

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029376.D
 Acq On : 08 Feb 2019 13:34
 Operator : JC/SP
 Sample : K1161-10DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 09 03:18:11 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	58984	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	21690	0.94	ug/l	0.00
Spiked Amount	1.000		Recovery	=	94.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	23613	1.00	ug/l	0.00
Spiked Amount	1.000		Recovery	=	100.00%	

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	121	0.005	ug/l # 43
3) Chloromethane	1.38	50	368	0.018	ug/l # 99
4) Vinyl Chloride	1.53	62	46	0.002	ug/l # 35
5) Bromomethane	1.62	94	199	0.015	ug/l # 61
6) Chloroethane	1.69	64	223	0.016	ug/l # 73
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	170824	9.824	ug/l # 88
9) 1,1-Dichloroethene	2.28	96	534	0.031	ug/l # 20
10) Iodomethane	2.39	142	20	0.301	ug/l # 1
12) Acrylonitrile	2.90	53	96	0.025	ug/l # 77
13) Acetone	2.46	43	239	0.065	ug/l # 96
14) Carbon Disulfide	2.48	76	911	0.015	ug/l # 92
15) Methylene Chloride	2.70	84	7486	0.363	ug/l # 74
16) trans-1,2-Dichloroethene	3.00	96	139	0.007	ug/l # 1
17) 1,1-Dichloroethane	3.39	63	235	0.008	ug/l # 49
18) 2-Butanone	4.07	43	39256	9.556	ug/l # 1
19) Cyclohexane	4.97	56	318	0.011	ug/l # 32
20) Methylcyclohexane	6.41	83	88	0.003	ug/l # 44
21) 2,2-Dichloropropane	4.13	77	109	0.004	ug/l # 95
22) cis-1,2-Dichloroethene	4.20	96	63	0.004	ug/l # 71
23) Diethyl Ether	2.10	59	908	0.066	ug/l # 76
24) tert-Butyl Alcohol	2.84	59	13733	9.671	ug/l # 71
25) Methyl tert-Butyl Ether	3.00	73	374554	7.818	ug/l # 86
27) Chloroform	4.67	83	188	0.006	ug/l # 19
28) 1,1,1-Trichloroethane	4.92	97	125	0.005	ug/l # 22
30) Carbon Tetrachloride	4.99	117	20	0.001	ug/l # 12
31) Isopropyl Ether	3.58	45	377584	8.299	ug/l # 91
32) Ethyl-t-butyl ether	4.07	59	354238	7.769	ug/l # 87
33) Tert-Amyl methyl ether	5.58	73	403416	9.785	ug/l # 98
34) Propionitrile	4.31	54	47	0.044	ug/l # 58
35) Benzene	5.39	78	571	0.009	ug/l # 89
36) 1,2-Dichloroethane	5.56	62	41	0.002	ug/l # 1
41) Tetrahydrofuran	4.64	42	111	0.040	ug/l # 2
42) 1-Chlorobutane	5.00	56	296	0.009	ug/l # 94
43) Dibromomethane	6.77	93	19	0.002	ug/l # 1
44) Bromodichloromethane	6.76	83	184	0.008	ug/l # 27
45) 4-Methyl-2-Pentanone	7.46	43	35	0.003	ug/l # 47
46) t-1,4-Dichloro-2-butene	10.58	75	4743	0.918	ug/l # 1
47) Methyl methacrylate	6.63	69	117	0.015	ug/l # 48
48) Ethyl methacrylate	7.99	69	143	0.008	ug/l # 74
49) Toluene	7.64	92	96	0.002	ug/l # 1
52) 1,1,2-Trichloroethane	8.07	97	40	0.003	ug/l # 14

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 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

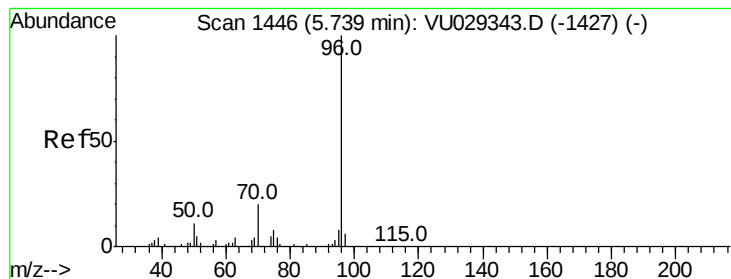
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 09 03:18:11 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)

54) 2-Hexanone	8.35	43	210	0.028	ug/l #	47
56) 1,2-Dibromoethane	8.56	107	24	0.002	ug/l #	2
58) Tetrachloroethene	8.23	164	41	0.002	ug/l #	1
59) Chlorobenzene	9.12	112	43	0.001	ug/l #	42
63) Ethyl Benzene	9.25	91	738	0.009	ug/l #	45
64) m/p-Xylenes	9.37	106	67	0.002	ug/l #	34
70) 1,1,2,2-Tetrachloroethane	10.47	83	21	0.001	ug/l #	26
71) 1,2,3-Trichloropropane	10.58	75	4743	0.450	ug/l #	53
73) n-propylbenzene	10.58	120	182233	7.859	ug/l	79
75) 1,3,5-Trimethylbenzene	10.58	105	27956	0.390	ug/l #	1
78) 1,2,4-Trimethylbenzene	11.15	105	286	0.004	ug/l	80
79) sec-Butylbenzene	11.32	105	248	0.003	ug/l #	58
80) Nitrobenzene	12.86	77	64	0.094	ug/l #	43
81) p-Isopropyltoluene	11.47	119	153	0.002	ug/l #	38
82) 1,3-Dichlorobenzene	11.42	146	300	0.008	ug/l #	24
83) 1,4-Dichlorobenzene	11.51	146	87	0.002	ug/l #	1
84) n-Butylbenzene	11.89	91	239	0.003	ug/l #	25
85) 1,2-Dichlorobenzene	11.89	146	103	0.003	ug/l #	46
86) 1,2-Dibromo-3-Chloropropan	12.48	75	565	0.197	ug/l #	11
89) Naphthalene	13.80	128	224	0.005	ug/l #	69
90) 1,2,3-Trichlorobenzene	14.01	180	42	0.002	ug/l #	11

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

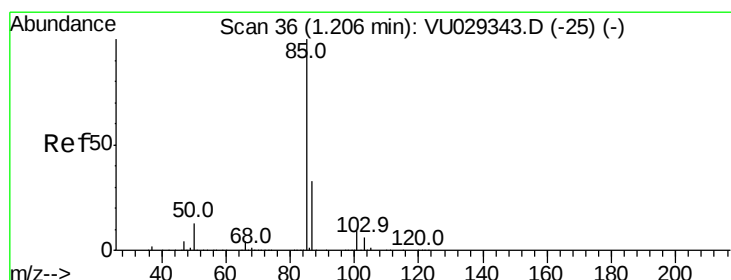
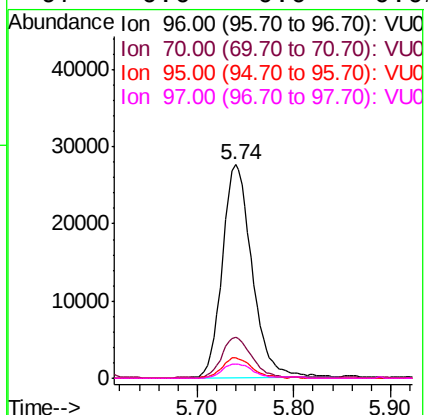
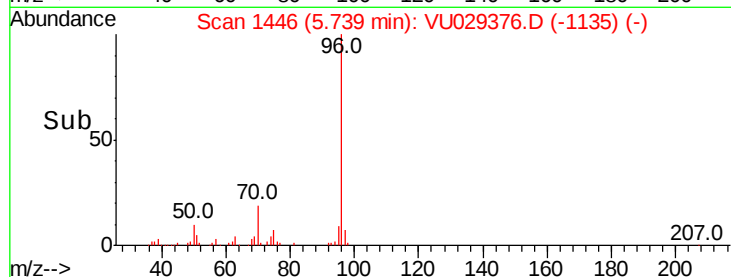
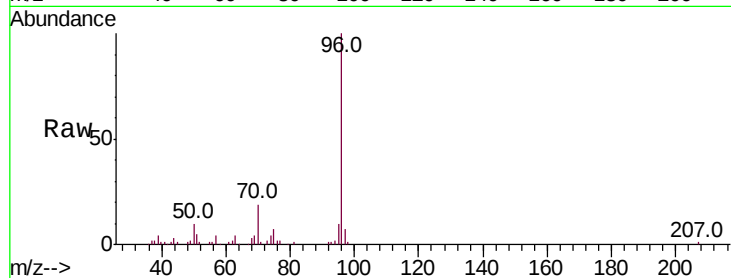
MSVOA_U

ClientSampleId :

Tot Ion: 96 Resp: 58984

Ion Ratio Lower Upper

96	100		
70	18.9	16.2	24.2
95	9.7	7.4	11.2
97	6.6	0.0	0.0#



#2

Dichlorodifluoromethane

Concen: 0.005 ug/l

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

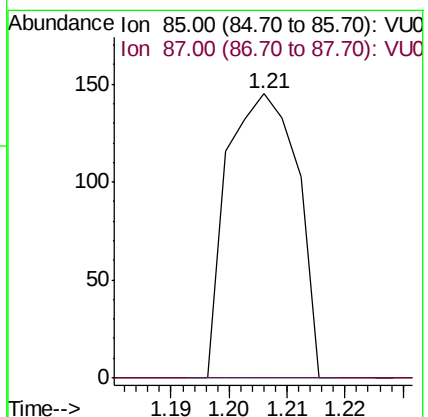
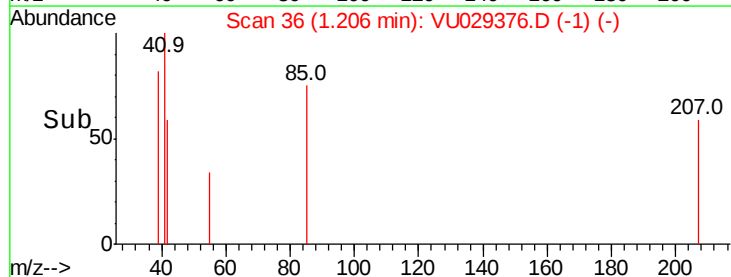
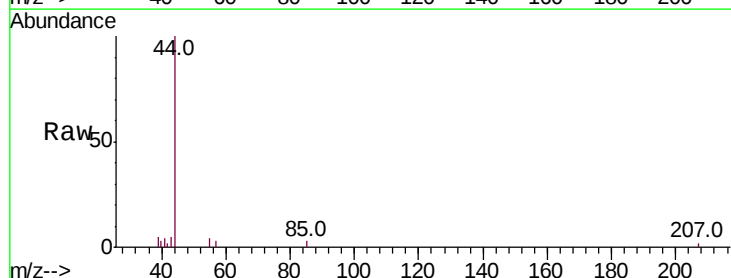
Lab File: VU029376.D

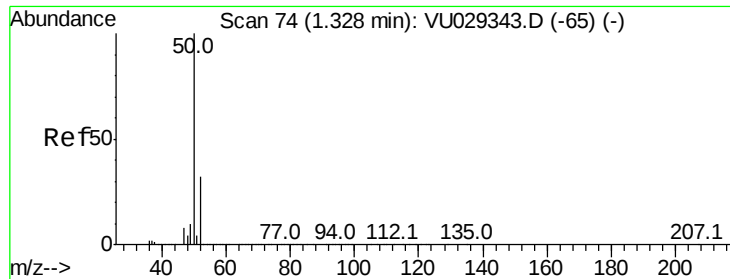
Acq: 08 Feb 2019 13:34

Tgt Ion: 85 Resp: 121

Ion Ratio Lower Upper

85	100		
87	0.0	15.9	47.6#





#3

Chloromethane

Concen: 0.018 ug/l

RT: 1.38 min Scan# 91

Delta R.T. 0.05 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

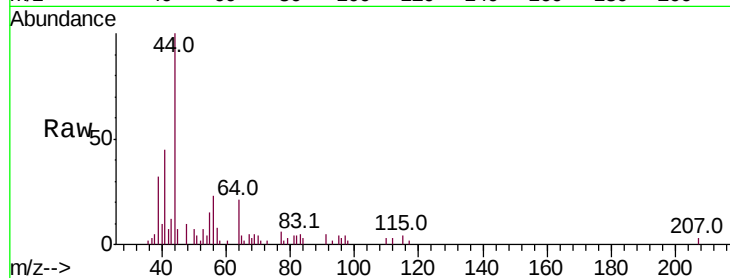
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 368

Ion Ratio Lower Upper

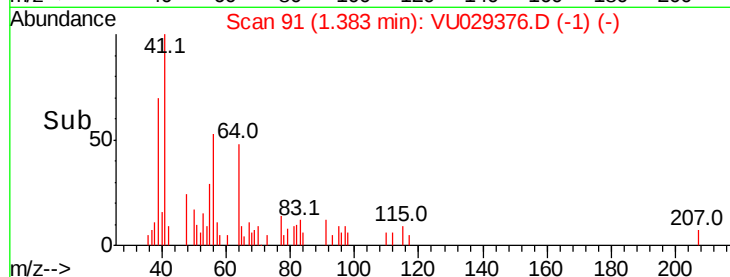
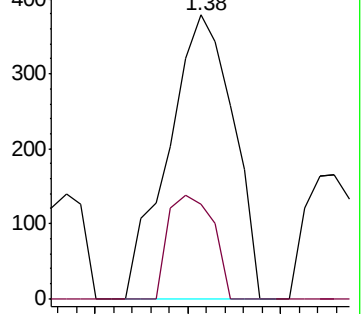
50 100

52 33.3 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: 0.002 ug/l

RT: 1.53 min Scan# 138

Delta R.T. 0.13 min

Lab File: VU029376.D

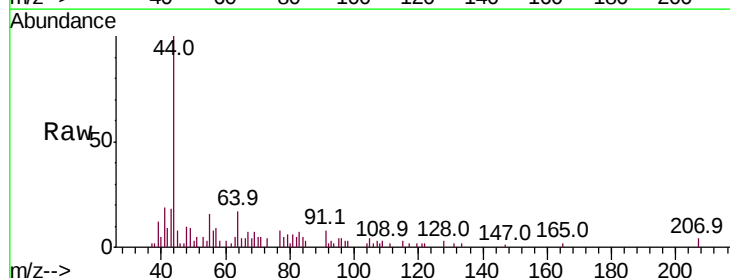
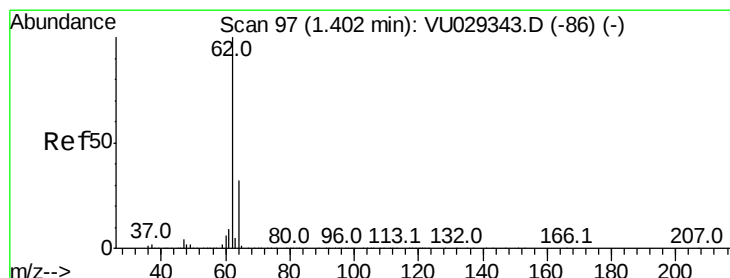
Acq: 08 Feb 2019 13:34

Tgt Ion: 62 Resp: 46

Ion Ratio Lower Upper

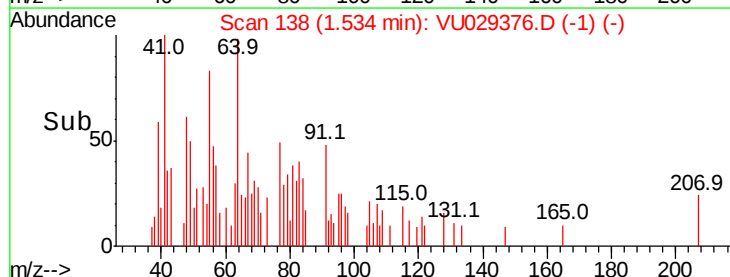
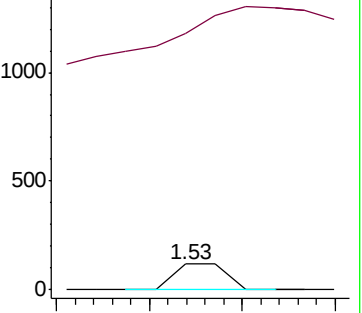
62 100

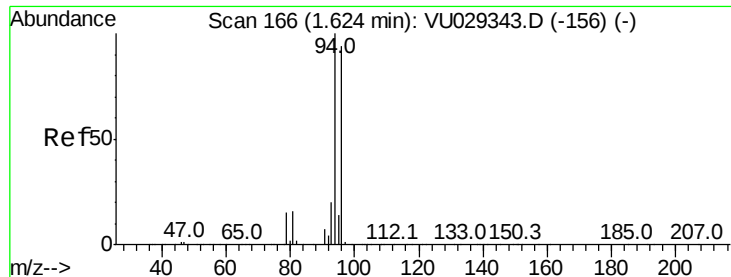
64 67.2 25.2 37.8#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.015 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

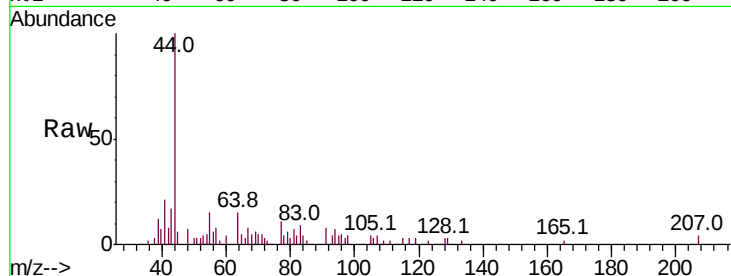
ClientSampleId :

Tot Ion: 94 Resp: 199

Ion Ratio Lower Upper

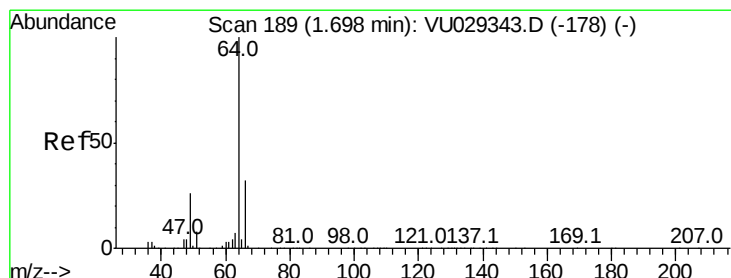
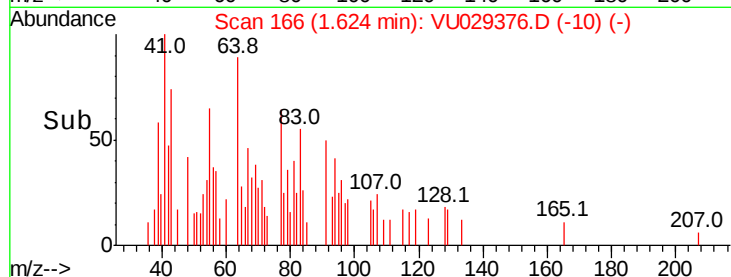
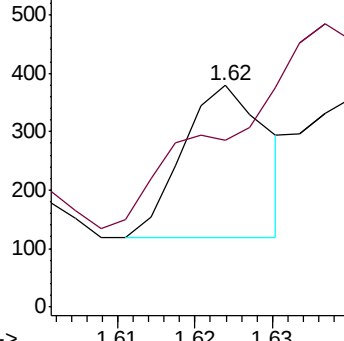
94 100

96 52.5 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: 0.016 ug/l

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029376.D

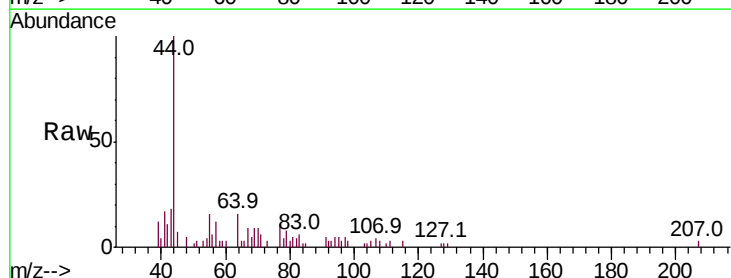
Acq: 08 Feb 2019 13:34

Tgt Ion: 64 Resp: 223

Ion Ratio Lower Upper

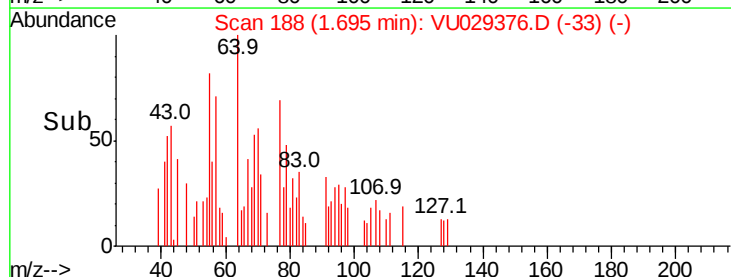
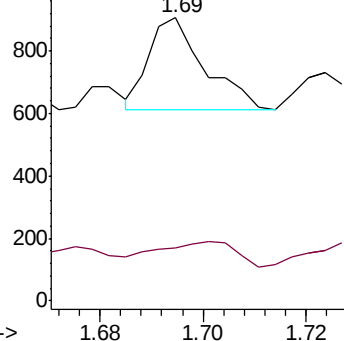
64 100

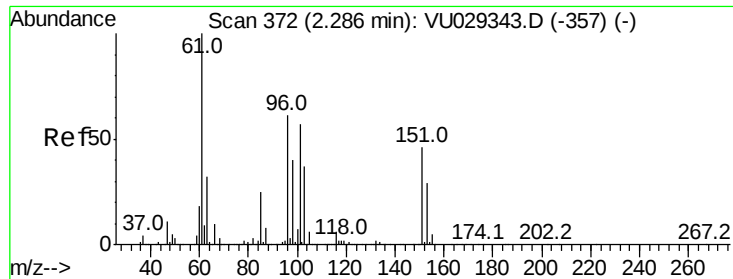
66 17.9 26.3 39.5#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 9.824 ug/l

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampleId :

