

Data File : VU034308.D
Acq On : 06 Sep 2019 00:50
Operator : JC/SP
Sample : K4579-26
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(0)

Quant Time: Sep 06 07:45:56 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	420070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	650909	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	660343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	327795	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	274486	43.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.38%	
35) Dibromofluoromethane	4.86	113	239098	39.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.96%	
50) Toluene-d8	7.55	98	937805	41.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.42%	
62) 4-Bromofluorobenzene	10.29	95	330920	37.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.34%	

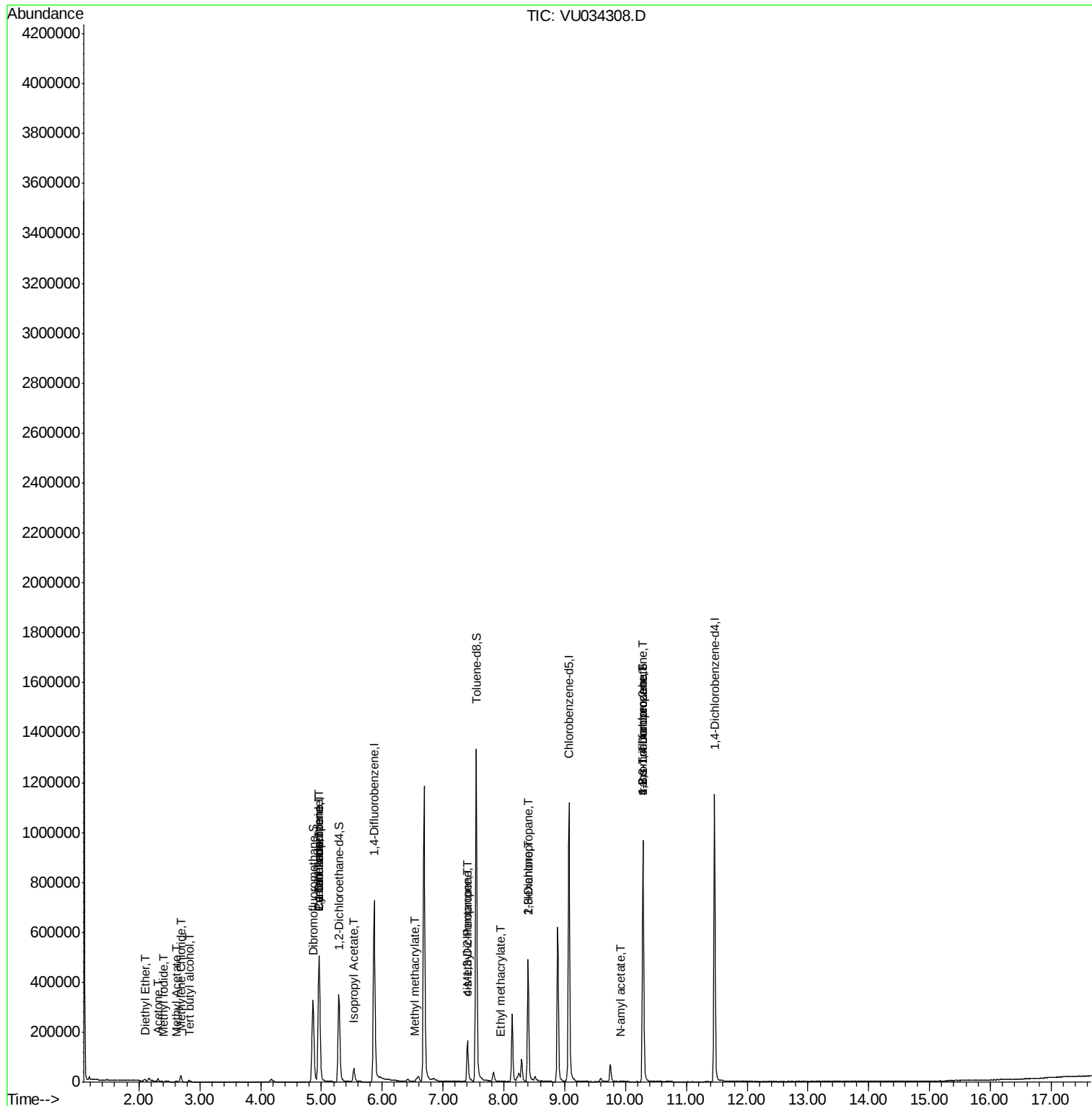
Target Compounds					Qvalue
3) Chloromethane	1.32	50	334	Below Cal	94
5) Bromomethane	1.63	94	684	Below Cal	# 57
6) Chloroethane	1.66	64	250	Below Cal	# 43
8) Diethyl Ether	2.10	74	1780	0.551 ug/l	90
10) Methyl Iodide	2.41	142	40	3.855 ug/l	# 43
11) Tert butyl alcohol	2.83	59	3918	2.918 ug/l	# 73
16) Acetone	2.31	43	11899	3.618 ug/l	97
18) Methyl Acetate	2.61	43	3006	0.376 ug/l	# 86
20) Methylene Chloride	2.69	84	11523	1.753 ug/l	98
31) Cyclohexane	4.96	56	7143	0.959 ug/l	# 1
36) 1,1-Dichloropropene	4.96	75	28720	4.068 ug/l	# 46
38) Carbon Tetrachloride	4.96	117	37318	4.951 ug/l	# 16
43) Isopropyl Acetate	5.53	43	65949	5.065 ug/l	99
48) Methyl methacrylate	6.53	41	4078	0.659 ug/l	# 13
51) 4-Methyl-2-Pentanone	7.40	43	62700	6.957 ug/l	# 45
54) cis-1,3-Dichloropropene	7.40	75	30270	3.092 ug/l	# 64
56) Ethyl methacrylate	7.95	69	122	3.088 ug/l	# 28
57) 1,3-Dichloropropane	8.40	76	4992	0.472 ug/l	# 43
59) 2-Hexanone	8.40	43	65649	9.751 ug/l	# 53
74) N-amyl acetate	9.92	43	2391	0.278 ug/l	# 44
76) 1,2,3-Trichloropropane	10.29	75	154177	21.548 ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.29	75	154177	72.463 ug/l	# 100

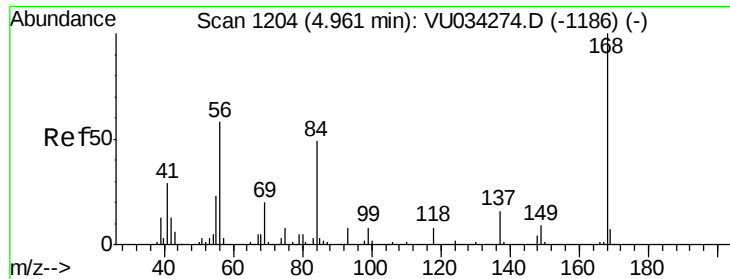
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

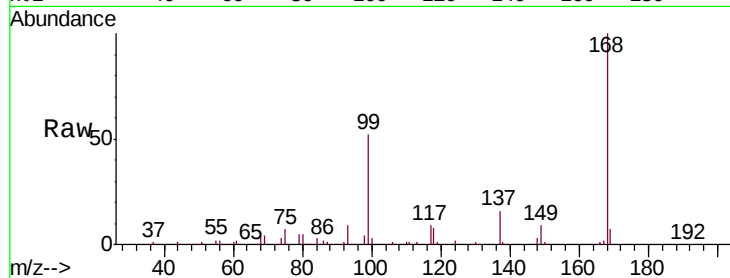
PAR-12-B1-(0)

Tgt Ion:168 Resp: 420070

Ion Ratio Lower Upper

168 100

99 52.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

200000

150000

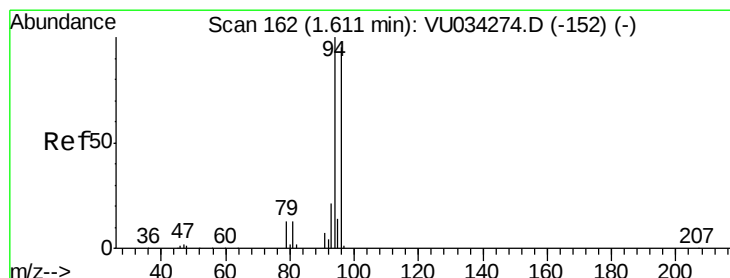
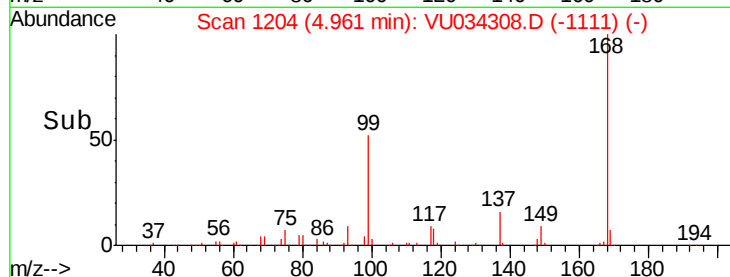
100000

