

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034049.D
 Acq On : 29 Aug 2019 01:27
 Operator : JC/SP
 Sample : K4525-39
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-C-(0)

Quant Time: Aug 29 04:22:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	474597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	762934	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	746433	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	361830	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	302230	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
35) Dibromofluoromethane	4.86	113	249171	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	7.55	98	977540	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
62) 4-Bromofluorobenzene	10.29	95	338831	43.96	ug/l	0.00
Spiked Amount			Recovery	=	87.92%	

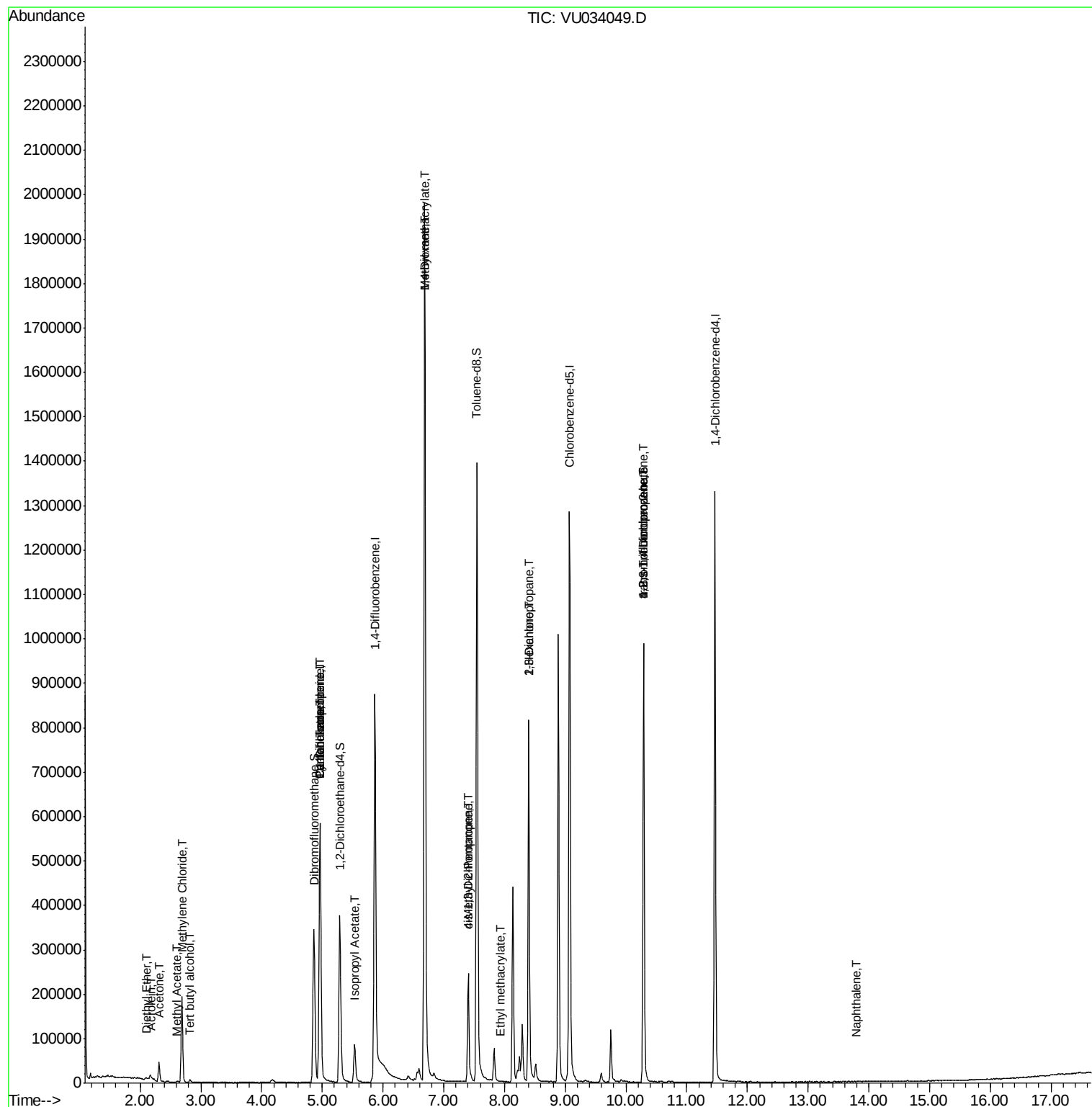
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	654	Below Cal	#	70
5) Bromomethane	1.63	94	432	Below Cal		87
8) Diethyl Ether	2.10	74	888	0.282	ug/l	59
11) Tert butyl alcohol	2.82	59	3416	2.436	ug/l #	73
13) Acrolein	2.18	56	184	0.312	ug/l #	1
16) Acetone	2.31	43	45396	14.630	ug/l	99
18) Methyl Acetate	2.61	43	4370	0.545	ug/l #	76
20) Methylene Chloride	2.69	84	85558	14.565	ug/l	96
31) Cyclohexane	4.96	56	8754	0.964	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33138	4.592	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42889	6.157	ug/l #	17
43) Isopropyl Acetate	5.53	43	100883	8.206	ug/l	98
48) Methyl methacrylate	6.68	41	175400	29.566	ug/l #	40
49) 1,4-Dioxane	6.68	88	145	0.975	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	86719	10.214	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	45685	4.975	ug/l #	63
56) Ethyl methacrylate	7.94	69	214	0.994	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	8276	0.857	ug/l #	42
59) 2-Hexanone	8.40	43	113564	17.718	ug/l #	52
76) 1,2,3-Trichloropropane	10.29	75	165316	20.272	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	165316	68.260	ug/l #	100
95) Naphthalene	13.80	128	47	1.792	ug/l #	70

(#) = 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: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampleId :

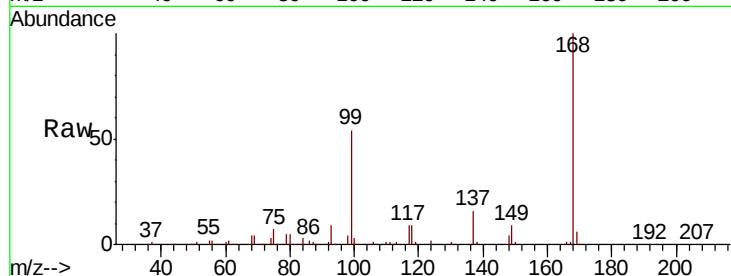
T9-12-13-C-(0)

Tgt Ion:168 Resp: 474597

Ion Ratio Lower Upper

168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

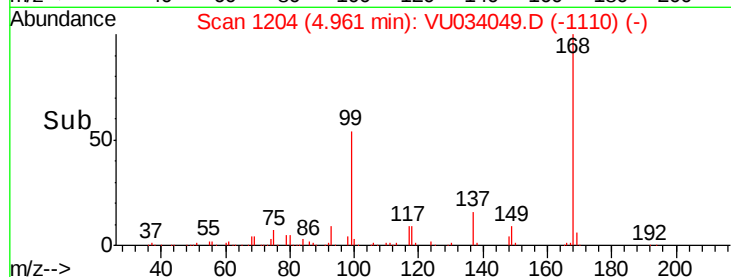
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034049.D

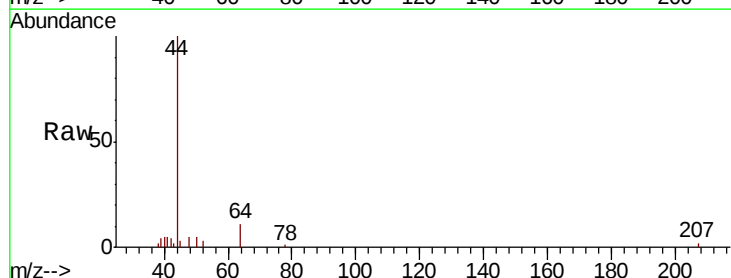
Acq: 29 Aug 2019 01:27

Tgt Ion: 50 Resp: 654

Ion Ratio Lower Upper

50 100

52 49.8 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

500

400

300

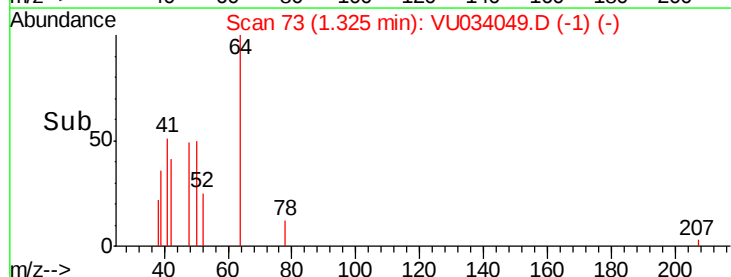
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.03 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampleId :

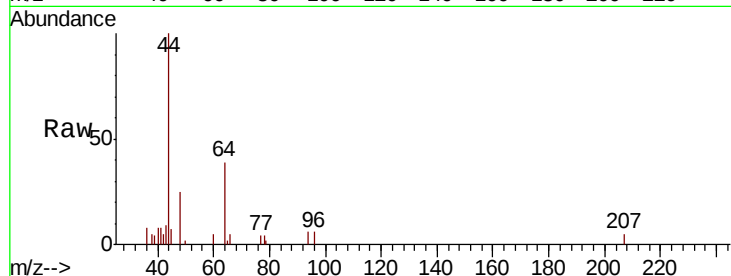
T9-12-13-C-(0)

Tgt Ion: 94 Resp: 432

Ion Ratio Lower Upper

94 100

96 107.8 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

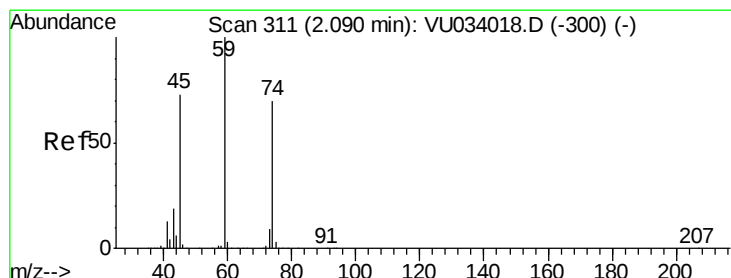
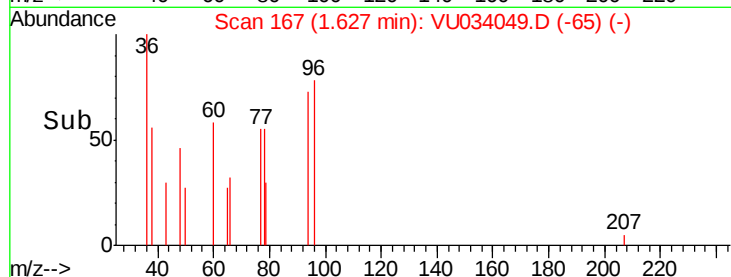
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 0.282 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034049.D

