

Data File : VU034005.D
Acq On : 28 Aug 2019 05:27
Operator : JC/SP
Sample : K4516-38
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

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

Quant Time: Aug 28 06:35:19 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	450086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	731112	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	602743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	302715	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	307807	61.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.12%	
35) Dibromofluoromethane	4.86	113	242158	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
50) Toluene-d8	7.55	98	941984	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
62) 4-Bromofluorobenzene	10.29	95	307447	44.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.44%	

Target Compounds

						Qvalue
3) Chloromethane	1.33	50	3363	1.585	ug/l	92
5) Bromomethane	1.61	94	930	0.339	ug/l #	79
8) Diethyl Ether	2.10	74	654	0.290	ug/l #	1
11) Tert butyl alcohol	2.82	59	6716	5.186	ug/l #	85
16) Acetone	2.31	43	13115	5.480	ug/l	98
18) Methyl Acetate	2.61	43	8129	1.379	ug/l	90
20) Methylene Chloride	2.69	84	13362	2.631	ug/l	92
25) 2-Butanone	4.28	43	723	0.211	ug/l #	46
31) Cyclohexane	4.96	56	10372	1.407	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	35868	5.356	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42826	6.276	ug/l #	16
40) Benzene	5.37	78	6840	0.344	ug/l	92
43) Isopropyl Acetate	5.53	43	68783	6.679	ug/l #	92
48) Methyl methacrylate	6.68	41	84945	17.349	ug/l #	36
51) 4-Methyl-2-Pentanone	7.40	43	70396	9.914	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	34495	4.182	ug/l #	69