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: VU034308.D

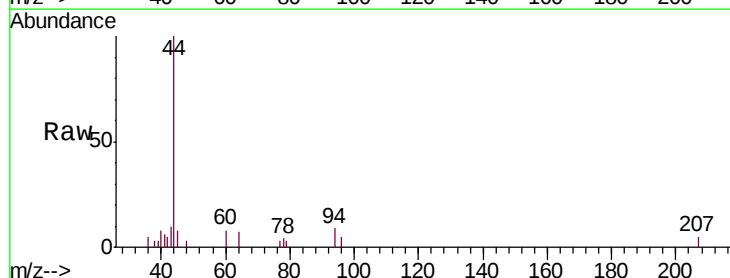
Acq: 06 Sep 2019 00:50

Tgt Ion: 94 Resp: 684

Ion Ratio Lower Upper

94 100

96 52.7 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

400

300

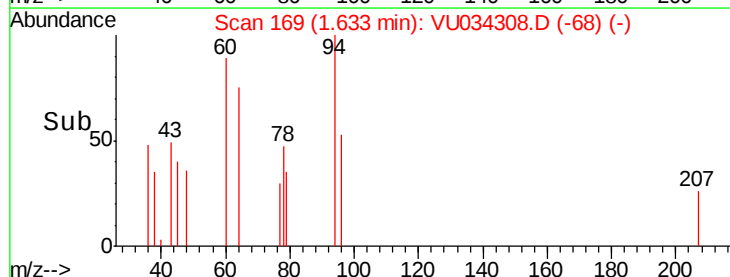
200

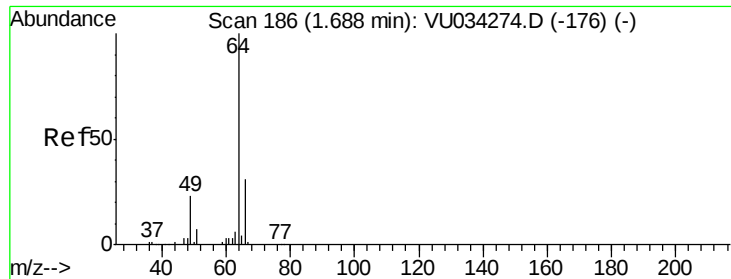
100

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 178

Delta R.T. -0.03 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

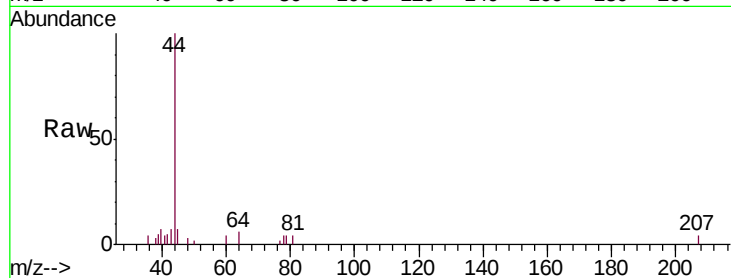
PAR-12-B1-(0)

Tgt Ion: 64 Resp: 250

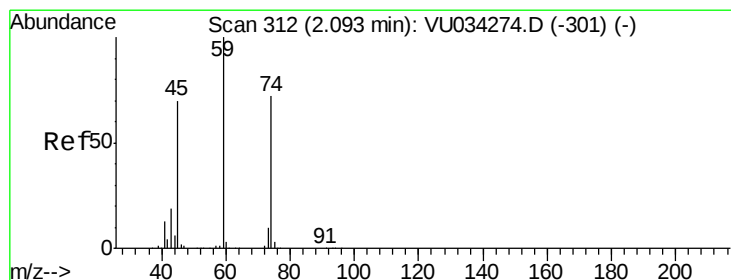
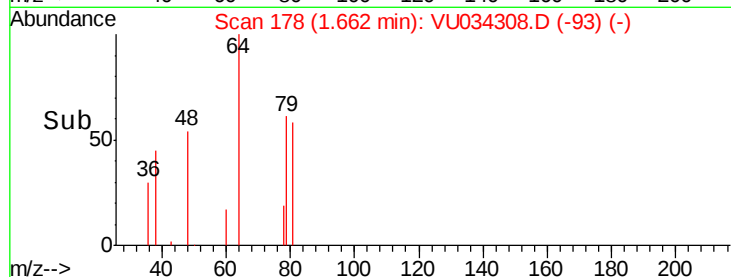
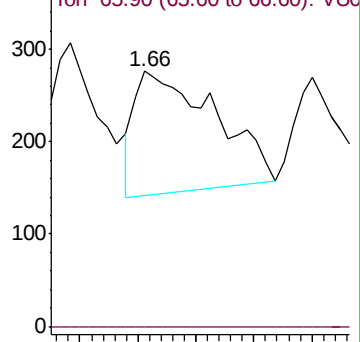
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034308.D (-176) (-)



#8

Diethyl Ether

Concen: 0.551 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034308.D

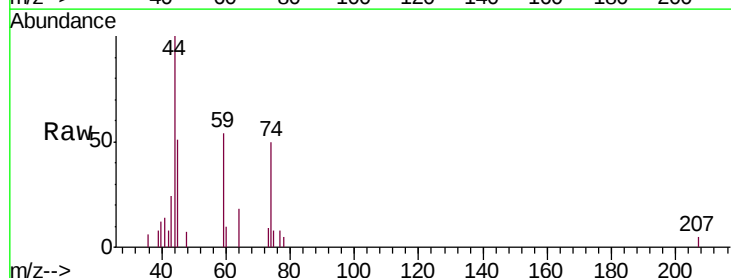
Acq: 06 Sep 2019 00:50

Tgt Ion: 74 Resp: 1780

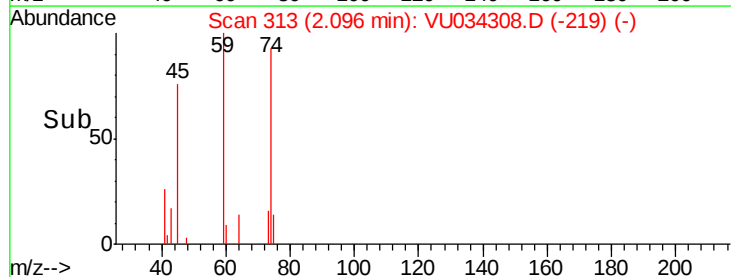
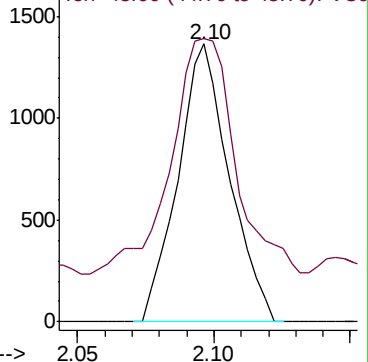
Ion Ratio Lower Upper

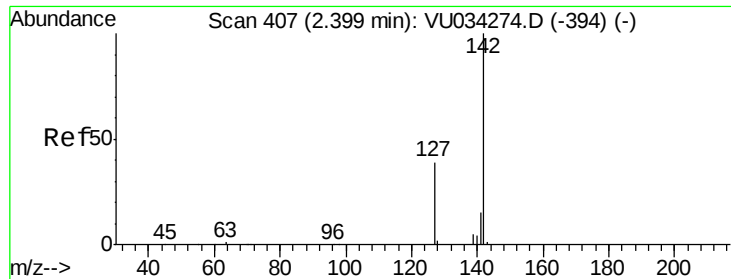
74 100

45 106.2 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VU034308.D (-301) (-)

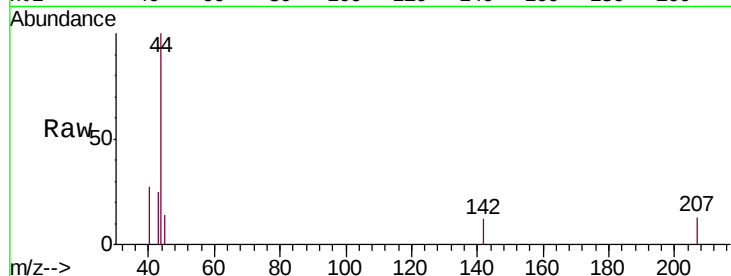




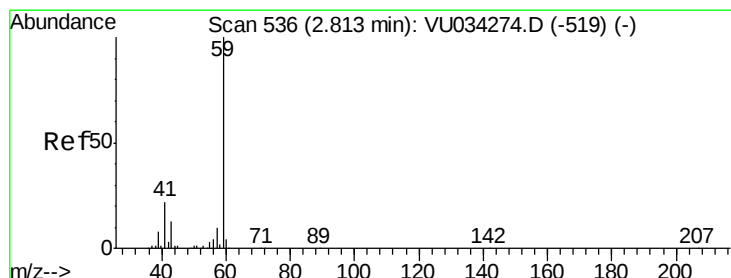
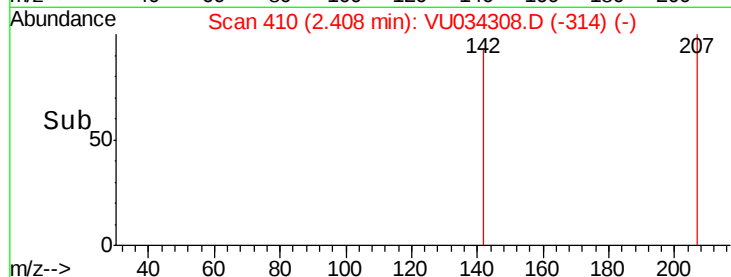
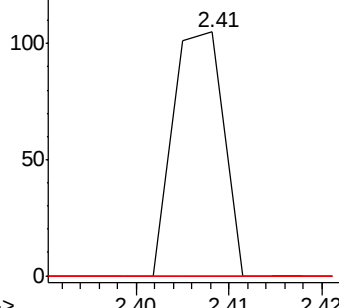
#10
Methyl Iodide
Concen: 3.855 ug/l
RT: 2.41 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU034308.D
Acq: 06 Sep 2019 00:50

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(0)

Tgt Ion: 142 Resp: 40
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#

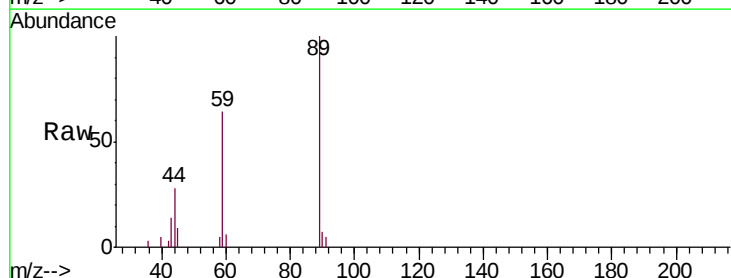


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

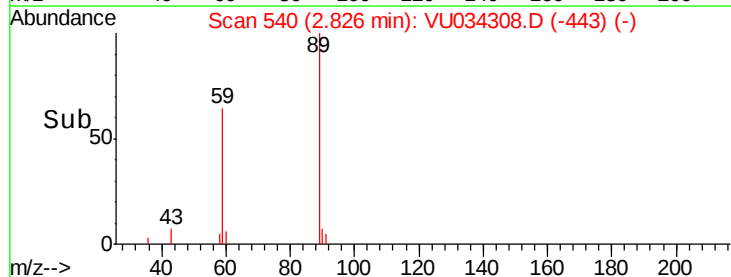
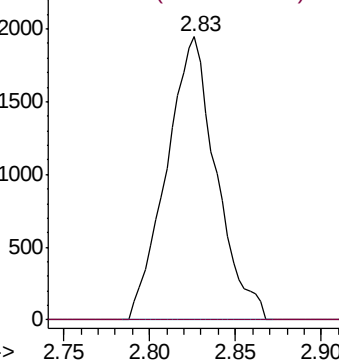