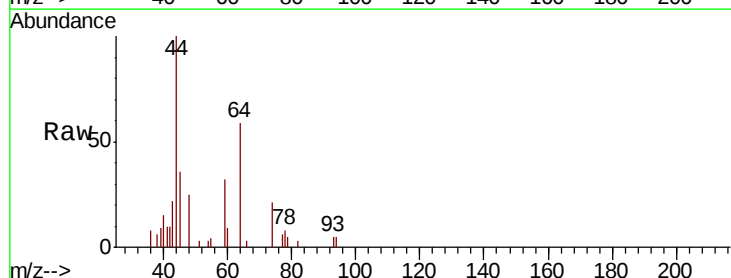
Acq: 29 Aug 2019 01:27

Tgt Ion: 74 Resp: 888

Ion Ratio Lower Upper

74 100

45 145.9 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

1200

1000

800

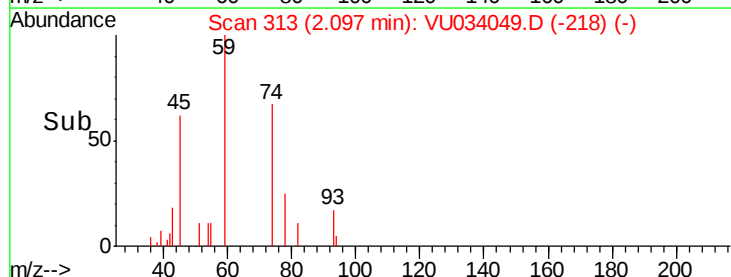
600

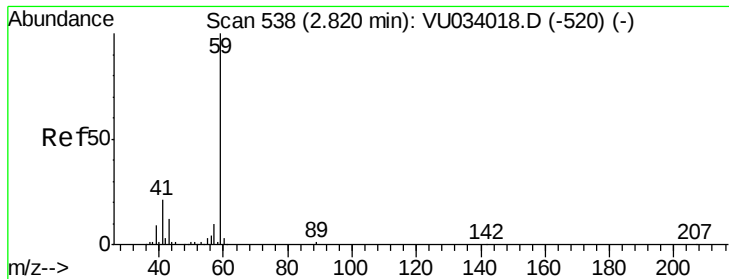
400

200

0

Time-->

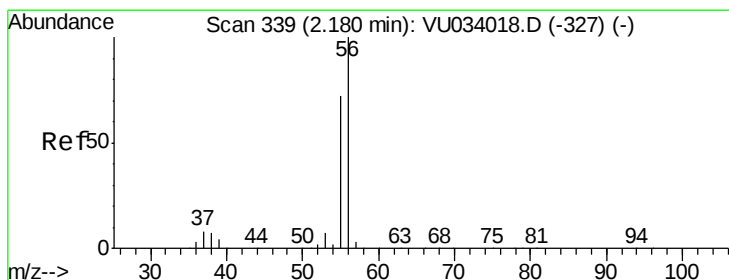
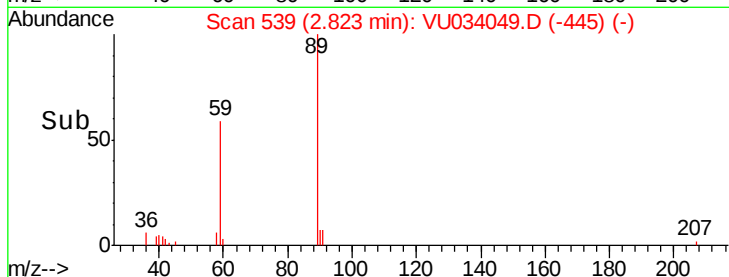
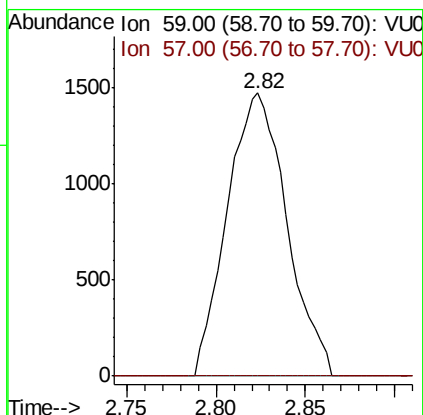
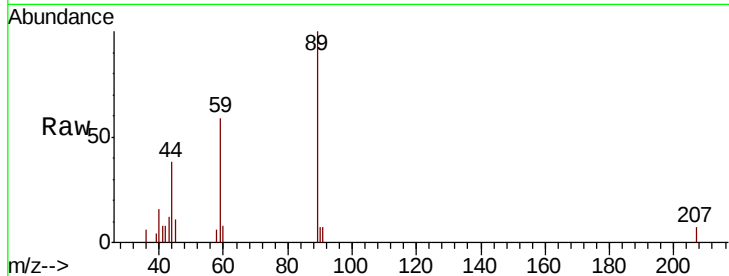




#11
Tert butyl alcohol
Concen: 2.436 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.00 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

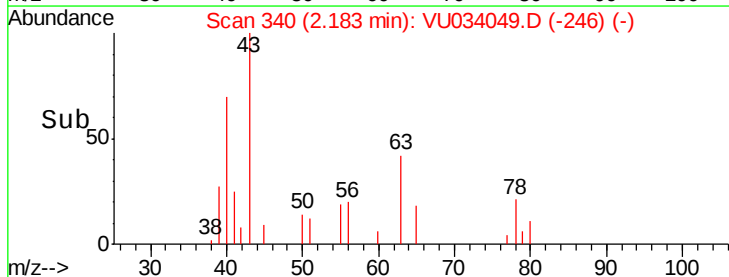
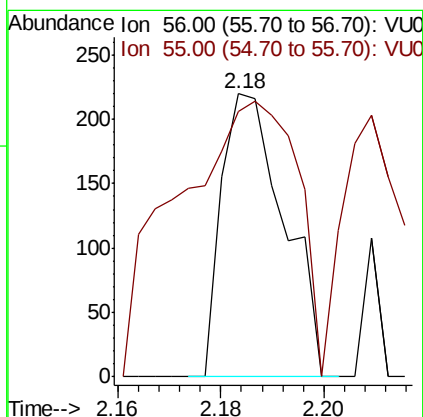
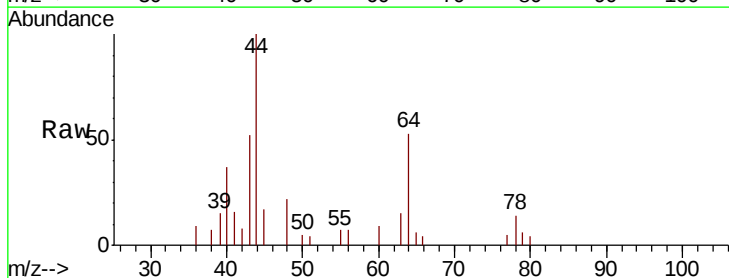
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(0)

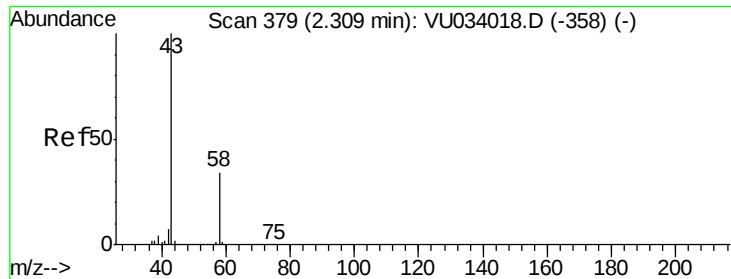
Tgt Ion: 59 Resp: 3416
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: 0.312 ug/l
RT: 2.18 min Scan# 340
Delta R.T. 0.00 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

Tgt Ion: 56 Resp: 184
Ion Ratio Lower Upper
56 100
55 189.1 57.1 85.7#





#16

Acetone

Concen: 14.630 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampleId :

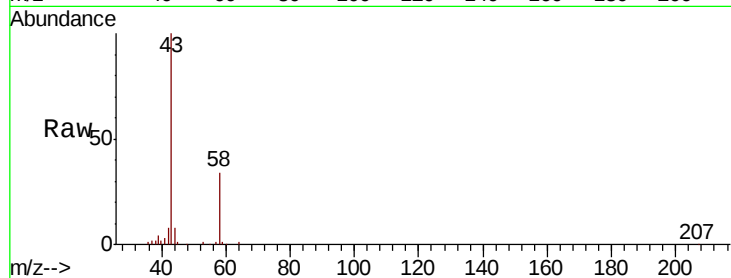
T9-12-13-C-(0)

Tgt Ion: 43 Resp: 45396

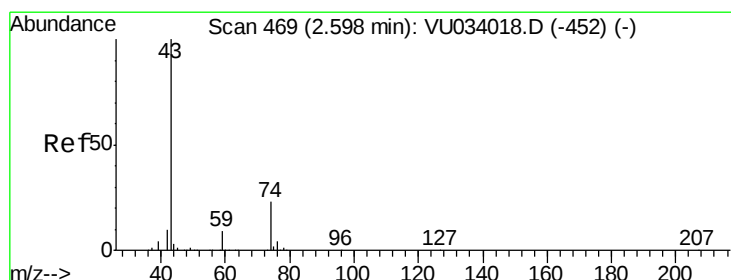
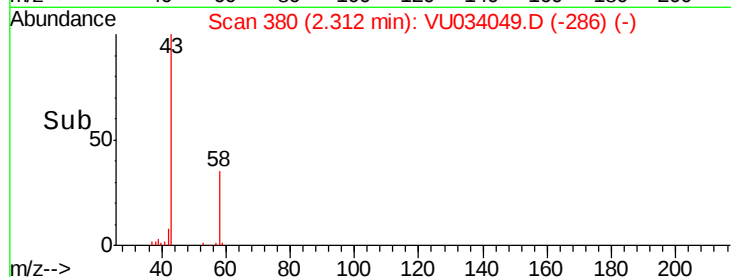
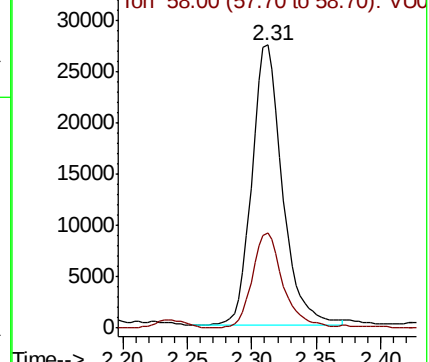
Ion Ratio Lower Upper

