

Data File : VU034007.D
Acq On : 28 Aug 2019 06:14
Operator : JC/SP
Sample : K4525-22
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-A1-(0)

Quant Time: Aug 28 06:35:56 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	444035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	714727	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	676120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	289720	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	304306	61.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.38%	
35) Dibromofluoromethane	4.86	113	240563	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	7.55	98	943997	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
62) 4-Bromofluorobenzene	10.29	95	306975	45.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.32%	

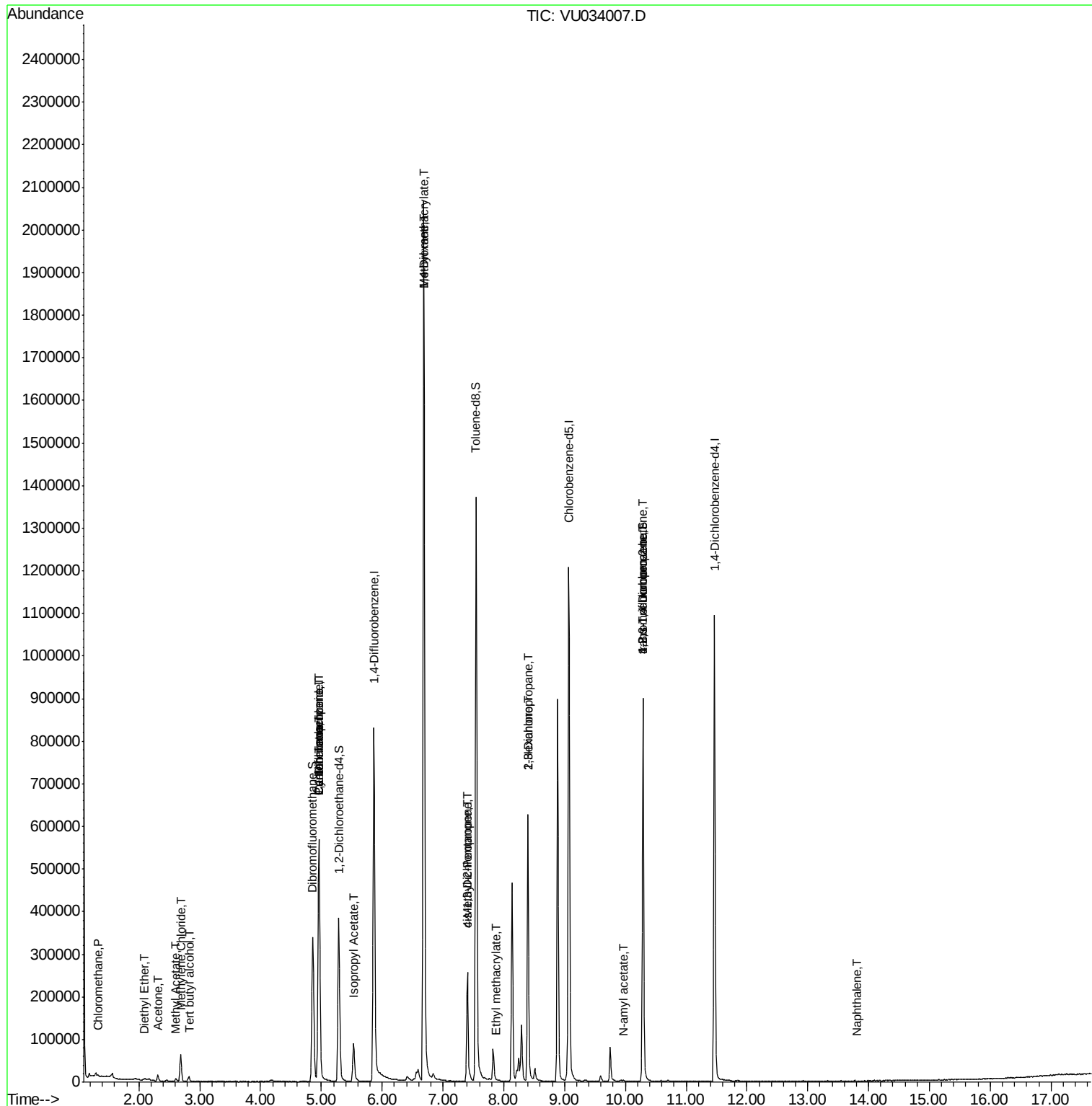
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	3070	1.535	ug/l	90
8) Diethyl Ether	2.09	74	622	0.280	ug/l #	1
11) Tert butyl alcohol	2.82	59	6871	5.378	ug/l #	85
16) Acetone	2.31	43	14546	6.160	ug/l	97
18) Methyl Acetate	2.61	43	8944	1.538	ug/l	91
20) Methylene Chloride	2.69	84	26527	5.295	ug/l	89
31) Cyclohexane	4.96	56	9057	1.245	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34735	5.306	ug/l #	48
38) Carbon Tetrachloride	4.96	117	42222	6.329	ug/l #	15
43) Isopropyl Acetate	5.53	43	104100	10.340	ug/l	96
48) Methyl methacrylate	6.68	41	182109	38.046	ug/l #	36
49) 1,4-Dioxane	6.68	88	205	1.561	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	89530	12.898	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	44334	5.498	ug/l #	66
56) Ethyl methacrylate	7.89	69	254	2.544	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	6912	0.818	ug/l #	43
59) 2-Hexanone	8.40	43	87266	16.356	ug/l #	51
74) N-amyl acetate	9.97	43	1605	0.229	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	153373	26.569	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	153373	76.099	ug/l #	100
95) Naphthalene	13.80	128	47	2.085	ug/l #	70

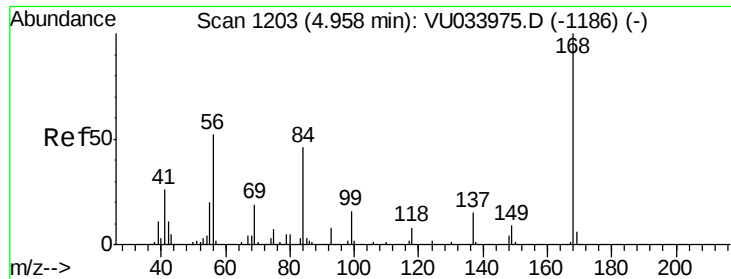
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034007.D

Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

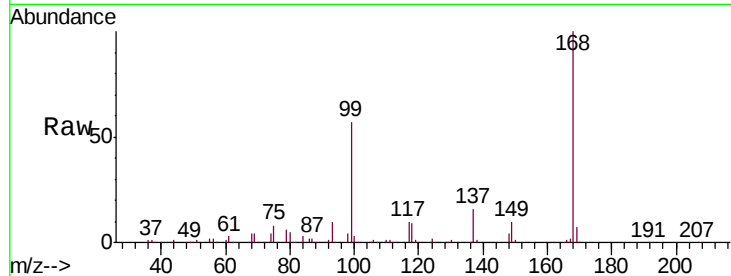
T9-12-13-A1-(0)

Tgt Ion:168 Resp: 444035

Ion Ratio Lower Upper

168 100

99 56.9 39.4 59.2



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

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

4.96

200000

150000

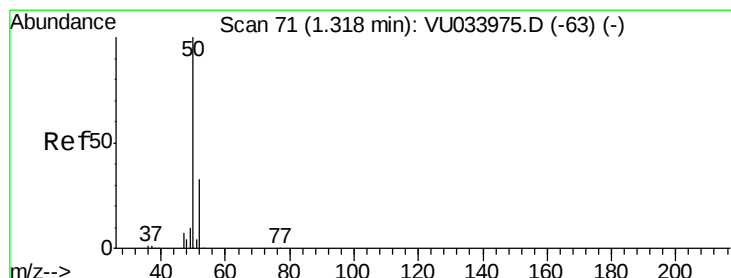
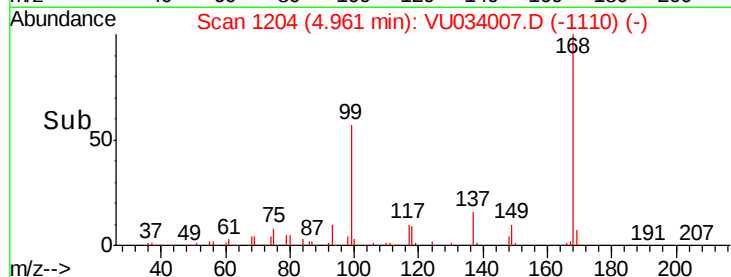
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 1.535 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU034007.D

