

Data File : VU034002.D
Acq On : 28 Aug 2019 04:15
Operator : JC/SP
Sample : K4516-34
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T2-S-B3-(2.5)

Quant Time: Aug 28 05:44:40 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	453554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	711036	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	656502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	254598	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	306640	60.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.72%	
35) Dibromofluoromethane	4.86	113	242241	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
50) Toluene-d8	7.55	98	934839	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
62) 4-Bromofluorobenzene	10.29	95	238699	35.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.60%	

Target Compounds

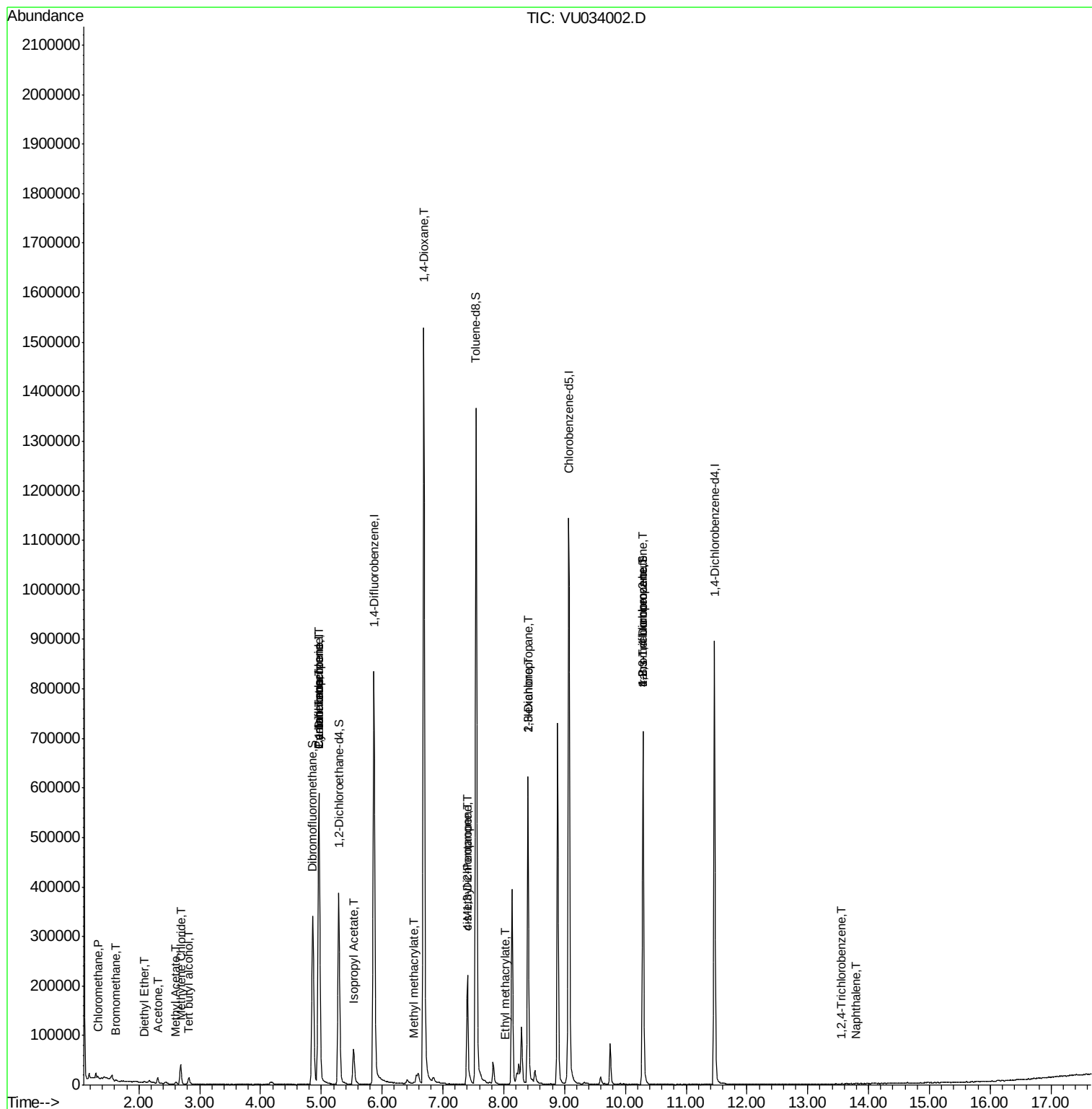
						Qvalue
3) Chloromethane	1.32	50	3741	1.655	ug/l	90
5) Bromomethane	1.62	94	1586	0.573	ug/l	99
8) Diethyl Ether	2.09	74	635	0.279	ug/l	61
11) Tert butyl alcohol	2.82	59	8033	6.155	ug/l #	85
16) Acetone	2.31	43	13019	5.398	ug/l	96
18) Methyl Acetate	2.61	43	6793	1.144	ug/l #	84
20) Methylene Chloride	2.69	84	17178	3.357	ug/l	91
31) Cyclohexane	4.96	56	9664	1.301	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	35499	5.451	ug/l #	47
38) Carbon Tetrachloride	4.96	117	43456	6.548	ug/l #	15
43) Isopropyl Acetate	5.53	43	86382	8.625	ug/l	95
48) Methyl methacrylate	6.53	41	5603	1.177	ug/l #	11
49) 1,4-Dioxane	6.68	88	215	1.645	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	79318	11.486	ug/l #	44
54) cis-1,3-Dichloropropene	7.40	75	37750	4.706	ug/l #	70
56) Ethyl methacrylate	8.04	69	92	2.525	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	6161	0.733	ug/l #	43
59) 2-Hexanone	8.40	43	86258	16.251	ug/l #	50
76) 1,2,3-Trichloropropane	10.29	75	112485	22.174	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	112485	63.511	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	67	1.753	ug/l #	12
95) Naphthalene	13.79	128	256	2.099	ug/l #	70

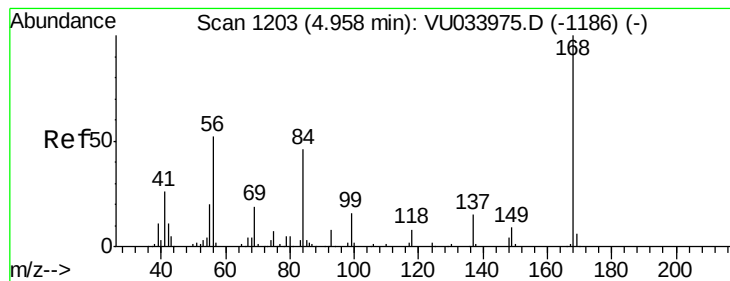
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

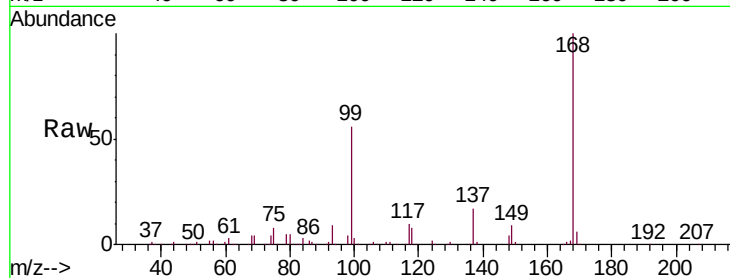
T2-S-B3-(2.5)

Tgt Ion:168 Resp: 453554

Ion Ratio Lower Upper

168 100

99 56.5 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

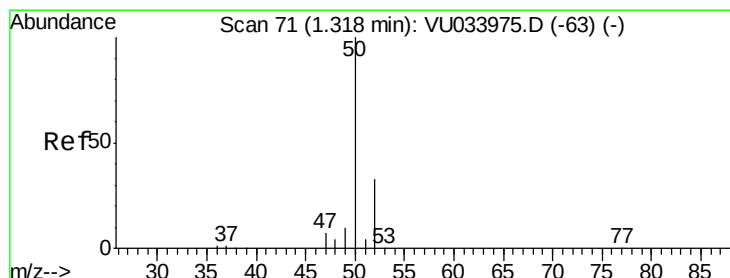
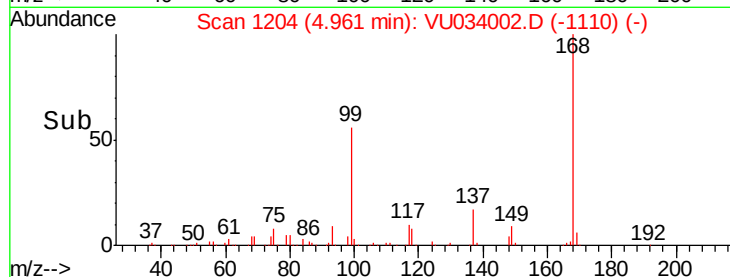
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.655 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU034002.D

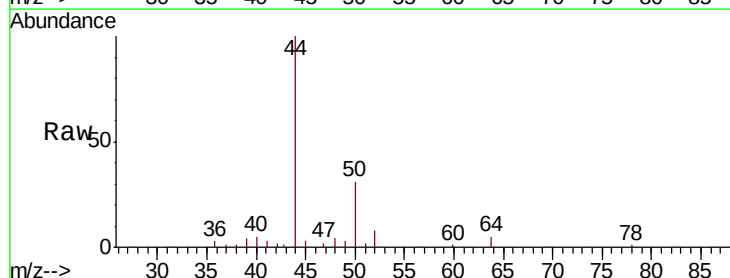
Acq: 28 Aug 2019 04:15

Tgt Ion: 50 Resp: 3741

Ion Ratio Lower Upper

50 100

52 27.1 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

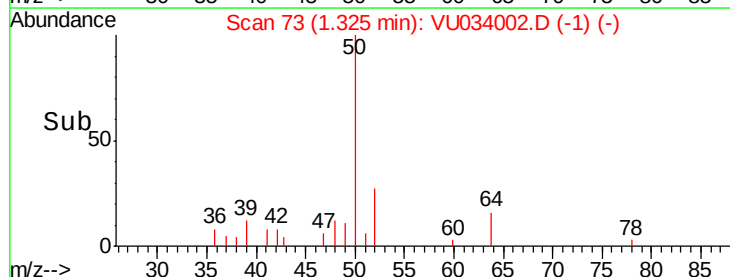
3000

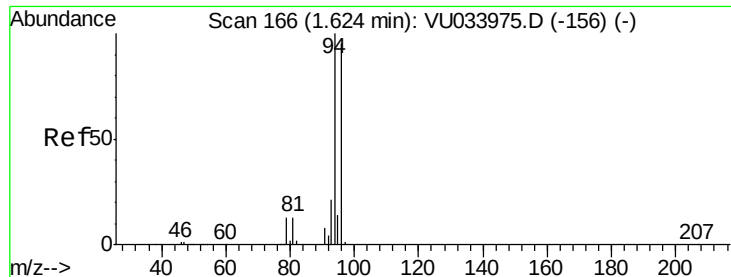
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.573 ug/l

