

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034029.D
 Acq On : 28 Aug 2019 17:42
 Operator : JC/SP
 Sample : K4592-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-3

Quant Time: Aug 29 04:17:31 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	487088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	767079	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	723862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	360749	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	300665	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
35) Dibromofluoromethane	4.86	113	250519	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	7.55	98	961456	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	10.29	95	337518	43.55	ug/l	0.00
Spiked Amount			Recovery	=	87.10%	

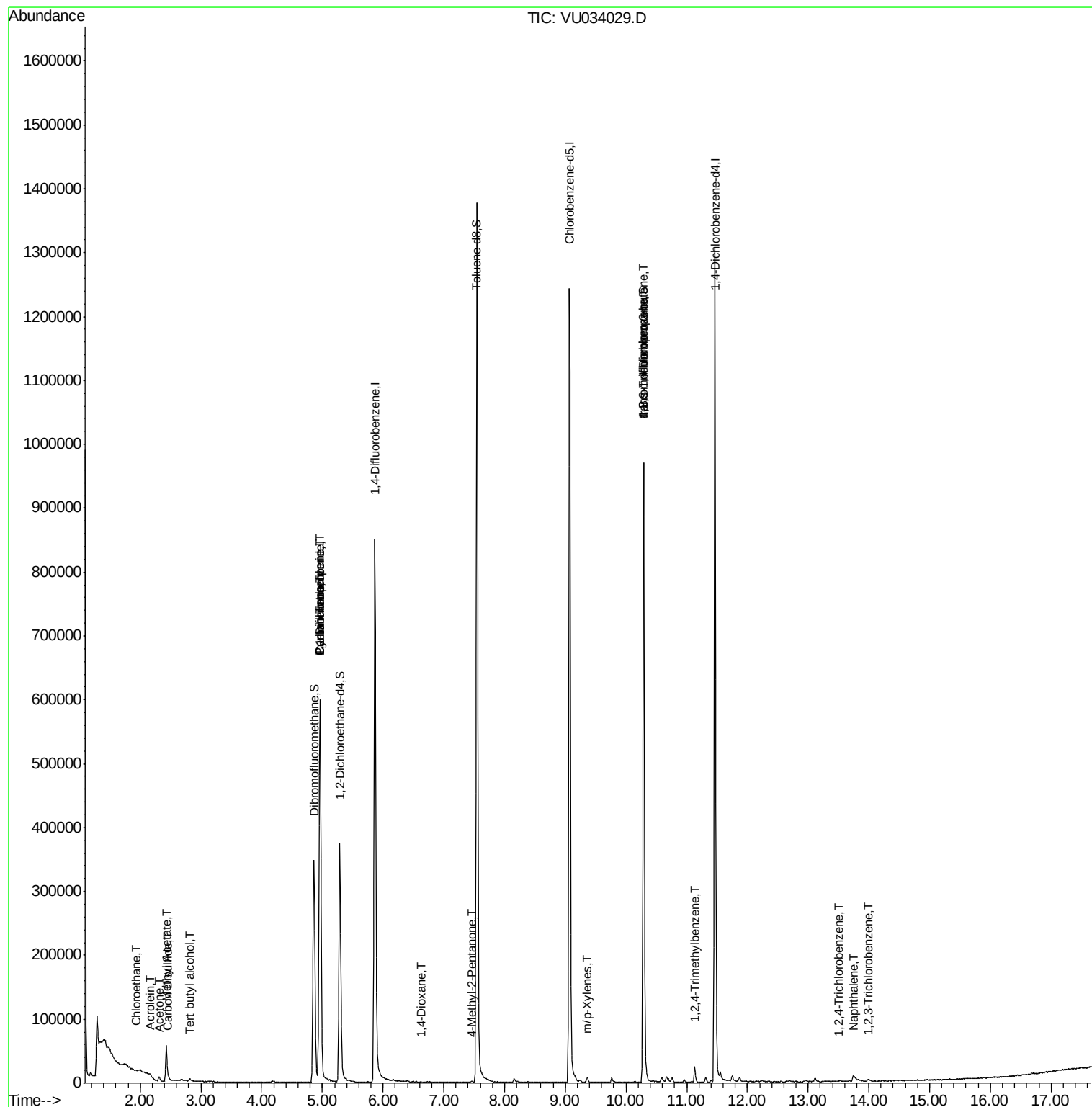
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1599	Below Cal		100
5) Bromomethane	1.63	94	422	Below Cal		92
6) Chloroethane	1.94	64	1363	0.342	ug/l #	43
11) Tert butyl alcohol	2.81	59	3901	2.710	ug/l #	73
13) Acrolein	2.18	56	387	0.639	ug/l #	71
16) Acetone	2.31	43	8361	2.625	ug/l	97
17) Carbon Disulfide	2.47	76	5506	0.357	ug/l	96
18) Methyl Acetate	2.43	43	13732	1.669	ug/l #	51
31) Cyclohexane	4.96	56	8811	0.945	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	35041	4.830	ug/l #	48
38) Carbon Tetrachloride	4.96	117	45696	6.525	ug/l #	16
49) 1,4-Dioxane	6.61	88	39	0.261	ug/l #	1
51) 4-Methyl-2-Pentanone	7.45	43	1866	0.219	ug/l #	68
68) m/p-Xylenes	9.36	106	2478	0.258	ug/l	91
76) 1,2,3-Trichloropropane	10.29	75	162958	20.042	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	162958	67.488	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.13	105	13858	0.680	ug/l	100
93) 1,2,4-Trichlorobenzene	13.51	180	865	1.221	ug/l #	51
95) Naphthalene	13.75	128	18600	2.586	ug/l #	84
96) 1,2,3-Trichlorobenzene	13.99	180	1442	0.204	ug/l	95

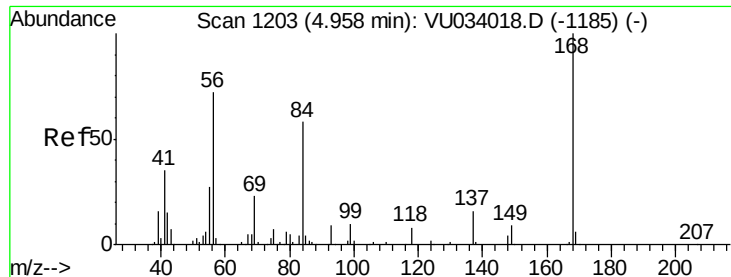
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034029.D

Acq: 28 Aug 2019 17:42

Instrument :

MSVOA_U

ClientSampled :

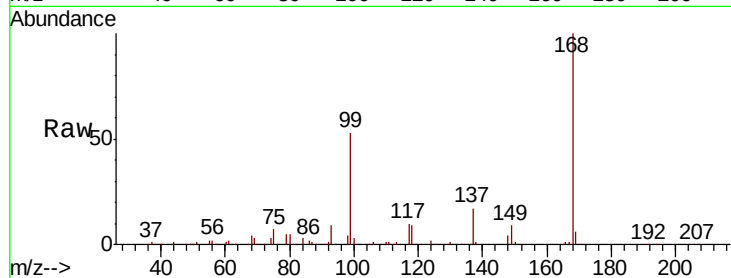
GW-3

Tgt Ion: 168 Resp: 487088

Ion Ratio Lower Upper

168 100

99 53.2 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

250000

200000

150000

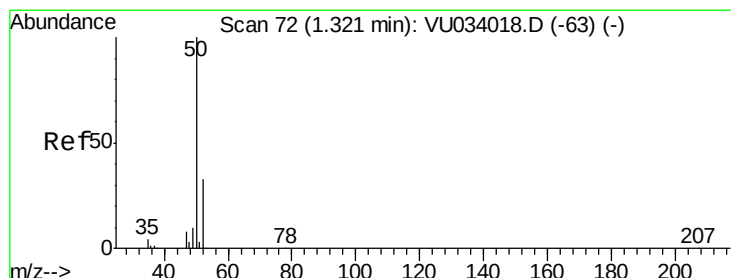
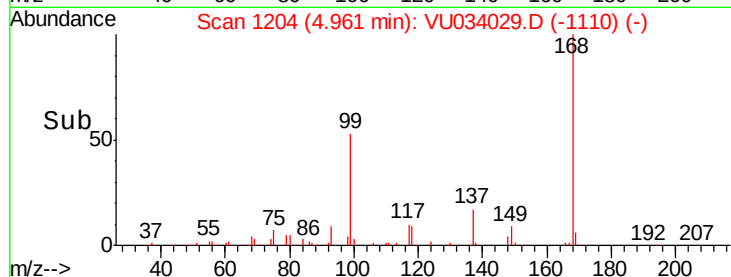
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034029.D

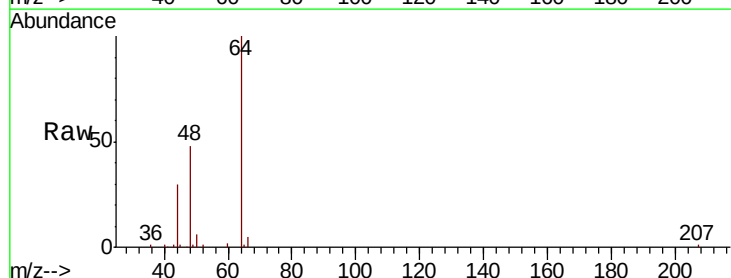
Acq: 28 Aug 2019 17:42

Tgt Ion: 50 Resp: 1599

Ion Ratio Lower Upper

50 100

52 32.9 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

2000

1500

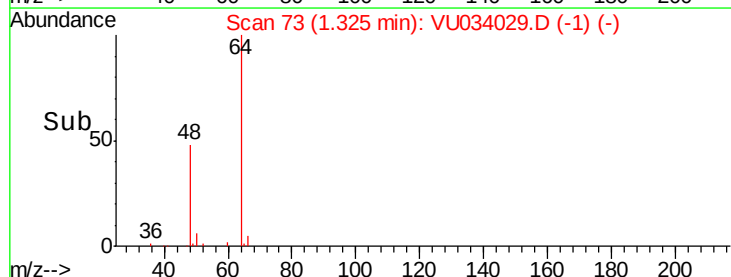
1000

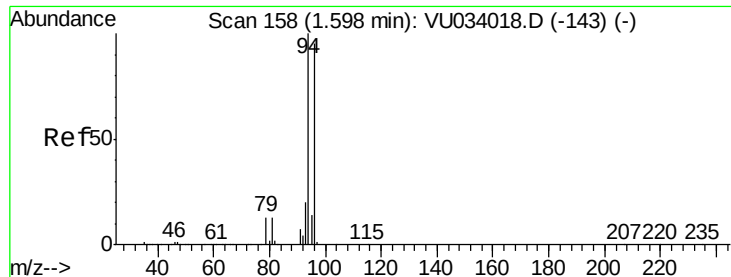
500

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034029.D

Acq: 28 Aug 2019 17:42

Instrument :

