

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
 Data File : VU034110.D
 Acq On : 30 Aug 2019 19:46
 Operator : JC/SP
 Sample : K4529-14
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-T4-(1.9)

Quant Time: Aug 31 03:41:36 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	526651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	841746	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	807754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	417856	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	312407	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
35) Dibromofluoromethane	4.86	113	262629	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	
50) Toluene-d8	7.55	98	1062977	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	10.29	95	394724	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	

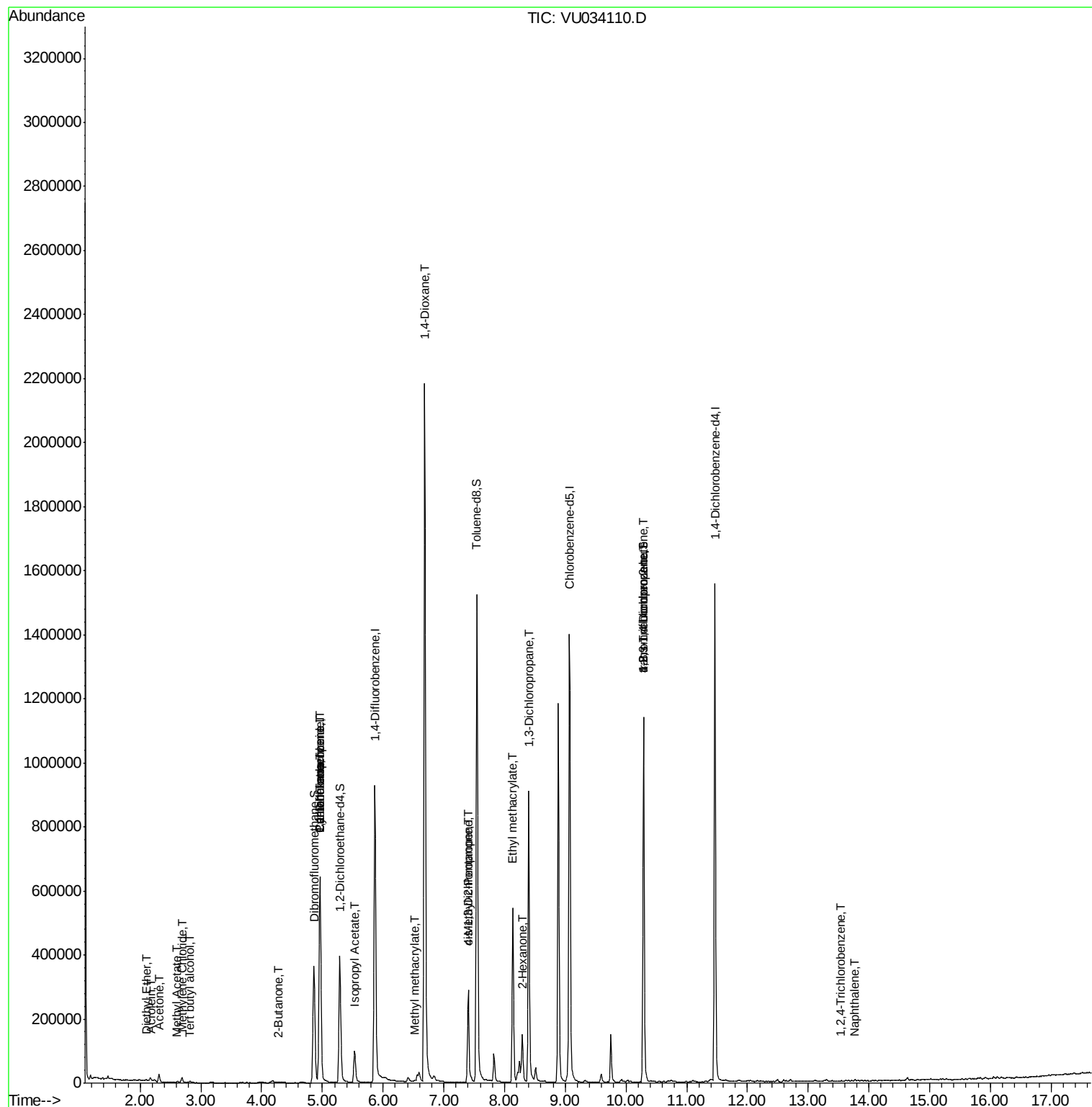
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	730	Below Cal		98
5) Bromomethane	1.63	94	752	Below Cal		93
8) Diethyl Ether	2.10	74	1520	0.435	ug/l	95
11) Tert butyl alcohol	2.82	59	3056	1.964	ug/l #	73
13) Acrolein	2.18	56	249	0.380	ug/l #	54
16) Acetone	2.31	43	26180	7.603	ug/l	100
18) Methyl Acetate	2.61	43	4237	0.476	ug/l	98
20) Methylene Chloride	2.69	84	7336	1.125	ug/l	96
25) 2-Butanone	4.27	43	1796	0.375	ug/l	95
31) Cyclohexane	4.96	56	9183	0.911	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	38417	4.825	ug/l #	48
38) Carbon Tetrachloride	4.96	117	48508	6.312	ug/l #	16
43) Isopropyl Acetate	5.53	43	120016	8.848	ug/l	99
48) Methyl methacrylate	6.52	41	7528	1.150	ug/l #	14
49) 1,4-Dioxane	6.68	88	170	1.037	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	104375	11.142	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	54588	5.388	ug/l #	59
56) Ethyl methacrylate	8.13	69	2007	1.161	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	9273	0.870	ug/l #	42
59) 2-Hexanone	8.30	43	127169	17.983	ug/l #	23
76) 1,2,3-Trichloropropane	10.29	75	187326	19.891	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	187326	66.977	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	40	1.118	ug/l #	12
95) Naphthalene	13.76	128	859	1.822	ug/l #	76

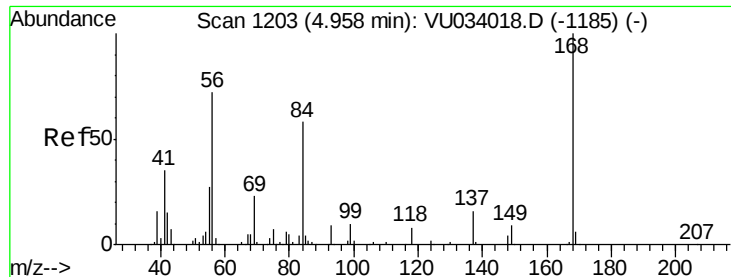
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

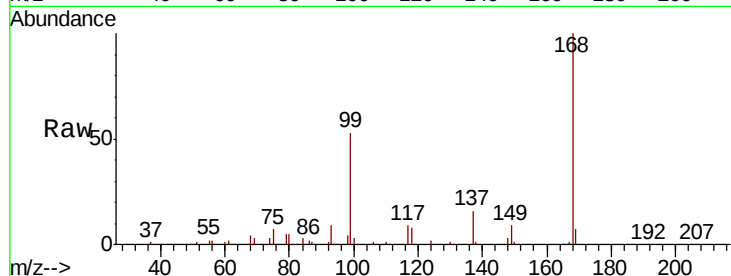
T9-12-13-T4-(1.9)

Tgt Ion:168 Resp: 526651

Ion Ratio Lower Upper

168 100

99 53.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034110.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034110.D (-1185) (-)

4.96

250000

200000

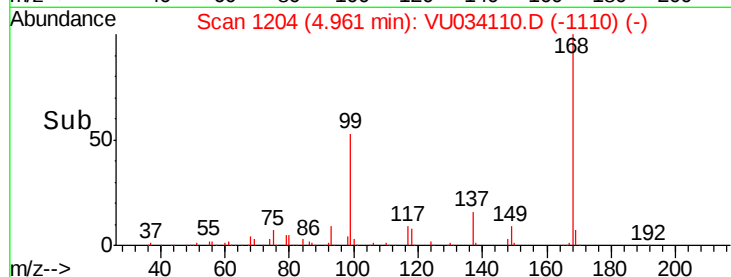
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034110.D

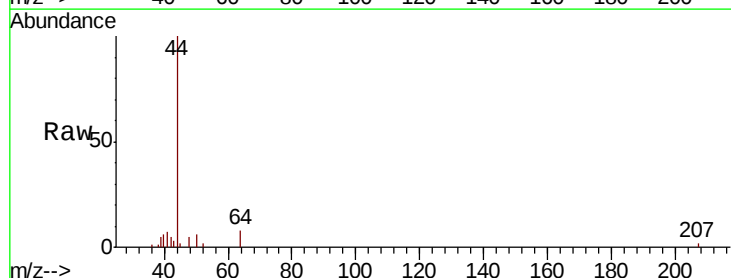
Acq: 30 Aug 2019 19:46

Tgt Ion: 50 Resp: 730

Ion Ratio Lower Upper

50 100

52 31.4 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034110.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034110.D (-1) (-)

1.32

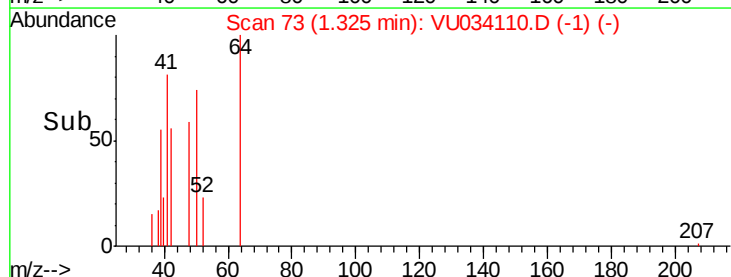
600

400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

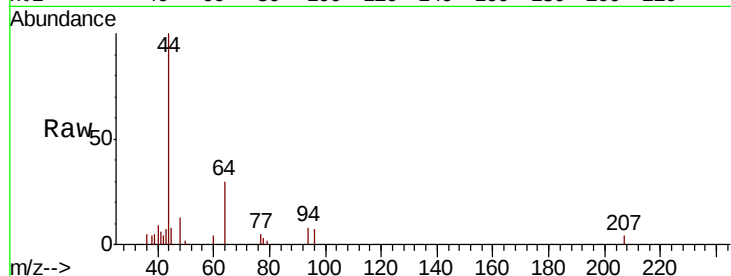
T9-12-13-T4-(1.9)

Tgt Ion: 94 Resp: 752

Ion Ratio Lower Upper

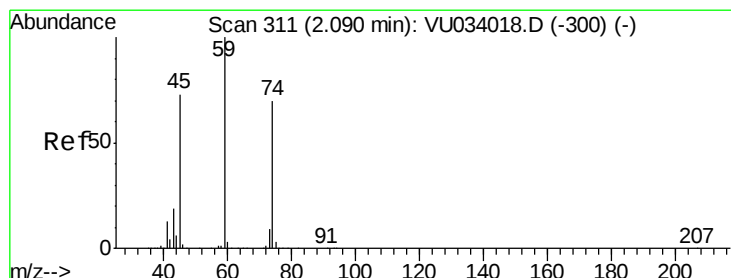
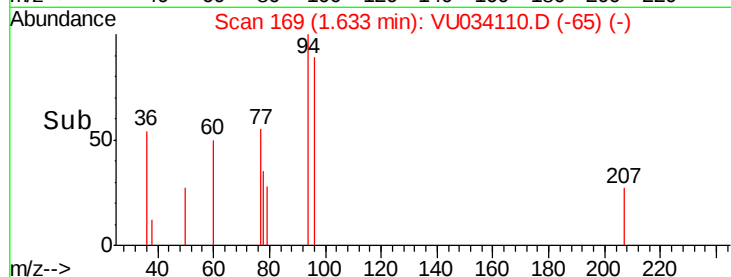
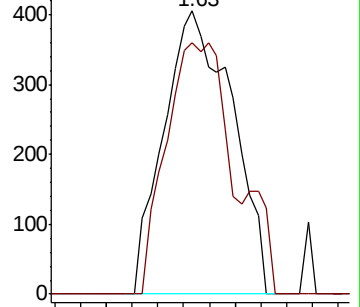
94 100