RT: 1.62 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

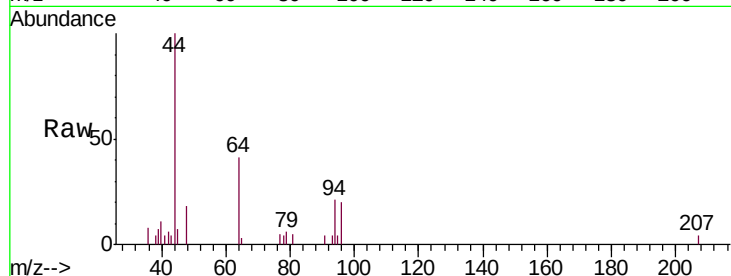
T2-S-B3-(2.5)

Tgt Ion: 94 Resp: 1586

Ion Ratio Lower Upper

94 100

96 96.5 76.3 114.5



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

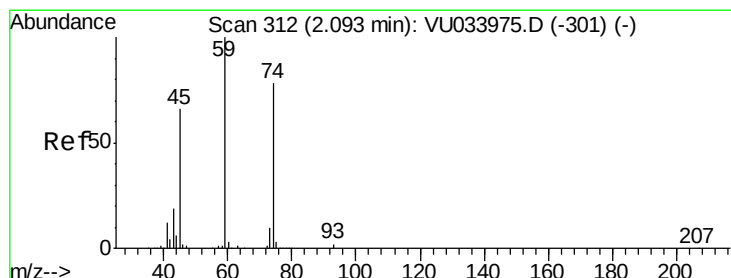
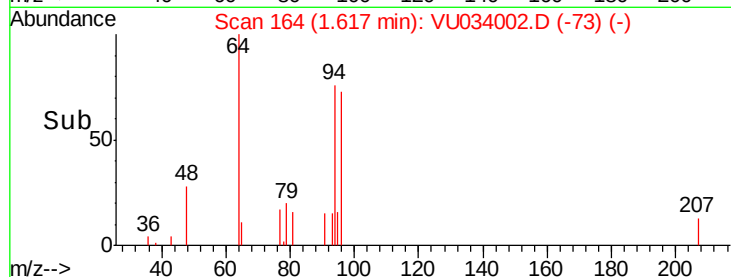
Ion 95.90 (95.60 to 96.60): VU033975.D (-156) (-)

1.62

1.65

1.70

Time-->



#8

Diethyl Ether

Concen: 0.279 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034002.D

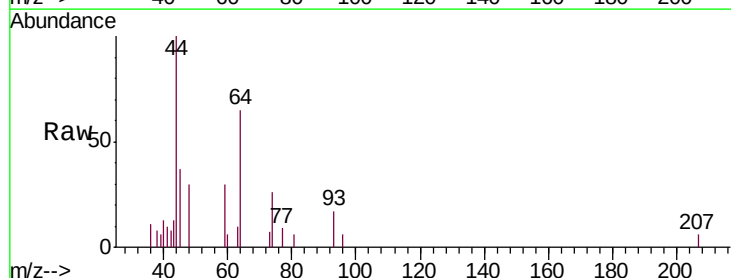
Acq: 28 Aug 2019 04:15

Tgt Ion: 74 Resp: 635

Ion Ratio Lower Upper

74 100

45 120.9 42.8 128.4



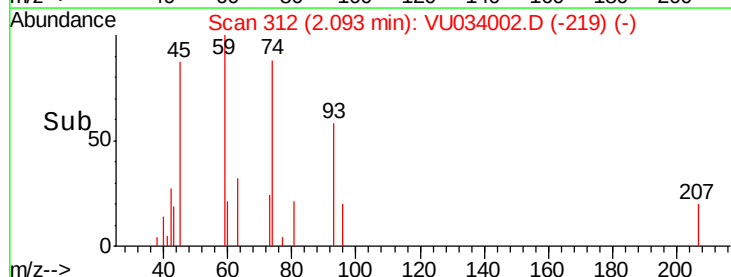
Abundance Ion 74.00 (73.70 to 74.70): VU033975.D (-301) (-)

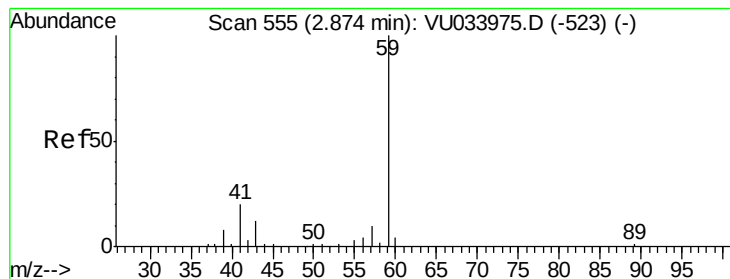
Ion 45.00 (44.70 to 45.70): VU033975.D (-301) (-)

2.09

2.12

Time-->





#11

Tert butyl alcohol

Concen: 6.155 ug/l

RT: 2.82 min Scan# 538

Delta R.T. -0.05 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

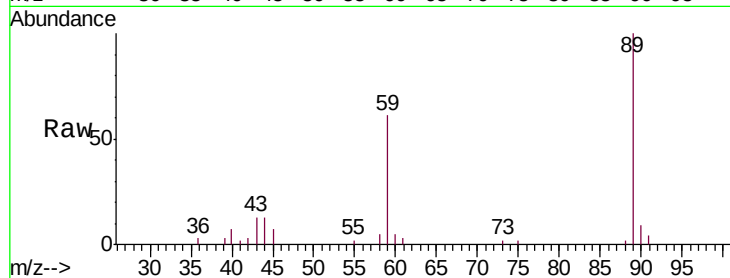
T2-S-B3-(2.5)

Tgt Ion: 59 Resp: 8033

Ion Ratio Lower Upper

59 100

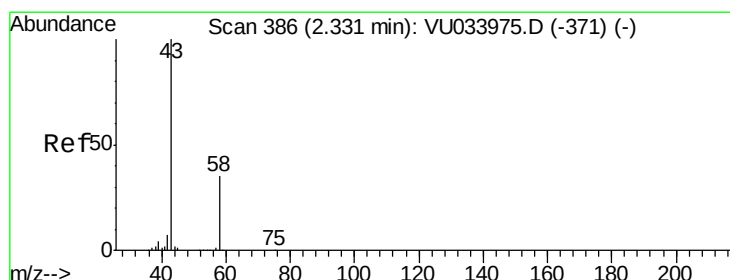
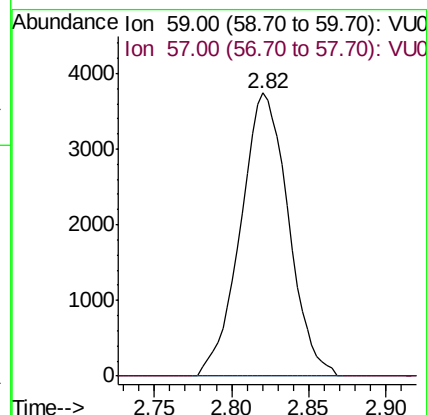
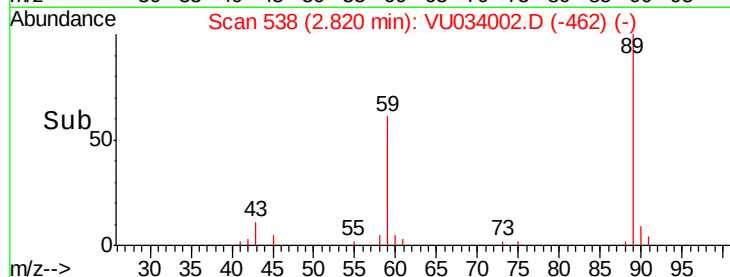
57 0.0 3.9 5.9#



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

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

Time-->



#16

Acetone

Concen: 5.398 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU034002.D

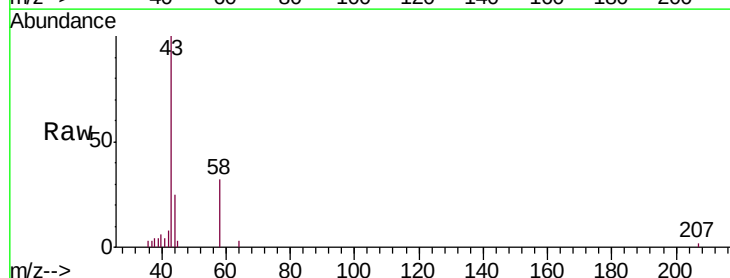
Acq: 28 Aug 2019 04:15

Tgt Ion: 43 Resp: 13019

Ion Ratio Lower Upper

43 100

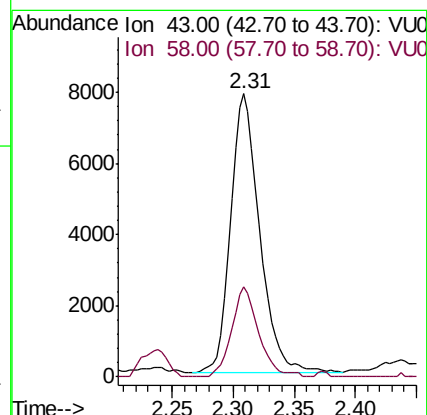
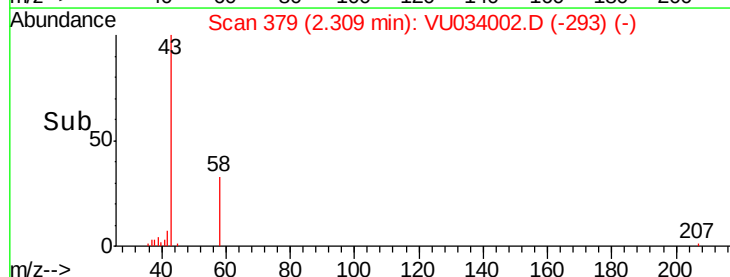
58 32.4 28.0 42.0

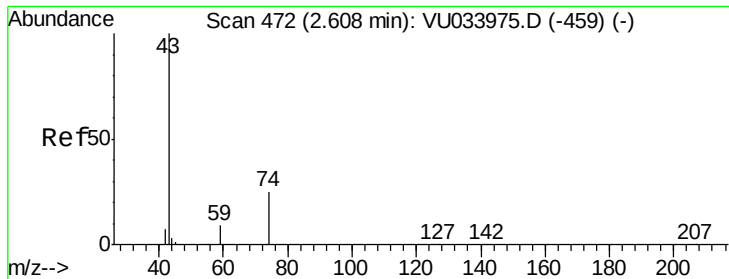


Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-371) (-)

