

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
 Data File : VU034459.D
 Acq On : 10 Sep 2019 18:17
 Operator : JC/SP
 Sample : K4603-23
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E2-(0)

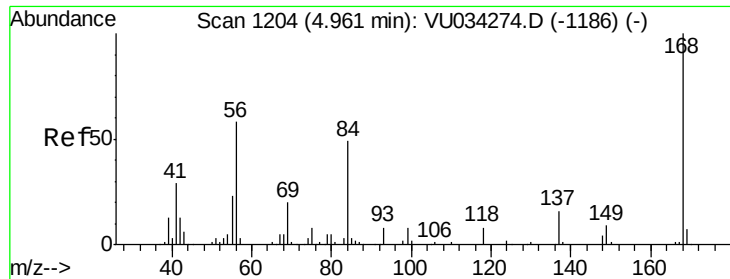
Quant Time: Sep 11 05:57:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	200132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	335057	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	340594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	172188	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	202140	66.76	ug/l	0.00
Spiked Amount			Recovery	=	133.52%	
35) Dibromofluoromethane	4.86	113	174192	55.87	ug/l	0.00
Spiked Amount			Recovery	=	111.74%	
50) Toluene-d8	7.55	98	572254	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	10.29	95	190289	42.08	ug/l	0.00
Spiked Amount			Recovery	=	84.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	324	Below Cal		89
6) Chloroethane	1.63	64	99	Below Cal	#	43
10) Methyl Iodide	2.40	142	87	3.884	ug/l #	43
11) Tert butyl alcohol	2.82	59	6327	9.890	ug/l #	73
16) Acetone	2.31	43	14034	8.956	ug/l	99
18) Methyl Acetate	2.61	43	3695	0.969	ug/l	94
20) Methylene Chloride	2.69	84	9054	3.153	ug/l	98
25) 2-Butanone	4.29	43	1321	0.632	ug/l #	76
31) Cyclohexane	4.96	56	3148	0.888	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	13557	3.731	ug/l #	49
38) Carbon Tetrachloride	4.96	117	17970	4.632	ug/l #	16
43) Isopropyl Acetate	5.53	43	65074	9.710	ug/l	100
48) Methyl methacrylate	6.68	41	117843	37.020	ug/l #	37
49) 1,4-Dioxane	6.69	88	160	2.302	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	61647	13.288	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	29969	5.948	ug/l #	66
56) Ethyl methacrylate	7.91	69	223	3.118	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	5331	0.980	ug/l #	43
59) 2-Hexanone	8.40	43	70937	20.468	ug/l #	53
74) N-amyl acetate	9.92	43	2100	0.466	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	89841	23.903	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	89841	80.384	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

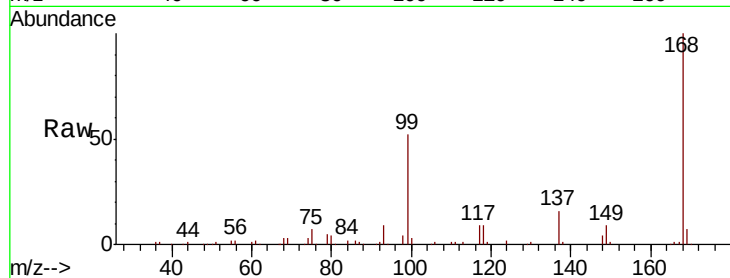
PAR-E2-(0)

Tgt Ion: 168 Resp: 200132

Ion Ratio Lower Upper

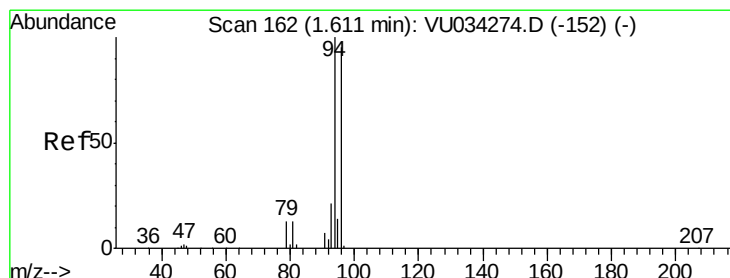
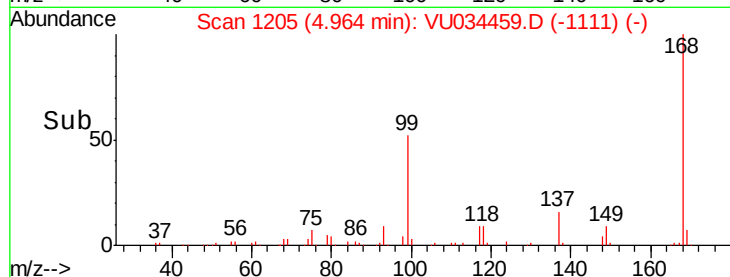
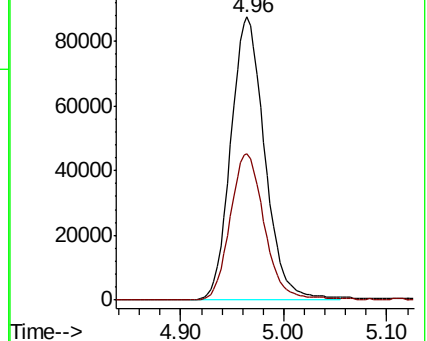
168 100

99 51.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034459.D (-1111) (-)

Ion 98.90 (98.60 to 99.60): VU034459.D (-1111) (-)



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034459.D

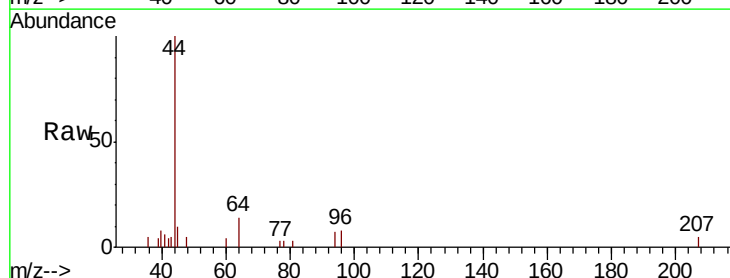
Acq: 10 Sep 2019 18:17

Tgt Ion: 94 Resp: 324

Ion Ratio Lower Upper

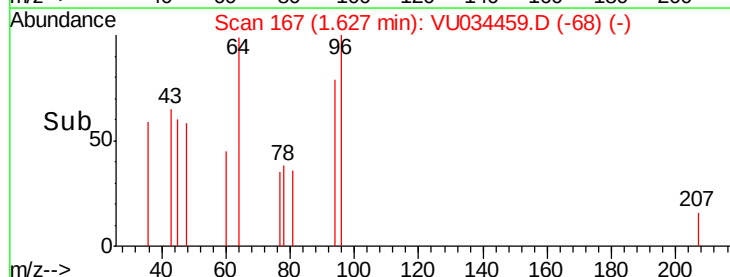
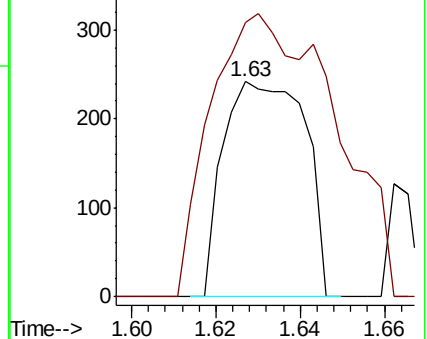
94 100

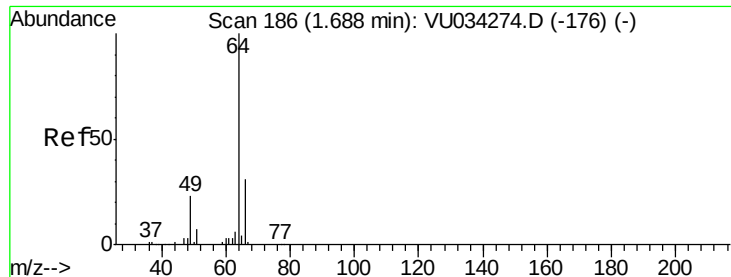
96 84.3 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034459.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034459.D (-68) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. -0.06 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

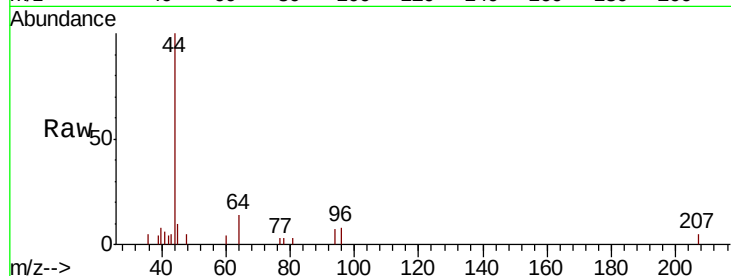
PAR-E2-(0)

Tgt Ion: 64 Resp: 99

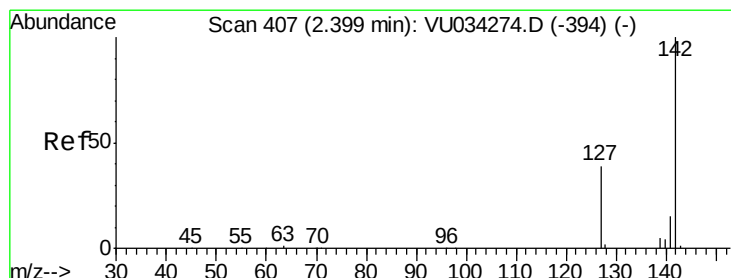
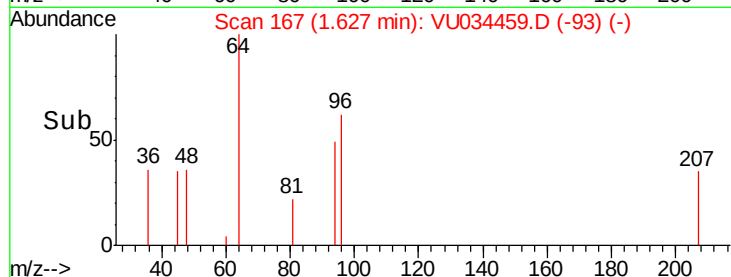
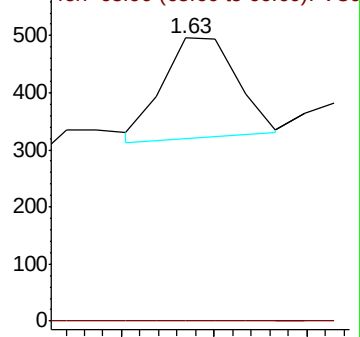
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)