96 88.6 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#8

Diethyl Ether

Concen: 0.435 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034110.D

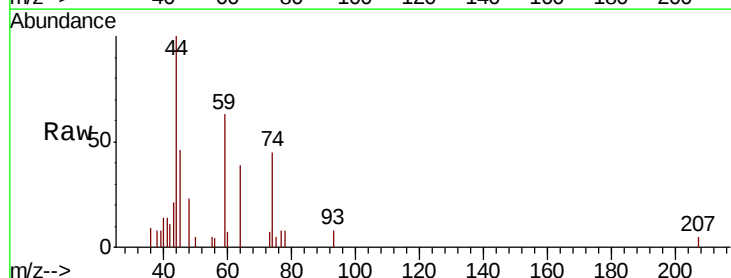
Acq: 30 Aug 2019 19:46

Tgt Ion: 74 Resp: 1520

Ion Ratio Lower Upper

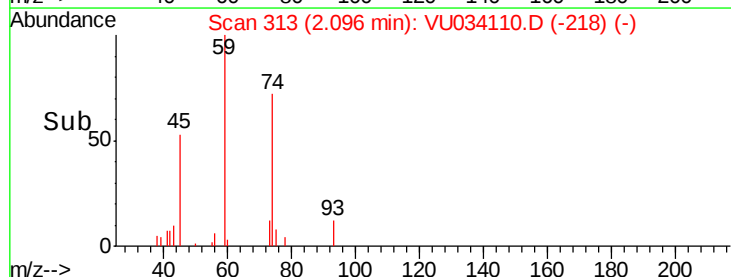
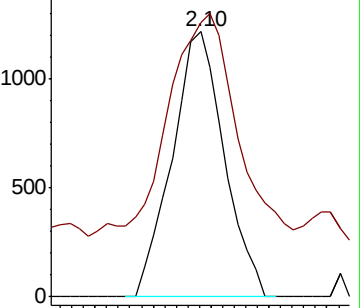
74 100

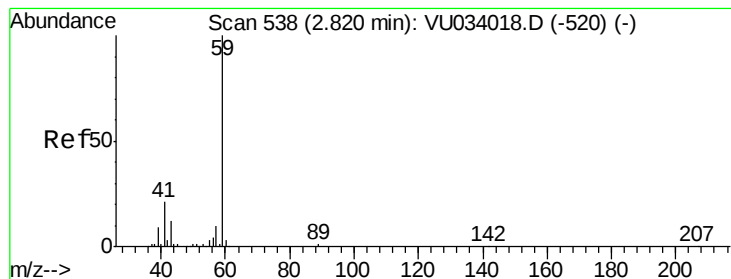
45 98.8 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#11

Tert butyl alcohol

Concen: 1.964 ug/l

RT: 2.82 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

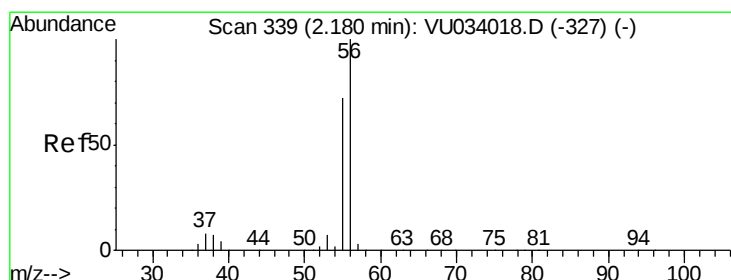
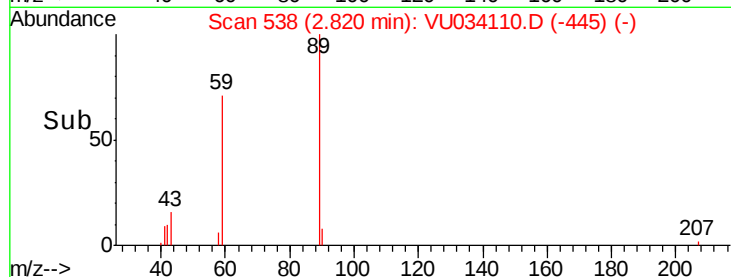
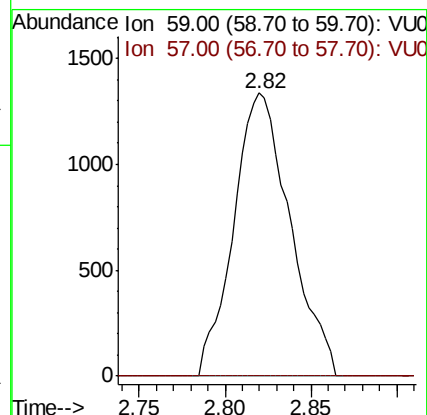
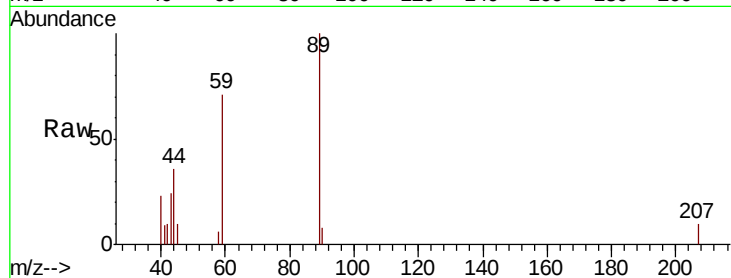
T9-12-13-T4-(1.9)

Tgt Ion: 59 Resp: 3056

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#13

Acrolein

Concen: 0.380 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034110.D

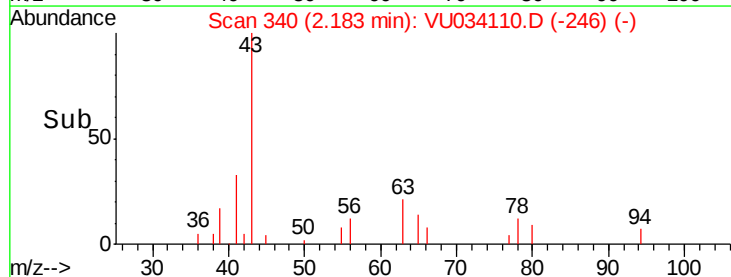
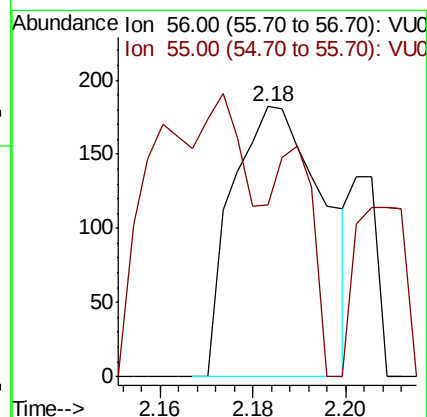
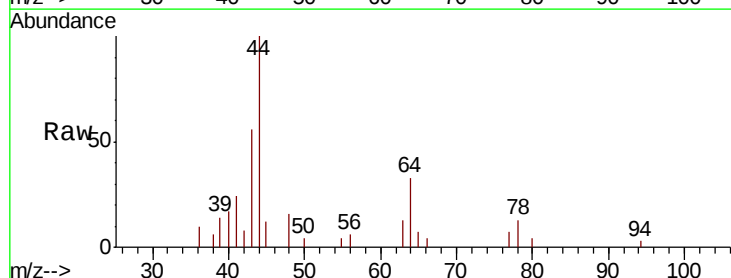
Acq: 30 Aug 2019 19:46

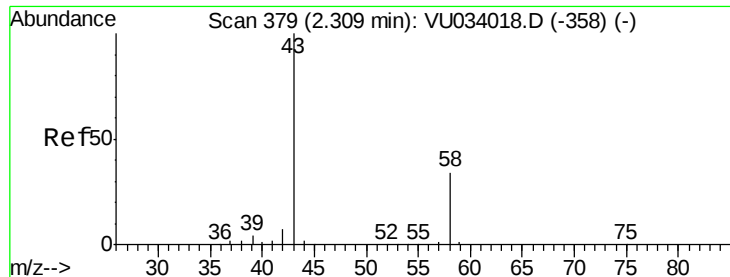
Tgt Ion: 56 Resp: 249

Ion Ratio Lower Upper

56 100

55 33.3 57.1 85.7#





#16

Acetone

Concen: 7.603 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

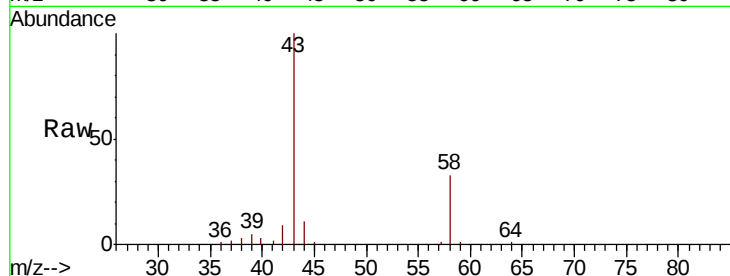
T9-12-13-T4-(1.9)

Tgt Ion: 43 Resp: 26180

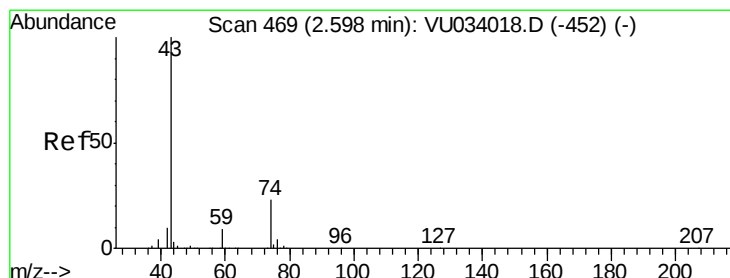
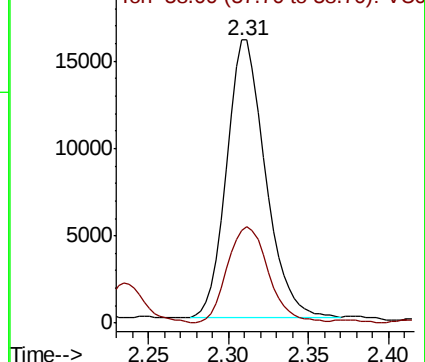
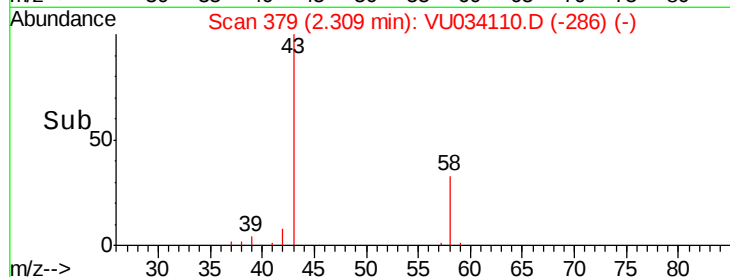
Ion Ratio Lower Upper