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

Time-->

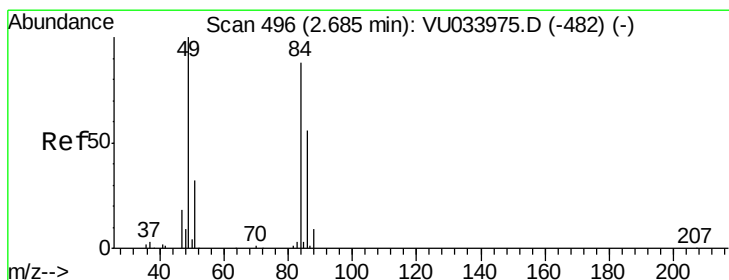
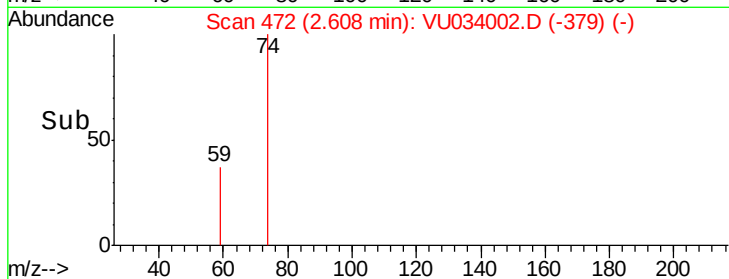
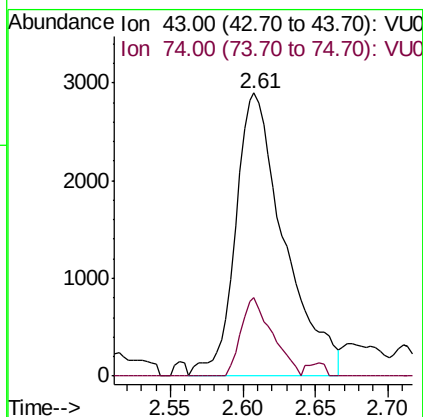
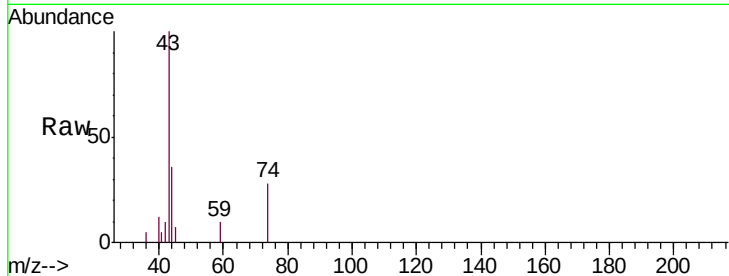




#18
Methyl Acetate
Concen: 1.144 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU034002.D
Acq: 28 Aug 2019 04:15

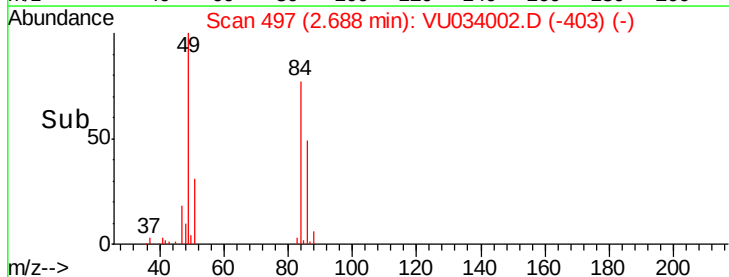
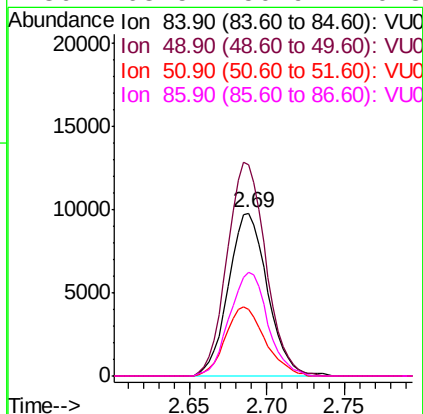
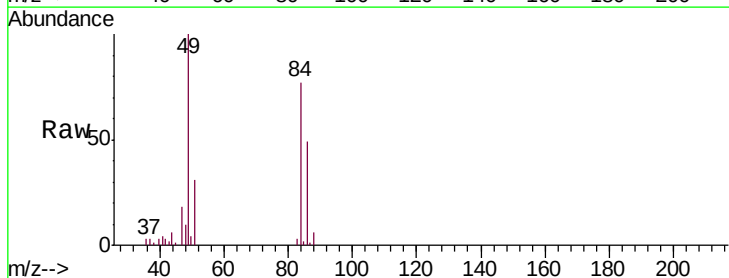
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B3-(2.5)

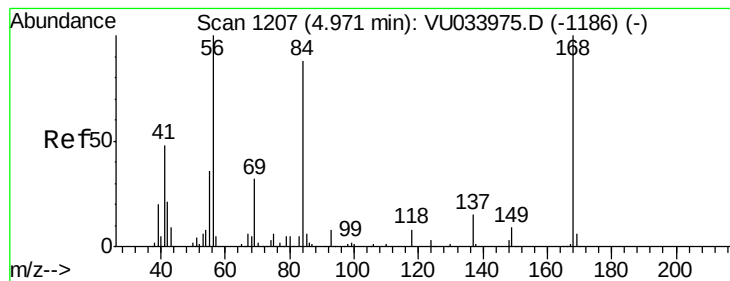
Tgt Ion: 43 Resp: 6793
Ion Ratio Lower Upper
43 100
74 17.7 20.5 30.7#



#20
Methylene Chloride
Concen: 3.357 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034002.D
Acq: 28 Aug 2019 04:15

Tgt Ion: 84 Resp: 17178
Ion Ratio Lower Upper
84 100
49 129.6 91.3 136.9
51 40.8 28.9 43.3
86 63.5 50.9 76.3





#31

Cyclohexane

Concen: 1.301 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B3-(2.5)

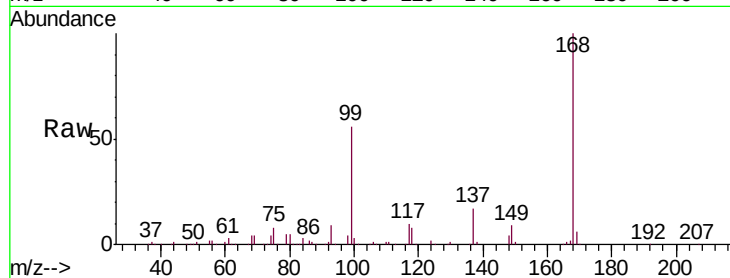
Tgt Ion: 56 Resp: 9664

Ion Ratio Lower Upper

56 100

69 180.4 25.9 38.9#

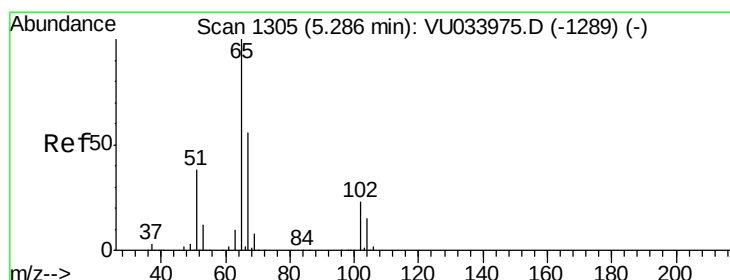
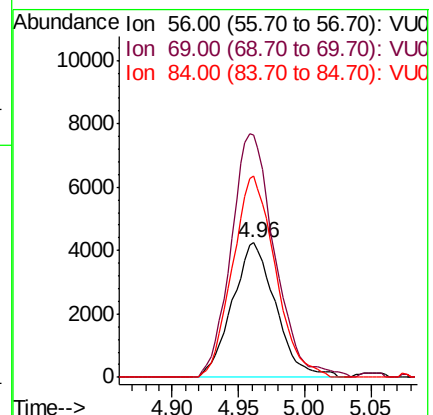
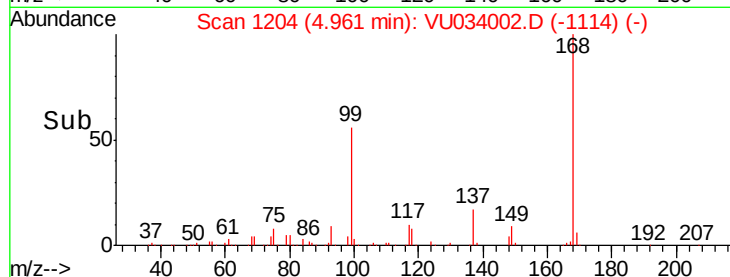
84 149.8 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VU033975.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU033975.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU033975.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 60.856 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034002.D

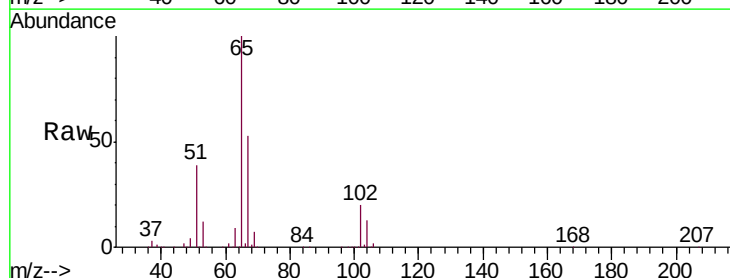
Acq: 28 Aug 2019 04:15

Tgt Ion: 65 Resp: 306640

Ion Ratio Lower Upper

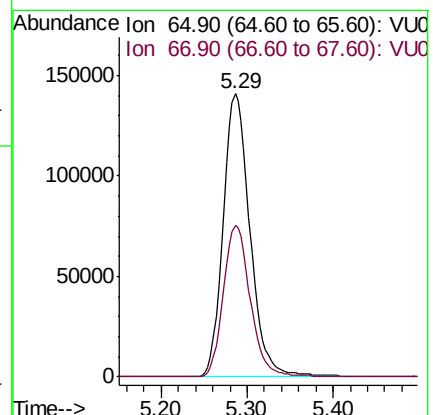
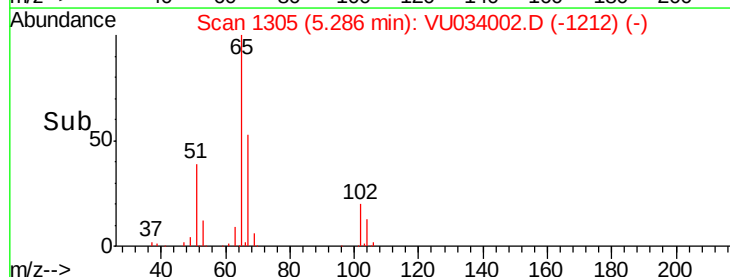
65 100

