

Data File : VU034428.D
Acq On : 09 Sep 2019 13:13
Operator : JC/SP
Sample : K4602-22
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T12-G3-(0)

Quant Time: Sep 10 05:38:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	261461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	387168	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	415416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	222641	50.00	ug/l	0.00

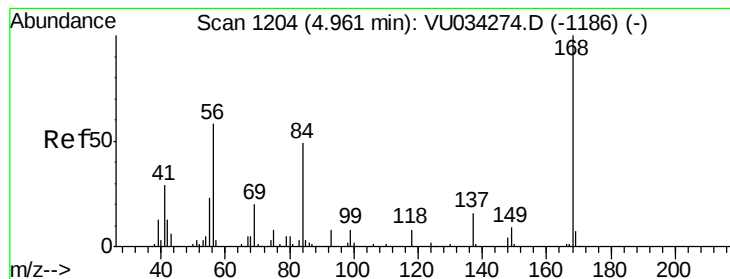
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	211310	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
35) Dibromofluoromethane	4.86	113	186314	51.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.44%	
50) Toluene-d8	7.54	98	678343	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
62) 4-Bromofluorobenzene	10.29	95	227701	43.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.14%	

Target Compounds					Qvalue	
5) Bromomethane	1.63	94	681	Below Cal		86
6) Chloroethane	1.69	64	74	Below Cal	#	43
10) Methyl Iodide	2.41	142	270	3.936	ug/l #	43
11) Tert butyl alcohol	2.83	59	7800	9.333	ug/l #	73
16) Acetone	2.31	43	13926	6.802	ug/l	99
18) Methyl Acetate	2.61	43	2994	0.601	ug/l #	85
20) Methylene Chloride	2.69	84	5911	1.374	ug/l	96
31) Cyclohexane	4.96	56	4437	0.958	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17014	4.052	ug/l #	48
38) Carbon Tetrachloride	4.96	117	22920	5.112	ug/l #	17
43) Isopropyl Acetate	5.53	43	52511	6.780	ug/l	99
48) Methyl methacrylate	6.68	41	79235	21.541	ug/l #	36
51) 4-Methyl-2-Pentanone	7.40	43	48456	9.039	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	27789	4.773	ug/l #	66
56) Ethyl methacrylate	7.93	69	99	3.092	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	4304	0.685	ug/l #	43
58) 2-Chloroethyl Vinyl ether	7.13	63	249	16.733	ug/l #	48
59) 2-Hexanone	8.40	43	53281	13.305	ug/l #	55
74) N-amyl acetate	9.93	43	1227	0.210	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	105394	21.687	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	105394	72.931	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	20	3.455	ug/l #	12
95) Naphthalene	13.77	128	239	3.981	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.03	180	77	2.653	ug/l #	32

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

Quant Time: Sep 10 05:38:20 2019
Quant Method : Z:\VQASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

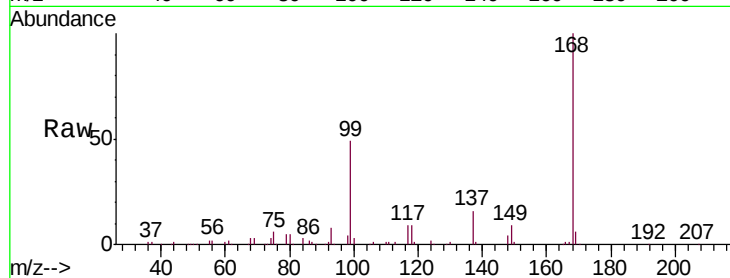
T12-G3-(0)

Tgt Ion:168 Resp: 261461

Ion Ratio Lower Upper

168 100

99 49.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034428.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034428.D (-1186) (-)

4.96

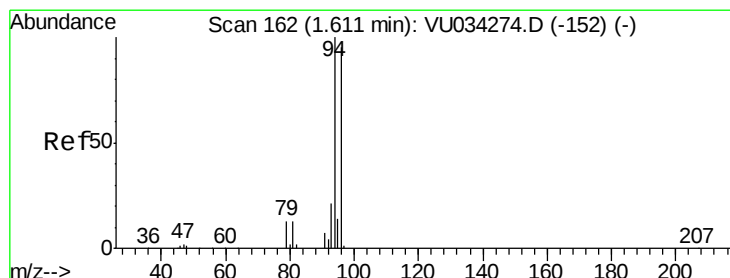
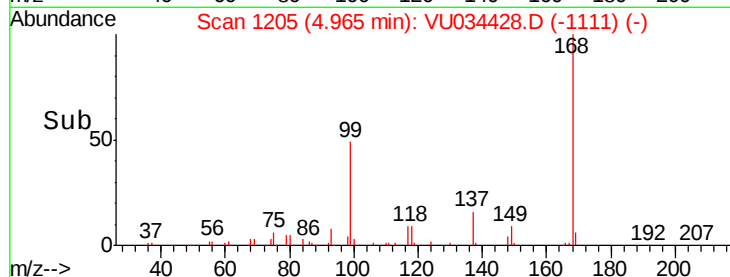
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034428.D

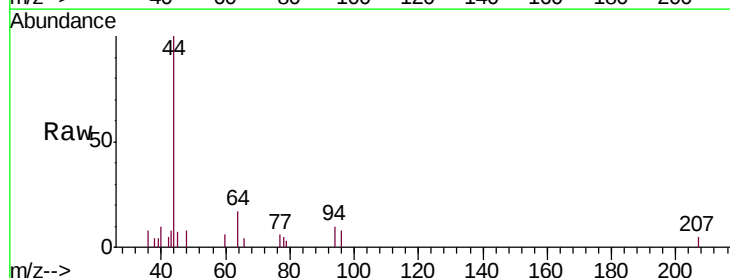
Acq: 09 Sep 2019 13:13

Tgt Ion: 94 Resp: 681

Ion Ratio Lower Upper

94 100

96 80.7 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034428.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034428.D (-68) (-)

1.63

300

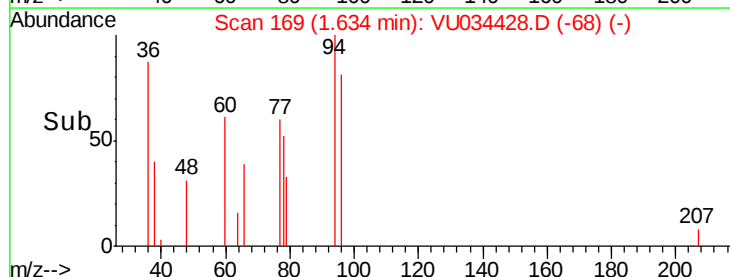
200

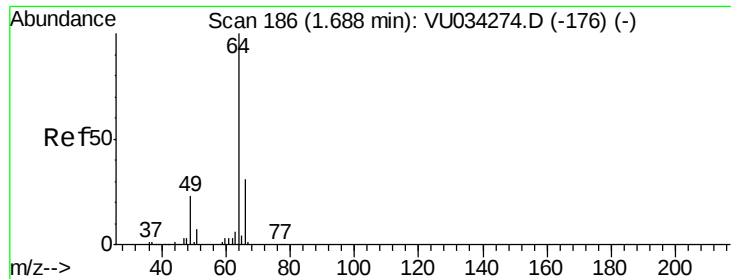
100

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

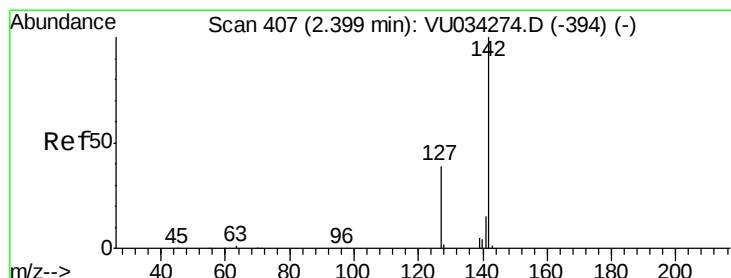
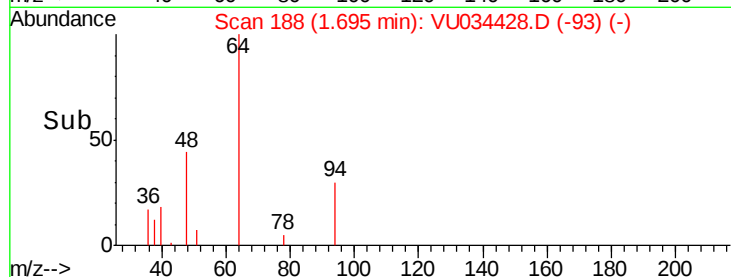
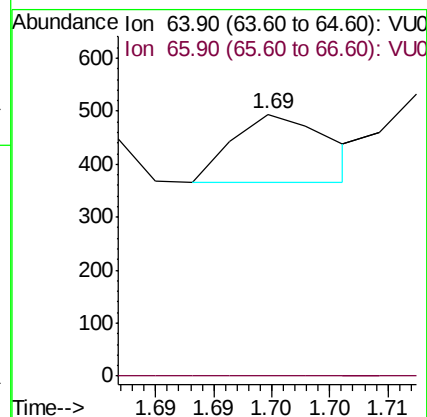
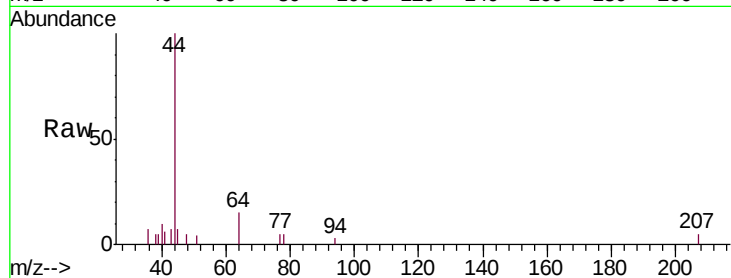
T12-G3-(0)

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.936 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

