

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034033.D
 Acq On : 28 Aug 2019 19:15
 Operator : JC/SP
 Sample : K4555-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TW-10

Quant Time: Aug 29 04:18:54 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	473645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	760136	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	702067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	347589	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	293505	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
35) Dibromofluoromethane	4.86	113	240780	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	
50) Toluene-d8	7.55	98	936269	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
62) 4-Bromofluorobenzene	10.29	95	327629	42.66	ug/l	0.00
Spiked Amount			Recovery	=	85.32%	

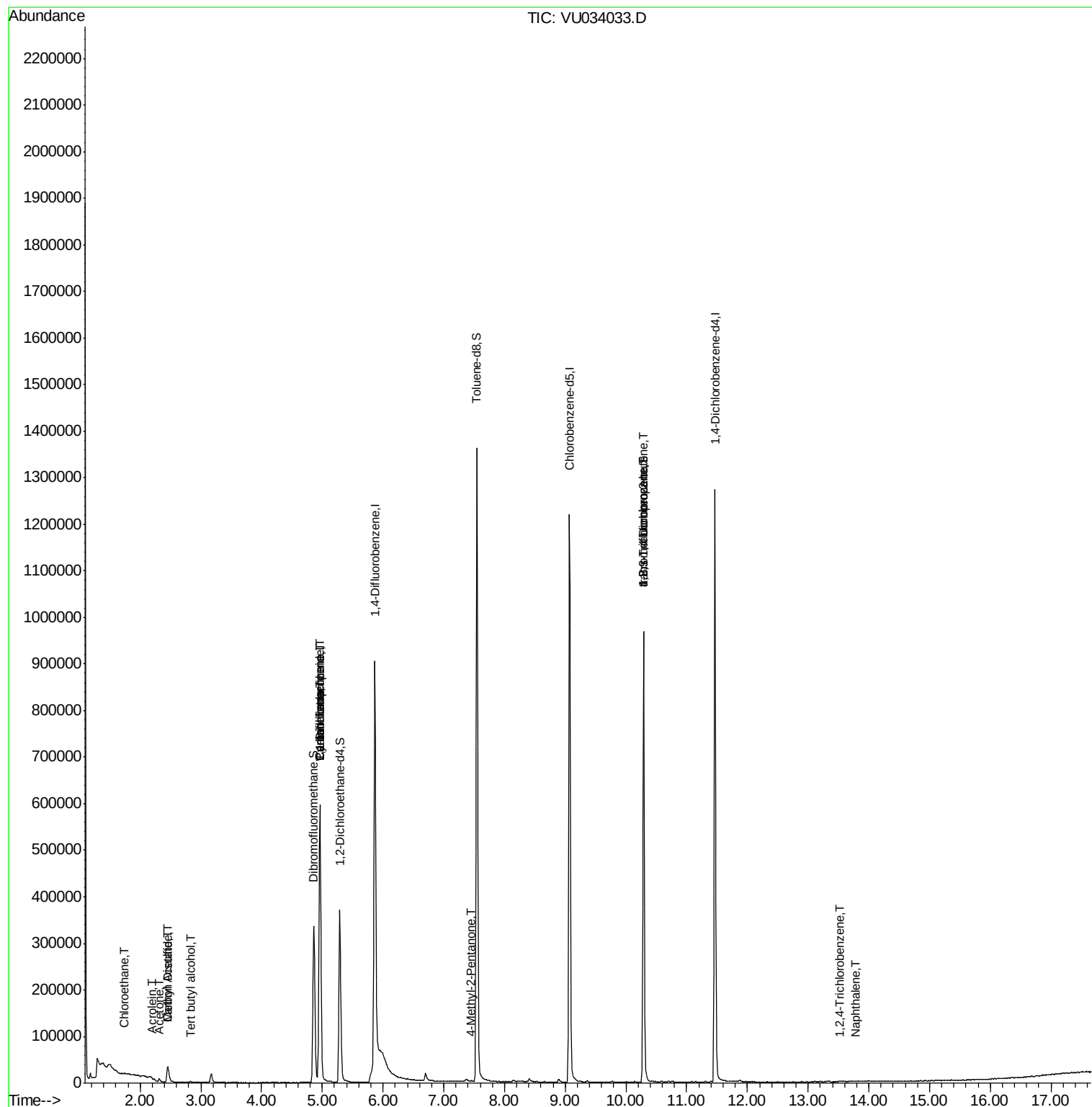
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2055	Below Cal		94
5) Bromomethane	1.57	94	19	Below Cal	#	2
6) Chloroethane	1.74	64	1235	0.319	ug/l #	43
11) Tert butyl alcohol	2.83	59	1922	1.373	ug/l #	79
13) Acrolein	2.20	56	306	0.520	ug/l #	31
16) Acetone	2.32	43	7214	2.330	ug/l	97
17) Carbon Disulfide	2.47	76	3265	0.218	ug/l	96
18) Methyl Acetate	2.46	43	10617	1.327	ug/l #	51
31) Cyclohexane	4.96	56	8771	0.968	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34409	4.786	ug/l #	49
38) Carbon Tetrachloride	4.96	117	44034	6.345	ug/l #	16
51) 4-Methyl-2-Pentanone	7.45	43	1755	0.207	ug/l	98
76) 1,2,3-Trichloropropane	10.29	75	157583	20.115	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	157583	67.733	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	755	1.211	ug/l #	50
95) Naphthalene	13.77	128	1527	1.858	ug/l #	84

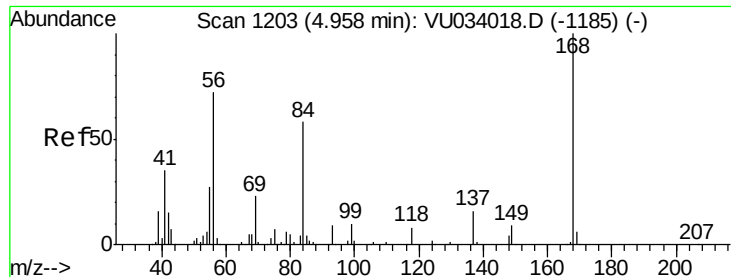
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034033.D

Acq: 28 Aug 2019 19:15

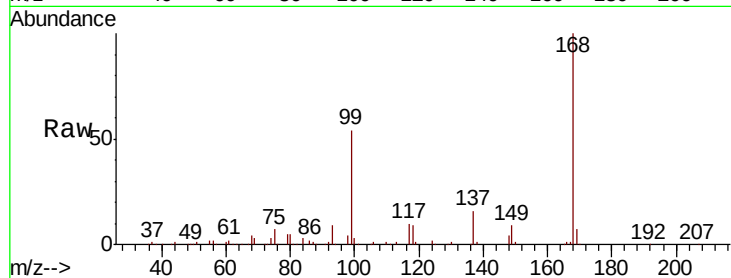
Instrument :
MSVOA_U
ClientSampleId :
TW-10

Tgt Ion: 168 Resp: 473645

Ion Ratio Lower Upper

168 100

99 54.3 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

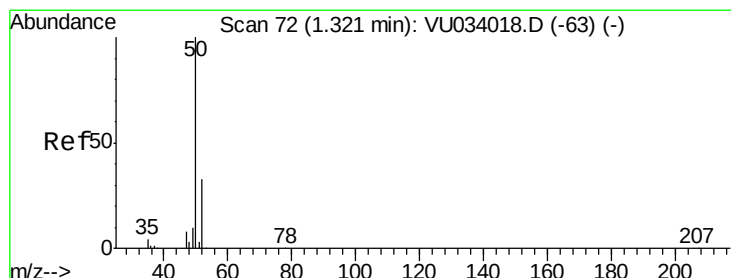
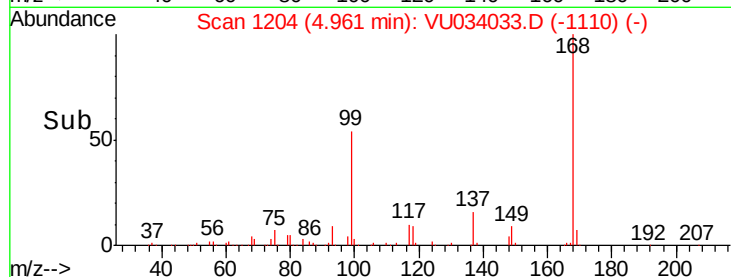
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU034033.D