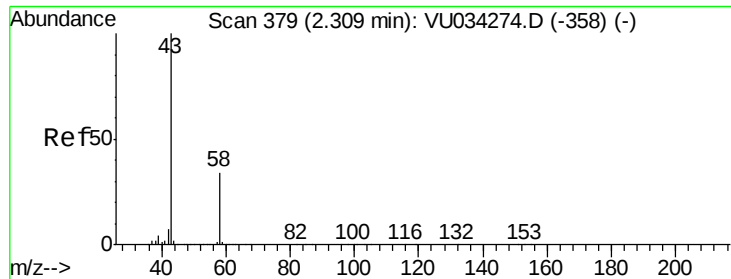
#11
Tert butyl alcohol
Concen: 2.918 ug/l
RT: 2.83 min Scan# 540
Delta R.T. 0.01 min
Lab File: VU034308.D
Acq: 06 Sep 2019 00:50

Tgt Ion: 59 Resp: 3918
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 3.618 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

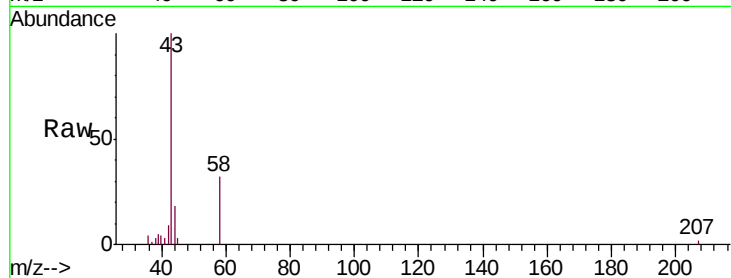
PAR-12-B1-(0)

Tgt Ion: 43 Resp: 11899

Ion Ratio Lower Upper

43 100

58 32.5 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034308.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034308.D (-380) (-)

2.31

8000

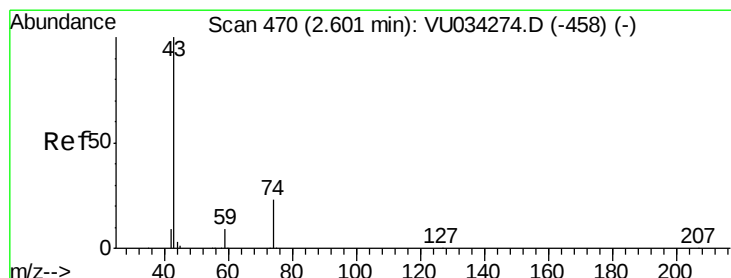
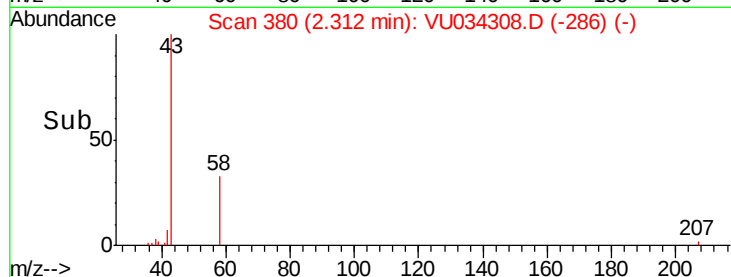
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 0.376 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.01 min

Lab File: VU034308.D

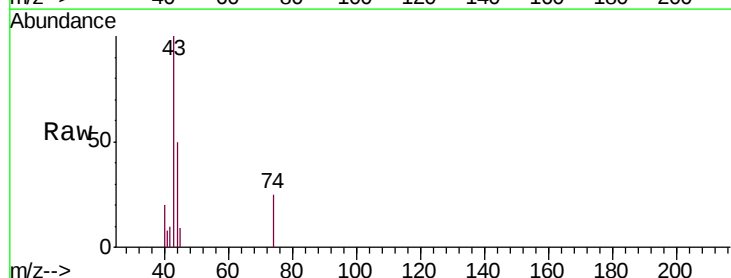
Acq: 06 Sep 2019 00:50

Tgt Ion: 43 Resp: 3006

Ion Ratio Lower Upper

43 100

74 17.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034308.D (-474) (-)

Ion 74.00 (73.70 to 74.70): VU034308.D (-474) (-)

2.61

2000

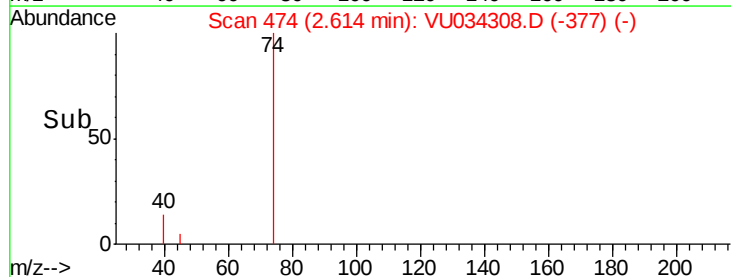
1500

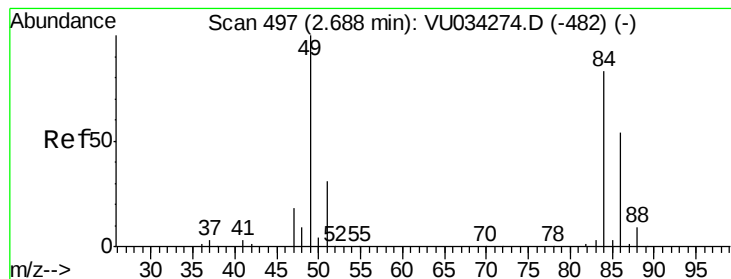
1000

500

0

Time-->





#20

Methylene Chloride

Concen: 1.753 ug/l

RT: 2.69 min Scan# 497

Delta R.T. -0.00 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(0)

Tgt Ion: 84 Resp: 11523

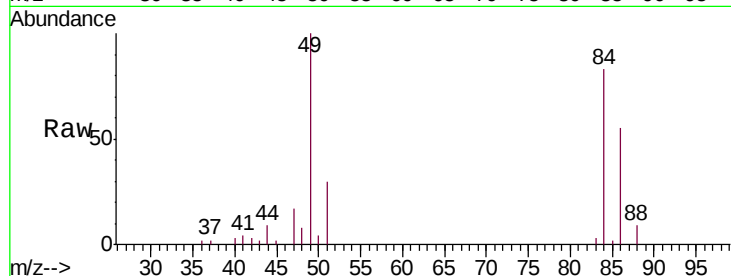
Ion Ratio Lower Upper

84 100

49 120.8 96.0 144.0

51 36.3 30.0 45.0

86 66.4 51.4 77.0

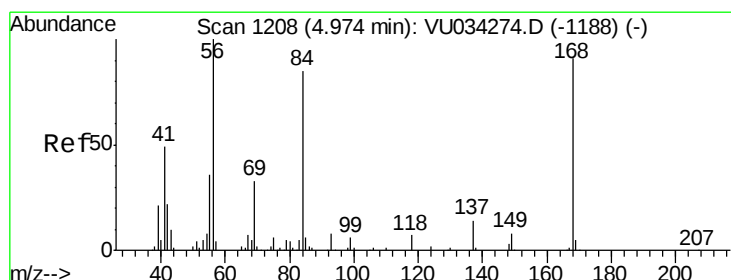
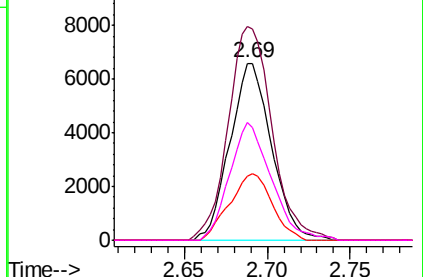
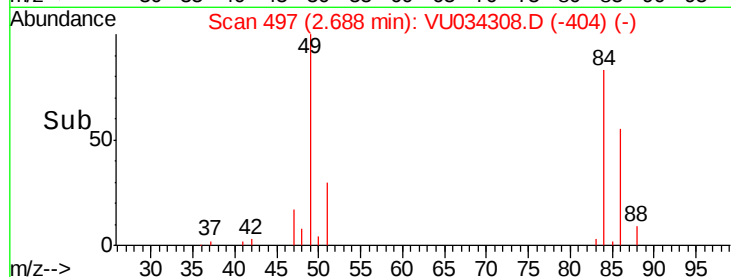


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: 0.959 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

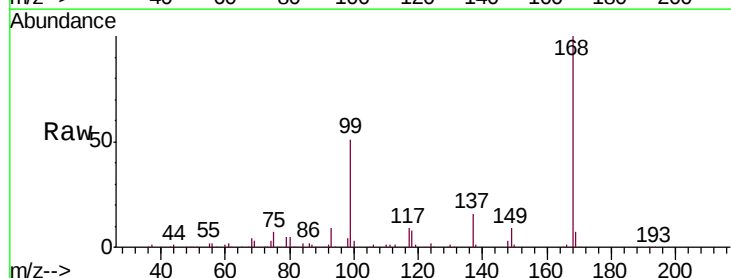
Tgt Ion: 56 Resp: 7143

Ion Ratio Lower Upper

56 100

69 195.5 26.7 40.1#

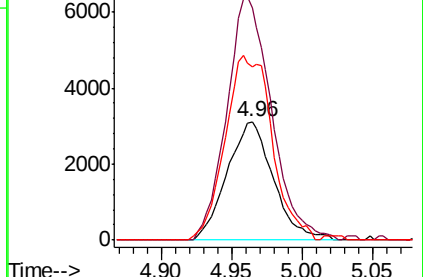
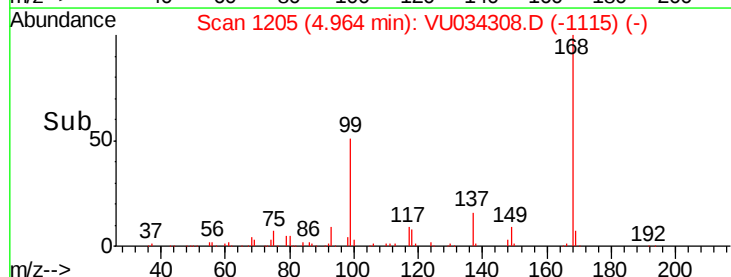
84 145.6 68.2 102.4#

