

Data File : VU025718.D
Acq On : 30 Jul 2018 13:22
Operator : MD/SY
Sample : J4086-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1513

Quant Time: Aug 07 05:59:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 00:49:55 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	171519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	259850	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	248137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	153249	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	130405	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
35) Dibromofluoromethane	4.89	113	108860	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
50) Toluene-d8	7.57	98	381785	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
62) 4-Bromofluorobenzene	10.31	95	142602	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	

Target Compounds

						Qvalue
3) Chloromethane	1.33	50	80089	32.323	ug/l	97
4) Vinyl Chloride	1.41	62	74225	31.832	ug/l	100
5) Bromomethane	1.63	94	82528	72.464	ug/l	97
6) Chloroethane	1.70	64	117122	85.901	ug/l	99
7) Trichlorofluoromethane	1.89	101	211368	62.695	ug/l	100
10) Methyl Iodide	2.41	142	16666	16.179	ug/l	100
11) Tert butyl alcohol	2.84	59	1092	1.866	ug/l #	73
13) Acrolein	2.19	56	79	Below Cal	#	28
15) Acrylonitrile	3.00	53	1671	1.430	ug/l #	19
16) Acetone	2.33	43	1421	1.091	ug/l	100
18) Methyl Acetate	2.62	43	2840	0.906	ug/l	97
19) Methyl tert-butyl Ether	3.00	73	164079	24.586	ug/l	99
20) Methylene Chloride	2.70	84	891	0.386	ug/l #	82
21) trans-1,2-Dichloroethene	2.99	96	93170	43.765	ug/l	99
24) 1,1-Dichloroethane	3.45	63	270240	69.029	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	271873	113.272	ug/l	88
28) Bromochloromethane	4.67	49	11116	6.351	ug/l #	9
29) Tetrahydrofuran	4.65	42	420	0.395	ug/l #	44
30) Chloroform	4.68	83	140978	34.116	ug/l	96
31) Cyclohexane	4.98	56	3395	Below Cal	#	26
32) 1,1,1-Trichloroethane	4.92	97	61888	16.635	ug/l	99
36) 1,1-Dichloropropene	4.99	75	12834	4.226	ug/l #	46
38) Carbon Tetrachloride	4.99	117	15468	4.497	ug/l #	16
39) Methylcyclohexane	6.44	83	1604	0.461	ug/l #	37
42) 1,2-Dichloroethane	5.41	62	423521	123.909	ug/l	99
44) Trichloroethene	6.19	130	69924	28.286	ug/l	97
45) 1,2-Dichloropropane	6.44	63	198281	85.649	ug/l	97
46) Dibromomethane	6.76	93	10096	6.019	ug/l #	2
47) Bromodichloromethane	6.76	83	299482	93.595	ug/l	99
48) Methyl methacrylate	6.44	41	110124	43.182	ug/l #	37
49) 1,4-Dioxane	6.76	88	288	4.641	ug/l #	22
51) 4-Methyl-2-Pentanone	7.46	43	393899	120.915	ug/l	100
52) Toluene	7.64	92	225877	40.959	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	221893	61.762	ug/l	97

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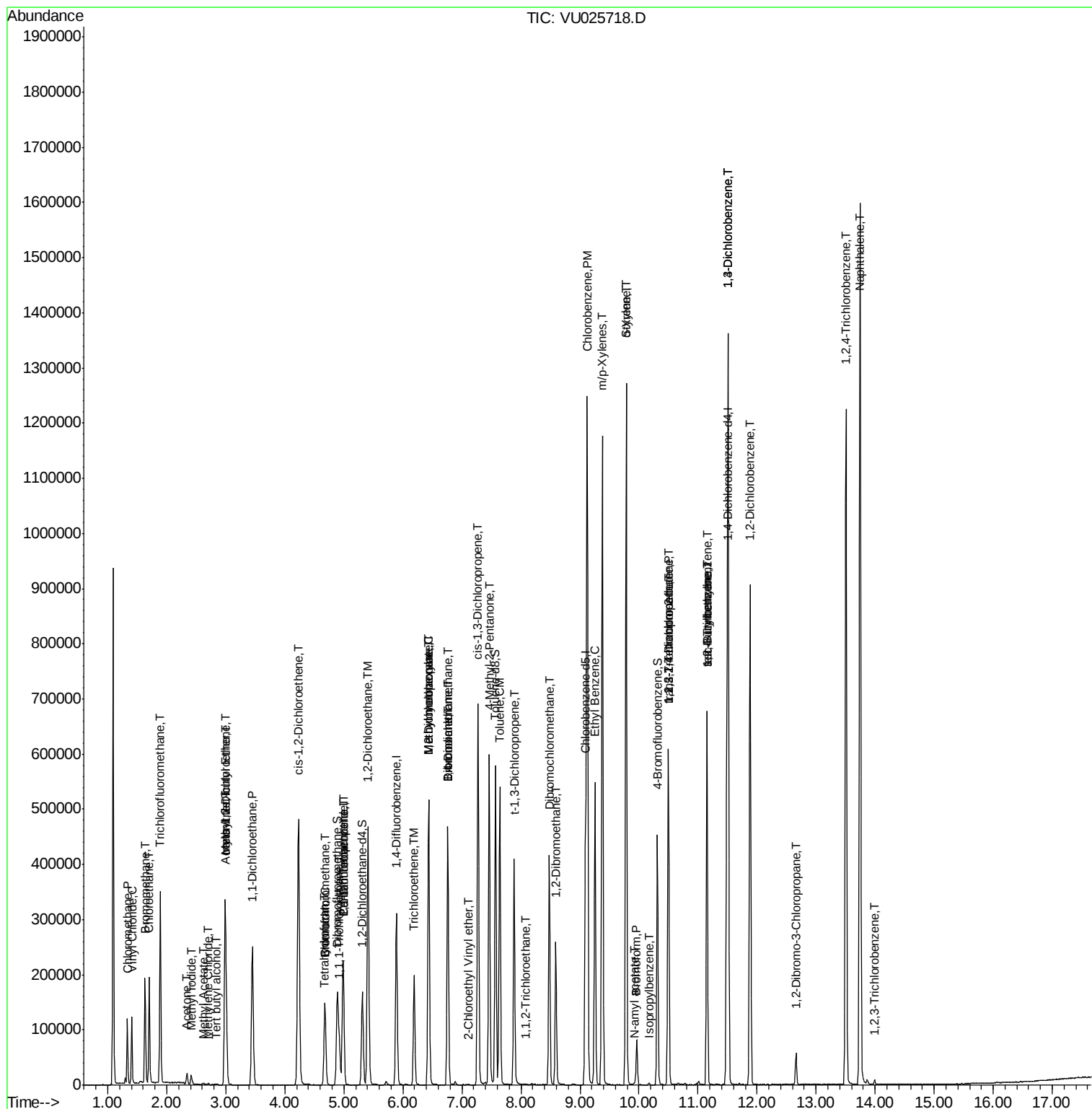
54) cis-1,3-Dichloropropene	7.27	75	389685	105.590	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	486	0.212	ug/l #	82
58) 2-Chloroethyl Vinyl ether	7.11	63	571	7.451	ug/l #	47
60) Dibromochloromethane	8.48	129	212355	78.575	ug/l	99
61) 1,2-Dibromoethane	8.59	107	166701	65.405	ug/l	99
65) Chlorobenzene	9.12	112	660213	103.198	ug/l	100
67) Ethyl Benzene	9.25	91	377223	35.597	ug/l	100
68) m/p-Xylenes	9.38	106	332965	81.840	ug/l	99
69) o-Xylene	9.78	106	336548	84.640	ug/l	98
70) Styrene	9.78	104	16492	2.568	ug/l #	1
71) Bromoform	9.96	173	37739	18.806	ug/l #	99
73) Isopropylbenzene	10.17	105	2443	0.234	ug/l	97
74) N-amyl acetate	9.92	43	2656	0.622	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	10.50	83	6875	1.901	ug/l #	94
76) 1,2,3-Trichloropropane	10.50	75	245983	72.850	ug/l	86
81) trans-1,4-Dichloro-2-buten	10.50	75	245983	182.671	ug/l #	100
83) tert-Butylbenzene	11.15	119	43936	4.978	ug/l #	59
84) 1,2,4-Trimethylbenzene	11.15	105	367424	40.817	ug/l	98
85) sec-Butylbenzene	11.15	105	367424	34.098	ug/l #	56
87) 1,3-Dichlorobenzene	11.51	146	532173	99.377	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	532173	95.334	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	371090	70.697	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	14714	17.159	ug/l	100
93) 1,2,4-Trichlorobenzene	13.51	180	379357	107.082	ug/l	99
95) Naphthalene	13.74	128	1282457	111.132	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	2866	0.811	ug/l	97

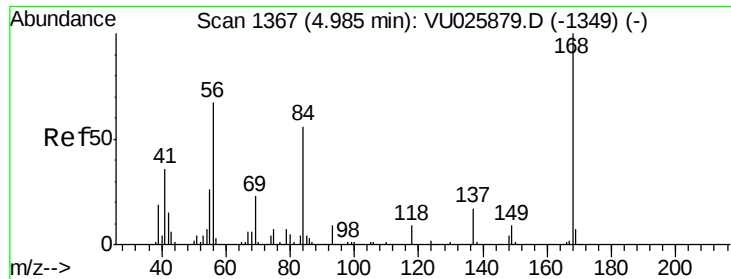
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

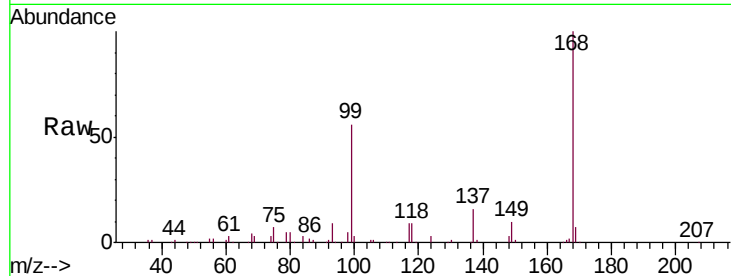
Instrument :
MSVOA_U
ClientSampled :
1513

Tgt Ion:168 Resp: 171519

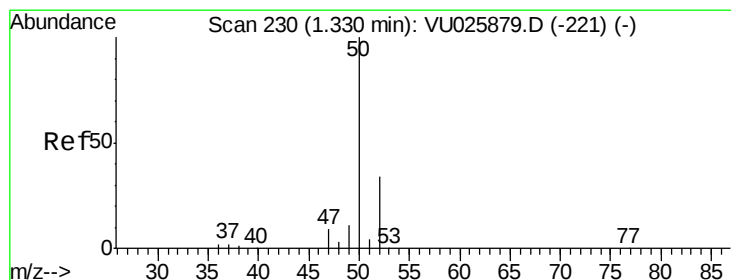
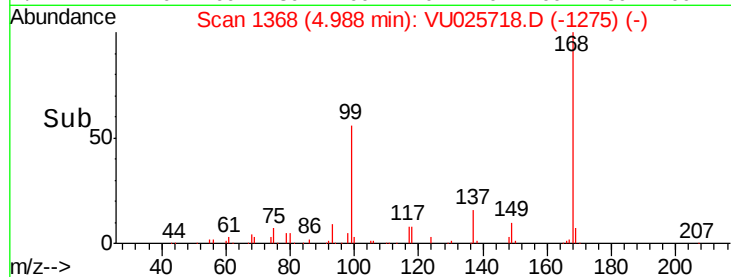
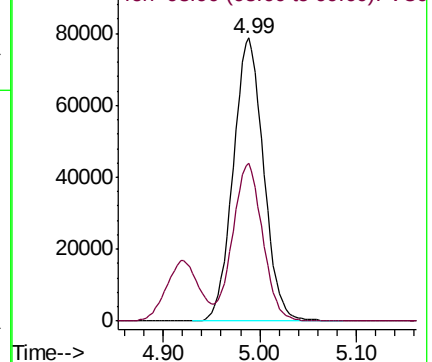
Ion Ratio Lower Upper

168 100

99 55.7 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025718.D (-1349) (-)



#3

Chloromethane

Concen: 32.323 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025718.D

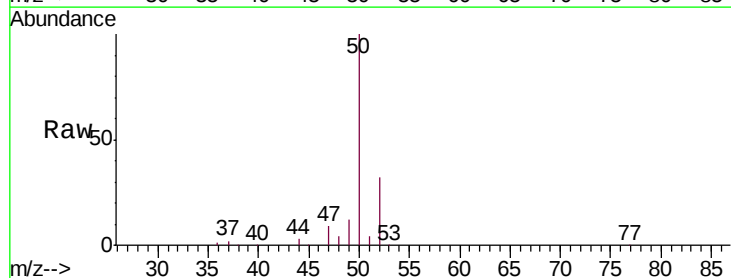
Acq: 30 Jul 2018 13:22

Tgt Ion: 50 Resp: 80089

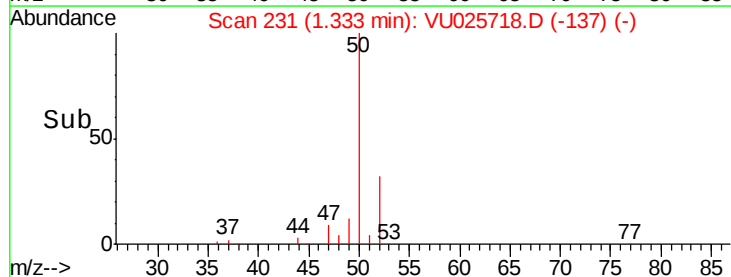
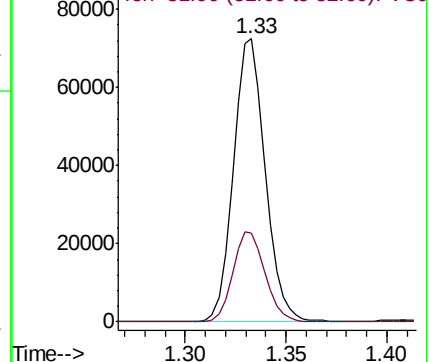
Ion Ratio Lower Upper

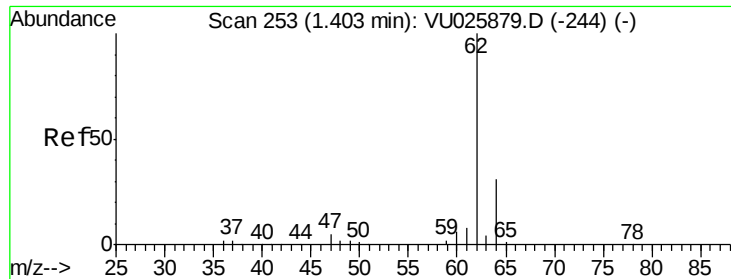
50 100

52 31.6 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025718.D (-137) (-)





#4

Vinyl Chloride

Concen: 31.832 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

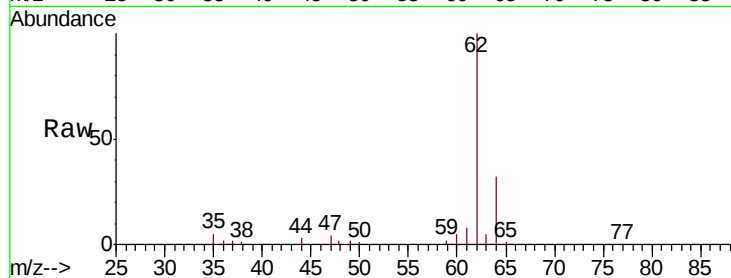
1513

Tgt Ion: 62 Resp: 74225

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.41

80000

60000

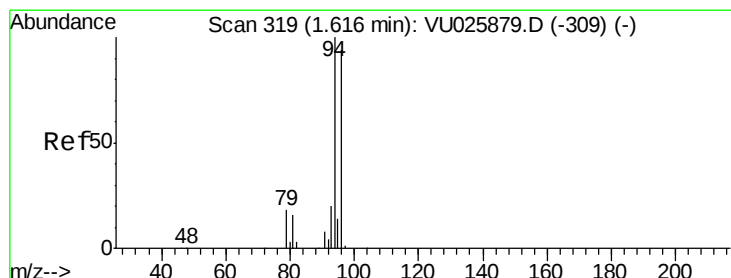
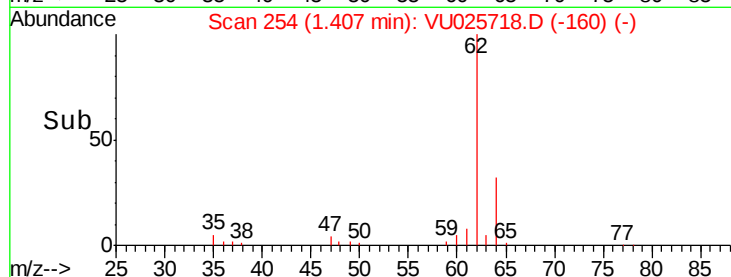
40000

20000

0

Time-->

1.35 1.40 1.45



#5

Bromomethane

Concen: 72.464 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU025718.D

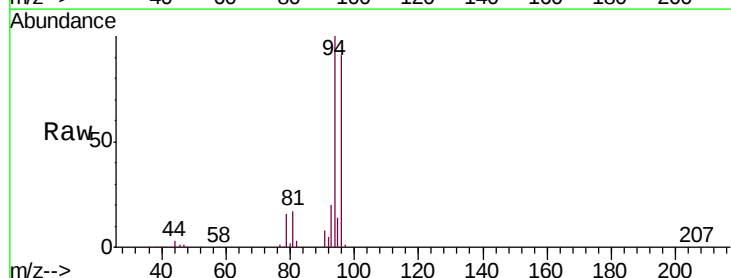
Acq: 30 Jul 2018 13:22

Tgt Ion: 94 Resp: 82528

Ion Ratio Lower Upper

94 100

96 91.0 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

80000

60000

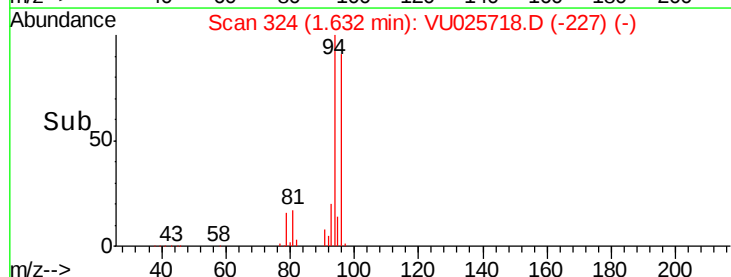
40000

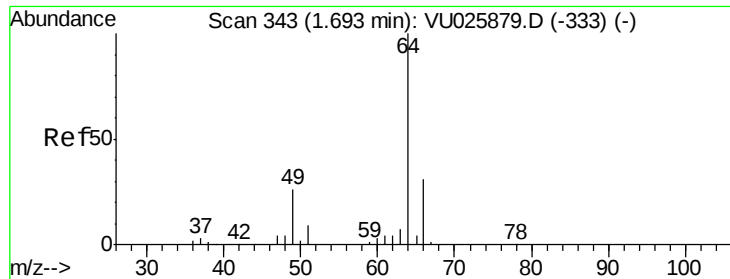
20000

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 85.901 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

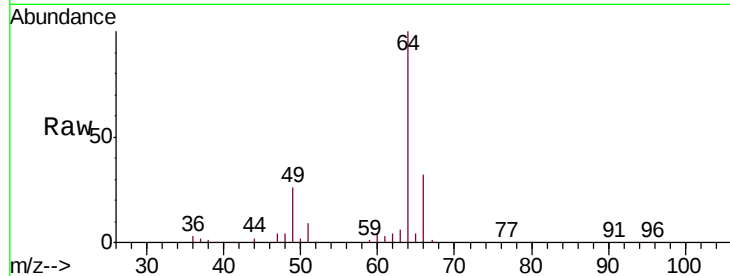
1513

Tgt Ion: 64 Resp: 117122

Ion Ratio Lower Upper

64 100

66 31.8 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.70

100000

80000

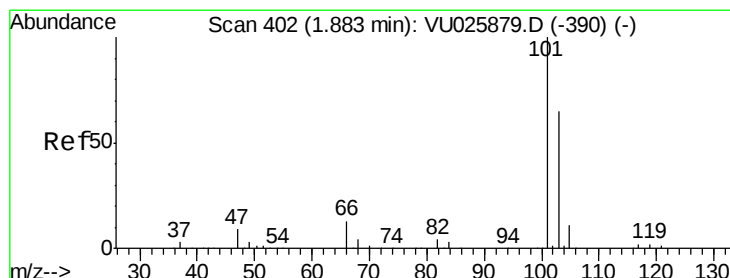
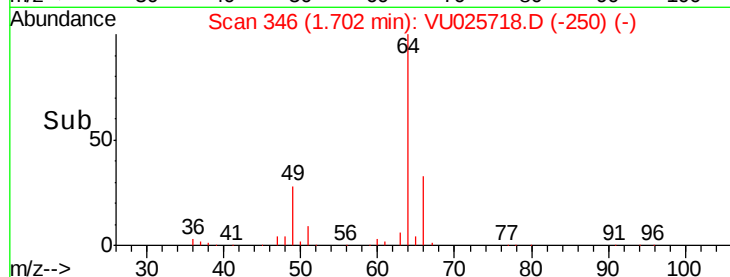
60000

