

Data File : VU034311.D
Acq On : 06 Sep 2019 02:00
Operator : JC/SP
Sample : K4579-29
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B4-(0)

Quant Time: Sep 06 07:46:55 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	417449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	651992	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	664052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	326625	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	269385	42.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.30%	
35) Dibromofluoromethane	4.86	113	236254	38.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.88%	
50) Toluene-d8	7.55	98	944731	41.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.90%	
62) 4-Bromofluorobenzene	10.29	95	333676	37.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.84%	

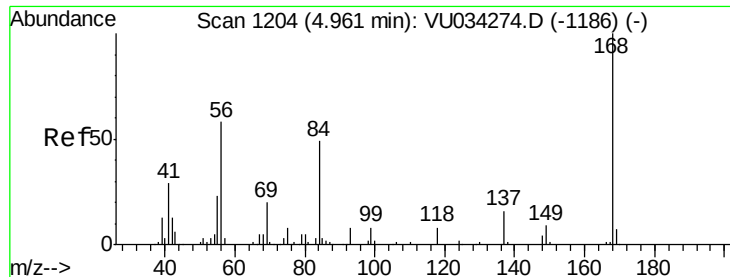
Target Compounds

						Qvalue
5) Bromomethane	1.63	94	476	Below Cal	#	74
6) Chloroethane	1.68	64	113	Below Cal	#	43
8) Diethyl Ether	2.09	74	1684	0.525	ug/l	96
11) Tert butyl alcohol	2.82	59	4345	3.256	ug/l #	73
16) Acetone	2.31	43	12294	3.761	ug/l	99
18) Methyl Acetate	2.61	43	3379	0.425	ug/l #	90
20) Methylene Chloride	2.69	84	12854	2.017	ug/l	95
31) Cyclohexane	4.96	56	7107	0.961	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	28315	4.004	ug/l #	49
38) Carbon Tetrachloride	4.96	117	38858	5.147	ug/l #	16
43) Isopropyl Acetate	5.53	43	82158	6.300	ug/l	98
48) Methyl methacrylate	6.52	41	4843	0.782	ug/l #	13
49) 1,4-Dioxane	6.69	88	102	0.754	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	71622	7.934	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	38712	3.948	ug/l #	62
56) Ethyl methacrylate	7.93	69	243	3.100	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	6230	0.589	ug/l #	43
59) 2-Hexanone	8.29	43	89466	13.266	ug/l #	22
74) N-amyl acetate	9.91	43	1885	0.220	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	156021	21.883	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	156021	73.592	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: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

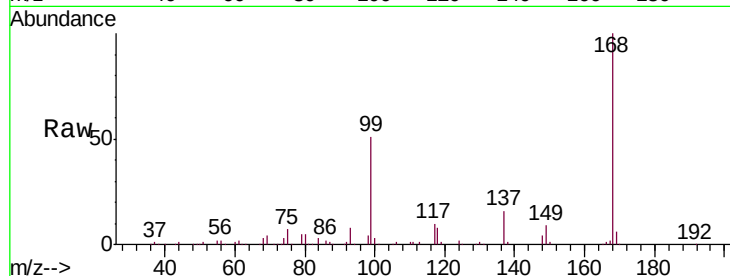
PAR-12-B4-(0)

Tgt Ion:168 Resp: 417449

Ion Ratio Lower Upper

168 100

99 51.0 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

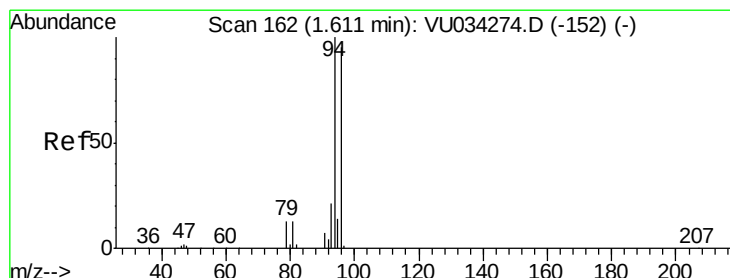
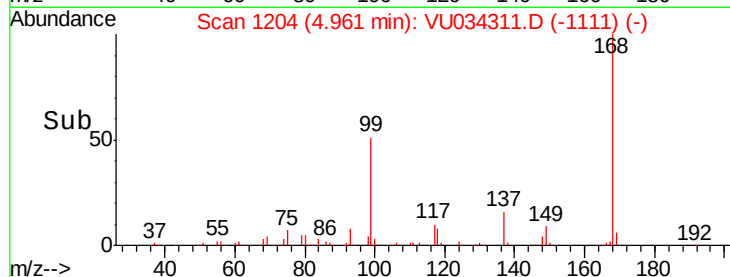
150000

100000

50000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034311.D

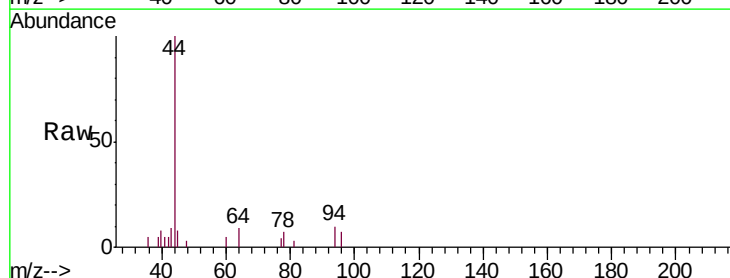
Acq: 06 Sep 2019 02:00

Tgt Ion: 94 Resp: 476

Ion Ratio Lower Upper

94 100

96 69.0 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

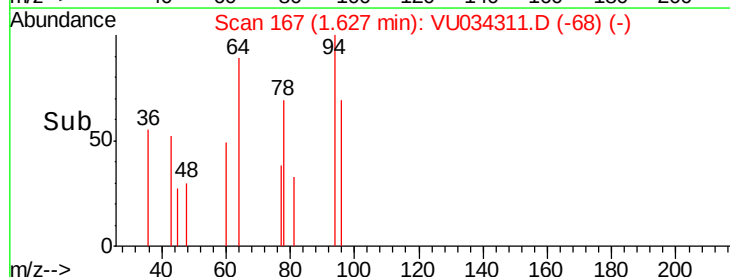
300

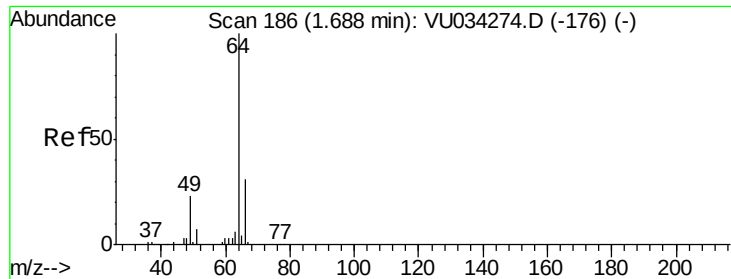
200

100

0

Time--> 1.60 1.62 1.64 1.66





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

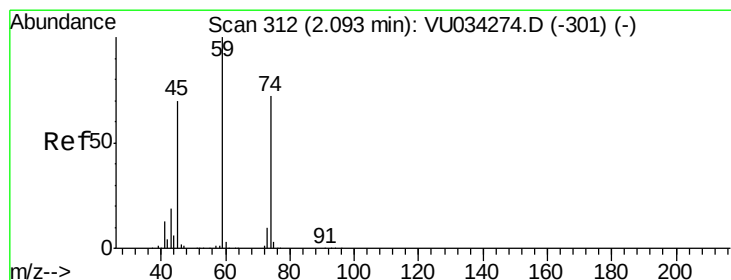
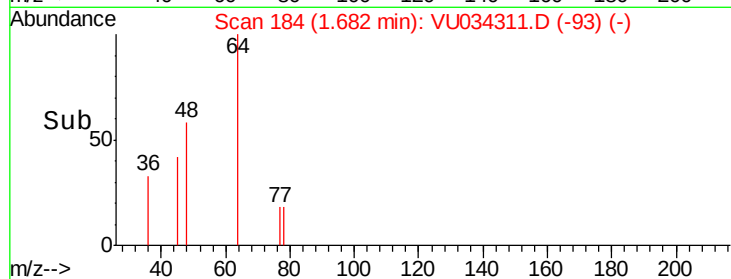
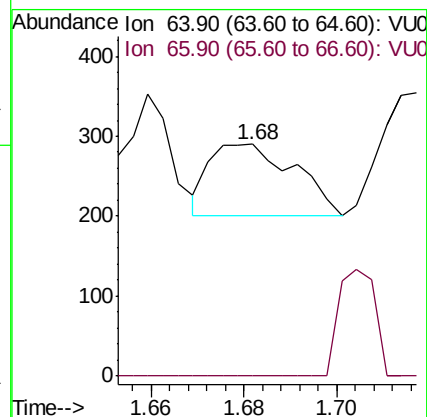
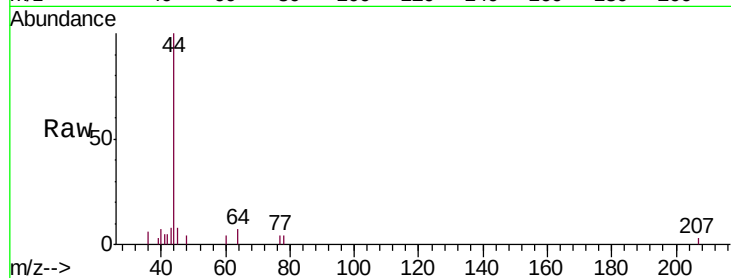
PAR-12-B4-(0)