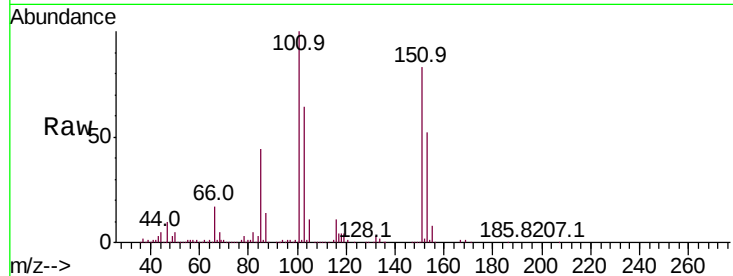
Tot Ion:101 Resp: 170824

Ion Ratio Lower Upper

101 100

85 43.0 40.3 60.5

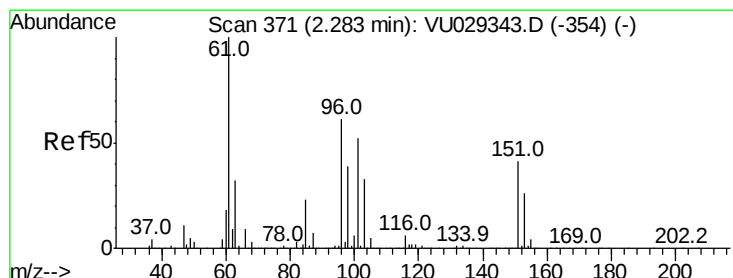
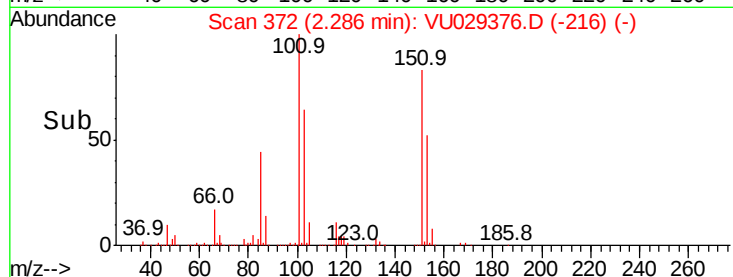
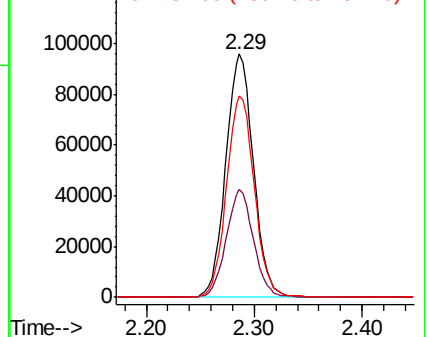
151 82.9 58.1 87.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#9

1,1-Dichloroethene

Concen: 0.031 ug/l

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

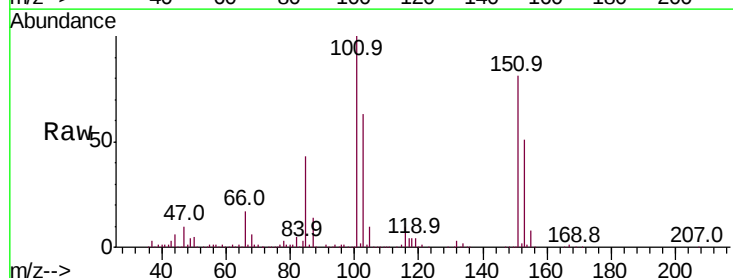
Tgt Ion: 96 Resp: 534

Ion Ratio Lower Upper

96 100

61 74.6 0.0 641.4

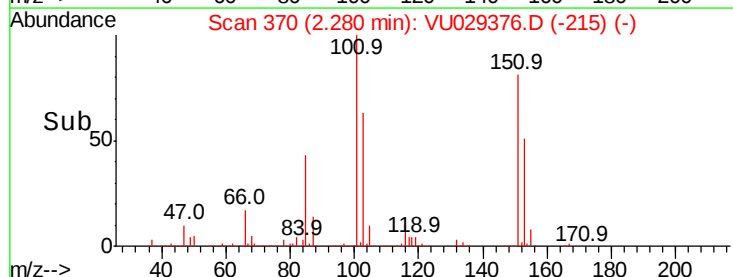
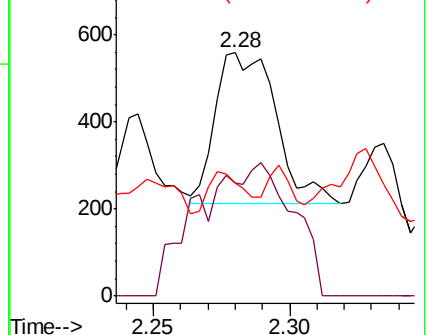
98 20.5 0.0 122.6

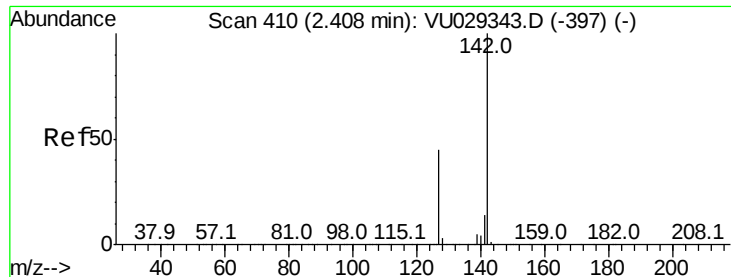


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#10

Iodomethane

Concen: 0.301 ug/l

RT: 2.39 min Scan# 405

Delta R.T. -0.02 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

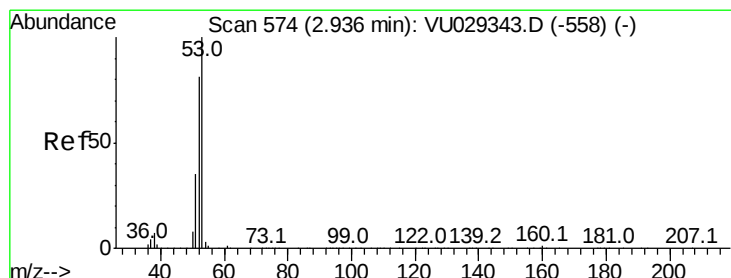
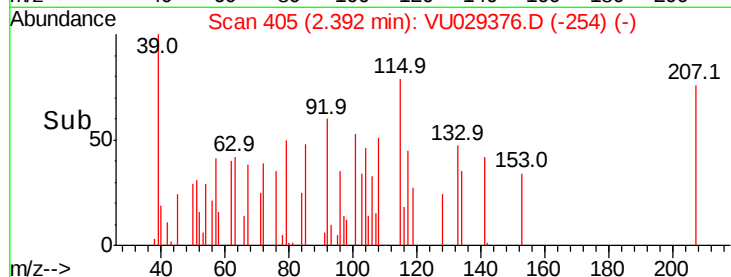
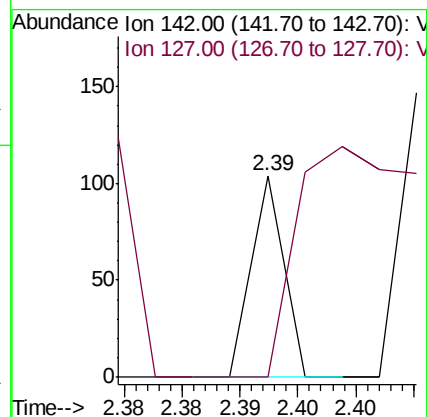
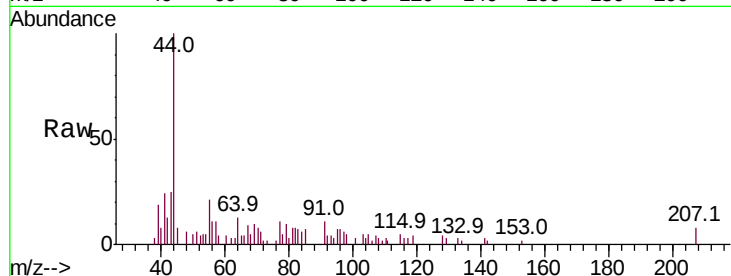
ClientSampled :

Tot Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 420.0 47.6 71.4#



#12

Acrylonitrile

Concen: 0.025 ug/l

RT: 2.90 min Scan# 564

Delta R.T. -0.03 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

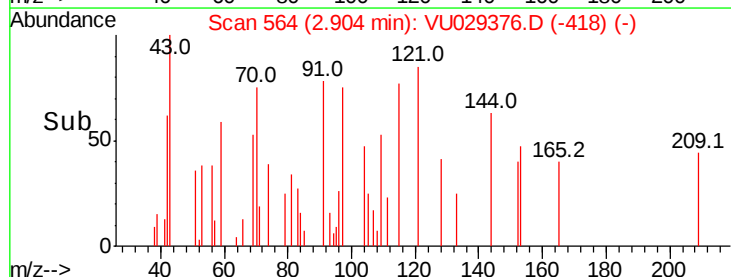
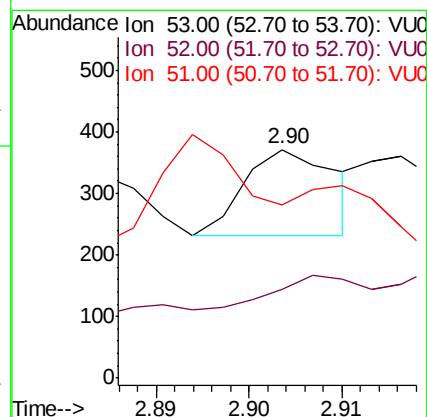
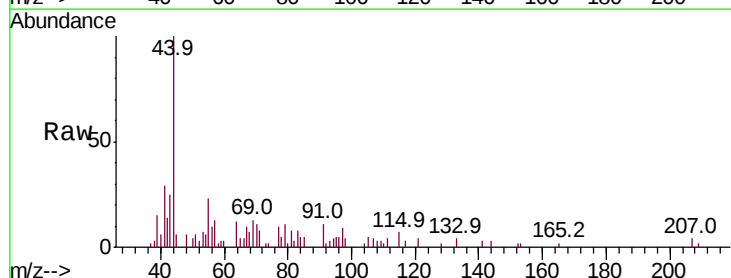
Tgt Ion: 53 Resp: 96

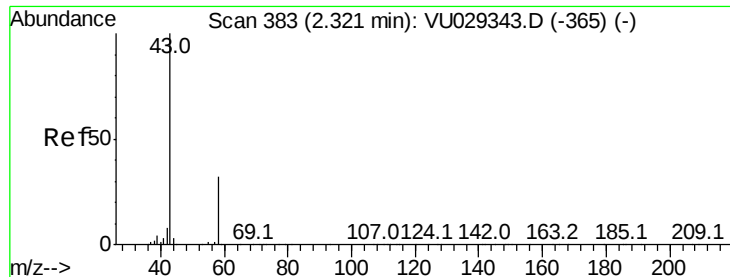
Ion Ratio Lower Upper

53 100

52 80.2 67.6 101.4

51 0.0 31.0 46.4#





#13

Acetone

Concen: 0.065 ug/l

RT: 2.46 min Scan# 425

Delta R.T. 0.14 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

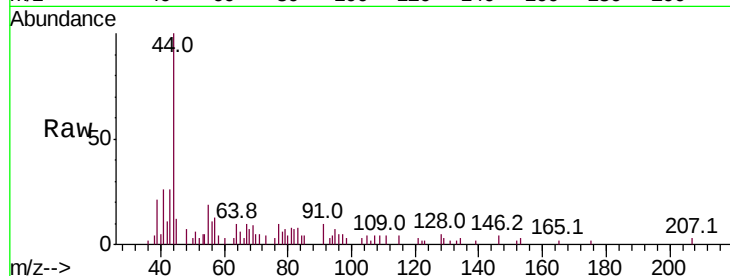
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 239

Ion Ratio Lower Upper

43 100

58 25.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1500

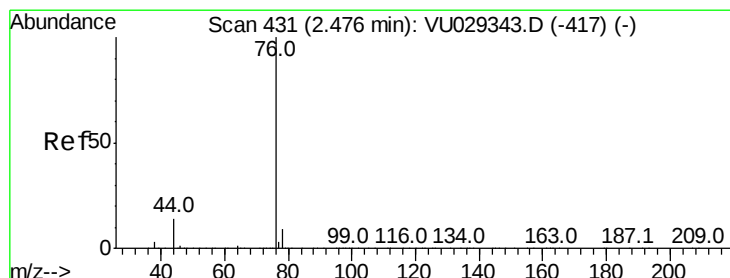
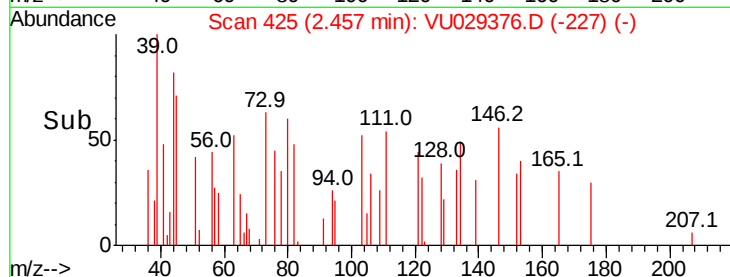
2.46

1000

500

0

Time-->



#14

Carbon Disulfide

Concen: 0.015 ug/l

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029376.D

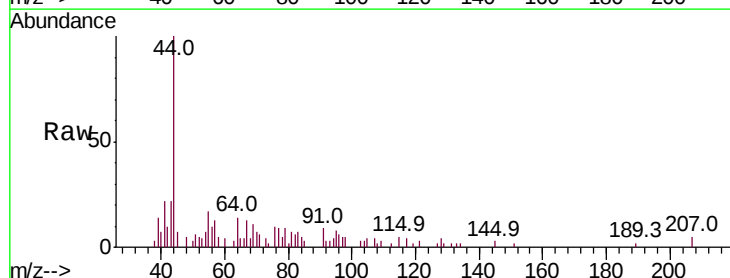
Acq: 08 Feb 2019 13:34

Tgt Ion: 76 Resp: 911

Ion Ratio Lower Upper

76 100

78 5.9 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

600

500

400

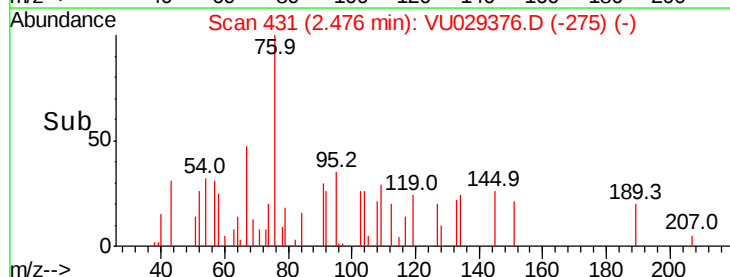
300

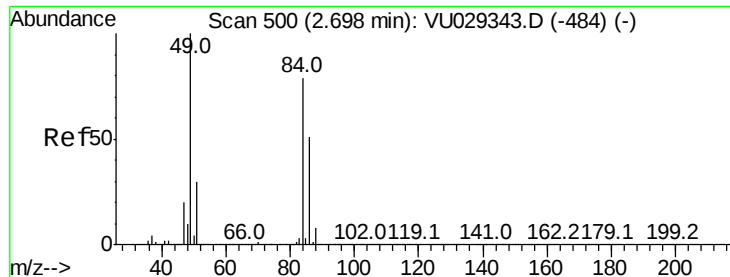
200

100

0

Time-->

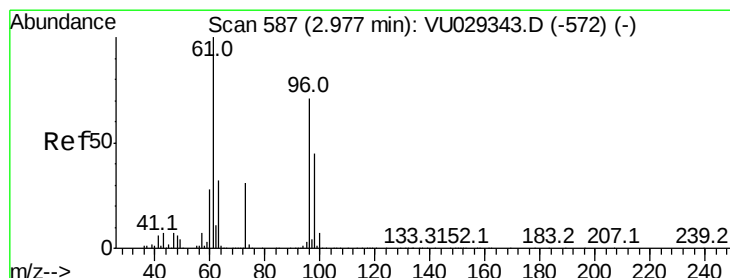
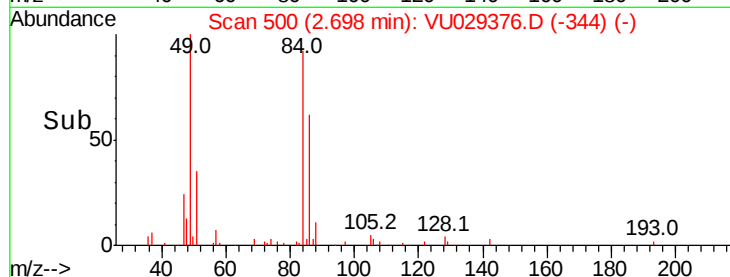
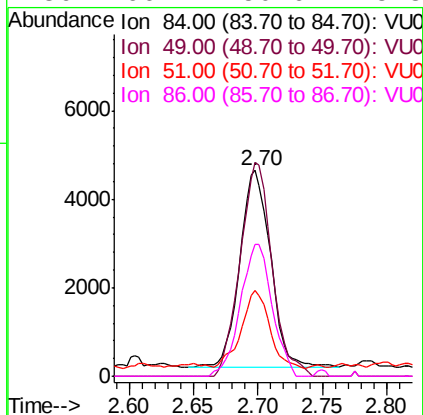
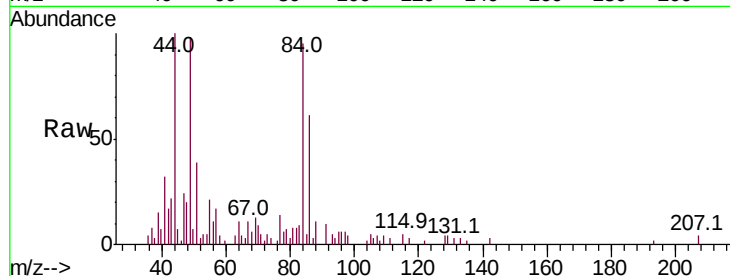




#15
Methvlene Chloride
Concen: 0.363 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

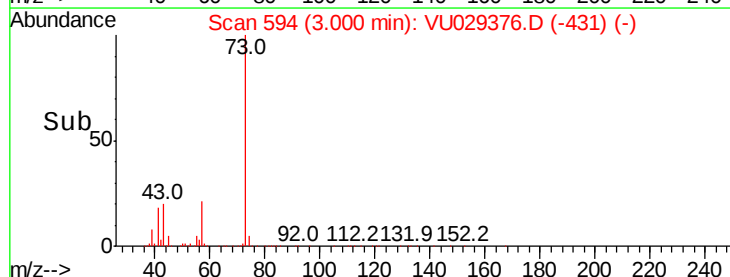
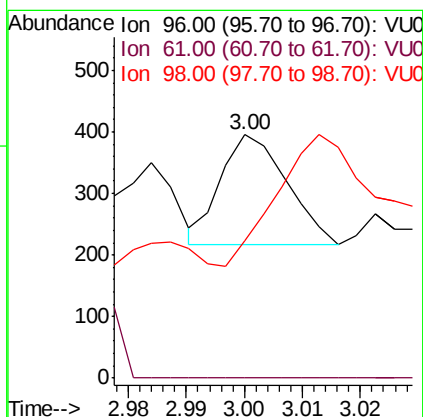
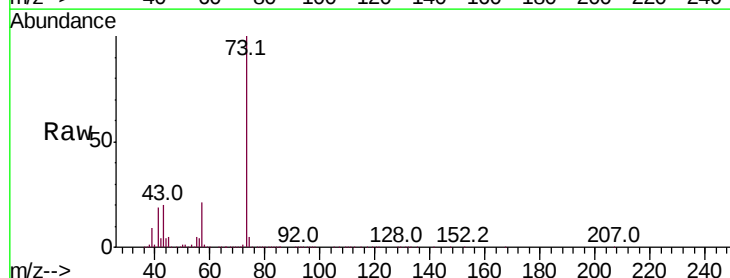
Instrument :
MSVOA_U
ClientSampleId :

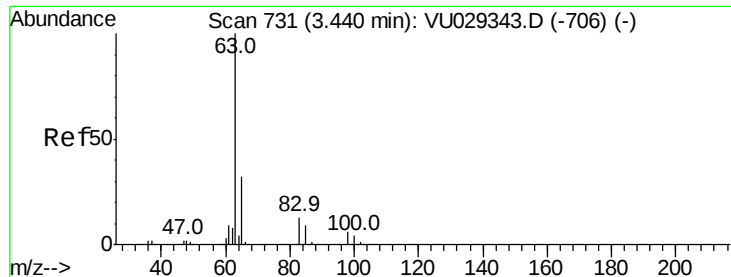
Tot Ion: 84 Resp: 7486
Ion Ratio Lower Upper
84 100
49 108.1 127.0 190.6#
51 37.4 0.0 93.4
86 66.7 50.6 75.8



#16
trans-1,2-Dichloroethene
Concen: 0.007 ug/l
RT: 3.00 min Scan# 594
Delta R.T. 0.02 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Tgt Ion: 96 Resp: 139
Ion Ratio Lower Upper
96 100
61 0.0 140.6 210.8#
98 7.9 49.3 73.9#





#17

1,1-Dichloroethane

Concen: 0.008 ug/l

RT: 3.39 min Scan# 714

Delta R.T. -0.05 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :
MSVOA_U
ClientSampled :

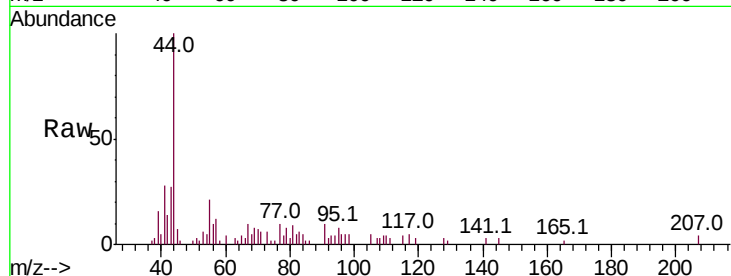
Tot Ion: 63 Resp: 235

Ion Ratio Lower Upper

63 100

98 31.2 2.9 8.8#

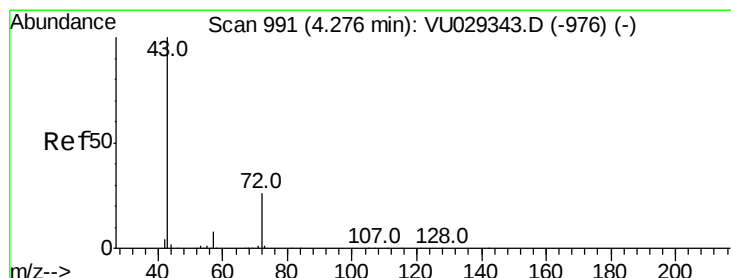
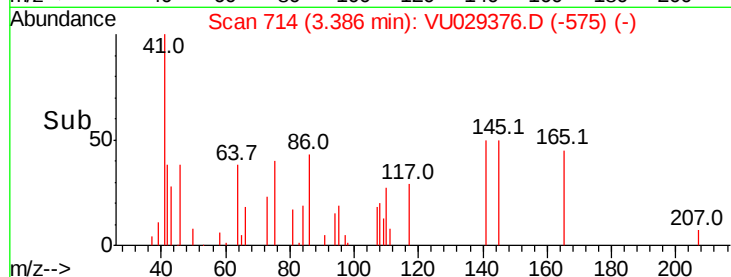
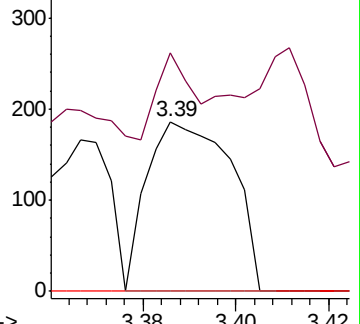
100 0.0 1.7 5.1#