40000

20000

0

Time-->



#7

Trichlorofluoromethane

Concen: 62.695 ug/l

RT: 1.89 min Scan# 404

Delta R.T. 0.01 min

Lab File: VU025718.D

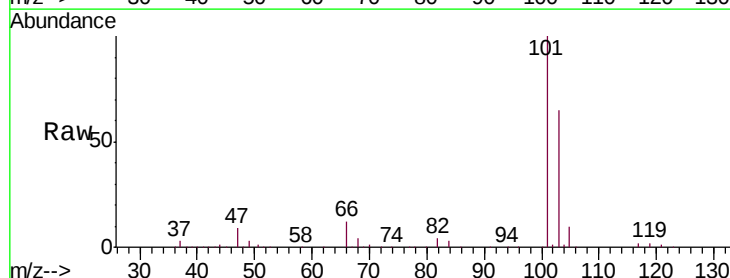
Acq: 30 Jul 2018 13:22

Tgt Ion: 101 Resp: 211368

Ion Ratio Lower Upper

101 100

103 65.0 52.2 78.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.89

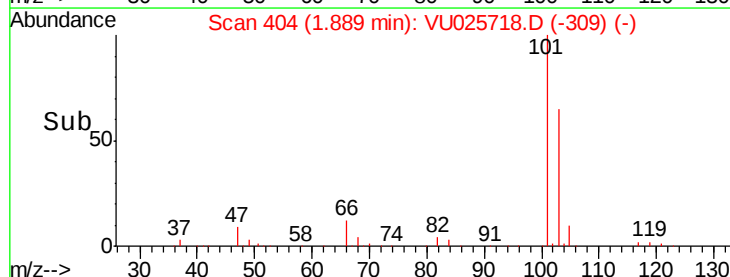
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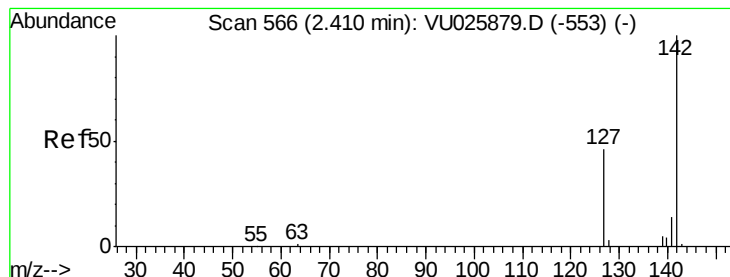
100000

50000

0

Time-->





#10

Methyl Iodide

Concen: 16.179 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :
1513

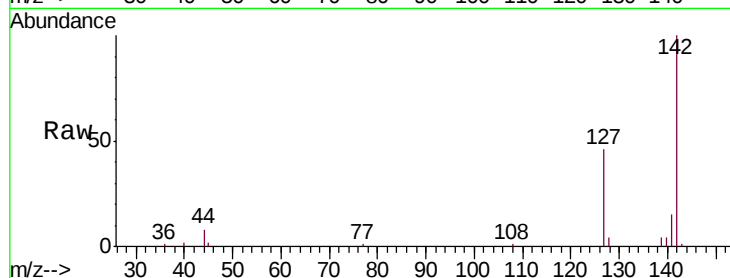
Tgt Ion:142 Resp: 16666

Ion Ratio Lower Upper

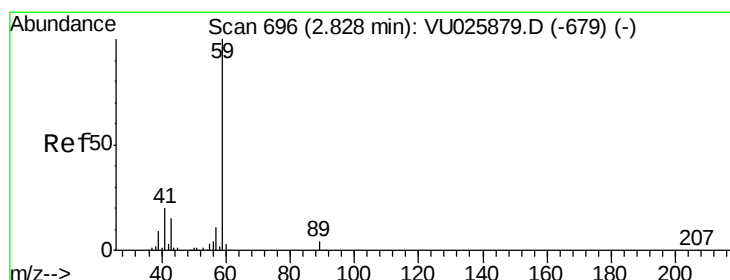
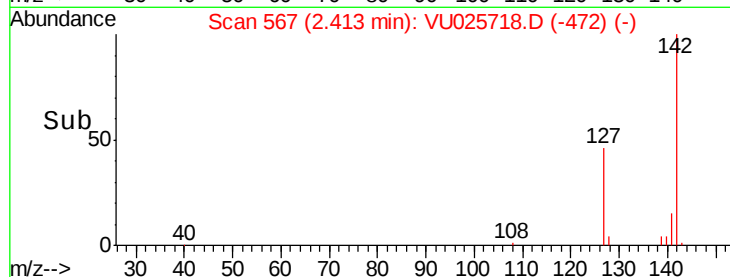
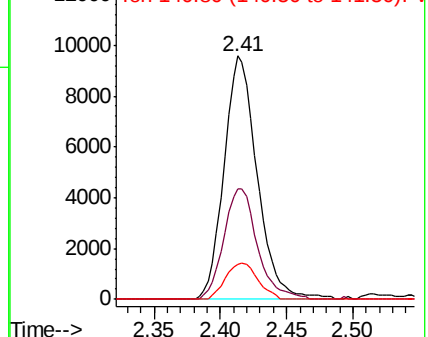
142 100

127 46.0 36.5 54.7

141 14.4 11.4 17.2



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.866 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU025718.D

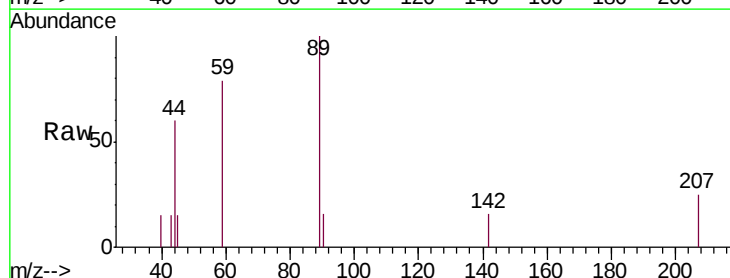
Acq: 30 Jul 2018 13:22

Tgt Ion: 59 Resp: 1092

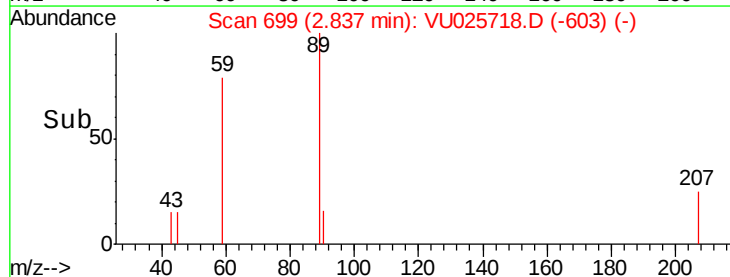
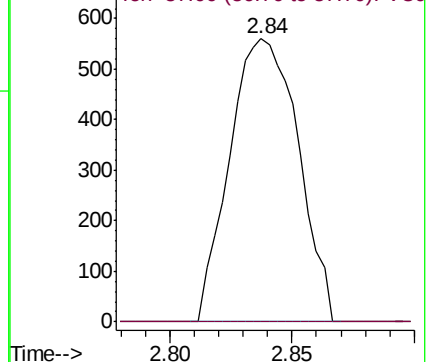
Ion Ratio Lower Upper

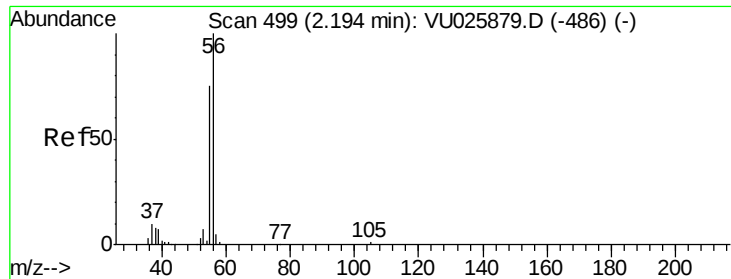
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

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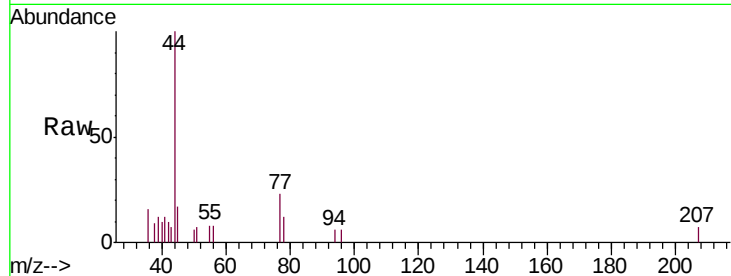
1513

Tgt Ion: 56 Resp: 79

Ion Ratio Lower Upper

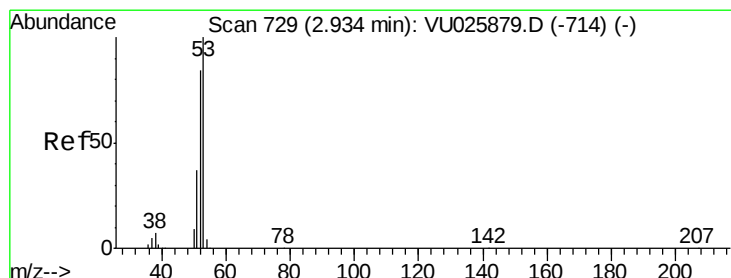
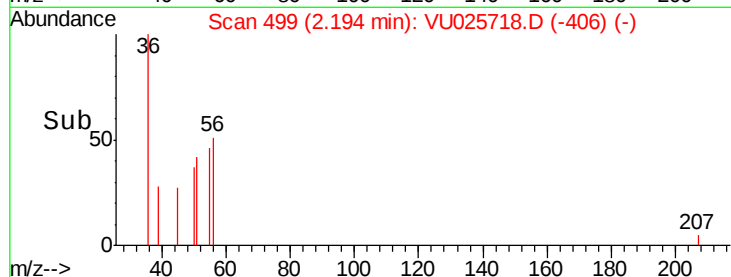
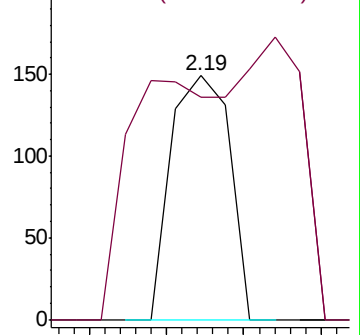
56 100

55 131.6 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU025718.D (-406) (-)

Ion 55.00 (54.70 to 55.70): VU025718.D (-406) (-)



#15

Acrylonitrile

Concen: 1.430 ug/l

RT: 3.00 min Scan# 751

Delta R.T. 0.07 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

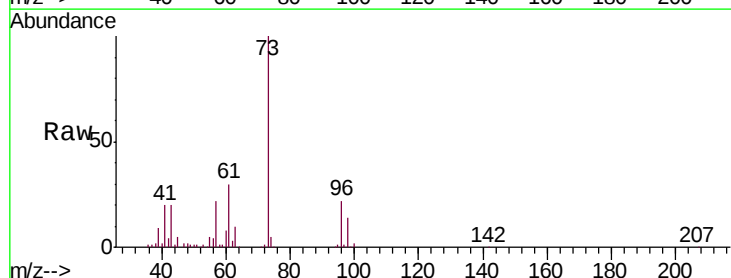
Tgt Ion: 53 Resp: 1671

Ion Ratio Lower Upper

53 100

52 22.4 66.6 99.8#

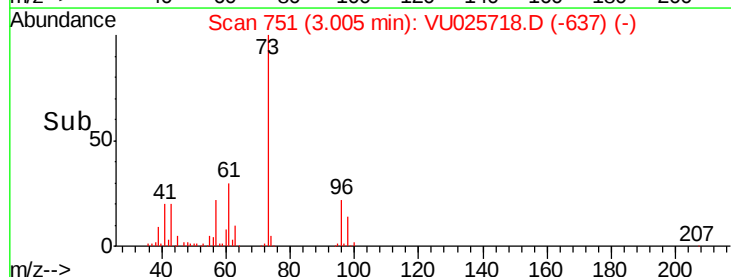
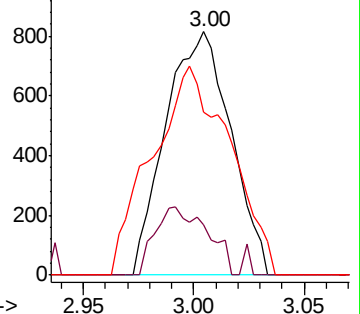
51 102.8 29.4 44.2#

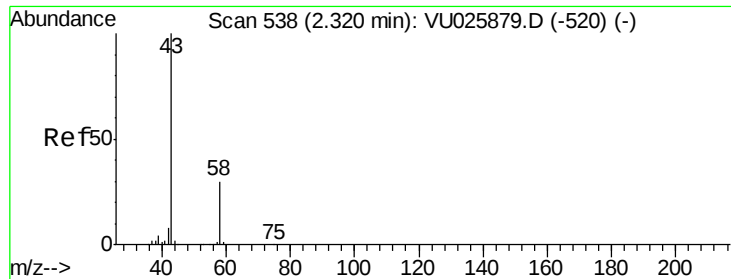


Abundance Ion 53.00 (52.70 to 53.70): VU025718.D (-637) (-)

Ion 52.00 (51.70 to 52.70): VU025718.D (-637) (-)

Ion 51.00 (50.70 to 51.70): VU025718.D (-637) (-)





#16

Acetone

Concen: 1.091 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

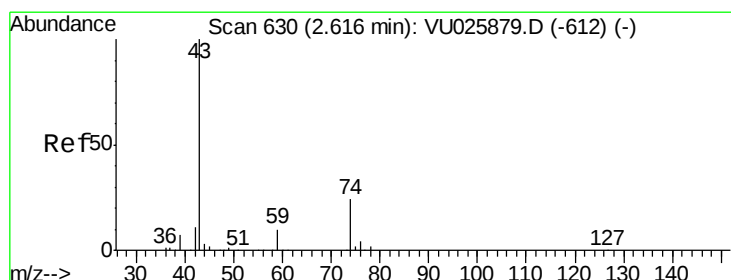
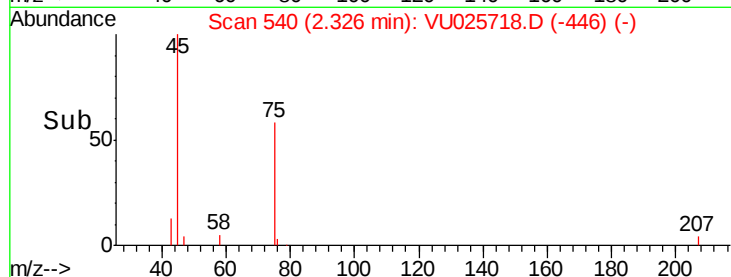
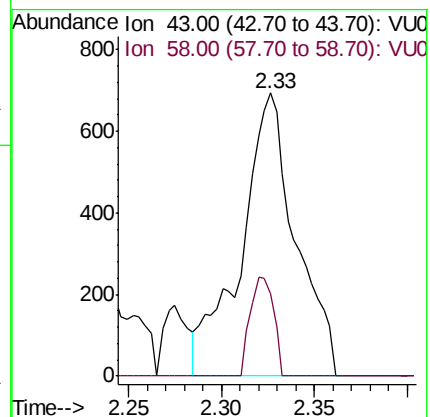
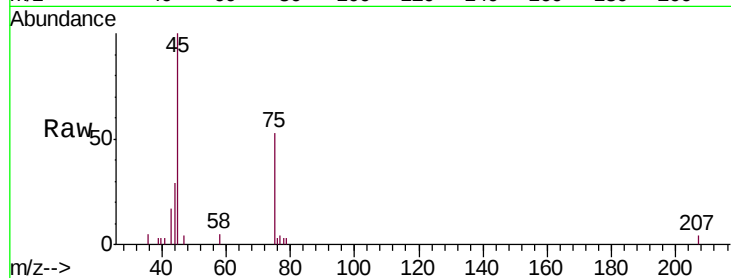
ClientSampleId :
1513

Tgt Ion: 43 Resp: 1421

Ion Ratio Lower Upper

43 100

58 29.1 23.1 34.7



#18

Methyl Acetate

Concen: 0.906 ug/l

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU025718.D

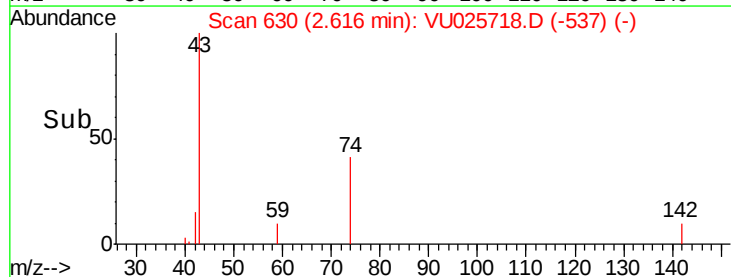
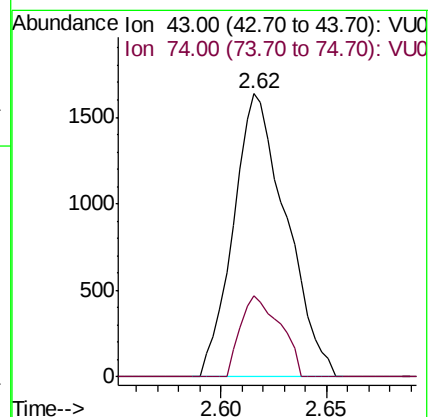
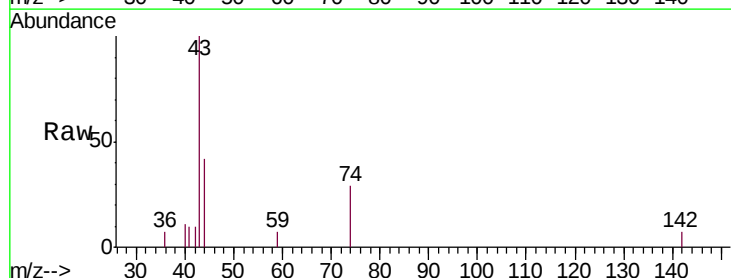
Acq: 30 Jul 2018 13:22

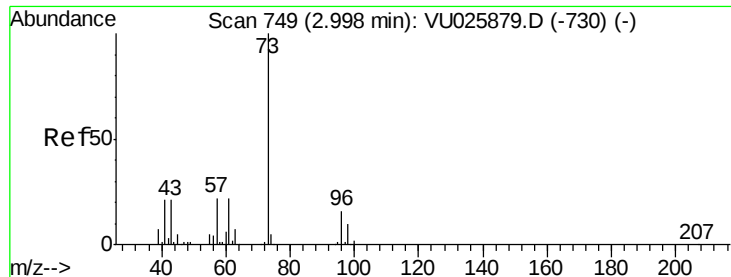
Tgt Ion: 43 Resp: 2840

Ion Ratio Lower Upper

43 100

74 21.6 18.5 27.7

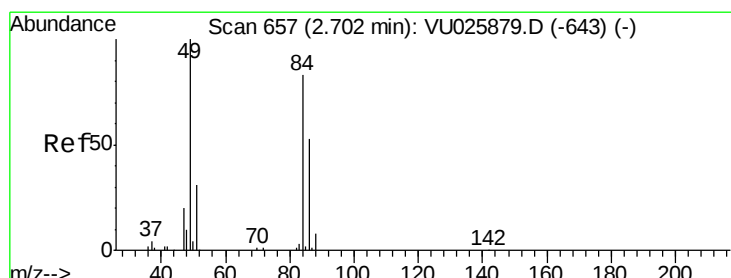
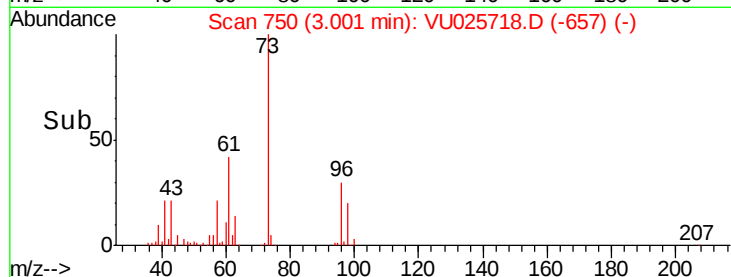
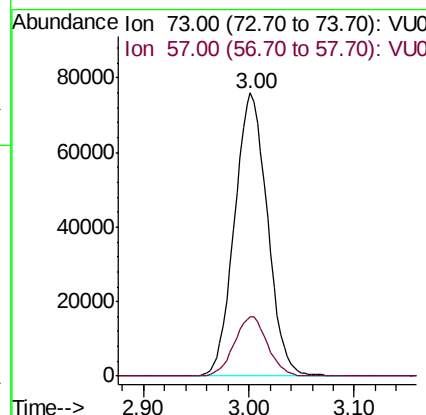
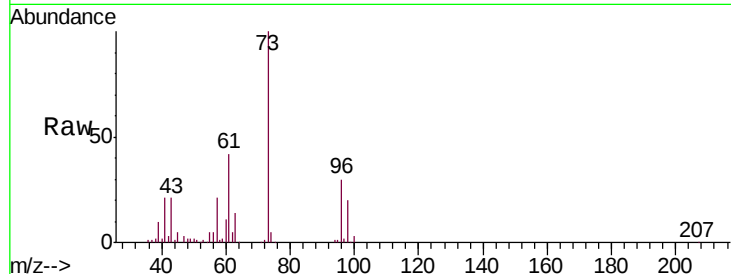




#19
Methyl tert-butyl Ether
Concen: 24.586 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