43 100

58 33.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034110.D (-286) (-)



#18

Methyl Acetate

Concen: 0.476 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034110.D

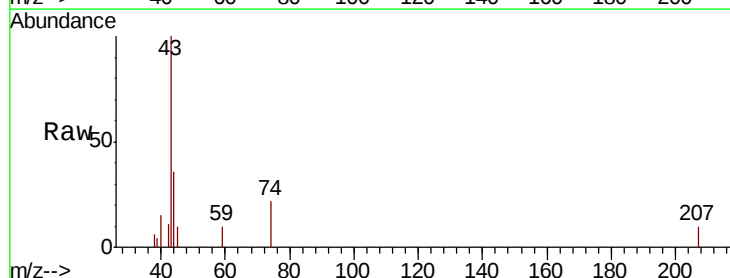
Acq: 30 Aug 2019 19:46

Tgt Ion: 43 Resp: 4237

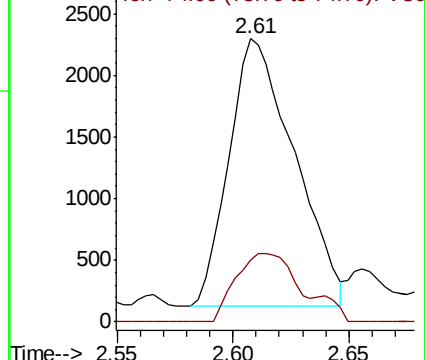
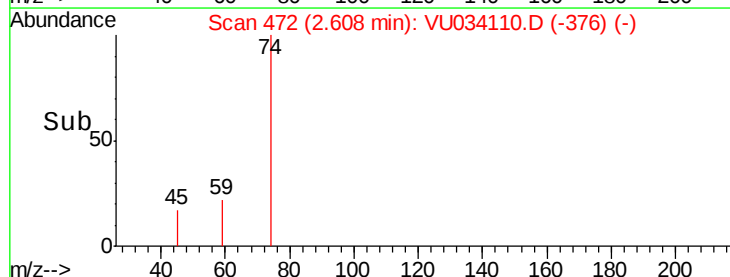
Ion Ratio Lower Upper

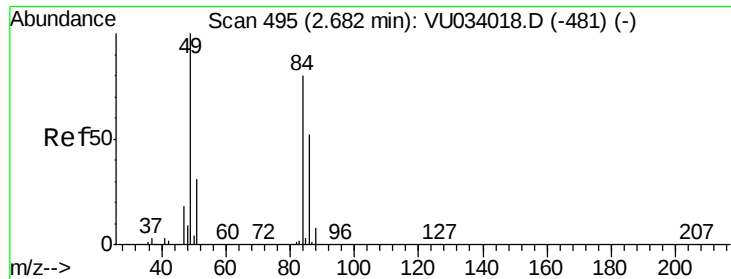
43 100

74 22.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034110.D (-376) (-)

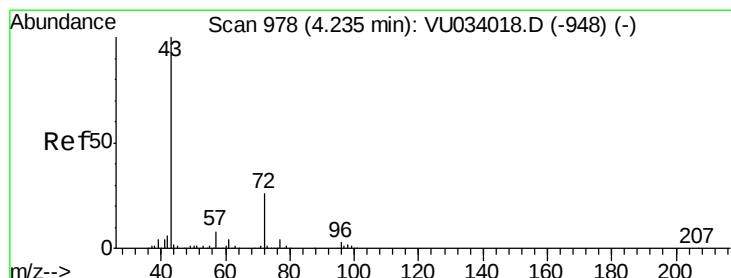
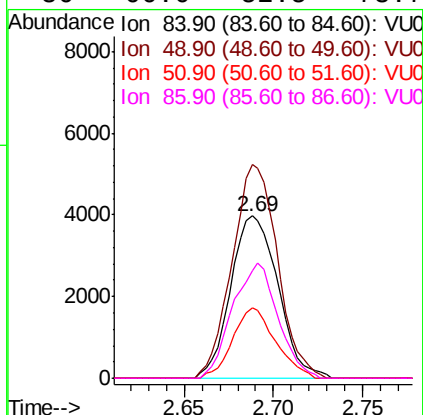
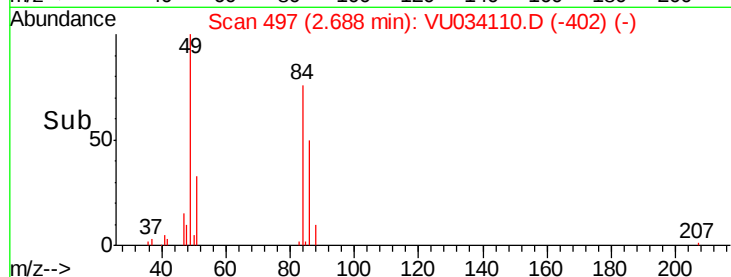
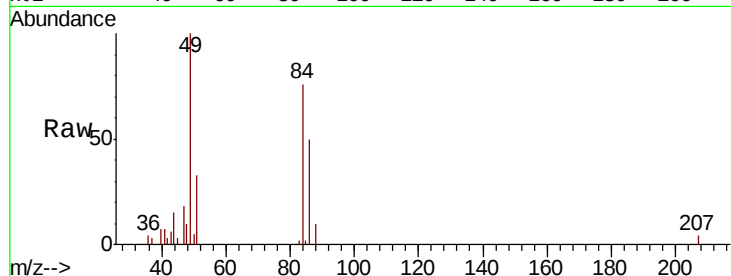




#20
Methylene Chloride
Concen: 1.125 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

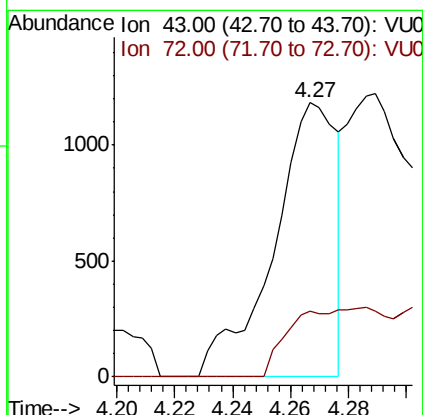
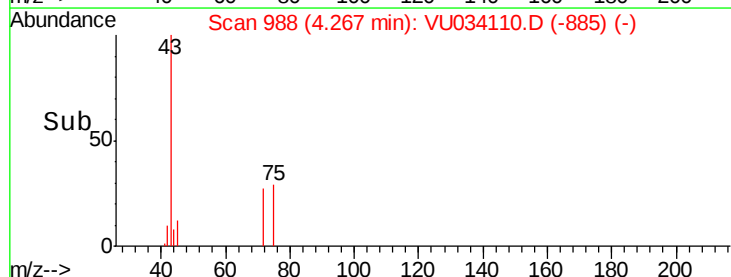
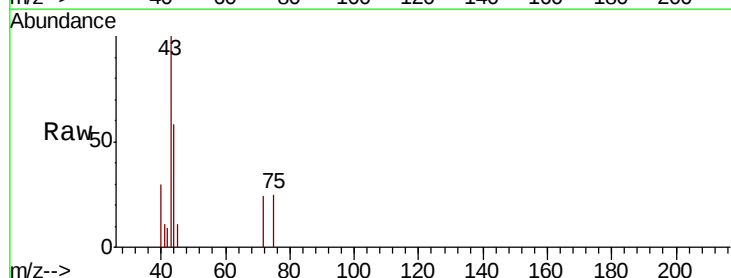
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ClientSampleId :
T9-12-13-T4-(1.9)

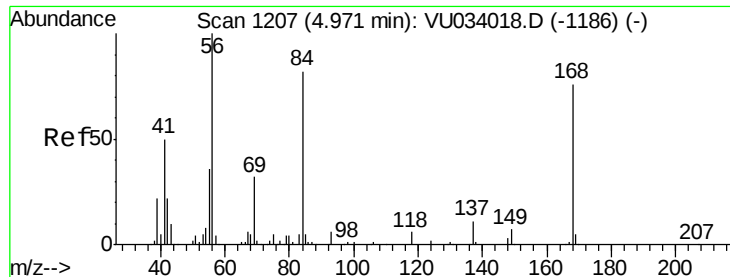
Tgt Ion:	84	Resp:	7336
Ion	Ratio	Lower	Upper
84	100		
49	131.4	100.2	150.4
51	43.2	30.8	46.2
86	66.0	52.5	78.7



#25
2-Butanone
Concen: 0.375 ug/l
RT: 4.27 min Scan# 988
Delta R.T. 0.03 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

Tgt Ion:	43	Resp:	1796
Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.2	31.8

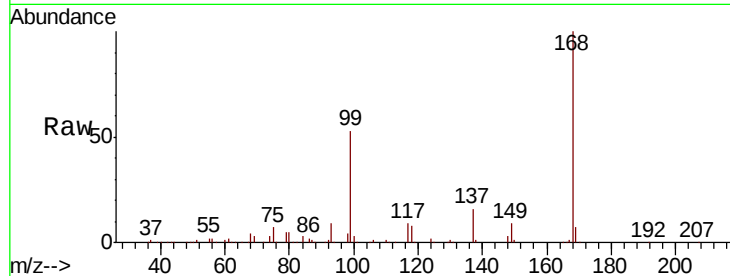




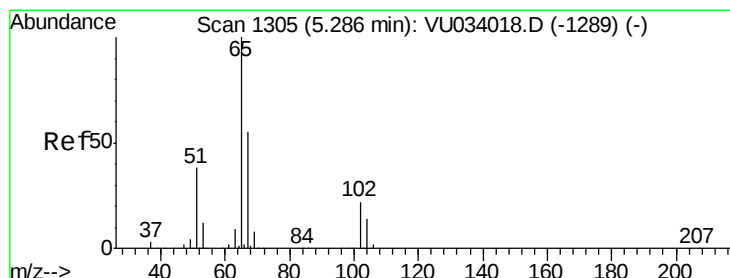
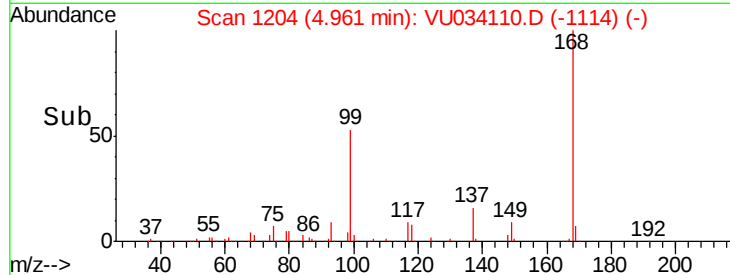
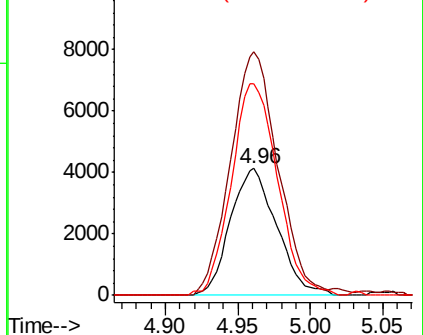
#31
Cyclohexane
Concen: 0.911 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 56 Resp: 9183
Ion Ratio Lower Upper
56 100
69 191.7 25.4 38.0#
84 166.3 65.8 98.8#

