

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029377.D
 Acq On : 08 Feb 2019 14:01
 Operator : JC/SP
 Sample : K1161-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 09 03:18:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	55365	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	19541	0.90	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	21438	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	44	0.002	ug/l # 43
3) Chloromethane	1.33	50	582	0.031	ug/l # 84
4) Vinyl Chloride	1.46	62	19	0.001	ug/l # 43
5) Bromomethane	1.57	94	103	0.008	ug/l # 91
6) Chloroethane	1.73	64	236	0.018	ug/l # 42
7) Trichlorofluoromethane	1.84	101	19	0.001	ug/l # 1
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	456	0.028	ug/l # 76
9) 1,1-Dichloroethene	2.27	96	101	0.006	ug/l # 1
10) Iodomethane	2.42	142	390	0.316	ug/l # 88
11) Allyl Chloride	2.75	41	285	0.011	ug/l # 86
12) Acrylonitrile	2.94	53	189	0.053	ug/l # 24
13) Acetone	2.22	43	93	0.027	ug/l # 94
14) Carbon Disulfide	2.47	76	1731	0.031	ug/l # 75
15) Methylene Chloride	2.70	84	5475	0.283	ug/l # 73
16) trans-1,2-Dichloroethene	2.98	96	66	0.004	ug/l # 1
17) 1,1-Dichloroethane	3.41	63	160	0.006	ug/l # 22
18) 2-Butanone	4.27	43	77	0.020	ug/l # 78
19) Cyclohexane	4.98	56	177	0.007	ug/l # 1
21) 2,2-Dichloropropane	4.23	77	238	0.009	ug/l # 1
22) cis-1,2-Dichloroethene	4.23	96	126	0.007	ug/l # 1
23) Diethyl Ether	2.10	59	790	0.062	ug/l # 72
24) tert-Butyl Alcohol	2.83	59	1328	0.996	ug/l # 86
25) Methyl tert-Butyl Ether	3.00	73	216	0.005	ug/l # 1
27) Chloroform	4.67	83	502517	18.257	ug/l # 96
28) 1,1,1-Trichloroethane	4.91	97	43	0.002	ug/l # 22
31) Isopropyl Ether	3.57	45	810	0.019	ug/l # 70
32) Ethyl-t-butyl ether	4.08	59	47	0.001	ug/l # 36
33) Tert-Amyl methyl ether	5.58	73	360	0.009	ug/l # 83
34) Propionitrile	4.31	54	19	0.019	ug/l # 1
35) Benzene	5.40	78	144	0.002	ug/l # 50
39) Methacrylonitrile	4.55	41	220	0.042	ug/l # 43
40) Methyl acrylate	4.42	55	56	0.007	ug/l # 1
41) Tetrahydrofuran	4.65	42	179	0.068	ug/l # 36
42) 1-Chlorobutane	5.10	56	132	0.004	ug/l # 61
43) Dibromomethane	6.76	93	30667	3.612	ug/l # 4
44) Bromodichloromethane	6.76	83	955809	44.181	ug/l # 95
45) 4-Methyl-2-Pentanone	7.45	43	206	0.021	ug/l # 47
46) t-1,4-Dichloro-2-butene	10.31	75	9827	2.027	ug/l # 16
47) Methyl methacrylate	6.64	69	69	0.009	ug/l # 1
48) Ethyl methacrylate	8.04	69	107	0.007	ug/l # 62
52) 1,1,2-Trichloroethane	8.10	97	40	0.004	ug/l # 14

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

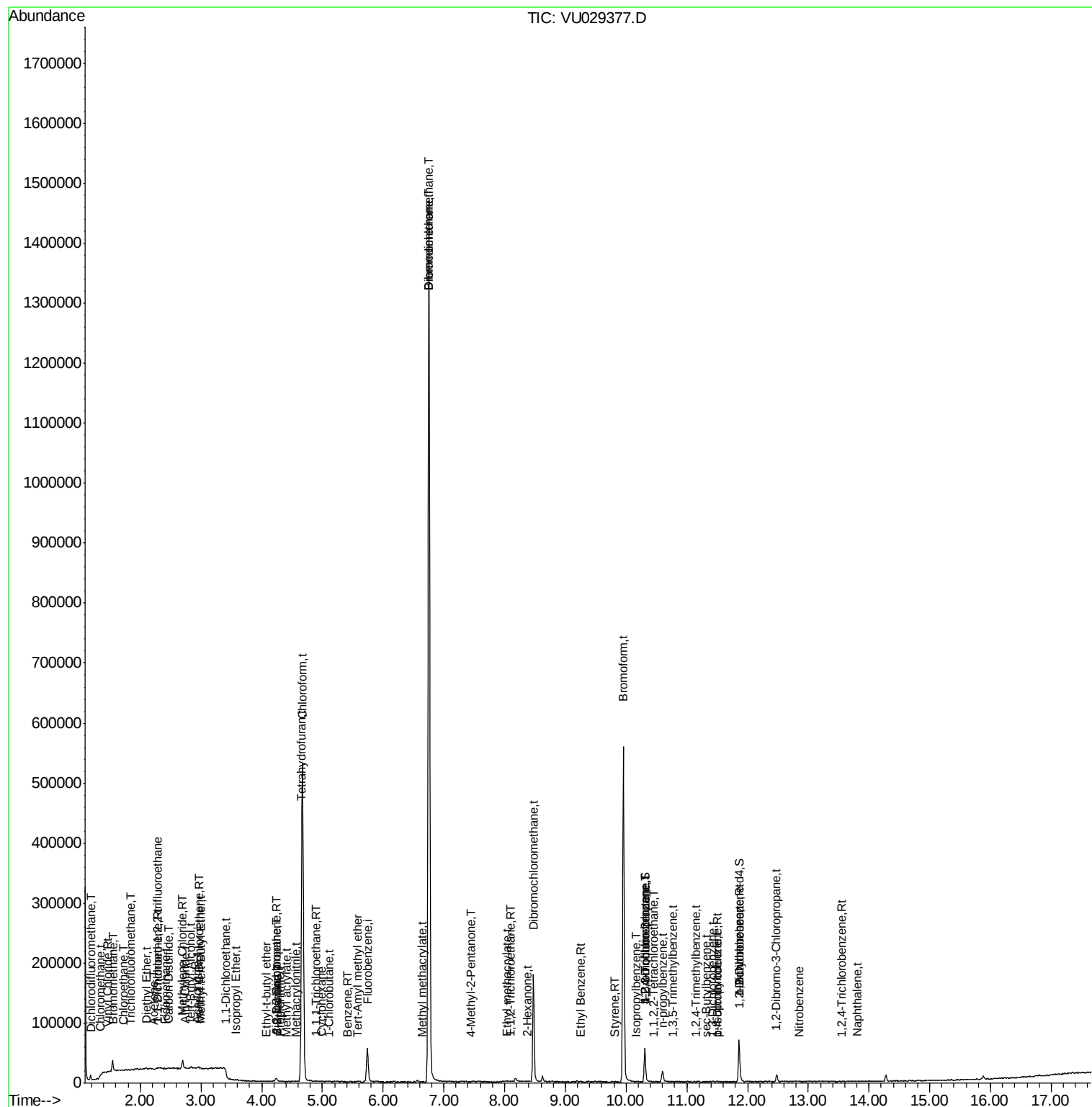
54) 2-Hexanone	8.38	43	203	0.029	ug/l #	39
55) Dibromochloromethane	8.48	129	95026	5.948	ug/l	97
63) Ethyl Benzene	9.24	91	132	0.002	ug/l #	45
66) Styrene	9.81	104	205	0.004	ug/l #	30
67) Bromoform	9.95	173	265881	26.752	ug/l	99
69) Isopropylbenzene	10.15	105	43	0.001	ug/l #	50
70) 1,1,2,2-Tetrachloroethane	10.46	83	22	0.002	ug/l #	26
71) 1,2,3-Trichloropropane	10.31	75	9827	0.993	ug/l #	49
73) n-propylbenzene	10.59	120	1896	0.087	ug/l	90
75) 1,3,5-Trimethylbenzene	10.77	105	206	0.003	ug/l #	30
78) 1,2,4-Trimethylbenzene	11.16	105	158	0.002	ug/l	74
79) sec-Butylbenzene	11.33	105	224	0.003	ug/l #	58
80) Nitrobenzene	12.85	77	40	0.062	ug/l #	43
81) p-Isopropyltoluene	11.49	119	70	0.001	ug/l #	1
82) 1,3-Dichlorobenzene	11.42	146	127	0.003	ug/l #	24
83) 1,4-Dichlorobenzene	11.51	146	234	0.006	ug/l #	45
84) n-Butylbenzene	11.87	91	70	0.001	ug/l #	1
85) 1,2-Dichlorobenzene	11.88	146	106	0.003	ug/l #	70
86) 1,2-Dibromo-3-Chloropropan	12.49	75	185	0.069	ug/l #	11
87) 1,2,4-Trichlorobenzene	13.55	180	23	0.001	ug/l #	12
89) Naphthalene	13.80	128	67	0.002	ug/l #	69

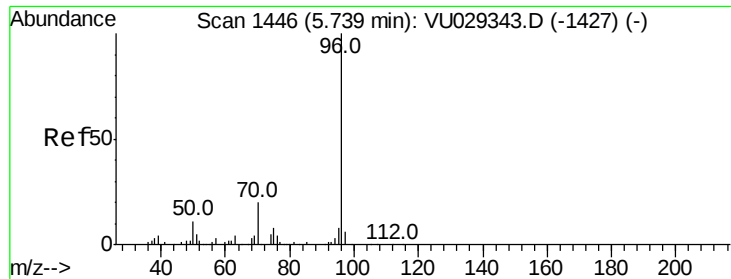
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 08 10:52:46 2019
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. -0.00 min

Lab File: VU029377.D

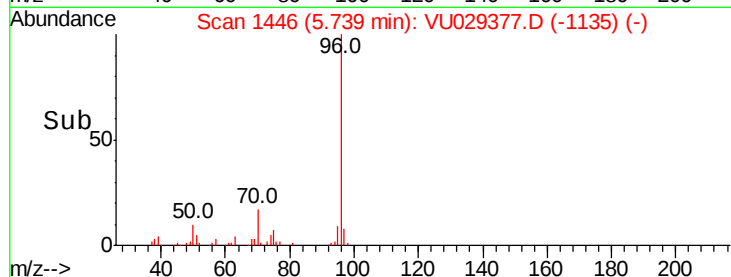
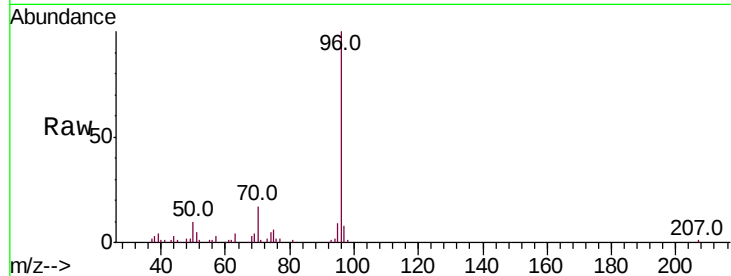
Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampleId :

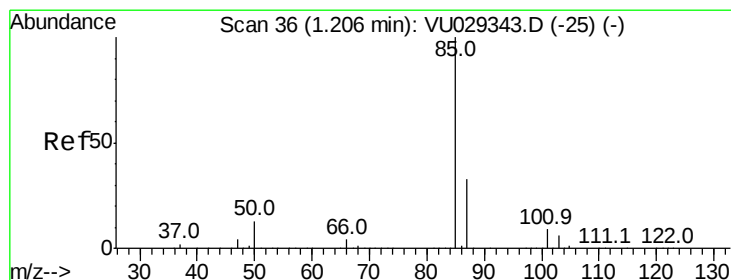
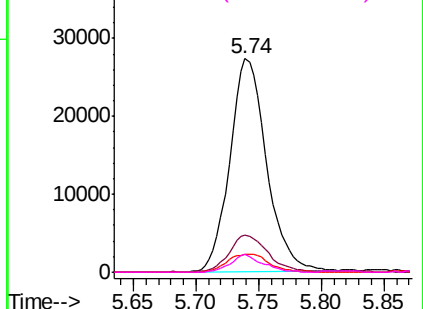
Tot Ion: 96 Resp: 55365

Ion Ratio Lower Upper

96	100		
70	17.9	16.2	24.2
95	9.9	7.4	11.2
97	7.3	0.0	0.0#



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 70.00 (69.70 to 70.70): VU0
Ion 95.00 (94.70 to 95.70): VU0
Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 0.002 ug/l

RT: 1.20 min Scan# 34

Delta R.T. -0.01 min

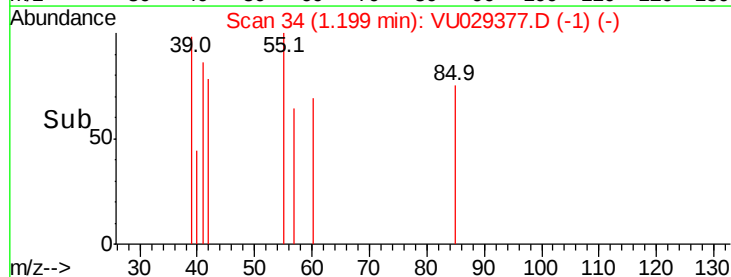
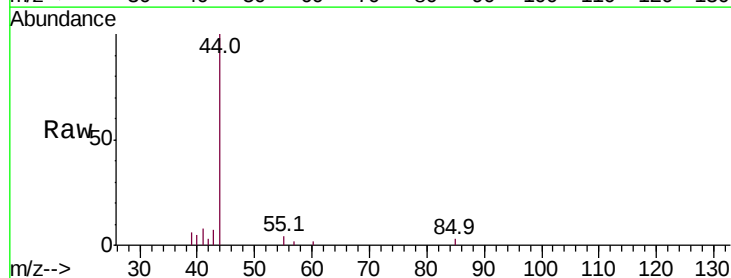
Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

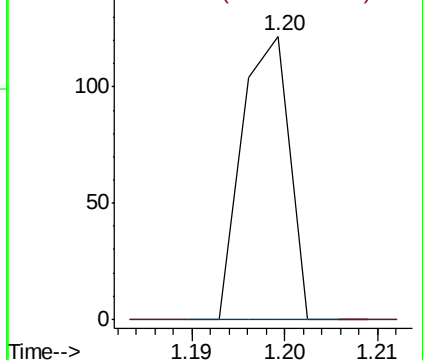
Tgt Ion: 85 Resp: 44

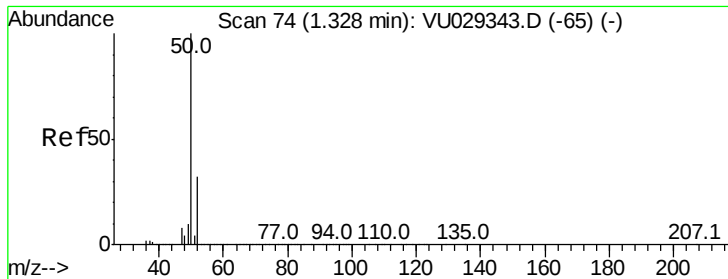
Ion Ratio Lower Upper

85	100		
87	0.0	15.9	47.6#



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 0.031 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

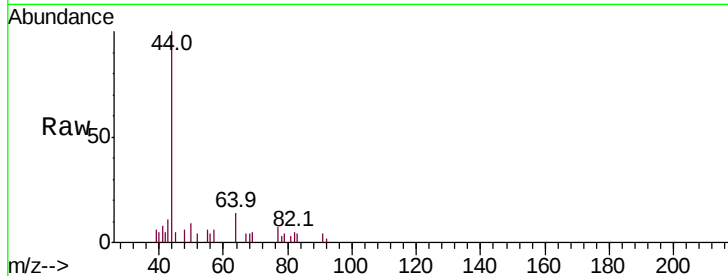
ClientSampled :

Tot Ion: 50 Resp: 582

Ion Ratio Lower Upper

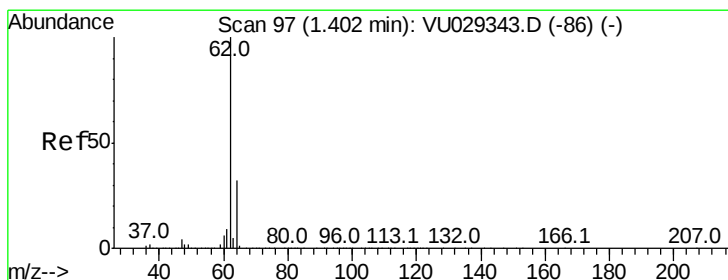
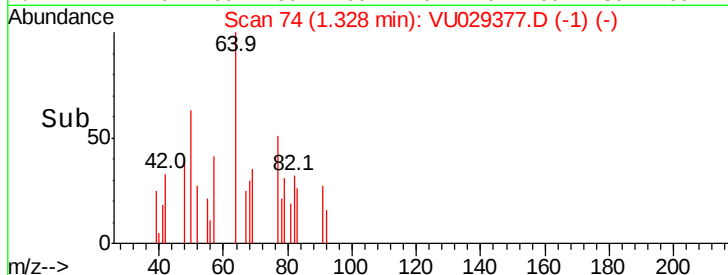
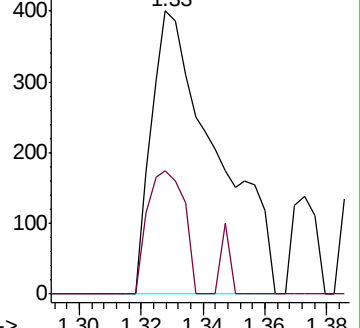
50 100

52 43.5 27.3 40.9#



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 0.001 ug/l

RT: 1.46 min Scan# 115

Delta R.T. 0.06 min

Lab File: VU029377.D

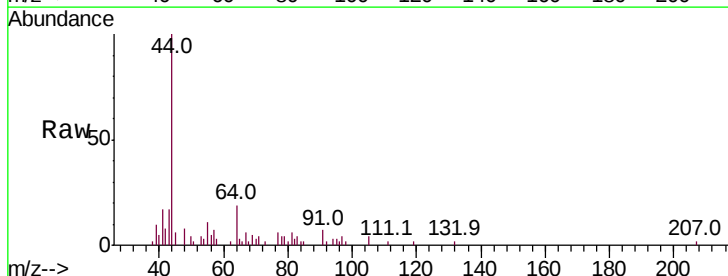
Acq: 08 Feb 2019 14:01

Tgt Ion: 62 Resp: 19

Ion Ratio Lower Upper

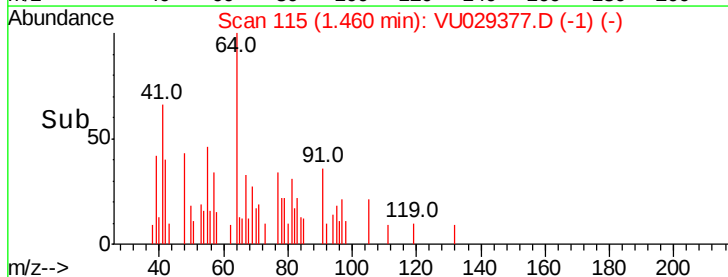
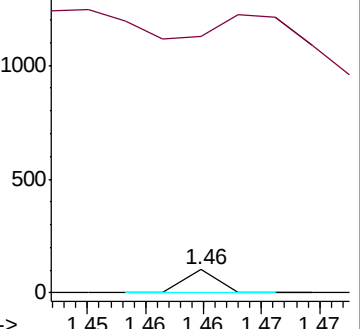
62 100

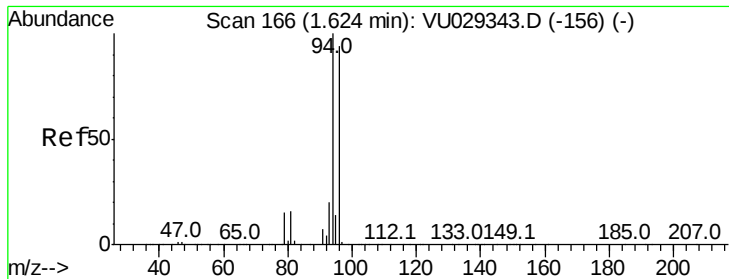
64 0.0 25.2 37.8#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.008 ug/l

RT: 1.57 min Scan# 150

Delta R.T. -0.05 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

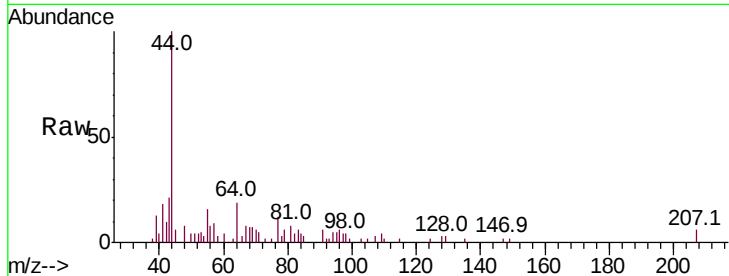
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 94 Resp: 103

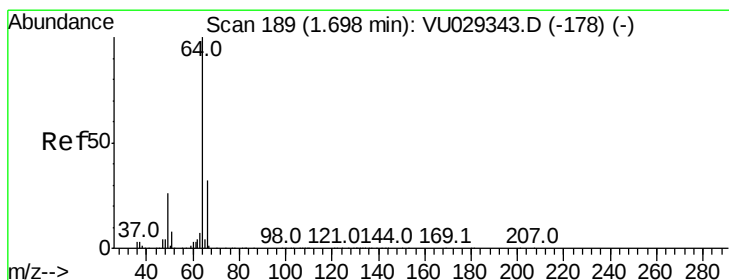
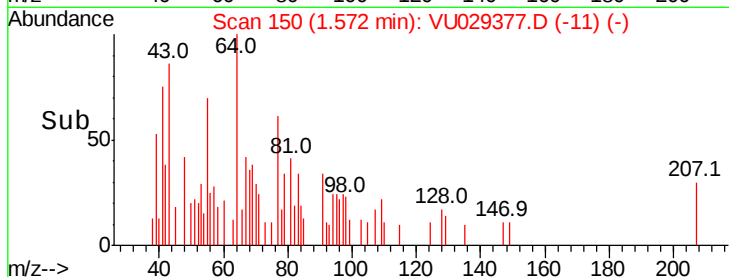
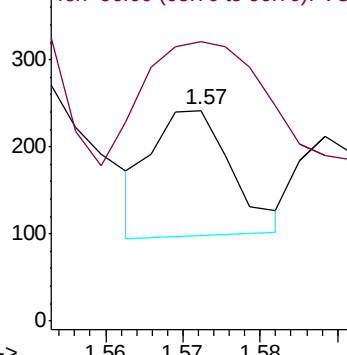
Ion Ratio Lower Upper