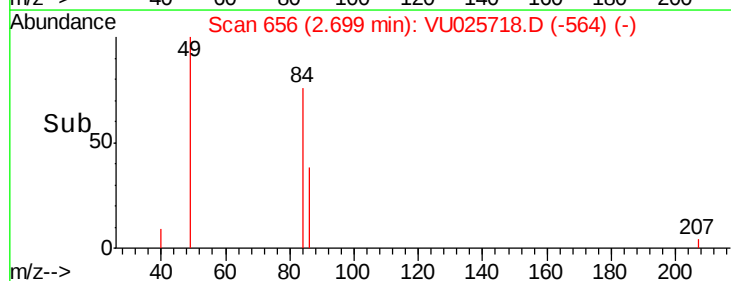
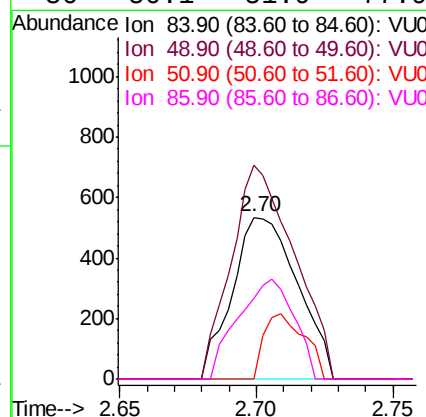
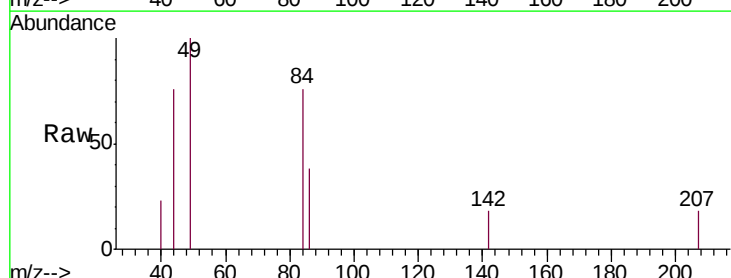
Instrument :
MSVOA_U
ClientSampleId :
1513

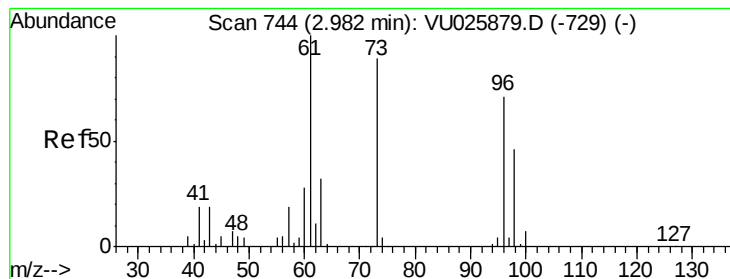
Tgt Ion: 73 Resp: 164079
Ion Ratio Lower Upper
73 100
57 21.1 17.4 26.2



#20
Methylene Chloride
Concen: 0.386 ug/l
RT: 2.70 min Scan# 656
Delta R.T. -0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion: 84 Resp: 891
Ion Ratio Lower Upper
84 100
49 132.0 101.8 152.6
51 0.0 30.8 46.2#
86 50.1 51.9 77.9#





#21

trans-1,2-Dichloroethene

Concen: 43.765 ug/l

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

1513

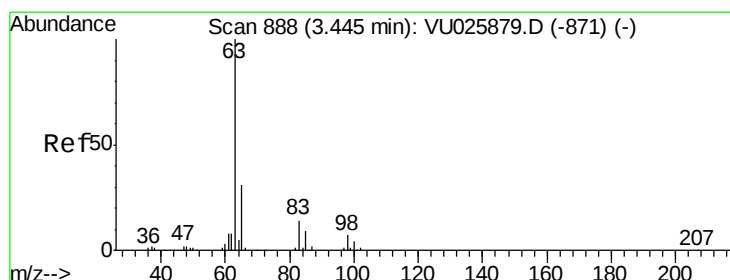
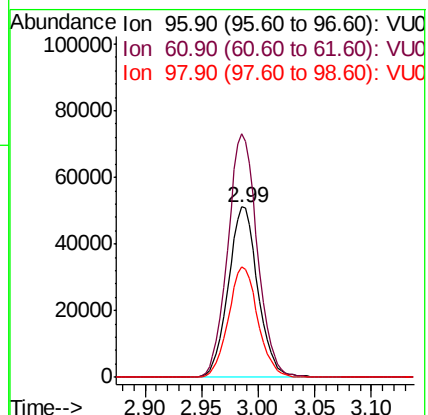
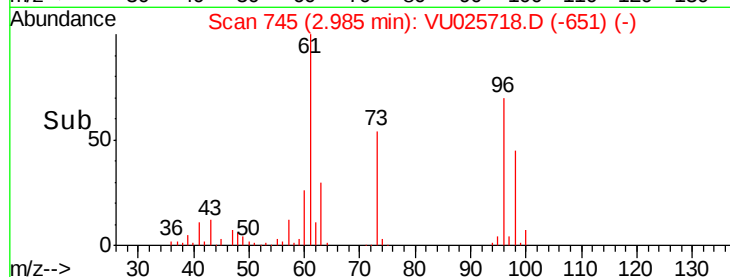
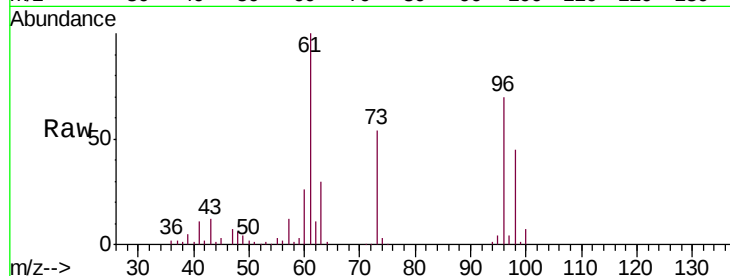
Tgt Ion: 96 Resp: 93170

Ion Ratio Lower Upper

96 100

61 142.8 114.5 171.7

98 64.5 50.5 75.7



#24

1,1-Dichloroethane

Concen: 69.029 ug/l

RT: 3.45 min Scan# 890

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

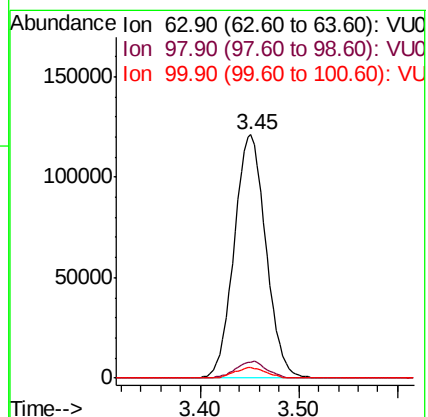
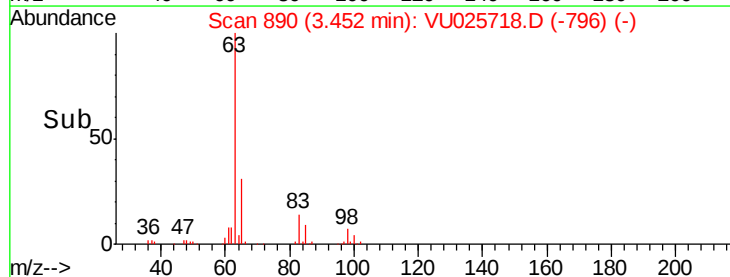
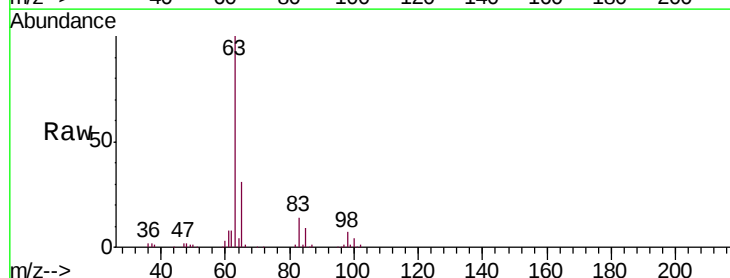
Tgt Ion: 63 Resp: 270240

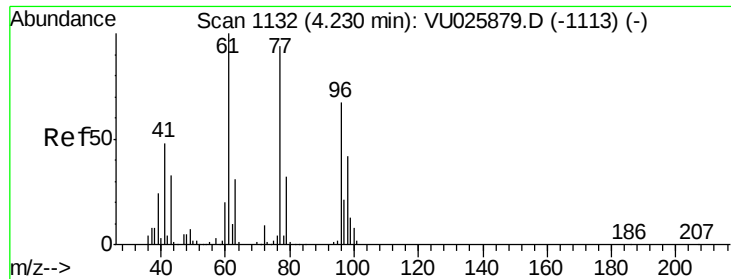
Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.1

100 4.4 2.0 6.0

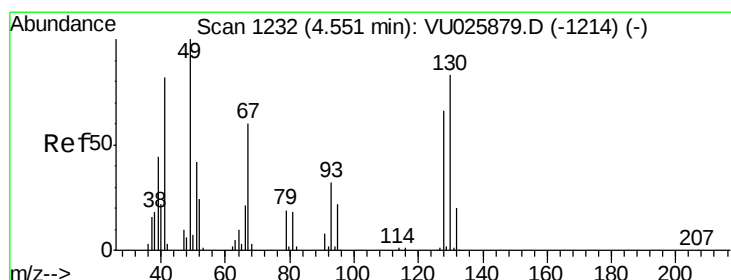
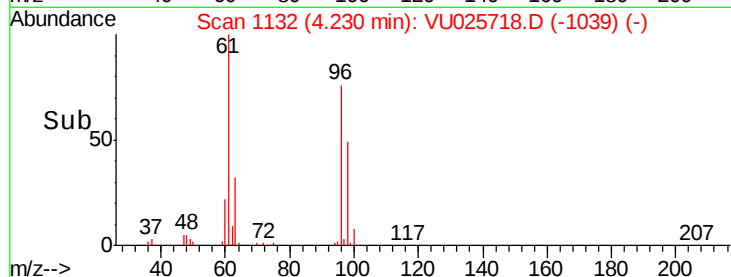
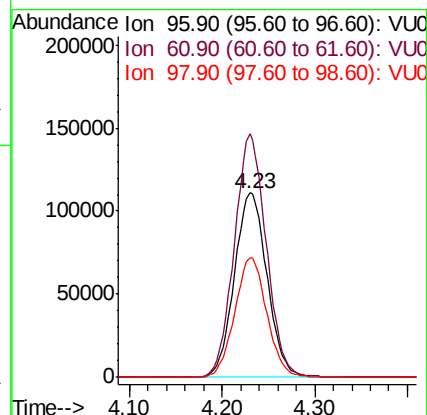
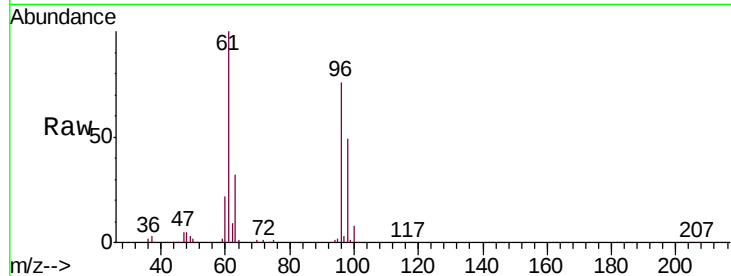




#27
 cis-1,2-Dichloroethene
 Concen: 113.272 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

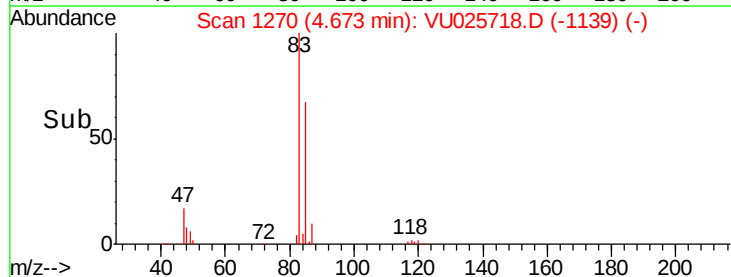
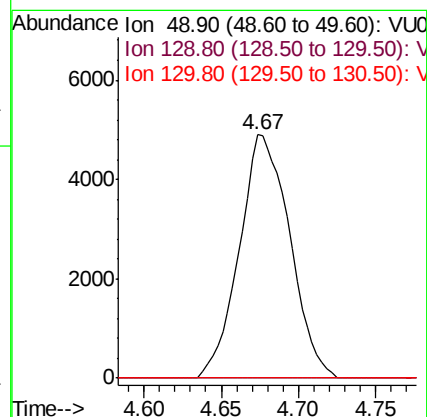
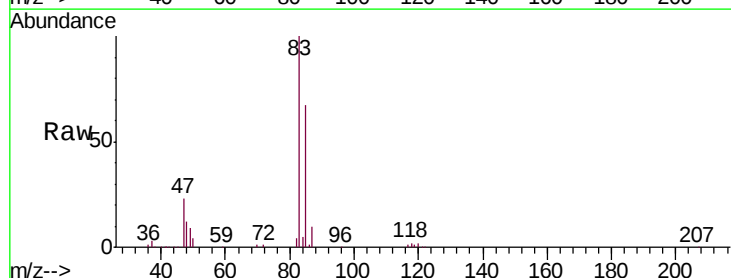
Instrument :
 MSVOA_U
 ClientSampleId :
 1513

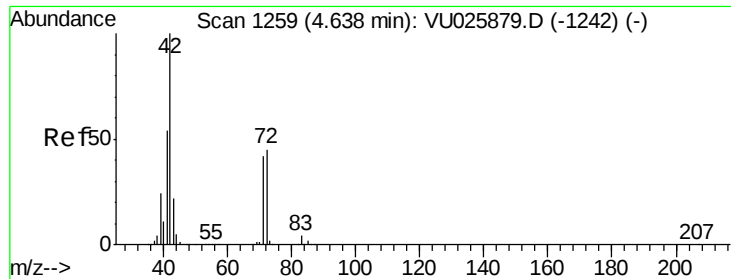
Tgt Ion: 96 Resp: 271873
 Ion Ratio Lower Upper
 96 100
 61 128.5 0.0 299.8
 98 63.6 0.0 128.6



#28
 Bromochloromethane
 Concen: 6.351 ug/l
 RT: 4.67 min Scan# 1270
 Delta R.T. 0.12 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 49 Resp: 11116
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.6
 130 0.0 68.6 102.8#

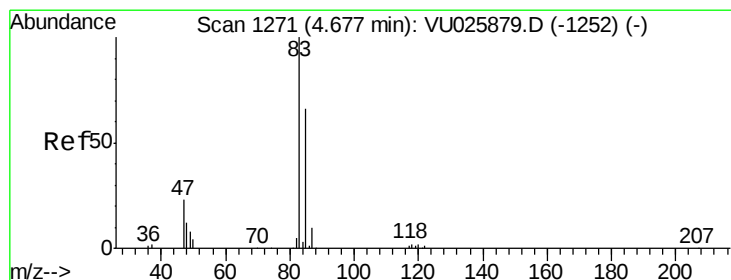
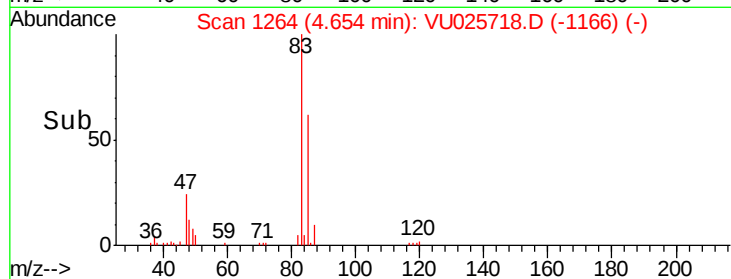
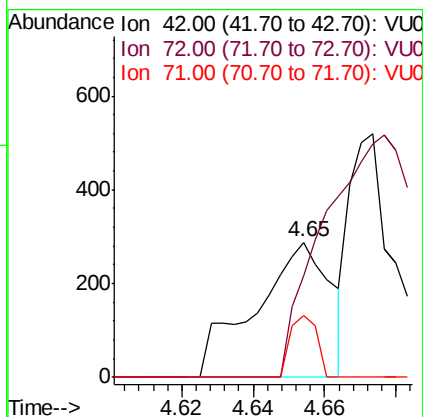
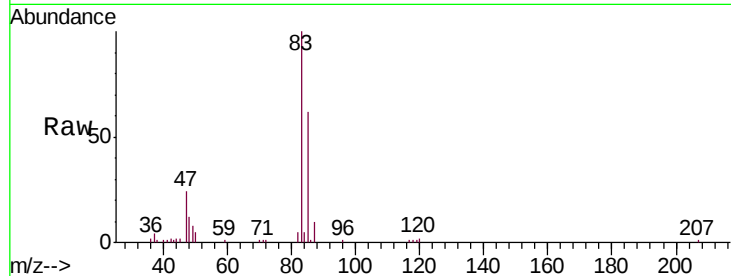




#29
Tetrahydrofuran
Concen: 0.395 ug/l
RT: 4.65 min Scan# 1264
Delta R.T. 0.02 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

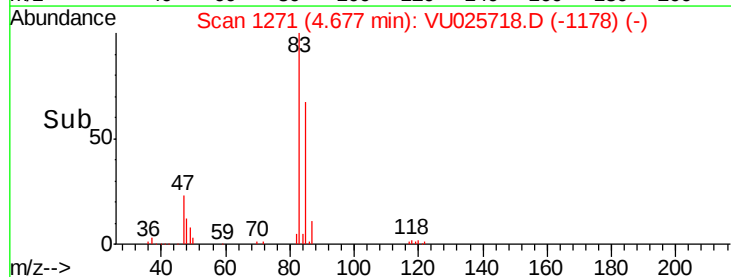
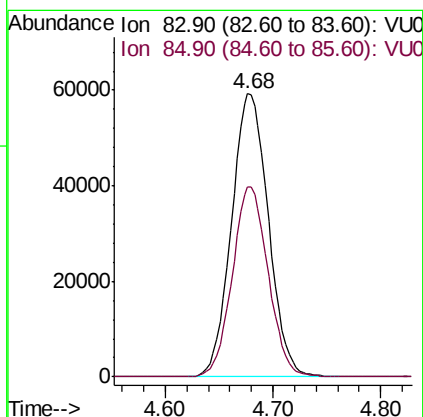
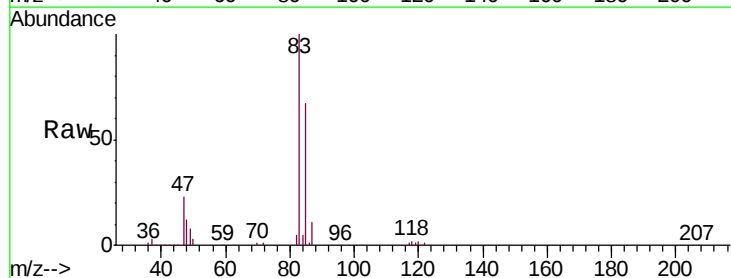
Instrument :
MSVOA_U
ClientSampleId :
1513

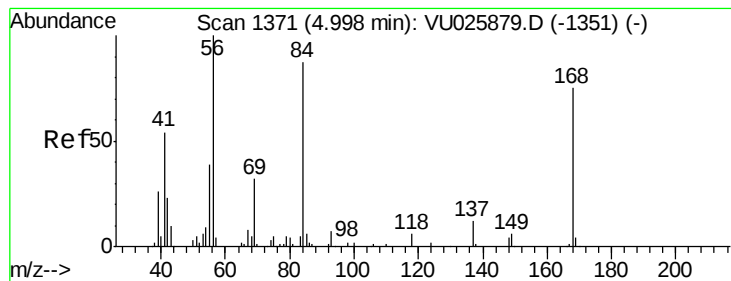
Tgt Ion: 42 Resp: 420
Ion Ratio Lower Upper
42 100
72 0.0 36.7 55.1#
71 16.0 33.9 50.9#



#30
Chloroform
Concen: 34.116 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion: 83 Resp: 140978
Ion Ratio Lower Upper
83 100
85 67.2 51.5 77.3





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1365

Delta R.T. -0.02 min

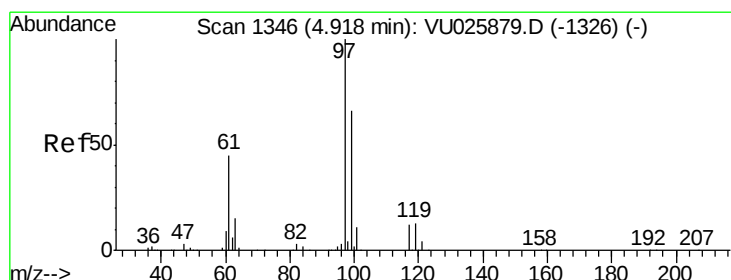
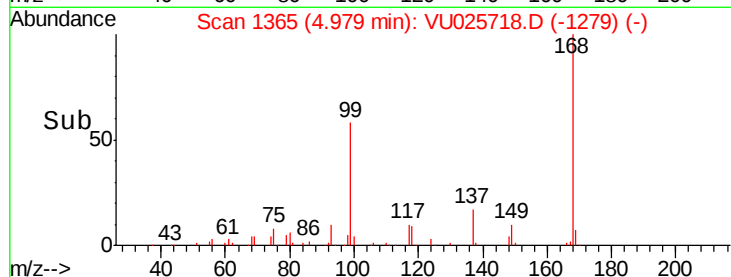
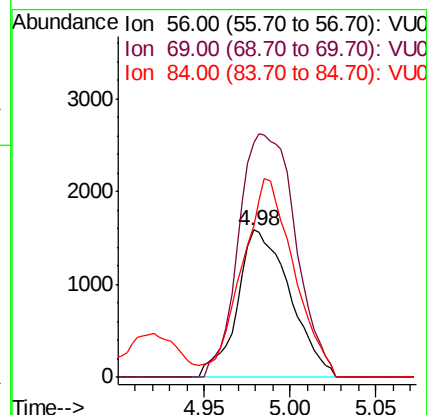
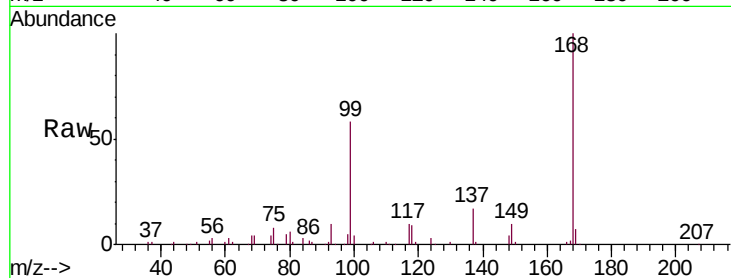
Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :
MSVOA_U
ClientSampleId :
1513