43 100

58 33.1 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034049.D (-380) (-)



#18

Methyl Acetate

Concen: 0.545 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034049.D

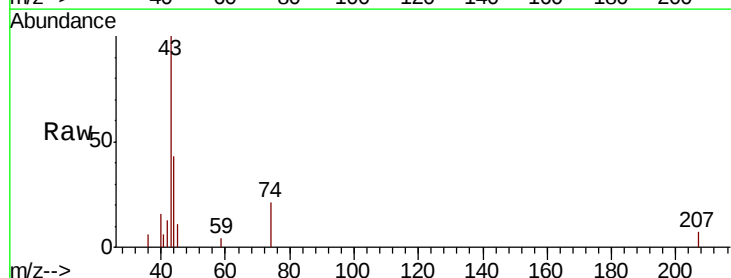
Acq: 29 Aug 2019 01:27

Tgt Ion: 43 Resp: 4370

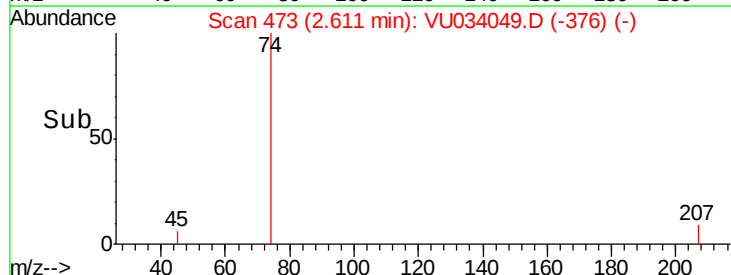
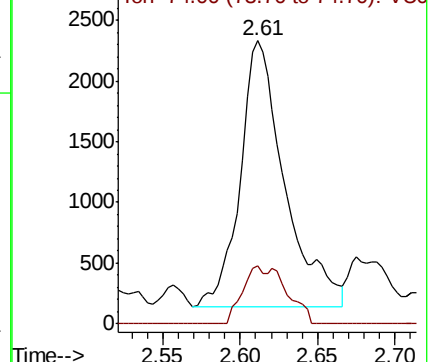
Ion Ratio Lower Upper

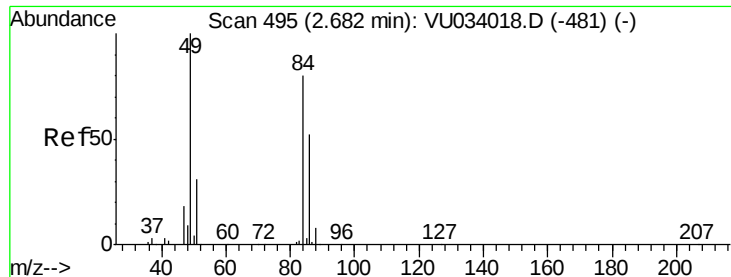
43 100

74 12.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034049.D (-473) (-)

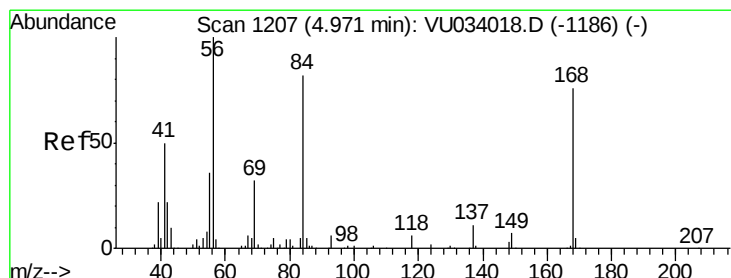
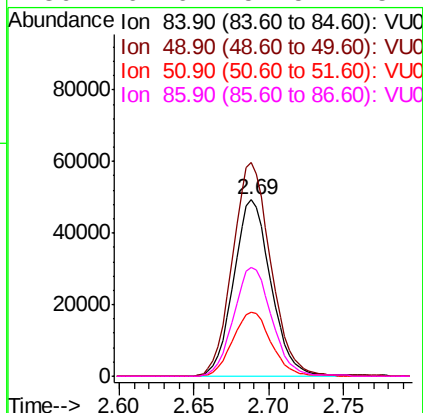
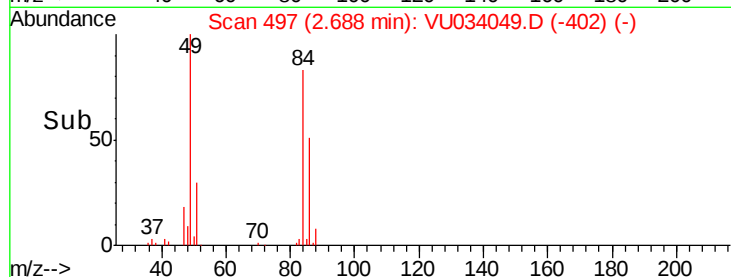
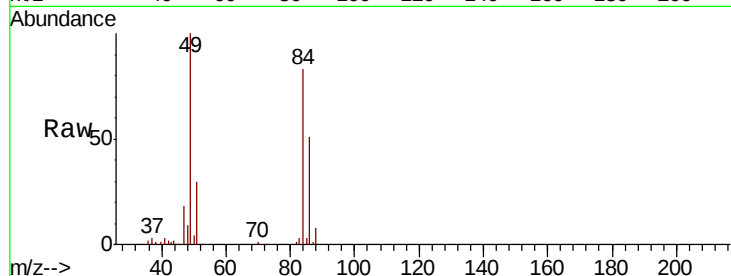




#20
Methylene Chloride
Concen: 14.565 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

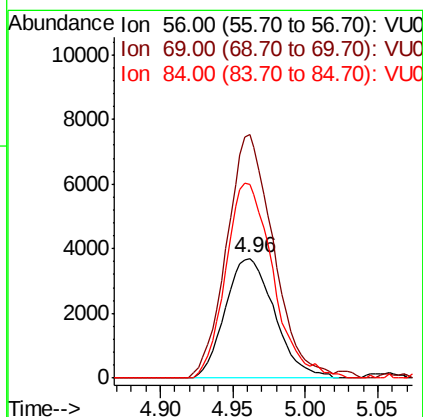
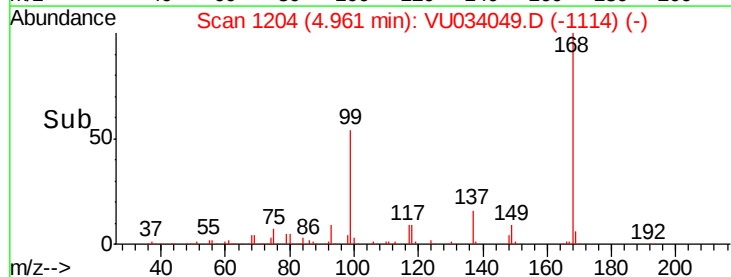
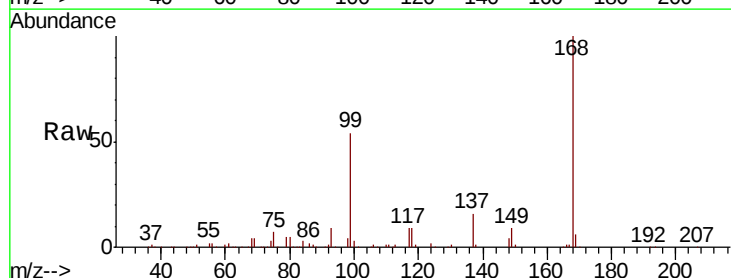
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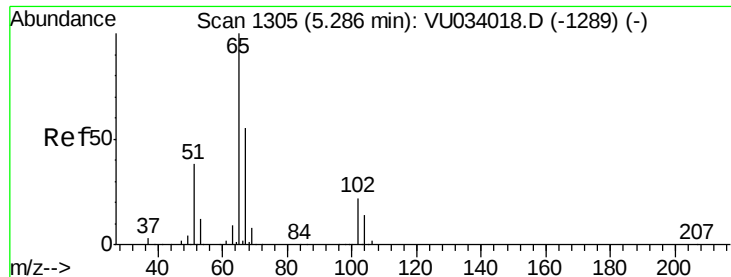
Tgt Ion: 84 Resp: 85558
Ion Ratio Lower Upper
84 100
49 121.1 100.2 150.4
51 36.5 30.8 46.2
86 61.6 52.5 78.7



#31
Cyclohexane
Concen: 0.964 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

Tgt Ion: 56 Resp: 8754
Ion Ratio Lower Upper
56 100
69 203.8 25.4 38.0#
84 162.5 65.8 98.8#

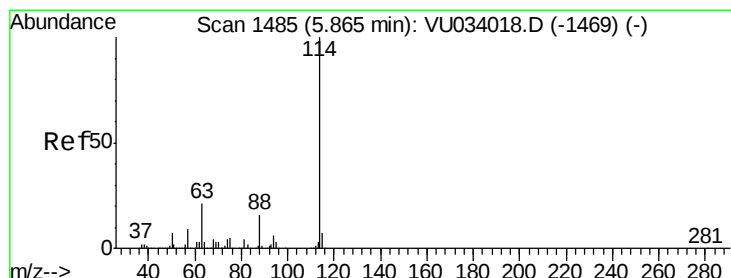
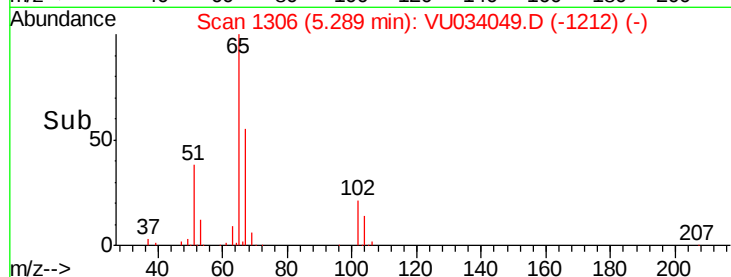
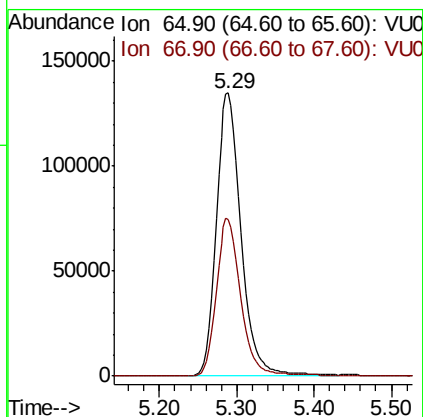
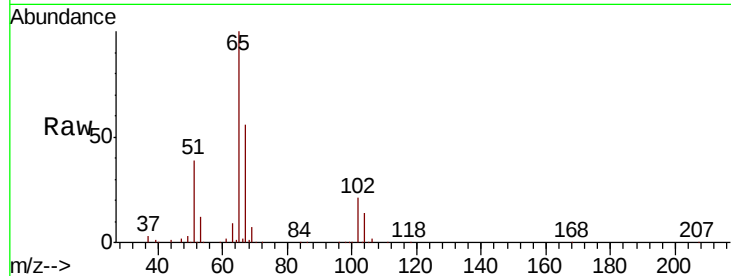