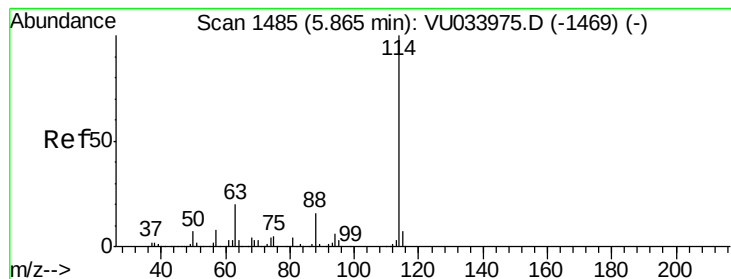
67 53.7 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU033975.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU033975.D (-1289) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B3-(2.5)

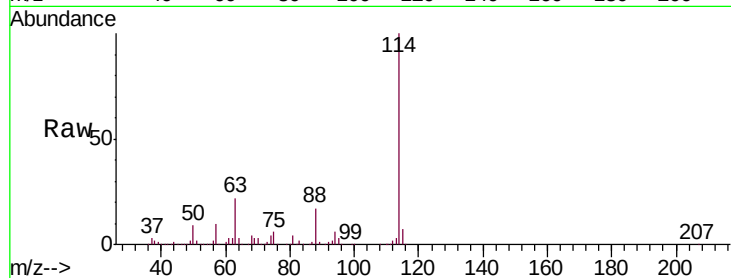
Tgt Ion:114 Resp: 711036

Ion Ratio Lower Upper

114 100

63 22.5 0.0 39.0

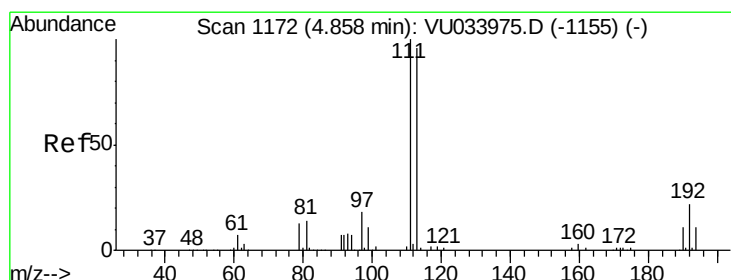
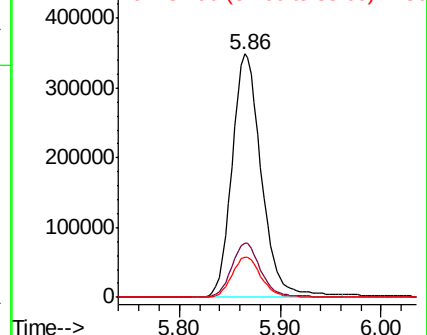
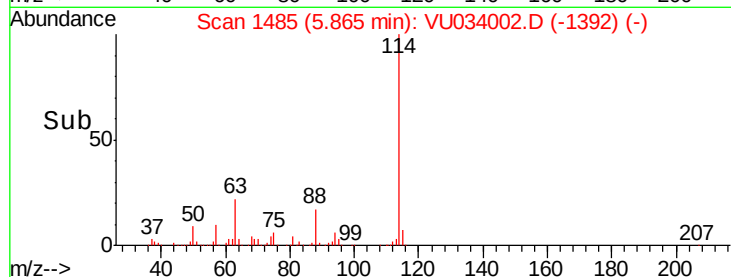
88 16.6 0.0 31.2



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: 50.683 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

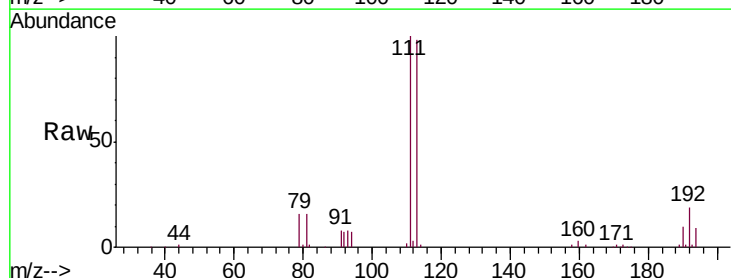
Tgt Ion:113 Resp: 242241

Ion Ratio Lower Upper

113 100

111 102.4 81.7 122.5

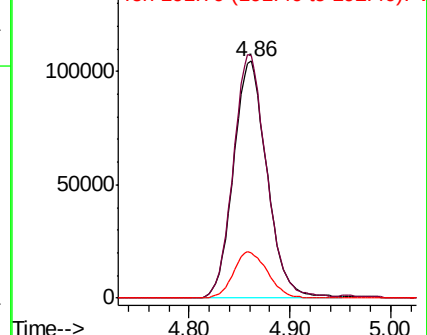
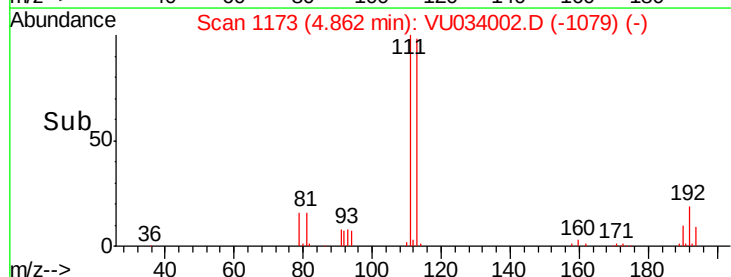
192 20.1 18.6 27.8

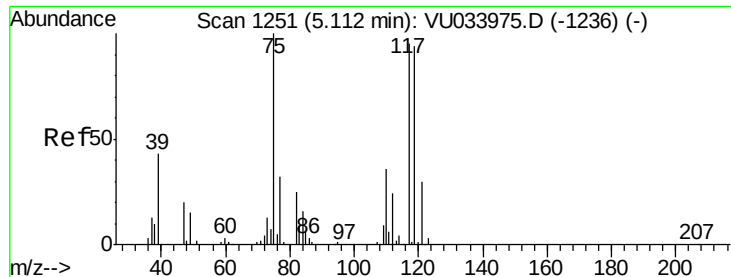


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.451 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B3-(2.5)

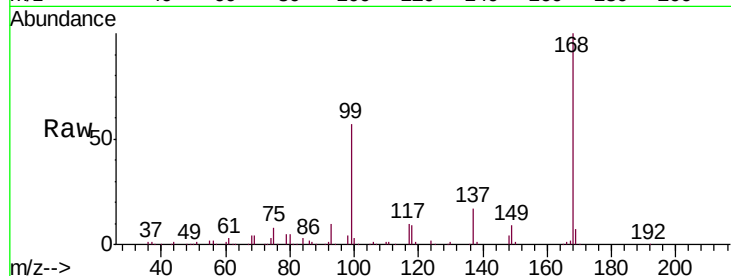
Tgt Ion: 75 Resp: 35499

Ion Ratio Lower Upper

75 100

110 7.3 18.2 54.6#

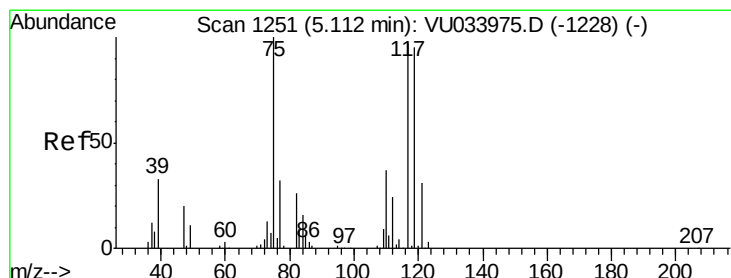
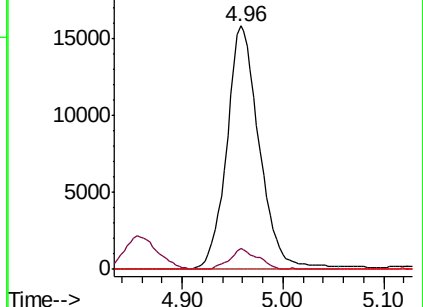
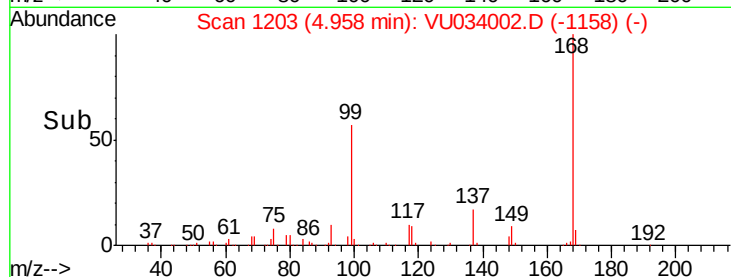
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VU033975.D (-1236) (-)

Ion 109.90 (109.60 to 110.60): VU033975.D (-1236) (-)

Ion 76.90 (76.60 to 77.60): VU033975.D (-1236) (-)



#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

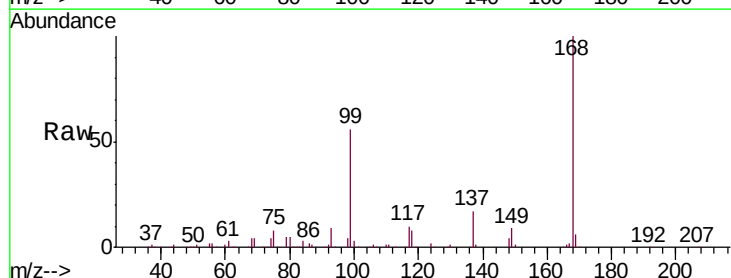
Tgt Ion: 117 Resp: 43456

Ion Ratio Lower Upper

117 100

119 5.1 78.4 117.6#

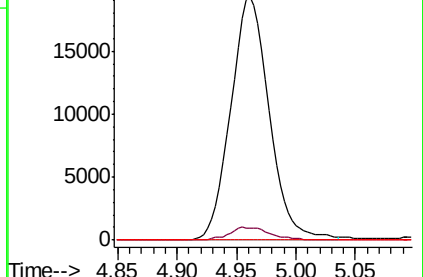
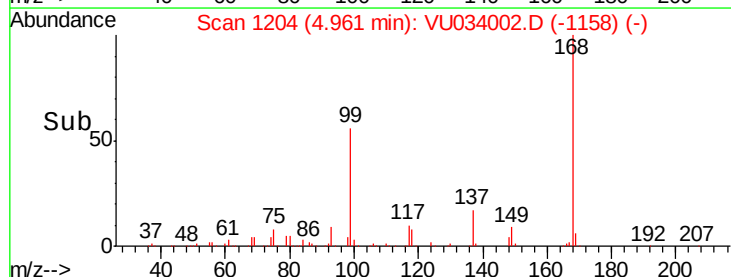
121 0.0 25.4 38.2#