56) Ethyl methacrylate	7.93	69	91	2.525	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	3266	0.378	ug/l #	43
59) 2-Hexanone	8.40	43	44487	8.151	ug/l #	52
74) N-amyl acetate	9.92	43	1772	0.242	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	149995	24.868	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	149995	71.228	ug/l #	100
95) Naphthalene	13.80	128	63	2.086	ug/l #	70

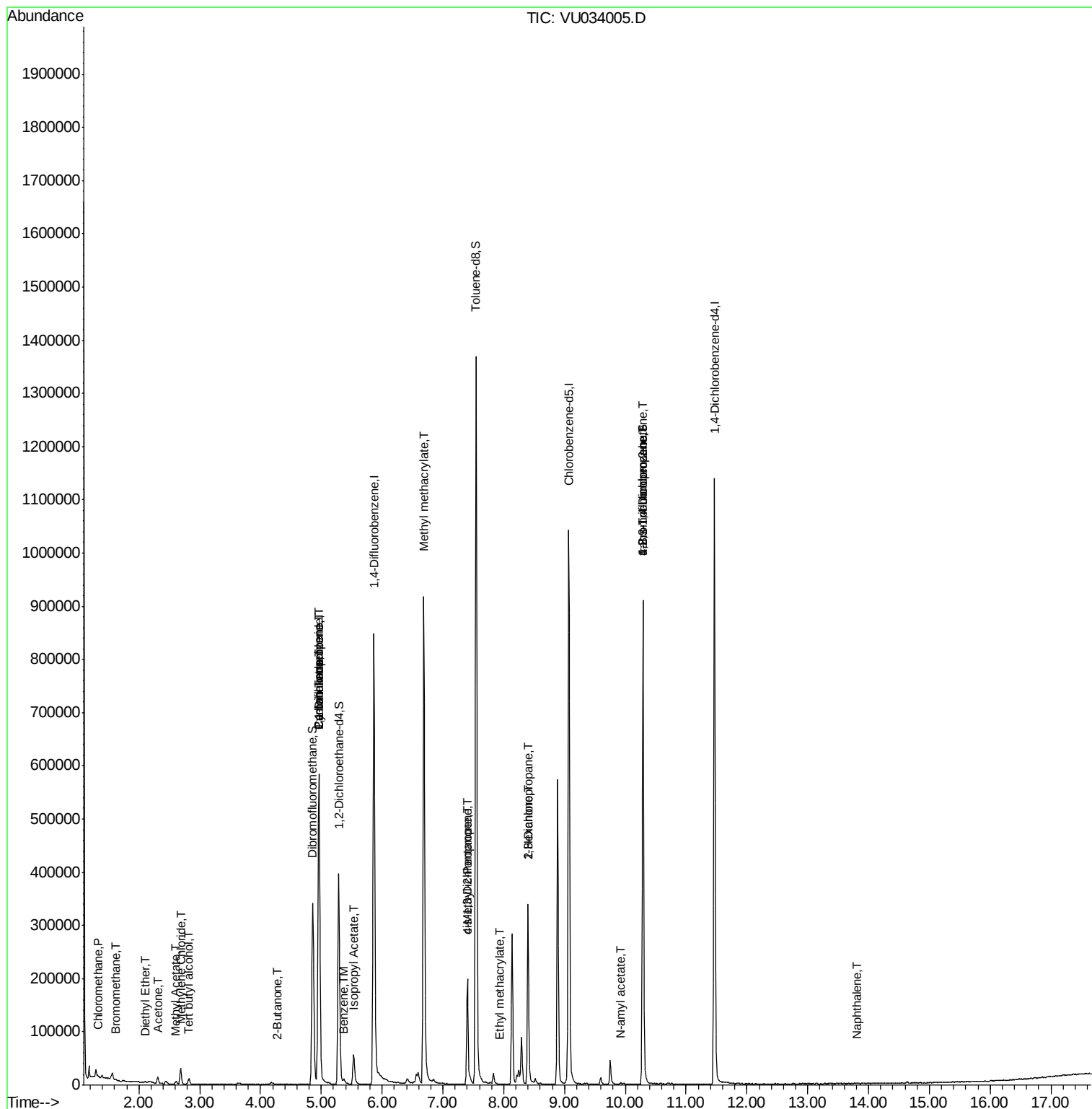
(#) = qualifier out of range (m) = manual integration (+) = signals summed

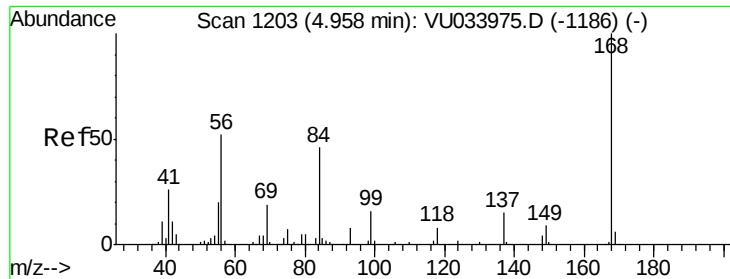
Data File : VU034005.D

```
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Instrument :
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Quant Title : SW846 8260
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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: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

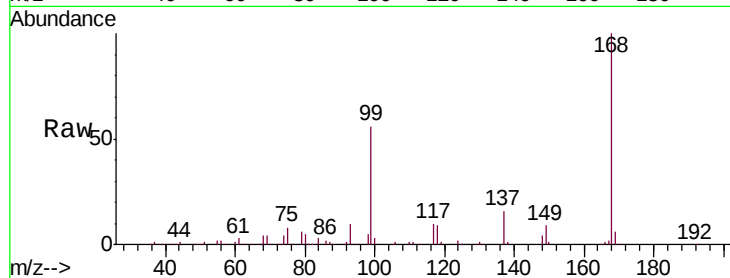
T2-S-D-(0)

Tgt Ion:168 Resp: 450086

Ion Ratio Lower Upper

168 100

99 55.8 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

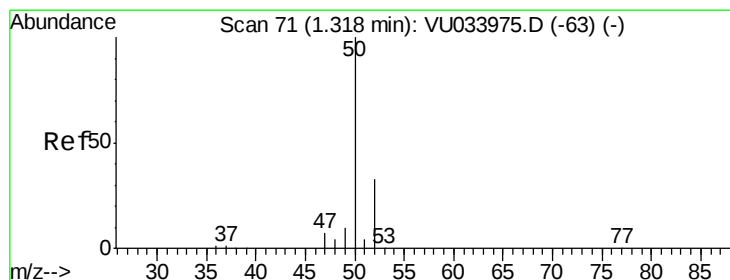
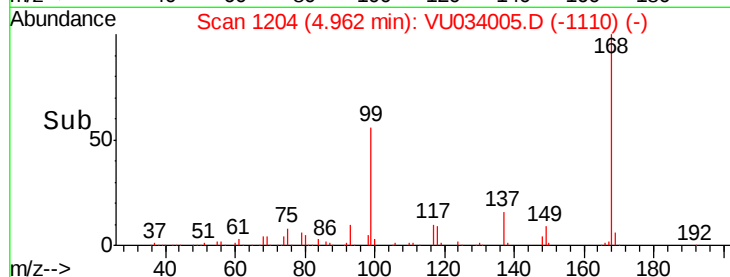
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.585 ug/l

RT: 1.33 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU034005.D

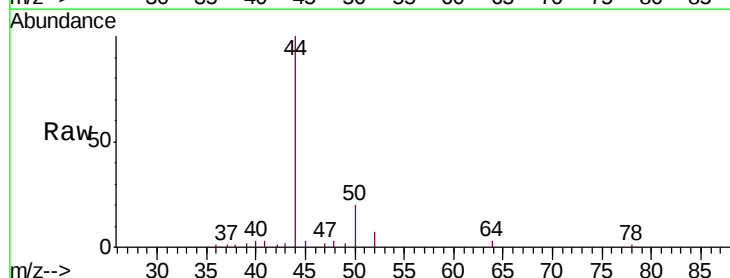
Acq: 28 Aug 2019 05:27

Tgt Ion: 50 Resp: 3363

Ion Ratio Lower Upper

50 100

52 37.2 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) (-)

1.33

2500

2000

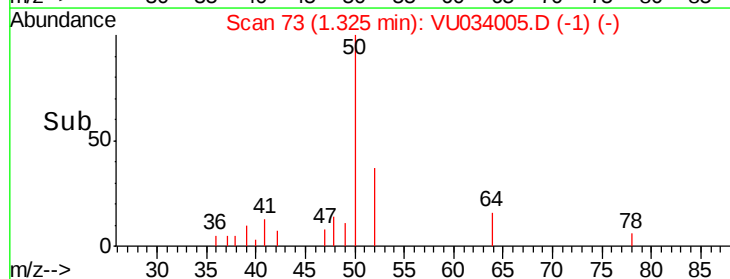
1500

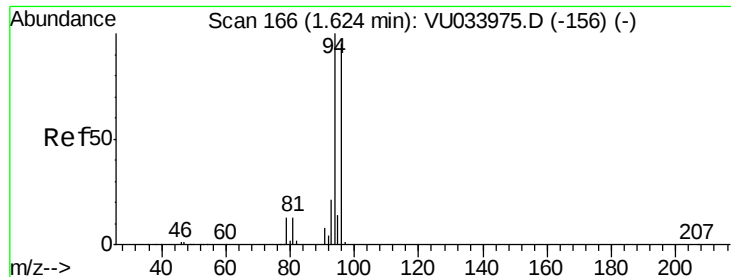
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.339 ug/l

RT: 1.61 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

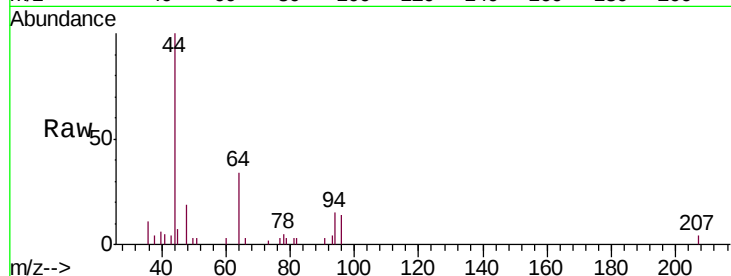
T2-S-D-(0)

