

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U020819\
 Data File : VU029381.D
 Acq On : 08 Feb 2019 16:24
 Operator : JC/SP
 Sample : K1161-07DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 09 03:20:01 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	57297	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	21874	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	23695	1.03	ug/l	0.00
Spiked Amount 1.000			Recovery	=	103.00%	

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.41	85	20	0.001	ug/l # 43
3) Chloromethane	1.33	50	484	0.025	ug/l 98
4) Vinyl Chloride	1.40	62	141680	6.185	ug/l 99
5) Bromomethane	1.54	94	519	0.041	ug/l 99
7) Trichlorofluoromethane	1.89	101	427	0.013	ug/l # 69
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	90	0.005	ug/l # 24
9) 1,1-Dichloroethene	2.28	96	35803	2.166	ug/l 69
10) Iodomethane	2.54	142	23	0.301	ug/l # 58
11) Allyl Chloride	2.43	41	189	0.007	ug/l 88
12) Acrylonitrile	2.94	53	318	0.086	ug/l # 6
13) Acetone	2.32	43	783	0.219	ug/l 97
14) Carbon Disulfide	2.48	76	799	0.014	ug/l # 93
15) Methylene Chloride	2.70	84	70934	3.539	ug/l # 78
16) trans-1,2-Dichloroethene	2.98	96	52695	2.851	ug/l # 76
17) 1,1-Dichloroethane	3.45	63	739	0.025	ug/l # 43
18) 2-Butanone	4.25	43	62	0.016	ug/l 78
19) Cyclohexane	5.00	56	165	0.006	ug/l # 15
20) Methylcyclohexane	6.42	83	176	0.006	ug/l # 19
21) 2,2-Dichloropropane	4.22	77	506	0.019	ug/l # 1
22) cis-1,2-Dichloroethene	4.22	96	62190	3.572	ug/l 65
23) Diethyl Ether	2.10	59	1401	0.106	ug/l 93
24) tert-Butyl Alcohol	2.84	59	1509	1.094	ug/l # 86
25) Methyl tert-Butyl Ether	3.13	73	290	0.006	ug/l 93
26) Bromochloromethane	4.55	128	40	0.005	ug/l # 1
27) Chloroform	4.67	83	673	0.024	ug/l 88
28) 1,1,1-Trichloroethane	4.91	97	98217	3.720	ug/l 95
29) 1,1-Dichloropropene	5.13	75	255	0.011	ug/l # 29
30) Carbon Tetrachloride	5.13	117	68137	2.851	ug/l 98
31) Isopropyl Ether	3.56	45	70	0.002	ug/l 78
32) Ethyl-t-butyl ether	4.23	59	1850	0.042	ug/l # 36
33) Tert-Amyl methyl ether	5.38	73	4086	0.102	ug/l # 58
35) Benzene	5.39	78	225469	3.557	ug/l 97
36) 1,2-Dichloroethane	5.41	62	11925	0.622	ug/l # 91
37) Trichloroethene	6.18	130	60216	3.311	ug/l 82
38) 1,2-Dichloropropane	6.43	63	40308	2.445	ug/l 97
39) Methacrylonitrile	4.56	41	173	0.032	ug/l # 53
40) Methyl acrylate	4.42	55	51	0.006	ug/l # 1
41) Tetrahydrofuran	4.65	42	290	0.107	ug/l # 56
42) 1-Chlorobutane	5.02	56	74	0.002	ug/l 86
43) Dibromomethane	6.56	93	160	0.018	ug/l # 41
44) Bromodichloromethane	6.76	83	161	0.007	ug/l # 27

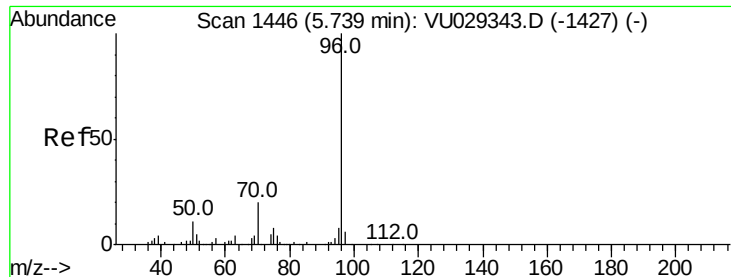
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029381.D
 Acq On : 08 Feb 2019 16:24
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Quant Time: Feb 09 03:20:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.47	43	192	0.019	ug/l #	47
46) t-1,4-Dichloro-2-butene	10.31	75	10393	2.071	ug/l #	16
47) Methyl methacrylate	6.62	69	98	0.013	ug/l #	1
48) Ethyl methacrylate	7.96	69	117	0.007	ug/l	63
49) Toluene	7.64	92	57870	1.427	ug/l	95
50) t-1,3-Dichloropropene	7.89	75	501	0.023	ug/l #	45
52) 1,1,2-Trichloroethane	8.07	97	27717	2.383	ug/l	98
54) 2-Hexanone	8.33	43	68	0.009	ug/l #	22
58) Tetrachloroethene	8.22	164	35014	2.069	ug/l	97
59) Chlorobenzene	9.12	112	123548	2.704	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.21	131	626	0.037	ug/l	93
63) Ethyl Benzene	9.25	91	171902	2.166	ug/l	94
64) m/p-Xylenes	9.38	106	33199	1.077	ug/l	92
65) o-Xylene	9.78	106	19636	0.649	ug/l	86
66) Styrene	9.79	104	185161	3.670	ug/l #	85
69) Isopropylbenzene	10.17	105	989	0.012	ug/l	88
70) 1,1,2,2-Tetrachloroethane	10.46	83	544	0.036	ug/l #	84
71) 1,2,3-Trichloropropane	10.31	75	10393	1.015	ug/l #	49
72) Bromobenzene	10.46	156	1391	0.071	ug/l	82
73) n-propylbenzene	10.59	120	1121	0.050	ug/l	69
74) 2-Chlorotoluene	10.67	126	713	0.037	ug/l	97
75) 1,3,5-Trimethylbenzene	10.77	105	2354	0.034	ug/l	100
76) 4-Chlorotoluene	10.78	126	1168	0.059	ug/l	45
77) tert-Butylbenzene	11.10	119	2182	0.032	ug/l	96
78) 1,2,4-Trimethylbenzene	11.15	105	3027	0.043	ug/l	93
79) sec-Butylbenzene	11.32	105	2891	0.032	ug/l #	77
80) Nitrobenzene	12.80	77	42	0.063	ug/l #	43
81) p-Isopropyltoluene	11.47	119	3522	0.046	ug/l	98
82) 1,3-Dichlorobenzene	11.51	146	90454	2.352	ug/l	95
83) 1,4-Dichlorobenzene	11.51	146	90454	2.362	ug/l	97
84) n-Butylbenzene	11.89	91	7037	0.100	ug/l	96
85) 1,2-Dichlorobenzene	11.88	146	142852	3.929	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.48	75	624	0.224	ug/l #	11
87) 1,2,4-Trichlorobenzene	13.50	180	50128	1.963	ug/l	98
88) Hexachlorobutadiene	13.69	225	2948	0.199	ug/l	89
89) Naphthalene	13.75	128	21514	0.497	ug/l	99
90) 1,2,3-Trichlorobenzene	13.99	180	20646	0.885	ug/l	94

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

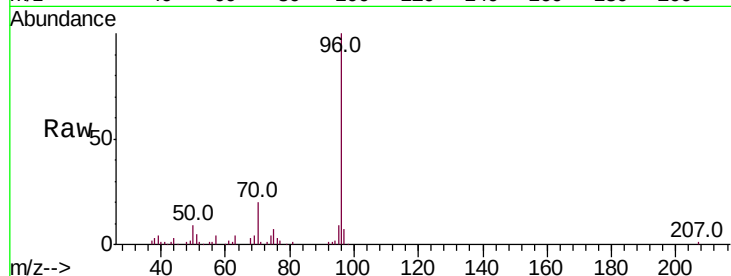
Delta R.T. 0.00 min

Lab File: VU029381.D

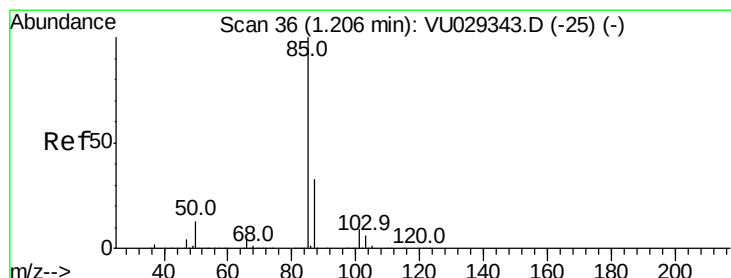
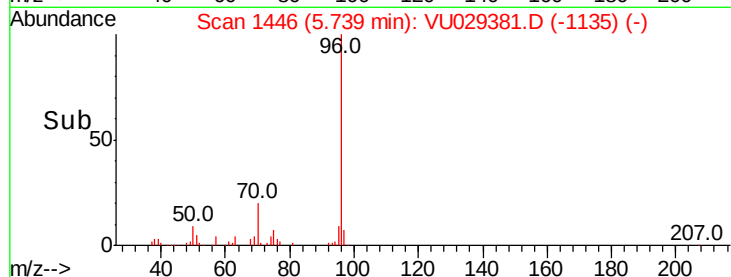
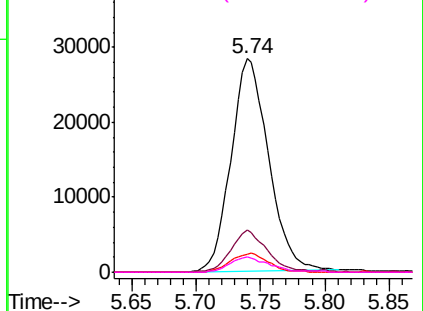
Acq: 08 Feb 2019 16:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	96	Resp:	57297
Ion	Ratio	Lower	Upper
96	100		
70	18.3	16.2	24.2
95	8.9	7.4	11.2
97	6.7	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: 0.001 ug/l

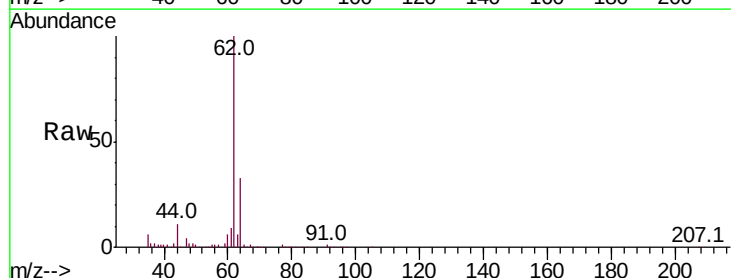
RT: 1.41 min Scan# 100

Delta R.T. 0.21 min

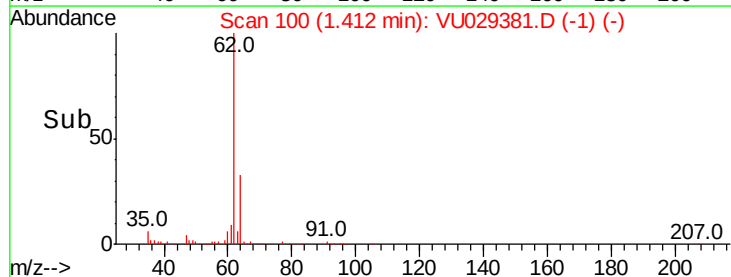
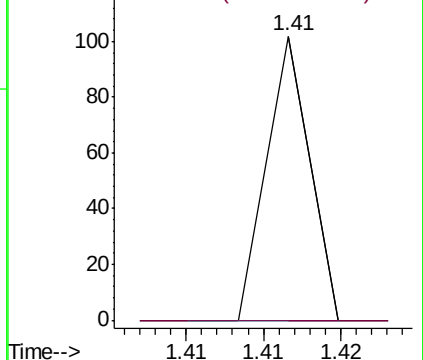
Lab File: VU029381.D

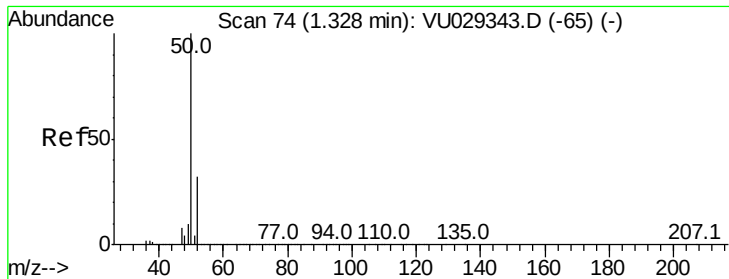
Acq: 08 Feb 2019 16:24

Tgt Ion:	85	Resp:	20
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: 0.025 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

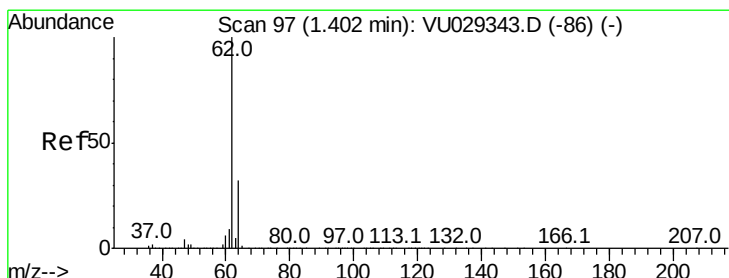
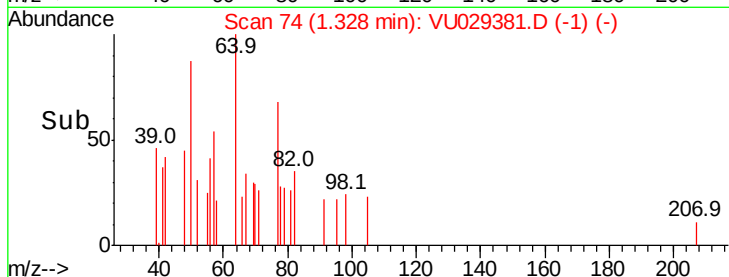
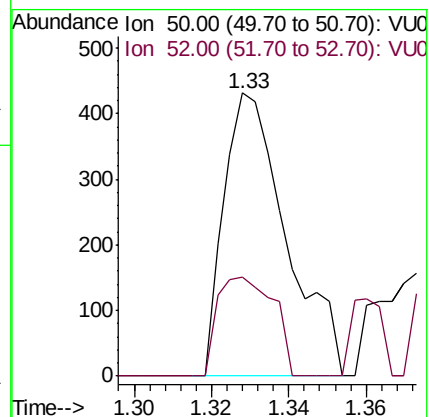
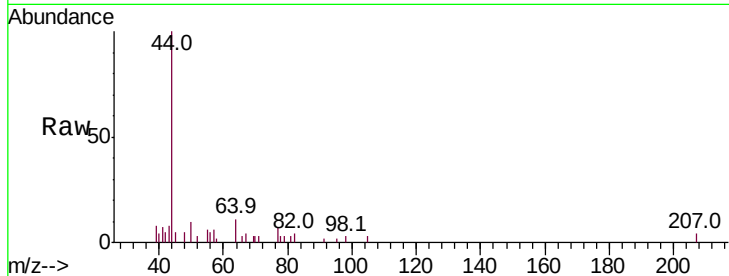
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 484

Ion Ratio Lower Upper

50 100

52 35.2 27.3 40.9



#4

Vinyl Chloride

Concen: 6.185 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029381.D

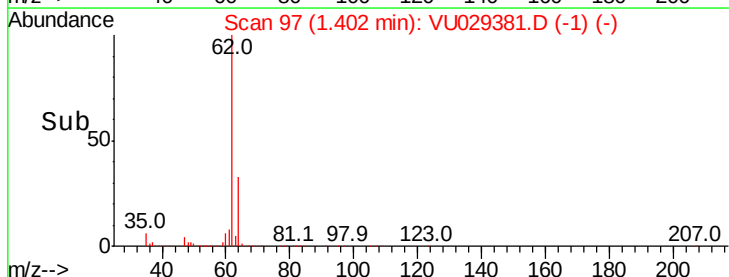
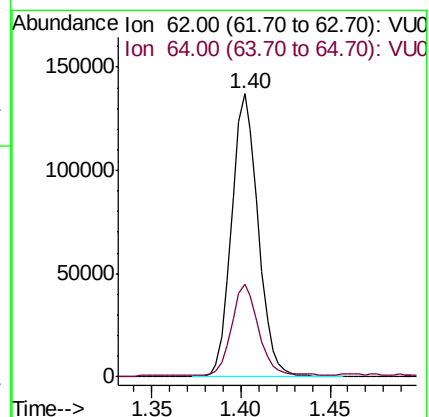
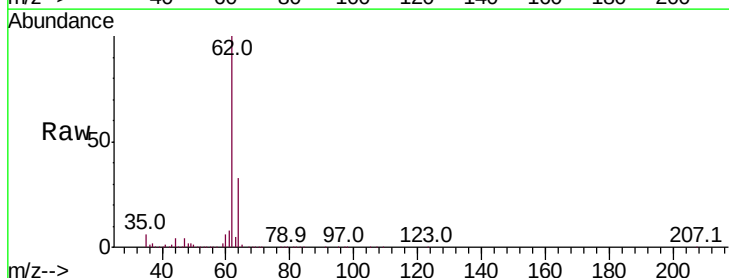
Acq: 08 Feb 2019 16:24

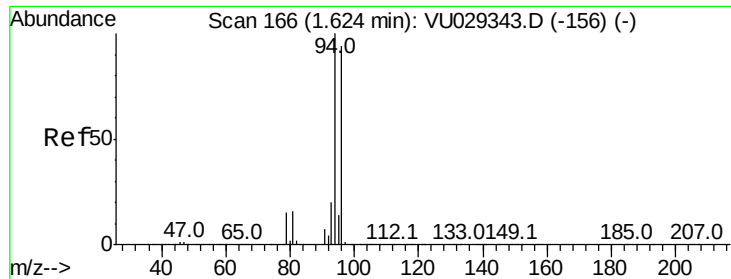
Tgt Ion: 62 Resp: 141680

Ion Ratio Lower Upper

62 100

64 32.2 25.2 37.8





#5

Bromomethane

Concen: 0.041 ug/l

RT: 1.54 min Scan# 140

Delta R.T. -0.08 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

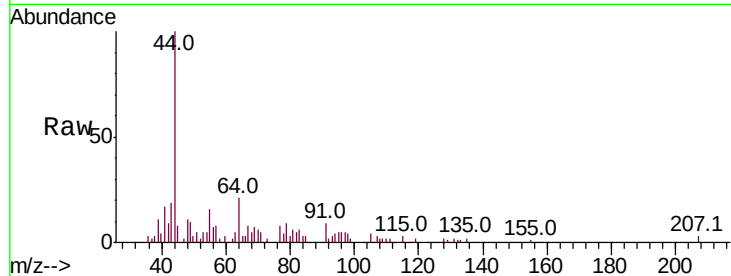
ClientSampled :

Tot Ion: 94 Resp: 519

Ion Ratio Lower Upper

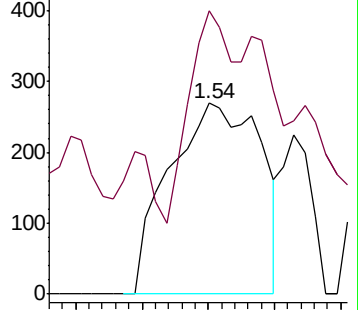
94 100

96 88.8 71.7 107.5

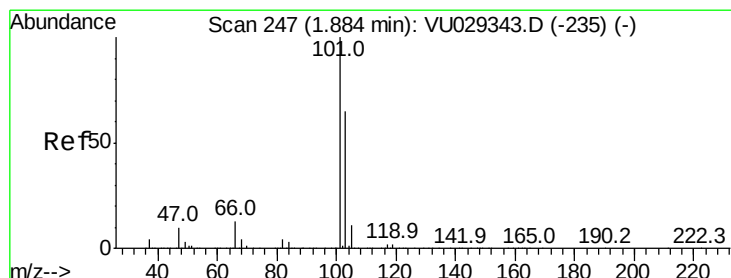
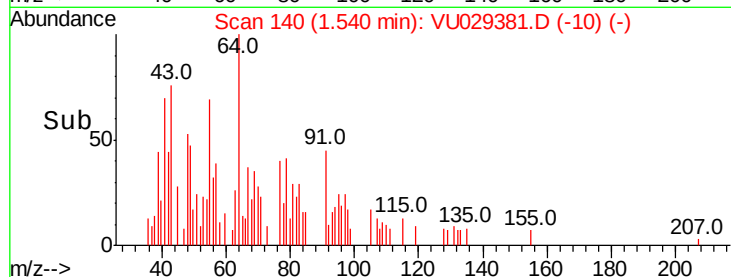


Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



Time-->



#7

Trichlorofluoromethane

Concen: 0.013 ug/l

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU029381.D

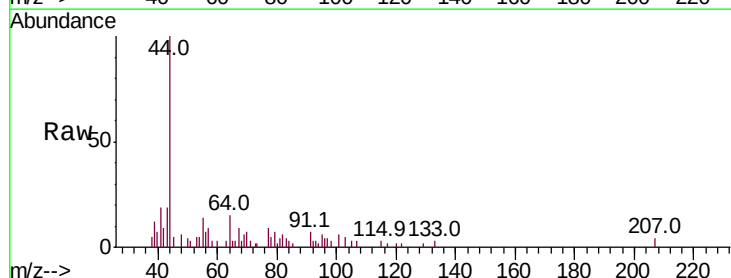
Acq: 08 Feb 2019 16:24

Tgt Ion: 101 Resp: 427

Ion Ratio Lower Upper

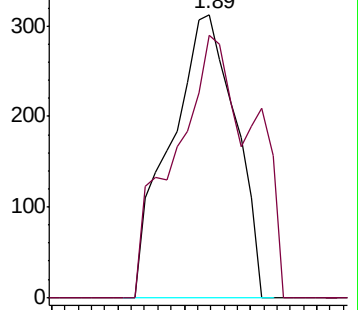
101 100

103 92.3 53.9 80.9#

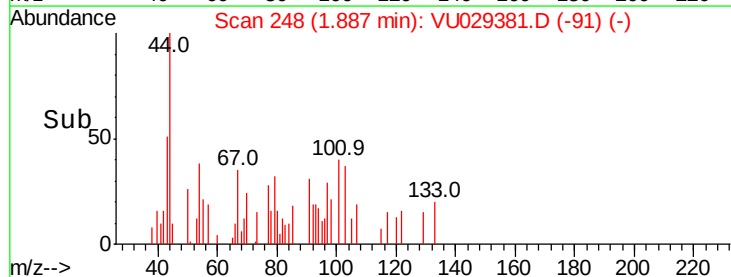


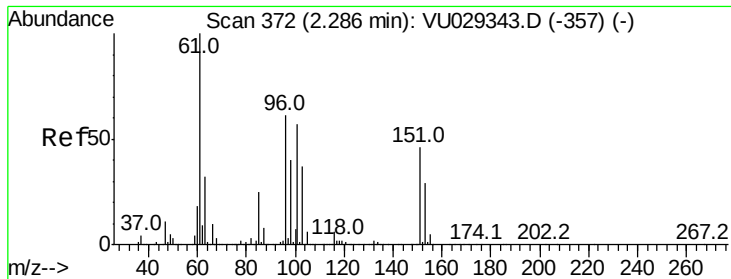
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->





#8

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

Concen: 0.005 ug/l

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

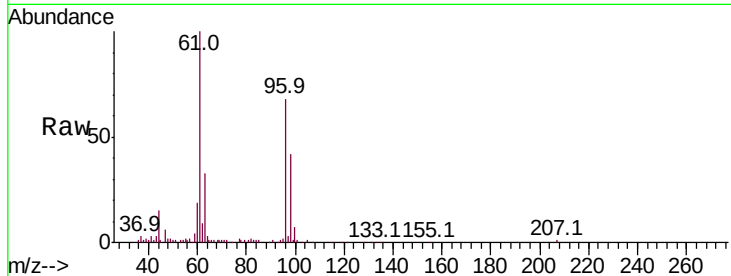
Tot Ion:101 Resp: 90

Ion Ratio Lower Upper

101 100

85 92.2 40.3 60.5#

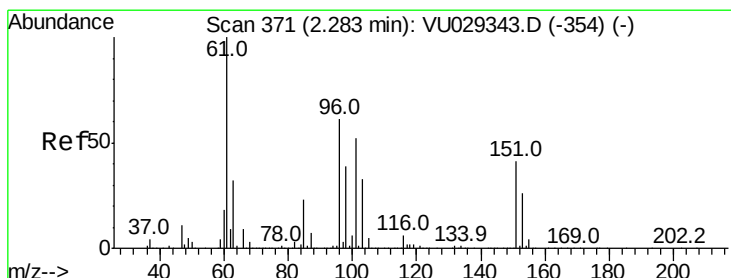
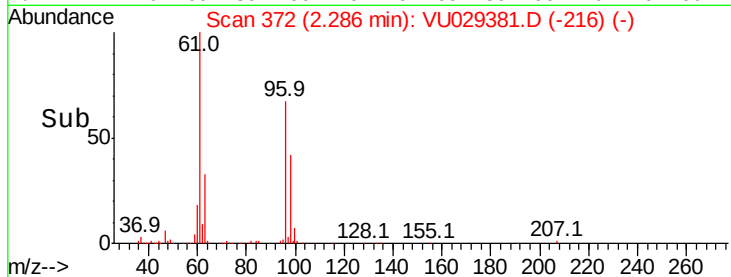
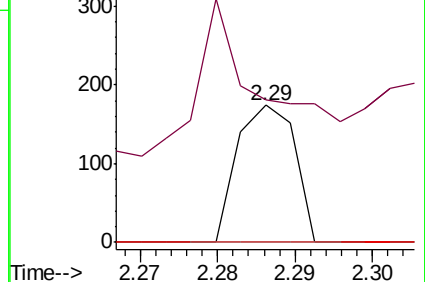
151 0.0 58.1 87.1#



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: 2.166 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

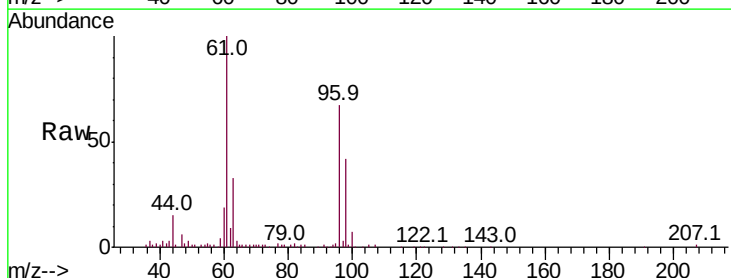
Tgt Ion: 96 Resp: 35803

Ion Ratio Lower Upper

96 100

61 151.7 0.0 641.4

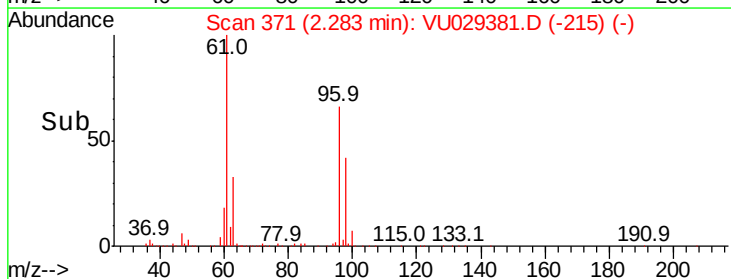
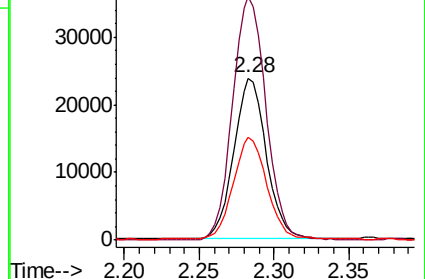
98 63.7 0.0 122.6