#10

Methyl Iodide

Concen: 3.884 ug/l

RT: 2.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

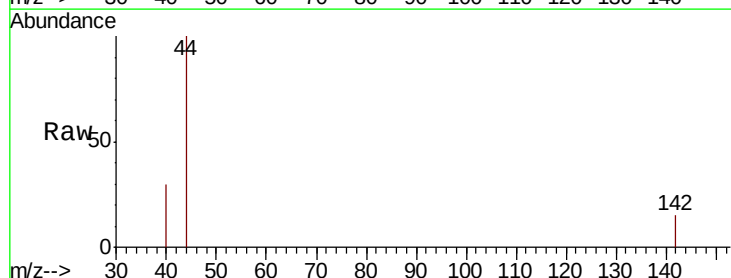
Tgt Ion: 142 Resp: 87

Ion Ratio Lower Upper

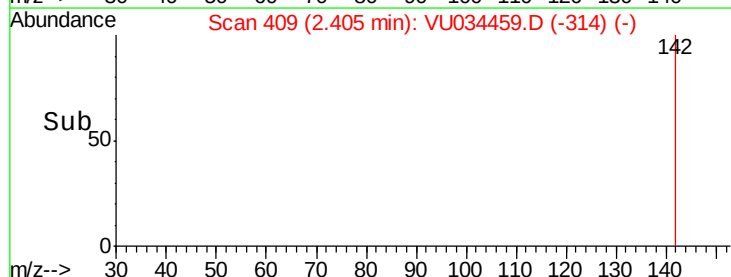
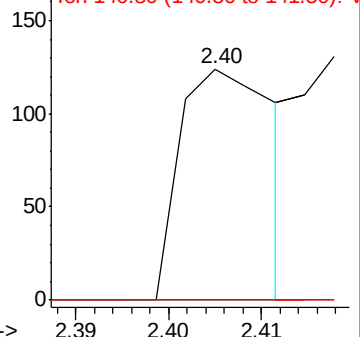
142 100

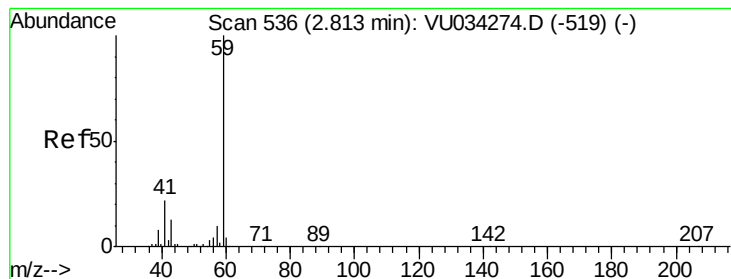
127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)



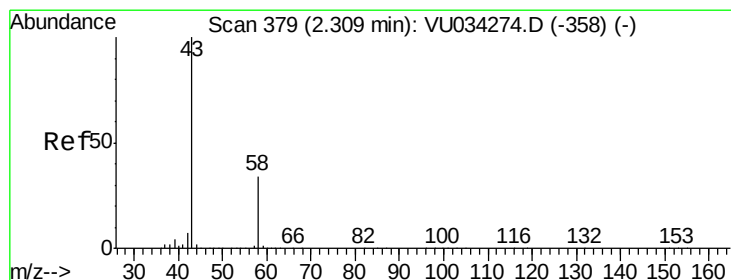
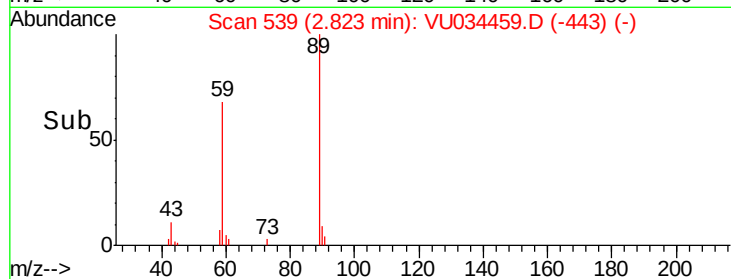
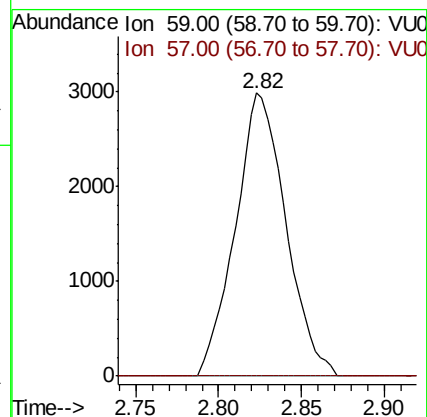
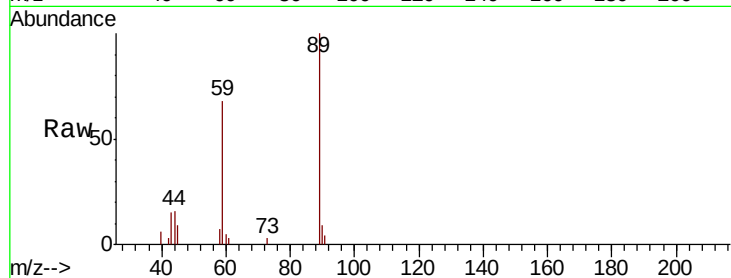


#11

Tert butyl alcohol
 Concen: 9.890 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E2-(0)

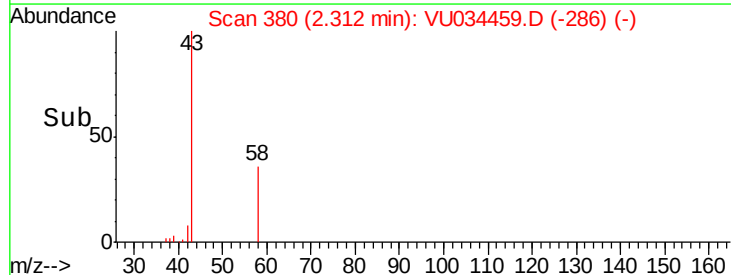
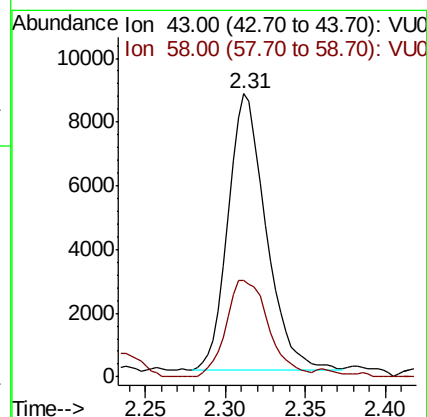
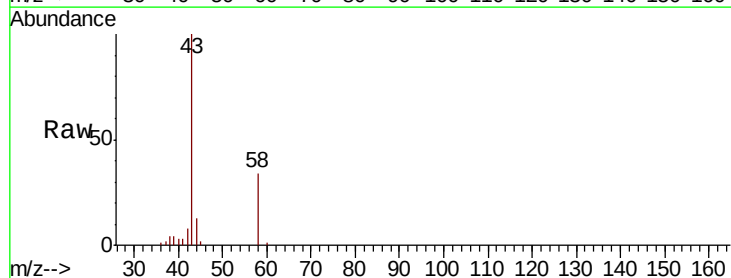
Tgt Ion: 59 Resp: 6327
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

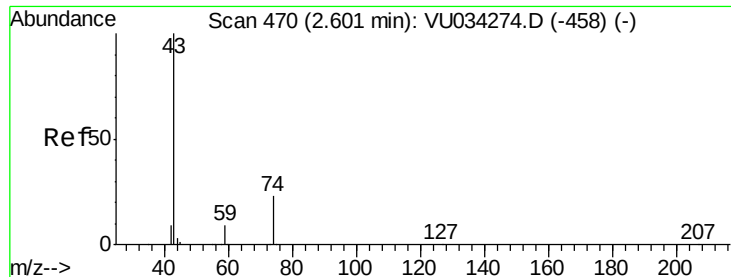


#16

Acetone
 Concen: 8.956 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Tgt Ion: 43 Resp: 14034
 Ion Ratio Lower Upper
 43 100
 58 35.0 27.6 41.4





#18

Methyl Acetate

Concen: 0.969 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.01 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

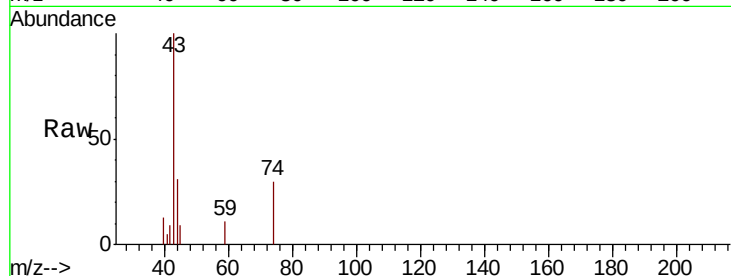
PAR-E2-(0)

Tgt Ion: 43 Resp: 3695

Ion Ratio Lower Upper

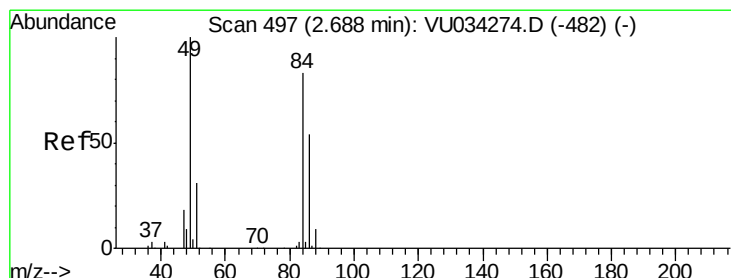
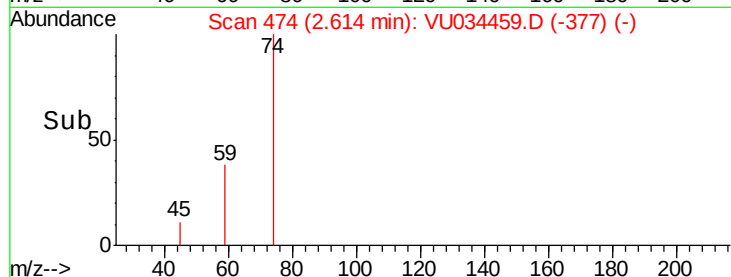
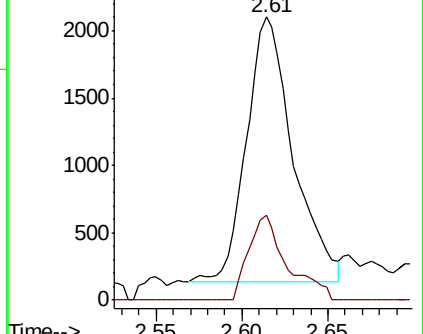
43 100