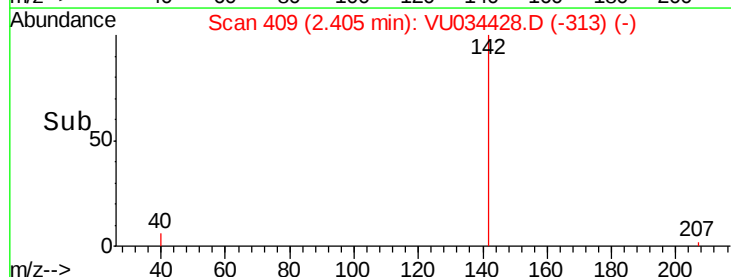
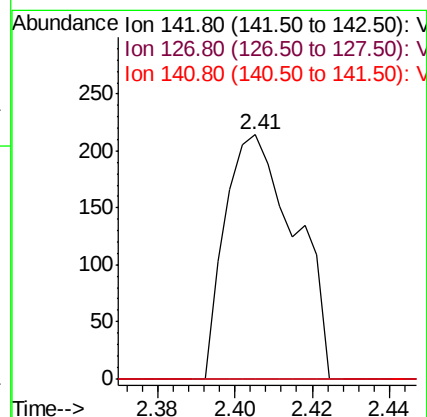
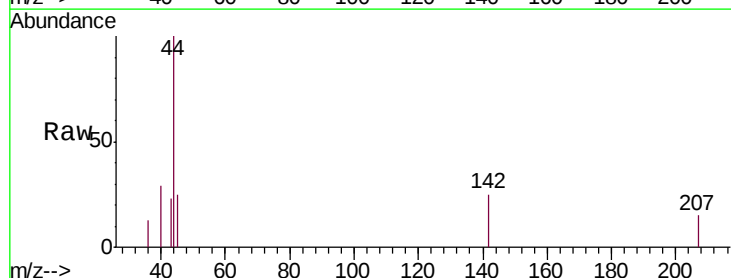
Tgt Ion: 142 Resp: 270

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



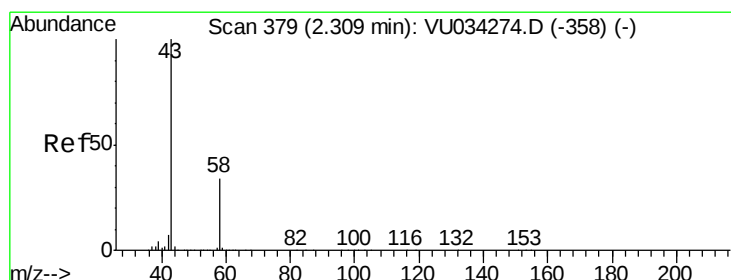
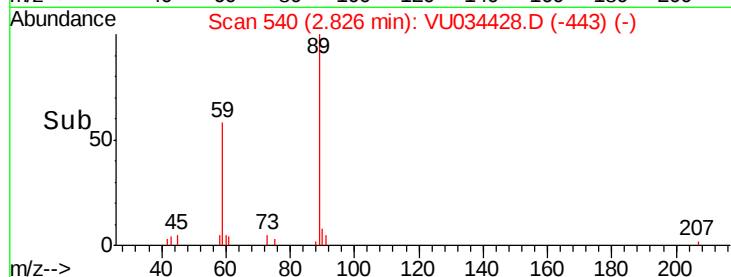
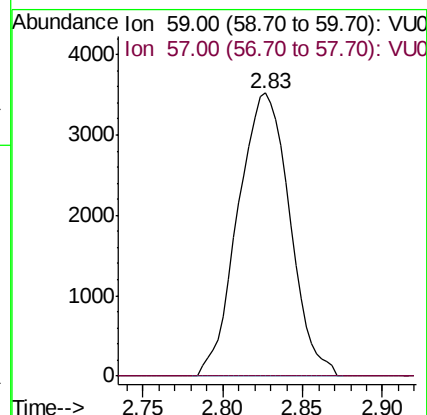
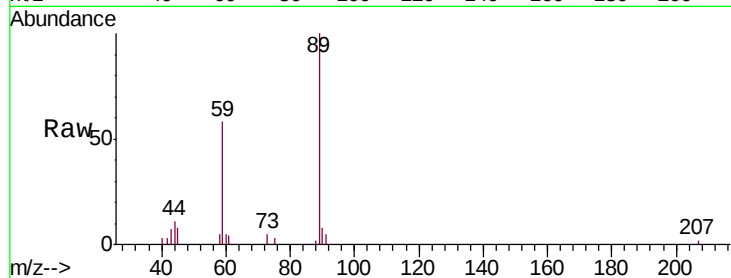


#11

Tert butyl alcohol
 Concen: 9.333 ug/l
 RT: 2.83 min Scan# 540
 Delta R.T. 0.01 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G3-(0)

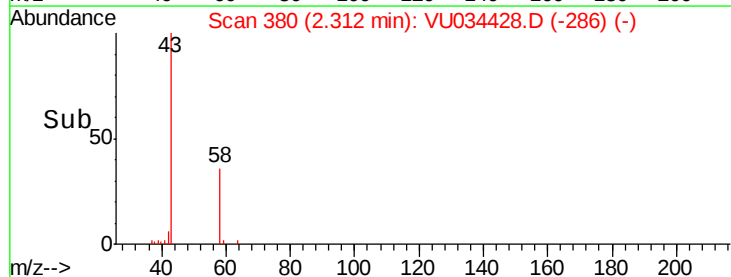
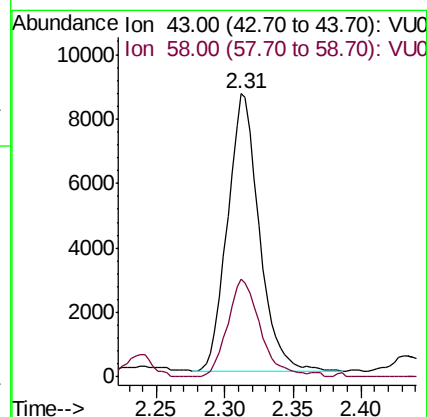
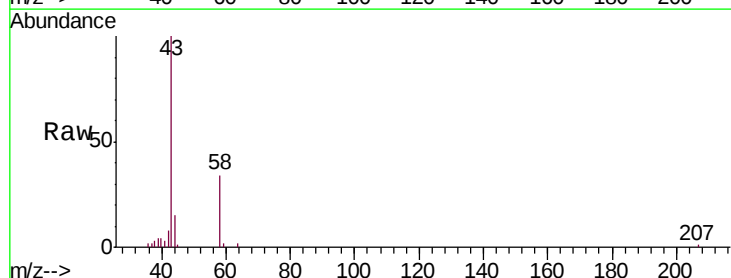
Tgt Ion: 59 Resp: 7800
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

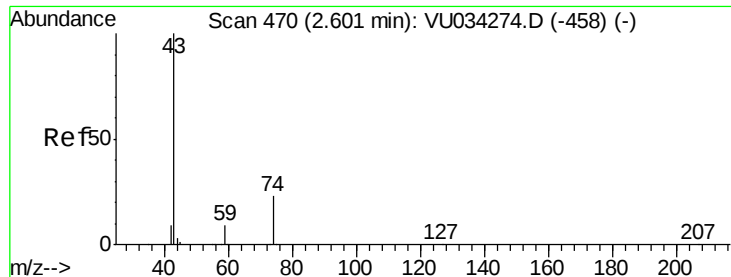


#16

Acetone
 Concen: 6.802 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Tgt Ion: 43 Resp: 13926
 Ion Ratio Lower Upper
 43 100
 58 35.2 27.6 41.4

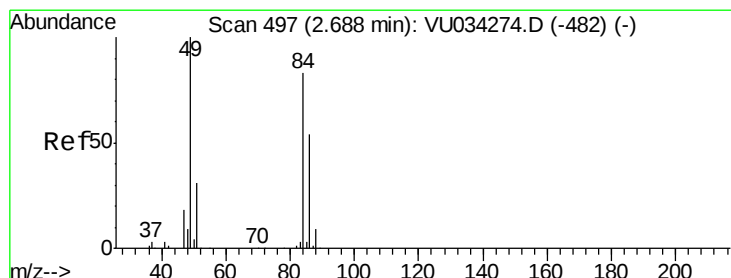
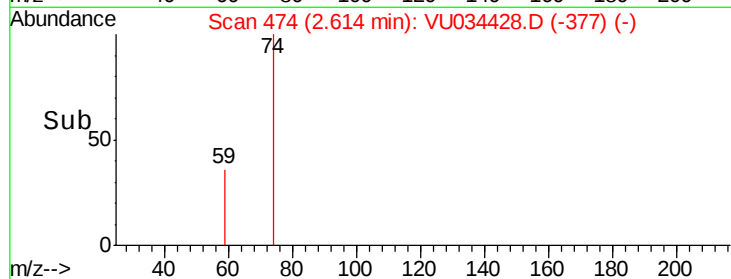
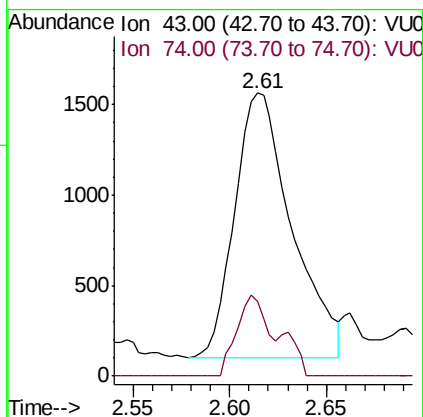
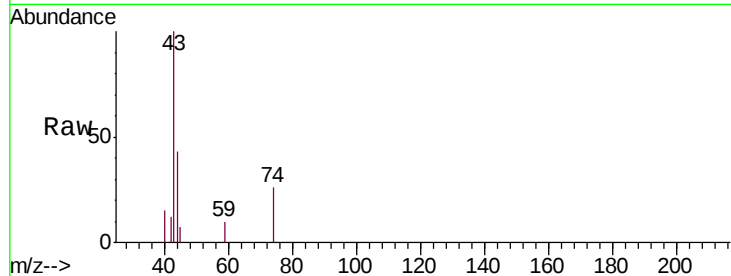




#18
Methyl Acetate
Concen: 0.601 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

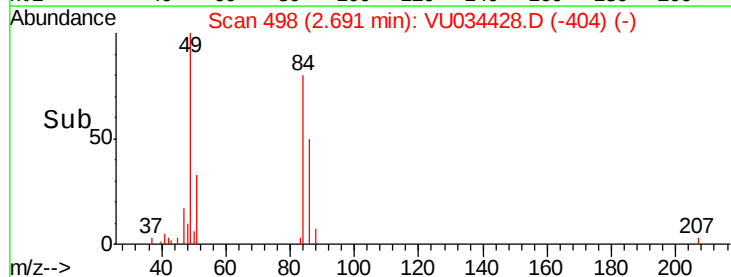
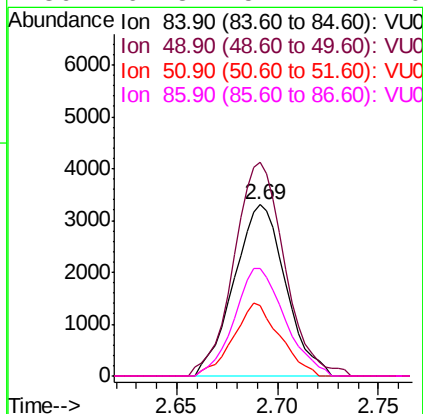
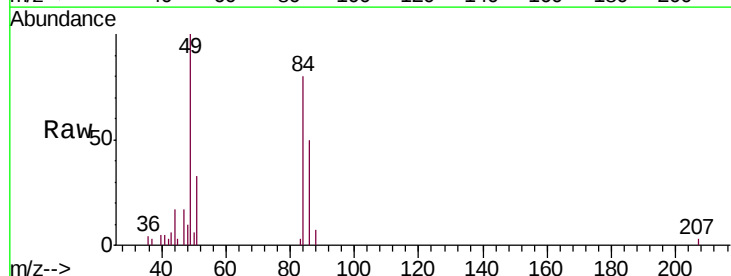
Instrument :
MSVOA_U
ClientSampleId :
T12-G3-(0)