Tgt Ion: 56 Resp: 3395

Ion	Ratio	Lower	Upper
56	100		
69	159.9	26.8	40.2#
84	103.4	69.7	104.5



#32

1,1,1-Trichloroethane

Concen: 16.635 ug/l

RT: 4.92 min Scan# 1347

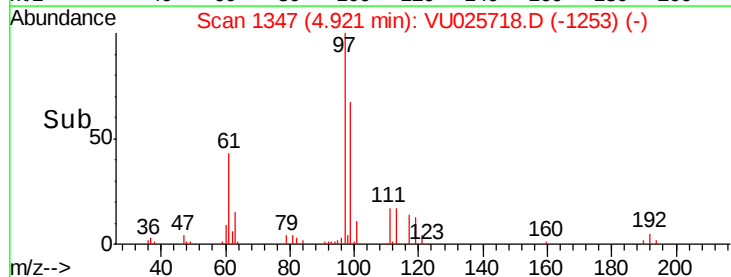
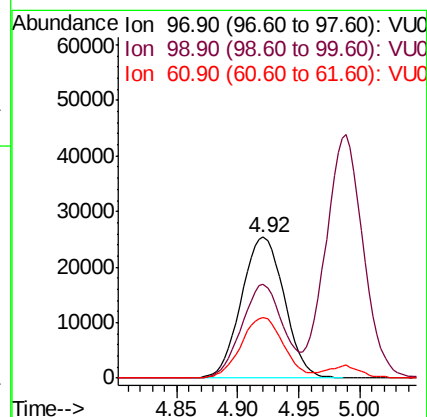
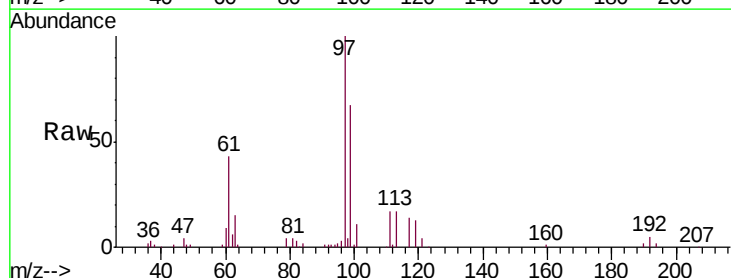
Delta R.T. 0.00 min

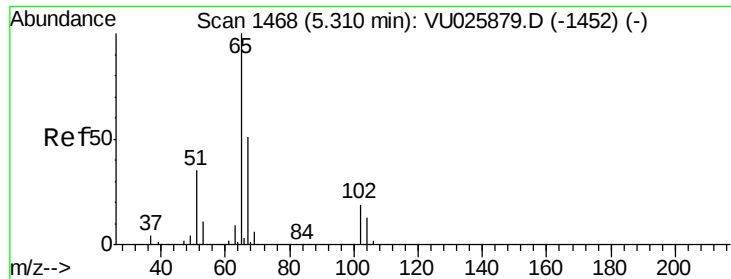
Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Tgt Ion: 97 Resp: 61888

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.8	76.2
61	42.8	35.2	52.8





#33

1,2-Dichloroethane-d4

Concen: 48.796 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampled :

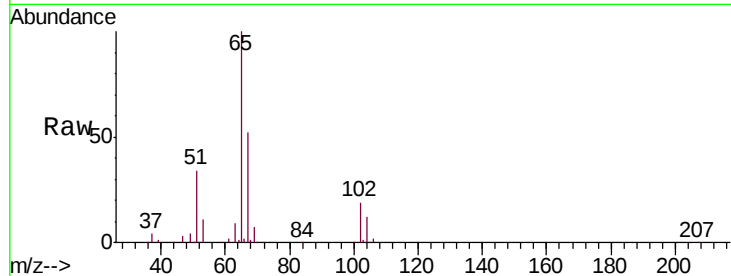
1513

Tgt Ion: 65 Resp: 130405

Ion Ratio Lower Upper

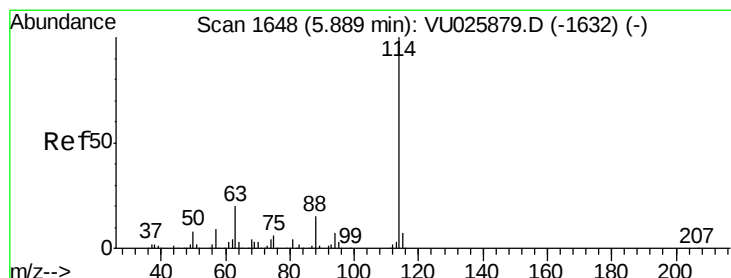
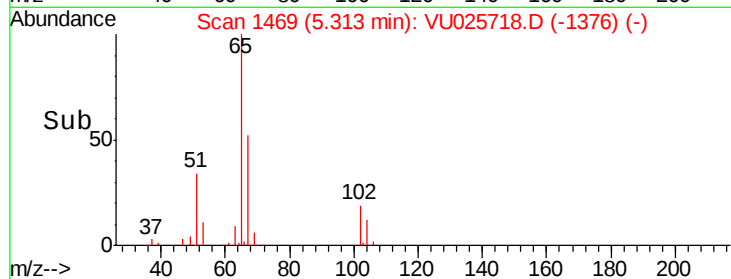
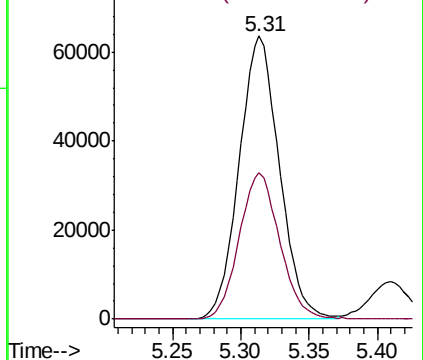
65 100

67 52.2 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

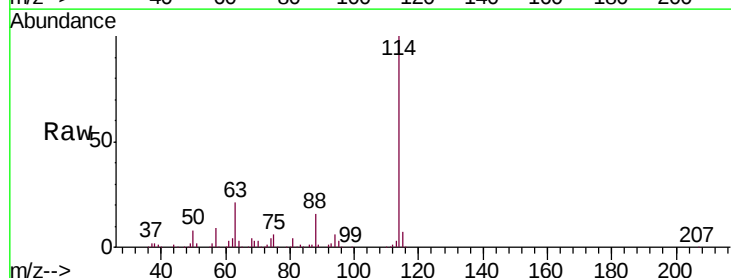
Tgt Ion: 114 Resp: 259850

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.6

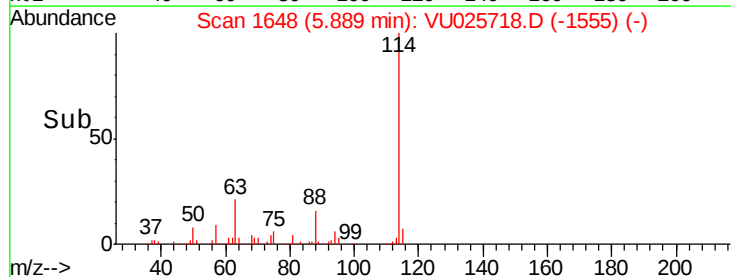
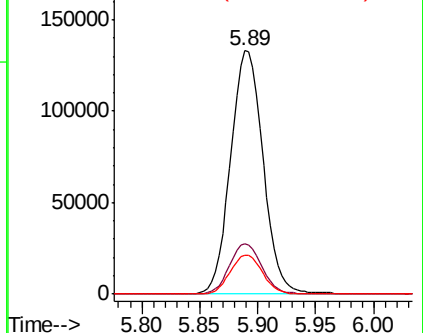
88 15.9 0.0 32.4

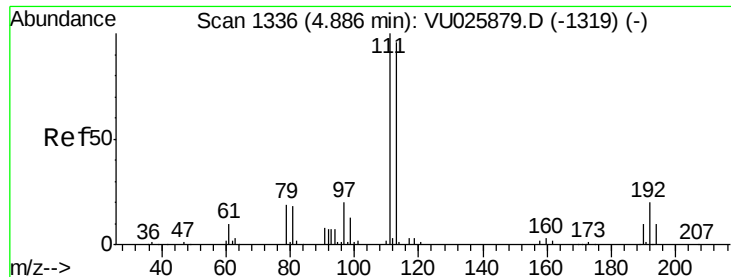


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0

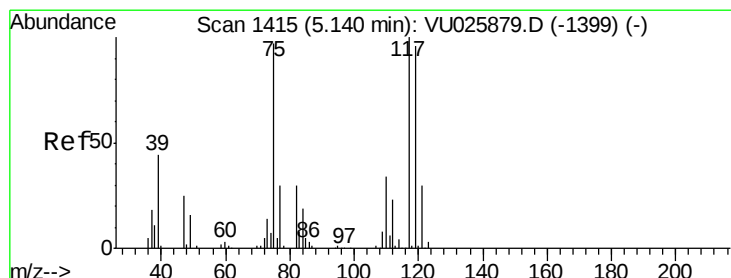
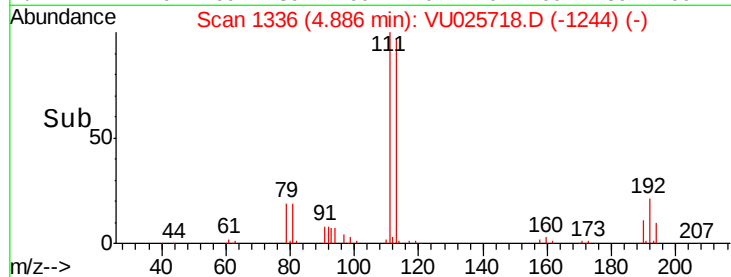
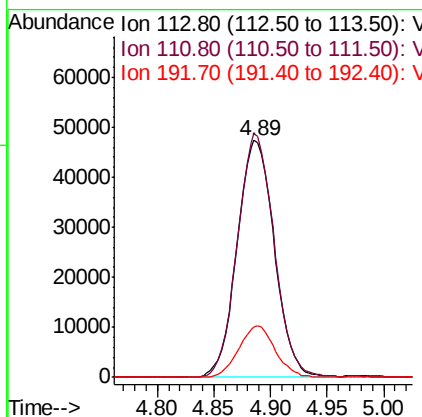
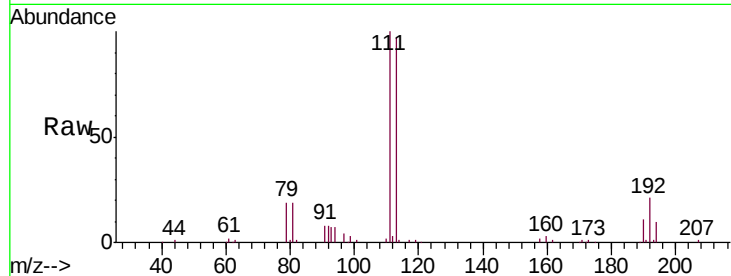




#35
 Dibromofluoromethane
 Concen: 48.167 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

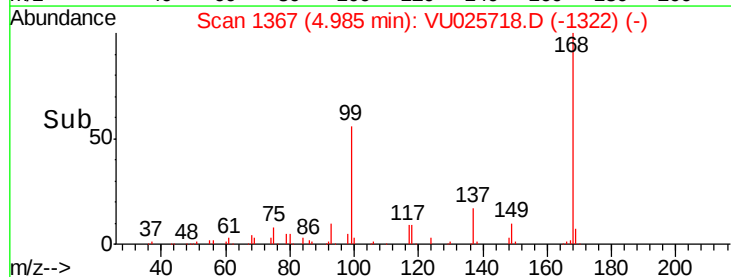
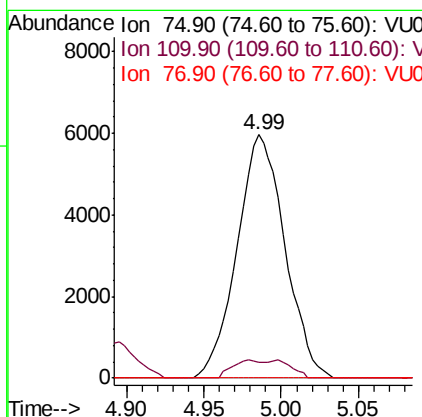
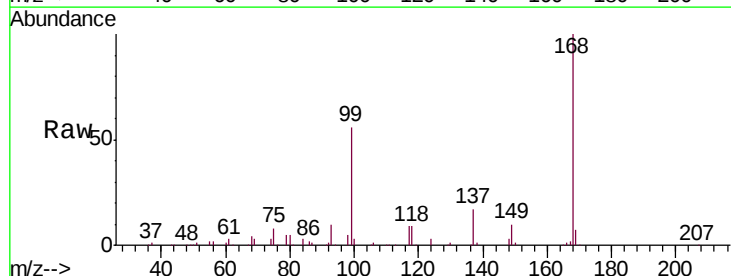
Instrument :
 MSVOA_U
 ClientSampled :
 1513

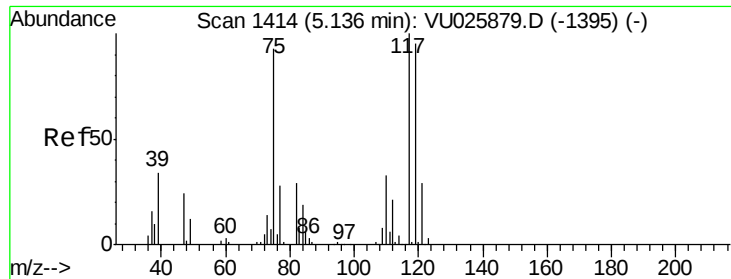
Tgt Ion:113 Resp: 108860
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.7 122.5
 192 21.1 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.226 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 75 Resp: 12834
 Ion Ratio Lower Upper
 75 100
 110 4.7 17.6 52.9#
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.497 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampled :

1513

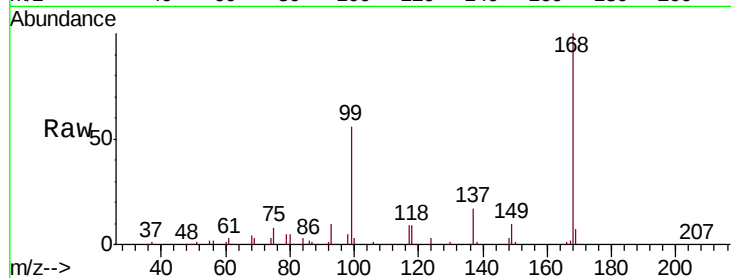
Tgt Ion:117 Resp: 15468

Ion Ratio Lower Upper

117 100

119 4.6 75.7 113.5#

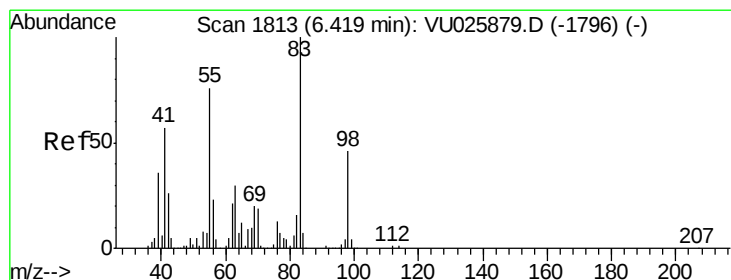
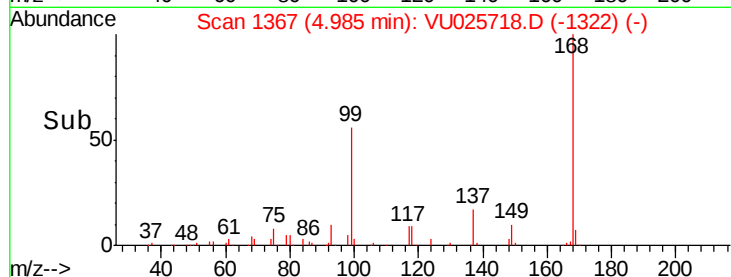
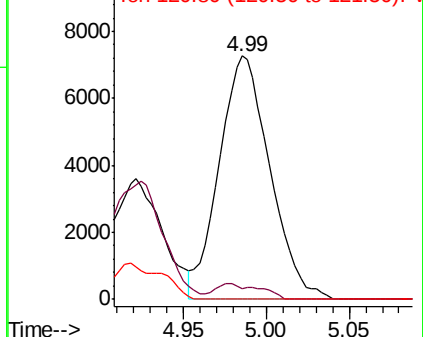
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.461 ug/l

RT: 6.44 min Scan# 1818

Delta R.T. 0.02 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

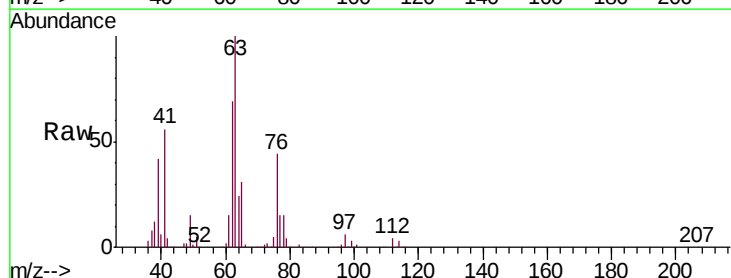
Tgt Ion: 83 Resp: 1604

Ion Ratio Lower Upper

83 100

55 0.0 60.0 90.0#

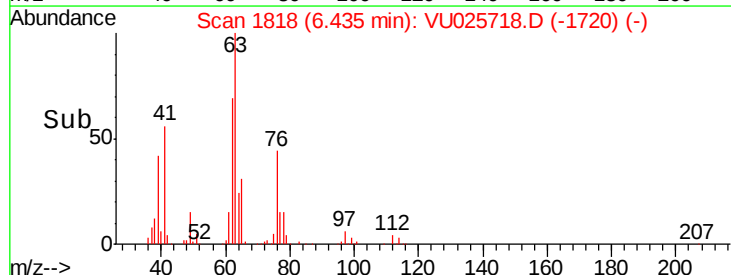
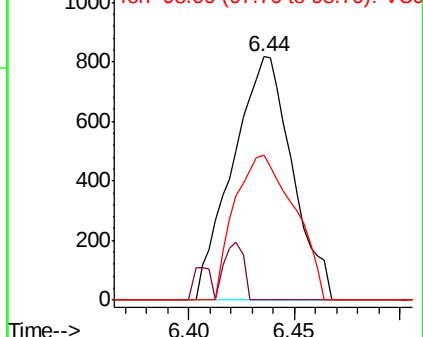
98 59.7 36.1 54.1#

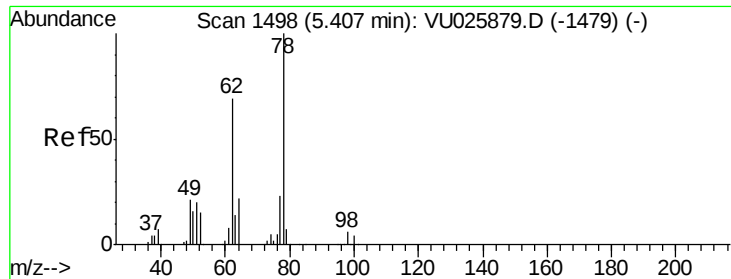


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

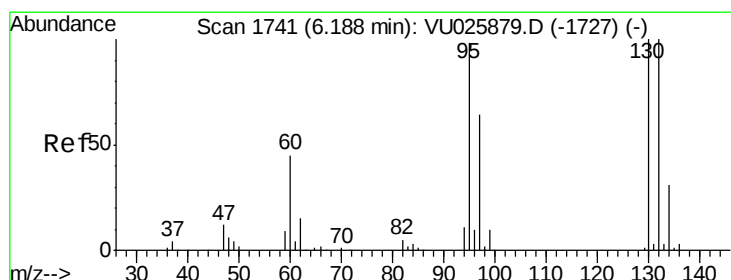
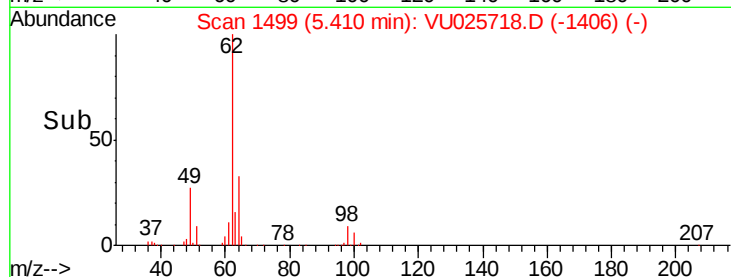
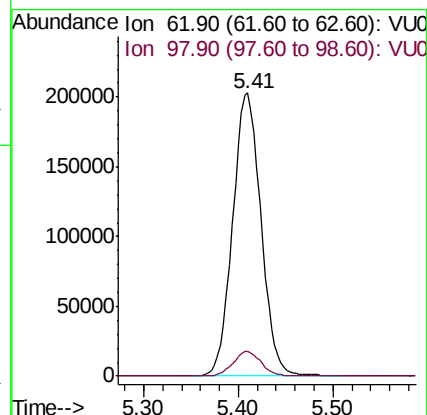
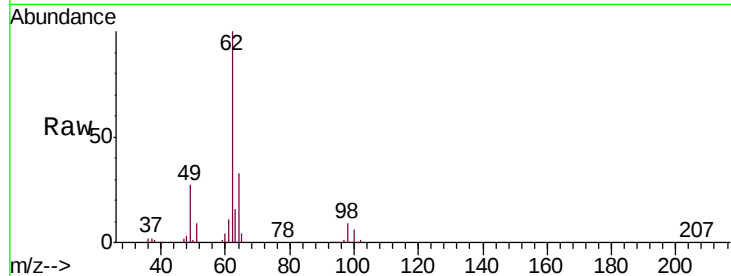