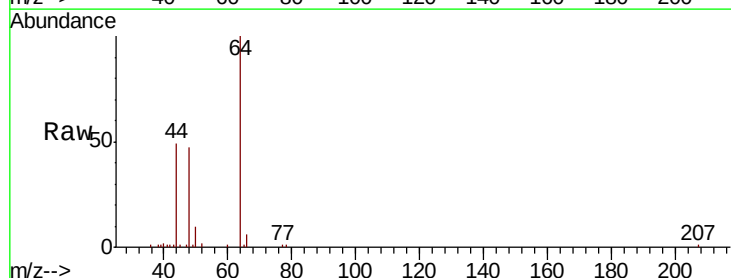
Acq: 28 Aug 2019 19:15

Tgt Ion: 50 Resp: 2055

Ion Ratio Lower Upper

50 100

52 29.3 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

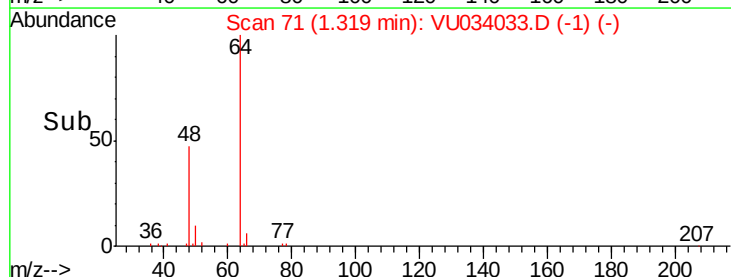
1500

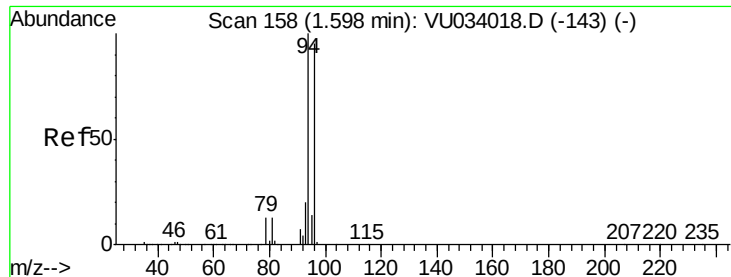
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.57 min Scan# 150

Delta R.T. -0.03 min

Lab File: VU034033.D

Acq: 28 Aug 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

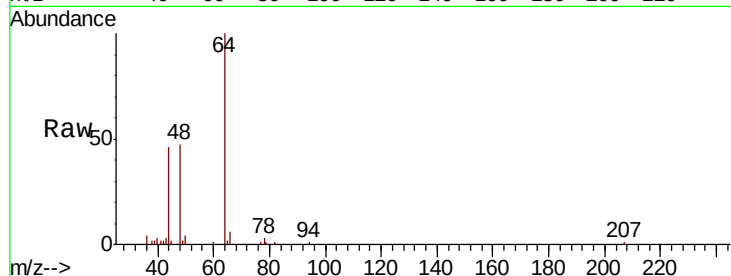
TW-10

Tgt Ion: 94 Resp: 19

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034033.D (-150) (-)

Ion 95.90 (95.60 to 96.60): VU034033.D (-150) (-)

1.57

1.58

1.59

1.60

1.61

1.62

1.63

1.64

1.65

1.66

1.67

1.68

1.69

1.70

1.71

1.72

1.73

1.74

1.75

1.76

1.77

1.78

1.79

1.80

1.81

1.82

1.83

1.84

1.85

1.86

1.87

1.88

1.89

1.90

1.91

1.92

1.93

1.94

1.95

1.96

1.97

1.98

1.99

2.00

2.01

2.02

2.03

2.04

2.05

2.06

2.07

2.08

2.09

2.10

2.11

2.12

2.13

2.14

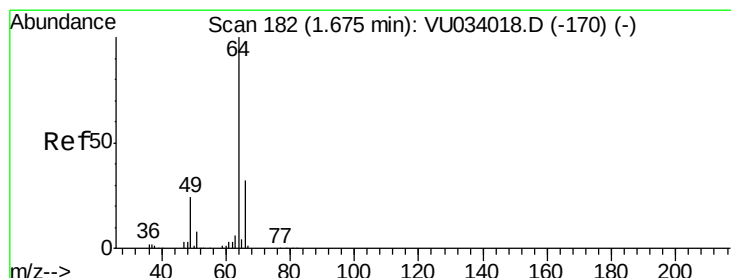
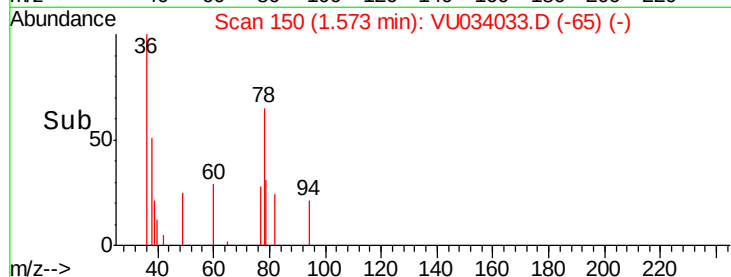
2.15

2.16

2.17

2.18

2.19



#6

Chloroethane

Concen: 0.319 ug/l

RT: 1.74 min Scan# 203

Delta R.T. 0.07 min

Lab File: VU034033.D

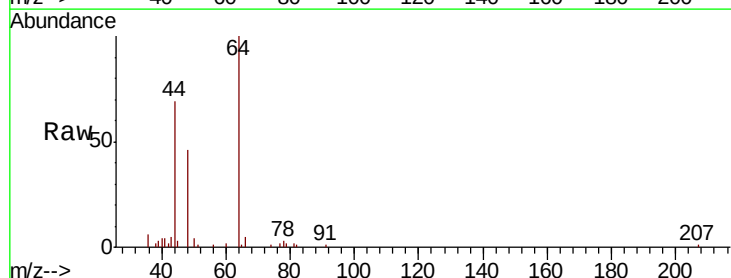
Acq: 28 Aug 2019 19:15

Tgt Ion: 64 Resp: 1235

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU034033.D (-182) (-)

Ion 65.90 (65.60 to 66.60): VU034033.D (-182) (-)

1.74

1.75

1.76

1.77

1.78

1.79

1.80

1.81

1.82

1.83

1.84

1.85

1.86

1.87

1.88

1.89

1.90

1.91

1.92

1.93

1.94

1.95

1.96

1.97

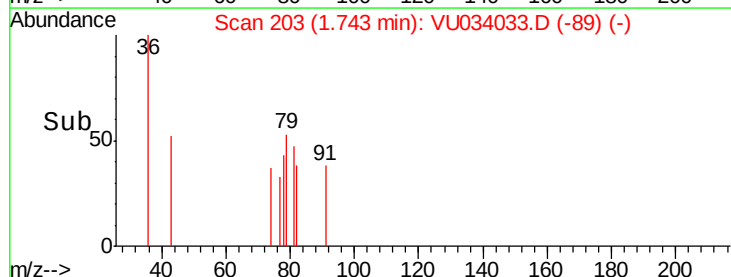
1.98

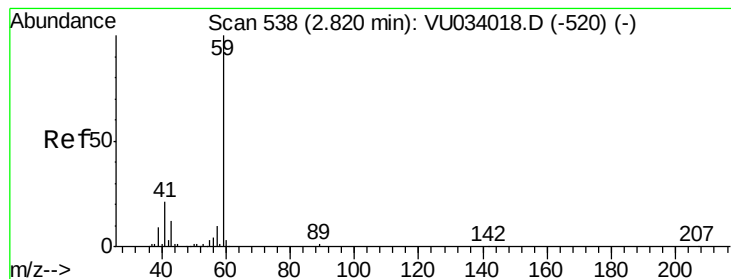
1.99

2.00

2.01

2.02



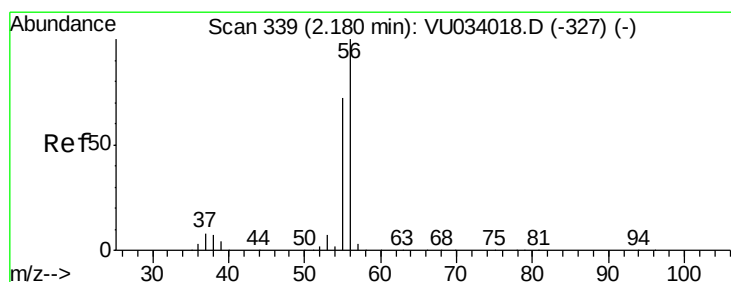
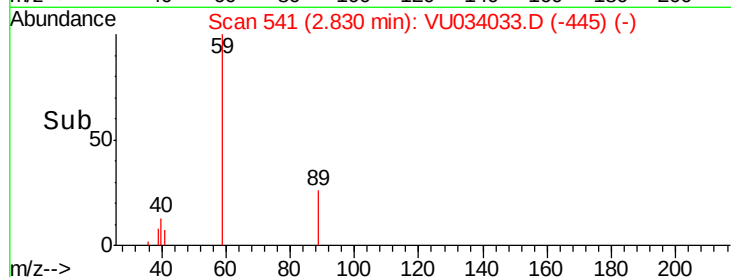
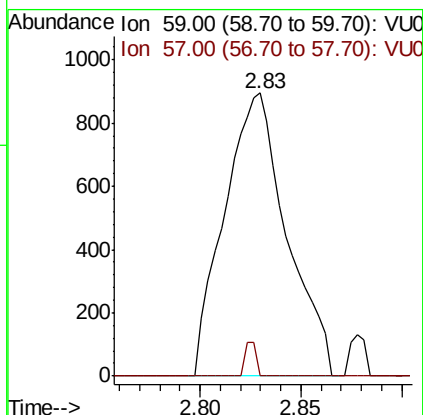
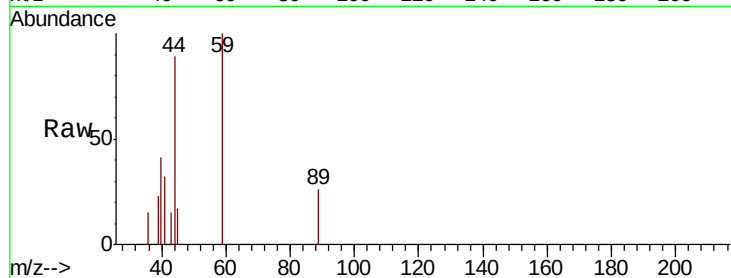


