

Data File : VU034424.D
Acq On : 09 Sep 2019 11:40
Operator : JC/SP
Sample : K4602-21
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(0)

Quant Time: Sep 10 05:36:14 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	242260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	367307	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	394915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	210921	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	201836	55.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.12%	
35) Dibromofluoromethane	4.86	113	179686	52.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.14%	
50) Toluene-d8	7.55	98	660006	51.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.80%	
62) 4-Bromofluorobenzene	10.29	95	215398	43.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.90%	

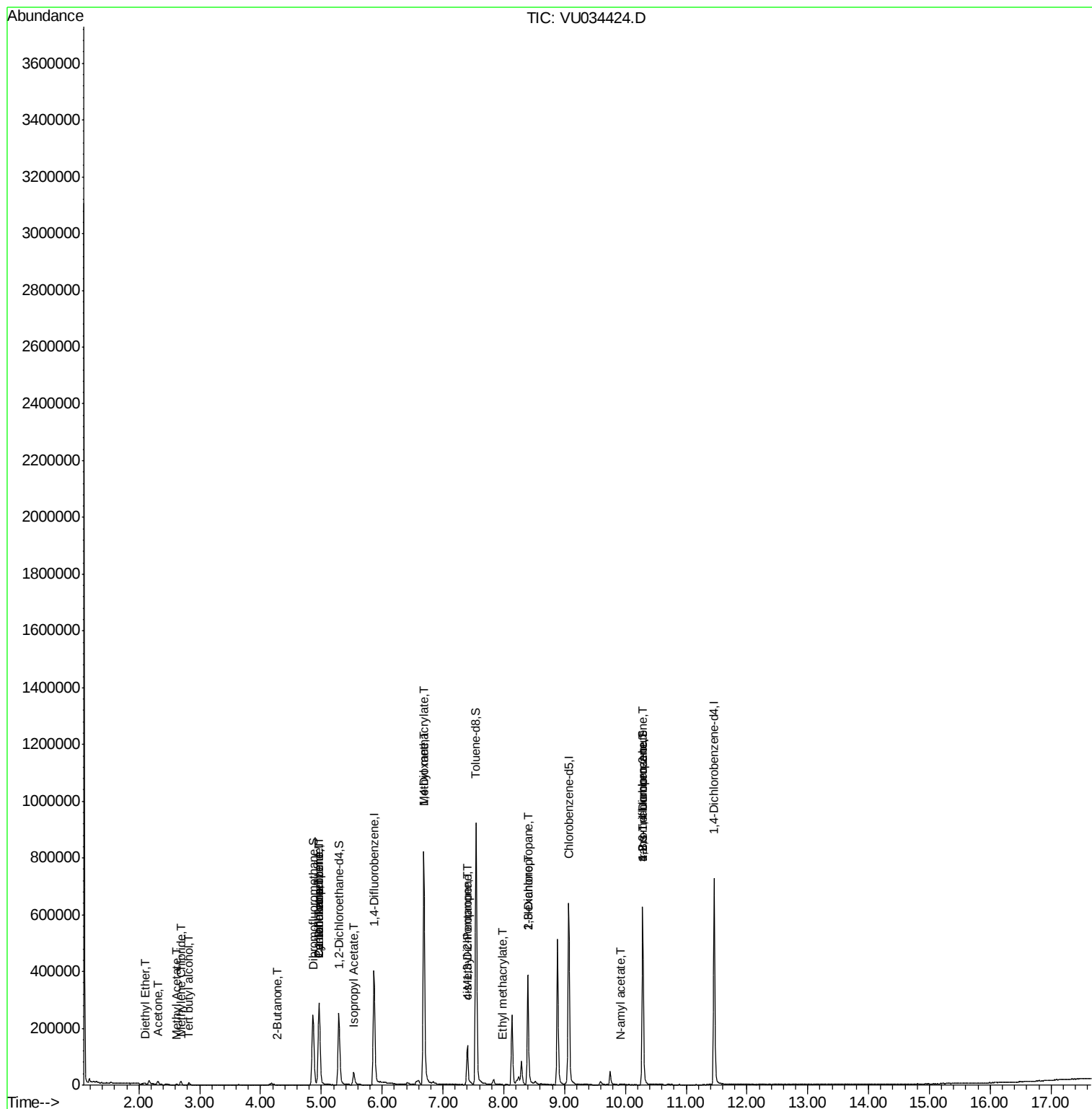
Target Compounds			Qvalue			
5) Bromomethane	1.62	94	266	Below Cal	#	78
6) Chloroethane	1.68	64	157	Below Cal	#	43
8) Diethyl Ether	2.10	74	418	0.224	ug/l	95
11) Tert butyl alcohol	2.83	59	4125	5.327	ug/l #	73
16) Acetone	2.31	43	13236	6.978	ug/l	95
18) Methyl Acetate	2.61	43	3238	0.702	ug/l	95
20) Methylene Chloride	2.69	84	5717	1.452	ug/l	92
25) 2-Butanone	4.29	43	709	0.280	ug/l #	48
31) Cyclohexane	4.96	56	3838	0.894	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16350	4.104	ug/l #	48
38) Carbon Tetrachloride	4.96	117	21738	5.111	ug/l #	18
43) Isopropyl Acetate	5.53	43	50525	6.877	ug/l	99
48) Methyl methacrylate	6.68	41	75476	21.629	ug/l #	36
49) 1,4-Dioxane	6.69	88	103	1.352	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	52306	10.285	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	25572	4.629	ug/l #	67
56) Ethyl methacrylate	7.97	69	115	3.096	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	4402	0.738	ug/l #	43
59) 2-Hexanone	8.40	43	52067	13.704	ug/l #	54
74) N-amyl acetate	9.92	43	2046	0.370	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	100793	21.892	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	100793	73.622	ug/l #	100

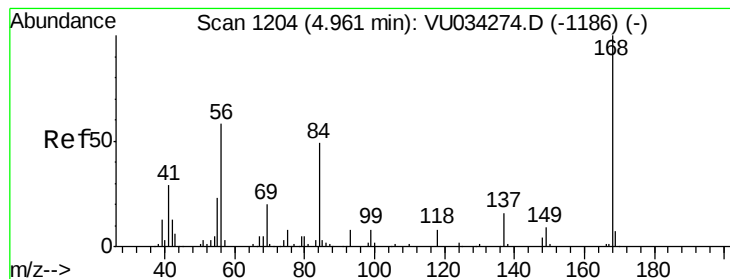
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

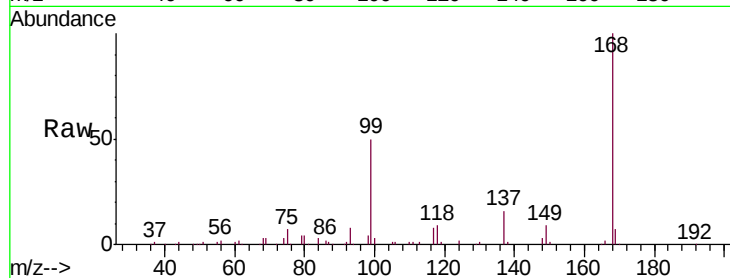
T12-G2-(0)

Tgt Ion:168 Resp: 242260

Ion Ratio Lower Upper

168 100

99 50.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034424.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034424.D (-1186) (-)

4.96

120000

100000

80000

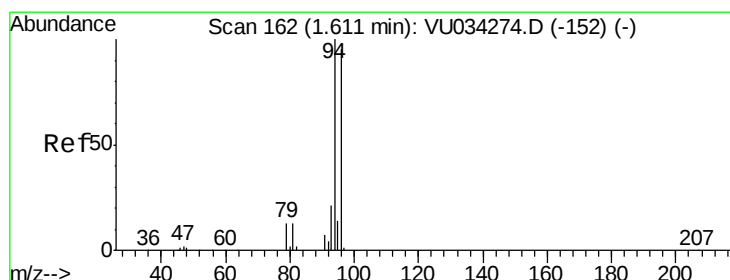
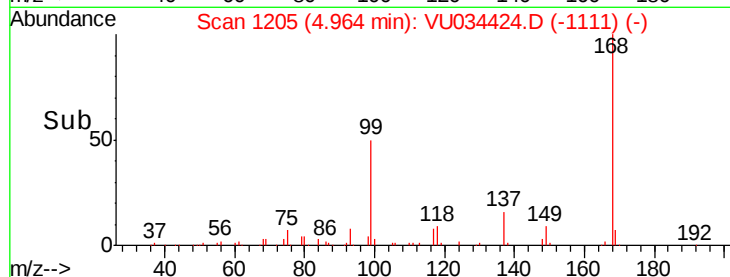
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU034424.D

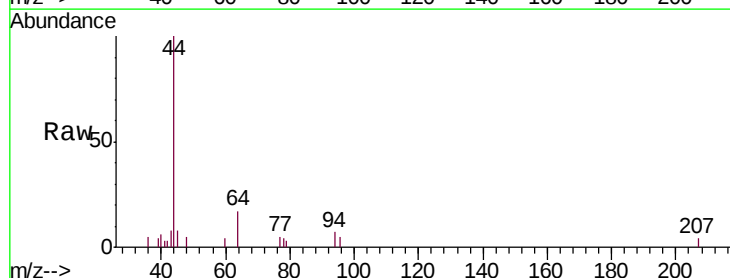
Acq: 09 Sep 2019 11:40

Tgt Ion: 94 Resp: 266

Ion Ratio Lower Upper

94 100

96 73.6 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034424.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034424.D (-152) (-)

1.62

400

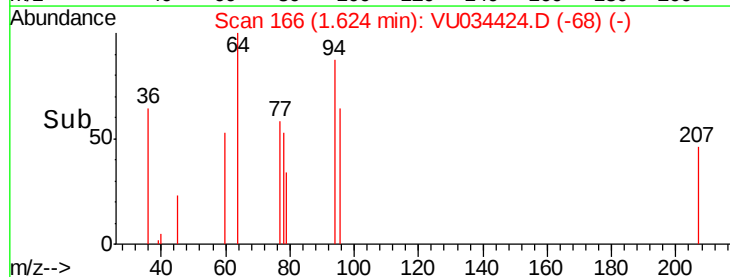
300

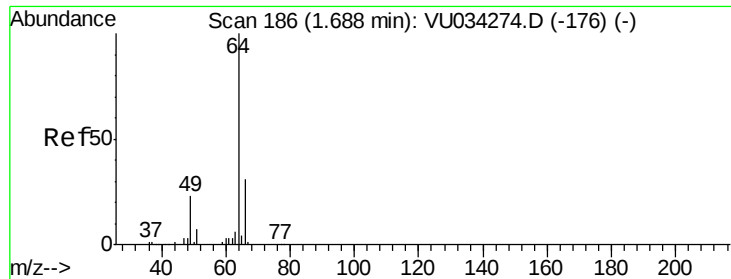
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