74 26.4 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VU034459.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU034459.D (-377) (-)



#20

Methylene Chloride

Concen: 3.153 ug/l

RT: 2.69 min Scan# 498

Delta R.T. 0.00 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Tgt Ion: 84 Resp: 9054

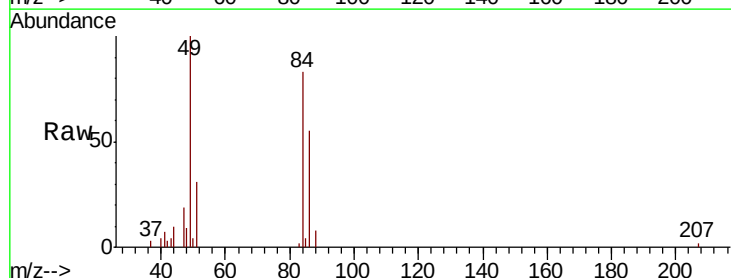
Ion Ratio Lower Upper

84 100

49 121.1 96.0 144.0

51 37.2 30.0 45.0

86 66.8 51.4 77.0

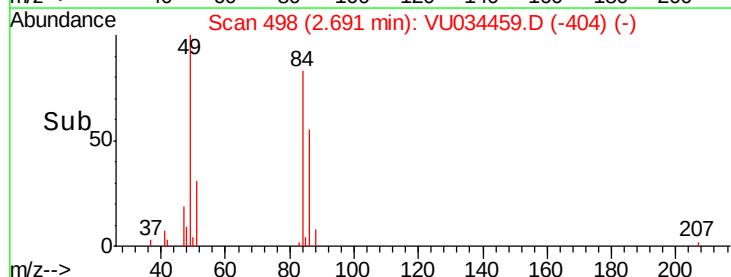
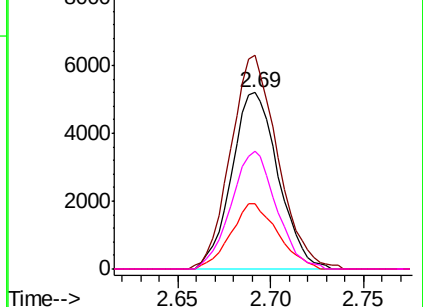


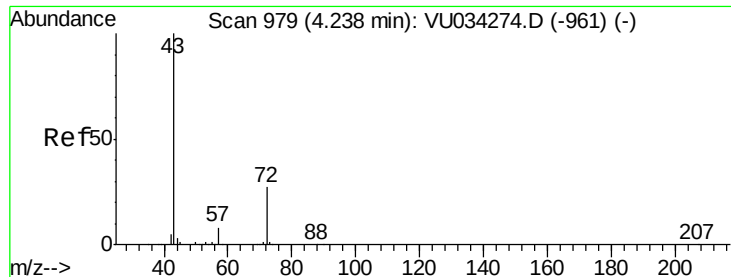
Abundance Ion 83.90 (83.60 to 84.60): VU034459.D (-404) (-)

Ion 48.90 (48.60 to 49.60): VU034459.D (-404) (-)

Ion 50.90 (50.60 to 51.60): VU034459.D (-404) (-)

Ion 85.90 (85.60 to 86.60): VU034459.D (-404) (-)





#25

2-Butanone

Concen: 0.632 ug/l

RT: 4.29 min Scan# 995

Delta R.T. 0.05 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

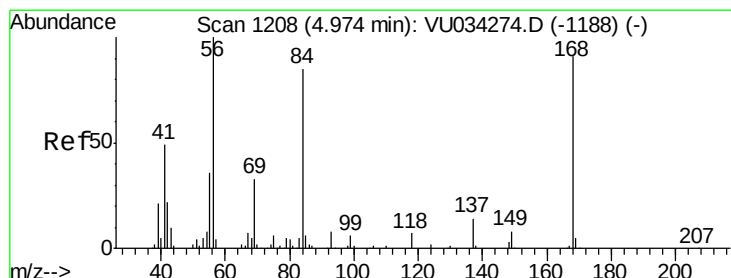
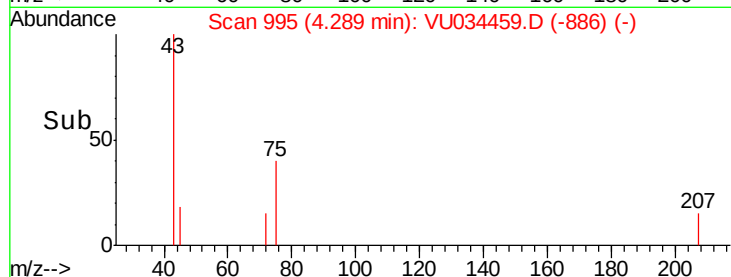
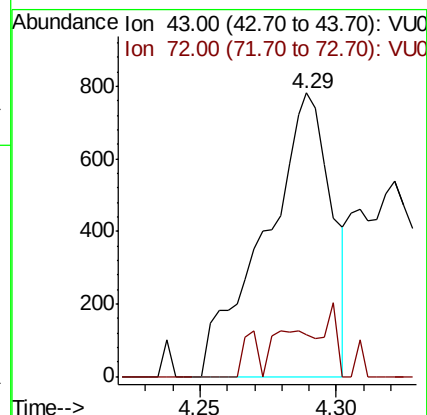
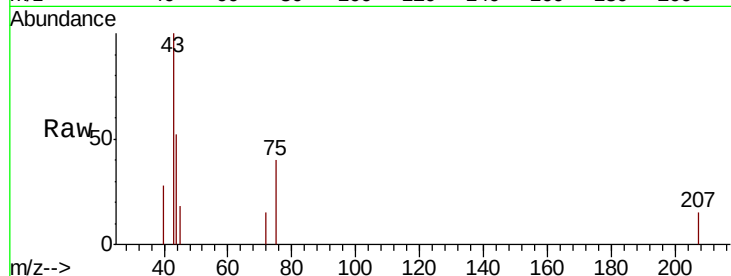
PAR-E2-(0)

Tgt Ion: 43 Resp: 1321

Ion Ratio Lower Upper

43 100

72 14.8 21.8 32.6#



#31

Cyclohexane

Concen: 0.888 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

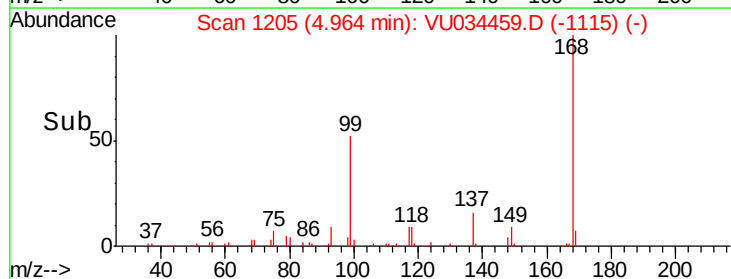
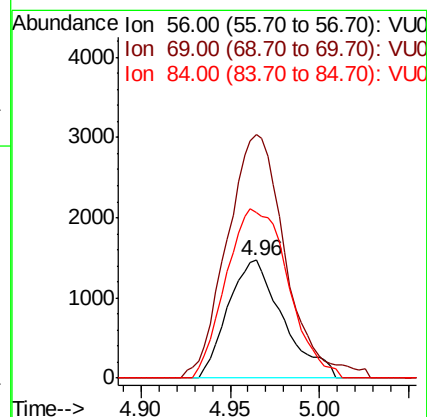
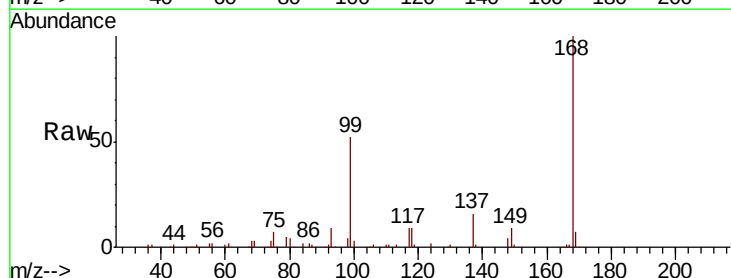
Tgt Ion: 56 Resp: 3148