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: 9.556 ug/l

RT: 4.07 min Scan# 928

Delta R.T. -0.20 min

Lab File: VU029376.D

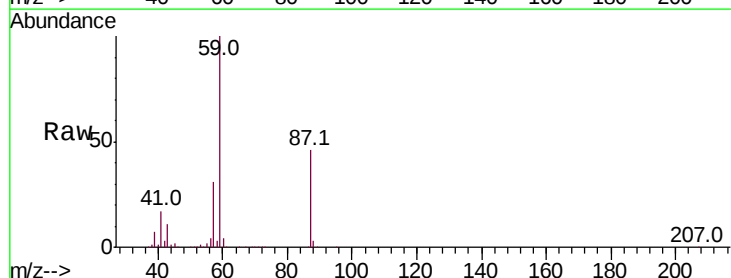
Acq: 08 Feb 2019 13:34

Tgt Ion: 43 Resp: 39256

Ion Ratio Lower Upper

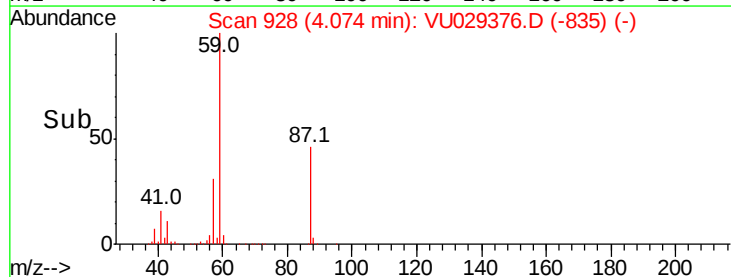
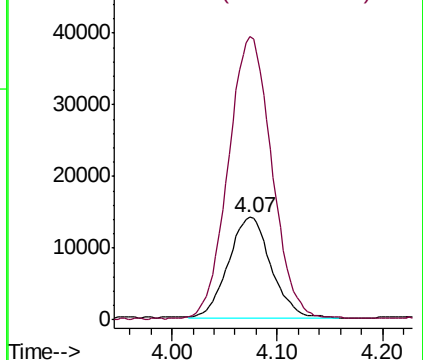
43 100

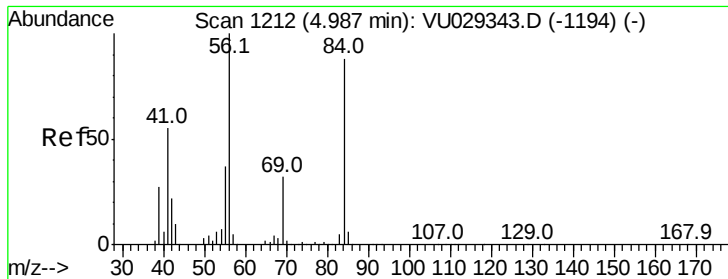
57 278.1 0.0 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

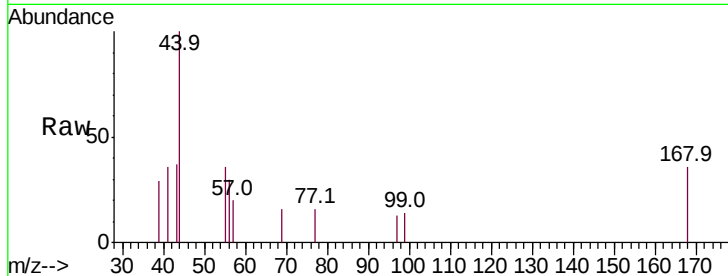




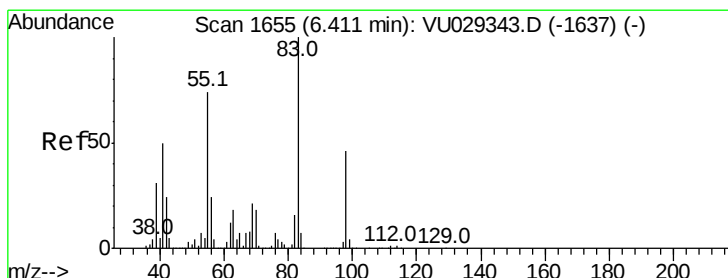
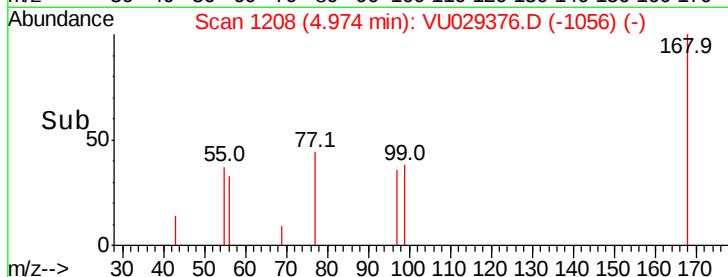
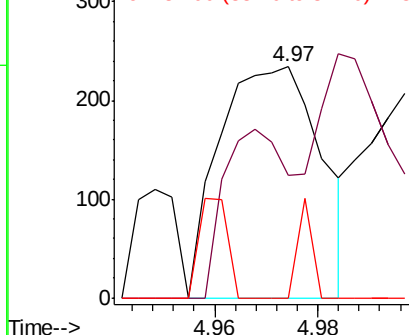
#19
Cyclohexane
Concen: 0.011 ug/l
RT: 4.97 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 318
Ion Ratio Lower Upper
56 100
69 26.4 26.8 40.2#
84 6.0 71.5 107.3#

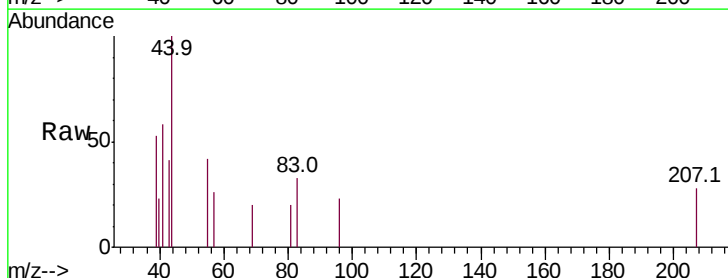


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

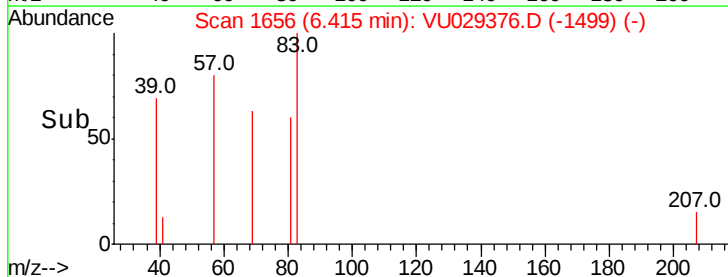
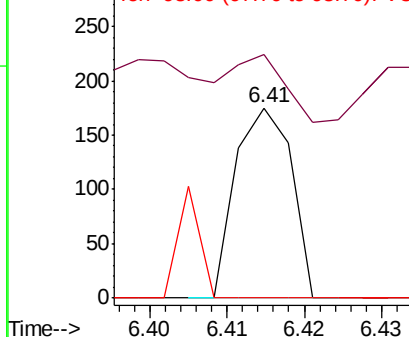


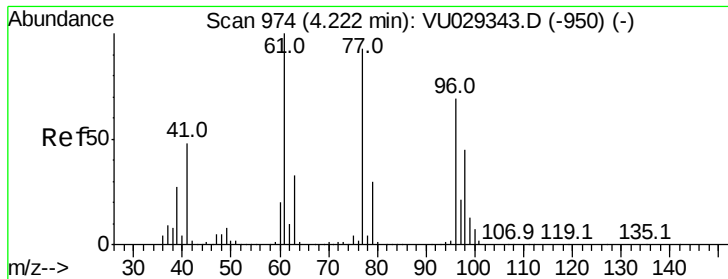
#20
Methylcyclohexane
Concen: 0.003 ug/l
RT: 6.41 min Scan# 1656
Delta R.T. 0.00 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Tgt Ion: 83 Resp: 88
Ion Ratio Lower Upper
83 100
55 27.3 72.4 108.6#
98 22.7 36.6 54.8#



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0





#21

2,2-Dichloropropane

Concen: 0.004 ug/l

RT: 4.13 min Scan# 944

Delta R.T. -0.10 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

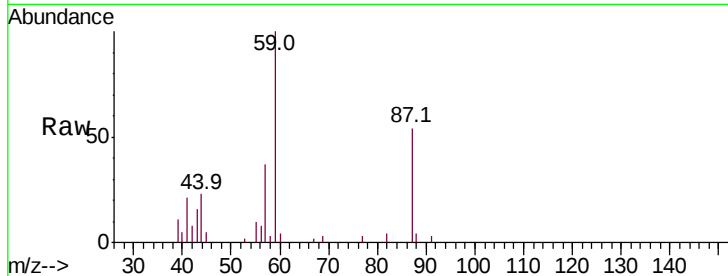
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 77 Resp: 109

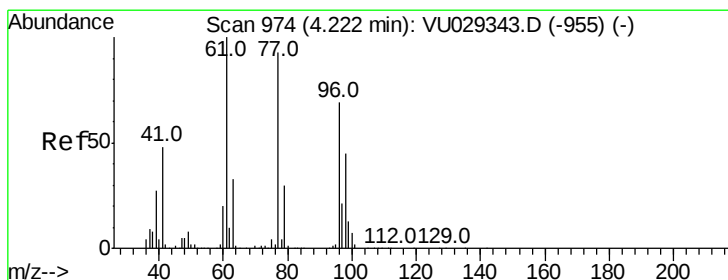
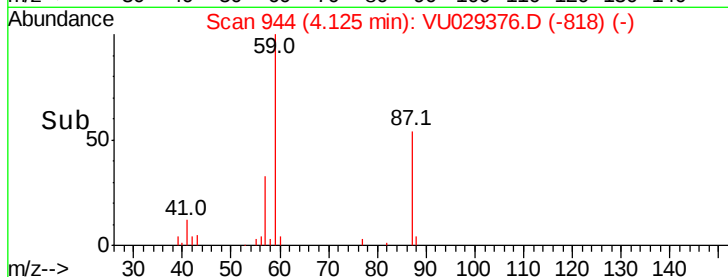
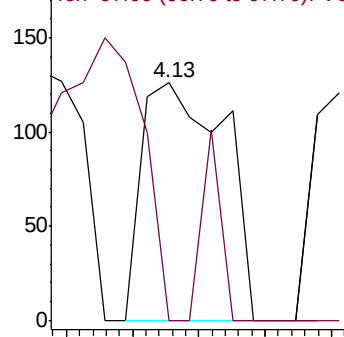
Ion Ratio Lower Upper

77 100

97 17.4 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: 0.004 ug/l

RT: 4.20 min Scan# 967

Delta R.T. -0.02 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

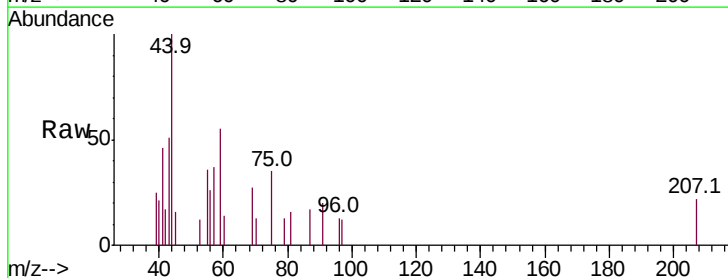
Tgt Ion: 96 Resp: 63

Ion Ratio Lower Upper

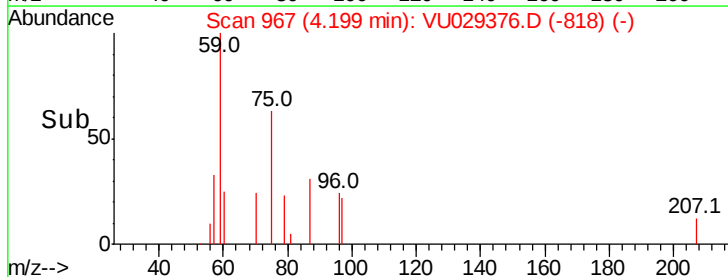
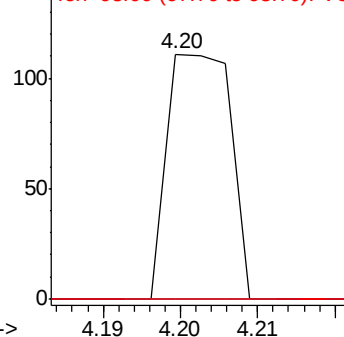
96 100

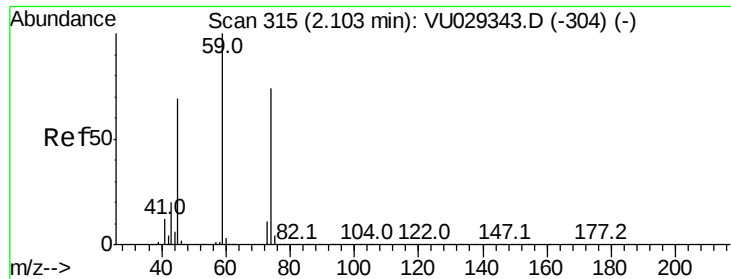
61 130.2 0.0 460.0

98 68.3 32.6 97.7



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

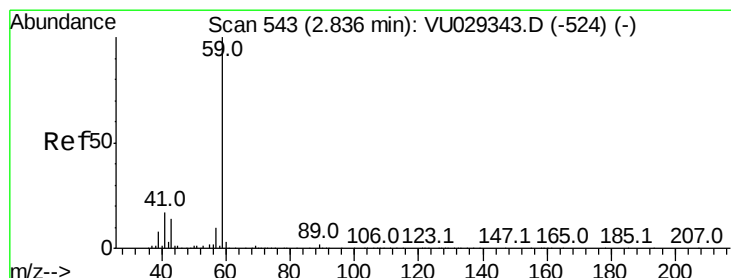
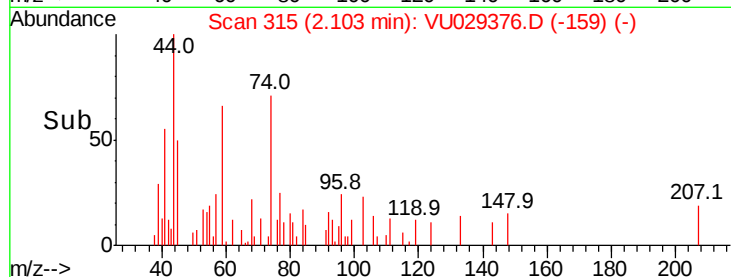
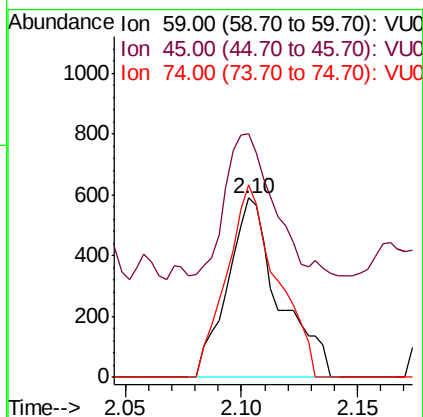
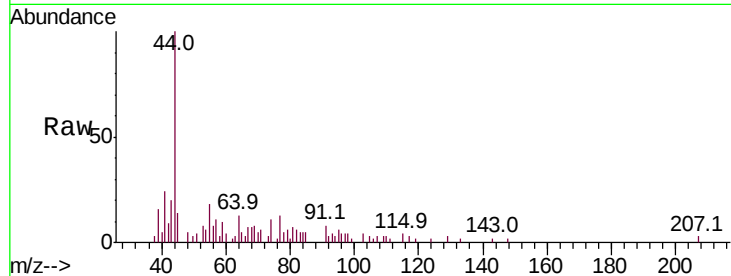




#23
Diethyl Ether
Concen: 0.066 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

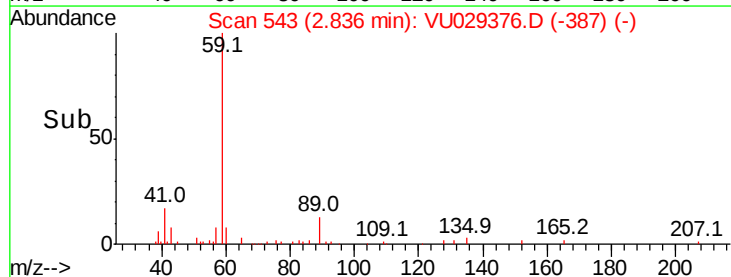
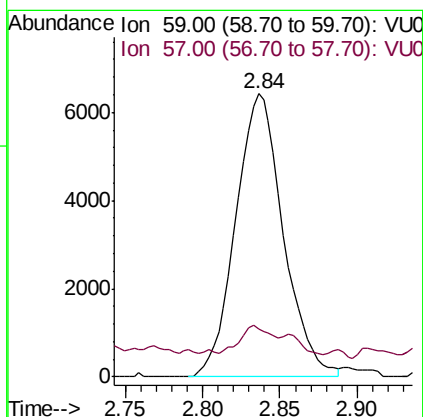
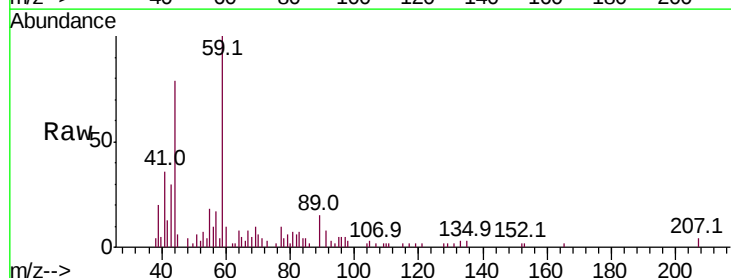
Instrument :
MSVOA_U
ClientSampled :

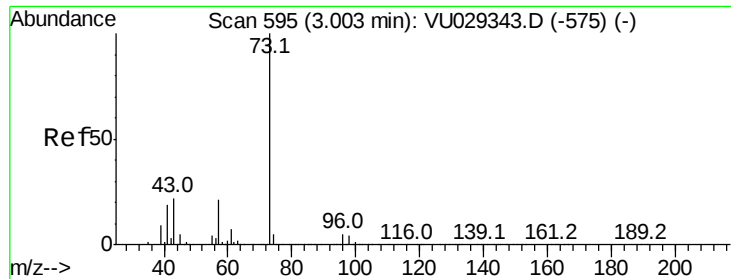
Tot Ion: 59 Resp: 908
Ion Ratio Lower Upper
59 100
45 74.4 64.2 96.4
74 104.7 55.3 82.9#



#24
tert-Butyl Alcohol
Concen: 9.671 ug/l
RT: 2.84 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Tgt Ion: 59 Resp: 13733
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



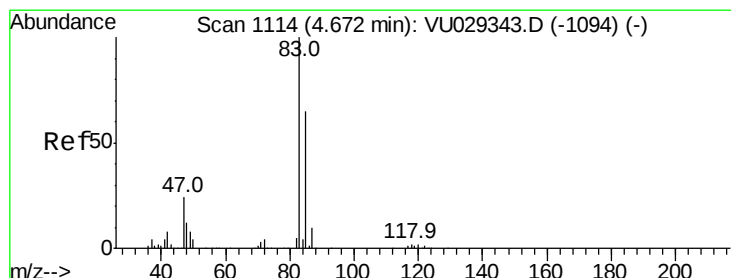
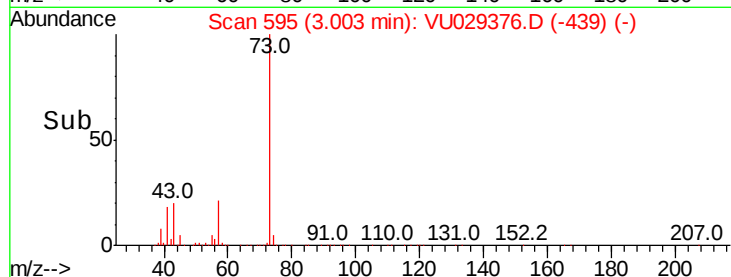
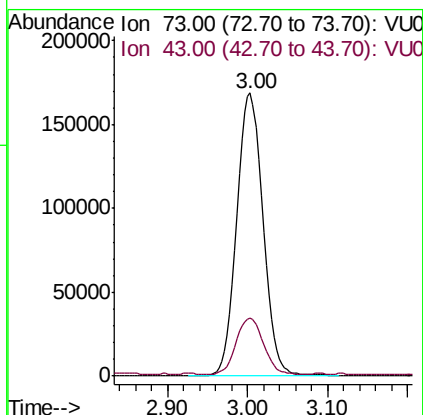
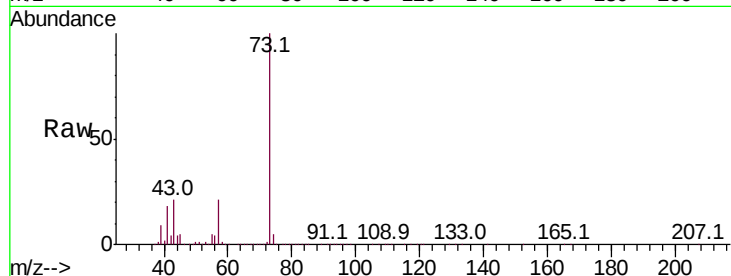


#25

Methvl tert-Butvl Ether
 Concen: 7.818 ug/l
 RT: 3.00 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VU029376.D
 Acq: 08 Feb 2019 13:34

Instrument :
 MSVOA_U
 ClientSampleId :