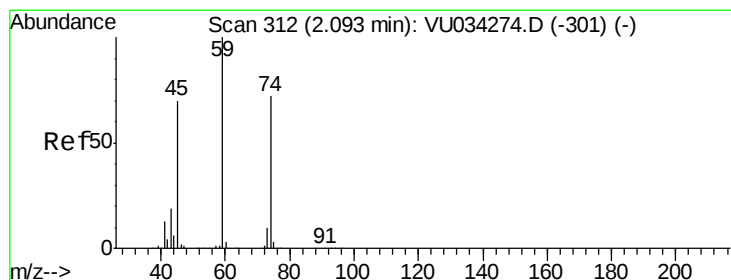
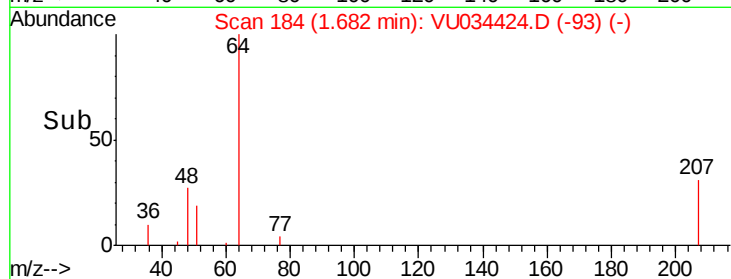
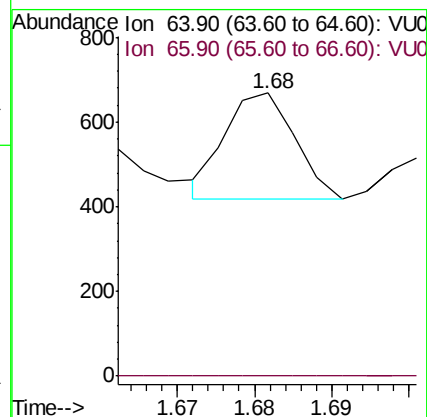
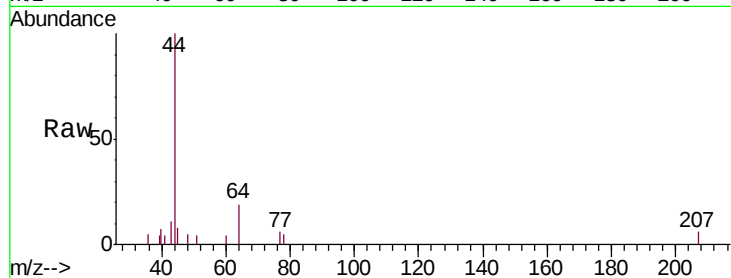
T12-G2-(0)

Tgt Ion: 64 Resp: 157

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#8

Diethyl Ether

Concen: 0.224 ug/l

RT: 2.10 min Scan# 314

Delta R.T. 0.01 min

Lab File: VU034424.D

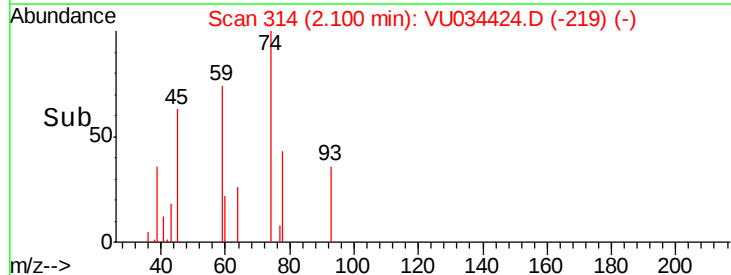
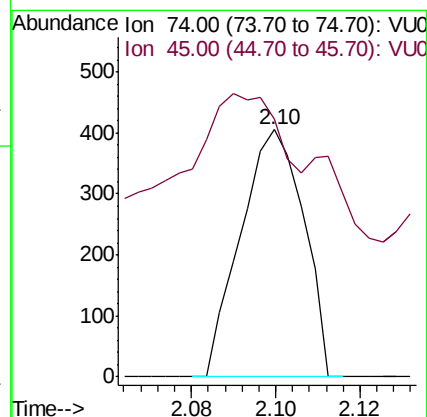
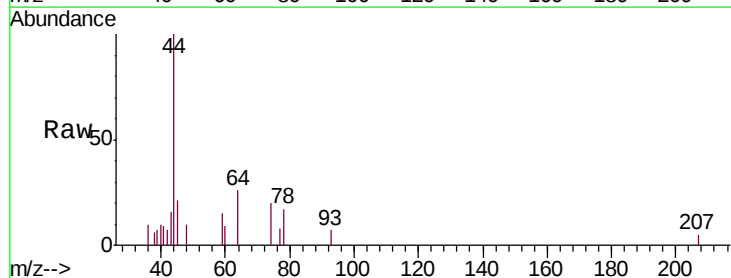
Acq: 09 Sep 2019 11:40

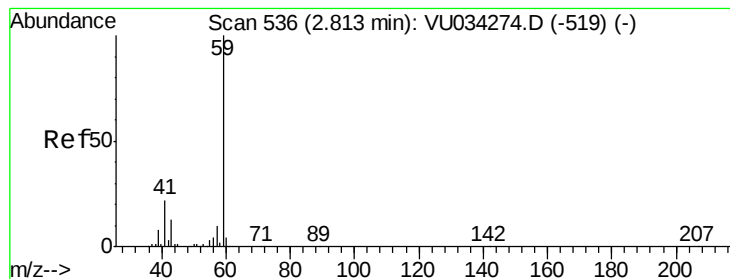
Tgt Ion: 74 Resp: 418

Ion Ratio Lower Upper

74 100

45 91.4 48.2 144.6





#11

Tert butyl alcohol

Concen: 5.327 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

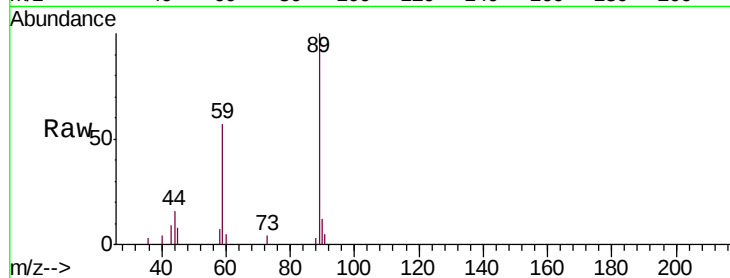
T12-G2-(0)

Tgt Ion: 59 Resp: 4125

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034424.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034424.D (-519) (-)

2.83

2000

1500

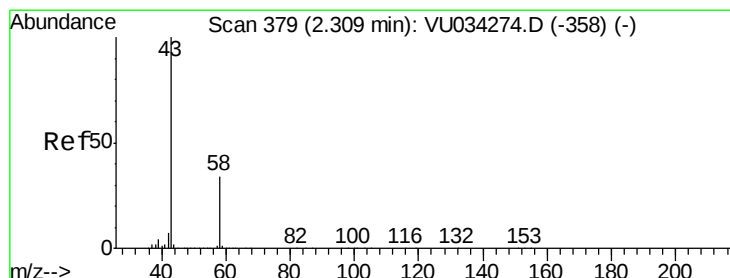
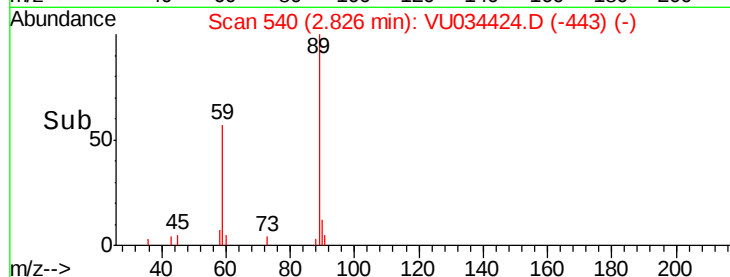
1000

500

0

2.75 2.80 2.85

Time-->



#16

Acetone

Concen: 6.978 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034424.D

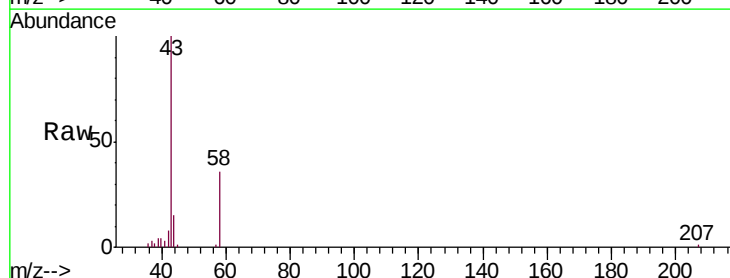
Acq: 09 Sep 2019 11:40

Tgt Ion: 43 Resp: 13236

Ion Ratio Lower Upper

43 100

58 37.3 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034424.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034424.D (-358) (-)