#11

Tert butyl alcohol
 Concen: 1.373 ug/l
 RT: 2.83 min Scan# 541
 Delta R.T. 0.01 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Instrument :
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 ClientSampleId :
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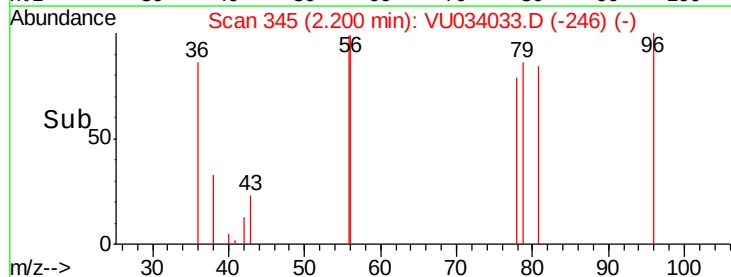
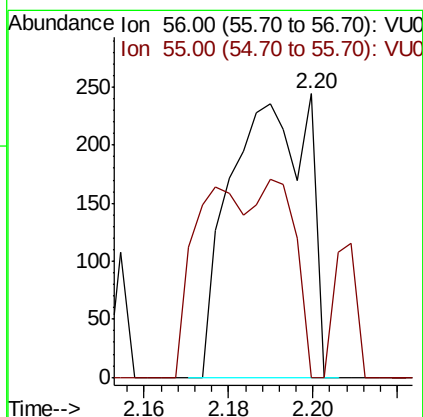
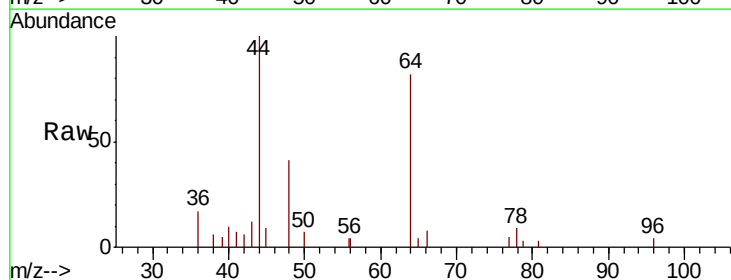
Tgt Ion: 59 Resp: 1922
 Ion Ratio Lower Upper
 59 100
 57 2.1 8.0 12.0#

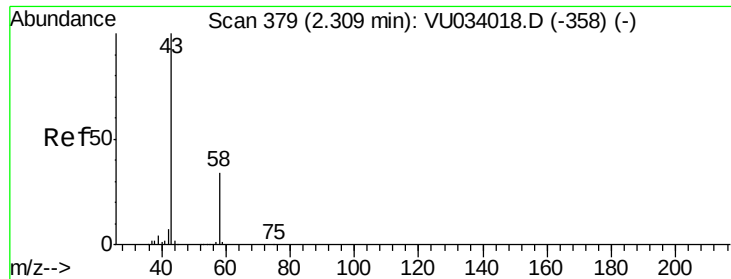


#13

Acrolein
 Concen: 0.520 ug/l
 RT: 2.20 min Scan# 345
 Delta R.T. 0.02 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Tgt Ion: 56 Resp: 306
 Ion Ratio Lower Upper
 56 100
 55 14.1 57.1 85.7#





#16

Acetone

Concen: 2.330 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034033.D

Acq: 28 Aug 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

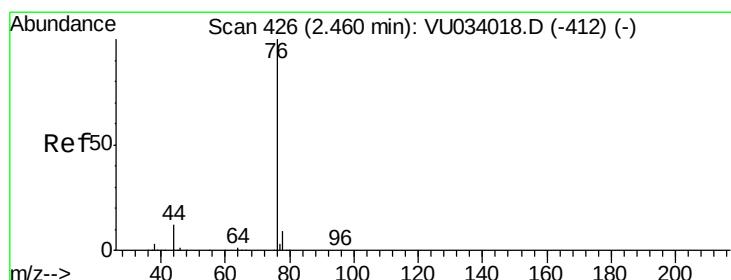
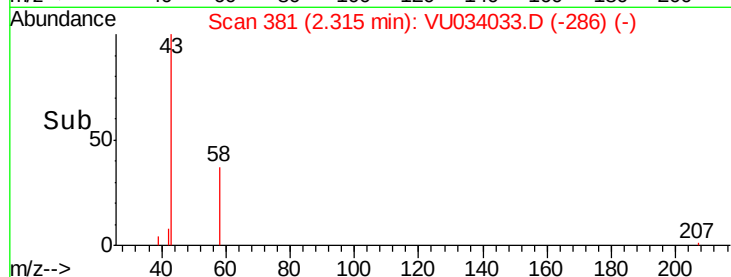
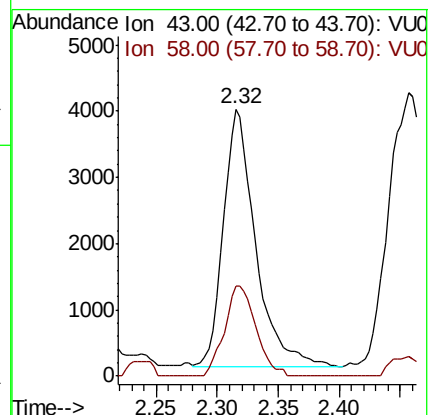
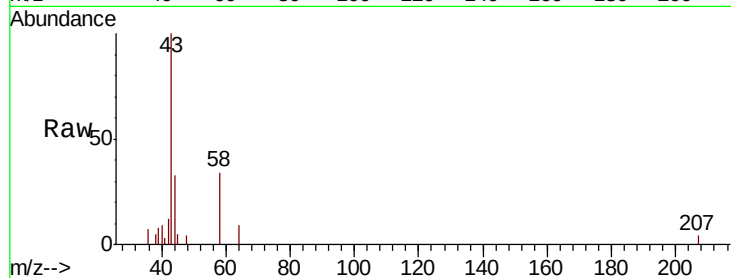
TW-10

Tgt Ion: 43 Resp: 7214

Ion Ratio Lower Upper

43 100

58 35.2 26.8 40.2



#17

Carbon Disulfide

Concen: 0.218 ug/l

RT: 2.47 min Scan# 428

Delta R.T. 0.01 min

Lab File: VU034033.D

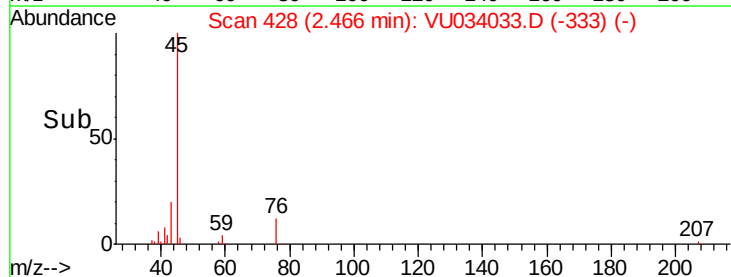
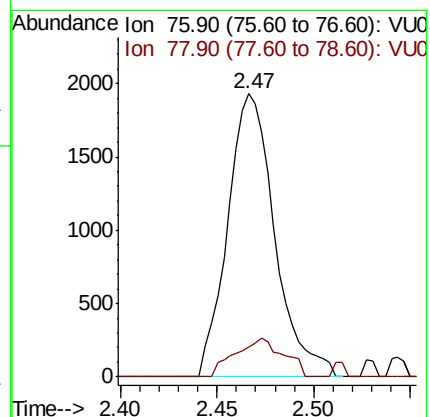
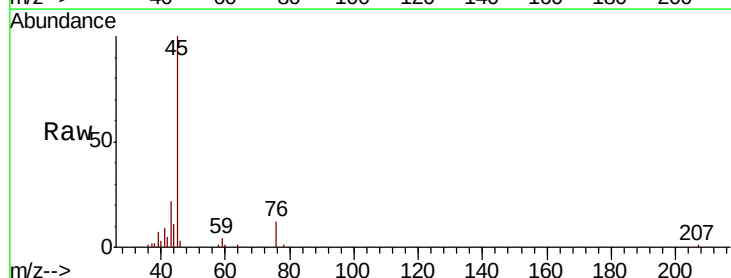
Acq: 28 Aug 2019 19:15