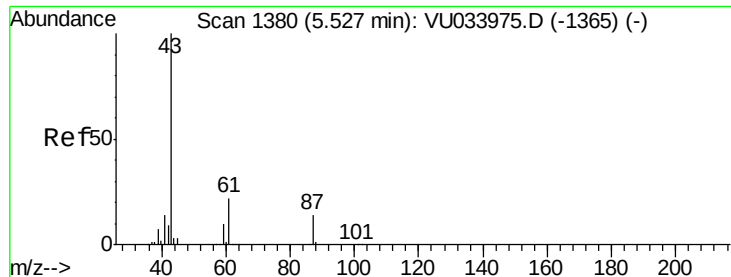


Abundance Ion 116.80 (116.50 to 117.50): VU033975.D (-1228) (-)

Ion 118.80 (118.50 to 119.50): VU033975.D (-1228) (-)

Ion 120.80 (120.50 to 121.50): VU033975.D (-1228) (-)

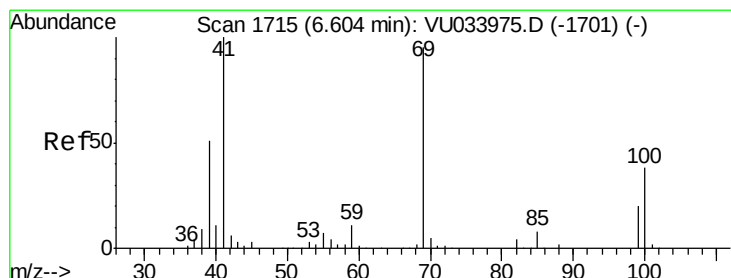
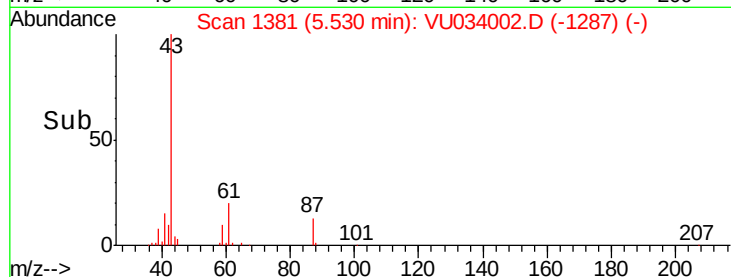
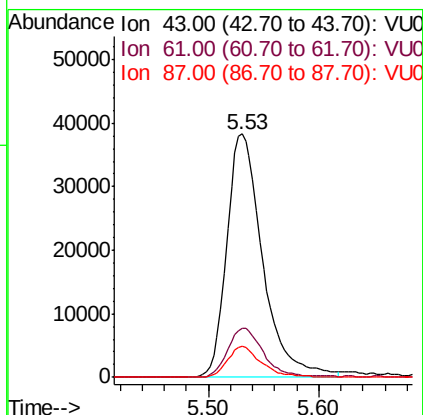
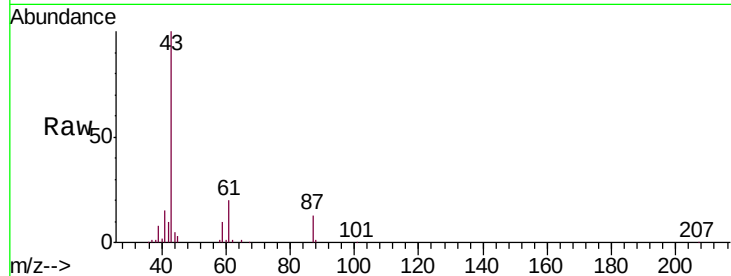




#43
Isopropyl Acetate
Concen: 8.625 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034002.D
Acq: 28 Aug 2019 04:15

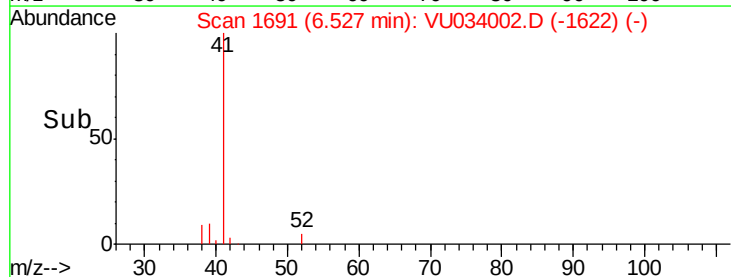
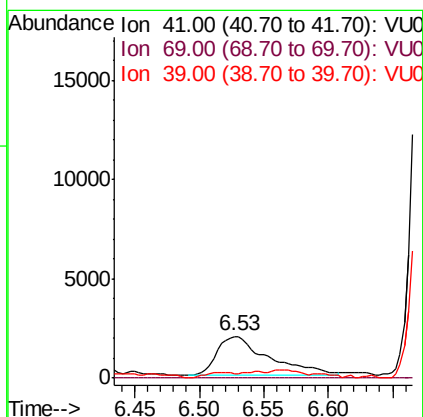
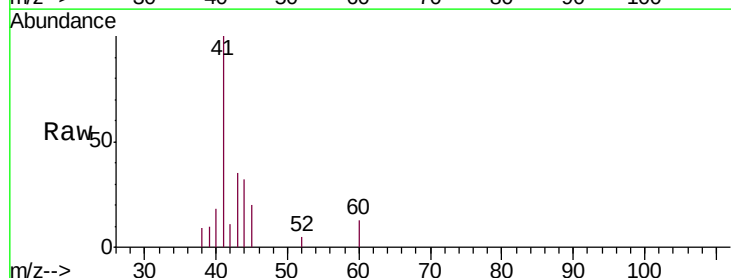
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B3-(2.5)

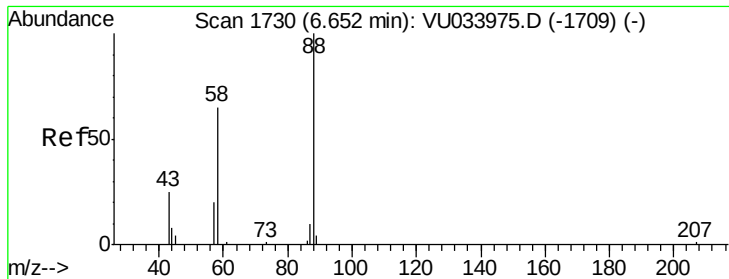
Tgt Ion: 43 Resp: 86382
Ion Ratio Lower Upper
43 100
61 20.1 17.8 26.8
87 12.1 11.9 17.9



#48
Methyl methacrylate
Concen: 1.177 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.08 min
Lab File: VU034002.D
Acq: 28 Aug 2019 04:15

Tgt Ion: 41 Resp: 5603
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: 1.645 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.03 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B3-(2.5)

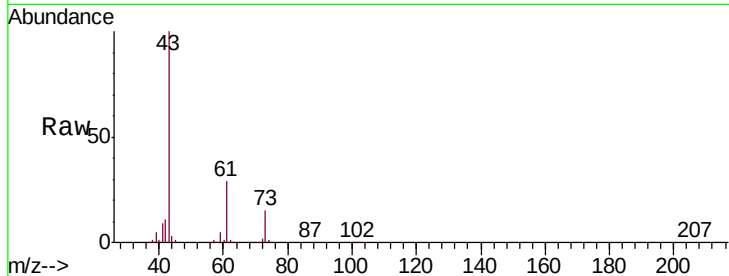
Tgt Ion: 88 Resp: 215

Ion Ratio Lower Upper

88 100

43 691317.2 0.0 0.0#

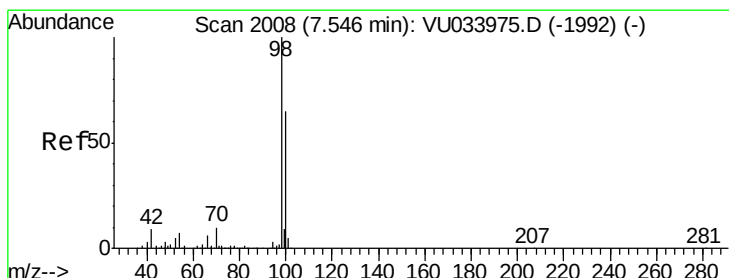
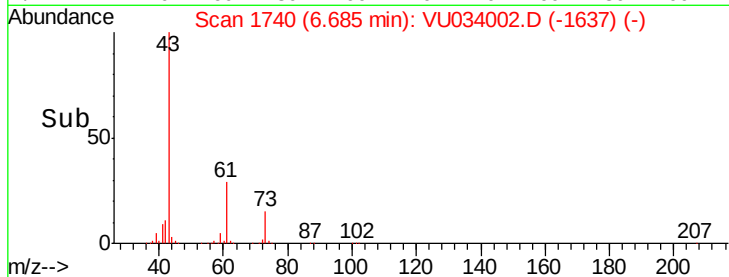
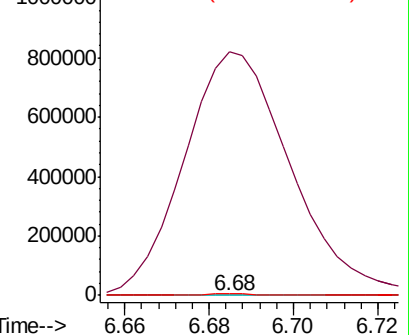
58 3462.3 56.6 85.0#



Abundance Ion 88.00 (87.70 to 88.70): VU033975.D (-1709) (-)

Ion 43.00 (42.70 to 43.70): VU033975.D (-1709) (-)

Ion 58.00 (57.70 to 58.70): VU033975.D (-1709) (-)



#50

Toluene-d8

Concen: 53.028 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034002.D

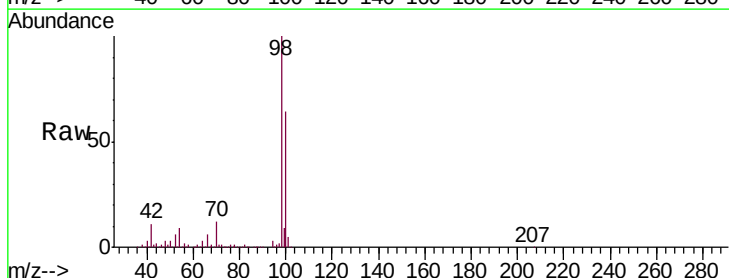
Acq: 28 Aug 2019 04:15

Tgt Ion: 98 Resp: 934839

Ion Ratio Lower Upper

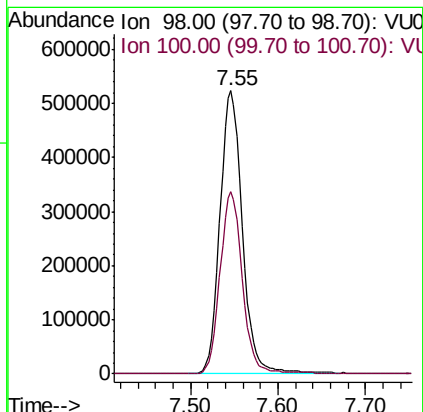
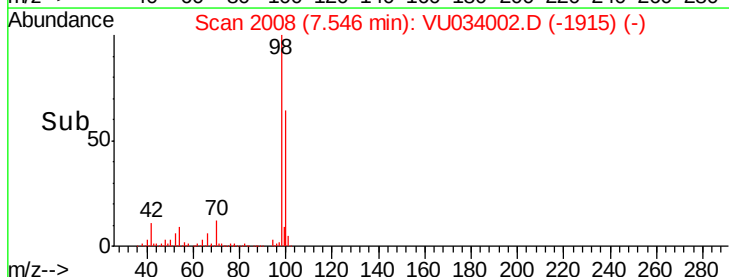
98 100