Tgt Ion: 94 Resp: 930

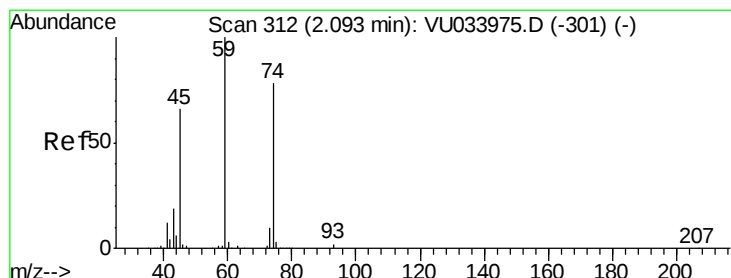
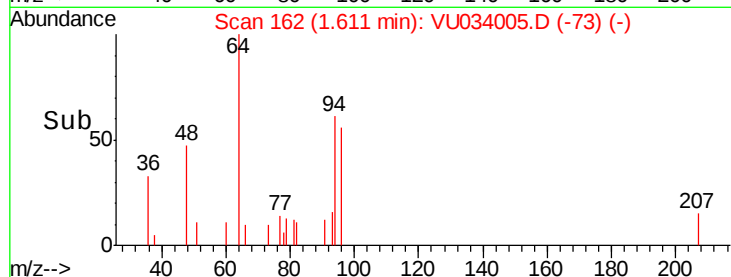
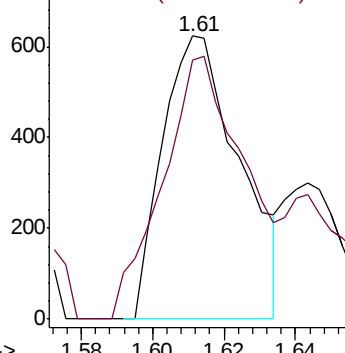
Ion Ratio Lower Upper

94 100

96 75.0 76.3 114.5#



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



#8

Diethyl Ether

Concen: 0.290 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034005.D

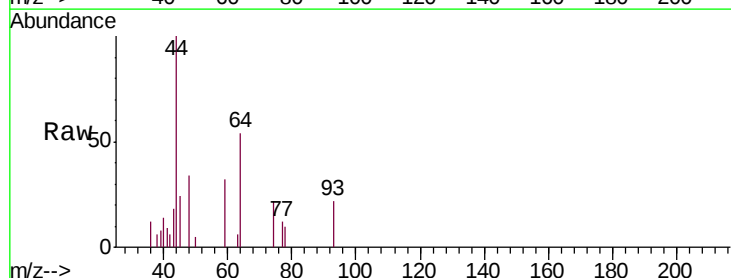
Acq: 28 Aug 2019 05:27

Tgt Ion: 74 Resp: 654

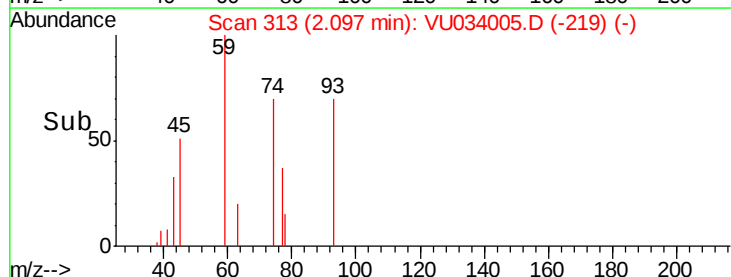
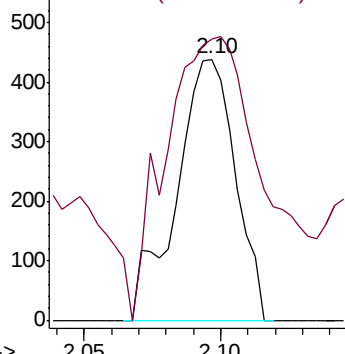
Ion Ratio Lower Upper

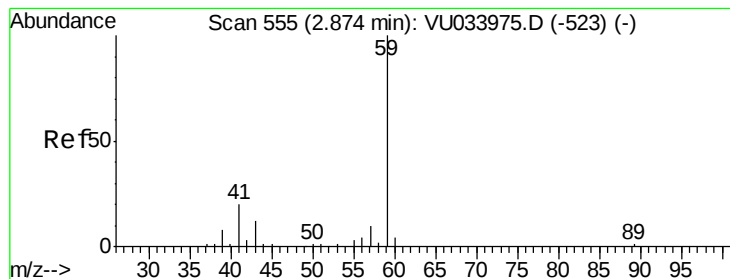
74 100

45 183.2 42.8 128.4#



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





#11

Tert butyl alcohol

Concen: 5.186 ug/l

RT: 2.82 min Scan# 537

Delta R.T. -0.06 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

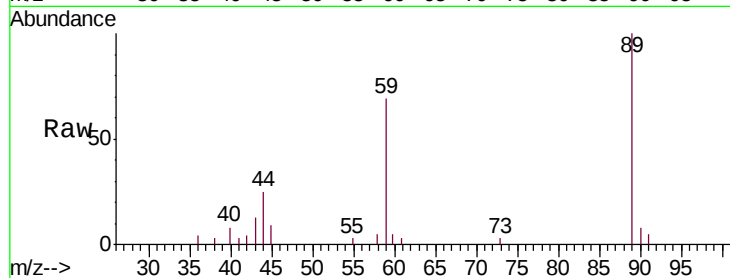
T2-S-D-(0)

Tgt Ion: 59 Resp: 6716

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

3000

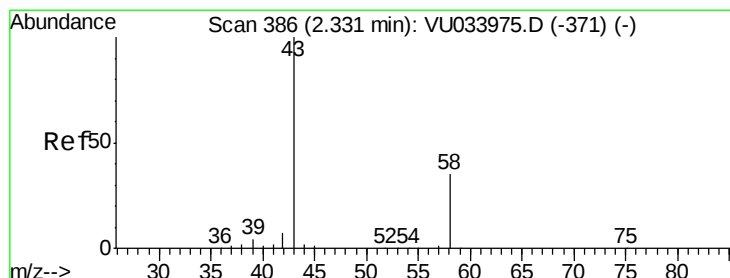
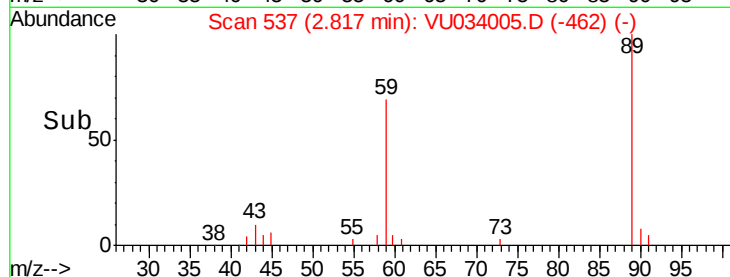
2000

1000

0

2.75 2.80 2.85

Time-->



#16

Acetone

Concen: 5.480 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU034005.D

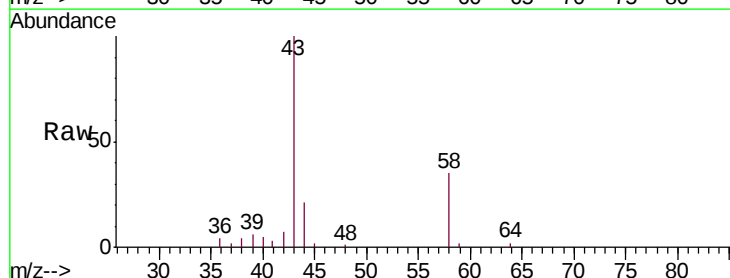
Acq: 28 Aug 2019 05:27

Tgt Ion: 43 Resp: 13115

Ion Ratio Lower Upper

43 100

58 35.9 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

8000

6000

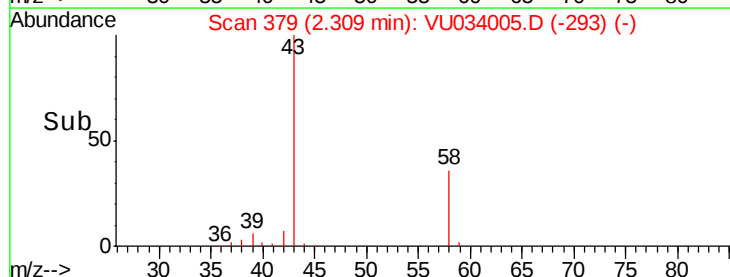
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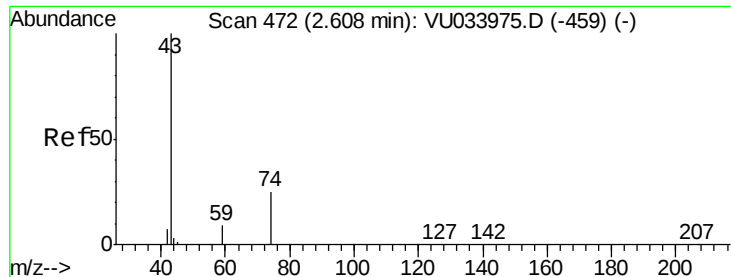
2000

0

2.25 2.30 2.35

Time-->

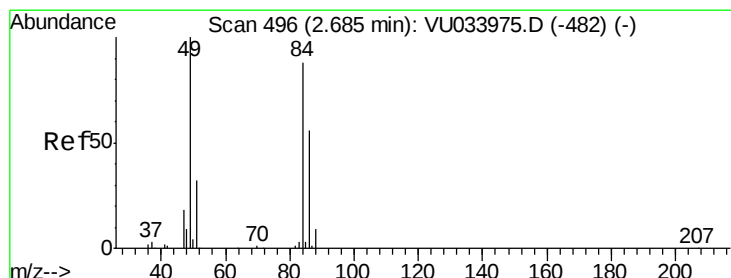
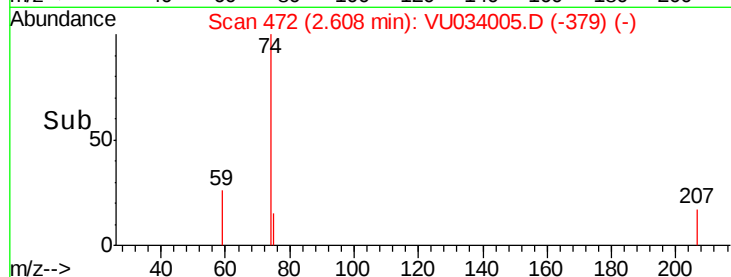
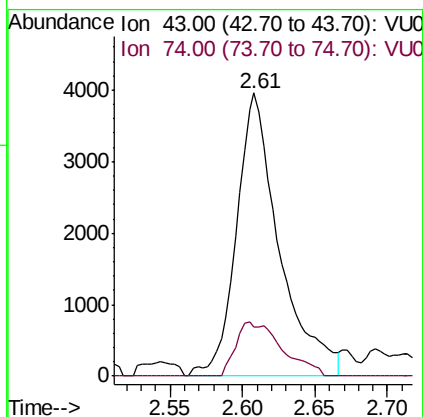
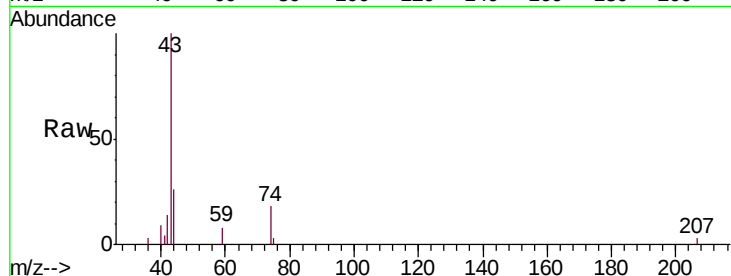




#18
Methyl Acetate