#42
1,2-Dichloroethane
Concen: 123.909 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

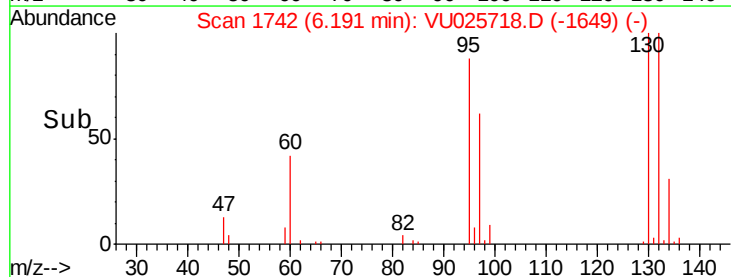
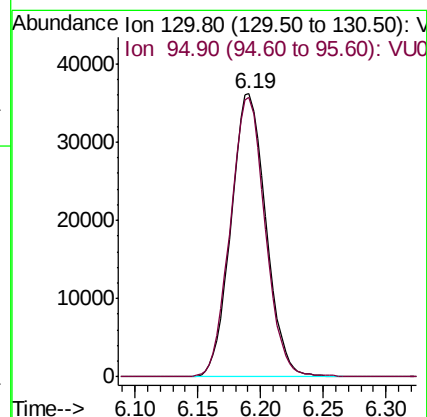
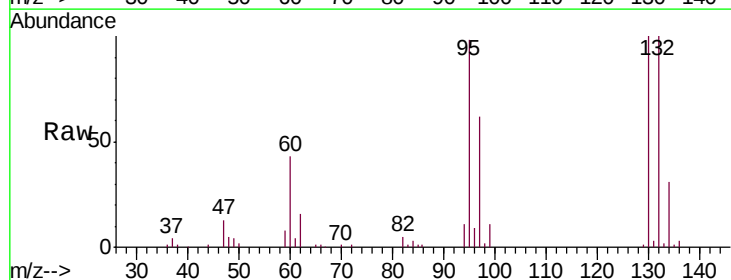
Instrument :
MSVOA_U
ClientSampleId :
1513

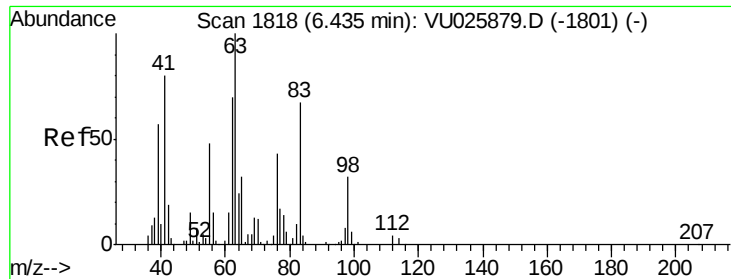
Tgt Ion: 62 Resp: 423521
Ion Ratio Lower Upper
62 100
98 8.6 0.0 16.4



#44
Trichloroethene
Concen: 28.286 ug/l
RT: 6.19 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion:130 Resp: 69924
Ion Ratio Lower Upper
130 100
95 98.7 0.0 192.2

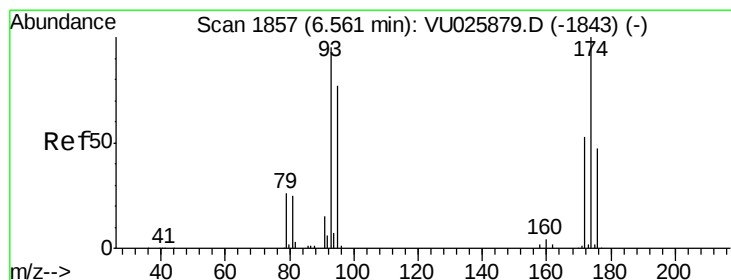
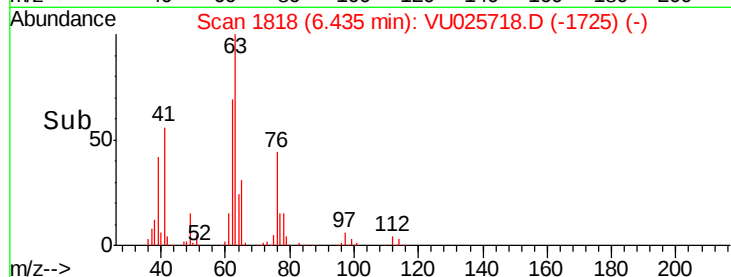
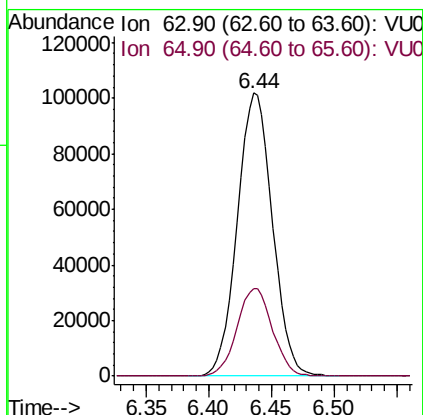
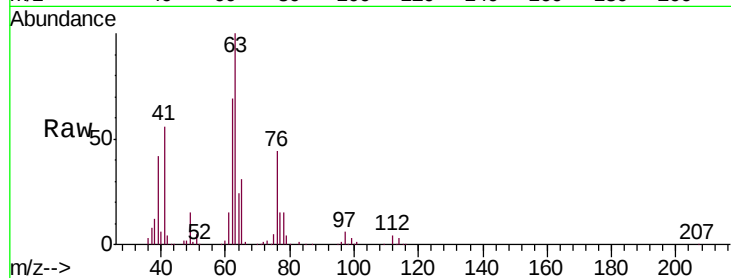




#45
 1,2-Dichloropropane
 Concen: 85.649 ug/l
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

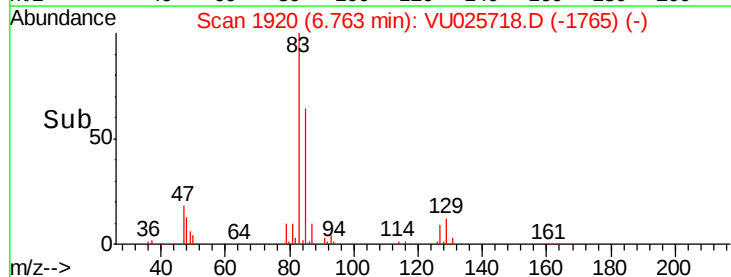
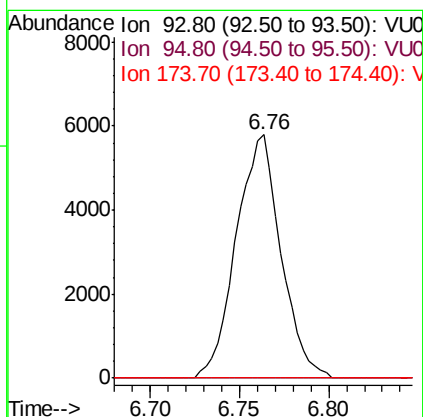
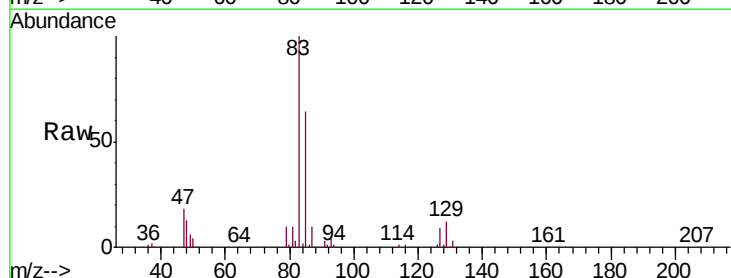
Instrument :
 MSVOA_U
 ClientSampleId :
 1513

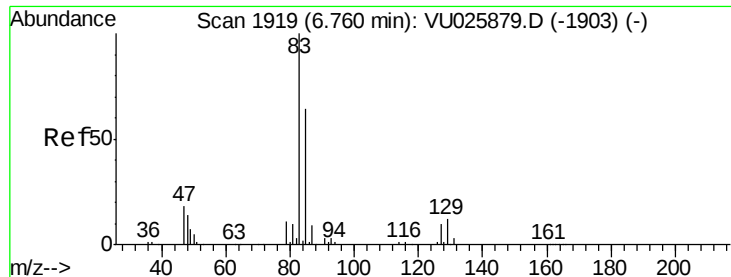
Tgt Ion: 63 Resp: 198281
 Ion Ratio Lower Upper
 63 100
 65 31.1 26.1 39.1



#46
 Dibromomethane
 Concen: 6.019 ug/l
 RT: 6.76 min Scan# 1920
 Delta R.T. 0.20 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 93 Resp: 10096
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.6 100.0#
 174 0.0 85.8 128.8#





#47

Bromodichloromethane

Concen: 93.595 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

1513

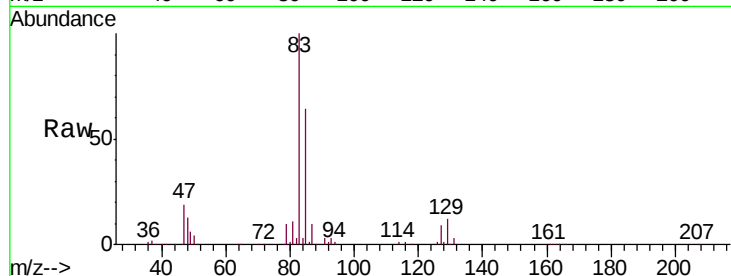
Tgt Ion: 83 Resp: 299482

Ion Ratio Lower Upper

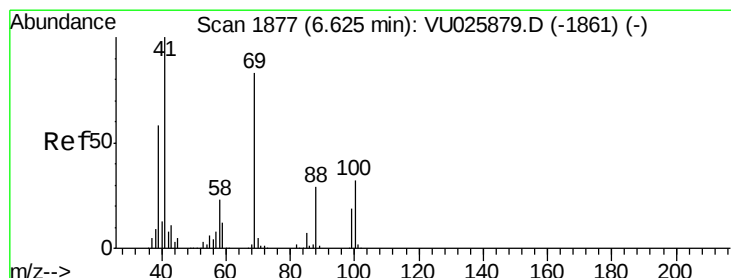
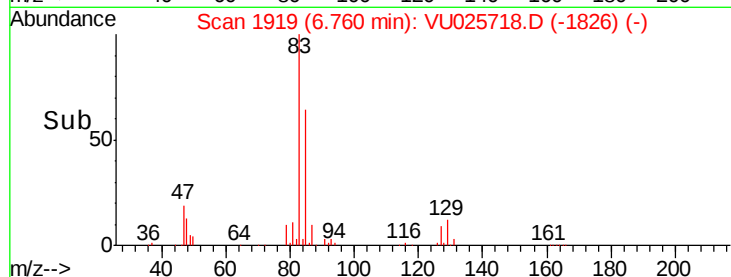
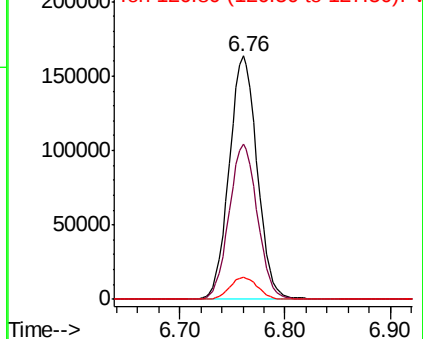
83 100

85 63.7 50.2 75.4

127 9.0 7.2 10.8



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 84.90 (84.60 to 85.60): VU0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 43.182 ug/l

RT: 6.44 min Scan# 1818

Delta R.T. -0.19 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

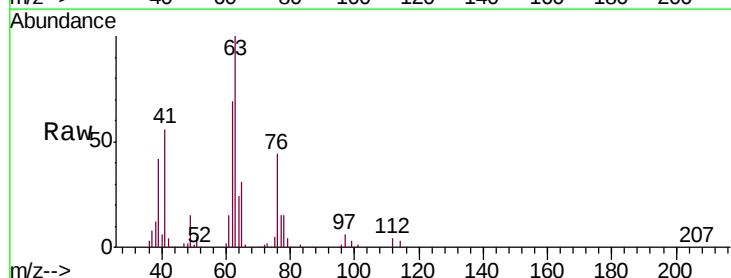
Tgt Ion: 41 Resp: 110124

Ion Ratio Lower Upper

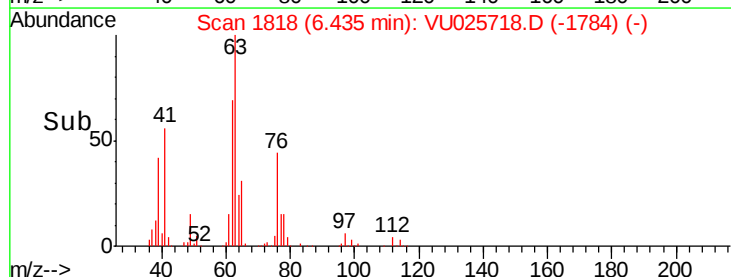
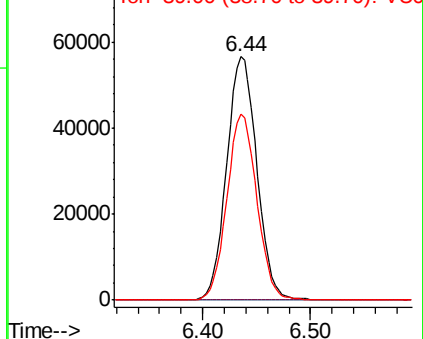
41 100

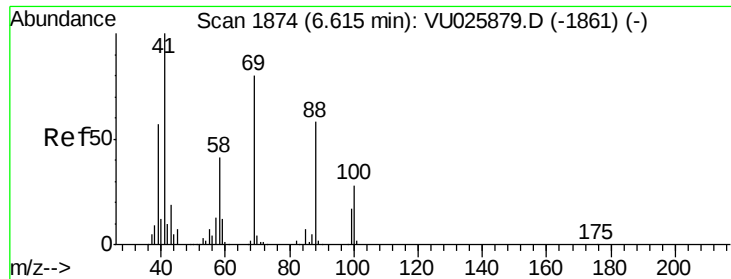
69 0.0 65.0 97.4#

39 75.6 46.4 69.6#



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

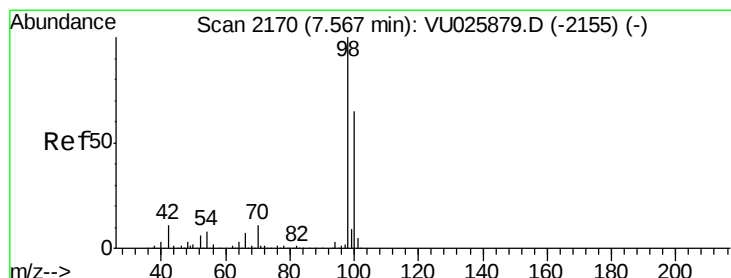
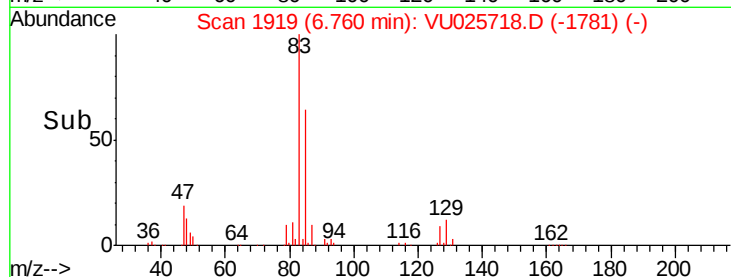
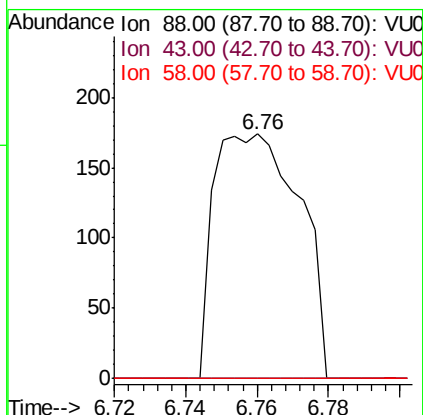
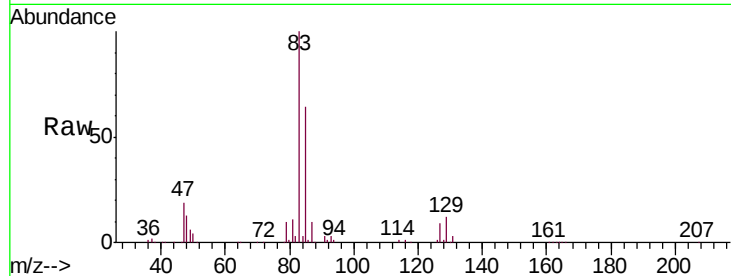




#49
 1,4-Dioxane
 Concen: 4.641 ug/l
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.14 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

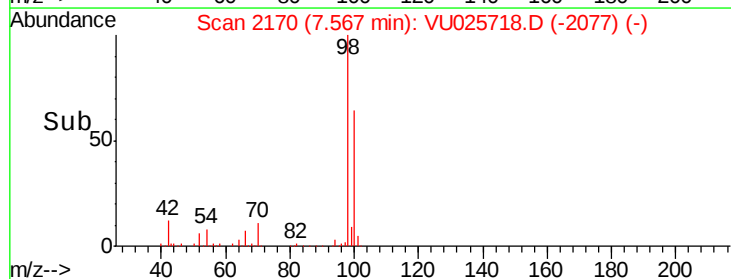
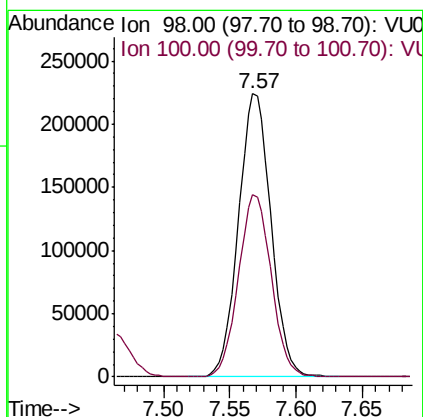
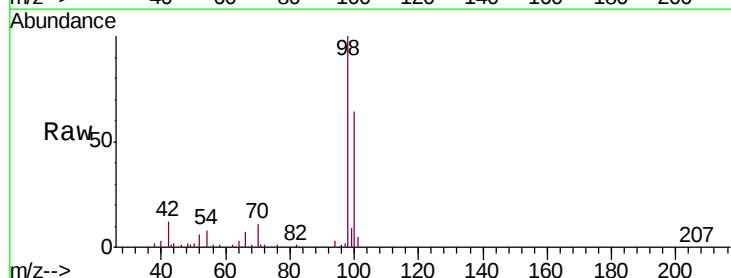
Instrument :
 MSVOA_U
 ClientSampleId :
 1513

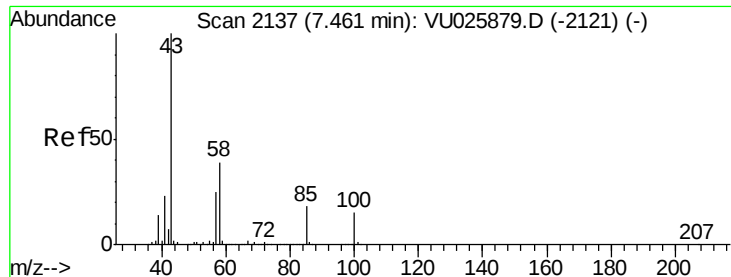
Tgt Ion: 88 Resp: 288
 Ion Ratio Lower Upper
 88 100
 43 0.0 27.3 40.9#
 58 0.0 57.6 86.4#



#50
 Toluene-d8
 Concen: 48.274 ug/l
 RT: 7.57 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 98 Resp: 381785
 Ion Ratio Lower Upper
 98 100
 100 64.5 51.1 76.7