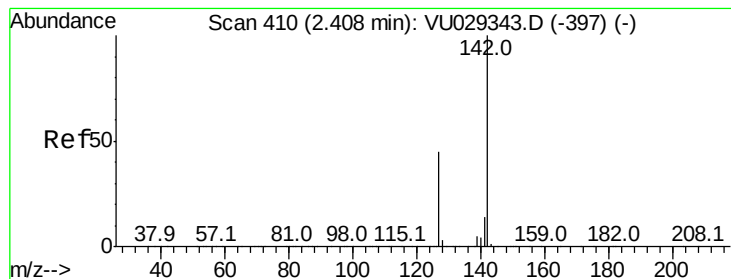


Abundance Ion 96.00 (95.70 to 96.70): VU0

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: 2.54 min Scan# 451

Delta R.T. 0.13 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

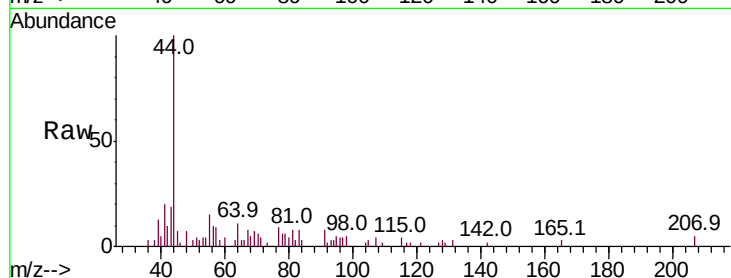
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 23

Ion Ratio Lower Upper

142 100

127 91.3 47.6 71.4#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

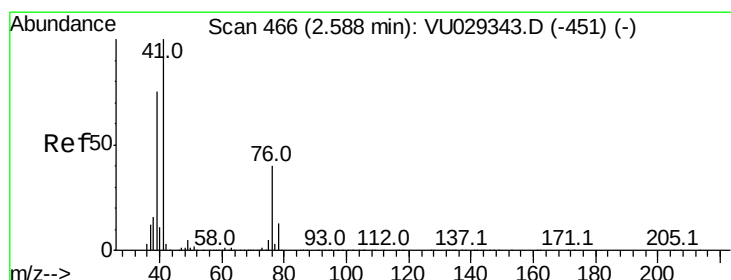
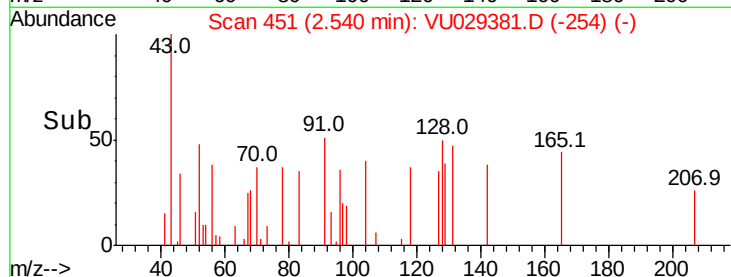
2.54

100

50

0

Time-->



#11

Allyl Chloride

Concen: 0.007 ug/l

RT: 2.43 min Scan# 417

Delta R.T. -0.16 min

Lab File: VU029381.D

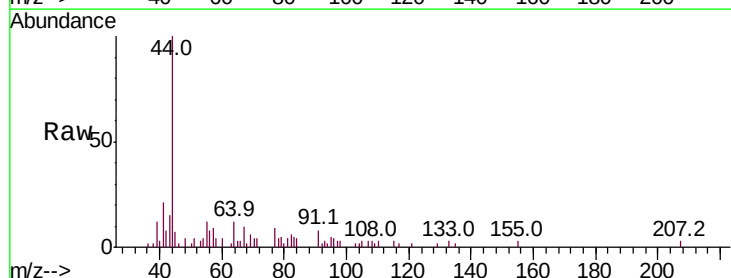
Acq: 08 Feb 2019 16:24

Tgt Ion: 41 Resp: 189

Ion Ratio Lower Upper

41 100

39 95.2 67.2 100.8



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

2.43

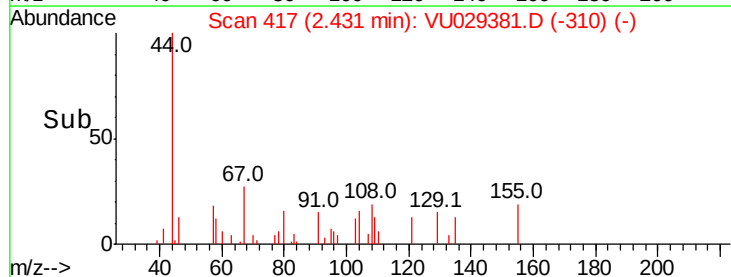
1500

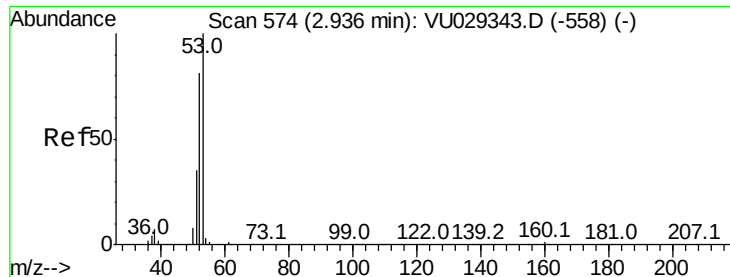
1000

500

0

Time-->





#12

Acrylonitrile

Concen: 0.086 ug/l

RT: 2.94 min Scan# 575

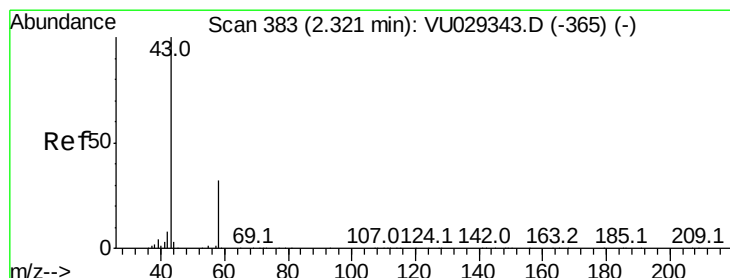
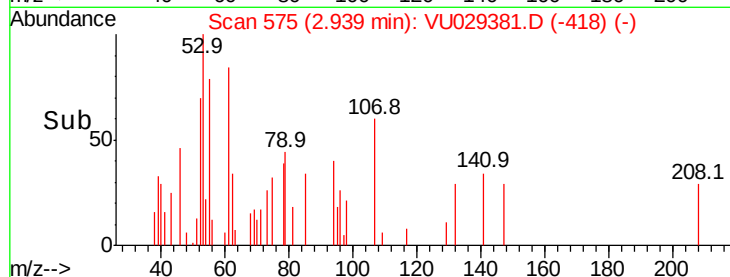
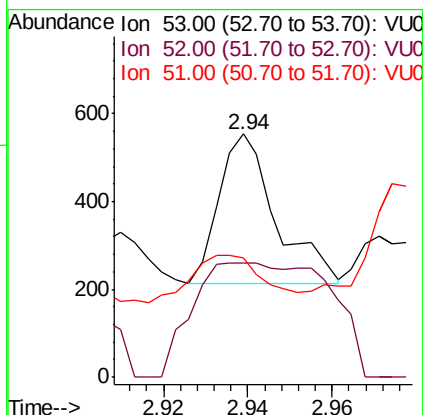
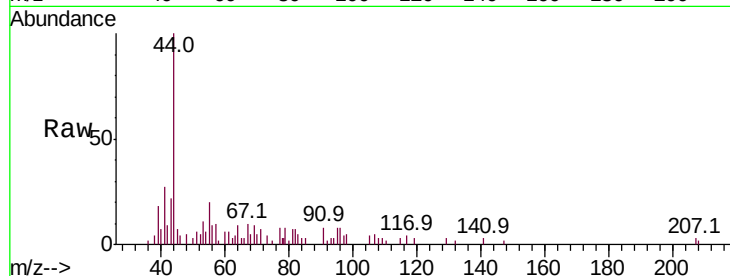
Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	53	Resp:	318
Ion	Ratio	Lower	Upper
53	100		
52	183.0	67.6	101.4#
51	0.0	31.0	46.4#



#13

Acetone

Concen: 0.219 ug/l

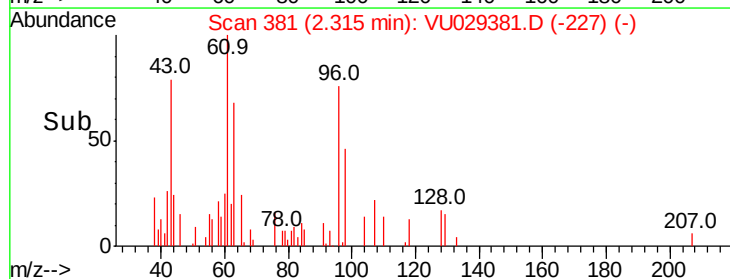
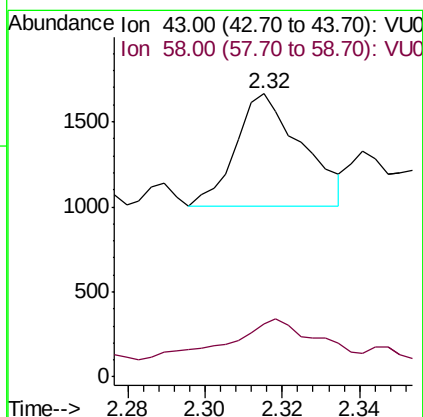
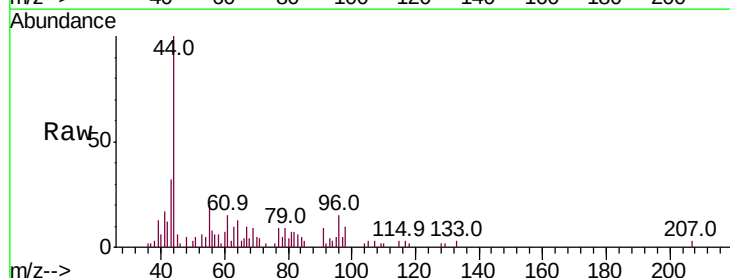
RT: 2.32 min Scan# 381

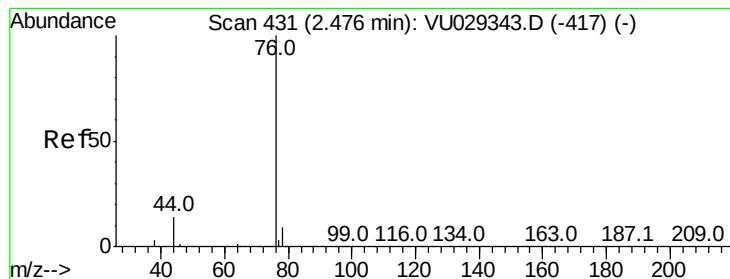
Delta R.T. -0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Tgt Ion:	43	Resp:	783
Ion	Ratio	Lower	Upper
43	100		
58	22.3	19.2	28.8





#14

Carbon Disulfide

Concen: 0.014 ug/l

RT: 2.48 min Scan# 432

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

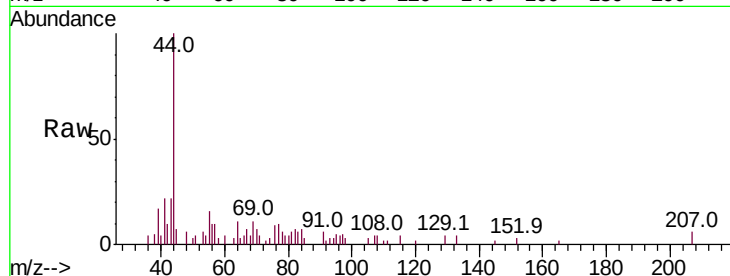
ClientSampleId :

Tot Ion: 76 Resp: 799

Ion Ratio Lower Upper

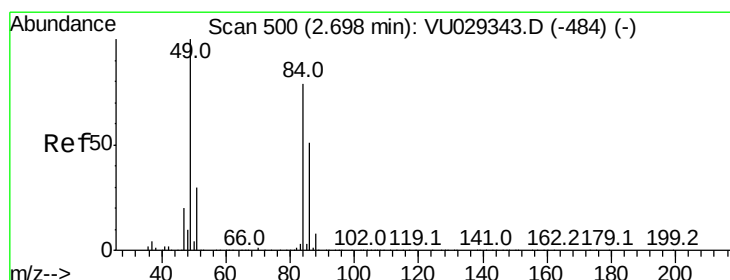
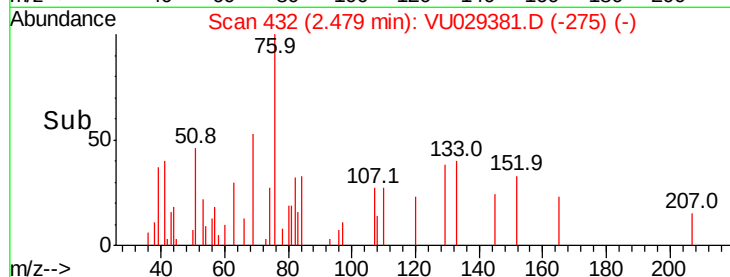
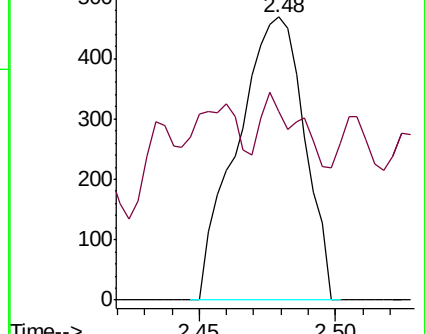
76 100

78 11.3 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



#15

Methylene Chloride

Concen: 3.539 ug/l

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Tgt Ion: 84 Resp: 70934

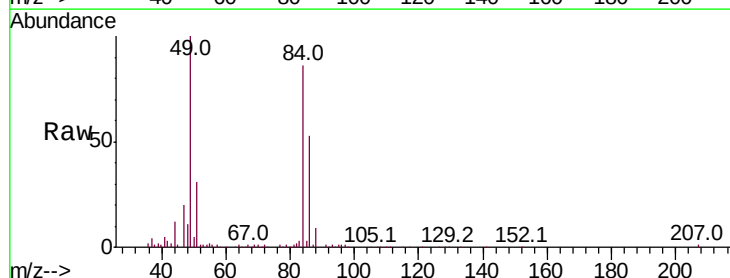
Ion Ratio Lower Upper

84 100

49 116.6 127.0 190.6#

51 35.7 0.0 93.4

86 61.7 50.6 75.8

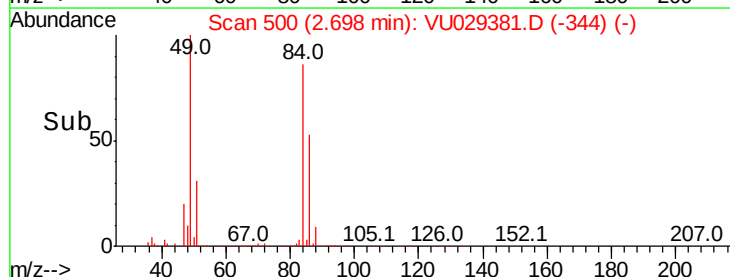
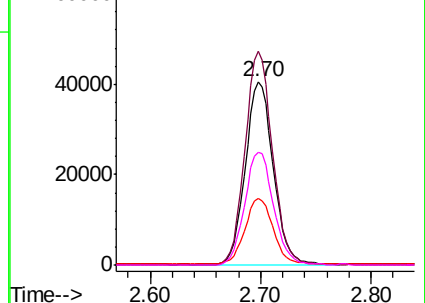


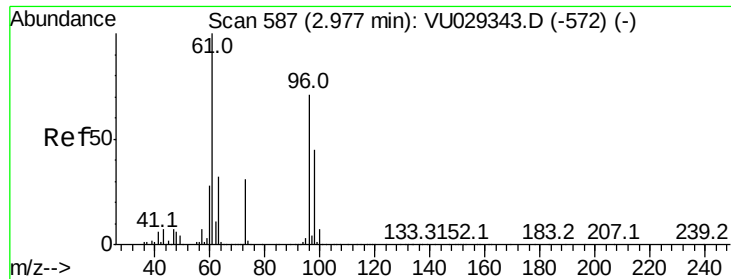
Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

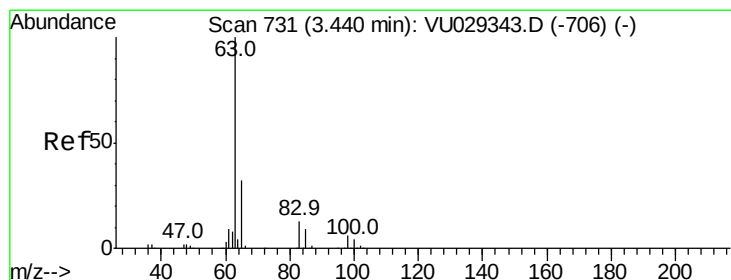
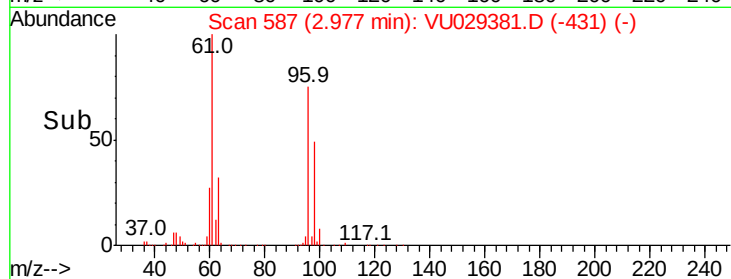
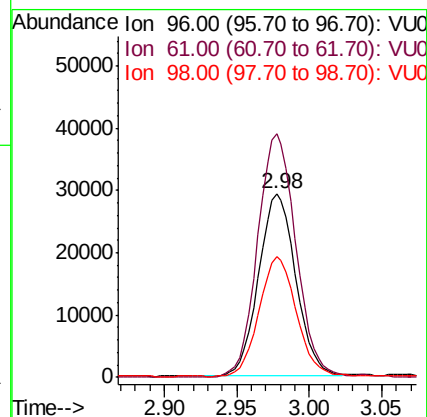
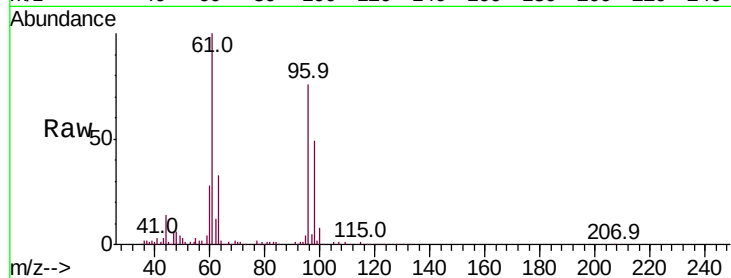




#16
trans-1,2-Dichloroethene
Concen: 2.851 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

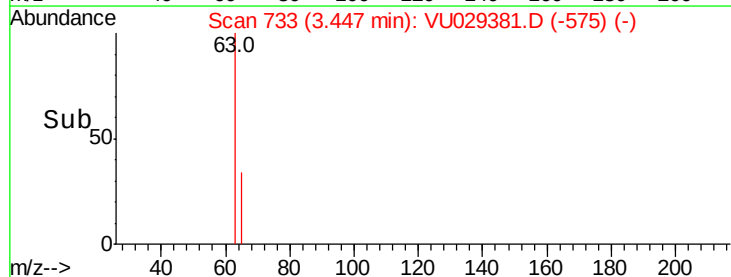
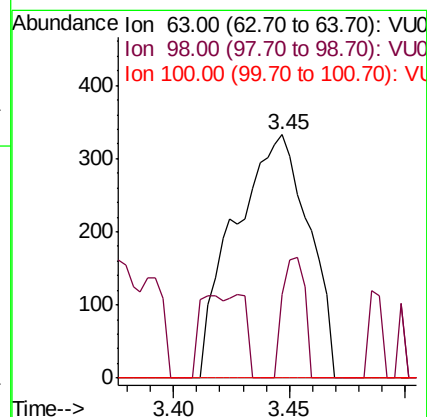
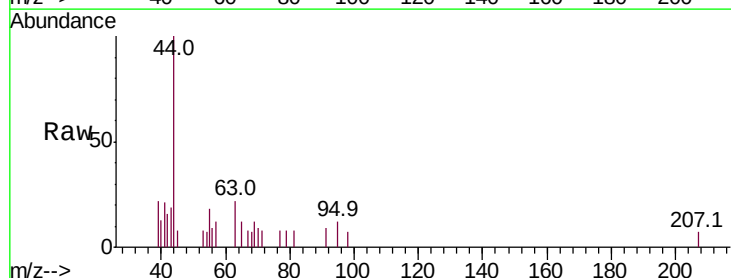
Instrument :
MSVOA_U
ClientSampleId :

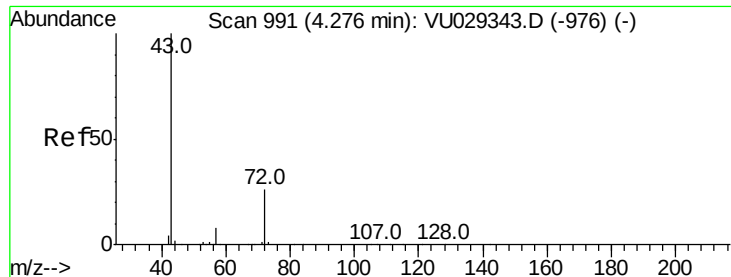
Tot Ion: 96 Resp: 52695
Ion Ratio Lower Upper
96 100
61 133.2 140.6 210.8#
98 65.1 49.3 73.9



#17
1,1-Dichloroethane
Concen: 0.025 ug/l
RT: 3.45 min Scan# 733
Delta R.T. 0.01 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 63 Resp: 739
Ion Ratio Lower Upper
63 100
98 34.2 2.9 8.8#
100 0.0 1.7 5.1#

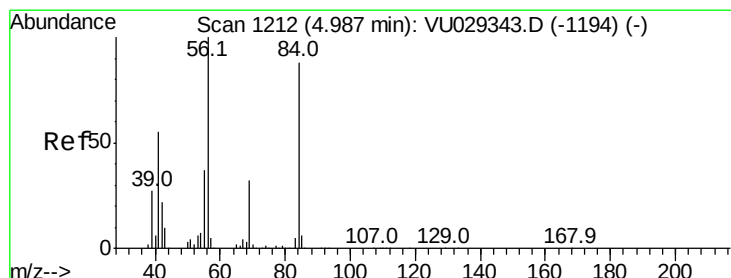
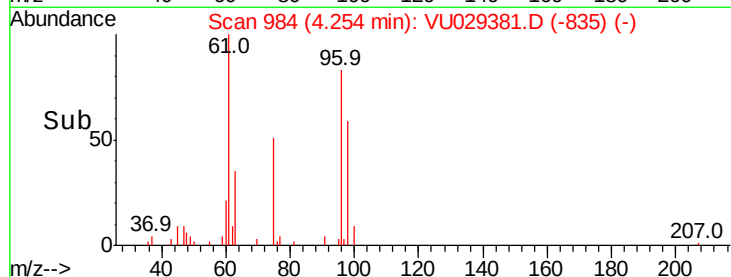
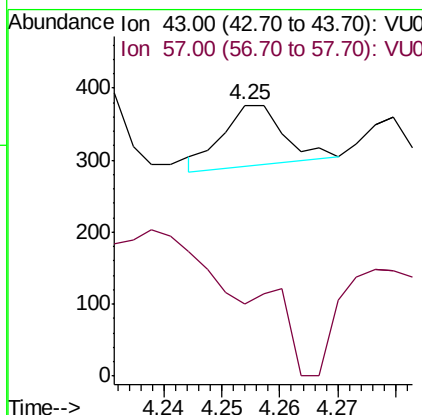
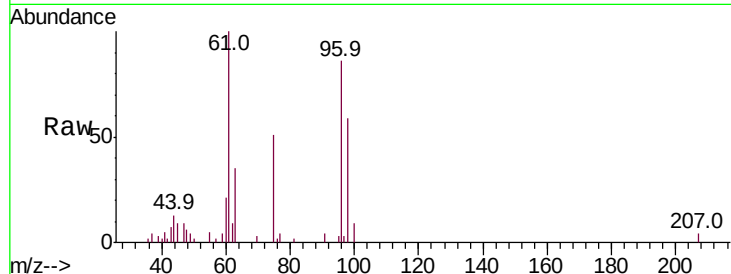




#18
2-Butanone
Concen: 0.016 ug/l
RT: 4.25 min Scan# 984
Delta R.T. -0.02 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

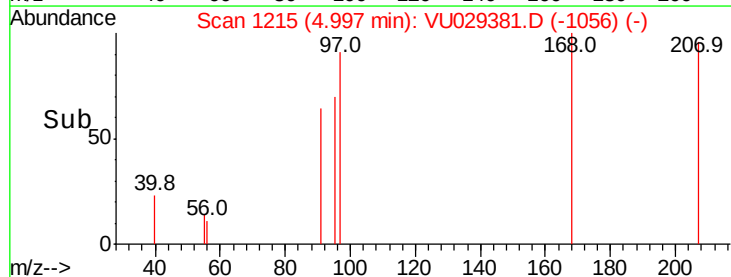
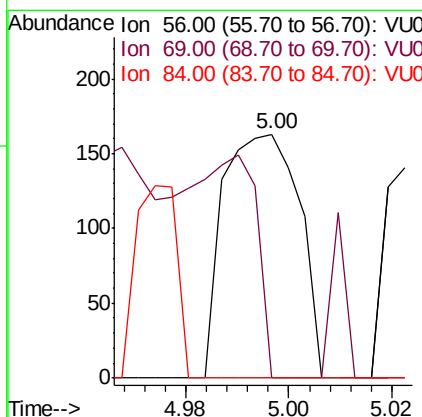
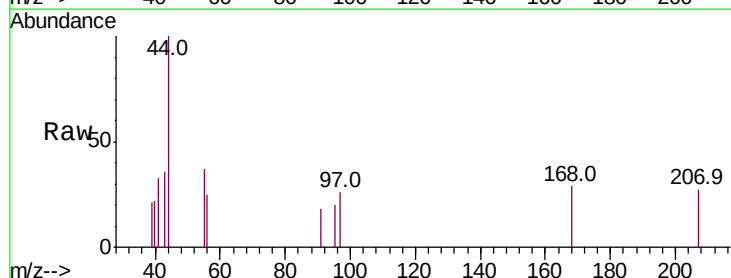
Instrument :
MSVOA_U
ClientSampled :

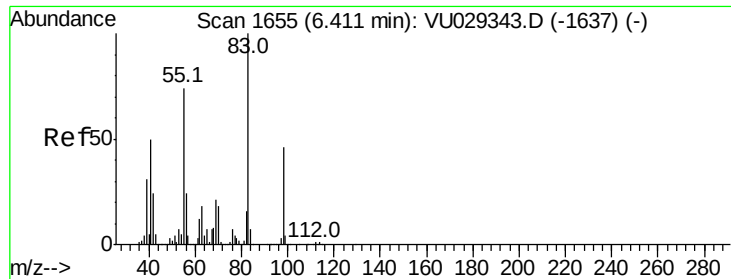
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
57 0.0 0.0 15.8



#19
Cyclohexane
Concen: 0.006 ug/l
RT: 5.00 min Scan# 1215
Delta R.T. 0.01 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 56 Resp: 165
Ion Ratio Lower Upper
56 100
69 0.0 26.8 40.2#
84 0.0 71.5 107.3#