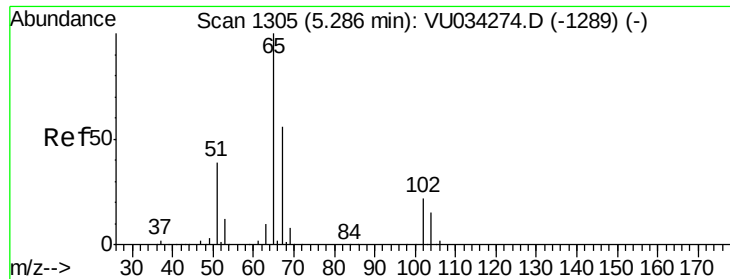
Ion Ratio Lower Upper

56 100

69 197.1 26.7 40.1#

84 140.4 68.2 102.4#

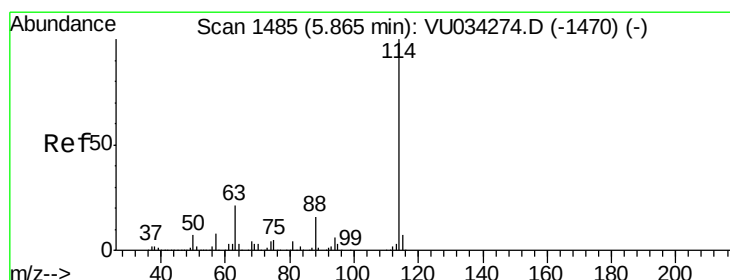
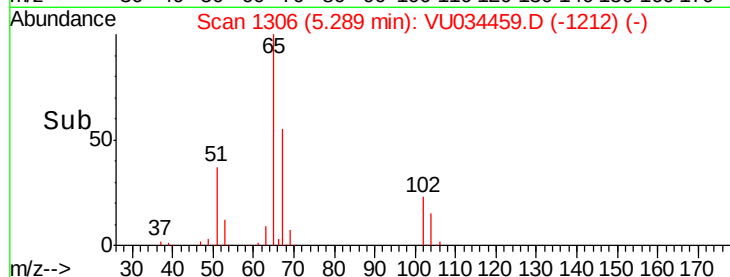
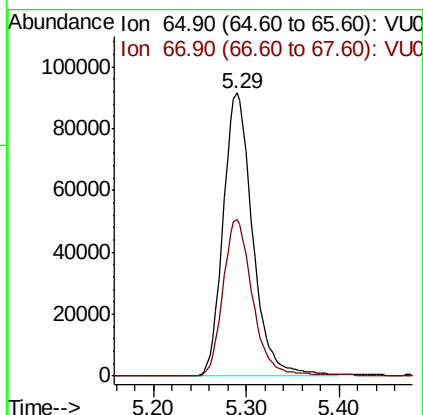
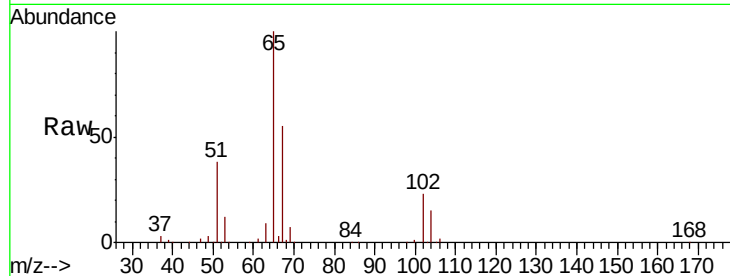




#33
 1,2-Dichloroethane-d4
 Concen: 66.756 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

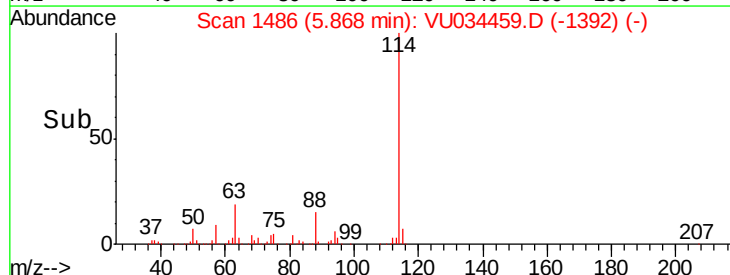
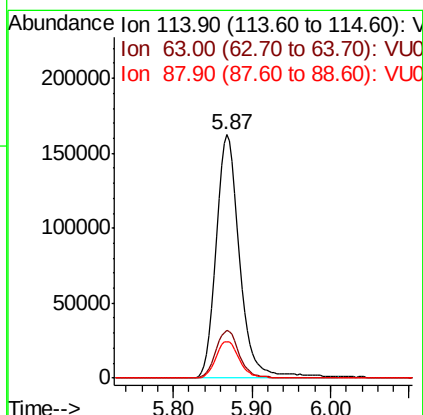
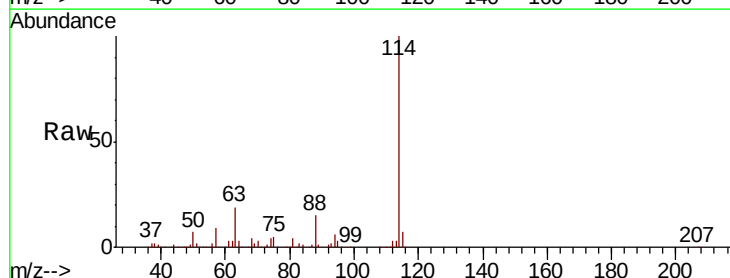
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E2-(0)

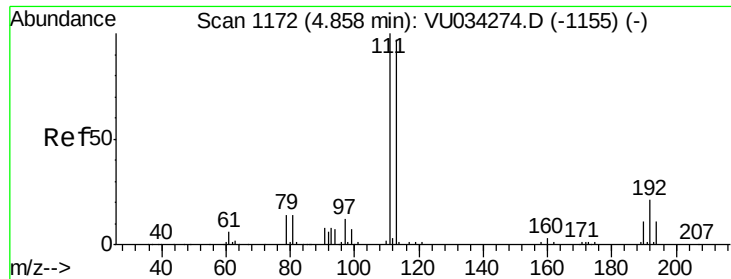
Tgt Ion: 65 Resp: 202140
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Tgt Ion: 114 Resp: 335057
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 42.4
 88 15.1 0.0 32.4

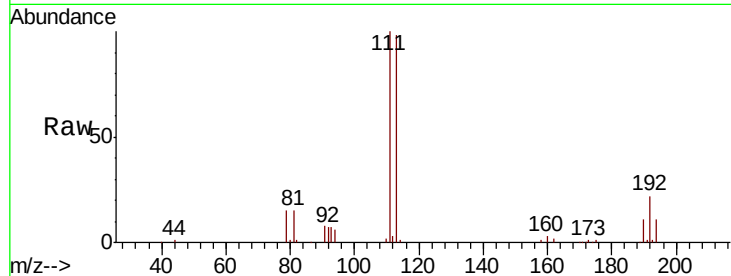




#35
 Dibromofluoromethane
 Concen: 55.872 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E2-(0)

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.5	122.3
192	21.9	17.8	26.8

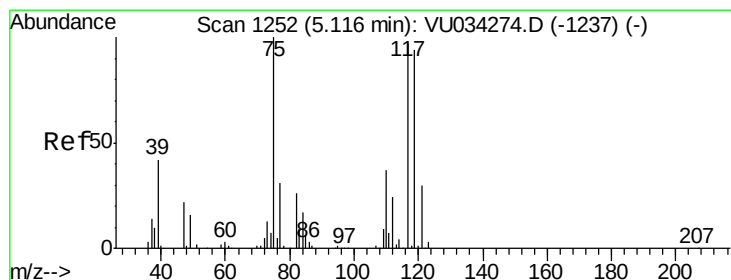
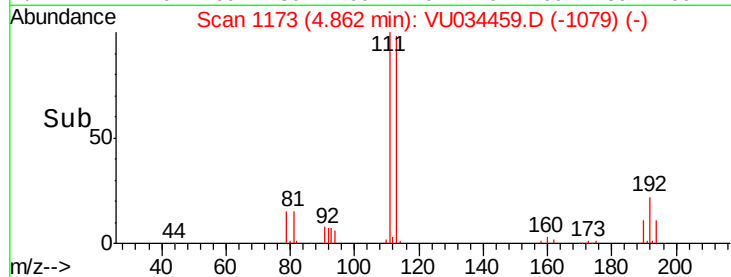
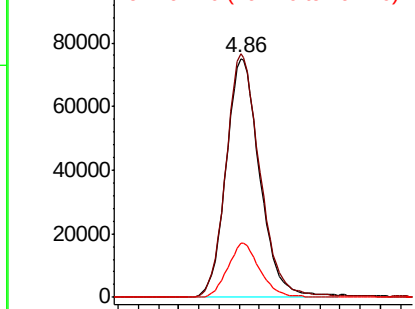


Abundance

Ion 112.80 (112.50 to 113.50): V

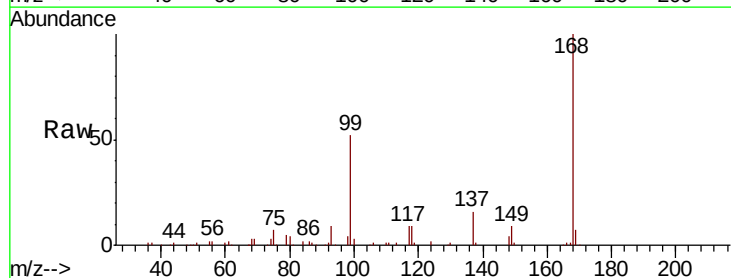
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 3.731 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.3	54.9#
77	0.0	24.9	37.3#

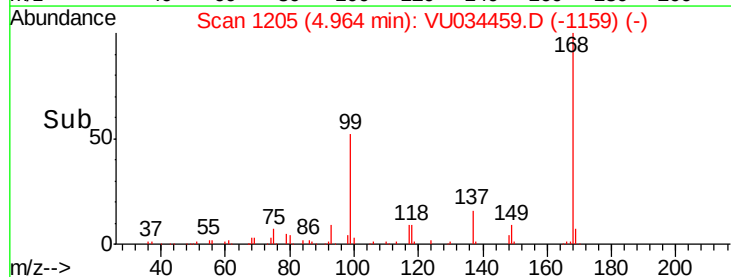
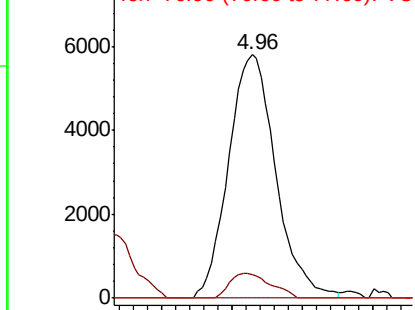


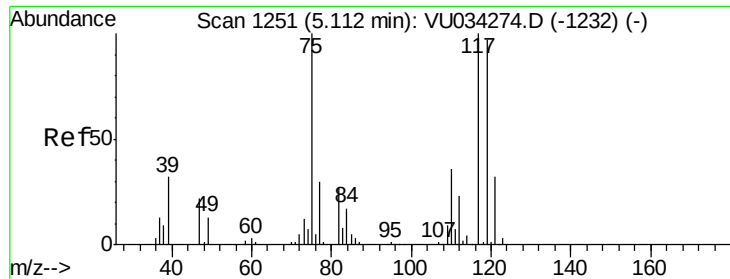
Abundance

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: 4.632 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

PAR-E2-(0)