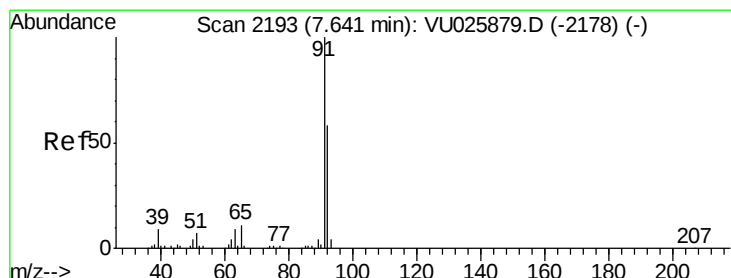
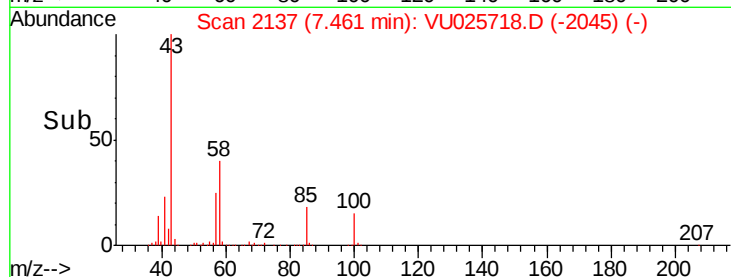
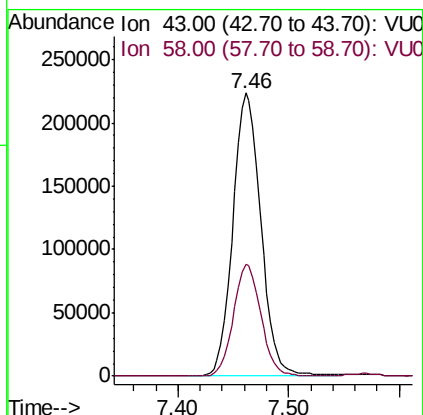
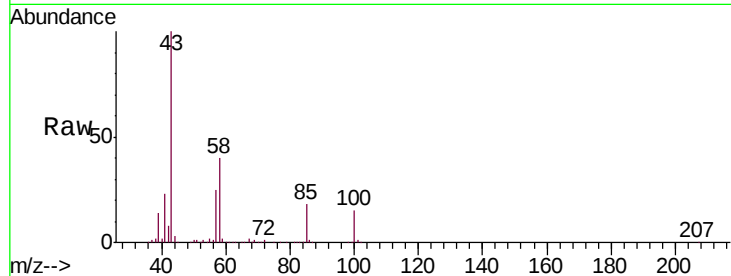




#51
 4-Methyl-2-Pentanone
 Concen: 120.915 ug/l
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

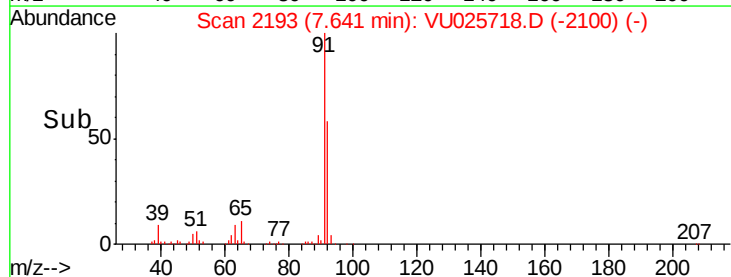
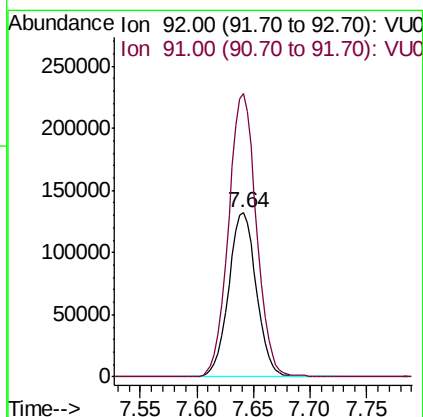
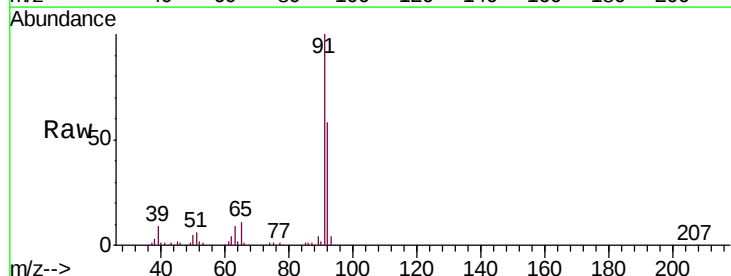
Instrument :
 MSVOA_U
 ClientSampled :
 1513

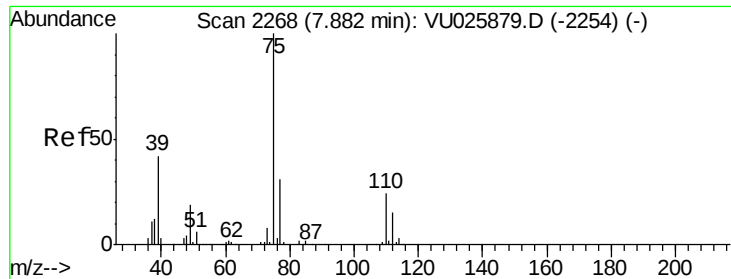
Tgt Ion: 43 Resp: 393899
 Ion Ratio Lower Upper
 43 100
 58 38.7 31.0 46.4



#52
 Toluene
 Concen: 40.959 ug/l
 RT: 7.64 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 92 Resp: 225877
 Ion Ratio Lower Upper
 92 100
 91 173.1 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 61.762 ug/l

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampled :

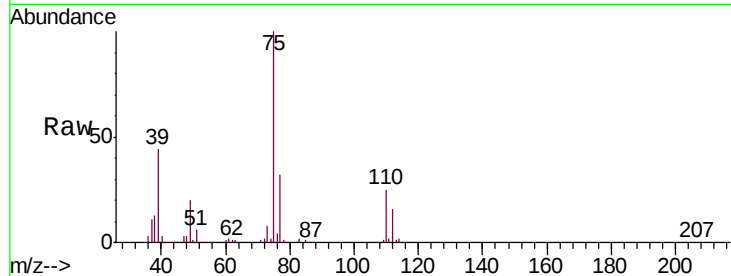
1513

Tgt Ion: 75 Resp: 221893

Ion Ratio Lower Upper

75 100

77 32.2 24.5 36.7



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

150000

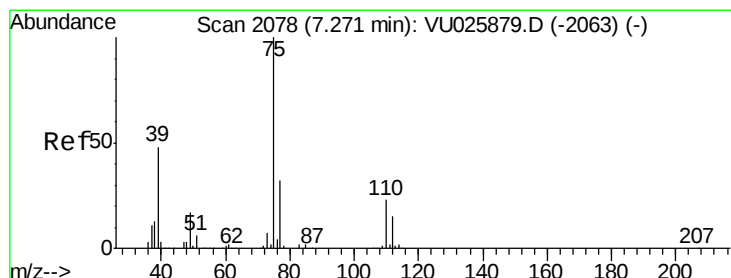
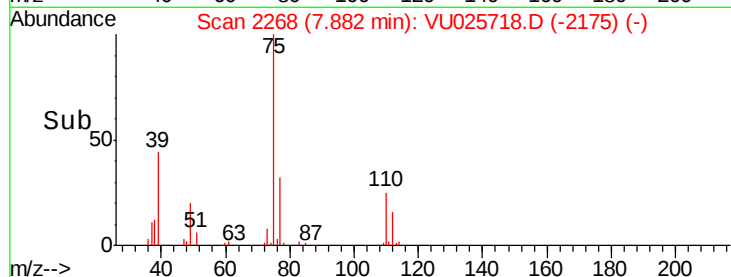
7.88

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 105.590 ug/l

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

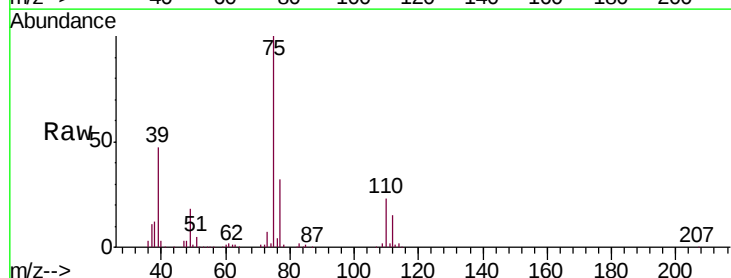
Tgt Ion: 75 Resp: 389685

Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4

39 47.4 40.0 60.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

300000

Ion 39.00 (38.70 to 39.70): VU0

250000

200000

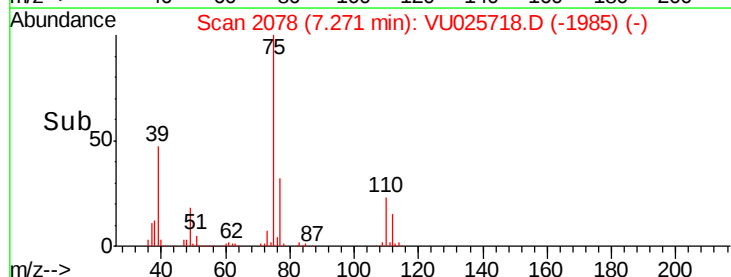
150000

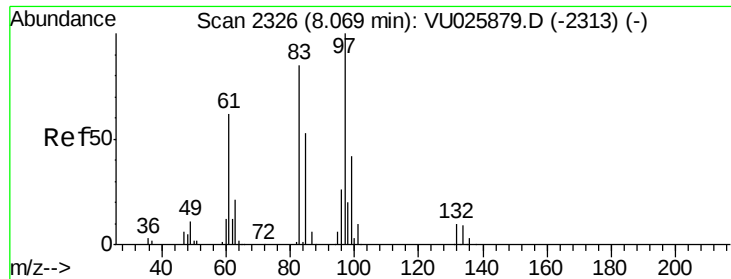
100000

50000

0

Time-->

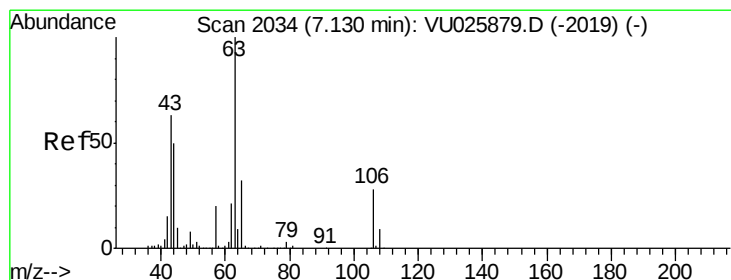
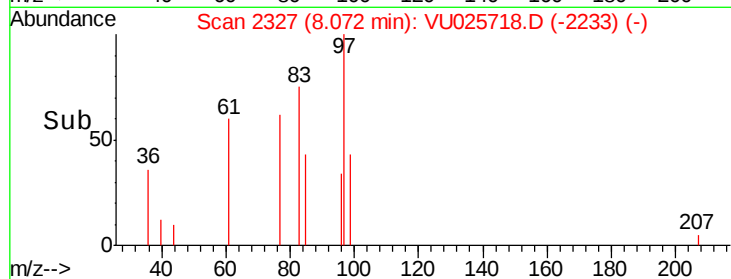
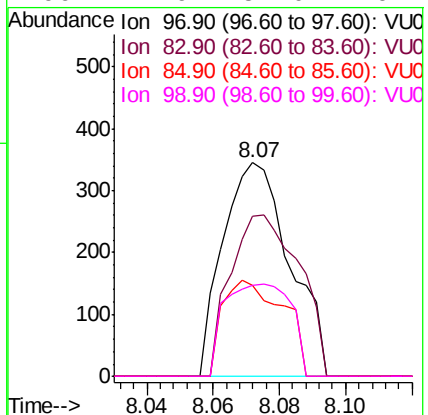
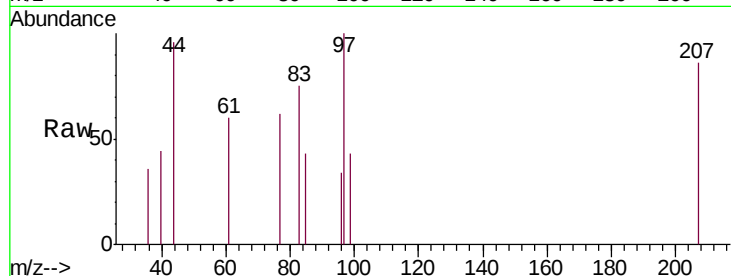




#55
 1,1,2-Trichloroethane
 Concen: 0.212 ug/l
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

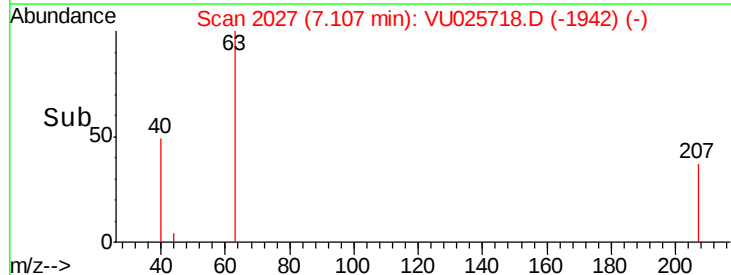
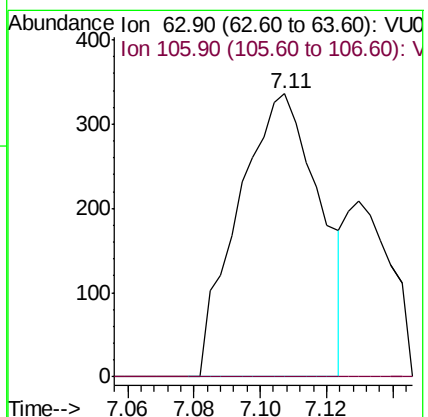
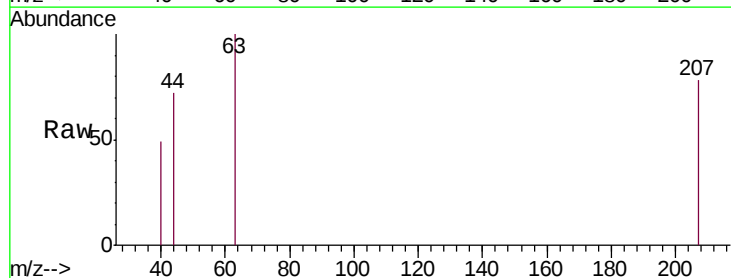
Instrument :
 MSVOA_U
 ClientSampleID :
 1513

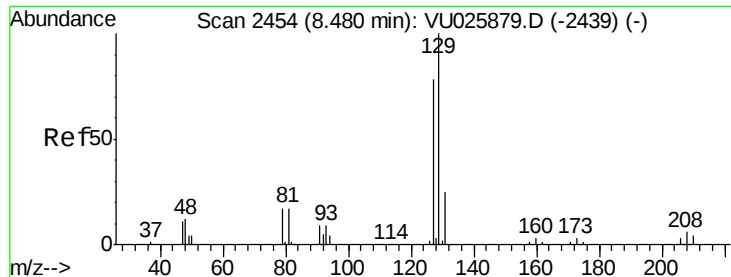
Tgt Ion: 97 Resp: 486
 Ion Ratio Lower Upper
 97 100
 83 75.1 68.9 103.3
 85 42.6 44.4 66.6#
 99 42.9 51.0 76.4#



#58
 2-Chloroethyl Vinyl ether
 Concen: 7.451 ug/l
 RT: 7.11 min Scan# 2027
 Delta R.T. -0.03 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 63 Resp: 571
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.3 33.5#





#60

Dibromochloromethane

Concen: 78.575 ug/l

RT: 8.48 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

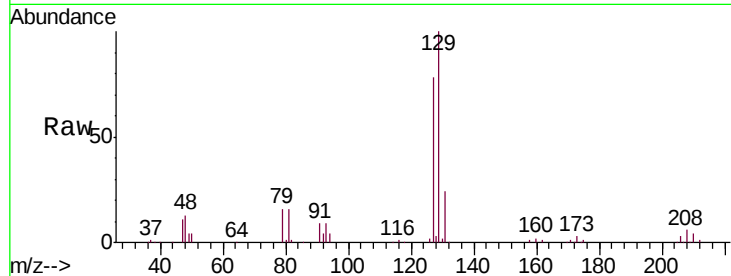
1513

Tgt Ion:129 Resp: 212355

Ion Ratio Lower Upper

129 100

127 77.8 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.48

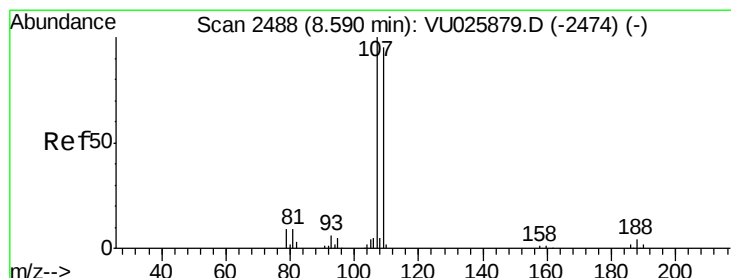
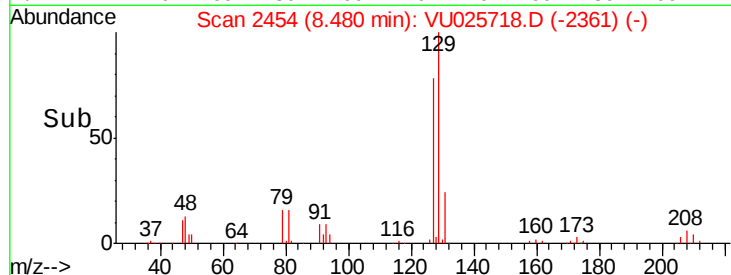
150000

100000

50000

0

Time-->



#61

1,2-Dibromoethane

Concen: 65.405 ug/l

RT: 8.59 min Scan# 2488

Delta R.T. 0.00 min

Lab File: VU025718.D

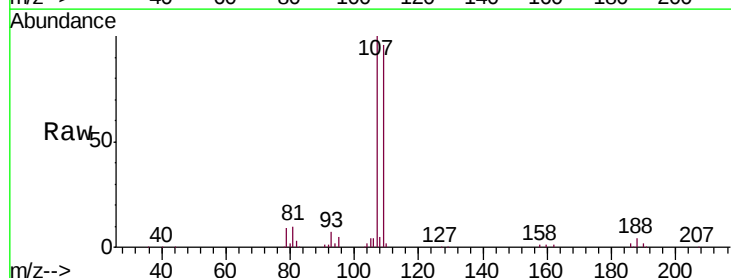
Acq: 30 Jul 2018 13:22

Tgt Ion:107 Resp: 166701

Ion Ratio Lower Upper

107 100

109 95.5 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.59

100000

80000

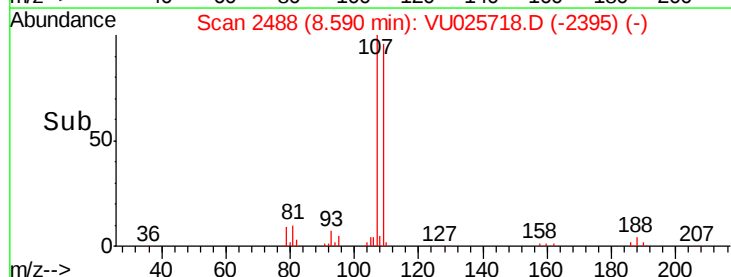
60000

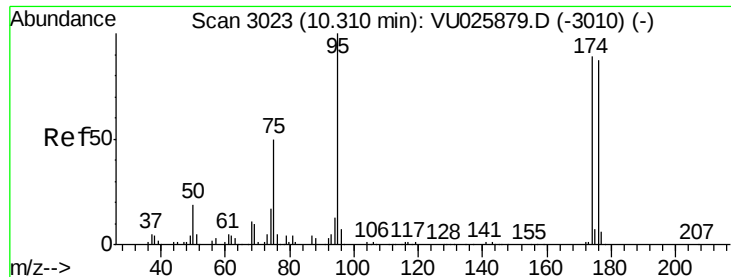
40000

20000

0

Time-->

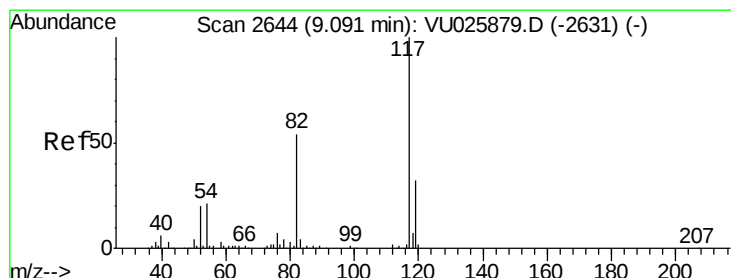
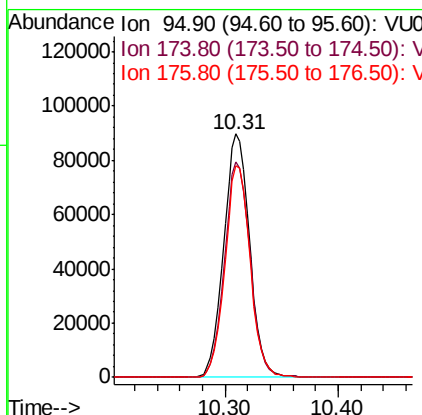
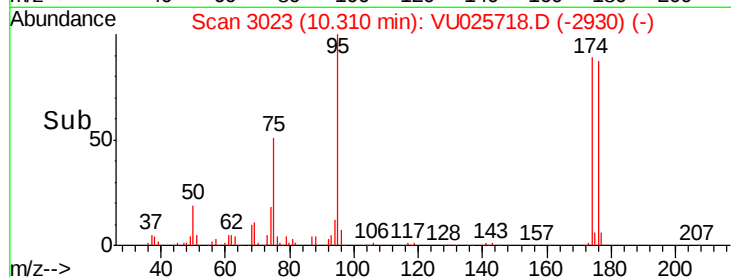
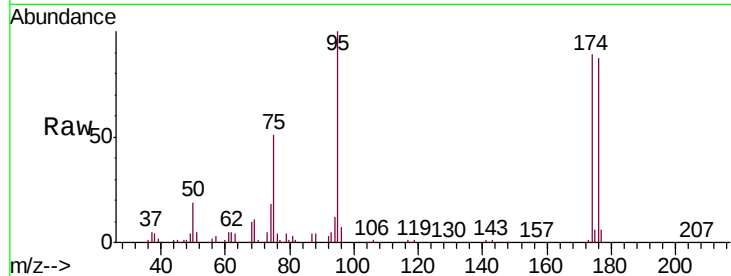