2.31

8000

6000

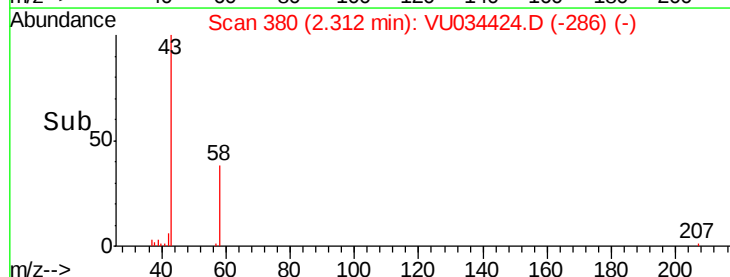
4000

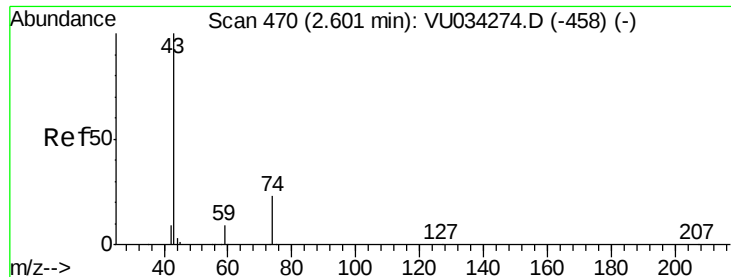
2000

0

2.25 2.30 2.35 2.40

Time-->

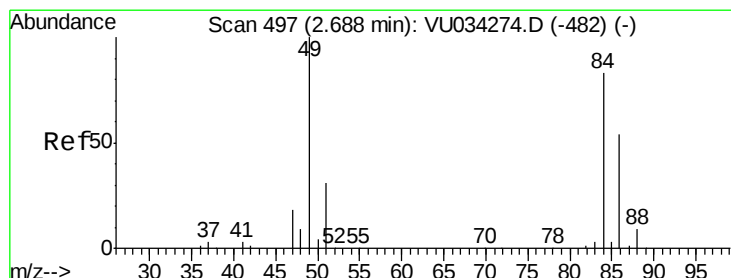
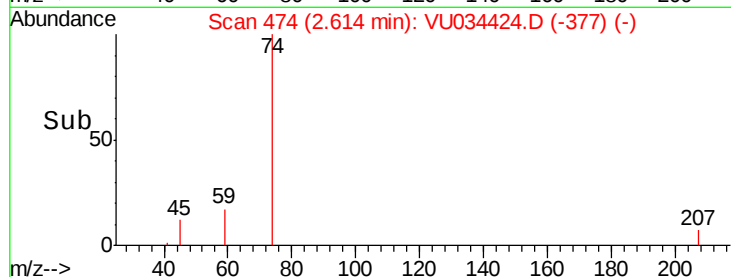
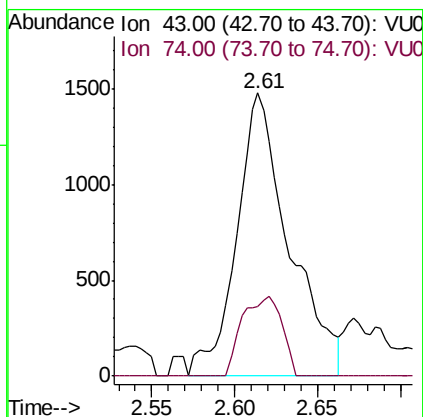
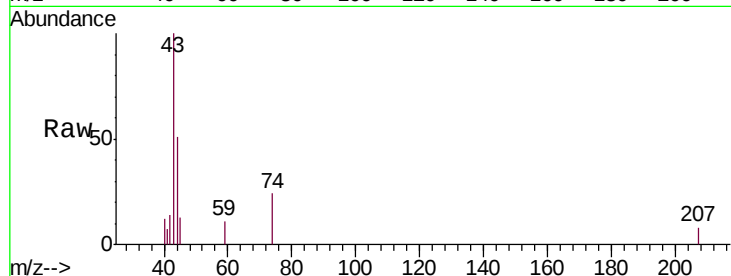




#18
Methyl Acetate
Concen: 0.702 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

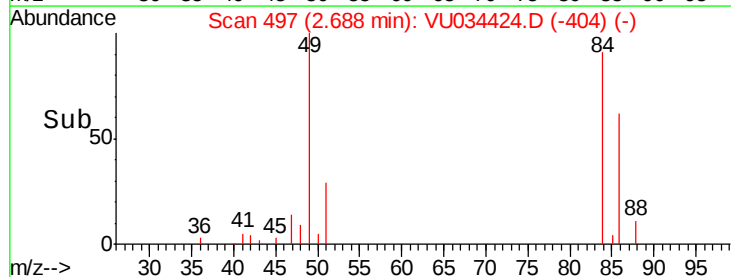
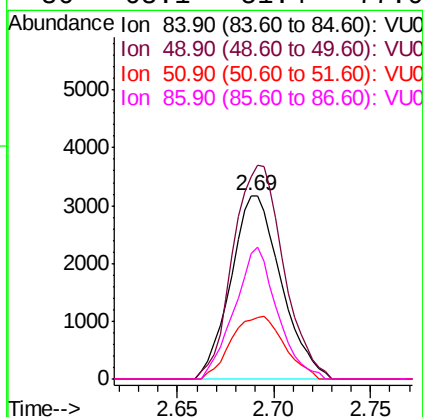
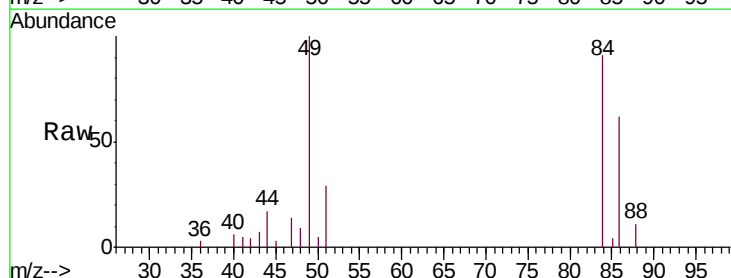
Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(0)

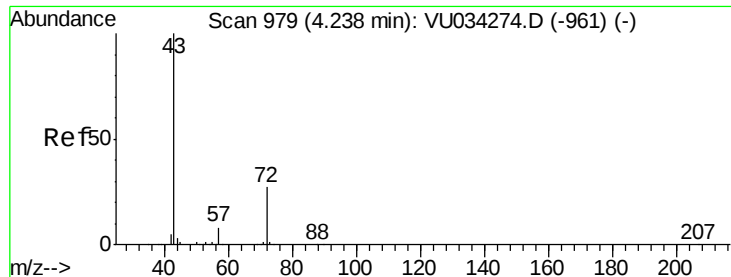
Tgt Ion: 43 Resp: 3238
Ion Ratio Lower Upper
43 100
74 21.4 18.9 28.3



#20
Methylene Chloride
Concen: 1.452 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

Tgt Ion: 84 Resp: 5717
Ion Ratio Lower Upper
84 100
49 110.2 96.0 144.0
51 31.9 30.0 45.0
86 68.1 51.4 77.0





#25

2-Butanone

Concen: 0.280 ug/l

RT: 4.29 min Scan# 994

Delta R.T. 0.05 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

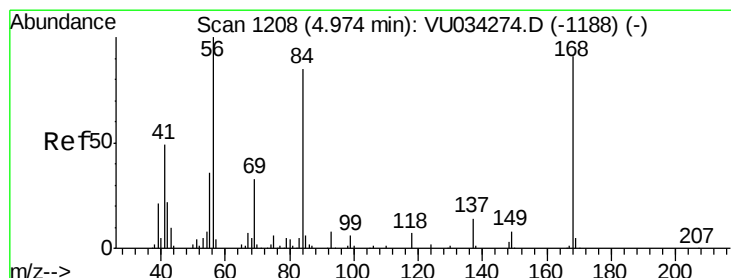
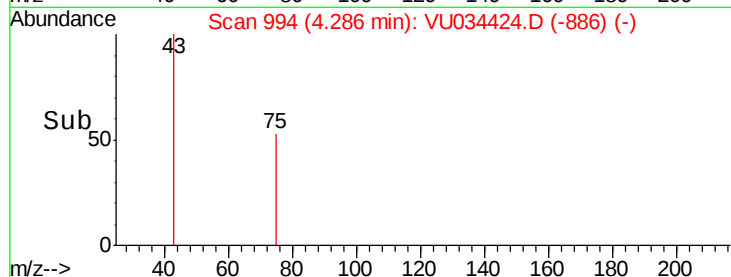
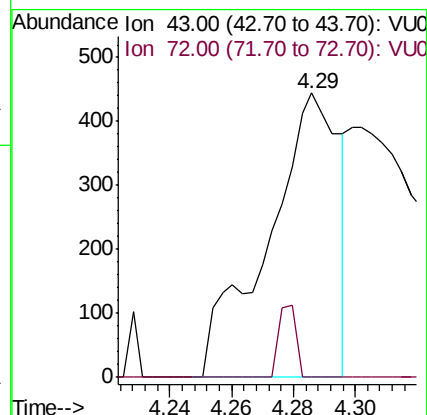
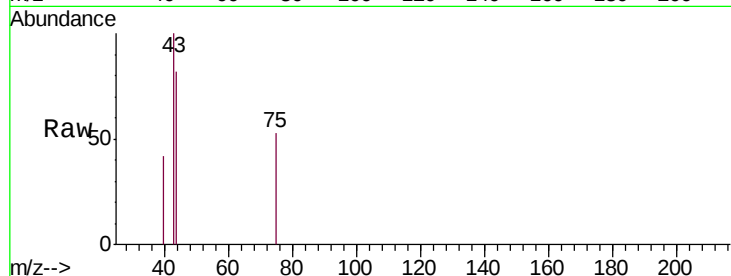
T12-G2-(0)

Tgt Ion: 43 Resp: 709

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.6#



#31

Cyclohexane

Concen: 0.894 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

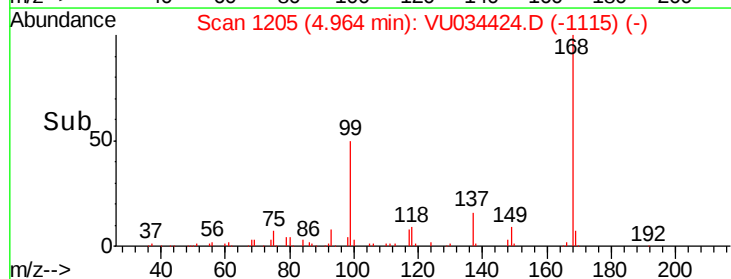
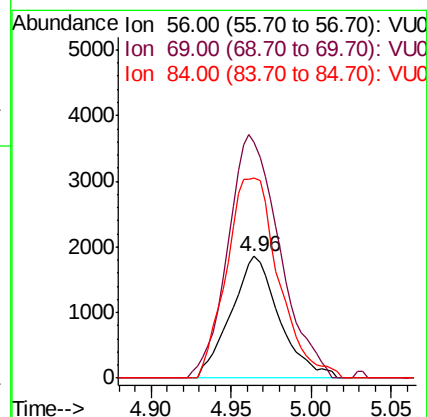
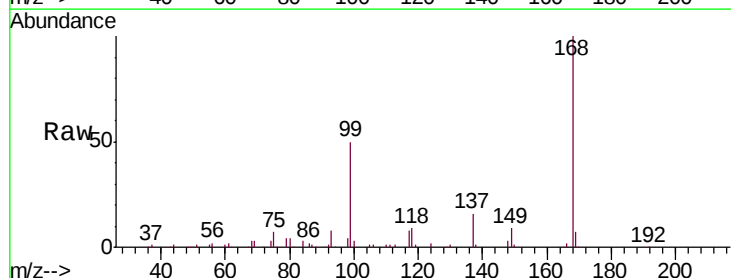
Tgt Ion: 56 Resp: 3838