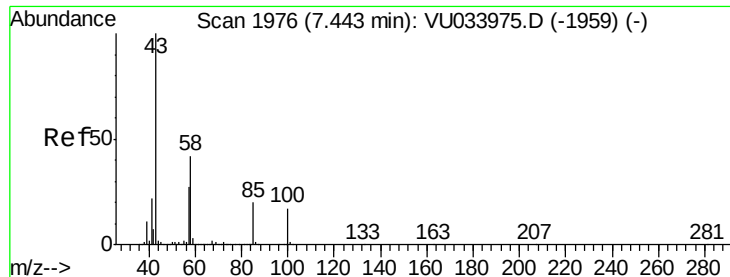
100 63.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VU033975.D (-1992) (-)

Ion 100.00 (99.70 to 100.70): VU033975.D (-1992) (-)

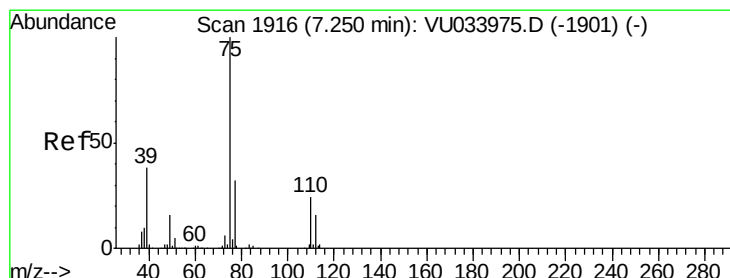
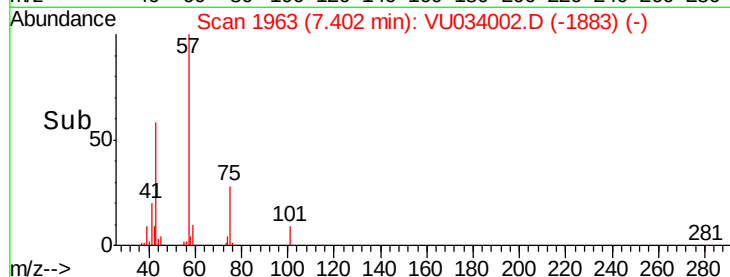
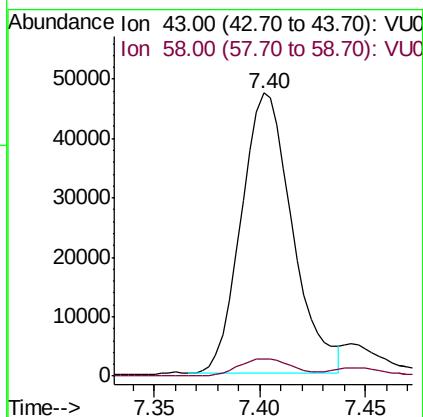
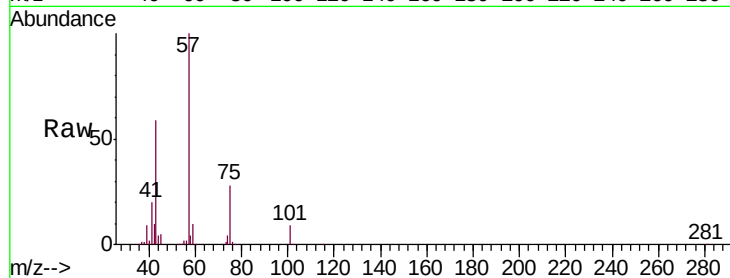




#51
 4-Methyl-2-Pentanone
 Concen: 11.486 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

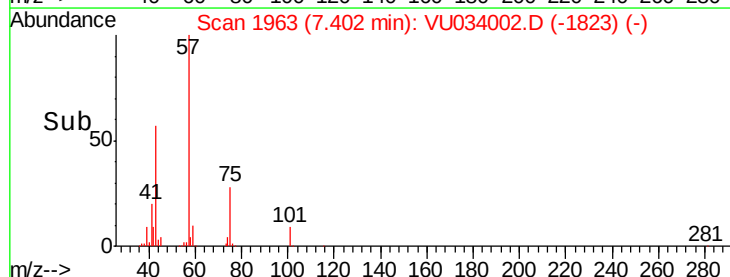
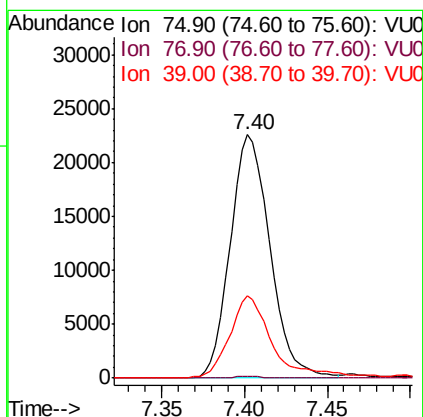
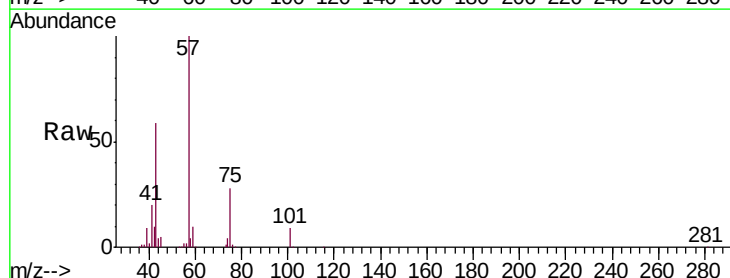
Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B3-(2.5)

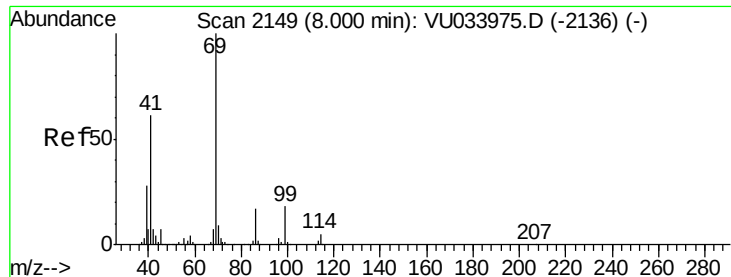
Tgt Ion: 43 Resp: 79318
 Ion Ratio Lower Upper
 43 100
 58 6.7 33.6 50.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.706 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

Tgt Ion: 75 Resp: 37750
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.6 38.4#
 39 33.8 30.7 46.1

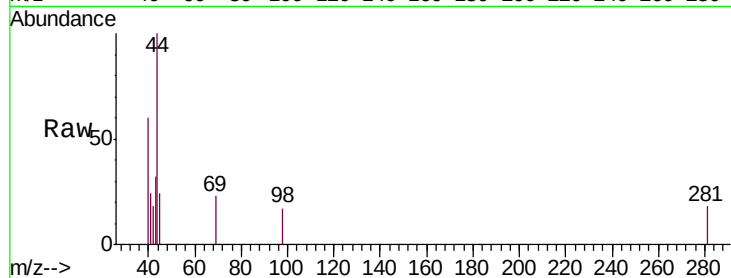




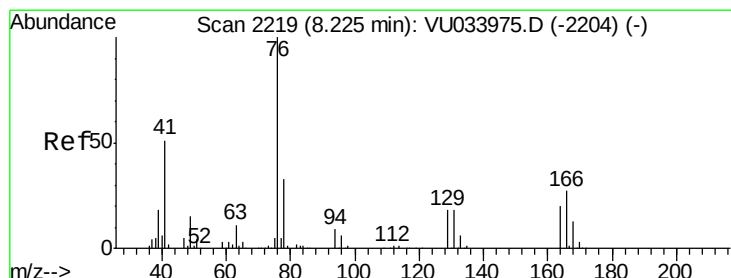
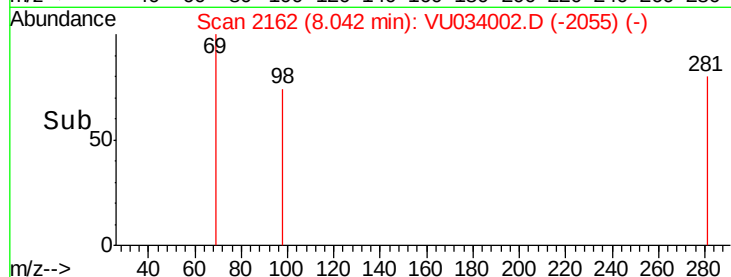
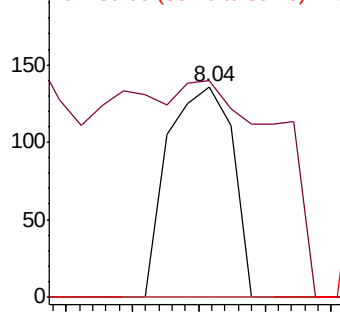
#56
 Ethyl methacrylate
 Concen: 2.525 ug/l
 RT: 8.04 min Scan# 2162
 Delta R.T. 0.04 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B3-(2.5)

Tgt Ion: 69 Resp: 92
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.6 72.8#
 39 0.0 22.4 33.6#

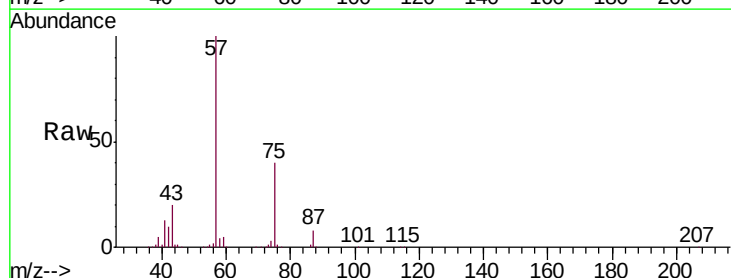


Abundance Ion 69.00 (68.70 to 69.70): VU0
 Ion 41.00 (40.70 to 41.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0