#62
4-Bromofluorobenzene
Concen: 46.455 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

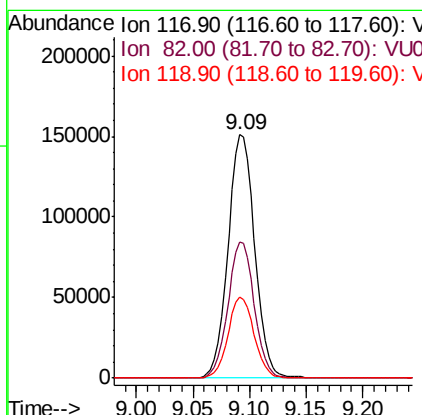
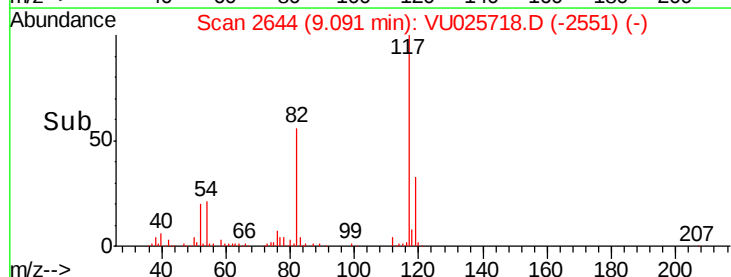
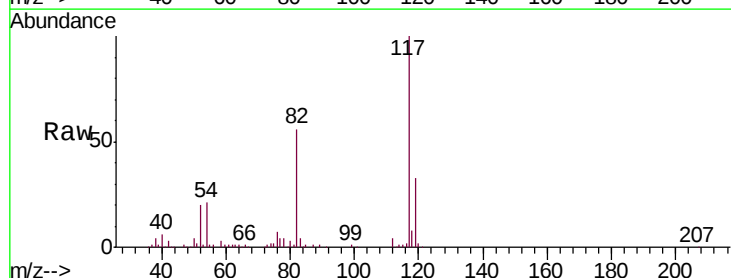
Instrument :
MSVOA_U
ClientSampleId :
1513

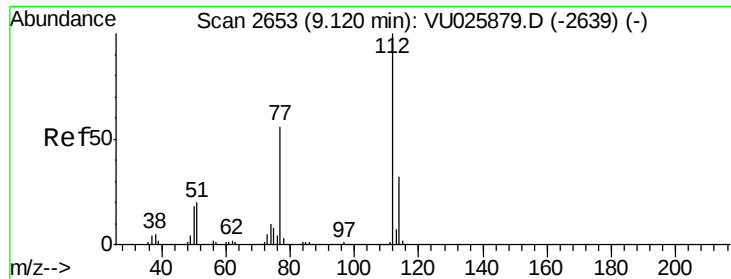
Tgt Ion: 95 Resp: 142602
Ion Ratio Lower Upper
95 100
174 87.7 0.0 172.2
176 85.0 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion: 117 Resp: 248137
Ion Ratio Lower Upper
117 100
82 56.1 46.0 69.0
119 33.1 26.0 39.0

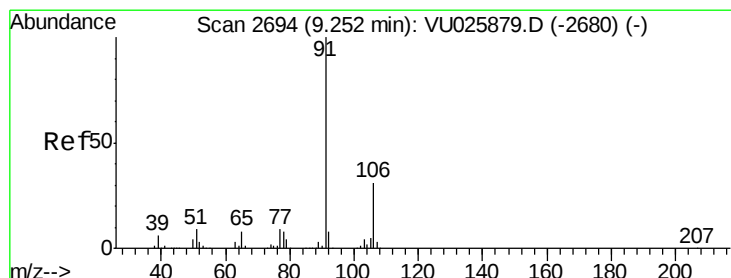
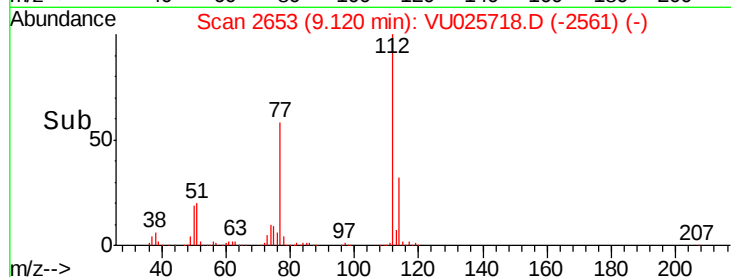
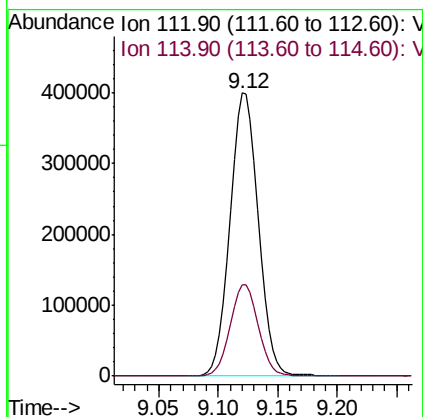
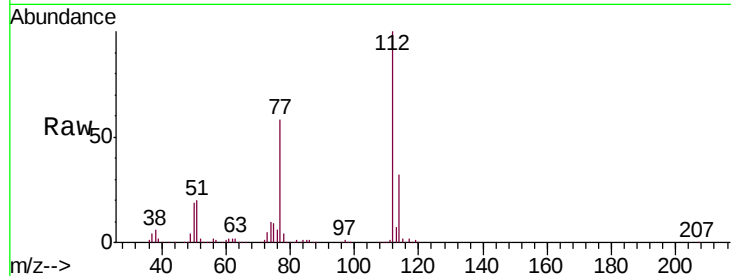




#65
Chlorobenzene
Concen: 103.198 ug/l
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

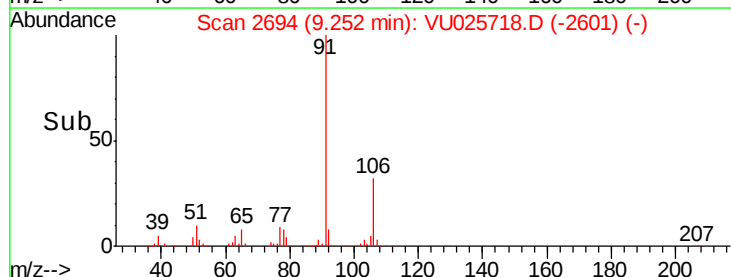
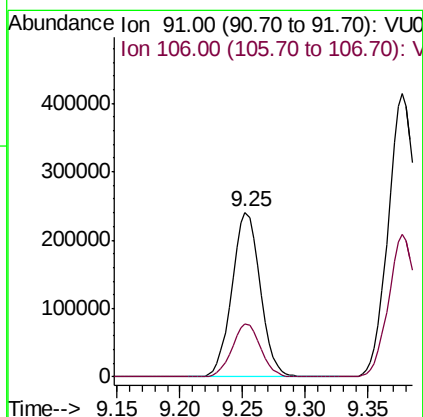
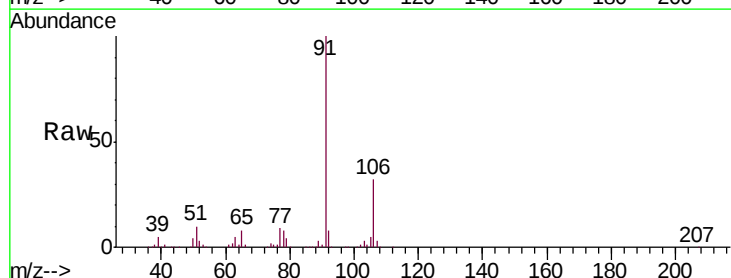
Instrument :
MSVOA_U
ClientSampleId :
1513

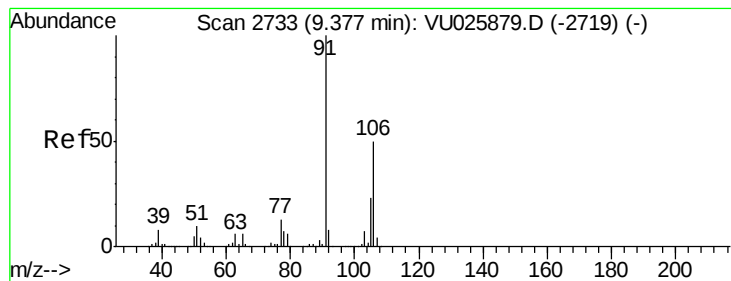
Tgt Ion: 112 Resp: 660213
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.8



#67
Ethyl Benzene
Concen: 35.597 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion: 91 Resp: 377223
Ion Ratio Lower Upper
91 100
106 31.8 25.3 37.9





#68

m/p-Xylenes

Concen: 81.840 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

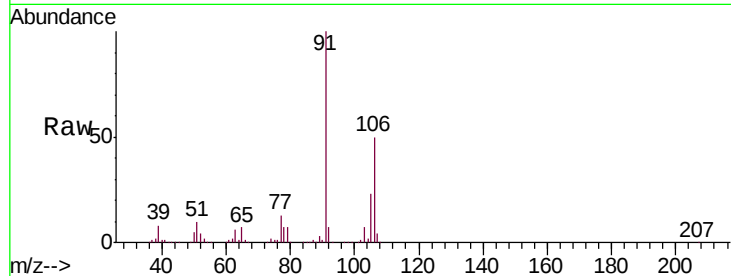
1513

Tgt Ion:106 Resp: 332965

Ion Ratio Lower Upper

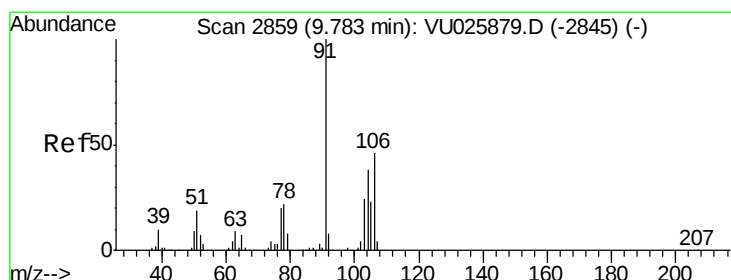
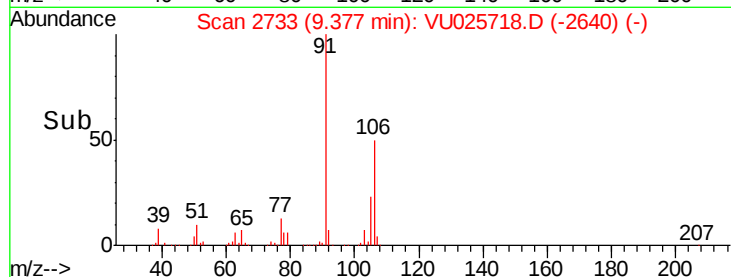
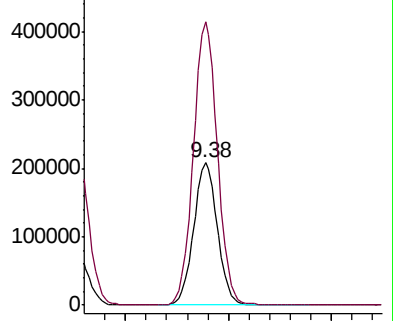
106 100

91 201.6 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#69

o-Xylene

Concen: 84.640 ug/l

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025718.D

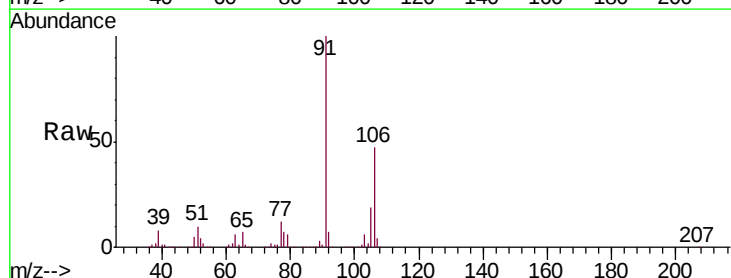
Acq: 30 Jul 2018 13:22

Tgt Ion:106 Resp: 336548

Ion Ratio Lower Upper

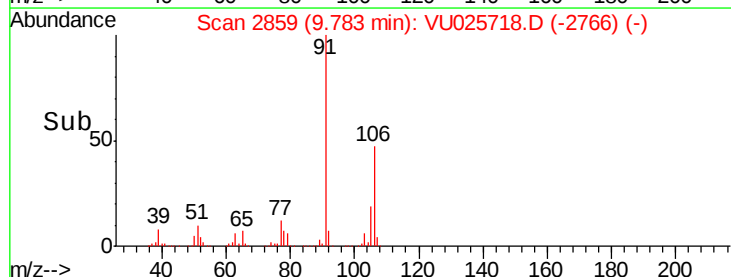
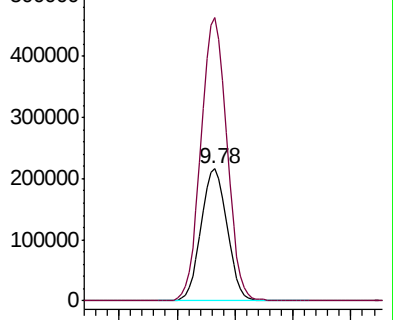
106 100

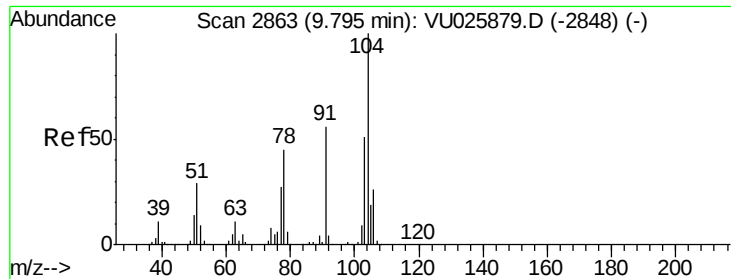
91 213.4 105.3 315.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#70

Styrene

Concen: 2.568 ug/l

RT: 9.78 min Scan# 2859

Delta R.T. -0.01 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

1513

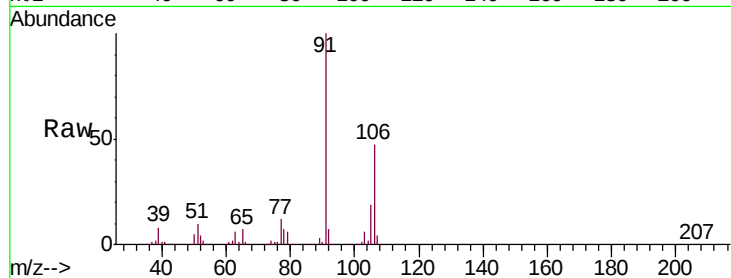
Tgt Ion:104 Resp: 16492

Ion Ratio Lower Upper

104 100

78 298.3 41.6 62.4#

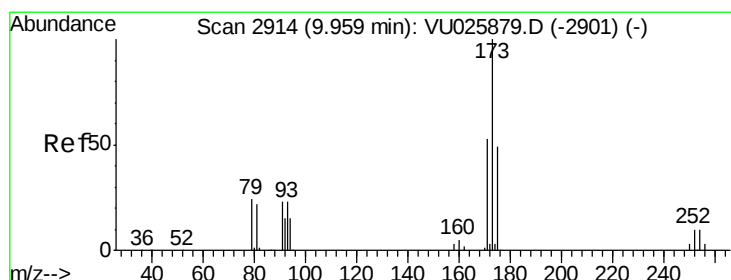
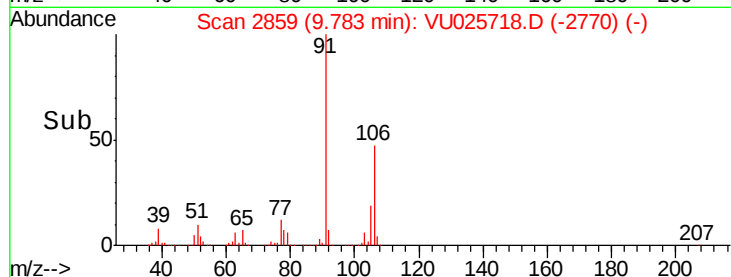
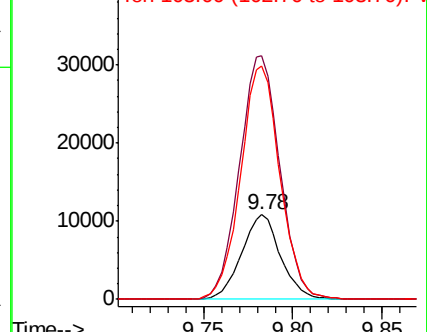
103 279.2 44.6 66.8#



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



#71

Bromoform

Concen: 18.806 ug/l

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

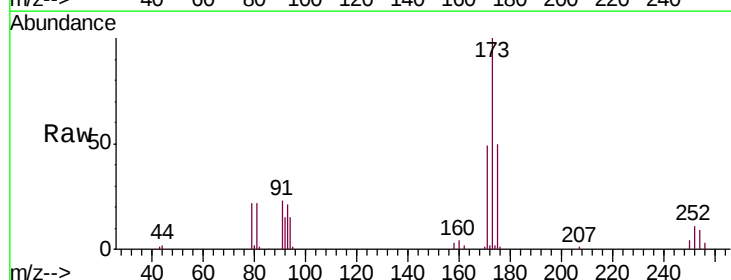
Tgt Ion:173 Resp: 37739

Ion Ratio Lower Upper

173 100

175 48.8 24.0 72.0

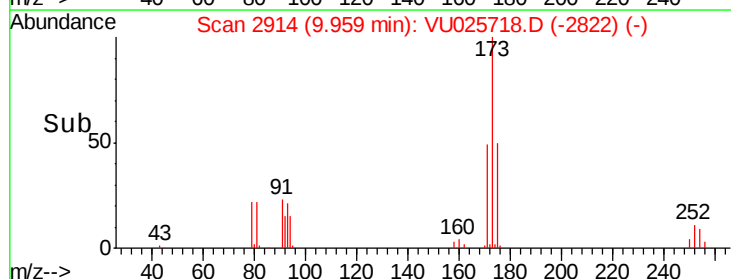
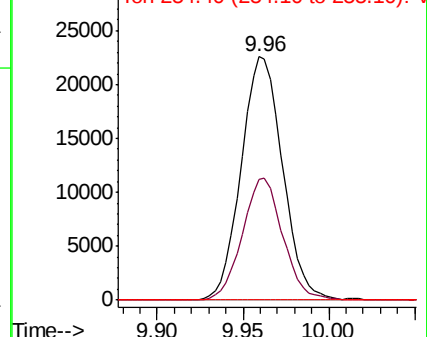
254 0.0 0.0 0.0

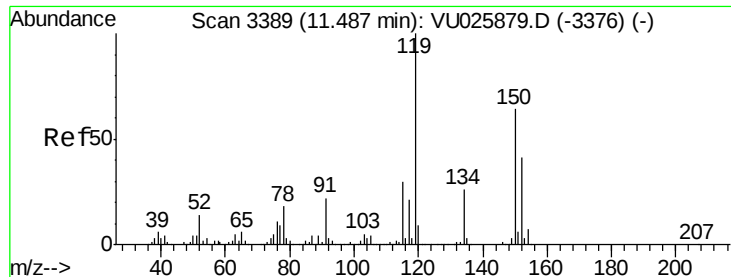


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampleId :