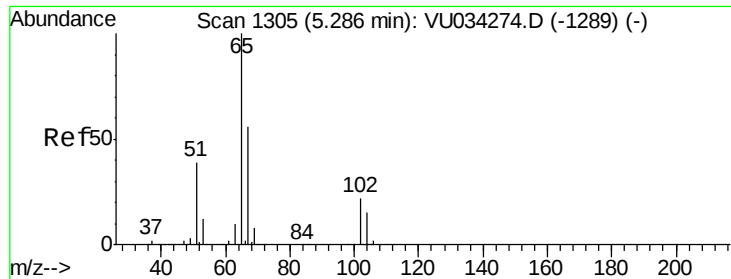
Ion Ratio Lower Upper

56 100

69 194.1 26.7 40.1#

84 164.3 68.2 102.4#





#33

1,2-Dichloroethane-d4

Concen: 55.064 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

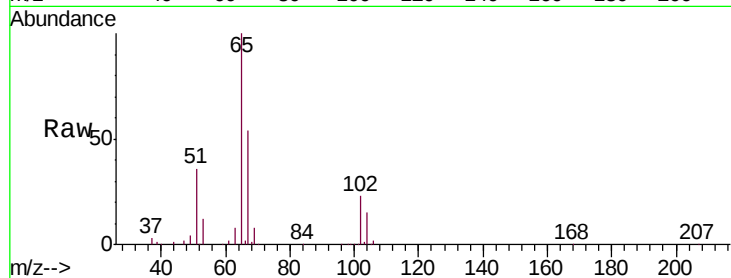
T12-G2-(0)

Tgt Ion: 65 Resp: 201836

Ion Ratio Lower Upper

65 100

67 54.9 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034424.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034424.D (-1289) (-)

5.29

100000

80000

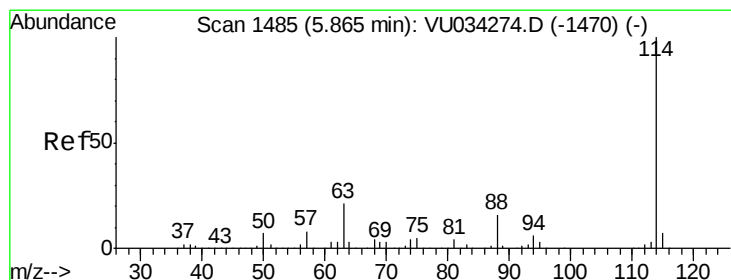
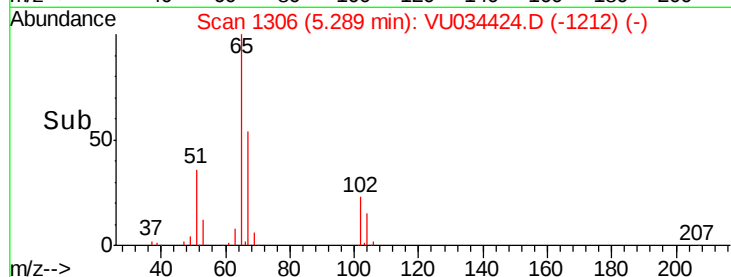
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

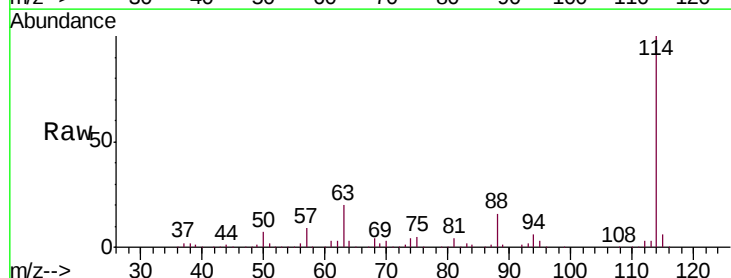
Tgt Ion: 114 Resp: 367307

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.4

88 15.6 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU034424.D (-1470) (-)

Ion 63.00 (62.70 to 63.70): VU034424.D (-1470) (-)

Ion 87.90 (87.60 to 88.60): VU034424.D (-1470) (-)

5.87

200000

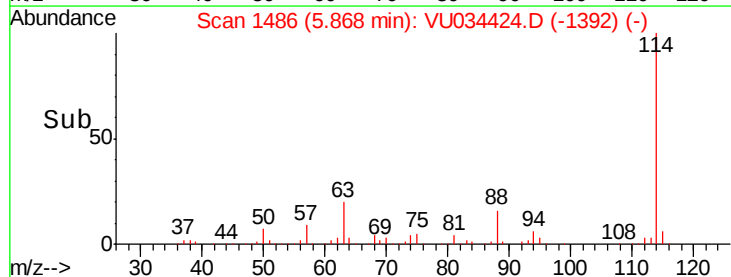
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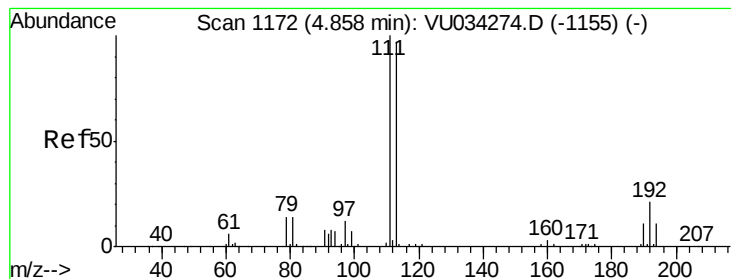
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 52.574 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

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T12-G2-(0)

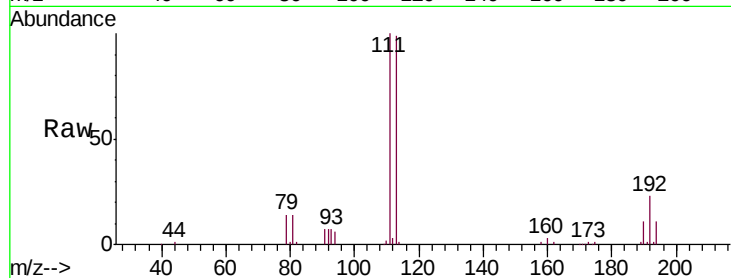
Tgt Ion:113 Resp: 179686

Ion Ratio Lower Upper

113 100

111 100.6 81.5 122.3

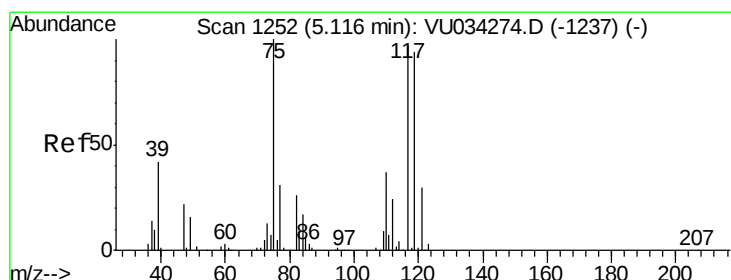
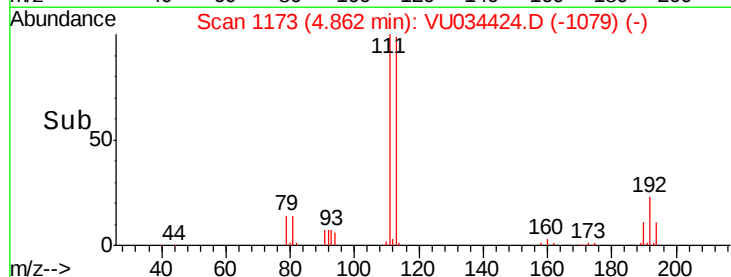
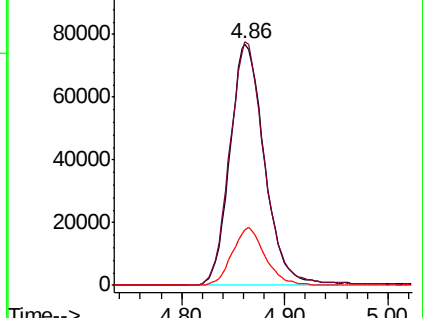
192 23.0 17.8 26.8



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: 4.104 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

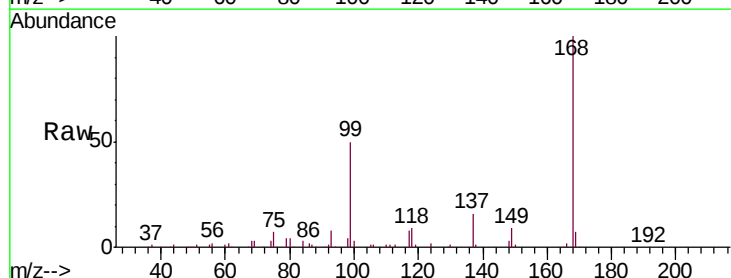
Tgt Ion: 75 Resp: 16350

Ion Ratio Lower Upper

75 100

110 8.1 18.3 54.9#

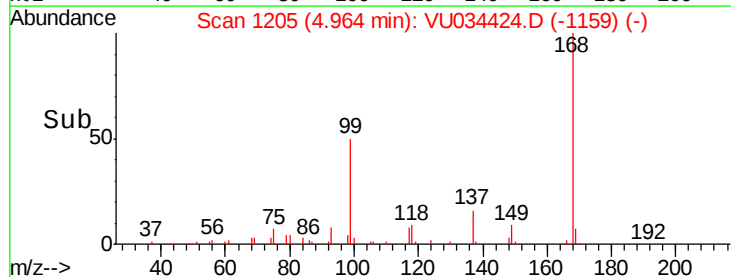
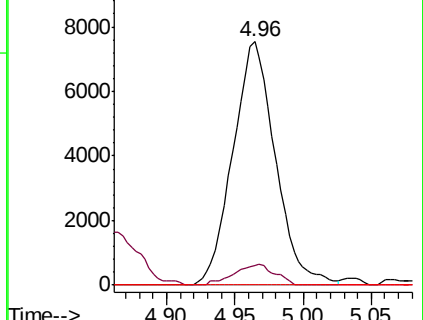
77 0.0 24.9 37.3#

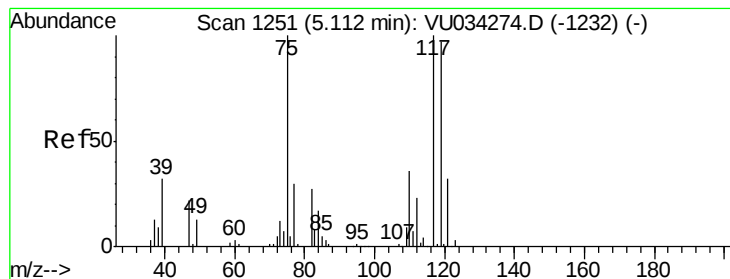


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.111 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