MSVOA_U

ClientSampled :

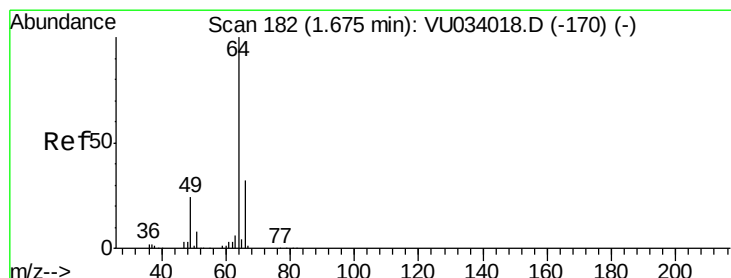
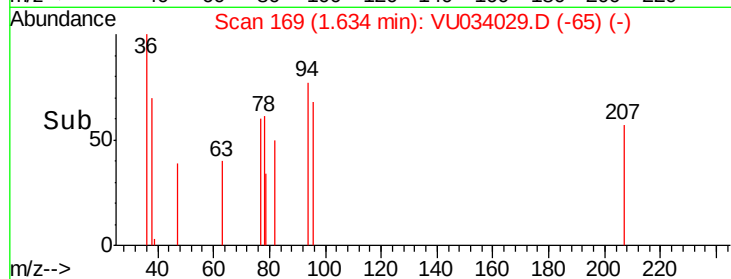
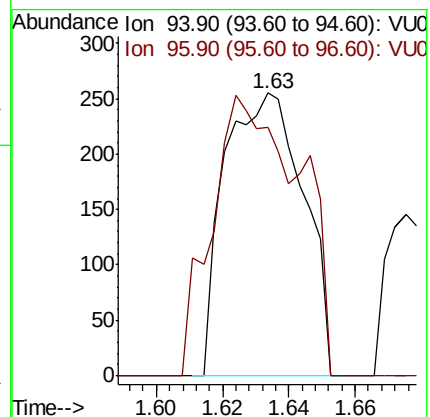
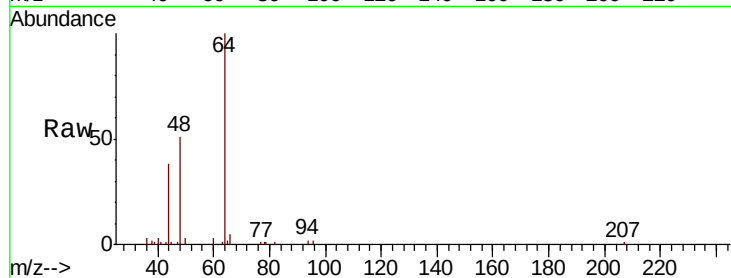
GW-3

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

94 100

96 87.8 76.3 114.5



#6

Chloroethane

Concen: 0.342 ug/l

RT: 1.94 min Scan# 263

Delta R.T. 0.26 min

Lab File: VU034029.D

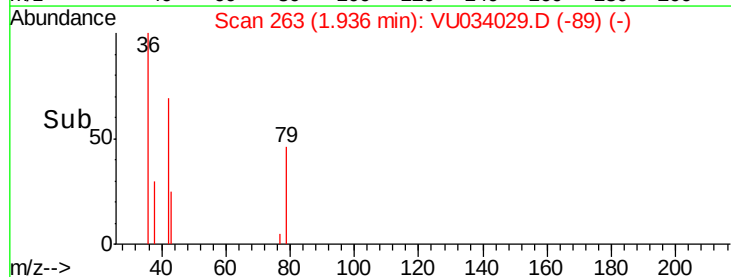
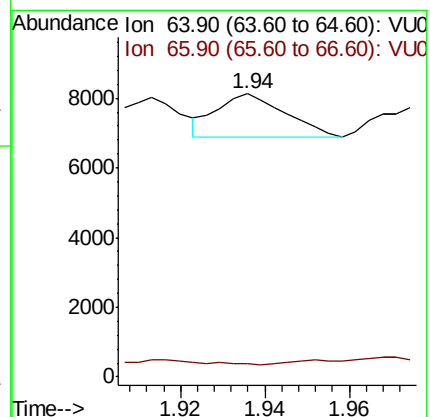
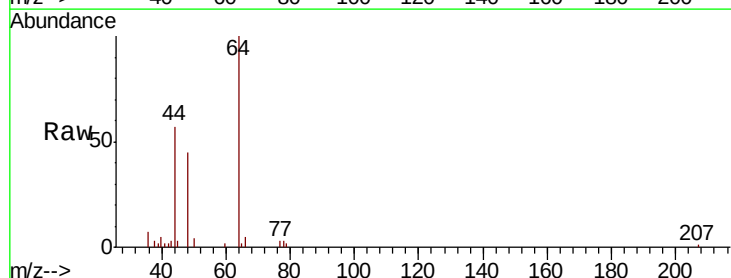
Acq: 28 Aug 2019 17:42

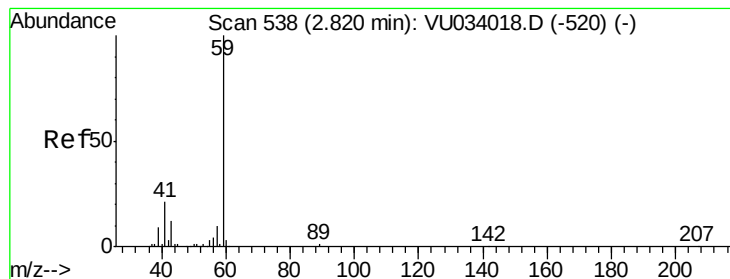
Tgt Ion: 64 Resp: 1363

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



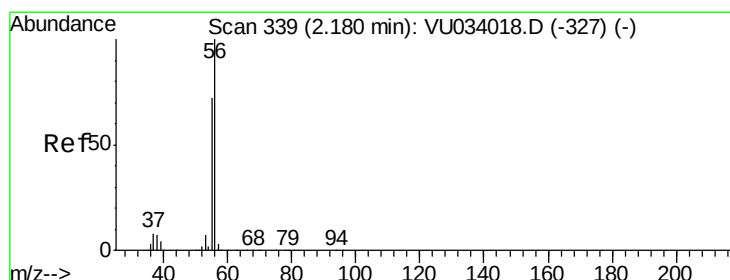
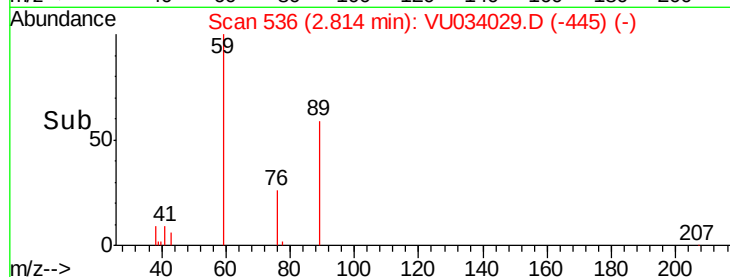
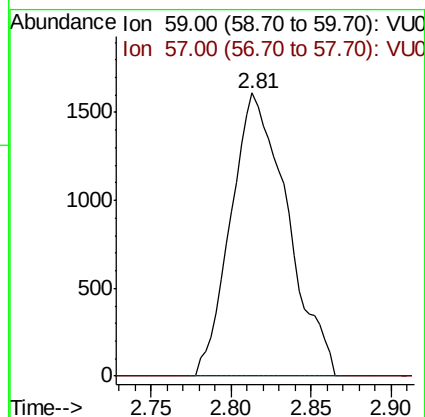
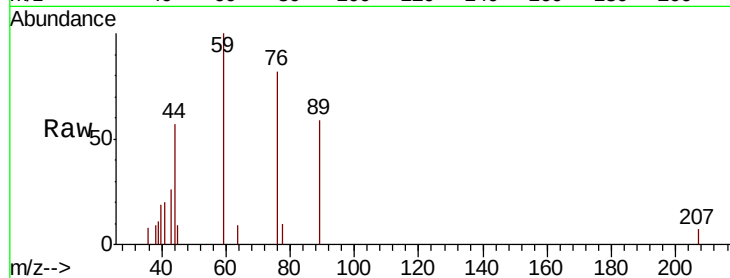


#11

Tert butyl alcohol
 Concen: 2.710 ug/l
 RT: 2.81 min Scan# 536
 Delta R.T. -0.01 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-3

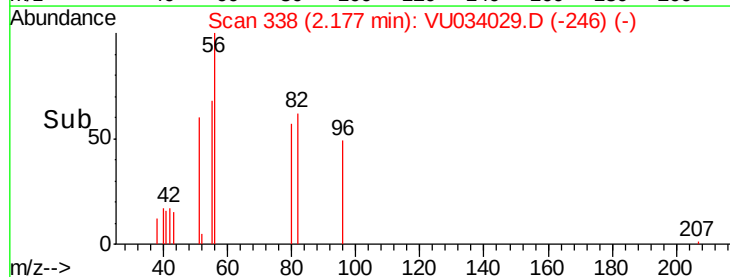
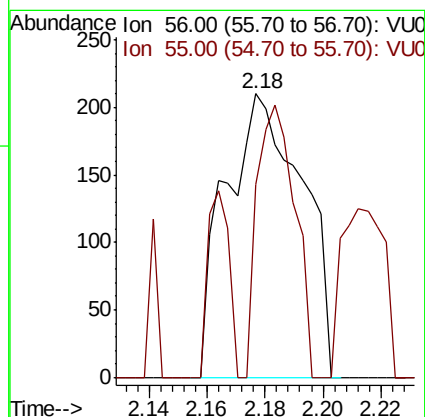
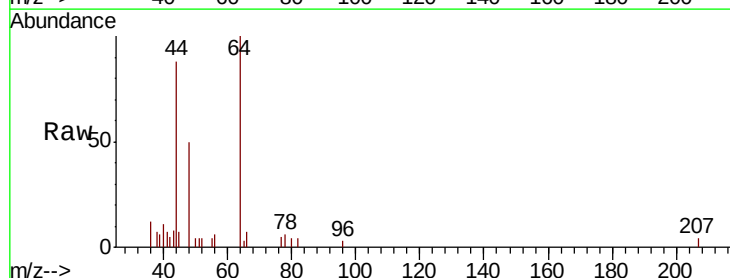
Tgt Ion: 59 Resp: 3901
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