94 100

96 80.9 71.7 107.5



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 0.018 ug/l

RT: 1.73 min Scan# 200

Delta R.T. 0.04 min

Lab File: VU029377.D

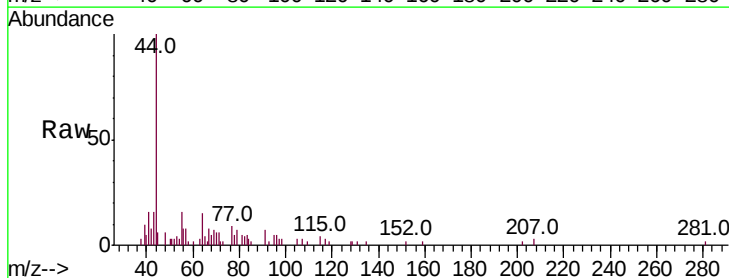
Acq: 08 Feb 2019 14:01

Tgt Ion: 64 Resp: 236

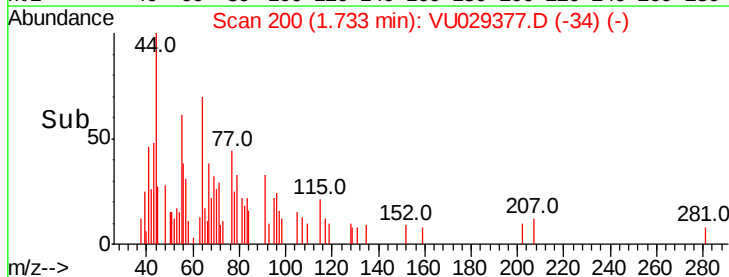
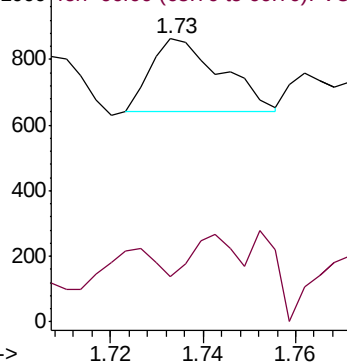
Ion Ratio Lower Upper

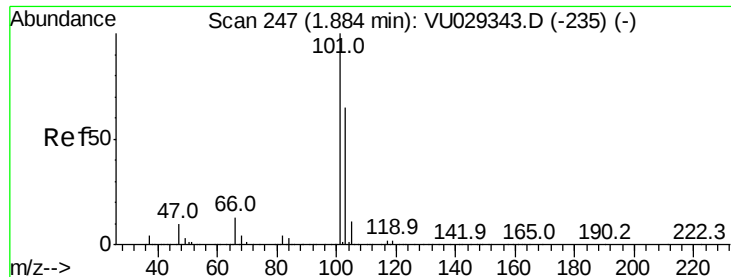
64 100

66 0.0 26.3 39.5#



Abundance Ion 64.00 (63.70 to 64.70): VU0
Ion 66.00 (65.70 to 66.70): VU0



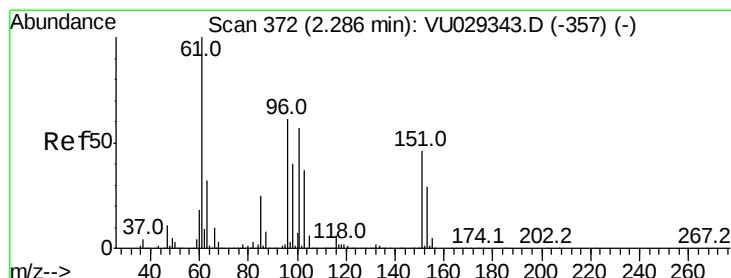
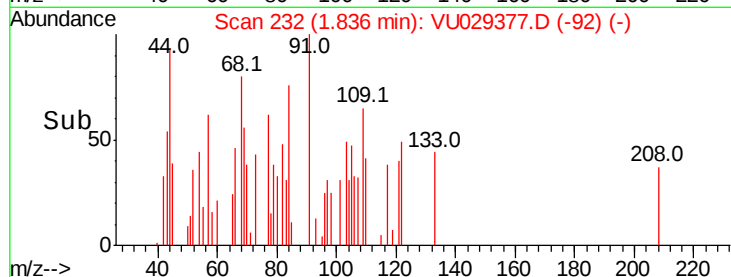
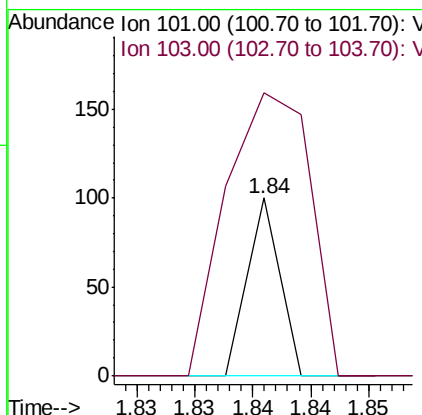
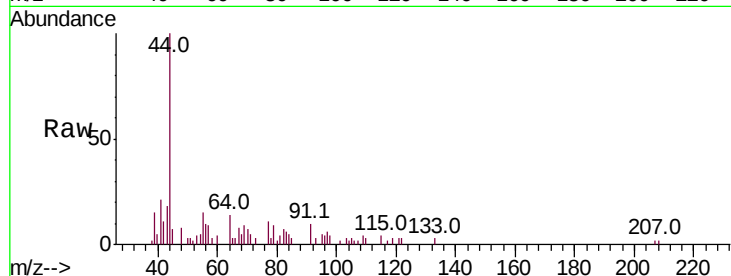


#7

Trichlorofluoromethane
Concen: 0.001 ug/l
RT: 1.84 min Scan# 232
Delta R.T. -0.05 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampled :

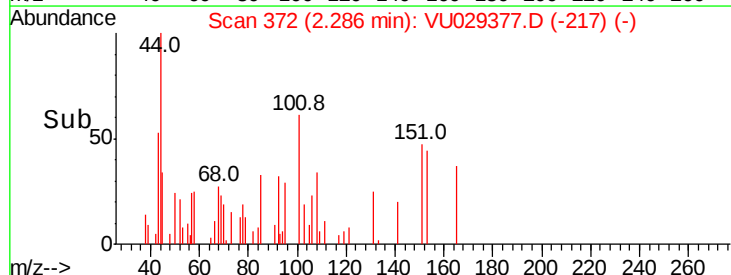
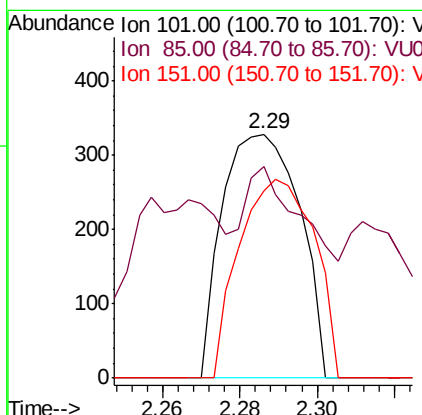
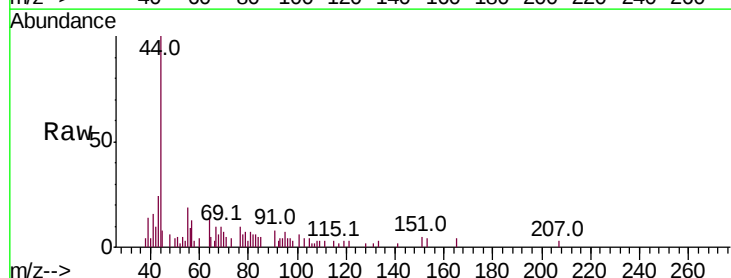
Tot Ion:101 Resp: 19
Ion Ratio Lower Upper
101 100
103 159.0 53.9 80.9#

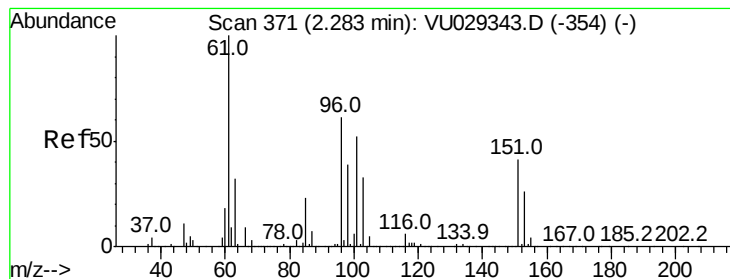


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.028 ug/l
RT: 2.29 min Scan# 372
Delta R.T. -0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion:101 Resp: 456
Ion Ratio Lower Upper
101 100
85 17.1 40.3 60.5#
151 79.2 58.1 87.1





#9

1,1-Dichloroethene

Concen: 0.006 ug/l

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampled :

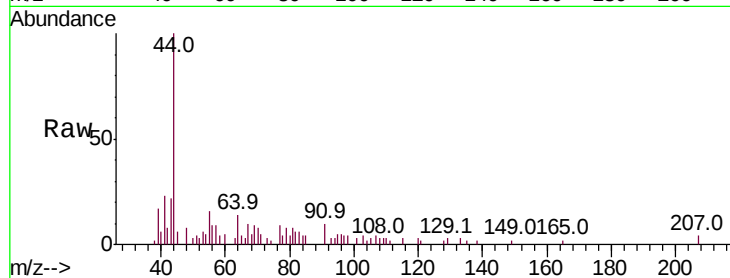
Tot Ion: 96 Resp: 101

Ion Ratio Lower Upper

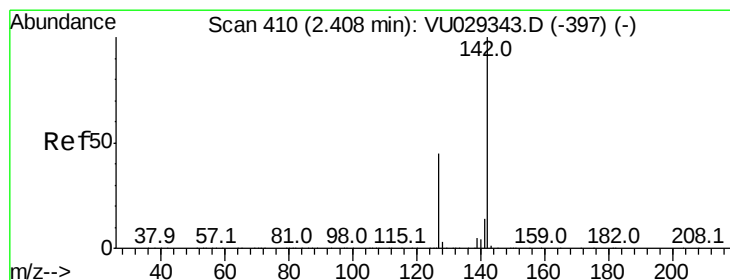
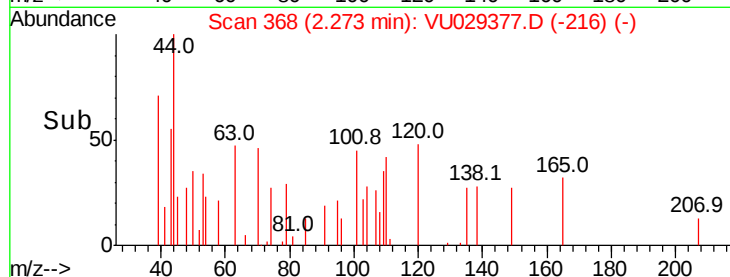
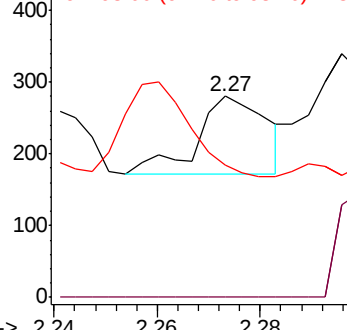
96 100

61 0.0 0.0 641.4

98 14.8 0.0 122.6



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#10

Iodomethane

Concen: 0.316 ug/l

RT: 2.42 min Scan# 413

Delta R.T. 0.01 min

Lab File: VU029377.D

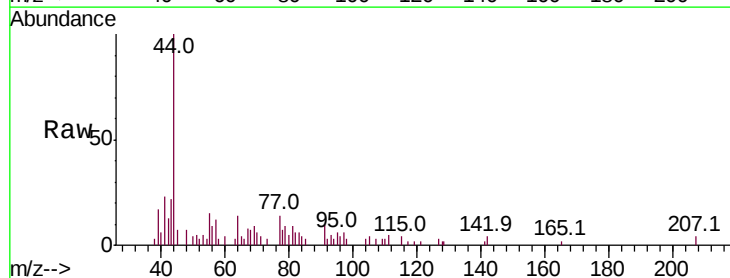
Acq: 08 Feb 2019 14:01

Tgt Ion: 142 Resp: 390

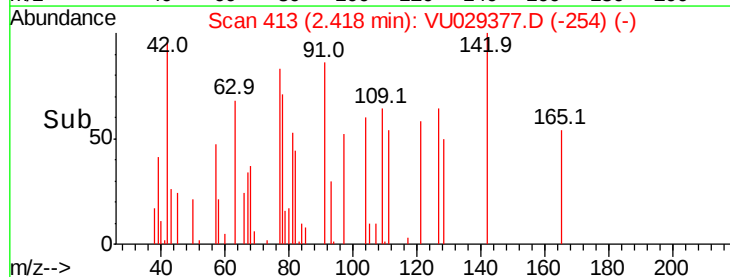
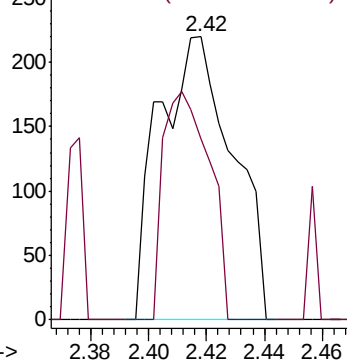
Ion Ratio Lower Upper

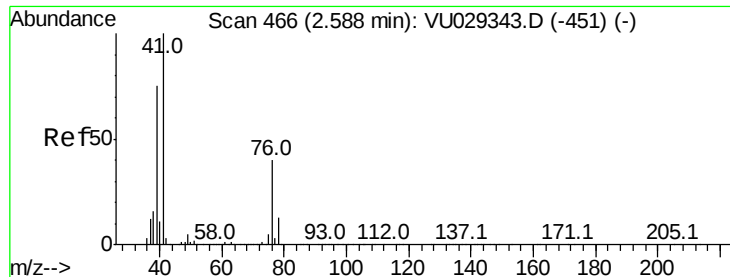
142 100

127 50.3 47.6 71.4



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V

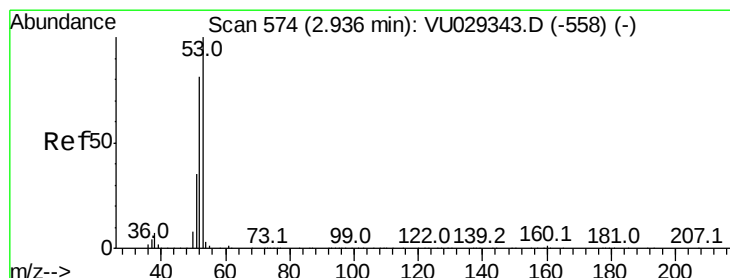
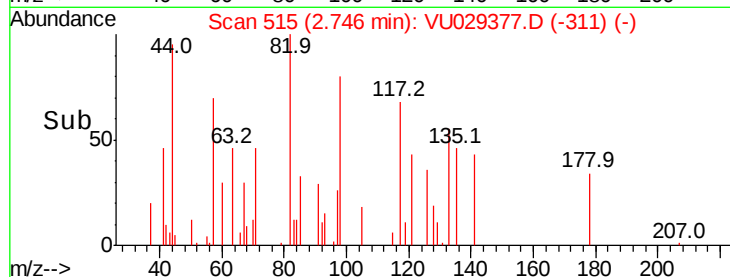
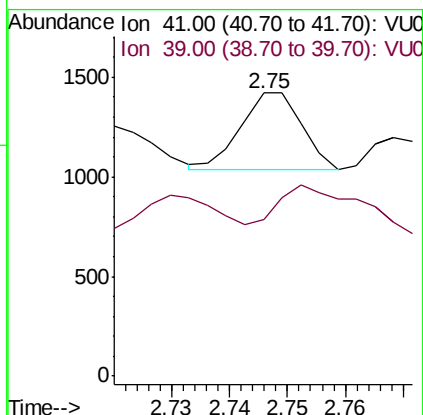
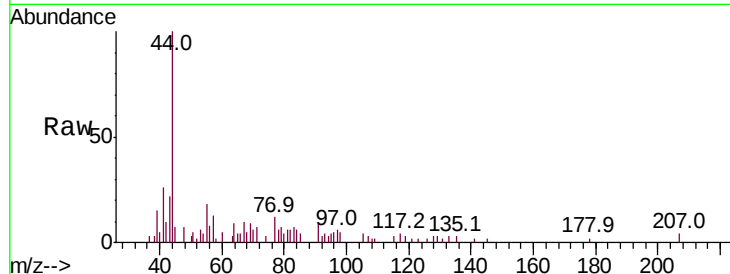




#11
Allvl Chloride
Concen: 0.011 ug/l
RT: 2.75 min Scan# 515
Delta R.T. 0.16 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

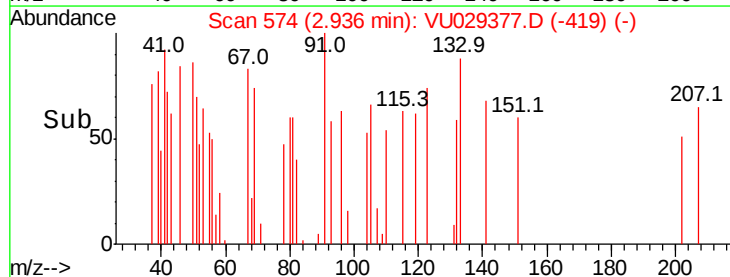
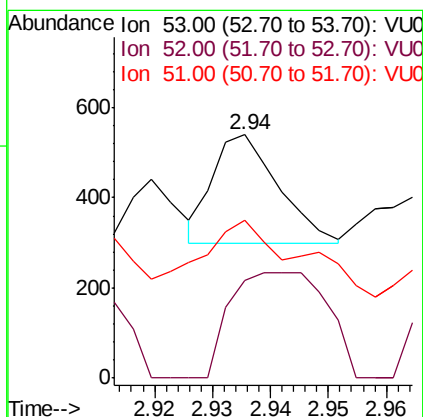
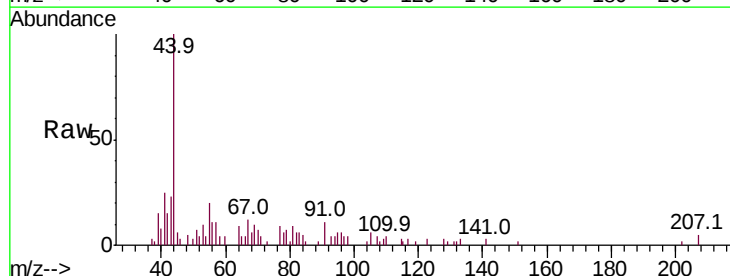
Instrument :
MSVOA_U
ClientSampleId :

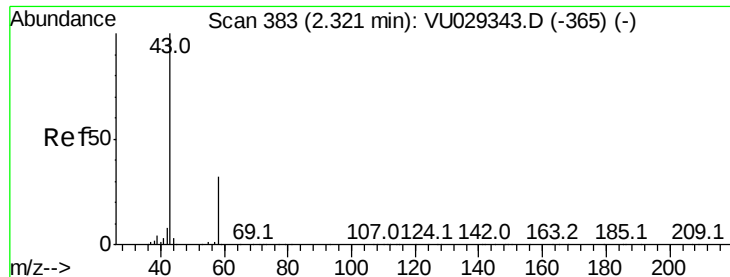
Tot Ion: 41 Resp: 285
Ion Ratio Lower Upper
41 100
39 96.5 67.2 100.8



#12
Acrylonitrile
Concen: 0.053 ug/l
RT: 2.94 min Scan# 574
Delta R.T. -0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 53 Resp: 189
Ion Ratio Lower Upper
53 100
52 142.3 67.6 101.4#
51 101.1 31.0 46.4#





#13

Acetone

Concen: 0.027 ug/l

RT: 2.22 min Scan# 353

Delta R.T. -0.10 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

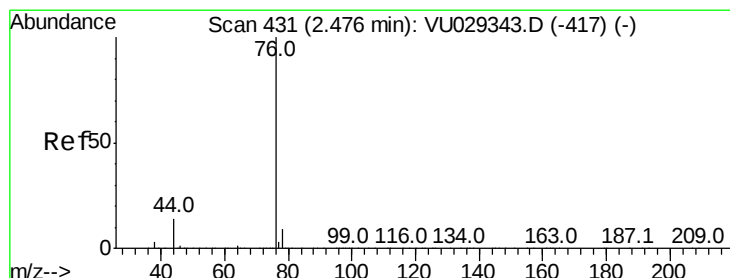
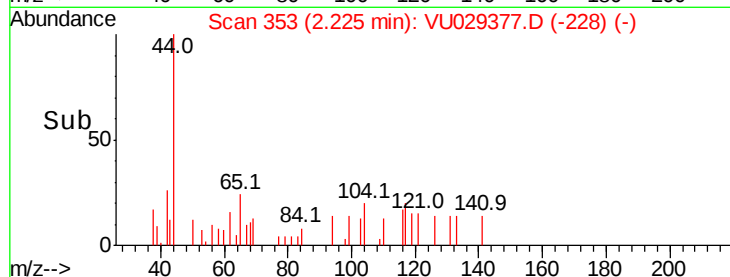
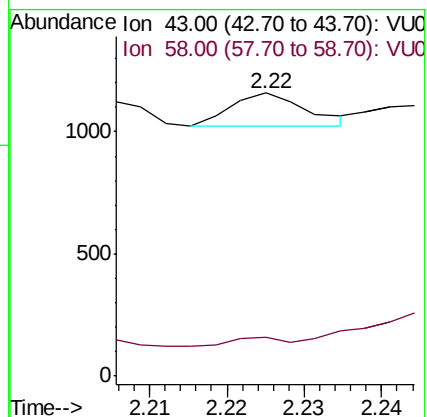
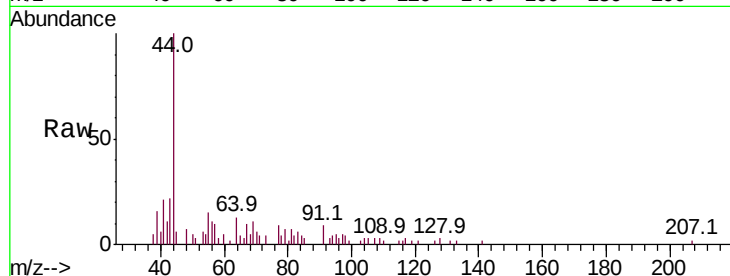
ClientSampleId :

Tot Ion: 43 Resp: 93

Ion Ratio Lower Upper

43 100

58 27.0 19.2 28.8



#14

Carbon Disulfide

Concen: 0.031 ug/l

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029377.D

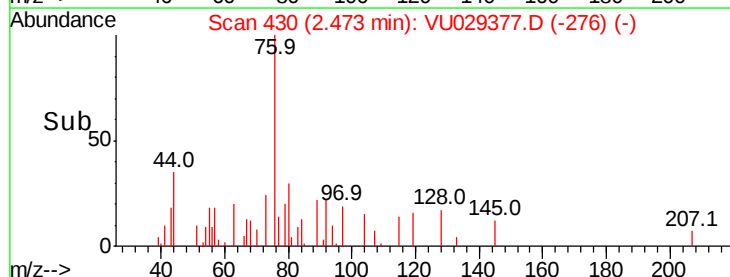
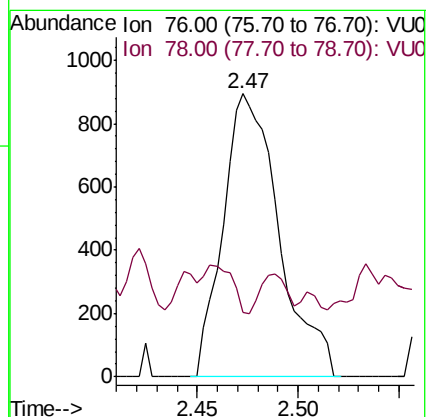
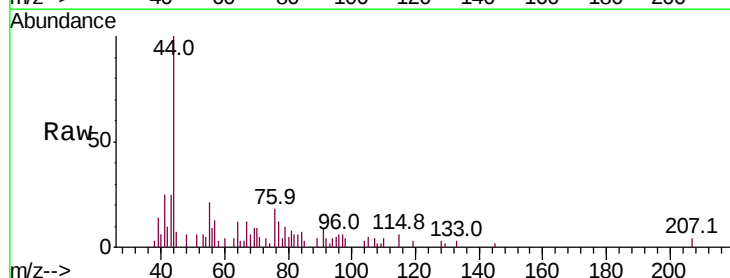
Acq: 08 Feb 2019 14:01