#20

Methylcyclohexane

Concen: 0.006 ug/l

RT: 6.42 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

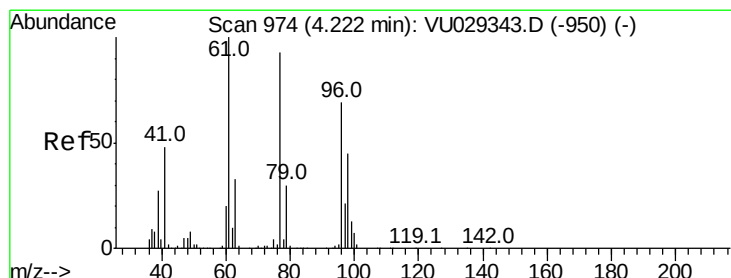
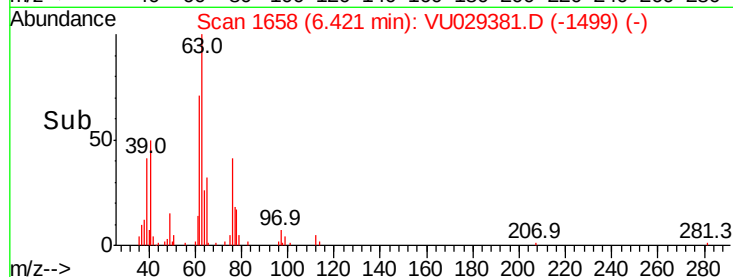
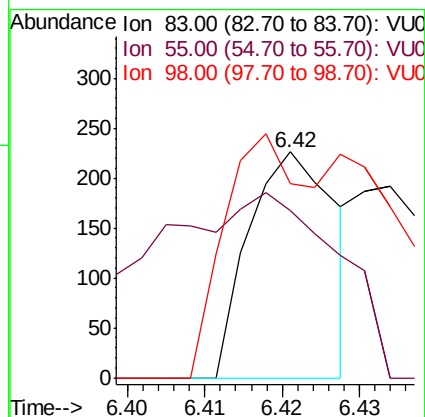
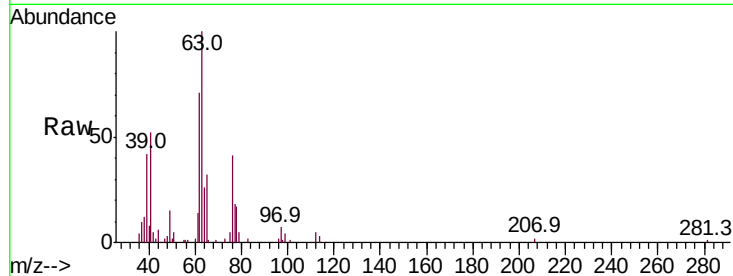
Tot Ion: 83 Resp: 176

Ion Ratio Lower Upper

83 100

55 160.8 72.4 108.6#

98 106.8 36.6 54.8#



#21

2,2-Dichloropropane

Concen: 0.019 ug/l

RT: 4.22 min Scan# 975

Delta R.T. 0.00 min

Lab File: VU029381.D

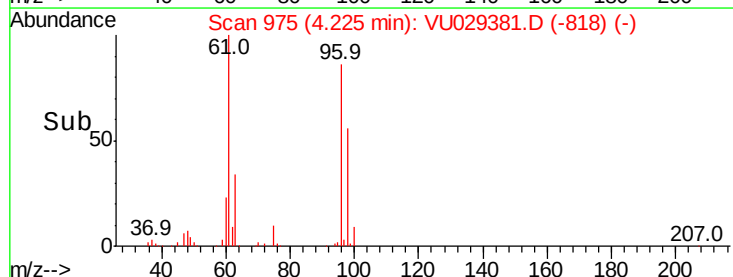
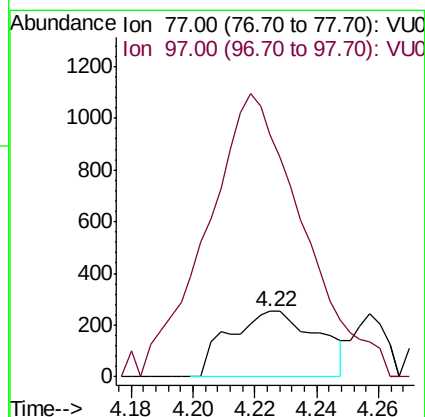
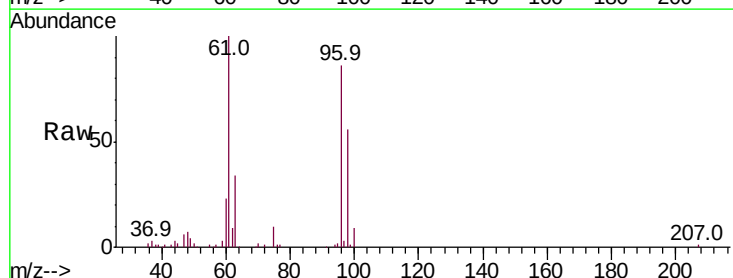
Acq: 08 Feb 2019 16:24

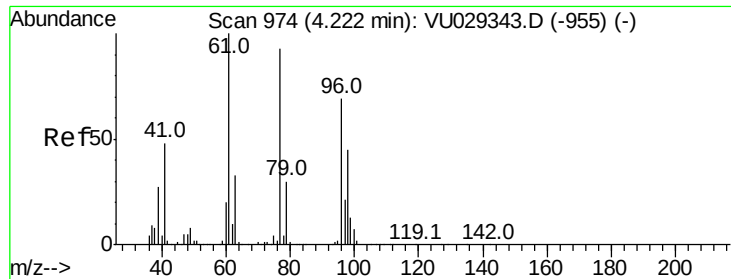
Tgt Ion: 77 Resp: 506

Ion Ratio Lower Upper

77 100

97 470.8 15.6 23.4#



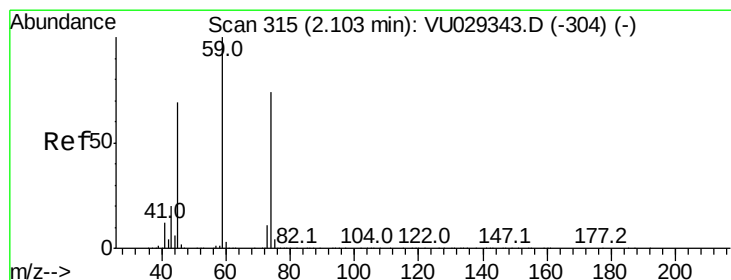
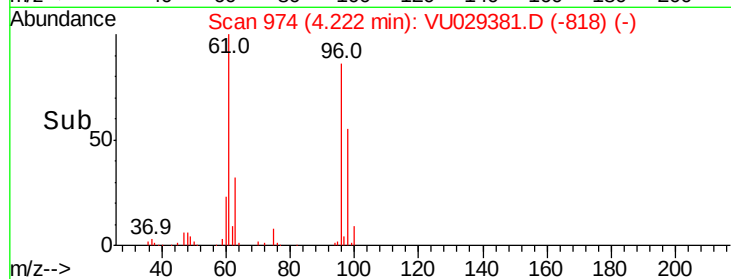
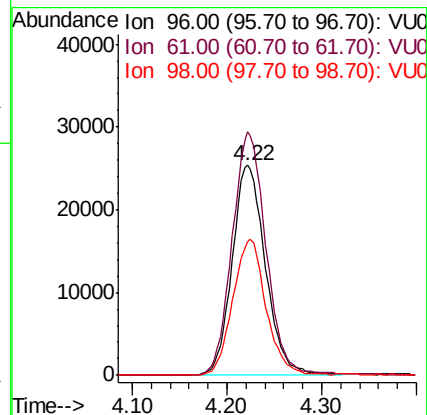
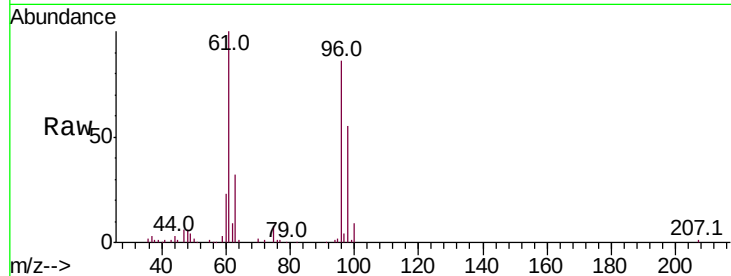


#22

cis-1,2-Dichloroethene
 Concen: 3.572 ug/l
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Instrument :
 MSVOA_U
 ClientSampleId :

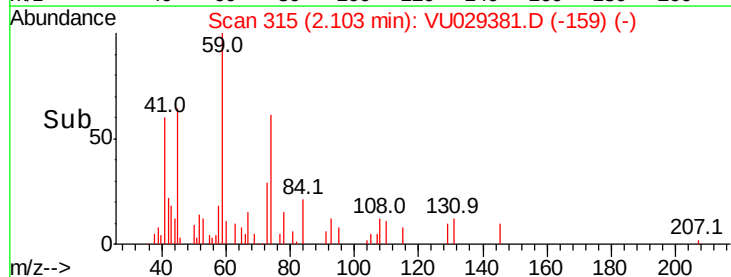
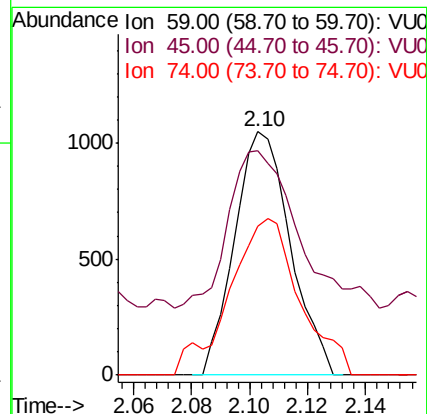
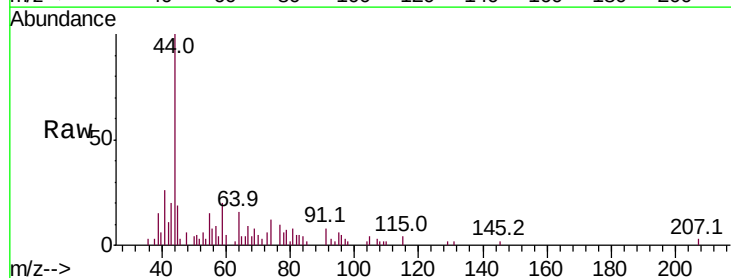
Tot Ion: 96 Resp: 62190
 Ion Ratio Lower Upper
 96 100
 61 117.0 0.0 460.0
 98 64.2 32.6 97.7

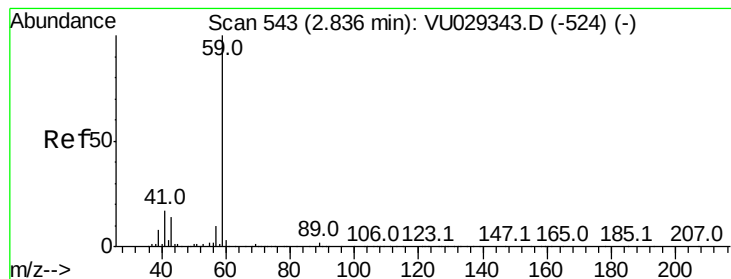


#23

Diethyl Ether
 Concen: 0.106 ug/l
 RT: 2.10 min Scan# 315
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Tgt Ion: 59 Resp: 1401
 Ion Ratio Lower Upper
 59 100
 45 79.7 64.2 96.4
 74 80.8 55.3 82.9



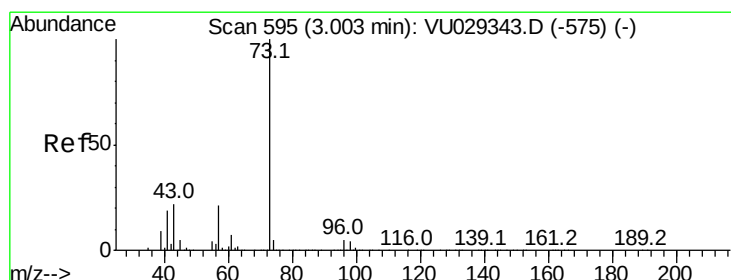
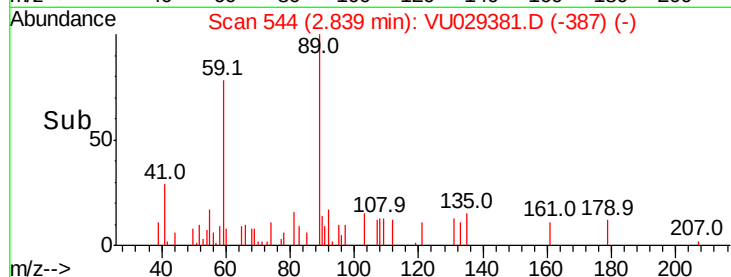
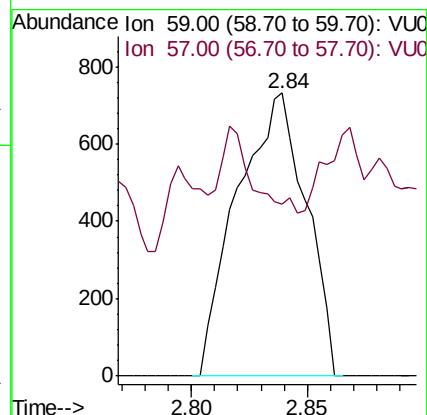
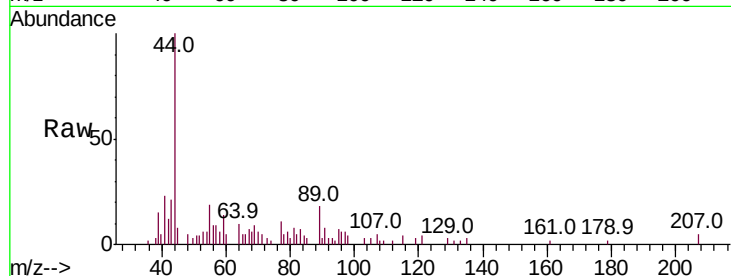


#24

tert-Butyl Alcohol
Concen: 1.094 ug/l
RT: 2.84 min Scan# 544
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Instrument :
MSVOA_U
ClientSampled :

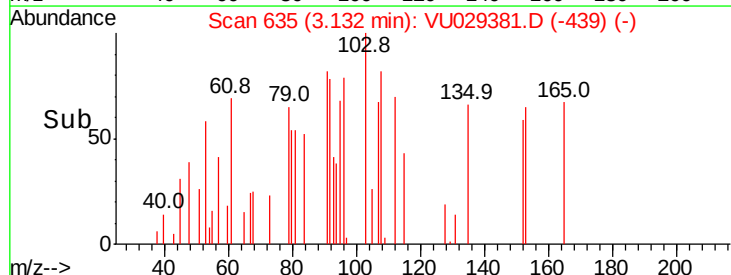
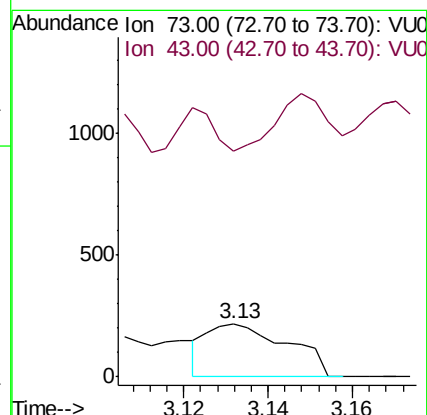
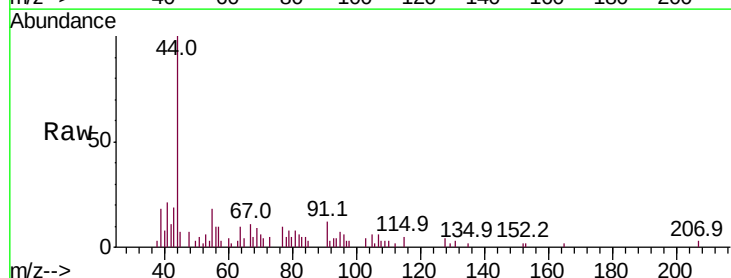
Tot Ion: 59 Resp: 1509
Ion Ratio Lower Upper
59 100
57 16.5 8.8 13.2#

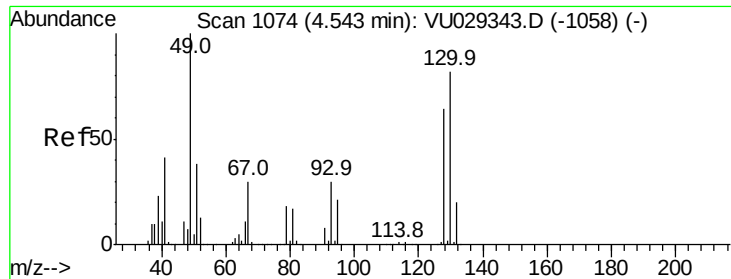


#25

Methyl tert-Butyl Ether
Concen: 0.006 ug/l
RT: 3.13 min Scan# 635
Delta R.T. 0.13 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 73 Resp: 290
Ion Ratio Lower Upper
73 100
43 31.0 22.1 33.1

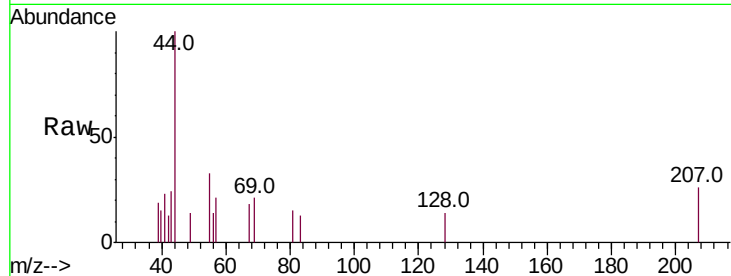




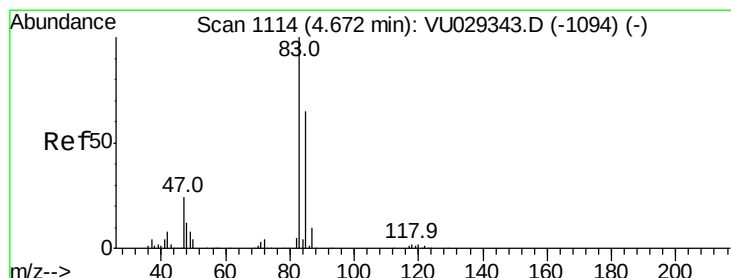
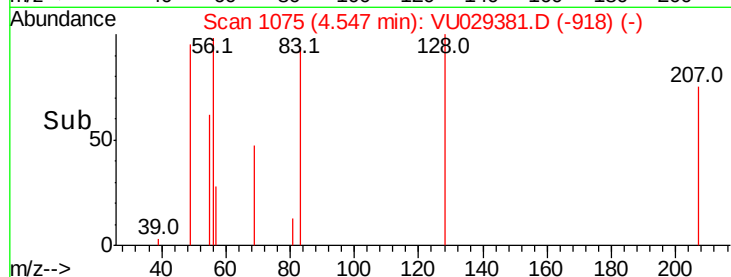
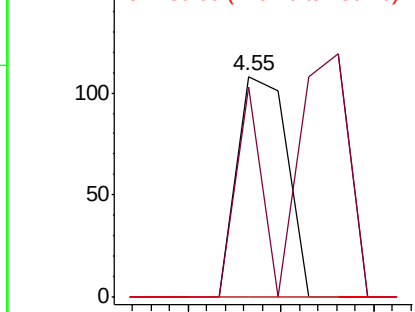
#26
Bromochloromethane
Concen: 0.005 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 40
Ion Ratio Lower Upper
128 100
49 0.0 0.0 401.6
130 0.0 108.0 162.0#

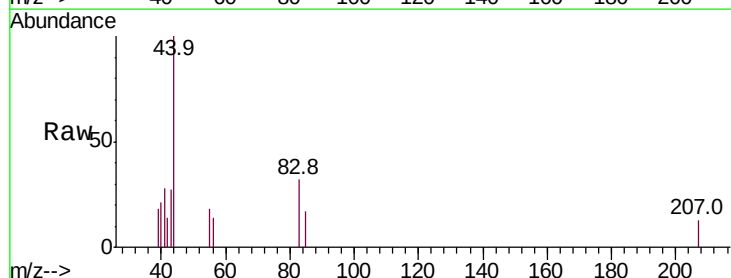


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VU0
Ion 130.00 (129.70 to 130.70): V

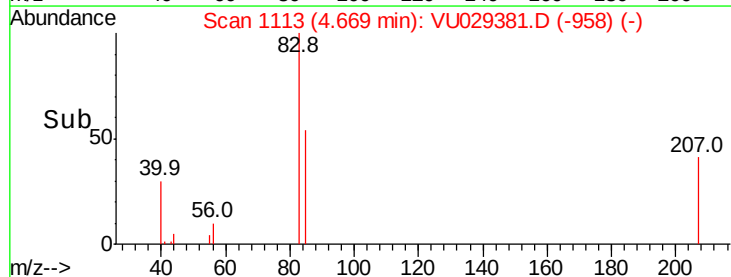
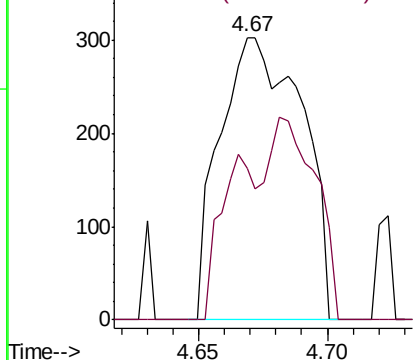


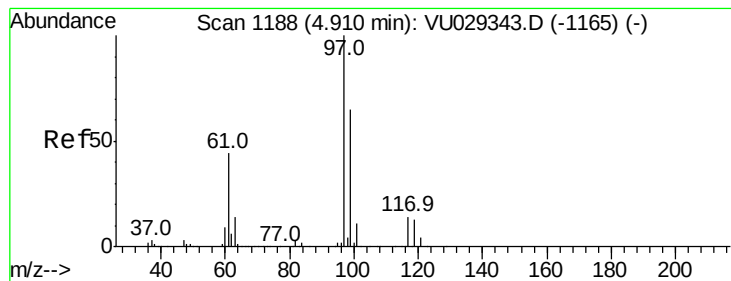
#27
Chloroform
Concen: 0.024 ug/l
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 83 Resp: 673
Ion Ratio Lower Upper
83 100
85 53.8 0.0 126.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0





#28

1,1,1-Trichloroethane

Concen: 3.720 ug/l

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

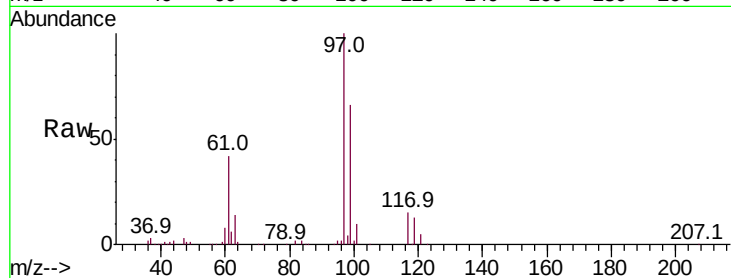
Tot Ion: 97 Resp: 98217

Ion Ratio Lower Upper

97 100

99 65.4 32.4 97.2

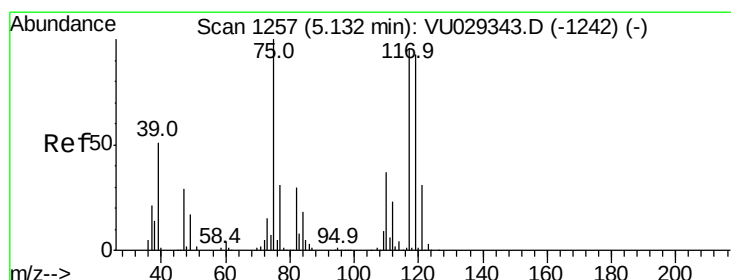
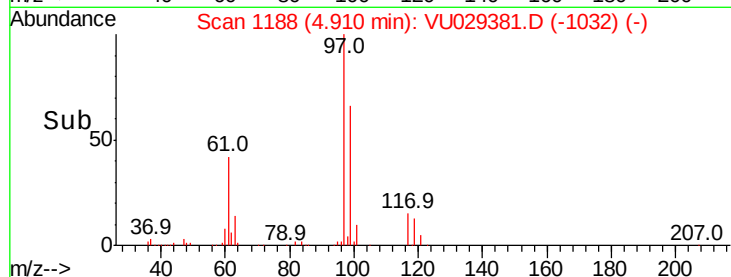
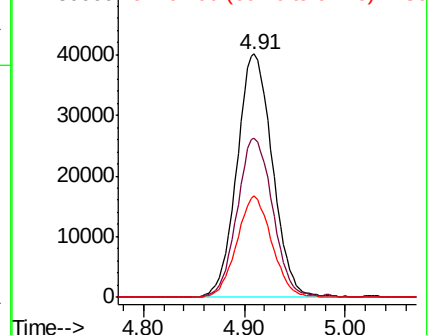
61 41.0 24.4 73.2



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



#29

1,1-Dichloropropene

Concen: 0.011 ug/l

RT: 5.13 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

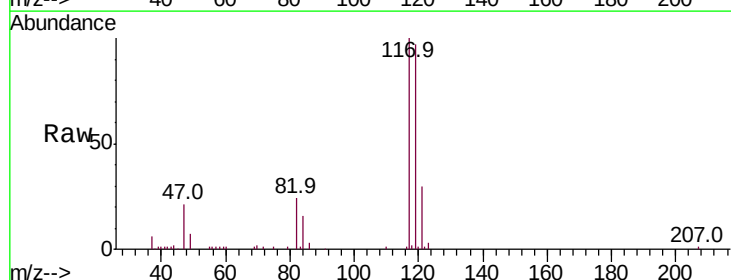
Tgt Ion: 75 Resp: 255

Ion Ratio Lower Upper

75 100

110 77.6 15.4 46.2#

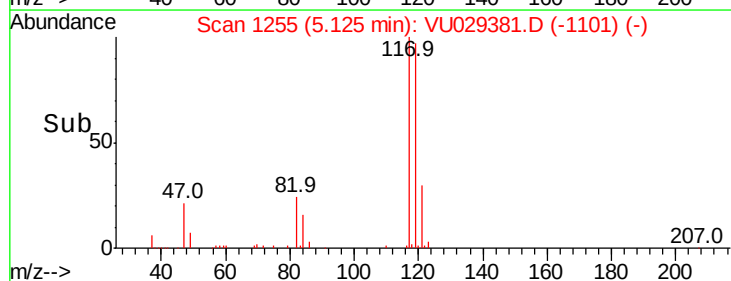
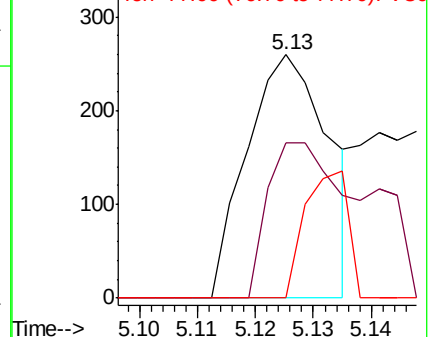
77 0.0 24.1 36.1#

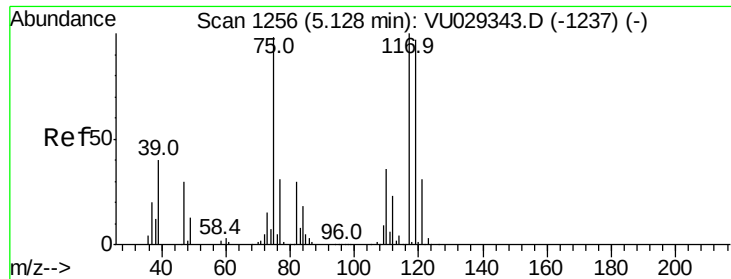


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VU0

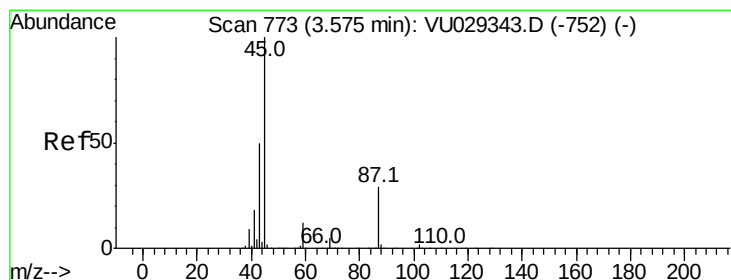
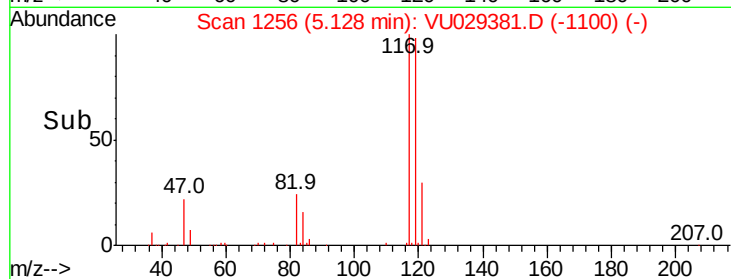
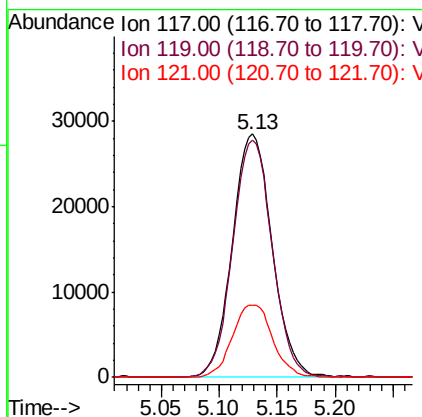
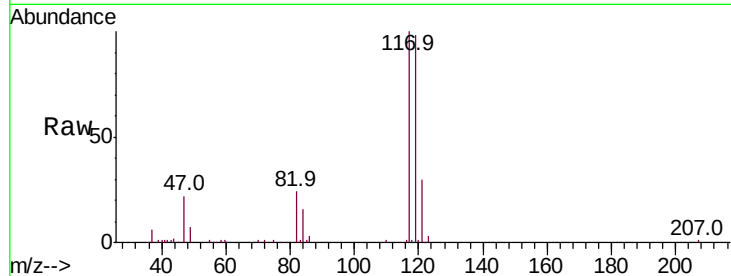




