

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
 Data File : VU034088.D
 Acq On : 30 Aug 2019 11:15
 Operator : JC/SP
 Sample : PB122672TB
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB122672TB

Quant Time: Aug 31 03:37:38 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	460635	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	744515	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	734157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	341955	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	296320	50.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.40%	
35) Dibromofluoromethane	4.86	113	246463	47.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.46%	
50) Toluene-d8	7.55	98	964851	49.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	10.29	95	330120	43.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.78%	

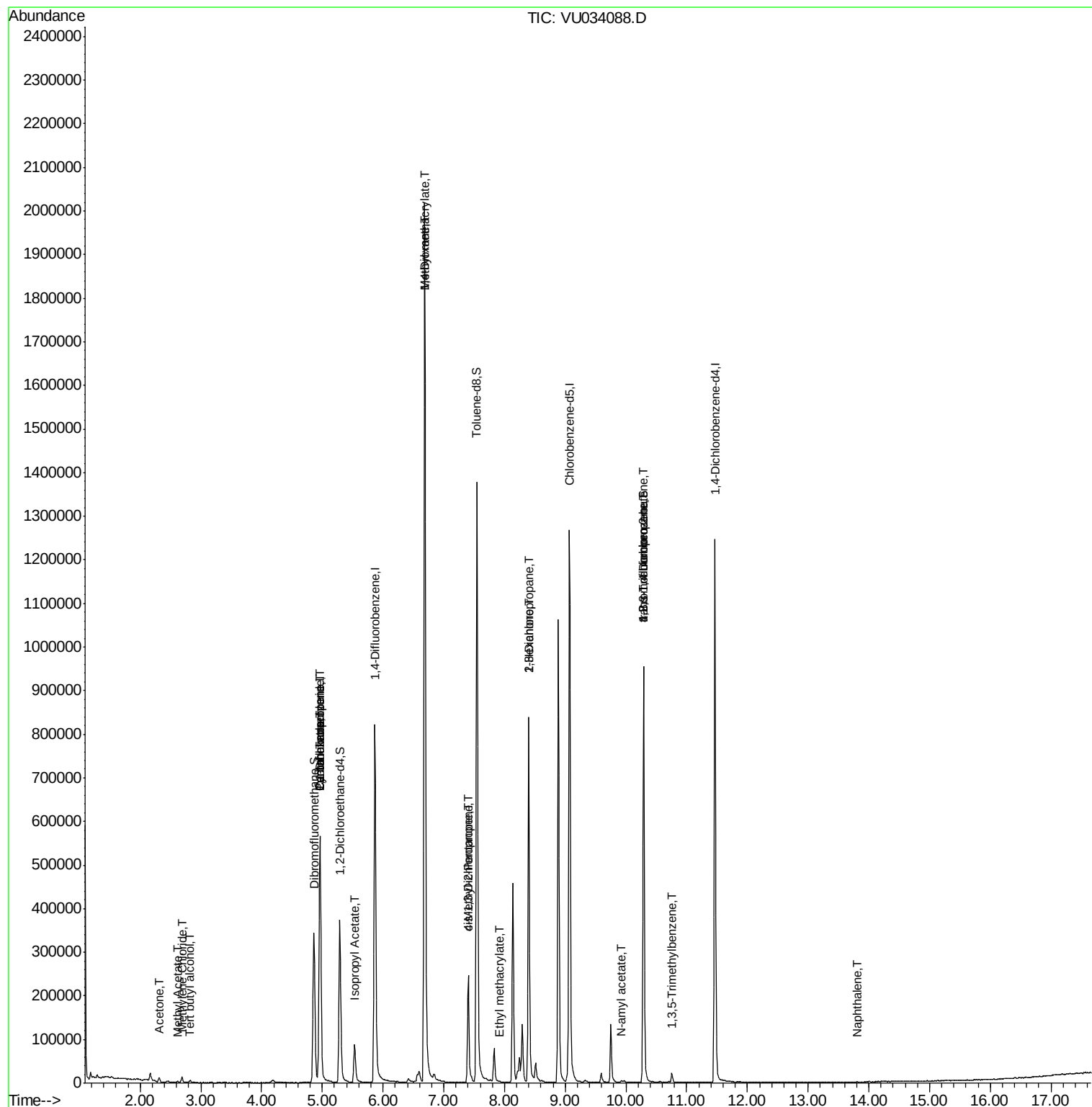
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	934	Below Cal		96
5) Bromomethane	1.63	94	312	Below Cal		100
11) Tert butyl alcohol	2.83	59	3099	2.277	ug/l #	73
16) Acetone	2.31	43	11410	3.789	ug/l	99
18) Methyl Acetate	2.61	43	4600	0.591	ug/l #	89
20) Methylene Chloride	2.69	84	5416	0.950	ug/l	92
31) Cyclohexane	4.96	56	8489	0.963	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33915	4.816	ug/l #	48
38) Carbon Tetrachloride	4.96	117	40515	5.960	ug/l #	16
43) Isopropyl Acetate	5.53	43	106249	8.856	ug/l	97
48) Methyl methacrylate	6.68	41	181353	31.326	ug/l #	40
49) 1,4-Dioxane	6.68	88	268	1.848	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	89335	10.782	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	45125	5.035	ug/l #	65
56) Ethyl methacrylate	7.92	69	252	0.998	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	8758	0.929	ug/l #	42
59) 2-Hexanone	8.40	43	115669	18.493	ug/l #	52
74) N-amyl acetate	9.92	43	2905	0.301	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	159687	20.720	ug/l #	37
80) 1,3,5-Trimethylbenzene	10.76	105	12438	0.639	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.29	75	159687	69.768	ug/l #	100
95) Naphthalene	13.80	128	116	1.795	ug/l #	70

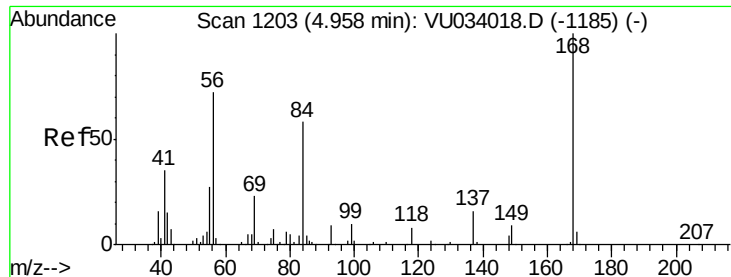
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 31 03:37:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

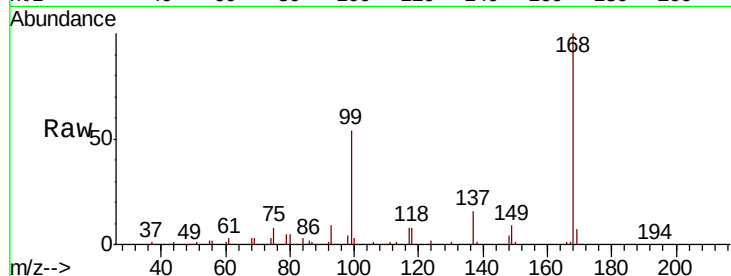
PB122672TB

Tgt Ion:168 Resp: 460635

Ion Ratio Lower Upper

168 100

99 53.9 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

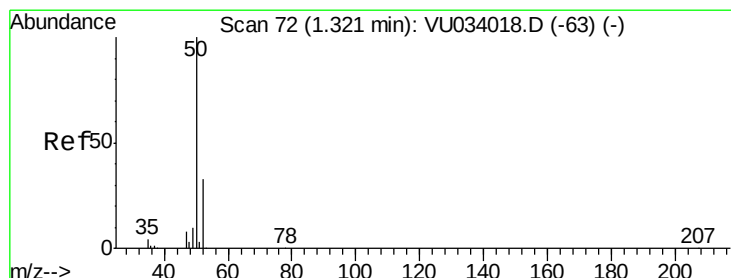
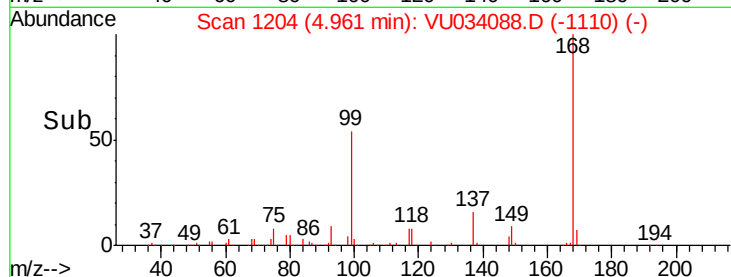
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034088.D

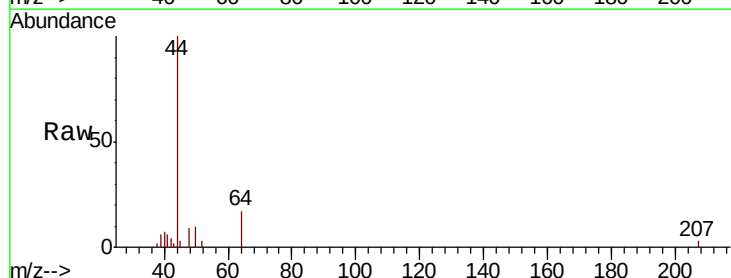
Acq: 30 Aug 2019 11:15

Tgt Ion: 50 Resp: 934

Ion Ratio Lower Upper

50 100

52 30.6 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) (-)

1.33

800

600

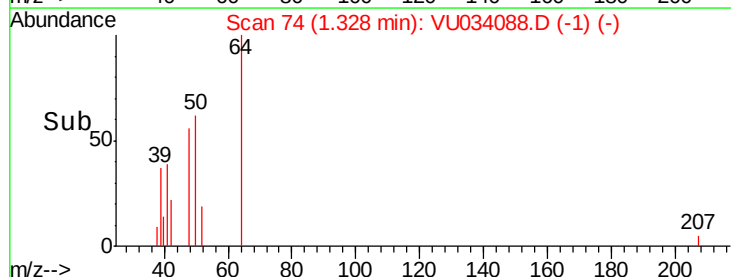
400

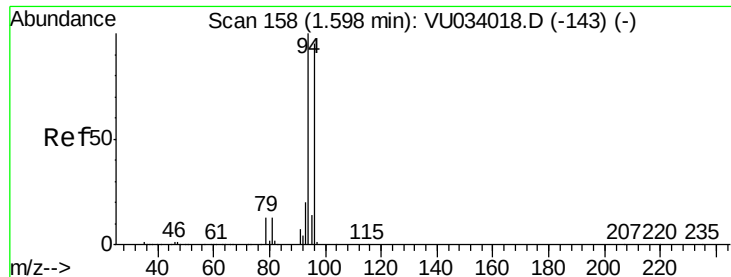
200

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: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