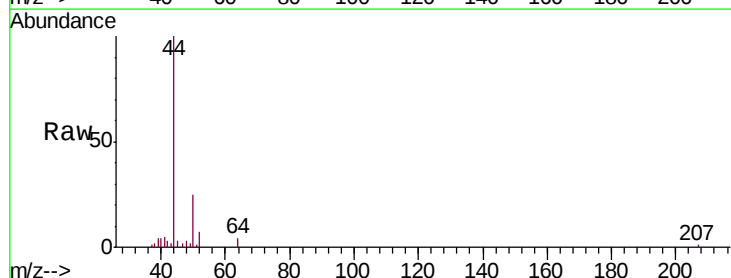
Acq: 28 Aug 2019 06:14

Tgt Ion: 50 Resp: 3070

Ion Ratio Lower Upper

50 100

52 26.9 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

2500

2000

1500

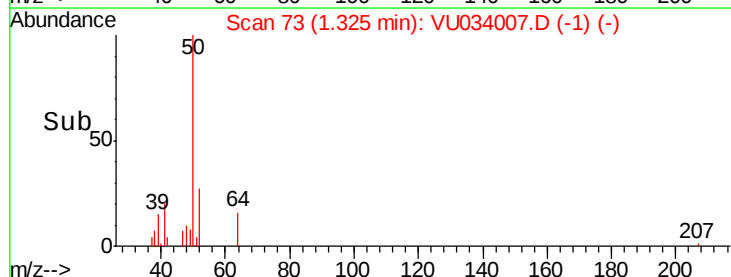
1000

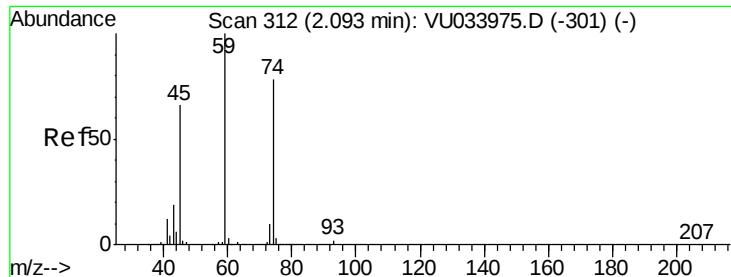
500

0

1.30 1.35

Time-->

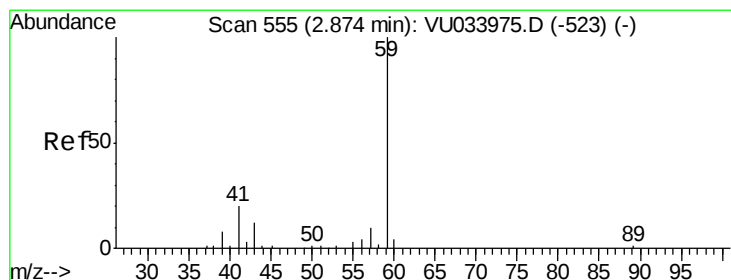
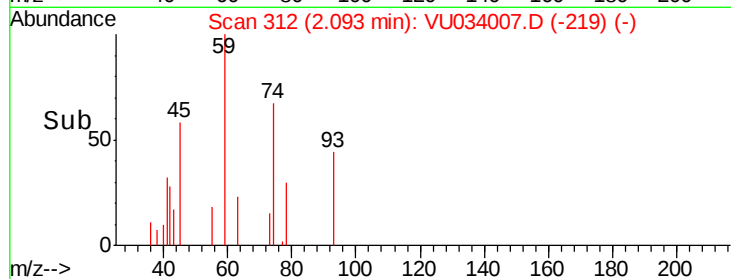
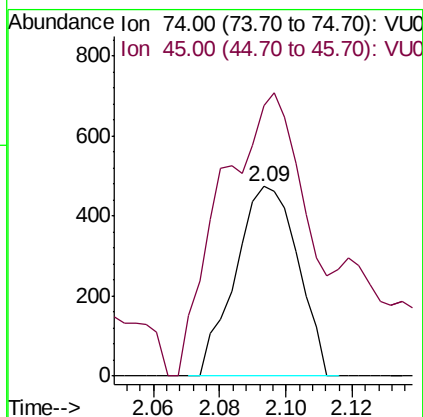
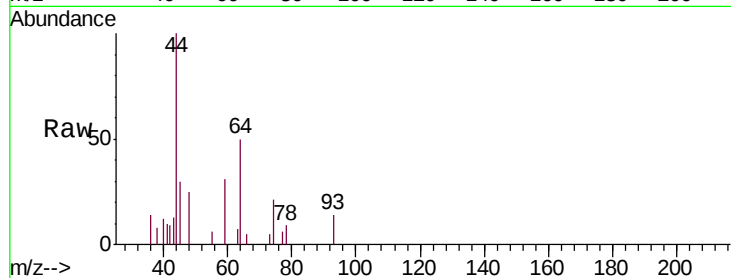




#8
Diethyl Ether
Concen: 0.280 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.00 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

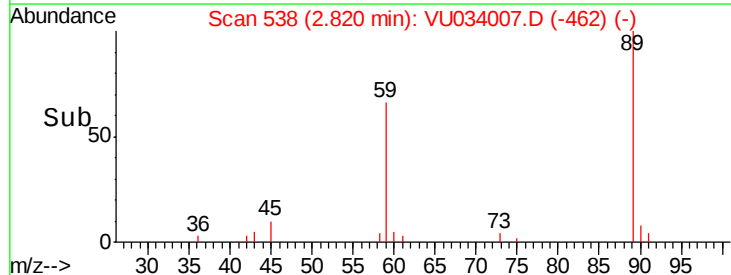
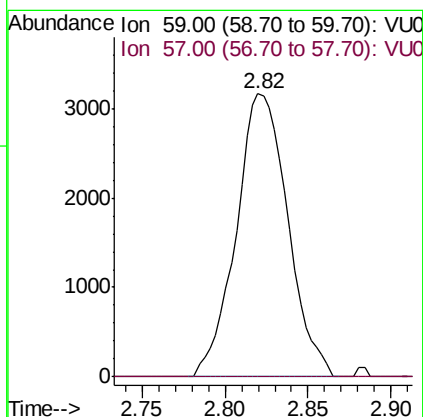
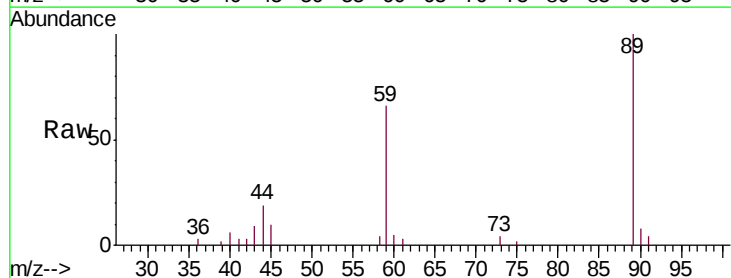
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-A1-(0)

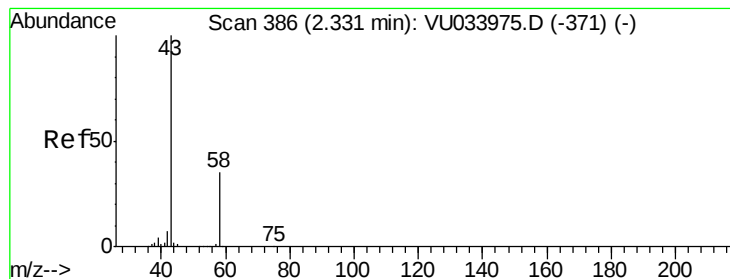
Tgt Ion: 74 Resp: 622
Ion Ratio Lower Upper
74 100
45 199.0 42.8 128.4#



#11
Tert butyl alcohol
Concen: 5.378 ug/l
RT: 2.82 min Scan# 538
Delta R.T. -0.05 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Tgt Ion: 59 Resp: 6871
Ion Ratio Lower Upper
59 100
57 0.0 3.9 5.9#





#16

Acetone

Concen: 6.160 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

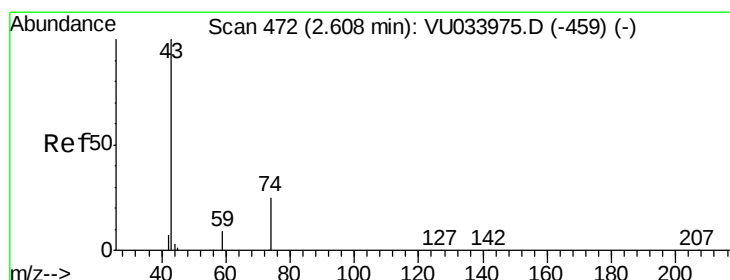
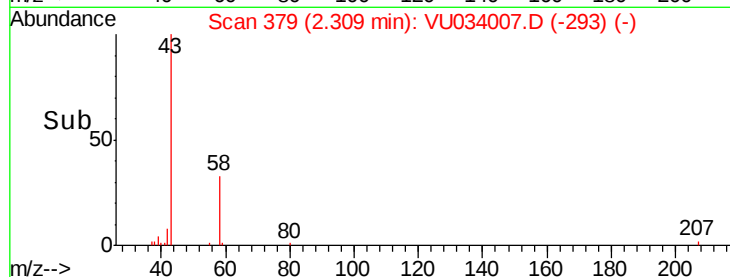
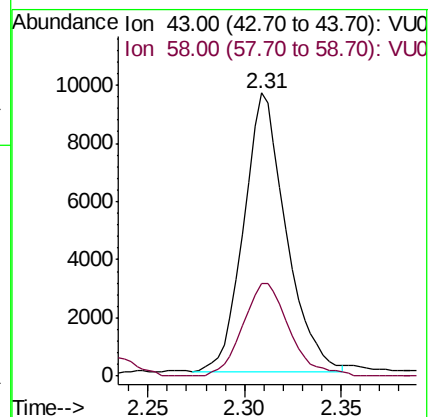
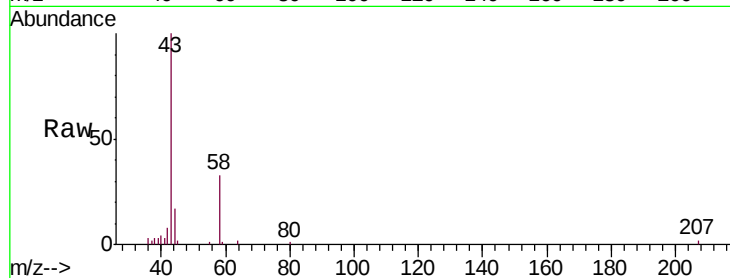
T9-12-13-A1-(0)

Tgt Ion: 43 Resp: 14546

Ion Ratio Lower Upper

43 100

58 33.1 28.0 42.0



#18

Methyl Acetate

Concen: 1.538 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU034007.D

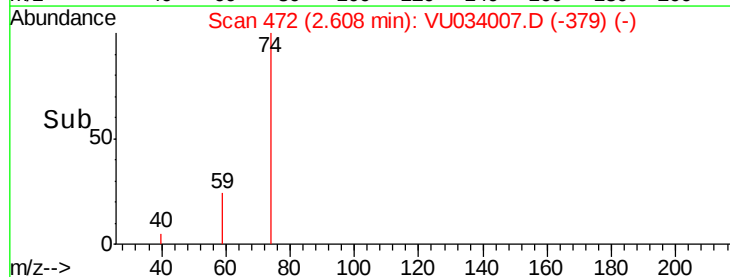
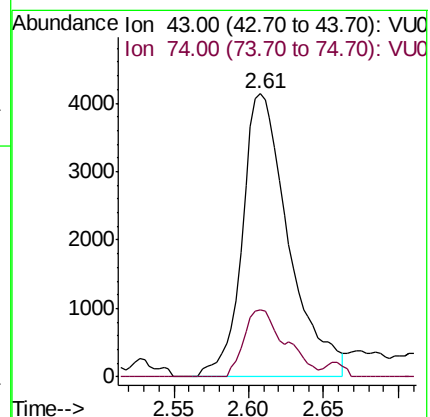
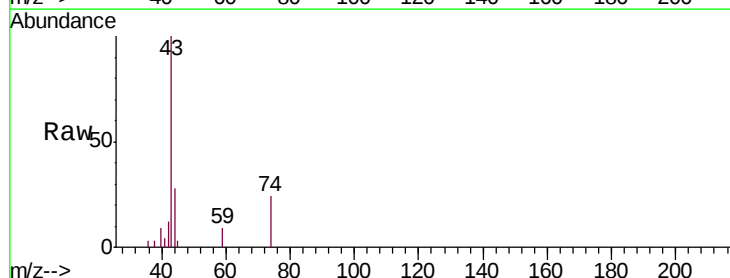
Acq: 28 Aug 2019 06:14