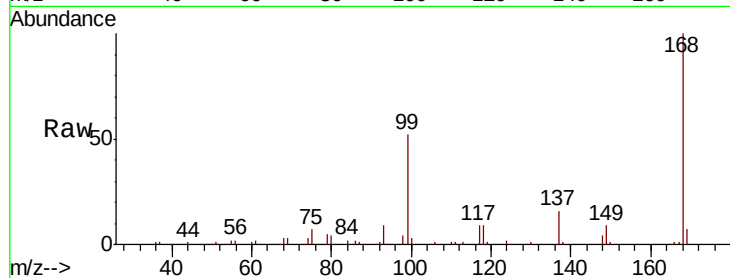
Tgt Ion:117 Resp: 17970

Ion Ratio Lower Upper

117 100

119 5.7 77.8 116.6#

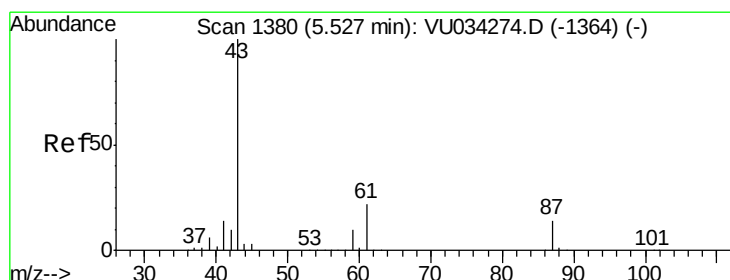
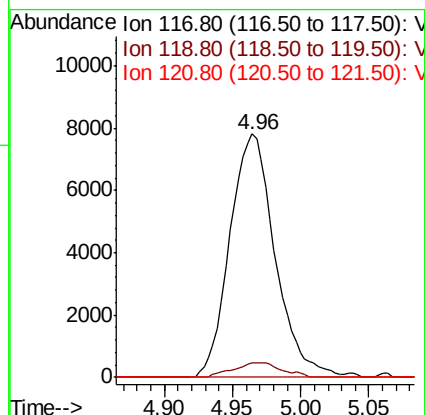
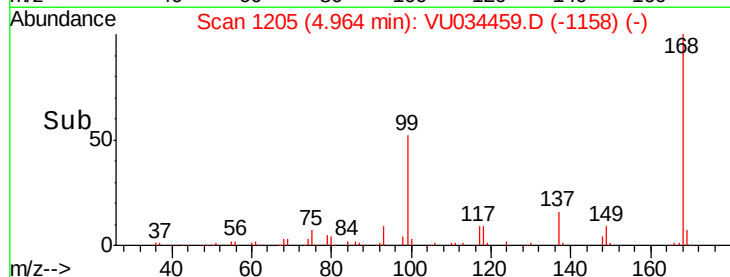
121 0.0 25.2 37.8#



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: 9.710 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

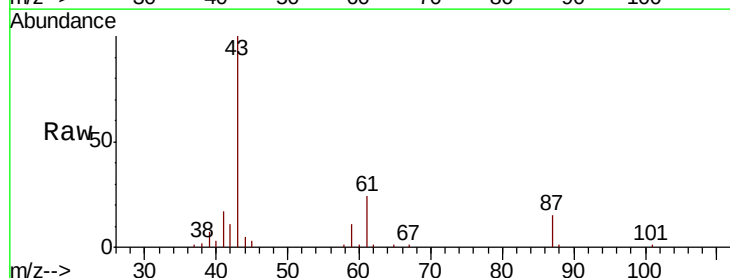
Tgt Ion: 43 Resp: 65074

Ion Ratio Lower Upper

43 100

61 21.2 17.1 25.7

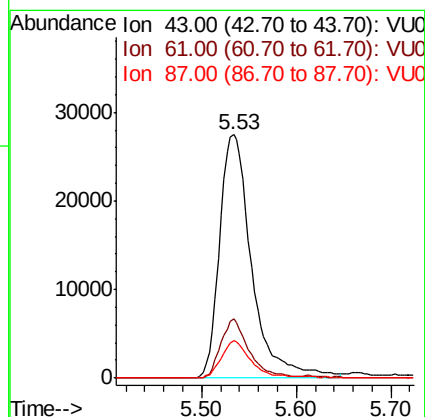
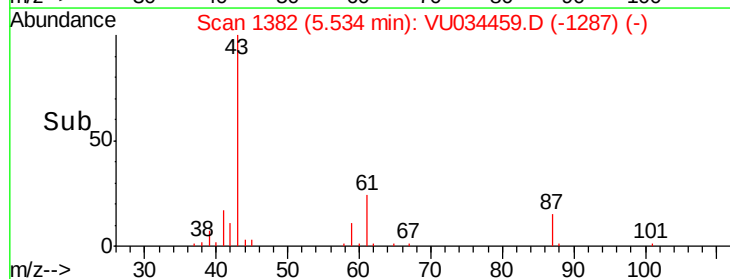
87 14.1 11.1 16.7

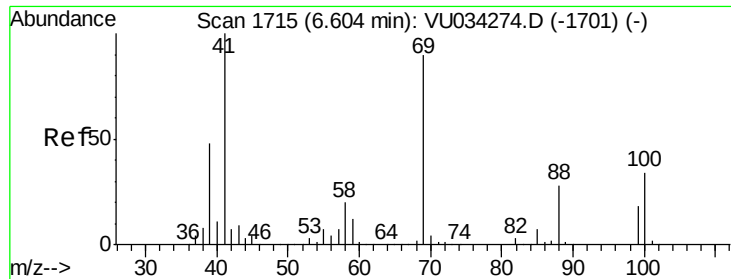


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

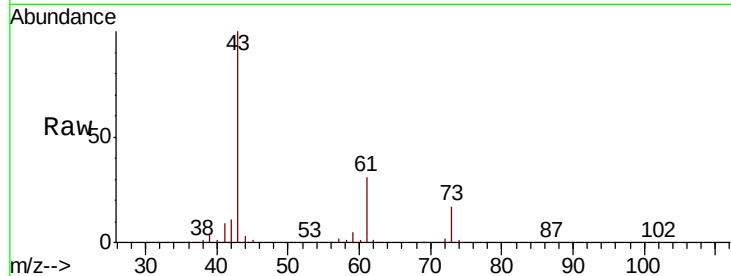




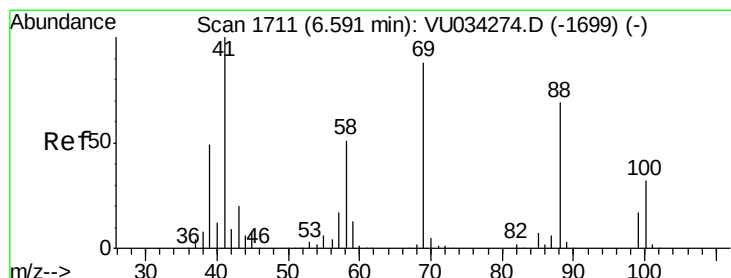
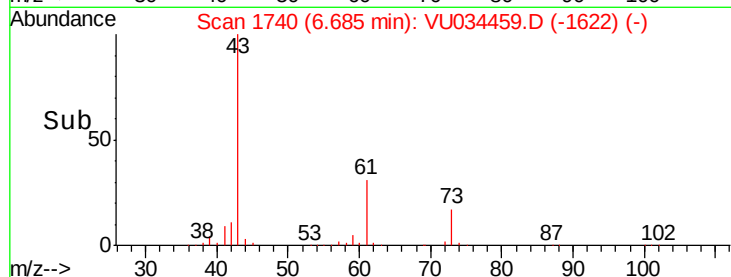
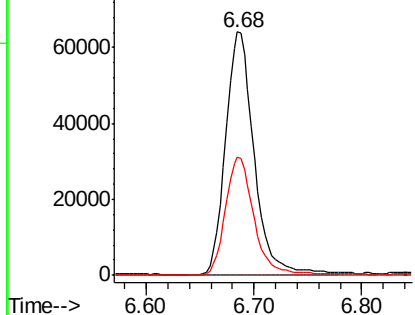
#48
Methyl methacrylate
Concen: 37.020 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034459.D
Acq: 10 Sep 2019 18:17

Instrument :
MSVOA_U
ClientSampleId :
PAR-E2-(0)

Tgt Ion: 41 Resp: 117843
Ion Ratio Lower Upper
41 100
69 0.1 72.8 109.2#
39 49.6 38.6 58.0

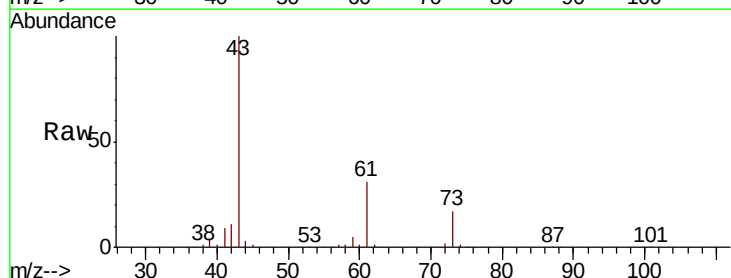


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

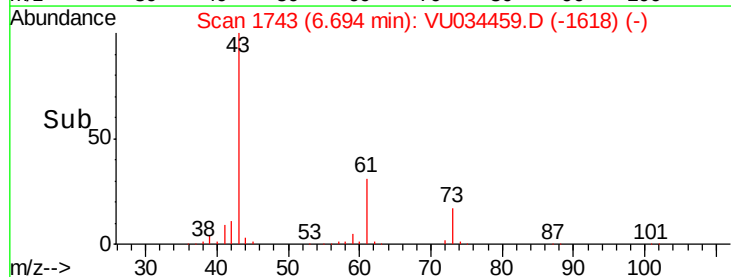
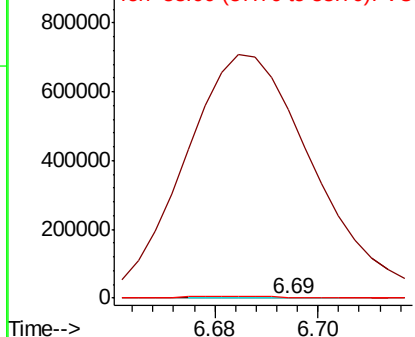


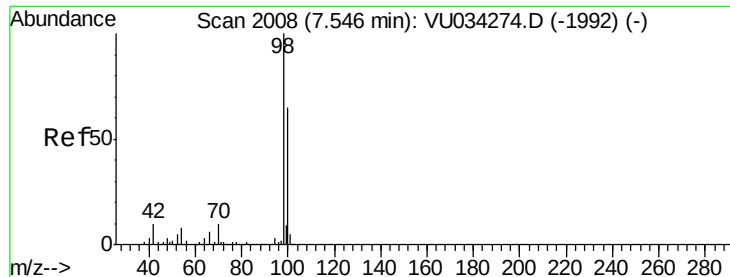
#49
1,4-Dioxane
Concen: 2.302 ug/l
RT: 6.69 min Scan# 1743
Delta R.T. 0.10 min
Lab File: VU034459.D
Acq: 10 Sep 2019 18:17