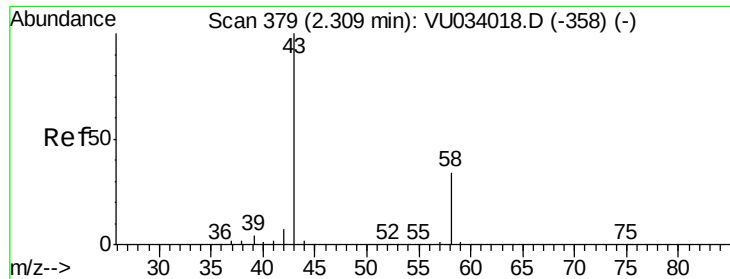


#13

Acrolein
 Concen: 0.639 ug/l
 RT: 2.18 min Scan# 338
 Delta R.T. -0.00 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

Tgt Ion: 56 Resp: 387
 Ion Ratio Lower Upper
 56 100
 55 47.0 57.1 85.7#





#16

Acetone

Concen: 2.625 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034029.D

Acq: 28 Aug 2019 17:42

Instrument :

MSVOA_U

ClientSampleId :

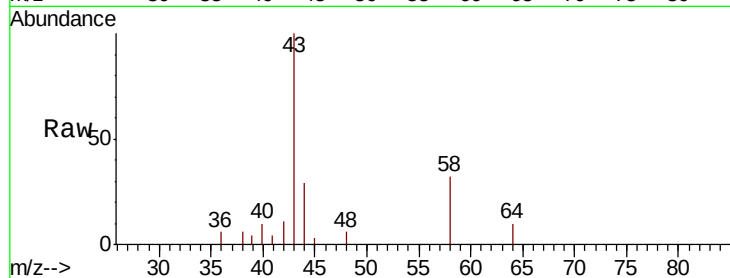
GW-3

Tgt Ion: 43 Resp: 8361

Ion Ratio Lower Upper

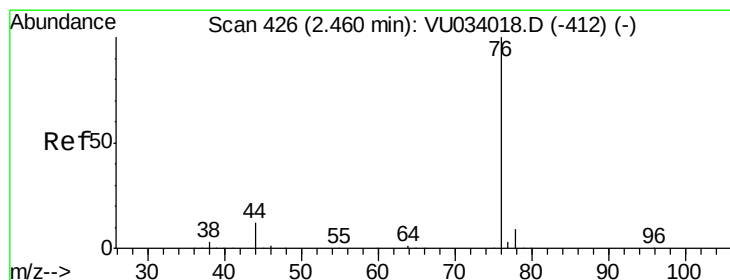
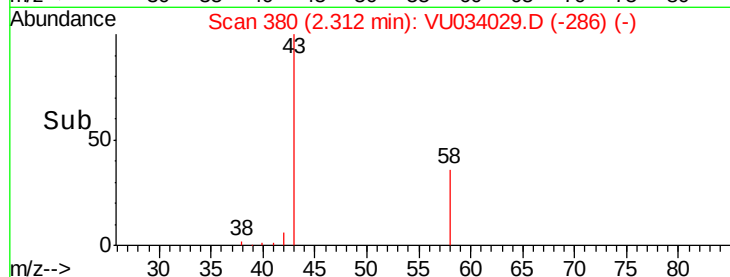
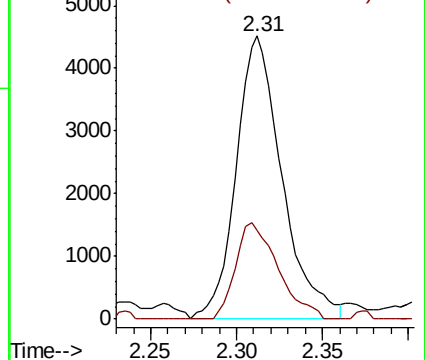
43 100

58 31.5 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)



#17

Carbon Disulfide

Concen: 0.357 ug/l

RT: 2.47 min Scan# 429

Delta R.T. 0.01 min

Lab File: VU034029.D

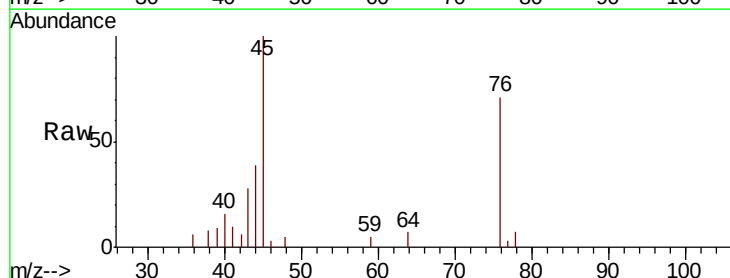
Acq: 28 Aug 2019 17:42

Tgt Ion: 76 Resp: 5506

Ion Ratio Lower Upper

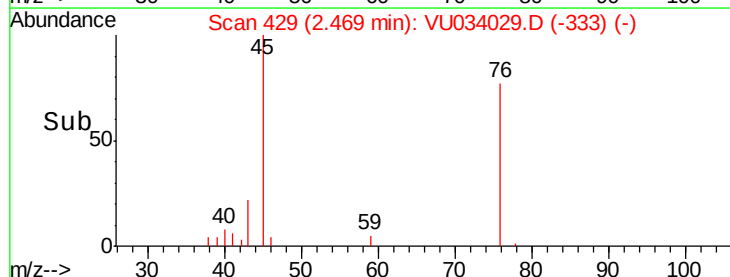
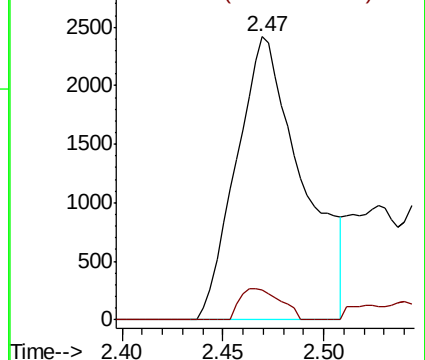
76 100

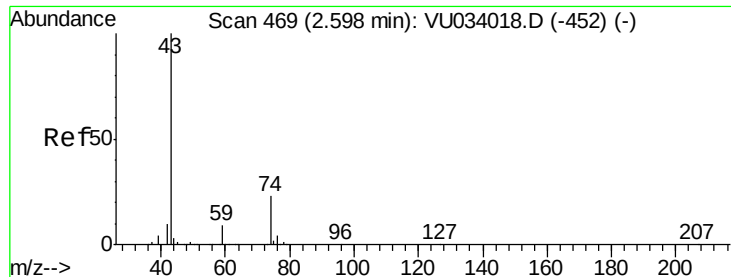
78 10.3 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-412) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-412) (-)

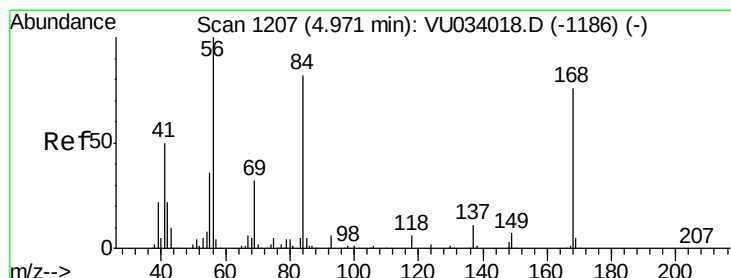
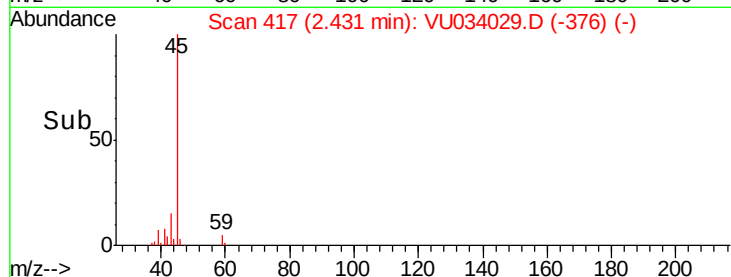
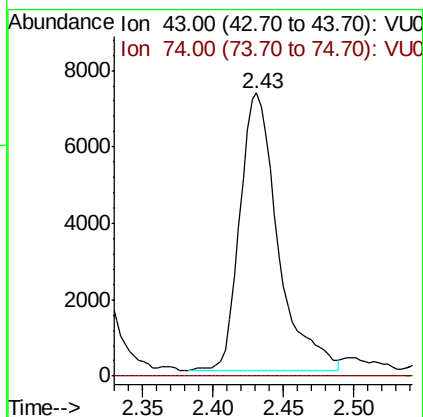
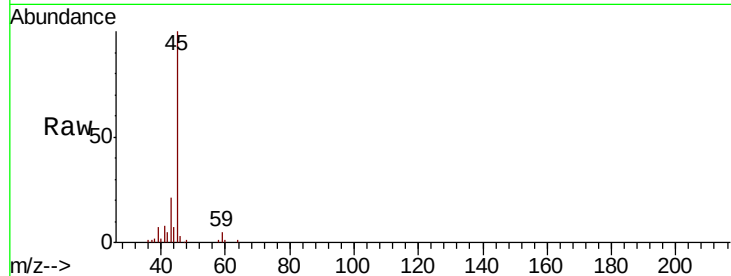




#18
Methyl Acetate
Concen: 1.669 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