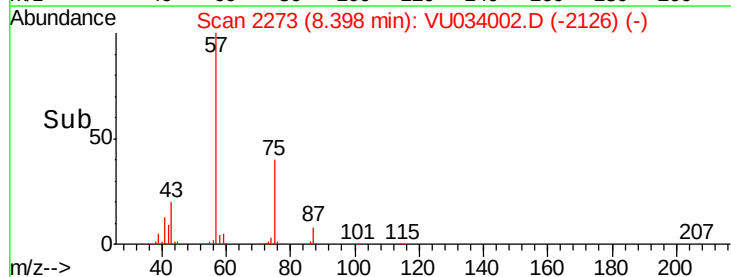
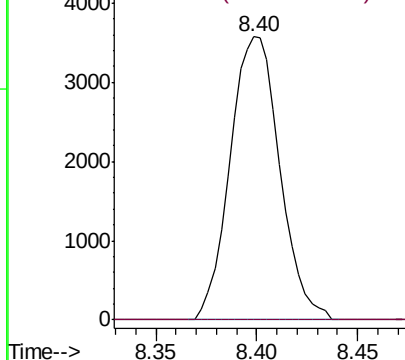


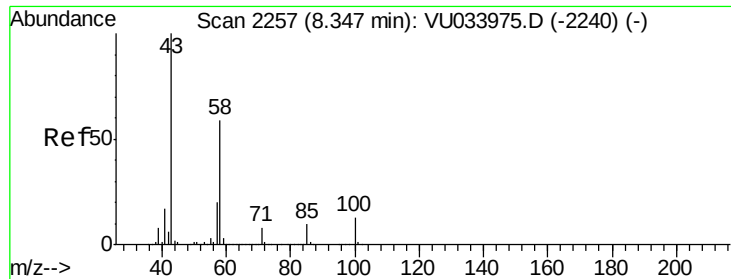
#57
 1,3-Dichloropropane
 Concen: 0.733 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.17 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

Tgt Ion: 76 Resp: 6161
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VU0
 Ion 77.90 (77.60 to 78.60): VU0

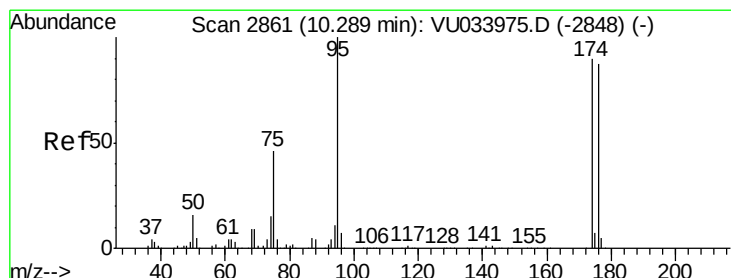
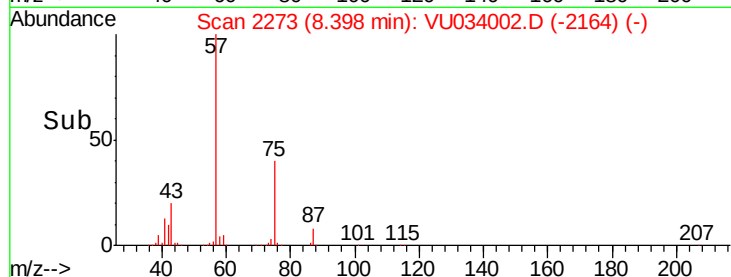
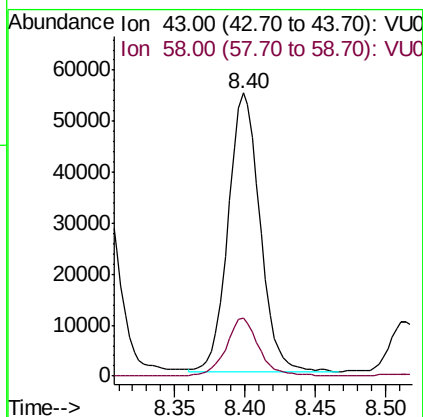
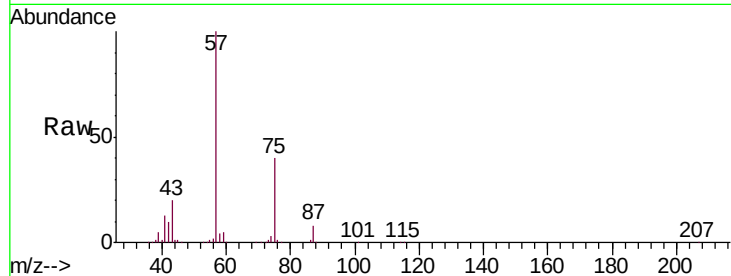




#59
2-Hexanone
Concen: 16.251 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034002.D
Acq: 28 Aug 2019 04:15

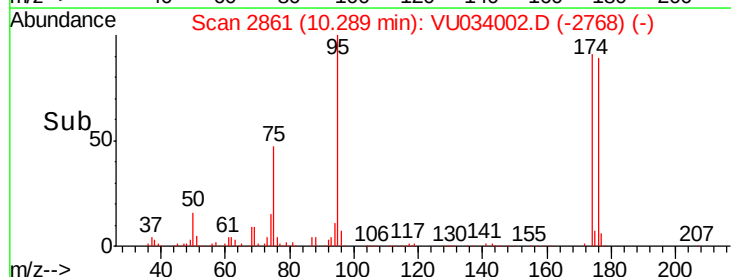
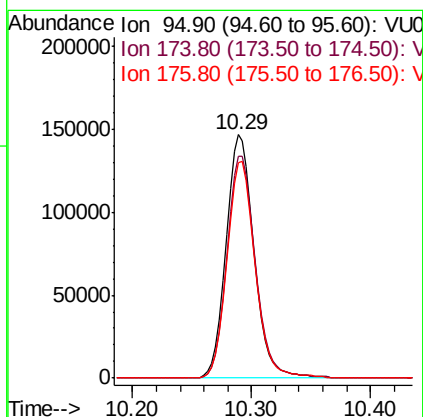
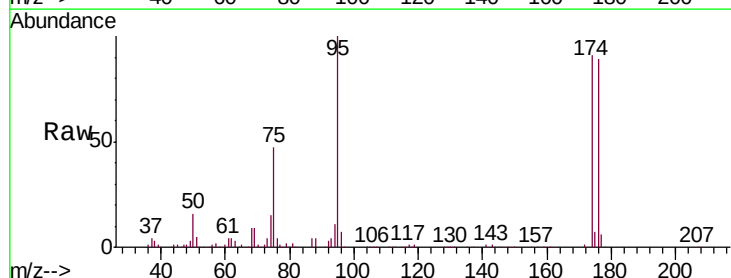
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B3-(2.5)

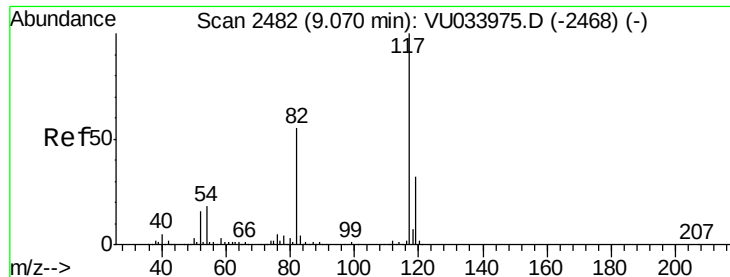
Tgt Ion: 43 Resp: 86258
Ion Ratio Lower Upper
43 100
58 21.8 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 35.297 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034002.D
Acq: 28 Aug 2019 04:15

Tgt Ion: 95 Resp: 238699
Ion Ratio Lower Upper
95 100
174 93.0 0.0 183.8
176 89.8 0.0 176.4

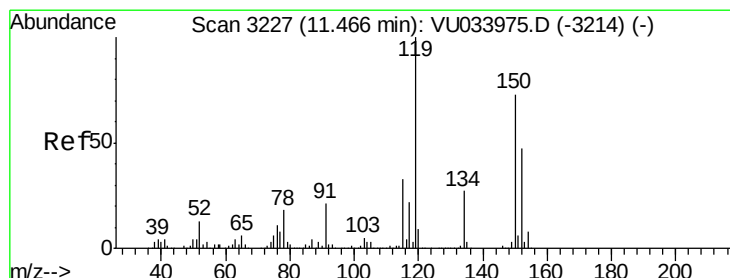
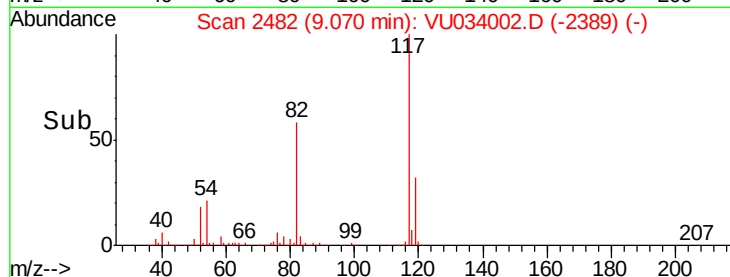
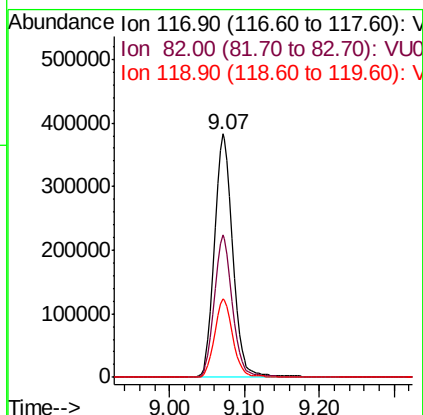
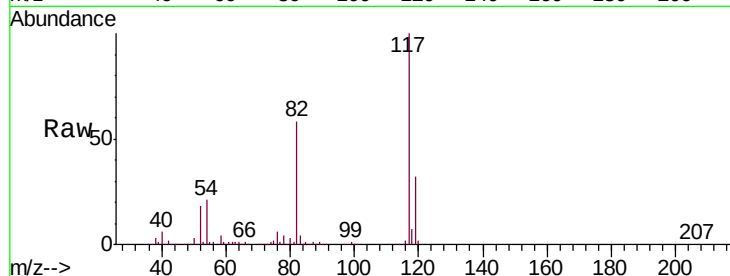




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. 0.00 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