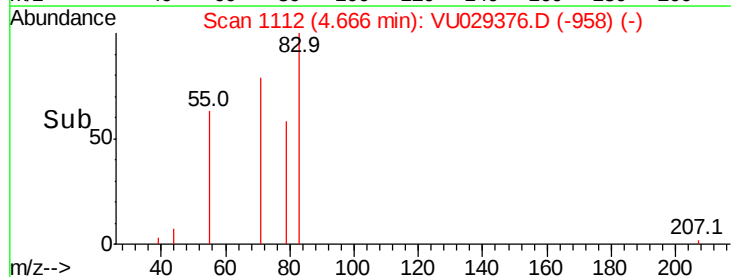
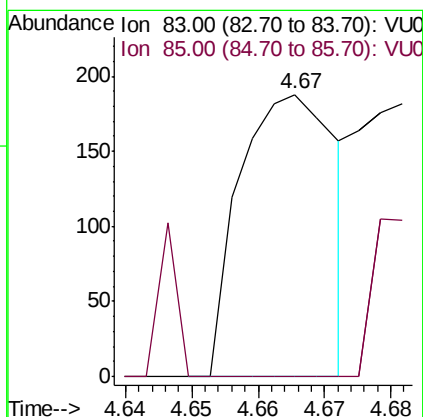
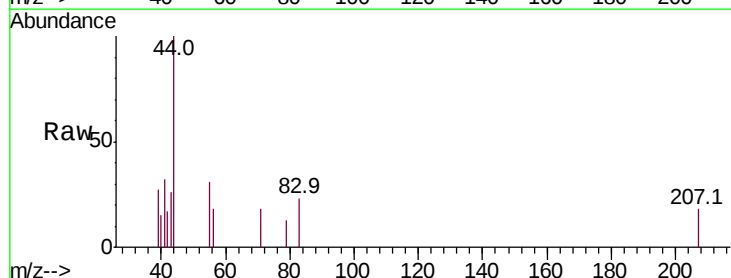
Tot Ion: 73 Resp: 374554
 Ion Ratio Lower Upper
 73 100
 43 20.2 22.1 33.1#

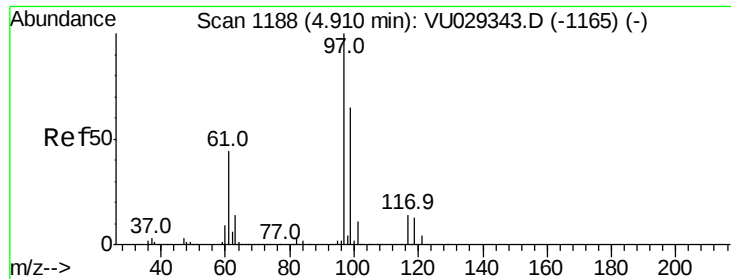


#27

Chloroform
 Concen: 0.006 ug/l
 RT: 4.67 min Scan# 1112
 Delta R.T. -0.01 min
 Lab File: VU029376.D
 Acq: 08 Feb 2019 13:34

Tgt Ion: 83 Resp: 188
 Ion Ratio Lower Upper
 83 100
 85 0.0 0.0 126.6

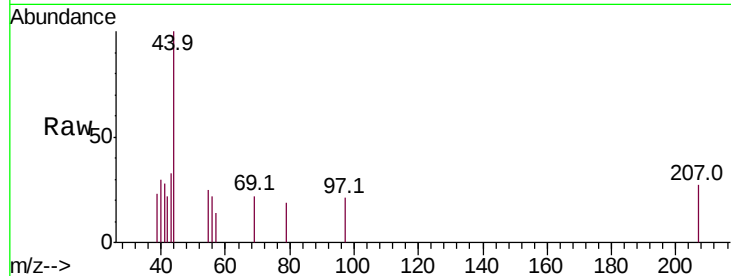




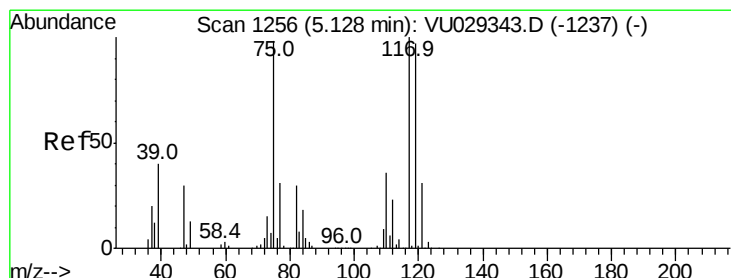
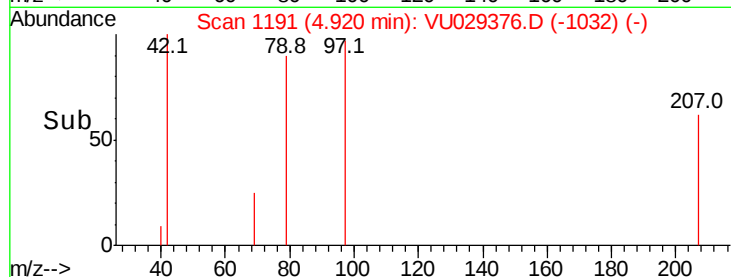
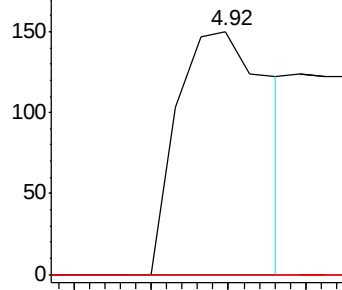
#28
 1,1,1-Trichloroethane
 Concen: 0.005 ug/l
 RT: 4.92 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VU029376.D
 Acq: 08 Feb 2019 13:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	32.4	97.2#
61	0.0	24.4	73.2#

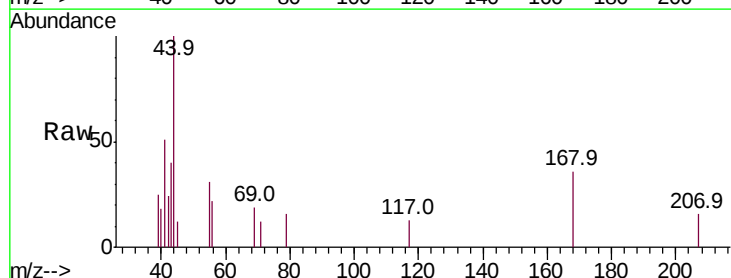


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0

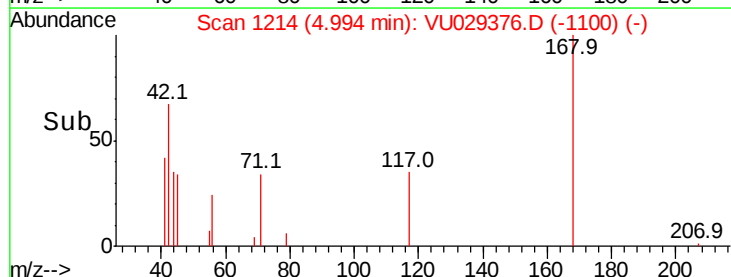
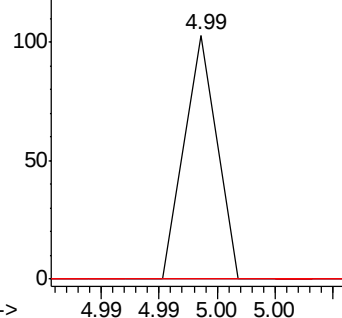


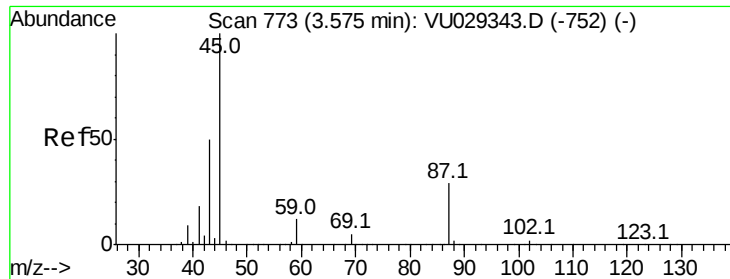
#30
 Carbon Tetrachloride
 Concen: 0.001 ug/l
 RT: 4.99 min Scan# 1214
 Delta R.T. -0.13 min
 Lab File: VU029376.D
 Acq: 08 Feb 2019 13:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	76.8	115.2#
121	0.0	24.4	36.6#



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V





#31

Isopropyl Ether

Concen: 8.299 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

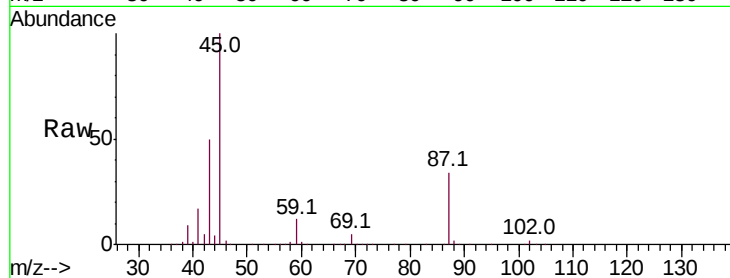
ClientSampleId :

Tot Ion: 45 Resp: 377584

Ion Ratio Lower Upper

45 100

43 50.0 28.4 85.3



Abundance Ion 45.00 (44.70 to 45.70): VU029343.D (-752) (-)

Ion 43.00 (42.70 to 43.70): VU029343.D (-752) (-)

3.58

150000

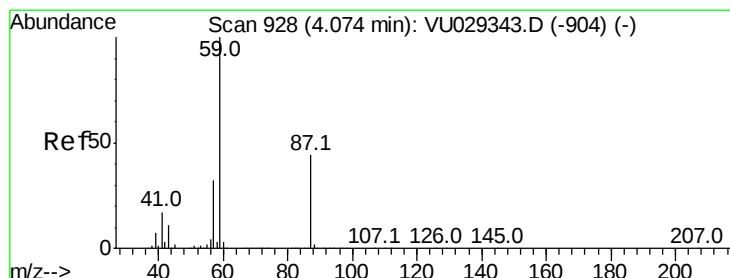
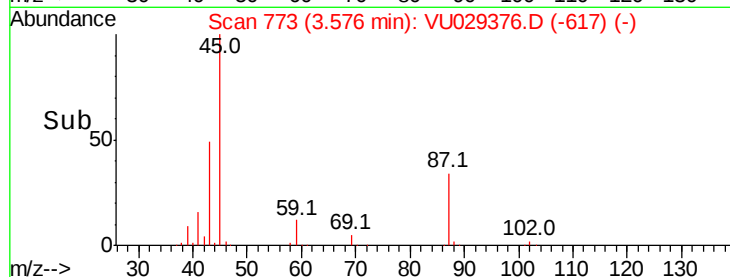
100000

50000

0

Time-->

3.50 3.60 3.70



#32

Ethyl-t-butyl ether

Concen: 7.769 ug/l

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VU029376.D

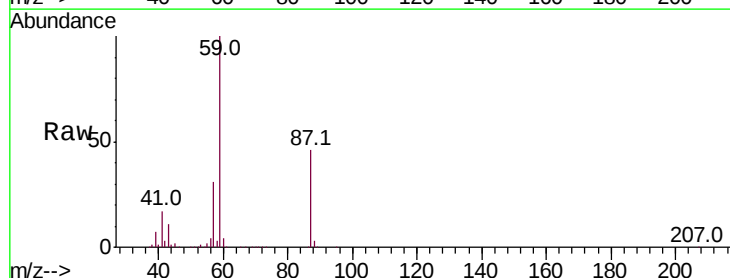
Acq: 08 Feb 2019 13:34

Tgt Ion: 59 Resp: 354238

Ion Ratio Lower Upper

59 100

87 46.7 31.1 46.7#



Abundance Ion 59.00 (58.70 to 59.70): VU029343.D (-904) (-)

Ion 87.00 (86.70 to 87.70): VU029343.D (-904) (-)

4.07

150000

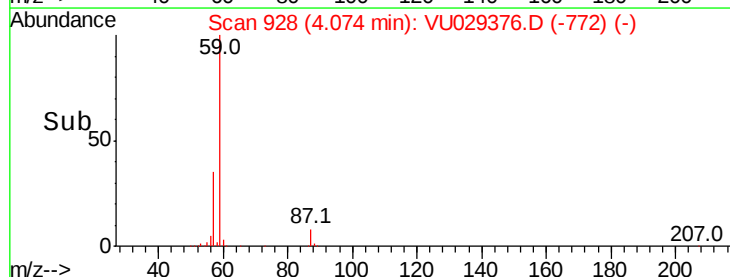
100000

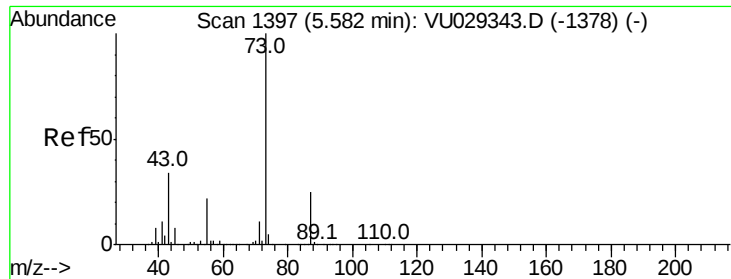
50000

0

Time-->

4.00 4.10 4.20





#33

Tert-Amvl methvl ether

Concen: 9.785 ug/l

RT: 5.58 min Scan# 1397

Delta R.T. 0.00 min

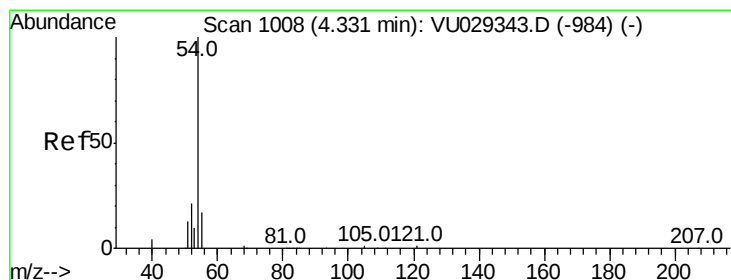
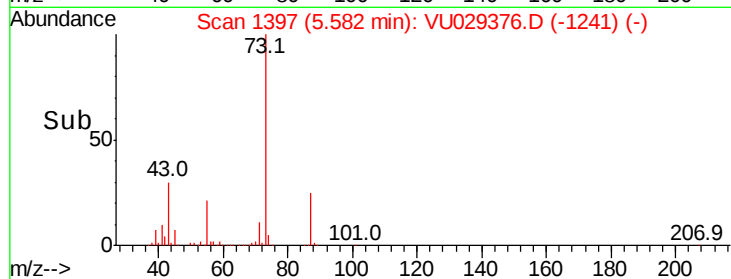
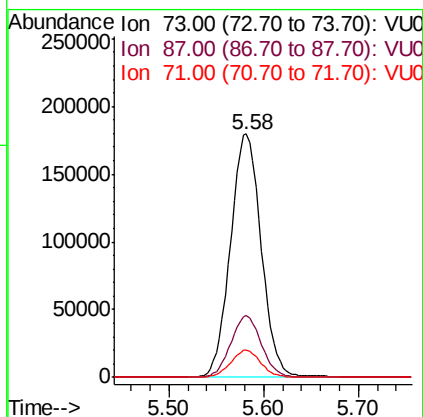
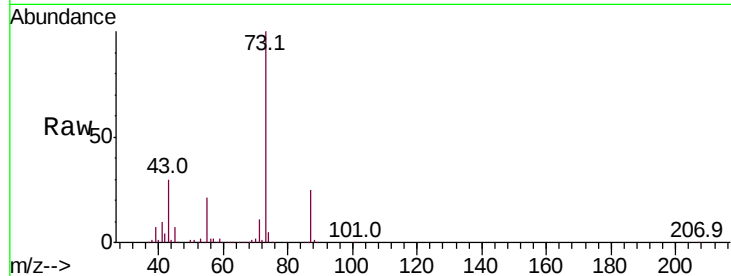
Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 403416

Ion	Ratio	Lower	Upper
73	100		
87	25.3	19.4	29.0
71	11.0	9.0	13.4



#34

Propionitrile

Concen: 0.044 ug/l

RT: 4.31 min Scan# 1000

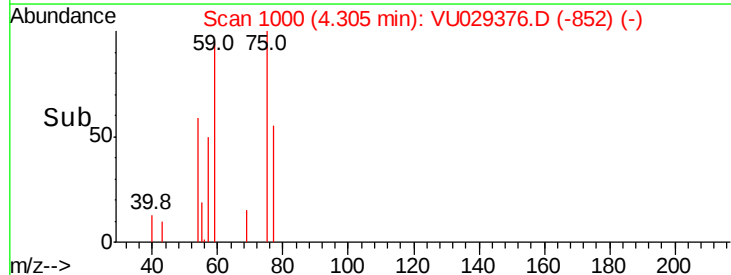
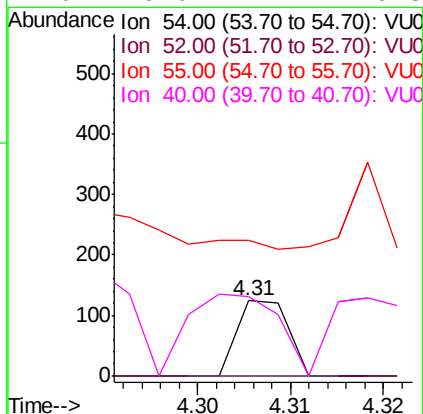
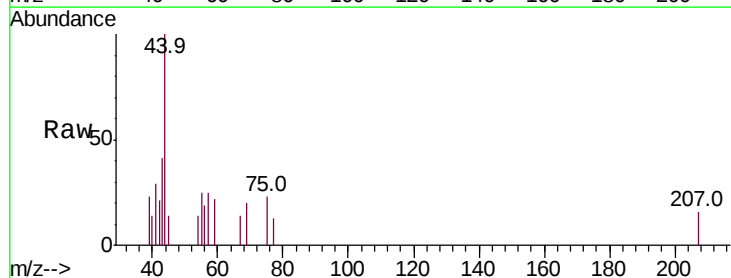
Delta R.T. -0.03 min

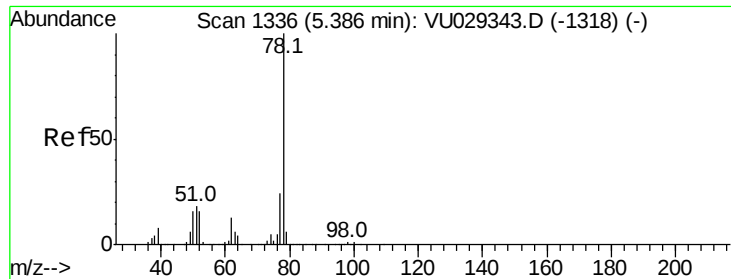
Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Tgt Ion: 54 Resp: 47

Ion	Ratio	Lower	Upper
54	100		
52	0.0	18.9	28.3#
55	0.0	15.1	22.7#
40	0.0	7.2	10.8#





#35

Benzene

Concen: 0.009 ug/l

RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

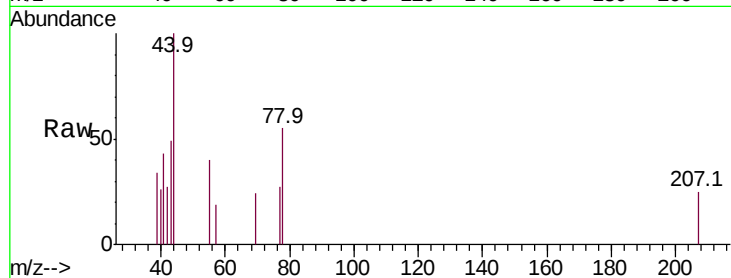
ClientSampleId :

Tot Ion: 78 Resp: 571

Ion Ratio Lower Upper

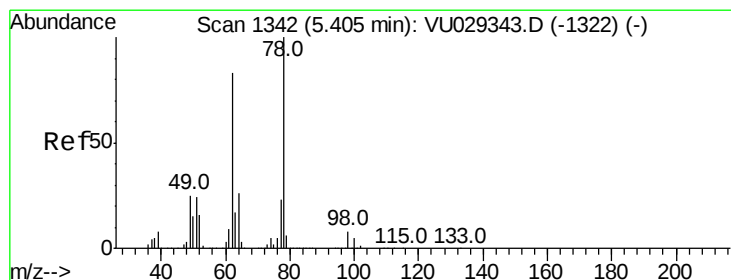
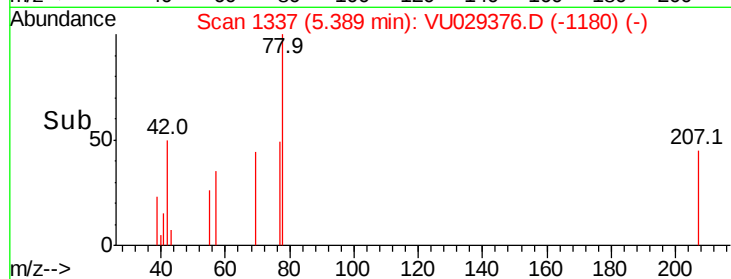
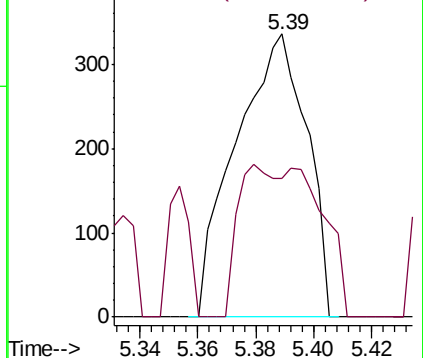
78 100