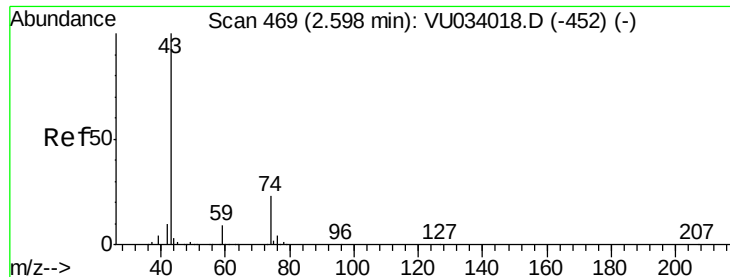
Tgt Ion: 76 Resp: 3265

Ion Ratio Lower Upper

76 100

78 10.5 7.1 10.7

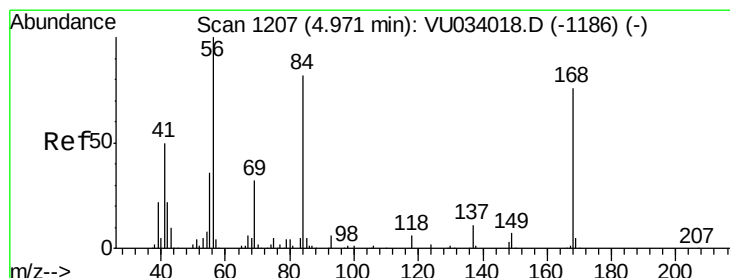
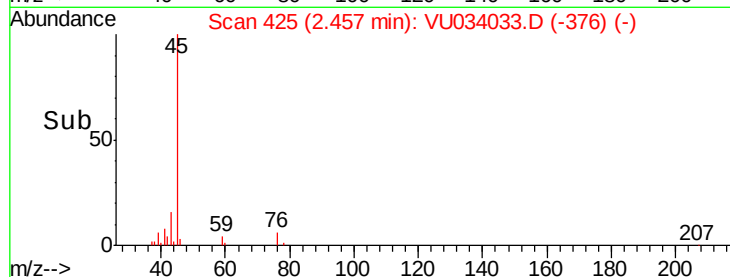
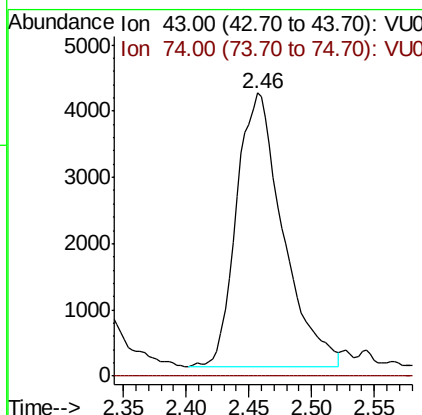
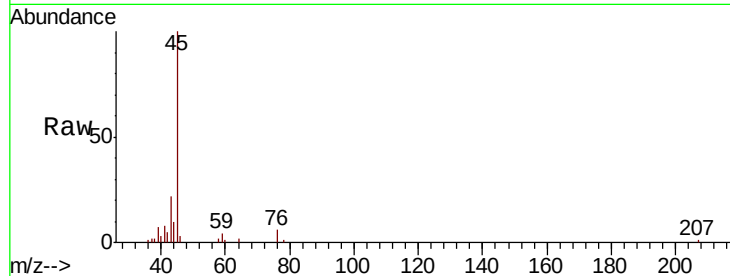




#18
Methyl Acetate
Concen: 1.327 ug/l
RT: 2.46 min Scan# 425
Delta R.T. -0.14 min
Lab File: VU034033.D
Acq: 28 Aug 2019 19:15

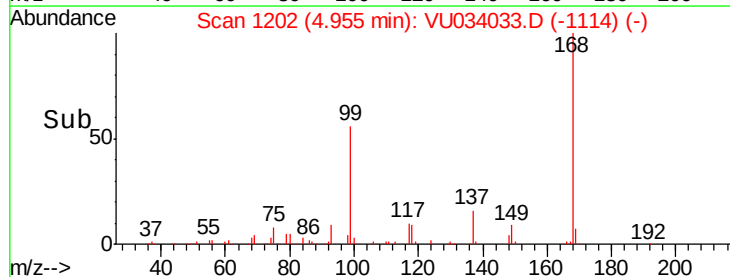
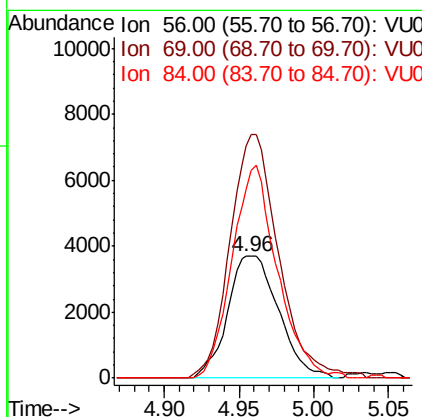
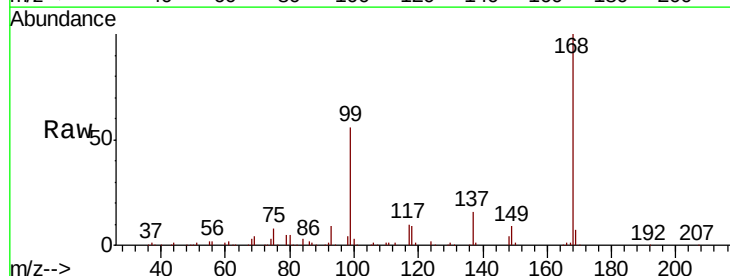
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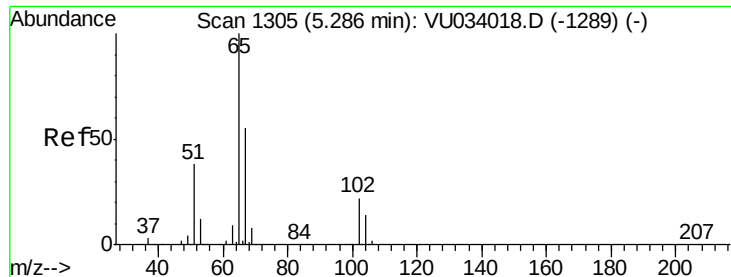
Tgt Ion: 43 Resp: 10617
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#31
Cyclohexane
Concen: 0.968 ug/l
RT: 4.96 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VU034033.D
Acq: 28 Aug 2019 19:15

Tgt Ion: 56 Resp: 8771
Ion Ratio Lower Upper
56 100
69 191.1 25.4 38.0#
84 155.0 65.8 98.8#

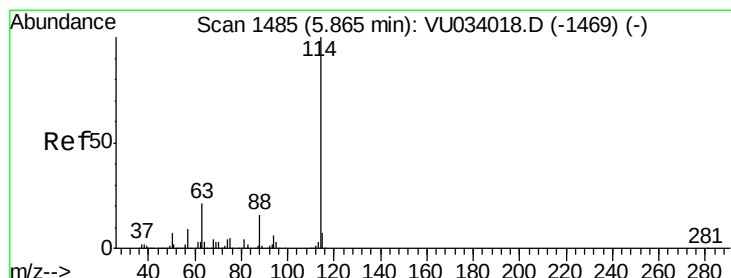
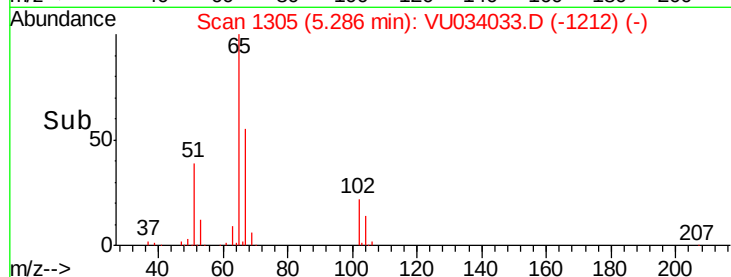
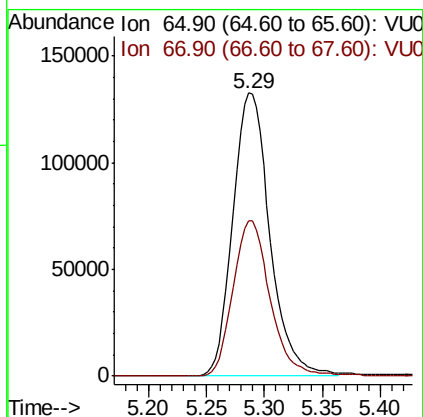
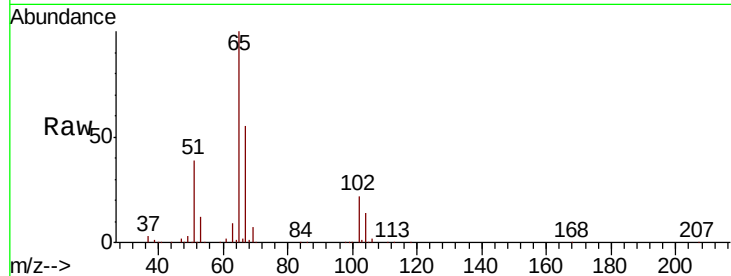