#33
 1,2-Dichloroethane-d4
 Concen: 49.699 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034049.D
 Acq: 29 Aug 2019 01:27

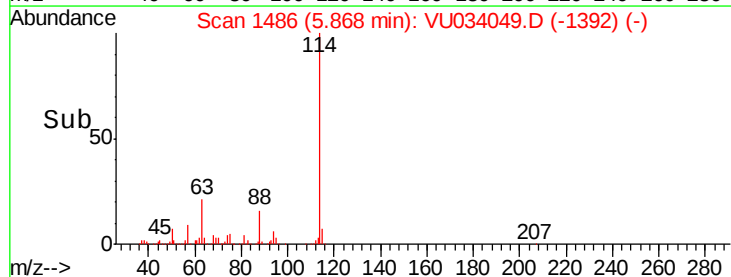
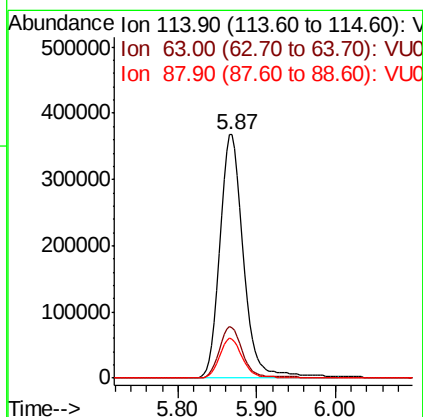
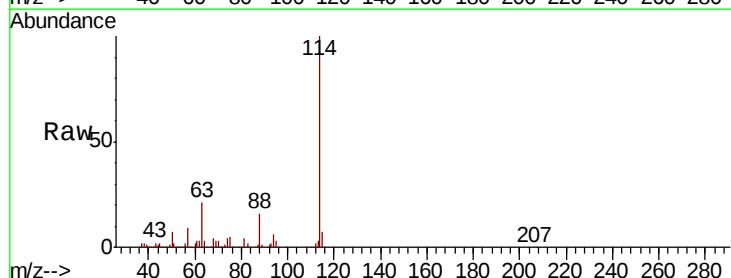
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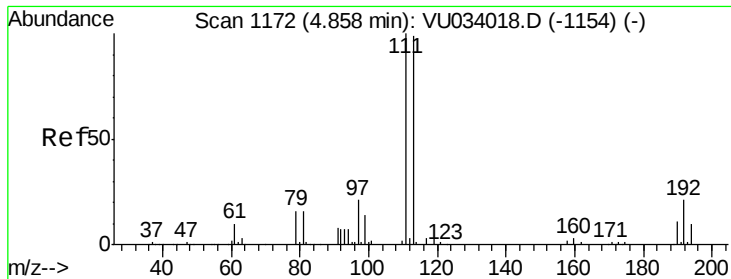
Tgt Ion: 65 Resp: 302230
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034049.D
 Acq: 29 Aug 2019 01:27

Tgt Ion: 114 Resp: 762934
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.0
 88 16.2 0.0 32.0

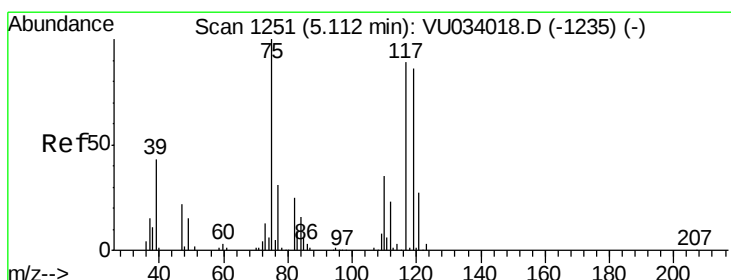
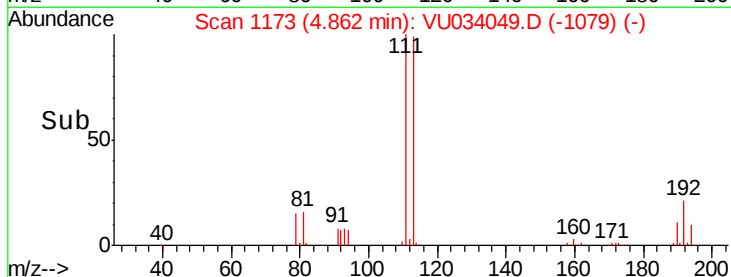
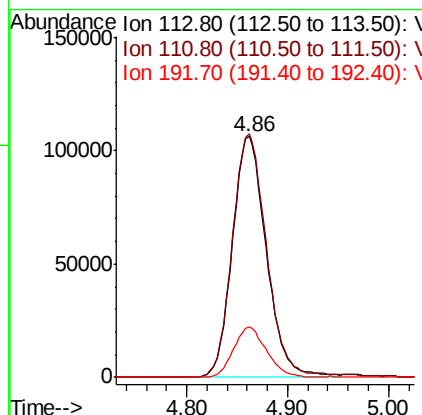
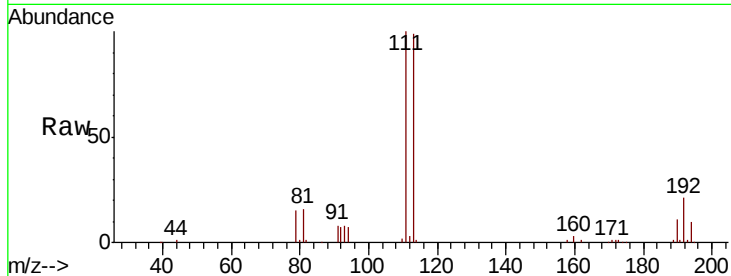




#35
 Dibromofluoromethane
 Concen: 47.088 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034049.D
 Acq: 29 Aug 2019 01:27

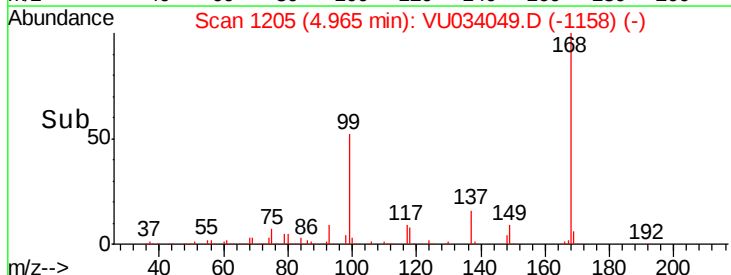
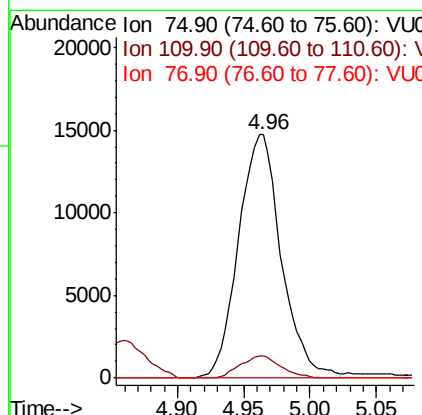
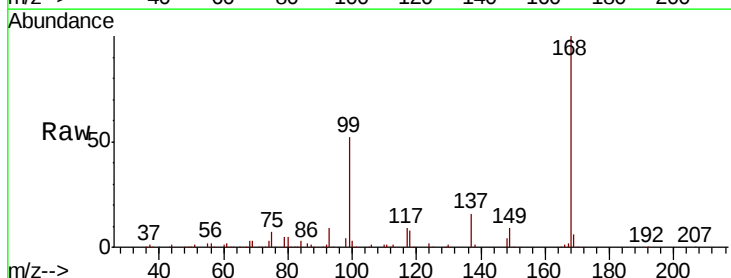
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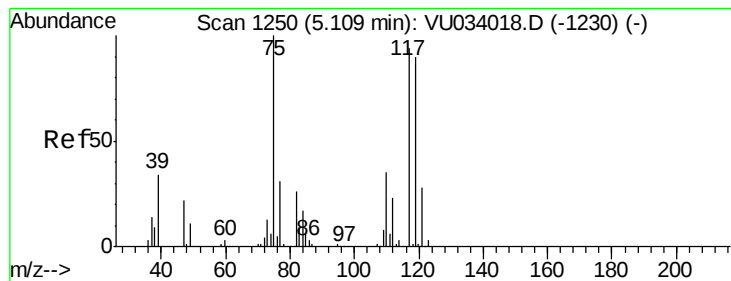
Tgt Ion:113 Resp: 249171
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.7 122.5
 192 20.5 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.592 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034049.D
 Acq: 29 Aug 2019 01:27

Tgt Ion: 75 Resp: 33138
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.8 53.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.157 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampled :

T9-12-13-C-(0)