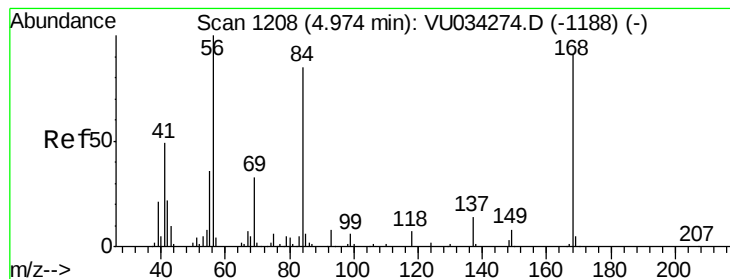
Tgt Ion: 43 Resp: 2994
Ion Ratio Lower Upper
43 100
74 16.4 18.9 28.3#



#20
Methylene Chloride
Concen: 1.374 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

Tgt Ion: 84 Resp: 5911
Ion Ratio Lower Upper
84 100
49 124.8 96.0 144.0
51 40.8 30.0 45.0
86 62.8 51.4 77.0





#31

Cyclohexane

Concen: 0.958 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

T12-G3-(0)

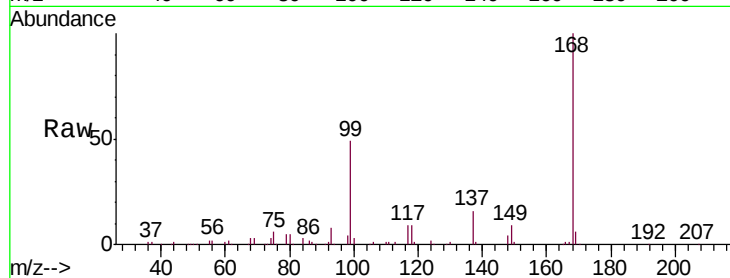
Tgt Ion: 56 Resp: 4437

Ion Ratio Lower Upper

56 100

69 185.4 26.7 40.1#

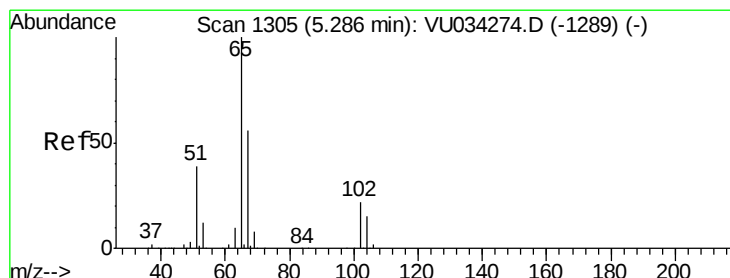
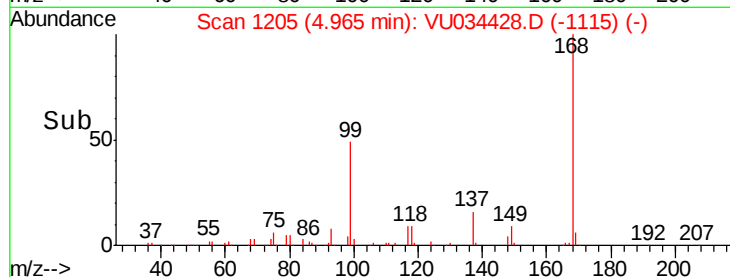
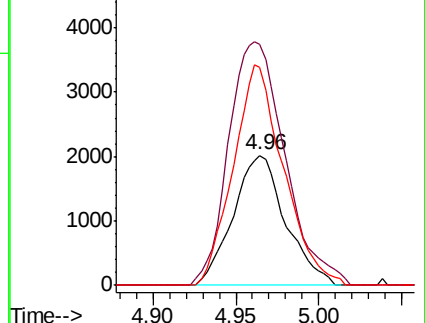
84 167.5 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034428.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034428.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034428.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.415 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034428.D

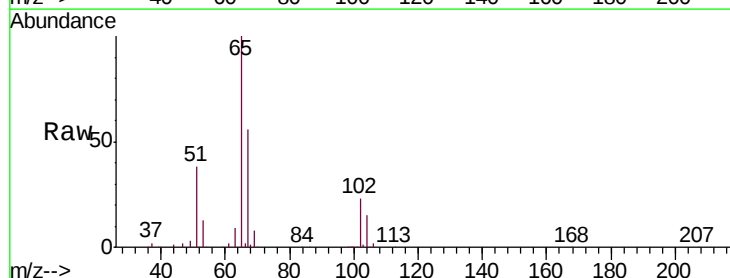
Acq: 09 Sep 2019 13:13

Tgt Ion: 65 Resp: 211310

Ion Ratio Lower Upper

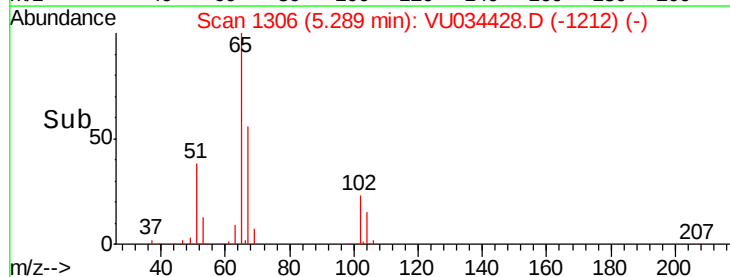
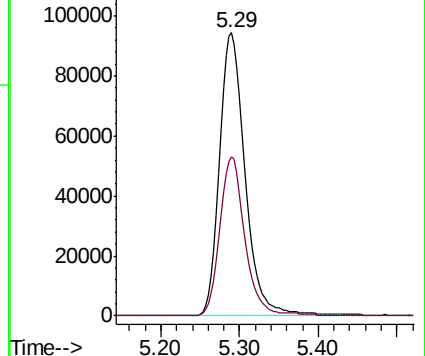
65 100

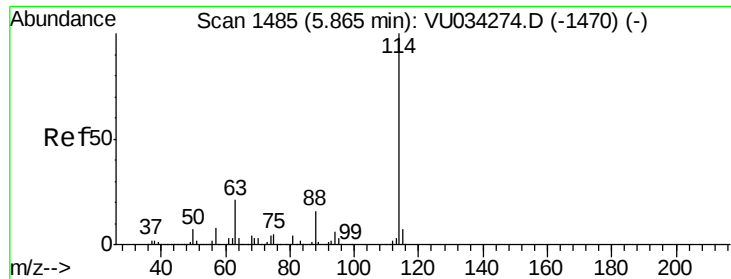
67 55.3 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034428.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034428.D (-1212) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

T12-G3-(0)

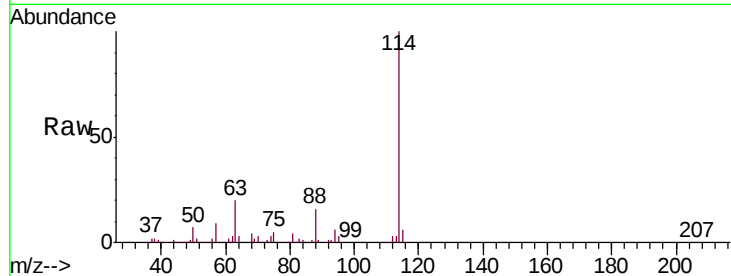
Tgt Ion:114 Resp: 387168

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.4

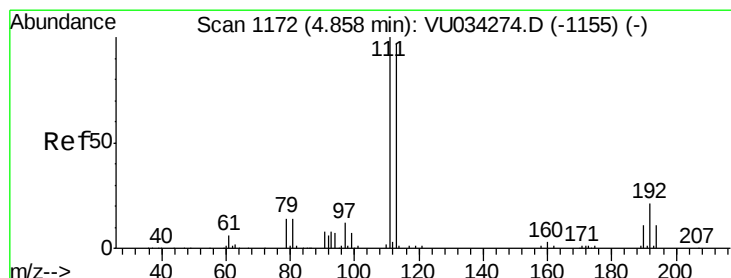
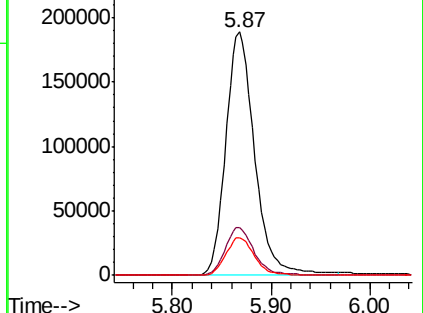
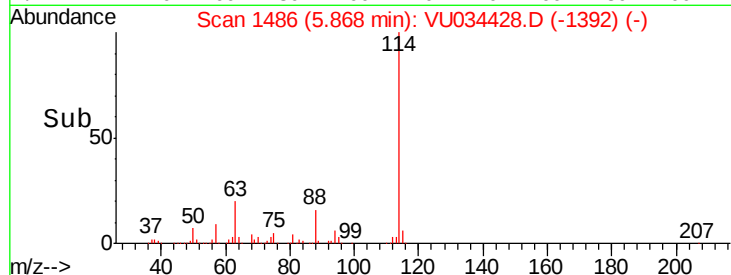
88 15.6 0.0 32.4



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: 51.716 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

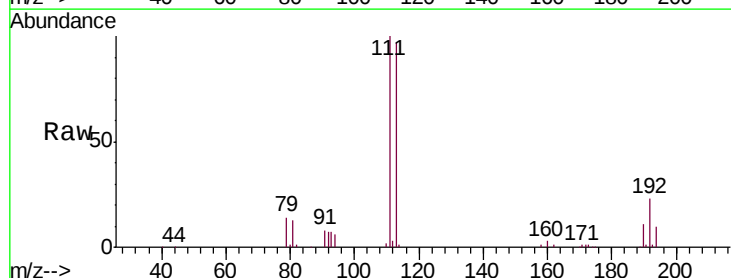
Tgt Ion:113 Resp: 186314

Ion Ratio Lower Upper

113 100

111 102.2 81.5 122.3

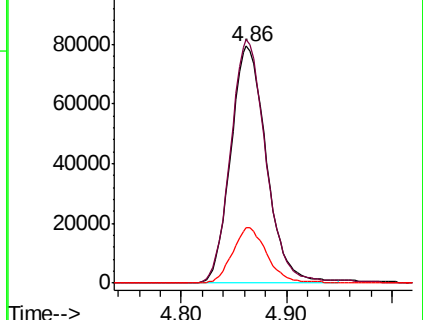
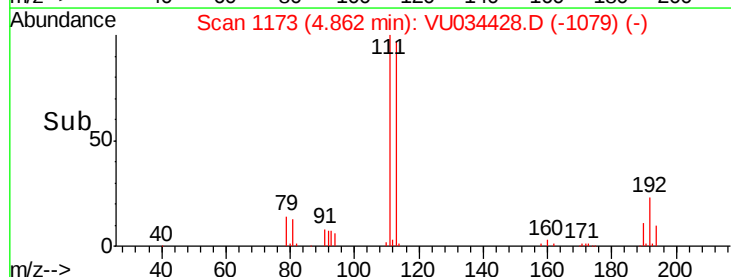
192 22.8 17.8 26.8