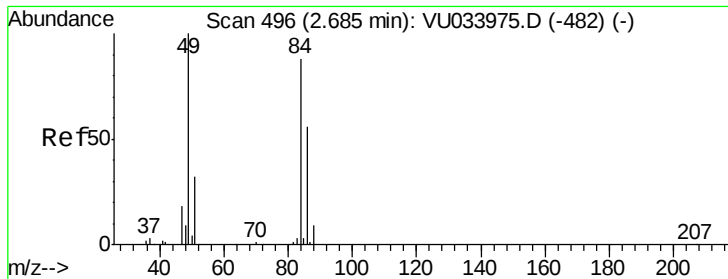
Tgt Ion: 43 Resp: 8944

Ion Ratio Lower Upper

43 100

74 21.3 20.5 30.7



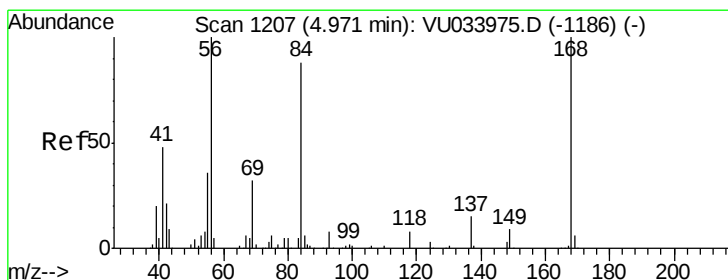
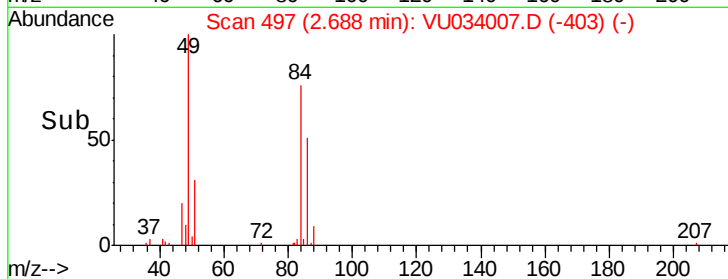
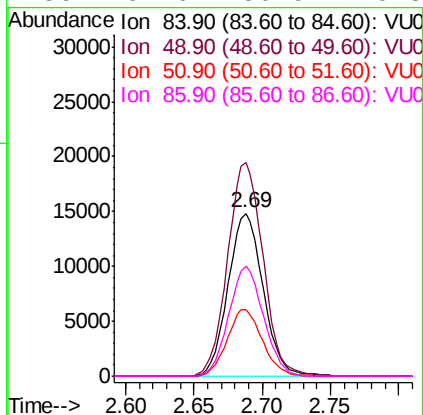
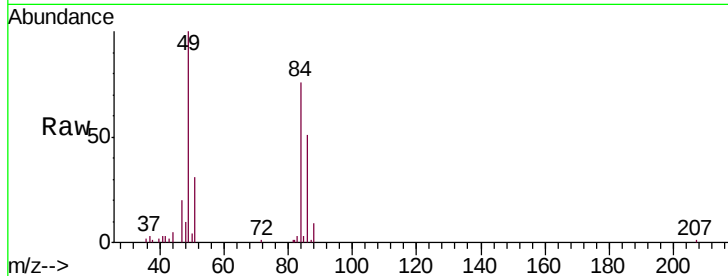


#20
Methylene Chloride
Concen: 5.295 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-A1-(0)

Tgt Ion: 84 Resp: 26527

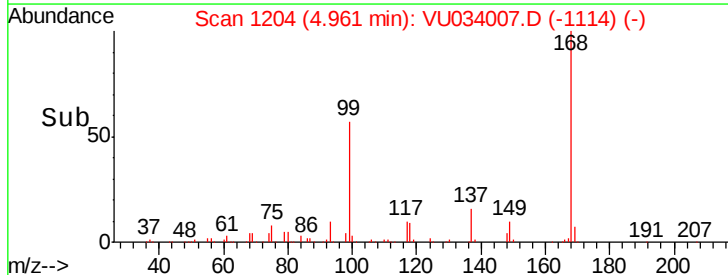
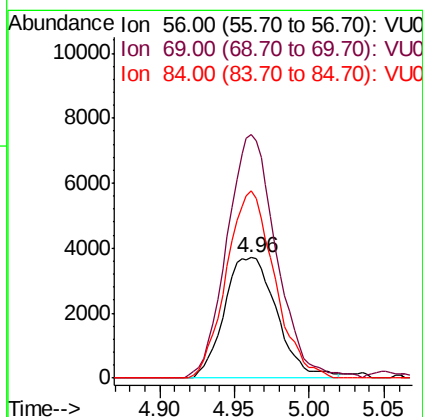
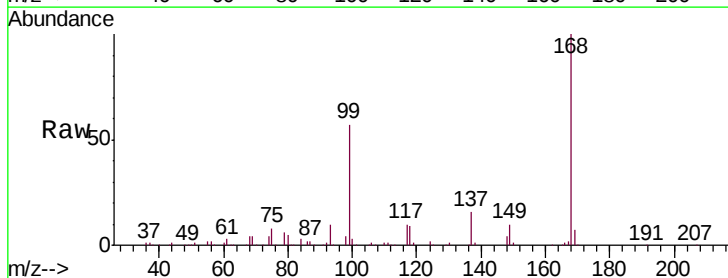
Ion	Ratio	Lower	Upper
84	100		
49	131.4	91.3	136.9
51	40.8	28.9	43.3
86	67.6	50.9	76.3

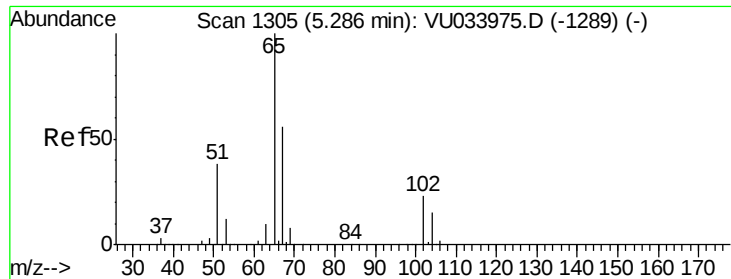


#31
Cyclohexane
Concen: 1.245 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Tgt Ion: 56 Resp: 9057

Ion	Ratio	Lower	Upper
56	100		
69	199.5	25.9	38.9#
84	155.2	70.4	105.6#

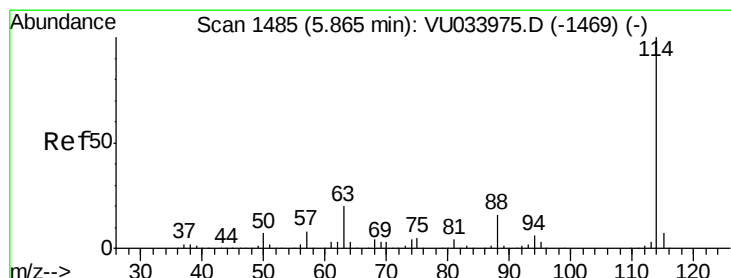
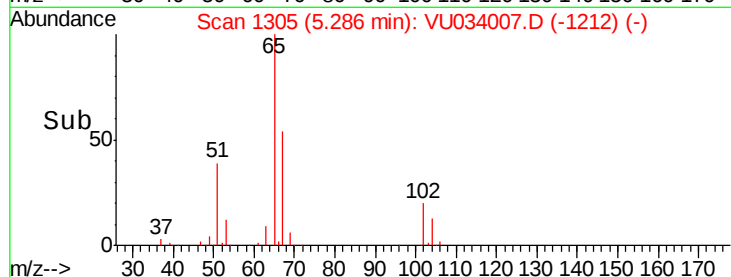
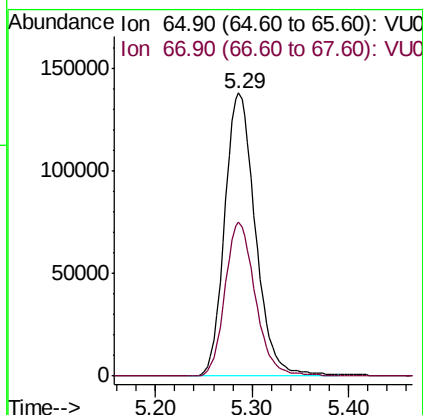
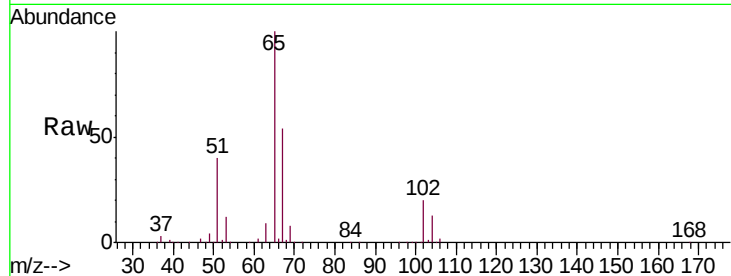




#33
 1,2-Dichloroethane-d4
 Concen: 61.687 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034007.D
 Acq: 28 Aug 2019 06:14

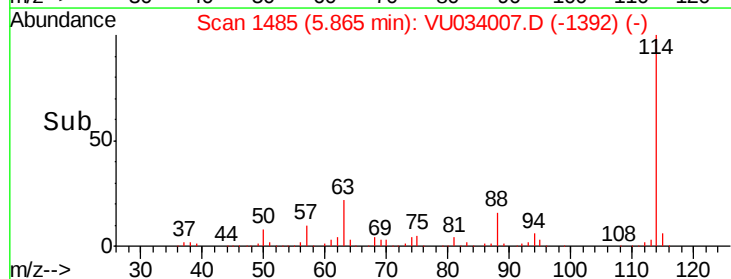
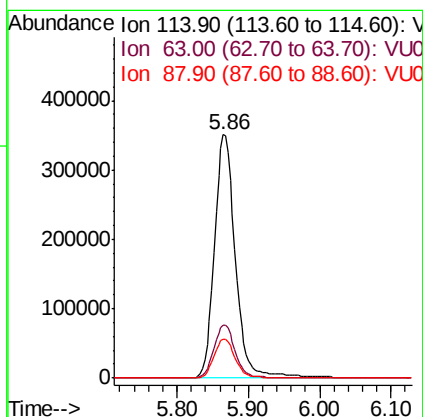
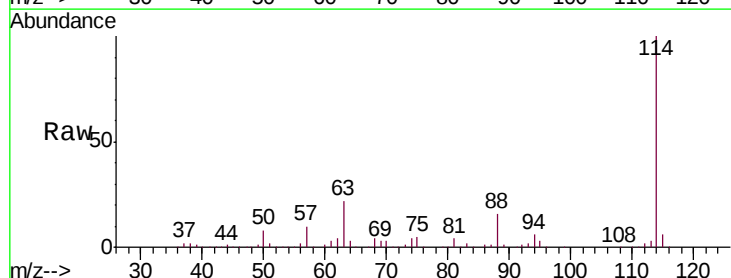
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-A1-(0)