77 19.3 19.8 29.8#



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 0.002 ug/l

RT: 5.56 min Scan# 1390

Delta R.T. 0.15 min

Lab File: VU029376.D

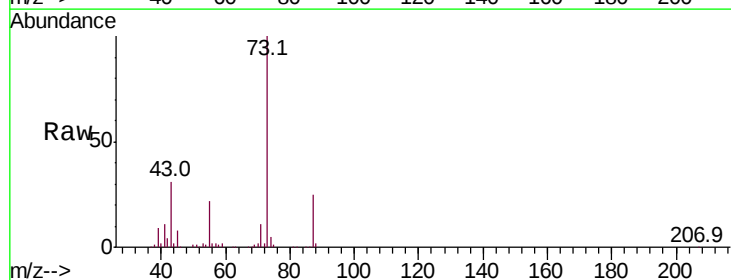
Acq: 08 Feb 2019 13:34

Tgt Ion: 62 Resp: 41

Ion Ratio Lower Upper

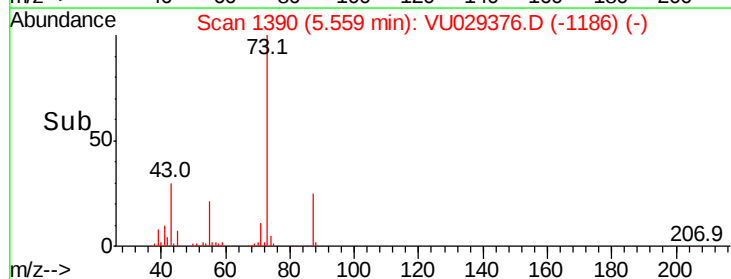
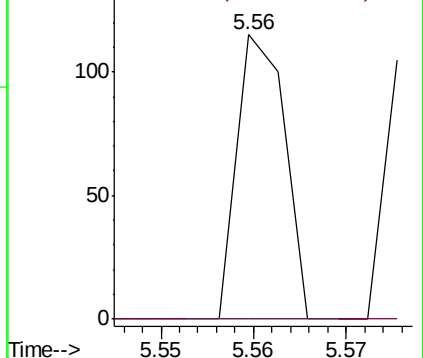
62 100

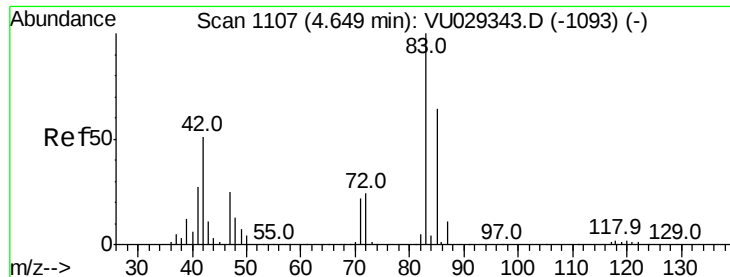
98 95.1 4.9 7.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#41

Tetrahydrofuran

Concen: 0.040 ug/l

RT: 4.64 min Scan# 1103

Delta R.T. -0.01 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :
MSVOA_U
ClientSampled :

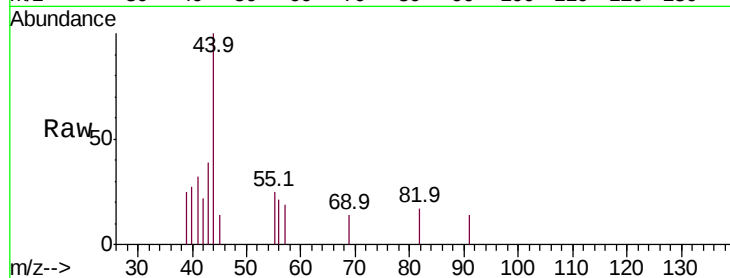
Tot Ion: 42 Resp: 111

Ion Ratio Lower Upper

42 100

72 0.0 33.1 49.7#

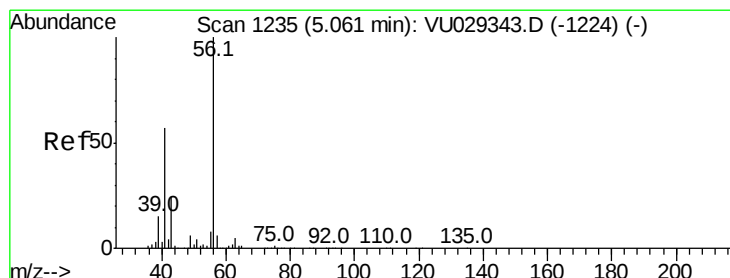
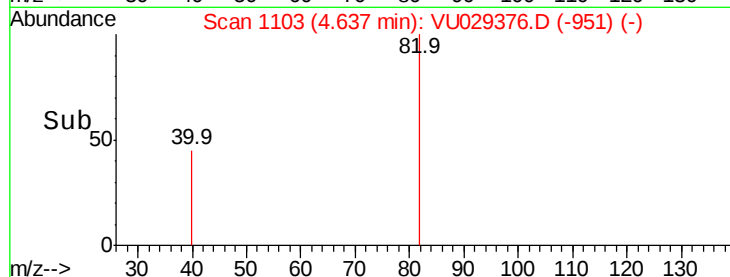
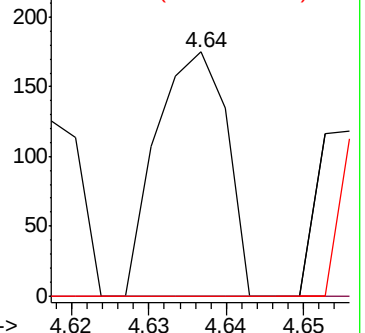
71 117.1 30.2 45.2#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#42

1-Chlorobutane

Concen: 0.009 ug/l

RT: 5.00 min Scan# 1216

Delta R.T. -0.06 min

Lab File: VU029376.D

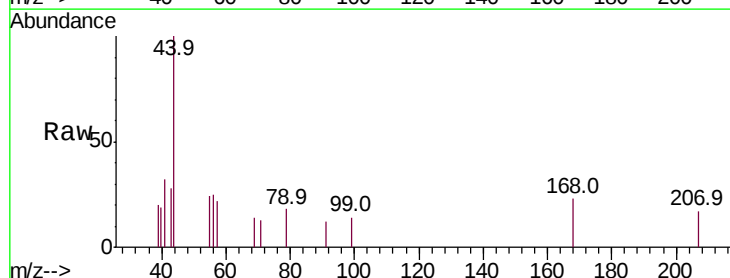
Acq: 08 Feb 2019 13:34

Tgt Ion: 56 Resp: 296

Ion Ratio Lower Upper

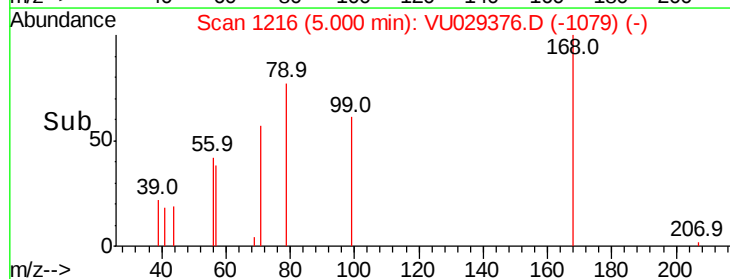
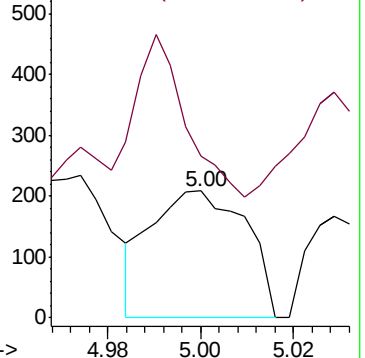
56 100

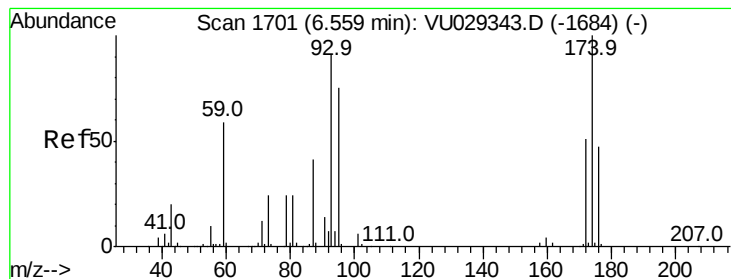
41 66.9 31.3 93.8



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 41.00 (40.70 to 41.70): VU0





#43

Dibromomethane

Concen: 0.002 ug/l

RT: 6.77 min Scan# 1766

Delta R.T. 0.21 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampled :

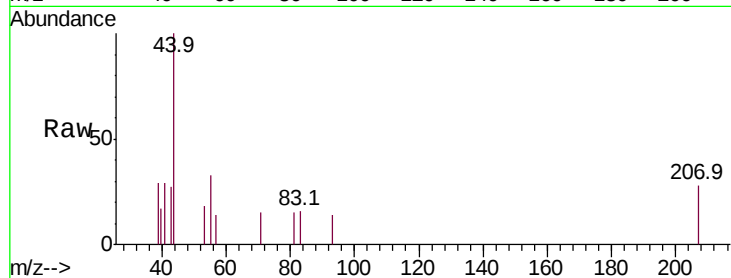
Tot Ion: 93 Resp: 19

Ion Ratio Lower Upper

93 100

95 226.3 68.2 102.2#

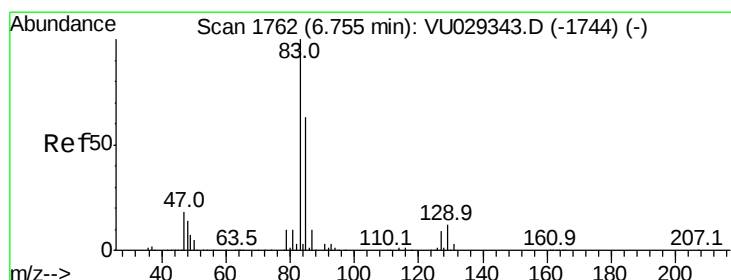
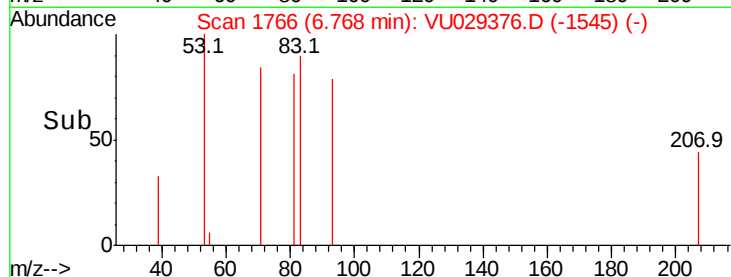
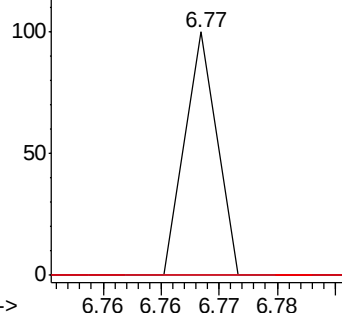
174 0.0 77.6 116.4#



Abundance Ion 93.00 (92.70 to 93.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V



#44

Bromodichloromethane

Concen: 0.008 ug/l

RT: 6.76 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

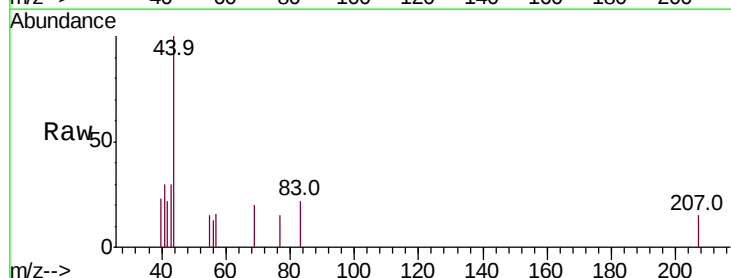
Tgt Ion: 83 Resp: 184

Ion Ratio Lower Upper

83 100

85 0.0 49.2 73.8#

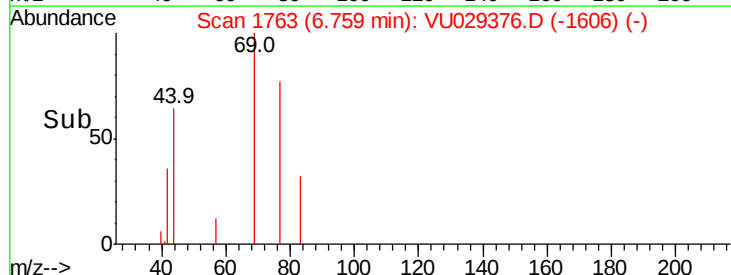
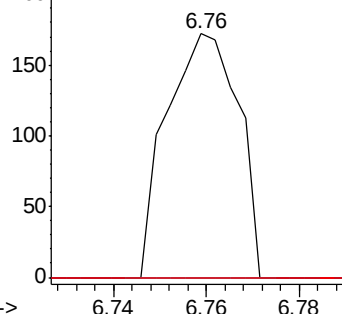
127 0.0 7.0 10.6#

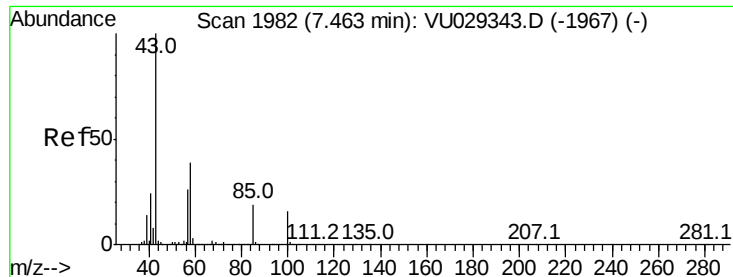


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V





#45

4-Methyl-2-Pentanone

Concen: 0.003 ug/l

RT: 7.46 min Scan# 1981

Delta R.T. -0.00 min

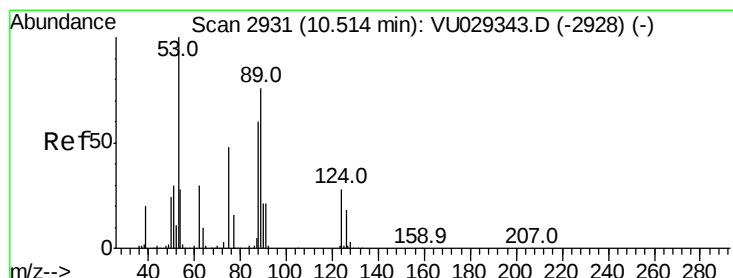
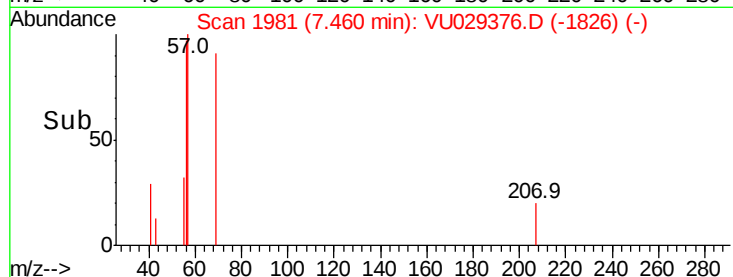
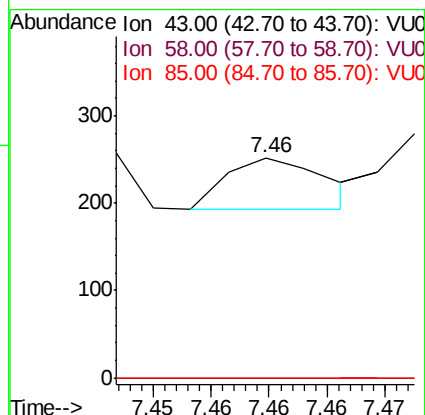
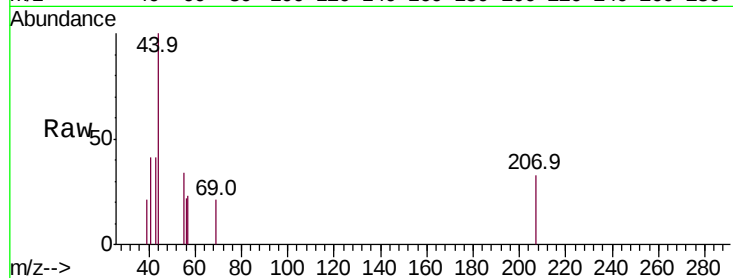
Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 35

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	52.8#
85	0.0	12.3	18.5#



#46

t-1,4-Dichloro-2-butene

Concen: 0.918 ug/l

RT: 10.58 min Scan# 2953

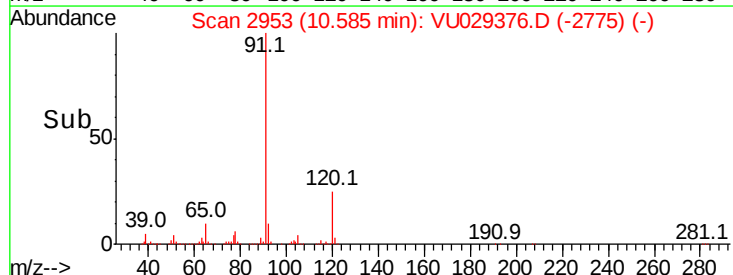
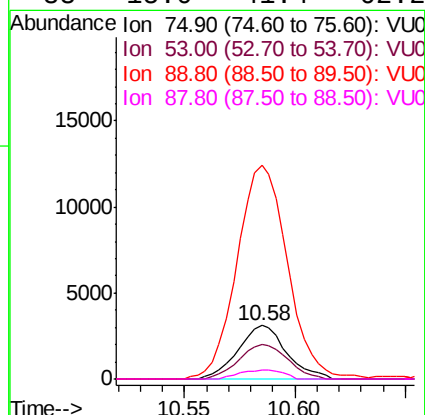
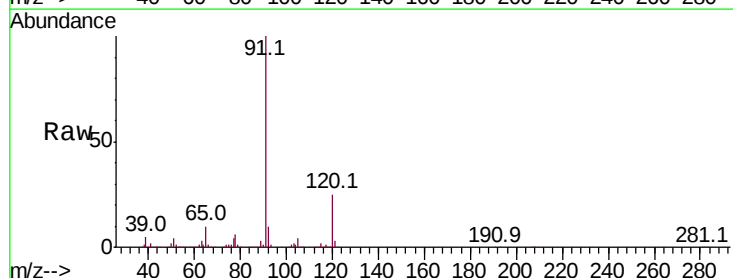
Delta R.T. 0.07 min

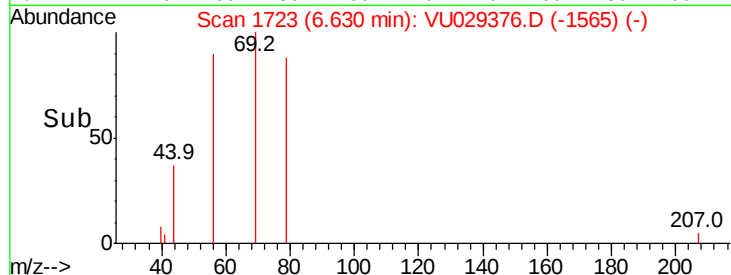
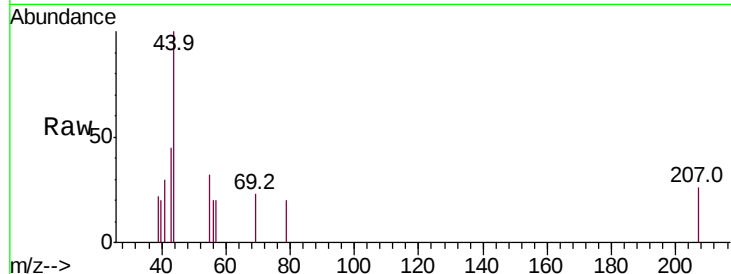
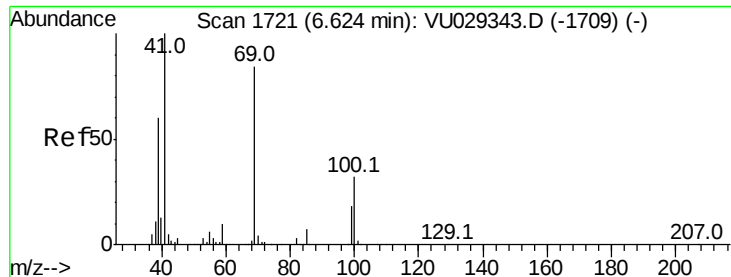
Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Tgt Ion: 75 Resp: 4743

Ion	Ratio	Lower	Upper
75	100		
53	65.4	78.2	117.4#
89	418.3	44.2	66.4#
88	15.0	41.4	62.2#

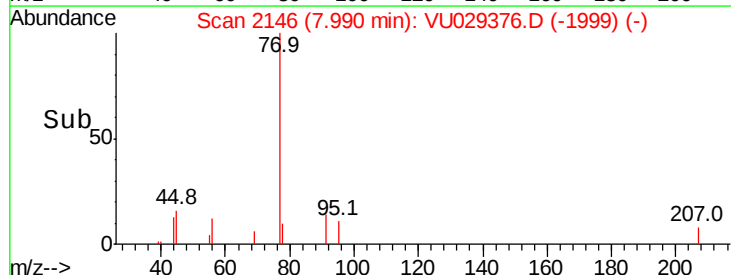
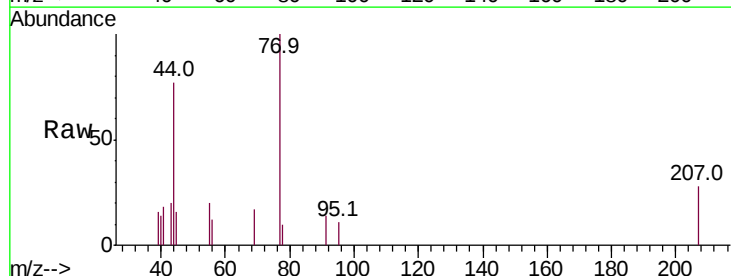
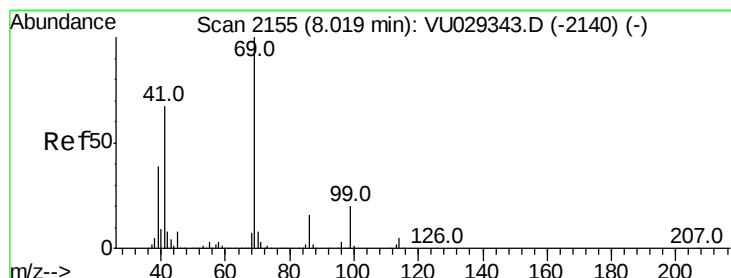
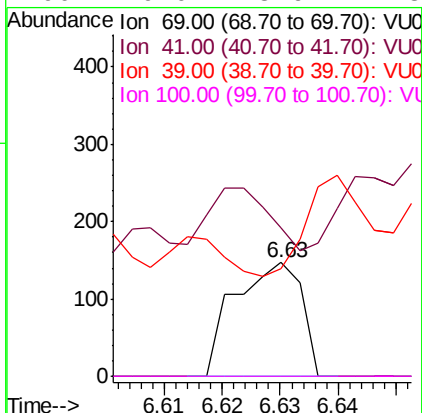




#47
Methyl methacrylate
Concen: 0.015 ug/l
RT: 6.63 min Scan# 1723
Delta R.T. 0.01 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