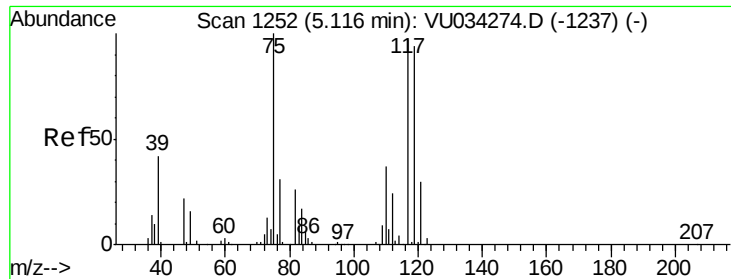


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

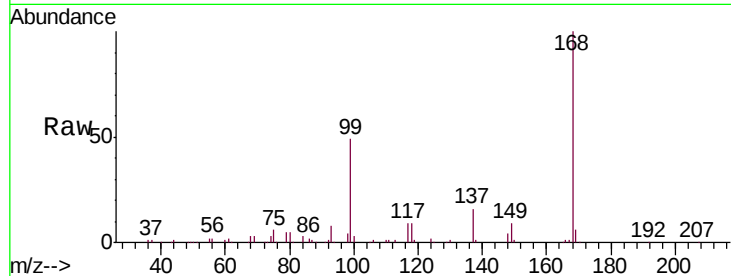




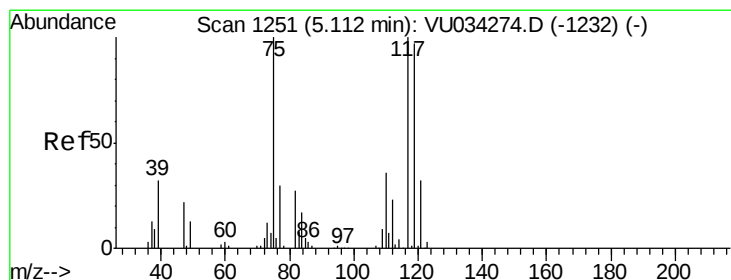
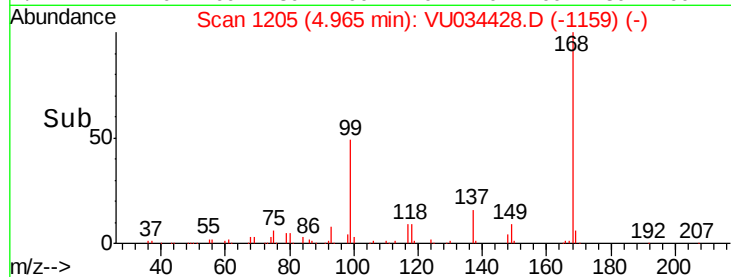
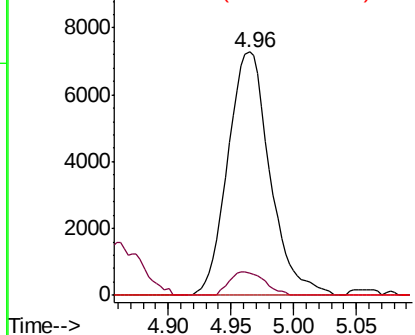
#36
 1,1-Dichloropropene
 Concen: 4.052 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G3-(0)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.3	54.9#
77	0.0	24.9	37.3#

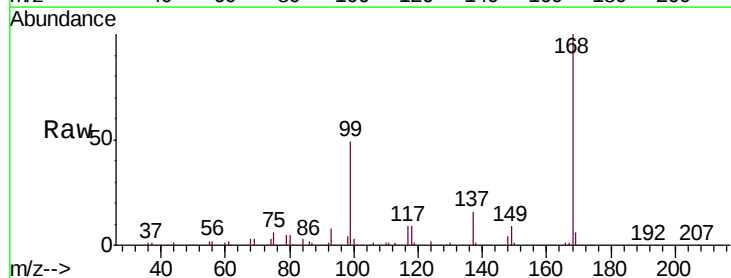


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

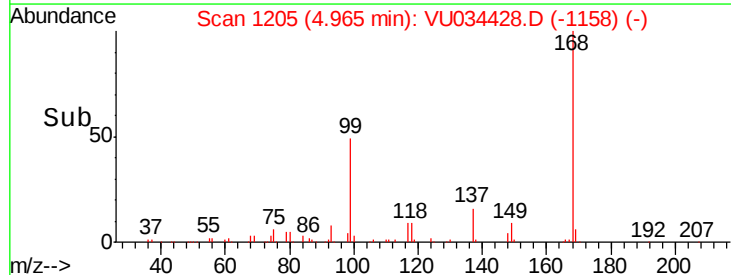
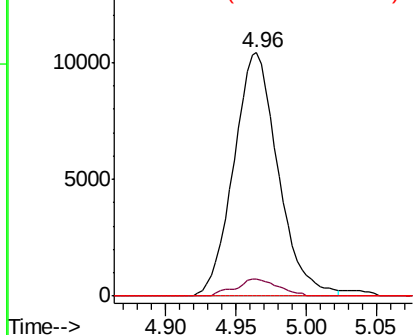


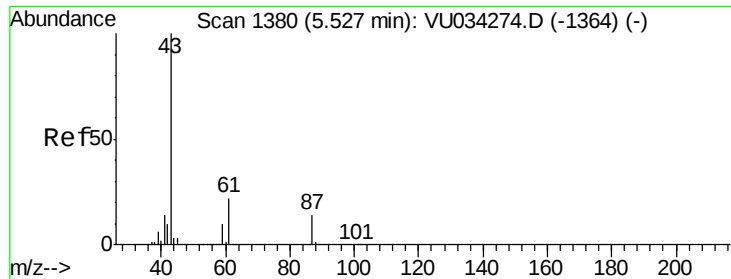
#38
 Carbon Tetrachloride
 Concen: 5.112 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.8	116.6#
121	0.0	25.2	37.8#



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: 6.780 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

T12-G3-(0)

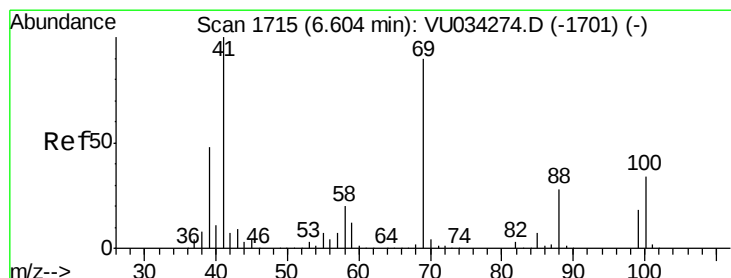
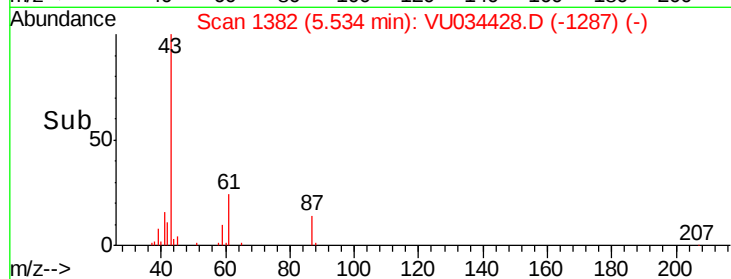
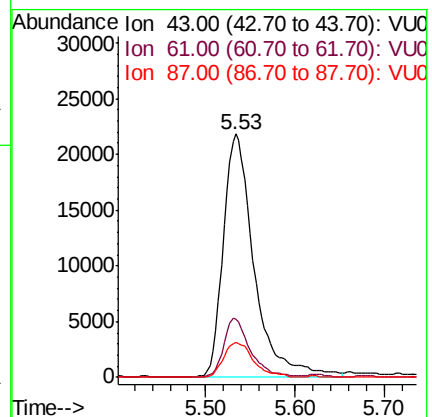
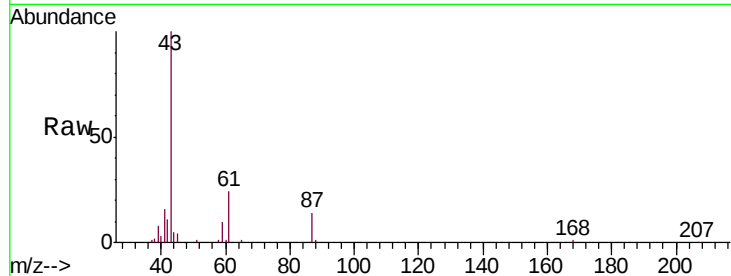
Tgt Ion: 43 Resp: 52511

Ion Ratio Lower Upper

43 100

61 21.0 17.1 25.7

87 13.8 11.1 16.7



#48

Methyl methacrylate

Concen: 21.541 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

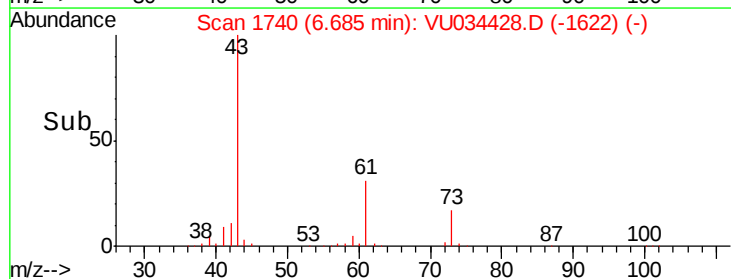
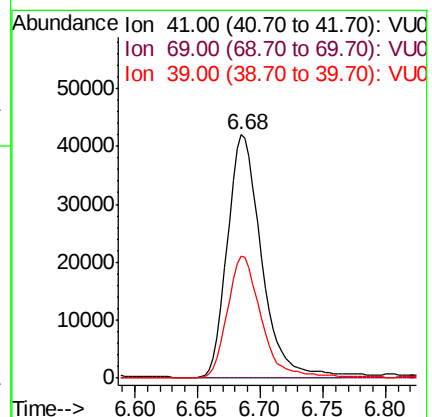
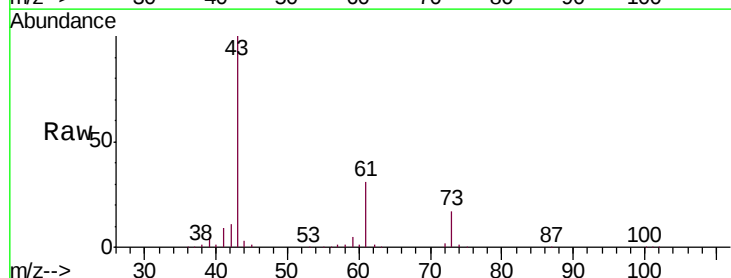
Tgt Ion: 41 Resp: 79235