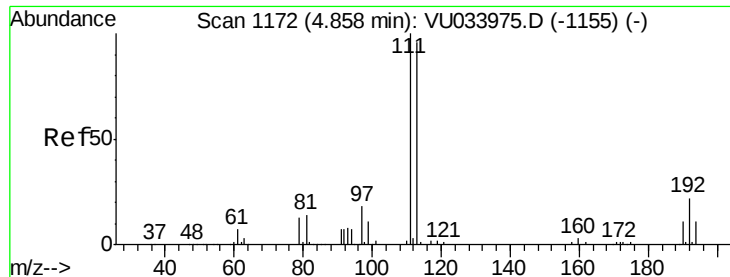
Tgt Ion: 65 Resp: 304306
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034007.D
 Acq: 28 Aug 2019 06:14

Tgt Ion: 114 Resp: 714727
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 39.0
 88 16.2 0.0 31.2

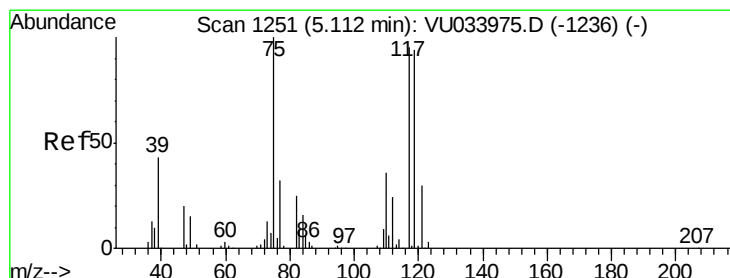
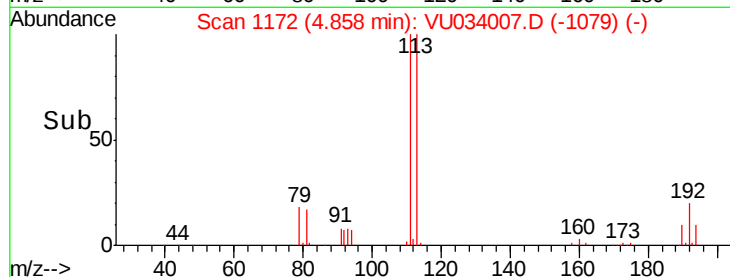
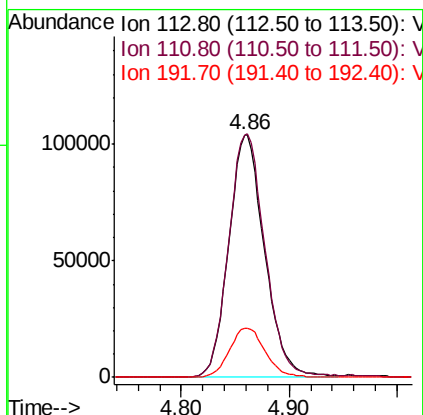
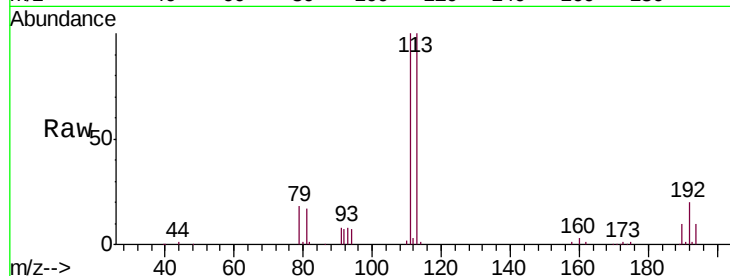




#35
 Dibromofluoromethane
 Concen: 50.072 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034007.D
 Acq: 28 Aug 2019 06:14

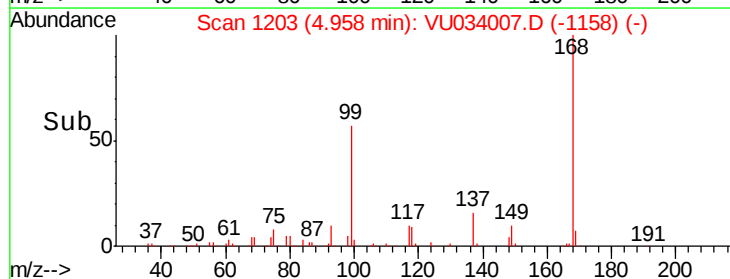
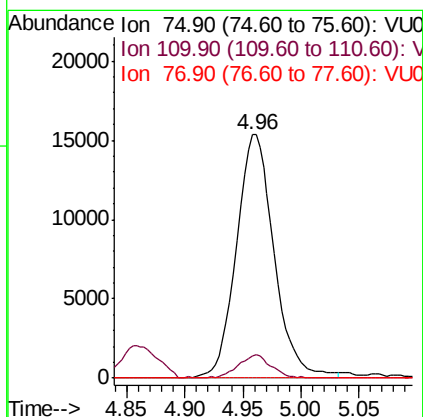
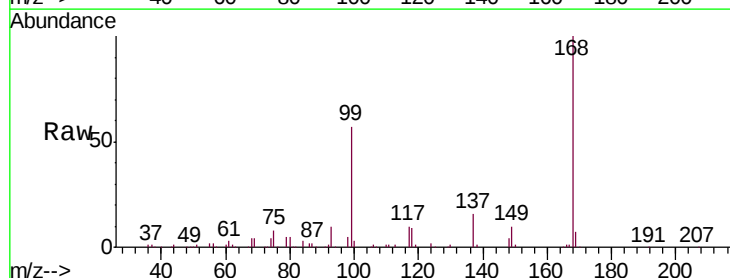
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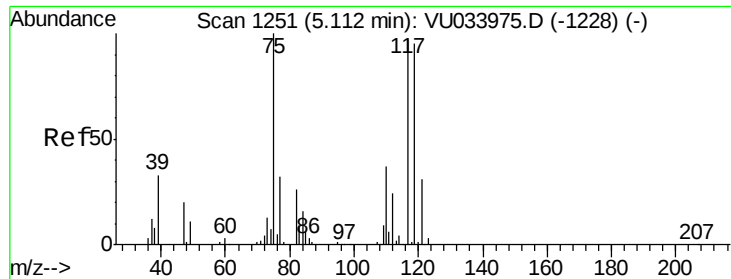
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.7	122.5
192	20.4	18.6	27.8



#36
 1,1-Dichloropropene
 Concen: 5.306 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034007.D
 Acq: 28 Aug 2019 06:14

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

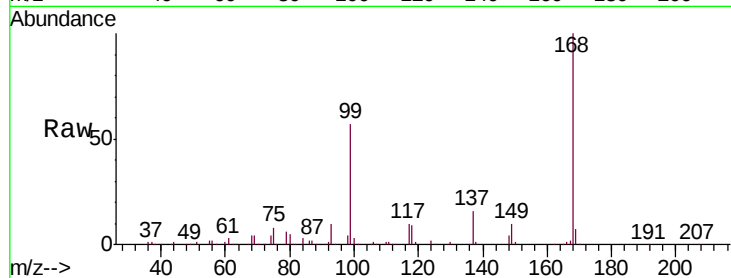




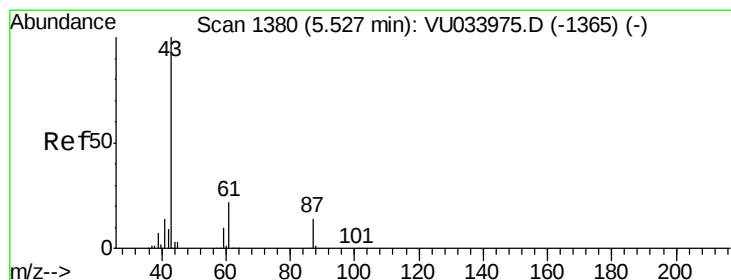
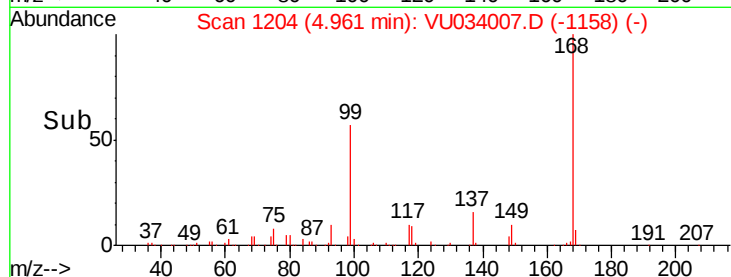
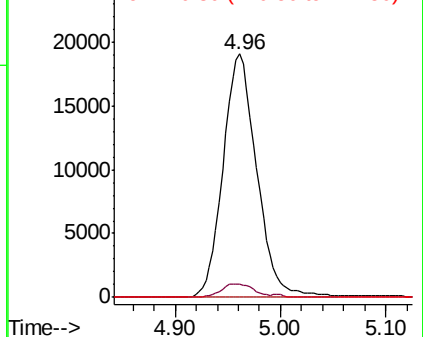
#38
Carbon Tetrachloride
Concen: 6.329 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-A1-(0)

Tgt Ion: 117 Resp: 42222
Ion Ratio Lower Upper
117 100
119 5.3 78.4 117.6#
121 0.0 25.4 38.2#