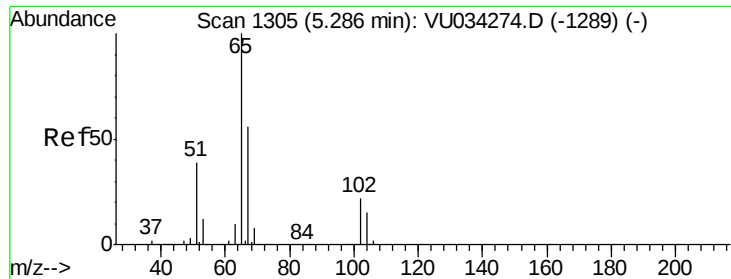


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

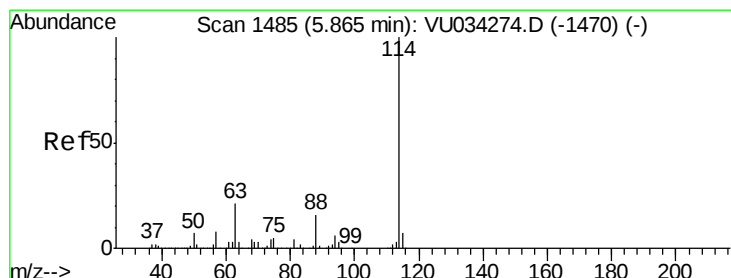
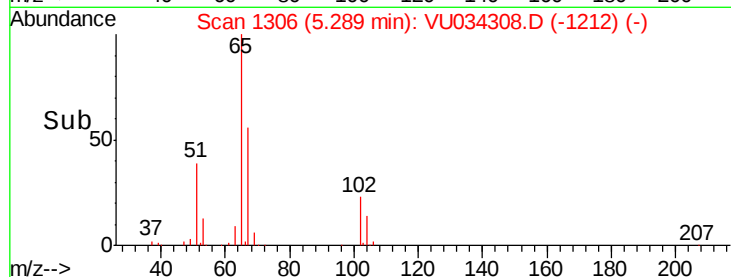
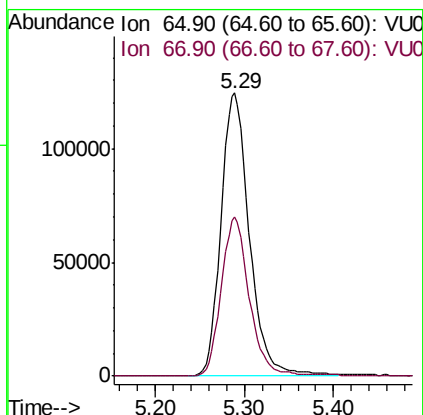
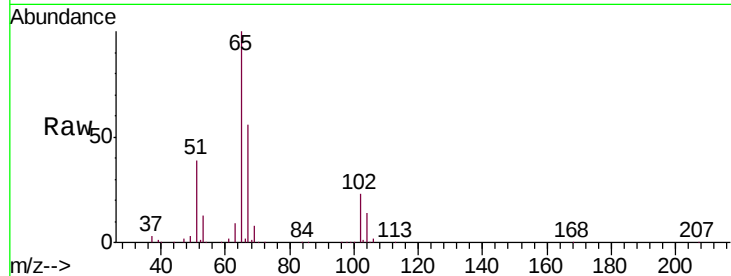




#33
 1,2-Dichloroethane-d4
 Concen: 43.187 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034308.D
 Acq: 06 Sep 2019 00:50

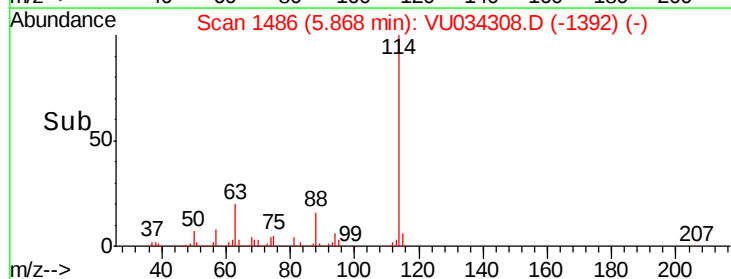
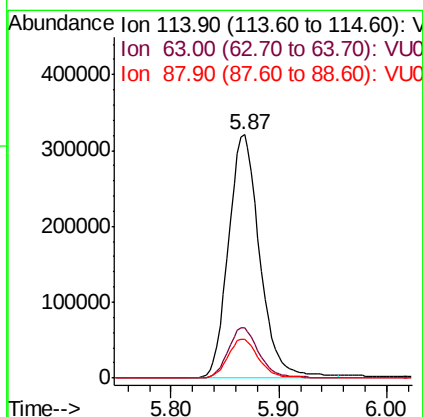
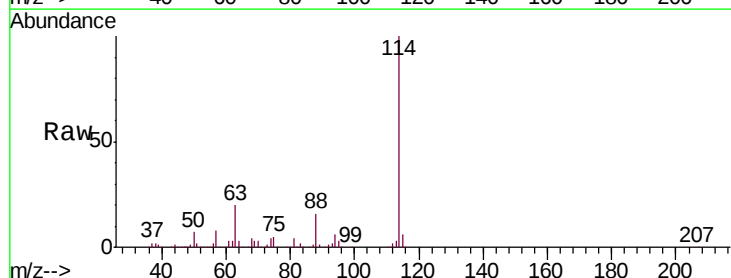
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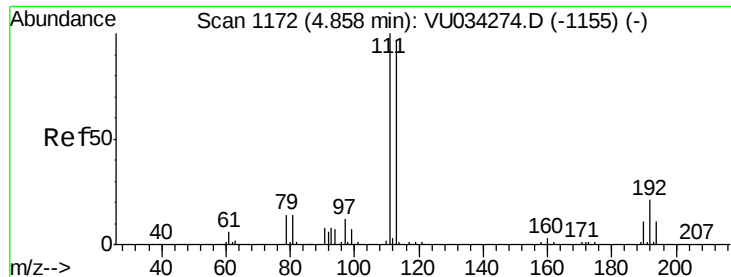
Tgt Ion: 65 Resp: 274486
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034308.D
 Acq: 06 Sep 2019 00:50

Tgt Ion: 114 Resp: 650909
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.4
 88 16.1 0.0 32.4

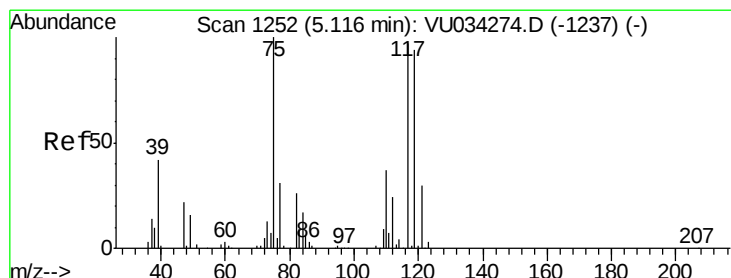
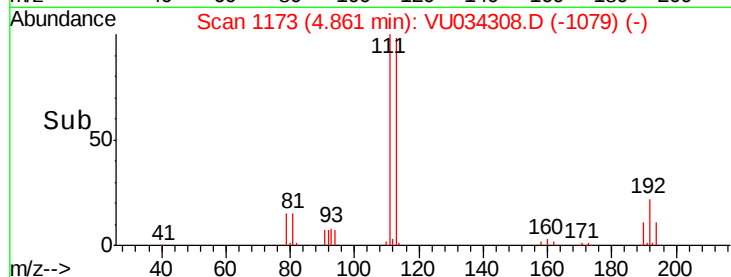
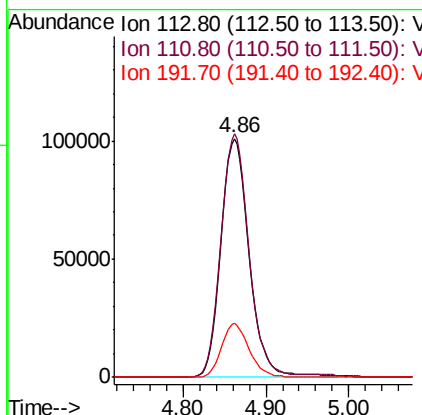
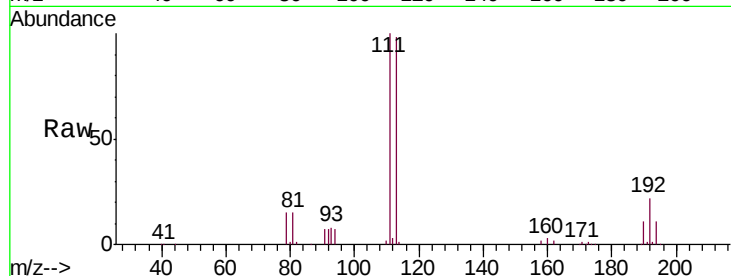




#35
 Dibromofluoromethane
 Concen: 39.476 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034308.D
 Acq: 06 Sep 2019 00:50