Concen: 1.379 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU034005.D
Acq: 28 Aug 2019 05:27

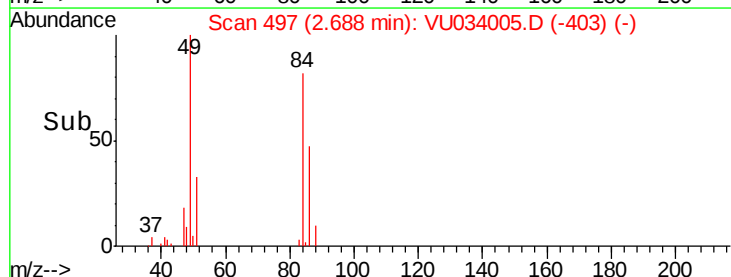
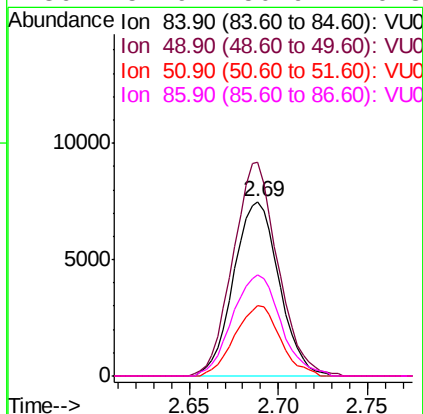
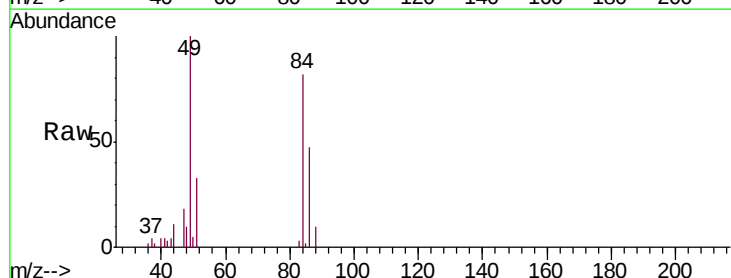
Instrument :
MSVOA_U
ClientSampleId :
T2-S-D(0)

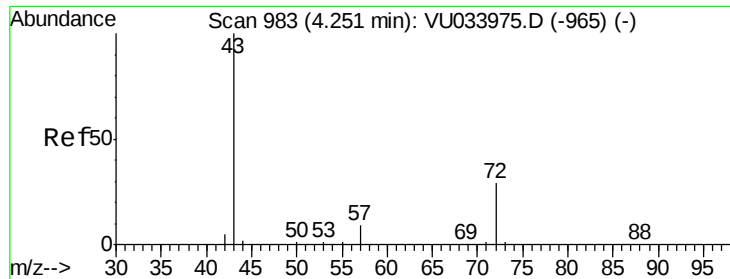
Tgt Ion: 43 Resp: 8129
Ion Ratio Lower Upper
43 100
74 20.7 20.5 30.7



#20
Methylene Chloride
Concen: 2.631 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034005.D
Acq: 28 Aug 2019 05:27

Tgt Ion: 84 Resp: 13362
Ion Ratio Lower Upper
84 100
49 122.4 91.3 136.9
51 40.5 28.9 43.3
86 57.9 50.9 76.3

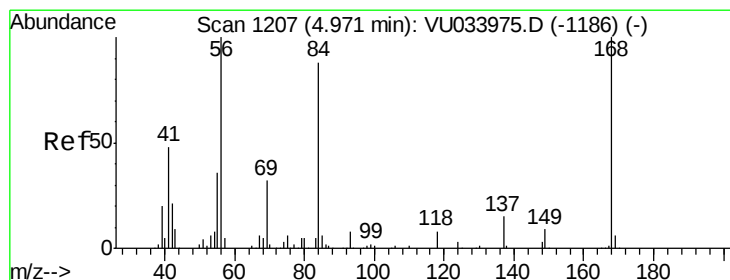
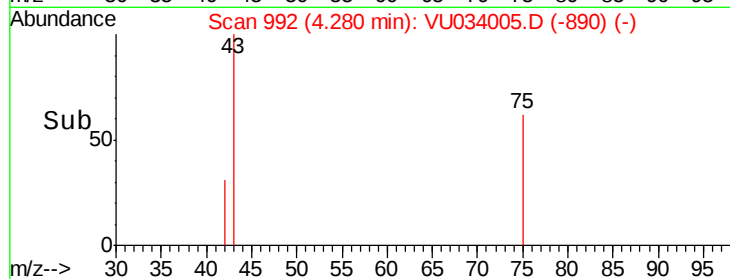
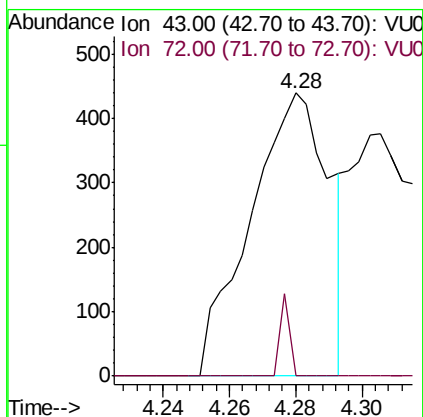
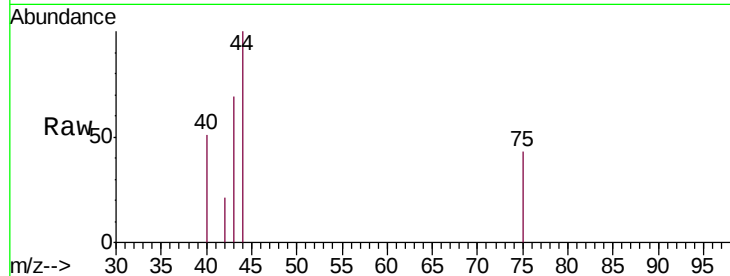




#25
2-Butanone
Concen: 0.211 ug/l
RT: 4.28 min Scan# 992
Delta R.T. 0.03 min
Lab File: VU034005.D
Acq: 28 Aug 2019 05:27

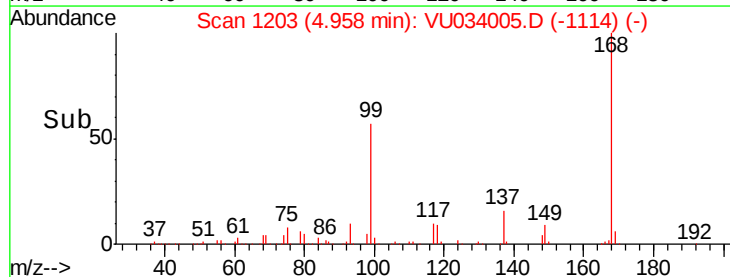
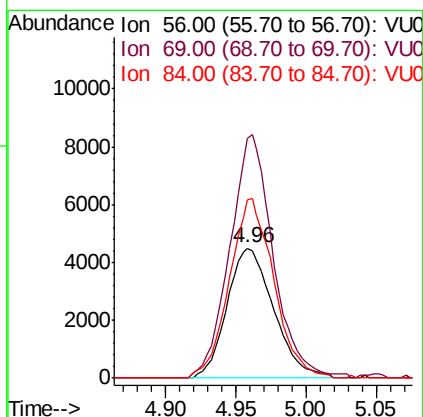
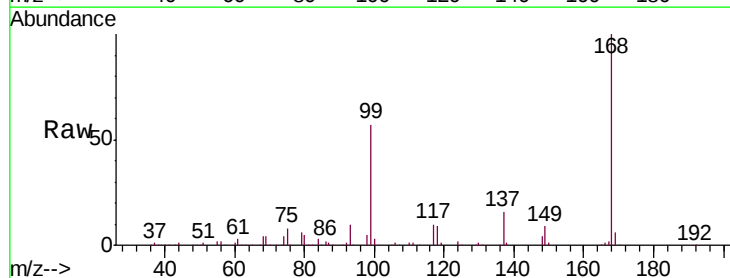
Instrument :
MSVOA_U
ClientSampleId :
T2-S-D-(0)

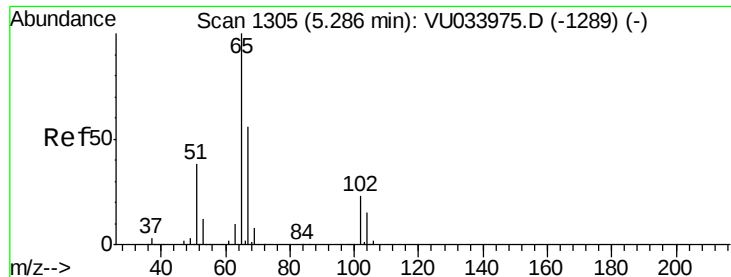
Tgt Ion: 43 Resp: 723
Ion Ratio Lower Upper
43 100
72 0.0 22.9 34.3#



#31
Cyclohexane
Concen: 1.407 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034005.D
Acq: 28 Aug 2019 05:27

Tgt Ion: 56 Resp: 10372
Ion Ratio Lower Upper
56 100
69 184.8 25.9 38.9#
84 136.8 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 61.558 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

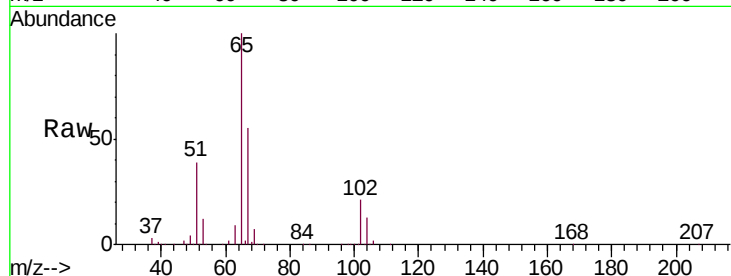
T2-S-D-(0)

Tgt Ion: 65 Resp: 307807

Ion Ratio Lower Upper

65 100

67 54.9 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) (-)

5.29

150000

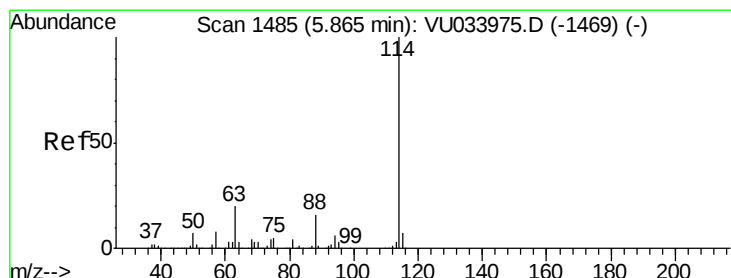