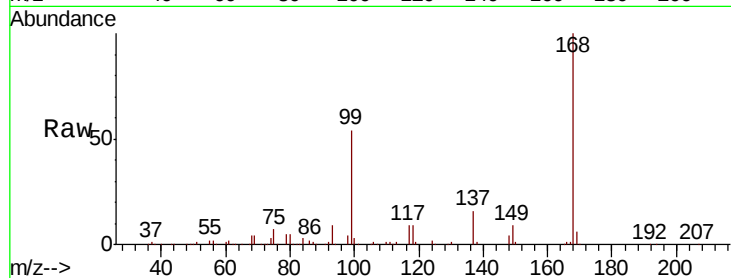
Tgt Ion:117 Resp: 42889

Ion Ratio Lower Upper

117 100

119 6.3 77.0 115.4#

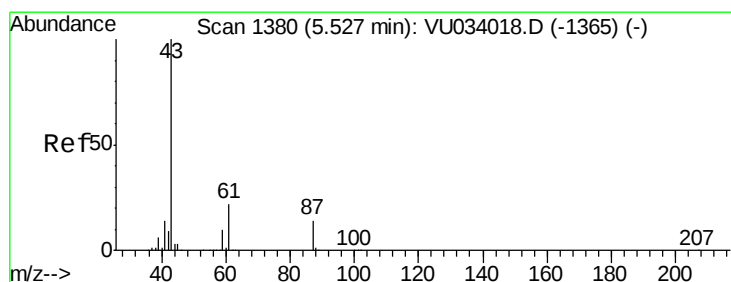
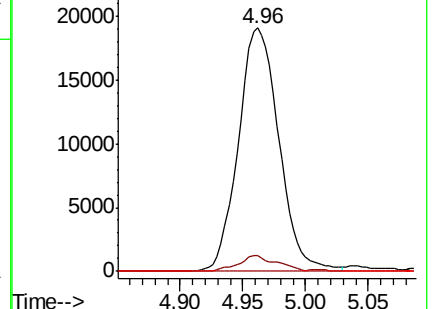
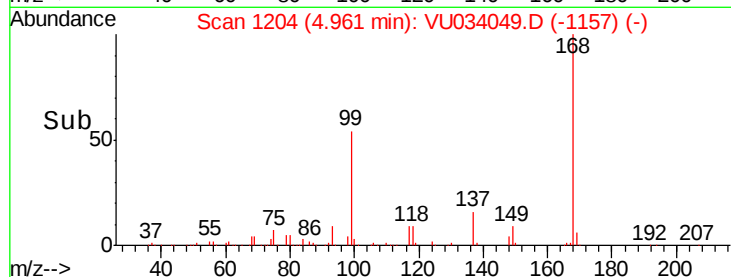
121 0.0 23.9 35.9#



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: 8.206 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

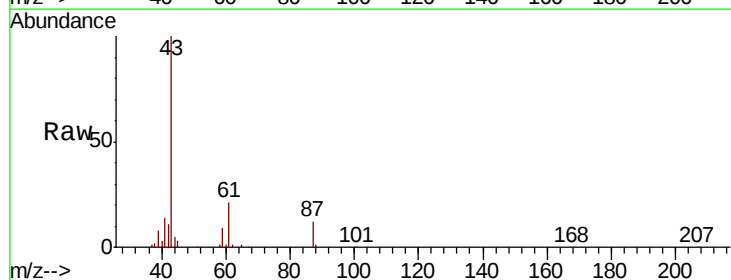
Tgt Ion: 43 Resp: 100883

Ion Ratio Lower Upper

43 100

61 20.9 17.2 25.8

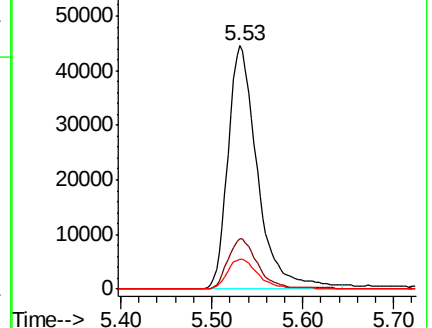
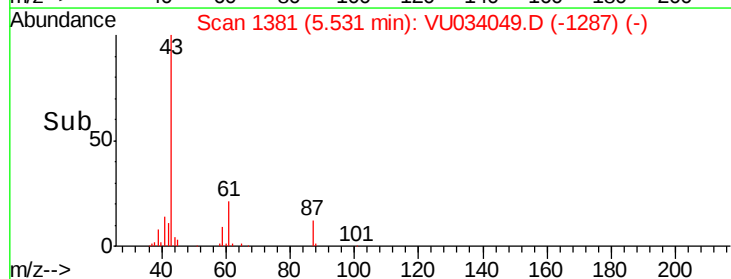
87 12.7 10.8 16.2

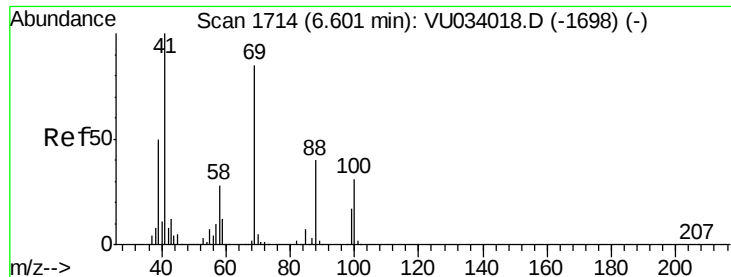


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

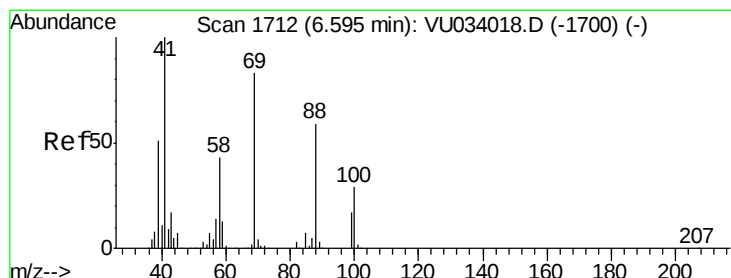
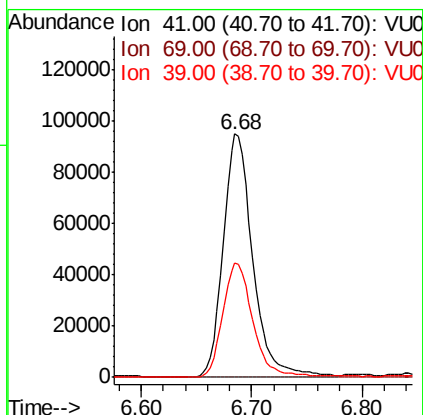
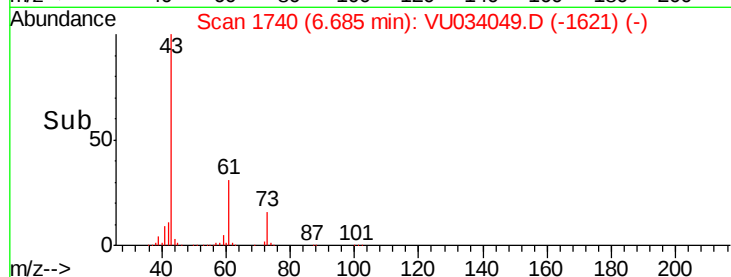
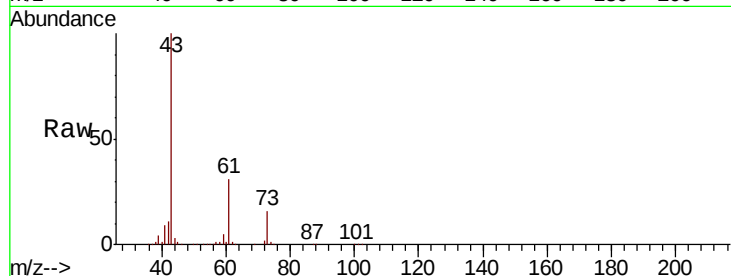




#48
Methyl methacrylate
Concen: 29.566 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

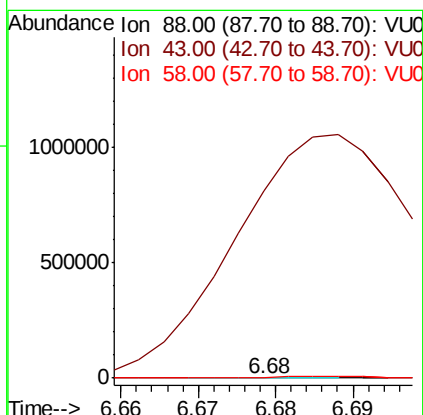
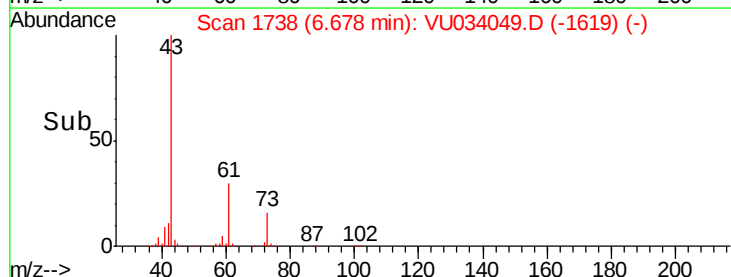
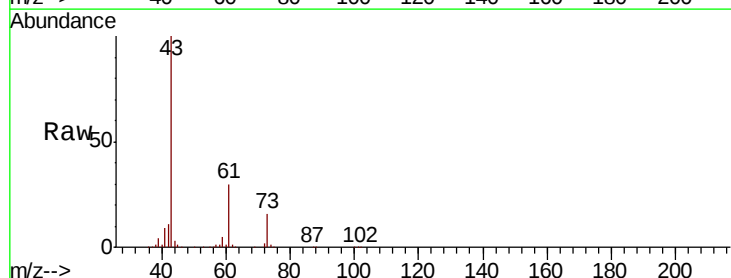
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(0)

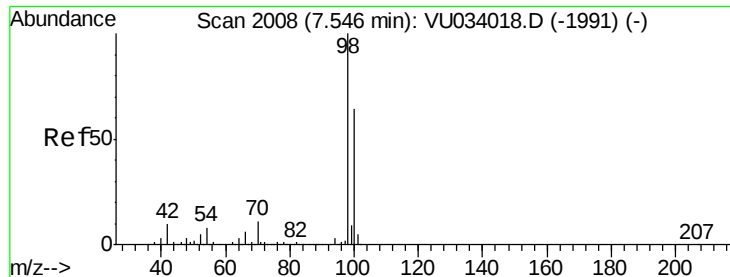
Tgt Ion: 41 Resp: 175400
Ion Ratio Lower Upper
41 100
69 0.2 69.5 104.3#
39 48.4 40.3 60.5



#49
1,4-Dioxane
Concen: 0.975 ug/l
RT: 6.68 min Scan# 1738
Delta R.T. 0.08 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

Tgt Ion: 88 Resp: 145
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 0.0 59.3 88.9#