#33
 1,2-Dichloroethane-d4
 Concen: 48.361 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

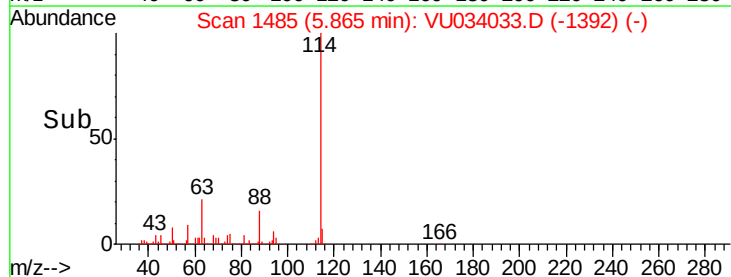
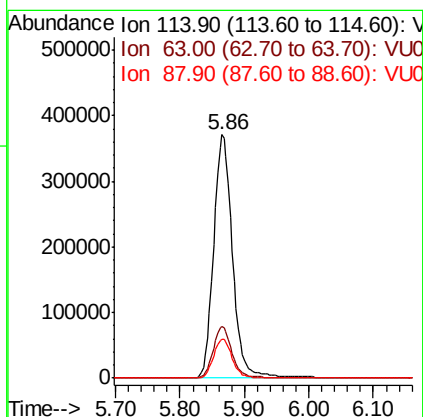
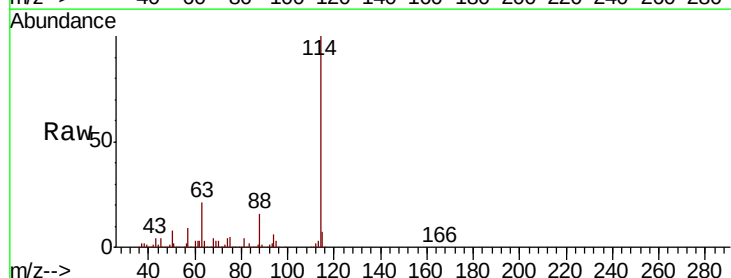
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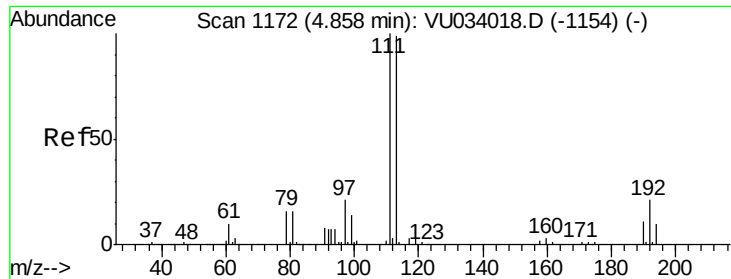
Tgt Ion: 65 Resp: 293505
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Tgt Ion: 114 Resp: 760136
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.0
 88 16.2 0.0 32.0

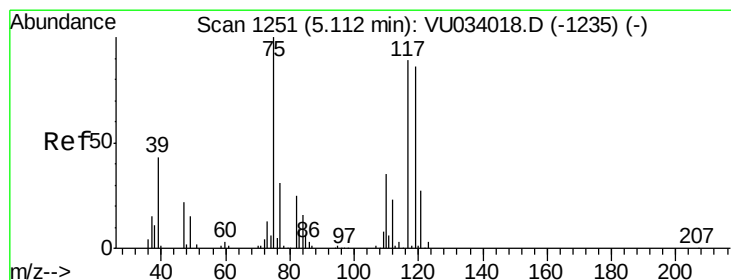
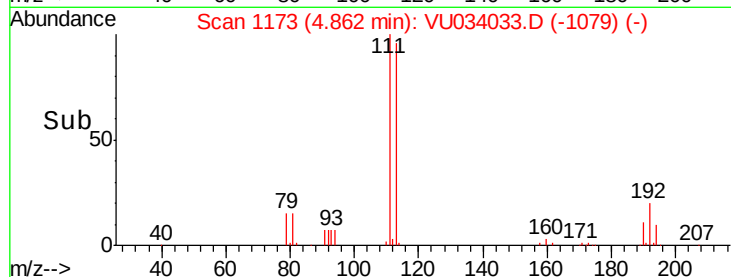
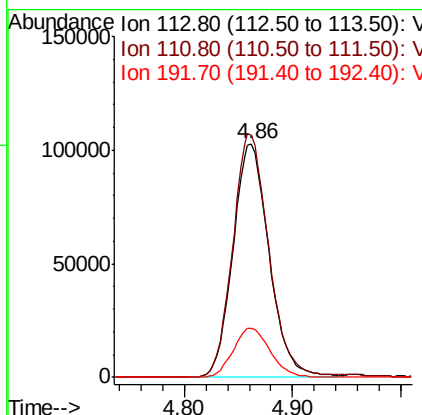
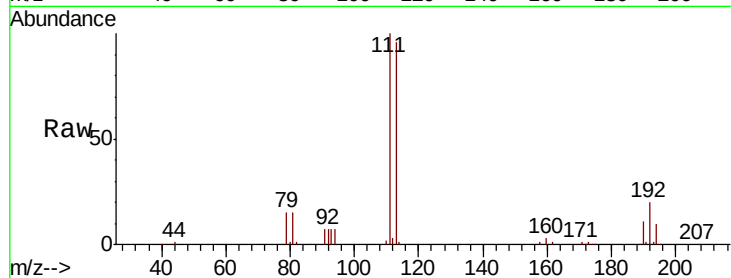




#35
 Dibromofluoromethane
 Concen: 45.669 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

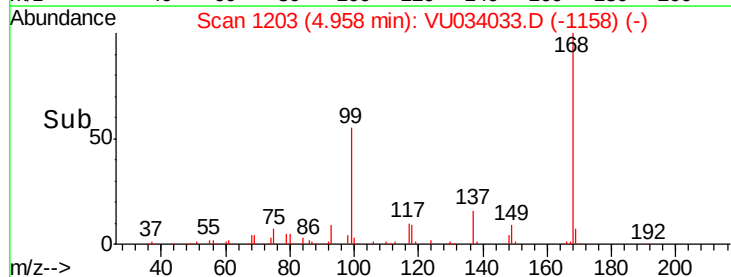
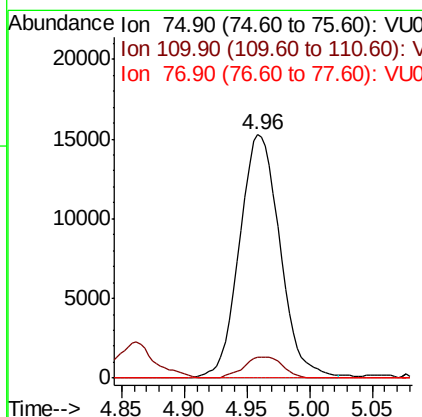
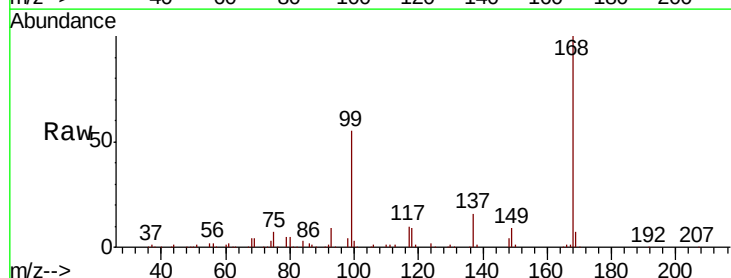
Instrument :
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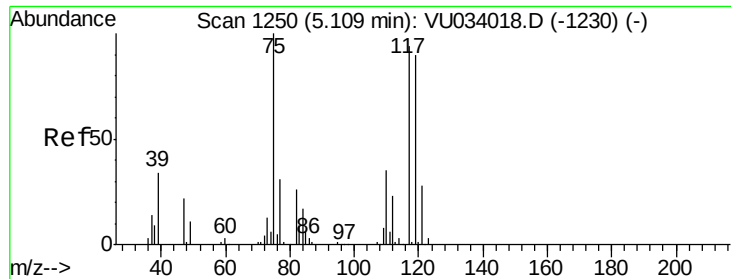
Tgt Ion: 113 Resp: 240780
 Ion Ratio Lower Upper
 113 100
 111 103.6 81.7 122.5
 192 21.5 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.786 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Tgt Ion: 75 Resp: 34409
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.8 53.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.345 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034033.D