Tgt Ion: 64 Resp: 113

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#8

Diethyl Ether

Concen: 0.525 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034311.D

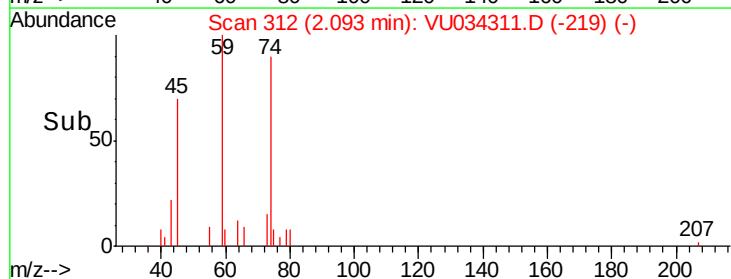
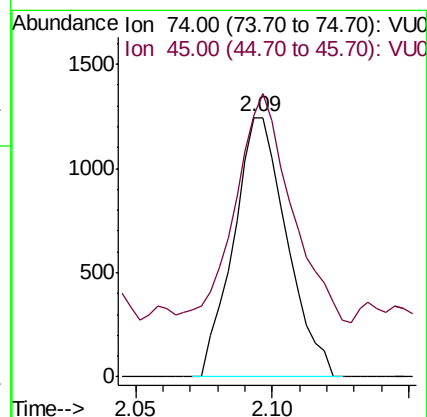
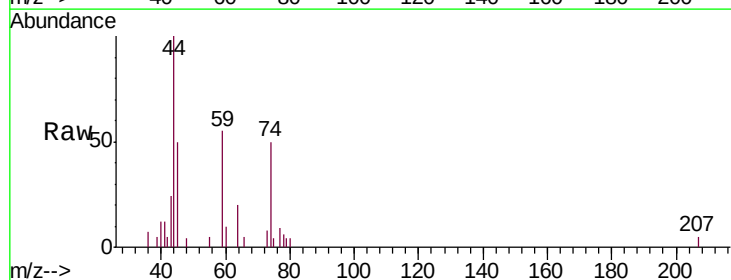
Acq: 06 Sep 2019 02:00

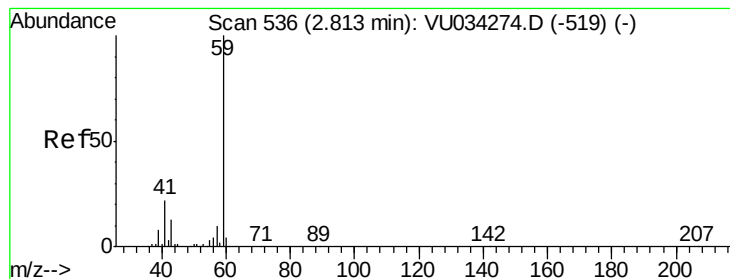
Tgt Ion: 74 Resp: 1684

Ion Ratio Lower Upper

74 100

45 92.5 48.2 144.6





#11

Tert butyl alcohol

Concen: 3.256 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

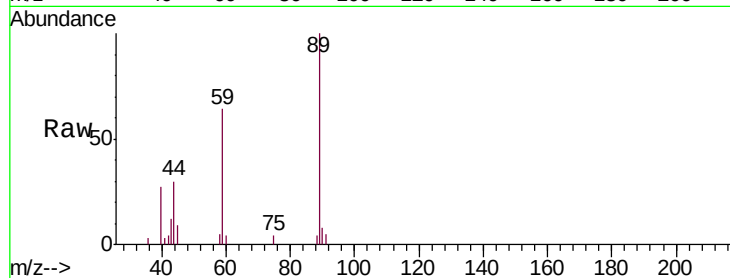
PAR-12-B4-(0)

Tgt Ion: 59 Resp: 4345

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034311.D (-443) (-)

Ion 57.00 (56.70 to 57.70): VU034311.D (-443) (-)

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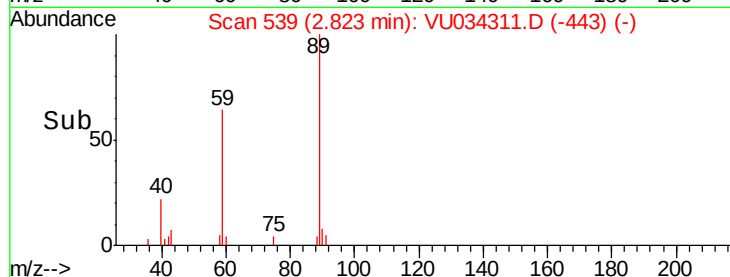
2.82

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#16

Acetone

Concen: 3.761 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034311.D

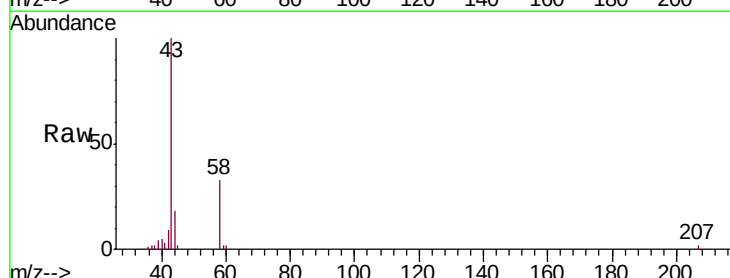
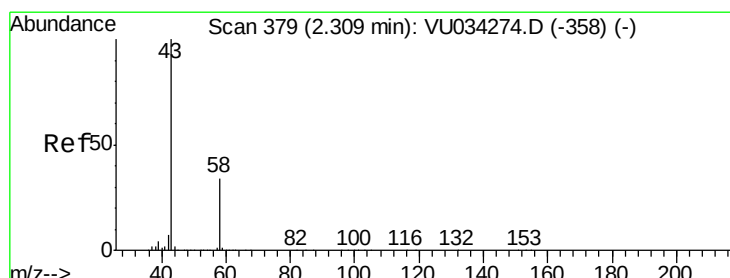
Acq: 06 Sep 2019 02:00

Tgt Ion: 43 Resp: 12294

Ion Ratio Lower Upper

43 100

58 34.1 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034311.D (-286) (-)

Ion 58.00 (57.70 to 58.70): VU034311.D (-286) (-)

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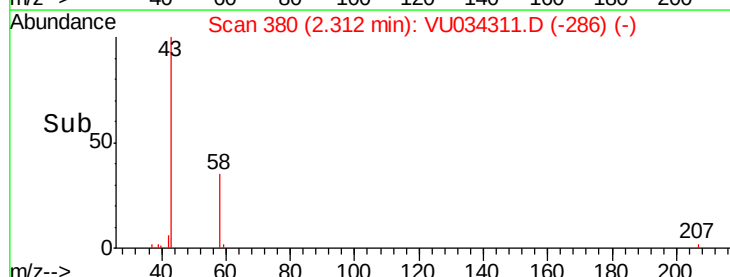
2.31

2.31

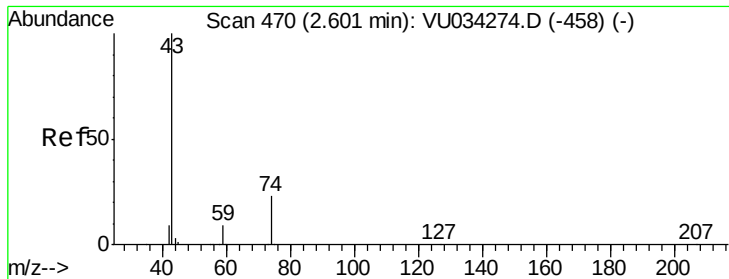
2.31

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2.31



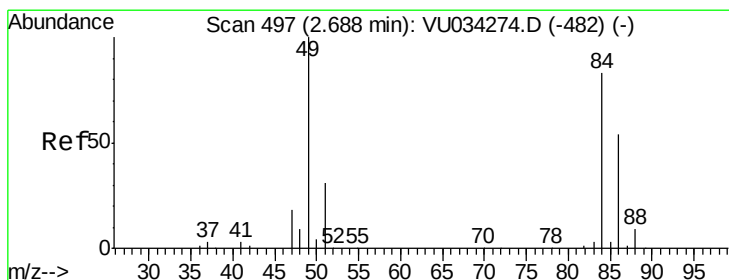
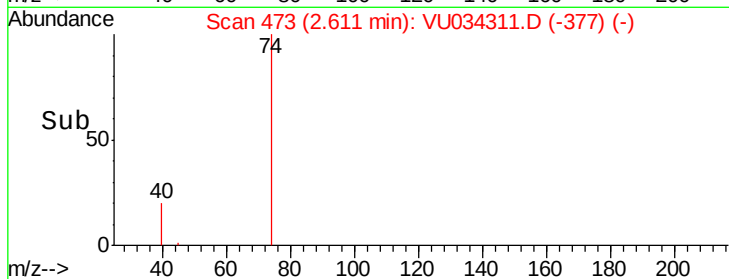
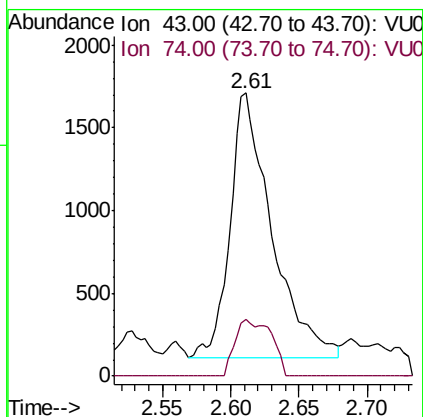
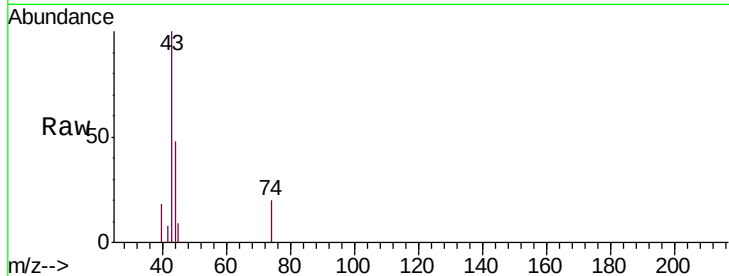
Time-->