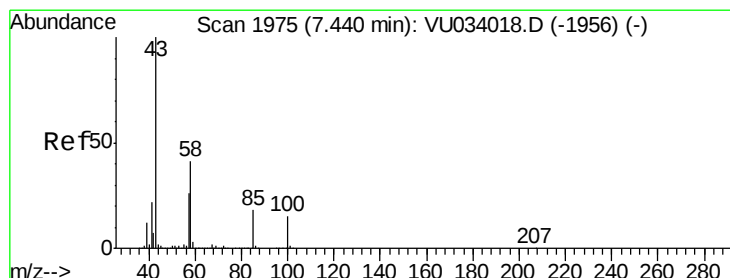
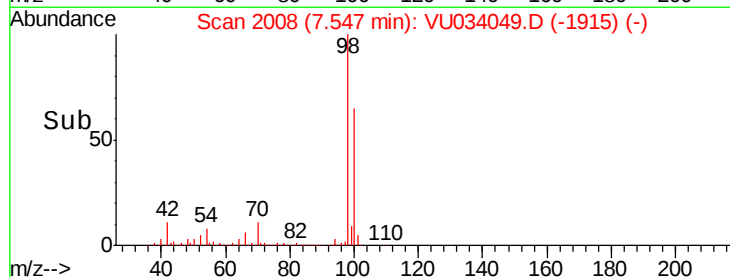
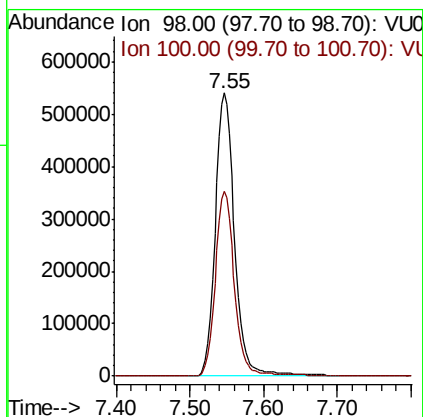
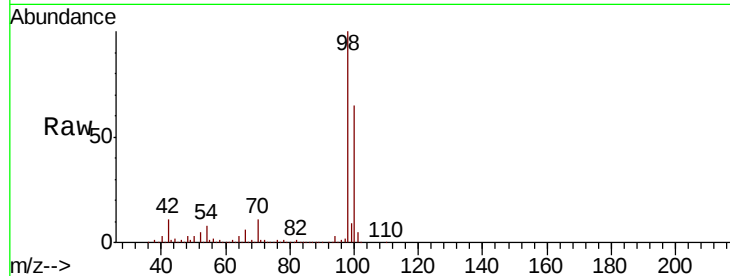




#50
Toluene-d8
Concen: 49.336 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

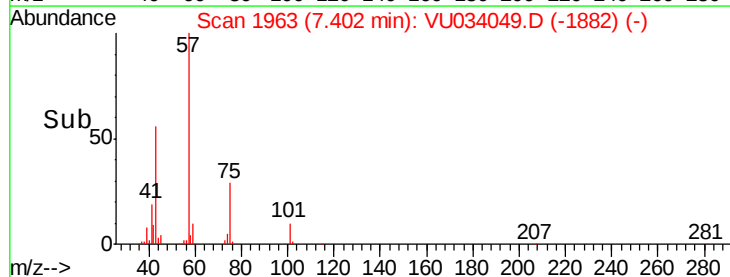
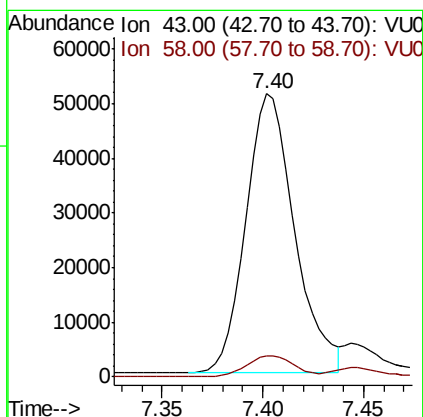
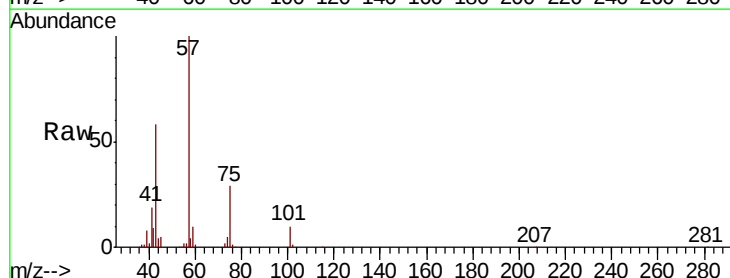
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(0)

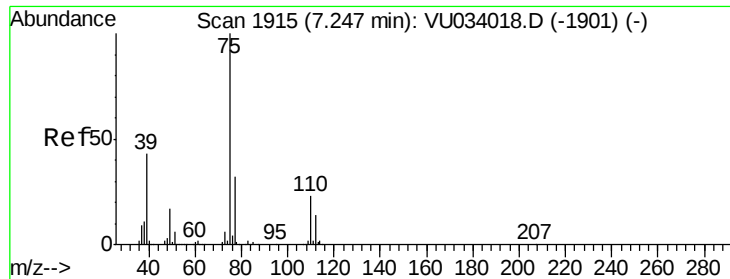
Tgt Ion: 98 Resp: 977540
Ion Ratio Lower Upper
98 100
100 64.8 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 10.214 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

Tgt Ion: 43 Resp: 86719
Ion Ratio Lower Upper
43 100
58 7.5 32.2 48.4#



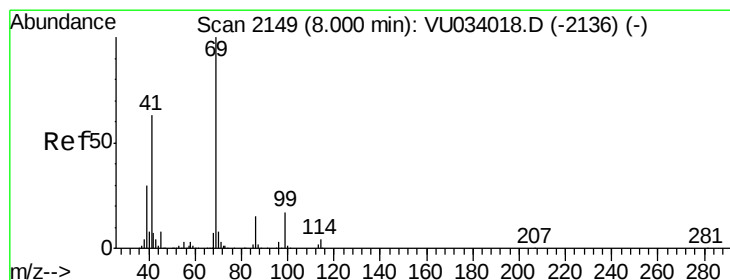
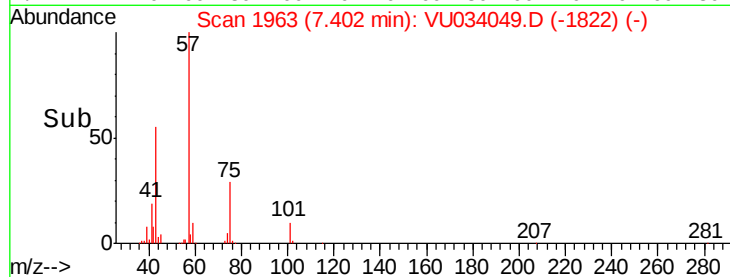
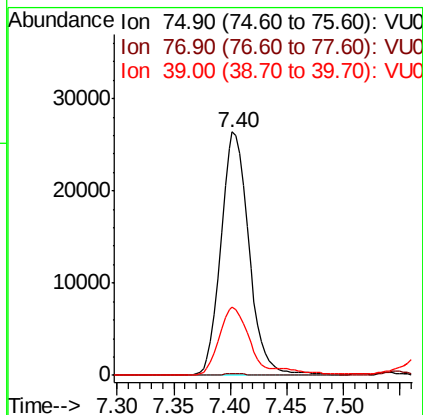
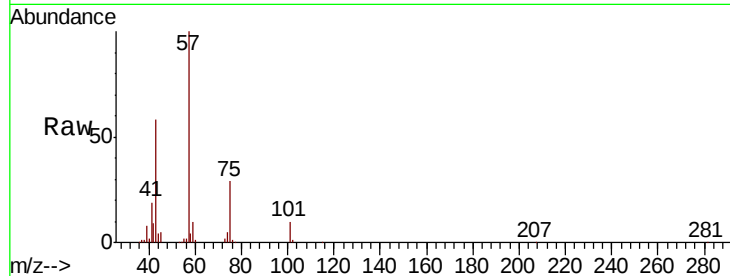


#54

cis-1,3-Dichloropropene
 Concen: 4.975 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034049.D
 Acq: 29 Aug 2019 01:27

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-C-(0)

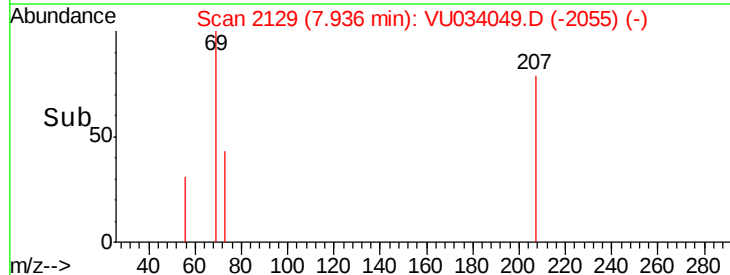
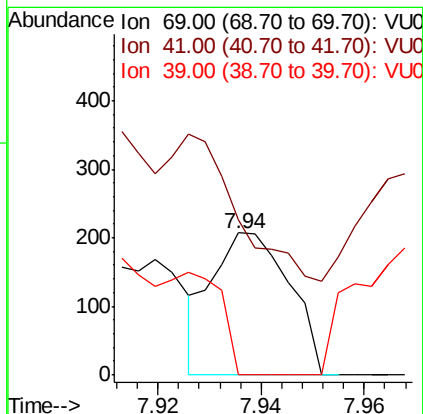
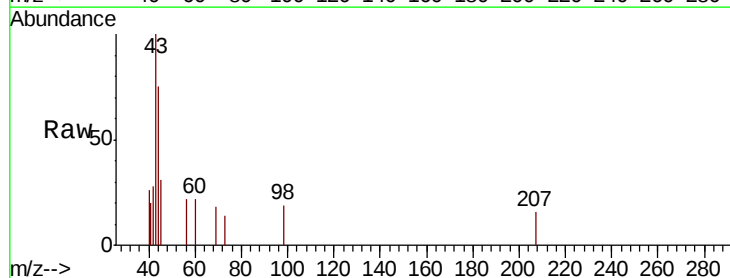
Tgt Ion: 75 Resp: 45685
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 28.1 34.6 51.8#