Acq: 28 Aug 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

TW-10

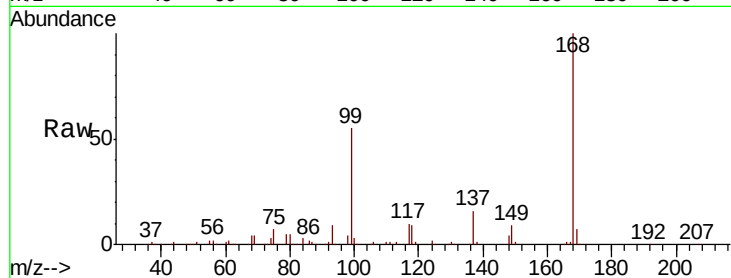
Tgt Ion:117 Resp: 44034

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.4#

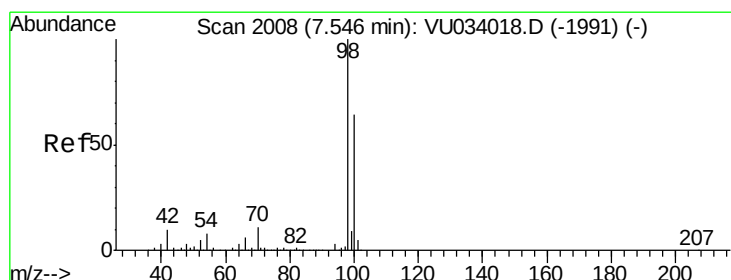
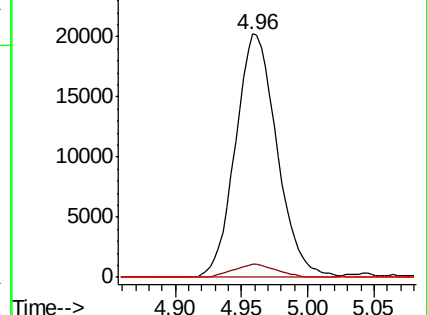
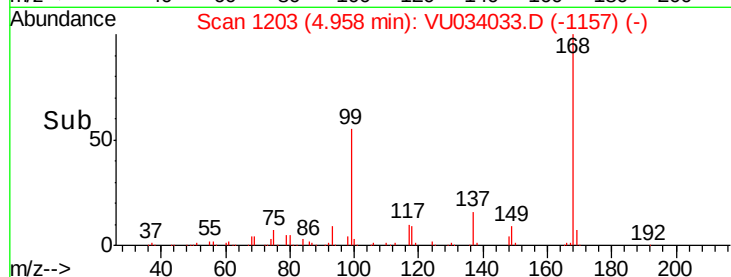
121 0.0 23.9 35.9#



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



#50

Toluene-d8

Concen: 47.427 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034033.D

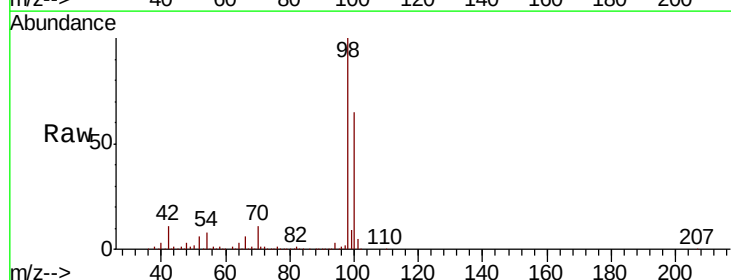
Acq: 28 Aug 2019 19:15

Tgt Ion: 98 Resp: 936269

Ion Ratio Lower Upper

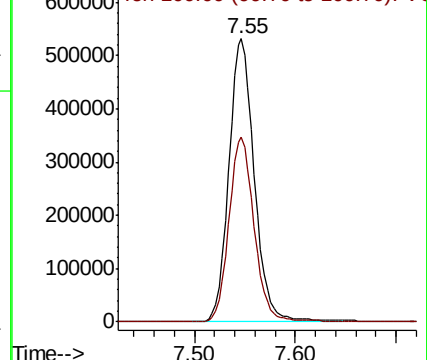
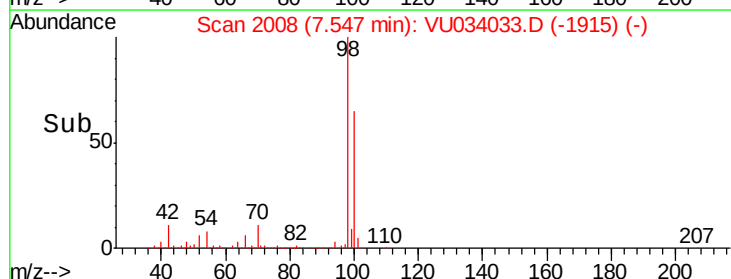
98 100

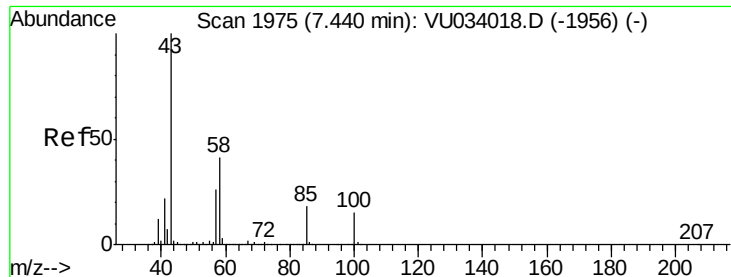
100 65.1 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

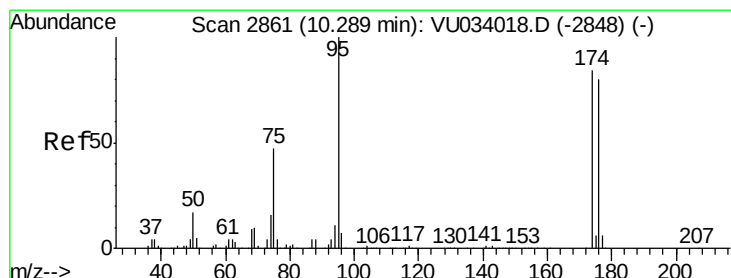
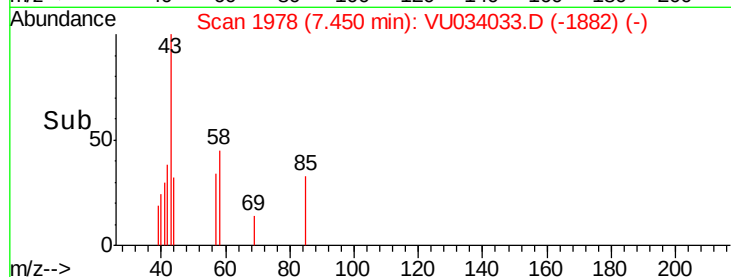
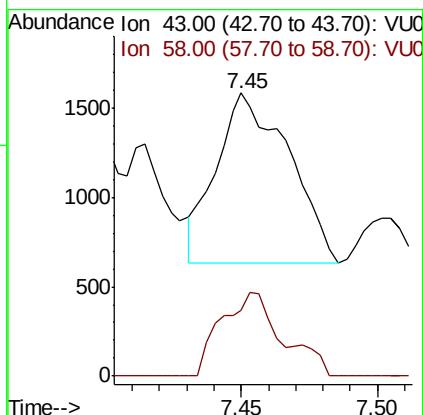
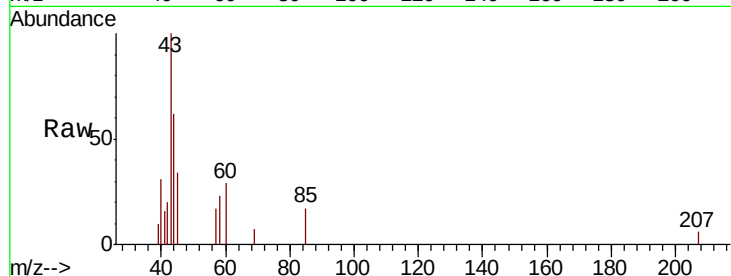