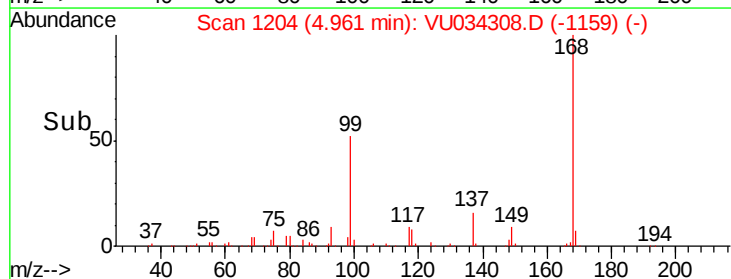
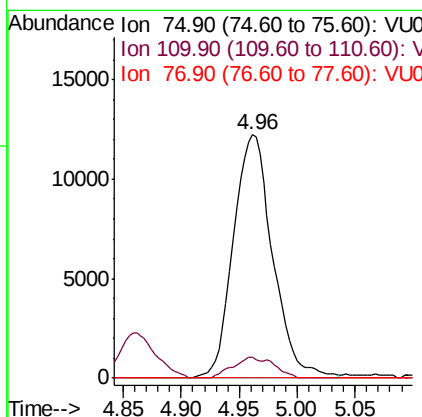
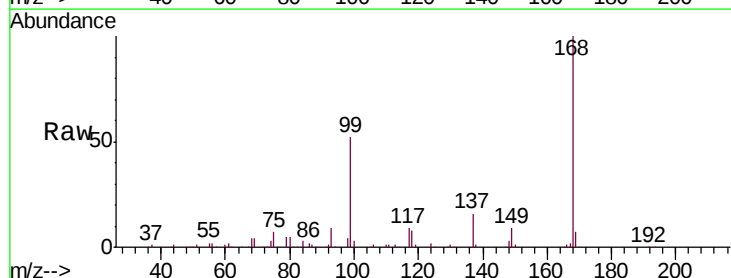
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B1-(0)

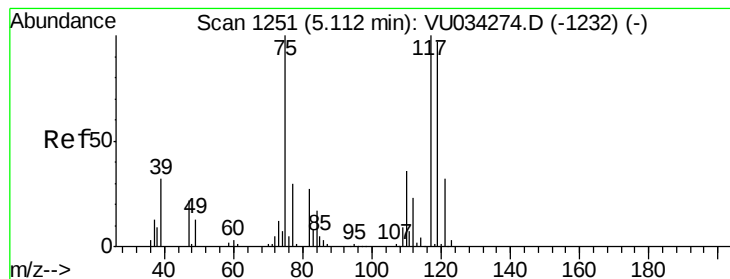
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.5	122.3
192	21.8	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.068 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034308.D
 Acq: 06 Sep 2019 00:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.6	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.951 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(0)

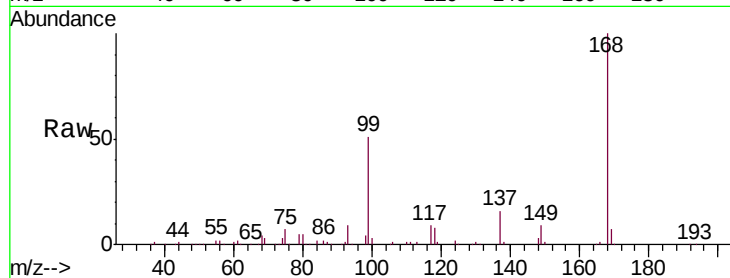
Tgt Ion:117 Resp: 37318

Ion Ratio Lower Upper

117 100

119 5.8 77.8 116.6#

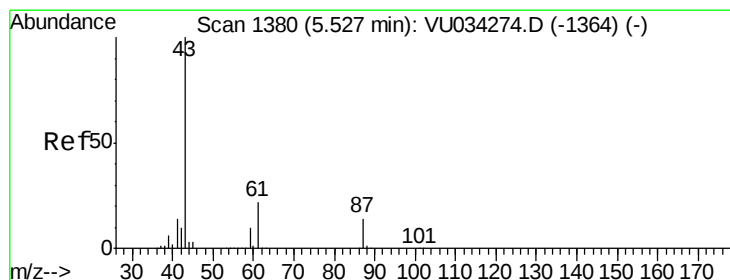
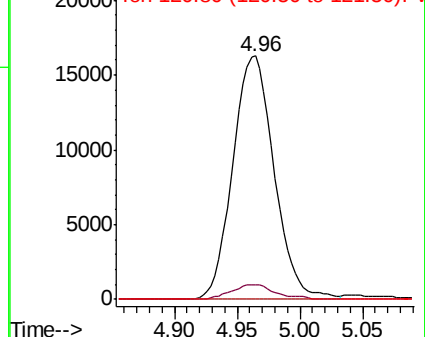
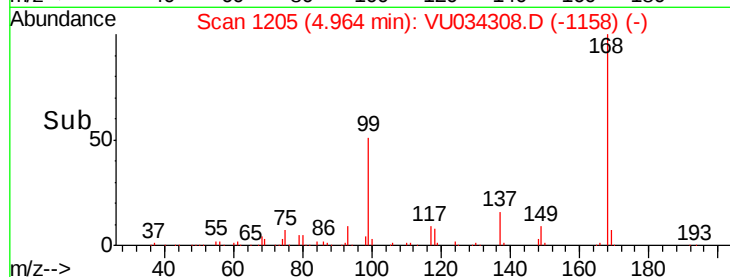
121 0.0 25.2 37.8#



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: 5.065 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

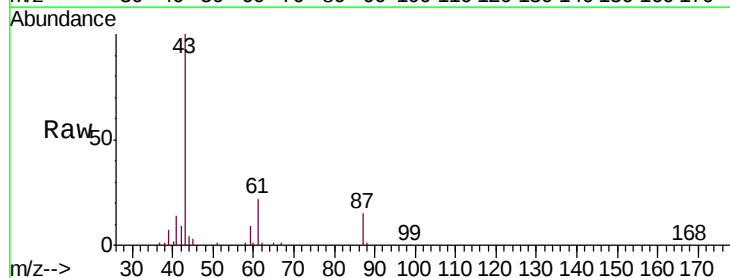
Tgt Ion: 43 Resp: 65949

Ion Ratio Lower Upper

43 100

61 21.3 17.1 25.7

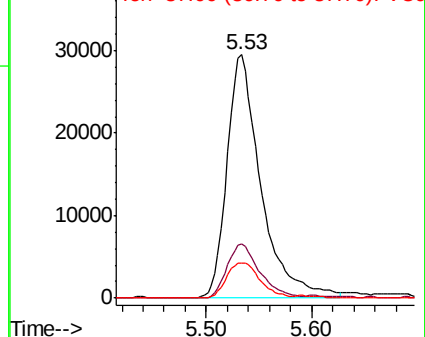
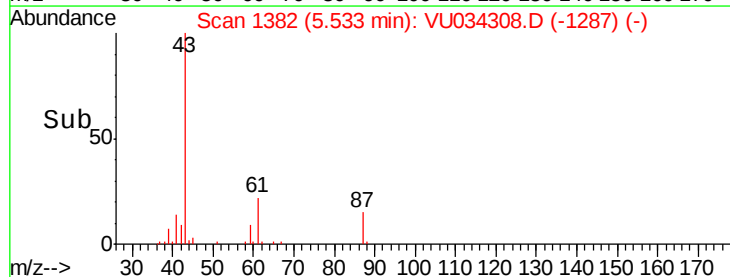
87 14.4 11.1 16.7

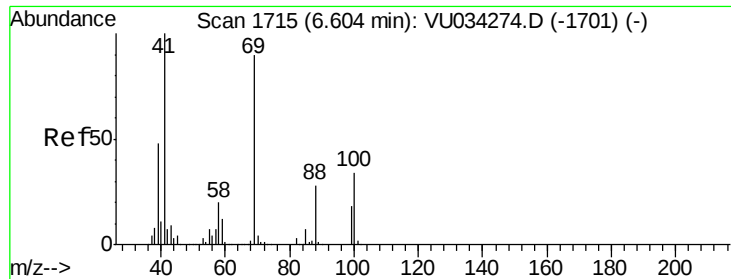


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

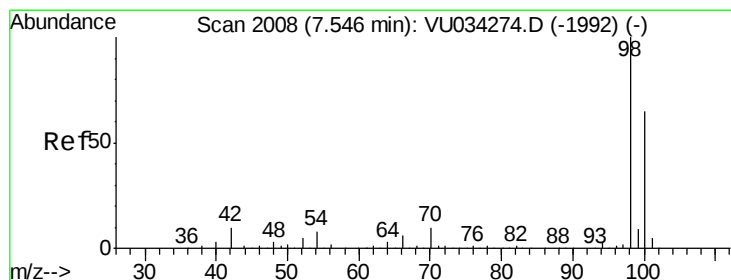
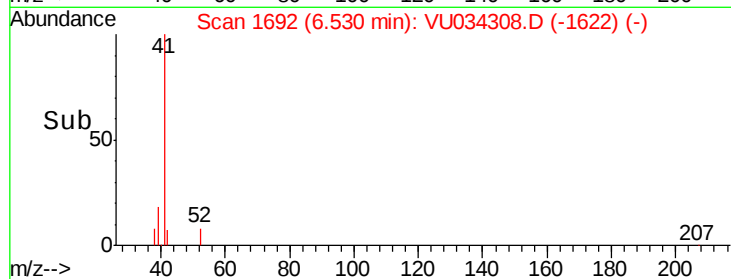
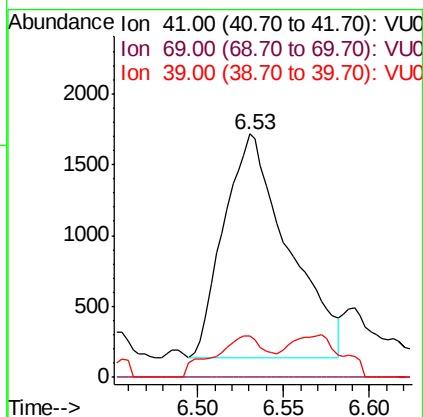
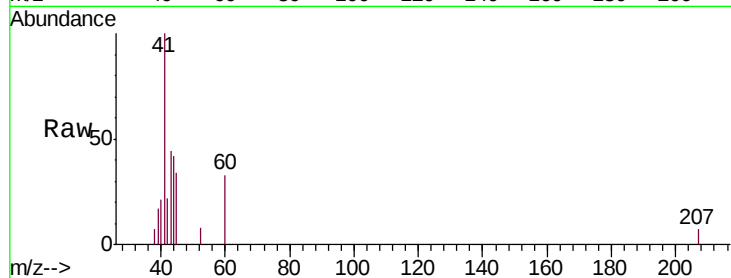