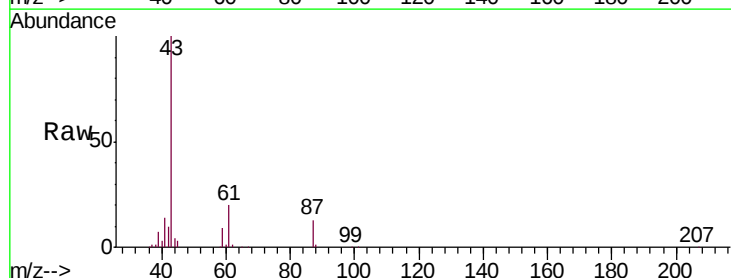


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

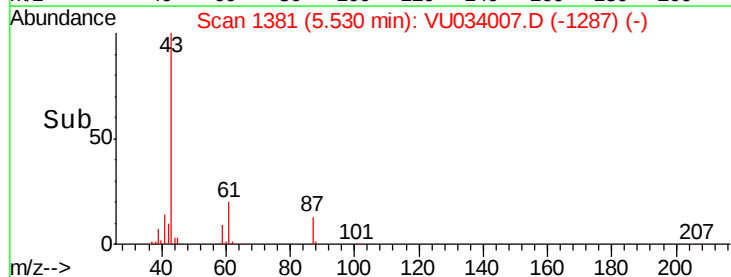
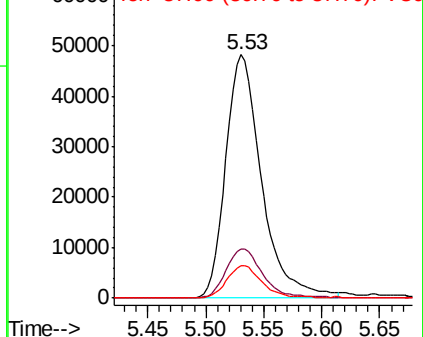


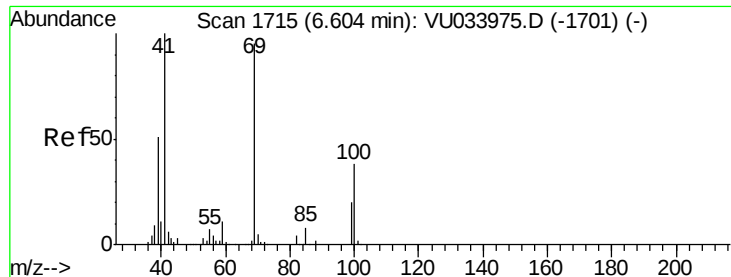
#43
Isopropyl Acetate
Concen: 10.340 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Tgt Ion: 43 Resp: 104100
Ion Ratio Lower Upper
43 100
61 20.8 17.8 26.8
87 12.7 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0

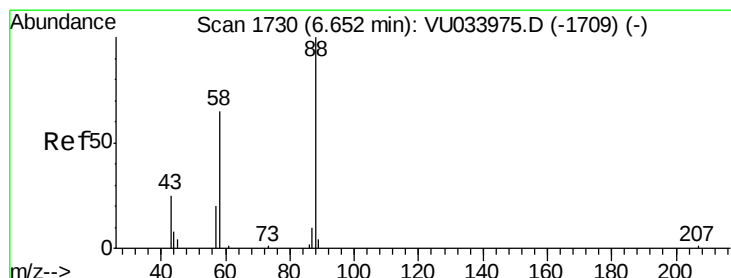
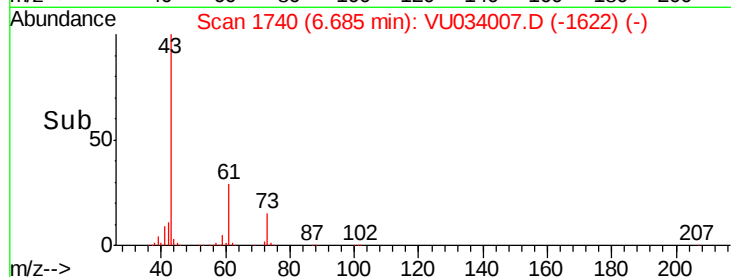
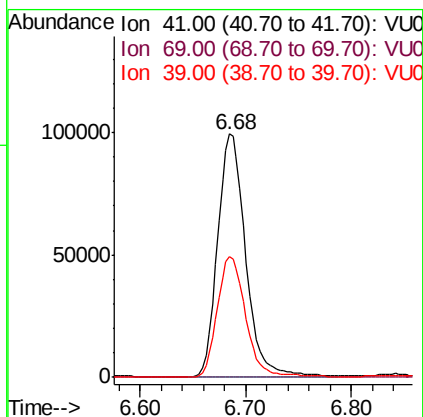
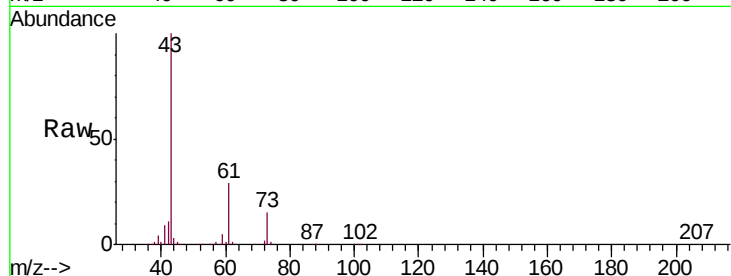




#48
Methyl methacrylate
Concen: 38.046 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

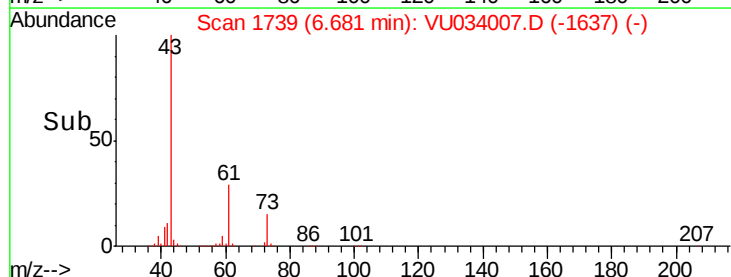
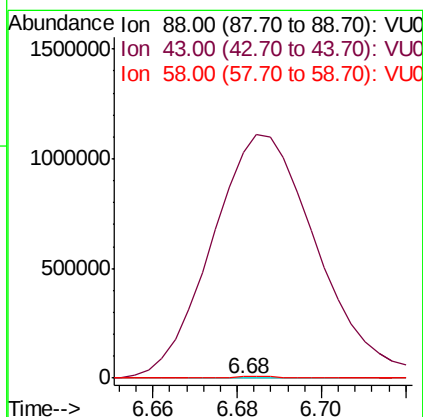
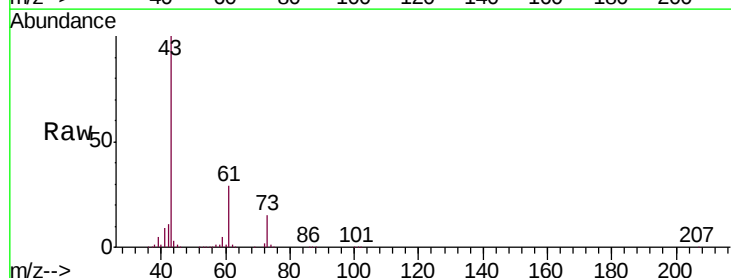
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-A1-(0)

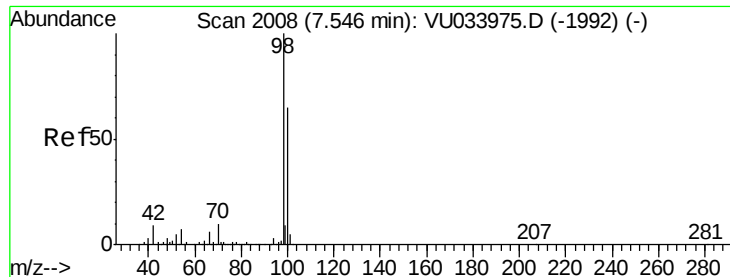
Tgt Ion: 41 Resp: 182109
Ion Ratio Lower Upper
41 100
69 0.1 76.3 114.5#
39 51.2 41.1 61.7



#49
1,4-Dioxane
Concen: 1.561 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.03 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Tgt Ion: 88 Resp: 205
Ion Ratio Lower Upper
88 100
43 970235.1 0.0 0.0#
58 4885.9 56.6 85.0#

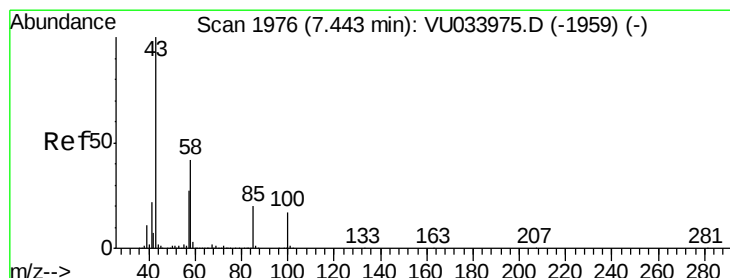
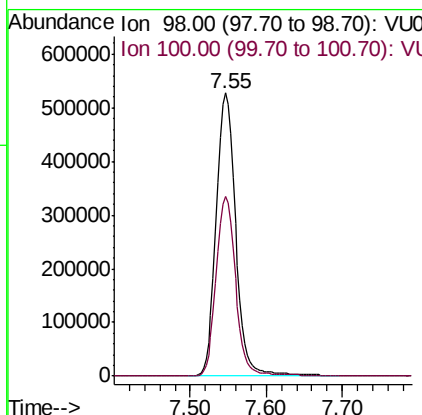
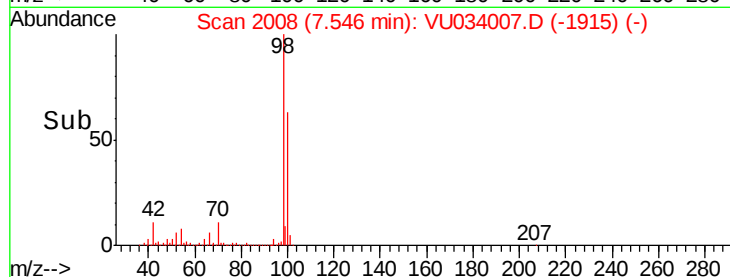
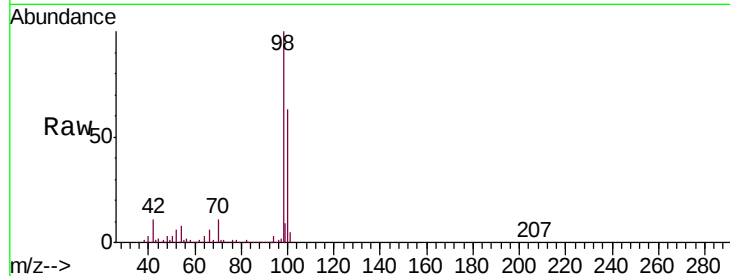