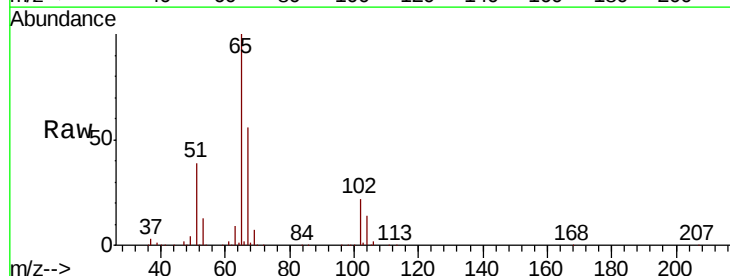


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

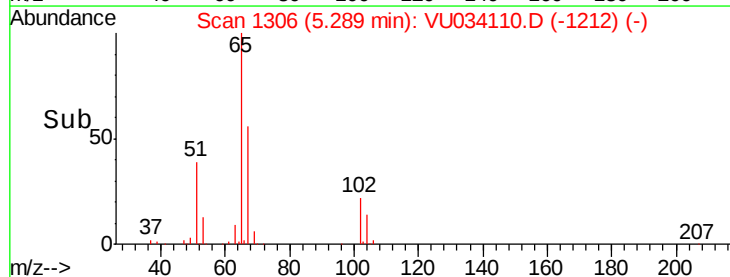
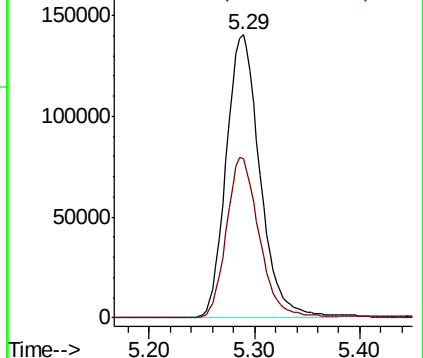


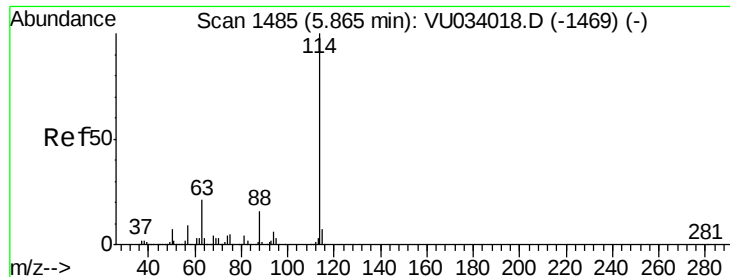
#33
1,2-Dichloroethane-d4
Concen: 46.295 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

Tgt Ion: 65 Resp: 312407
Ion Ratio Lower Upper
65 100
67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-T4-(1.9)

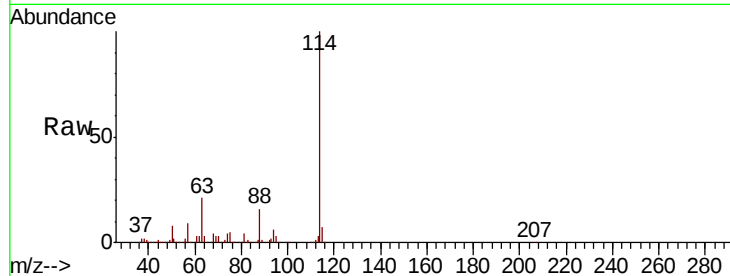
Tgt Ion:114 Resp: 841746

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.0

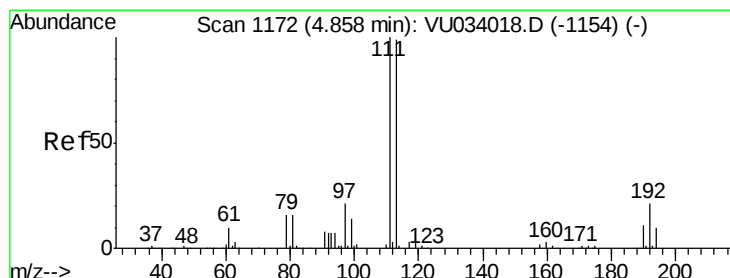
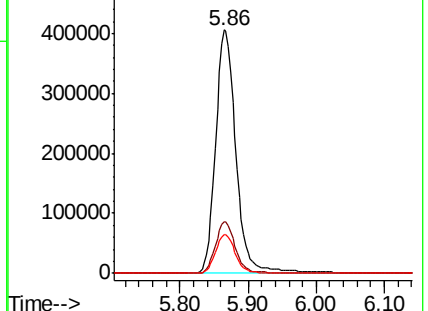
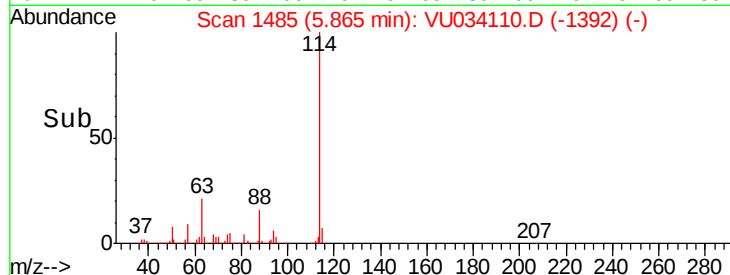
88 15.9 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 44.984 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

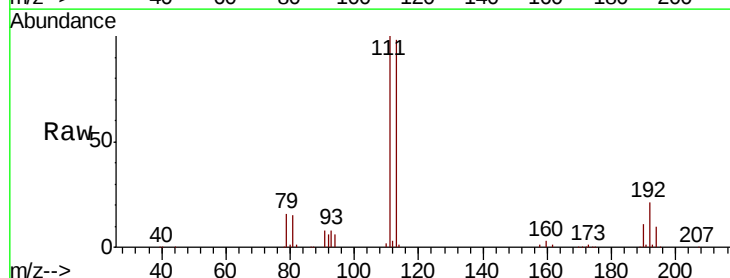
Tgt Ion:113 Resp: 262629

Ion Ratio Lower Upper

113 100

111 101.8 81.7 122.5

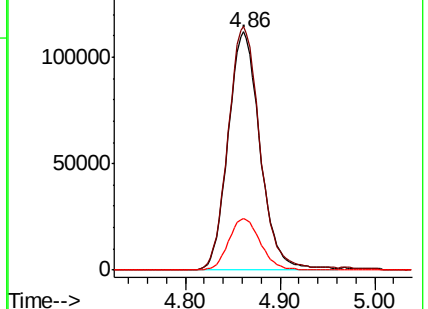
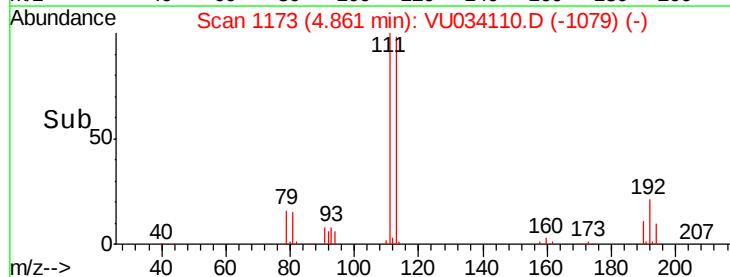
192 21.7 17.1 25.7

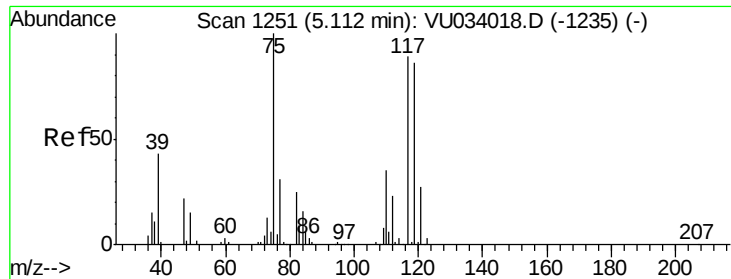


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

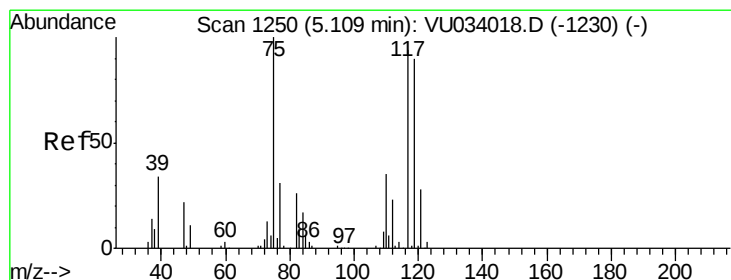
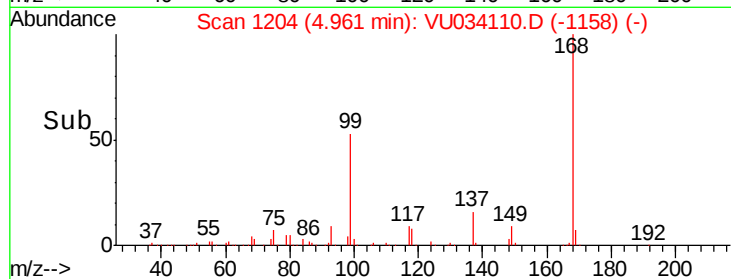
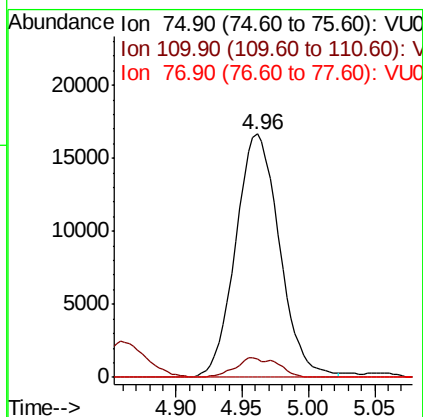
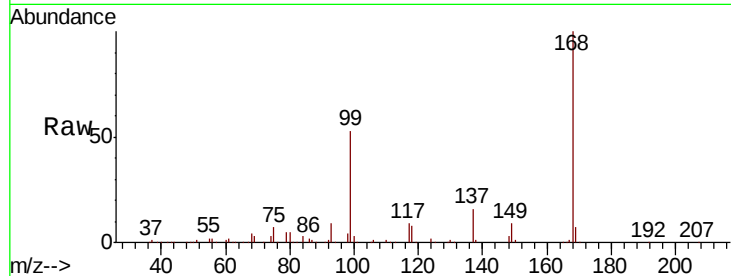




#36
 1,1-Dichloropropene
 Concen: 4.825 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