T12-G2-(0)

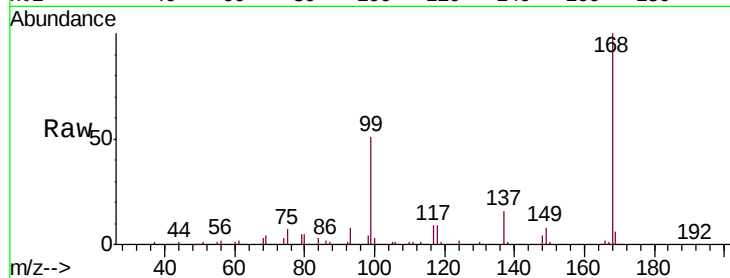
Tgt Ion:117 Resp: 21738

Ion Ratio Lower Upper

117 100

119 8.0 77.8 116.6#

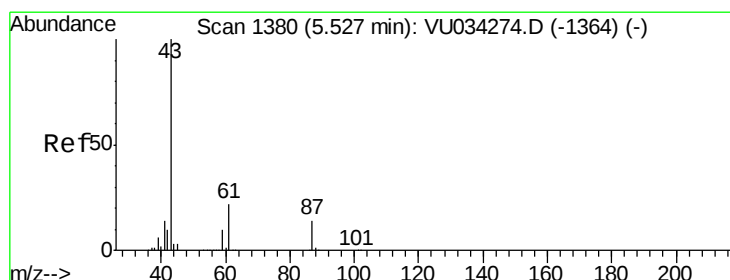
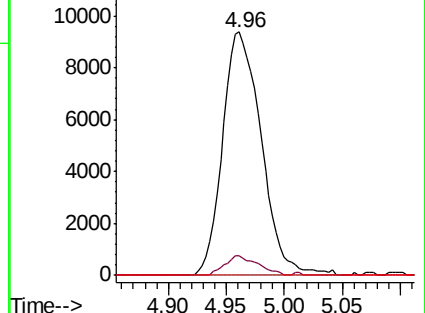
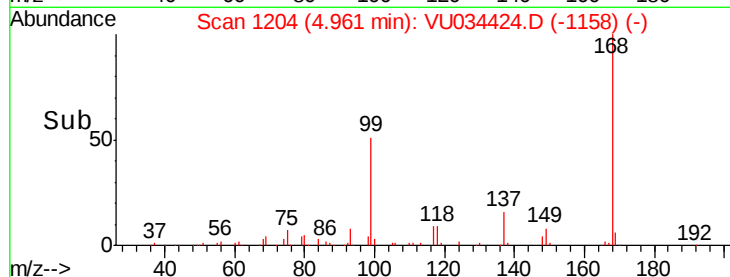
121 0.0 25.2 37.8#



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: 6.877 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

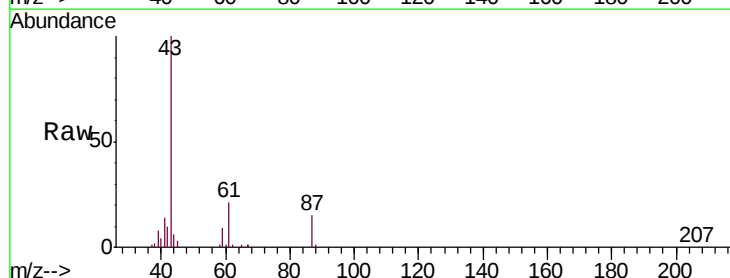
Tgt Ion: 43 Resp: 50525

Ion Ratio Lower Upper

43 100

61 21.6 17.1 25.7

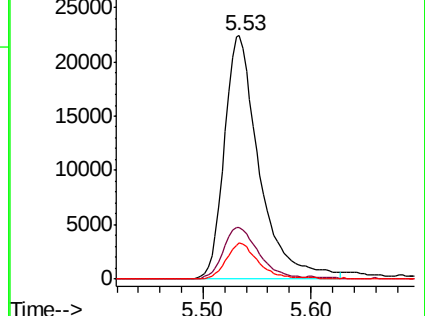
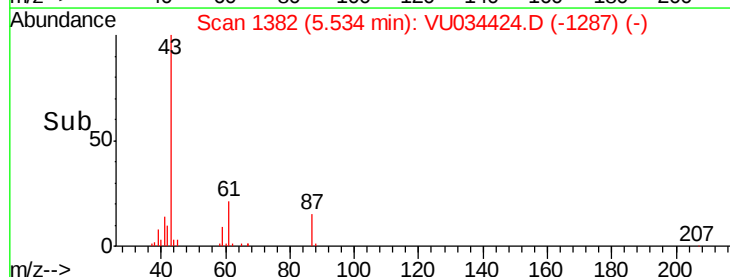
87 13.4 11.1 16.7

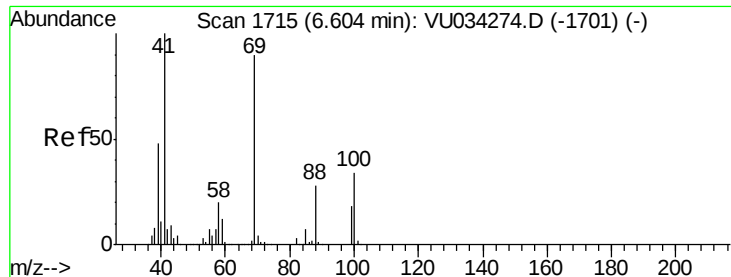


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

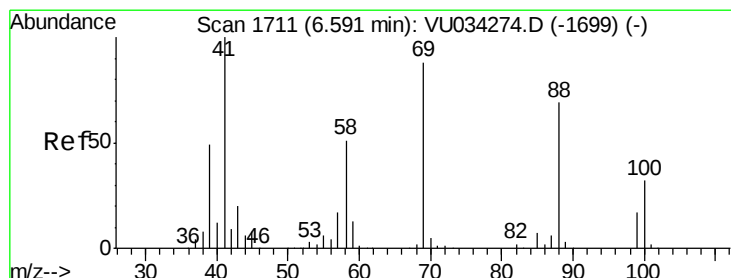
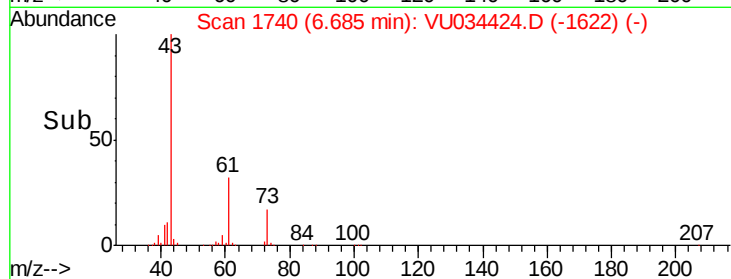
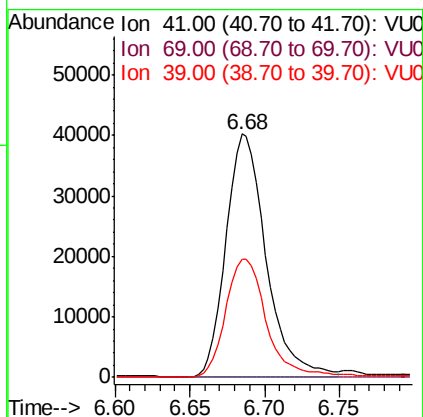
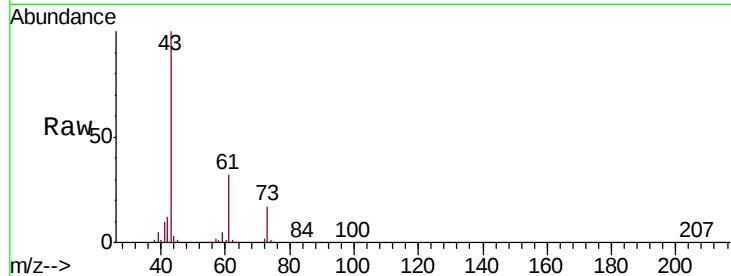




#48
Methyl methacrylate
Concen: 21.629 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

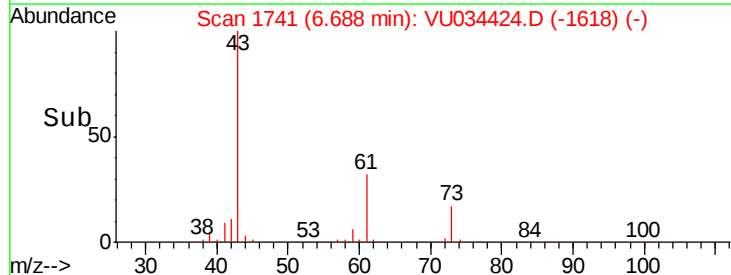
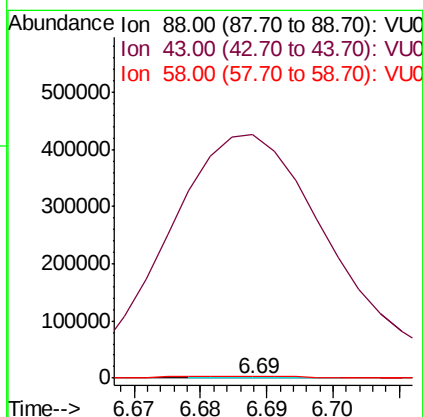
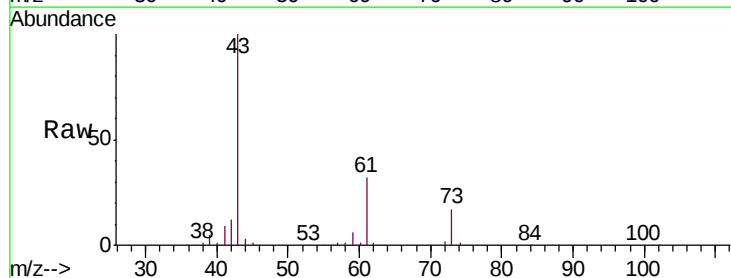
Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(0)