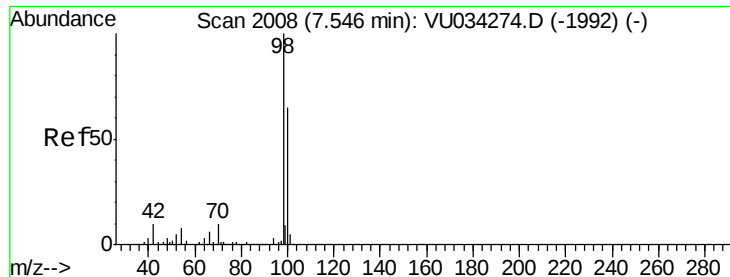
Ion Ratio Lower Upper

41 100

69 0.1 72.8 109.2#

39 50.2 38.6 58.0





#50

Toluene-d8

Concen: 50.117 ug/l

RT: 7.54 min Scan# 2007

Delta R.T. -0.00 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

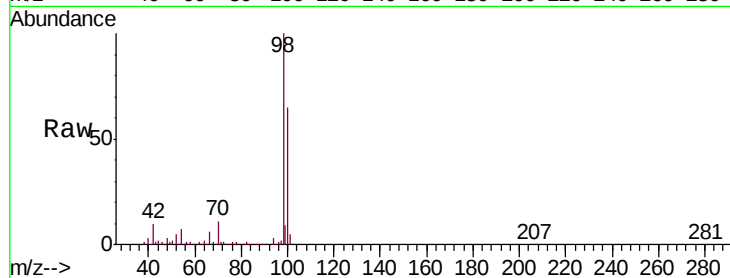
T12-G3-(0)

Tgt Ion: 98 Resp: 678343

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034428.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034428.D (-1915) (-)

7.54

400000

300000

200000

100000

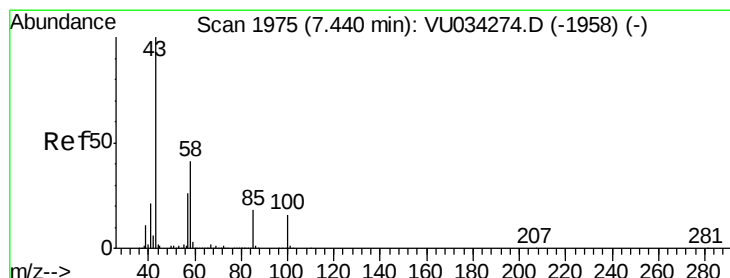
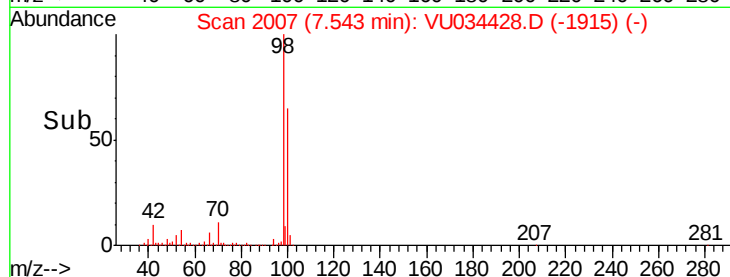
0

Time-->

7.50

7.60

7.70



#51

4-Methyl-2-Pentanone

Concen: 9.039 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034428.D

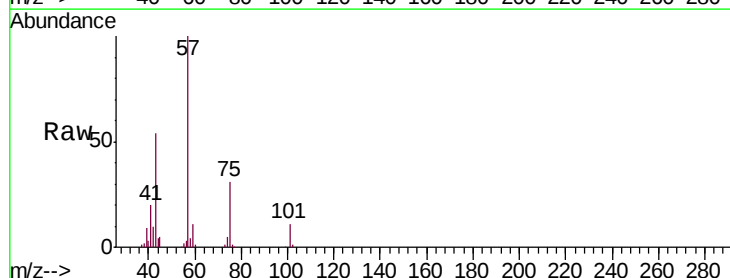
Acq: 09 Sep 2019 13:13

Tgt Ion: 43 Resp: 48456

Ion Ratio Lower Upper

43 100

58 7.7 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034428.D (-1882) (-)

Ion 58.00 (57.70 to 58.70): VU034428.D (-1882) (-)

7.40

30000

20000

10000

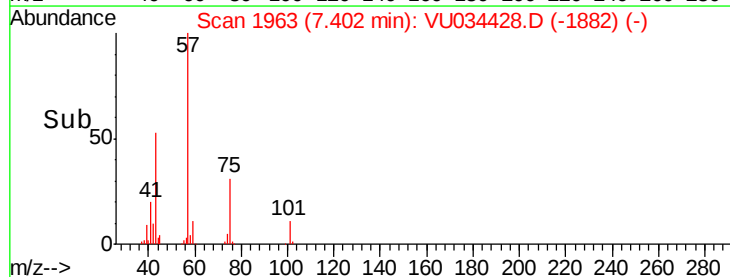
0

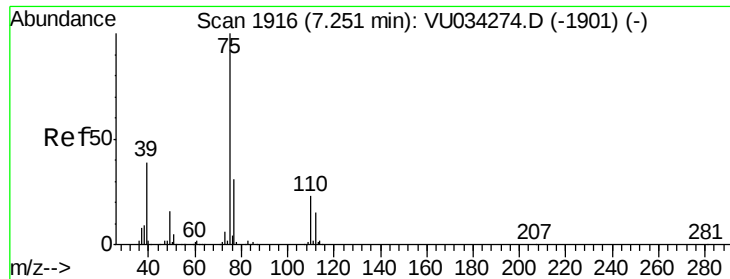
Time-->

7.35

7.40

7.45



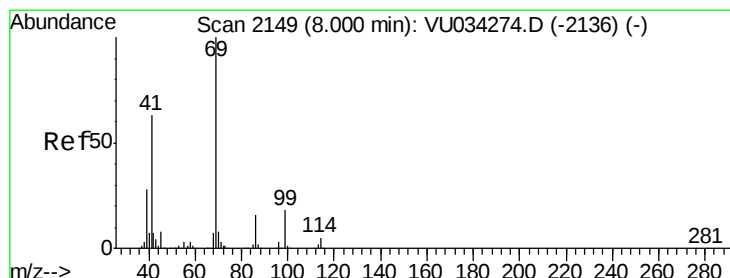
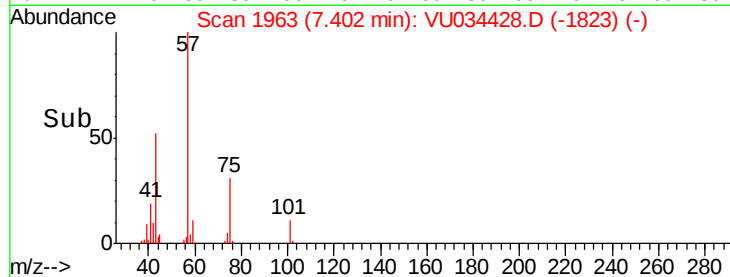
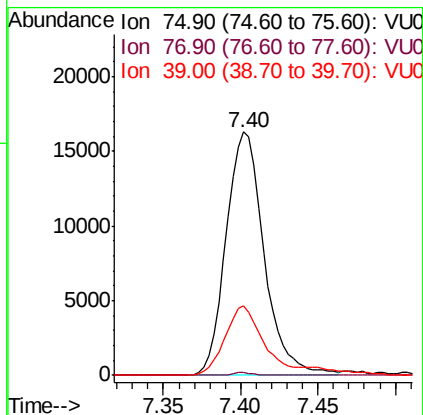
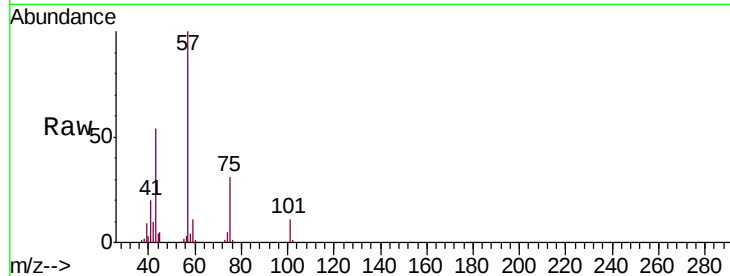


#54

cis-1,3-Dichloropropene
 Concen: 4.773 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G3-(0)

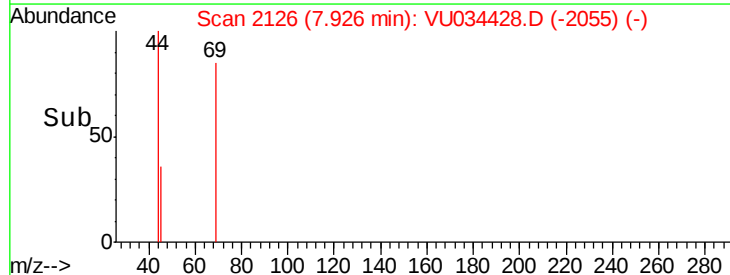
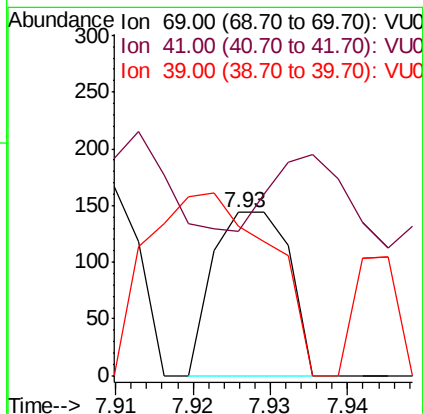
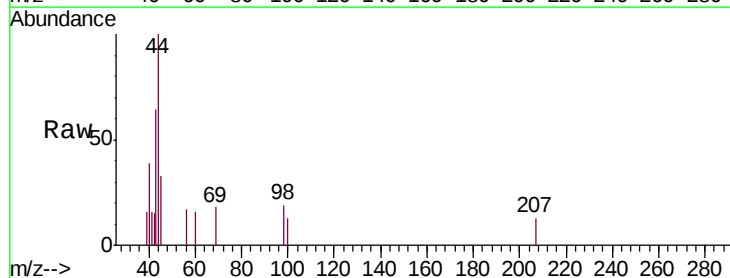
Tgt Ion: 75 Resp: 27789
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.1 37.7#
 39 28.7 31.2 46.8#