#18
Methyl Acetate
Concen: 0.425 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

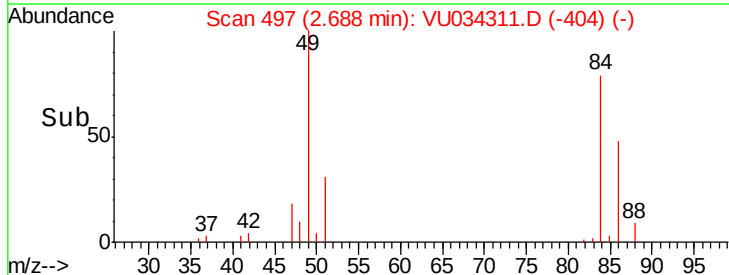
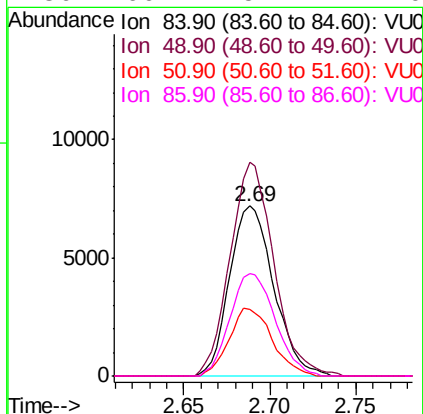
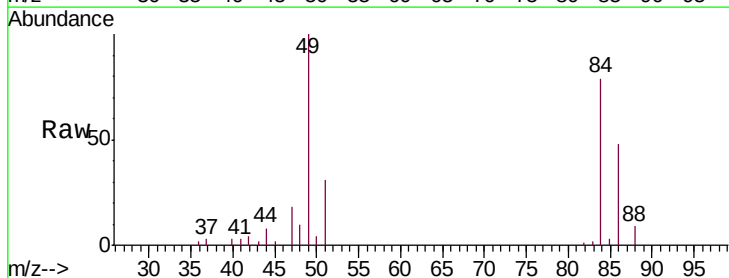
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B4-(0)

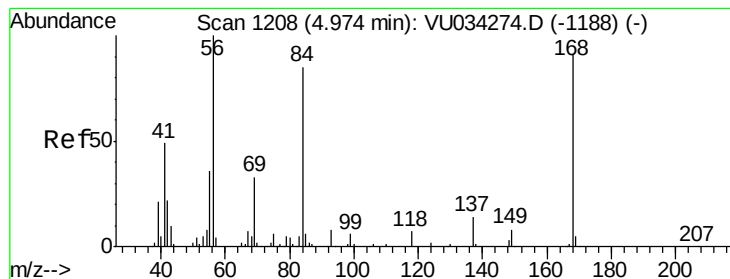
Tgt Ion: 43 Resp: 3379
Ion Ratio Lower Upper
43 100
74 18.7 18.9 28.3#



#20
Methylene Chloride
Concen: 2.017 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

Tgt Ion: 84 Resp: 12854
Ion Ratio Lower Upper
84 100
49 125.8 96.0 144.0
51 39.0 30.0 45.0
86 60.4 51.4 77.0





#31

Cyclohexane

Concen: 0.961 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B4-(0)

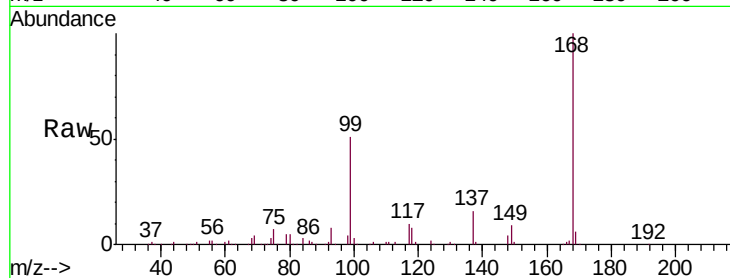
Tgt Ion: 56 Resp: 7107

Ion Ratio Lower Upper

56 100

69 190.1 26.7 40.1#

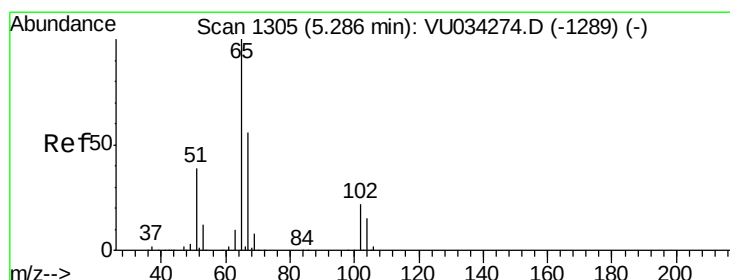
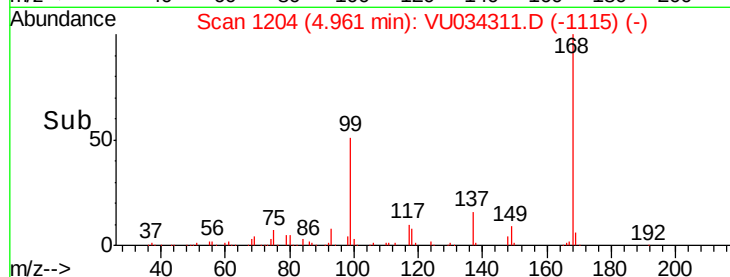
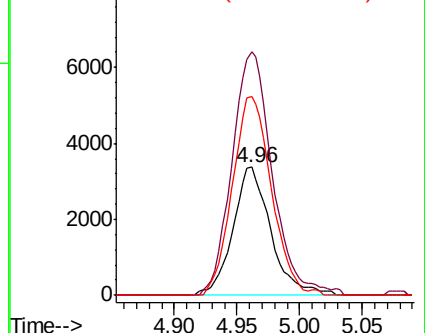
84 155.4 68.2 102.4#



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: 42.650 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034311.D

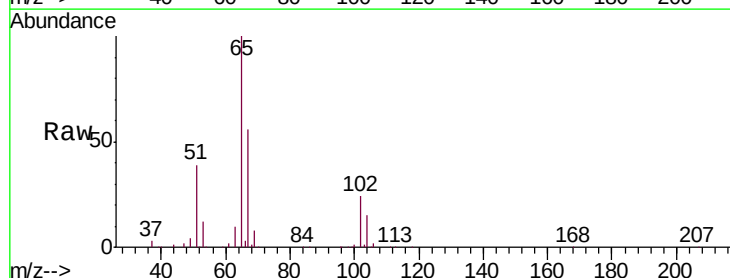
Acq: 06 Sep 2019 02:00

Tgt Ion: 65 Resp: 269385

Ion Ratio Lower Upper

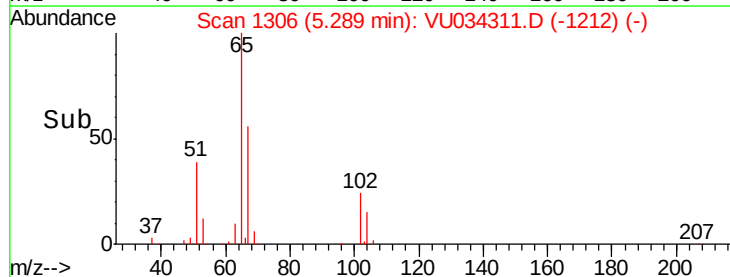
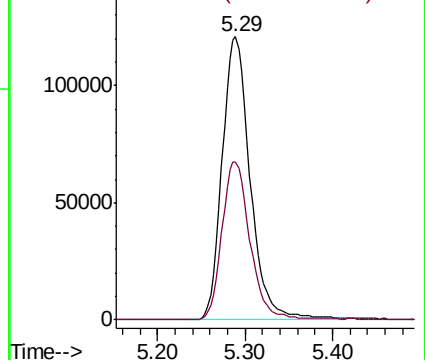
65 100

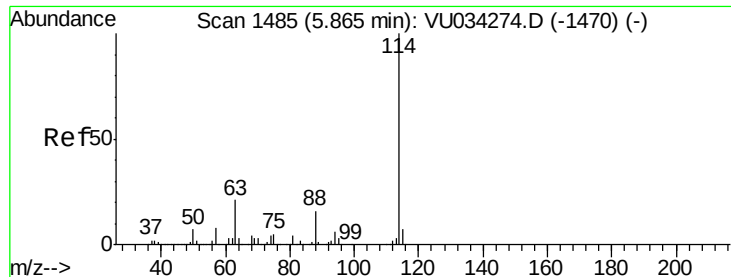
67 56.3 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