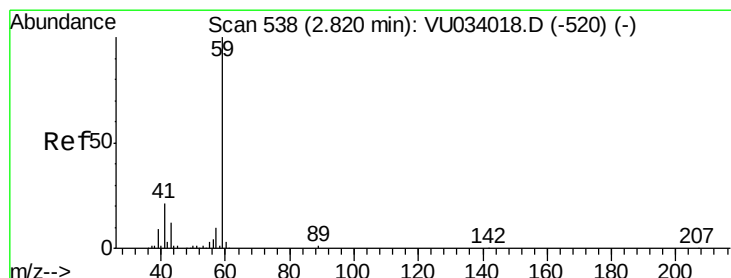
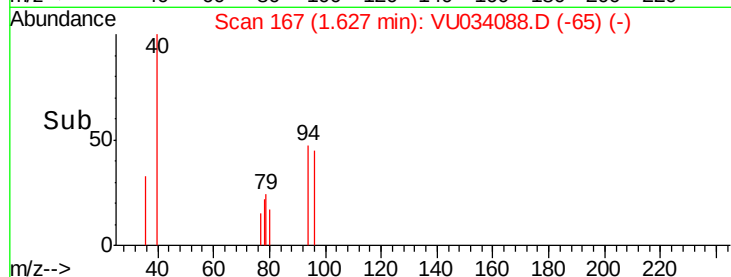
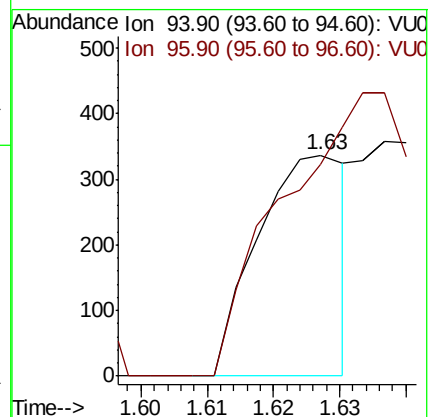
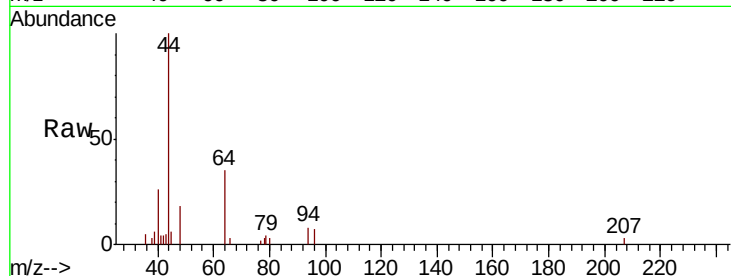
PB122672TB

Tgt Ion: 94 Resp: 312

Ion Ratio Lower Upper

94 100

96 95.8 76.3 114.5



#11

Tert butyl alcohol

Concen: 2.277 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034088.D

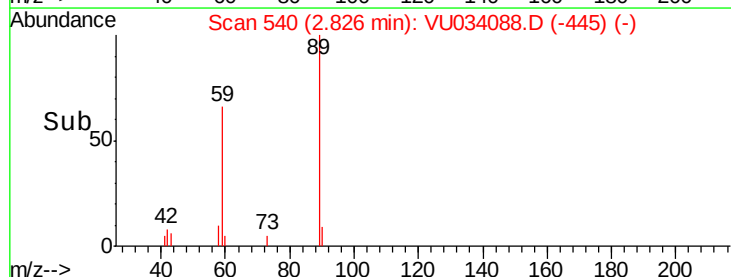
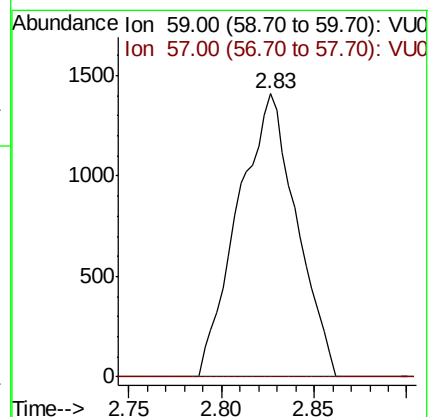
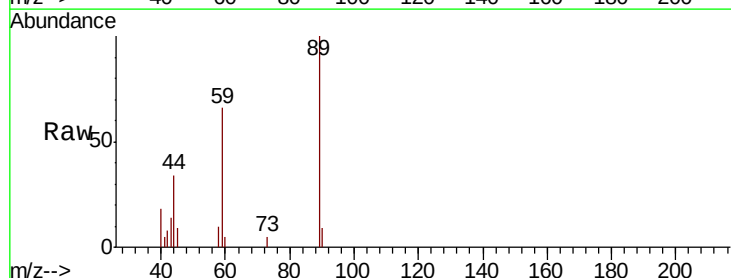
Acq: 30 Aug 2019 11:15

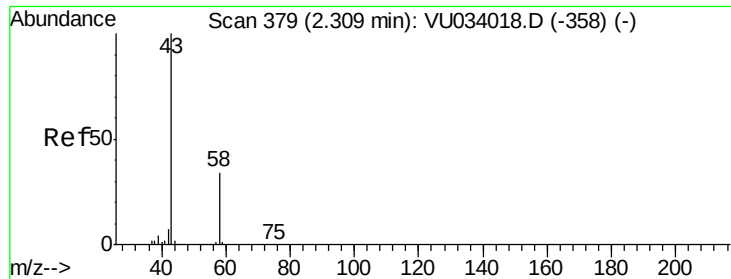
Tgt Ion: 59 Resp: 3099

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#16

Acetone

Concen: 3.789 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

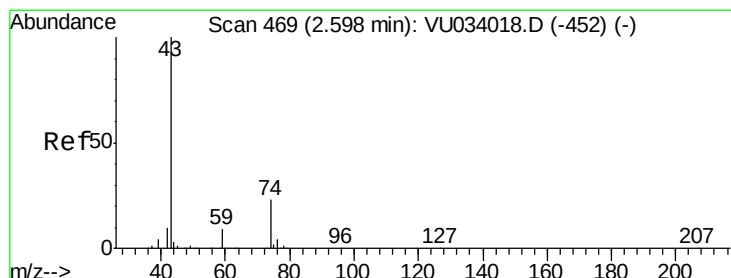
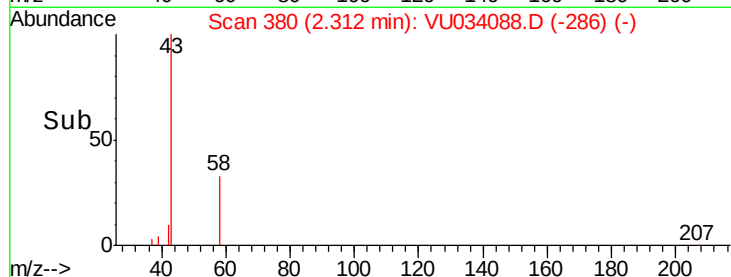
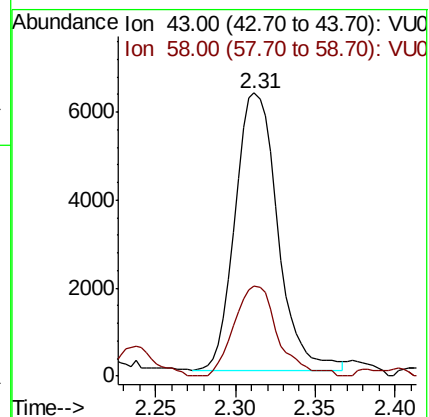
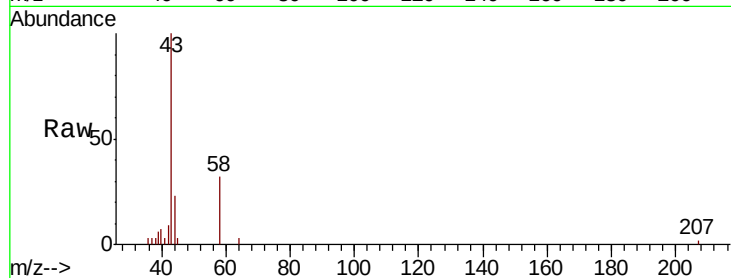
PB122672TB

Tgt Ion: 43 Resp: 11410

Ion Ratio Lower Upper

43 100

58 32.7 26.8 40.2



#18

Methyl Acetate

Concen: 0.591 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034088.D

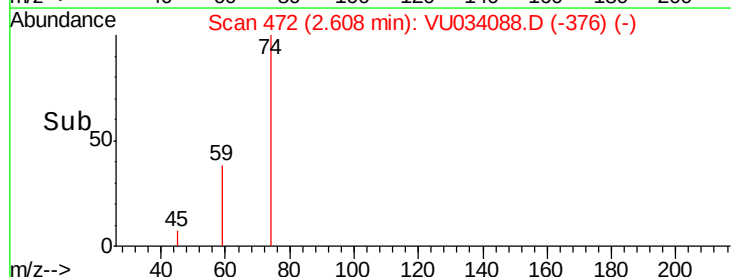
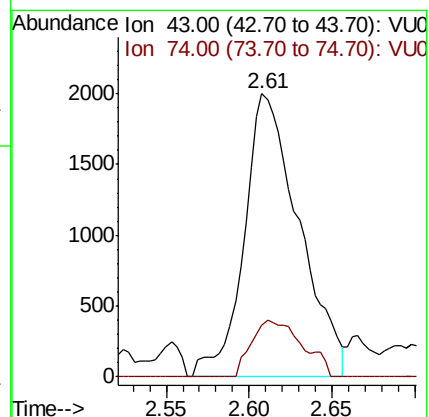
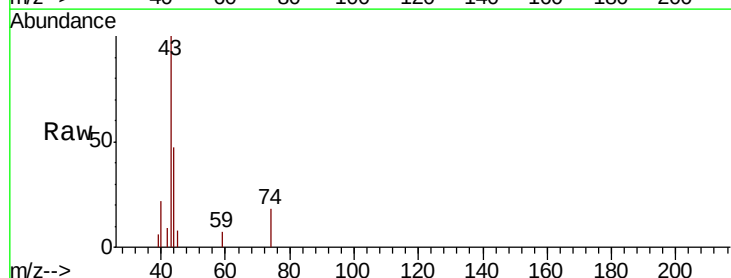
Acq: 30 Aug 2019 11:15