#30
Carbon Tetrachloride
Concen: 2.851 ug/l
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

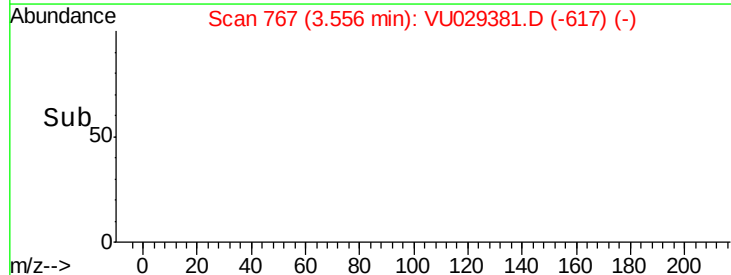
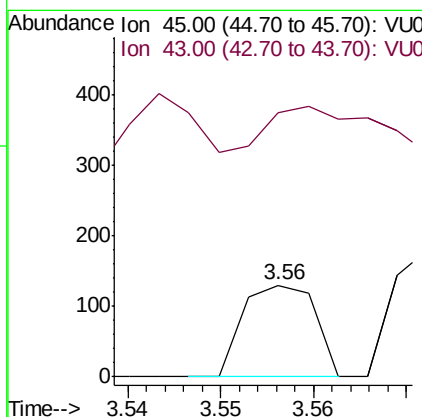
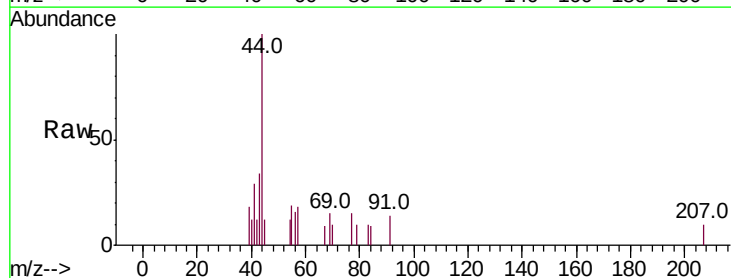
Instrument :
MSVOA_U
ClientSampled :

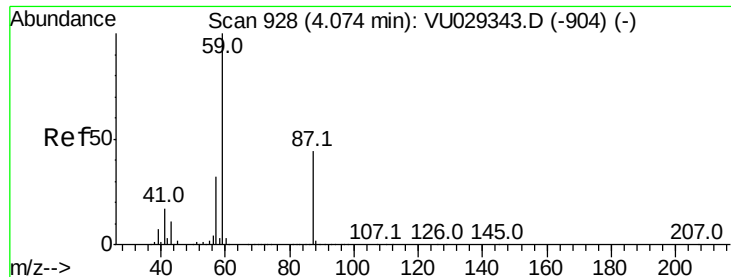
Tot Ion:117 Resp: 68137
Ion Ratio Lower Upper
117 100
119 97.6 76.8 115.2
121 29.6 24.4 36.6



#31
Isopropyl Ether
Concen: 0.002 ug/l
RT: 3.56 min Scan# 767
Delta R.T. -0.02 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 45 Resp: 70
Ion Ratio Lower Upper
45 100
43 72.9 28.4 85.3





#32

Ethyl-t-butyl ether

Concen: 0.042 ug/l

RT: 4.23 min Scan# 976

Delta R.T. 0.15 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

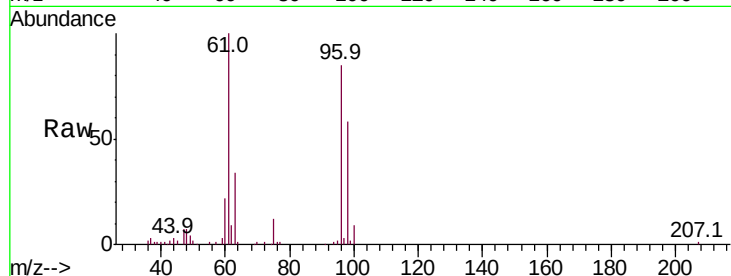
ClientSampleId :

Tot Ion: 59 Resp: 1850

Ion Ratio Lower Upper

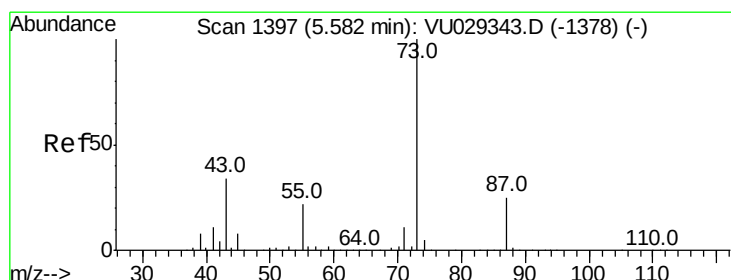
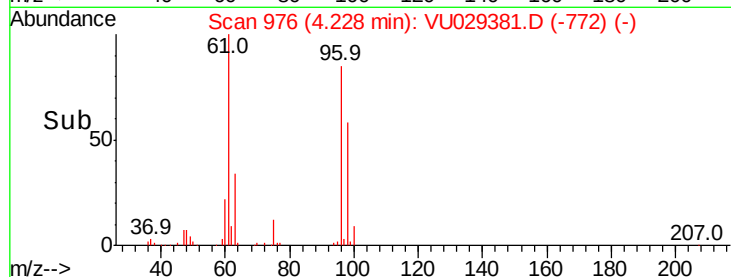
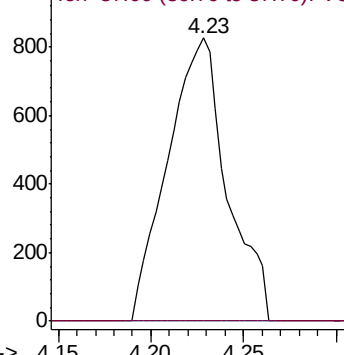
59 100

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-Amyl methyl ether

Concen: 0.102 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.20 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

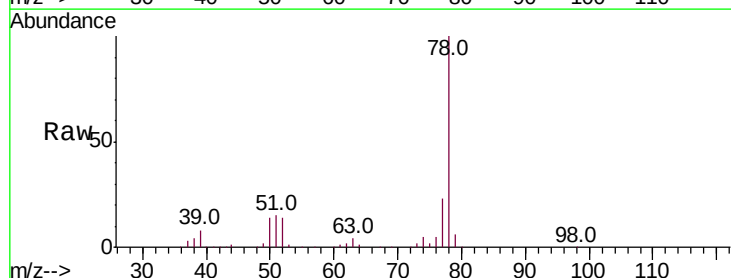
Tgt Ion: 73 Resp: 4086

Ion Ratio Lower Upper

73 100

87 0.0 19.4 29.0#

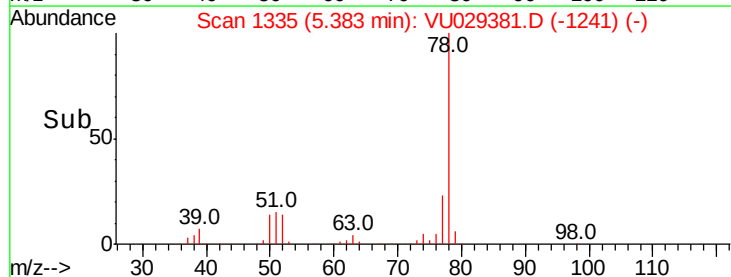
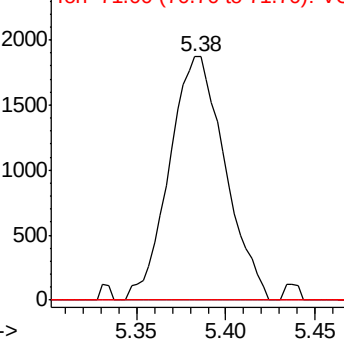
71 1.1 9.0 13.4#

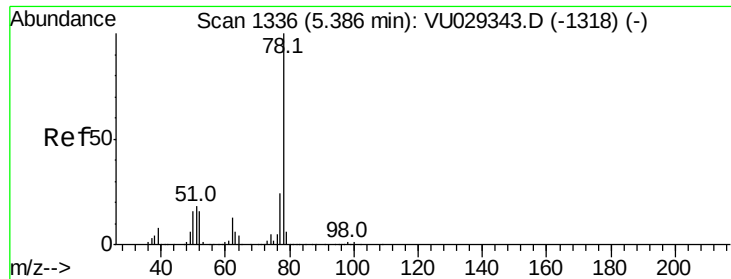


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#35

Benzene

Concen: 3.557 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

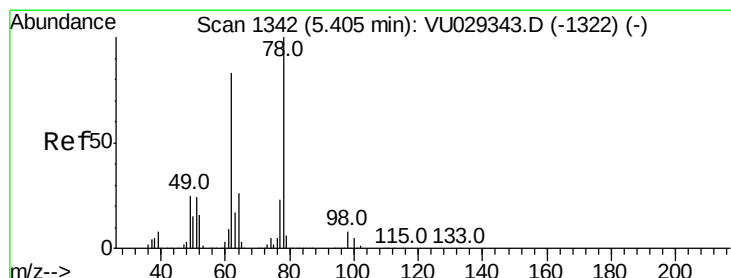
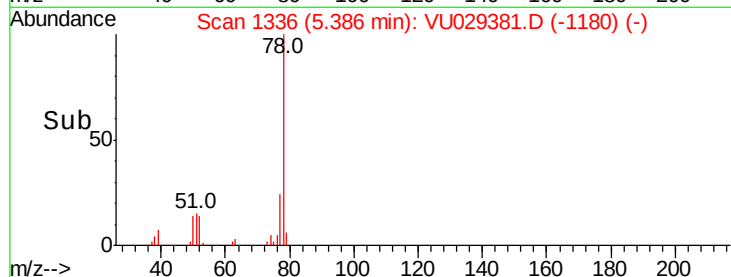
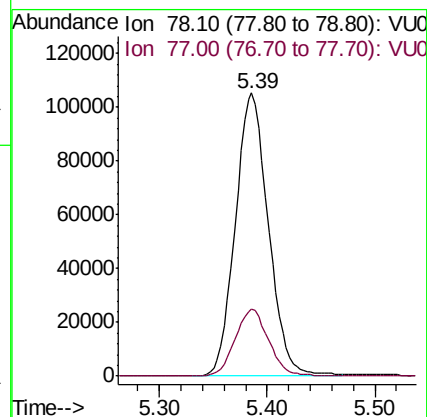
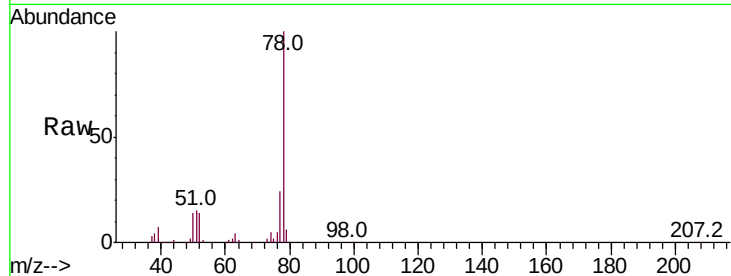
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 78 Resp: 225469

Ion Ratio Lower Upper

78 100

77 23.5 19.8 29.8



#36

1,2-Dichloroethane

Concen: 0.622 ug/l

RT: 5.41 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VU029381.D

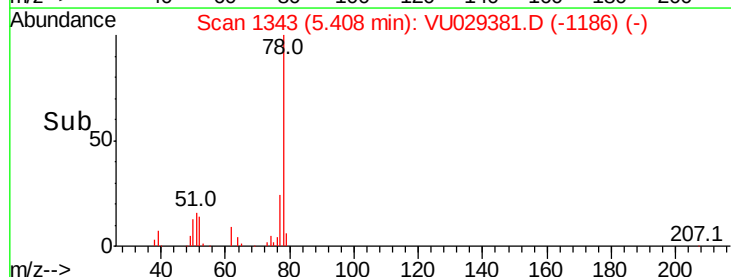
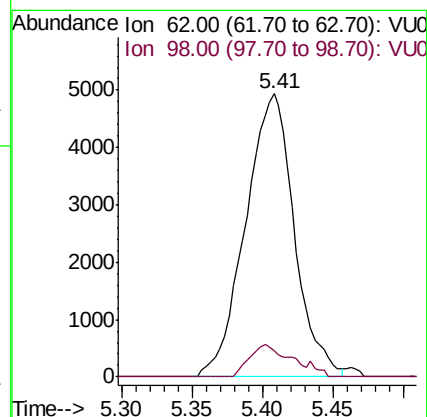
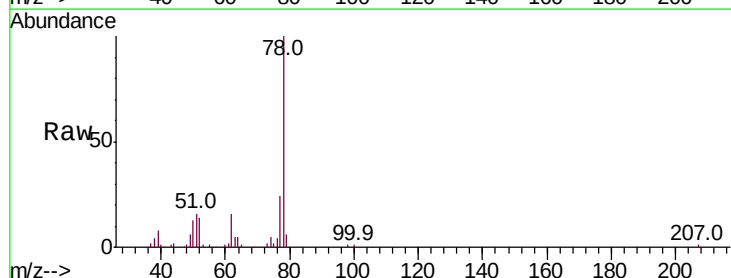
Acq: 08 Feb 2019 16:24

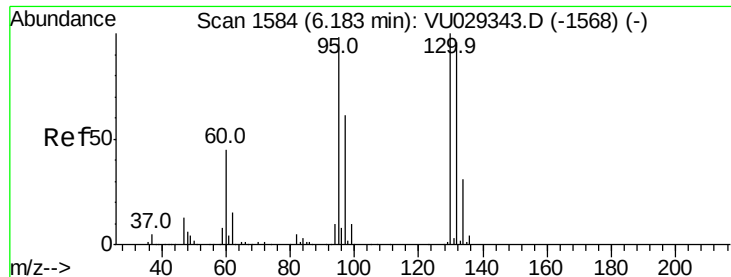
Tgt Ion: 62 Resp: 11925

Ion Ratio Lower Upper

62 100

98 9.1 4.9 7.3#





#37

Trichloroethene

Concen: 3.311 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

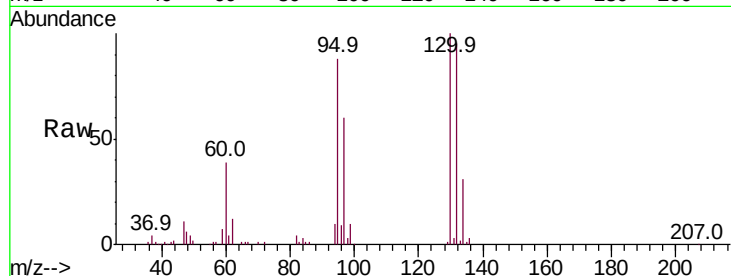
ClientSampleId :

Tot Ion:130 Resp: 60216

Ion Ratio Lower Upper

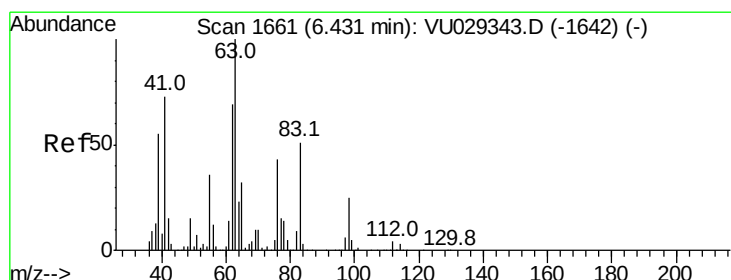
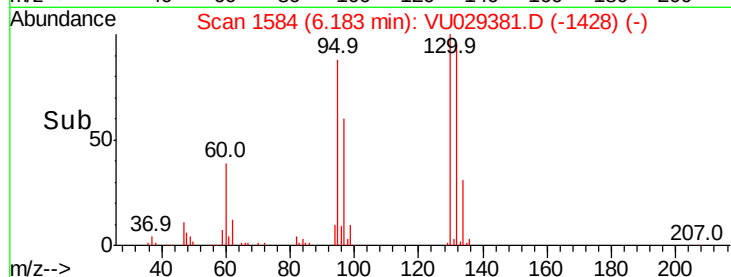
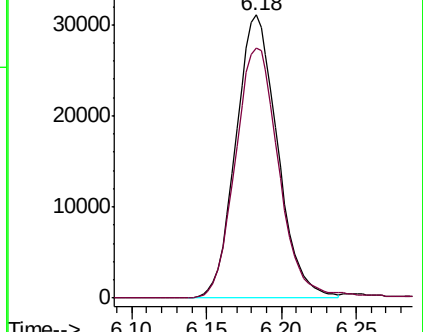
130 100

95 88.4 85.4 128.0



Abundance Ion 129.90 (129.60 to 130.60): VU029343.D (-1568) (-)

Ion 94.90 (94.60 to 95.60): VU029343.D (-1568) (-)



#38

1,2-Dichloropropane

Concen: 2.445 ug/l

RT: 6.43 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VU029381.D

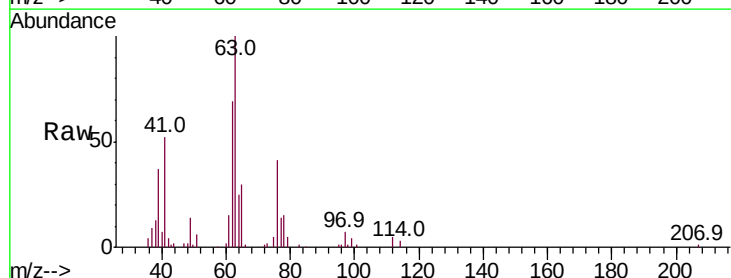
Acq: 08 Feb 2019 16:24

Tgt Ion: 63 Resp: 40308

Ion Ratio Lower Upper

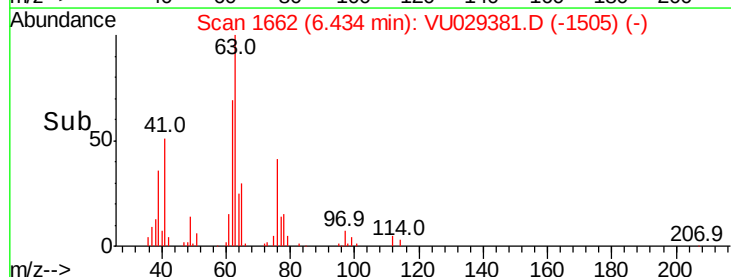
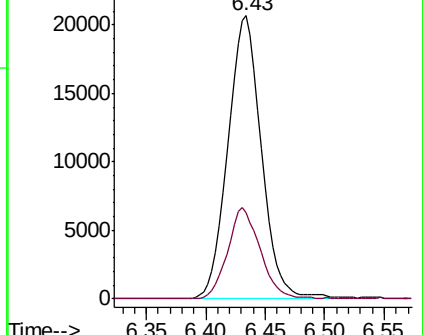
63 100

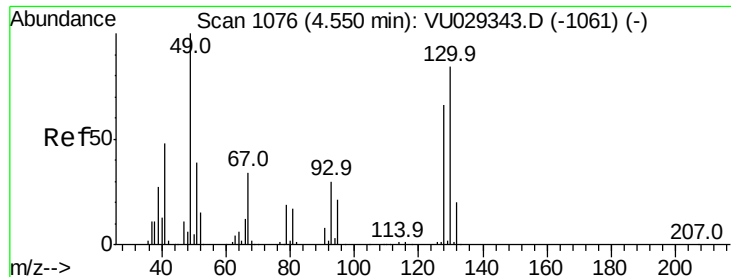
65 30.3 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU029343.D (-1642) (-)

Ion 65.00 (64.70 to 65.70): VU029343.D (-1642) (-)

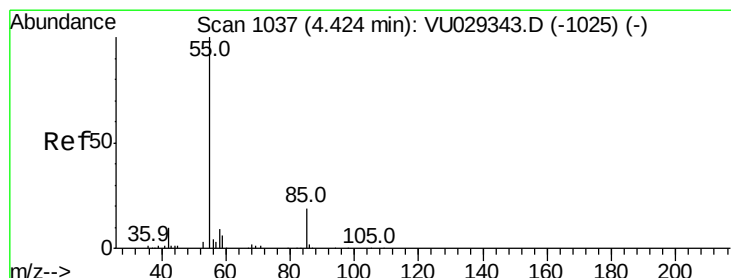
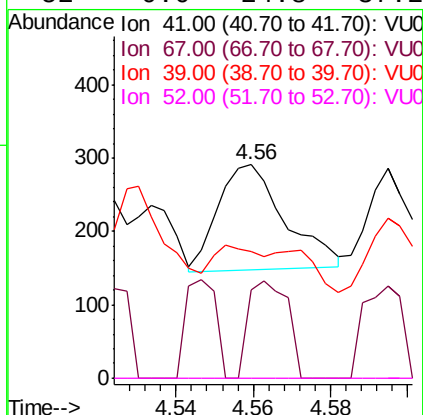
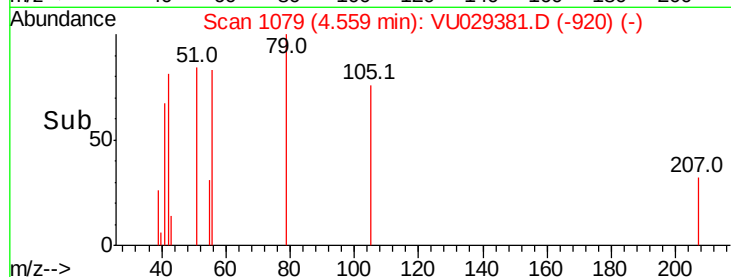
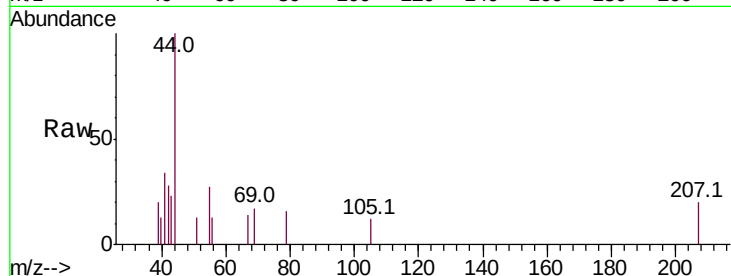




#39
Methacrylonitrile
Concen: 0.032 ug/l
RT: 4.56 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

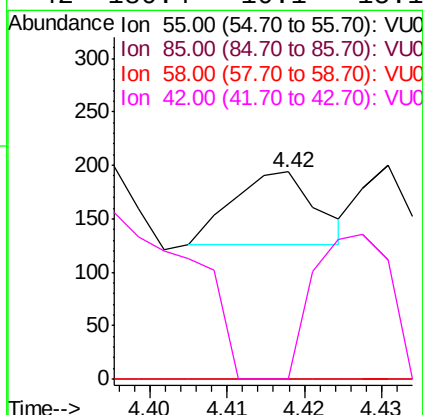
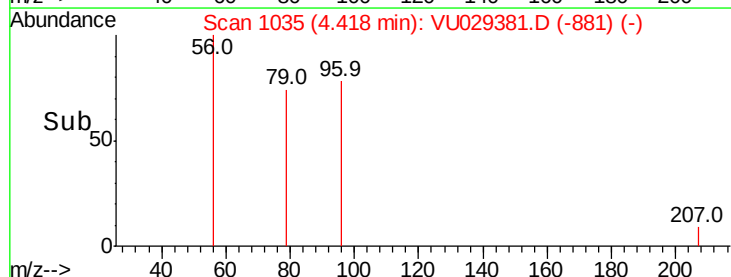
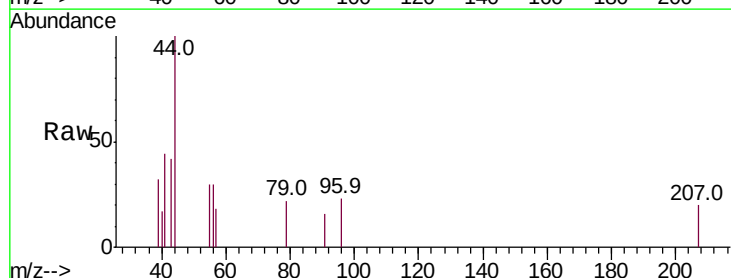
Instrument :
MSVOA_U
ClientSampleId :

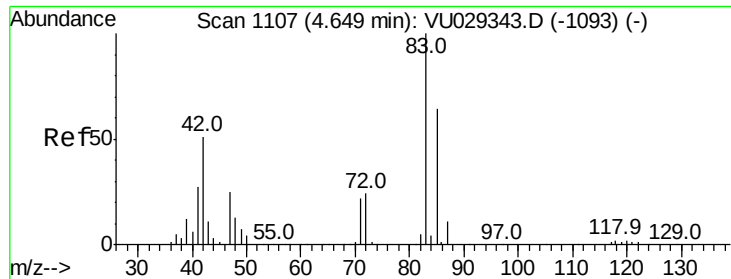
Tot Ion: 41 Resp: 173
Ion Ratio Lower Upper
41 100
67 53.8 50.1 75.1
39 0.0 47.9 71.9#
52 0.0 24.8 37.2#



#40
Methyl acrylate
Concen: 0.006 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 55 Resp: 51
Ion Ratio Lower Upper
55 100
85 0.0 11.3 16.9#
58 0.0 6.2 9.4#
42 180.4 10.1 15.1#





#41

Tetrahydrofuran

Concen: 0.107 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

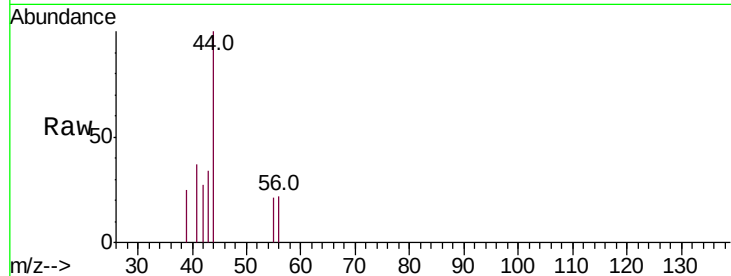
Tot Ion: 42 Resp: 290

Ion Ratio Lower Upper

42 100

72 0.0 33.1 49.7#

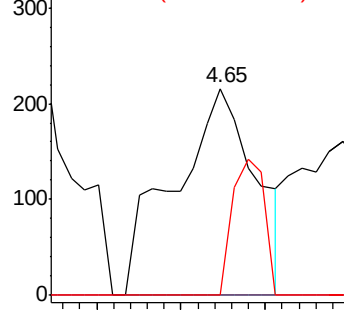
71 25.5 30.2 45.2#



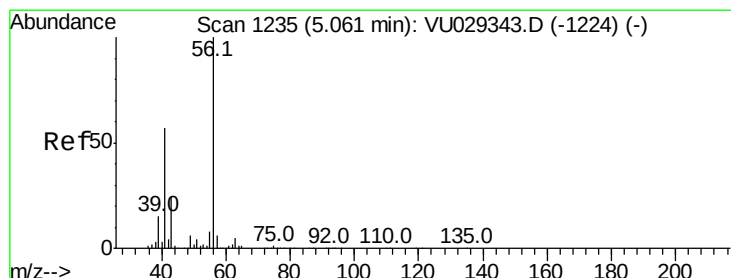
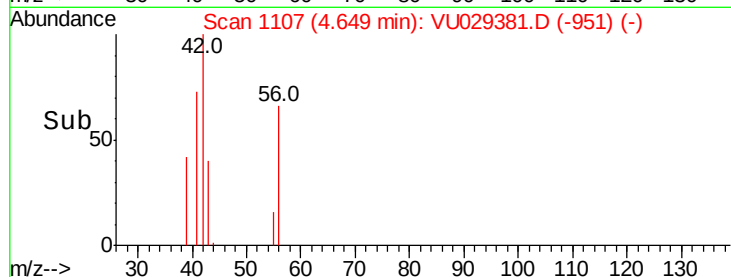
Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