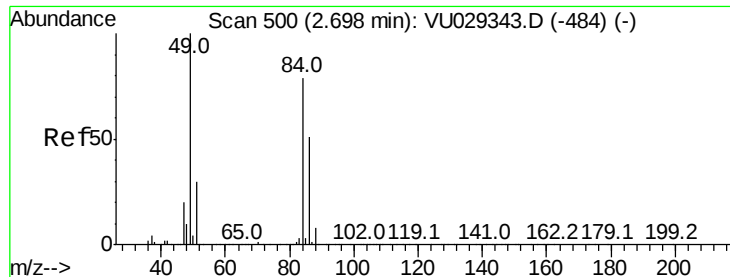
Tgt Ion: 76 Resp: 1731

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

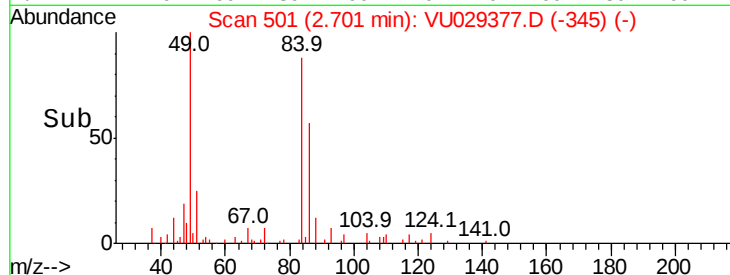
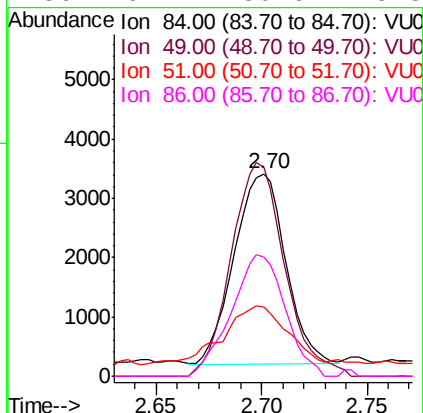
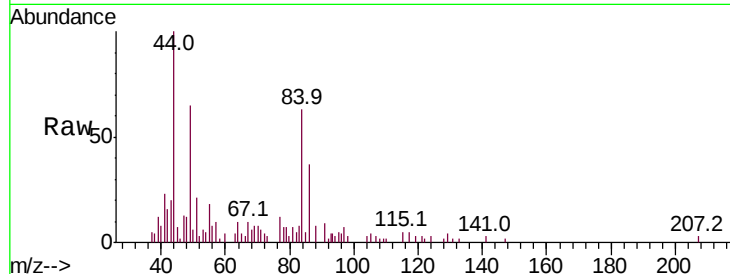




#15
Methvlene Chloride
Concen: 0.283 ug/l
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

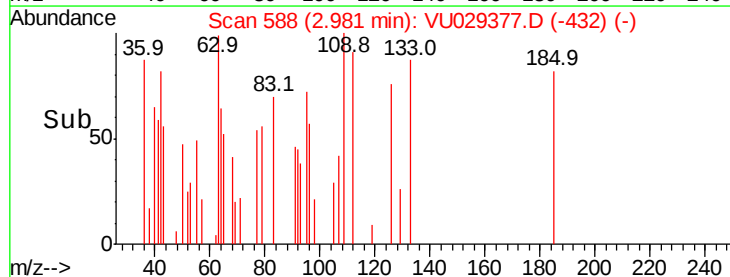
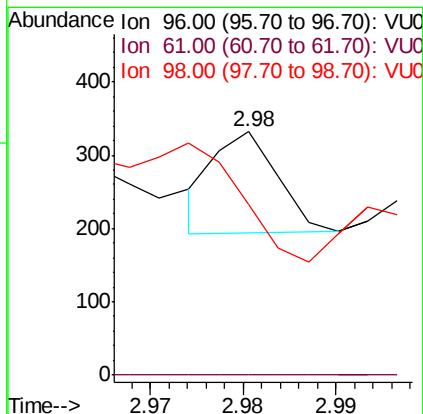
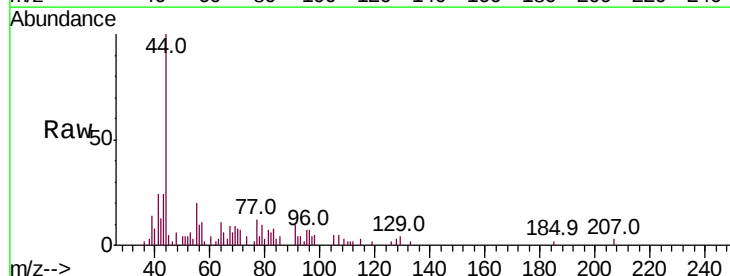
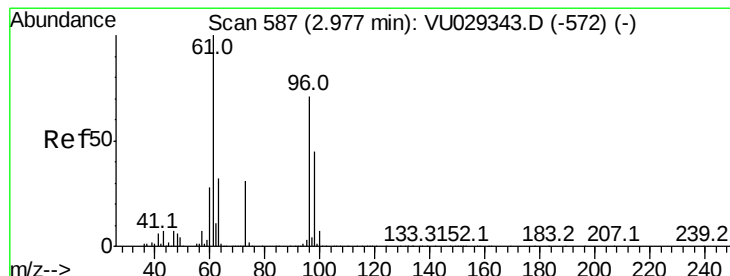
Instrument :
MSVOA_U
ClientSampleId :

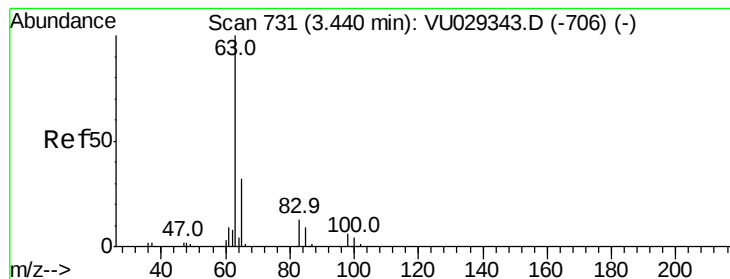
Tot Ion: 84 Resp: 5475
Ion Ratio Lower Upper
84 100
49 110.1 127.0 190.6#
51 27.8 0.0 93.4
86 62.7 50.6 75.8



#16
trans-1,2-Dichloroethene
Concen: 0.004 ug/l
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 96 Resp: 66
Ion Ratio Lower Upper
96 100
61 0.0 140.6 210.8#
98 30.1 49.3 73.9#





#17

1,1-Dichloroethane

Concen: 0.006 ug/l

RT: 3.41 min Scan# 722

Delta R.T. -0.03 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampleId :

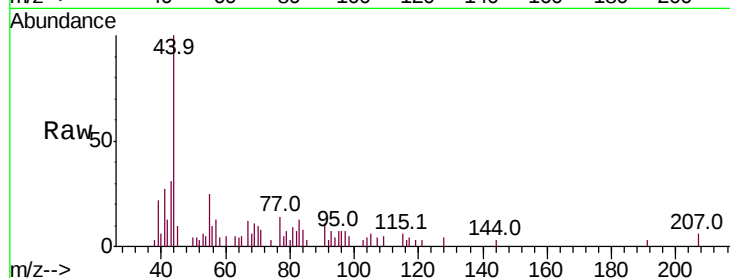
Tot Ion: 63 Resp: 160

Ion Ratio Lower Upper

63 100

98 45.5 2.9 8.8#

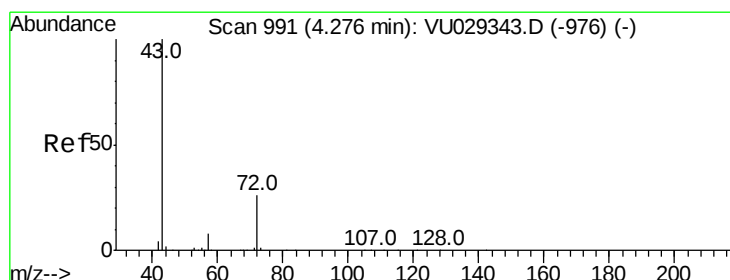
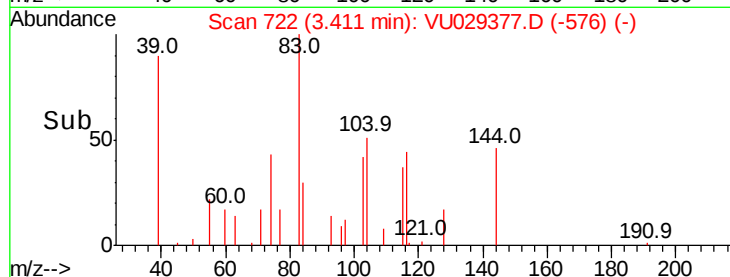
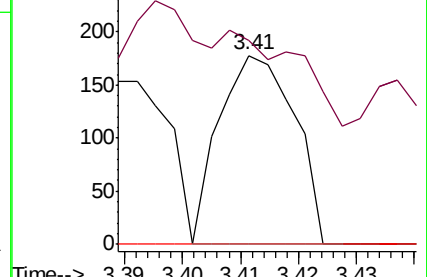
100 0.0 1.7 5.1#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



#18

2-Butanone

Concen: 0.020 ug/l

RT: 4.27 min Scan# 989

Delta R.T. -0.01 min

Lab File: VU029377.D

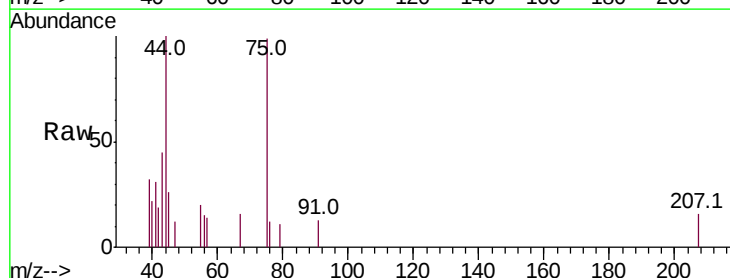
Acq: 08 Feb 2019 14:01

Tgt Ion: 43 Resp: 77

Ion Ratio Lower Upper

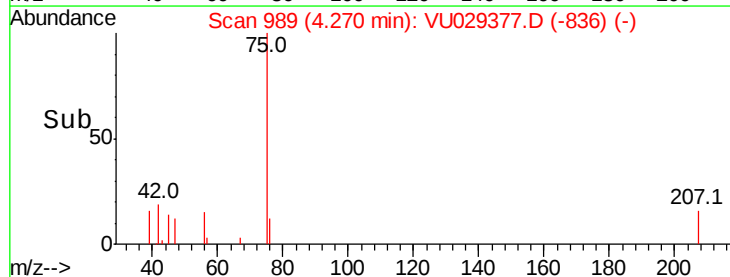
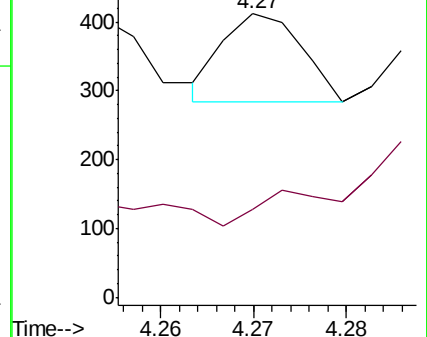
43 100

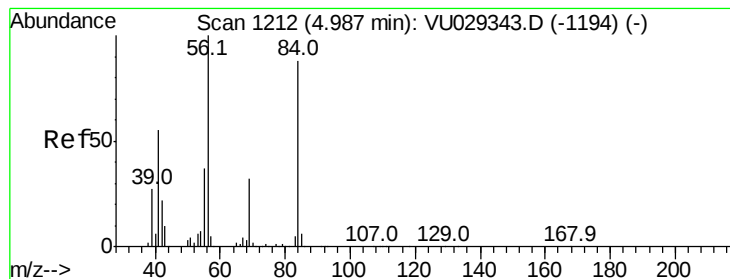
57 0.0 0.0 15.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

Cyclohexane

Concen: 0.007 ug/l

RT: 4.98 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampled :

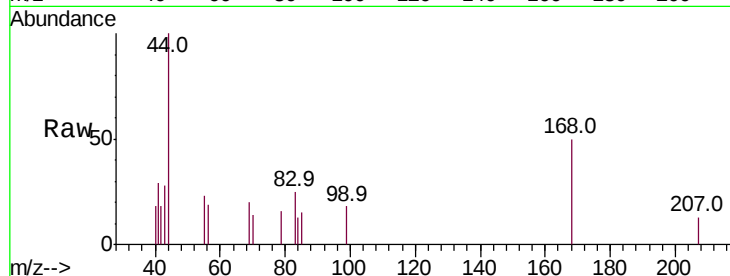
Tot Ion: 56 Resp: 177

Ion Ratio Lower Upper

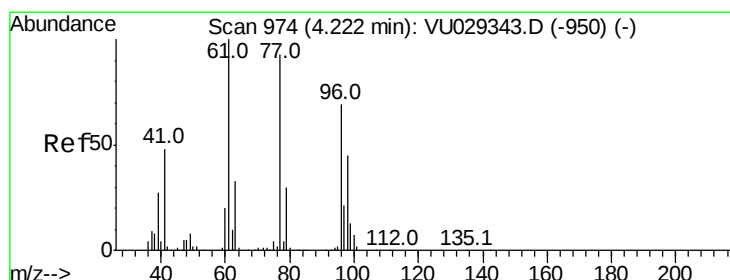
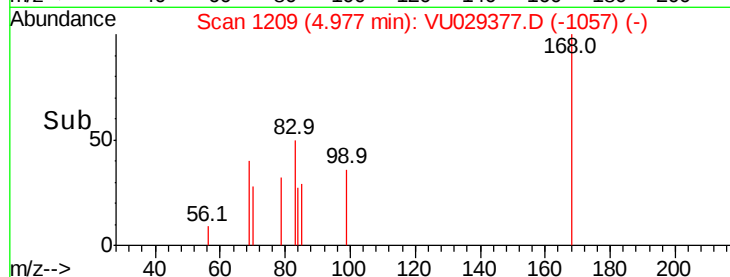
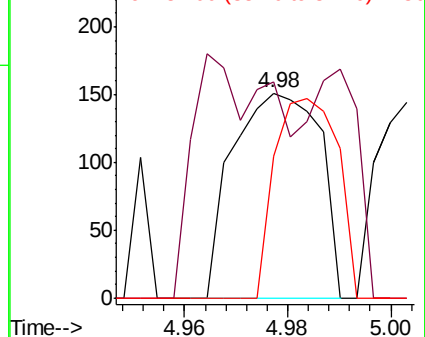
56 100

69 112.4 26.8 40.2#

84 0.0 71.5 107.3#



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



#21

2,2-Dichloropropane

Concen: 0.009 ug/l

RT: 4.23 min Scan# 978

Delta R.T. 0.01 min

Lab File: VU029377.D

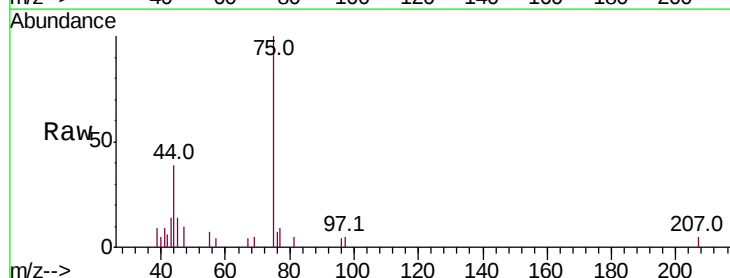
Acq: 08 Feb 2019 14:01

Tgt Ion: 77 Resp: 238

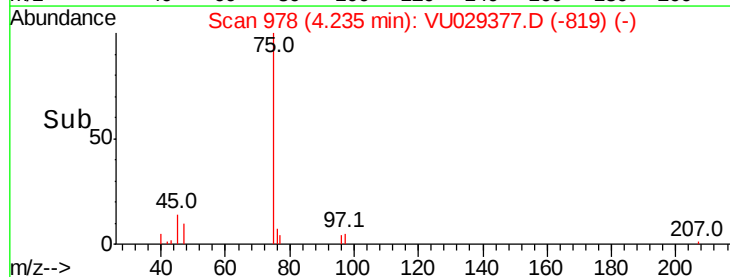
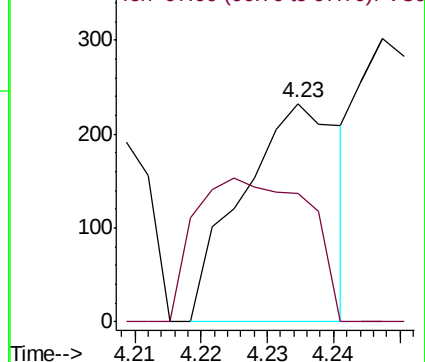
Ion Ratio Lower Upper

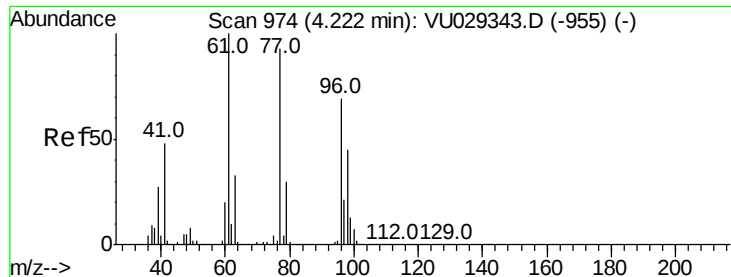
77 100

97 76.5 15.6 23.4#



Abundance Ion 77.00 (76.70 to 77.70): VU0
Ion 97.00 (96.70 to 97.70): VU0



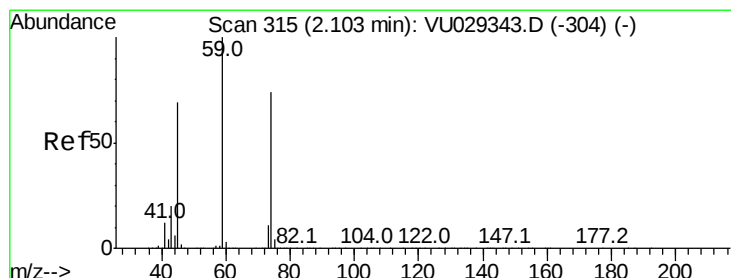
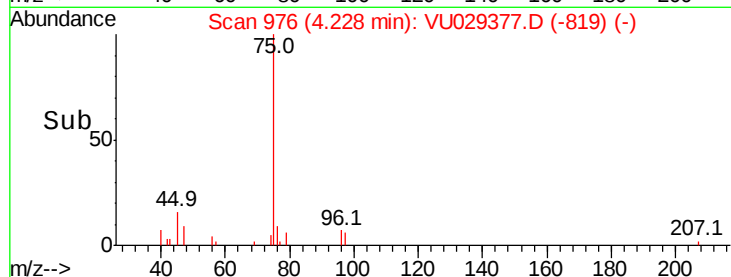
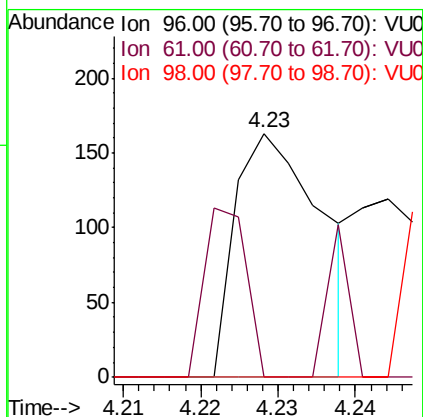
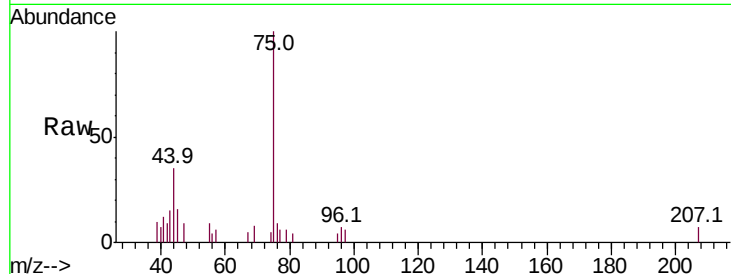


#22

cis-1,2-Dichloroethene
Concen: 0.007 ug/l
RT: 4.23 min Scan# 976
Delta R.T. 0.01 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampleId :

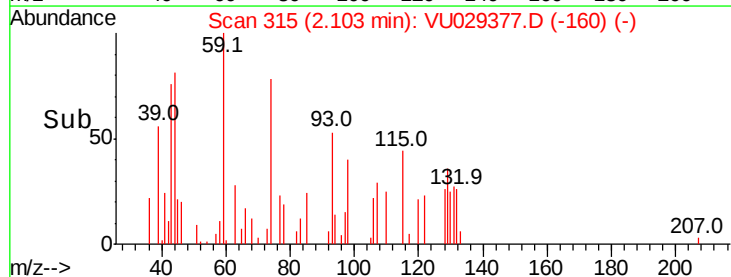
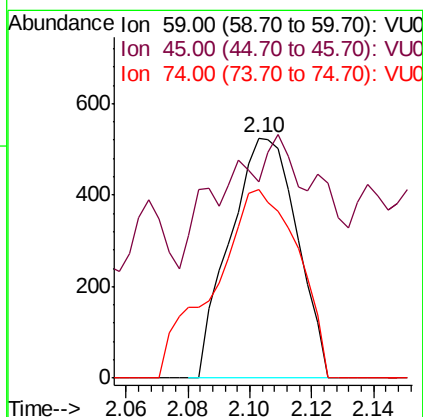
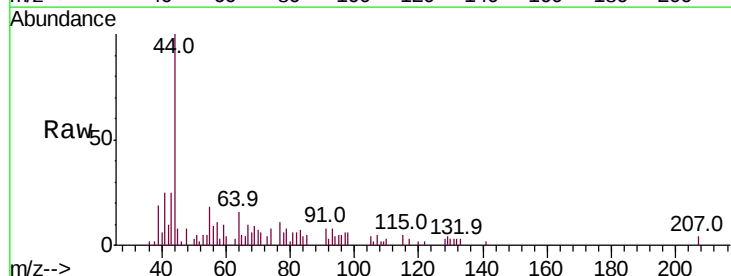
Tot Ion: 96 Resp: 126
Ion Ratio Lower Upper
96 100
61 33.3 0.0 460.0
98 0.0 32.6 97.7#

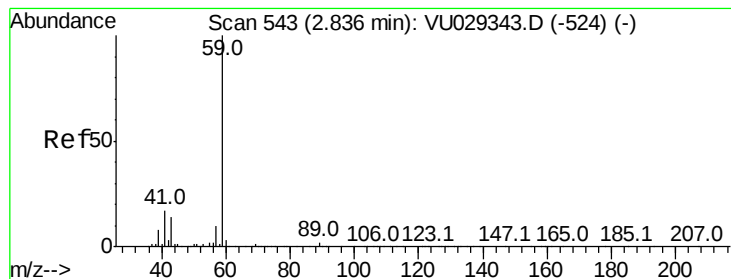


#23

Diethyl Ether
Concen: 0.062 ug/l
RT: 2.10 min Scan# 315
Delta R.T. -0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 59 Resp: 790
Ion Ratio Lower Upper
59 100
45 61.6 64.2 96.4#
74 98.9 55.3 82.9#