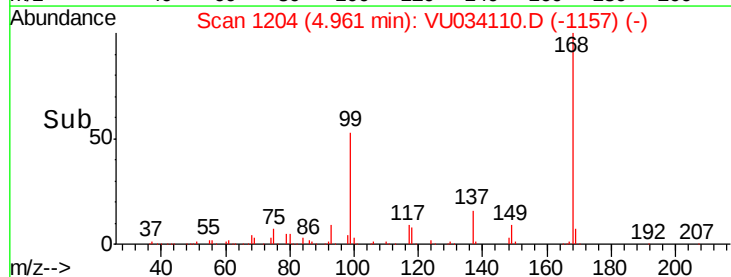
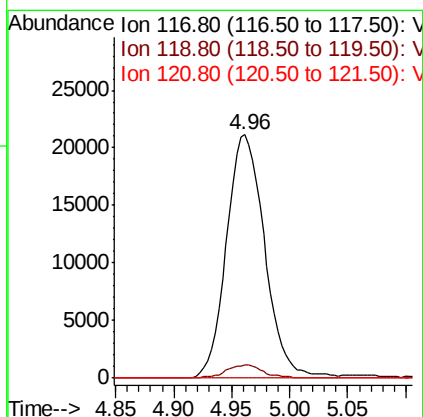
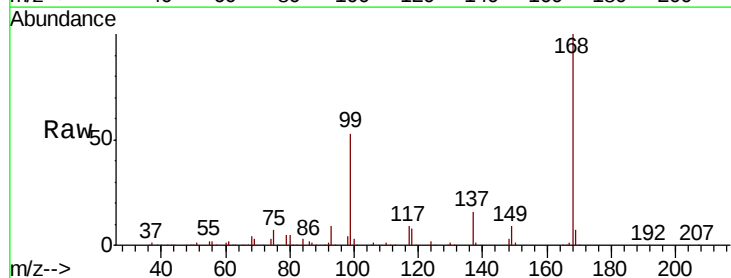
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-T4-(1.9)

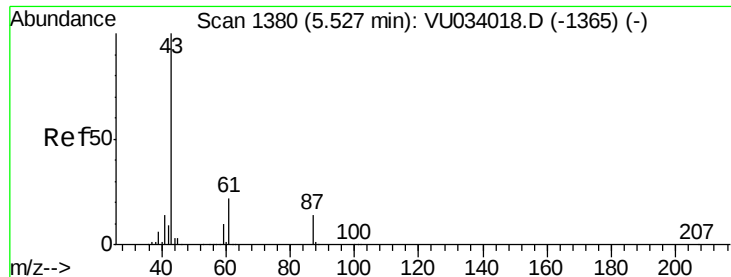
Tgt Ion: 75 Resp: 38417
 Ion Ratio Lower Upper
 75 100
 110 7.8 17.8 53.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.312 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

Tgt Ion: 117 Resp: 48508
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.0 115.4#
 121 0.0 23.9 35.9#

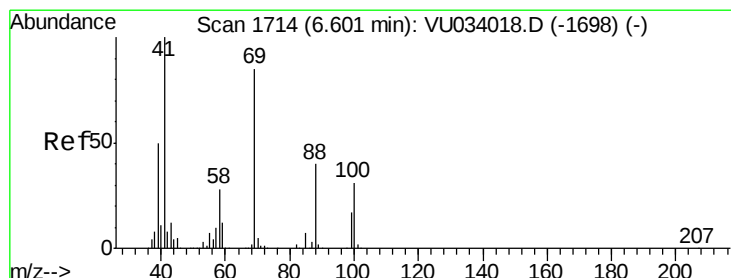
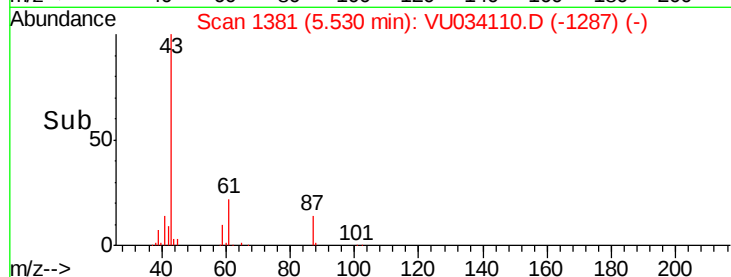
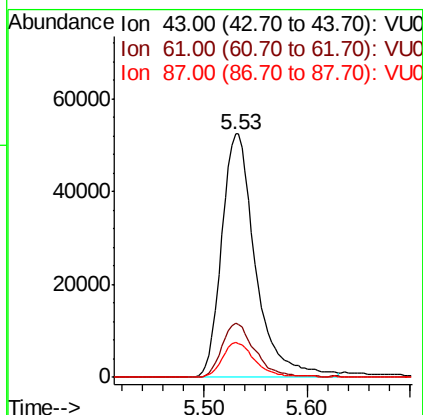
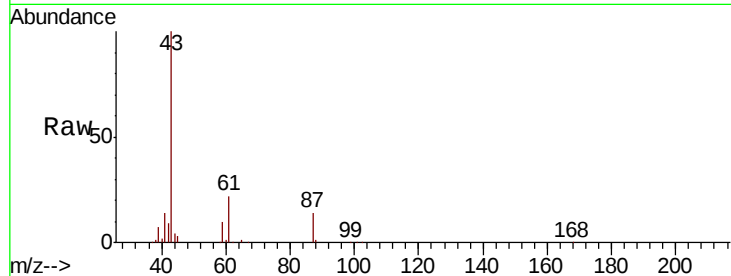




#43
Isopropyl Acetate
Concen: 8.848 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

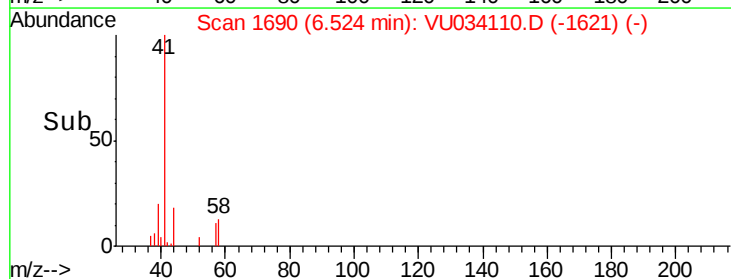
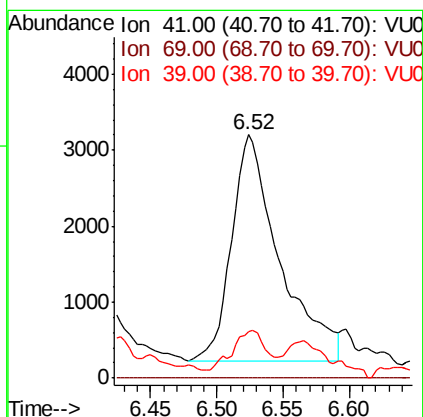
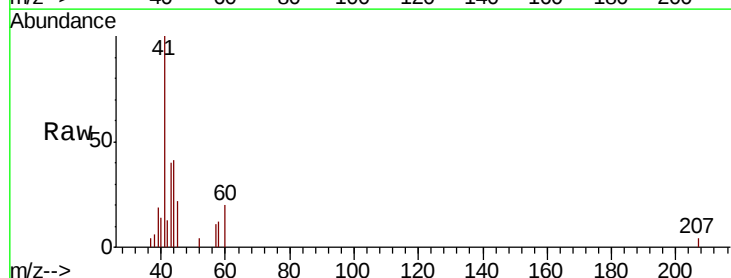
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-T4-(1.9)

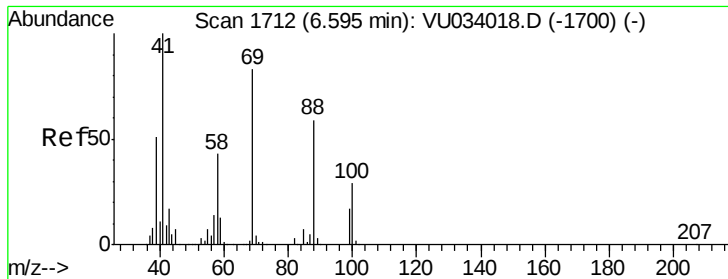
Tgt Ion: 43 Resp: 120016
Ion Ratio Lower Upper
43 100
61 21.9 17.2 25.8
87 13.9 10.8 16.2



#48
Methyl methacrylate
Concen: 1.150 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

Tgt Ion: 41 Resp: 7528
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#

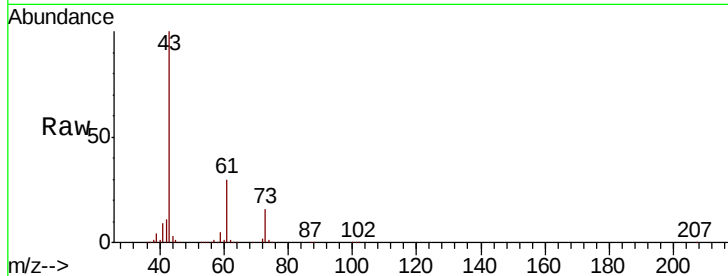




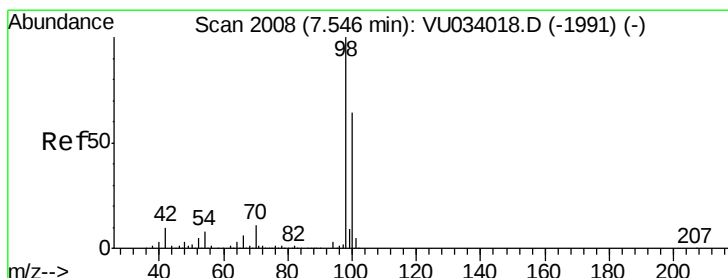
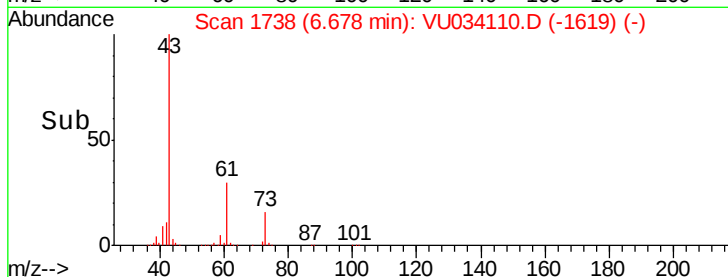
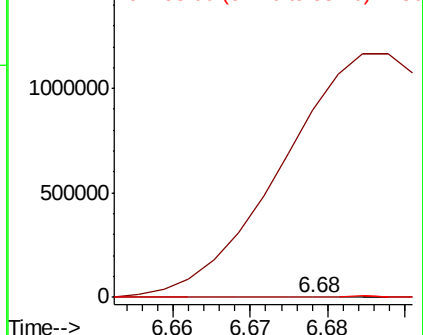
#49
 1,4-Dioxane
 Concen: 1.037 ug/l
 RT: 6.68 min Scan# 1738
 Delta R.T. 0.08 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-T4-(1.9)

Tgt Ion: 88 Resp: 170
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.8 37.2#
 58 0.0 59.3 88.9#