#50
Toluene-d8
Concen: 53.271 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

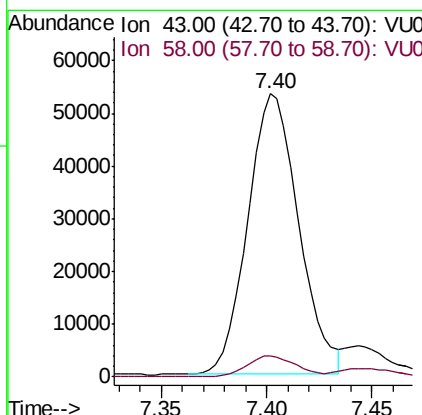
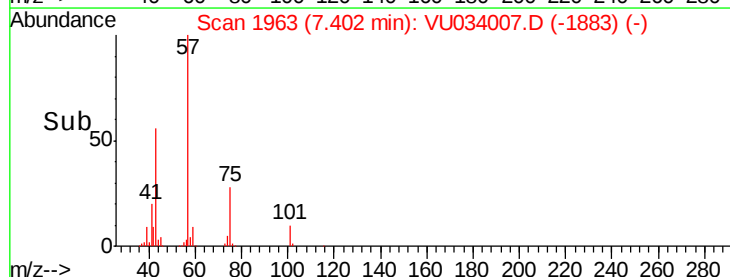
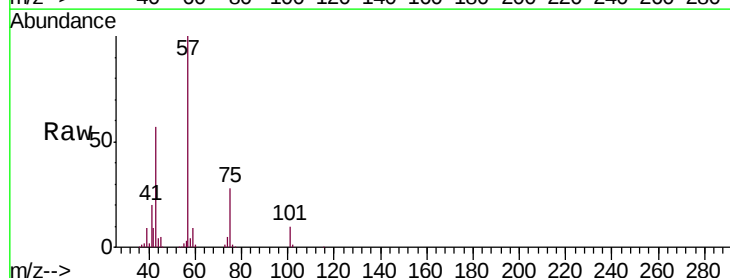
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-A1-(0)

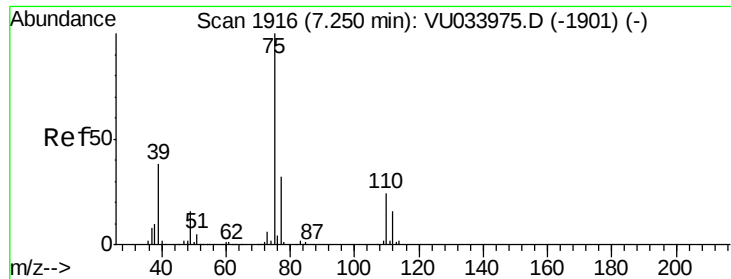
Tgt Ion: 98 Resp: 943997
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 12.898 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034007.D
Acq: 28 Aug 2019 06:14

Tgt Ion: 43 Resp: 89530
Ion Ratio Lower Upper
43 100
58 7.4 33.6 50.4#



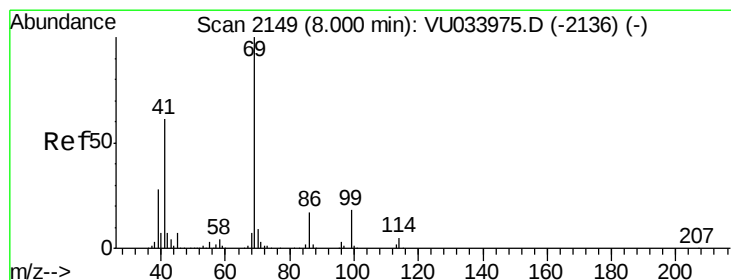
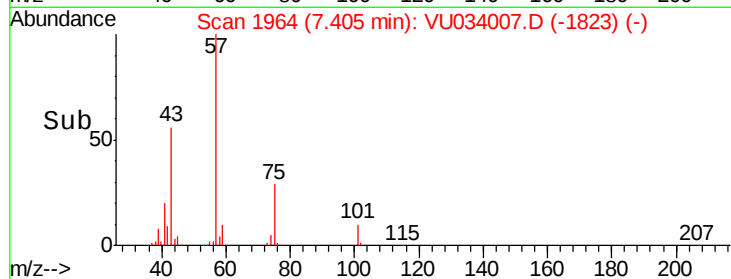
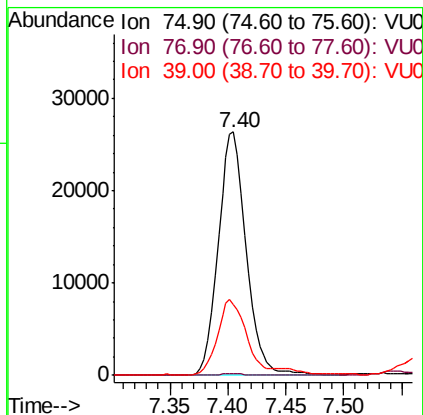
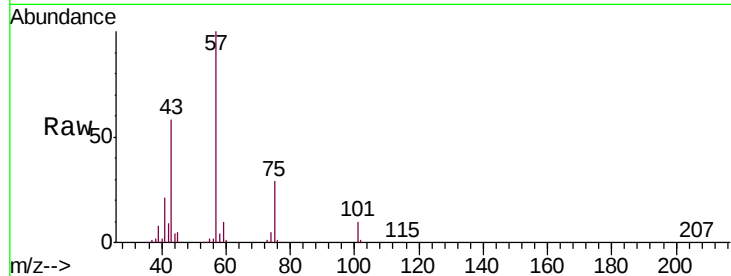


#54

cis-1,3-Dichloropropene
 Concen: 5.498 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.15 min
 Lab File: VU034007.D
 Acq: 28 Aug 2019 06:14

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-A1-(0)

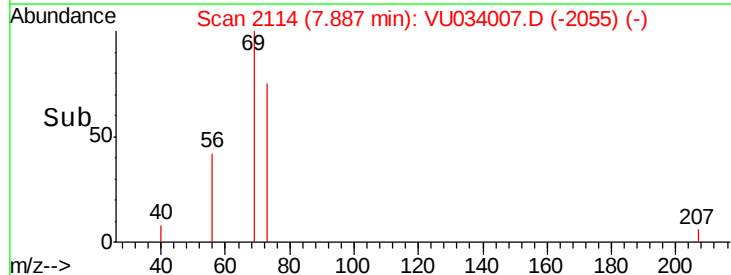
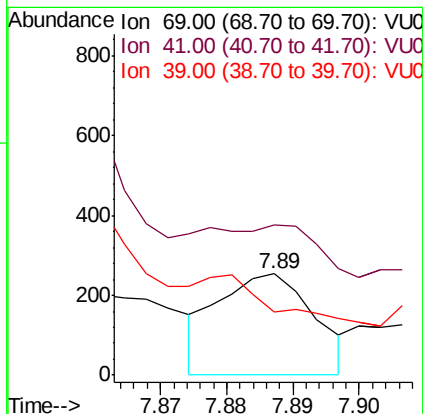
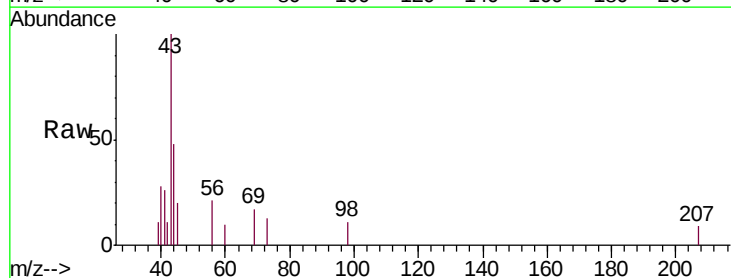
Tgt Ion: 75 Resp: 44334
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.6 38.4#
 39 29.3 30.7 46.1#

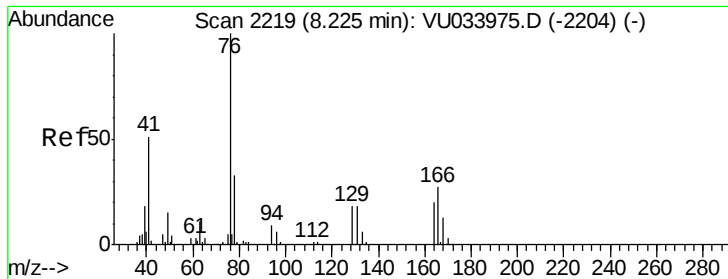


#56

Ethyl methacrylate
 Concen: 2.544 ug/l
 RT: 7.89 min Scan# 2114
 Delta R.T. -0.11 min
 Lab File: VU034007.D
 Acq: 28 Aug 2019 06:14

Tgt Ion: 69 Resp: 254
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.6 72.8#
 39 0.0 22.4 33.6#





#57

1,3-Dichloropropane

Concen: 0.818 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.17 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

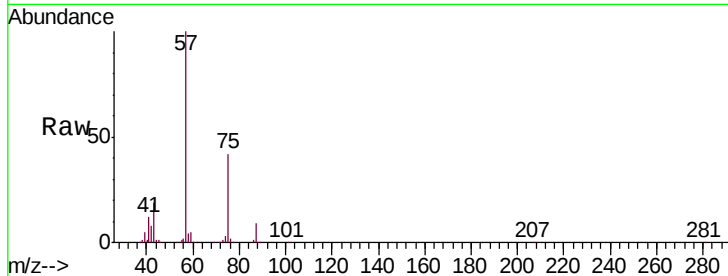
T9-12-13-A1-(0)