Tgt Ion: 88 Resp: 160
Ion Ratio Lower Upper
88 100
43 804759.4 23.8 35.6#
58 4938.8 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

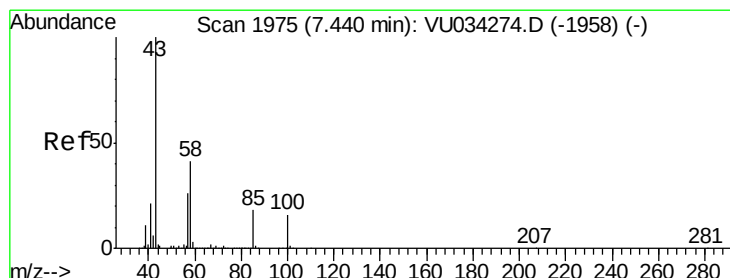
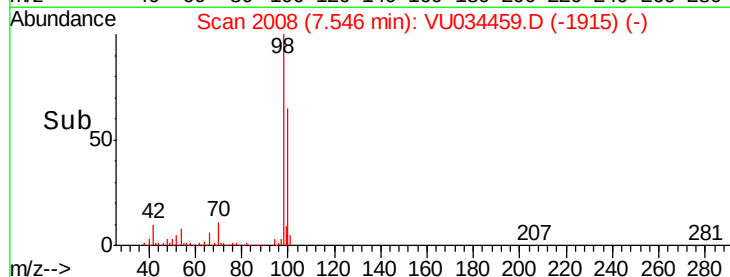
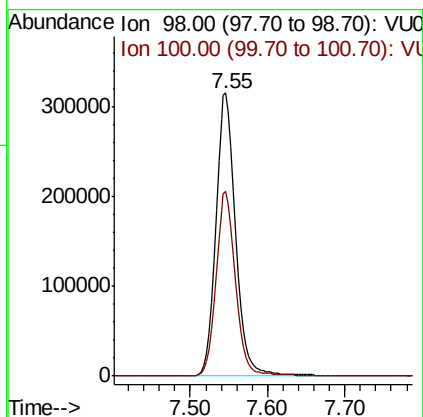
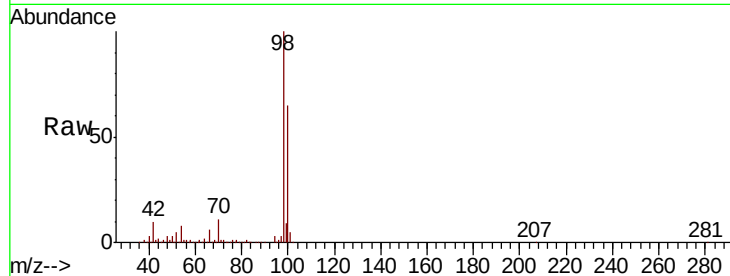




#50
Toluene-d8
Concen: 48.855 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034459.D
Acq: 10 Sep 2019 18:17

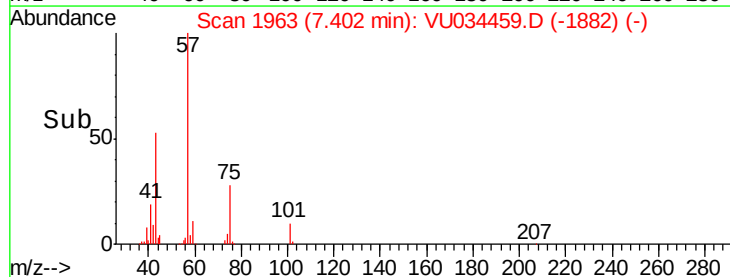
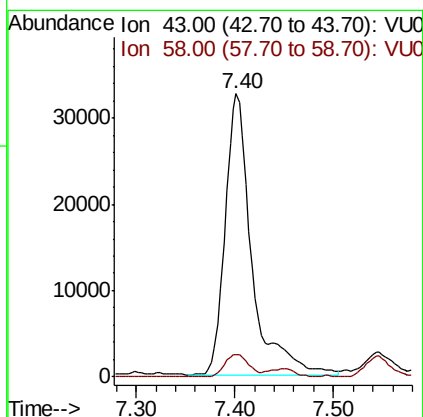
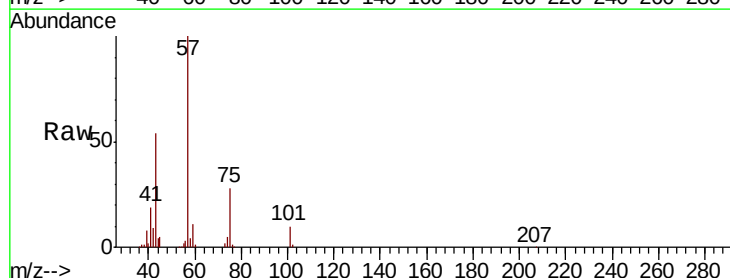
Instrument :
MSVOA_U
ClientSampleId :
PAR-E2-(0)

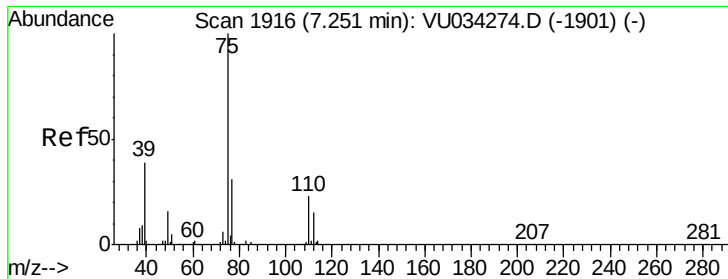
Tgt Ion: 98 Resp: 572254
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 13.288 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034459.D
Acq: 10 Sep 2019 18:17

Tgt Ion: 43 Resp: 61647
Ion Ratio Lower Upper
43 100
58 7.3 33.0 49.4#



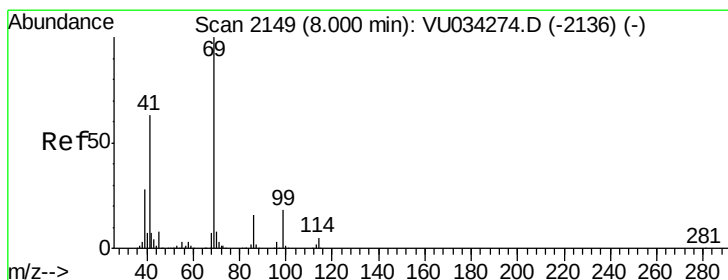
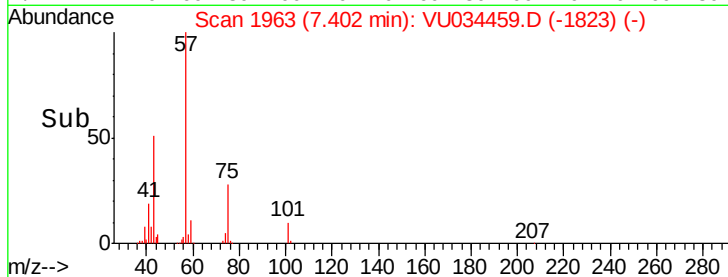
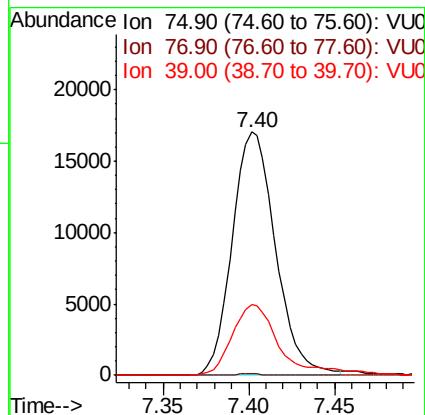
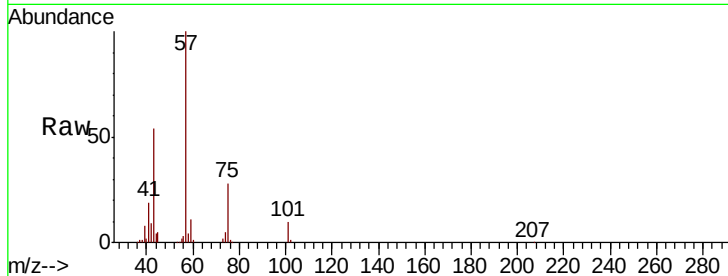


#54

cis-1,3-Dichloropropene
 Concen: 5.948 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E2-(0)

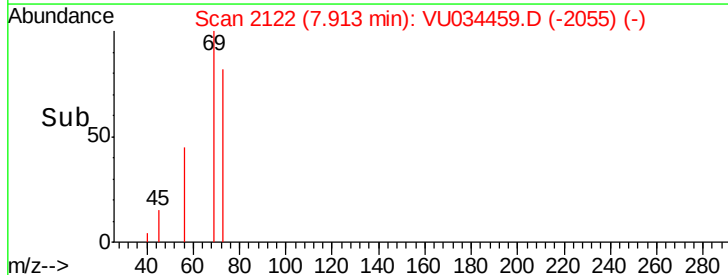
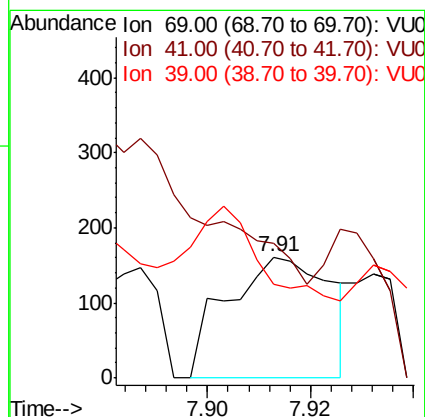
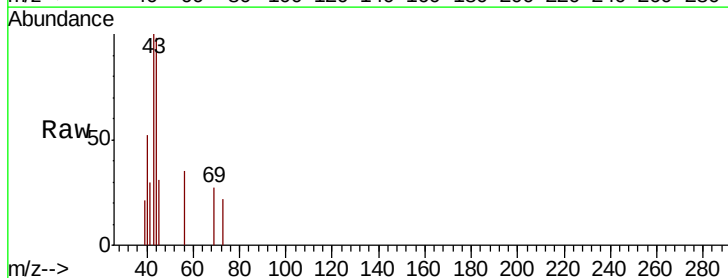
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.1	37.7#
39	28.8	31.2	46.8#