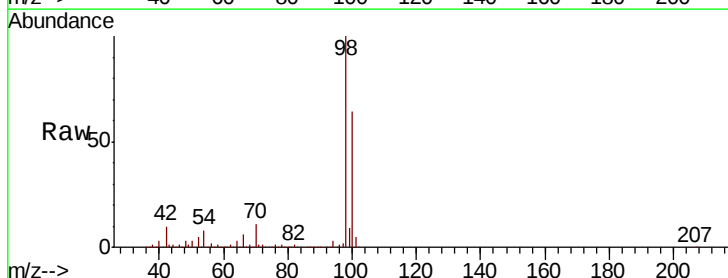


Abundance Ion 88.00 (87.70 to 88.70): VU0
 Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0

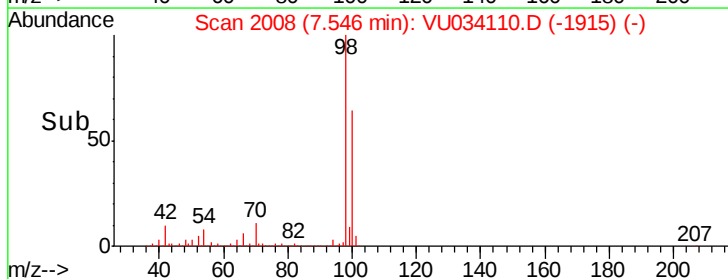
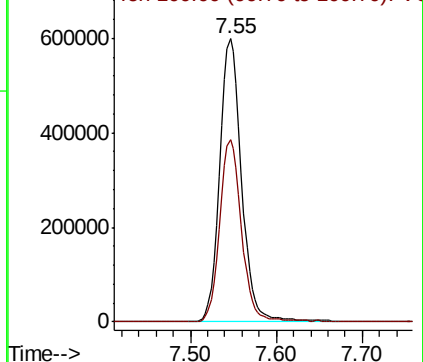


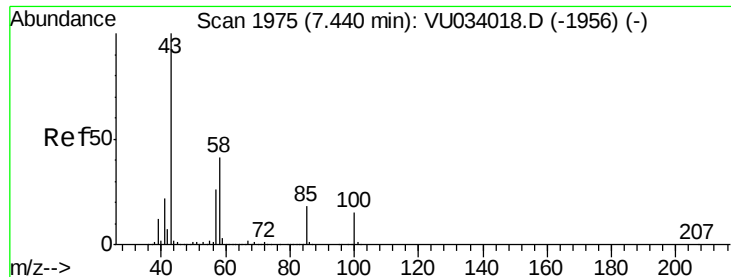
#50
 Toluene-d8
 Concen: 48.625 ug/l
 RT: 7.55 min Scan# 2008
 Delta R.T. -0.00 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

Tgt Ion: 98 Resp: 1062977
 Ion Ratio Lower Upper
 98 100
 100 64.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

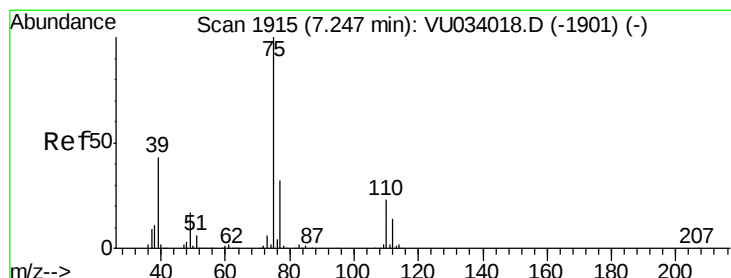
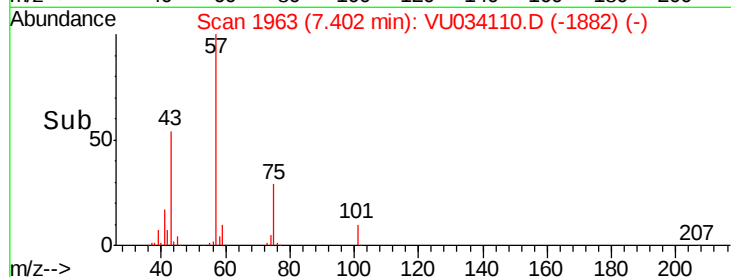
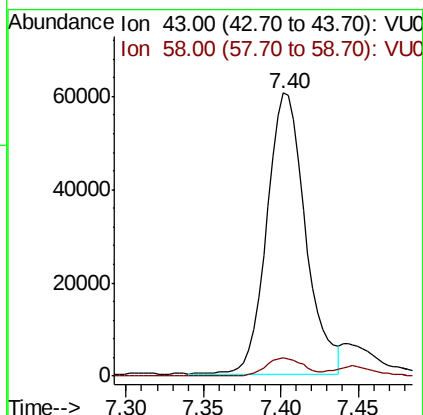
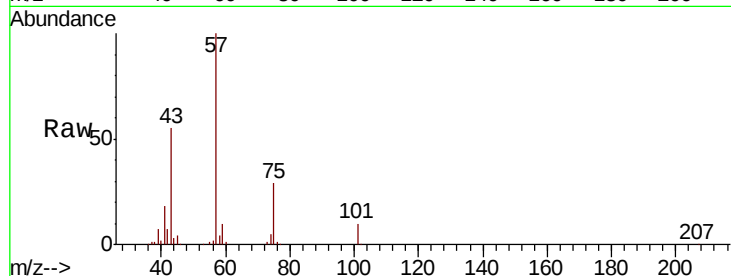




#51
 4-Methyl-2-Pentanone
 Concen: 11.142 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

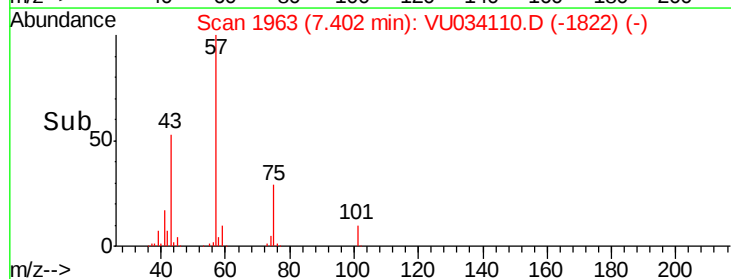
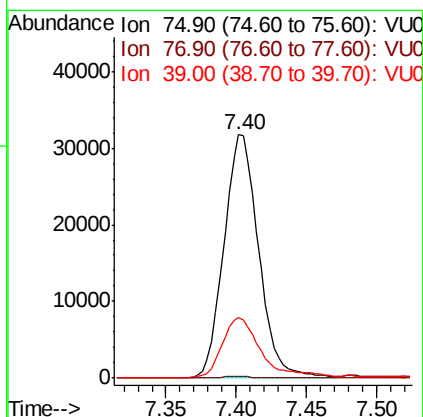
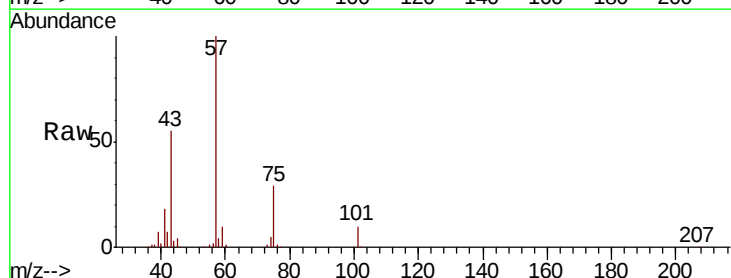
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-T4-(1.9)

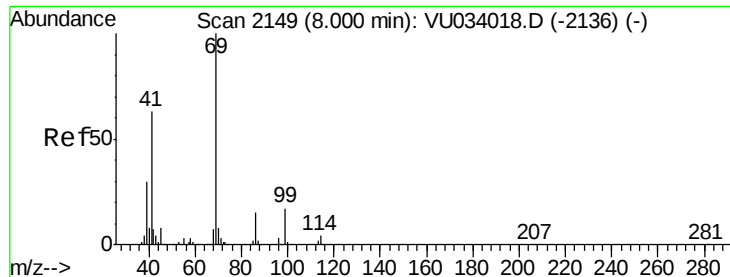
Tgt Ion: 43 Resp: 104375
 Ion Ratio Lower Upper
 43 100
 58 6.6 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 5.388 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

Tgt Ion: 75 Resp: 54588
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 24.3 34.6 51.8#





#56

Ethyl methacrylate

Concen: 1.161 ug/l

RT: 8.13 min Scan# 2191

Delta R.T. 0.14 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-T4-(1.9)

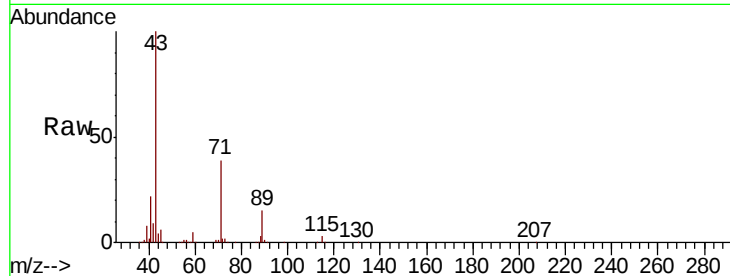
Tgt Ion: 69 Resp: 2007

Ion Ratio Lower Upper

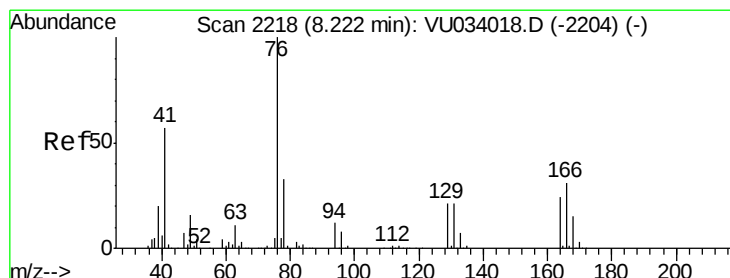
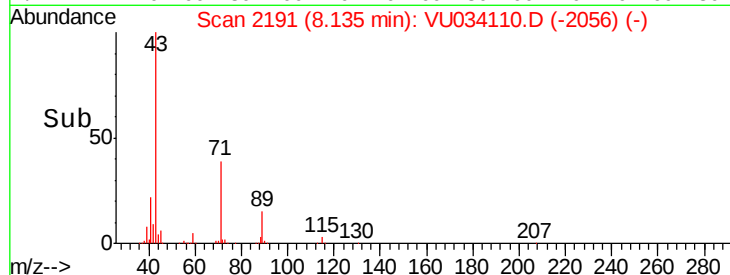
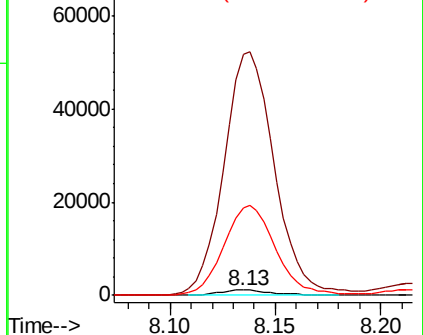
69 100