#24

tert-Butyl Alcohol

Concen: 0.996 ug/l

RT: 2.83 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

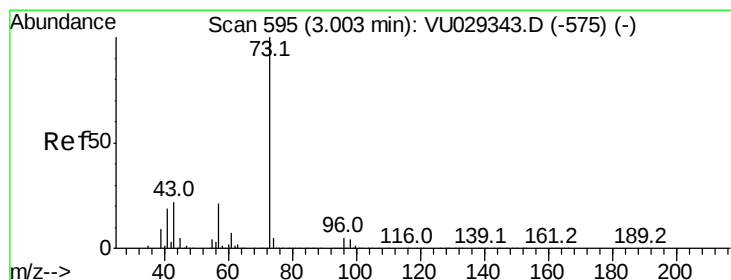
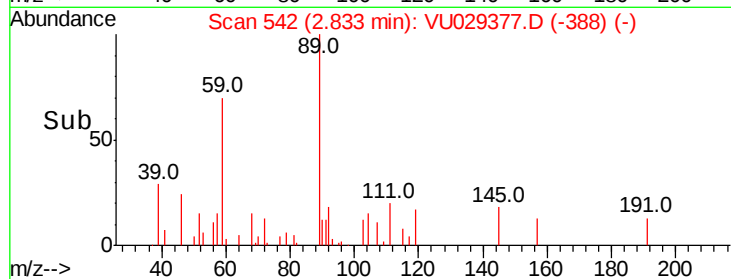
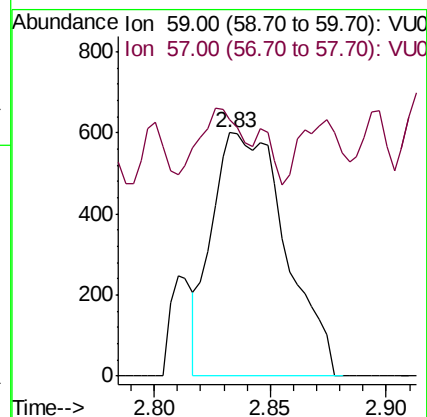
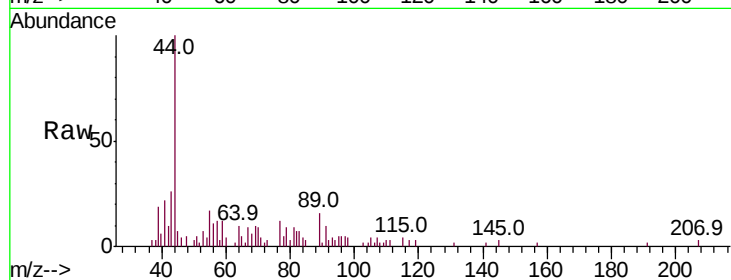
ClientSampleId :

Tot Ion: 59 Resp: 1328

Ion Ratio Lower Upper

59 100

57 16.3 8.8 13.2#



#25

Methyl tert-Butyl Ether

Concen: 0.005 ug/l

RT: 3.00 min Scan# 593

Delta R.T. -0.01 min

Lab File: VU029377.D

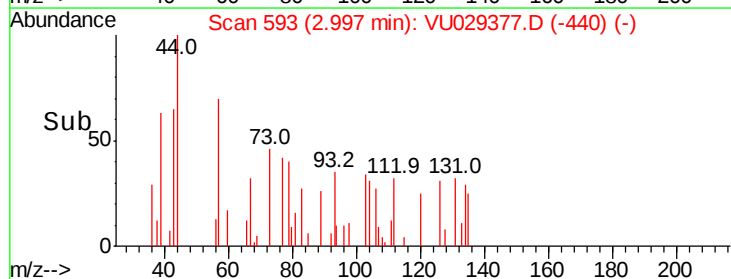
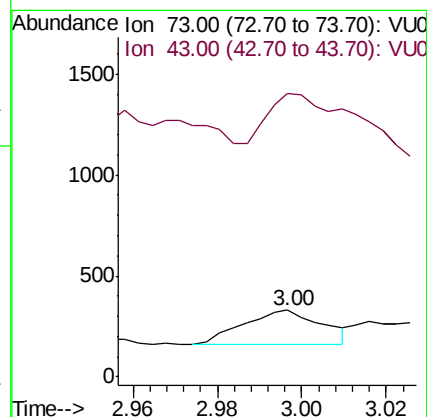
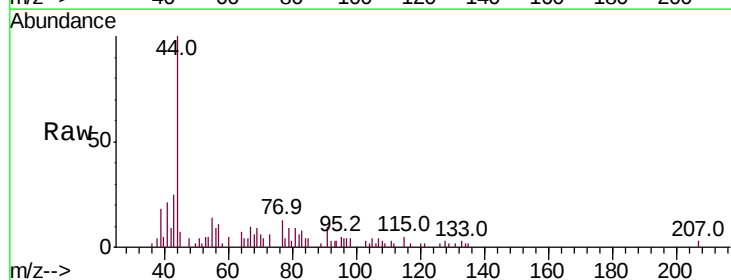
Acq: 08 Feb 2019 14:01

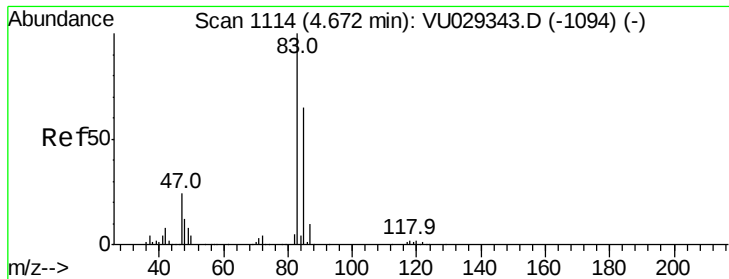
Tgt Ion: 73 Resp: 216

Ion Ratio Lower Upper

73 100

43 332.4 22.1 33.1#





#27

Chloroform

Concen: 18.257 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

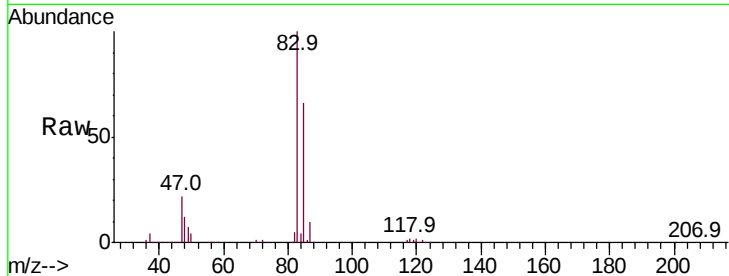
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 502517

Ion Ratio Lower Upper

83 100

85 66.1 0.0 126.6



Abundance Ion 83.00 (82.70 to 83.70): VU029343.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU029343.D (-1094) (-)

250000

200000

150000

100000

50000

0

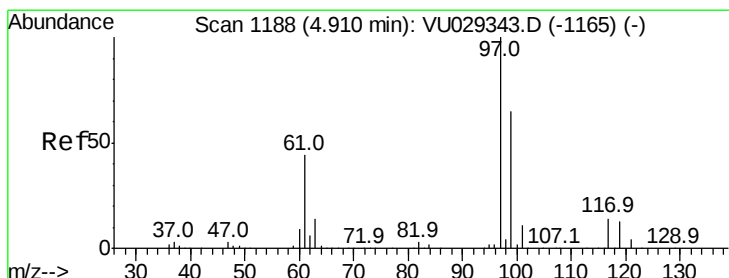
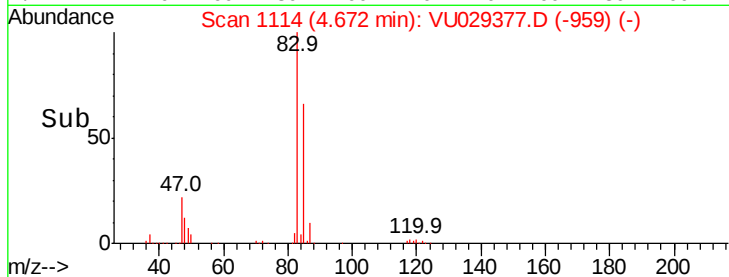
4.60

4.67

4.70

4.80

Time-->



#28

1,1,1-Trichloroethane

Concen: 0.002 ug/l

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

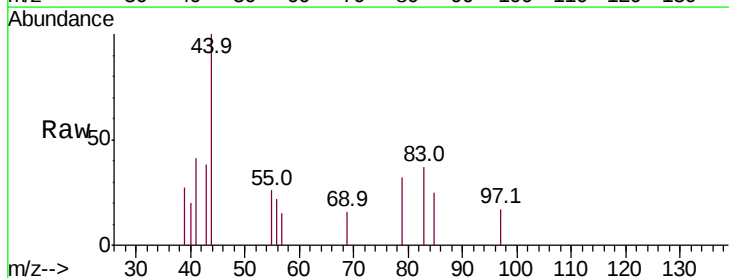
Tgt Ion: 97 Resp: 43

Ion Ratio Lower Upper

97 100

99 0.0 32.4 97.2#

61 0.0 24.4 73.2#



Abundance Ion 97.00 (96.70 to 97.70): VU029343.D (-1165) (-)

Ion 99.00 (98.70 to 99.70): VU029343.D (-1165) (-)

Ion 61.00 (60.70 to 61.70): VU029343.D (-1165) (-)

150

100

50

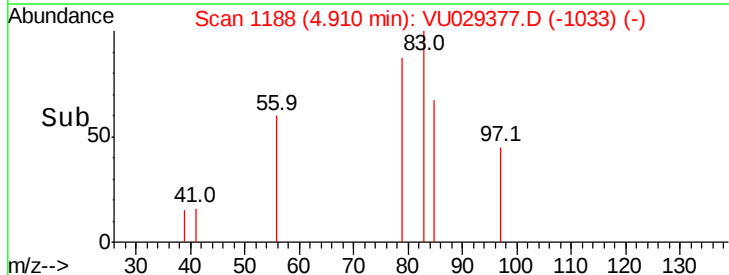
0

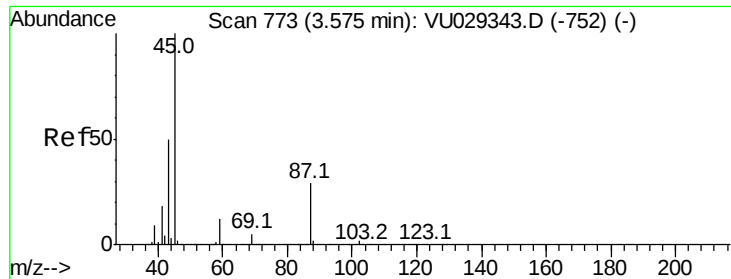
4.90

4.91

4.92

Time-->





#31

Isopropyl Ether

Concen: 0.019 ug/l

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

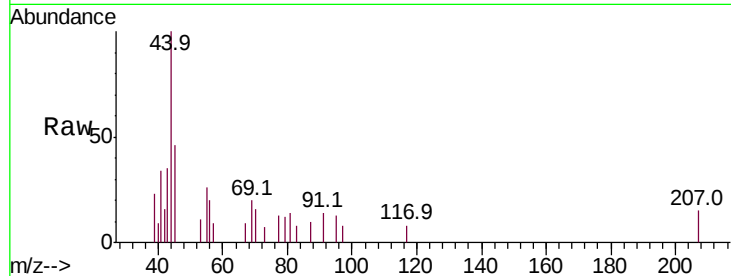
ClientSampleId :

Tot Ion: 45 Resp: 810

Ion Ratio Lower Upper

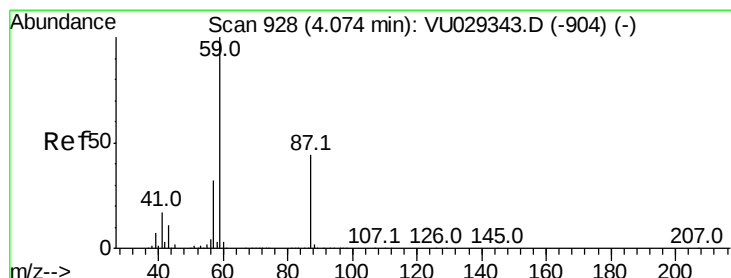
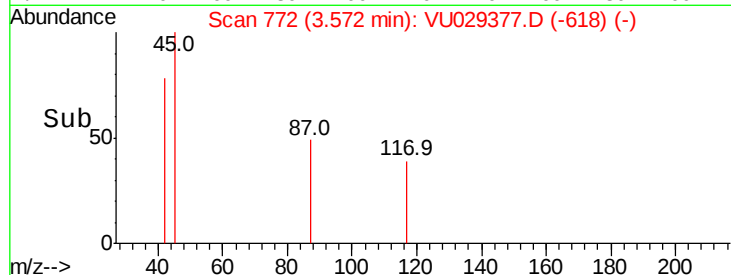
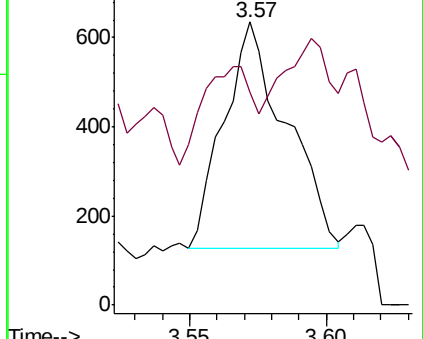
45 100

43 34.6 28.4 85.3



Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0



#32

Ethyl-t-butyl ether

Concen: 0.001 ug/l

RT: 4.08 min Scan# 930

Delta R.T. 0.01 min

Lab File: VU029377.D

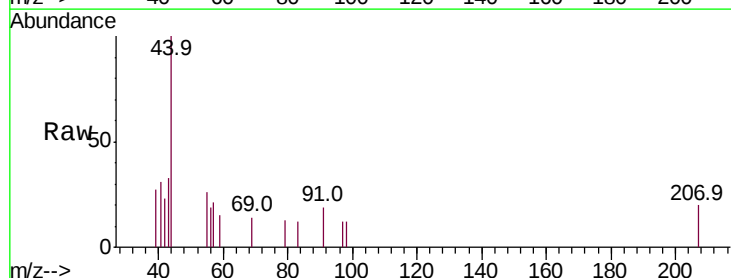
Acq: 08 Feb 2019 14:01

Tgt Ion: 59 Resp: 47

Ion Ratio Lower Upper

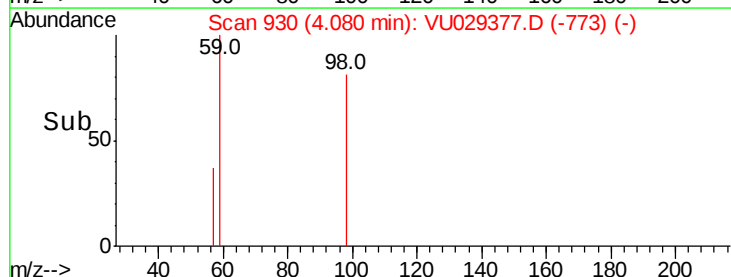
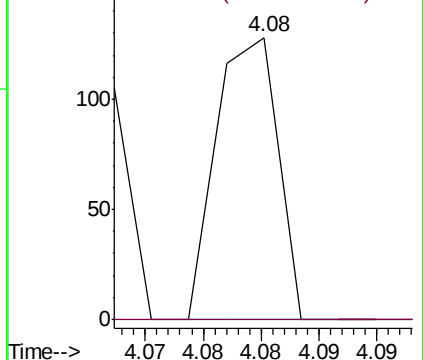
59 100

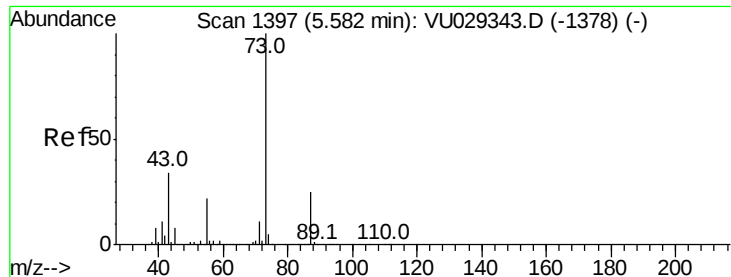
87 0.0 31.1 46.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

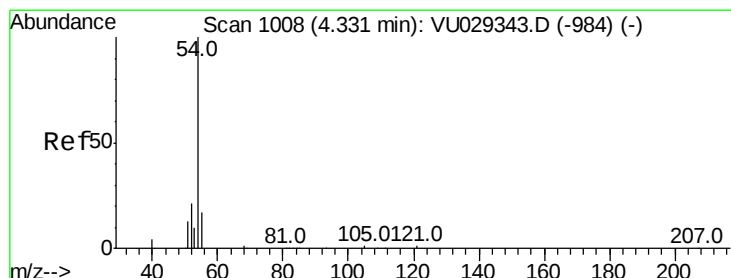
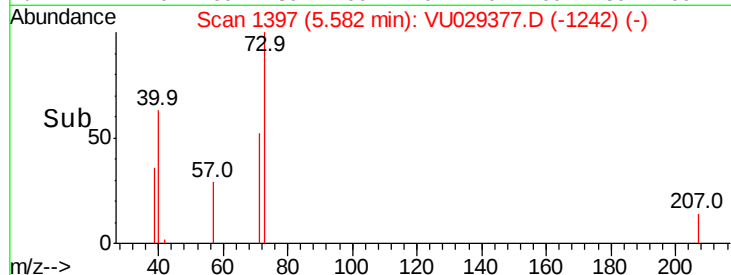
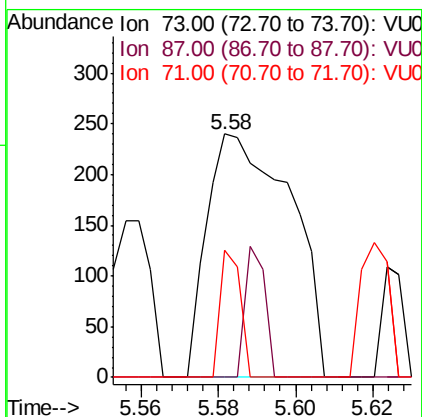
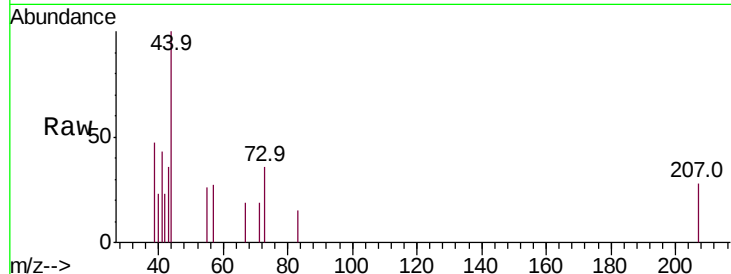




#33
Tert-Butyl methyl ether
Concen: 0.009 ug/l
RT: 5.58 min Scan# 1397
Delta R.T. -0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

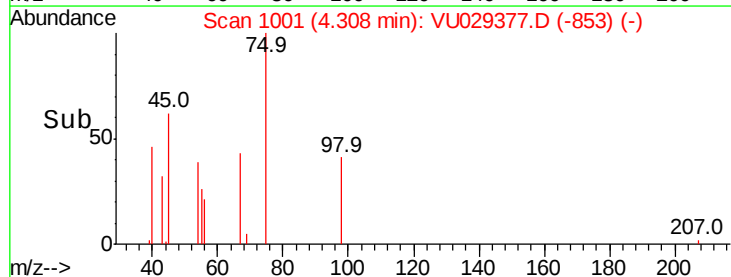
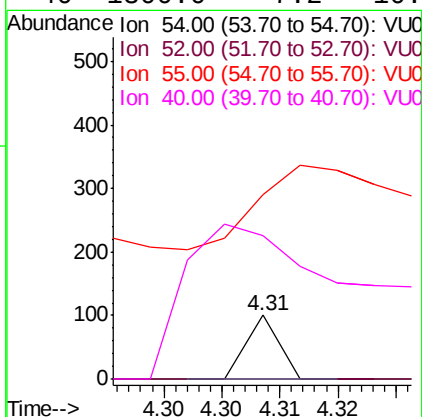
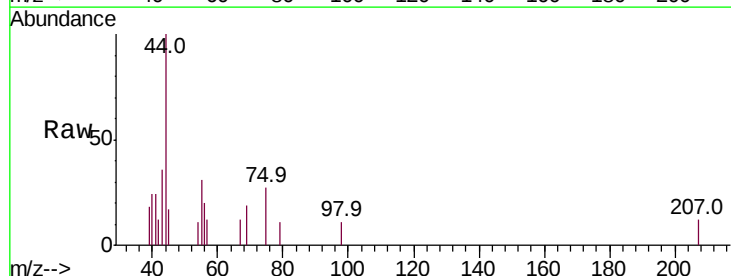
Instrument :
MSVOA_U
ClientSampleId :

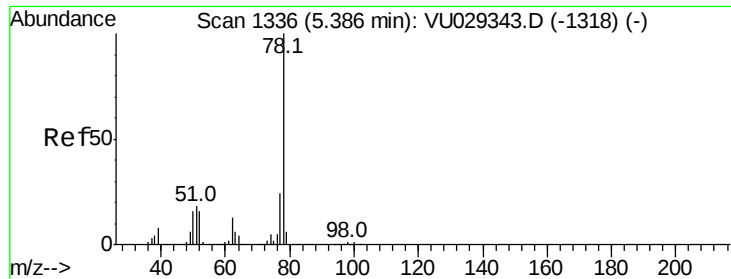
Tot Ion: 73 Resp: 360
Ion Ratio Lower Upper
73 100
87 12.5 19.4 29.0#
71 12.5 9.0 13.4



#34
Propionitrile
Concen: 0.019 ug/l
RT: 4.31 min Scan# 1001
Delta R.T. -0.02 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 54 Resp: 19
Ion Ratio Lower Upper
54 100
52 0.0 18.9 28.3#
55 1005.3 15.1 22.7#
40 1300.0 7.2 10.8#





#35

Benzene

Concen: 0.002 ug/l

RT: 5.40 min Scan# 1339

Delta R.T. 0.01 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

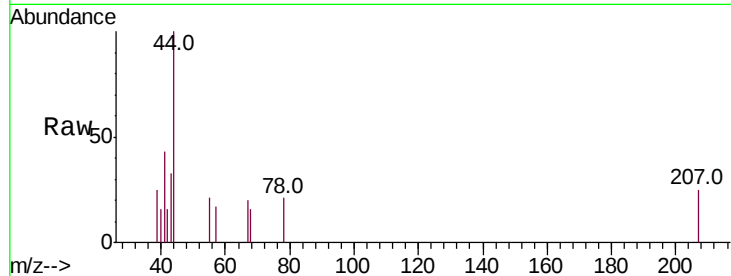
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 78 Resp: 144