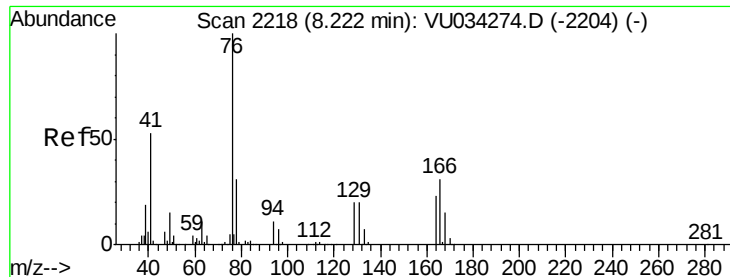


#56

Ethyl methacrylate
 Concen: 3.092 ug/l
 RT: 7.93 min Scan# 2126
 Delta R.T. -0.07 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Tgt Ion: 69 Resp: 99
 Ion Ratio Lower Upper
 69 100
 41 0.0 49.5 74.3#
 39 0.0 22.5 33.7#





#57

1,3-Dichloropropane

Concen: 0.685 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034428.D

Acq: 09 Sep 2019 13:13

Instrument :

MSVOA_U

ClientSampleId :

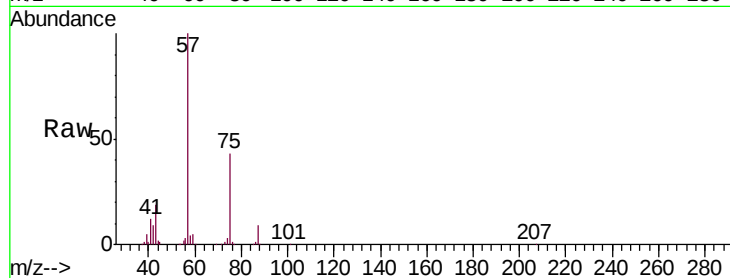
T12-G3-(0)

Tgt Ion: 76 Resp: 4304

Ion Ratio Lower Upper

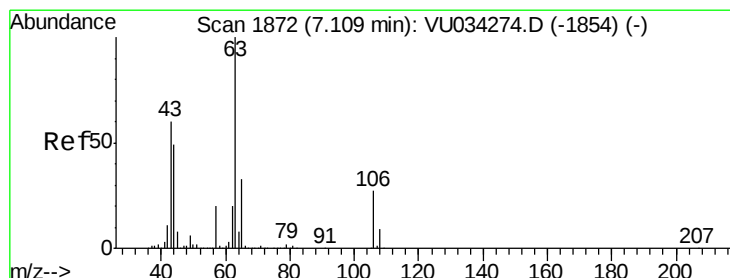
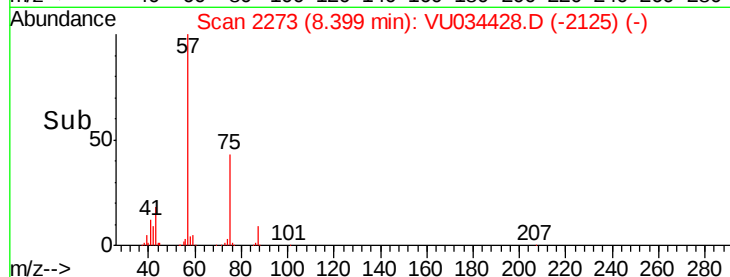
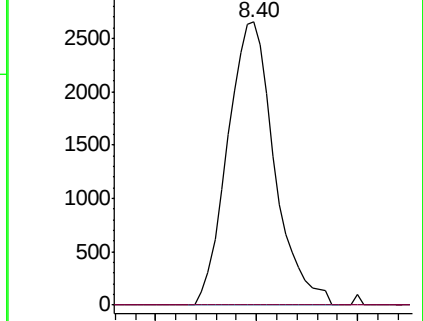
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034428.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034428.D (-2125) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 16.733 ug/l

RT: 7.13 min Scan# 1880

Delta R.T. 0.03 min

Lab File: VU034428.D

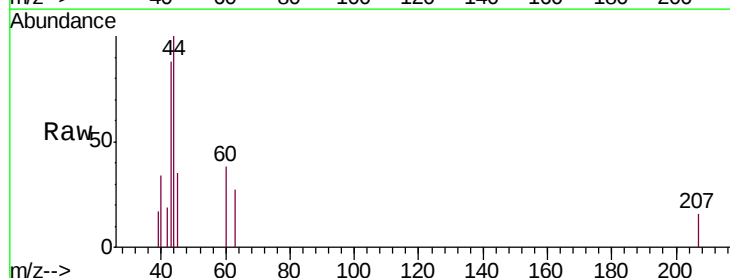
Acq: 09 Sep 2019 13:13

Tgt Ion: 63 Resp: 249

Ion Ratio Lower Upper

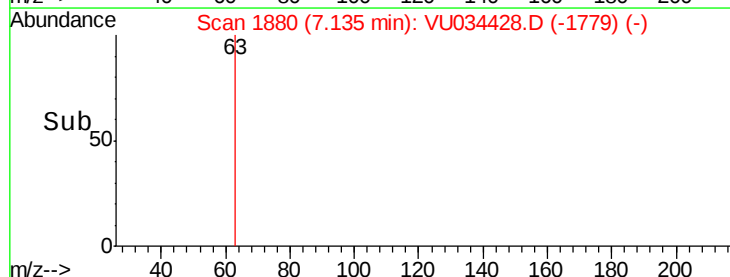
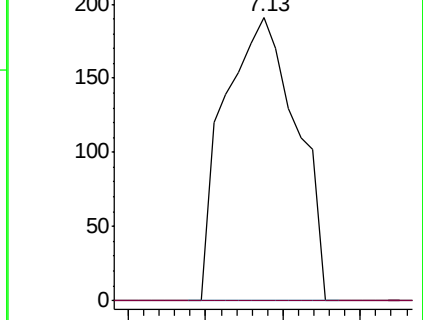
63 100

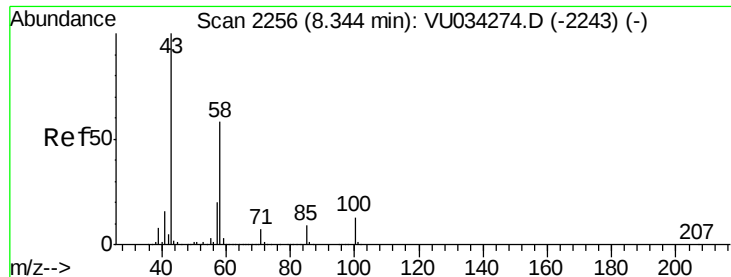
106 0.0 21.6 32.4#



Abundance Ion 62.90 (62.60 to 63.60): VU034428.D (-1779) (-)

Ion 105.90 (105.60 to 106.60): VU034428.D (-1779) (-)

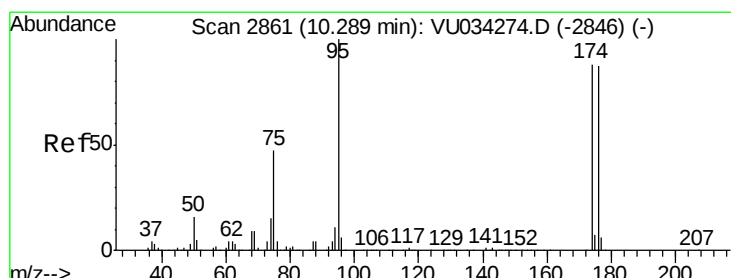
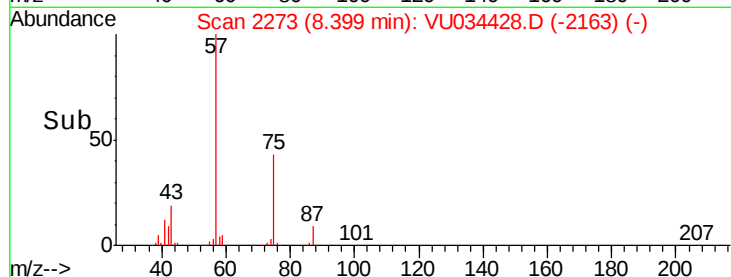
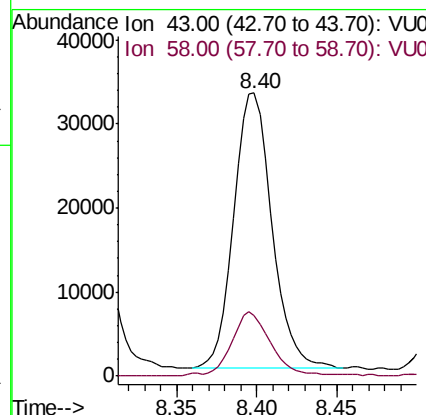
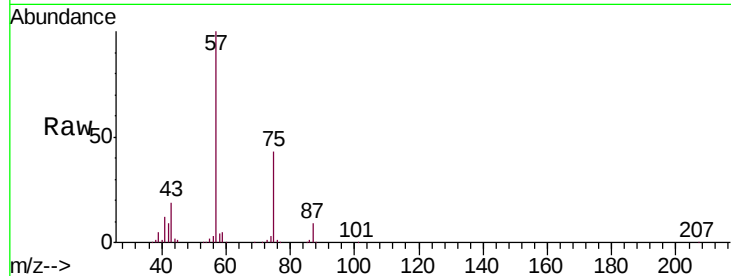




#59
2-Hexanone
Concen: 13.305 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

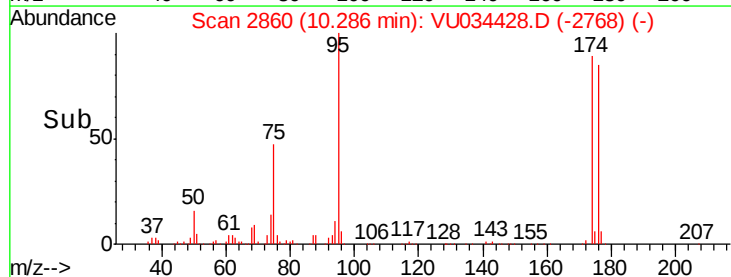
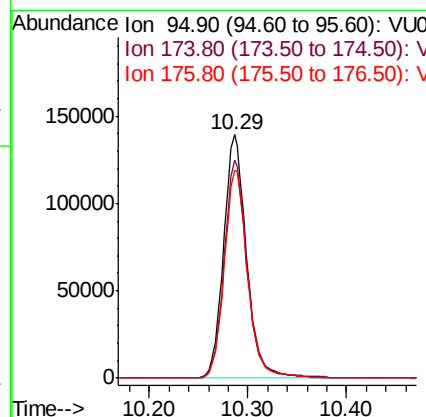
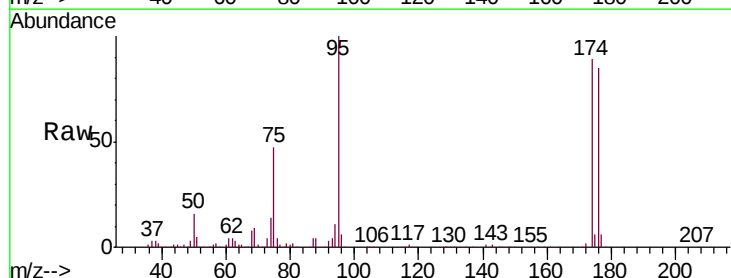
Instrument :
MSVOA_U
ClientSampleId :
T12-G3-(0)