Tgt Ion: 76 Resp: 6912

Ion Ratio Lower Upper

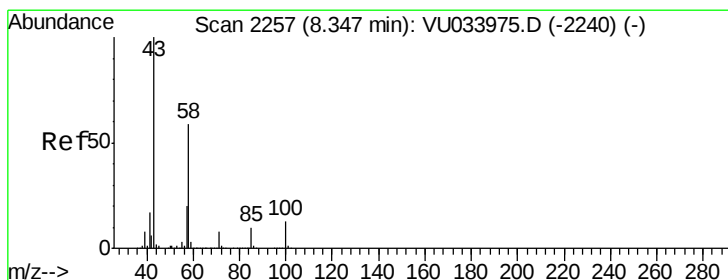
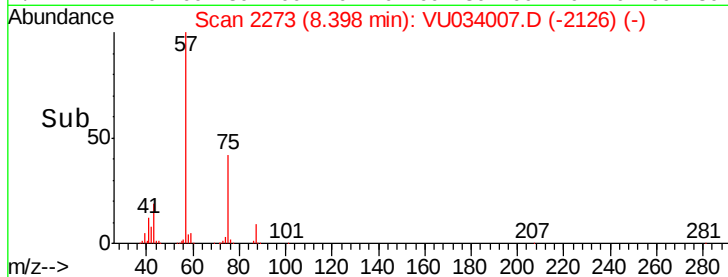
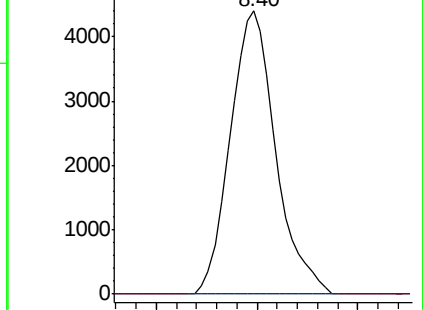
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VU034007.D (-2126) (-)

Ion 77.90 (77.60 to 78.60): VU034007.D (-2126) (-)



#59

2-Hexanone

Concen: 16.356 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034007.D

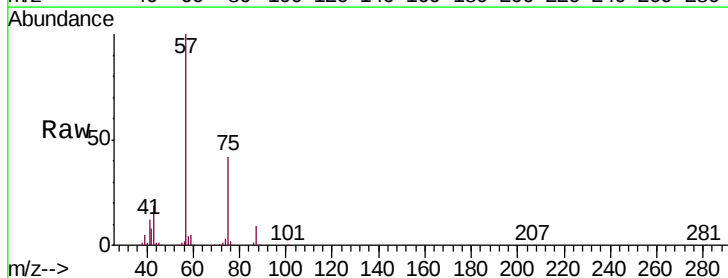
Acq: 28 Aug 2019 06:14

Tgt Ion: 43 Resp: 87266

Ion Ratio Lower Upper

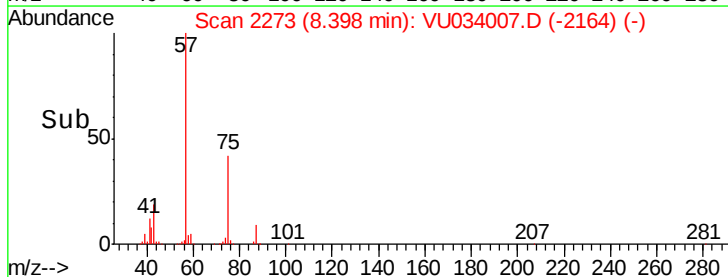
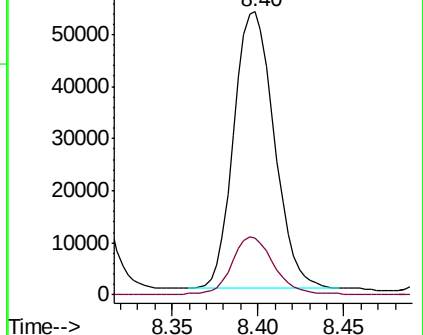
43 100

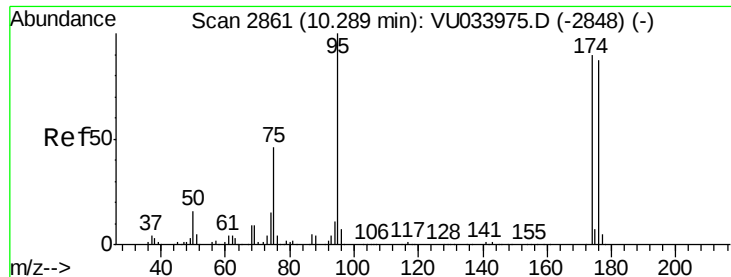
58 22.4 29.5 88.6#



Abundance Ion 43.00 (42.70 to 43.70): VU034007.D (-2164) (-)

Ion 58.00 (57.70 to 58.70): VU034007.D (-2164) (-)





#62

4-Bromofluorobenzene

Concen: 45.159 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-A1-(0)

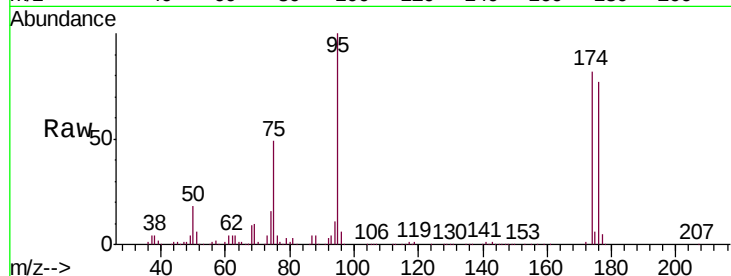
Tgt Ion: 95 Resp: 306975

Ion Ratio Lower Upper

95 100

174 82.8 0.0 183.8

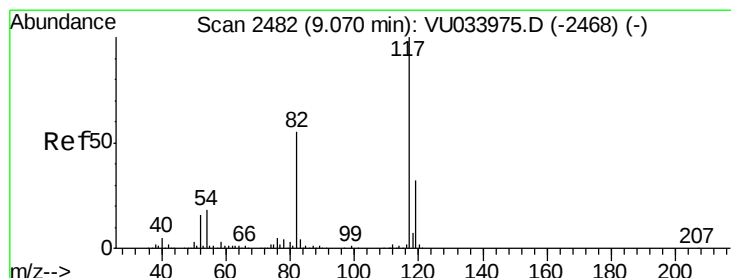
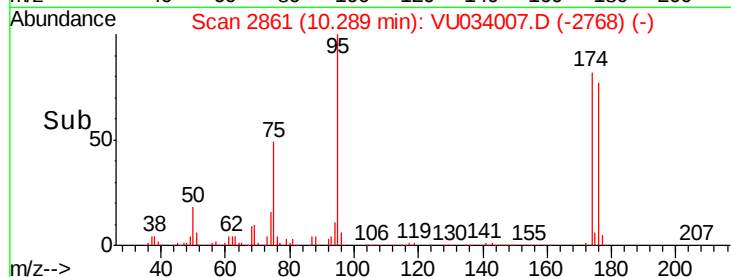
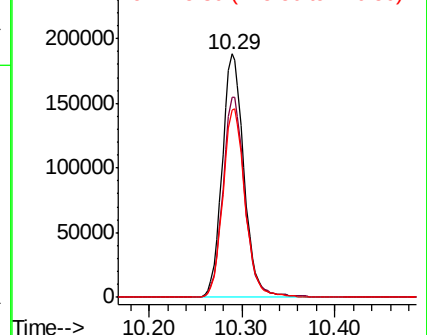
176 79.0 0.0 176.4



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: VU034007.D

Acq: 28 Aug 2019 06:14

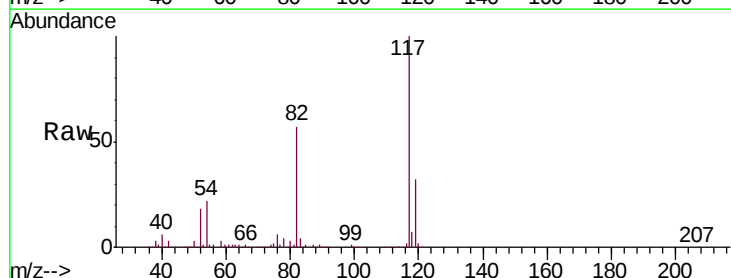
Tgt Ion: 117 Resp: 676120

Ion Ratio Lower Upper

117 100

82 57.0 43.8 65.8

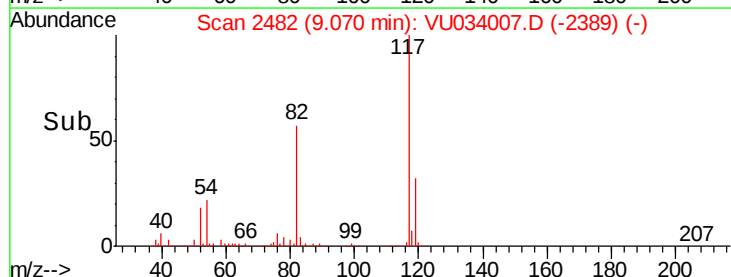
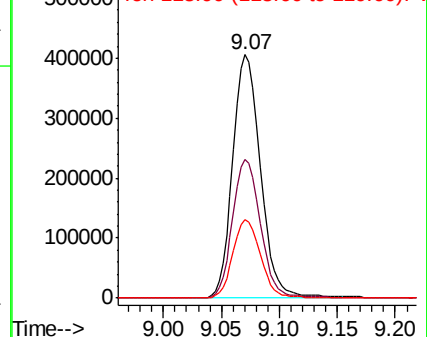
119 32.1 25.7 38.5

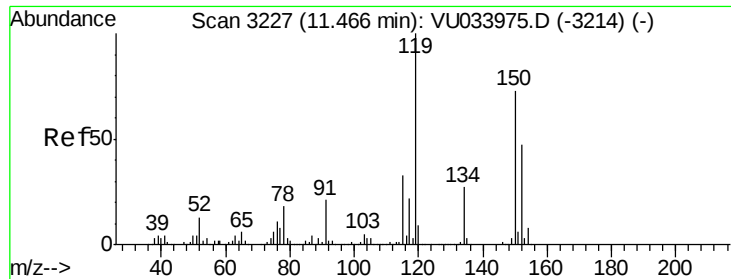


Abundance Ion 116.90 (116.60 to 117.60): VU033975.D (-2468) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-A1-(0)