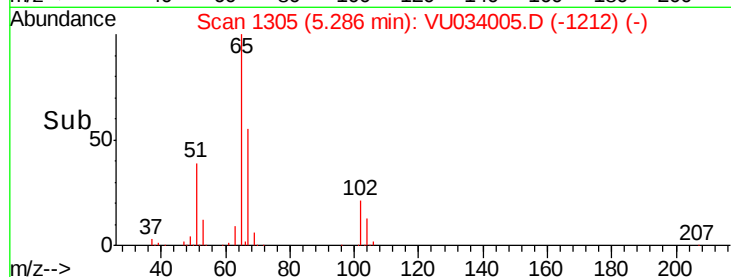
100000

50000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

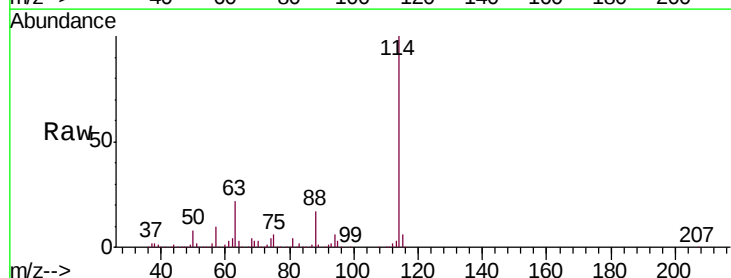
Tgt Ion: 114 Resp: 731112

Ion Ratio Lower Upper

114 100

63 22.4 0.0 39.0

88 16.5 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VU033975.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU033975.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU033975.D (-1469) (-)

5.87

400000

300000

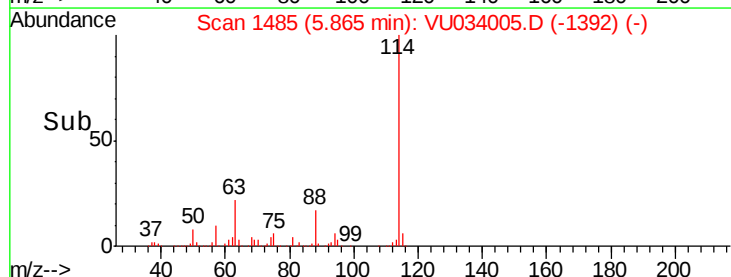
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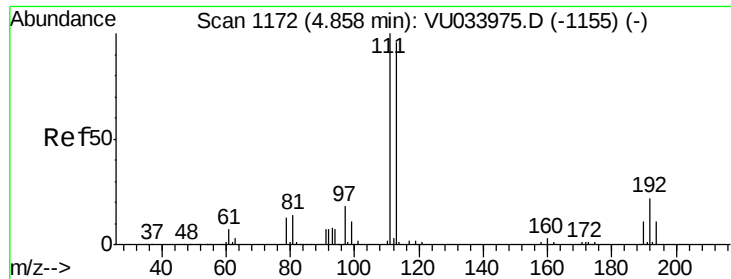
100000

0

Time-->

5.70 5.80 5.90 6.00 6.10

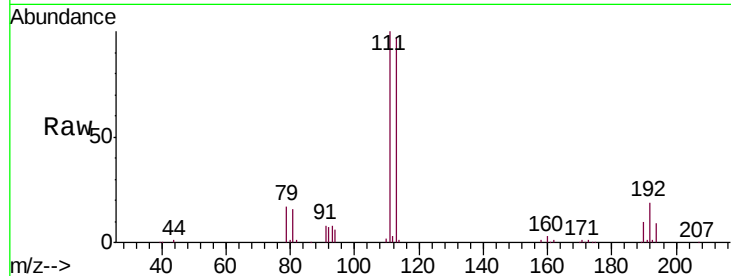




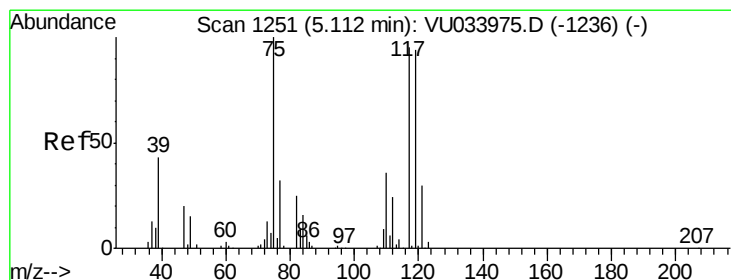
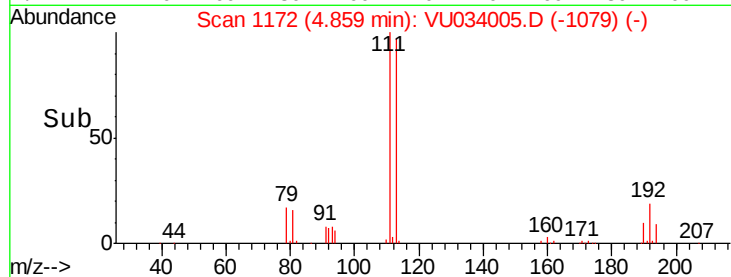
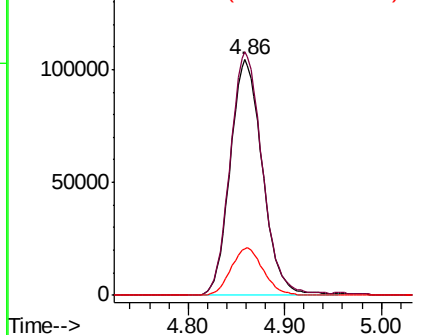
#35
 Dibromofluoromethane
 Concen: 49.274 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034005.D
 Acq: 28 Aug 2019 05:27

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

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.7	122.5
192	20.2	18.6	27.8

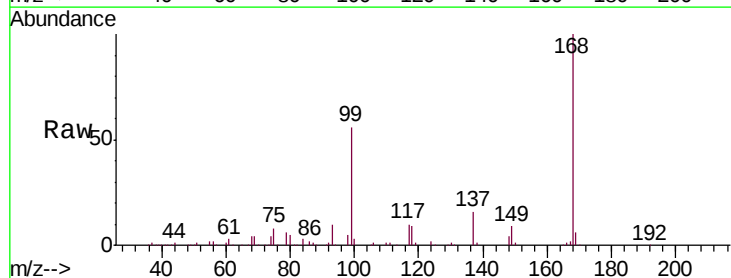


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

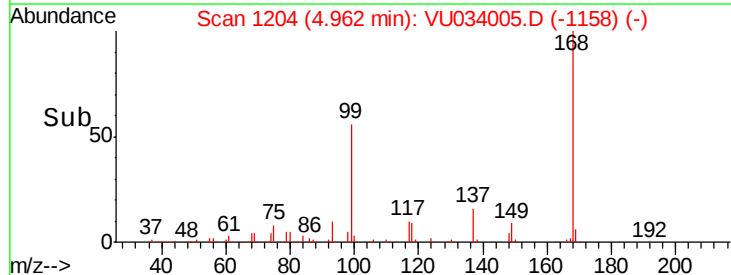
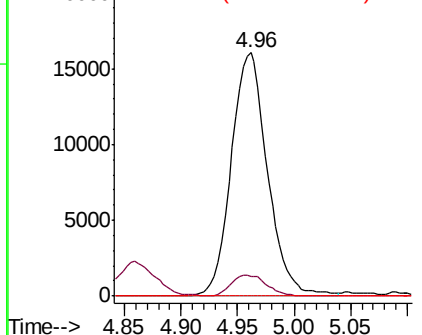


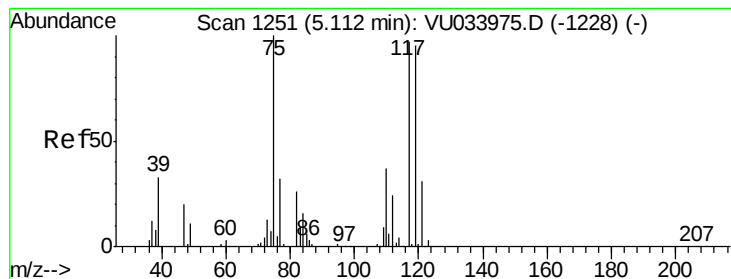
#36
 1,1-Dichloropropene
 Concen: 5.356 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034005.D
 Acq: 28 Aug 2019 05:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.2	54.6#
77	0.0	24.8	37.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.276 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

T2-S-D-(0)

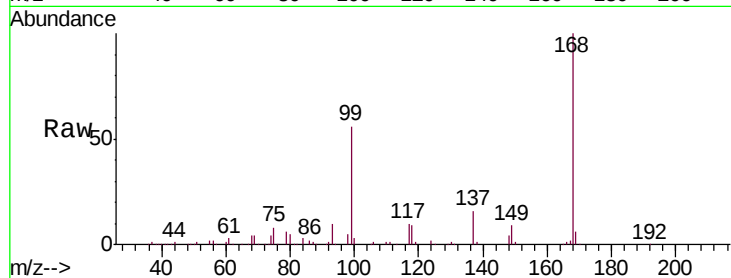
Tgt Ion:117 Resp: 42826

Ion Ratio Lower Upper

117 100

119 6.0 78.4 117.6#