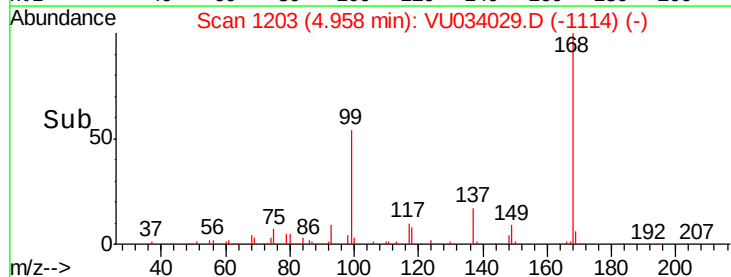
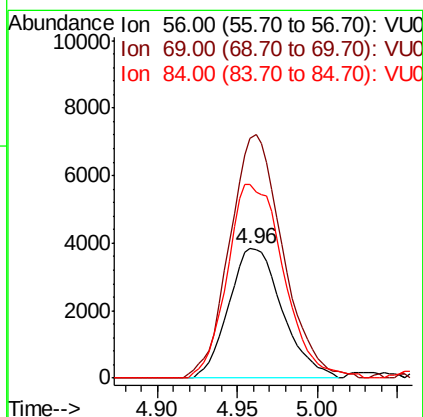
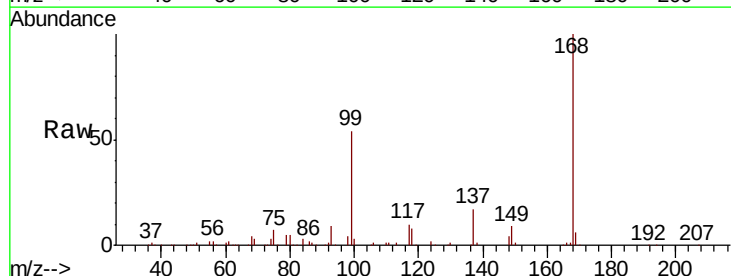
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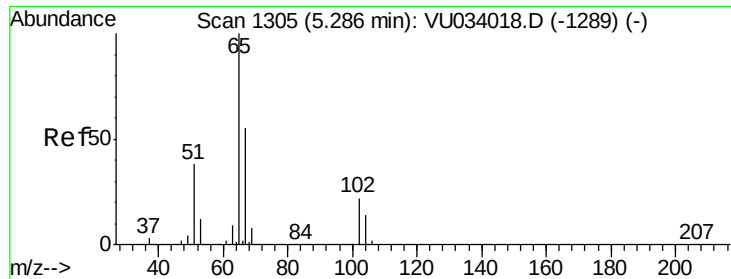
Tgt Ion: 43 Resp: 13732
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#31
Cyclohexane
Concen: 0.945 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

Tgt Ion: 56 Resp: 8811
Ion Ratio Lower Upper
56 100
69 182.4 25.4 38.0#
84 150.1 65.8 98.8#

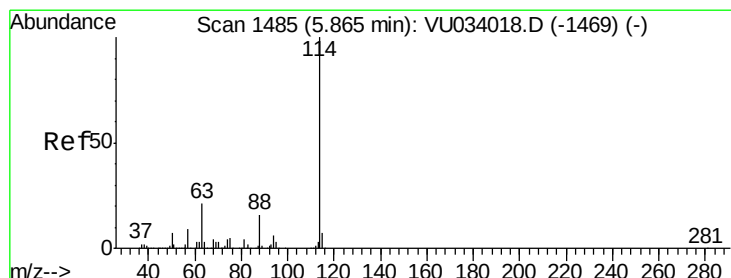
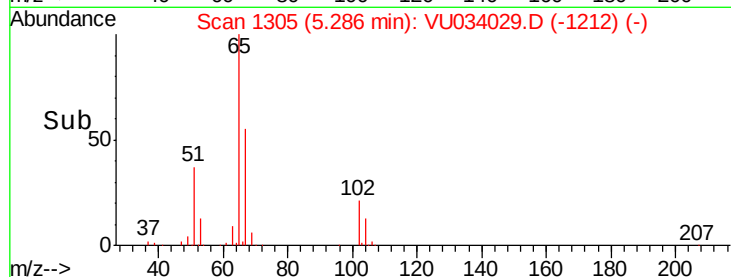
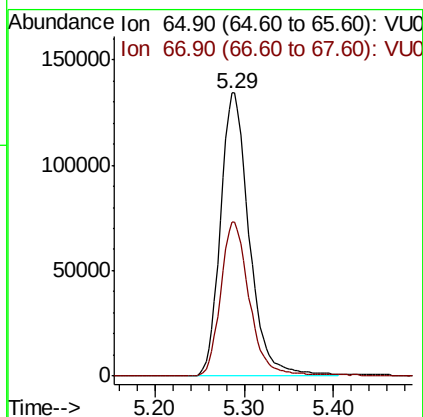
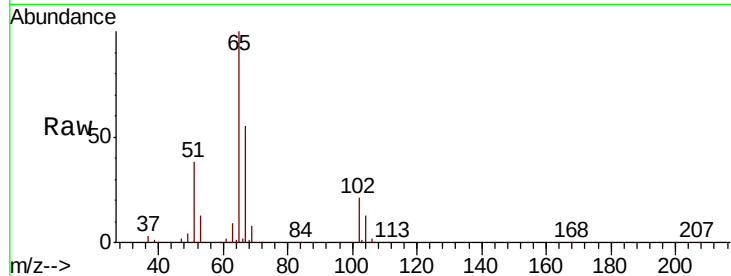




#33
 1,2-Dichloroethane-d4
 Concen: 48.174 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

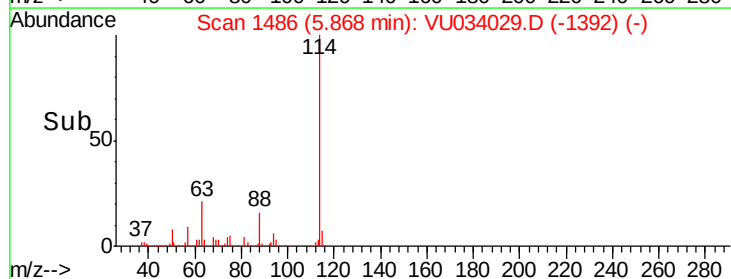
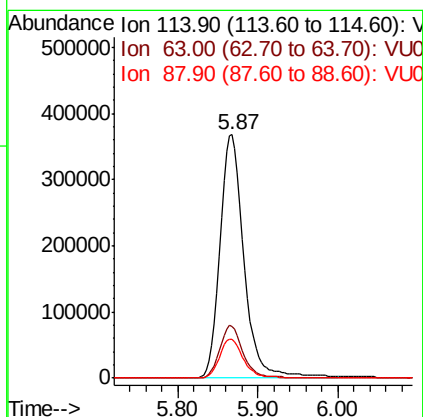
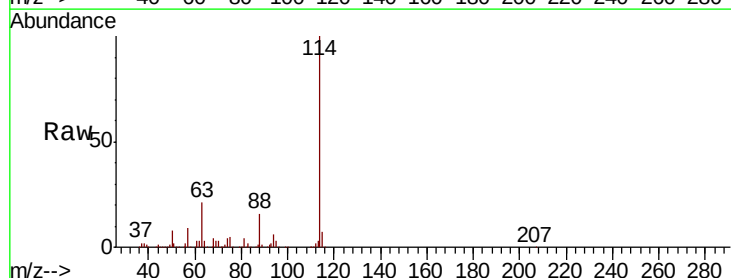
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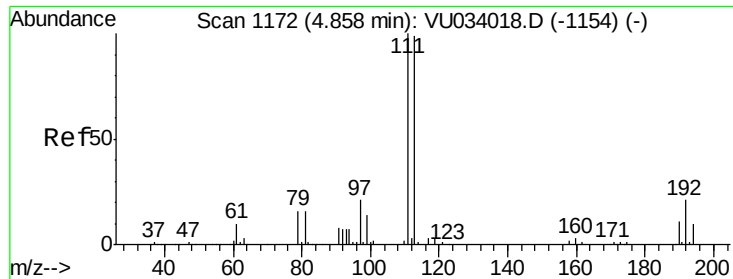
Tgt Ion: 65 Resp: 300665
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

Tgt Ion: 114 Resp: 767079
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 42.0
 88 15.9 0.0 32.0

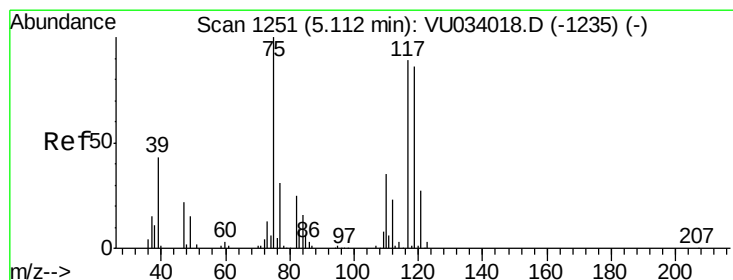
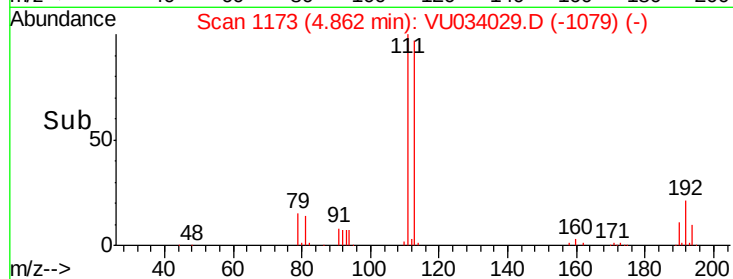
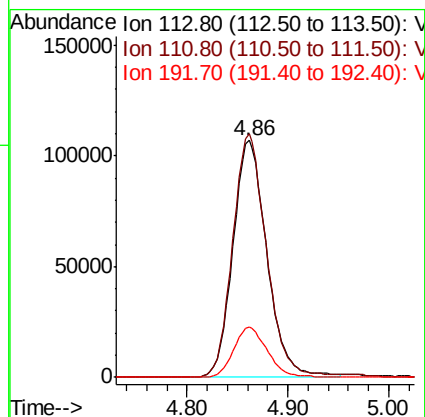
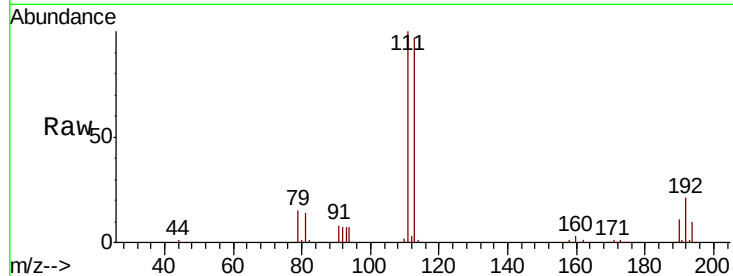