Ion Ratio Lower Upper

78 100

77 0.0 19.8 29.8#



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

200

150

100

50

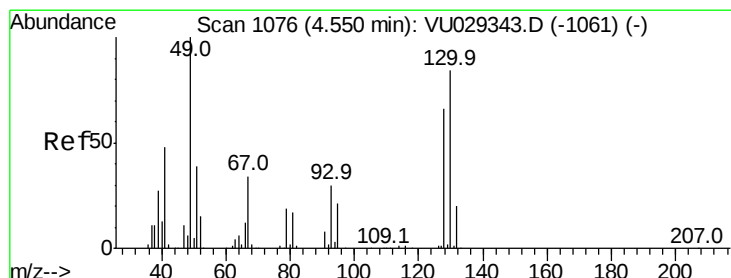
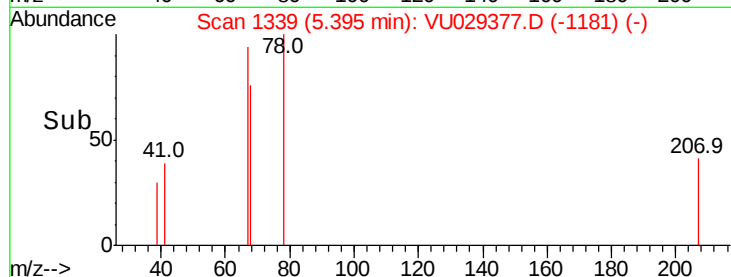
0

5.38

5.40

5.42

Time-->



#39

Methacrylonitrile

Concen: 0.042 ug/l

RT: 4.55 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Tgt Ion: 41 Resp: 220

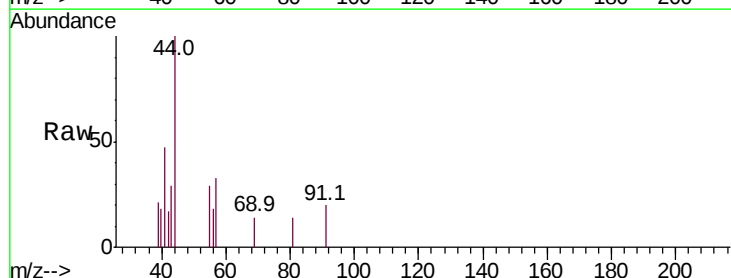
Ion Ratio Lower Upper

41 100

67 0.0 50.1 75.1#

39 84.5 47.9 71.9#

52 0.0 24.8 37.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

500

400

300

200

100

0

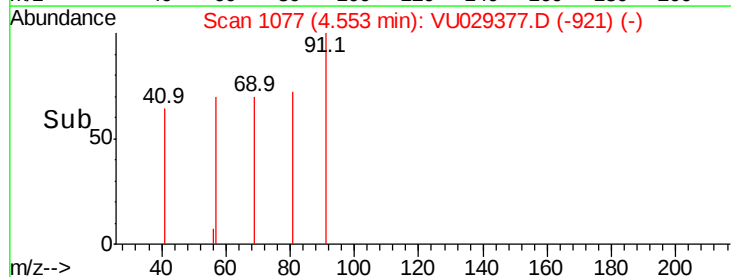
4.54

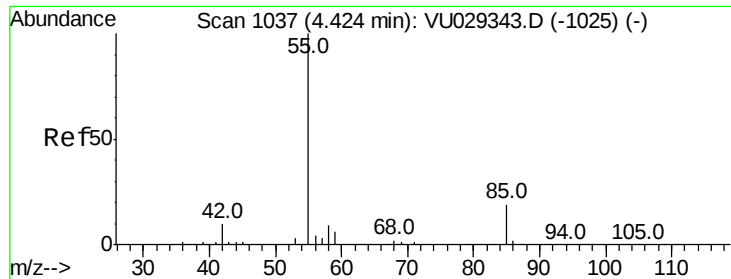
4.55

4.56

4.58

Time-->

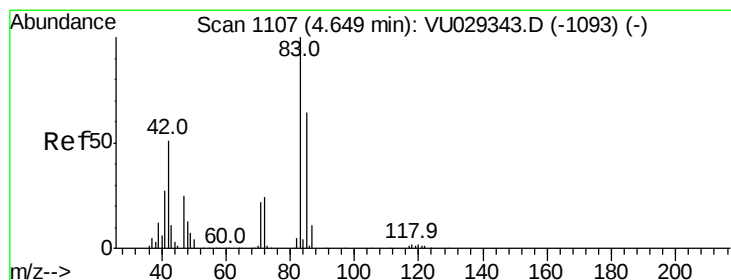
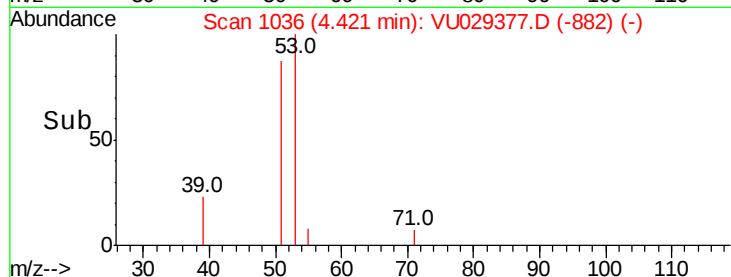
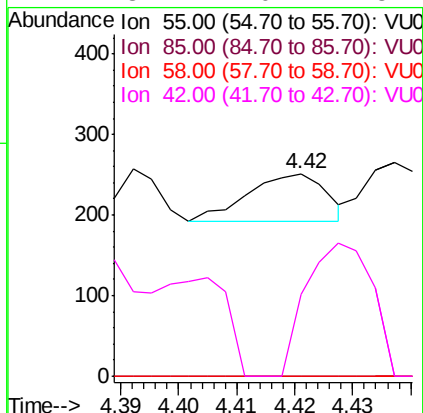
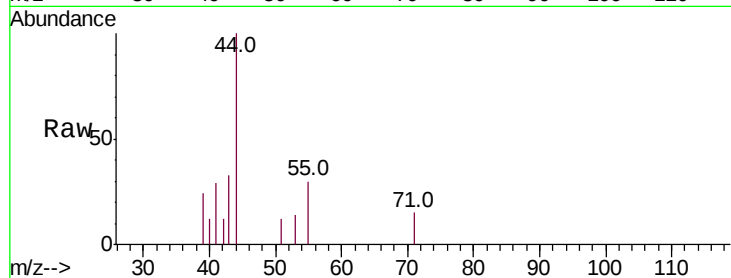




#40
Methvl acrvlate
Concen: 0.007 ug/l
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

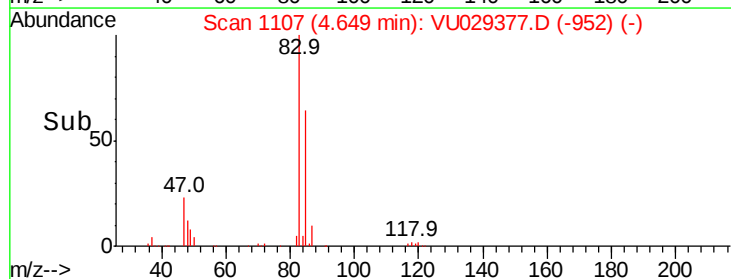
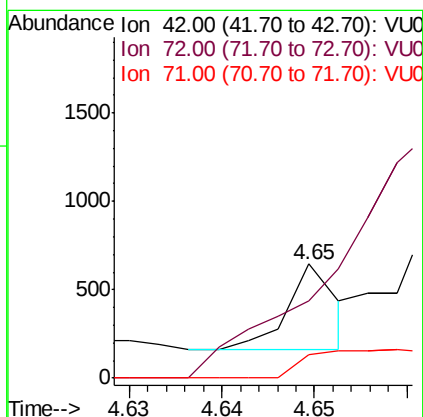
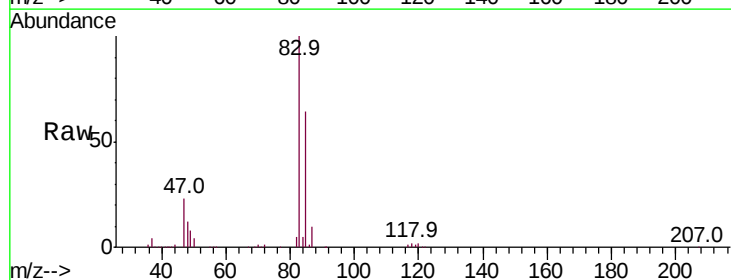
Instrument :
MSVOA_U
ClientSampleId :

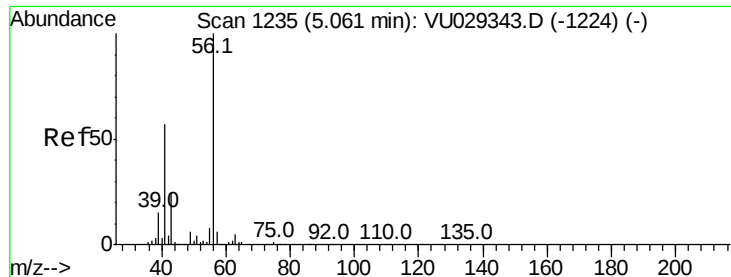
Tot Ion: 55 Resp: 56
Ion Ratio Lower Upper
55 100
85 0.0 11.3 16.9#
58 0.0 6.2 9.4#
42 232.1 10.1 15.1#



#41
Tetrahydrofuran
Concen: 0.068 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 42 Resp: 179
Ion Ratio Lower Upper
42 100
72 0.0 33.1 49.7#
71 0.0 30.2 45.2#





#42

1-Chlorobutane

Concen: 0.004 ug/l

RT: 5.10 min Scan# 1247

Delta R.T. 0.04 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

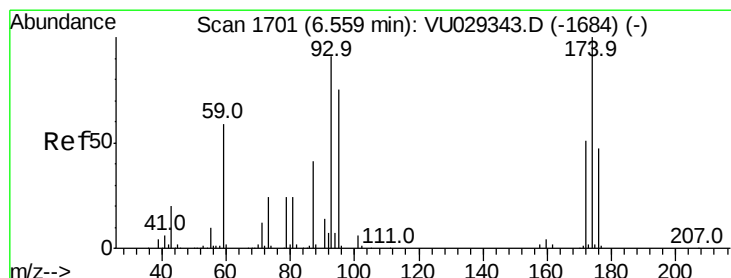
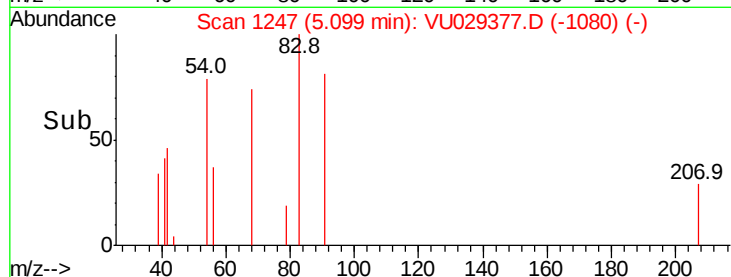
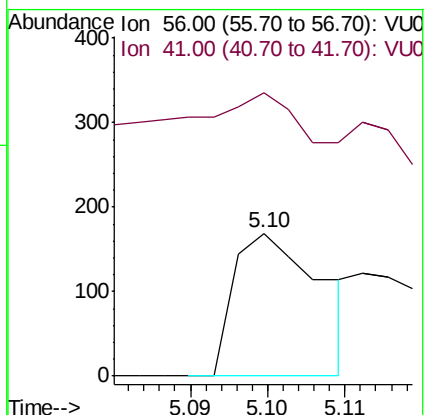
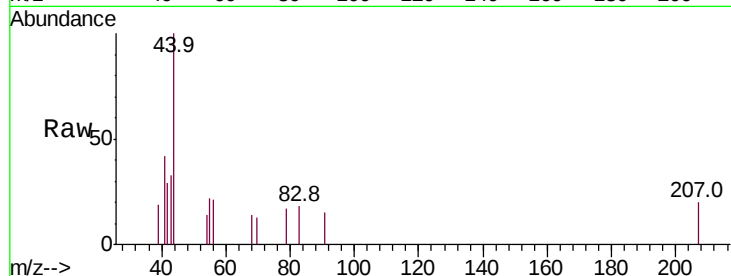
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

41 92.4 31.3 93.8



#43

Dibromomethane

Concen: 3.612 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. 0.20 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

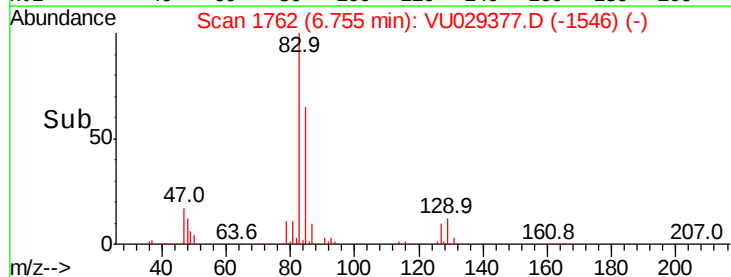
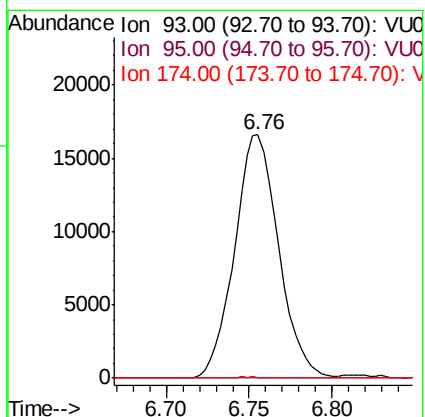
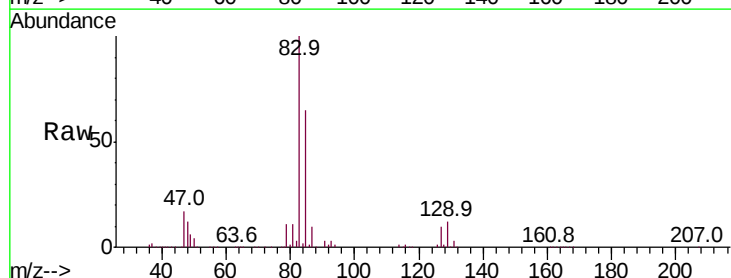
Tgt Ion: 93 Resp: 30667

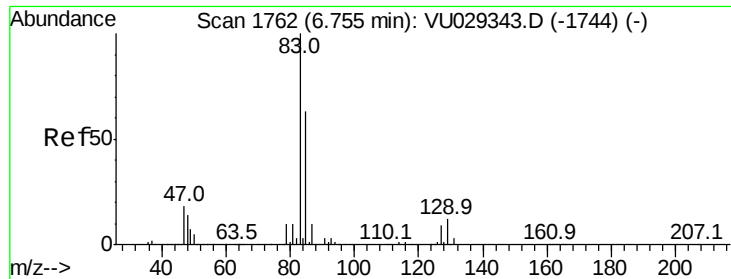
Ion Ratio Lower Upper

93 100

95 0.1 68.2 102.2#

174 0.0 77.6 116.4#





#44

Bromodichloromethane

Concen: 44.181 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampleId :

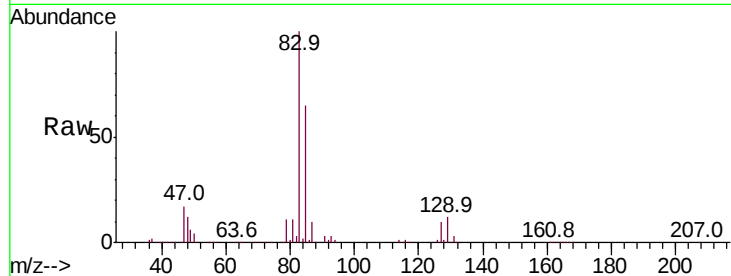
Tot Ion: 83 Resp: 955809

Ion Ratio Lower Upper

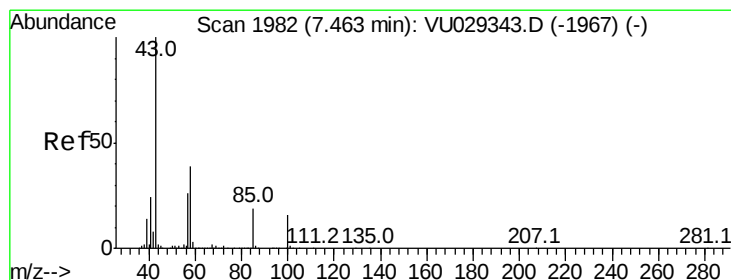
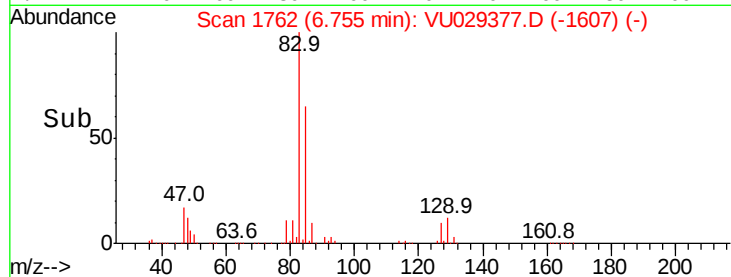
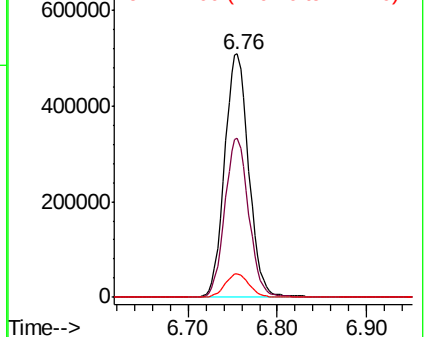
83 100

85 65.4 49.2 73.8

127 9.7 7.0 10.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 127.00 (126.70 to 127.70): V



#45

4-Methyl-2-Pentanone

Concen: 0.021 ug/l

RT: 7.45 min Scan# 1978

Delta R.T. -0.01 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

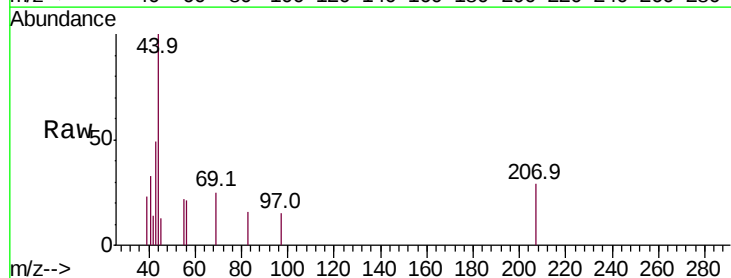
Tgt Ion: 43 Resp: 206

Ion Ratio Lower Upper

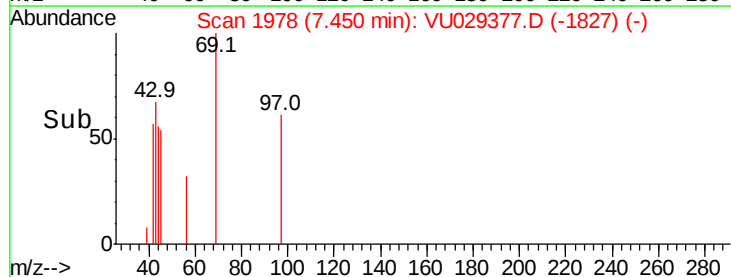
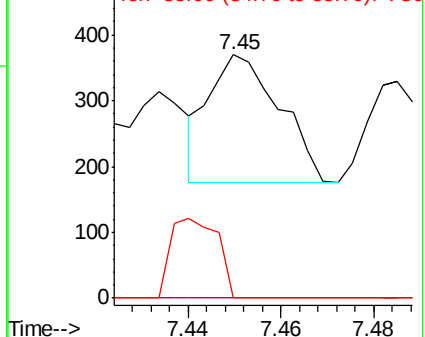
43 100

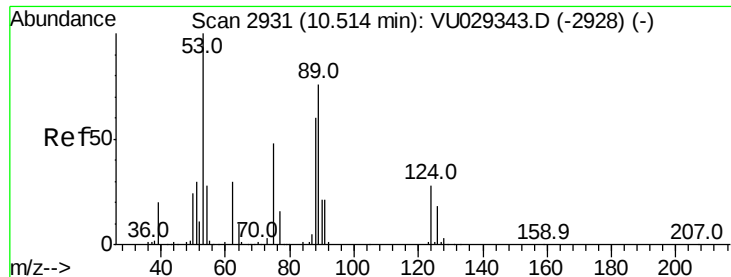
58 0.0 17.6 52.8#

85 0.0 12.3 18.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

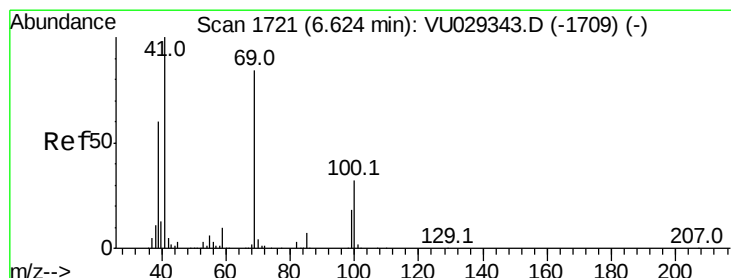
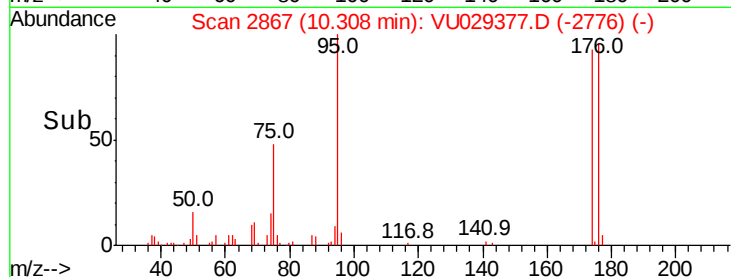
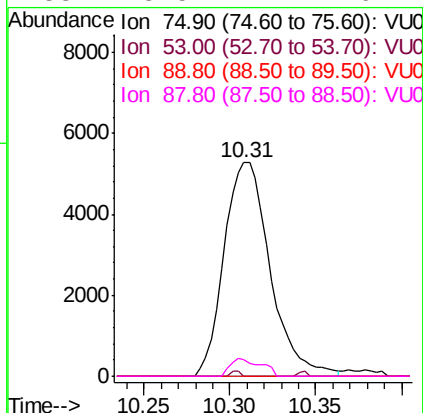
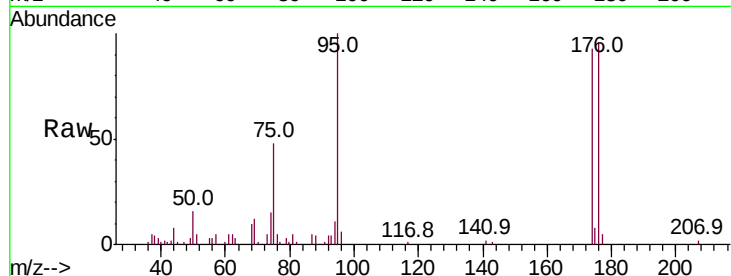




#46
t-1,4-Dichloro-2-butene
Concen: 2.027 ug/l
RT: 10.31 min Scan# 2867
Delta R.T. -0.21 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