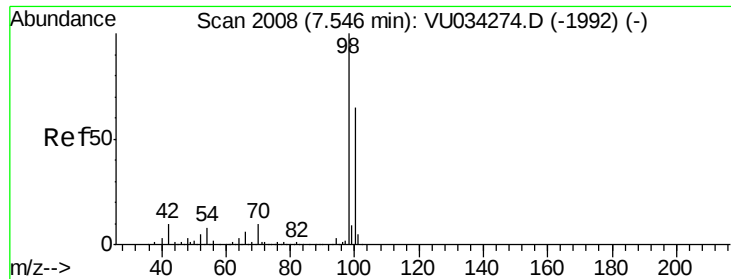
Tgt Ion: 41 Resp: 75476
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 50.0 38.6 58.0



#49
1,4-Dioxane
Concen: 1.352 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.10 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

Tgt Ion: 88 Resp: 103
Ion Ratio Lower Upper
88 100
43 771494.2 23.8 35.6#
58 5719.4 58.4 87.6#

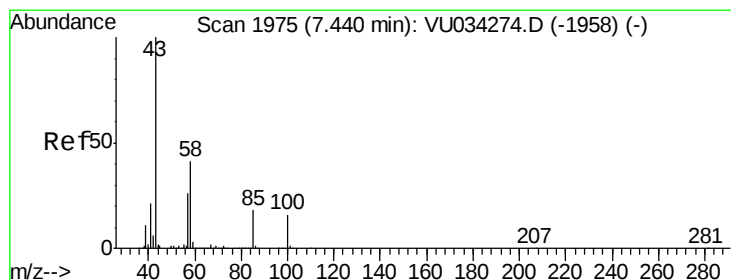
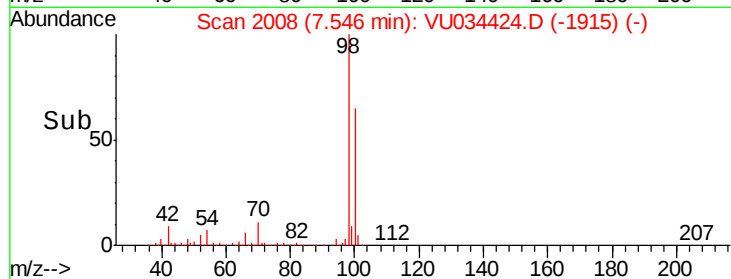
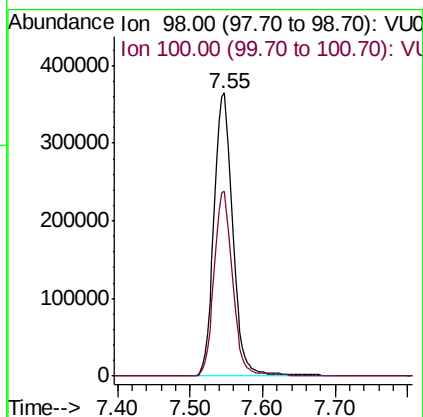
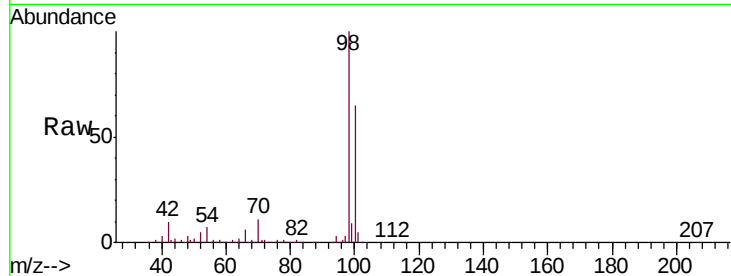




#50
Toluene-d8
Concen: 51.399 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

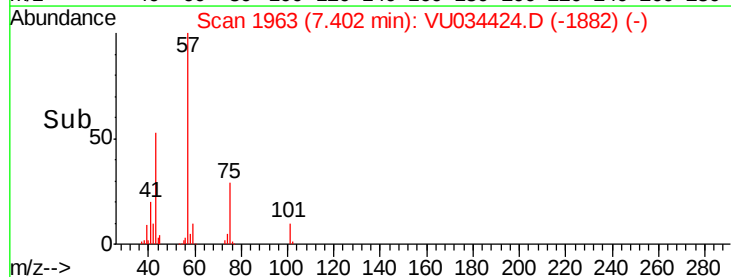
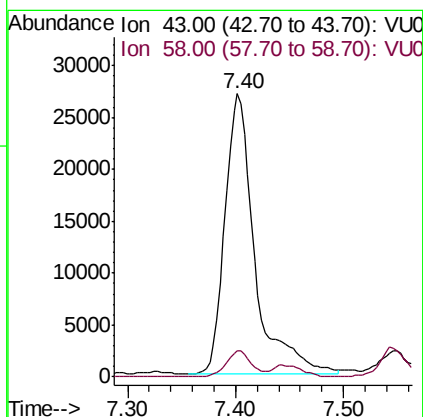
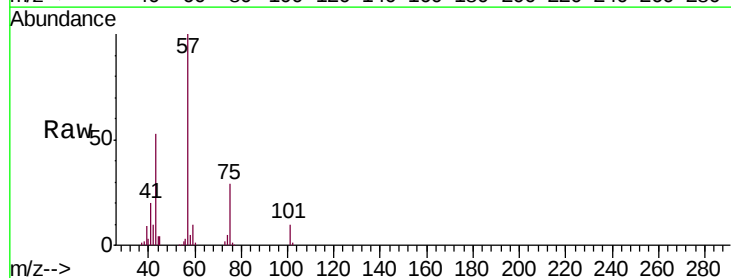
Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(0)

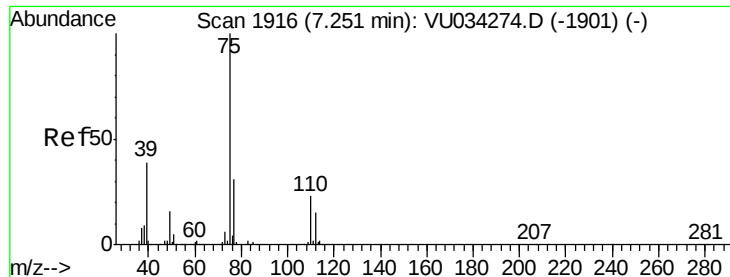
Tgt Ion: 98 Resp: 660006
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 10.285 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

Tgt Ion: 43 Resp: 52306
Ion Ratio Lower Upper
43 100
58 7.7 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.629 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

T12-G2-(0)

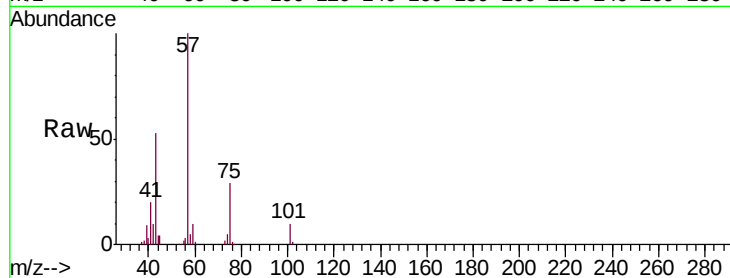
Tgt Ion: 75 Resp: 25572

Ion Ratio Lower Upper

75 100

77 0.8 25.1 37.7#

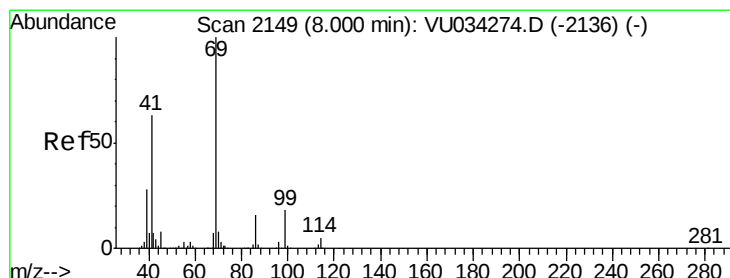
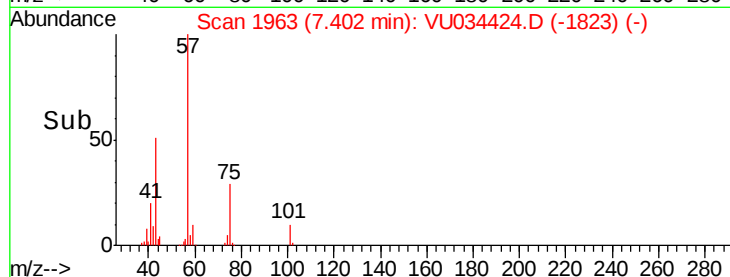
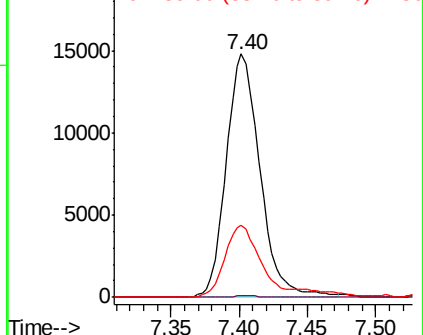
39 29.9 31.2 46.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#56

Ethyl methacrylate

Concen: 3.096 ug/l

RT: 7.97 min Scan# 2140

Delta R.T. -0.03 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

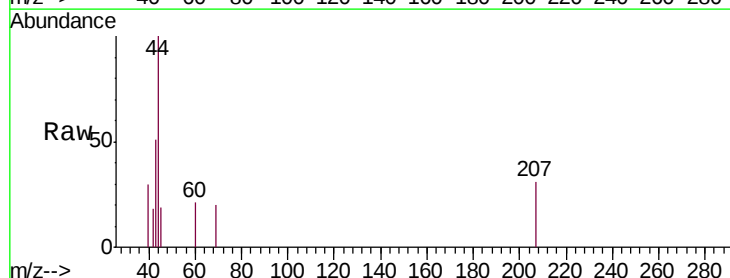
Tgt Ion: 69 Resp: 115

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

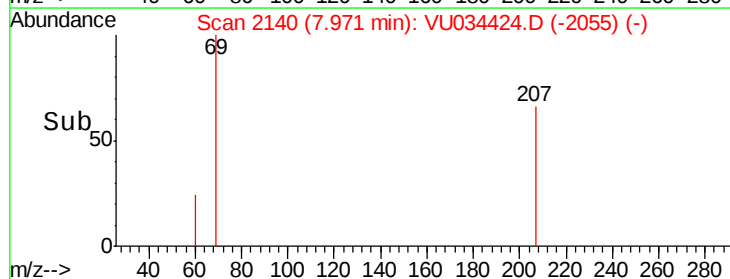
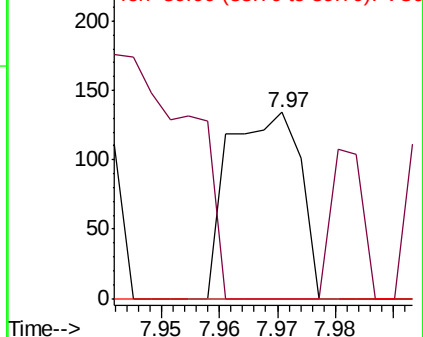
39 0.0 22.5 33.7#