#48
Methyl methacrylate
Concen: 0.659 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034308.D
Acq: 06 Sep 2019 00:50

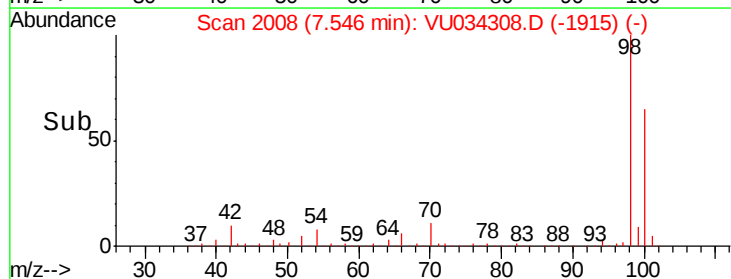
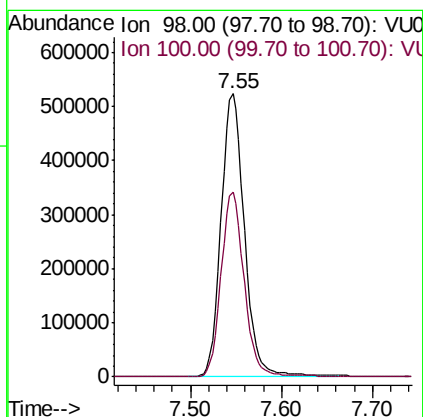
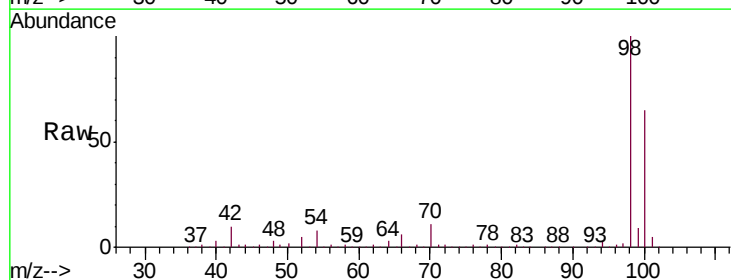
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(0)

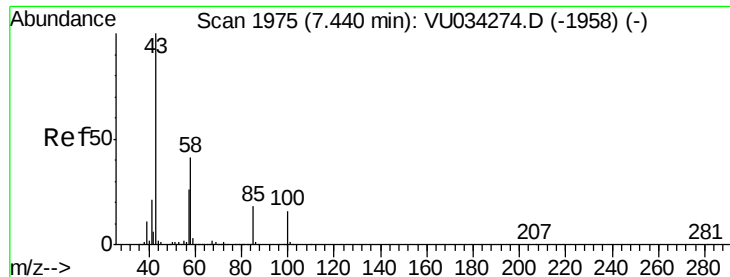
Tgt Ion: 41 Resp: 4078
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#



#50
Toluene-d8
Concen: 41.213 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034308.D
Acq: 06 Sep 2019 00:50

Tgt Ion: 98 Resp: 937805
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 6.957 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

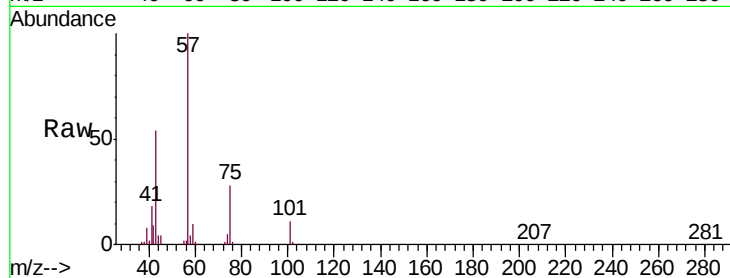
PAR-12-B1-(0)

Tgt Ion: 43 Resp: 62700

Ion Ratio Lower Upper

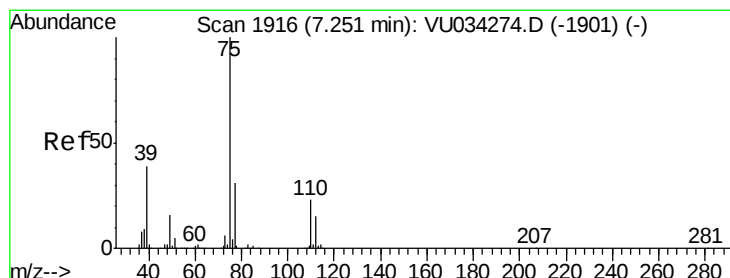
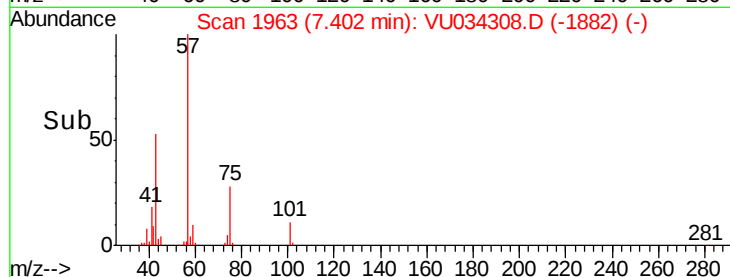
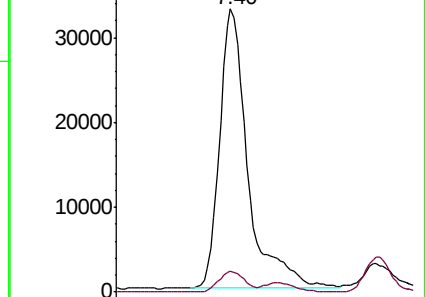
43 100

58 6.9 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-1958) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-1958) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.092 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

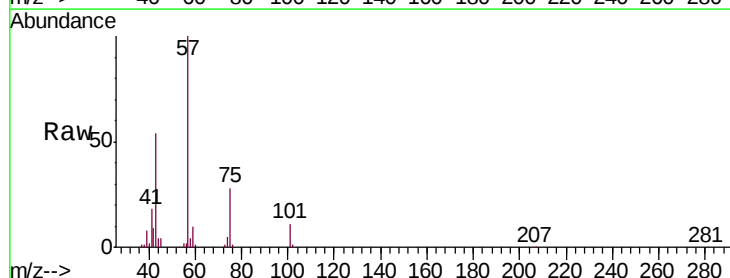
Tgt Ion: 75 Resp: 30270

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

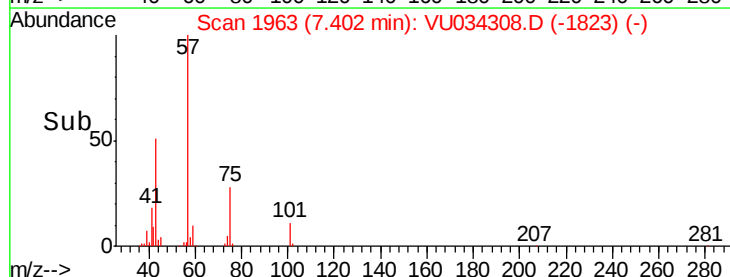
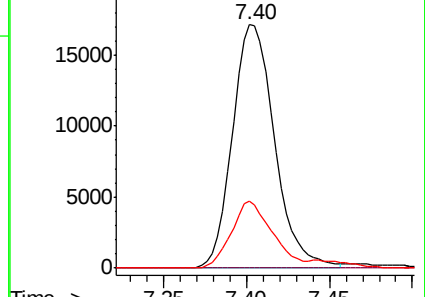
39 27.6 31.2 46.8#

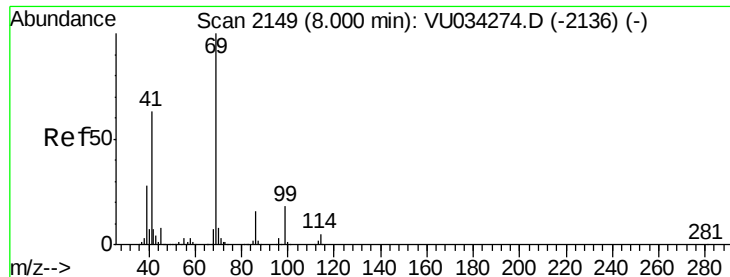


Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-1901) (-)

Ion 76.90 (76.60 to 77.60): VU034274.D (-1901) (-)

Ion 39.00 (38.70 to 39.70): VU034274.D (-1901) (-)





#56

Ethyl methacrylate

Concen: 3.088 ug/l

RT: 7.95 min Scan# 2134

Delta R.T. -0.05 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(0)

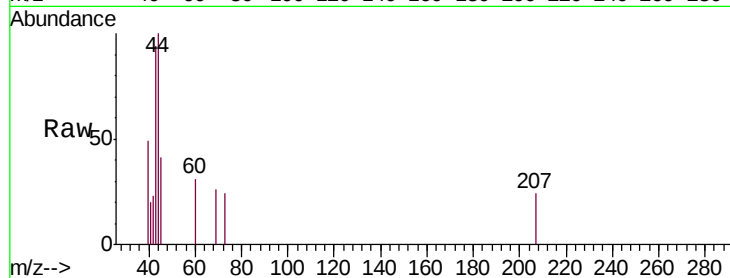
Tgt Ion: 69 Resp: 122

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

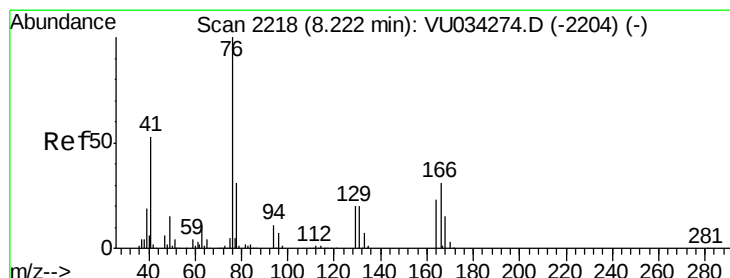
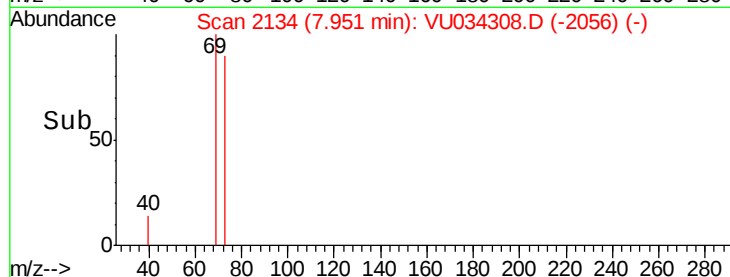
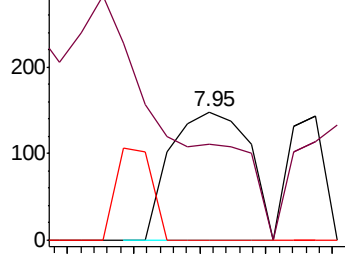
39 0.0 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU034308.D (-2056) (-)