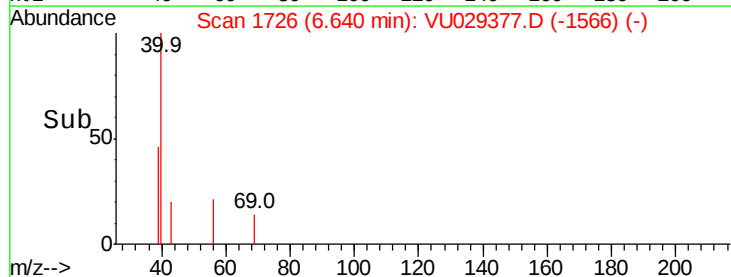
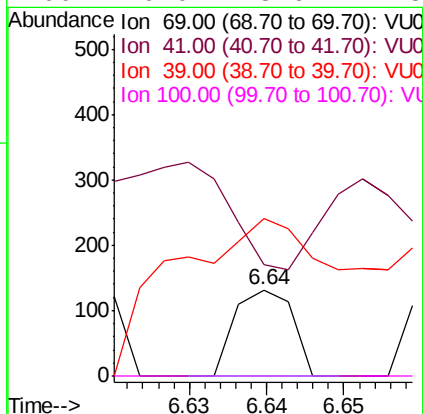
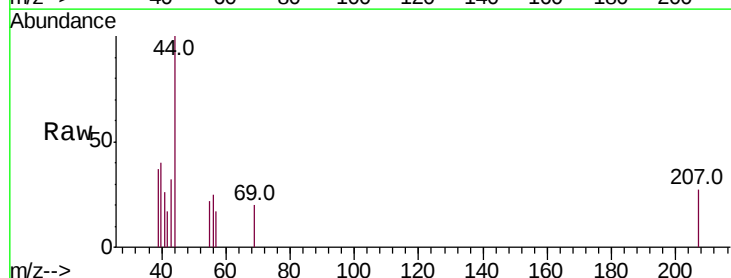
Instrument :
MSVOA_U
ClientSampleId :

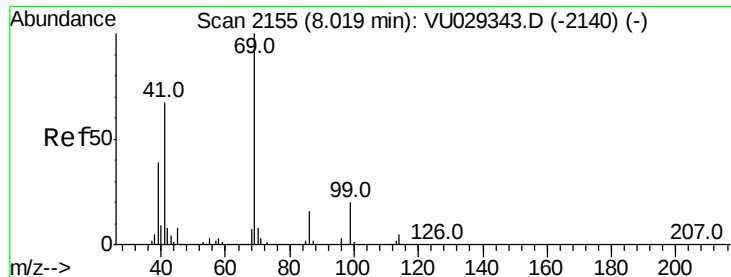
Tot Ion: 75 Resp: 9827
Ion Ratio Lower Upper
75 100
53 0.5 78.2 117.4#
89 0.0 44.2 66.4#
88 5.5 41.4 62.2#



#47
Methyl methacrylate
Concen: 0.009 ug/l
RT: 6.64 min Scan# 1726
Delta R.T. 0.02 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 69 Resp: 69
Ion Ratio Lower Upper
69 100
41 260.9 0.0 296.2
39 469.6 71.2 106.8#
100 0.0 28.6 42.8#





#48

Ethyl methacrylate

Concen: 0.007 ug/l

RT: 8.04 min Scan# 2161

Delta R.T. 0.02 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

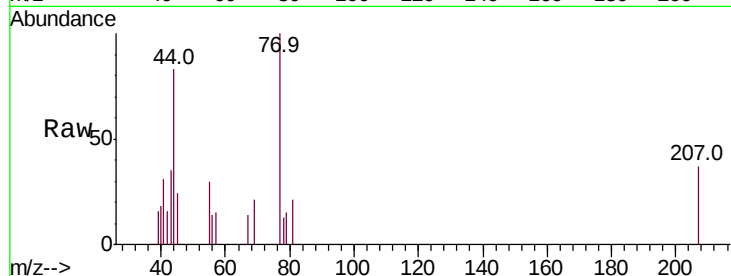
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 69 Resp: 107

Ion Ratio Lower Upper

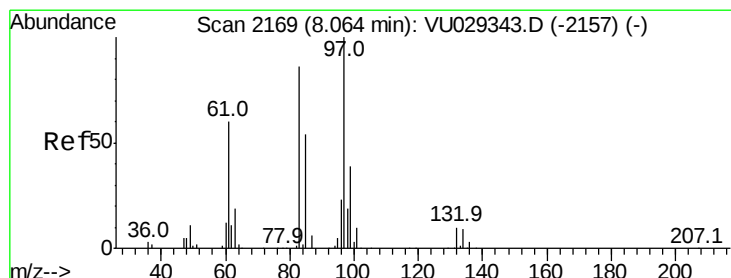
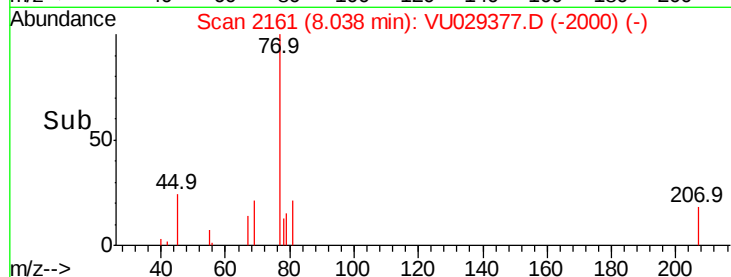
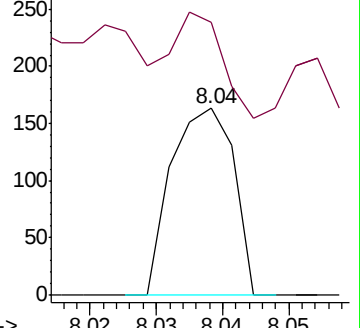
69 100

41 46.7 39.9 119.7



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0



#52

1,1,2-Trichloroethane

Concen: 0.004 ug/l

RT: 8.10 min Scan# 2179

Delta R.T. 0.03 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Tgt Ion: 97 Resp: 40

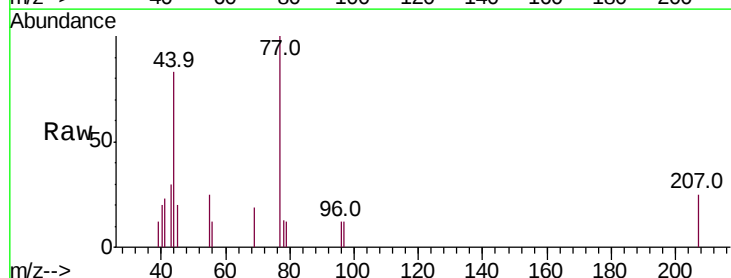
Ion Ratio Lower Upper

97 100

83 0.0 69.9 104.9#

85 0.0 45.8 68.6#

99 0.0 50.2 75.2#

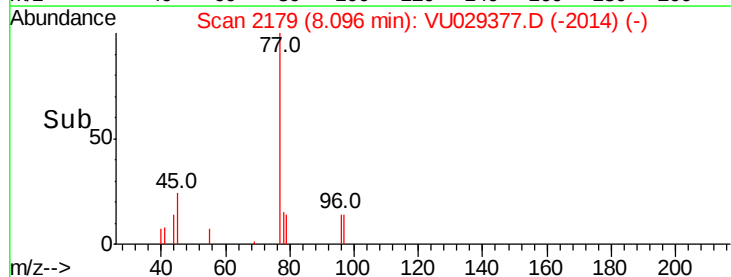
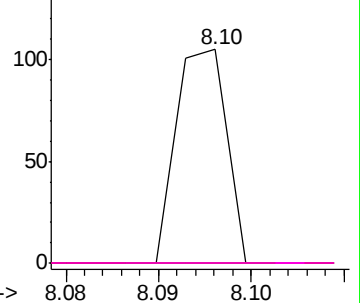


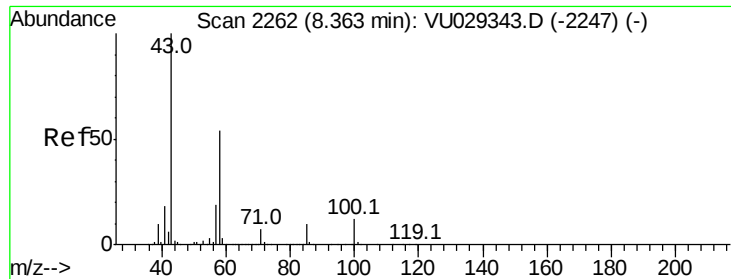
Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 84.95 (84.65 to 85.65): VU0

Ion 98.95 (98.65 to 99.65): VU0





#54

2-Hexanone

Concen: 0.029 ug/l

RT: 8.38 min Scan# 2267

Delta R.T. 0.02 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampled :

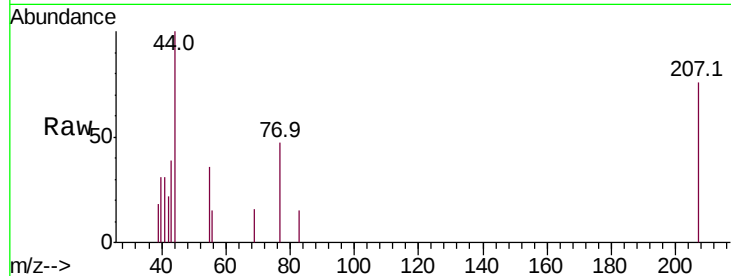
Tot Ion: 43 Resp: 203

Ion Ratio Lower Upper

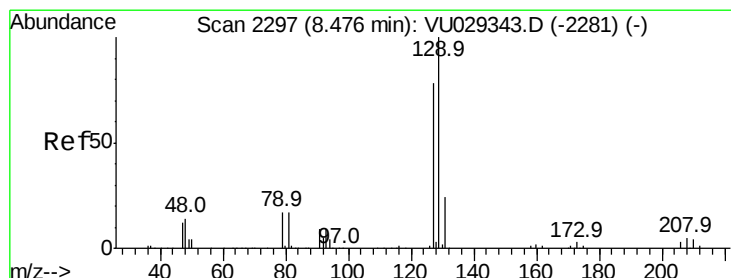
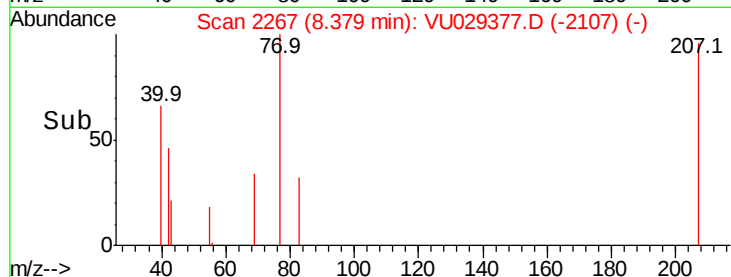
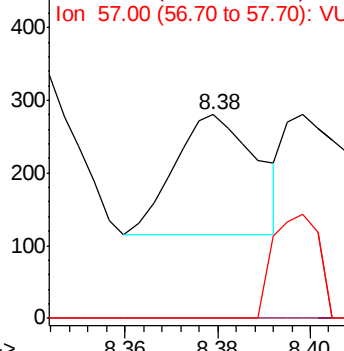
43 100

58 0.0 26.0 66.0#

57 0.0 0.0 37.7



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0



#55

Dibromochloromethane

Concen: 5.948 ug/l

RT: 8.48 min Scan# 2297

Delta R.T. -0.00 min

Lab File: VU029377.D

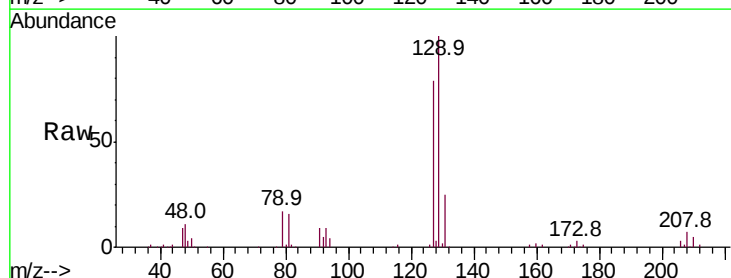
Acq: 08 Feb 2019 14:01

Tgt Ion: 129 Resp: 95026

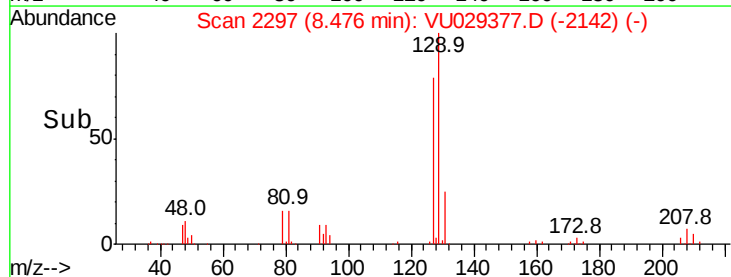
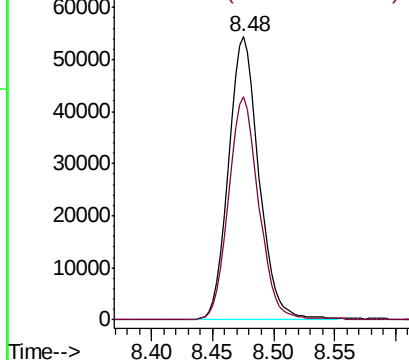
Ion Ratio Lower Upper

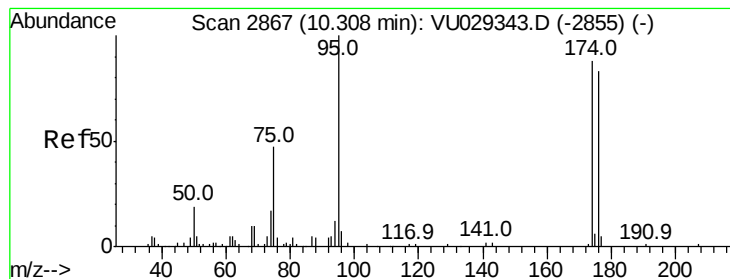
129 100

127 78.4 60.5 90.7



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





#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampleId :

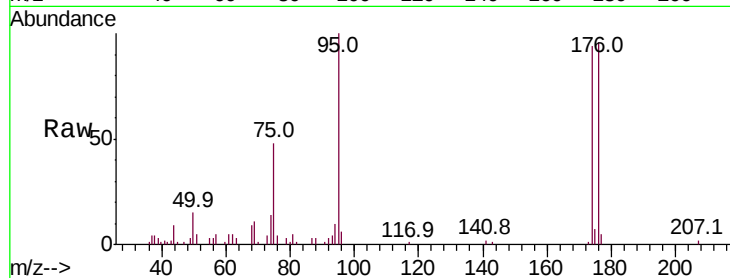
Tot Ion: 95 Resp: 19541

Ion Ratio Lower Upper

95 100

174 92.5 64.2 96.2

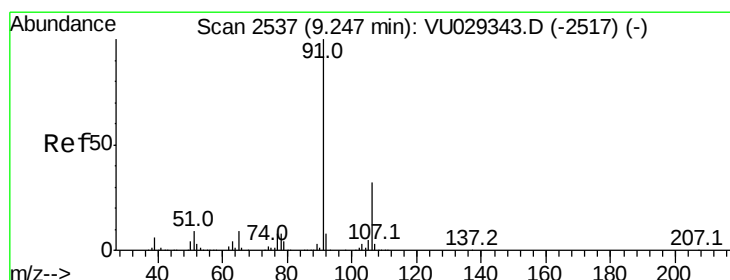
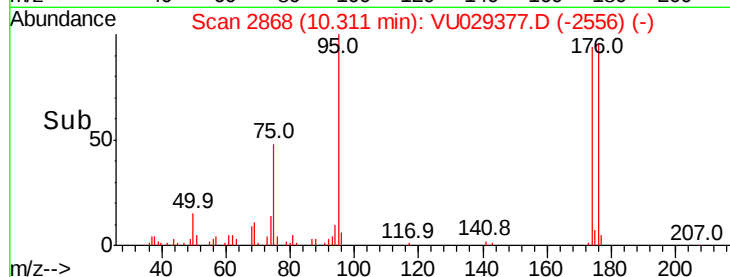
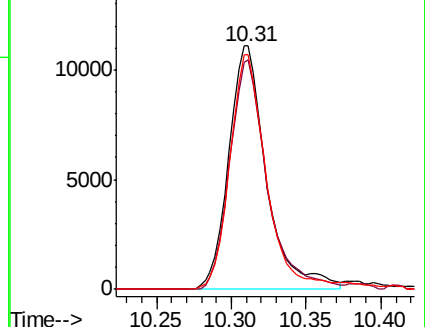
176 94.5 62.3 93.5#



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Ethyl Benzene

Concen: 0.002 ug/l

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU029377.D

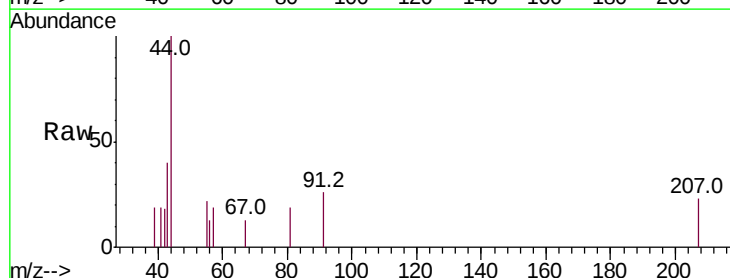
Acq: 08 Feb 2019 14:01

Tgt Ion: 91 Resp: 132

Ion Ratio Lower Upper

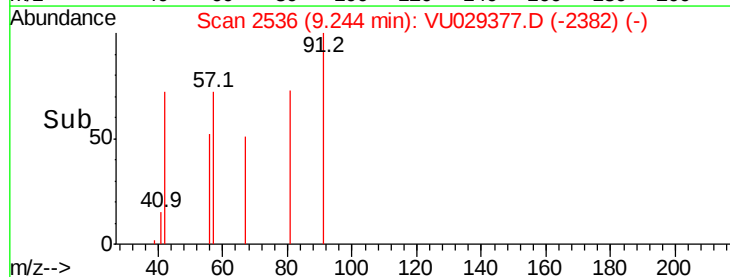
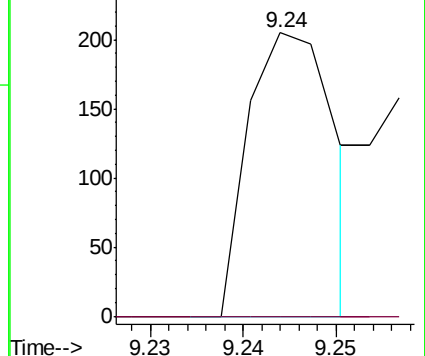
91 100

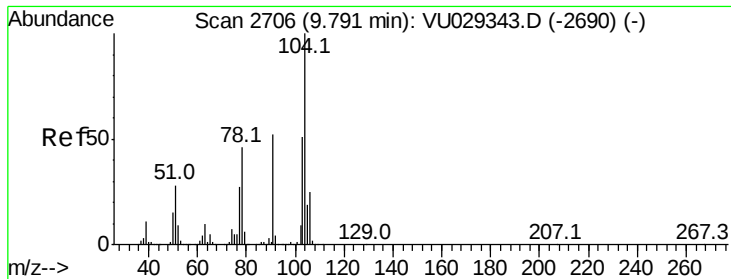
106 0.0 23.8 35.6#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#66

Stvrene

Concen: 0.004 ug/l

RT: 9.81 min Scan# 2711

Delta R.T. 0.02 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :
MSVOA_U
ClientSampleId :

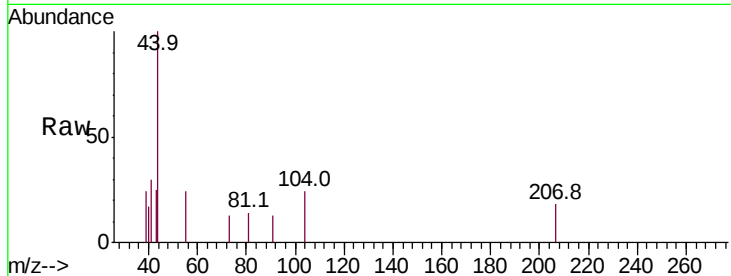
Tot Ion:104 Resp: 205

Ion Ratio Lower Upper

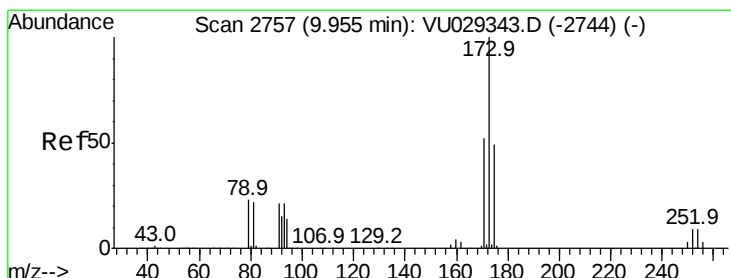
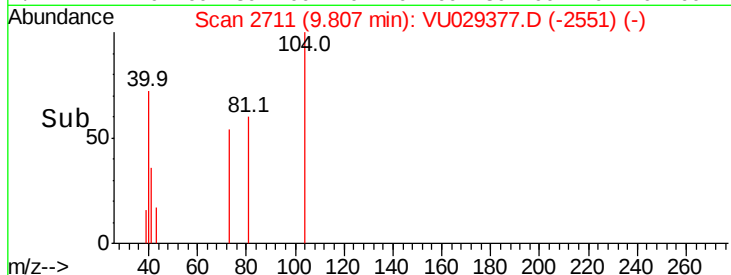
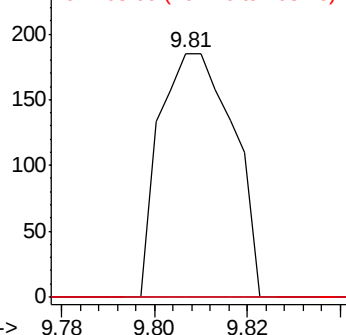
104 100

78 10.7 46.5 69.7#

103 0.0 44.7 67.1#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU
Ion 103.00 (102.70 to 103.70): V



#67

Bromoform

Concen: 26.752 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

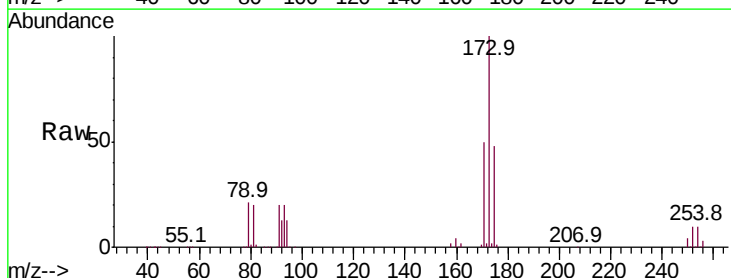
Tgt Ion:173 Resp: 265881

Ion Ratio Lower Upper

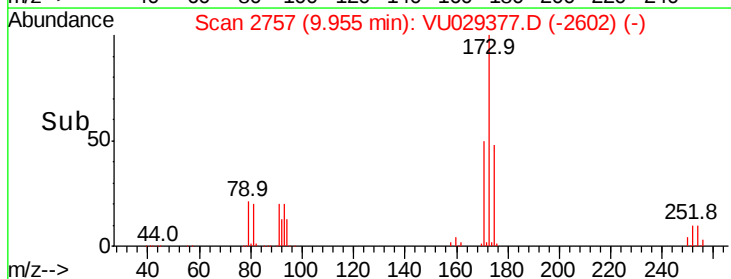
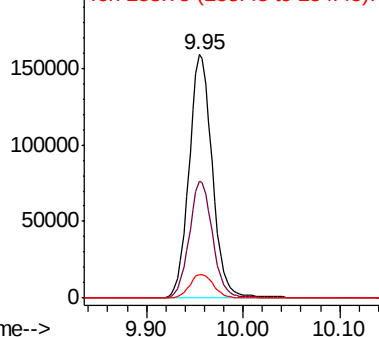
173 100