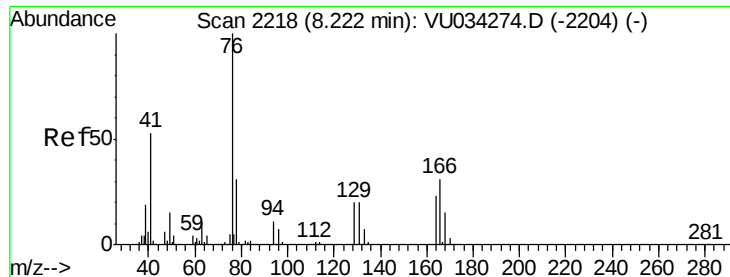


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 0.738 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

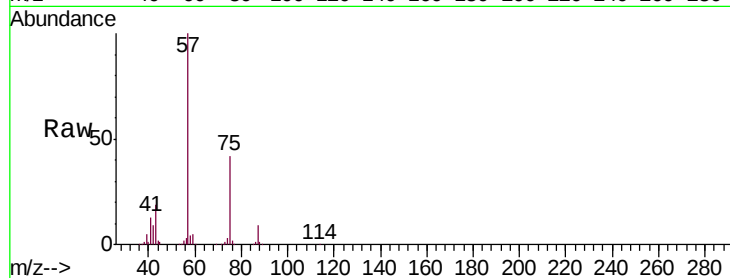
T12-G2-(0)

Tgt Ion: 76 Resp: 4402

Ion Ratio Lower Upper

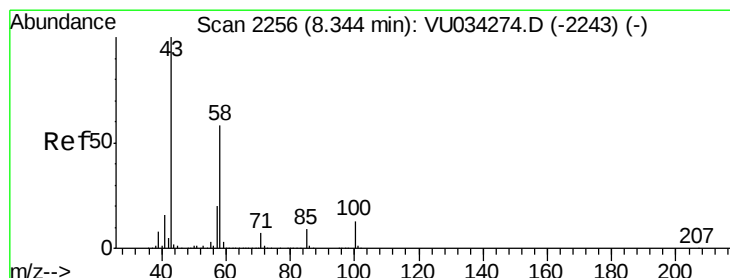
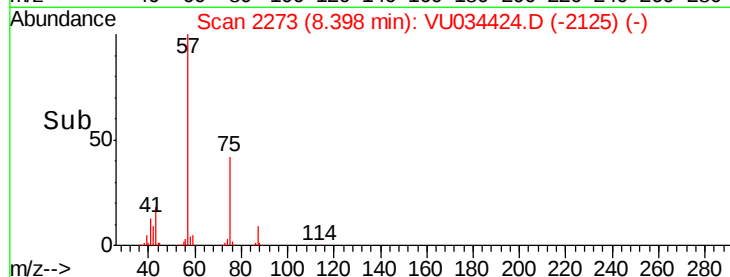
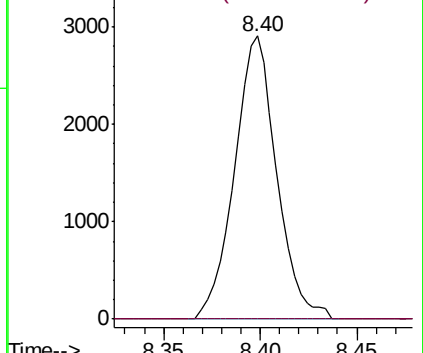
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034424.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034424.D (-2125) (-)



#59

2-Hexanone

Concen: 13.704 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034424.D

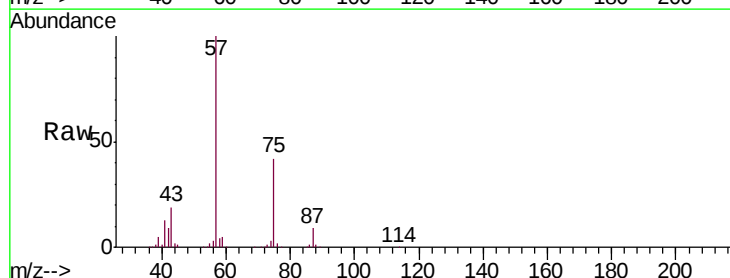
Acq: 09 Sep 2019 11:40

Tgt Ion: 43 Resp: 52067

Ion Ratio Lower Upper

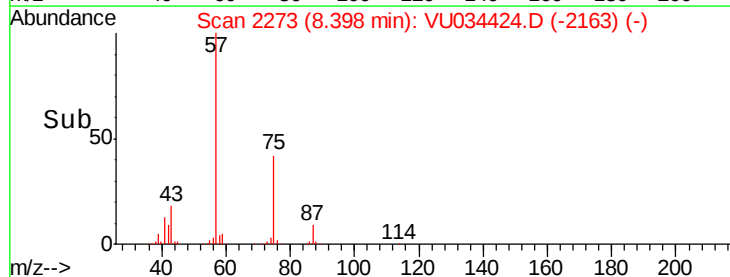
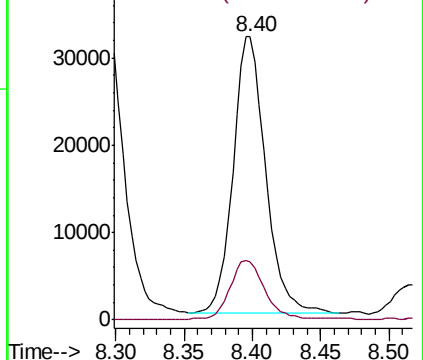
43 100

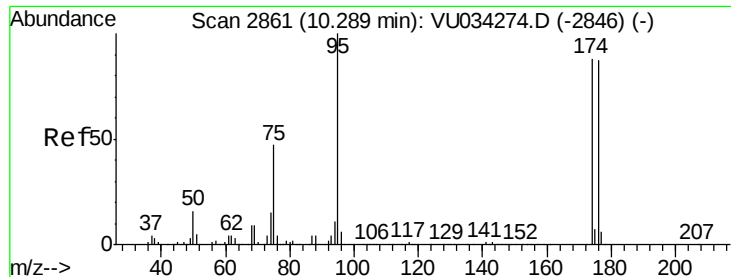
58 23.6 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034424.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034424.D (-2163) (-)

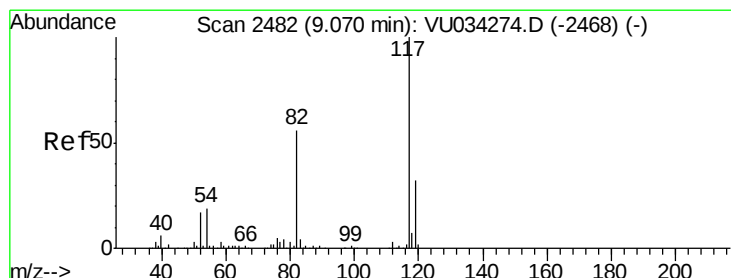
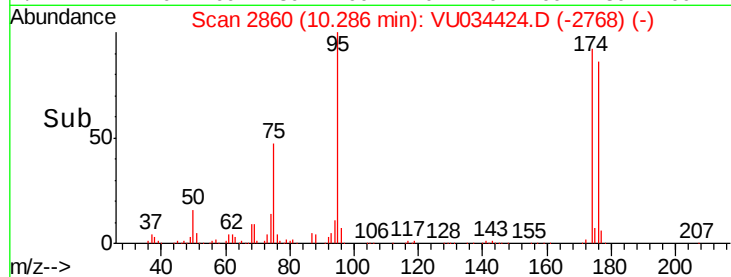
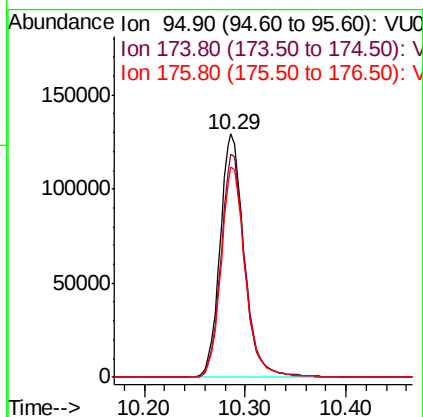
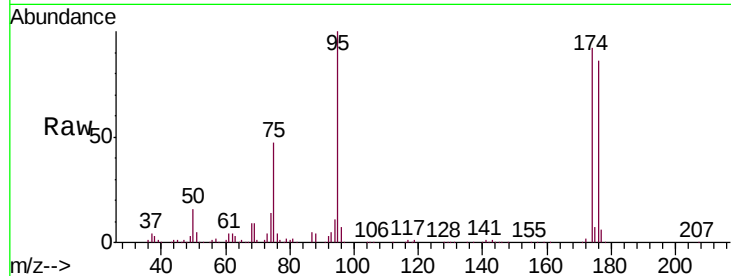




#62
4-Bromofluorobenzene
Concen: 43.447 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

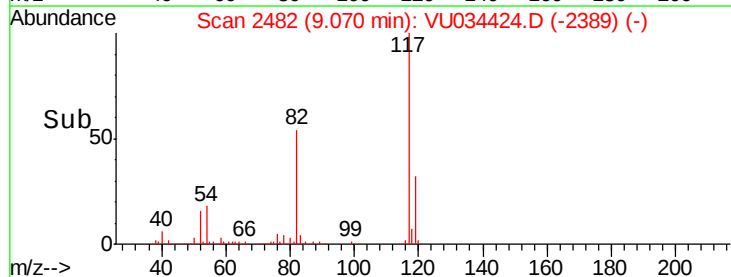
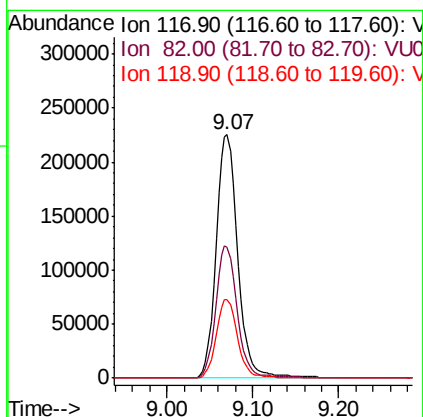
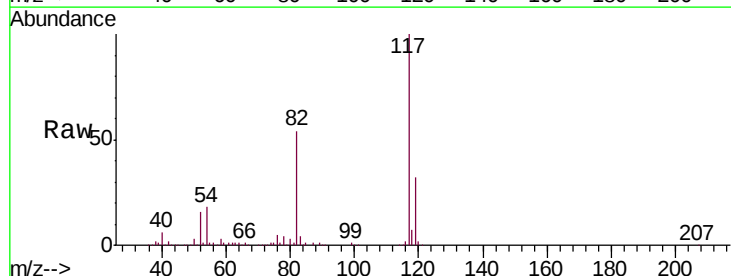
Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(0)