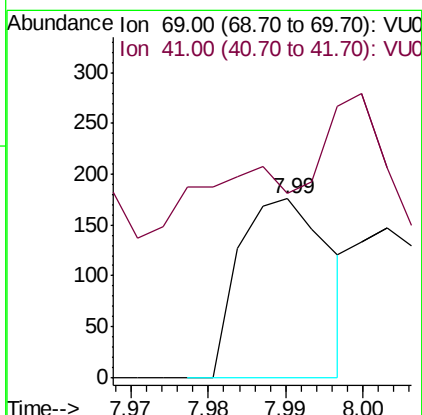
Instrument :
MSVOA_U
ClientSampleId :

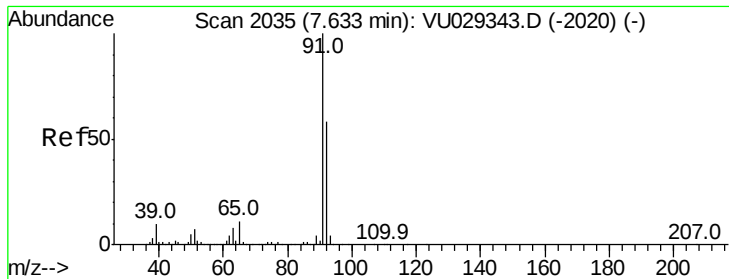
Tot Ion: 69 Resp: 117
Ion Ratio Lower Upper
69 100
41 48.7 0.0 296.2
39 84.6 71.2 106.8
100 0.0 28.6 42.8#



#48
Ethyl methacrylate
Concen: 0.008 ug/l
RT: 7.99 min Scan# 2146
Delta R.T. -0.03 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Tgt Ion: 69 Resp: 143
Ion Ratio Lower Upper
69 100
41 102.8 39.9 119.7





#49

Toluene

Concen: 0.002 ug/l

RT: 7.64 min Scan# 2038

Delta R.T. 0.01 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

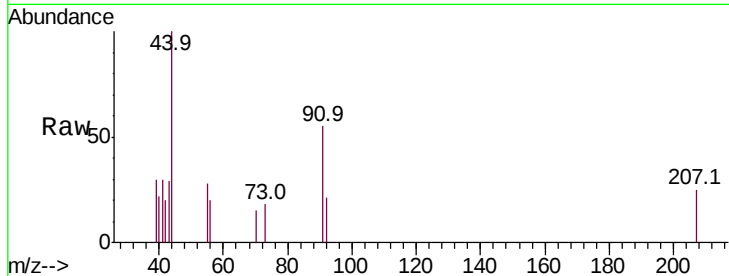
ClientSampled :

Tot Ion: 92 Resp: 96

Ion Ratio Lower Upper

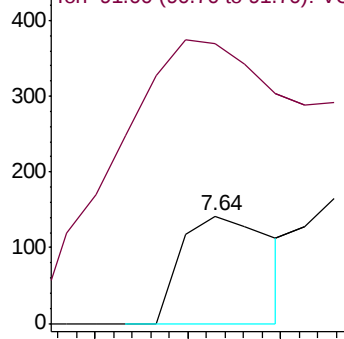
92 100

91 755.2 140.7 211.1#

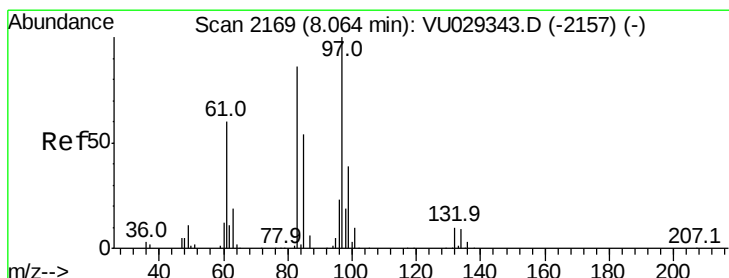
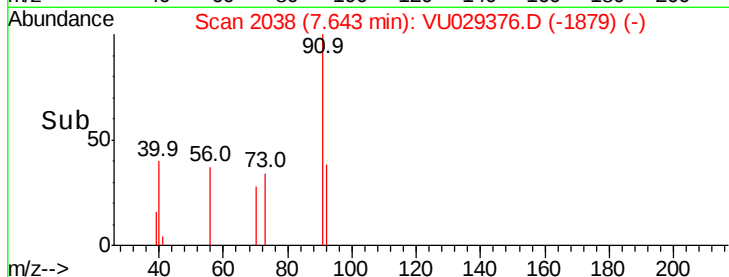


Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#52

1,1,2-Trichloroethane

Concen: 0.003 ug/l

RT: 8.07 min Scan# 2172

Delta R.T. 0.01 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Tgt Ion: 97 Resp: 40

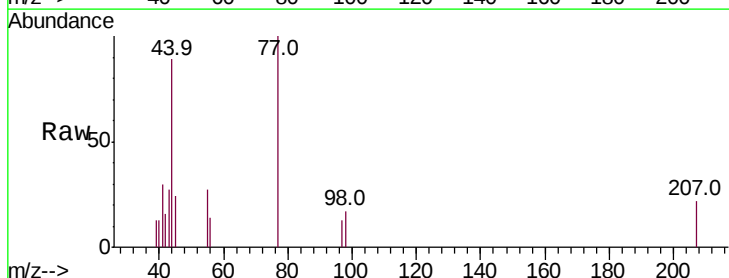
Ion Ratio Lower Upper

97 100

83 0.0 69.9 104.9#

85 0.0 45.8 68.6#

99 0.0 50.2 75.2#

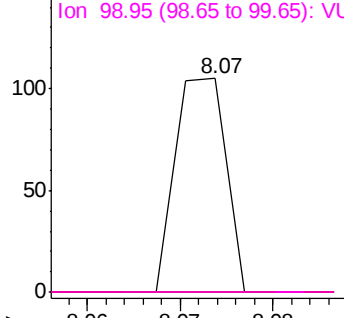


Abundance Ion 97.00 (96.70 to 97.70): VU0

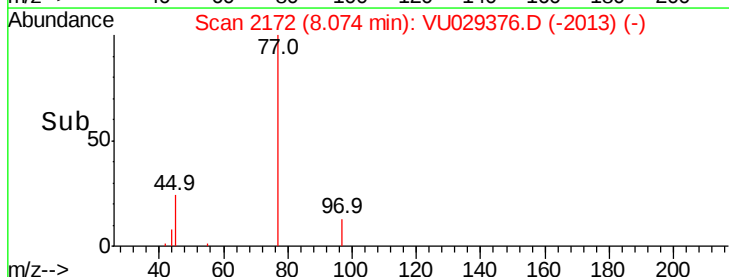
Ion 82.95 (82.65 to 83.65): VU0

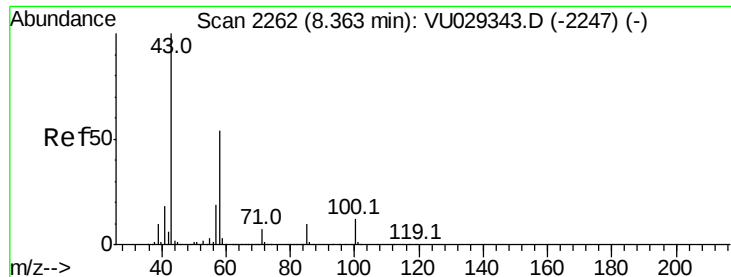
Ion 84.95 (84.65 to 85.65): VU0

Ion 98.95 (98.65 to 99.65): VU0



Time-->

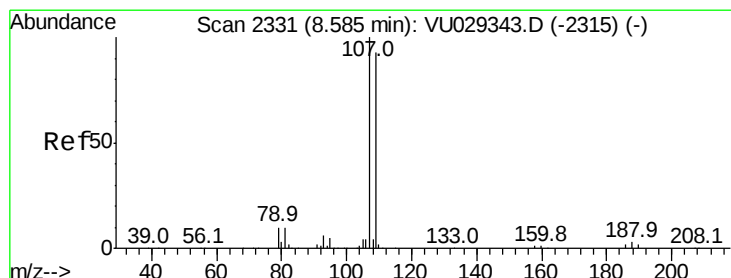
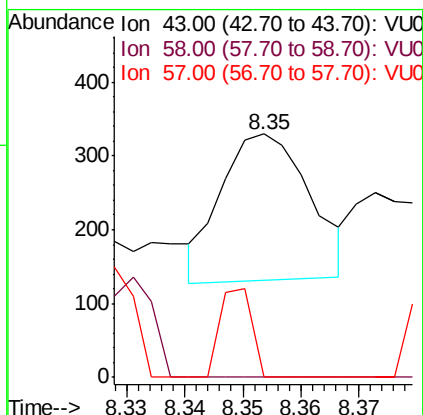
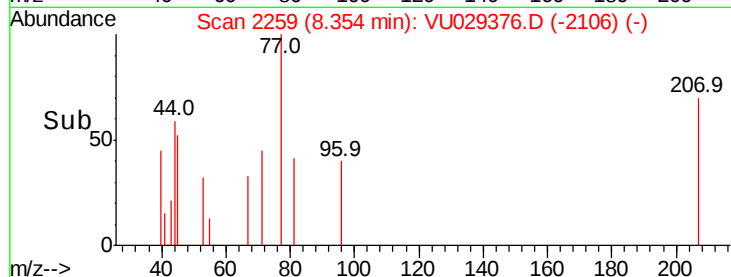
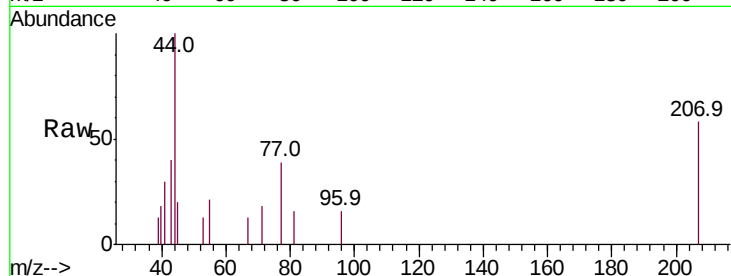




#54
2-Hexanone
Concen: 0.028 ug/l
RT: 8.35 min Scan# 2259
Delta R.T. -0.01 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

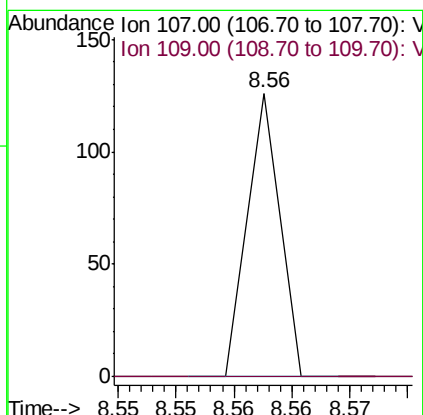
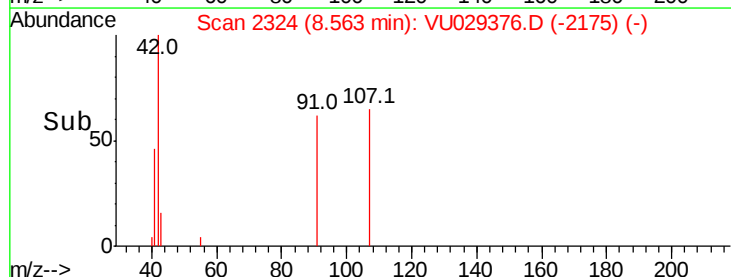
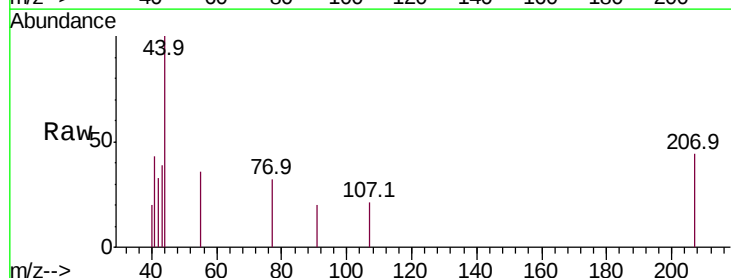
Instrument :
MSVOA_U
ClientSampleId :

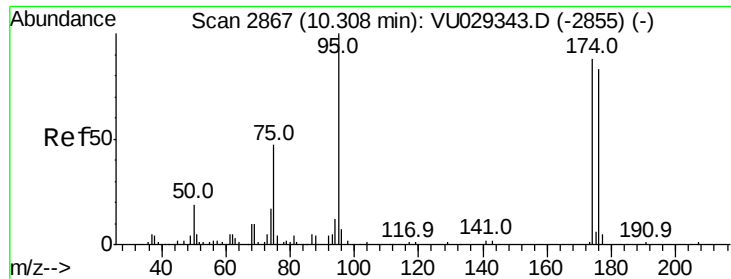
Tot Ion: 43 Resp: 210
Ion Ratio Lower Upper
43 100
58 0.0 26.0 66.0#
57 21.4 0.0 37.7



#56
1,2-Dibromoethane
Concen: 0.002 ug/l
RT: 8.56 min Scan# 2324
Delta R.T. -0.02 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Tgt Ion: 107 Resp: 24
Ion Ratio Lower Upper
107 100
109 0.0 0.0 189.6





#57

4-Bromofluorobenzene

Concen: 0.002 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampleId :

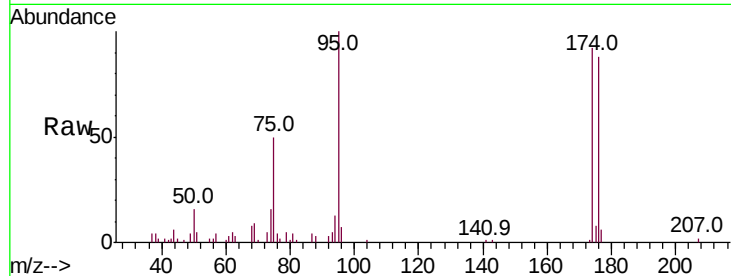
Tot Ion: 95 Resp: 21690

Ion Ratio Lower Upper

95 100

174 94.9 64.2 96.2

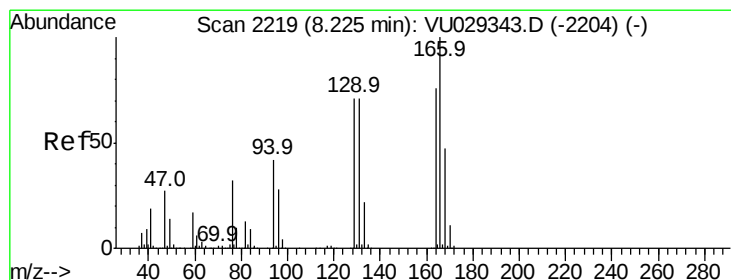
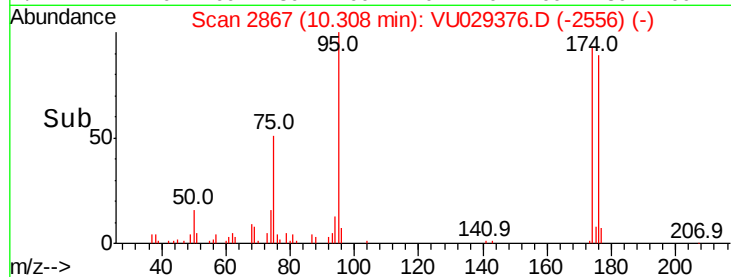
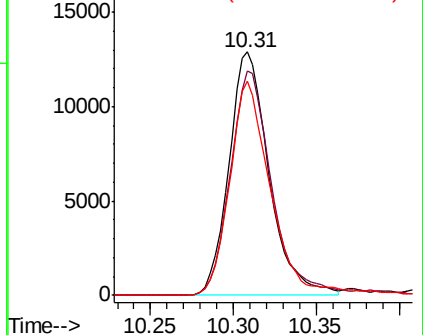
176 90.7 62.3 93.5



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



#58

Tetrachloroethene

Concen: 0.002 ug/l

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Tgt Ion: 164 Resp: 41

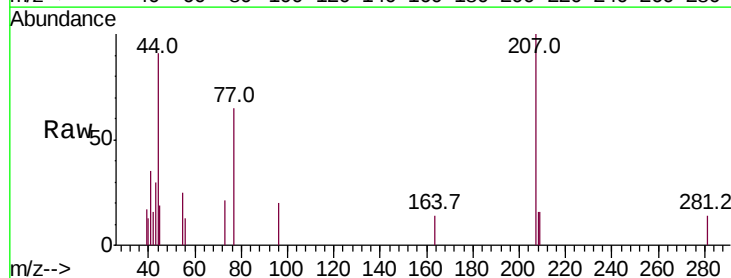
Ion Ratio Lower Upper

164 100

166 0.0 106.6 159.8#

129 0.0 79.9 119.9#

131 0.0 75.8 113.8#

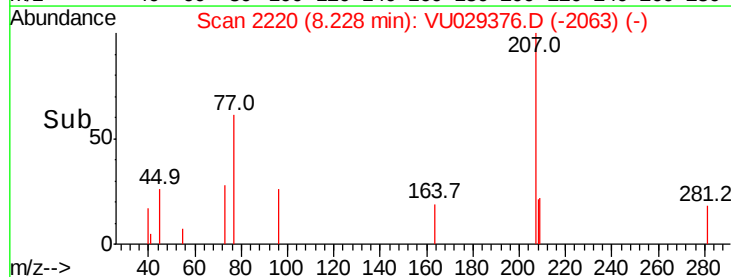
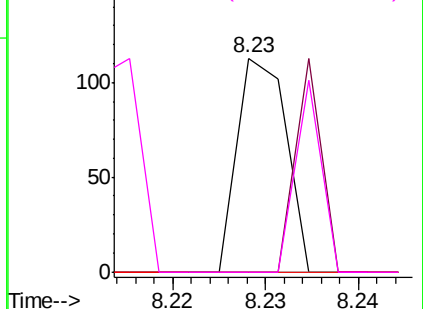


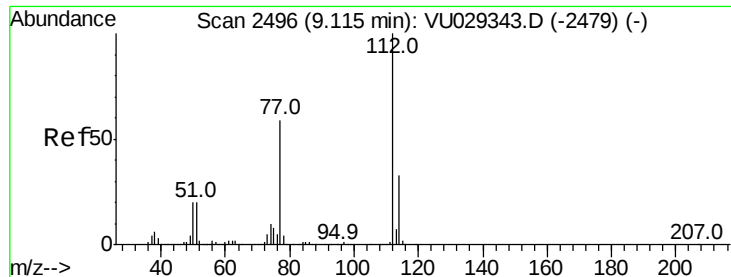
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#59

Chlorobenzene

Concen: 0.001 ug/l

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

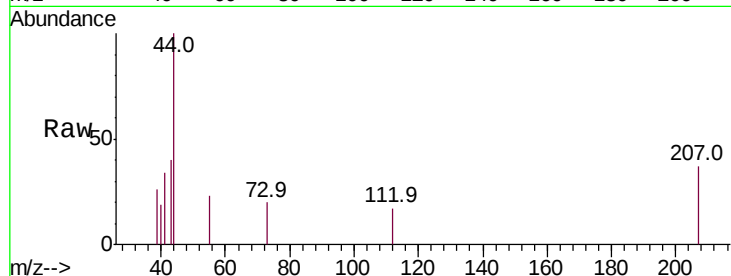
ClientSampled :

Tot Ion:112 Resp: 43

Ion Ratio Lower Upper

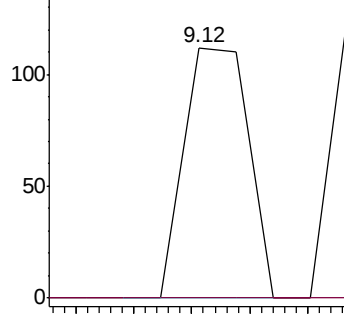
112 100

114 0.0 26.2 39.4#

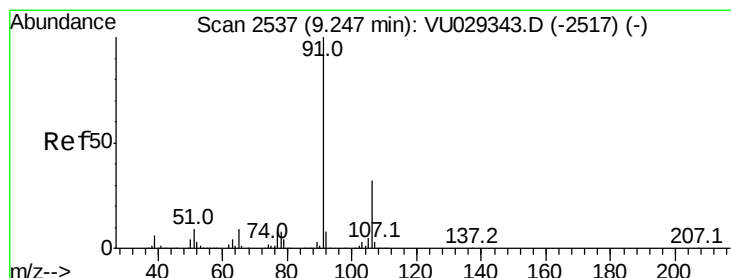
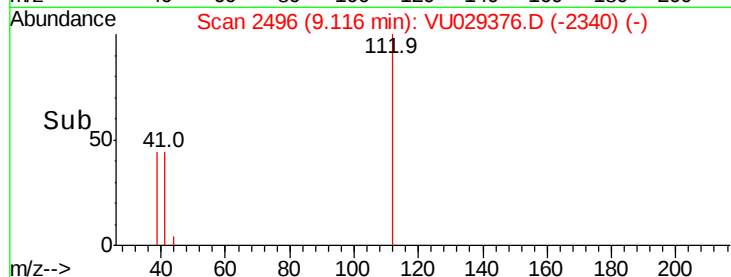


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#63

Ethyl Benzene

Concen: 0.009 ug/l

RT: 9.25 min Scan# 2539

Delta R.T. 0.01 min

Lab File: VU029376.D

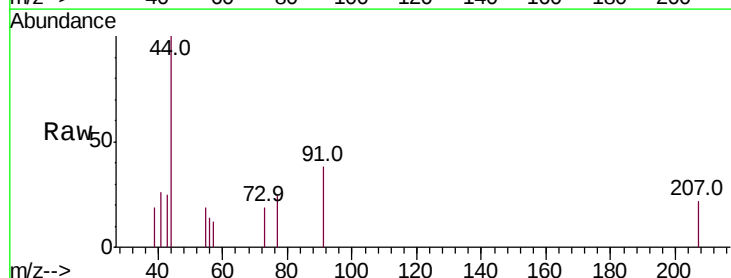
Acq: 08 Feb 2019 13:34

Tgt Ion: 91 Resp: 738

Ion Ratio Lower Upper

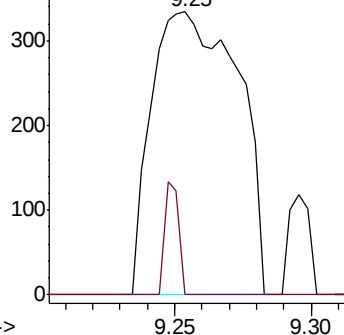
91 100

106 0.0 23.8 35.6#

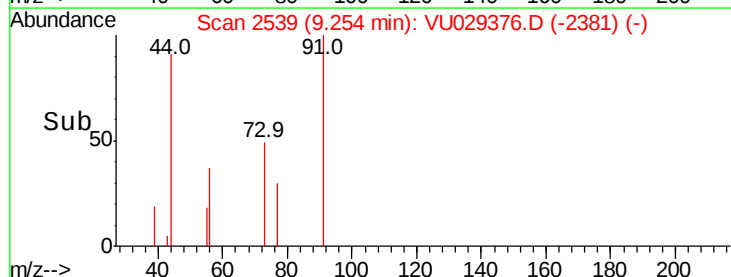


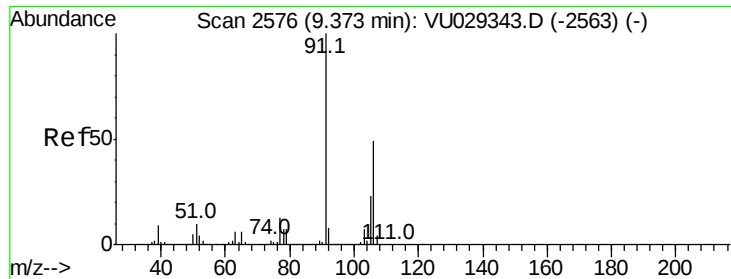
Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