#51
 4-Methyl-2-Pentanone
 Concen: 0.207 ug/l
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

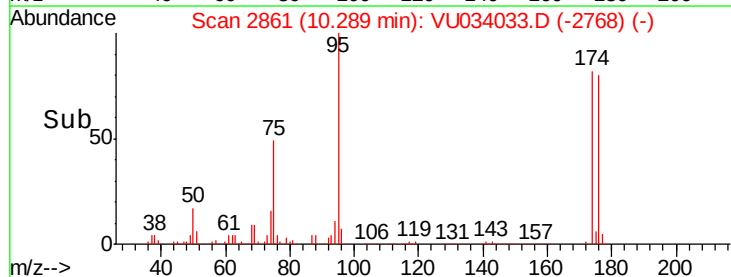
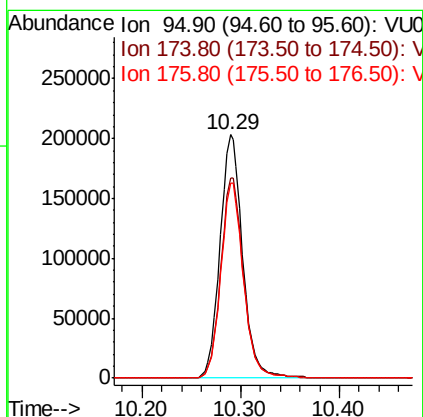
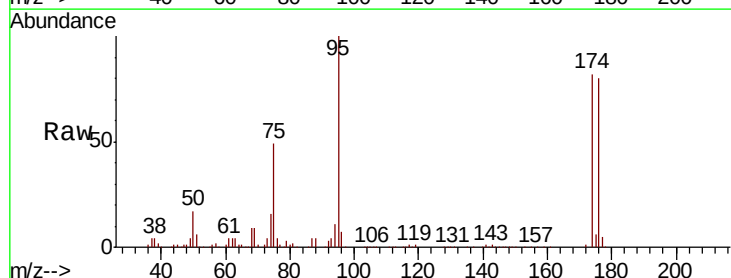
Instrument :
 MSVOA_U
 ClientSampleId :
 TW-10

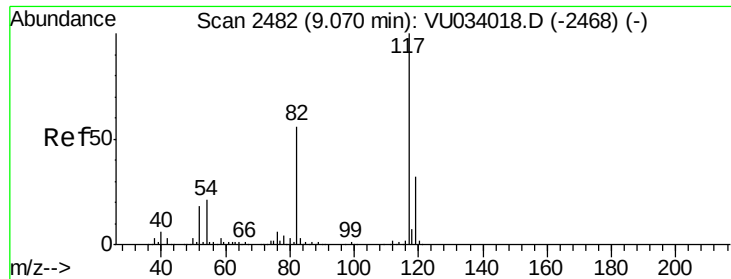
Tgt Ion: 43 Resp: 1755
 Ion Ratio Lower Upper
 43 100
 58 41.5 32.2 48.4



#62
 4-Bromofluorobenzene
 Concen: 42.665 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Tgt Ion: 95 Resp: 327629
 Ion Ratio Lower Upper
 95 100
 174 83.2 0.0 168.8
 176 80.1 0.0 161.8

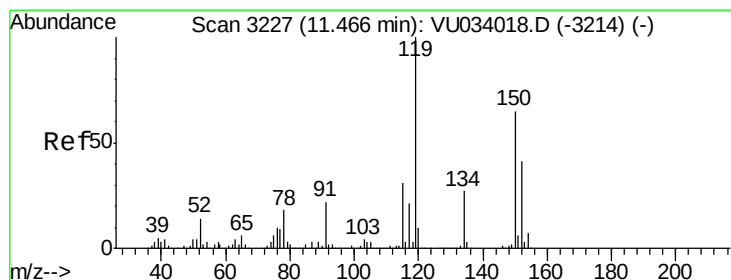
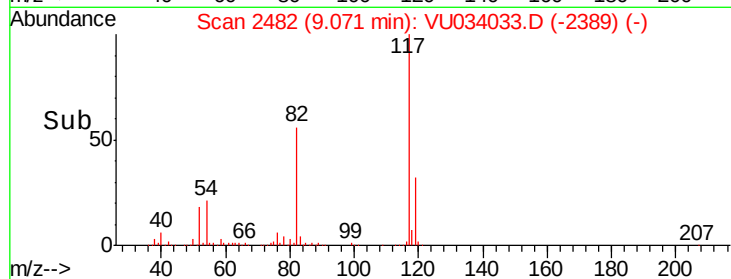
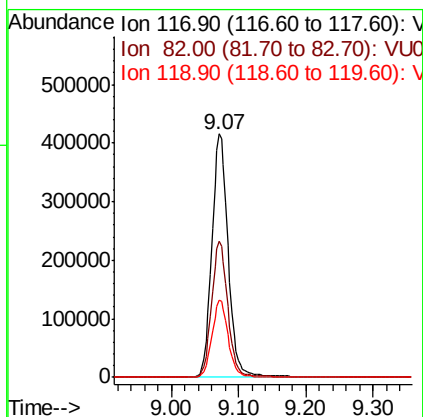
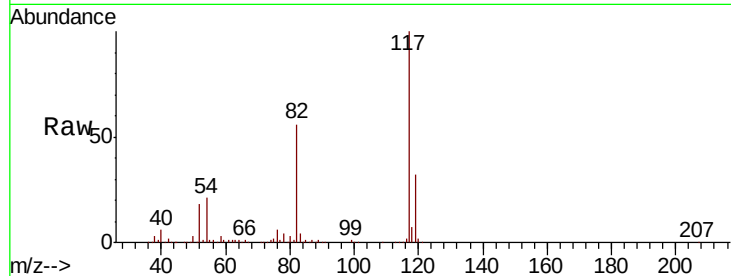




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034033.D
Acq: 28 Aug 2019 19:15

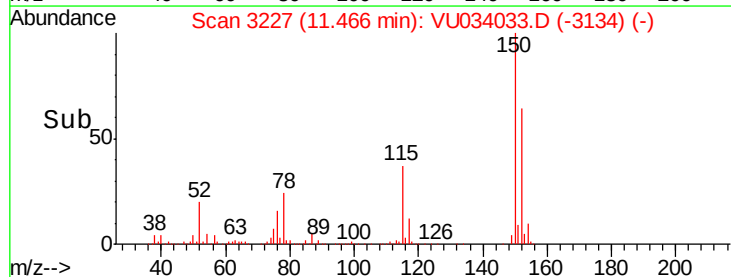
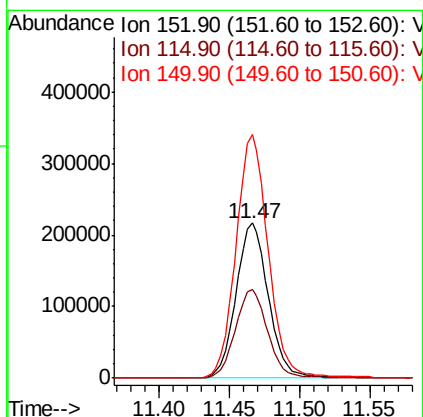
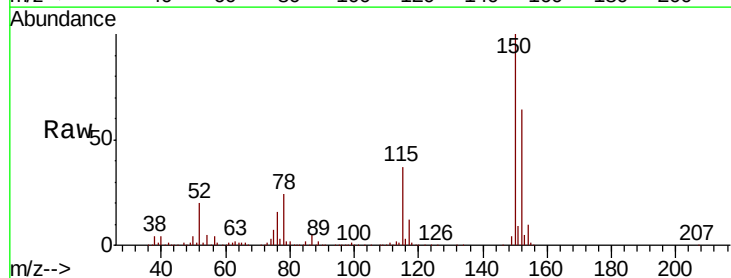
Instrument :
MSVOA_U
ClientSampleId :
TW-10

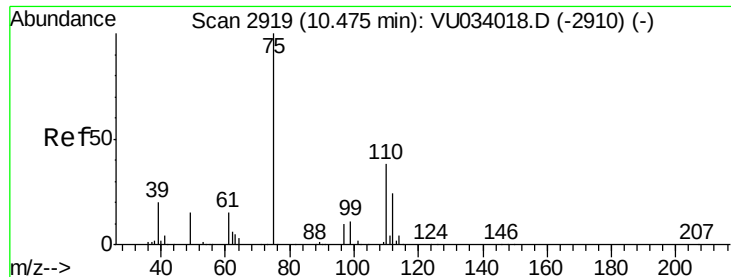
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.1	67.7
119	31.5	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034033.D
Acq: 28 Aug 2019 19:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	41.1	123.3
150	157.6	0.0	348.8