#35
 Dibromofluoromethane
 Concen: 47.087 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

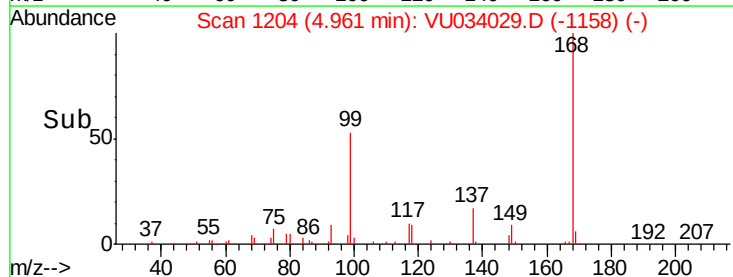
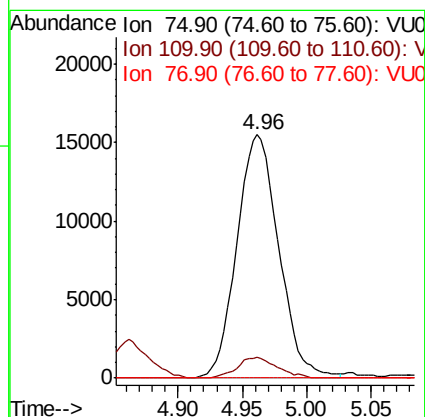
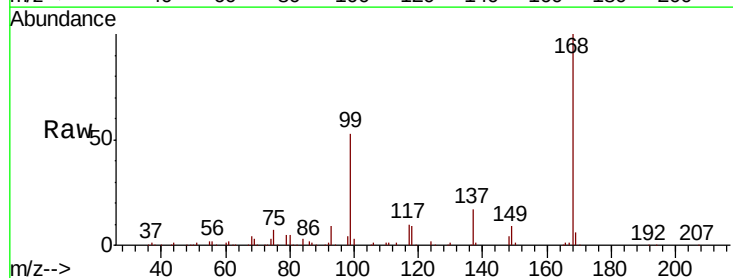
Instrument :
 MSVOA_U
 ClientSampled :
 GW-3

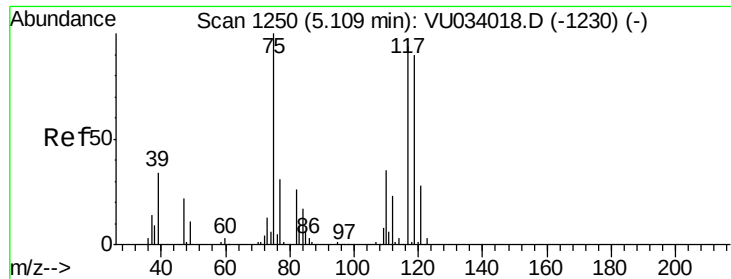
Tgt Ion:113 Resp: 250519
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.7 122.5
 192 21.0 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.830 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

Tgt Ion: 75 Resp: 35041
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.8 53.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.525 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034029.D

Acq: 28 Aug 2019 17:42

Instrument :

MSVOA_U

ClientSampled :

GW-3

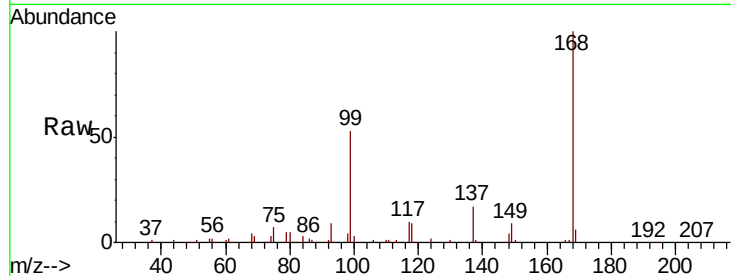
Tgt Ion: 117 Resp: 45696

Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.4#

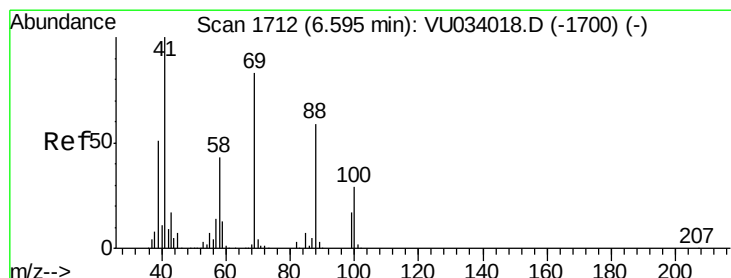
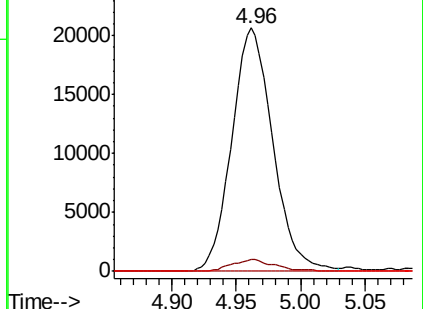
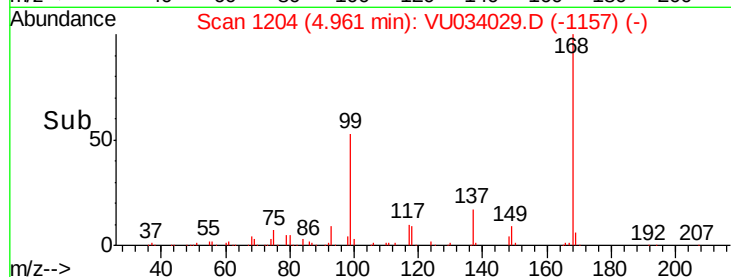
121 0.0 23.9 35.9#



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



#49

1,4-Dioxane

Concen: 0.261 ug/l

RT: 6.61 min Scan# 1718

Delta R.T. 0.02 min

Lab File: VU034029.D

Acq: 28 Aug 2019 17:42

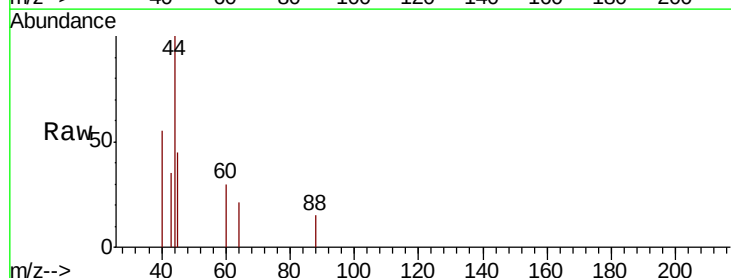
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 133.3 24.8 37.2#

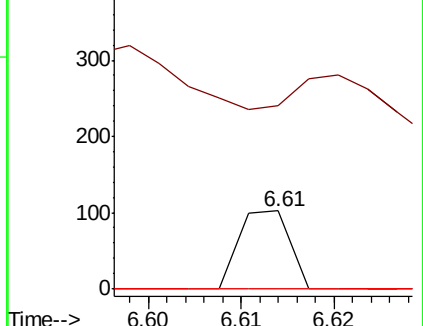
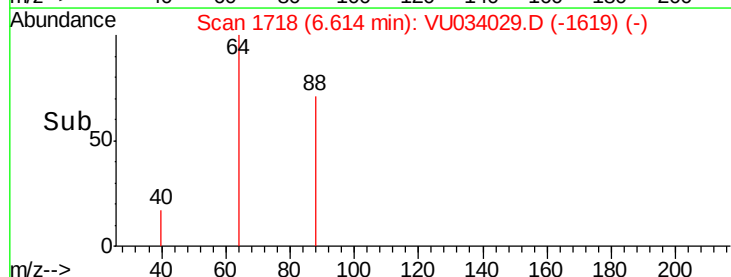
58 0.0 59.3 88.9#