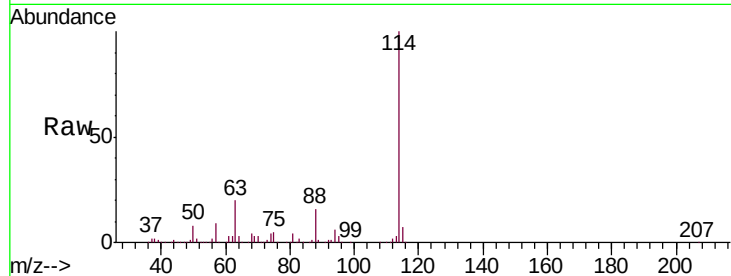




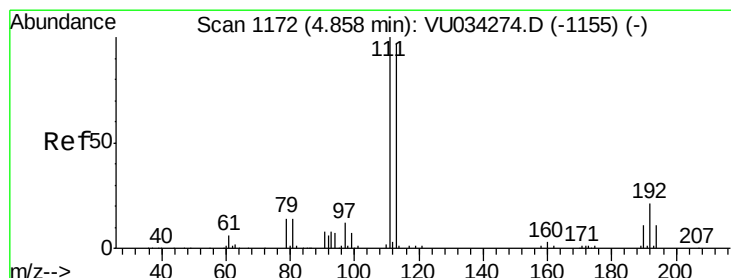
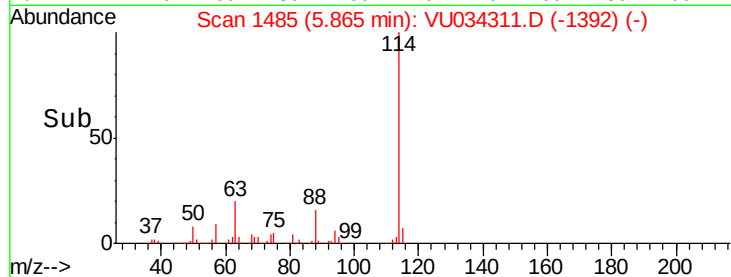
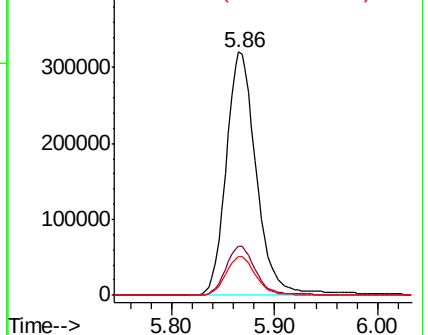
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034311.D
 Acq: 06 Sep 2019 02:00

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B4-(0)

Tgt Ion:114 Resp: 651992
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.4
 88 15.7 0.0 32.4

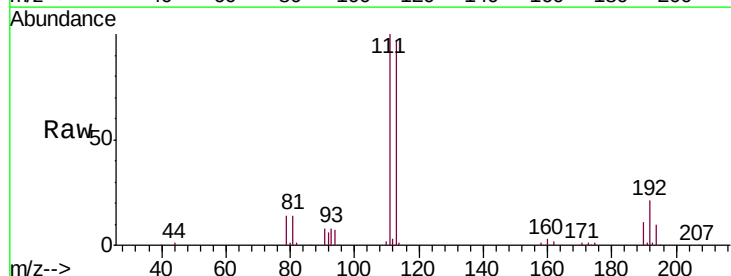


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

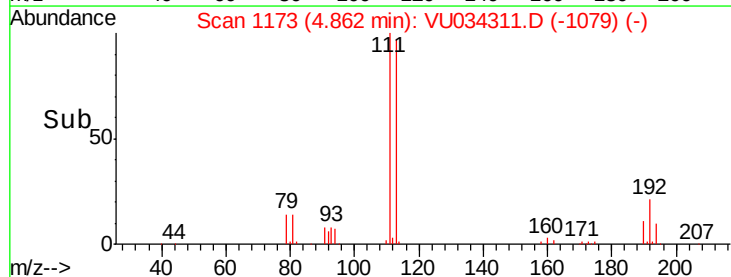
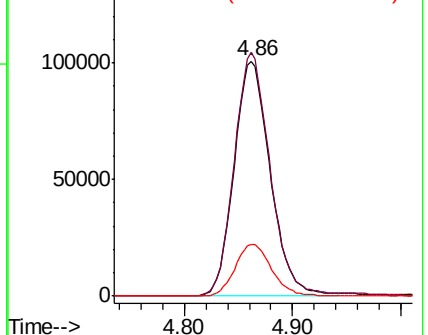


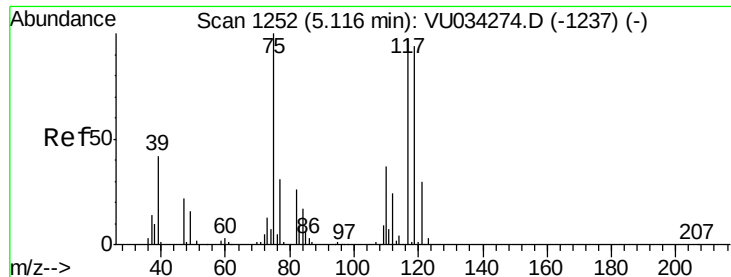
#35
 Dibromofluoromethane
 Concen: 38.942 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034311.D
 Acq: 06 Sep 2019 02:00

Tgt Ion:113 Resp: 236254
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.5 122.3
 192 22.4 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

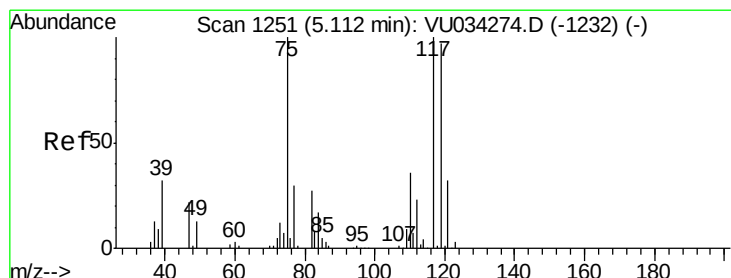
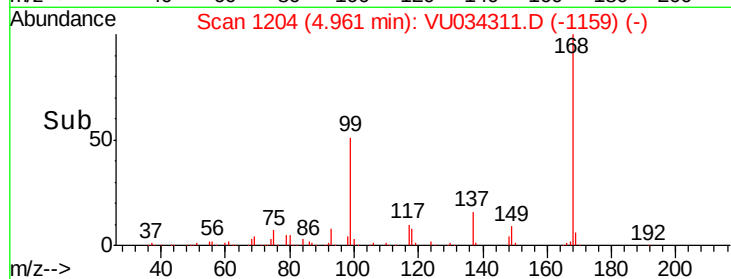
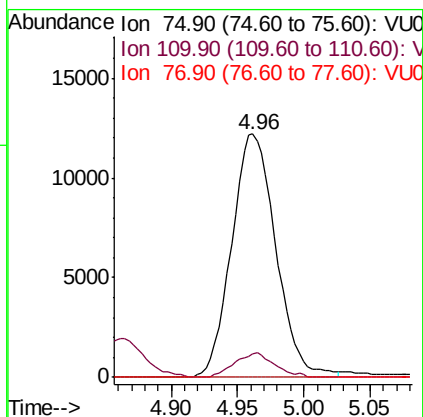
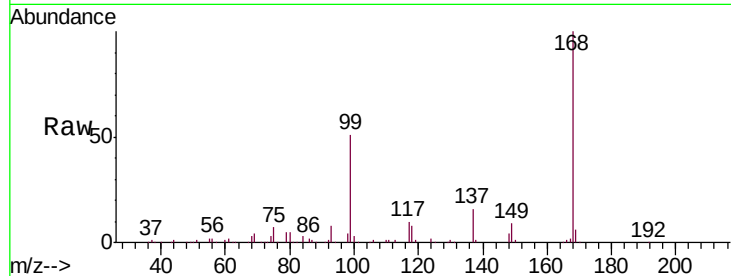




#36
 1,1-Dichloropropene
 Concen: 4.004 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034311.D
 Acq: 06 Sep 2019 02:00

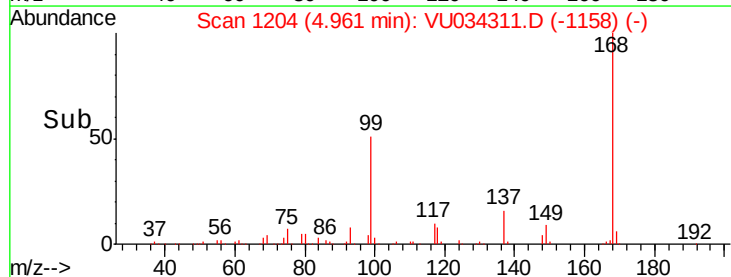
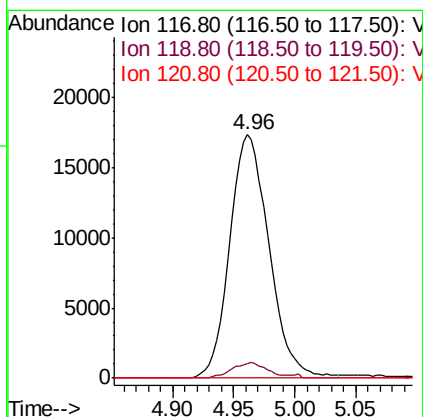
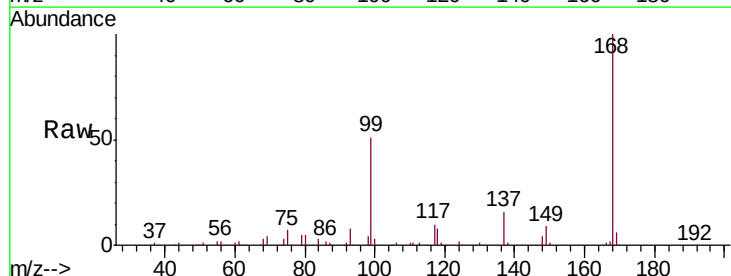
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B4-(0)

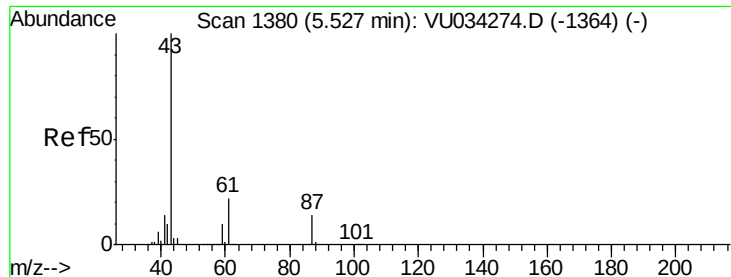
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.3	54.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.147 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034311.D
 Acq: 06 Sep 2019 02:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	77.8	116.6#
121	0.0	25.2	37.8#