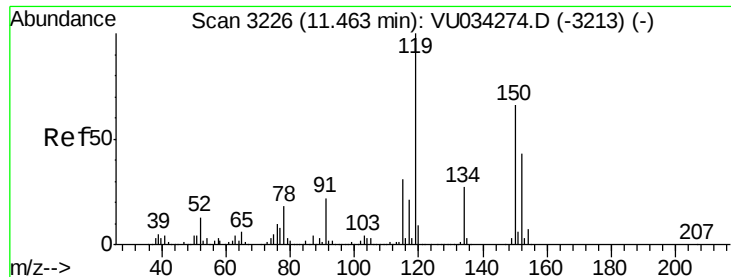
Tgt Ion: 95 Resp: 215398
Ion Ratio Lower Upper
95 100
174 92.5 0.0 175.2
176 86.9 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

Tgt Ion: 117 Resp: 394915
Ion Ratio Lower Upper
117 100
82 53.6 44.6 67.0
119 32.2 25.9 38.9



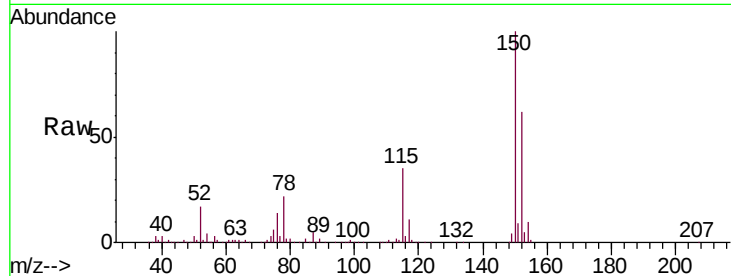


#72

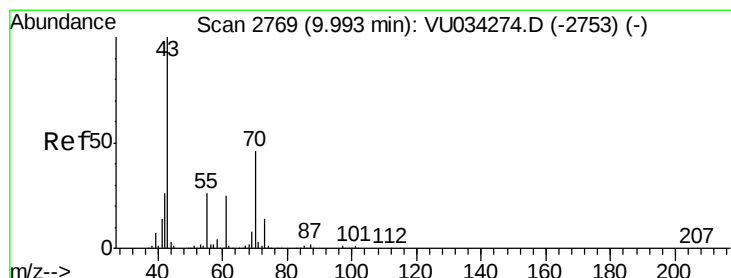
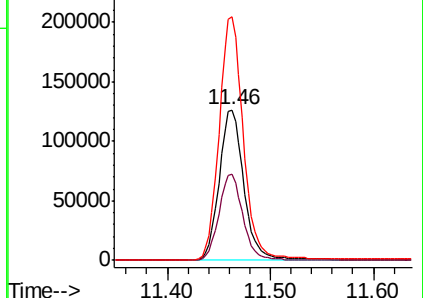
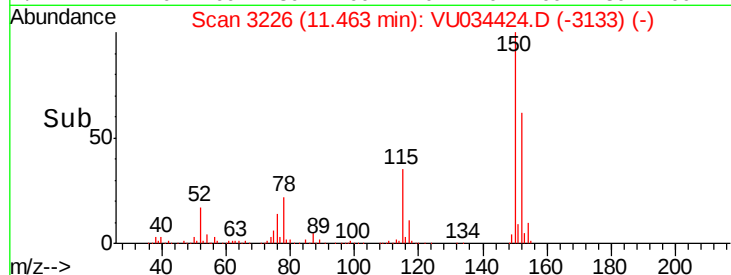
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(0)

Tgt Ion:152 Resp: 210921
Ion Ratio Lower Upper
152 100
115 55.3 39.1 117.3
150 158.8 0.0 345.4



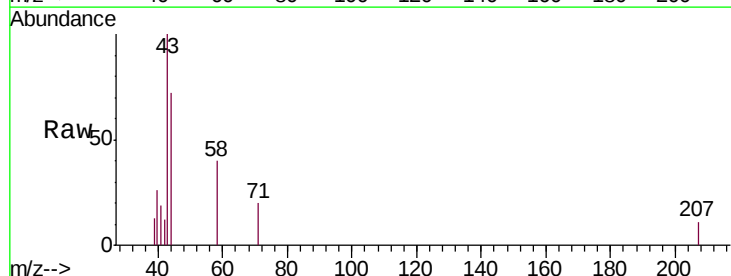
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



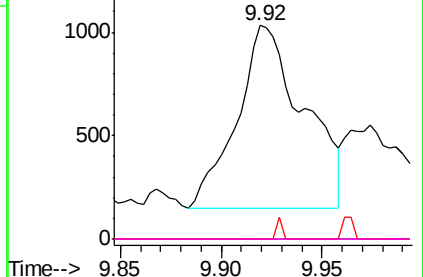
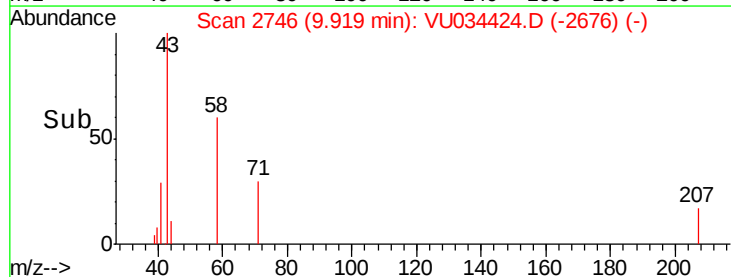
#74

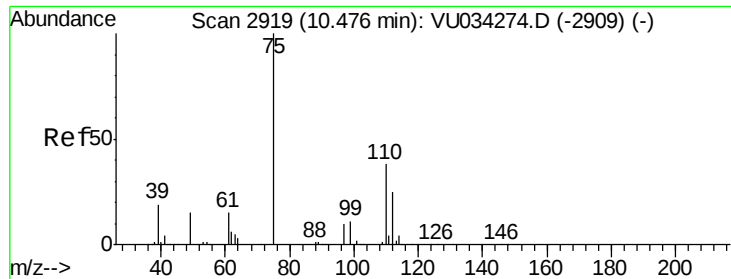
N-ethyl acetate
Concen: 0.370 ug/l
RT: 9.92 min Scan# 2746
Delta R.T. -0.07 min
Lab File: VU034424.D
Acq: 09 Sep 2019 11:40

Tgt Ion: 43 Resp: 2046
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#



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: 21.892 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

Instrument :

MSVOA_U

ClientSampleId :

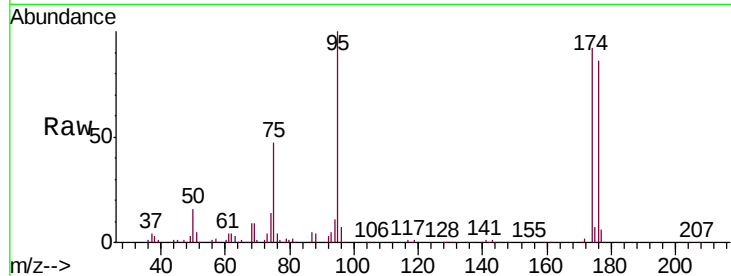
T12-G2-(0)

Tgt Ion: 75 Resp: 100793

Ion Ratio Lower Upper

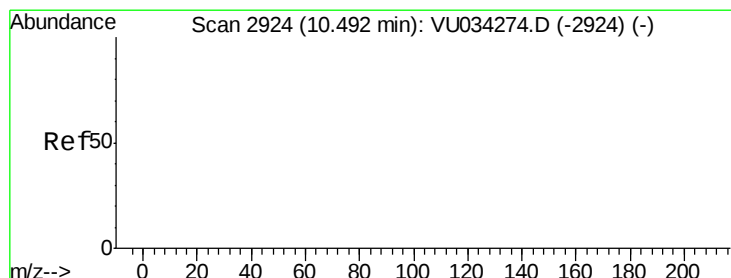
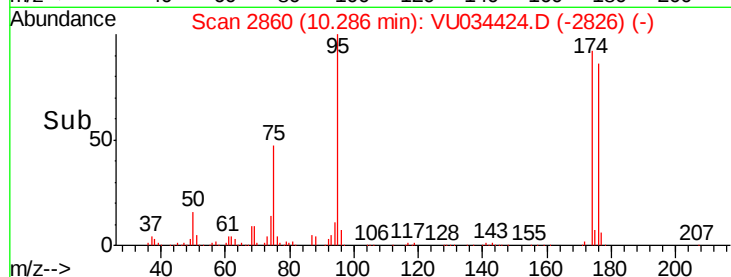
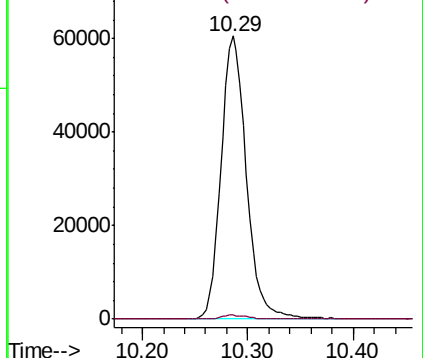
75 100

77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 73.622 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034424.D

Acq: 09 Sep 2019 11:40

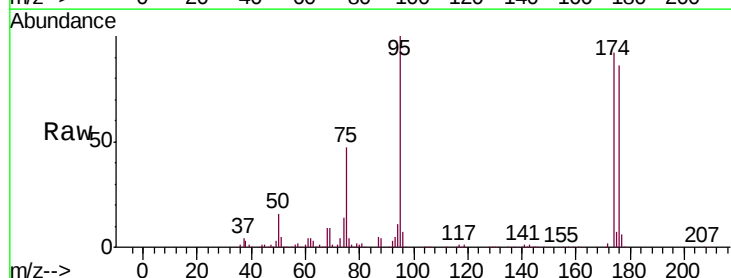
Tgt Ion: 75 Resp: 100793

Ion Ratio Lower Upper

75 100

53 0.2 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