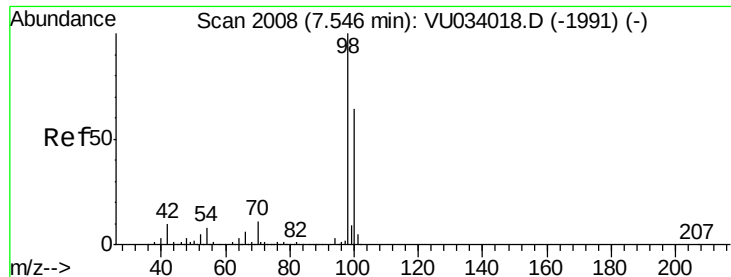


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

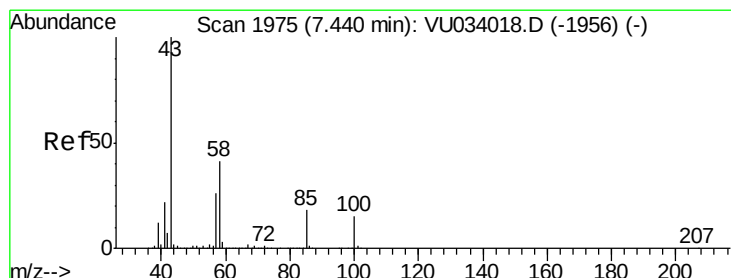
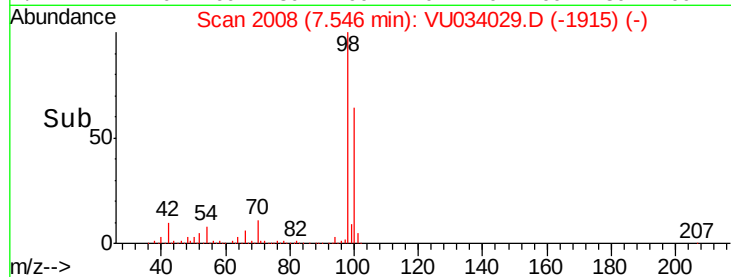
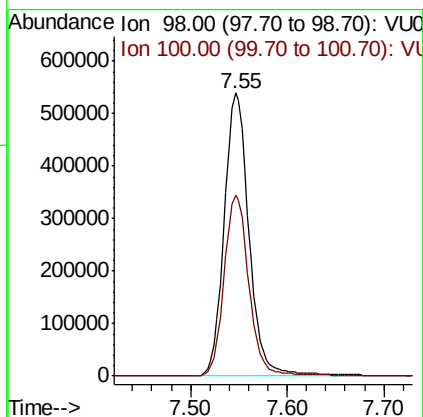
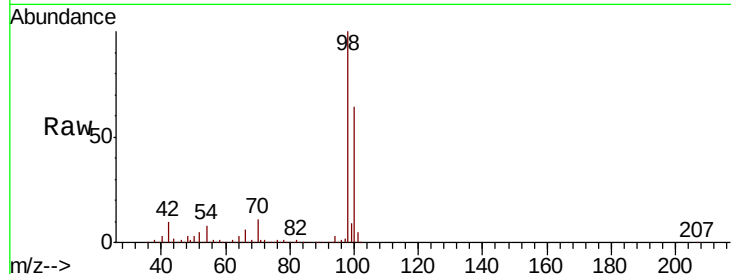




#50
Toluene-d8
Concen: 48.262 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

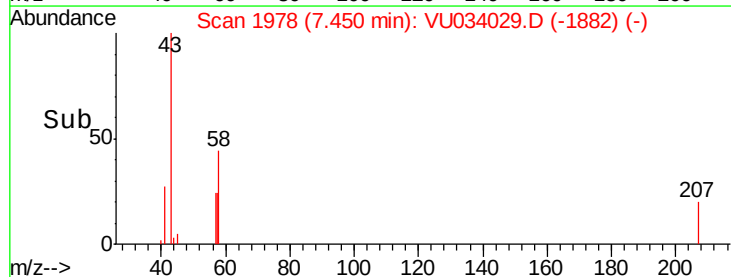
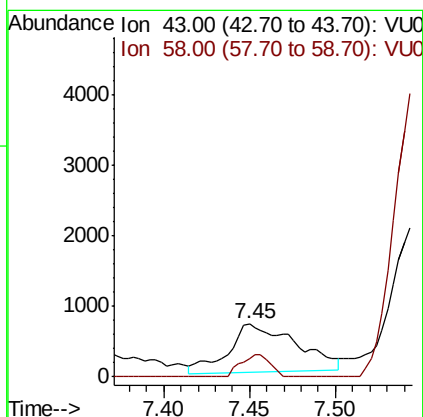
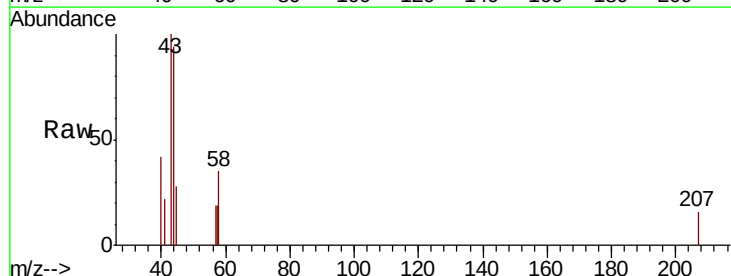
Instrument :
MSVOA_U
ClientSampleId :
GW-3

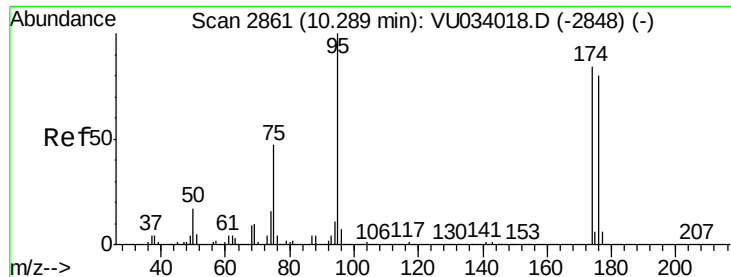
Tgt Ion: 98 Resp: 961456
Ion Ratio Lower Upper
98 100
100 64.1 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 0.219 ug/l
RT: 7.45 min Scan# 1978
Delta R.T. 0.01 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

Tgt Ion: 43 Resp: 1866
Ion Ratio Lower Upper
43 100
58 20.2 32.2 48.4#





#62

4-Bromofluorobenzene

Concen: 43.555 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034029.D

Acq: 28 Aug 2019 17:42

Instrument :

MSVOA_U

ClientSampled :

GW-3

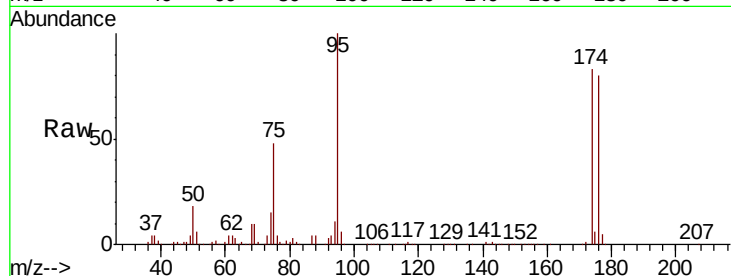
Tgt Ion: 95 Resp: 337518

Ion Ratio Lower Upper

95 100

174 84.2 0.0 168.8

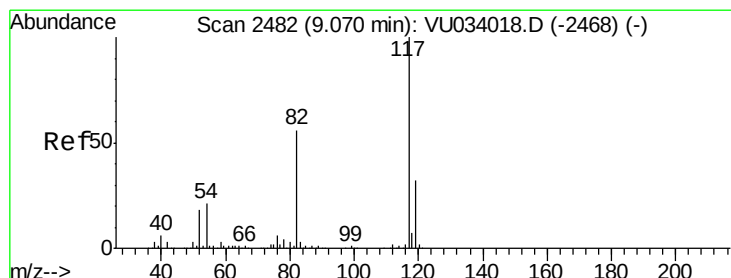
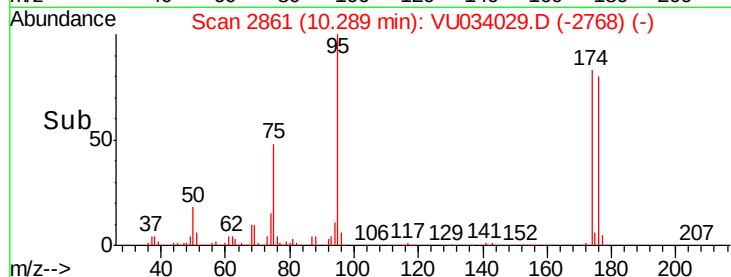
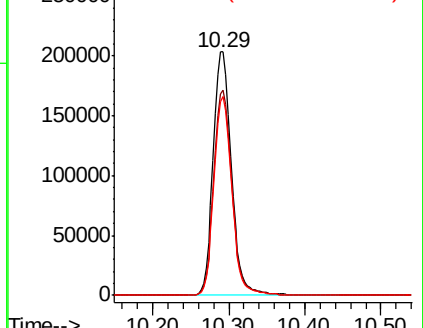
176 80.3 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034029.D

Acq: 28 Aug 2019 17:42

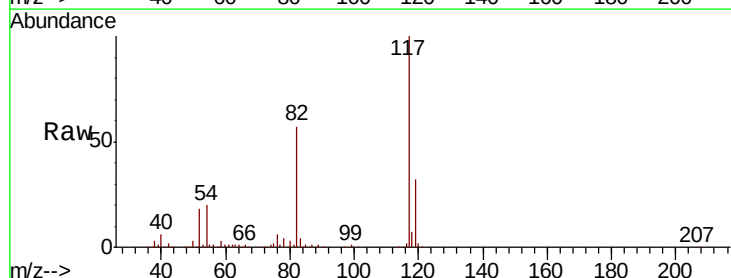
Tgt Ion: 117 Resp: 723862

Ion Ratio Lower Upper

117 100

82 56.6 45.1 67.7

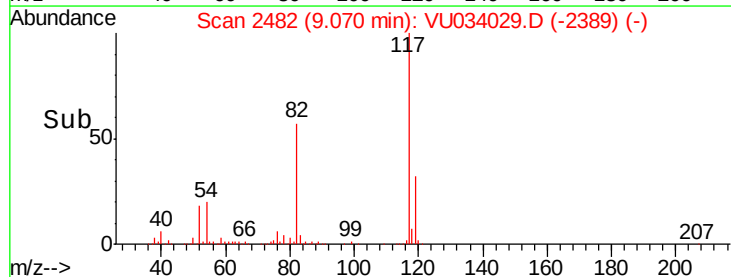
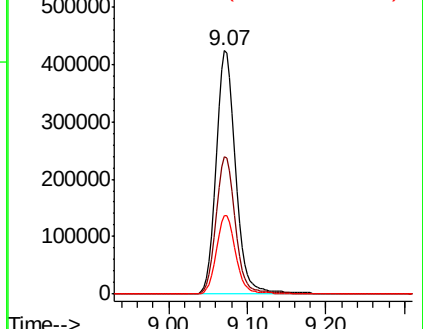
119 32.5 25.4 38.0

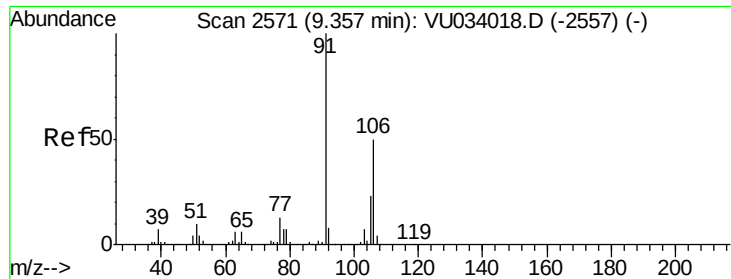


Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034018.D (-2468) (-)