Ion 41.00 (40.70 to 41.70): VU034308.D (-2056) (-)

Ion 39.00 (38.70 to 39.70): VU034308.D (-2056) (-)



#57

1,3-Dichloropropane

Concen: 0.472 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034308.D

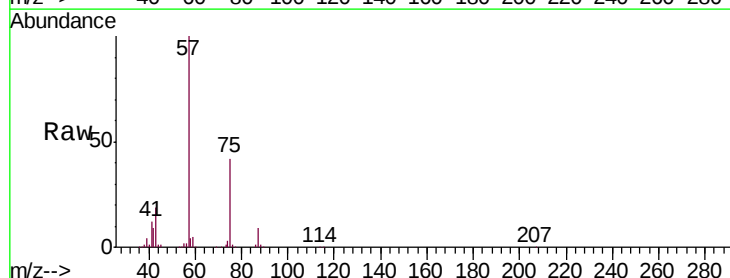
Acq: 06 Sep 2019 00:50

Tgt Ion: 76 Resp: 4992

Ion Ratio Lower Upper

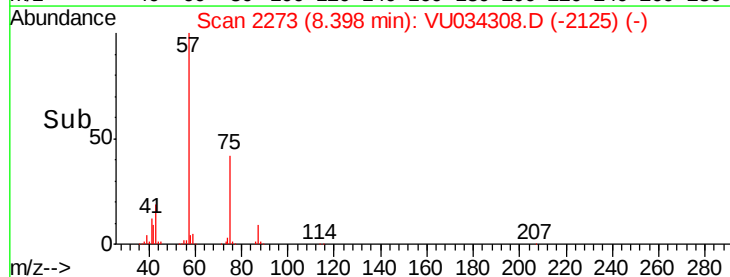
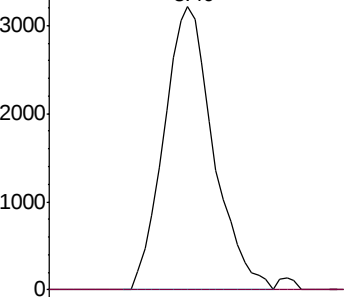
76 100

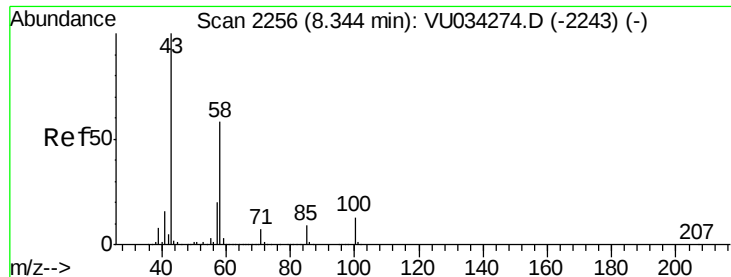
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034308.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034308.D (-2125) (-)

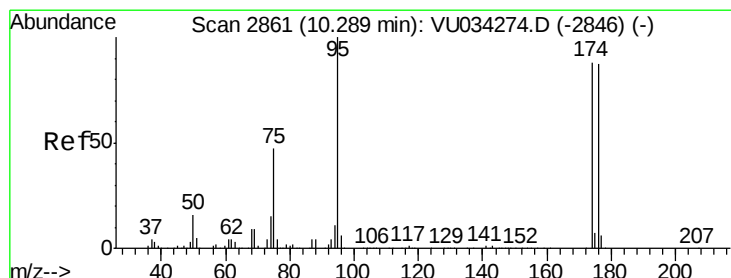
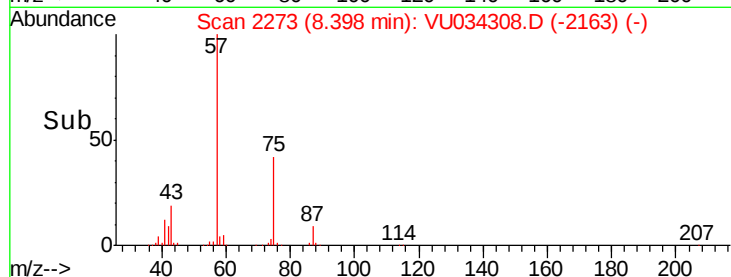
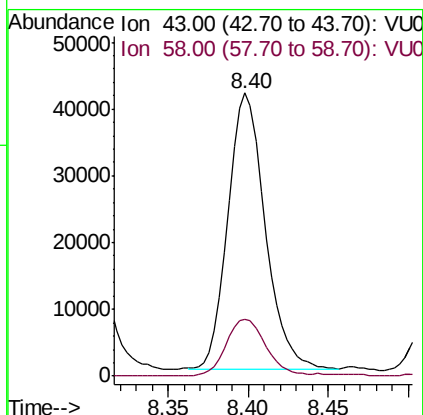
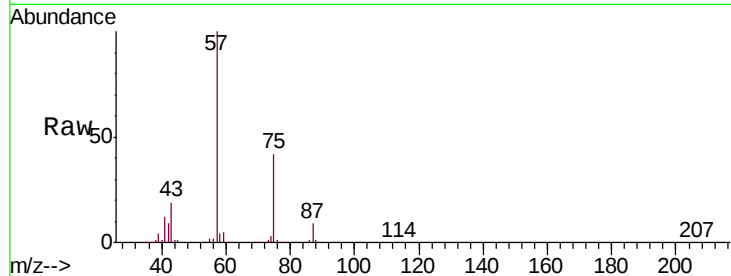




#59
 2-Hexanone
 Concen: 9.751 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034308.D
 Acq: 06 Sep 2019 00:50

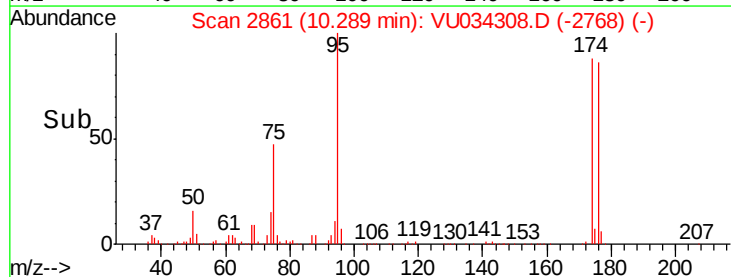
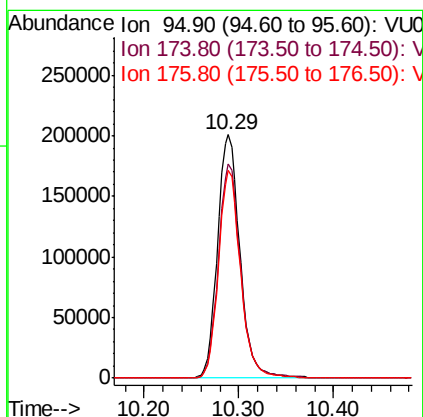
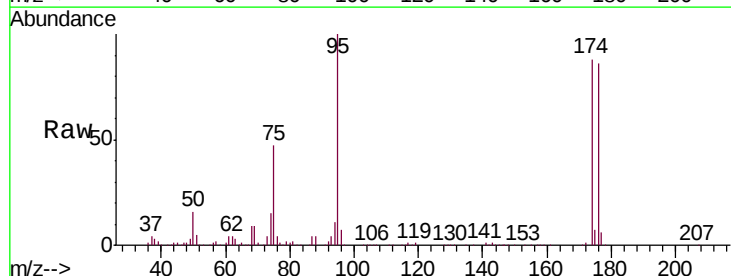
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B1-(0)

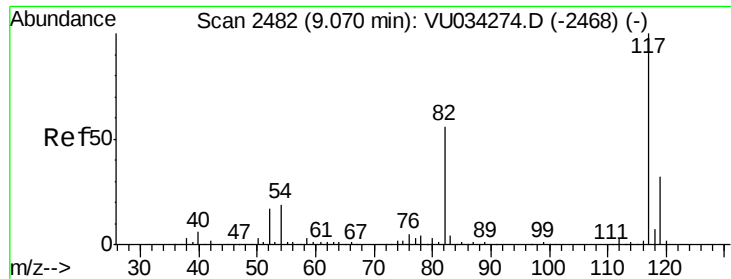
Tgt Ion: 43 Resp: 65649
 Ion Ratio Lower Upper
 43 100
 58 23.1 28.8 86.5#



#62
 4-Bromofluorobenzene
 Concen: 37.666 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.00 min
 Lab File: VU034308.D
 Acq: 06 Sep 2019 00:50

Tgt Ion: 95 Resp: 330920
 Ion Ratio Lower Upper
 95 100
 174 87.5 0.0 175.2
 176 84.1 0.0 168.0