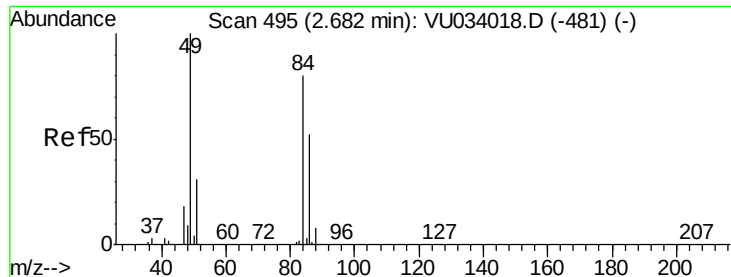
Tgt Ion: 43 Resp: 4600

Ion Ratio Lower Upper

43 100

74 18.6 19.2 28.8#

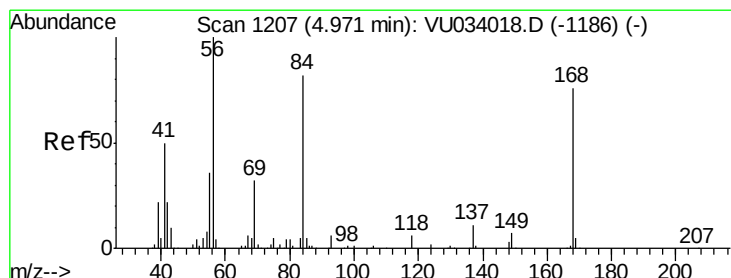
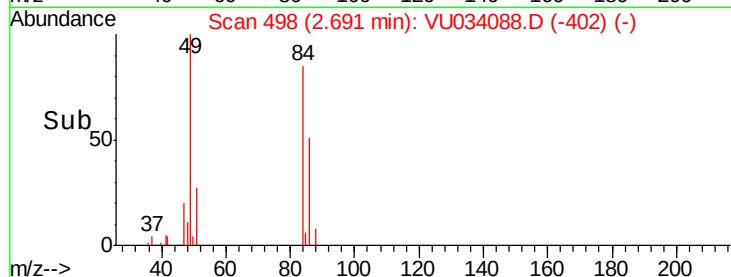
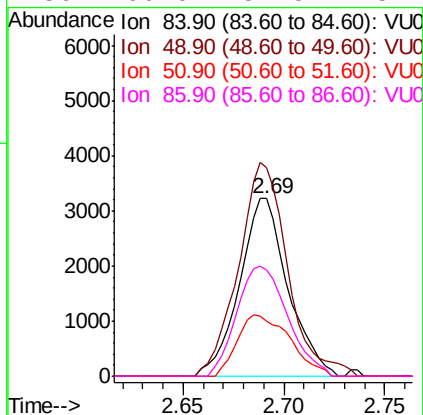
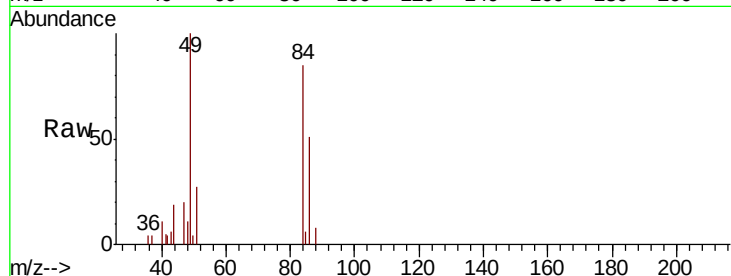




#20
Methylene Chloride
Concen: 0.950 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034088.D
Acq: 30 Aug 2019 11:15

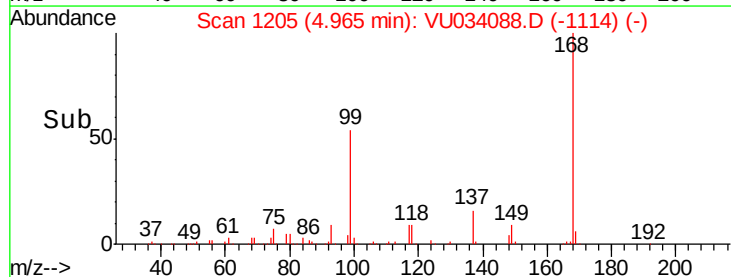
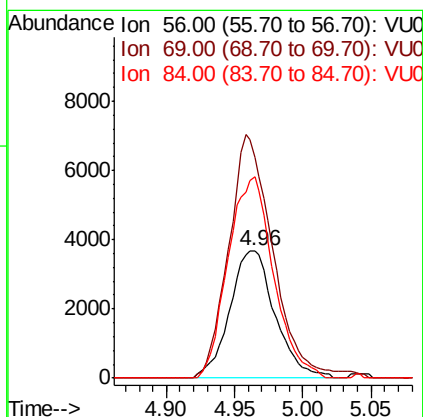
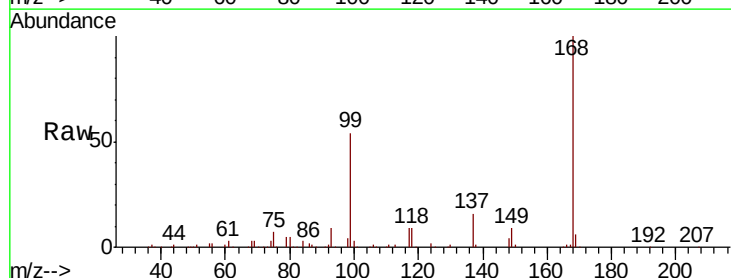
Instrument :
MSVOA_U
ClientSampleId :
PB122672TB

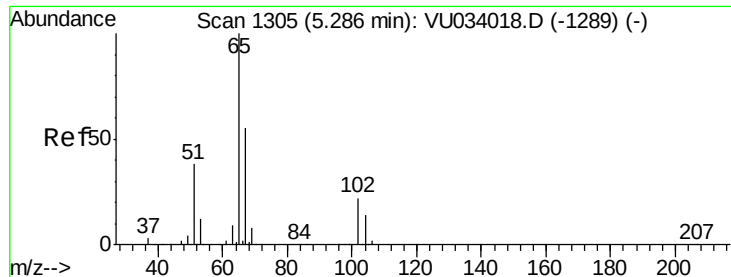
Tgt Ion:	84	Resp:	5416
Ion	Ratio	Lower	Upper
84	100		
49	117.1	100.2	150.4
51	31.2	30.8	46.2
86	60.0	52.5	78.7



#31
Cyclohexane
Concen: 0.963 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034088.D
Acq: 30 Aug 2019 11:15

Tgt Ion:	56	Resp:	8489
Ion	Ratio	Lower	Upper
56	100		
69	173.1	25.4	38.0#
84	158.0	65.8	98.8#

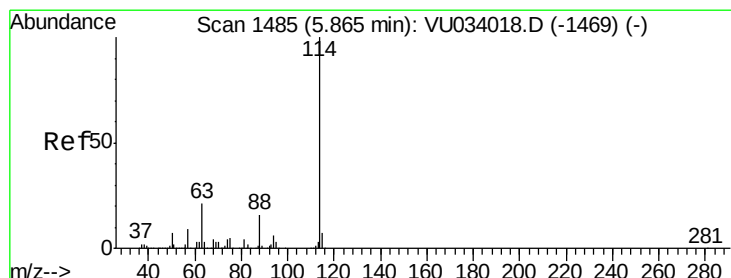
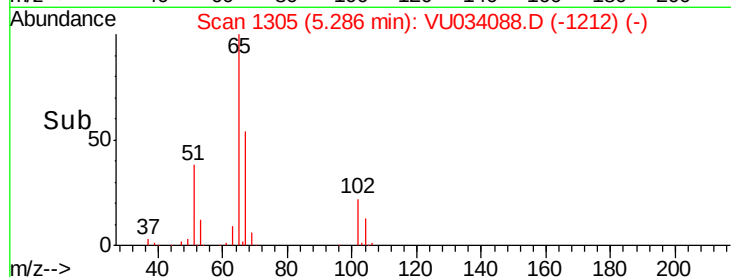
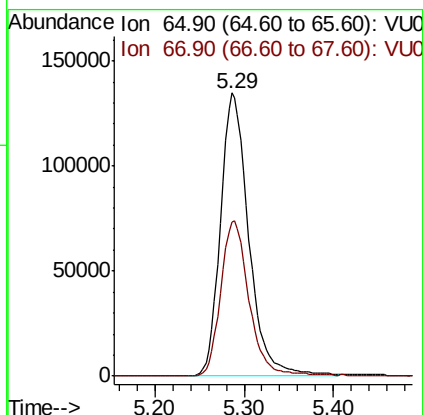
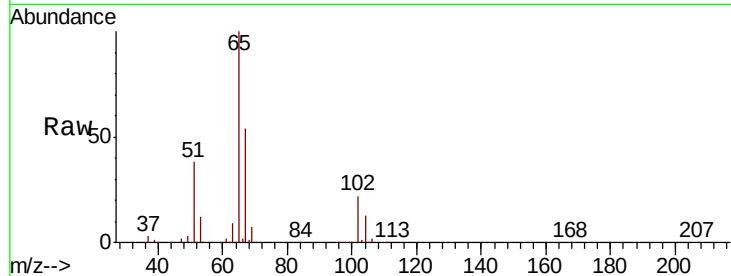




#33
 1,2-Dichloroethane-d4
 Concen: 50.204 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

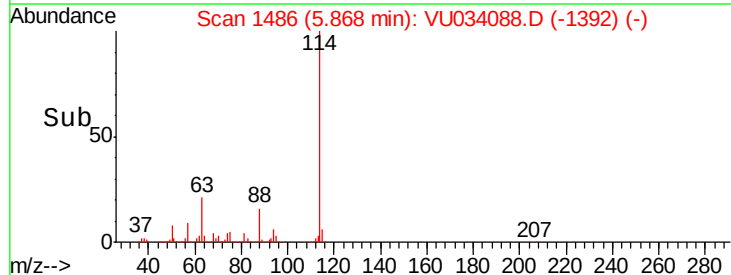
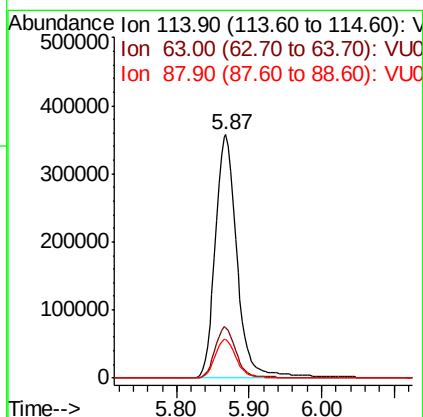
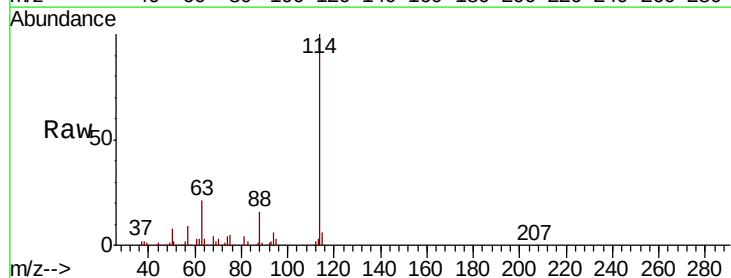
Instrument :
 MSVOA_U
 ClientSampleId :
 PB122672TB