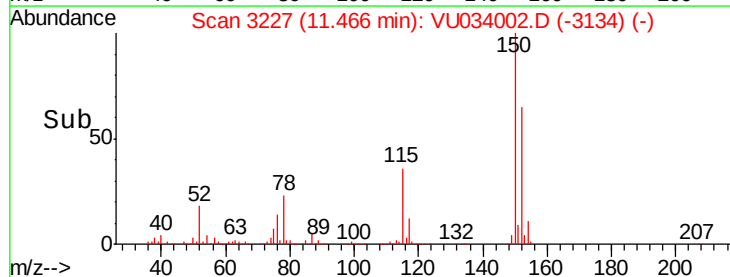
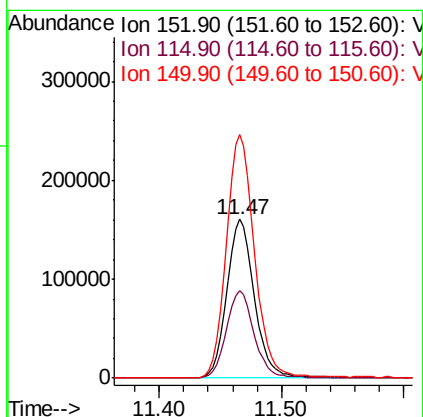
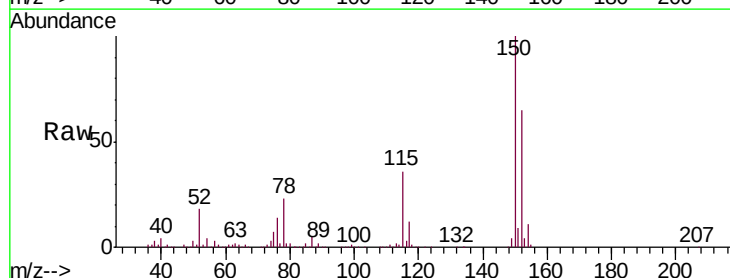
Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B3-(2.5)

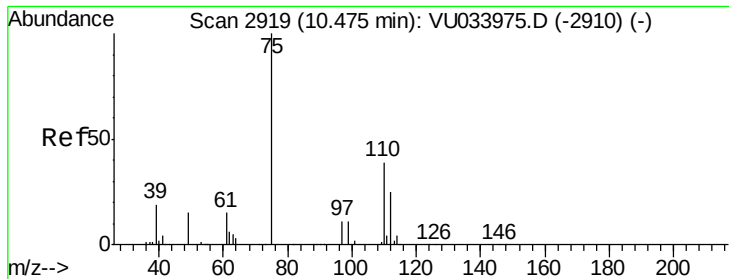
Tgt Ion:117 Resp: 656502
 Ion Ratio Lower Upper
 117 100
 82 58.3 43.8 65.8
 119 32.3 25.7 38.5



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.47 min Scan# 3227
 Delta R.T. 0.00 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

Tgt Ion:152 Resp: 254598
 Ion Ratio Lower Upper
 152 100
 115 55.5 38.6 115.7
 150 156.9 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 22.174 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

Instrument :

MSVOA_U

ClientSampleId :

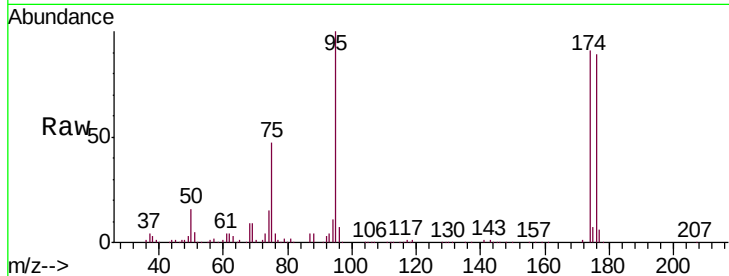
T2-S-B3-(2.5)

Tgt Ion: 75 Resp: 112485

Ion Ratio Lower Upper

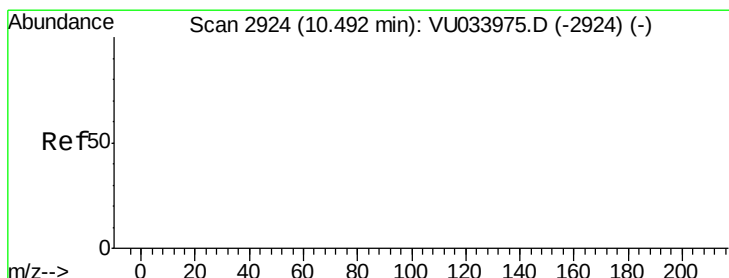
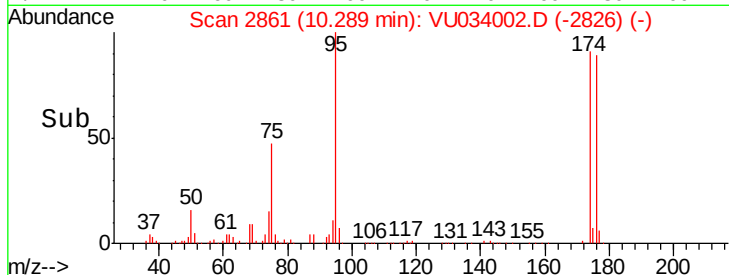
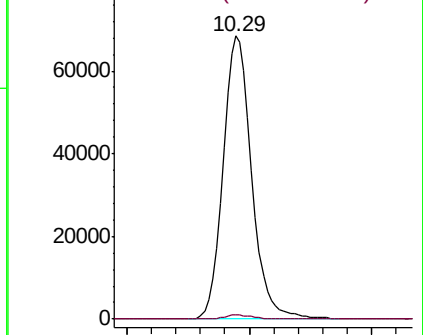
75 100

77 1.5 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: 63.511 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034002.D

Acq: 28 Aug 2019 04:15

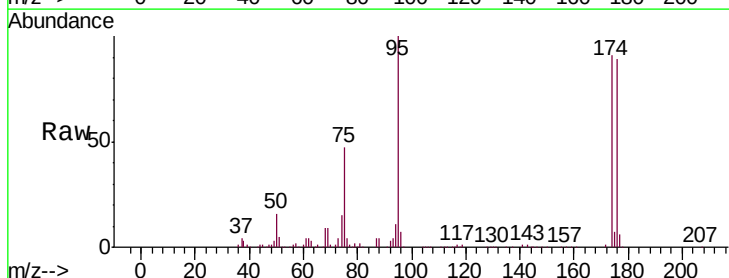
Tgt Ion: 75 Resp: 112485

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

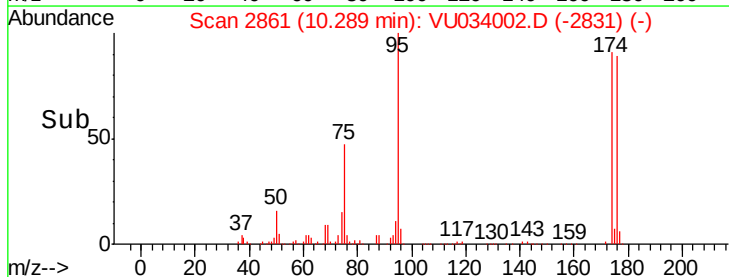
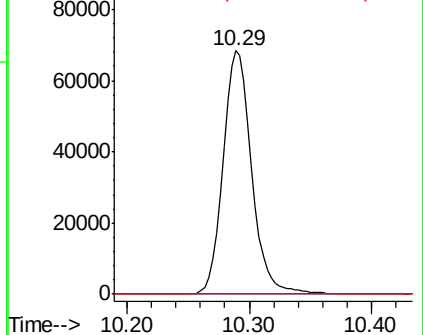
89 0.0 0.0 0.0

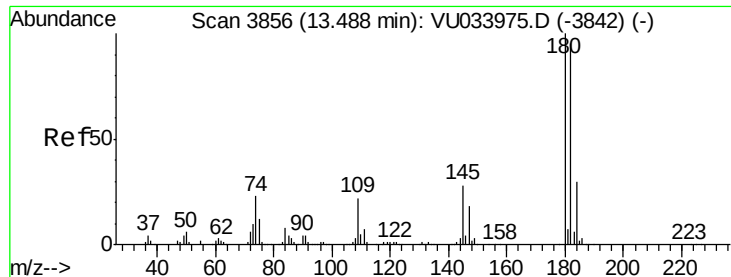


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

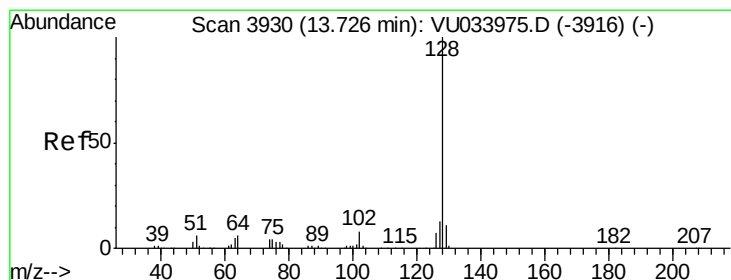
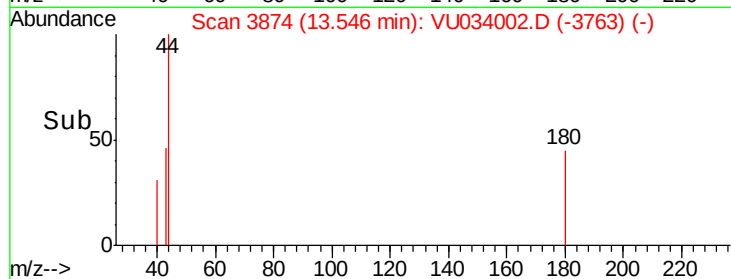
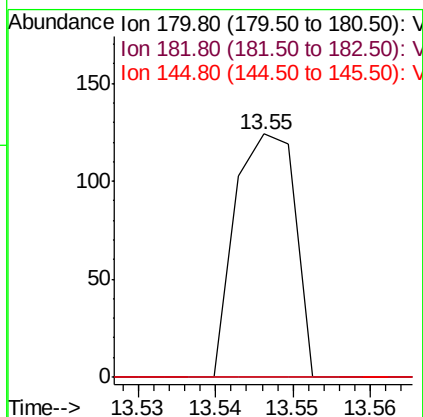
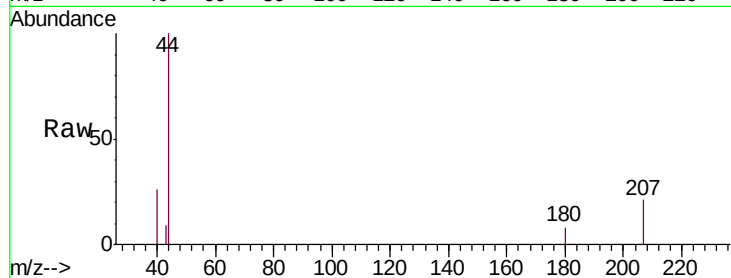




#93
 1,2,4-Trichlorobenzene
 Concen: 1.753 ug/l
 RT: 13.55 min Scan# 3874
 Delta R.T. 0.06 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B3-(2.5)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	14.4	43.2#



#95
 Naphthalene
 Concen: 2.099 ug/l
 RT: 13.79 min Scan# 3950
 Delta R.T. 0.06 min
 Lab File: VU034002.D
 Acq: 28 Aug 2019 04:15

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#