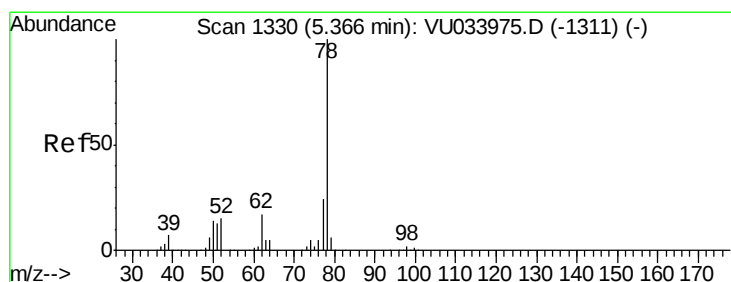
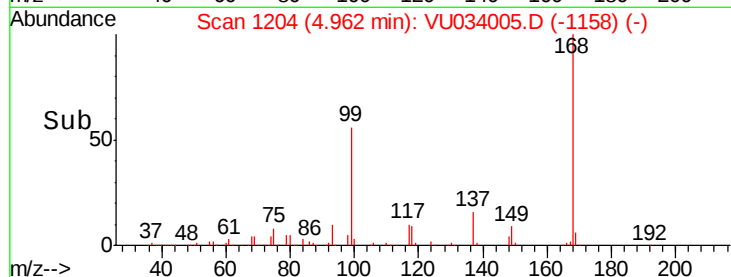
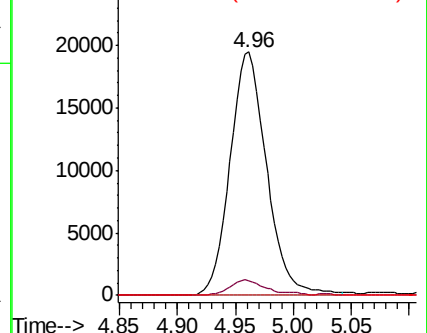
121 0.0 25.4 38.2#



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



#40

Benzene

Concen: 0.344 ug/l

RT: 5.37 min Scan# 1332

Delta R.T. 0.01 min

Lab File: VU034005.D

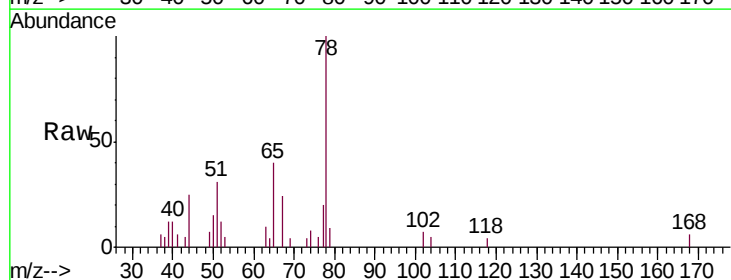
Acq: 28 Aug 2019 05:27

Tgt Ion: 78 Resp: 6840

Ion Ratio Lower Upper

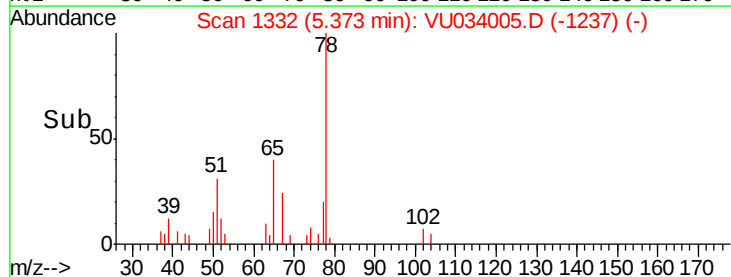
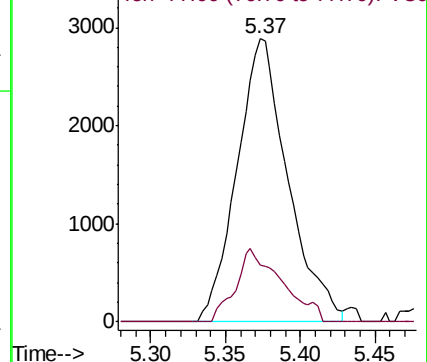
78 100

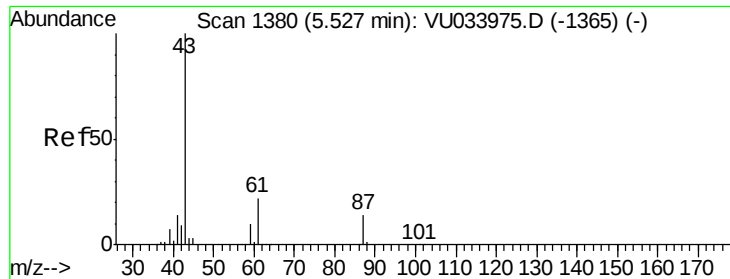
77 20.0 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#43

Isopropyl Acetate

Concen: 6.679 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

T2-S-D-(0)

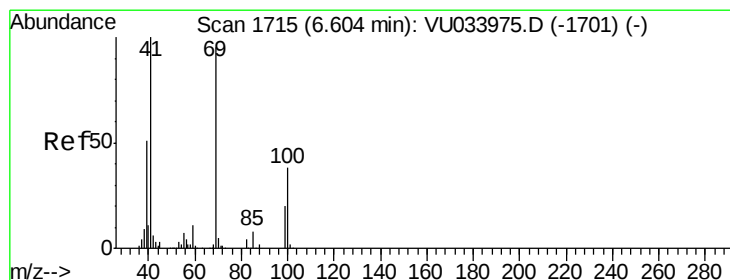
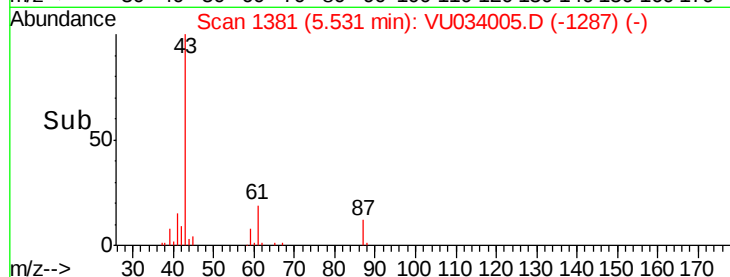
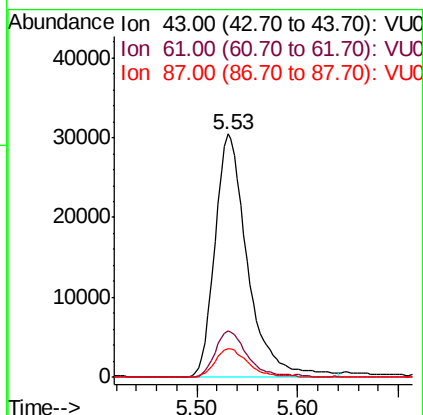
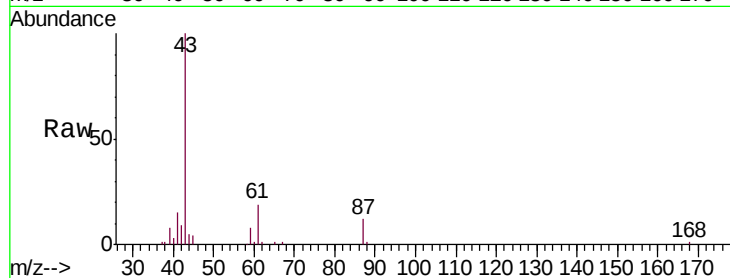
Tgt Ion: 43 Resp: 68783

Ion Ratio Lower Upper

43 100

61 18.6 17.8 26.8

87 11.8 11.9 17.9#



#48

Methyl methacrylate

Concen: 17.349 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

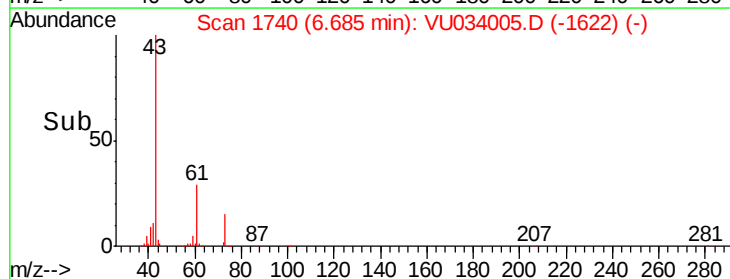
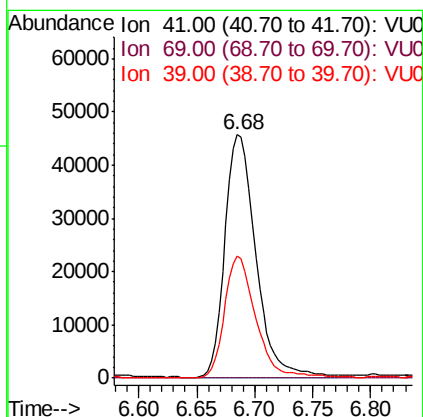
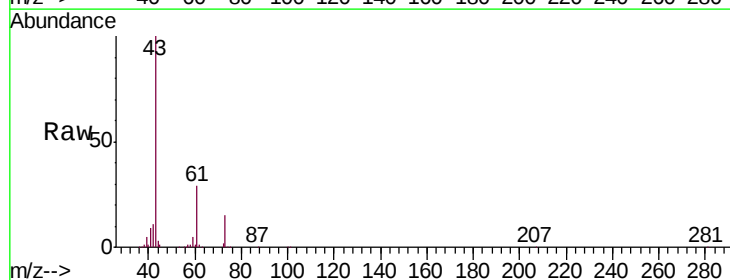
Tgt Ion: 41 Resp: 84945

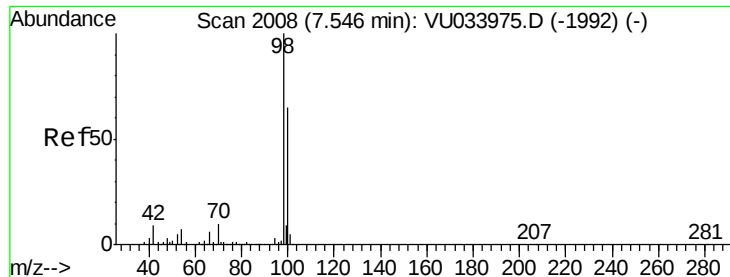
Ion Ratio Lower Upper

41 100

69 0.0 76.3 114.5#

39 50.7 41.1 61.7

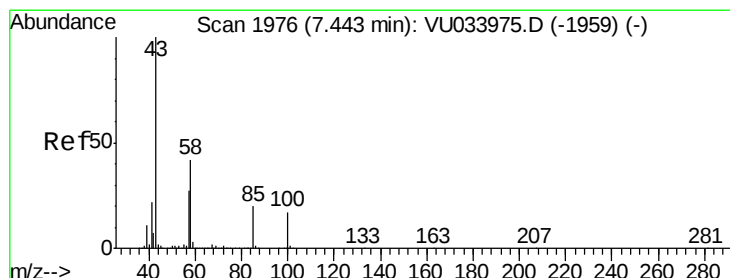
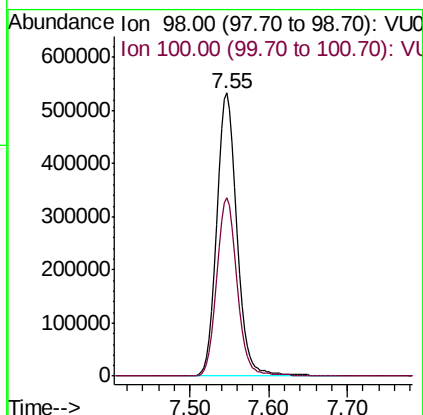
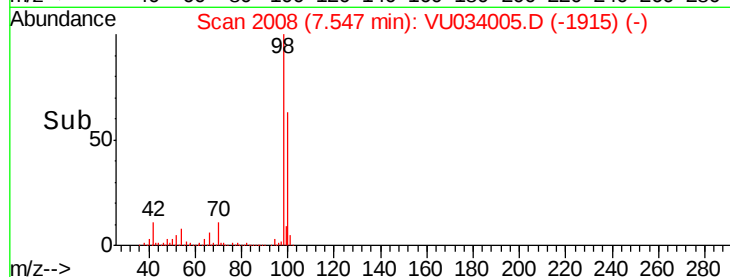
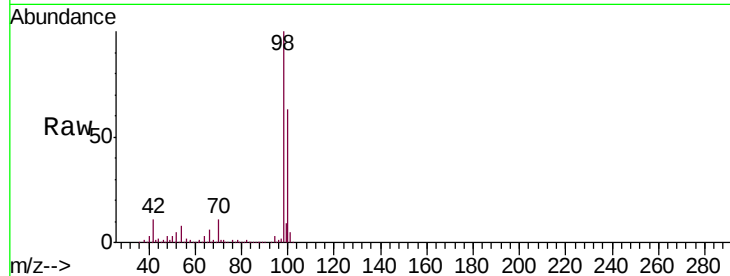




#50
Toluene-d8
Concen: 51.966 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034005.D
Acq: 28 Aug 2019 05:27

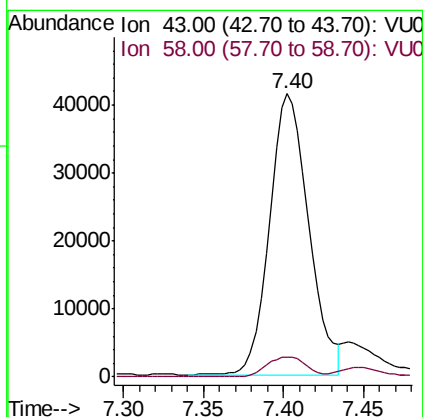
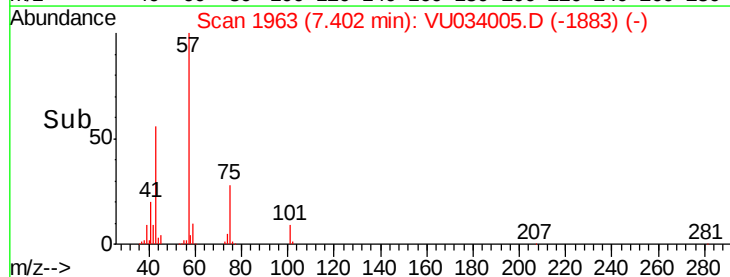
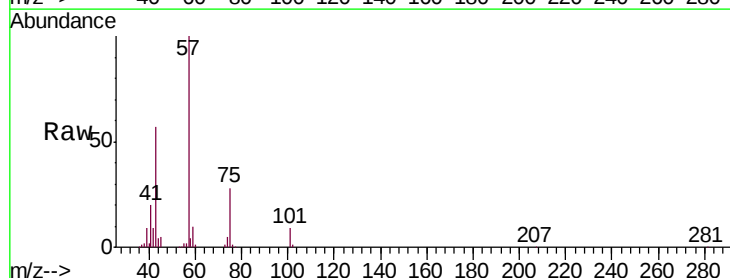