Time-->



#42

1-Chlorobutane

Concen: 0.002 ug/l

RT: 5.02 min Scan# 1223

Delta R.T. -0.04 min

Lab File: VU029381.D

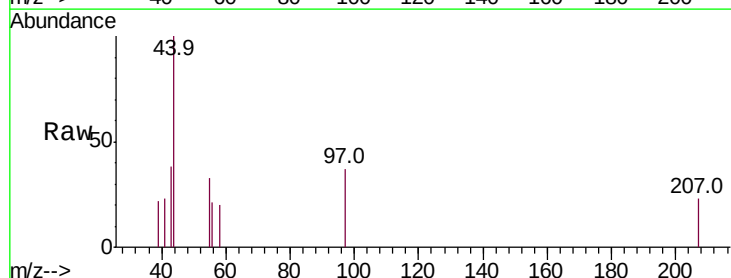
Acq: 08 Feb 2019 16:24

Tgt Ion: 56 Resp: 74

Ion Ratio Lower Upper

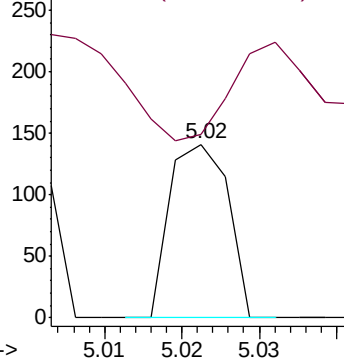
56 100

41 73.0 31.3 93.8

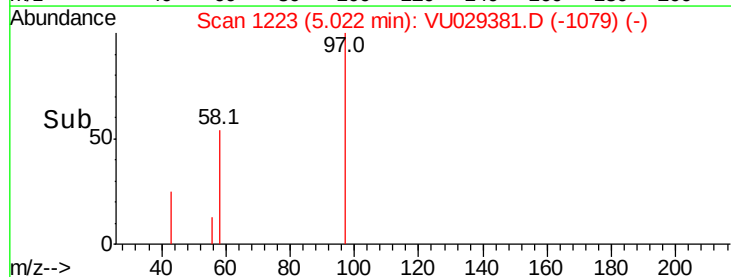


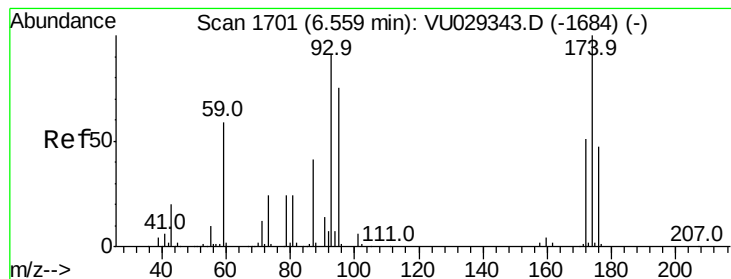
Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 41.00 (40.70 to 41.70): VU0



Time-->





#43

Dibromomethane

Concen: 0.018 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :
MSVOA_U
ClientSampleId :

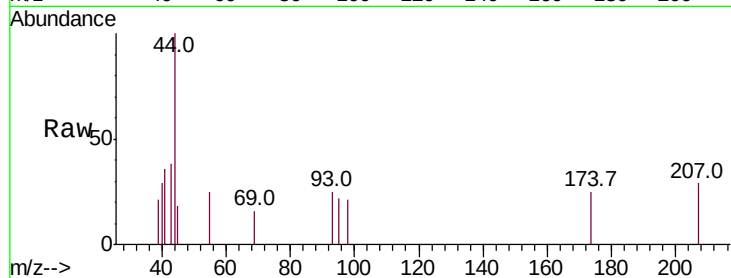
Tot Ion: 93 Resp: 160

Ion Ratio Lower Upper

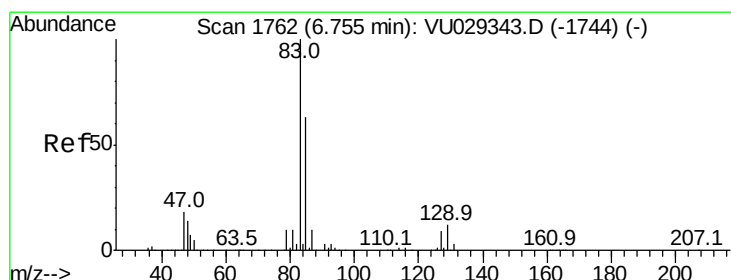
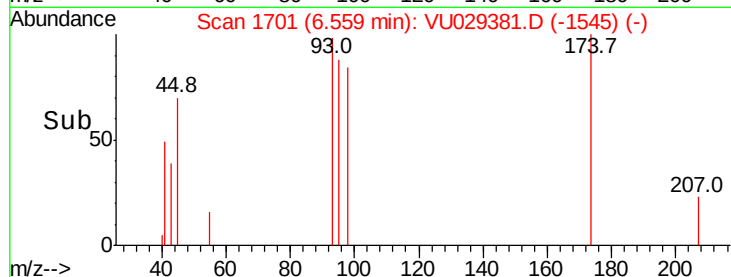
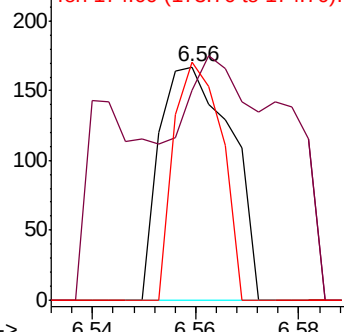
93 100

95 0.0 68.2 102.2#

174 68.8 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: 0.007 ug/l

RT: 6.76 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

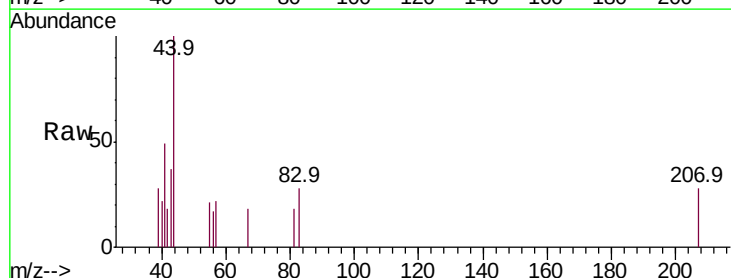
Tgt Ion: 83 Resp: 161

Ion Ratio Lower Upper

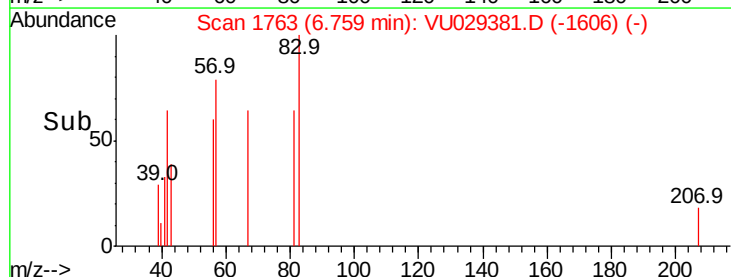
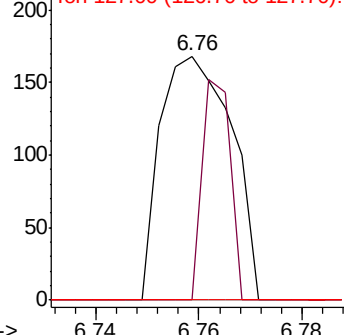
83 100

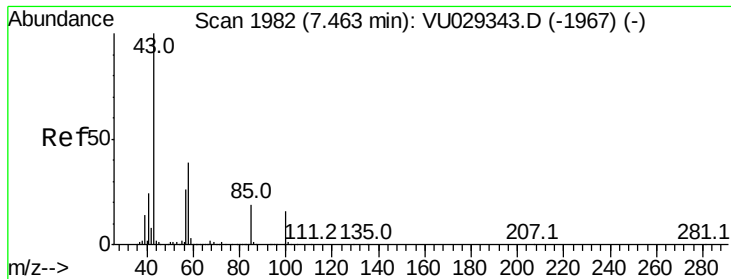
85 0.0 49.2 73.8#

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: 0.019 ug/l

RT: 7.47 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

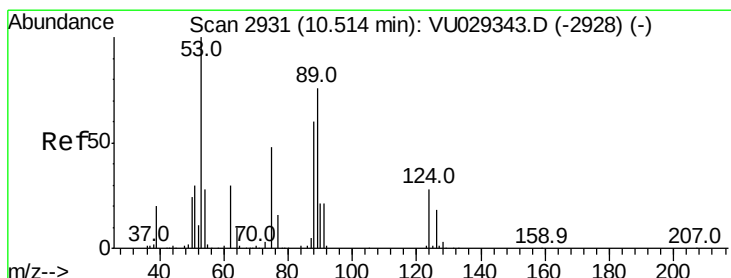
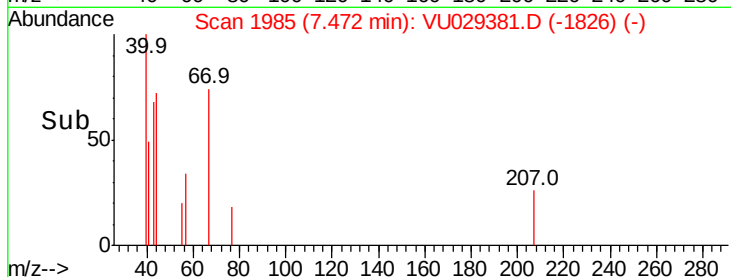
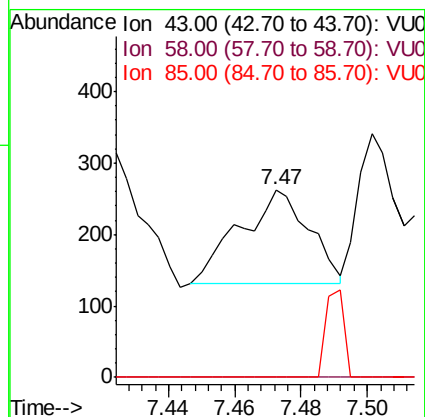
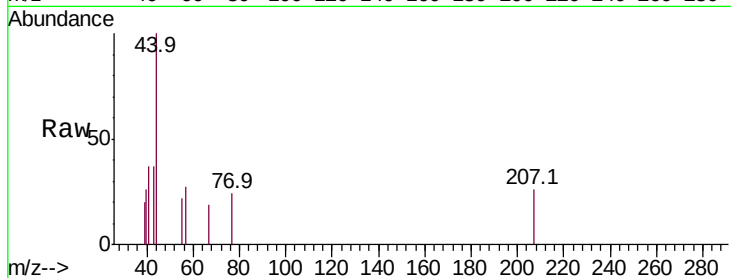
Tot Ion: 43 Resp: 192

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: 2.071 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. -0.21 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Tgt Ion: 75 Resp: 10393

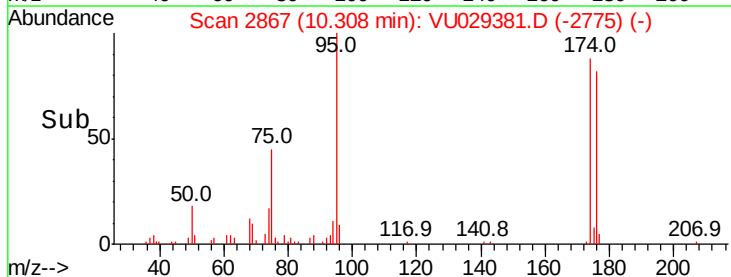
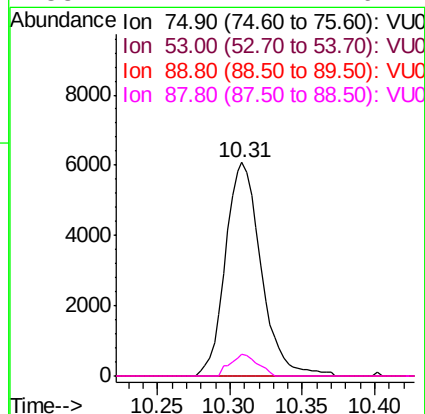
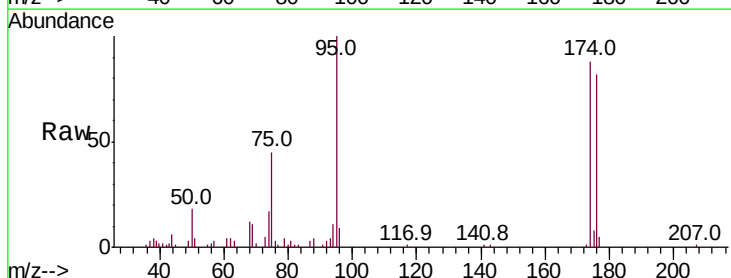
Ion Ratio Lower Upper

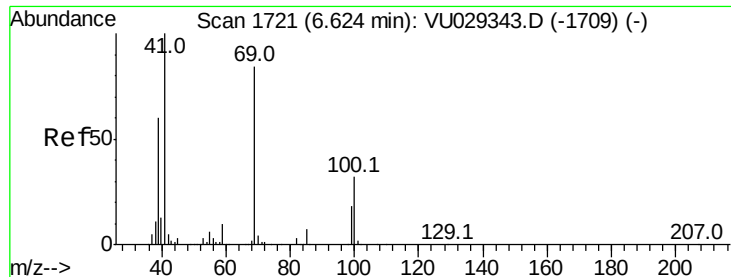
75 100

53 0.0 78.2 117.4#

89 0.0 44.2 66.4#

88 7.7 41.4 62.2#

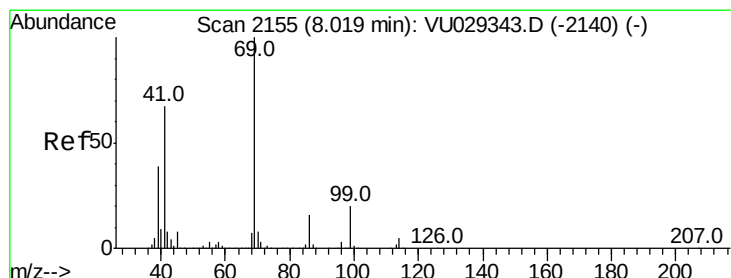
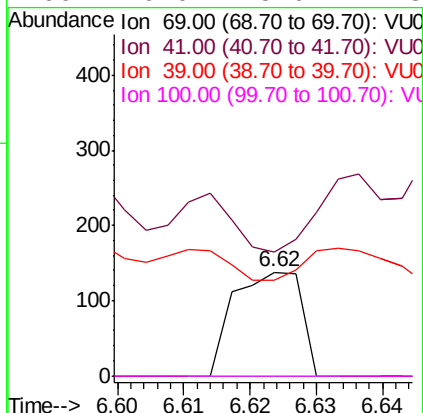
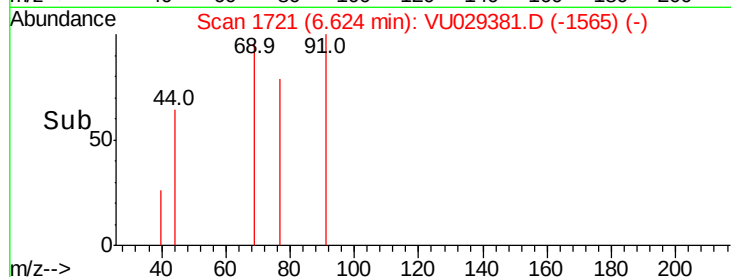
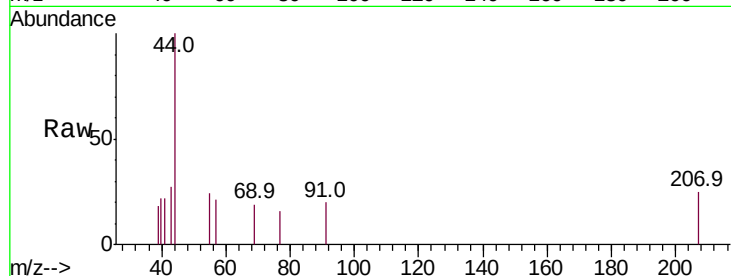




#47
Methyl methacrylate
Concen: 0.013 ug/l
RT: 6.62 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

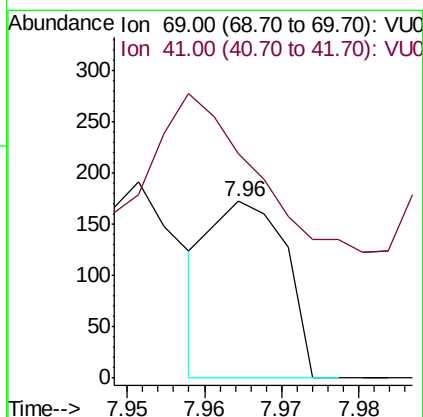
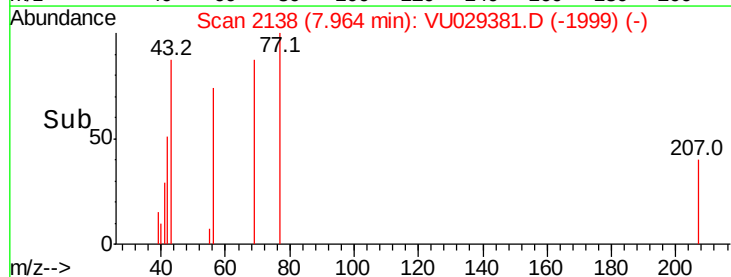
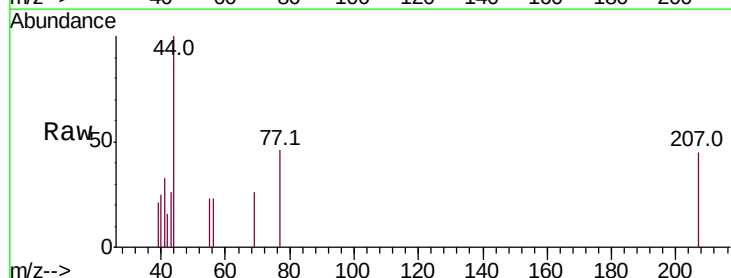
Instrument :
MSVOA_U
ClientSampled :

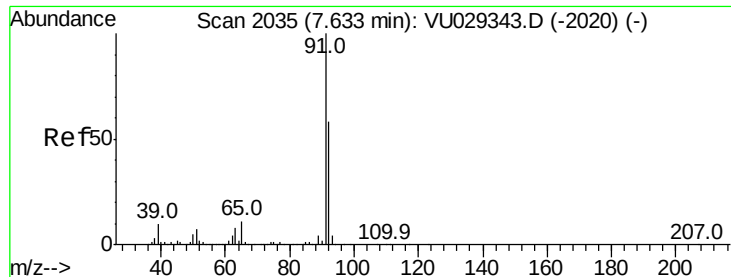
Tot Ion: 69 Resp: 98
Ion Ratio Lower Upper
69 100
41 0.0 0.0 296.2
39 0.0 71.2 106.8#
100 0.0 28.6 42.8#



#48
Ethyl methacrylate
Concen: 0.007 ug/l
RT: 7.96 min Scan# 2138
Delta R.T. -0.05 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 69 Resp: 117
Ion Ratio Lower Upper
69 100
41 112.8 39.9 119.7





#49

Toluene

Concen: 1.427 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

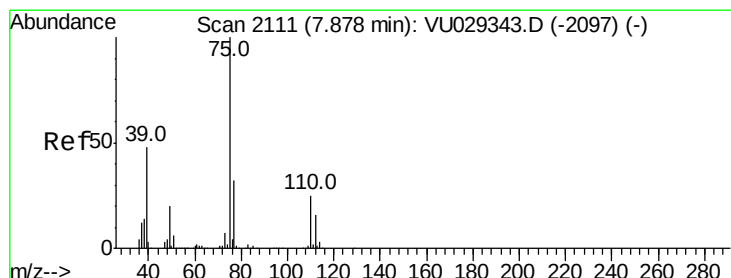
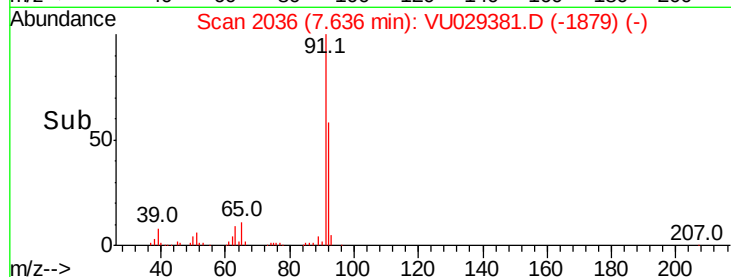
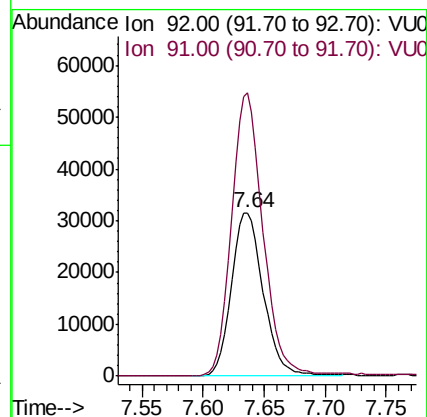
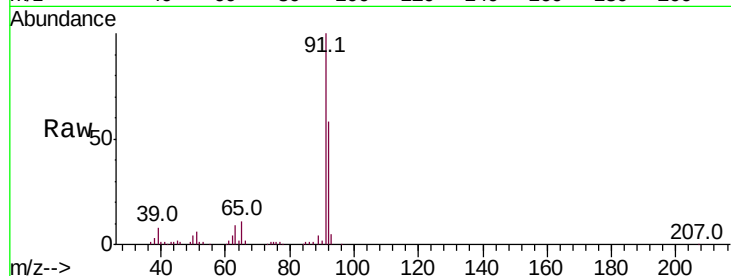
ClientSampleId :

Tot Ion: 92 Resp: 57870

Ion Ratio Lower Upper

92 100

91 169.4 140.7 211.1



#50

t-1,3-Dichloropropene

Concen: 0.023 ug/l

RT: 7.89 min Scan# 2114

Delta R.T. 0.01 min

Lab File: VU029381.D

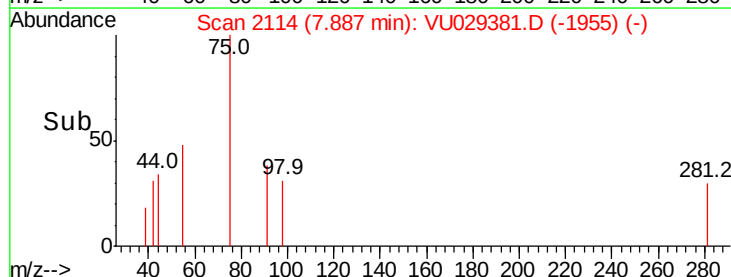
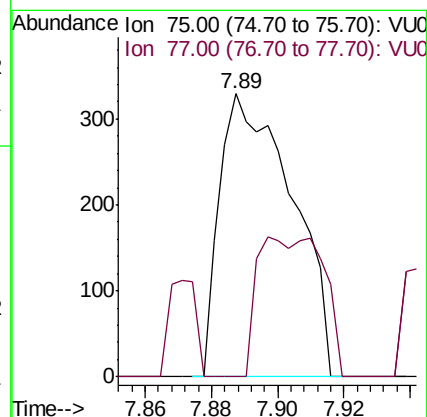
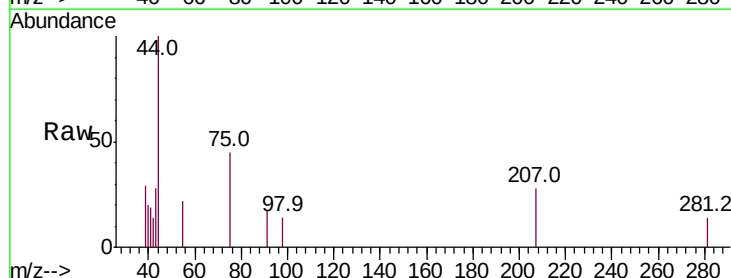
Acq: 08 Feb 2019 16:24

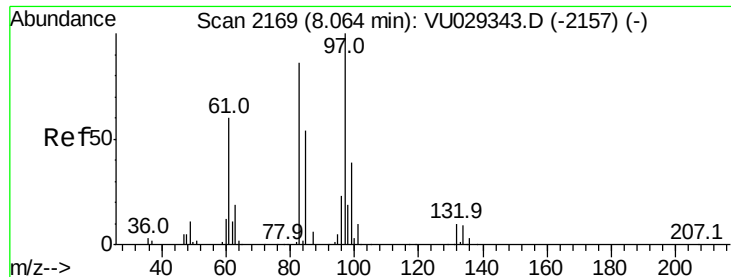
Tgt Ion: 75 Resp: 501

Ion Ratio Lower Upper

75 100

77 0.0 23.6 35.4#

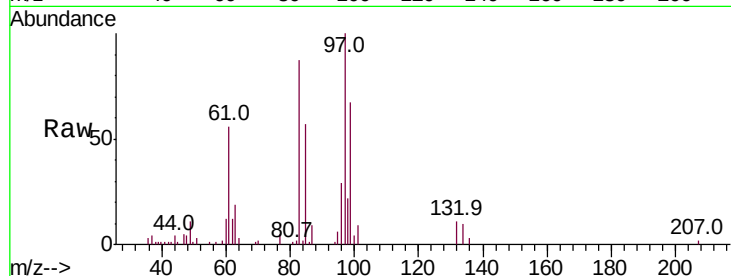




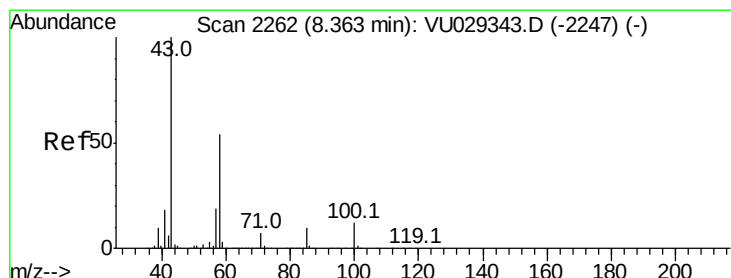
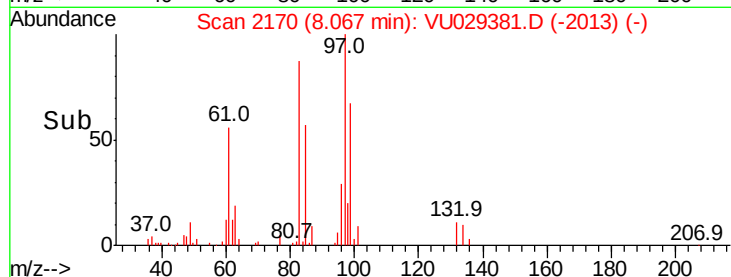
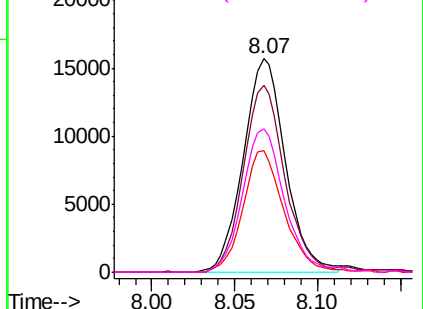
#52
 1,1,2-Trichloroethane
 Concen: 2.383 ug/l
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	27717
Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.9	104.9
85	56.8	45.8	68.6
99	67.1	50.2	75.2