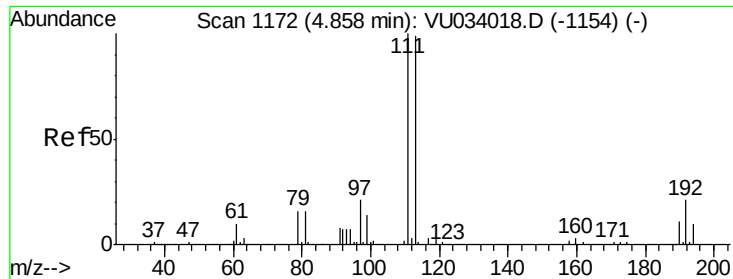
Tgt Ion: 65 Resp: 296320
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

Tgt Ion: 114 Resp: 744515
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.0
 88 15.9 0.0 32.0

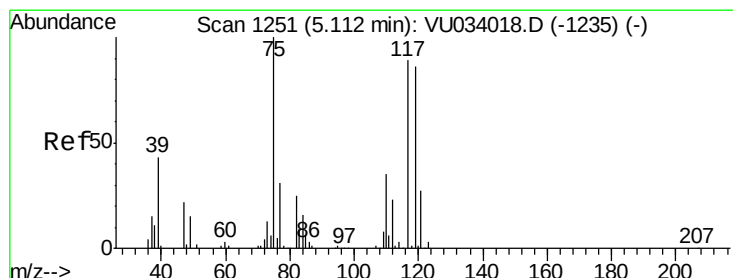
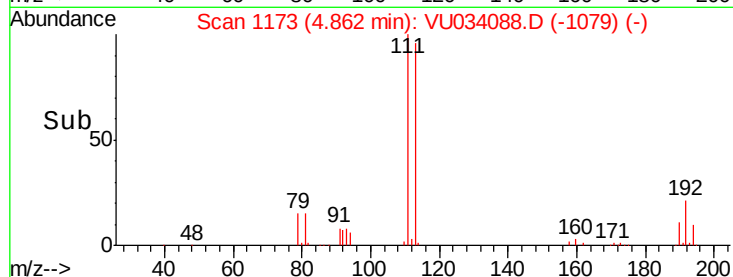
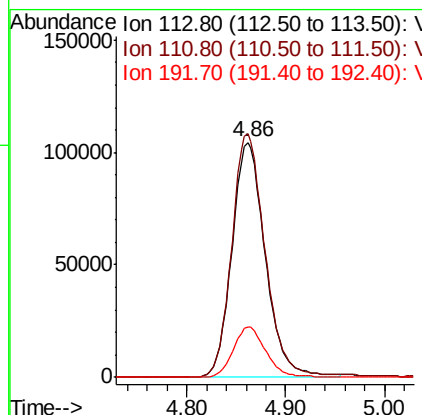
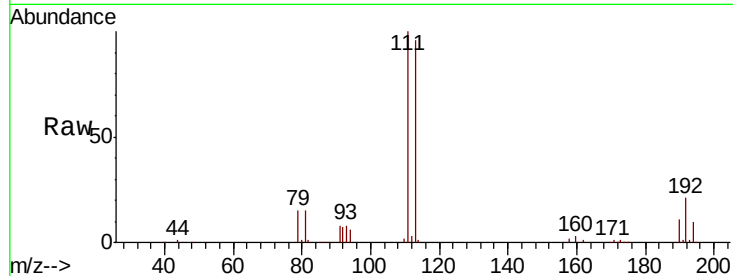




#35
 Dibromofluoromethane
 Concen: 47.728 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

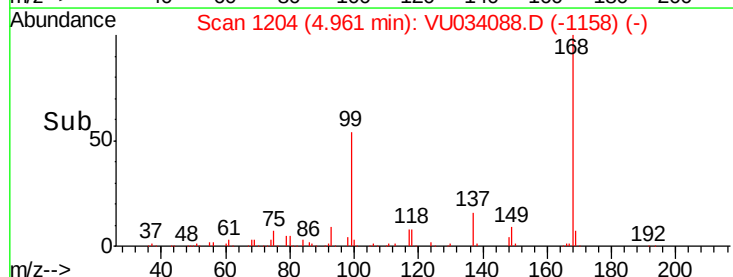
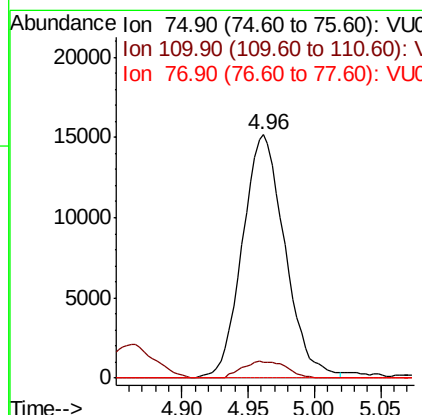
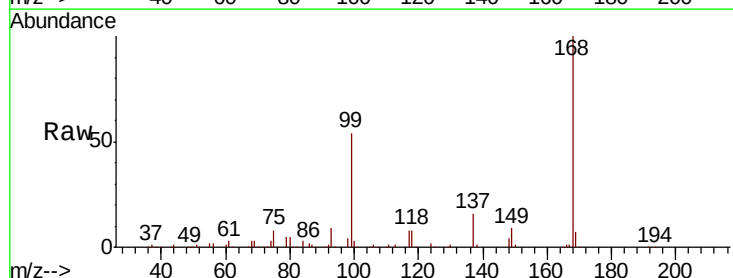
Instrument :
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 ClientSampleId :
 PB122672TB

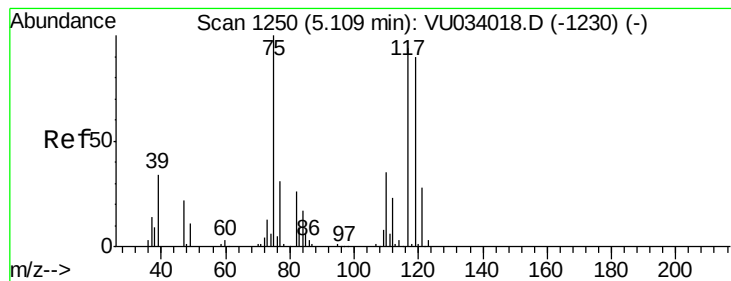
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.7	122.5
192	21.0	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.816 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.2	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.960 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

PB122672TB

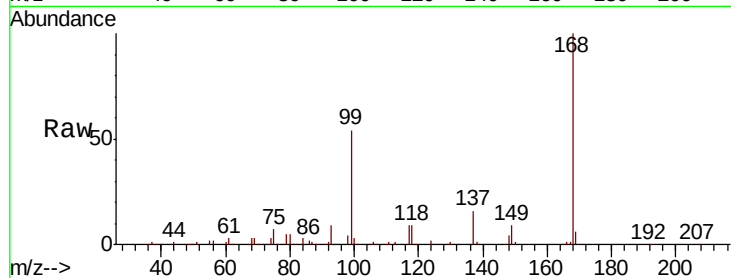
Tgt Ion: 117 Resp: 40515

Ion Ratio Lower Upper

117 100

119 5.4 77.0 115.4#

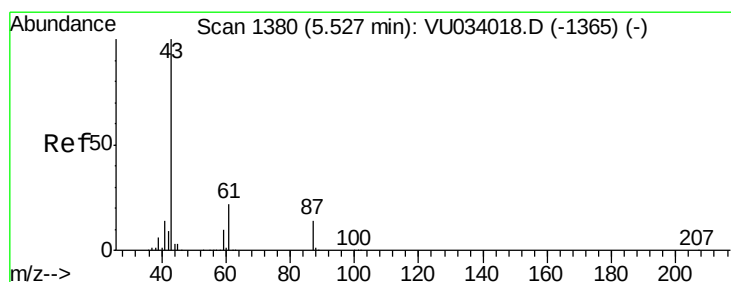
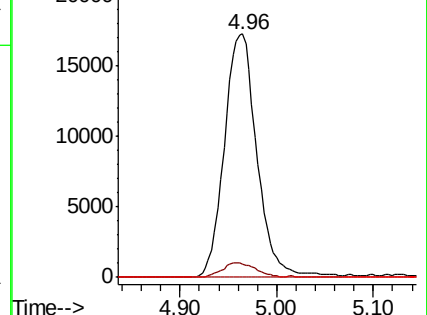
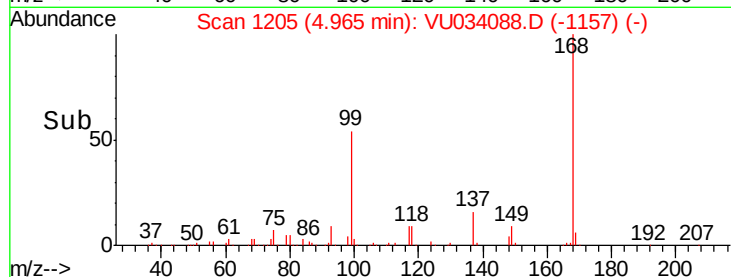
121 0.0 23.9 35.9#



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: 8.856 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

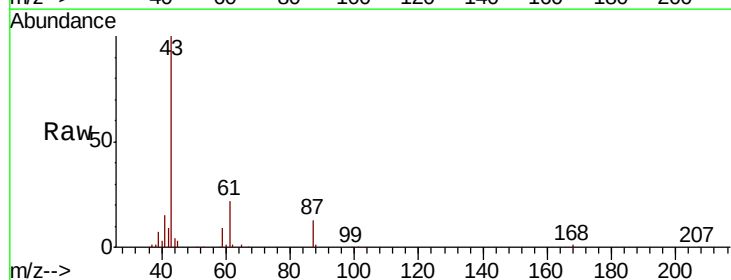
Tgt Ion: 43 Resp: 106249

Ion Ratio Lower Upper

43 100

61 20.0 17.2 25.8

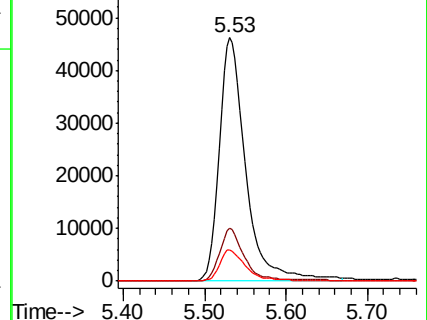
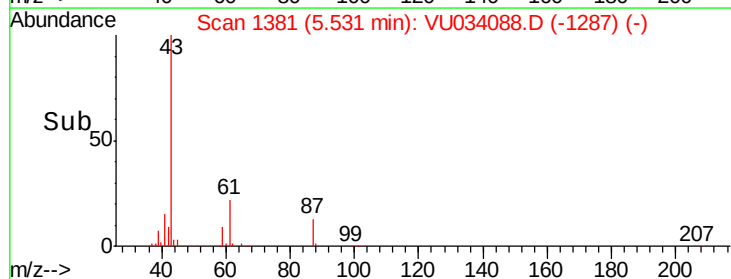
87 12.7 10.8 16.2