Instrument :
MSVOA_U
ClientSampleId :
T2-S-D-(0)

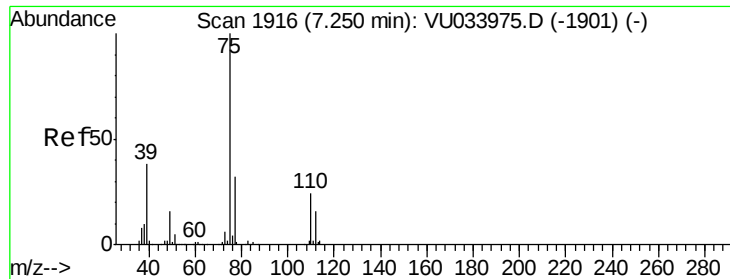
Tgt Ion: 98 Resp: 941984
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 9.914 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034005.D
Acq: 28 Aug 2019 05:27

Tgt Ion: 43 Resp: 70396
Ion Ratio Lower Upper
43 100
58 7.3 33.6 50.4#





#54

cis-1,3-Dichloropropene

Concen: 4.182 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

T2-S-D-(0)

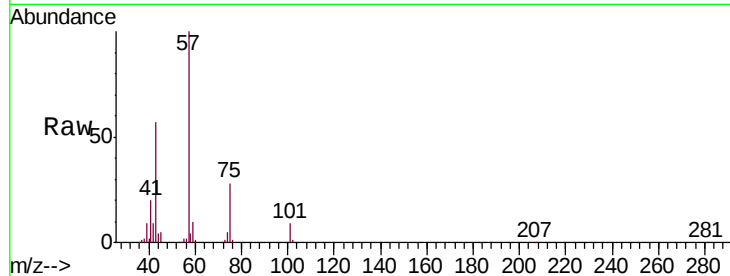
Tgt Ion: 75 Resp: 34495

Ion Ratio Lower Upper

75 100

77 0.6 25.6 38.4#

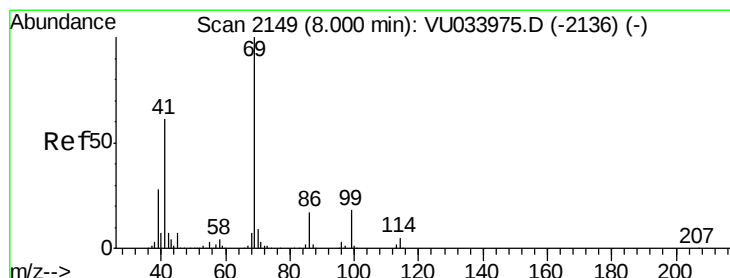
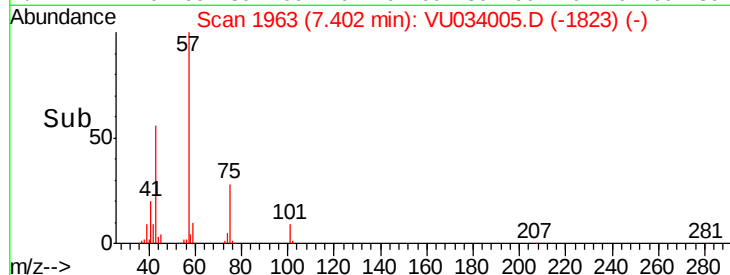
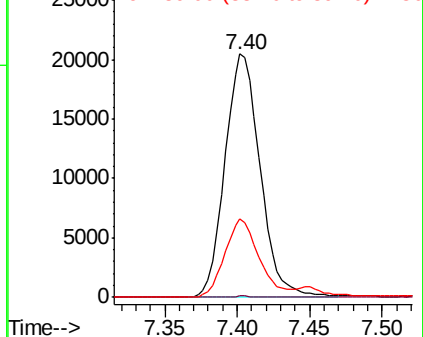
39 32.1 30.7 46.1



Abundance Ion 74.90 (74.60 to 75.60): VU033975.D (-1901) (-)

Ion 76.90 (76.60 to 77.60): VU033975.D (-1901) (-)

Ion 39.00 (38.70 to 39.70): VU033975.D (-1901) (-)



#56

Ethyl methacrylate

Concen: 2.525 ug/l

RT: 7.93 min Scan# 2128

Delta R.T. -0.07 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

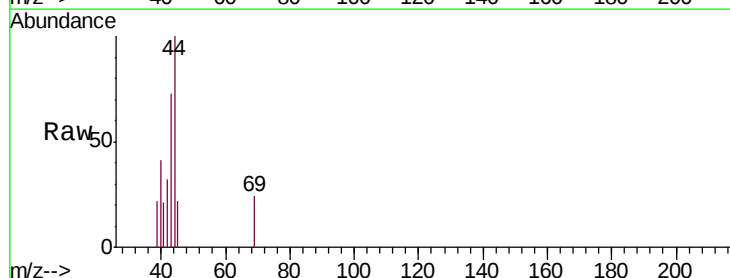
Tgt Ion: 69 Resp: 91

Ion Ratio Lower Upper

69 100

41 0.0 48.6 72.8#

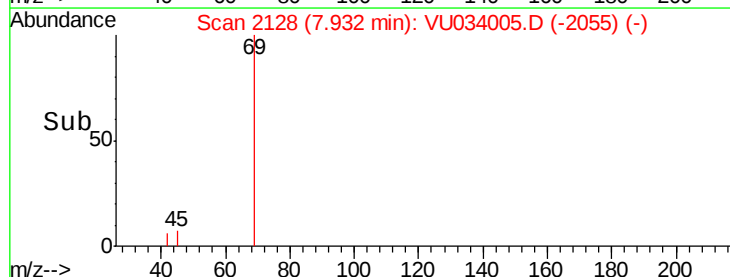
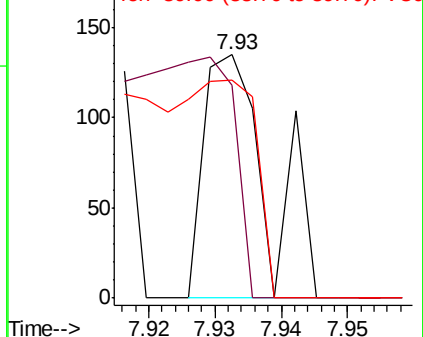
39 0.0 22.4 33.6#

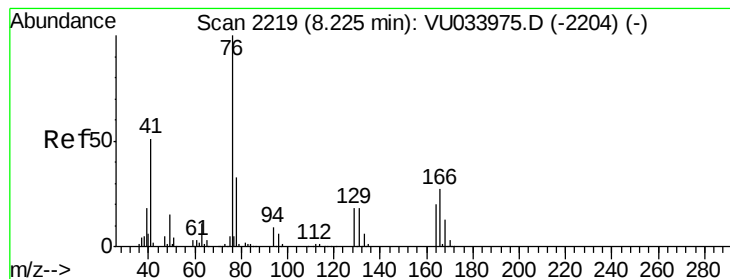


Abundance Ion 69.00 (68.70 to 69.70): VU033975.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU033975.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU033975.D (-2136) (-)





#57

1,3-Dichloropropane

Concen: 0.378 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.17 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

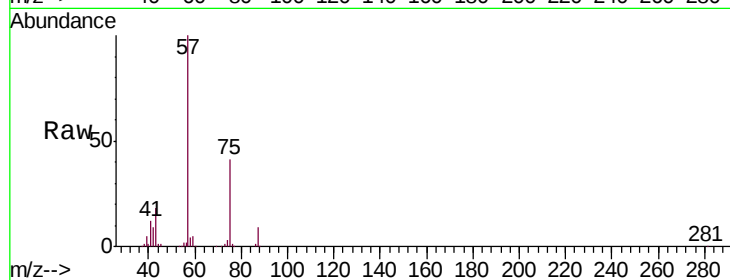
T2-S-D(0)

Tgt Ion: 76 Resp: 3266