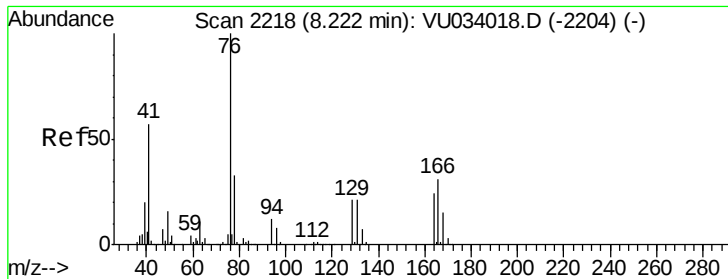


#56

Ethyl methacrylate
 Concen: 0.994 ug/l
 RT: 7.94 min Scan# 2129
 Delta R.T. -0.06 min
 Lab File: VU034049.D
 Acq: 29 Aug 2019 01:27

Tgt Ion: 69 Resp: 214
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#





#57

1,3-Dichloropropane

Concen: 0.857 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampleId :

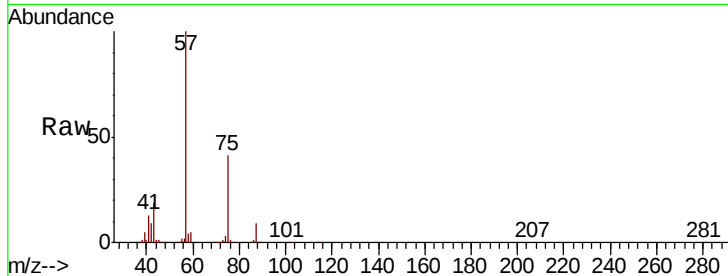
T9-12-13-C-(0)

Tgt Ion: 76 Resp: 8276

Ion Ratio Lower Upper

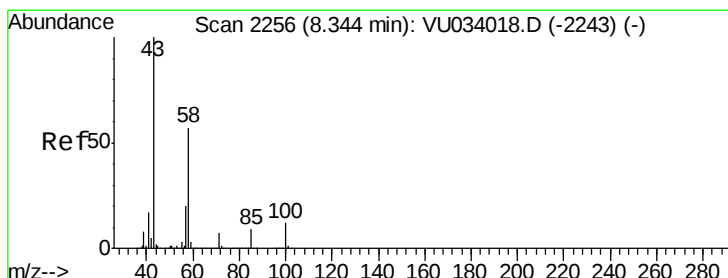
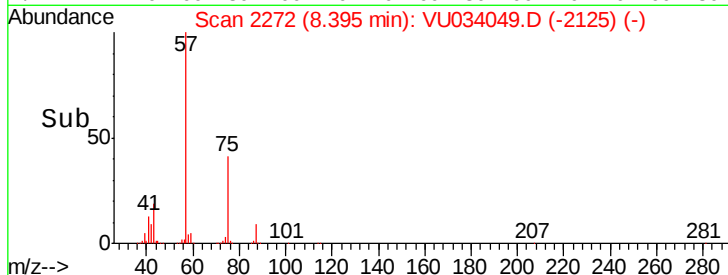
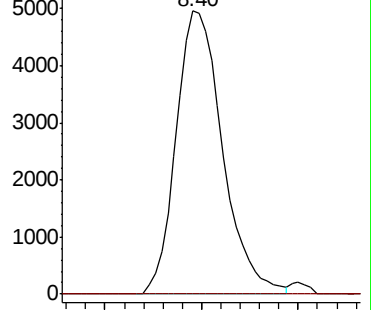
76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034049.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034049.D (-2125) (-)



#59

2-Hexanone

Concen: 17.718 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034049.D

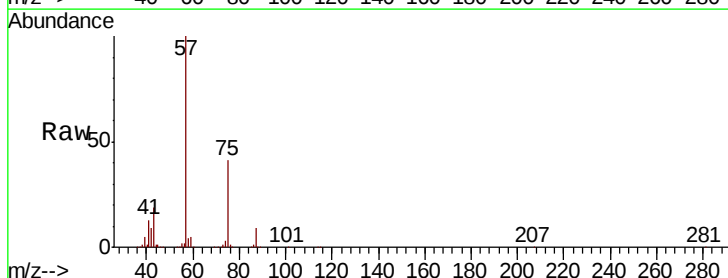
Acq: 29 Aug 2019 01:27

Tgt Ion: 43 Resp: 113564

Ion Ratio Lower Upper

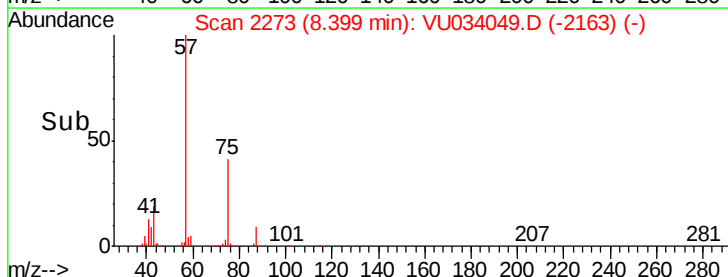
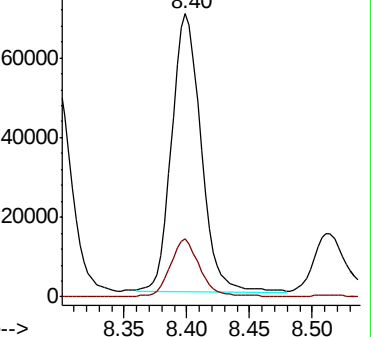
43 100

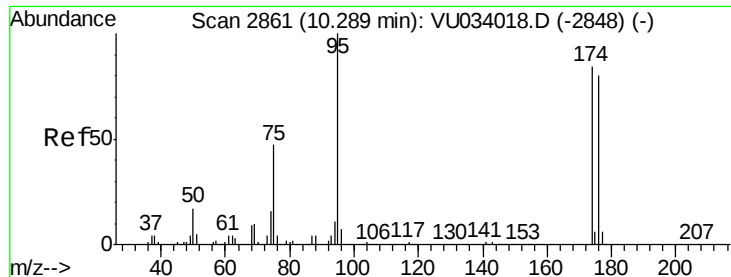
58 21.6 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034049.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034049.D (-2163) (-)

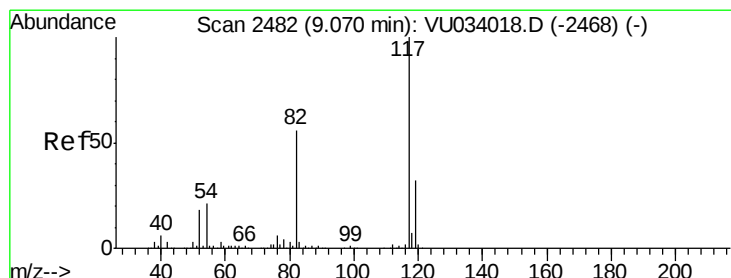
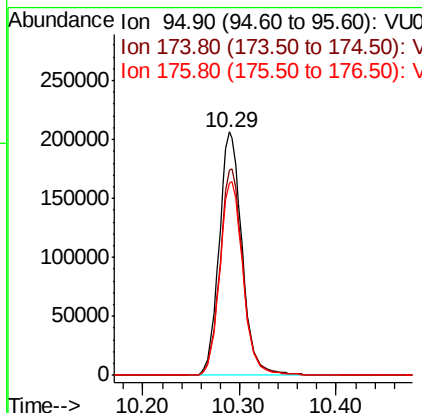
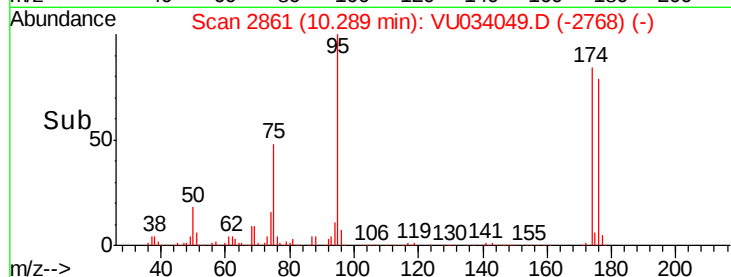
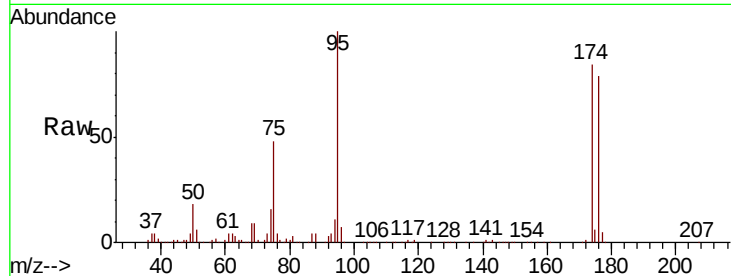




#62
4-Bromofluorobenzene
Concen: 43.962 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

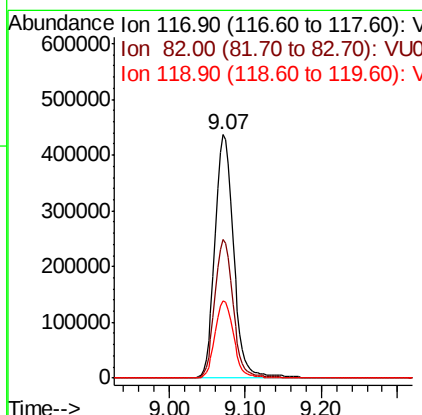
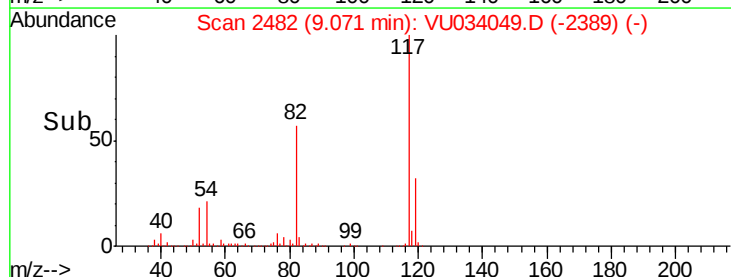
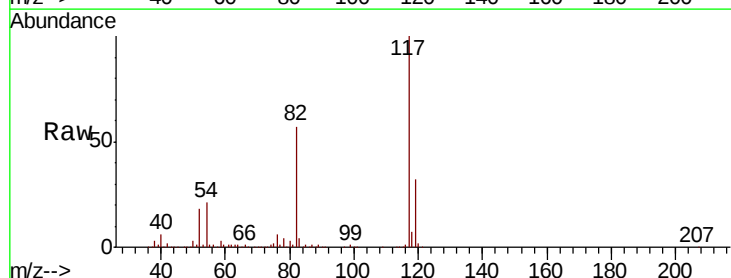
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(0)