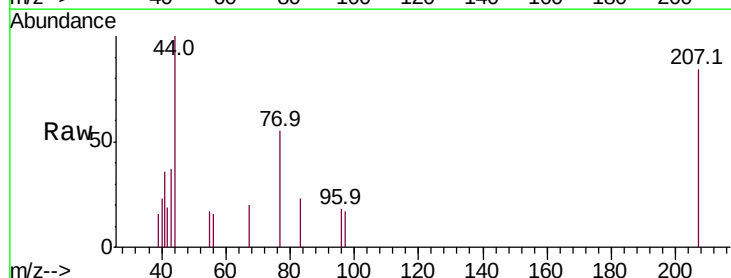


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 84.95 (84.65 to 85.65): VU0
 Ion 98.95 (98.65 to 99.65): VU0

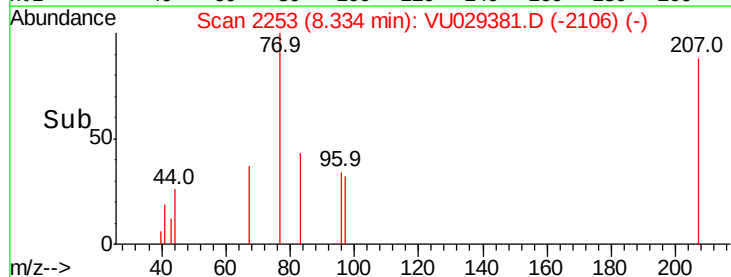
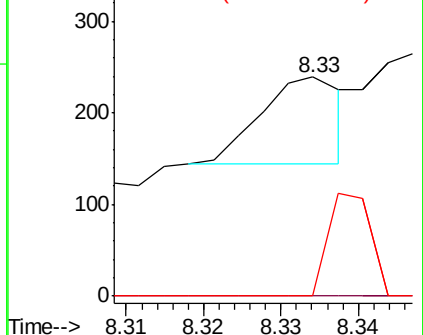


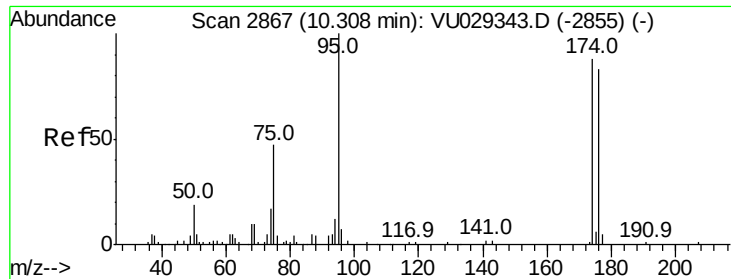
#54
 2-Hexanone
 Concen: 0.009 ug/l
 RT: 8.33 min Scan# 2253
 Delta R.T. -0.03 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Tgt Ion:	43	Resp:	68
Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.0	66.0#
57	61.8	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

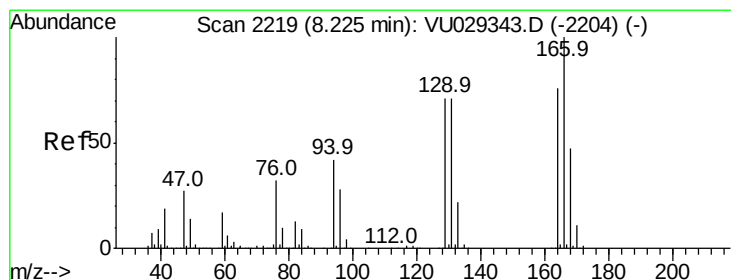
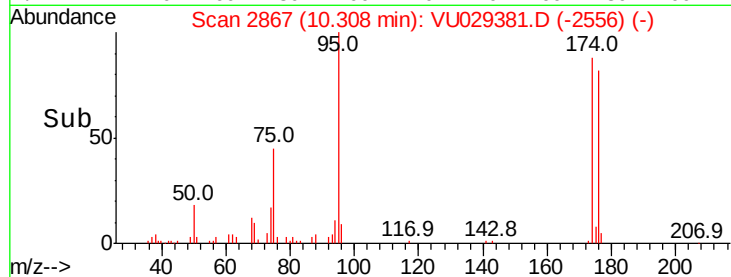
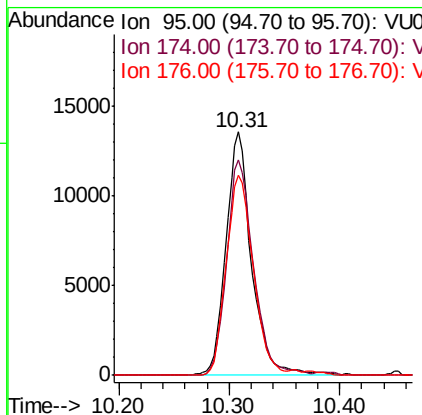
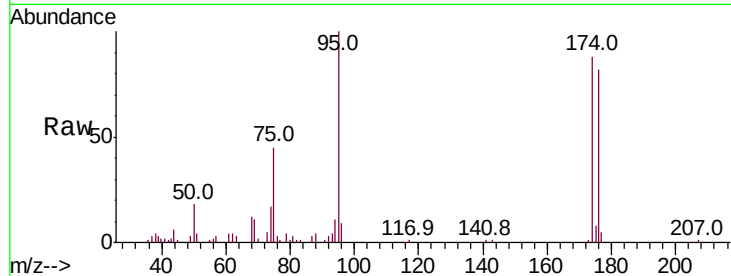




#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 2867
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

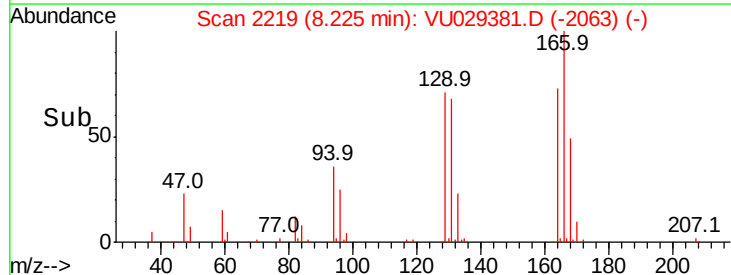
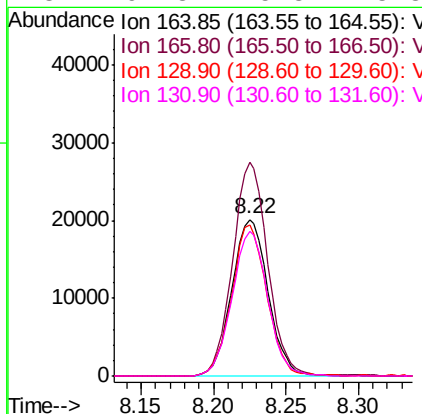
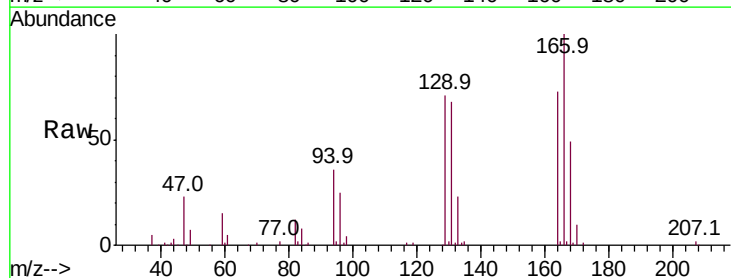
Instrument :
MSVOA_U
ClientSampleId :

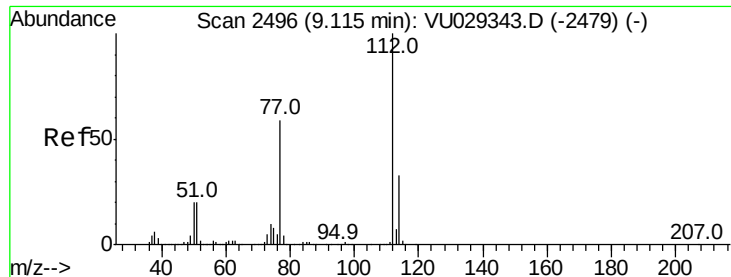
Tot Ion: 95 Resp: 21874
Ion Ratio Lower Upper
95 100
174 92.5 64.2 96.2
176 86.5 62.3 93.5



#58
Tetrachloroethene
Concen: 2.069 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion:164 Resp: 35014
Ion Ratio Lower Upper
164 100
166 136.2 106.6 159.8
129 96.4 79.9 119.9
131 92.3 75.8 113.8





#59

Chlorobenzene

Concen: 2.704 ug/l

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

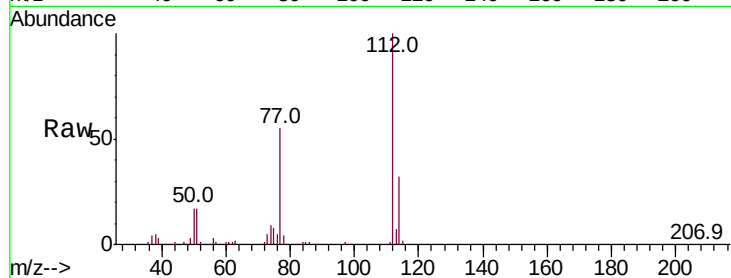
ClientSampleId :

Tot Ion:112 Resp: 123548

Ion Ratio Lower Upper

112 100

114 31.9 26.2 39.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

80000

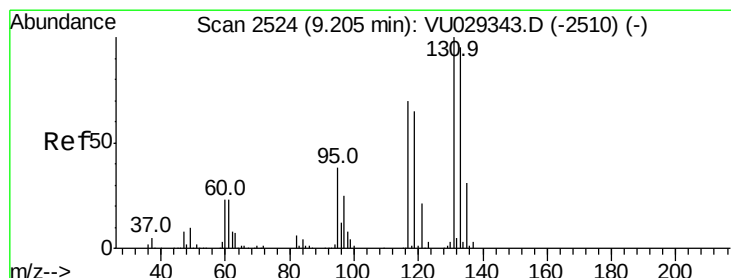
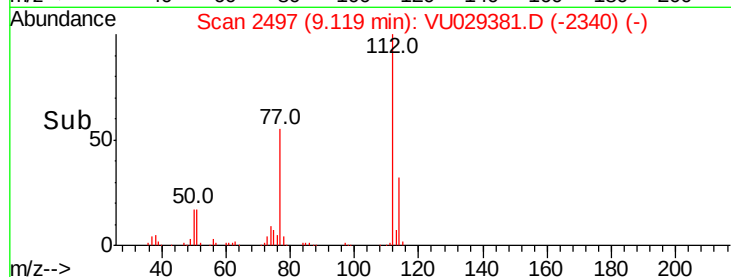
60000

40000

20000

0

Time--> 9.05 9.10 9.15 9.20



#60

1,1,1,2-Tetrachloroethane

Concen: 0.037 ug/l

RT: 9.21 min Scan# 2524

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

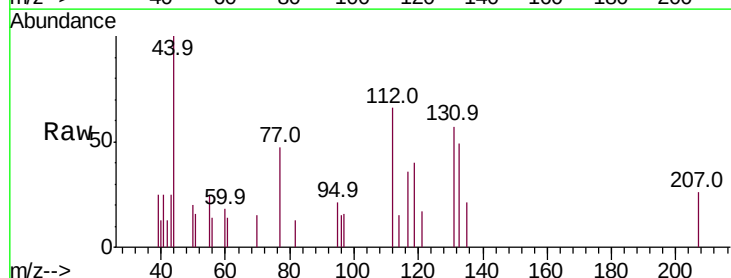
Tgt Ion:131 Resp: 626

Ion Ratio Lower Upper

131 100

133 107.0 77.3 115.9

119 61.8 48.9 73.3



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

600

500

400

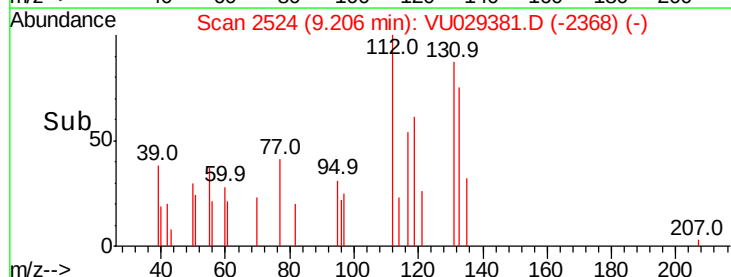
300

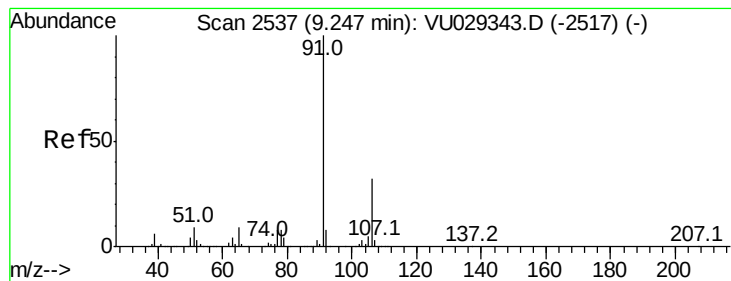
200

100

0

Time--> 9.16 9.18 9.20 9.22 9.24





#63

Ethyl Benzene

Concen: 2.166 ug/l

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

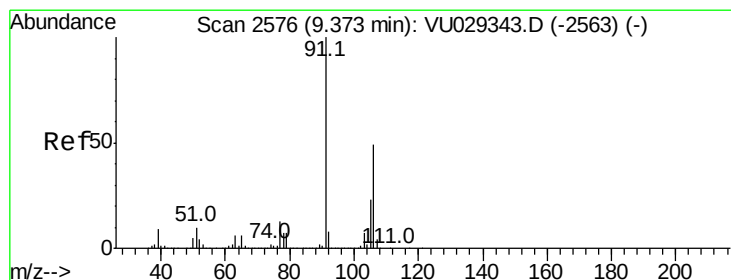
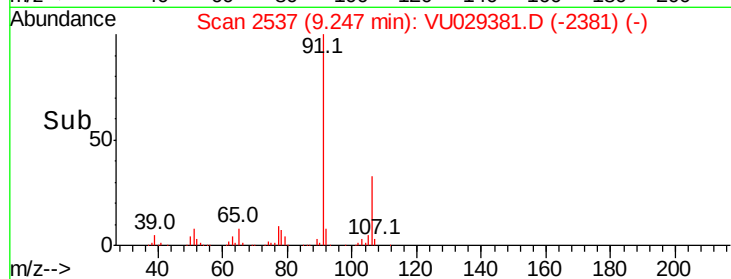
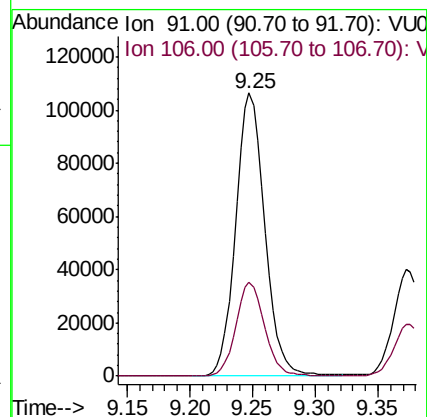
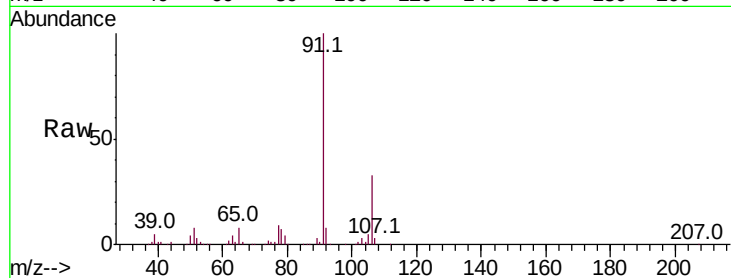
ClientSampled :

Tot Ion: 91 Resp: 171902

Ion Ratio Lower Upper

91 100

106 33.0 23.8 35.6



#64

m/p-Xylenes

Concen: 1.077 ug/l

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029381.D

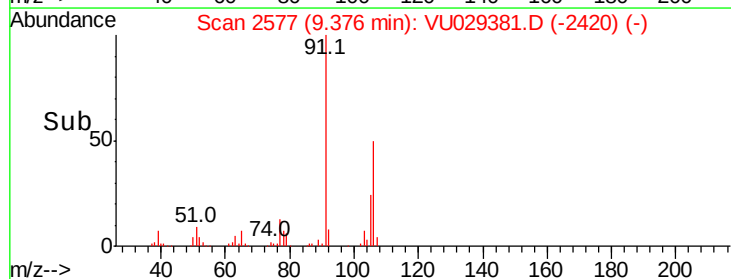
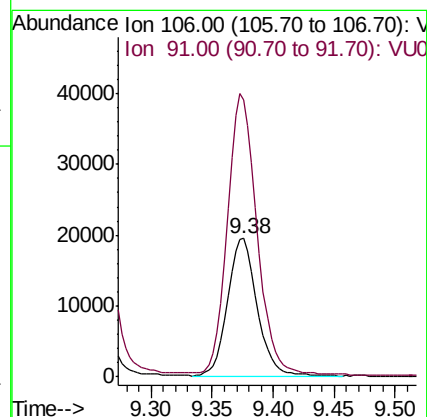
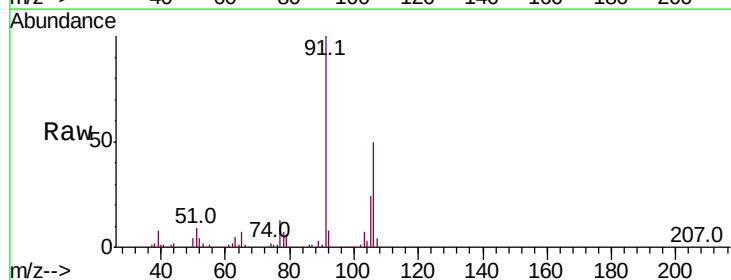
Acq: 08 Feb 2019 16:24

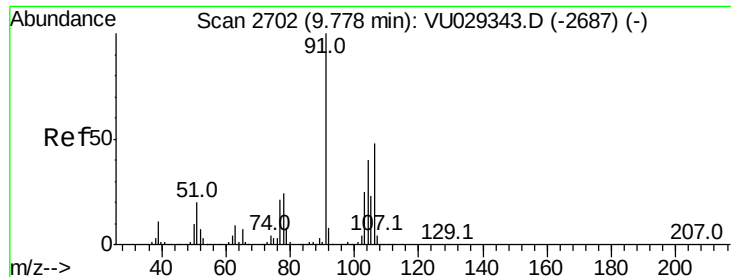
Tgt Ion: 106 Resp: 33199

Ion Ratio Lower Upper

106 100

91 206.0 174.6 261.8





#65

o-Xylene

Concen: 0.649 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

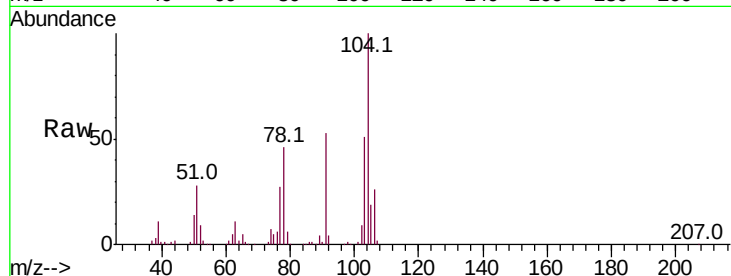
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 19636

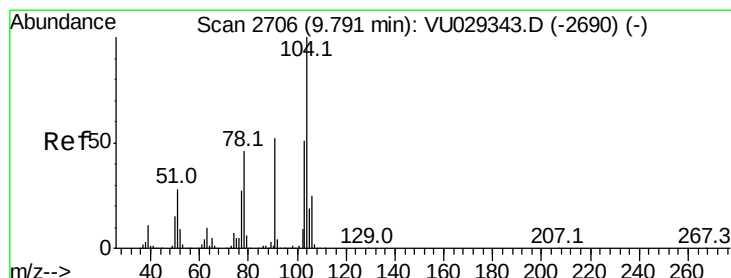
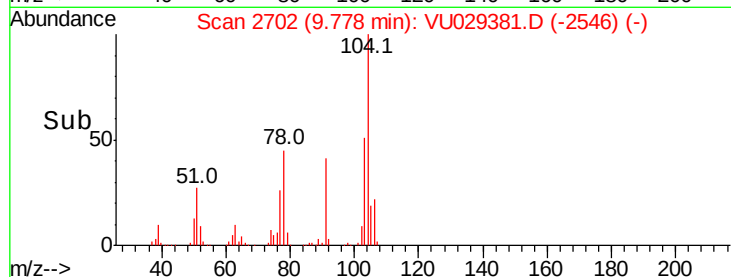
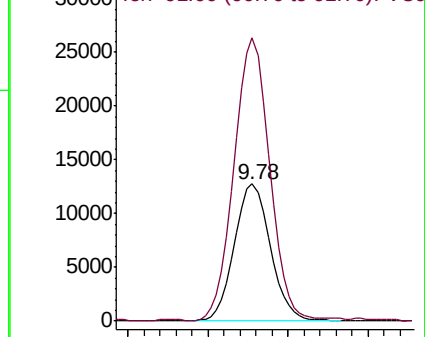
Ion Ratio Lower Upper

106 100

91 205.0 114.5 343.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 3.670 ug/l

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

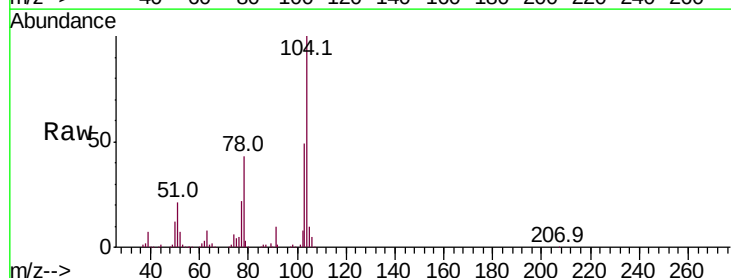
Tgt Ion:104 Resp: 185161

Ion Ratio Lower Upper

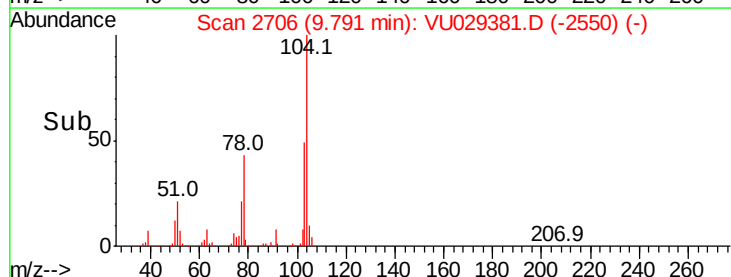
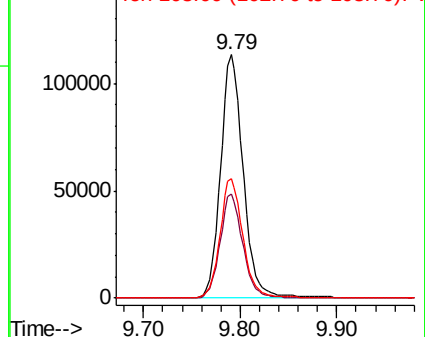
104 100

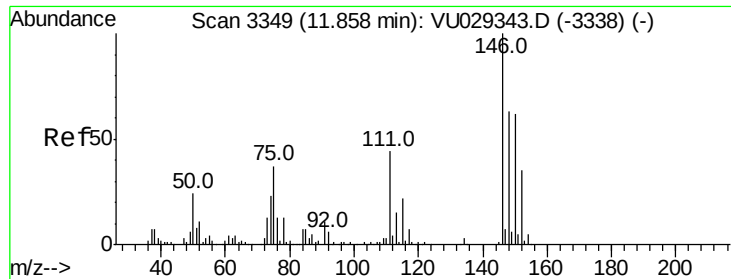
78 42.6 46.5 69.7#

103 49.7 44.7 67.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V

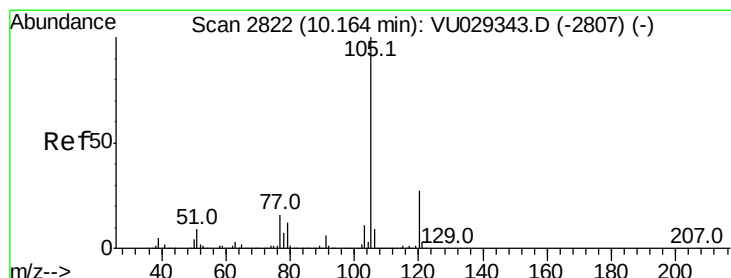
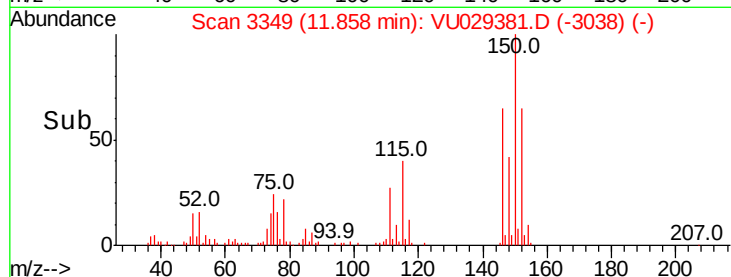
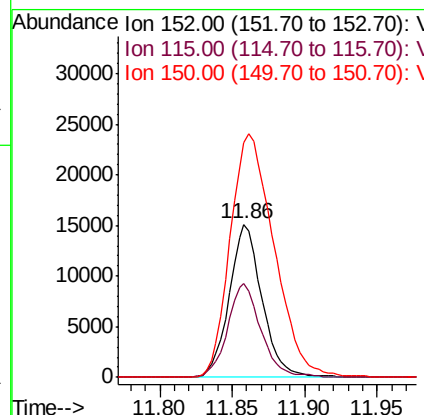
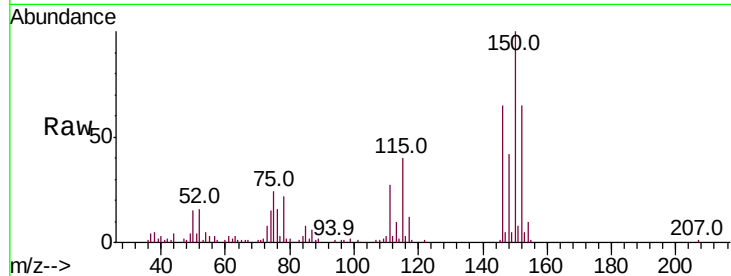




#68
 1,2-Dichlorobenzene-d4
 Concen: N.D. ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

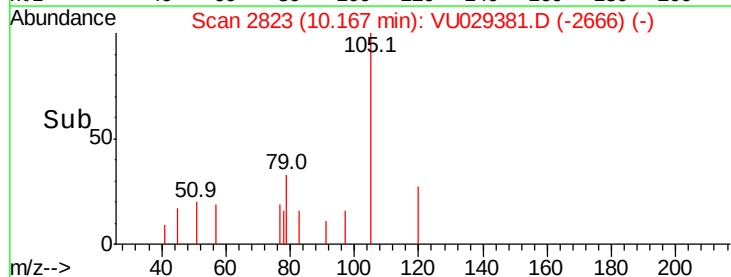
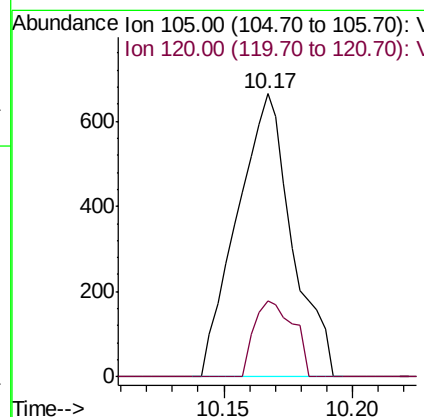
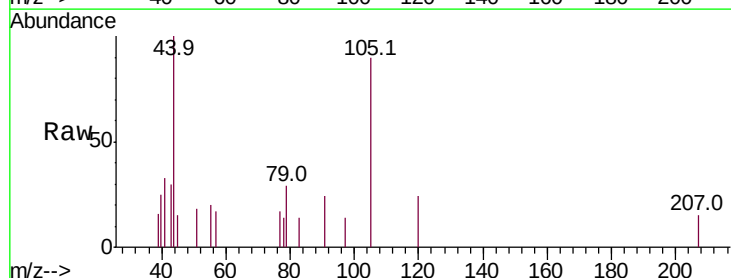
Instrument :
 MSVOA_U
 ClientSampleId :