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VU033975.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU033975.D (-2204) (-)

8.40

2000

1500

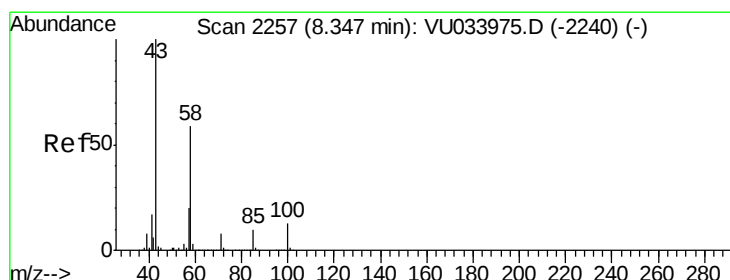
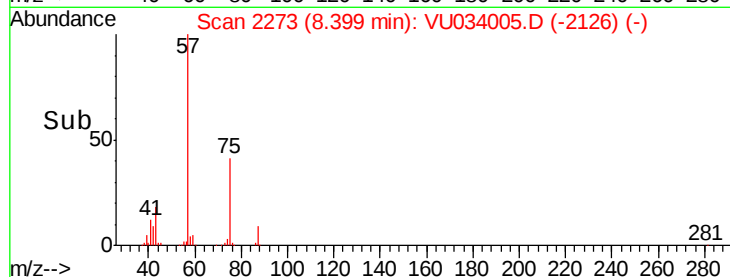
1000

500

0

8.35 8.40 8.45

Time-->



#59

2-Hexanone

Concen: 8.151 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034005.D

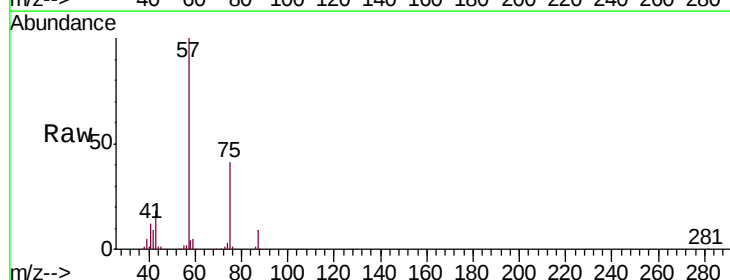
Acq: 28 Aug 2019 05:27

Tgt Ion: 43 Resp: 44487

Ion Ratio Lower Upper

43 100

58 23.2 29.5 88.6#



Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-2240) (-)

Ion 58.00 (57.70 to 58.70): VU033975.D (-2240) (-)

8.40

30000

25000

20000

15000

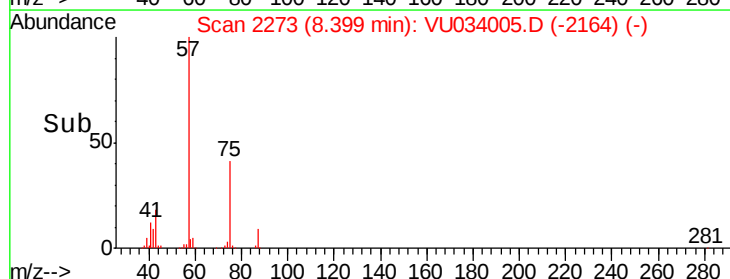
10000

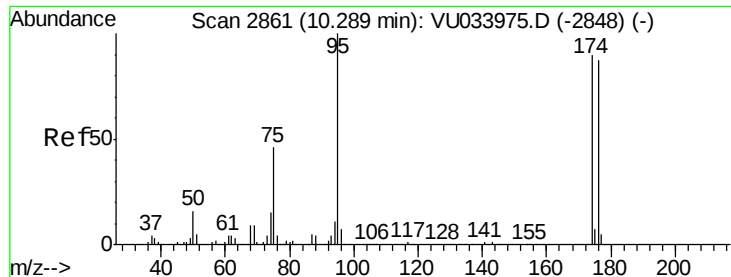
5000

0

8.35 8.40 8.45 8.50

Time-->





#62

4-Bromofluorobenzene

Concen: 44.215 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

T2-S-D-(0)

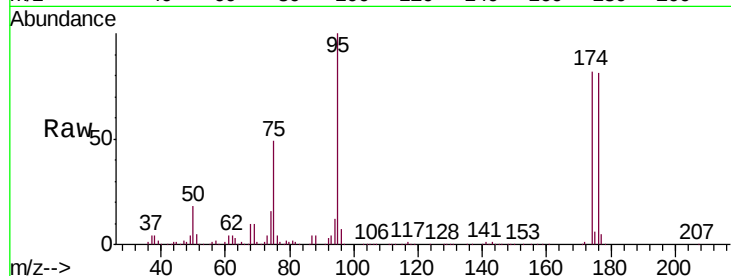
Tgt Ion: 95 Resp: 307447

Ion Ratio Lower Upper

95 100

174 83.3 0.0 183.8

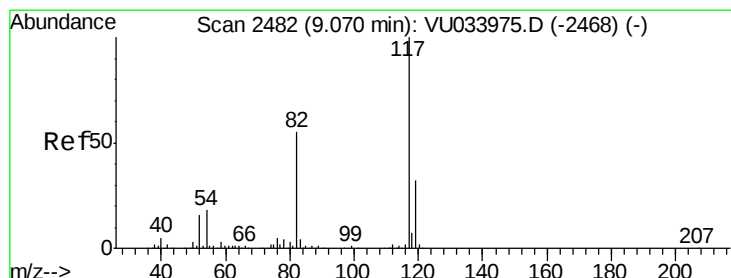
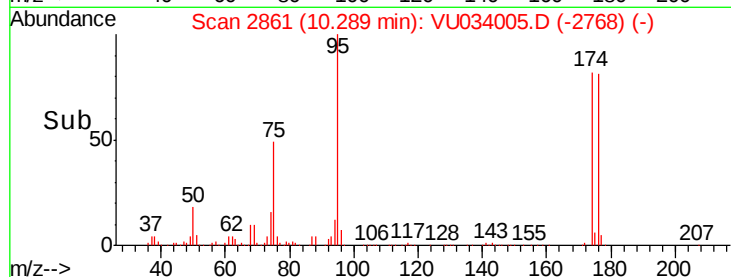
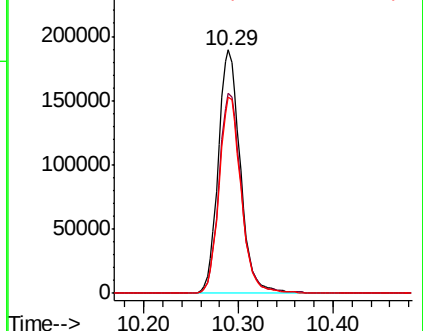
176 80.5 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VU033975.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU033975.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU033975.D (-2848) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034005.D

Acq: 28 Aug 2019 05:27

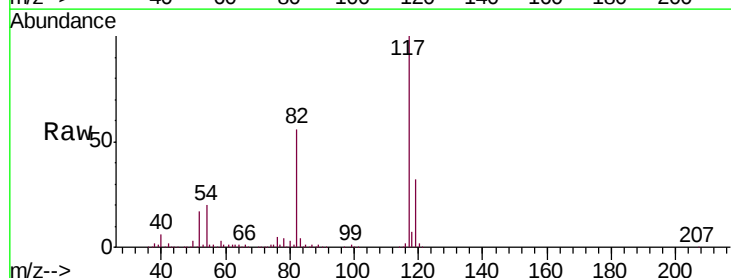
Tgt Ion: 117 Resp: 602743

Ion Ratio Lower Upper

117 100

82 55.6 43.8 65.8

119 32.3 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VU033975.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU033975.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU033975.D (-2468) (-)