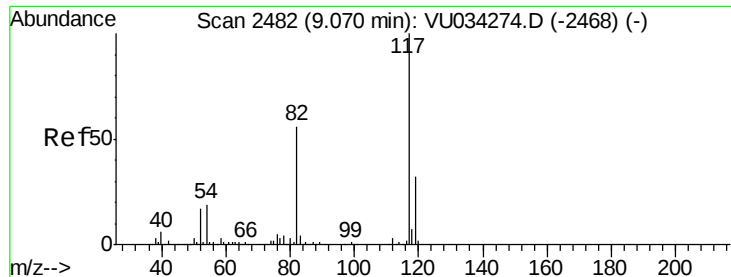
Tgt Ion: 43 Resp: 53281
Ion Ratio Lower Upper
43 100
58 24.1 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 43.572 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

Tgt Ion: 95 Resp: 227701
Ion Ratio Lower Upper
95 100
174 90.4 0.0 175.2
176 86.3 0.0 168.0

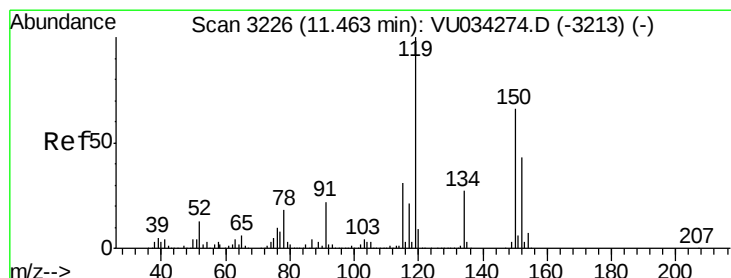
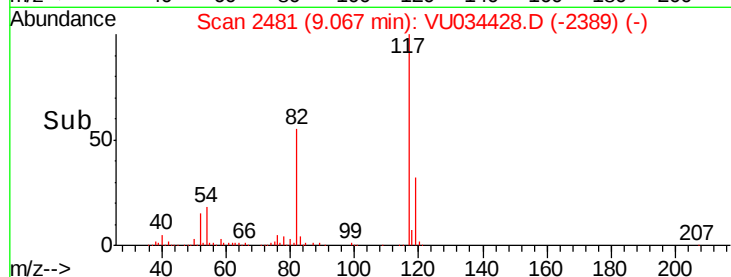
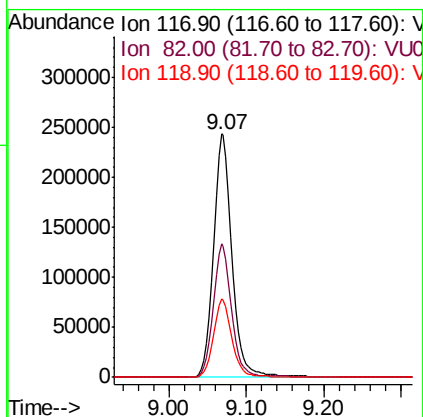
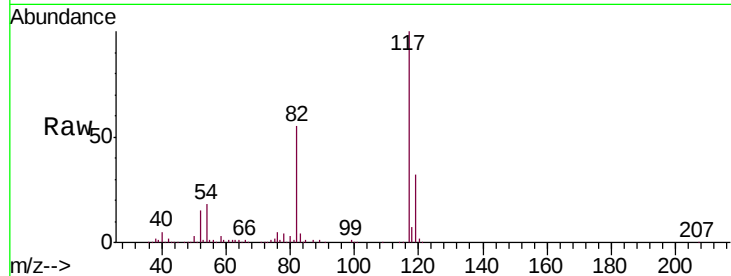




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

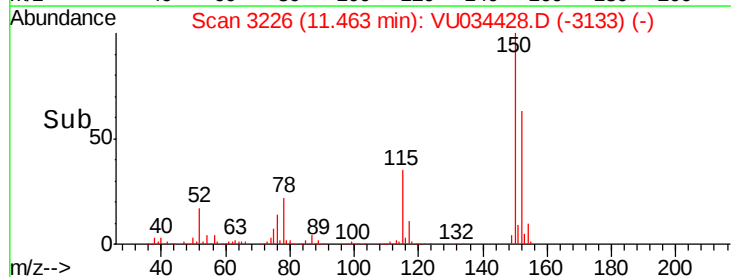
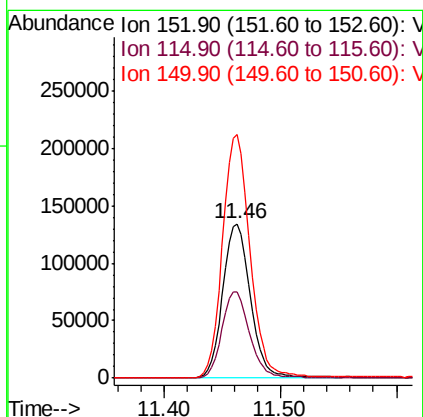
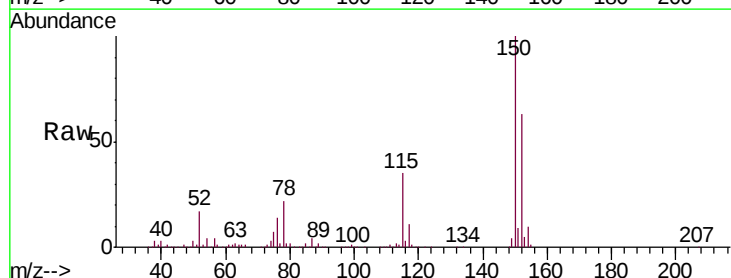
Instrument :
MSVOA_U
ClientSampleId :
T12-G3-(0)

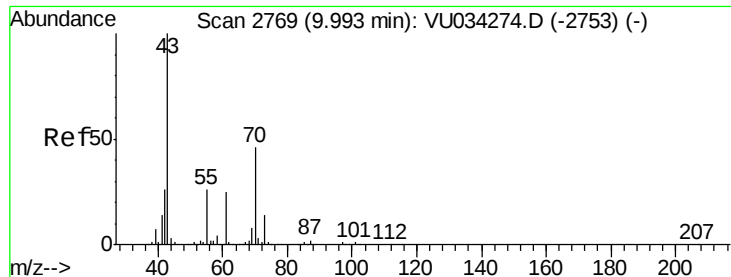
Tgt Ion:117 Resp: 415416
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 32.1 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

Tgt Ion:152 Resp: 222641
Ion Ratio Lower Upper
152 100
115 55.8 39.1 117.3
150 157.3 0.0 345.4

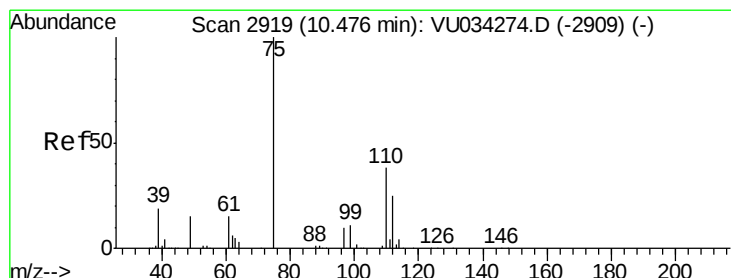
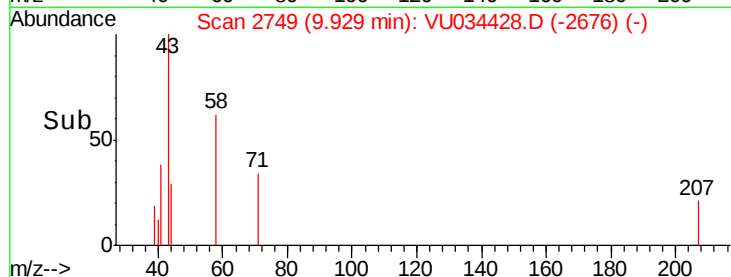
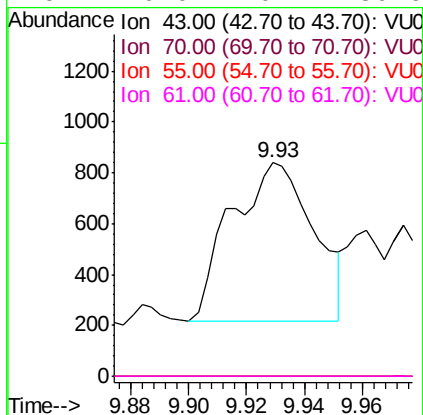
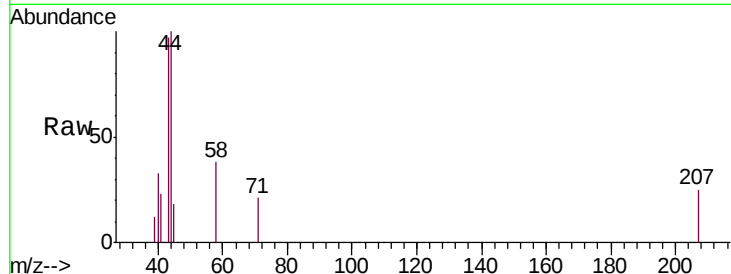




#74
N-amyI acetate
Concen: 0.210 ug/l
RT: 9.93 min Scan# 2749
Delta R.T. -0.06 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