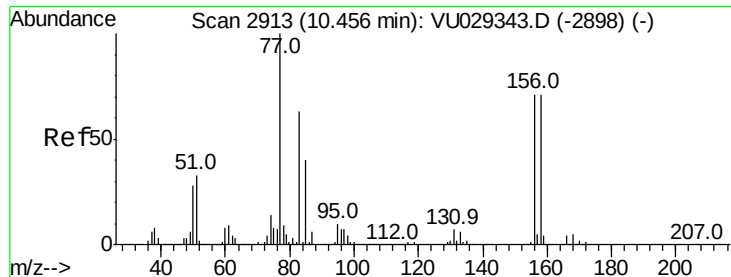
Tot Ion:152 Resp: 23695
 Ion Ratio Lower Upper
 152 100
 115 62.2 0.0 133.4
 150 213.2 0.0 670.8



#69
 Isopropylbenzene
 Concen: 0.012 ug/l
 RT: 10.17 min Scan# 2823
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Tgt Ion:105 Resp: 989
 Ion Ratio Lower Upper
 105 100
 120 19.2 12.6 37.6





#70

1,1,2,2-Tetrachloroethane

Concen: 0.036 ug/l

RT: 10.46 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

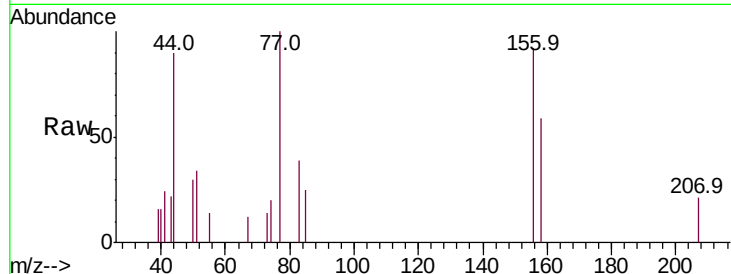
Tot Ion: 83 Resp: 544

Ion Ratio Lower Upper

83 100

131 0.0 8.1 12.1#

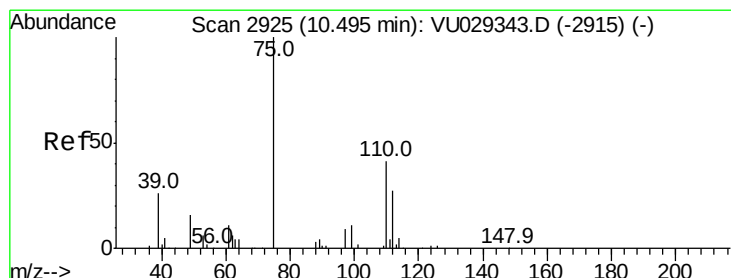
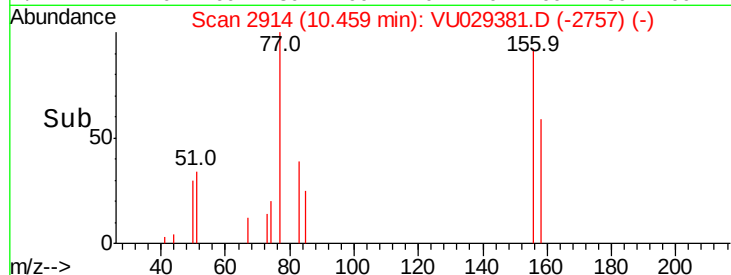
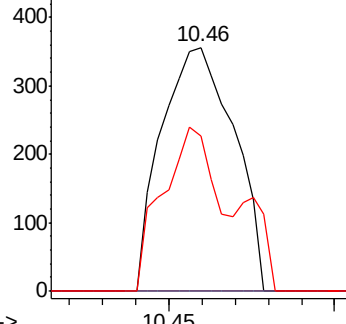
85 51.5 50.3 75.5



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: 1.015 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. -0.19 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Tgt Ion: 75 Resp: 10393

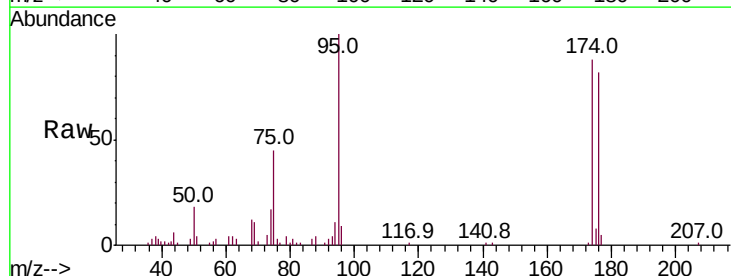
Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#

110 0.0 0.0 63.6

97 0.0 0.0 31.4

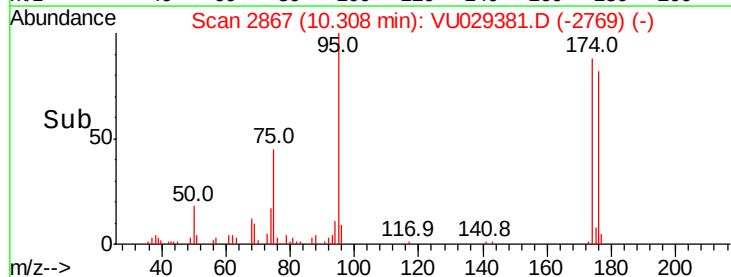
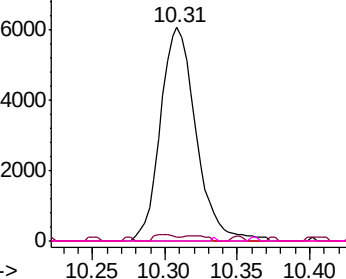


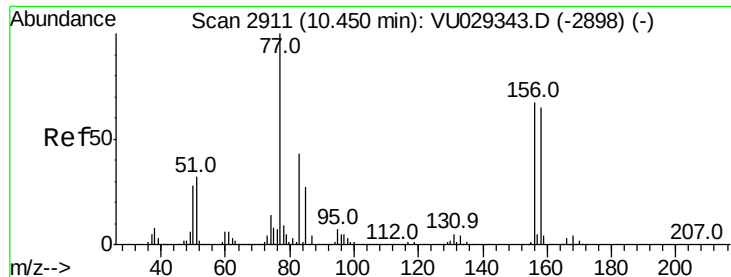
Abundance Ion 75.00 (74.70 to 75.70): VU0

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





#72

Bromobenzene

Concen: 0.071 ug/l

RT: 10.46 min Scan# 2914

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

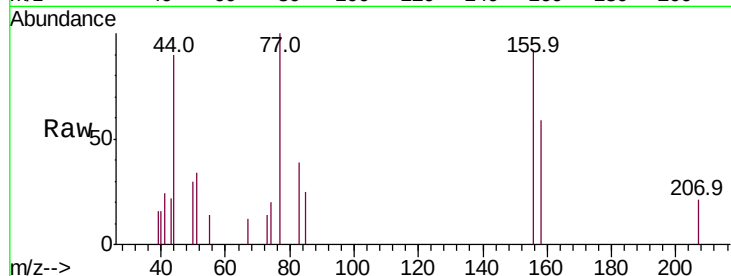
Tot Ion:156 Resp: 1391

Ion Ratio Lower Upper

156 100

77 138.7 0.0 343.8

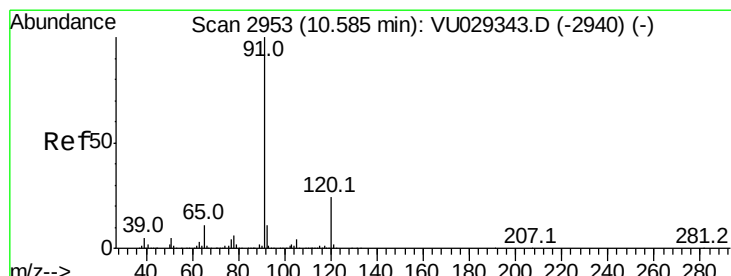
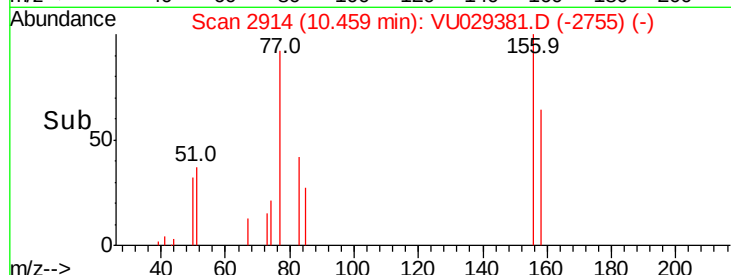
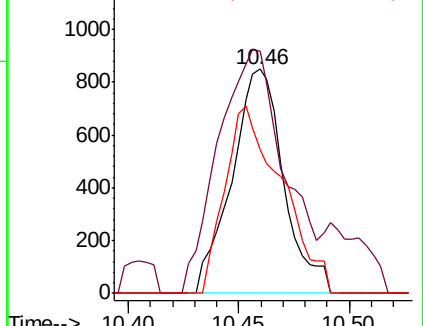
158 91.5 0.0 195.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V



#73

n-propylbenzene

Concen: 0.050 ug/l

RT: 10.59 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU029381.D

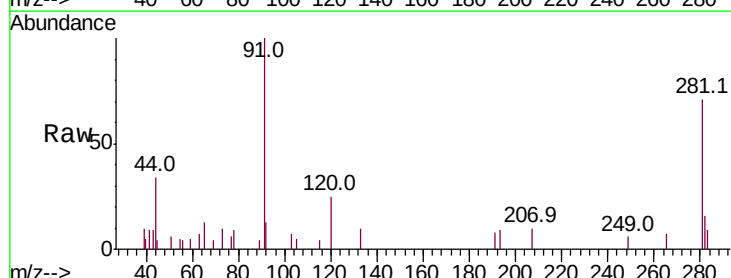
Acq: 08 Feb 2019 16:24

Tgt Ion:120 Resp: 1121

Ion Ratio Lower Upper

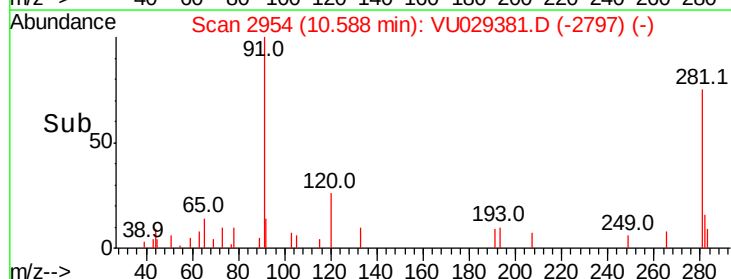
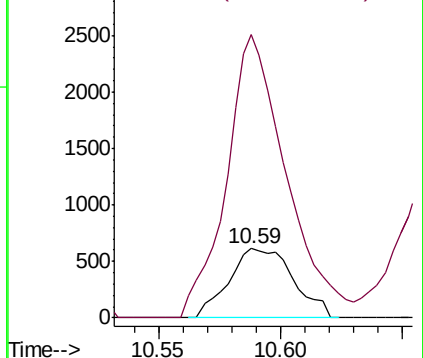
120 100

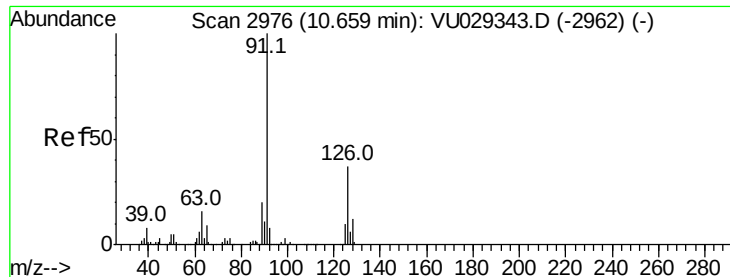
91 380.8 370.0 555.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0





#74

2-Chlorotoluene

Concen: 0.037 ug/l

RT: 10.67 min Scan# 2978

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

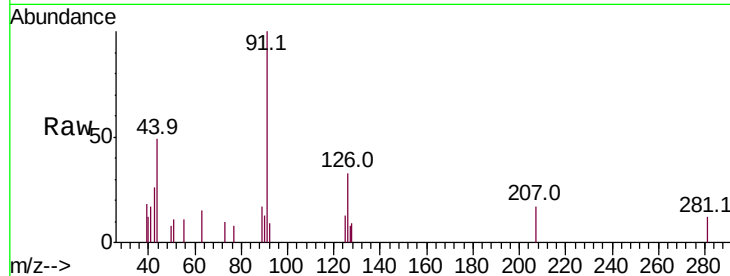
ClientSampleId :

Tot Ion:126 Resp: 713

Ion Ratio Lower Upper

126 100

91 315.0 0.0 643.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0

1500

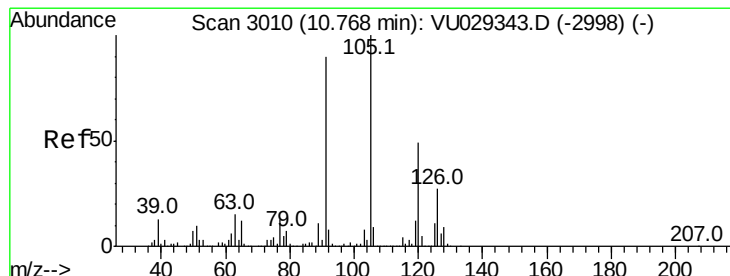
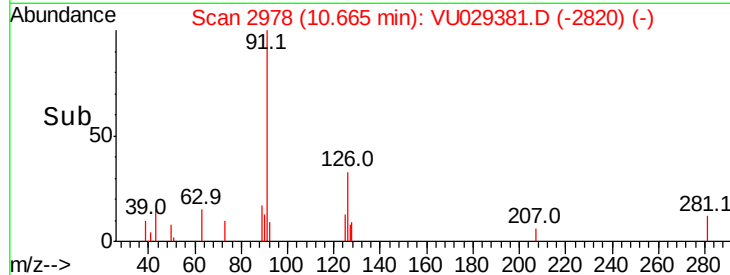
1000

500

0

10.65 10.67 10.70

Time-->



#75

1,3,5-Trimethylbenzene

Concen: 0.034 ug/l

RT: 10.77 min Scan# 3012

Delta R.T. 0.01 min

Lab File: VU029381.D

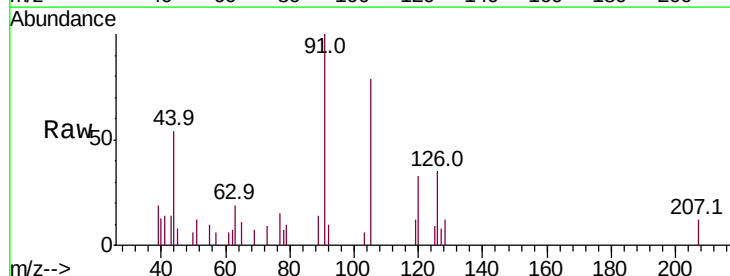
Acq: 08 Feb 2019 16:24

Tgt Ion:105 Resp: 2354

Ion Ratio Lower Upper

105 100

120 46.6 37.3 55.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1500

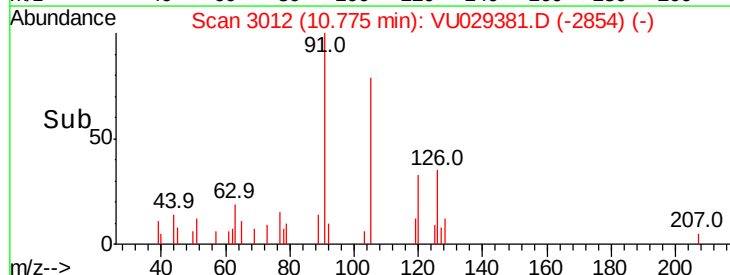
1000

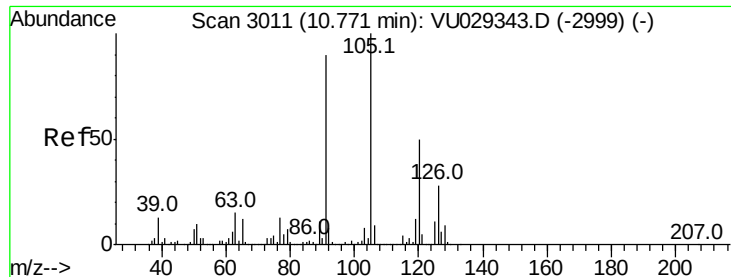
500

0

10.75 10.77 10.80

Time-->





#76

4-Chlorotoluene

Concen: 0.059 ug/l

RT: 10.78 min Scan# 3014

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

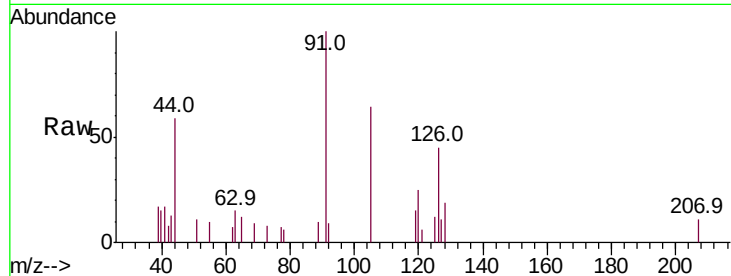
ClientSampleId :

Tot Ion:126 Resp: 1168

Ion Ratio Lower Upper

126 100

91 241.2 0.0 727.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0

2000

1500

1000

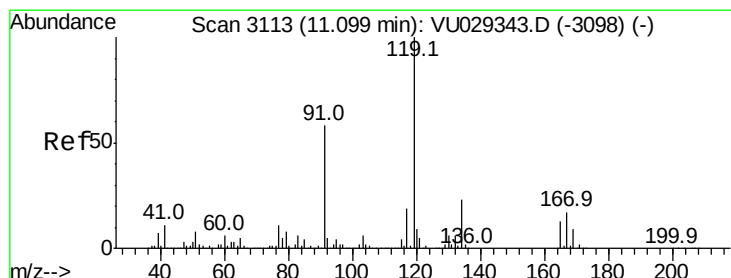
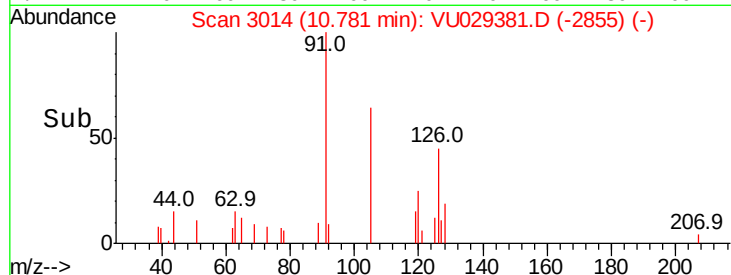
500

0

10.75

10.80

Time-->



#77

tert-Butylbenzene

Concen: 0.032 ug/l

RT: 11.10 min Scan# 3112

Delta R.T. -0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

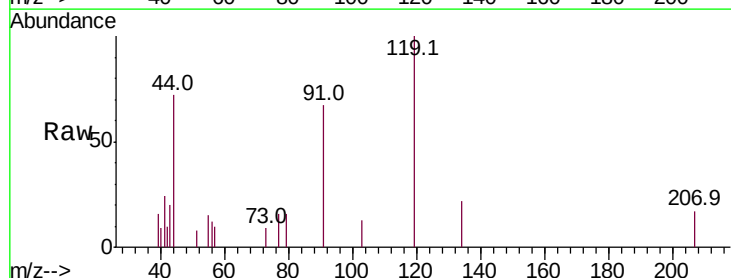
Tgt Ion:119 Resp: 2182

Ion Ratio Lower Upper

119 100

91 67.8 32.2 96.6

134 19.7 17.6 26.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V

1500

1000

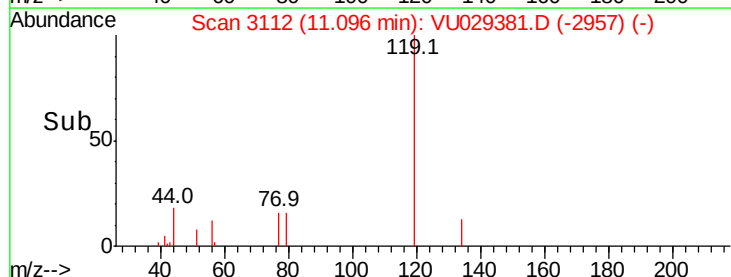
500

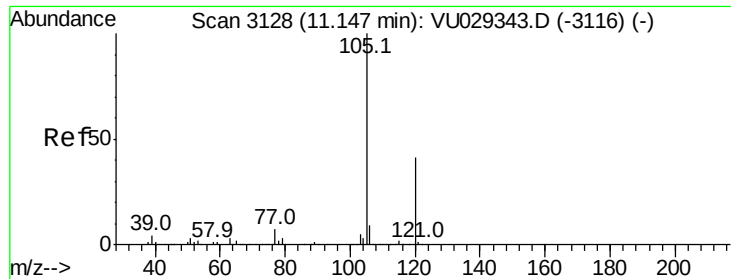
0

11.05

11.10

Time-->





#78

1,2,4-Trimethylbenzene

Concen: 0.043 ug/l

RT: 11.15 min Scan# 3129

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

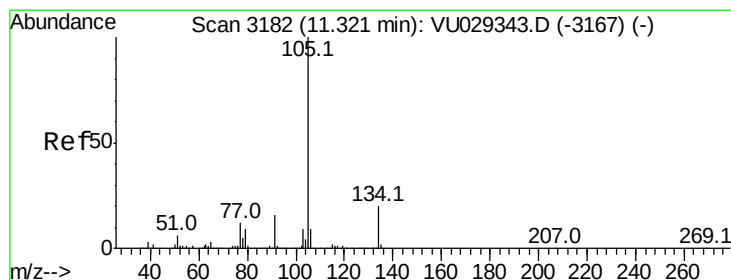
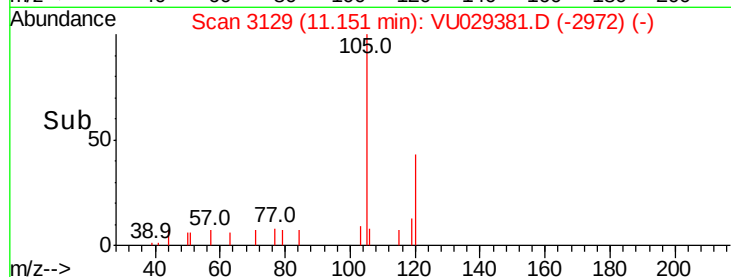
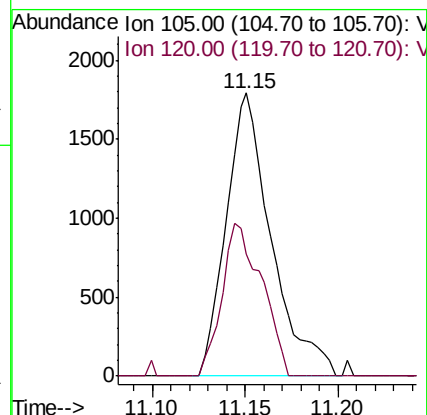
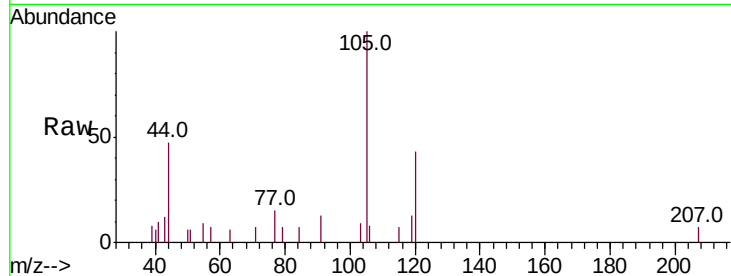
ClientSampleId :

Tot Ion:105 Resp: 3027

Ion Ratio Lower Upper

105 100

120 47.5 21.4 64.3



#79

sec-Butylbenzene

Concen: 0.032 ug/l

RT: 11.32 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VU029381.D

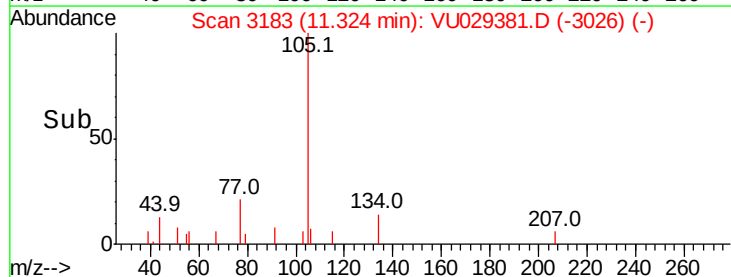
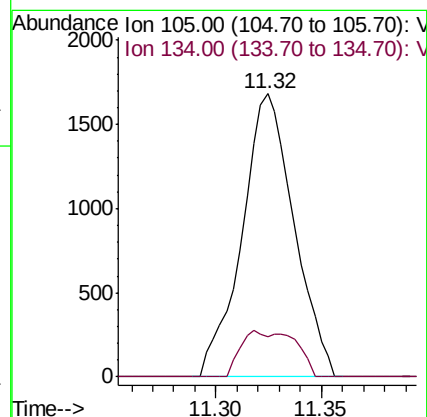
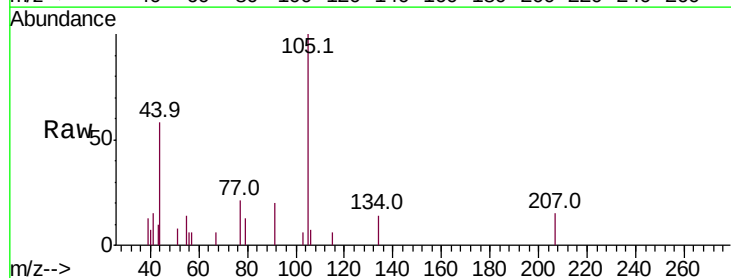
Acq: 08 Feb 2019 16:24

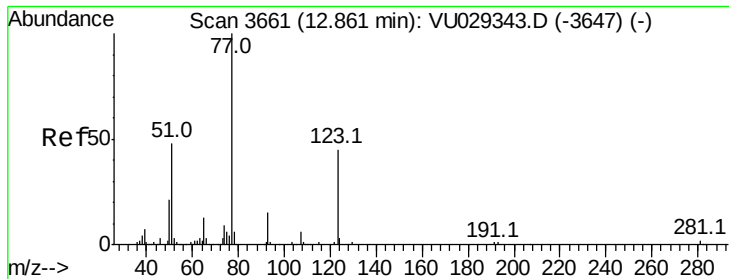
Tgt Ion:105 Resp: 2891

Ion Ratio Lower Upper

105 100

134 8.6 15.0 22.6#





#80

Nitrobenzene

Concen: 0.063 ug/l

RT: 12.80 min Scan# 3643

Delta R.T. -0.06 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

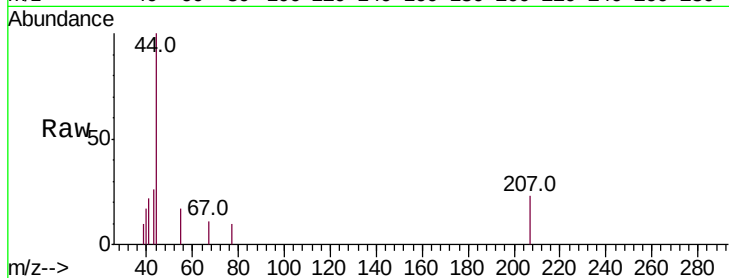
Tot Ion: 77 Resp: 42

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): VU029381.D (-3647) (-)