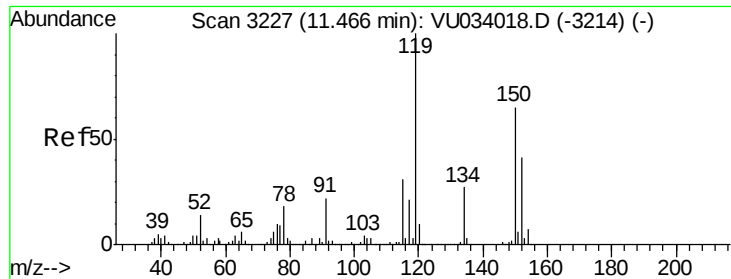
Tgt Ion: 95 Resp: 338831
Ion Ratio Lower Upper
95 100
174 85.2 0.0 168.8
176 80.7 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034049.D
Acq: 29 Aug 2019 01:27

Tgt Ion: 117 Resp: 746433
Ion Ratio Lower Upper
117 100
82 56.7 45.1 67.7
119 31.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-C-(0)

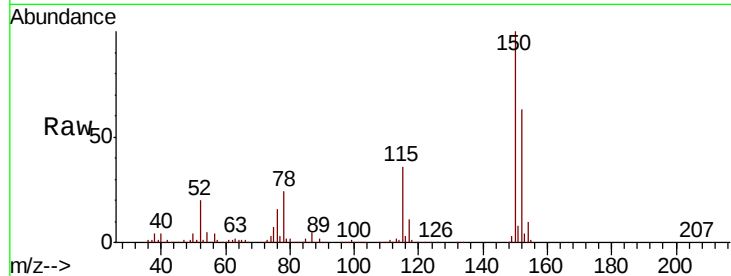
Tgt Ion:152 Resp: 361830

Ion Ratio Lower Upper

152 100

115 57.6 41.1 123.3

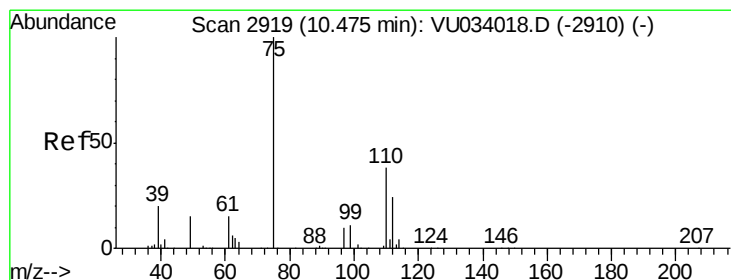
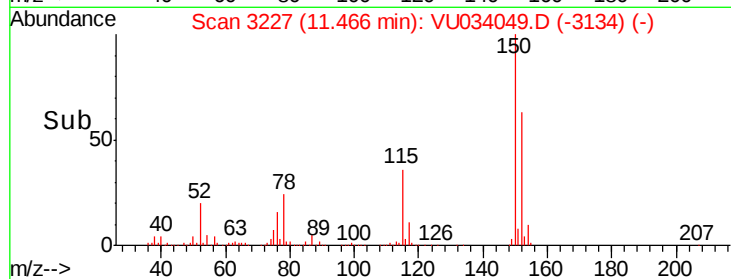
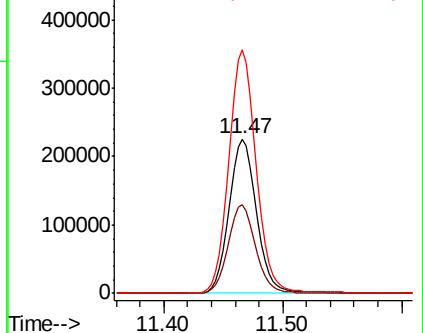
150 157.8 0.0 348.8



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



#76

1,2,3-Trichloropropane

Concen: 20.272 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034049.D

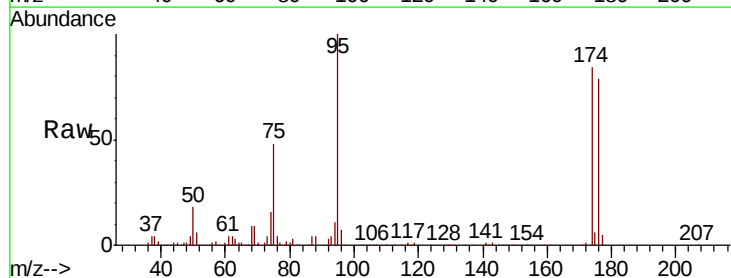
Acq: 29 Aug 2019 01:27

Tgt Ion: 75 Resp: 165316

Ion Ratio Lower Upper

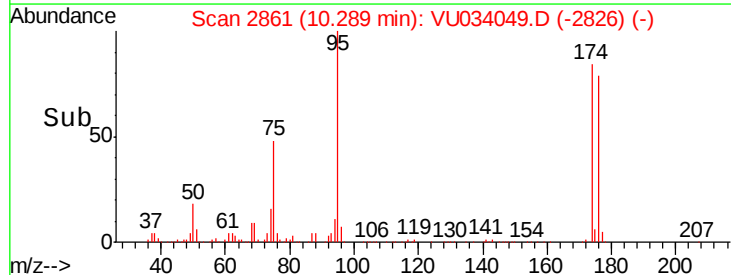
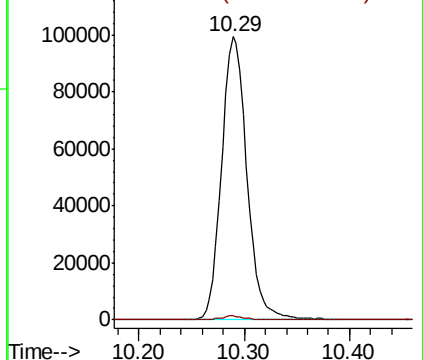
75 100

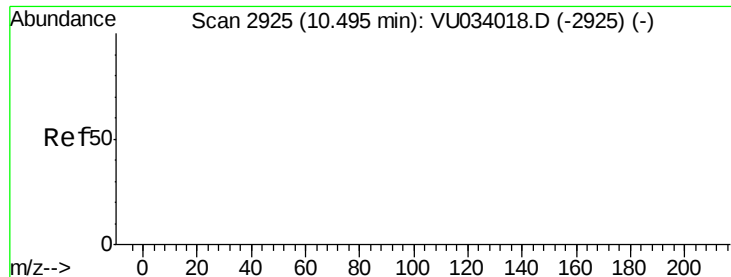
77 1.4 20.1 60.2#



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: 68.260 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-C-(0)

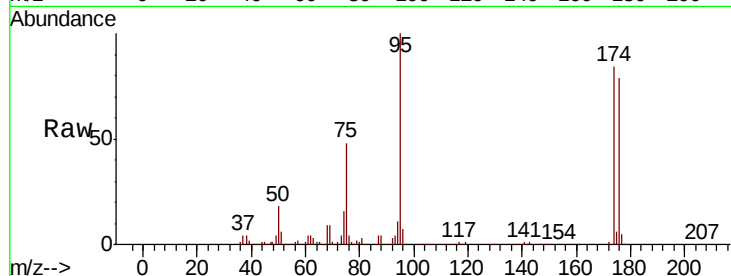
Tgt Ion: 75 Resp: 165316

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

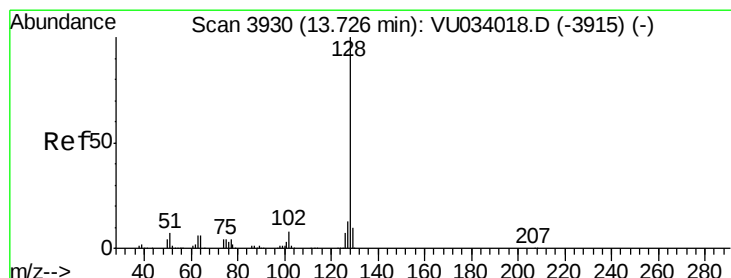
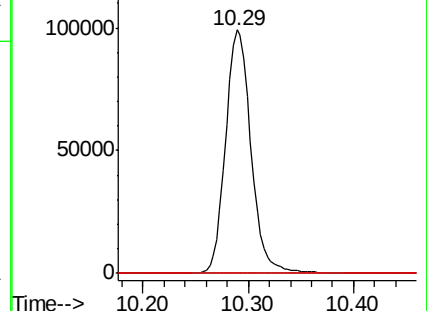
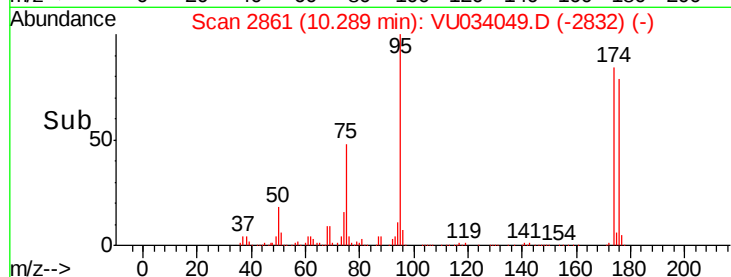
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034049.D (-2832) (-)

Ion 53.00 (52.70 to 53.70): VU034049.D (-2832) (-)

Ion 88.90 (88.60 to 89.60): VU034049.D (-2832) (-)



#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.80 min Scan# 3952

Delta R.T. 0.07 min

Lab File: VU034049.D

Acq: 29 Aug 2019 01:27

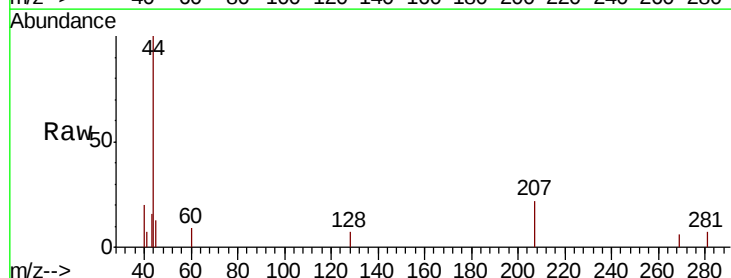
Tgt Ion: 128 Resp: 47

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VU034049.D (-3837) (-)

Ion 127.00 (126.70 to 127.70): VU034049.D (-3837) (-)

Ion 129.00 (128.70 to 129.70): VU034049.D (-3837) (-)