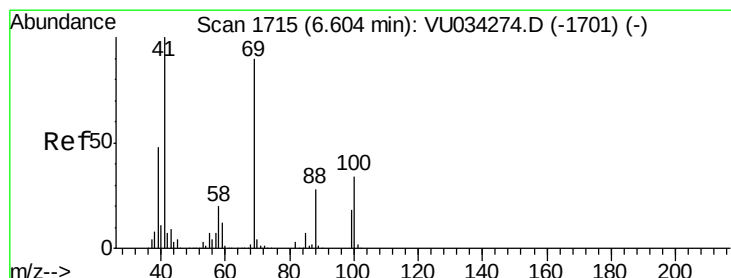
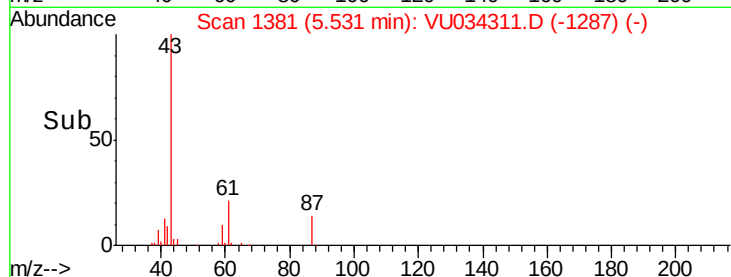
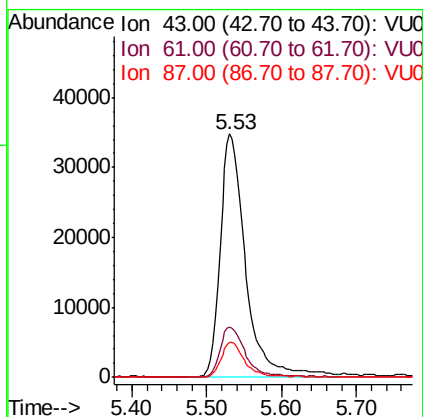
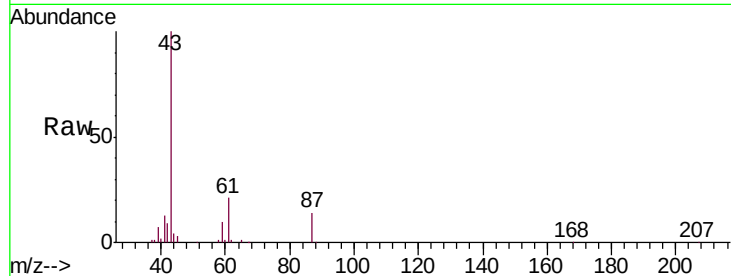




#43
Isopropyl Acetate
Concen: 6.300 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

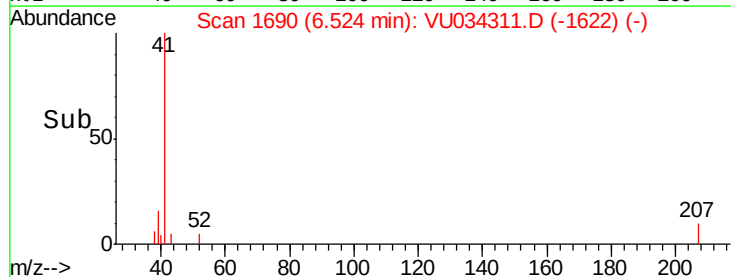
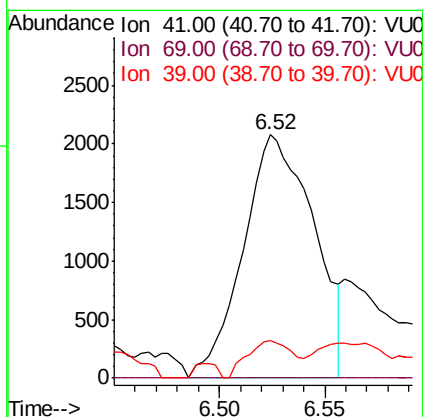
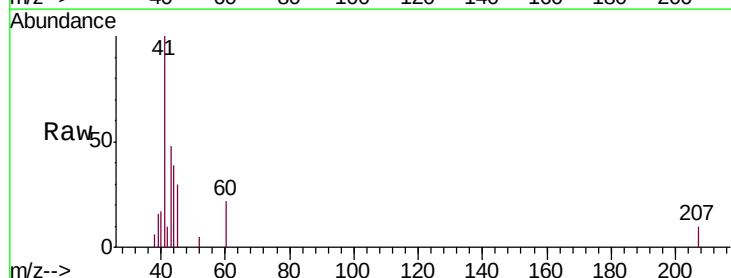
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B4-(0)

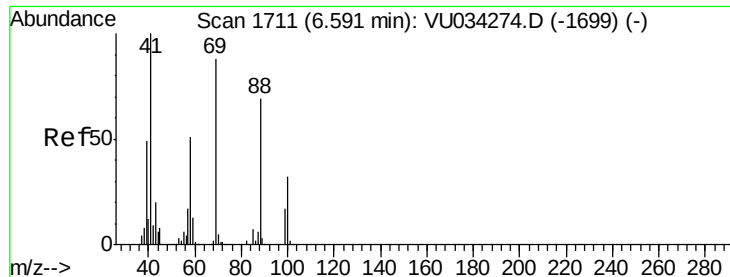
Tgt Ion: 43 Resp: 82158
Ion Ratio Lower Upper
43 100
61 20.5 17.1 25.7
87 13.1 11.1 16.7



#48
Methyl methacrylate
Concen: 0.782 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

Tgt Ion: 41 Resp: 4843
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#





#49

1,4-Dioxane

Concen: 0.754 ug/l

RT: 6.69 min Scan# 1743

Delta R.T. 0.10 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B4-(0)

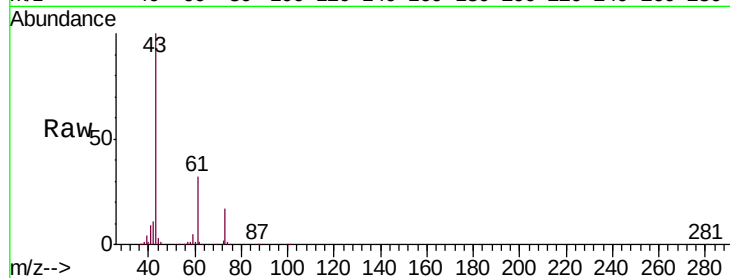
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

43 1297534.3 23.8 35.6#

58 7317.6 58.4 87.6#

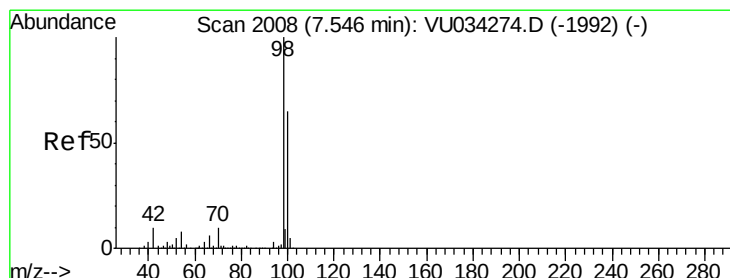
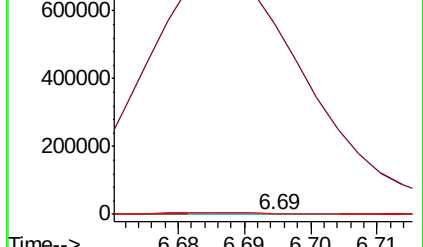
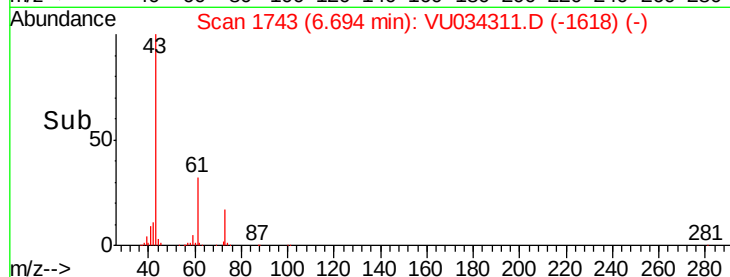


Abundance Ion 88.00 (87.70 to 88.70): VU034311.D (-1743) (-)

Ion 43.00 (42.70 to 43.70): VU034311.D (-1743) (-)

Ion 58.00 (57.70 to 58.70): VU034311.D (-1743) (-)

Time-->



#50

Toluene-d8

Concen: 41.448 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034311.D

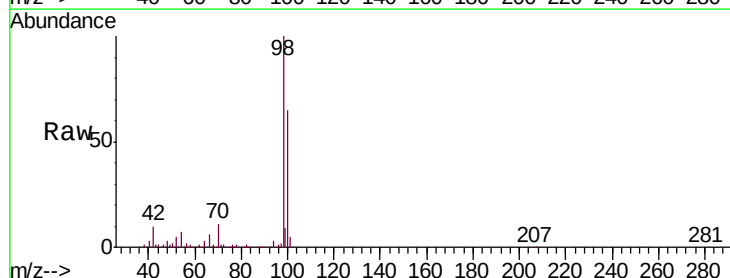
Acq: 06 Sep 2019 02:00

Tgt Ion: 98 Resp: 944731

Ion Ratio Lower Upper

98 100

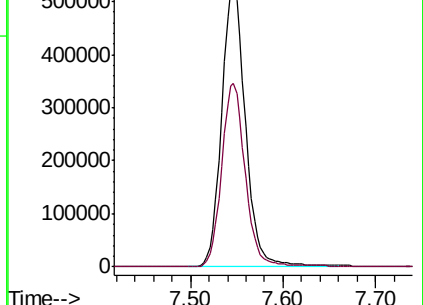
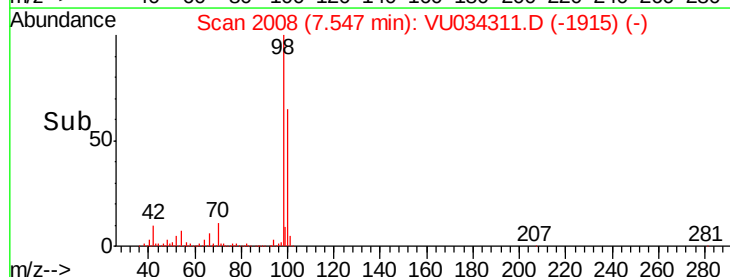
100 64.4 51.7 77.5