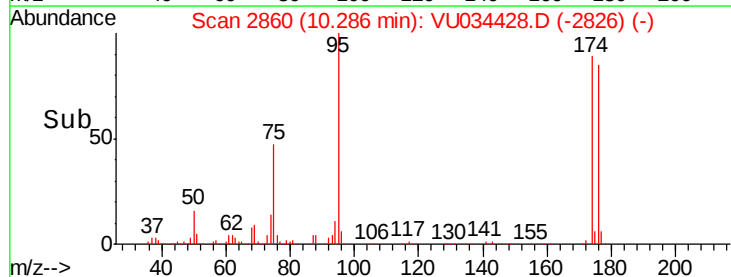
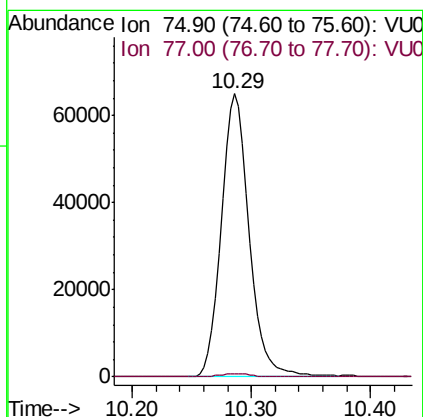
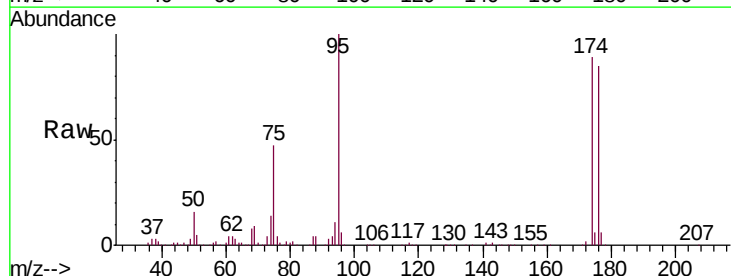
Instrument :
MSVOA_U
ClientSampleId :
T12-G3-(0)

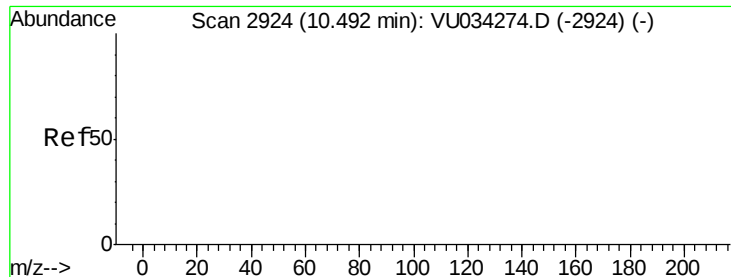
Tgt Ion:	43	Resp:	1227
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.4	54.6#
55	0.0	21.2	31.8#
61	0.0	20.4	30.6#



#76
1,2,3-Trichloropropane
Concen: 21.687 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.19 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

Tgt Ion:	75	Resp:	105394
Ion	Ratio	Lower	Upper
75	100		
77	1.3	20.8	62.2#

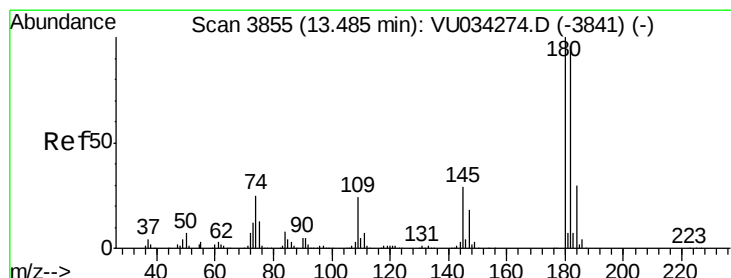
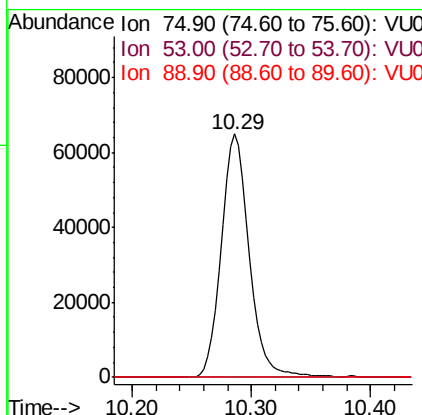
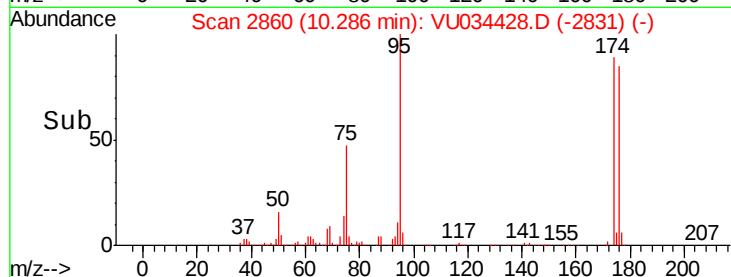
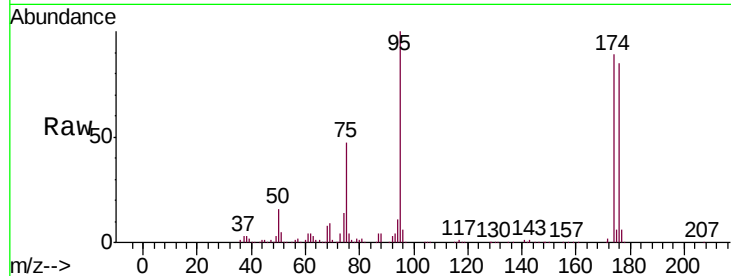




#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.931 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.21 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

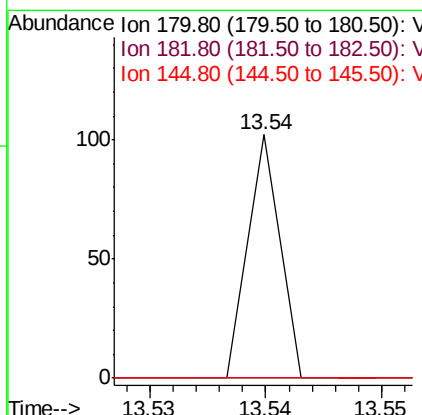
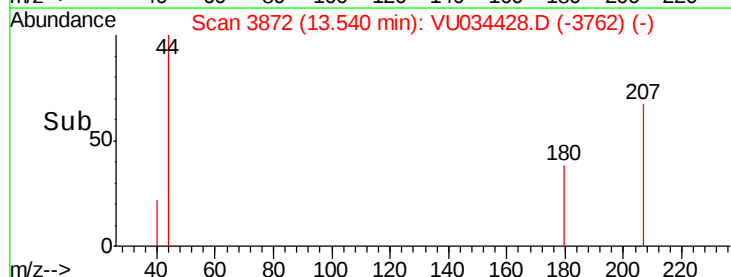
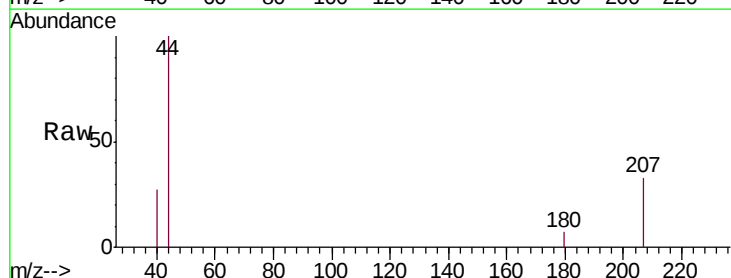
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G3-(0)

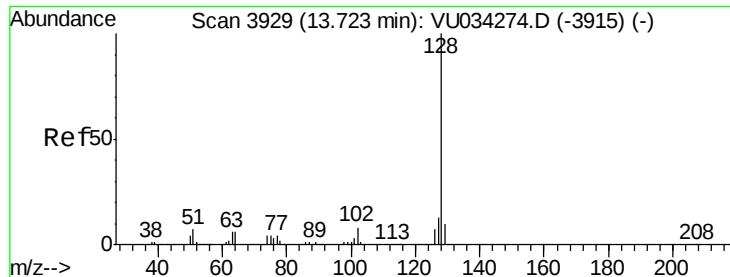
Tgt Ion: 75 Resp: 105394
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0



#93
 1,2,4-Trichlorobenzene
 Concen: 3.455 ug/l
 RT: 13.54 min Scan# 3872
 Delta R.T. 0.05 min
 Lab File: VU034428.D
 Acq: 09 Sep 2019 13:13

Tgt Ion: 180 Resp: 20
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

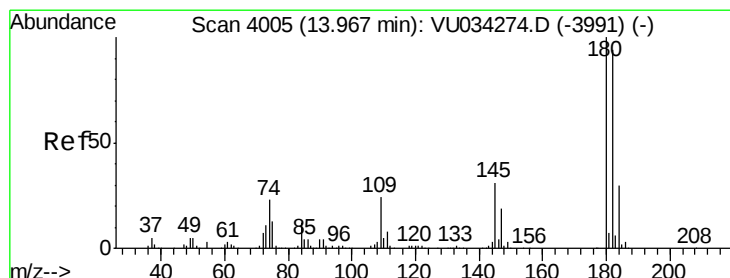
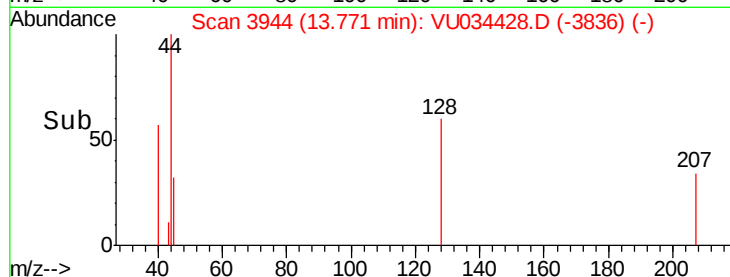
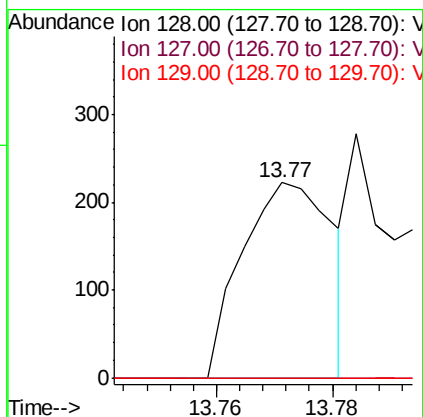
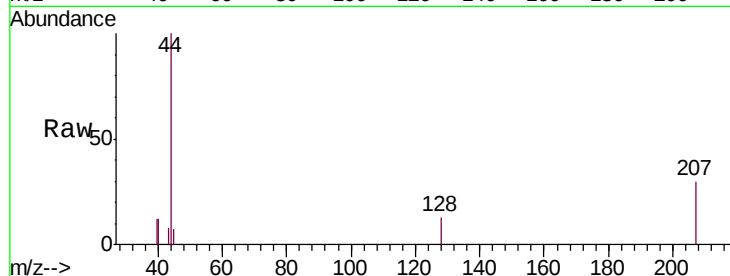




#95
Naphthalene
Concen: 3.981 ug/l
RT: 13.77 min Scan# 3944
Delta R.T. 0.05 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

Instrument :
MSVOA_U
ClientSampleId :
T12-G3-(0)

Tgt Ion:128 Resp: 239
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.653 ug/l
RT: 14.03 min Scan# 4024
Delta R.T. 0.06 min
Lab File: VU034428.D
Acq: 09 Sep 2019 13:13

Tgt Ion:180 Resp: 77
Ion Ratio Lower Upper
180 100
182 26.0 48.4 145.0#
145 0.0 15.4 46.4#