Time-->





#64

m/p-Xvlenes

Concen: 0.002 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

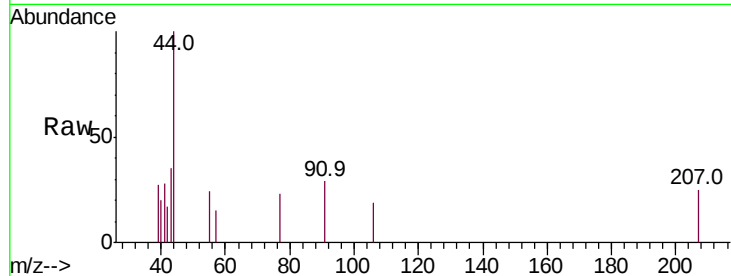
ClientSampled :

Tot Ion:106 Resp: 67

Ion Ratio Lower Upper

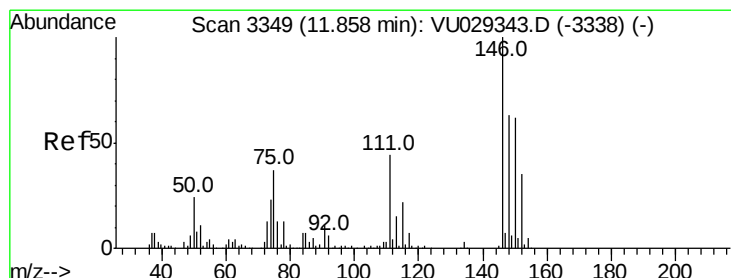
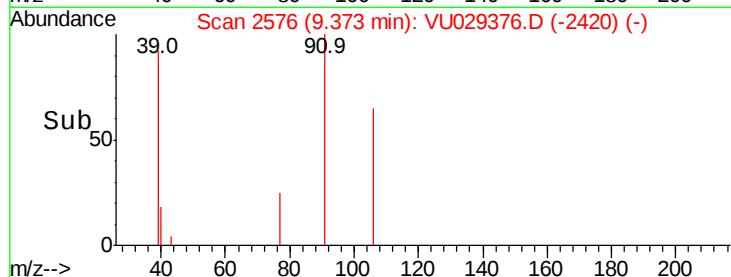
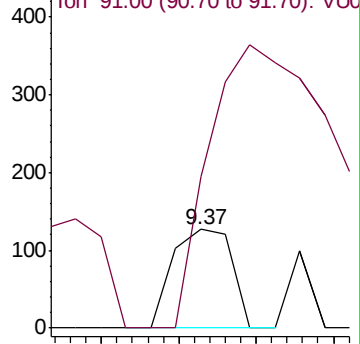
106 100

91 111.9 174.6 261.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

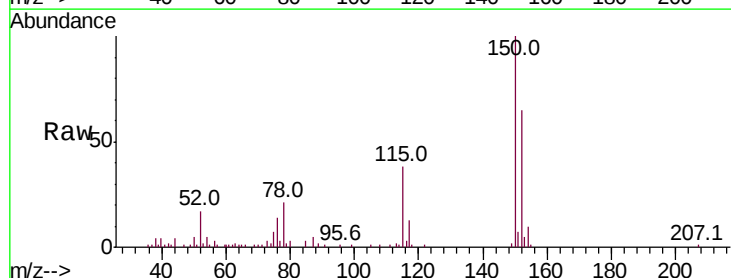
Tgt Ion:152 Resp: 23613

Ion Ratio Lower Upper

152 100

115 59.0 0.0 133.4

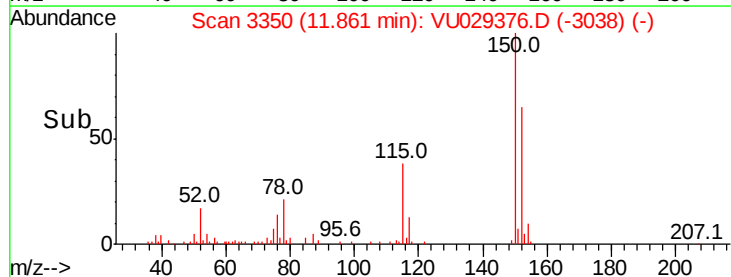
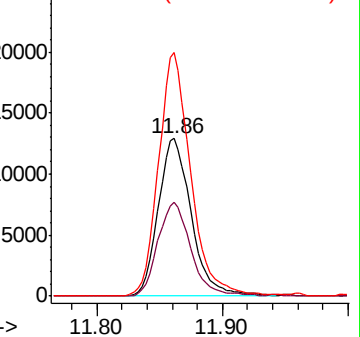
150 149.8 0.0 670.8

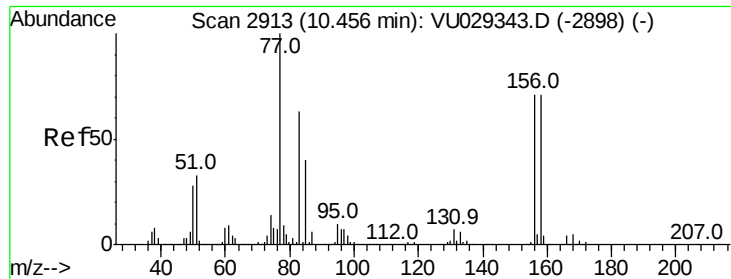


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#70

1,1,2,2-Tetrachloroethane

Concen: 0.001 ug/l

RT: 10.47 min Scan# 2917

Delta R.T. 0.01 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampleId :

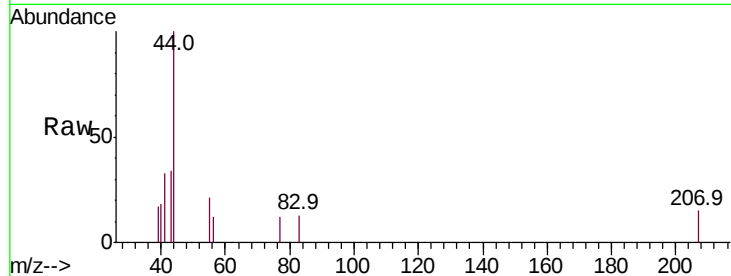
Tot Ion: 83 Resp: 21

Ion Ratio Lower Upper

83 100

131 0.0 8.1 12.1#

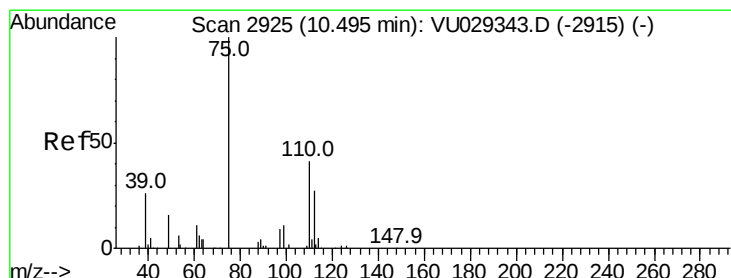
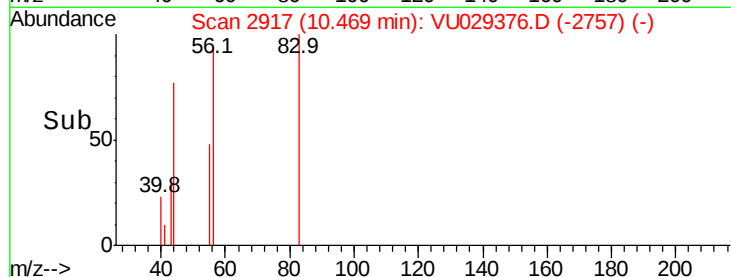
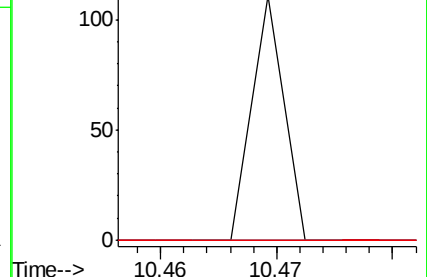
85 0.0 50.3 75.5#



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: 0.450 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. 0.09 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Tgt Ion: 75 Resp: 4743

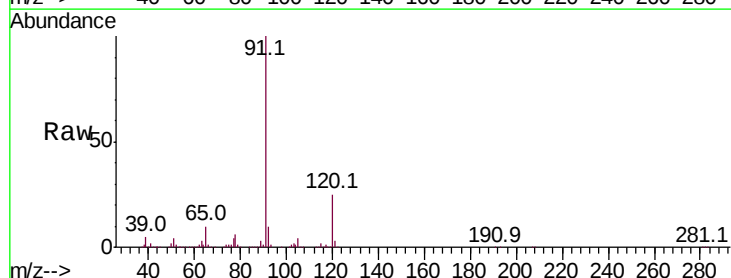
Ion Ratio Lower Upper

75 100

77 599.9 0.0 0.0#

110 0.0 0.0 63.6

97 4.3 0.0 31.4

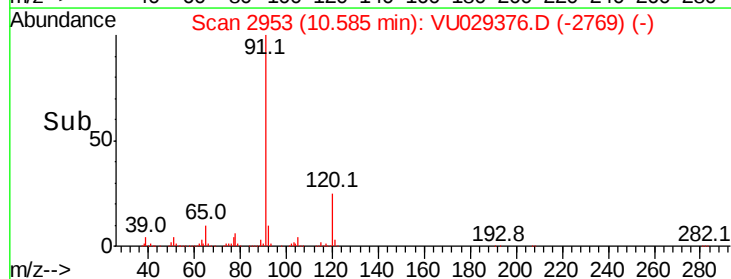
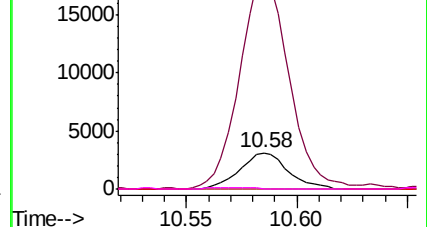


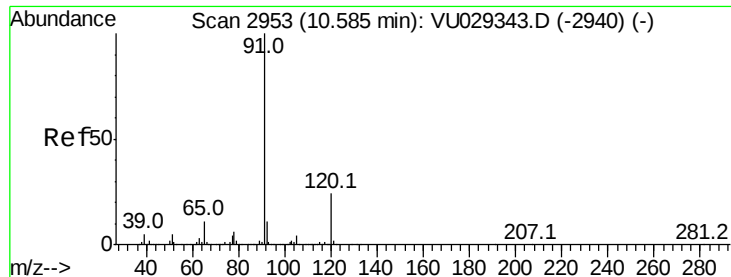
Abundance Ion 75.00 (74.70 to 75.70): VU0

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: 7.859 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

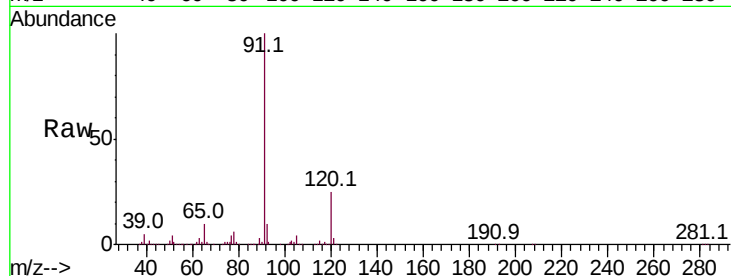
ClientSampled :

Tot Ion:120 Resp: 182233

Ion Ratio Lower Upper

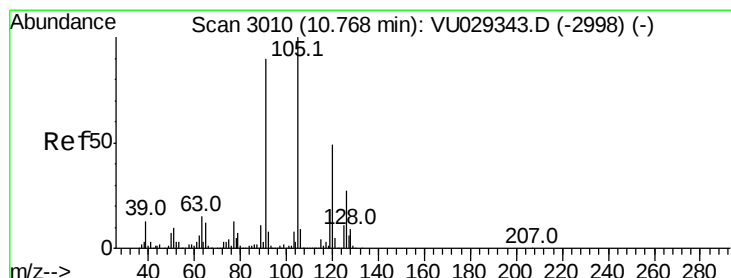
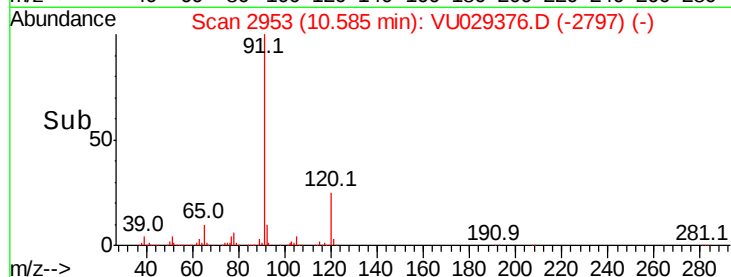
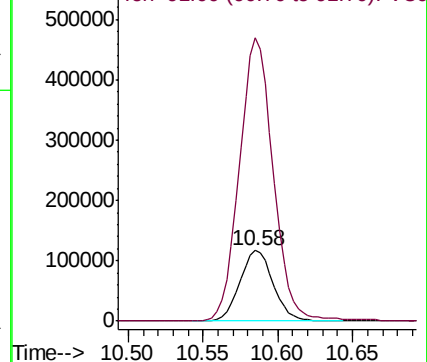
120 100

91 408.6 370.0 555.0



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: 0.390 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. -0.18 min

Lab File: VU029376.D

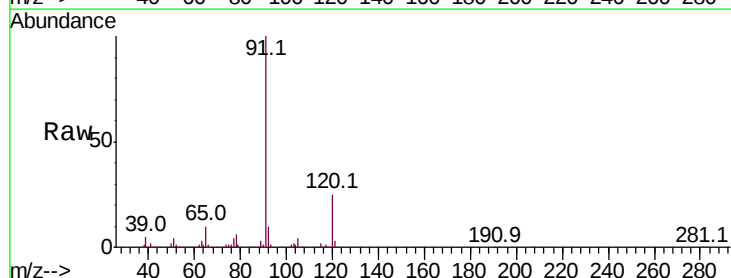
Acq: 08 Feb 2019 13:34

Tgt Ion:105 Resp: 27956

Ion Ratio Lower Upper

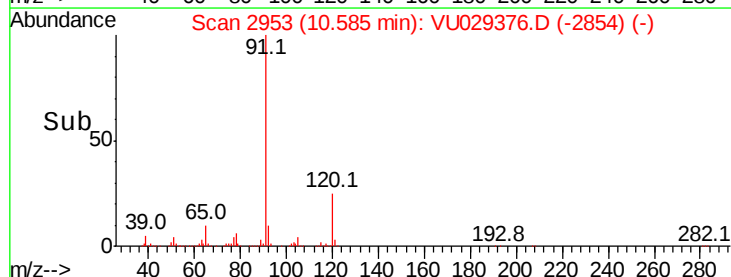
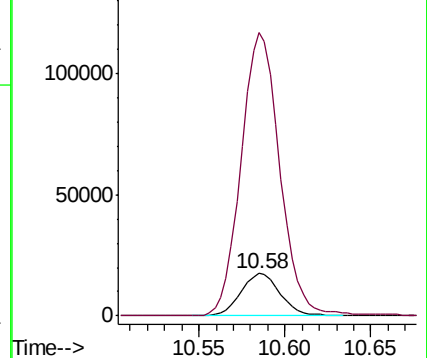
105 100

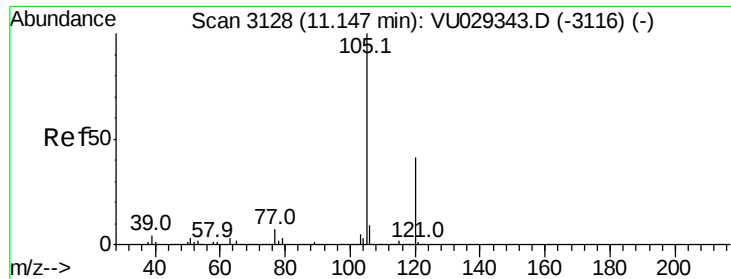
120 651.9 37.3 55.9#



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: 0.004 ug/l

RT: 11.15 min Scan# 3128

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

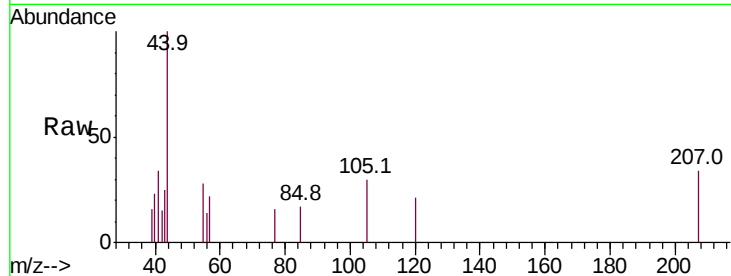
ClientSampleId :

Tot Ion:105 Resp: 286

Ion Ratio Lower Upper

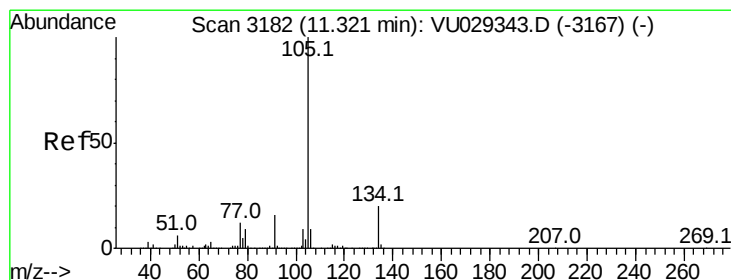
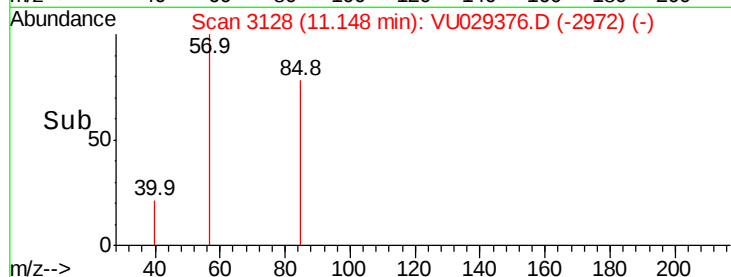
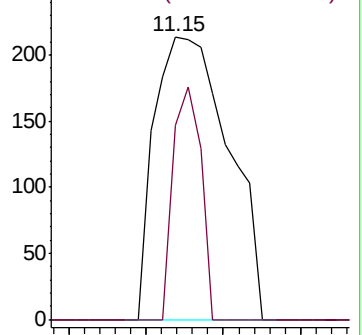
105 100

120 30.4 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: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU029376.D

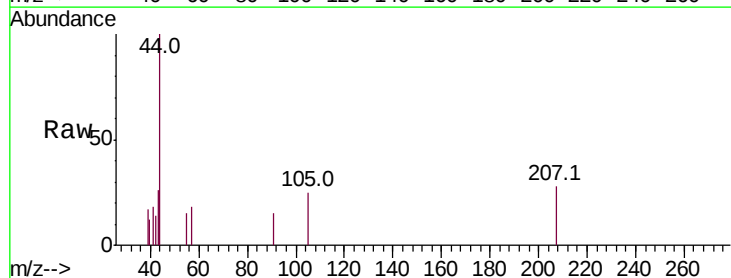
Acq: 08 Feb 2019 13:34

Tgt Ion:105 Resp: 248

Ion Ratio Lower Upper

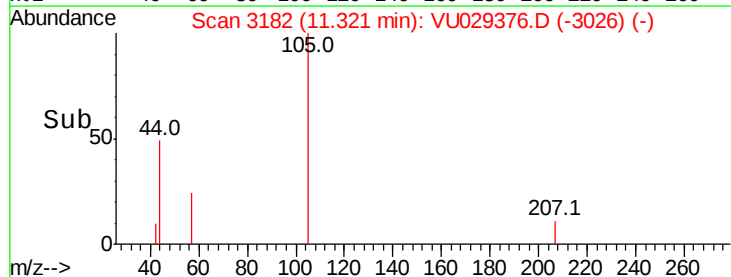
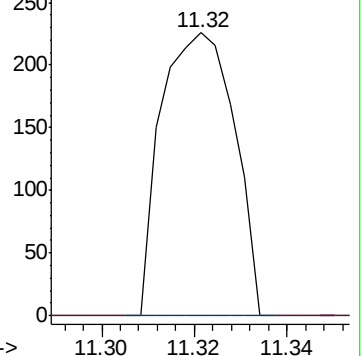
105 100

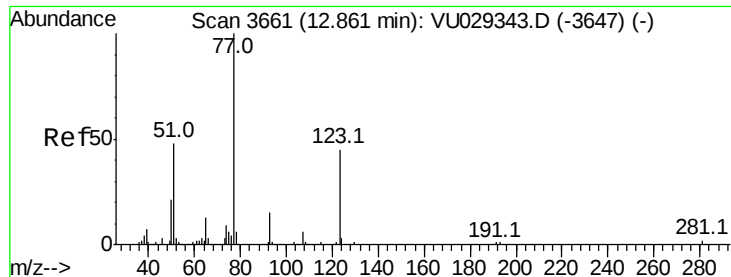
134 0.0 15.0 22.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#80

Nitrobenzene

Concen: 0.094 ug/l

RT: 12.86 min Scan# 3660

Delta R.T. -0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampleId :

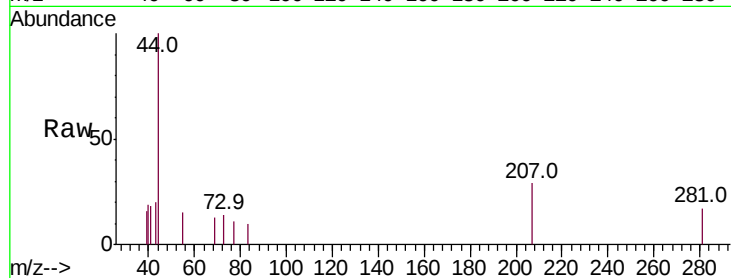
Tot Ion: 77 Resp: 64

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) (-)

12.86

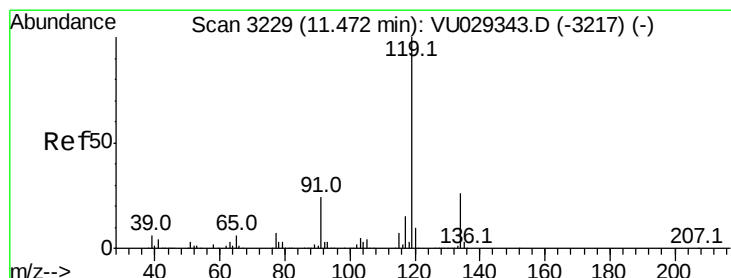
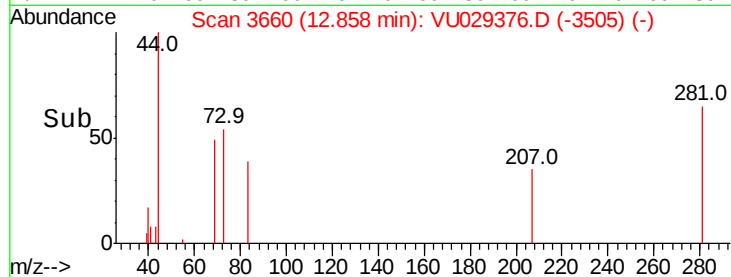
100

50

0

12.85 12.86

Time-->



#81

p-Isopropyltoluene

Concen: 0.002 ug/l

RT: 11.47 min Scan# 3229

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

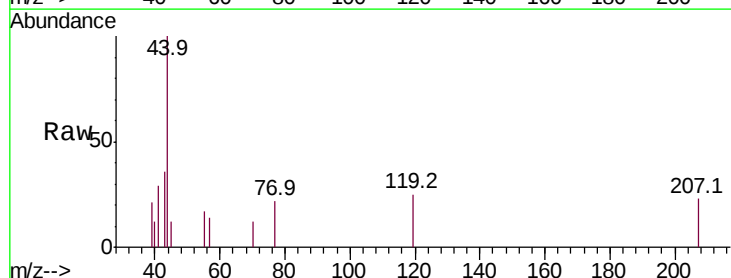
Tgt Ion: 119 Resp: 153

Ion Ratio Lower Upper

119 100

134 0.0 19.8 29.6#

91 65.4 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) (-)

11.47

300

250

200

150

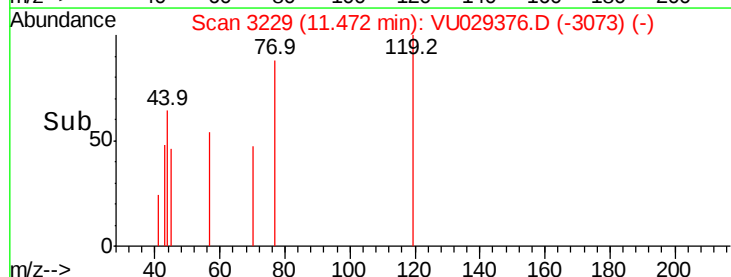
100

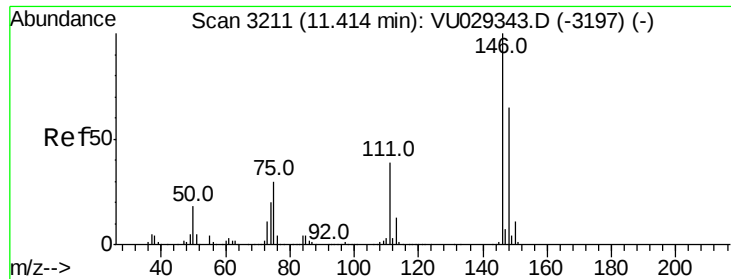
50

0

11.46 11.47 11.48

Time-->





#82

1,3-Dichlorobenzene

Concen: 0.008 ug/l

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampleId :

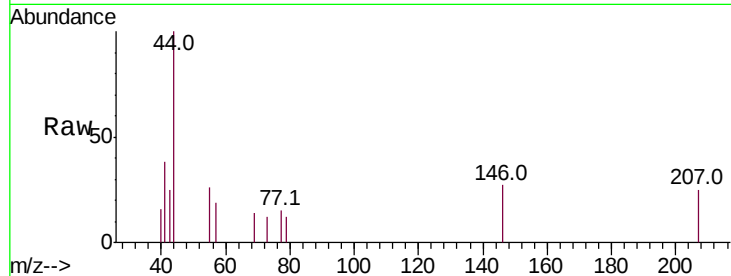
Tot Ion:146 Resp: 300

Ion Ratio Lower Upper

146 100

111 0.0 34.1 51.1#

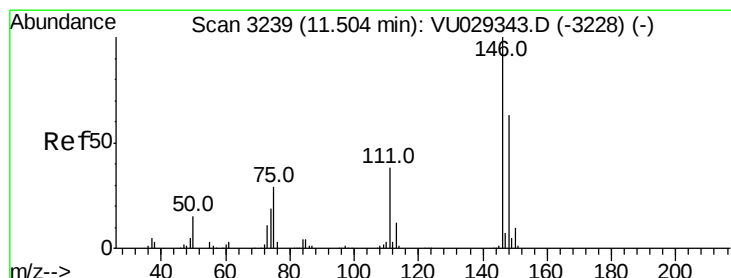
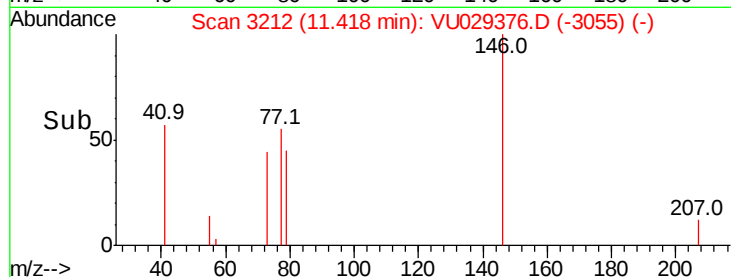
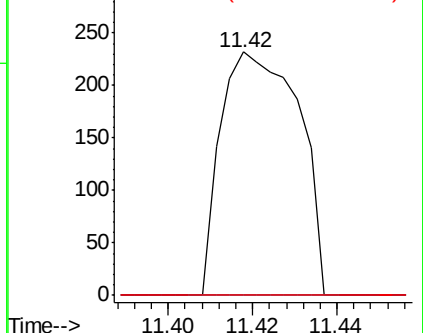
148 0.0 52.3 78.5#



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



#83

1,4-Dichlorobenzene

Concen: 0.002 ug/l

RT: 11.51 min Scan# 3241

Delta R.T. 0.01 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

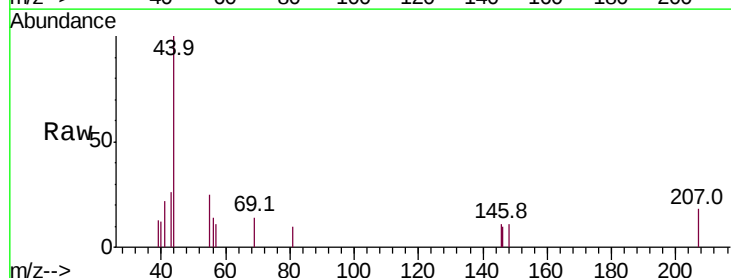
Tgt Ion:146 Resp: 87

Ion Ratio Lower Upper

146 100

111 0.0 32.9 49.3#

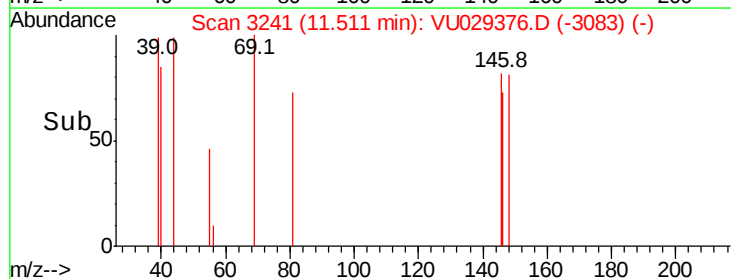
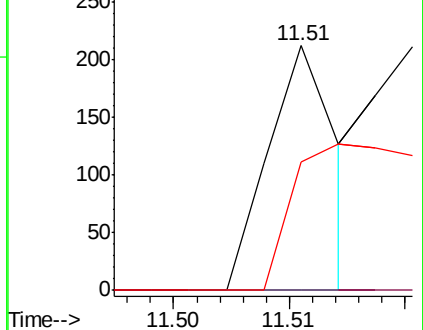
148 229.9 51.8 77.6#

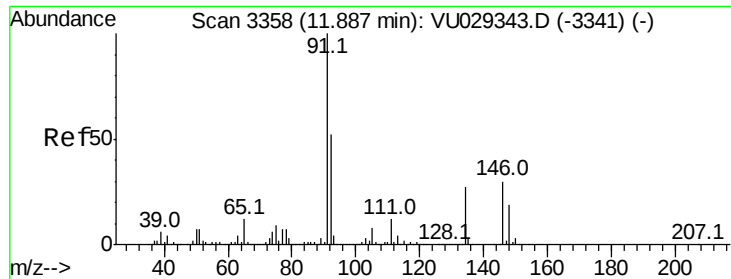


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

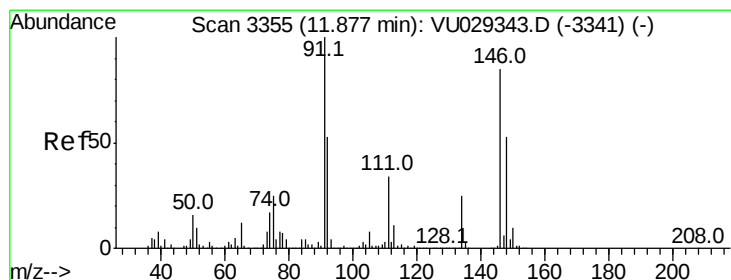
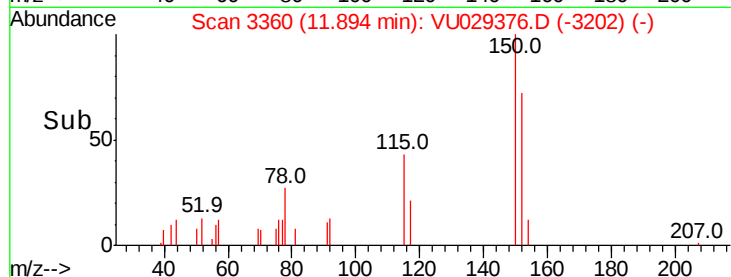
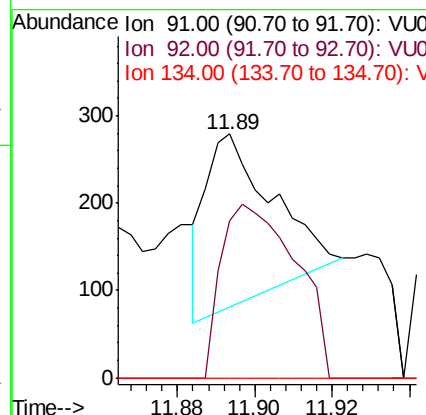
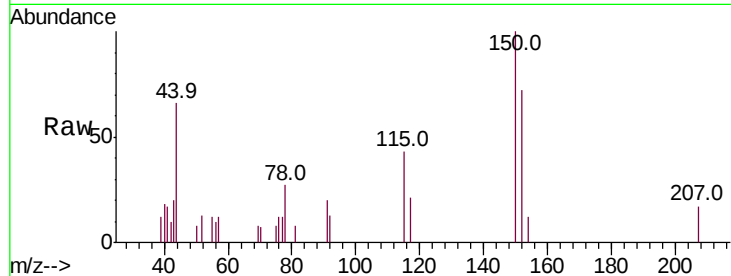




#84
n-Butylbenzene
Concen: 0.003 ug/l
RT: 11.89 min Scan# 3360
Delta R.T. 0.01 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

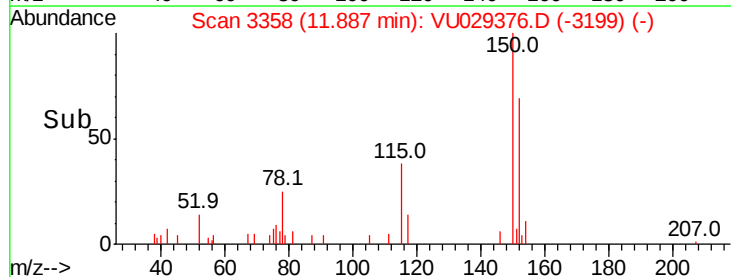
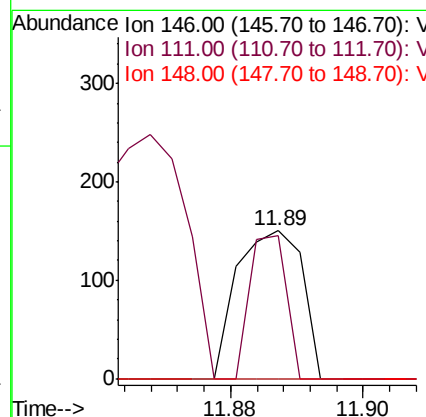
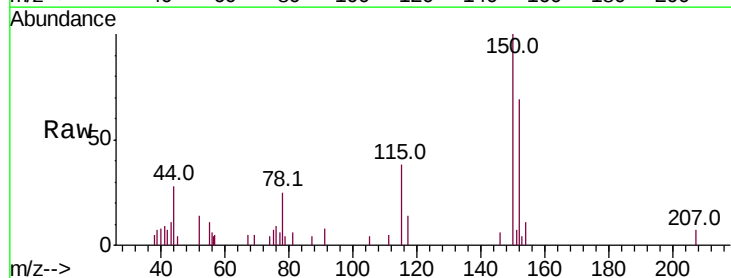
Instrument :
MSVOA_U
ClientSampled :

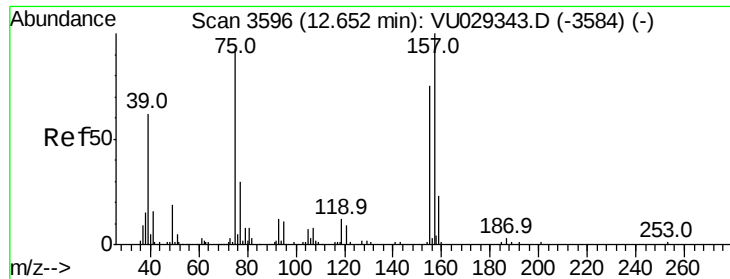
Tot Ion: 91 Resp: 239
Ion Ratio Lower Upper
91 100
92 112.1 41.0 61.6#
134 0.0 19.1 28.7#



#85
1,2-Dichlorobenzene
Concen: 0.003 ug/l
RT: 11.89 min Scan# 3358
Delta R.T. 0.01 min
Lab File: VU029376.D
Acq: 08 Feb 2019 13:34

Tgt Ion: 146 Resp: 103
Ion Ratio Lower Upper
146 100
111 53.4 21.9 65.8
148 0.0 31.8 95.3#





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.197 ug/l

RT: 12.48 min Scan# 3541

Delta R.T. -0.18 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampled :

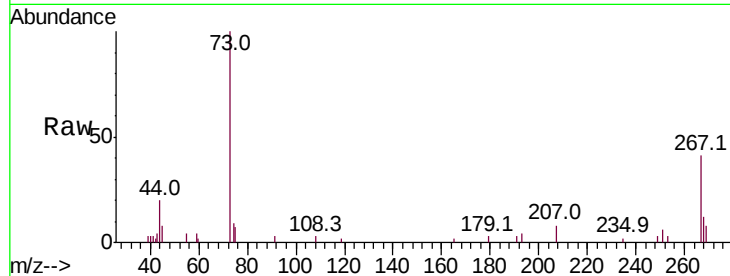
Tot Ion: 75 Resp: 565

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

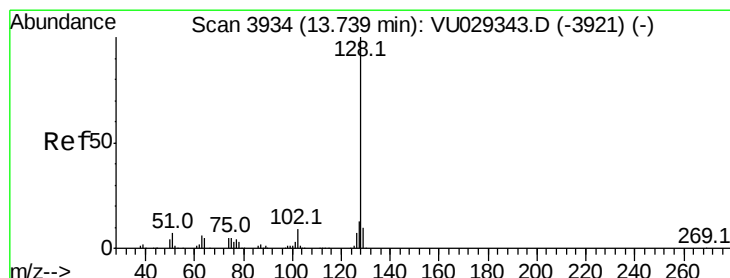
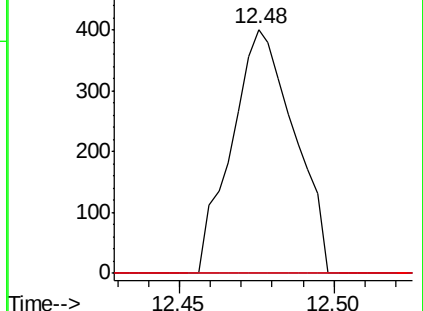
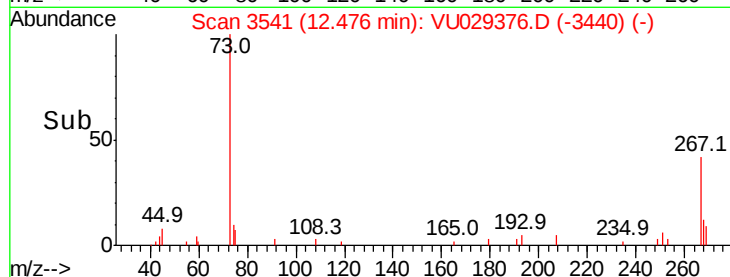
157 0.0 69.2 103.8#



Abundance Ion 75.00 (74.70 to 75.70): VU029376.D (-3440) (-)

Ion 155.00 (154.70 to 155.70): VU029376.D (-3440) (-)

Ion 157.00 (156.70 to 157.70): VU029376.D (-3440) (-)



#89

Naphthalene

Concen: 0.005 ug/l

RT: 13.80 min Scan# 3952

Delta R.T. 0.06 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

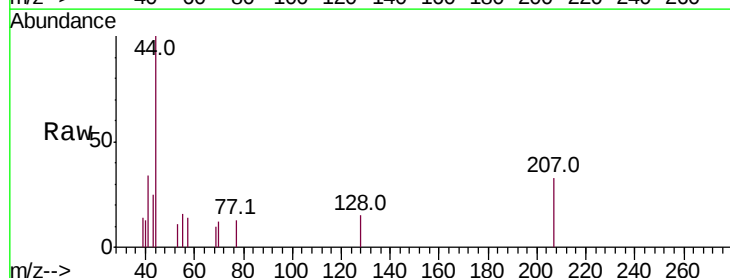
Tgt Ion: 128 Resp: 224

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

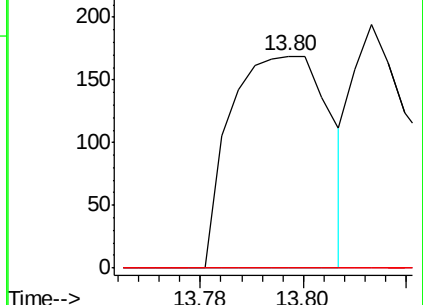
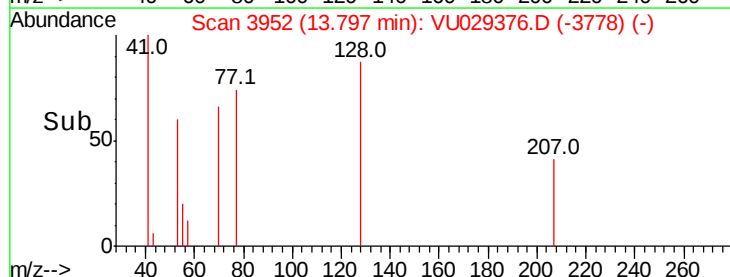
129 0.0 8.2 12.4#

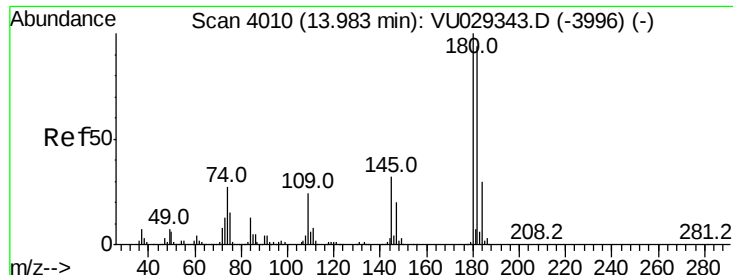


Abundance Ion 128.00 (127.70 to 128.70): VU029376.D (-3778) (-)

Ion 127.00 (126.70 to 127.70): VU029376.D (-3778) (-)

Ion 129.00 (128.70 to 129.70): VU029376.D (-3778) (-)





#90

1,2,3-Trichlorobenzene

Concen: 0.002 ug/l

RT: 14.01 min Scan# 4018

Delta R.T. 0.03 min

Lab File: VU029376.D

Acq: 08 Feb 2019 13:34

Instrument :

MSVOA_U

ClientSampleId :

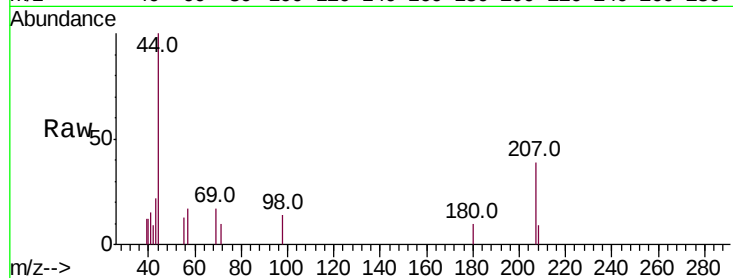
Tot Ion:180 Resp: 42

Ion Ratio Lower Upper

180 100

182 0.0 78.0 117.0#

145 0.0 26.6 39.8#



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