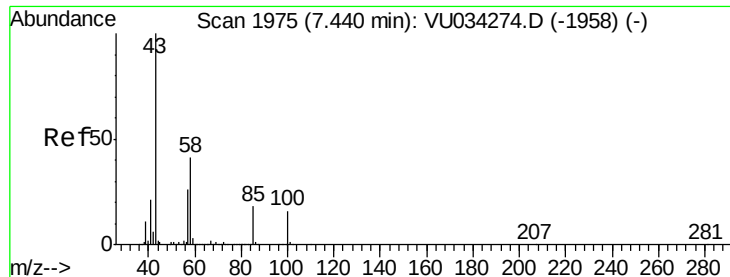


Abundance Ion 98.00 (97.70 to 98.70): VU034311.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034311.D (-2008) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 7.934 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

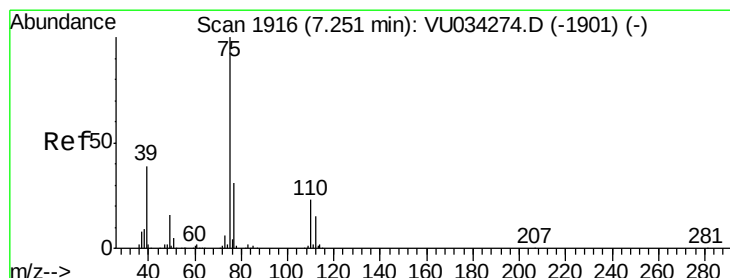
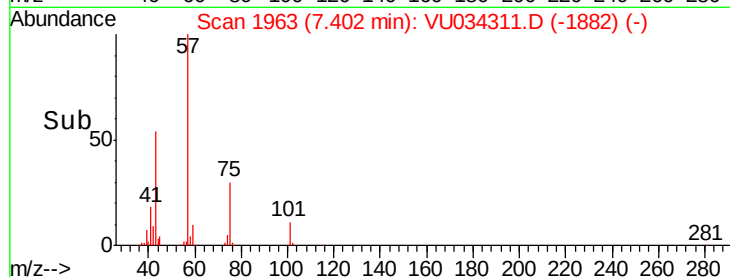
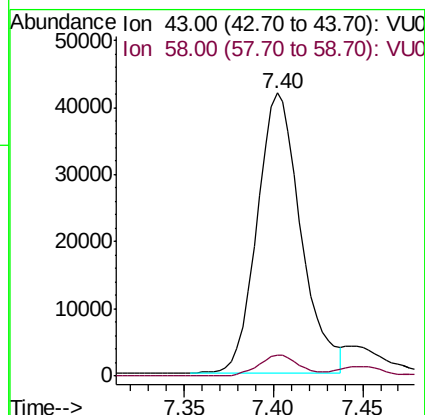
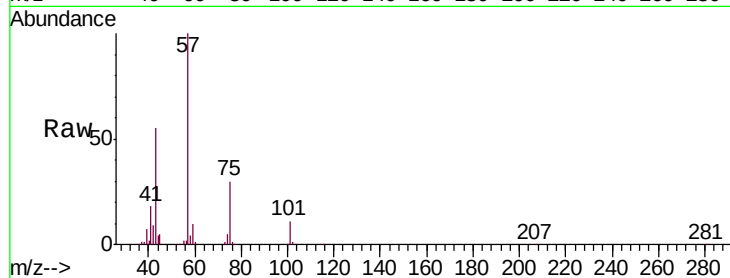
PAR-12-B4-(0)

Tgt Ion: 43 Resp: 71622

Ion Ratio Lower Upper

43 100

58 7.1 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 3.948 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

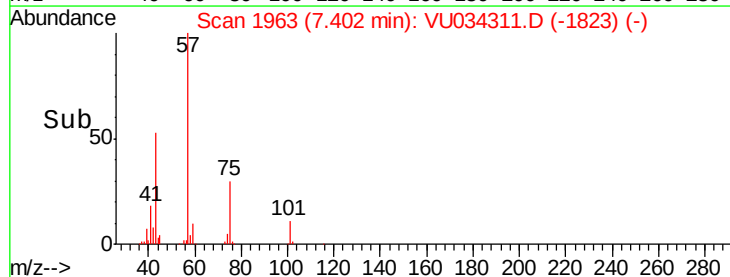
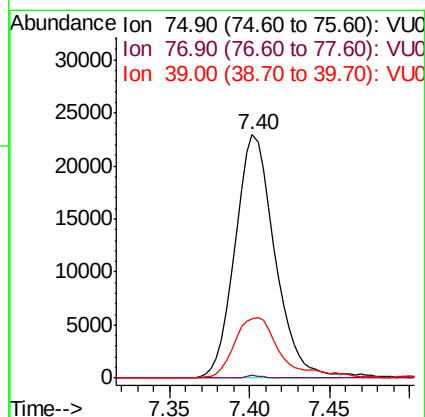
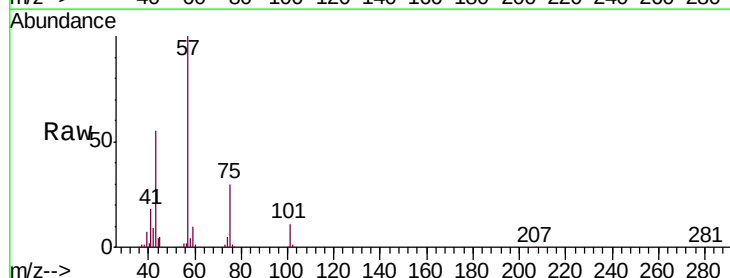
Tgt Ion: 75 Resp: 38712

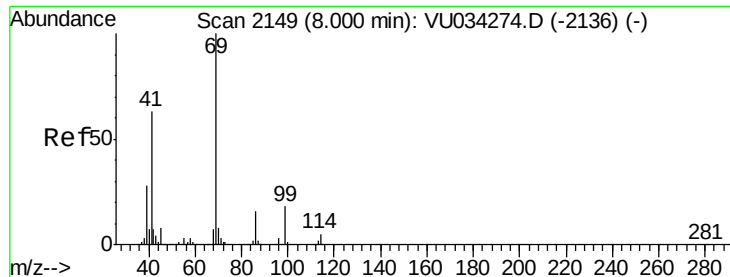
Ion Ratio Lower Upper

75 100

77 1.0 25.1 37.7#

39 24.5 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.100 ug/l

RT: 7.93 min Scan# 2127

Delta R.T. -0.07 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B4-(0)

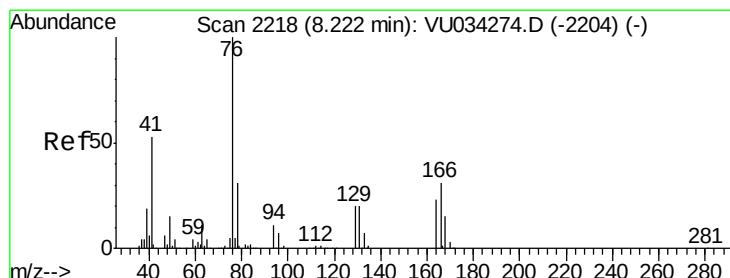
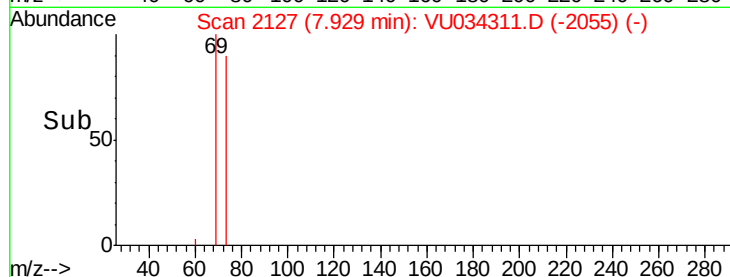
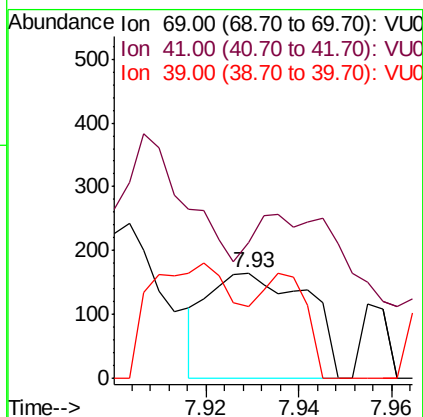
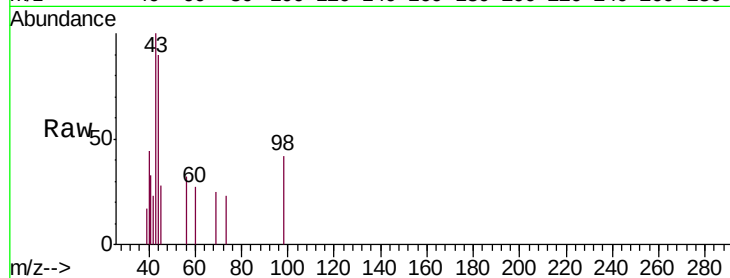
Tgt Ion: 69 Resp: 243