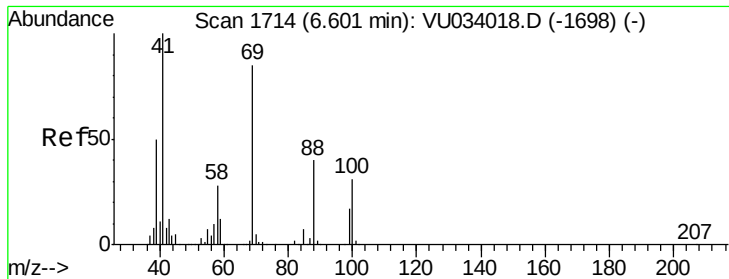


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 31.326 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

PB122672TB

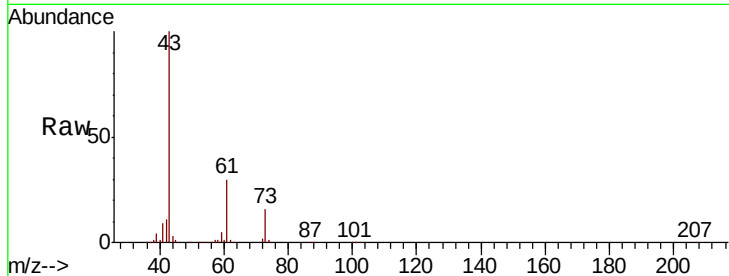
Tgt Ion: 41 Resp: 181353

Ion Ratio Lower Upper

41 100

69 0.1 69.5 104.3#

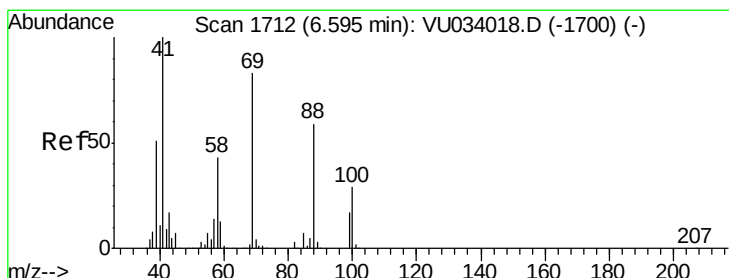
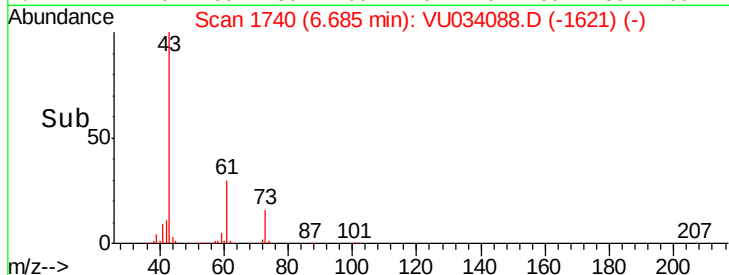
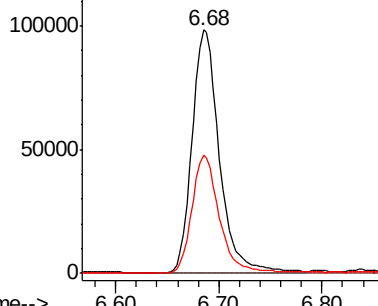
39 49.2 40.3 60.5



Abundance Ion 41.00 (40.70 to 41.70): VU034088.D (-1698) (-)

Ion 69.00 (68.70 to 69.70): VU034088.D (-1698) (-)

Ion 39.00 (38.70 to 39.70): VU034088.D (-1698) (-)



#49

1,4-Dioxane

Concen: 1.848 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.09 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

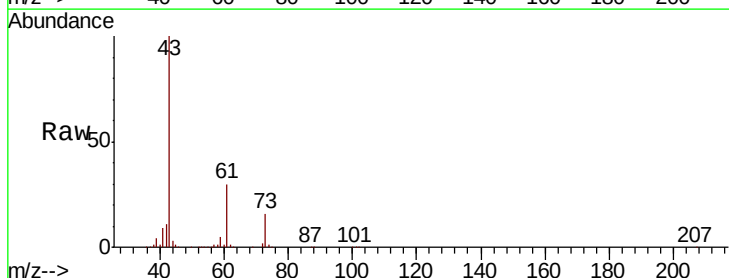
Tgt Ion: 88 Resp: 268

Ion Ratio Lower Upper

88 100

43 733110.4 24.8 37.2#

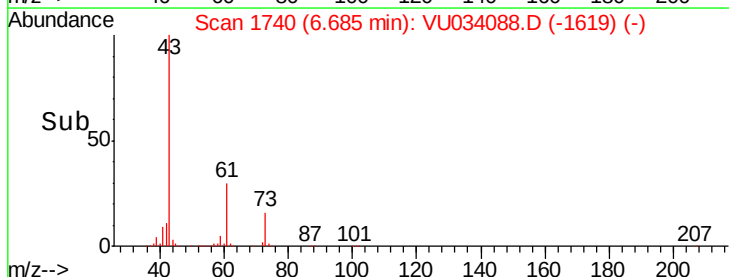
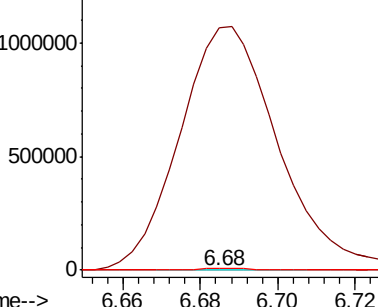
58 3966.4 59.3 88.9#

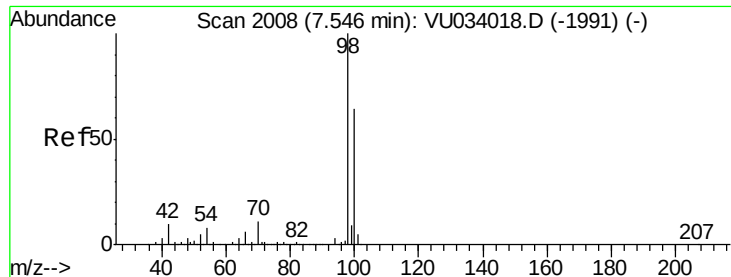


Abundance Ion 88.00 (87.70 to 88.70): VU034088.D (-1619) (-)

Ion 43.00 (42.70 to 43.70): VU034088.D (-1619) (-)

Ion 58.00 (57.70 to 58.70): VU034088.D (-1619) (-)

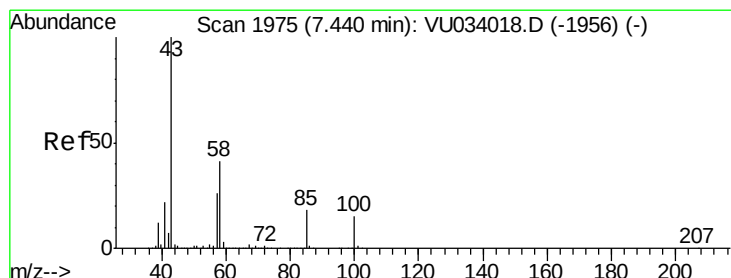
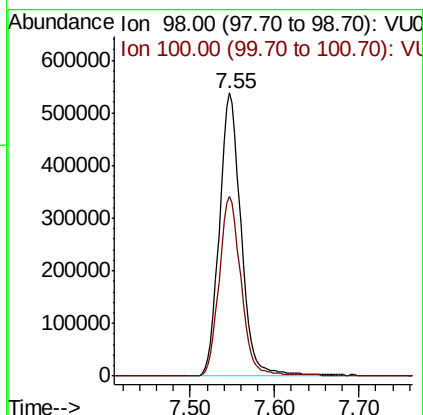
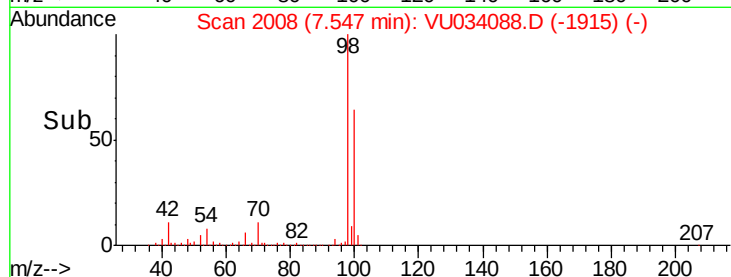
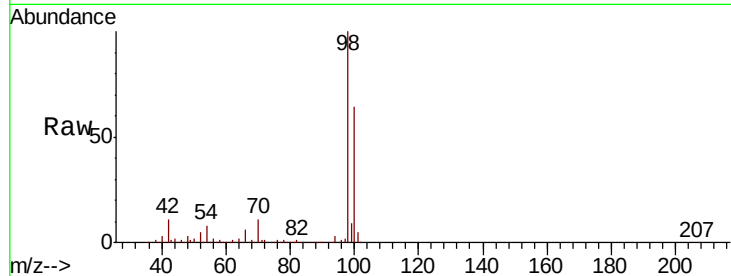




#50
Toluene-d8
Concen: 49.900 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034088.D
Acq: 30 Aug 2019 11:15

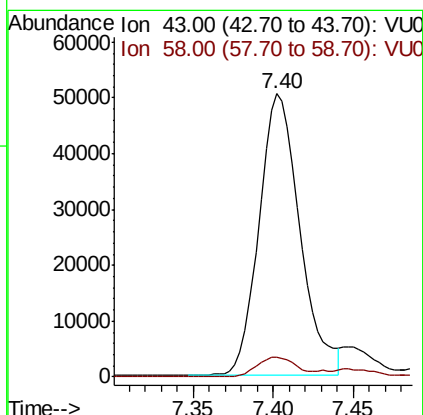
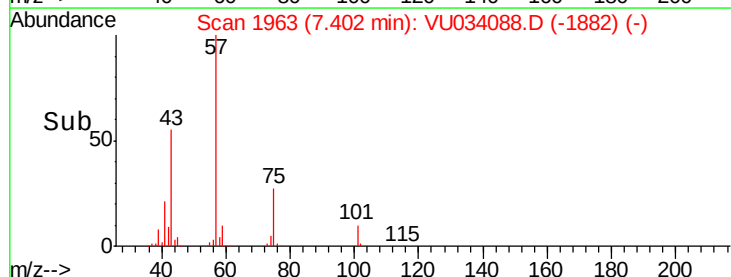
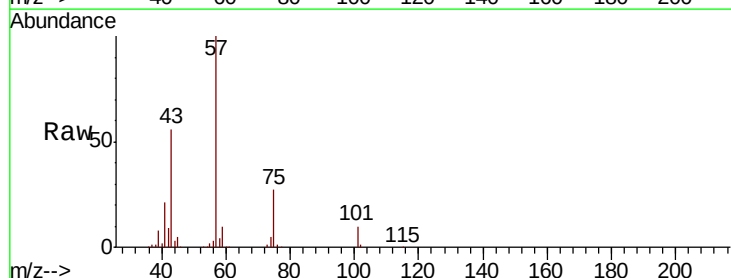
Instrument :
MSVOA_U
ClientSampleId :
PB122672TB

