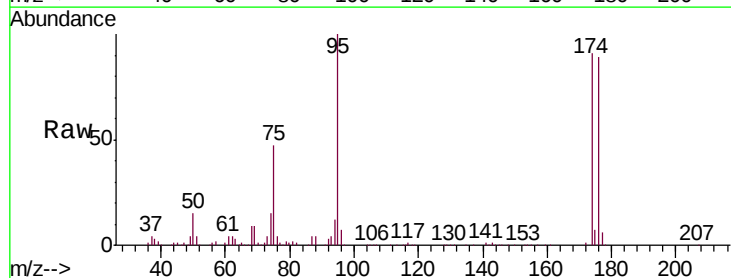
Acq: 27 Aug 2019 21:53

Tgt Ion: 75 Resp: 111112

Ion Ratio Lower Upper

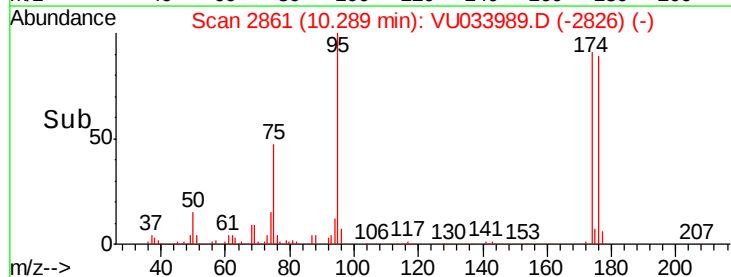
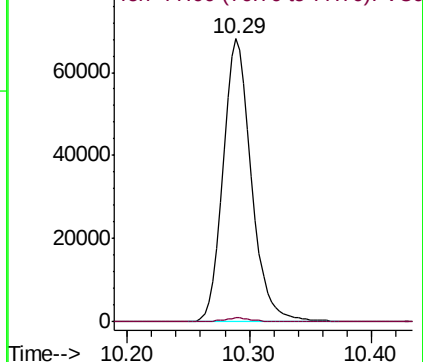
75 100

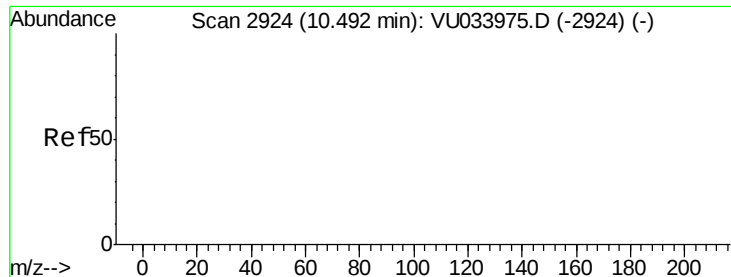
77 1.3 21.0 63.0#



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: 63.798 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B4-(0)

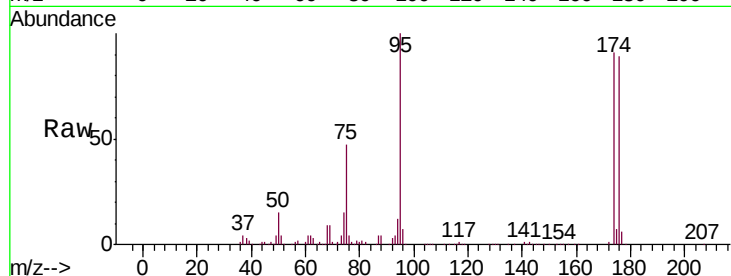
Tgt Ion: 75 Resp: 111112

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

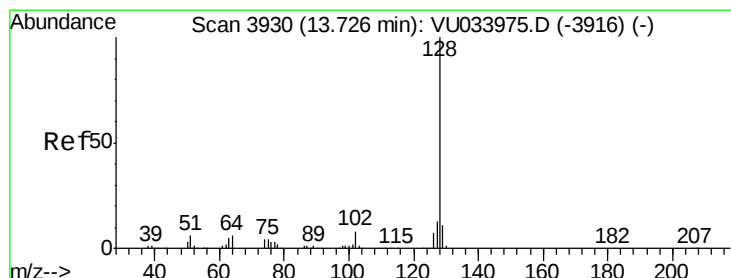
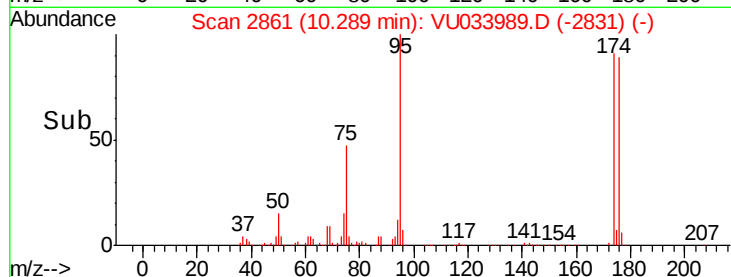
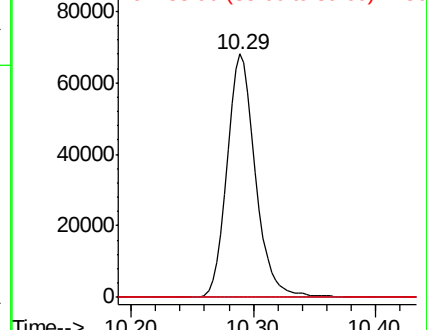
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU033975.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU033975.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU033975.D (-2924) (-)



#95

Naphthalene

Concen: 2.085 ug/l

RT: 13.82 min Scan# 3960

Delta R.T. 0.10 min

Lab File: VU033989.D

Acq: 27 Aug 2019 21:53

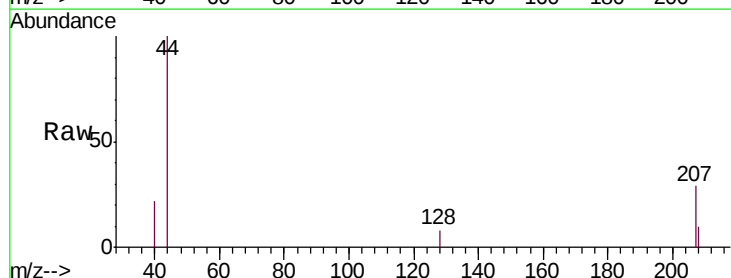
Tgt Ion: 128 Resp: 39

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): VU033975.D (-3916) (-)

Ion 127.00 (126.70 to 127.70): VU033975.D (-3916) (-)

Ion 129.00 (128.70 to 129.70): VU033975.D (-3916) (-)