41 4329.4 50.7 76.1#

39 1647.1 24.2 36.2#



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



#57

1,3-Dichloropropane

Concen: 0.870 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034110.D

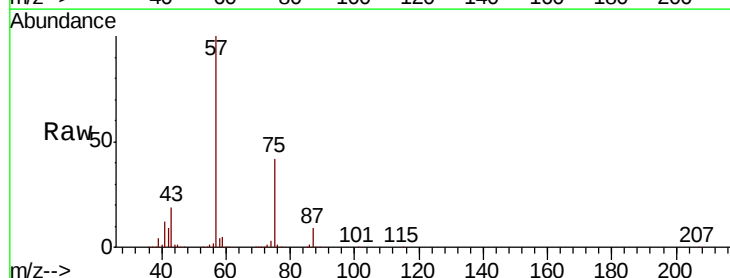
Acq: 30 Aug 2019 19:46

Tgt Ion: 76 Resp: 9273

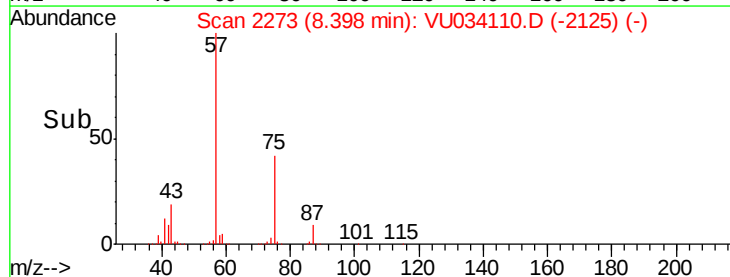
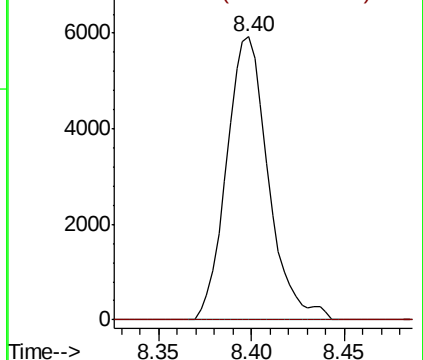
Ion Ratio Lower Upper

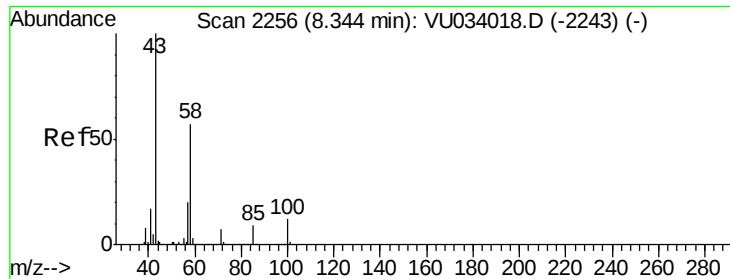
76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU0
Ion 77.90 (77.60 to 78.60): VU0

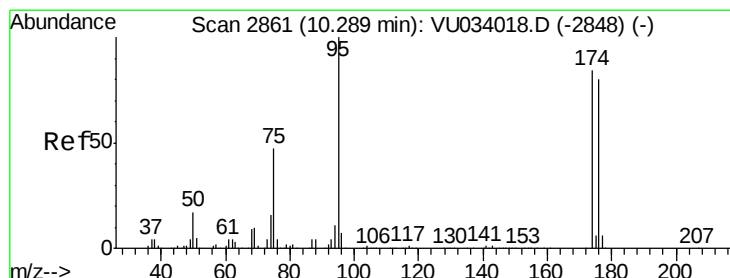
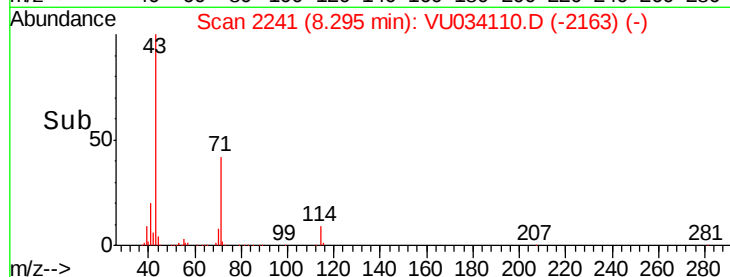
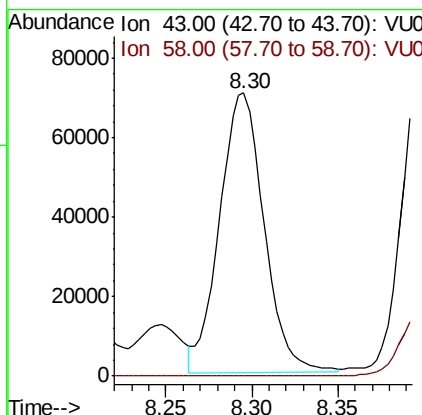
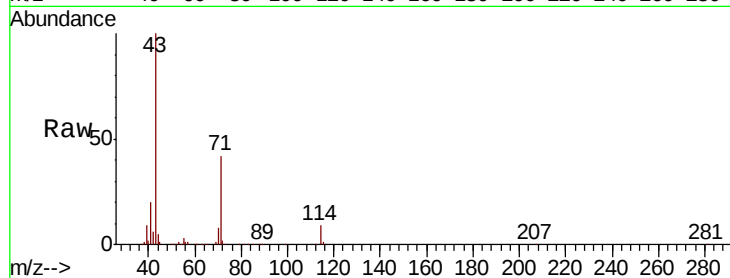




#59
2-Hexanone
Concen: 17.983 ug/l
RT: 8.30 min Scan# 2241
Delta R.T. -0.05 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

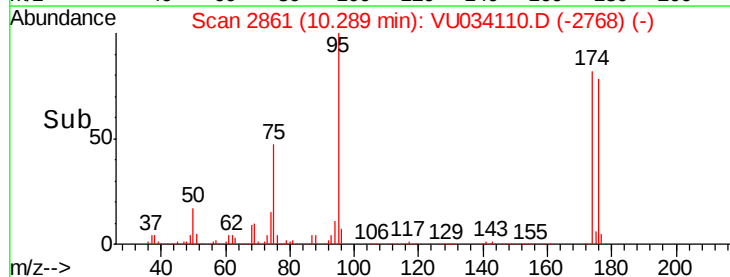
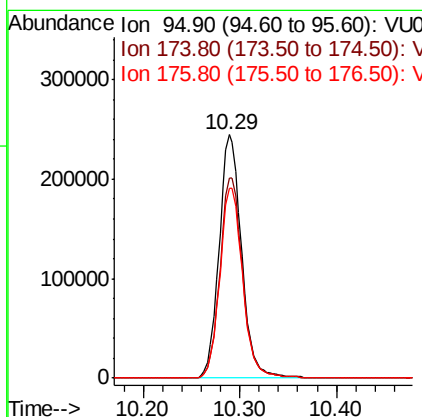
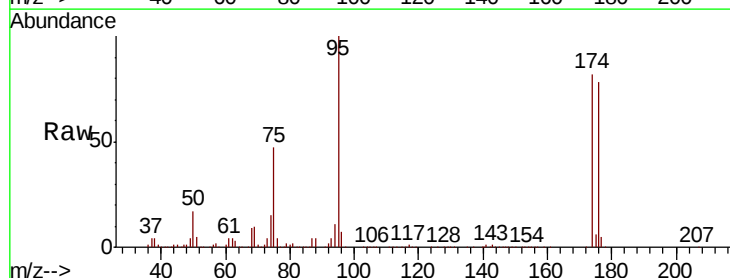
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-T4-(1.9)

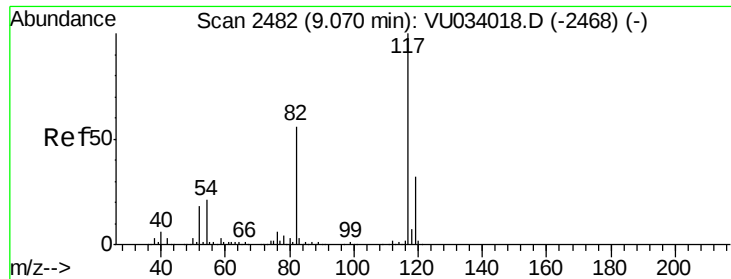
Tgt Ion: 43 Resp: 127169
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 46.419 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

Tgt Ion: 95 Resp: 394724
Ion Ratio Lower Upper
95 100
174 83.2 0.0 168.8
176 79.6 0.0 161.8

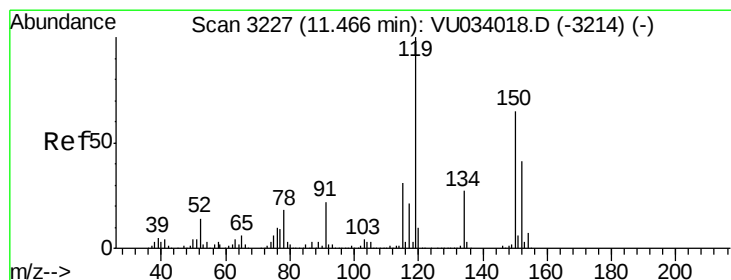
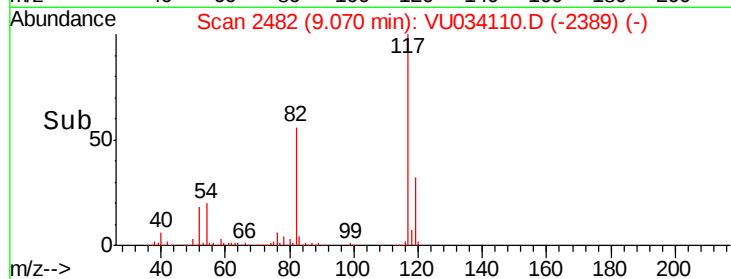
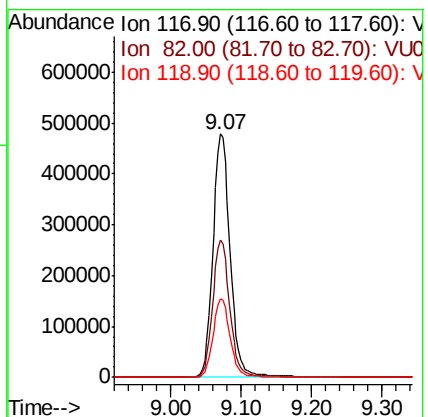
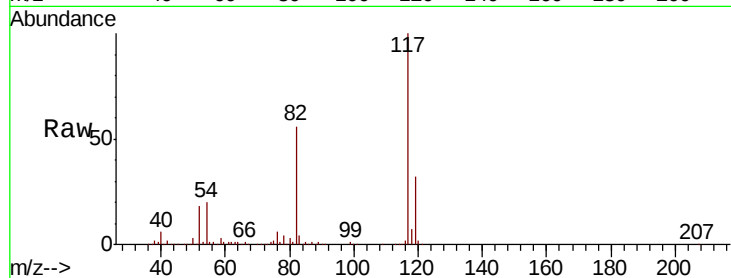