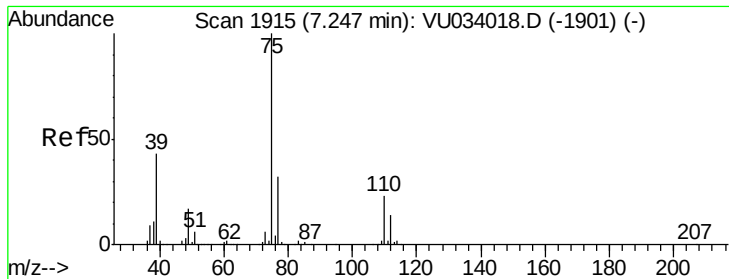
Tgt Ion: 98 Resp: 964851
Ion Ratio Lower Upper
98 100
100 64.8 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 10.782 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034088.D
Acq: 30 Aug 2019 11:15

Tgt Ion: 43 Resp: 89335
Ion Ratio Lower Upper
43 100
58 6.6 32.2 48.4#



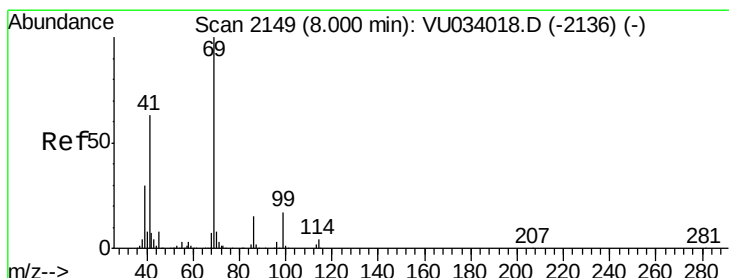
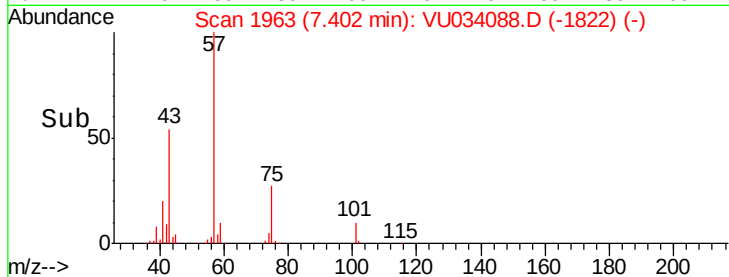
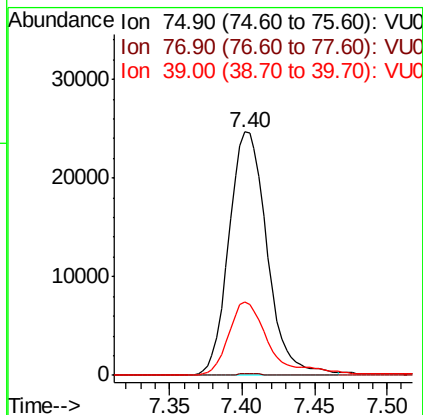
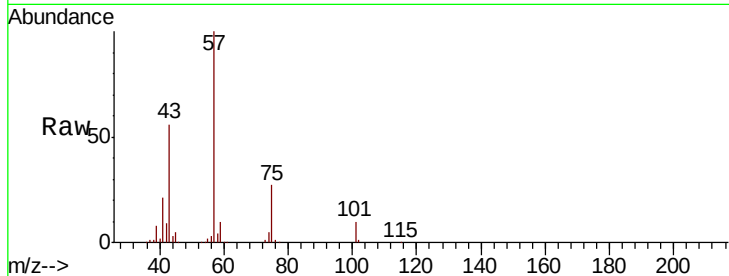


#54

cis-1,3-Dichloropropene
 Concen: 5.035 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_U
 ClientSampleId :
 PB122672TB

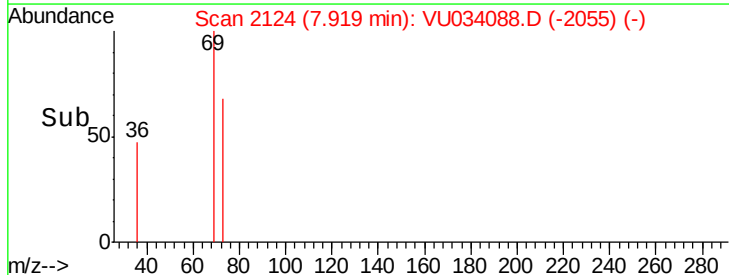
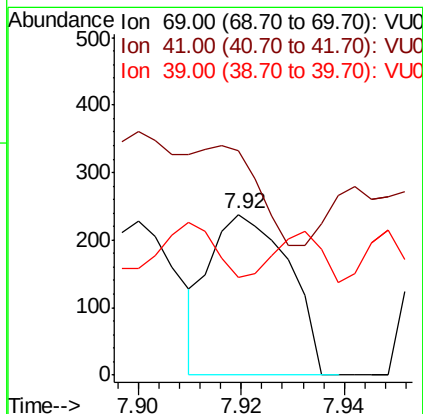
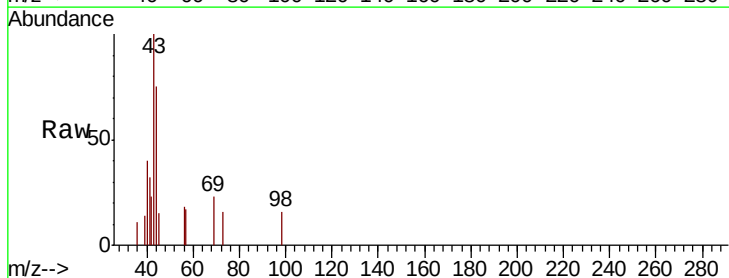
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.2	37.8#
39	30.1	34.6	51.8#

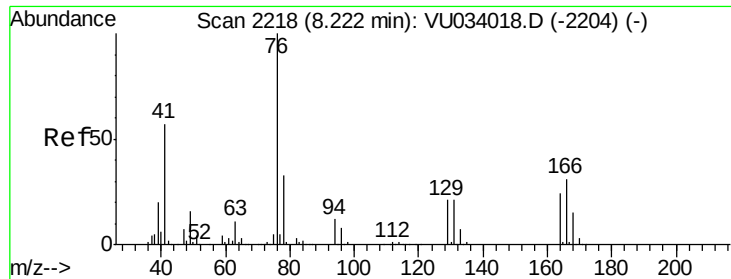


#56

Ethyl methacrylate
 Concen: 0.998 ug/l
 RT: 7.92 min Scan# 2124
 Delta R.T. -0.08 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

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

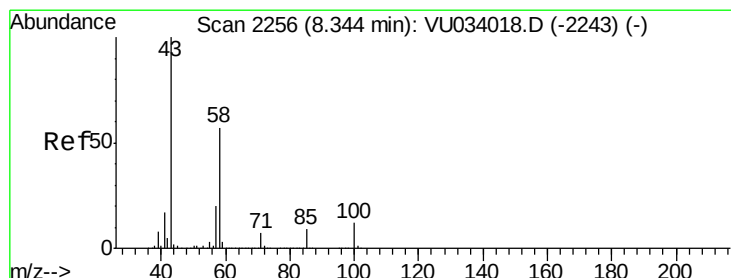
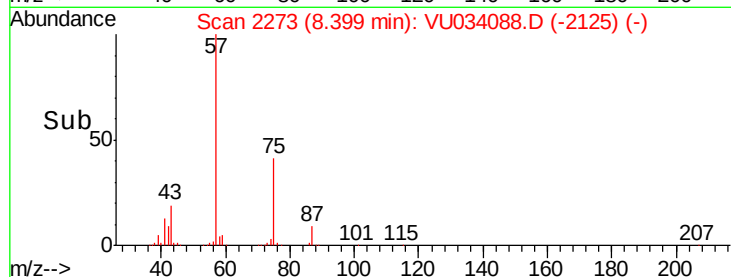
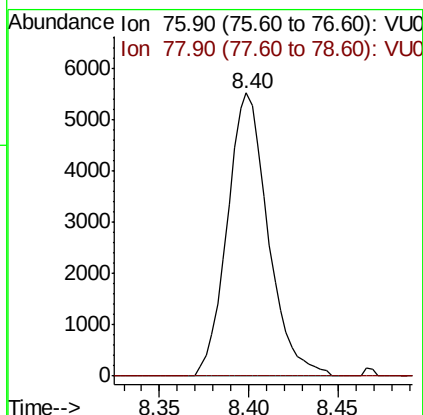
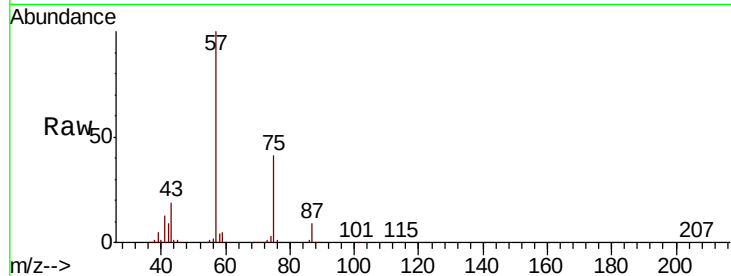




#57
 1,3-Dichloropropane
 Concen: 0.929 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