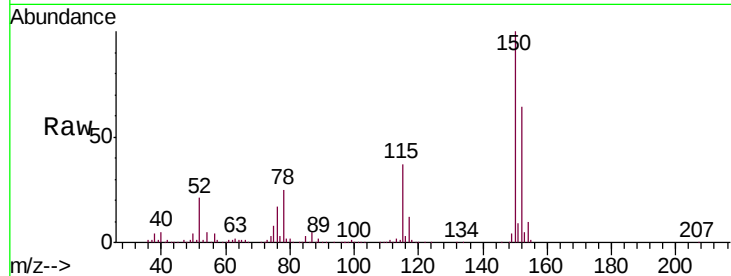
Tgt Ion:152 Resp: 289720

Ion Ratio Lower Upper

152 100

115 58.0 38.6 115.7

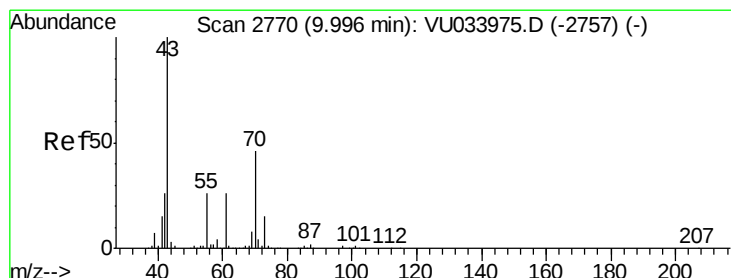
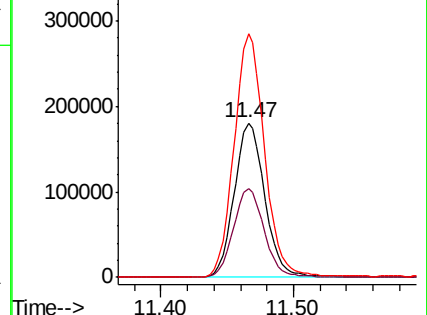
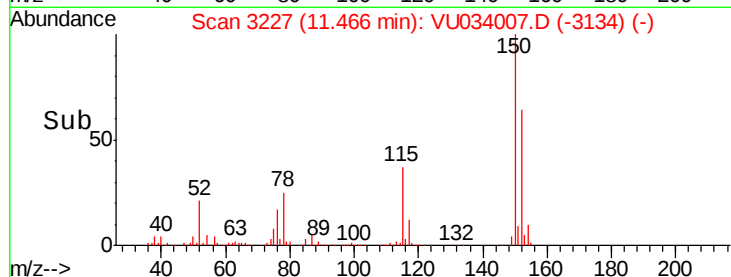
150 157.8 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.229 ug/l

RT: 9.97 min Scan# 2761

Delta R.T. -0.03 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

Tgt Ion: 43 Resp: 1605

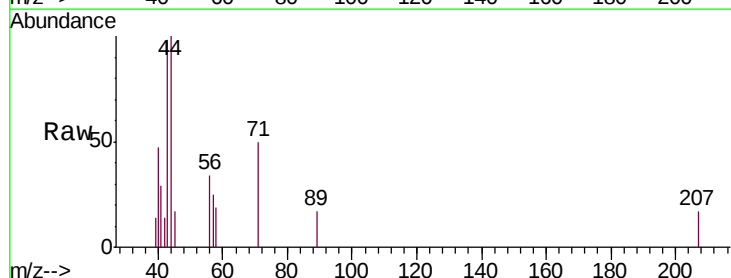
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.0 31.4#

61 0.0 20.9 31.3#

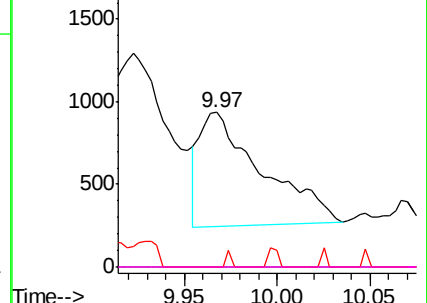
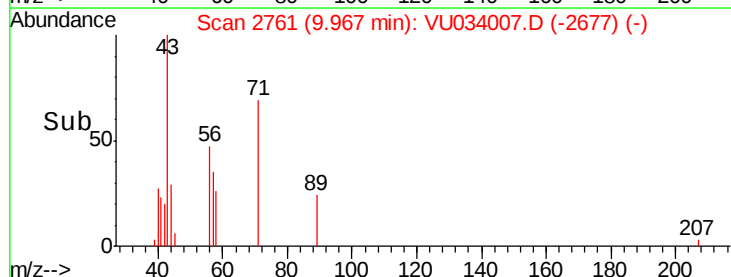


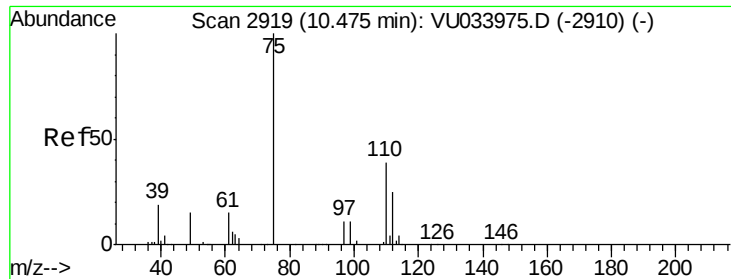
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 26.569 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

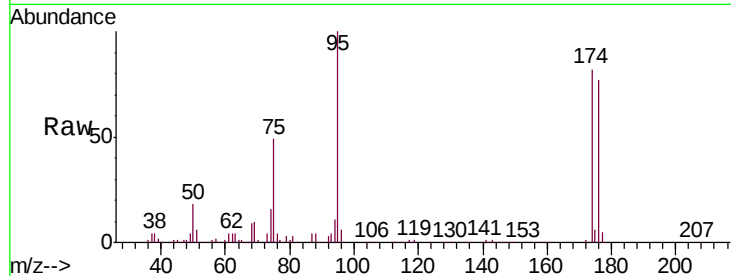
T9-12-13-A1-(0)

Tgt Ion: 75 Resp: 153373

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

10.29

80000

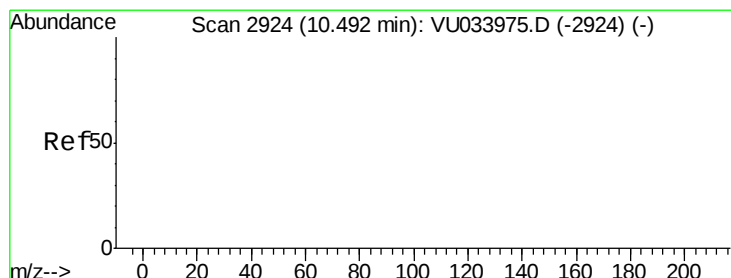
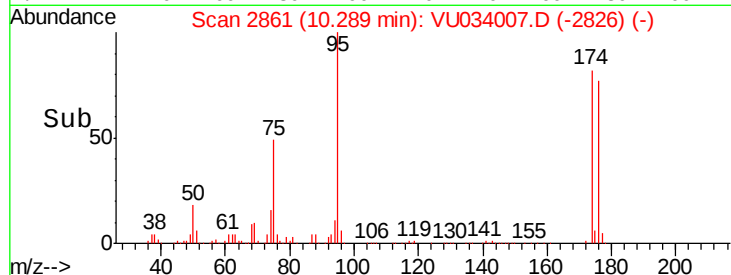
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.099 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034007.D

Acq: 28 Aug 2019 06:14

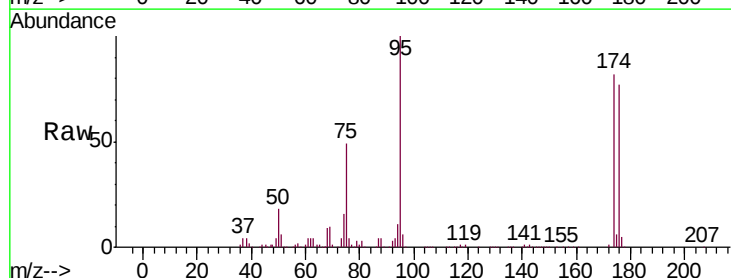
Tgt Ion: 75 Resp: 153373

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

10.29

120000

100000

80000

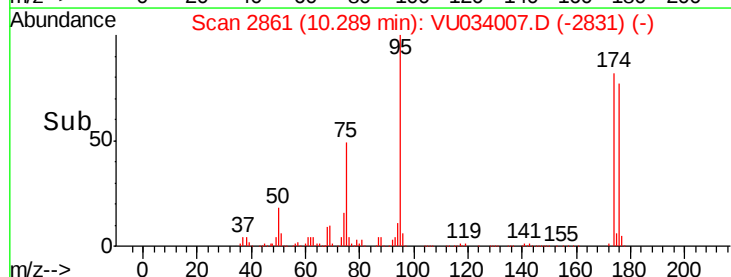
60000

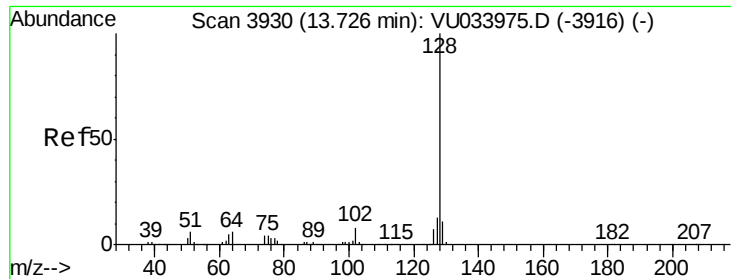
40000

20000

0

Time-->





#95

Napthalene

Concen: 2.085 ug/l

RT: 13.80 min Scan# 3953

Delta R.T. 0.07 min

Lab File: VU034007.D

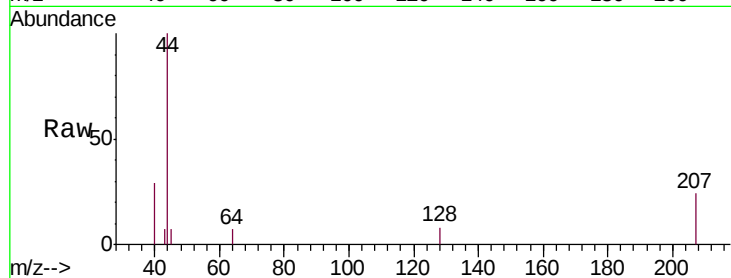
Acq: 28 Aug 2019 06:14

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-A1-(0)



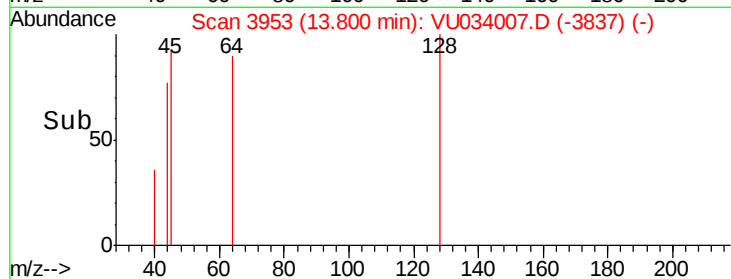
Tgt Ion:128 Resp: 47

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