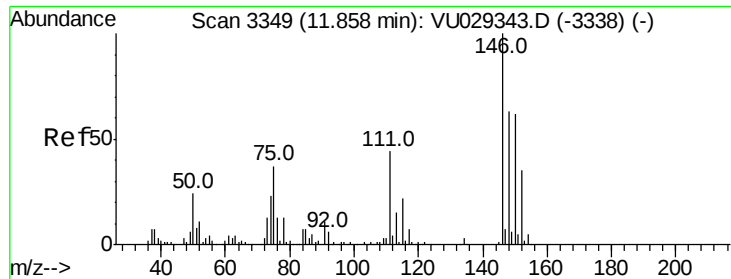
175 48.0 38.9 58.3

254 10.0 7.4 11.2



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V





#68

1,2-Dichlorobenzene-d4

Concen: 26.752 ug/l

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampleId :

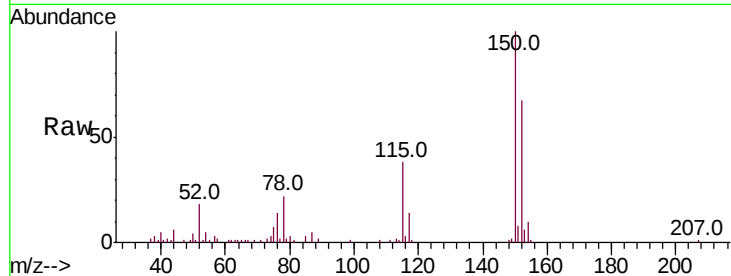
Tot Ion:152 Resp: 21438

Ion Ratio Lower Upper

152 100

115 58.9 0.0 133.4

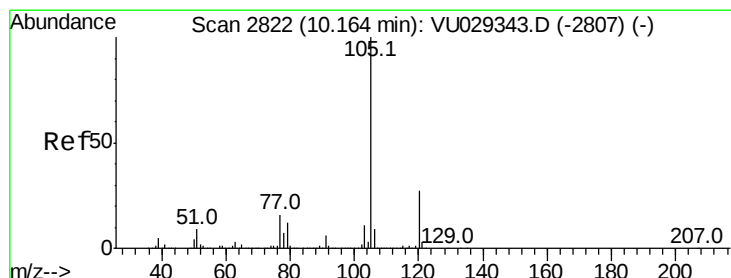
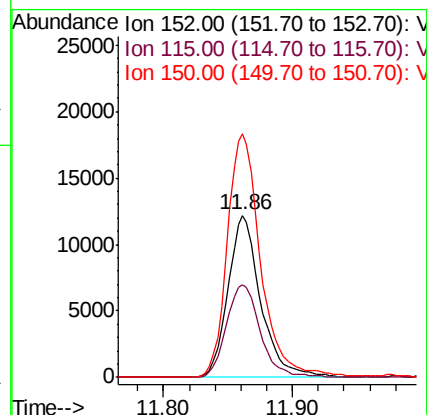
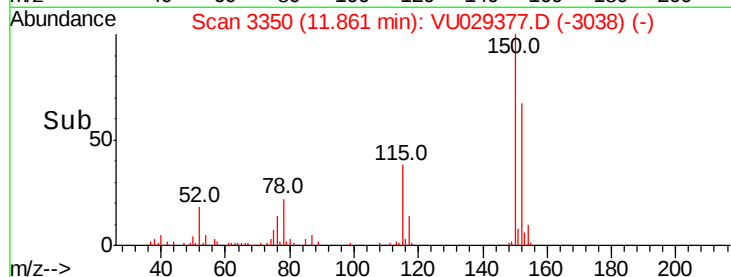
150 153.5 0.0 670.8



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#69

Isopropylbenzene

Concen: 0.001 ug/l

RT: 10.15 min Scan# 2818

Delta R.T. -0.01 min

Lab File: VU029377.D

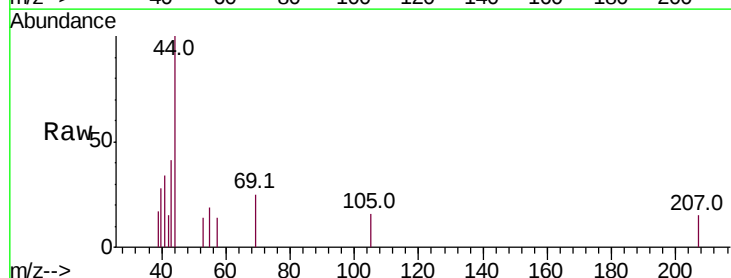
Acq: 08 Feb 2019 14:01

Tgt Ion:105 Resp: 43

Ion Ratio Lower Upper

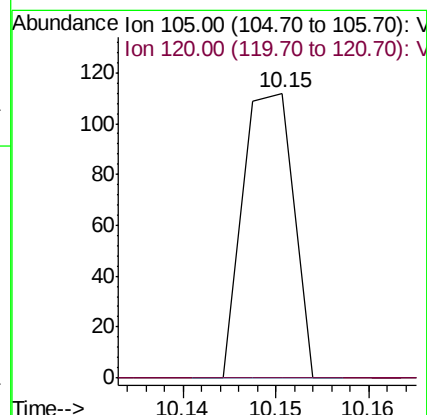
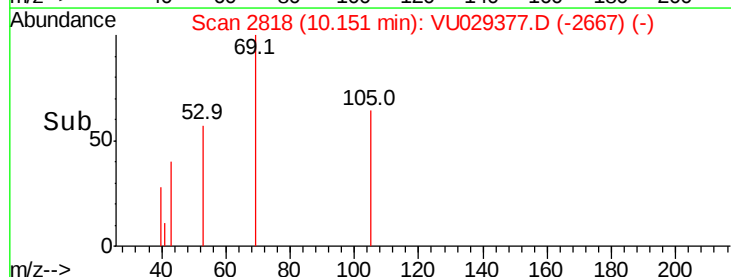
105 100

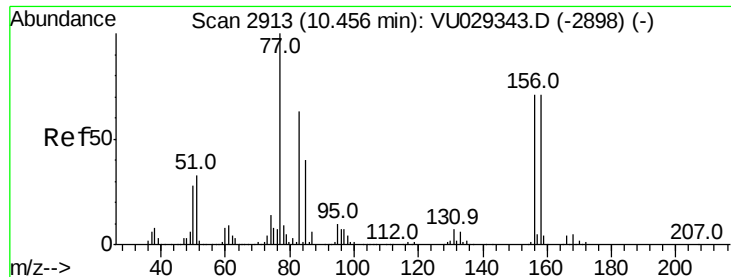
120 0.0 12.6 37.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#70

1,1,2,2-Tetrachloroethane

Concen: 0.002 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampleId :

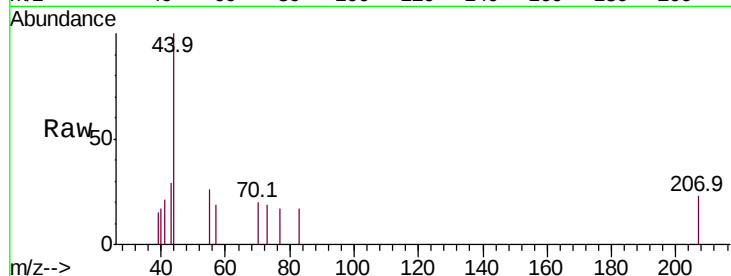
Tot Ion: 83 Resp: 22

Ion Ratio Lower Upper

83 100

131 0.0 8.1 12.1#

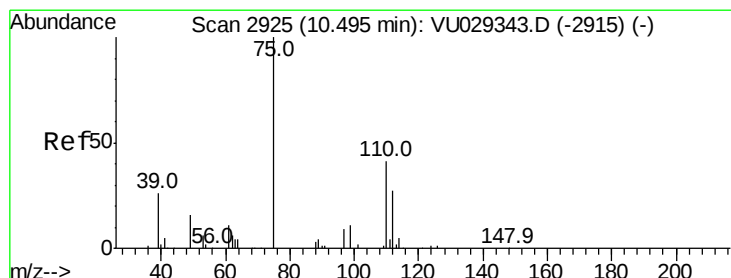
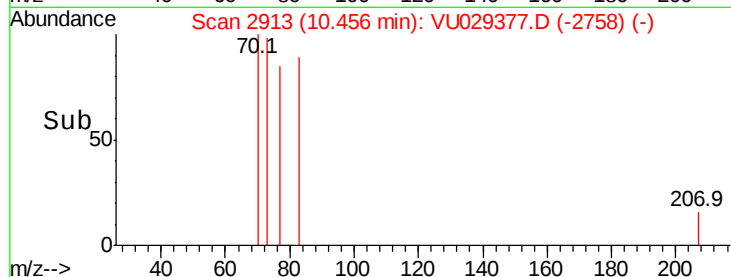
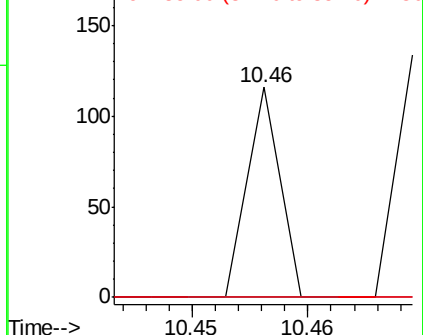
85 0.0 50.3 75.5#



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0



#71

1,2,3-Trichloropropane

Concen: 0.993 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. -0.19 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Tgt Ion: 75 Resp: 9827

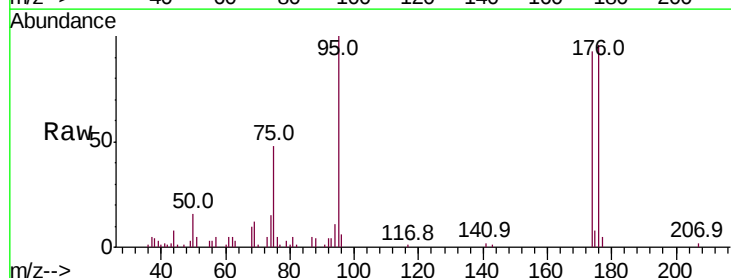
Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#

110 0.0 0.0 63.6

97 0.0 0.0 31.4

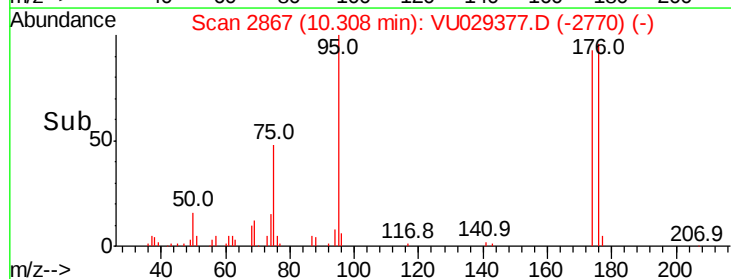
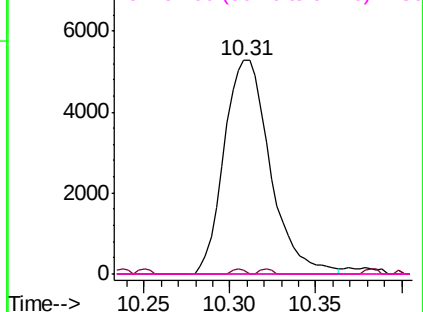


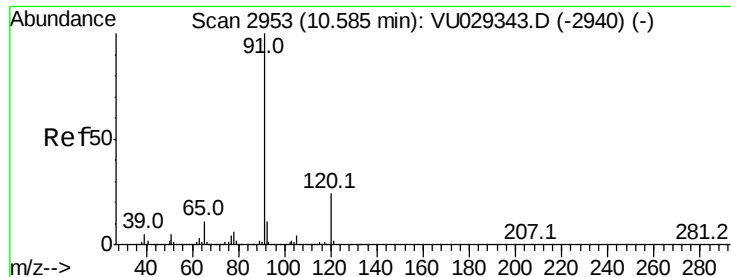
Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0





#73

n-propylbenzene

Concen: 0.087 ug/l

RT: 10.59 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

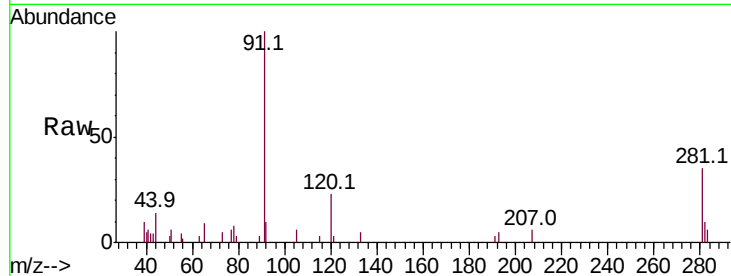
ClientSampleId :

Tot Ion:120 Resp: 1896

Ion Ratio Lower Upper

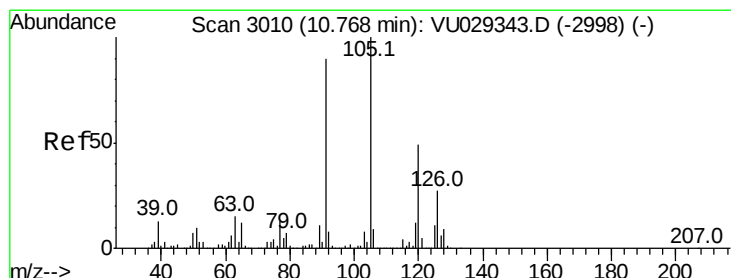
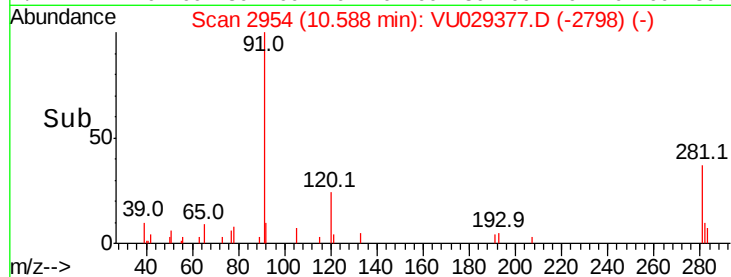
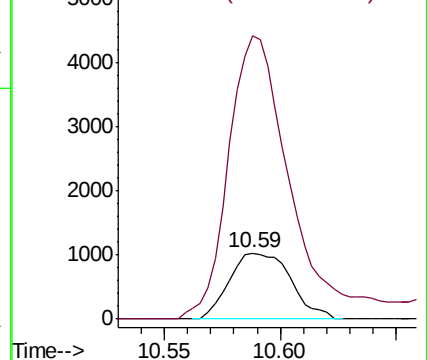
120 100

91 435.4 370.0 555.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#75

1,3,5-Trimethylbenzene

Concen: 0.003 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029377.D

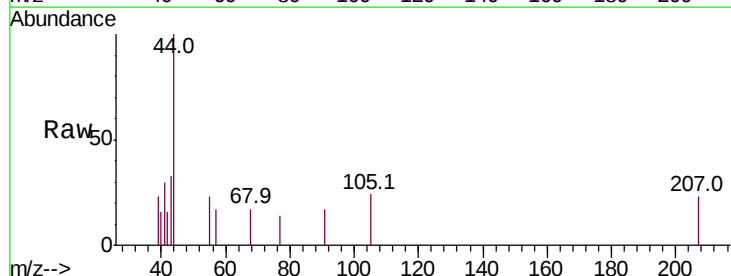
Acq: 08 Feb 2019 14:01

Tgt Ion:105 Resp: 206

Ion Ratio Lower Upper

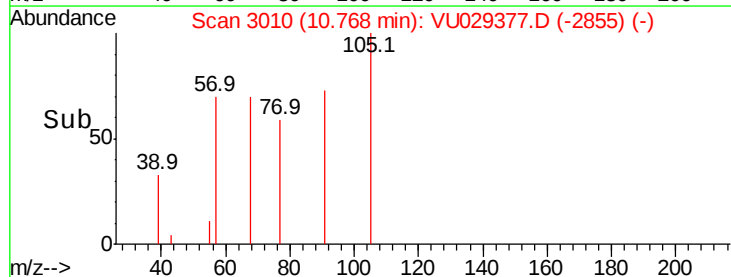
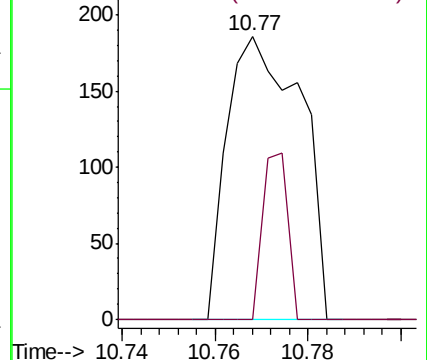
105 100

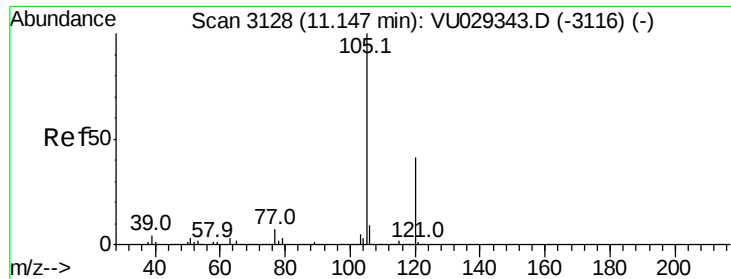
120 0.0 37.3 55.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

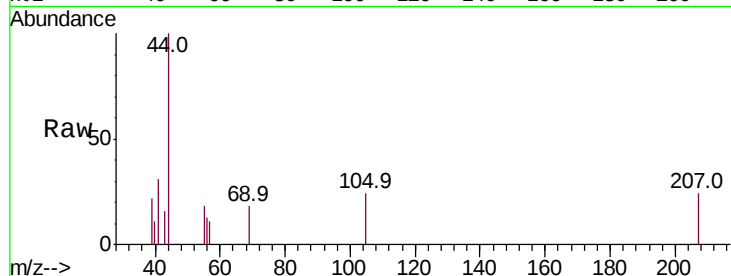




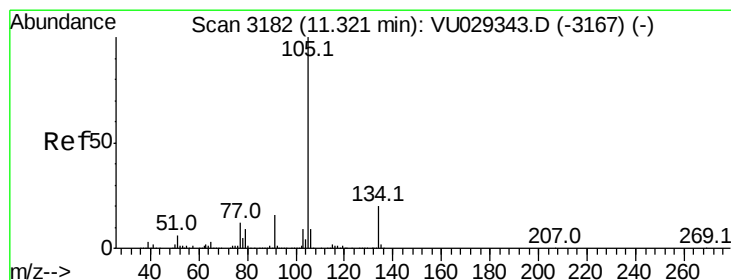
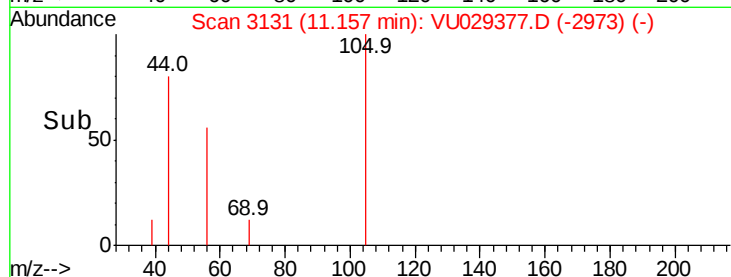
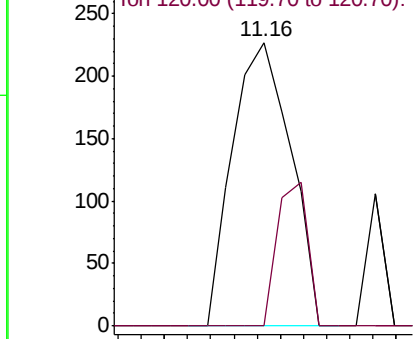
#78
 1,2,4-Trimethylbenzene
 Concen: 0.002 ug/l
 RT: 11.16 min Scan# 3131
 Delta R.T. 0.01 min
 Lab File: VU029377.D
 Acq: 08 Feb 2019 14:01

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:105 Resp: 158
 Ion Ratio Lower Upper
 105 100
 120 26.6 21.4 64.3

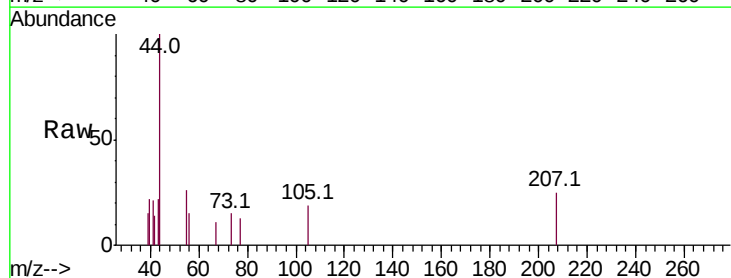


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

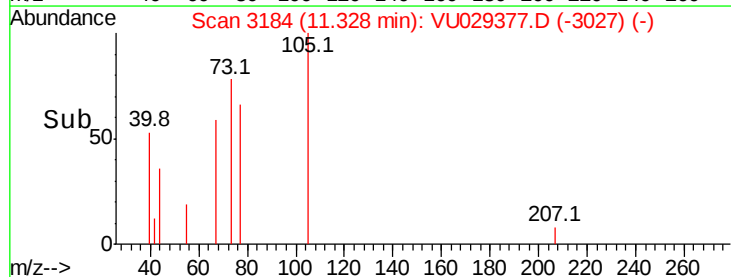
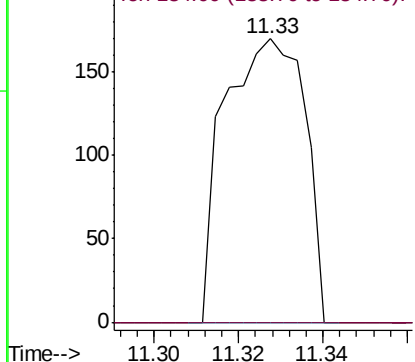


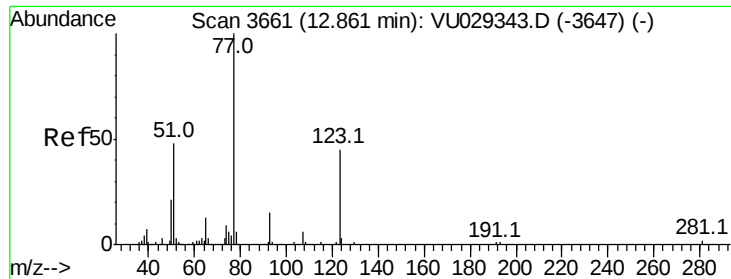
#79
 sec-Butylbenzene
 Concen: 0.003 ug/l
 RT: 11.33 min Scan# 3184
 Delta R.T. 0.01 min
 Lab File: VU029377.D
 Acq: 08 Feb 2019 14:01