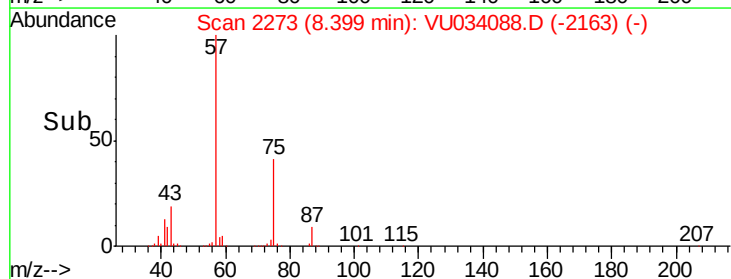
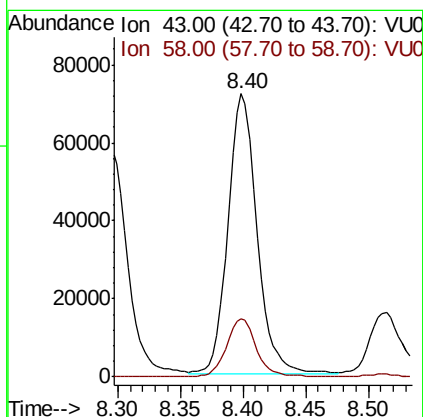
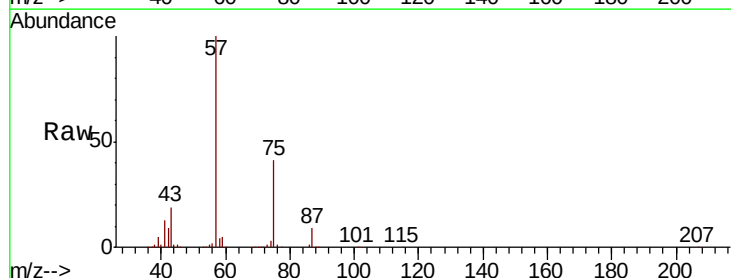
Instrument :
 MSVOA_U
 ClientSampleId :
 PB122672TB

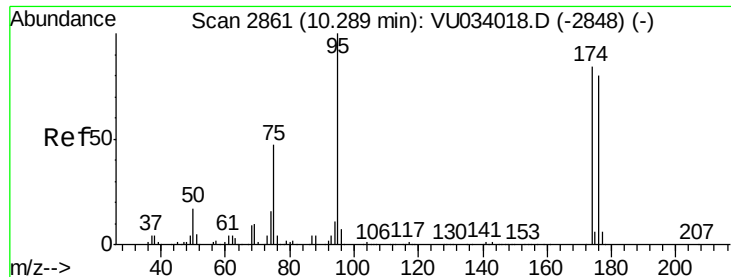
Tgt Ion: 76 Resp: 8758
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 18.493 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034088.D
 Acq: 30 Aug 2019 11:15

Tgt Ion: 43 Resp: 115669
 Ion Ratio Lower Upper
 43 100
 58 21.4 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 43.891 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampled :

PB122672TB

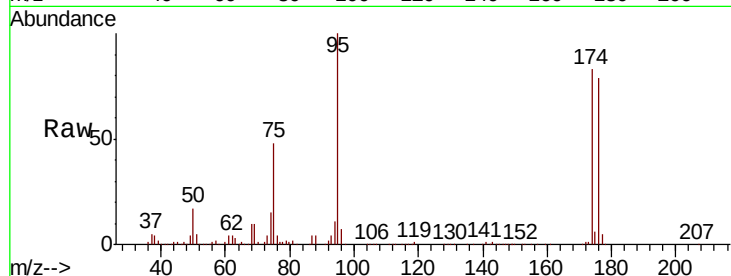
Tgt Ion: 95 Resp: 330120

Ion Ratio Lower Upper

95 100

174 84.6 0.0 168.8

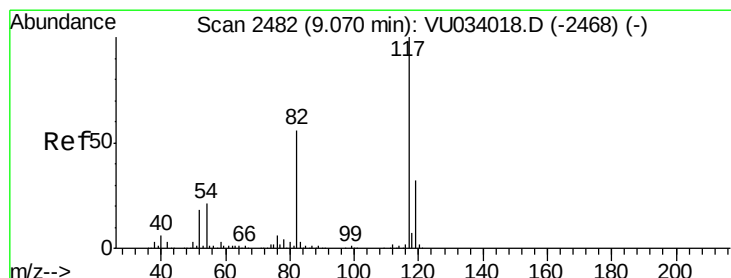
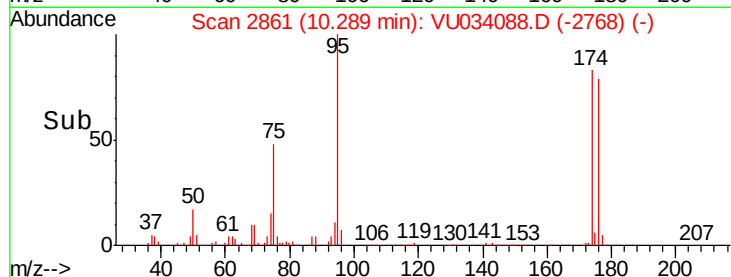
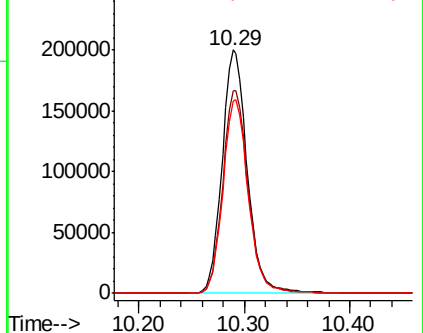
176 80.1 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

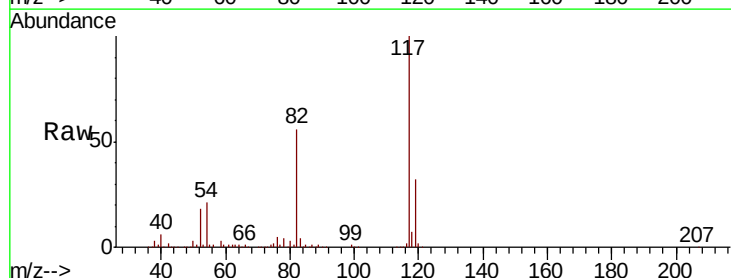
Tgt Ion: 117 Resp: 734157

Ion Ratio Lower Upper

117 100

82 56.5 45.1 67.7

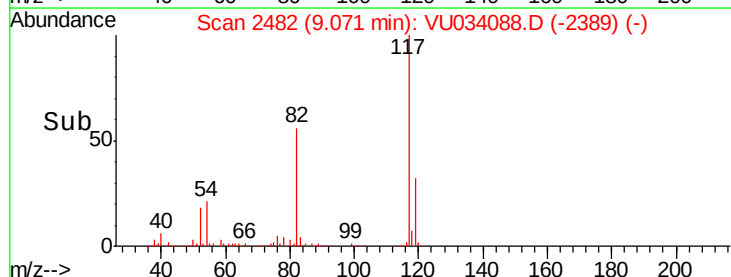
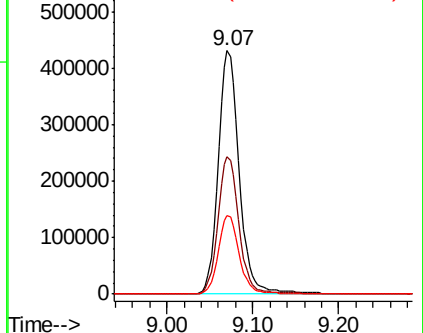
119 32.3 25.4 38.0

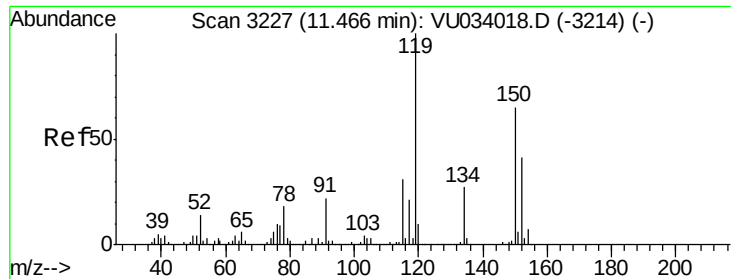


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

PB122672TB

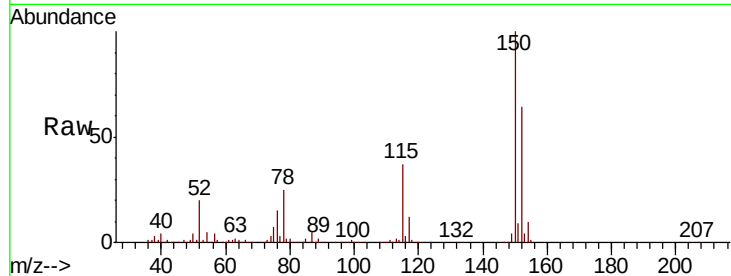
Tgt Ion:152 Resp: 341955

Ion Ratio Lower Upper

152 100

115 57.4 41.1 123.3

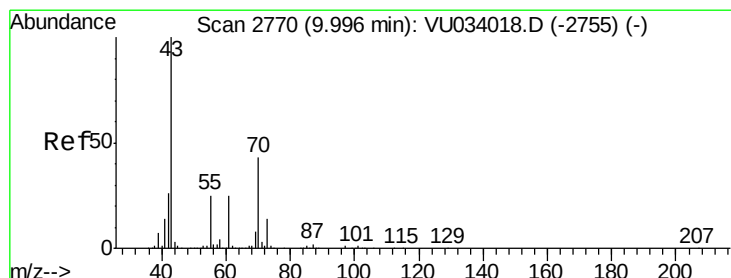
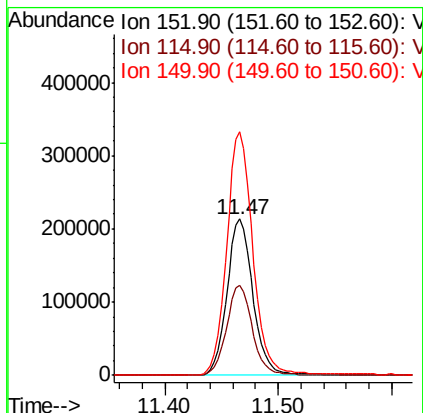
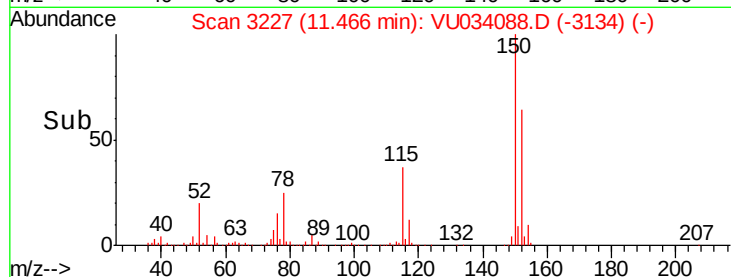
150 157.3 0.0 348.8



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



#74

N-ethyl acetate

Concen: 0.301 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Tgt Ion: 43 Resp: 2905