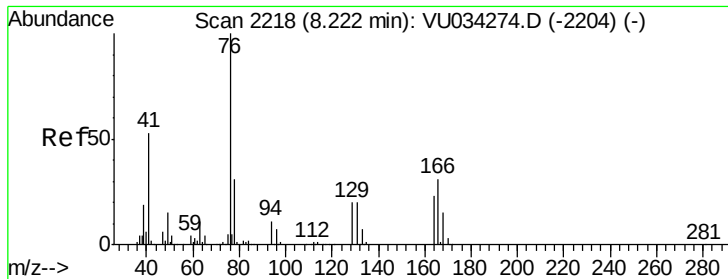


#56

Ethyl methacrylate
 Concen: 3.118 ug/l
 RT: 7.91 min Scan# 2122
 Delta R.T. -0.09 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

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

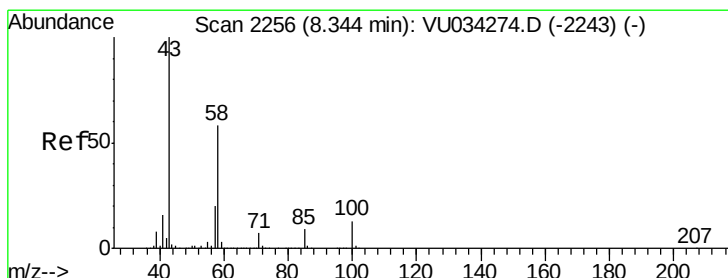
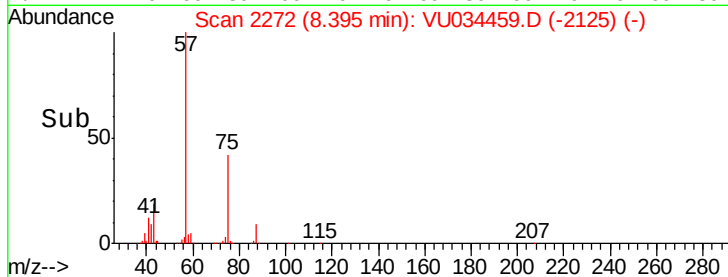
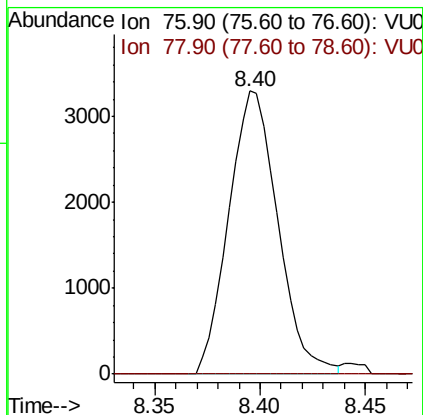
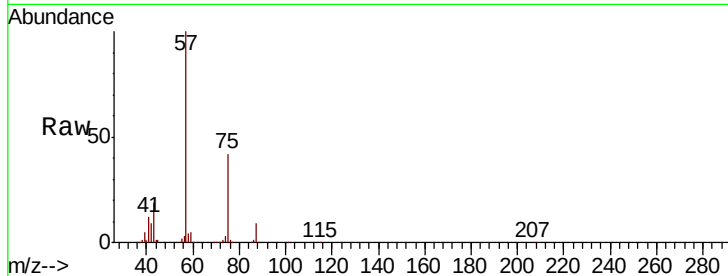




#57
 1,3-Dichloropropane
 Concen: 0.980 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

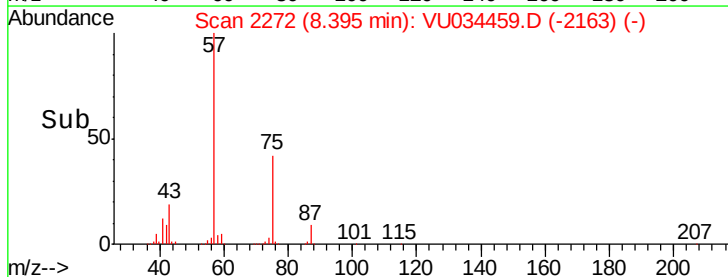
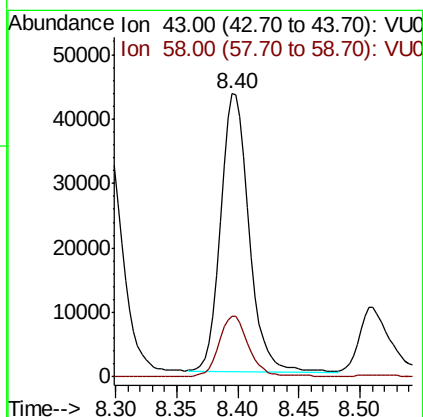
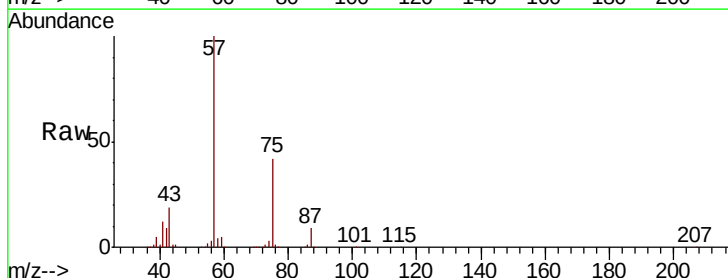
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E2-(0)

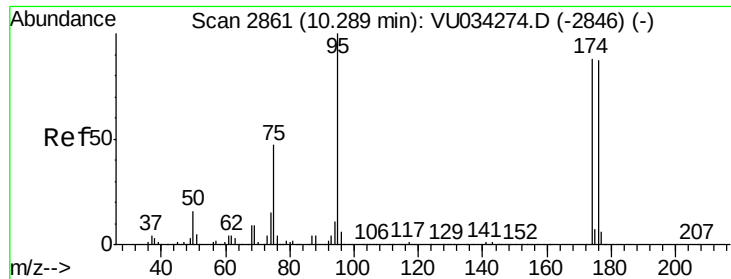
Tgt Ion: 76 Resp: 5331
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 20.468 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.05 min
 Lab File: VU034459.D
 Acq: 10 Sep 2019 18:17

Tgt Ion: 43 Resp: 70937
 Ion Ratio Lower Upper
 43 100
 58 22.8 28.8 86.5#

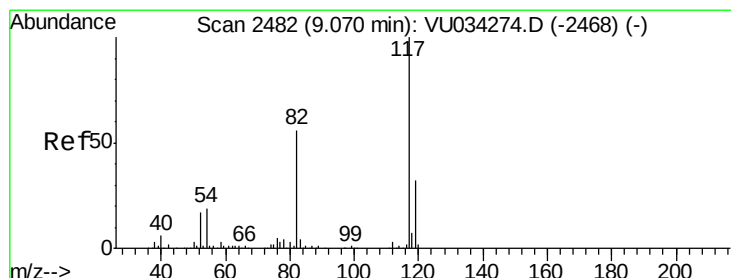
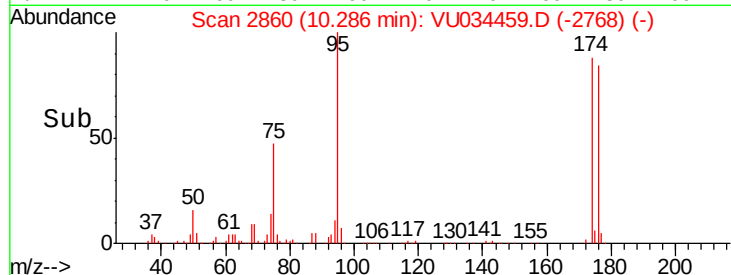
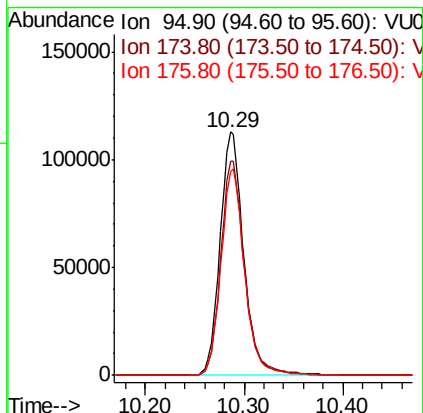
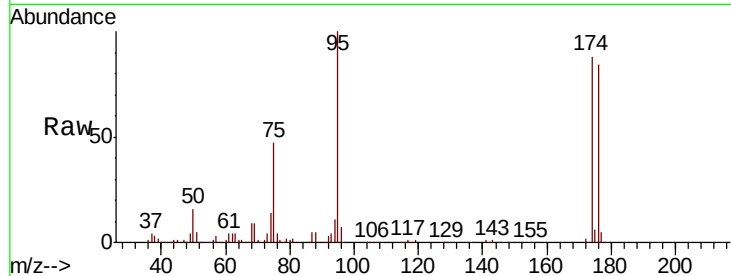




#62
4-Bromofluorobenzene
Concen: 42.077 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034459.D
Acq: 10 Sep 2019 18:17

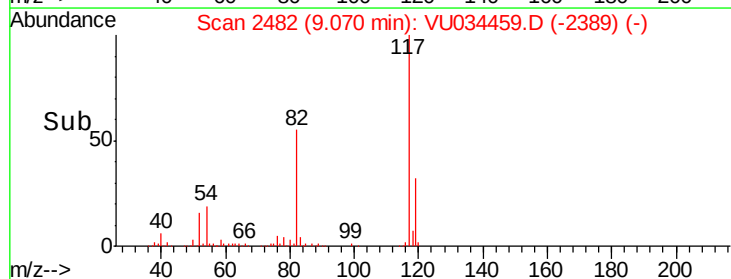
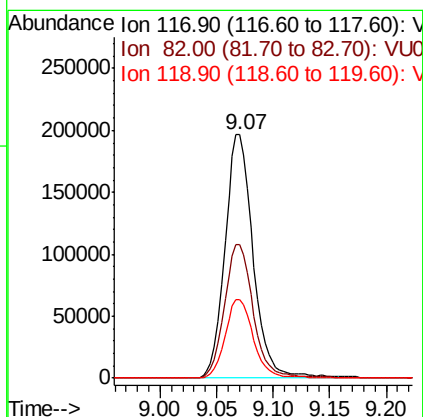
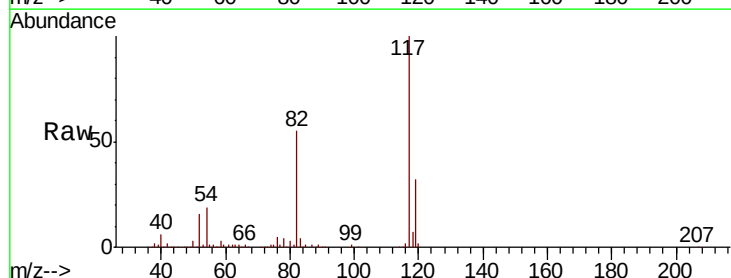
Instrument :
MSVOA_U
ClientSampleId :
PAR-E2-(0)