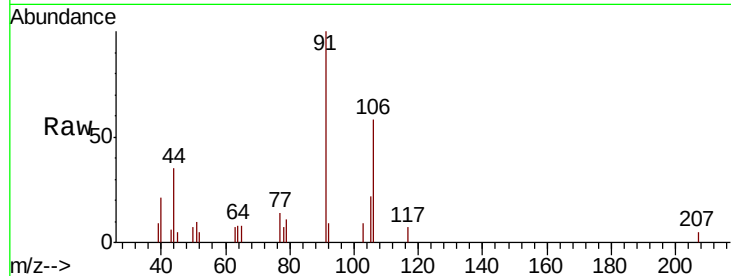




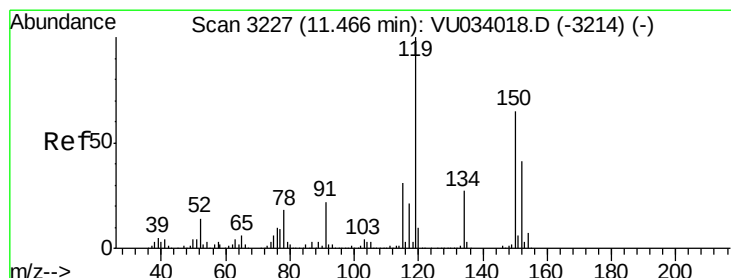
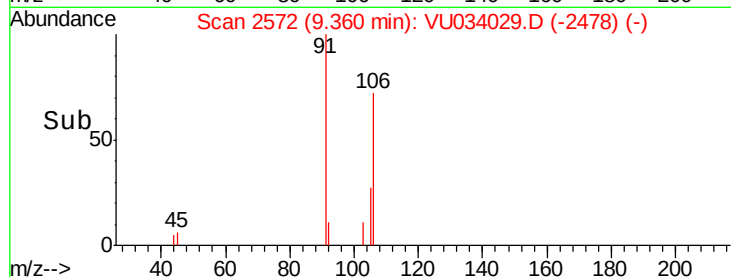
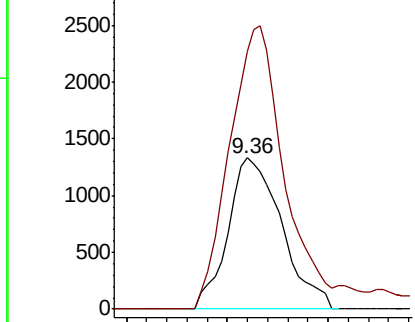
#68
m/p-Xylenes
Concen: 0.258 ug/l
RT: 9.36 min Scan# 2572
Delta R.T. 0.00 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

Instrument :
MSVOA_U
ClientSampled :
GW-3

Tgt Ion:106 Resp: 2478
Ion Ratio Lower Upper
106 100
91 188.9 161.6 242.4

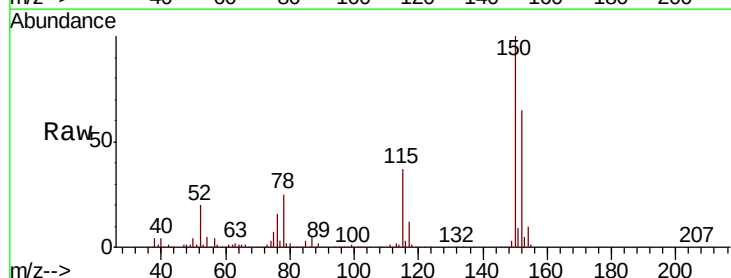


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

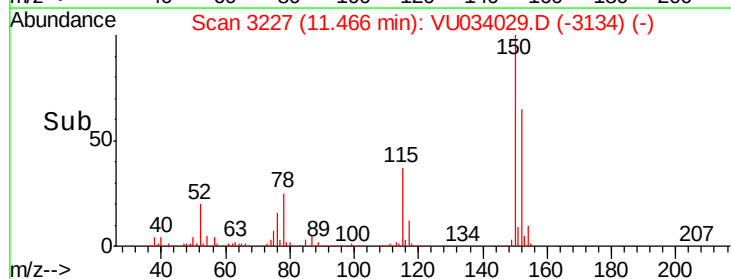
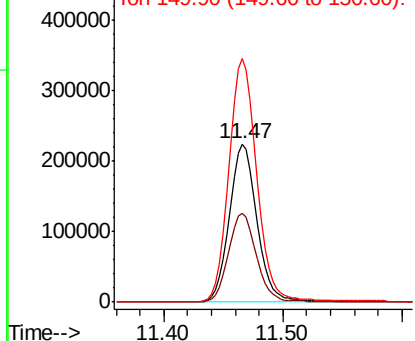


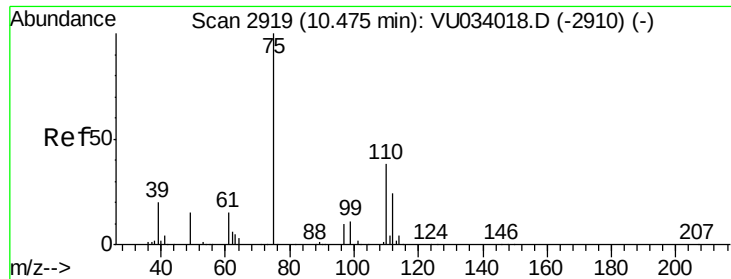
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

Tgt Ion:152 Resp: 360749
Ion Ratio Lower Upper
152 100
115 57.0 41.1 123.3
150 155.4 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

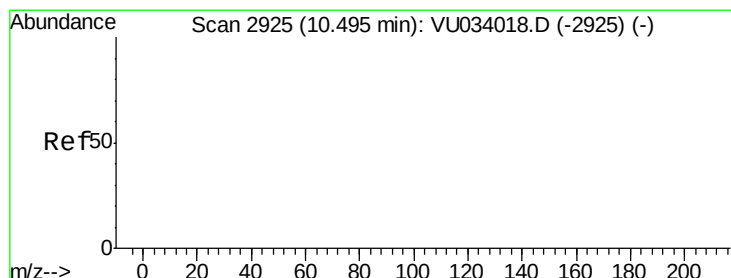
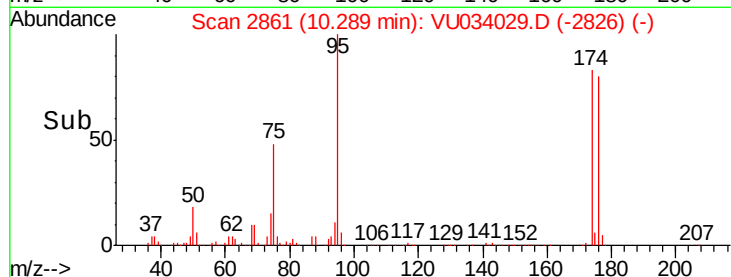
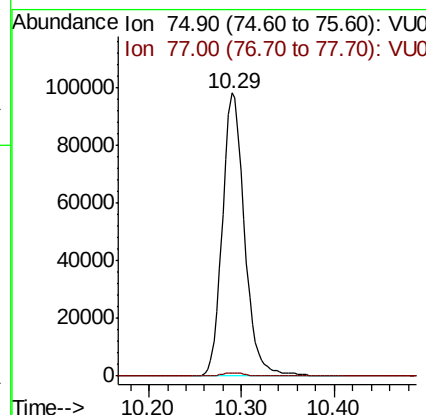
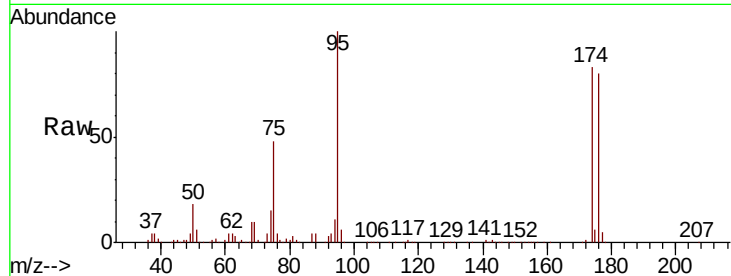




#76
 1,2,3-Trichloropropane
 Concen: 20.042 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

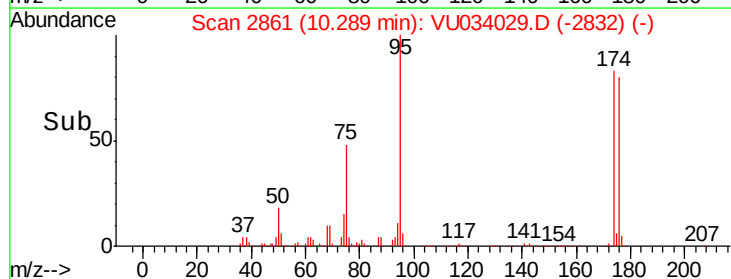
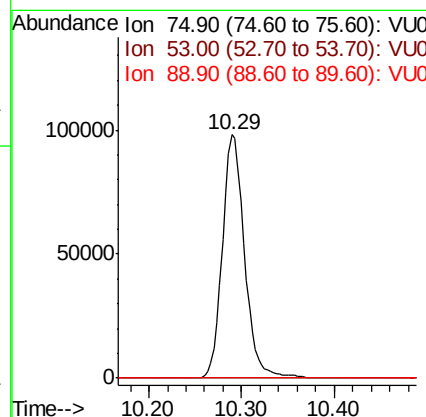
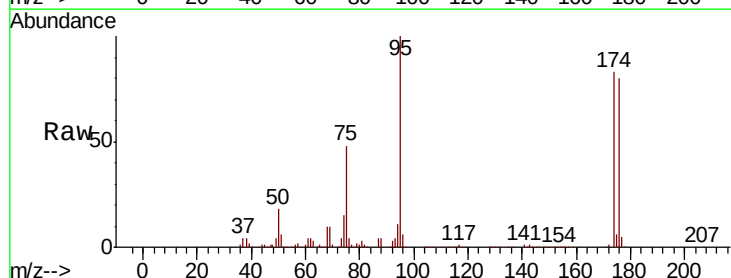
Instrument :
 MSVOA_U
 ClientSampled :
 GW-3