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: 0.589 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034311.D

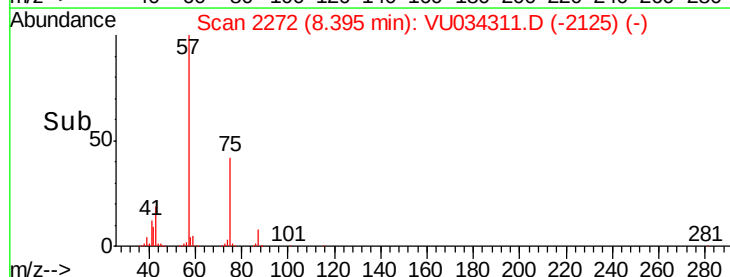
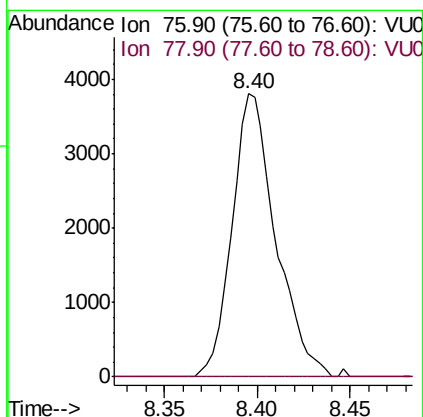
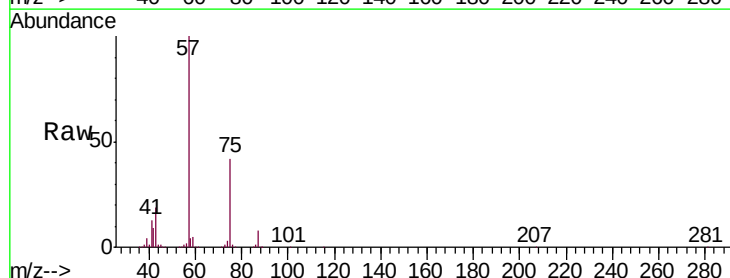
Acq: 06 Sep 2019 02:00

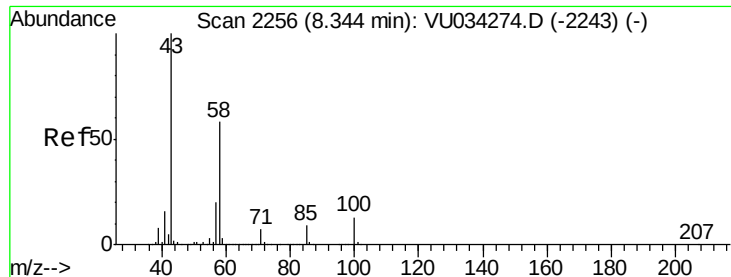
Tgt Ion: 76 Resp: 6230

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

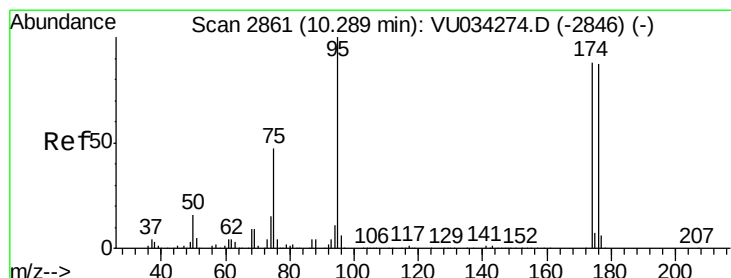
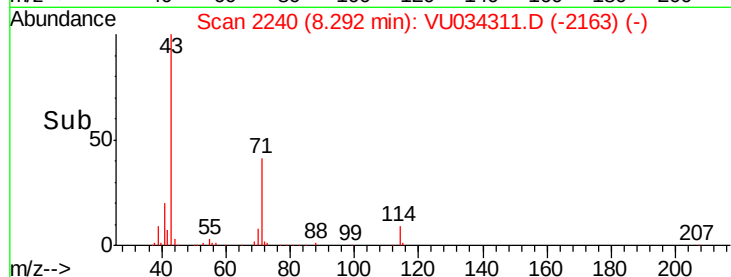
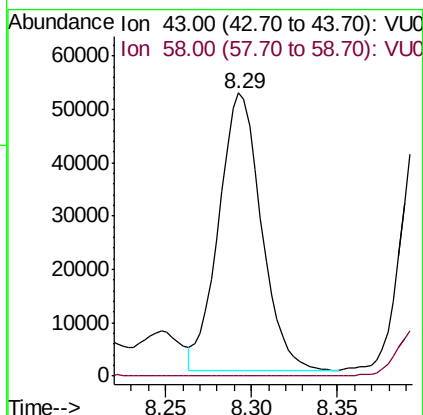
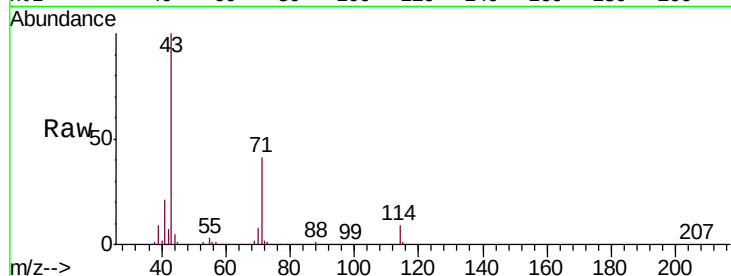




#59
2-Hexanone
Concen: 13.266 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

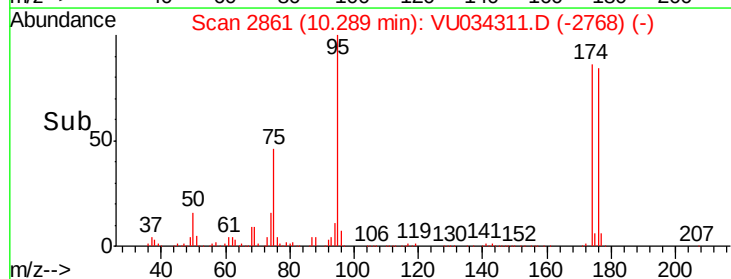
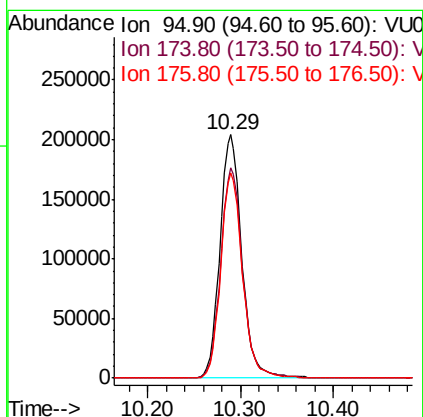
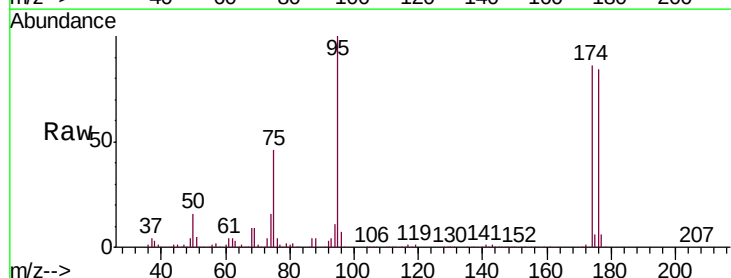
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B4-(0)

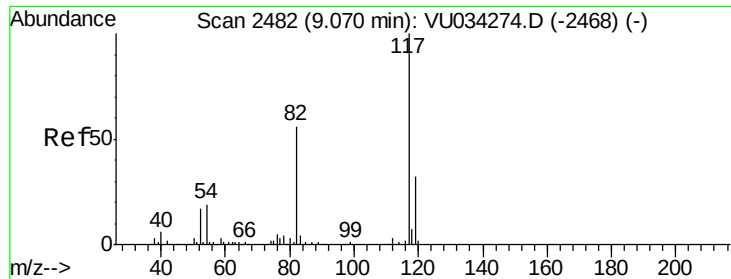
Tgt Ion: 43 Resp: 89466
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 37.917 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

Tgt Ion: 95 Resp: 333676
Ion Ratio Lower Upper
95 100
174 87.0 0.0 175.2
176 84.0 0.0 168.0