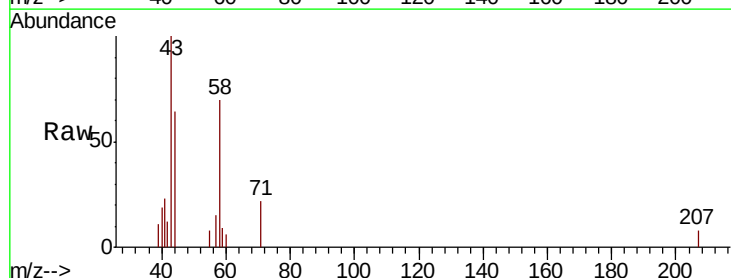
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 4.8 20.5 30.7#

61 0.0 20.0 30.0#

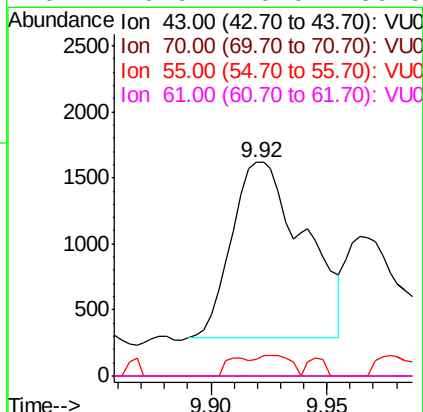
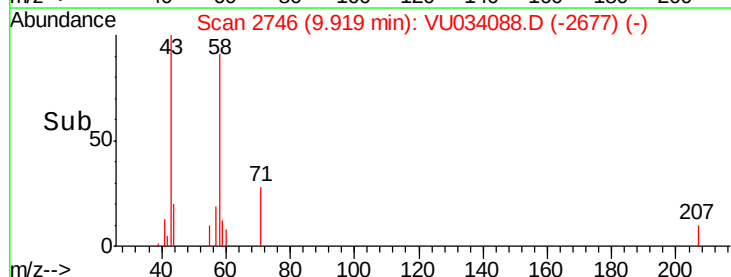


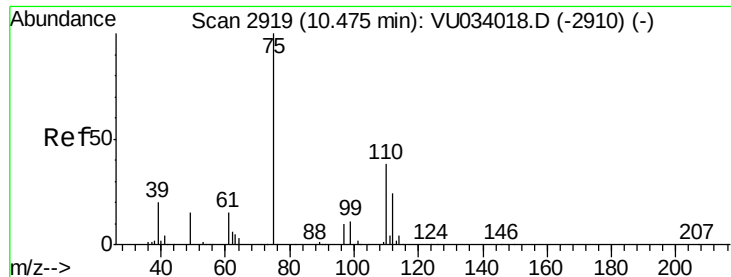
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 20.720 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

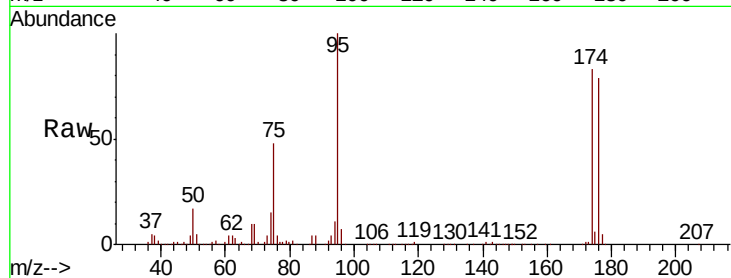
PB122672TB

Tgt Ion: 75 Resp: 159687

Ion Ratio Lower Upper

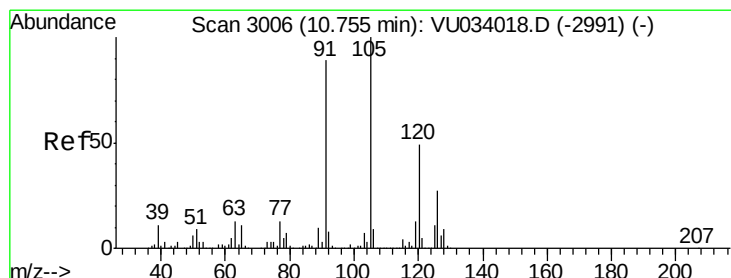
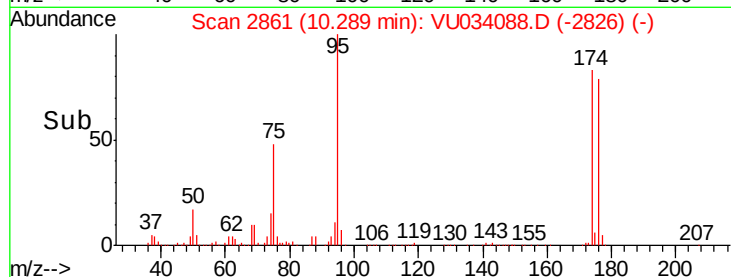
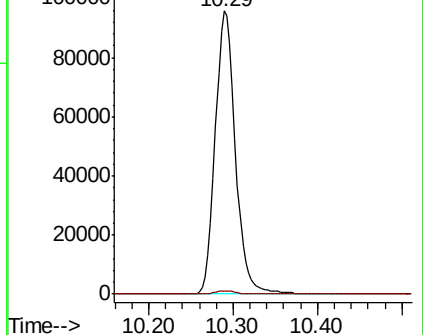
75 100

77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU034018.D (-2910) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.639 ug/l

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU034088.D

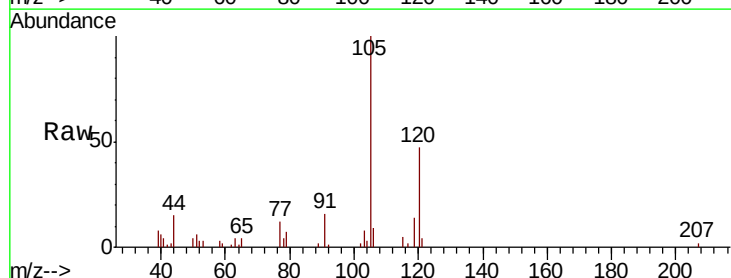
Acq: 30 Aug 2019 11:15

Tgt Ion: 105 Resp: 12438

Ion Ratio Lower Upper

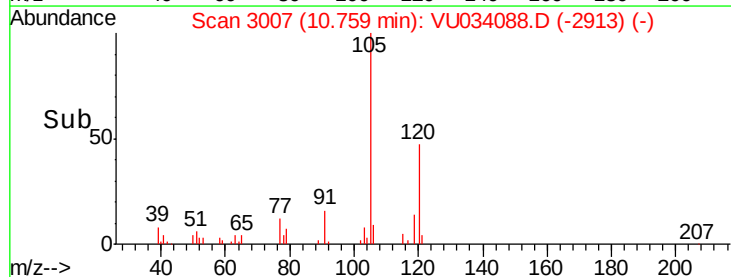
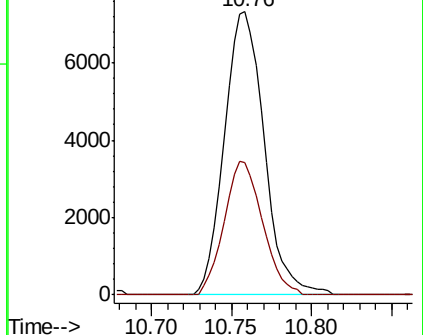
105 100

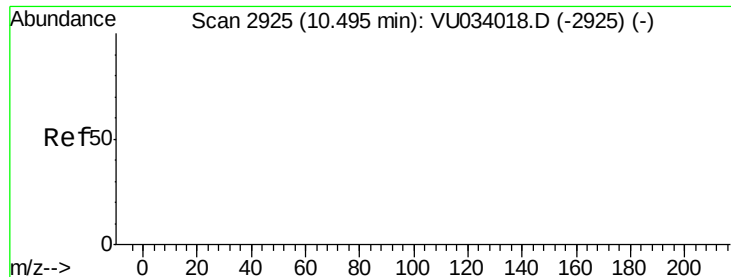
120 45.4 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VU034018.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU034018.D (-2991) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 69.768 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

PB122672TB

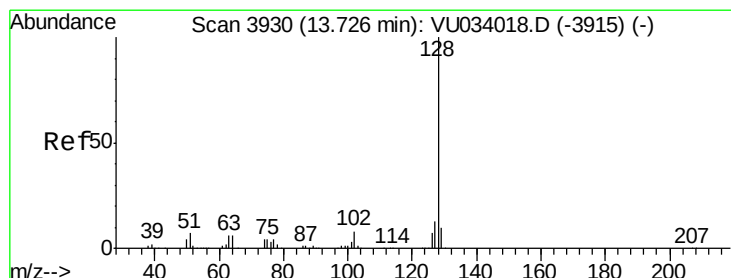
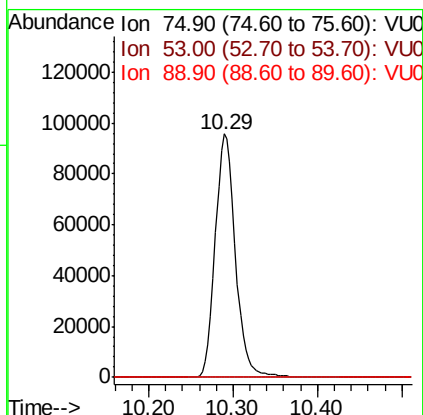
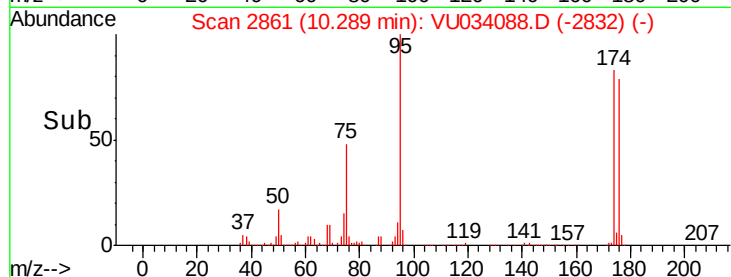
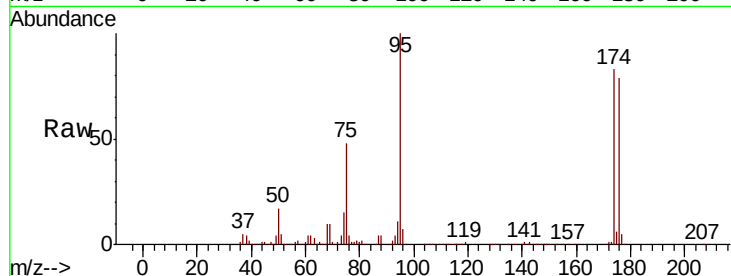
Tgt Ion: 75 Resp: 159687

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 1.795 ug/l

RT: 13.80 min Scan# 3954

Delta R.T. 0.08 min

Lab File: VU034088.D

Acq: 30 Aug 2019 11:15

Tgt Ion: 128 Resp: 116

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