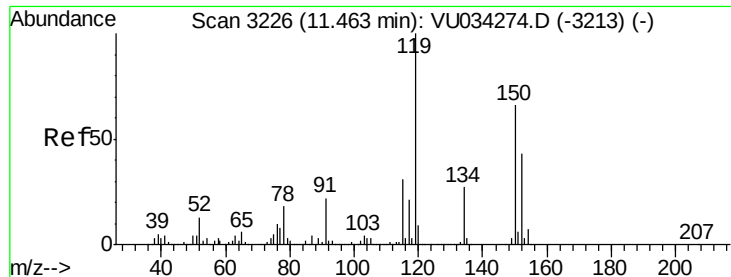
Tgt Ion: 95 Resp: 190289
Ion Ratio Lower Upper
95 100
174 88.6 0.0 175.2
176 84.7 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034459.D
Acq: 10 Sep 2019 18:17

Tgt Ion: 117 Resp: 340594
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 32.5 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: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

PAR-E2-(0)

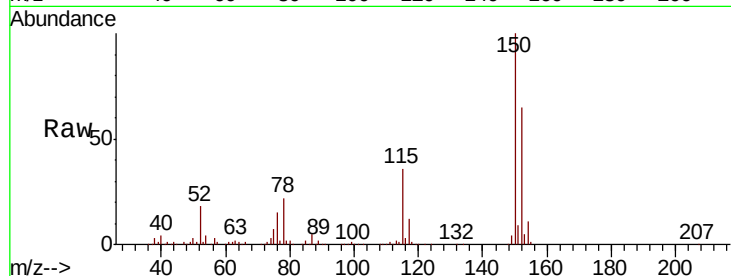
Tgt Ion:152 Resp: 172188

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.3

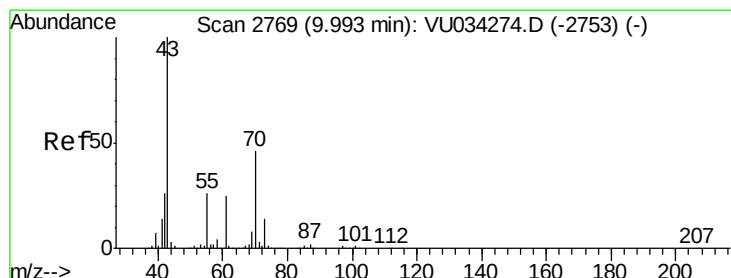
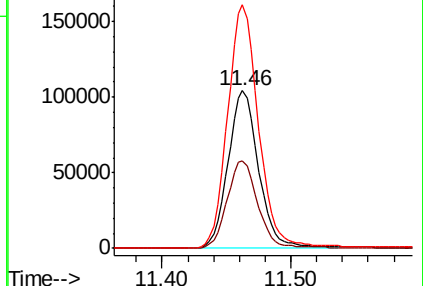
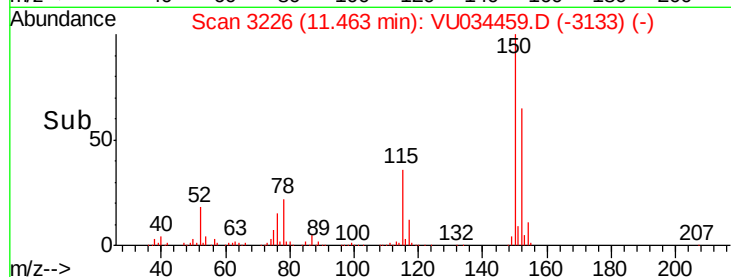
150 156.2 0.0 345.4



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-ethyl acetate

Concen: 0.466 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Tgt Ion: 43 Resp: 2100

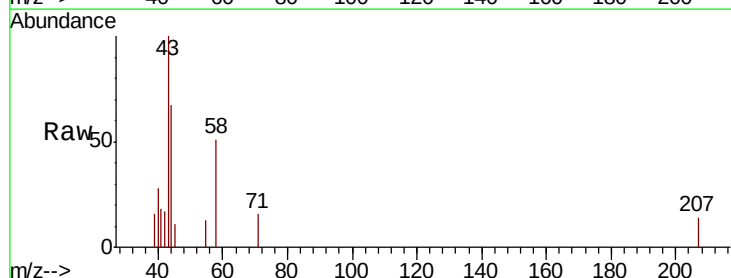
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 6.1 21.2 31.8#

61 0.0 20.4 30.6#

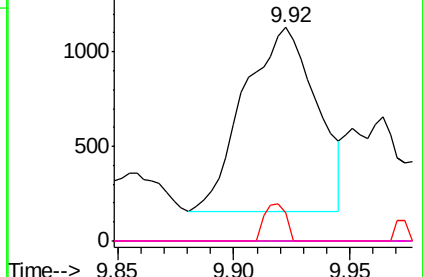
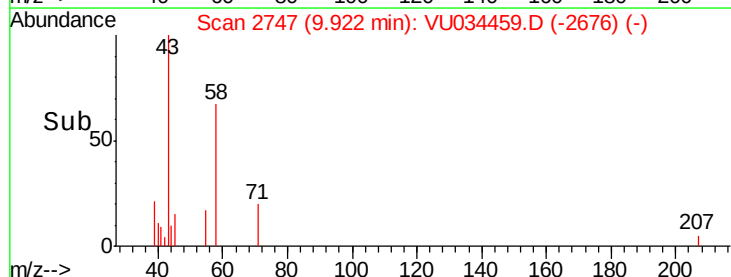


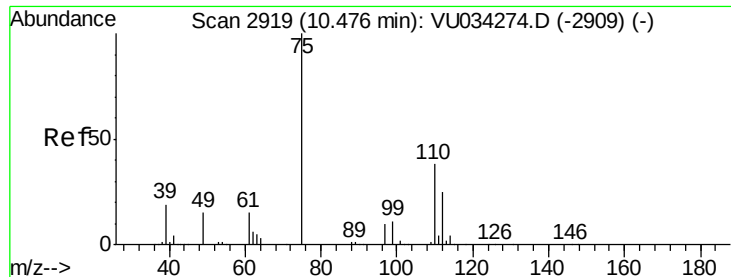
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 23.903 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

Instrument :

MSVOA_U

ClientSampleId :

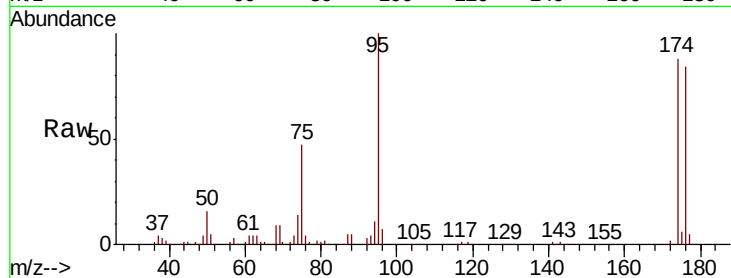
PAR-E2-(0)

Tgt Ion: 75 Resp: 89841

Ion Ratio Lower Upper

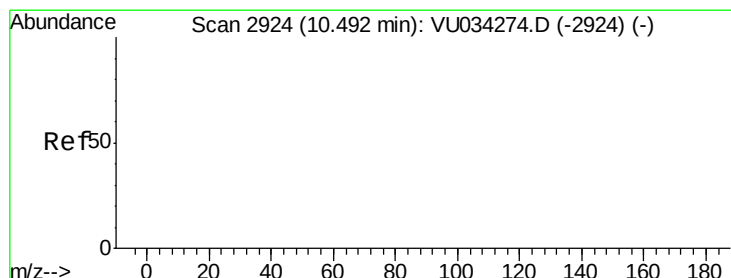
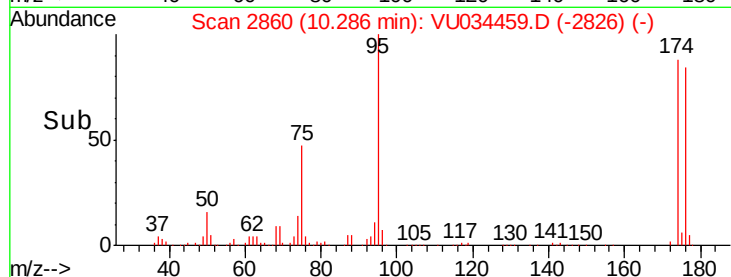
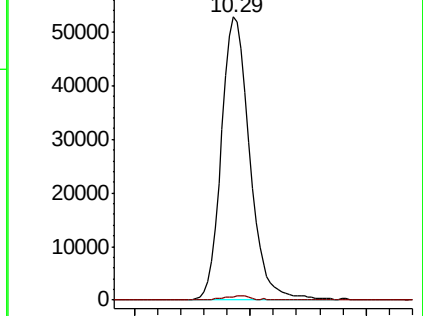
75 100

77 1.5 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU034459.D (-2860) (-)

Ion 77.00 (76.70 to 77.70): VU034459.D (-2860) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 80.384 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034459.D

Acq: 10 Sep 2019 18:17

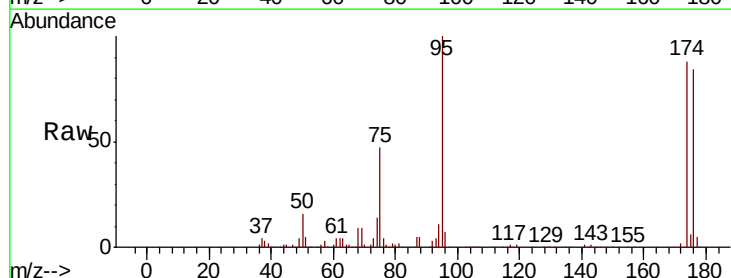
Tgt Ion: 75 Resp: 89841

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034459.D (-2860) (-)

Ion 53.00 (52.70 to 53.70): VU034459.D (-2860) (-)

Ion 88.90 (88.60 to 89.60): VU034459.D (-2860) (-)