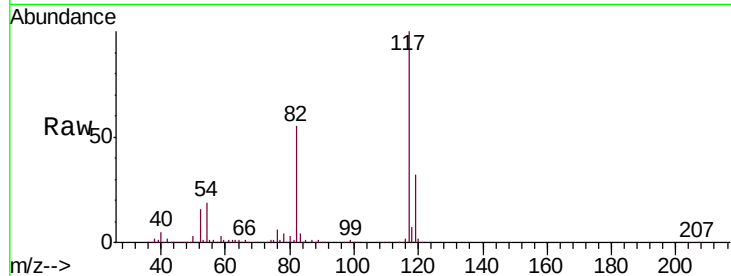




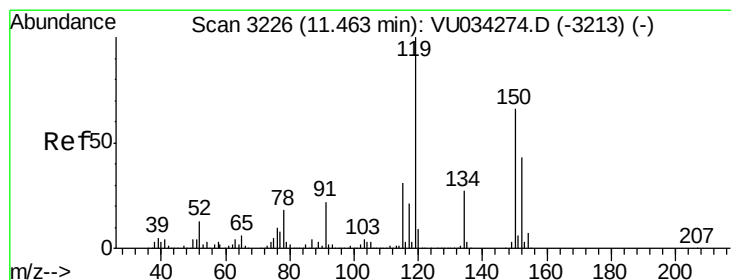
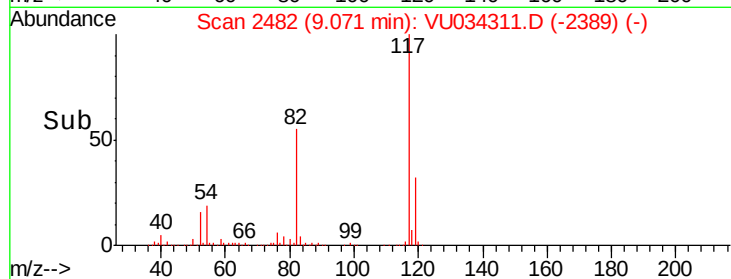
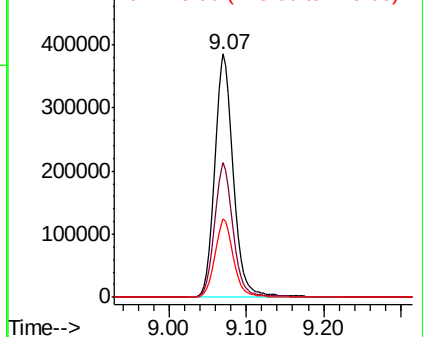
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B4-(0)

Tgt Ion:117 Resp: 664052
Ion Ratio Lower Upper
117 100
82 55.2 44.6 67.0
119 32.4 25.9 38.9

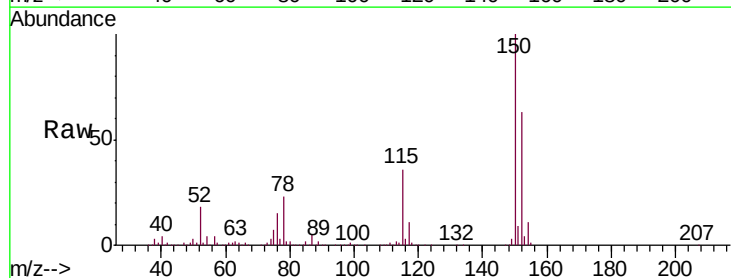


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

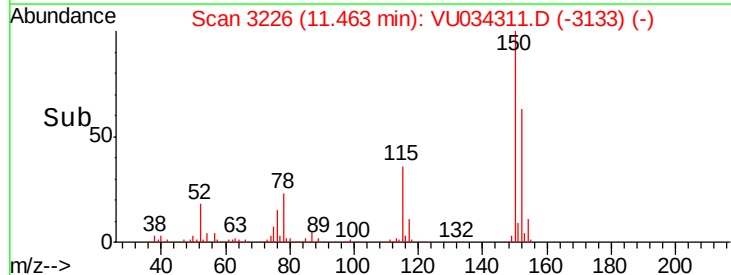
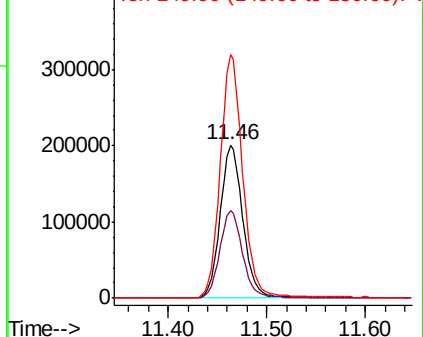


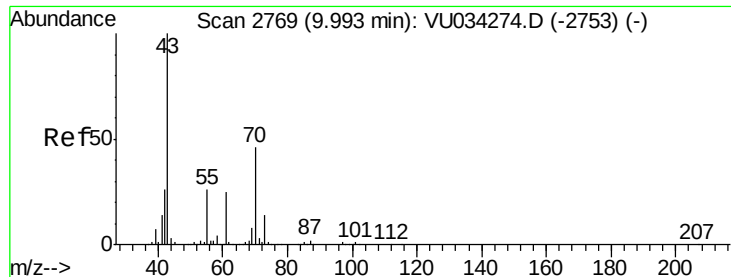
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034311.D
Acq: 06 Sep 2019 02:00

Tgt Ion:152 Resp: 326625
Ion Ratio Lower Upper
152 100
115 57.1 39.1 117.3
150 156.9 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: 0.220 ug/l

RT: 9.91 min Scan# 2744

Delta R.T. -0.08 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B4-(0)

Tgt Ion: 43 Resp: 1885

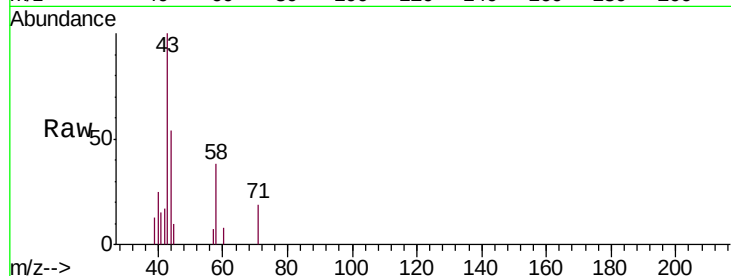
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 0.0 21.2 31.8#

61 0.0 20.4 30.6#

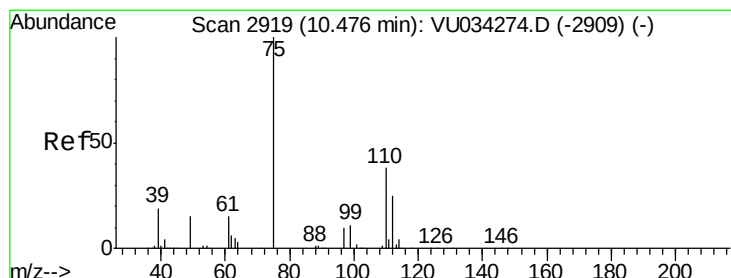
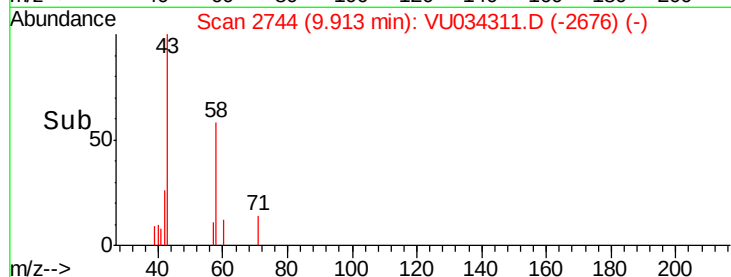
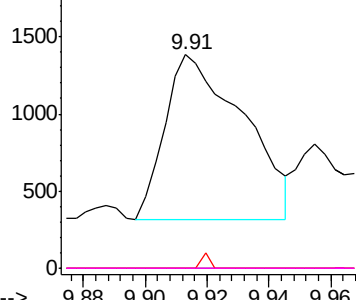


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 21.883 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034311.D

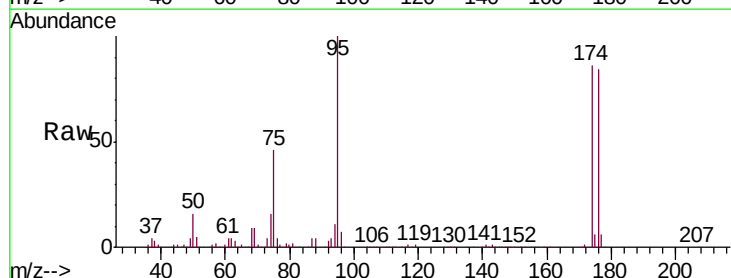
Acq: 06 Sep 2019 02:00

Tgt Ion: 75 Resp: 156021

Ion Ratio Lower Upper

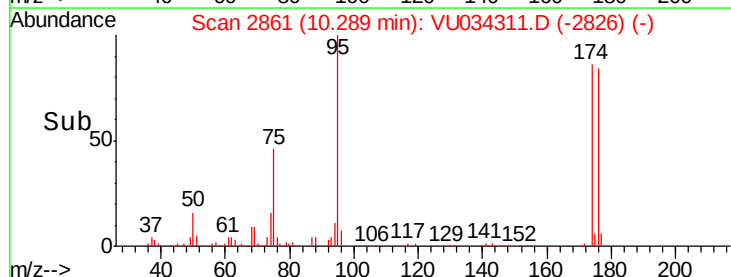
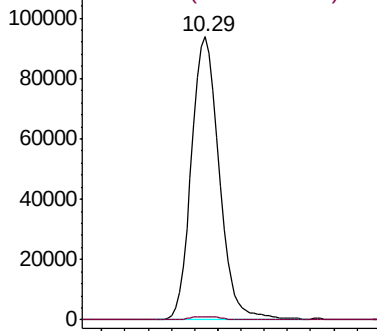
75 100

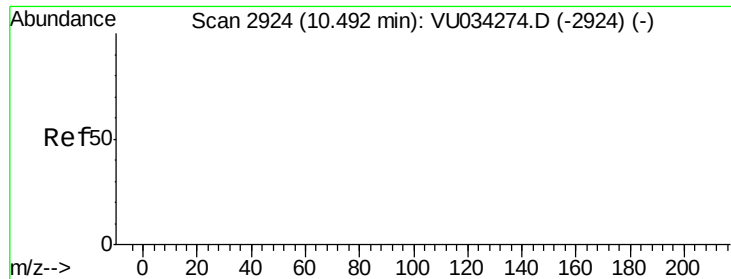
77 1.2 20.8 62.2#



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: 73.592 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034311.D

Acq: 06 Sep 2019 02:00

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B4-(0)

Tgt Ion: 75 Resp: 156021

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