Tgt Ion:105 Resp: 224
 Ion Ratio Lower Upper
 105 100
 134 0.0 15.0 22.6#



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V





#80

Nitrobenzene

Concen: 0.062 ug/l

RT: 12.85 min Scan# 3656

Delta R.T. -0.02 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampled :

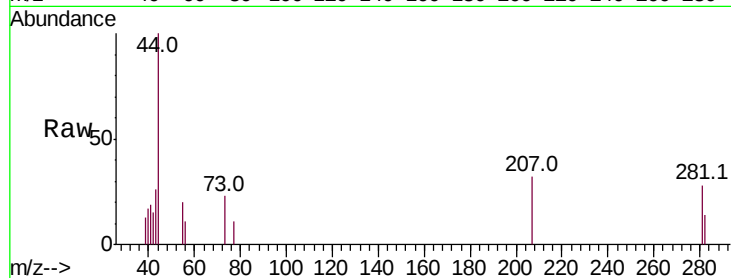
Tot Ion: 77 Resp: 40

Ion Ratio Lower Upper

77 100

123 0.0 17.5 61.9#

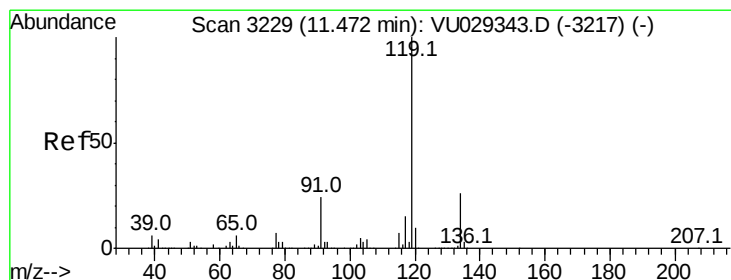
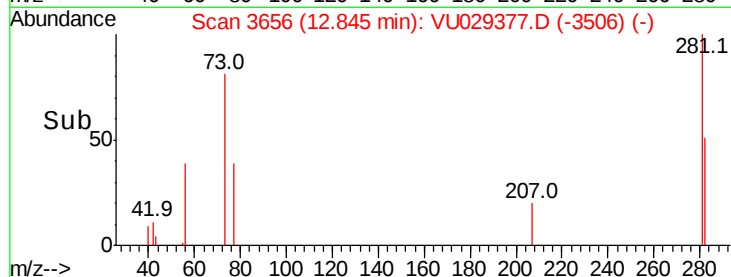
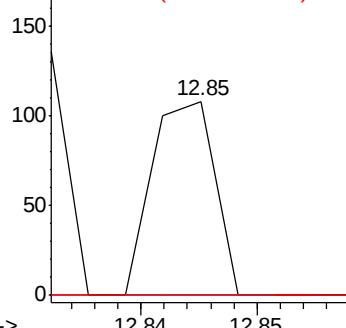
65 0.0 10.8 13.8#



Abundance Ion 77.00 (76.70 to 77.70): VU029343.D (-3647) (-)

Ion 123.00 (122.70 to 123.70): VU029343.D (-3647) (-)

Ion 65.00 (64.70 to 65.70): VU029343.D (-3647) (-)



#81

p-Isopropyltoluene

Concen: 0.001 ug/l

RT: 11.49 min Scan# 3233

Delta R.T. 0.01 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

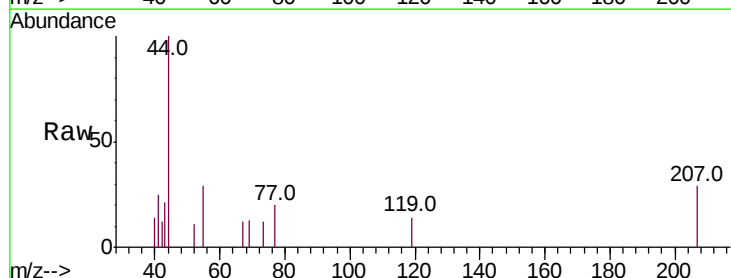
Tgt Ion: 119 Resp: 70

Ion Ratio Lower Upper

119 100

134 0.0 19.8 29.6#

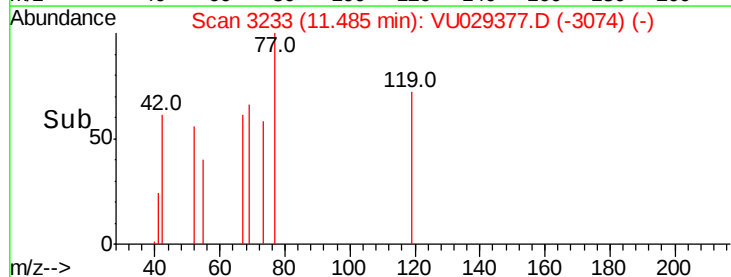
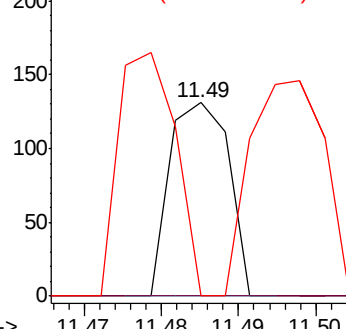
91 120.0 21.5 32.3#

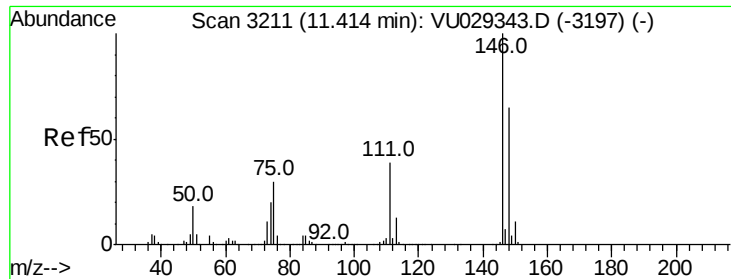


Abundance Ion 119.00 (118.70 to 119.70): VU029343.D (-3217) (-)

Ion 134.00 (133.70 to 134.70): VU029343.D (-3217) (-)

Ion 91.00 (90.70 to 91.70): VU029343.D (-3217) (-)





#82

1,3-Dichlorobenzene

Concen: 0.003 ug/l

RT: 11.42 min Scan# 3214

Delta R.T. 0.01 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampled :

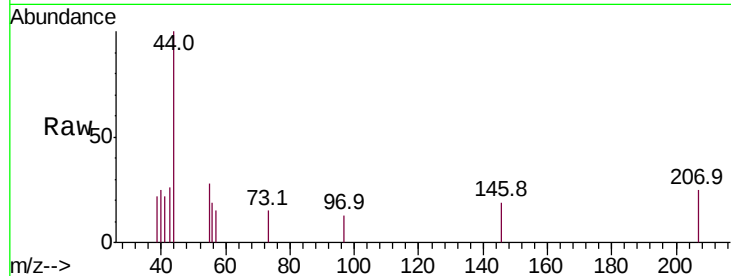
Tot Ion:146 Resp: 127

Ion Ratio Lower Upper

146 100

111 0.0 34.1 51.1#

148 0.0 52.3 78.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

11.42

150

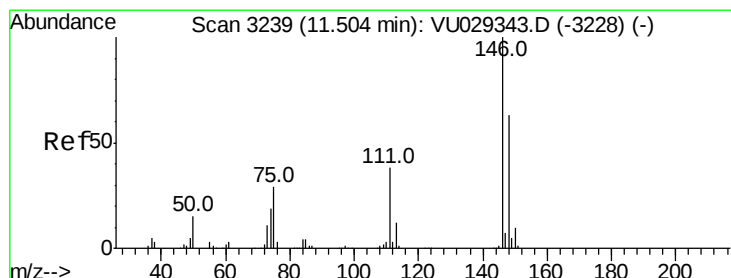
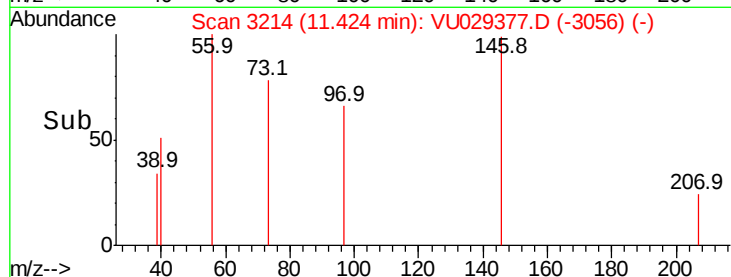
100

50

0

11.40 11.42 11.44

Time-->



#83

1,4-Dichlorobenzene

Concen: 0.006 ug/l

RT: 11.51 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

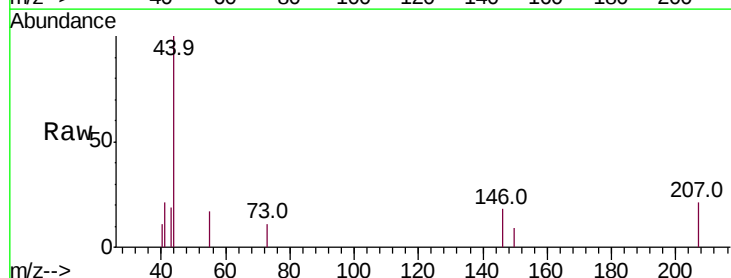
Tgt Ion:146 Resp: 234

Ion Ratio Lower Upper

146 100

111 0.0 32.9 49.3#

148 26.5 51.8 77.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

11.51

250

200

150

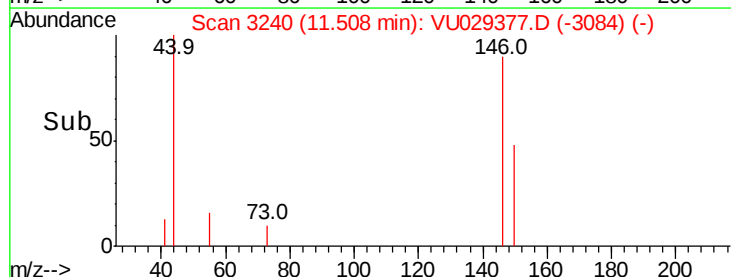
100

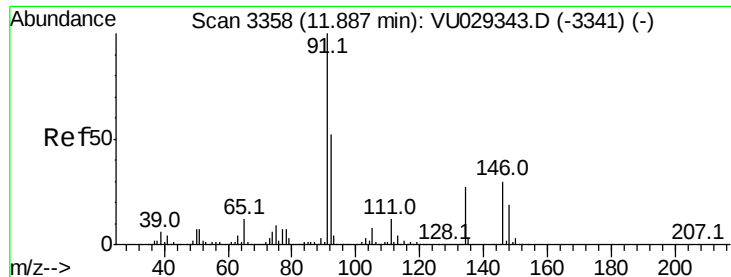
50

0

11.48 11.50 11.52 11.54

Time-->

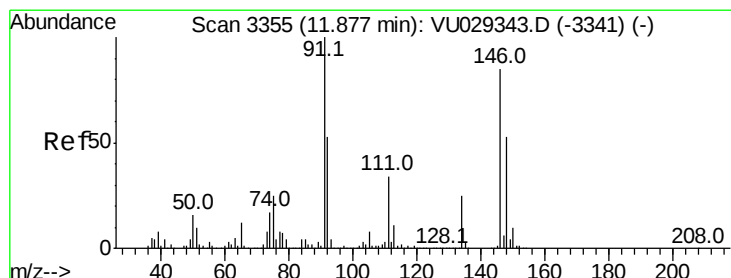
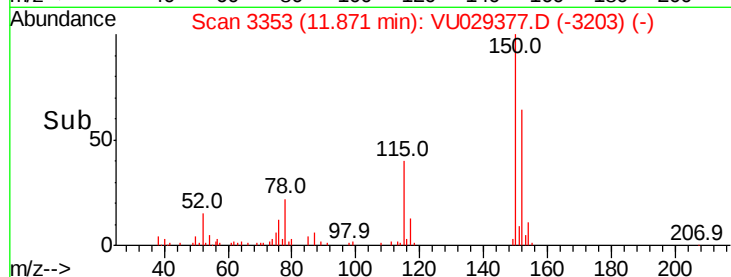
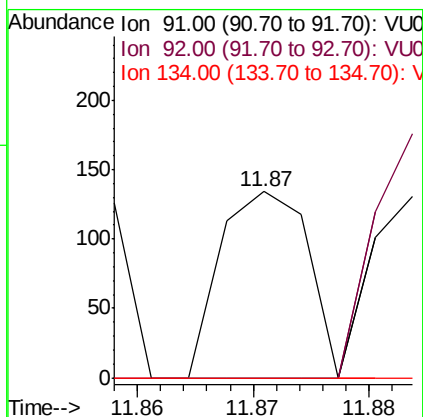
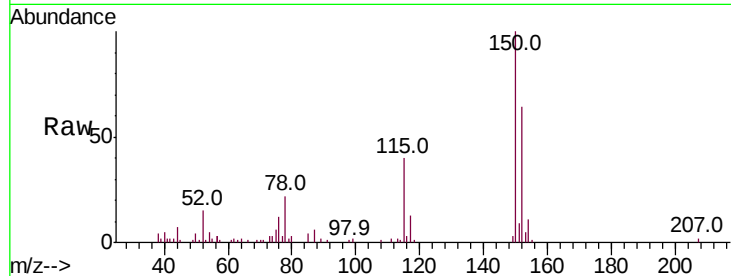




#84
n-Butylbenzene
Concen: 0.001 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. -0.02 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

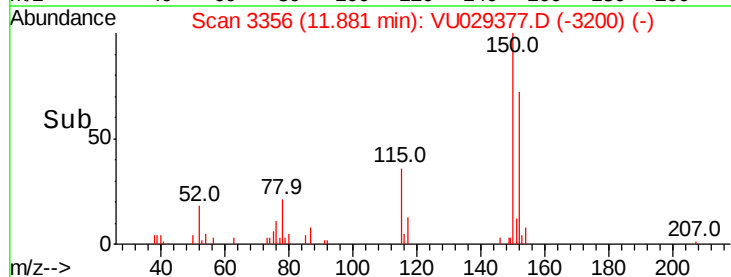
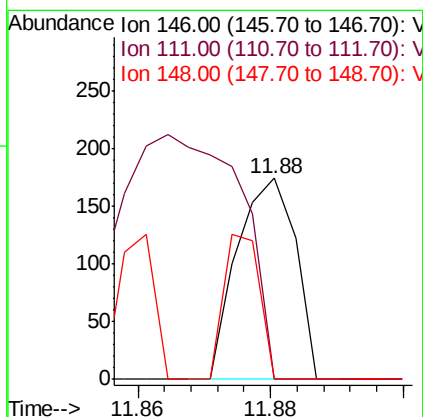
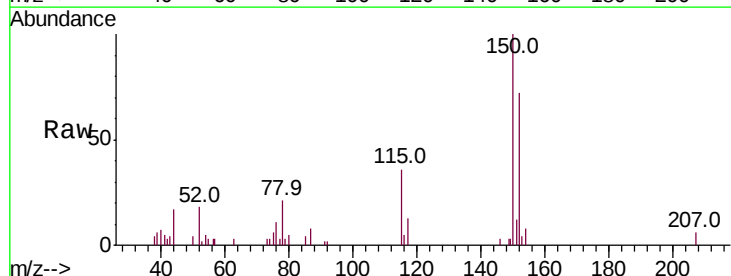
Instrument :
MSVOA_U
ClientSampled :

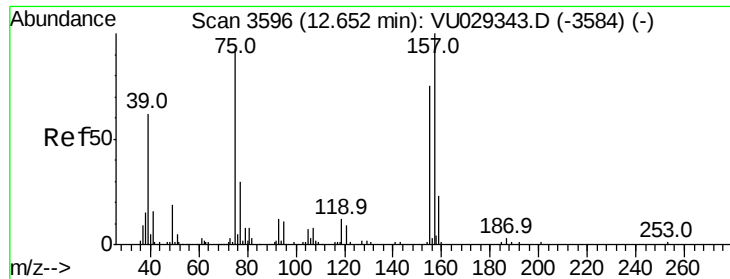
Tot Ion: 91 Resp: 70
Ion Ratio Lower Upper
91 100
92 162.9 41.0 61.6#
134 0.0 19.1 28.7#



#85
1,2-Dichlorobenzene
Concen: 0.003 ug/l
RT: 11.88 min Scan# 3356
Delta R.T. 0.00 min
Lab File: VU029377.D
Acq: 08 Feb 2019 14:01

Tgt Ion: 146 Resp: 106
Ion Ratio Lower Upper
146 100
111 18.9 21.9 65.8#
148 44.3 31.8 95.3





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.069 ug/l

RT: 12.49 min Scan# 3545

Delta R.T. -0.16 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampled :

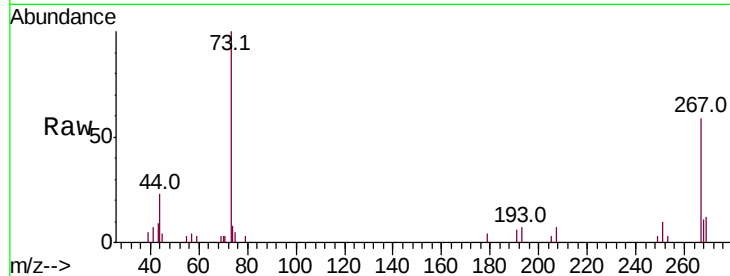
Tot Ion: 75 Resp: 185

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

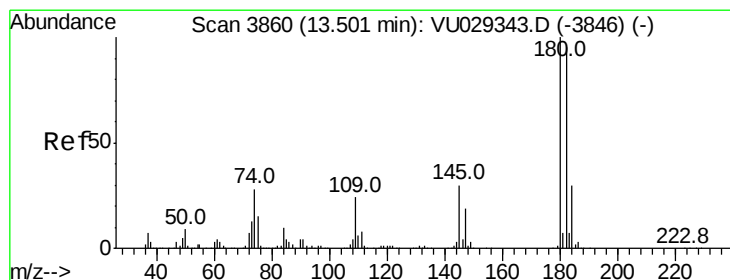
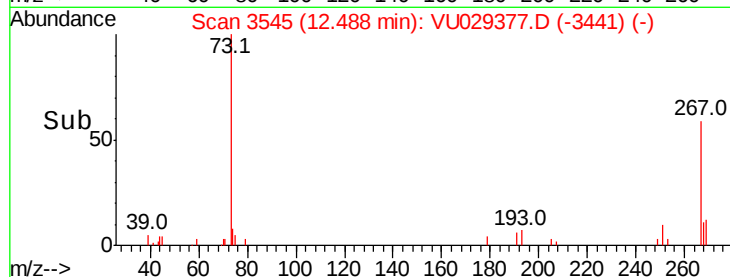
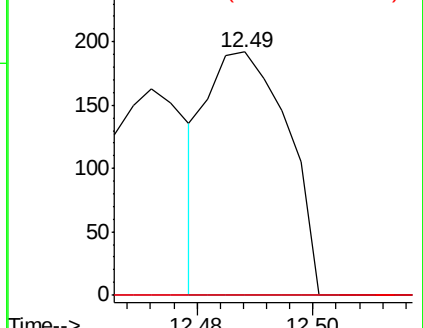
157 0.0 69.2 103.8#



Abundance Ion 75.00 (74.70 to 75.70): VU029343.D (-3584) (-)

Ion 155.00 (154.70 to 155.70): VU029343.D (-3584) (-)

Ion 157.00 (156.70 to 157.70): VU029343.D (-3584) (-)



#87

1,2,4-Trichlorobenzene

Concen: 0.001 ug/l

RT: 13.55 min Scan# 3875

Delta R.T. 0.05 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

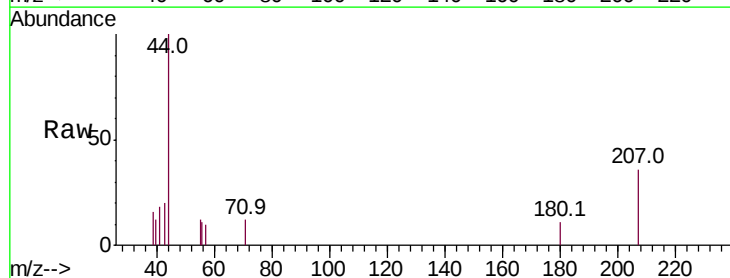
Tgt Ion: 180 Resp: 23

Ion Ratio Lower Upper

180 100

182 0.0 76.6 114.8#

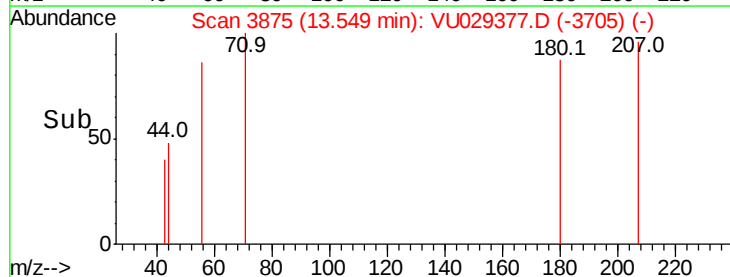
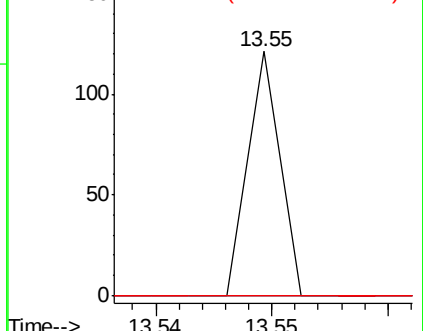
145 0.0 24.6 36.8#

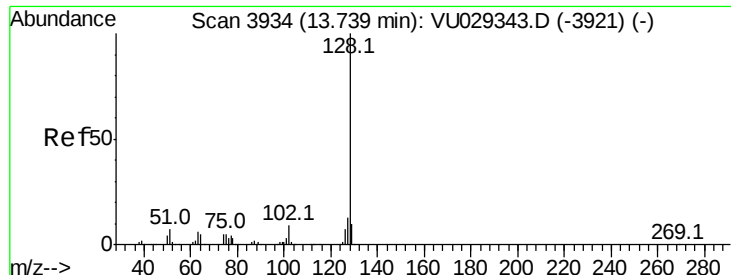


Abundance Ion 179.70 (179.40 to 180.40): VU029343.D (-3846) (-)

Ion 181.80 (181.50 to 182.50): VU029343.D (-3846) (-)

Ion 144.80 (144.50 to 145.50): VU029343.D (-3846) (-)





#89

Naphthalene

Concen: 0.002 ug/l

RT: 13.80 min Scan# 3952

Delta R.T. 0.06 min

Lab File: VU029377.D

Acq: 08 Feb 2019 14:01

Instrument :

MSVOA_U

ClientSampleId :

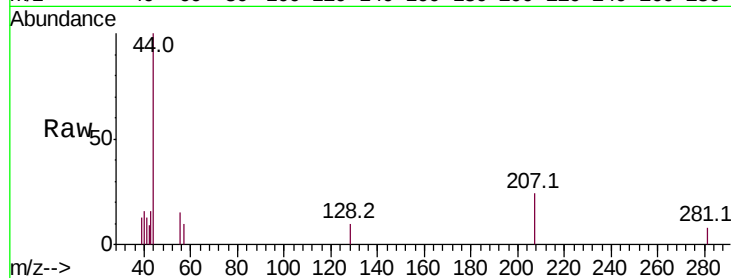
Tot Ion:128 Resp: 67

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.2 12.4#



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