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

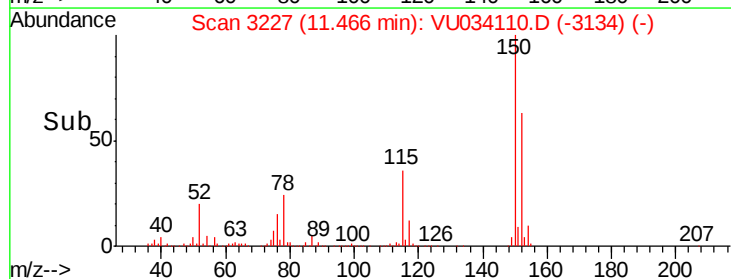
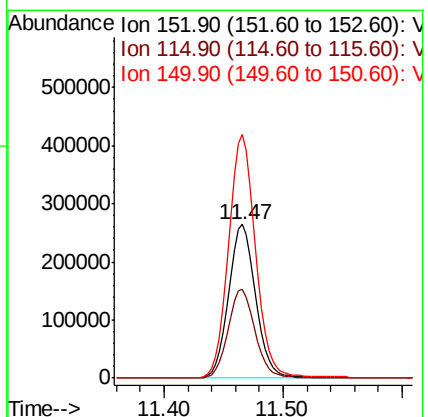
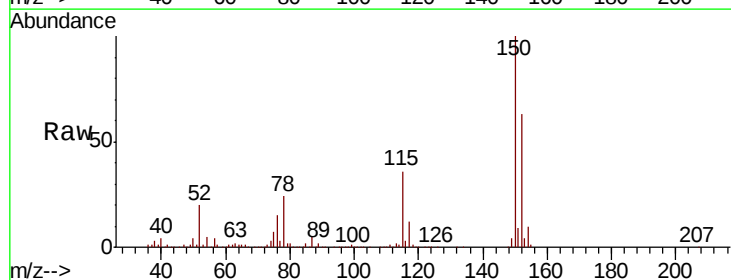
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-T4-(1.9)

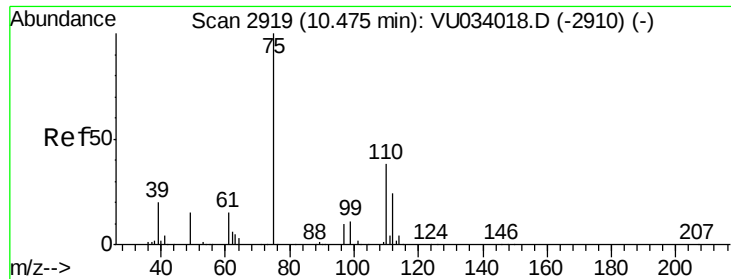
Tgt Ion:117 Resp: 807754
Ion Ratio Lower Upper
117 100
82 56.3 45.1 67.7
119 32.1 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VU034110.D
Acq: 30 Aug 2019 19:46

Tgt Ion:152 Resp: 417856
Ion Ratio Lower Upper
152 100
115 57.5 41.1 123.3
150 158.4 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 19.891 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

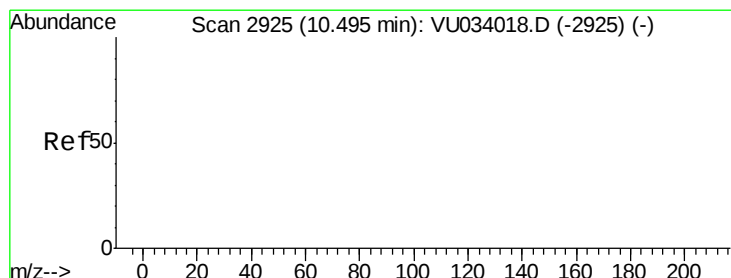
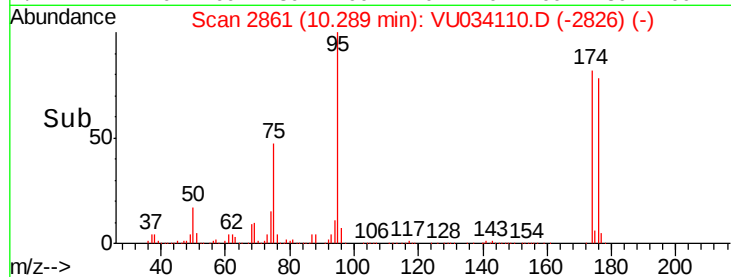
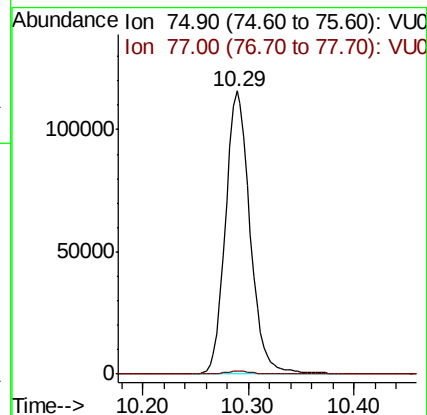
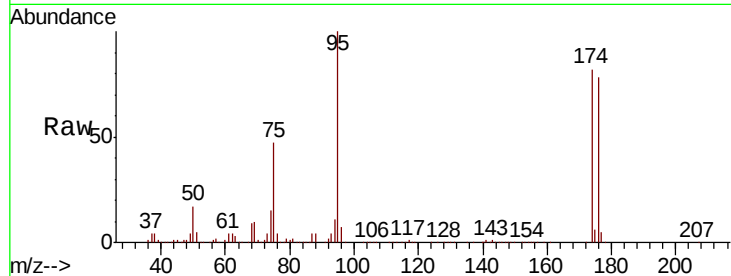
T9-12-13-T4-(1.9)

Tgt Ion: 75 Resp: 187326

Ion Ratio Lower Upper

75 100

77 1.1 20.1 60.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.977 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034110.D

Acq: 30 Aug 2019 19:46

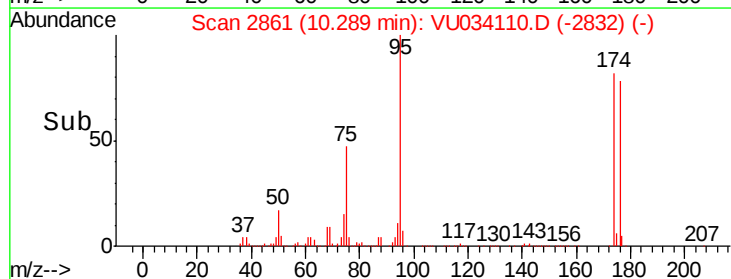
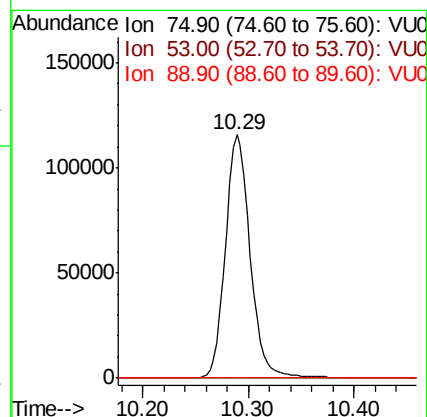
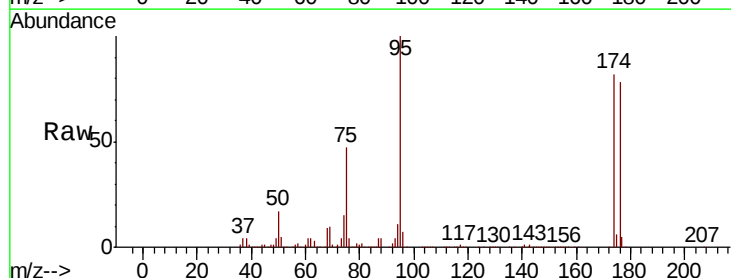
Tgt Ion: 75 Resp: 187326

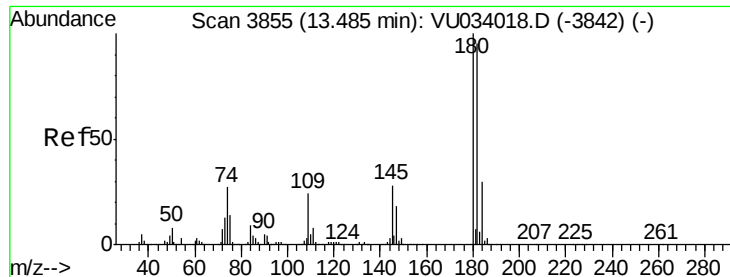
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

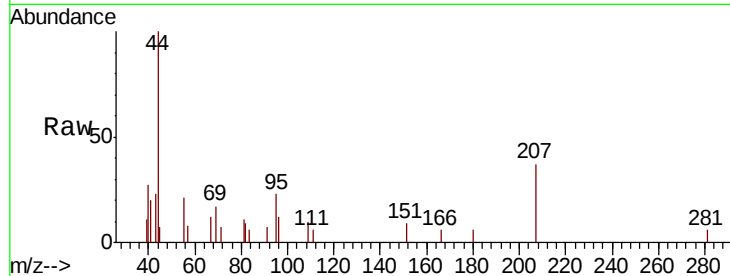




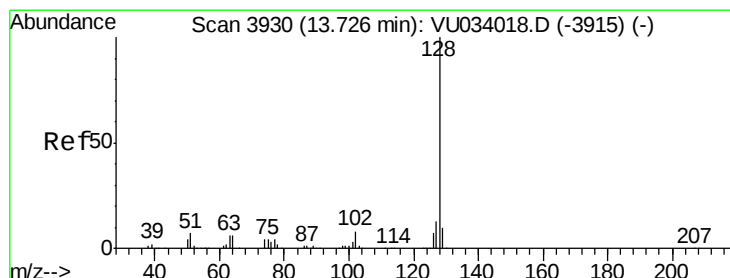
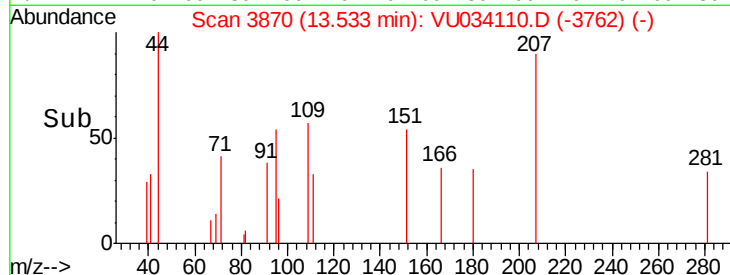
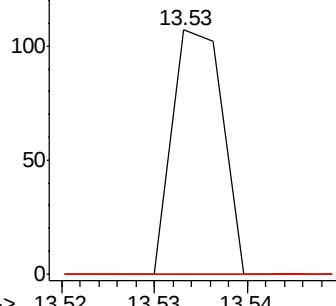
#93
 1,2,4-Trichlorobenzene
 Concen: 1.118 ug/l
 RT: 13.53 min Scan# 3870
 Delta R.T. 0.05 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-T4-(1.9)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	14.1	42.3#

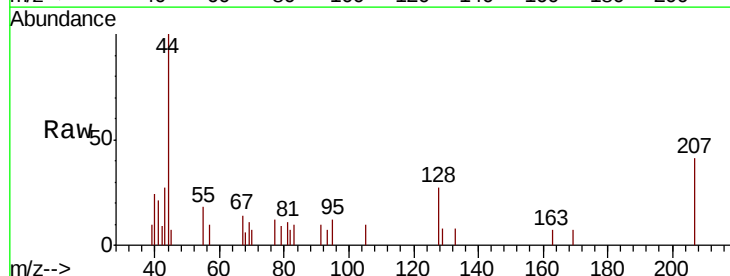


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.822 ug/l
 RT: 13.76 min Scan# 3939
 Delta R.T. 0.03 min
 Lab File: VU034110.D
 Acq: 30 Aug 2019 19:46

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	5.4	8.4	12.6#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