#76

1,2,3-Trichloropropane

Concen: 20.115 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034033.D

Acq: 28 Aug 2019 19:15

Instrument :

MSVOA_U

ClientSampled :

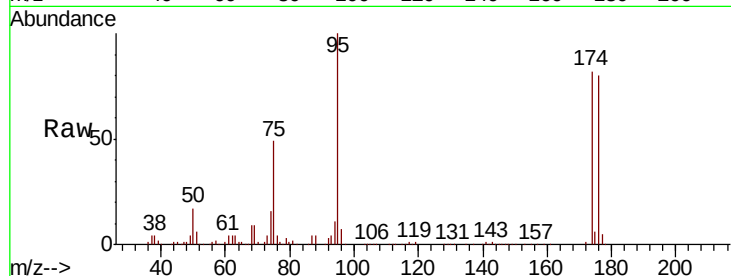
TW-10

Tgt Ion: 75 Resp: 157583

Ion Ratio Lower Upper

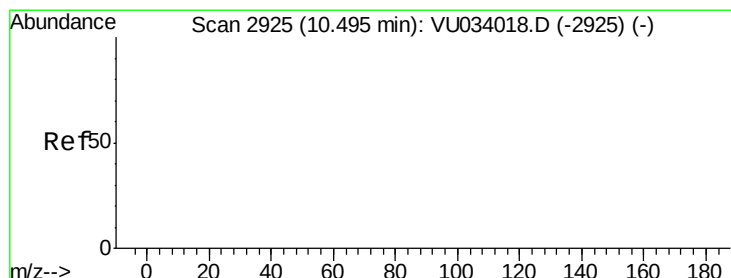
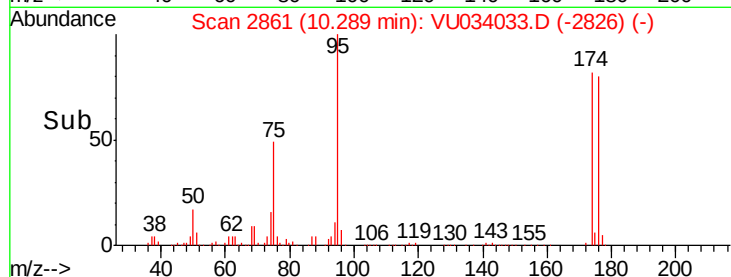
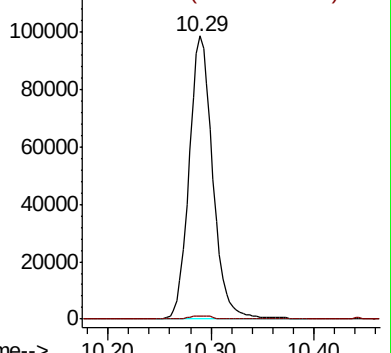
75 100

77 1.3 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: 67.733 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034033.D

Acq: 28 Aug 2019 19:15

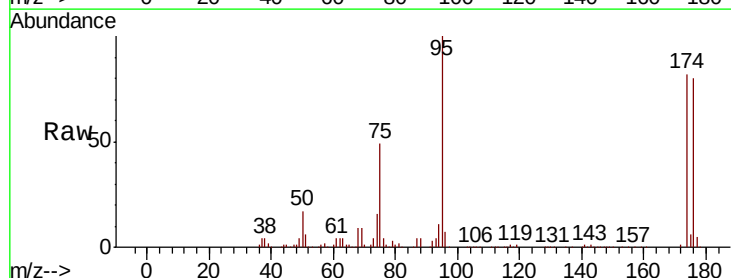
Tgt Ion: 75 Resp: 157583

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

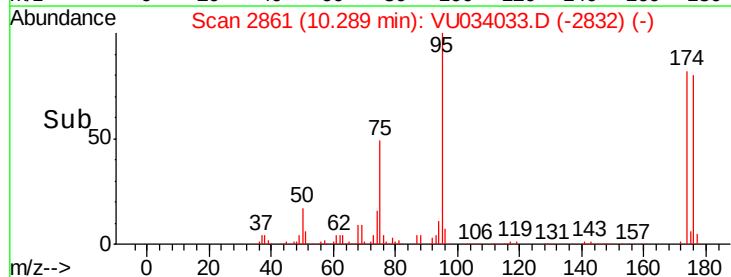
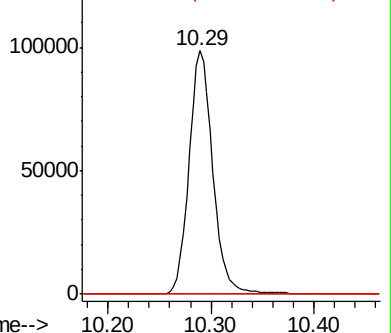
89 0.0 0.0 0.0

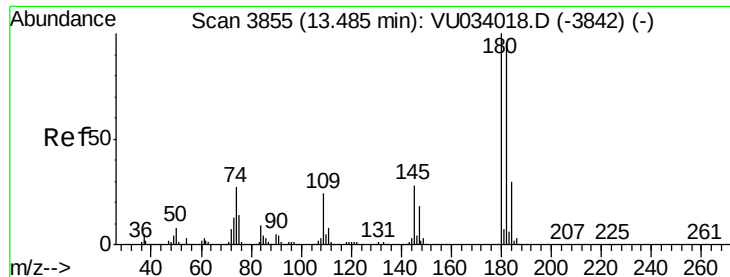


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

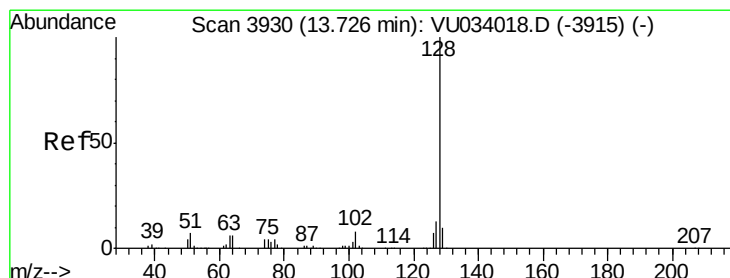
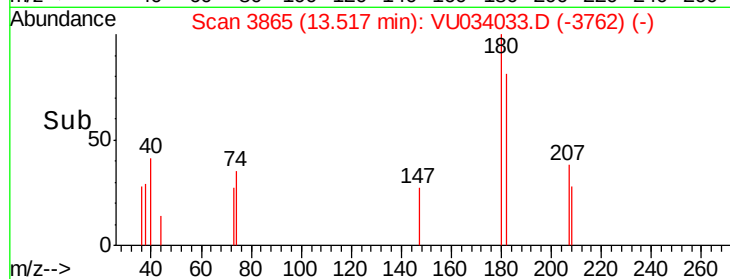
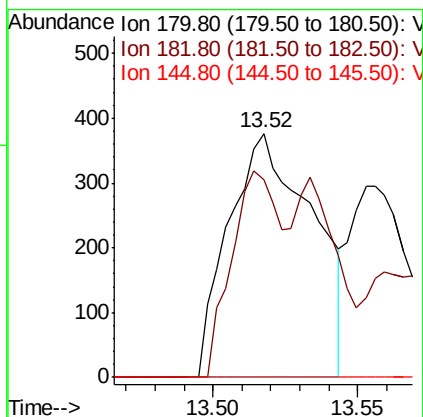
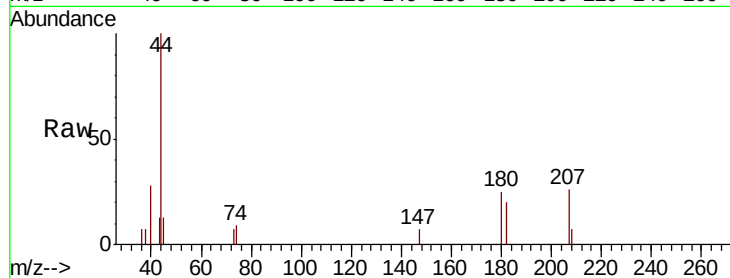




#93
 1,2,4-Trichlorobenzene
 Concen: 1.211 ug/l
 RT: 13.52 min Scan# 3865
 Delta R.T. 0.03 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Instrument :
 MSVOA_U
 ClientSampleId :
 TW-10

Tgt Ion:180 Resp: 755
 Ion Ratio Lower Upper
 180 100
 182 47.5 47.4 142.2
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 1.858 ug/l
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.04 min
 Lab File: VU034033.D
 Acq: 28 Aug 2019 19:15

Tgt Ion:128 Resp: 1527
 Ion Ratio Lower Upper
 128 100
 127 6.7 10.2 15.4#
 129 4.0 8.4 12.6#