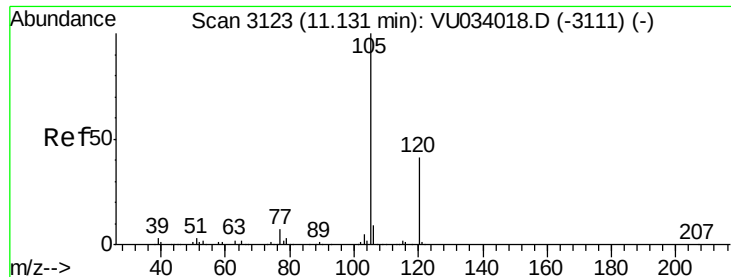
Tgt Ion: 75 Resp: 162958
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.488 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

Tgt Ion: 75 Resp: 162958
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

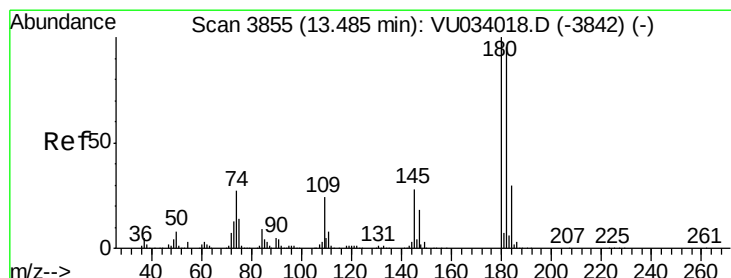
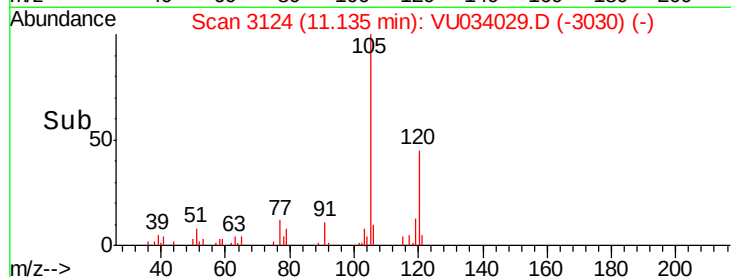
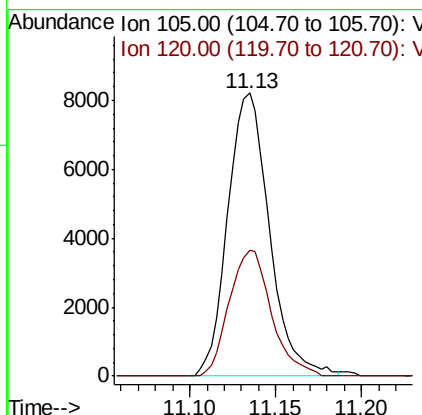
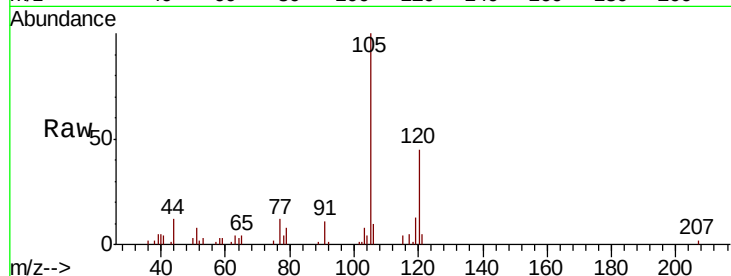




#84
 1,2,4-Trimethylbenzene
 Concen: 0.680 ug/l
 RT: 11.13 min Scan# 3124
 Delta R.T. 0.00 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

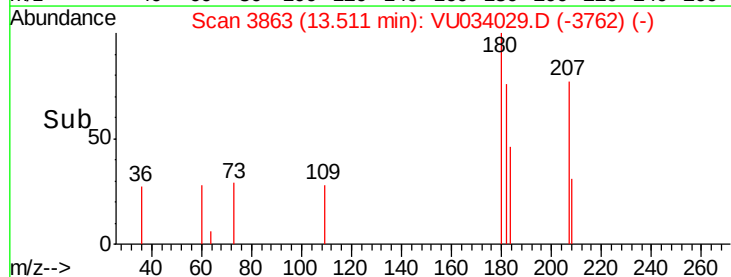
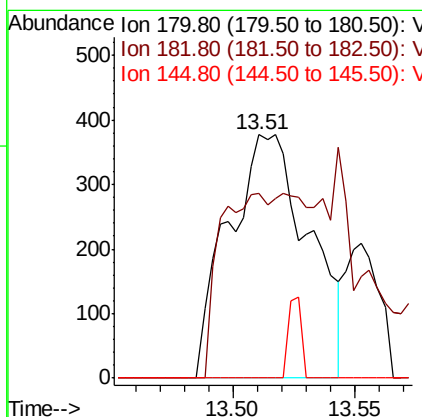
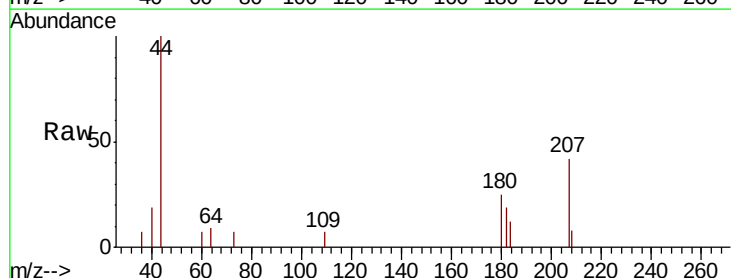
Instrument :
 MSVOA_U
 ClientSampleId :
 GW-3

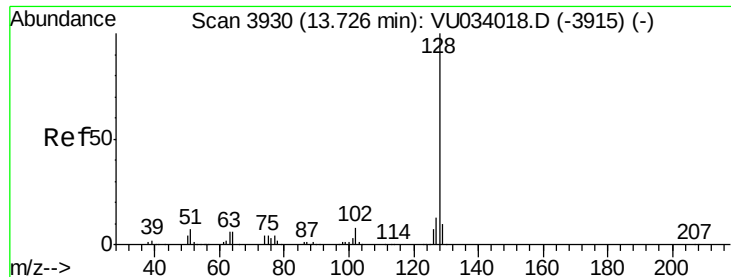
Tgt Ion:105 Resp: 13858
 Ion Ratio Lower Upper
 105 100
 120 44.9 22.6 67.8



#93
 1,2,4-Trichlorobenzene
 Concen: 1.221 ug/l
 RT: 13.51 min Scan# 3863
 Delta R.T. 0.03 min
 Lab File: VU034029.D
 Acq: 28 Aug 2019 17:42

Tgt Ion:180 Resp: 865
 Ion Ratio Lower Upper
 180 100
 182 45.7 47.4 142.2#
 145 5.4 14.1 42.3#

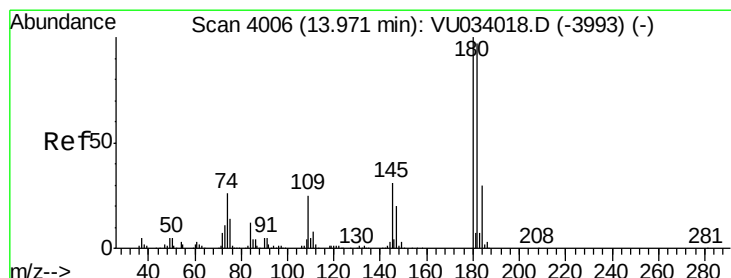
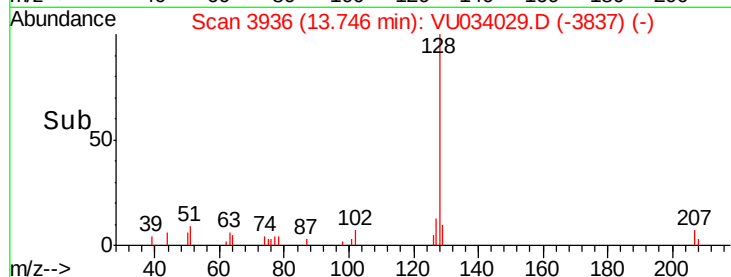
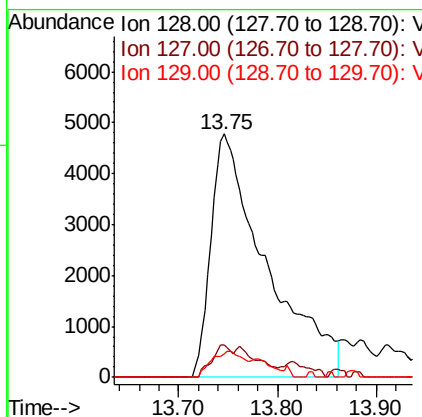
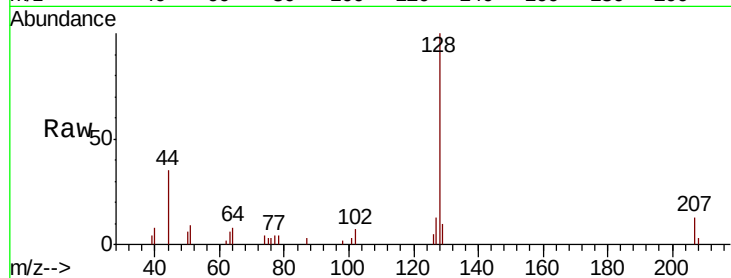




#95
Naphthalene
Concen: 2.586 ug/l
RT: 13.75 min Scan# 3936
Delta R.T. 0.02 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

Instrument :
MSVOA_U
ClientSampleId :
GW-3

Tgt Ion:128 Resp: 18600
Ion Ratio Lower Upper
128 100
127 4.8 10.2 15.4#
129 6.3 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 0.204 ug/l
RT: 13.99 min Scan# 4011
Delta R.T. 0.02 min
Lab File: VU034029.D
Acq: 28 Aug 2019 17:42

Tgt Ion:180 Resp: 1442
Ion Ratio Lower Upper
180 100
182 94.9 48.2 144.6
145 21.3 15.5 46.5