Ion 123.00 (122.70 to 123.70): VU029381.D (-3647) (-)

Ion 65.00 (64.70 to 65.70): VU029381.D (-3647) (-)

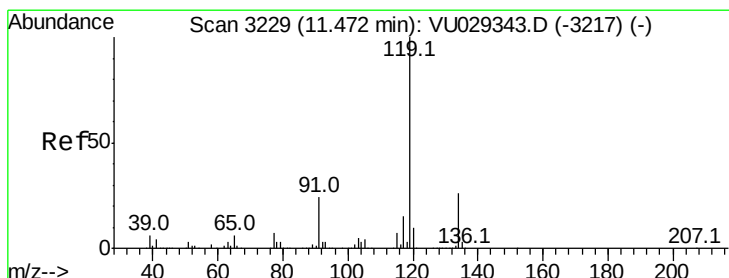
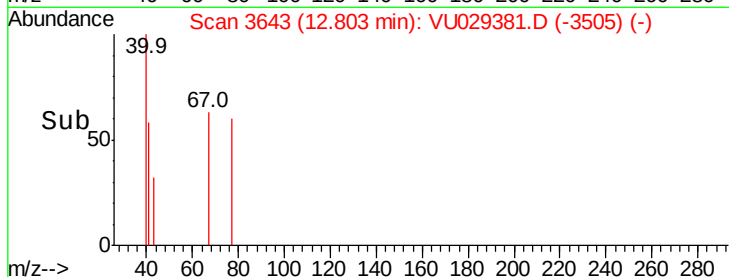
12.80

100

50

0

Time--> 12.79 12.80 12.81



#81

p-Isopropyltoluene

Concen: 0.046 ug/l

RT: 11.47 min Scan# 3229

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

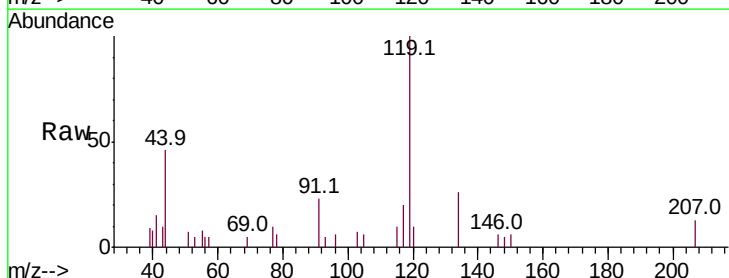
Tgt Ion: 119 Resp: 3522

Ion Ratio Lower Upper

119 100

134 25.3 19.8 29.6

91 28.1 21.5 32.3



Abundance Ion 119.00 (118.70 to 119.70): VU029381.D (-3217) (-)

Ion 134.00 (133.70 to 134.70): VU029381.D (-3217) (-)

Ion 91.00 (90.70 to 91.70): VU029381.D (-3217) (-)

11.47

3000

2500

2000

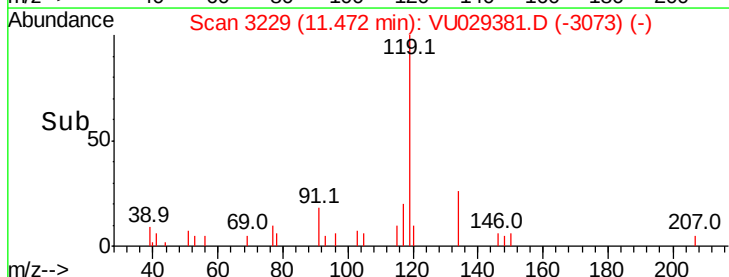
1500

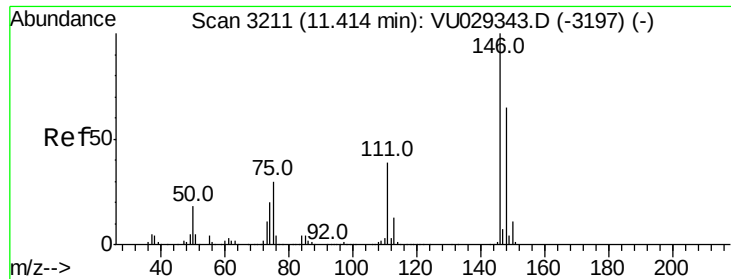
1000

500

0

Time--> 11.45 11.50

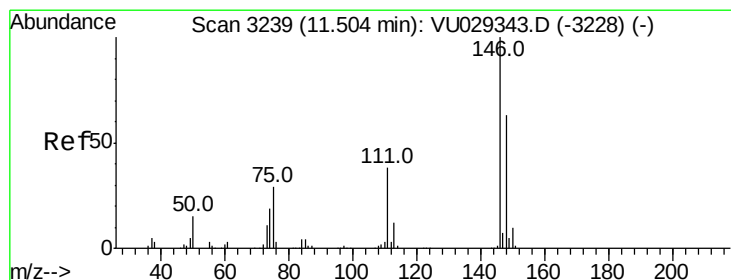
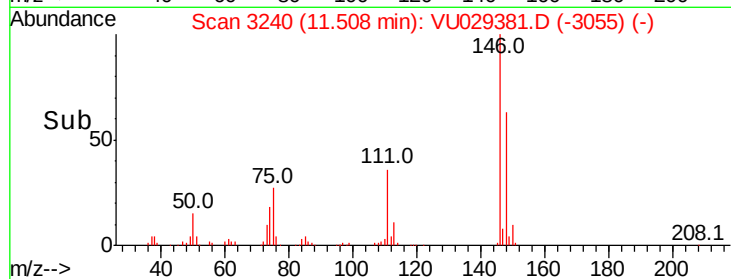
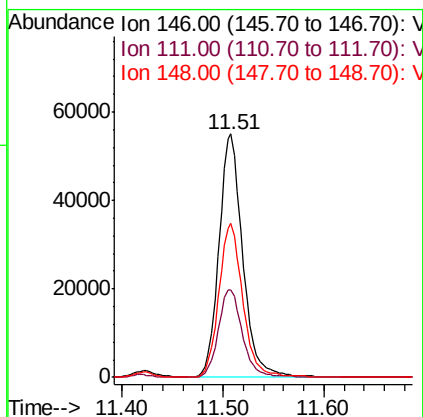
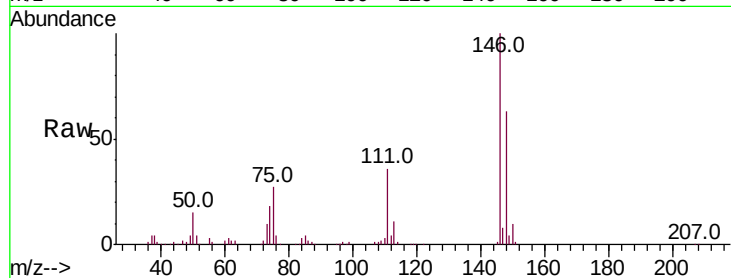




#82
 1,3-Dichlorobenzene
 Concen: 2.352 ug/l
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.09 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

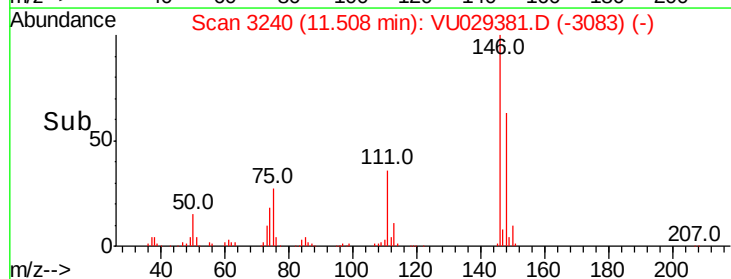
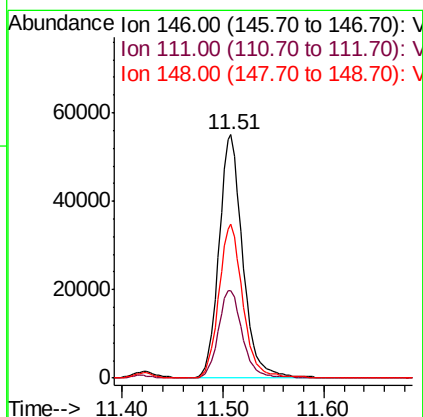
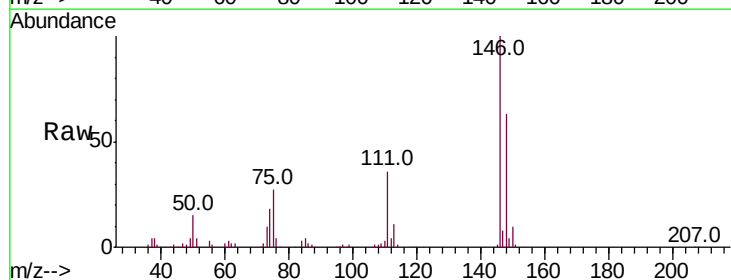
Instrument :
 MSVOA_U
 ClientSampleId :

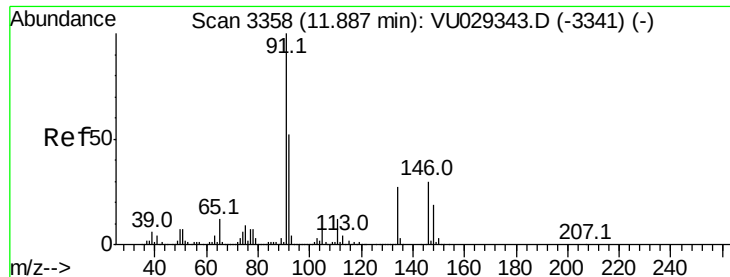
Tot Ion:146 Resp: 90454
 Ion Ratio Lower Upper
 146 100
 111 36.5 34.1 51.1
 148 64.2 52.3 78.5



#83
 1,4-Dichlorobenzene
 Concen: 2.362 ug/l
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Tgt Ion:146 Resp: 90454
 Ion Ratio Lower Upper
 146 100
 111 36.5 32.9 49.3
 148 64.2 51.8 77.6





#84

n-Butylbenzene

Concen: 0.100 ug/l

RT: 11.89 min Scan# 3359

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampled :

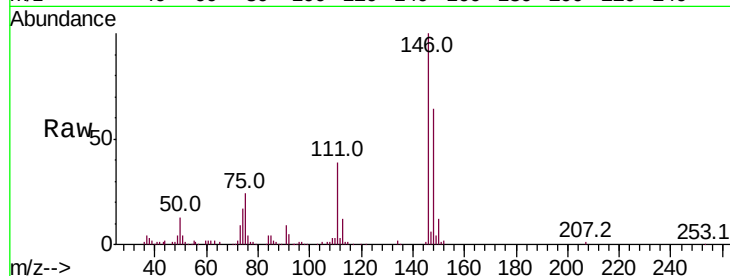
Tot Ion: 91 Resp: 7037

Ion Ratio Lower Upper

91 100

92 47.5 41.0 61.6

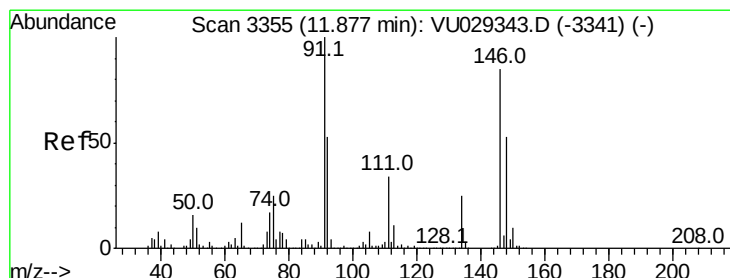
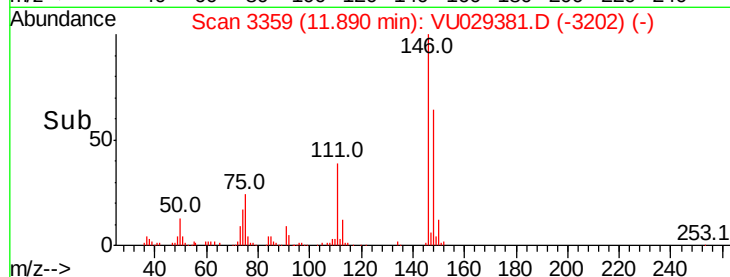
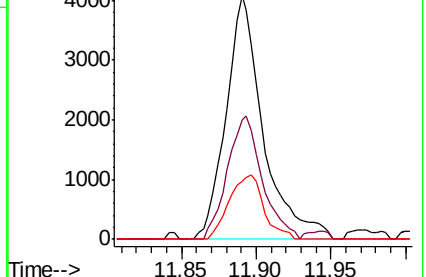
134 24.6 19.1 28.7



Abundance Ion 91.00 (90.70 to 91.70): VU029343.D (-3341) (-)

Ion 92.00 (91.70 to 92.70): VU029343.D (-3341) (-)

Ion 134.00 (133.70 to 134.70): VU029343.D (-3341) (-)



#85

1,2-Dichlorobenzene

Concen: 3.929 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

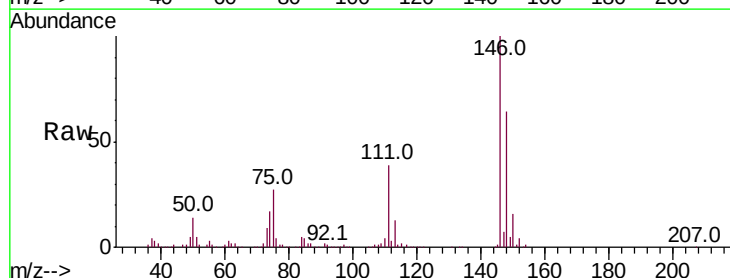
Tgt Ion: 146 Resp: 142852

Ion Ratio Lower Upper

146 100

111 39.6 21.9 65.8

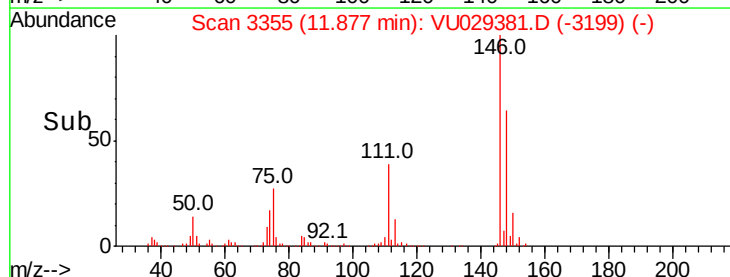
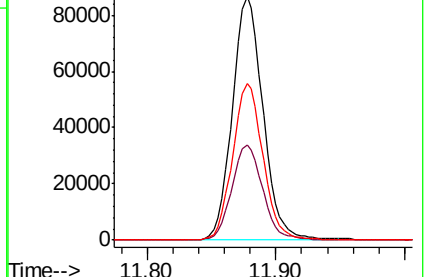
148 63.9 31.8 95.3

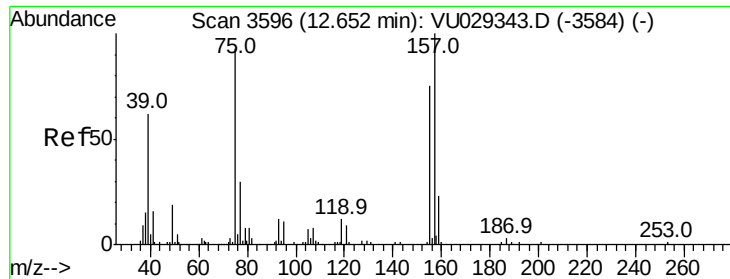


Abundance Ion 146.00 (145.70 to 146.70): VU029343.D (-3341) (-)

Ion 111.00 (110.70 to 111.70): VU029343.D (-3341) (-)

Ion 148.00 (147.70 to 148.70): VU029343.D (-3341) (-)





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.224 ug/l

RT: 12.48 min Scan# 3543

Delta R.T. -0.17 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

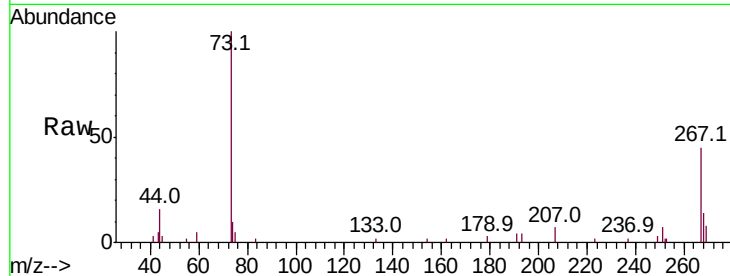
Tot Ion: 75 Resp: 624

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

157 0.0 69.2 103.8#

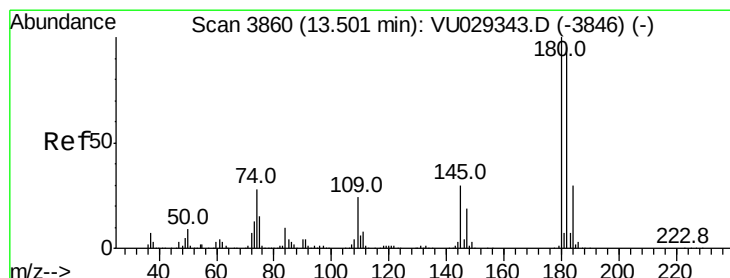
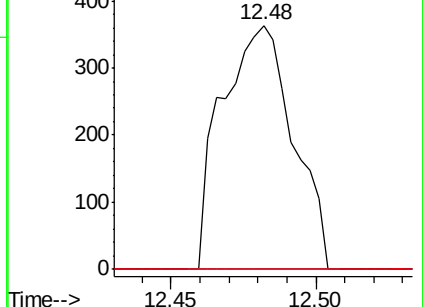
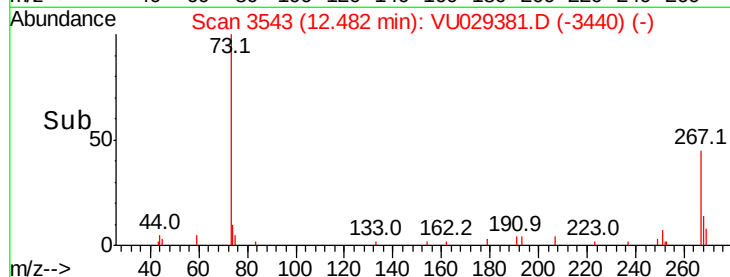


Abundance Ion 75.00 (74.70 to 75.70): VU029381.D (-3440) (-)

Ion 155.00 (154.70 to 155.70): VU029381.D (-3440) (-)

Ion 157.00 (156.70 to 157.70): VU029381.D (-3440) (-)

Time-->



#87

1,2,4-Trichlorobenzene

Concen: 1.963 ug/l

RT: 13.50 min Scan# 3861

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

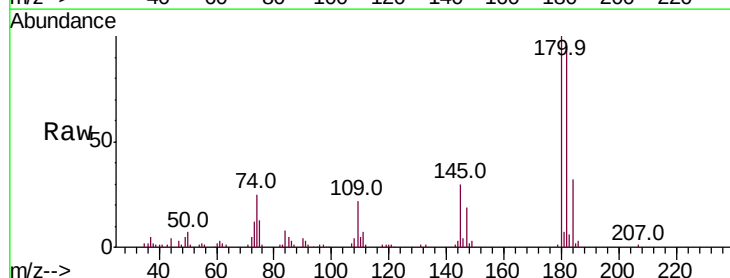
Tgt Ion:180 Resp: 50128

Ion Ratio Lower Upper

180 100

182 97.6 76.6 114.8

145 28.9 24.6 36.8

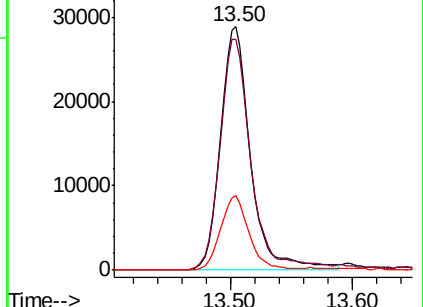
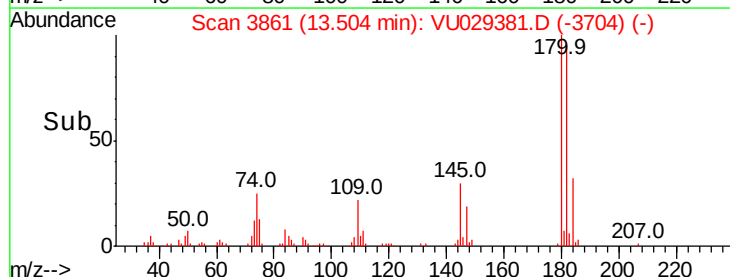


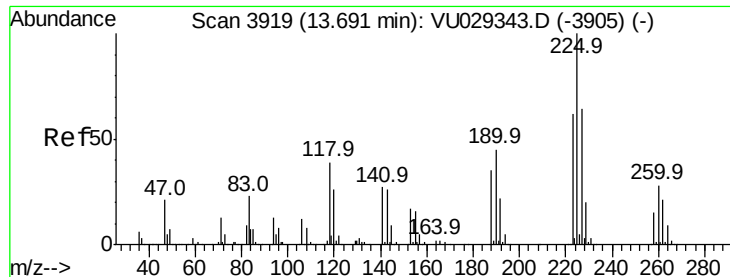
Abundance Ion 179.70 (179.40 to 180.40): VU029381.D (-3704) (-)

Ion 181.80 (181.50 to 182.50): VU029381.D (-3704) (-)

Ion 144.80 (144.50 to 145.50): VU029381.D (-3704) (-)

Time-->





#88

Hexachlorobutadiene

Concen: 0.199 ug/l

RT: 13.69 min Scan# 3919

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

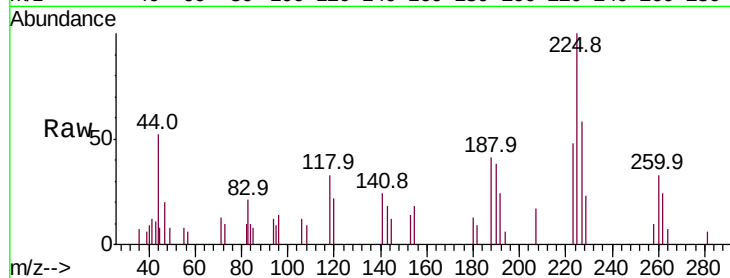
Tot Ion:225 Resp: 2948

Ion Ratio Lower Upper

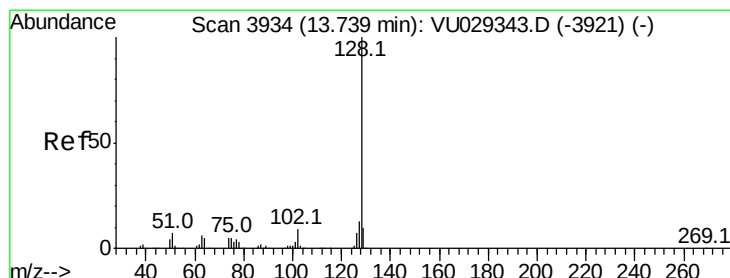
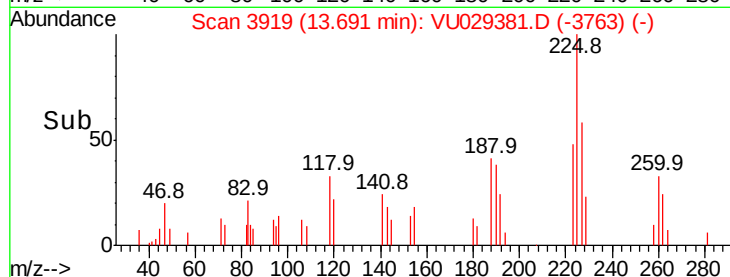
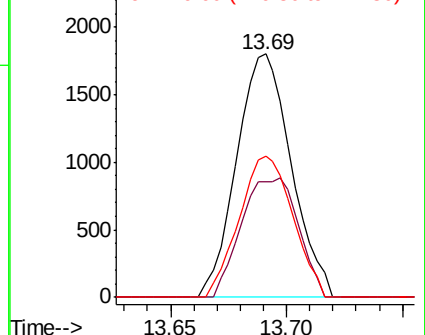
225 100

223 51.1 49.5 74.3

227 56.9 50.4 75.6



Abundance Ion 224.60 (224.30 to 225.30): V
Ion 222.60 (222.30 to 223.30): V
Ion 226.60 (226.30 to 227.30): V



#89

Naphthalene

Concen: 0.497 ug/l

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

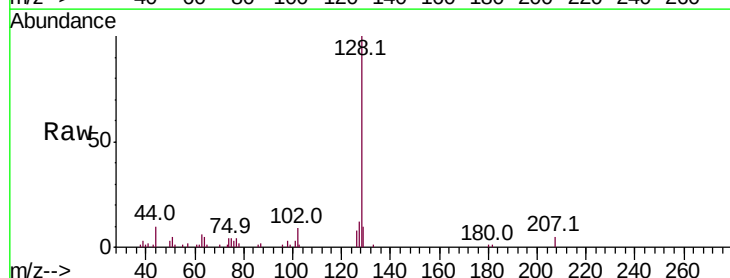
Tgt Ion:128 Resp: 21514

Ion Ratio Lower Upper

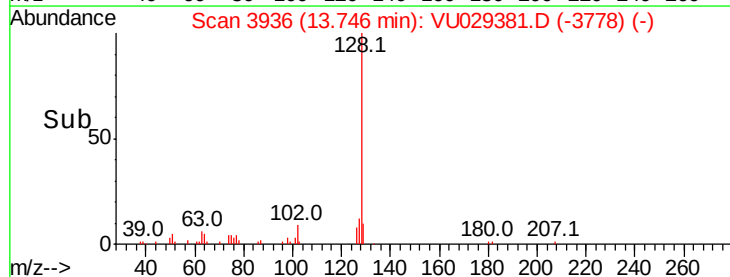
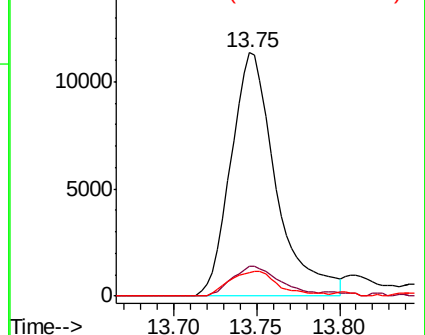
128 100

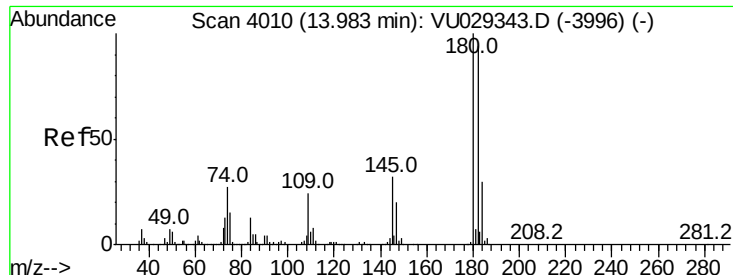
127 13.1 10.7 16.1

129 11.0 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





#90

1,2,3-Trichlorobenzene

Concen: 0.885 ug/l

RT: 13.99 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

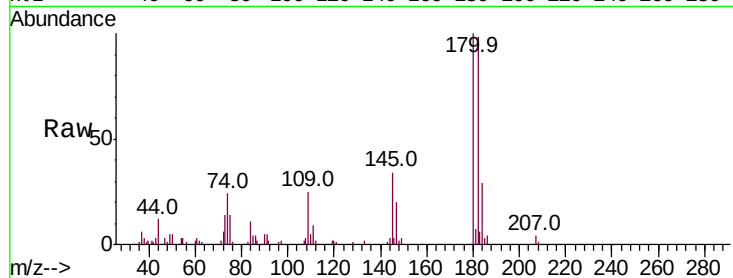
Tot Ion:180 Resp: 20646

Ion Ratio Lower Upper

180 100

182 91.3 78.0 117.0

145 29.7 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