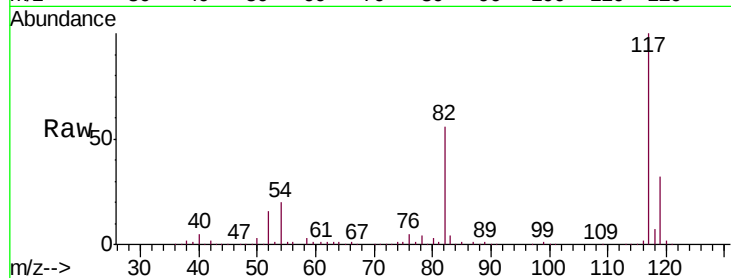




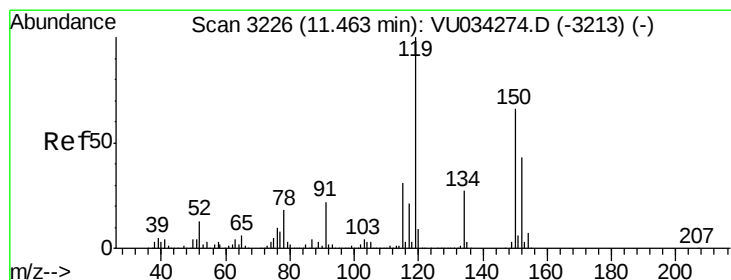
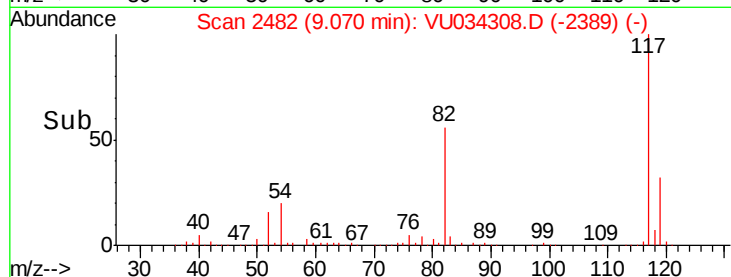
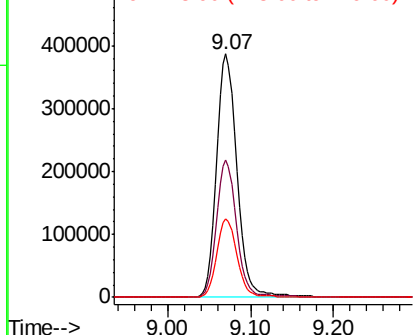
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034308.D
Acq: 06 Sep 2019 00:50

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(0)

Tgt Ion:117 Resp: 660343
Ion Ratio Lower Upper
117 100
82 56.4 44.6 67.0
119 32.1 25.9 38.9

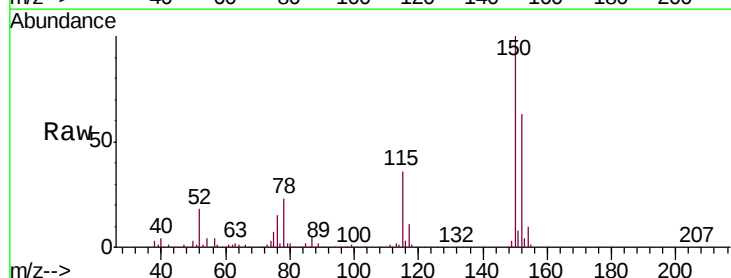


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

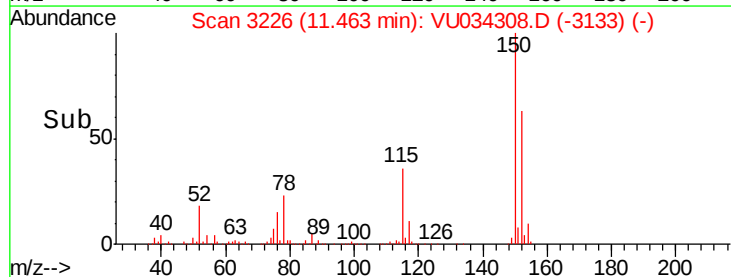
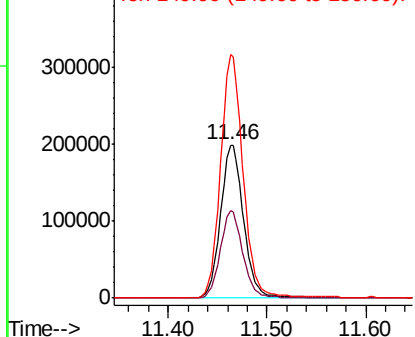


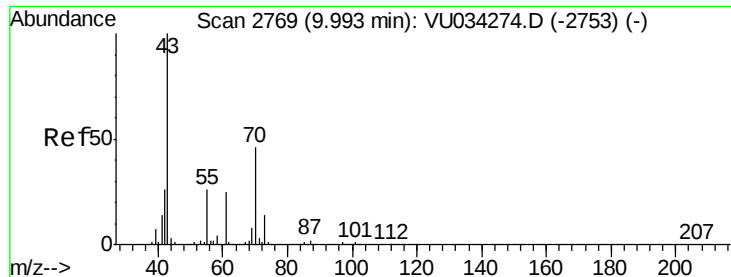
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034308.D
Acq: 06 Sep 2019 00:50

Tgt Ion:152 Resp: 327795
Ion Ratio Lower Upper
152 100
115 55.6 39.1 117.3
150 155.2 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-amyI acetate

Concen: 0.278 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(0)

Tgt Ion: 43 Resp: 2391

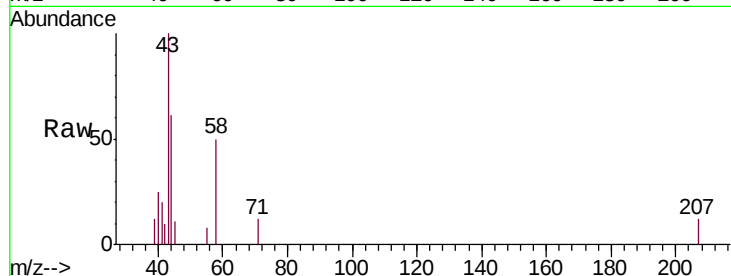
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 6.6 21.2 31.8#

61 0.0 20.4 30.6#

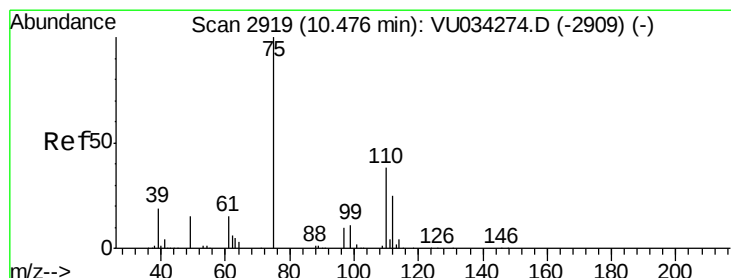
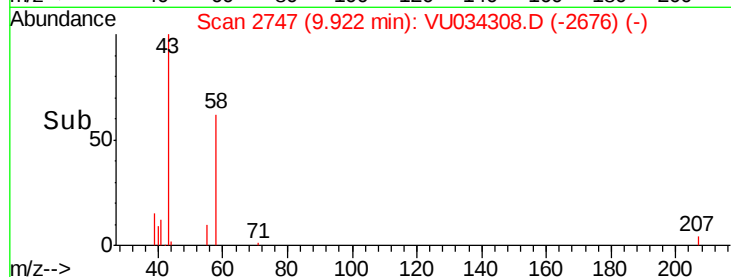
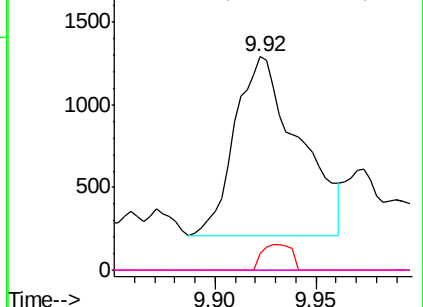


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 21.548 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034308.D

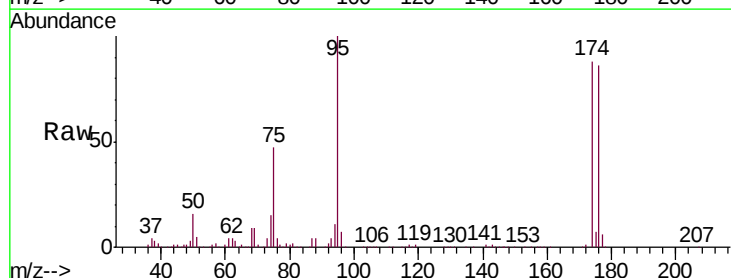
Acq: 06 Sep 2019 00:50

Tgt Ion: 75 Resp: 154177

Ion Ratio Lower Upper

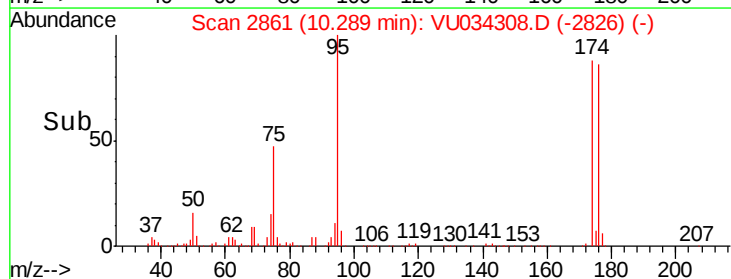
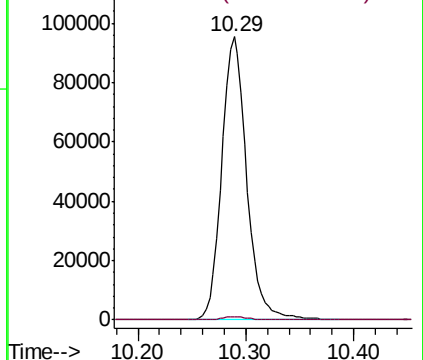
75 100

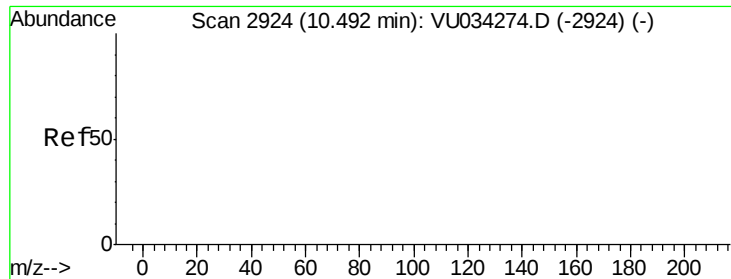
77 1.3 20.8 62.2#



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: 72.463 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034308.D

Acq: 06 Sep 2019 00:50

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(0)

Tgt Ion: 75 Resp: 154177

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