1513

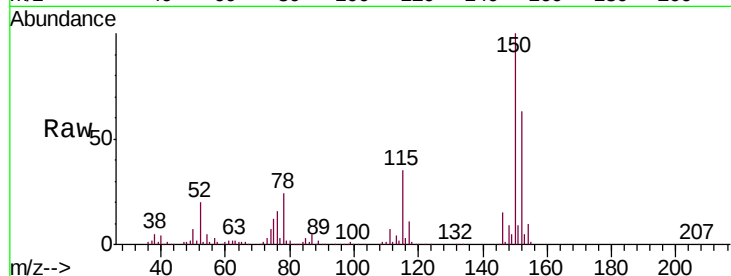
Tgt Ion:152 Resp: 153249

Ion Ratio Lower Upper

152 100

115 56.7 40.1 120.3

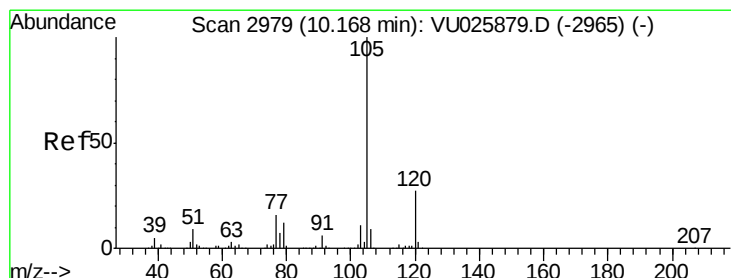
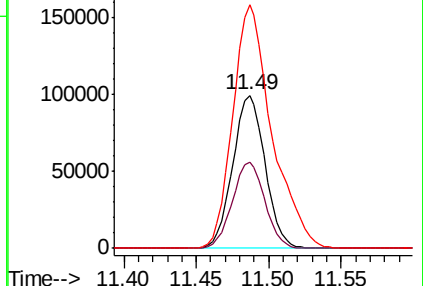
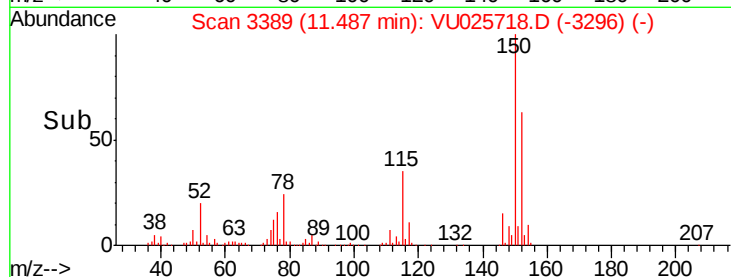
150 192.6 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.234 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025718.D

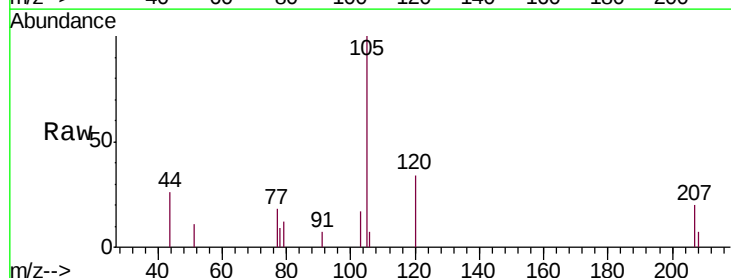
Acq: 30 Jul 2018 13:22

Tgt Ion:105 Resp: 2443

Ion Ratio Lower Upper

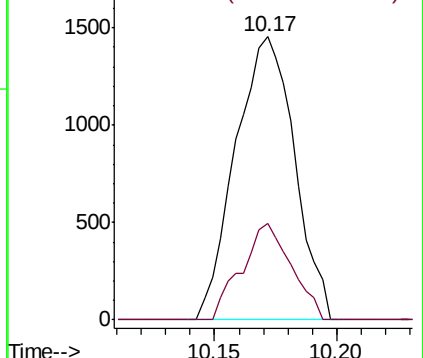
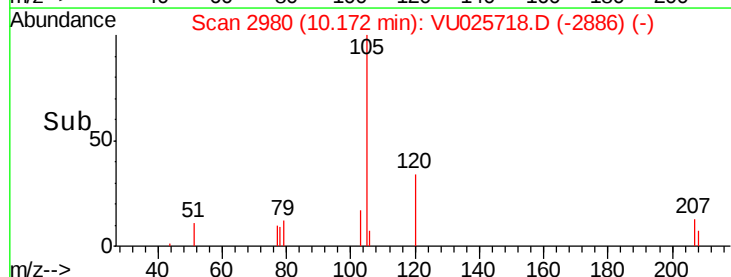
105 100

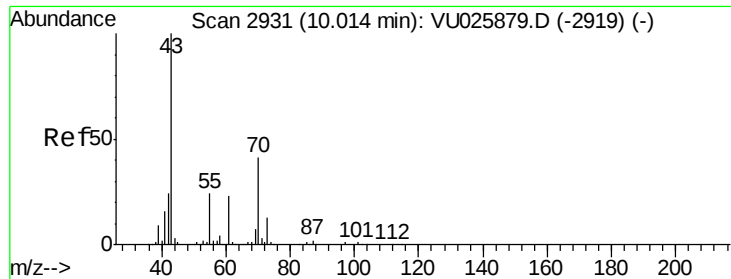
120 28.6 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

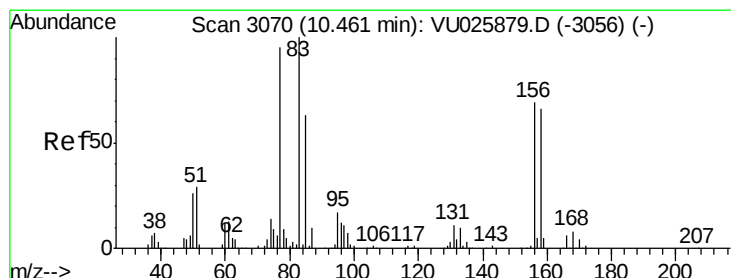
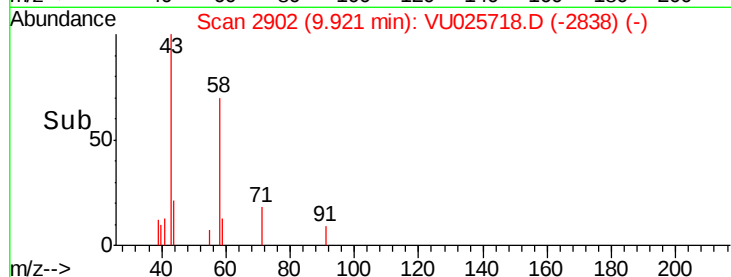
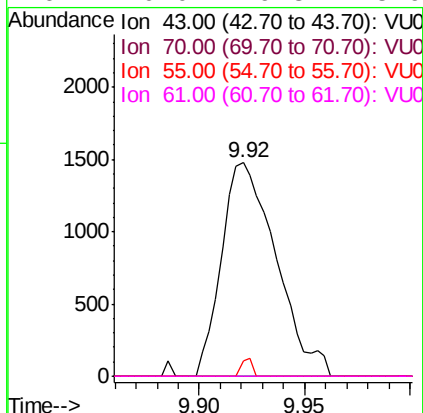
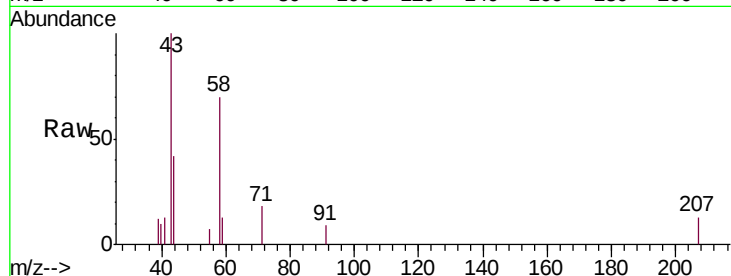




#74
N-ethyl acetate
Concen: 0.622 ug/l
RT: 9.92 min Scan# 2902
Delta R.T. -0.09 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

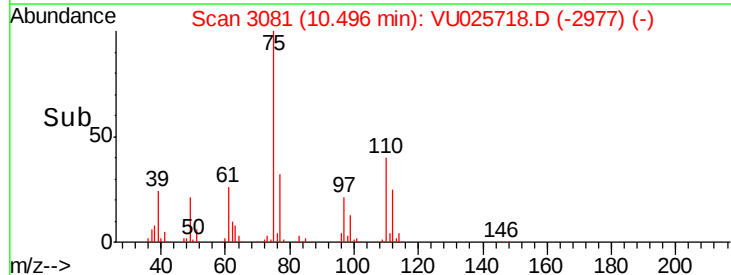
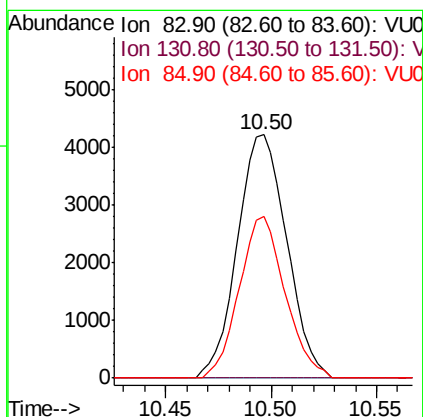
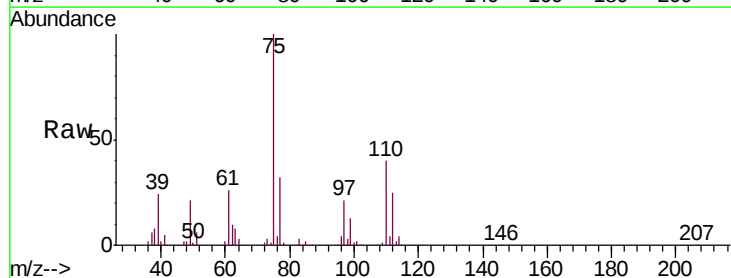
Instrument :
MSVOA_U
ClientSampleId :
1513

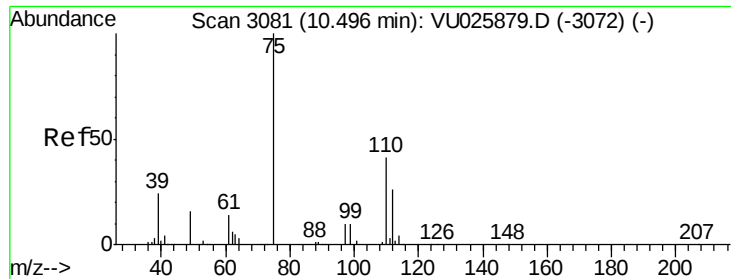
Tgt Ion:	43	Resp:	2656
Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.4	50.2#
55	1.7	19.0	28.6#
61	0.0	19.3	28.9#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.901 ug/l
RT: 10.50 min Scan# 3081
Delta R.T. 0.04 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion:	83	Resp:	6875
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.4#
85	61.8	31.6	94.8

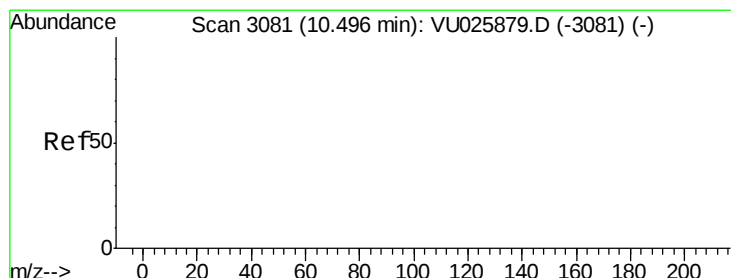
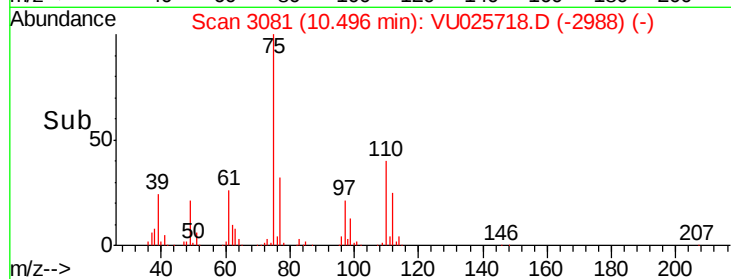
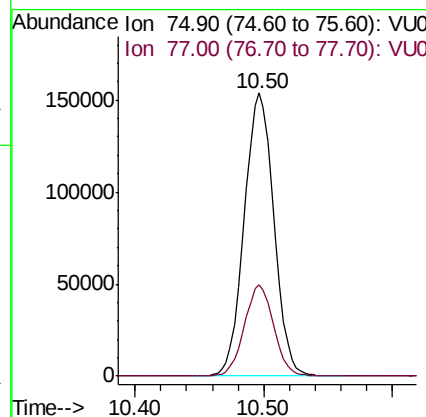
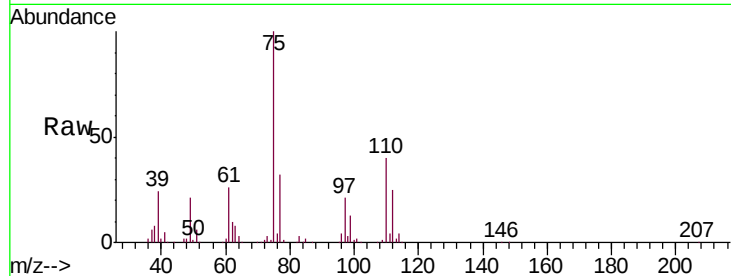




#76
 1,2,3-Trichloropropane
 Concen: 72.850 ug/l
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

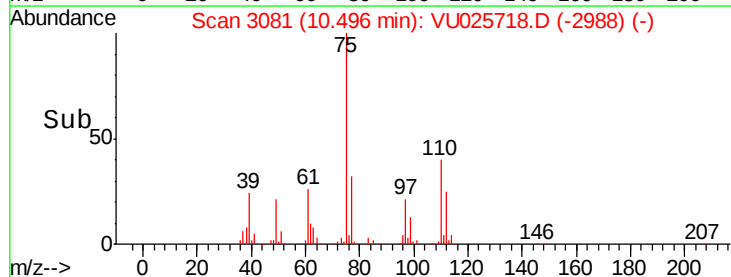
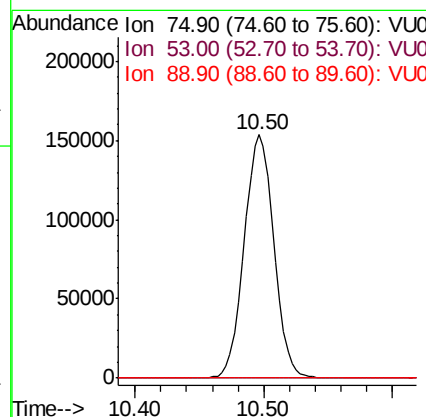
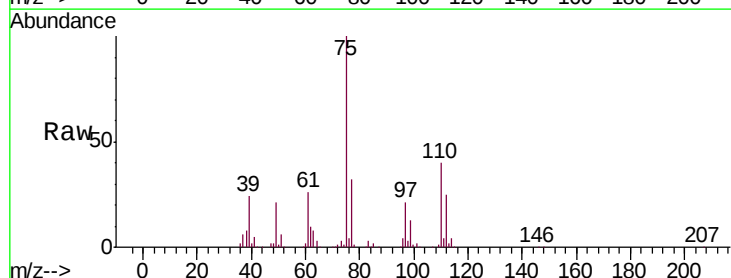
Instrument :
 MSVOA_U
 ClientSampleId :
 1513

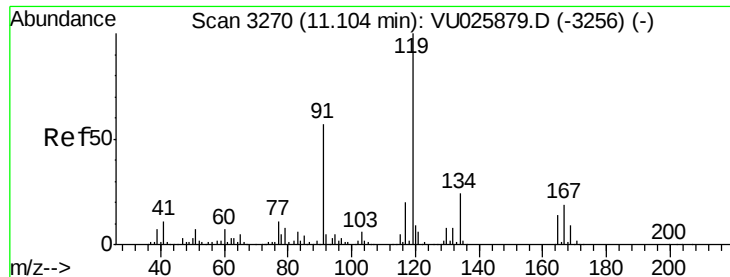
Tgt Ion: 75 Resp: 245983
 Ion Ratio Lower Upper
 75 100
 77 32.0 20.4 61.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 182.671 ug/l
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion: 75 Resp: 245983
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

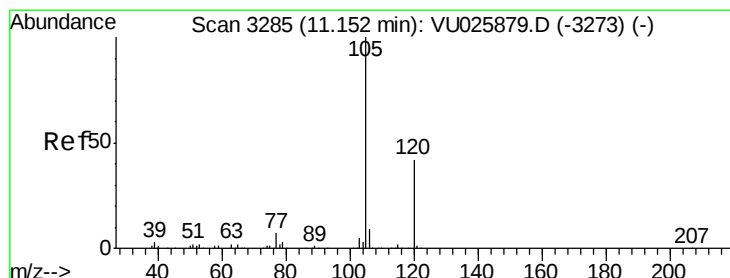
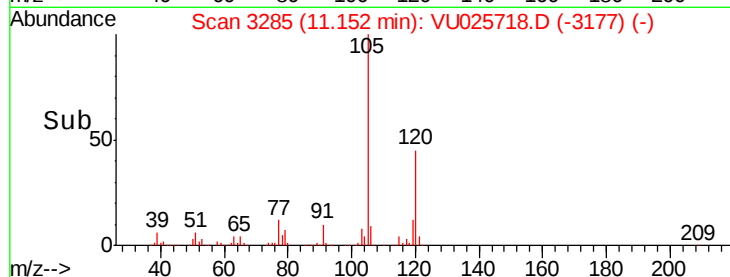
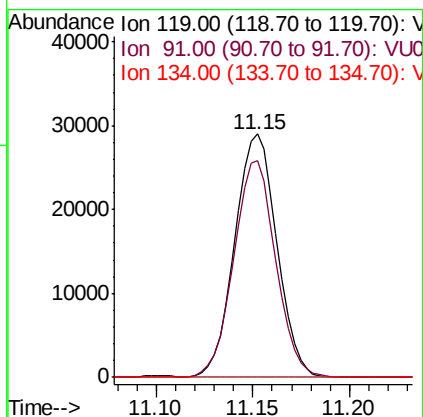
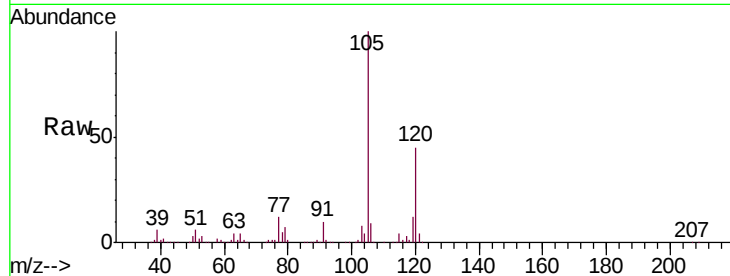




#83
tert-Butylbenzene
Concen: 4.978 ug/l
RT: 11.15 min Scan# 3285
Delta R.T. 0.05 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

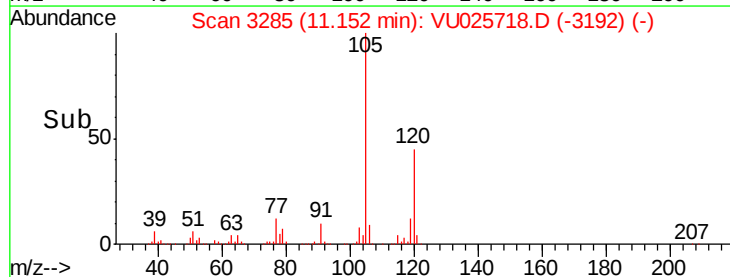
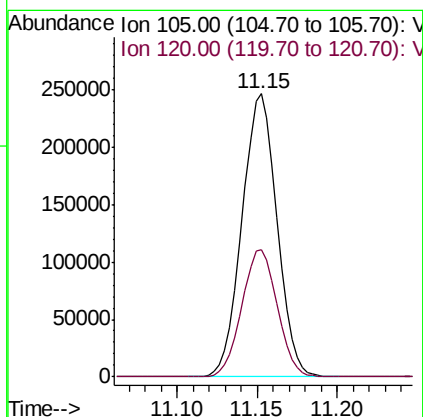
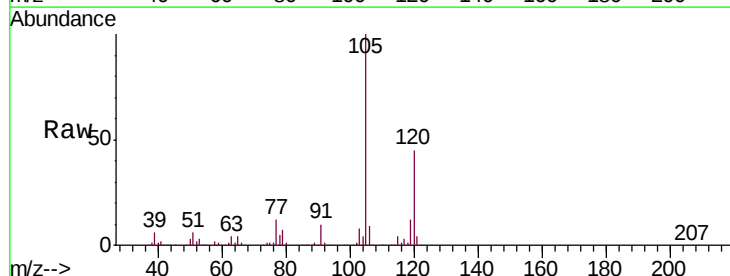
Instrument :
MSVOA_U
ClientSampleId :
1513

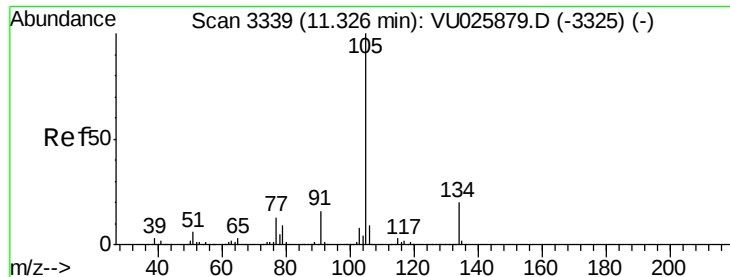
Tgt Ion:119 Resp: 43936
Ion Ratio Lower Upper
119 100
91 88.7 29.7 89.1
134 0.0 11.5 34.5#



#84
1,2,4-Trimethylbenzene
Concen: 40.817 ug/l
RT: 11.15 min Scan# 3285
Delta R.T. -0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion:105 Resp: 367424
Ion Ratio Lower Upper
105 100
120 45.6 22.3 66.8

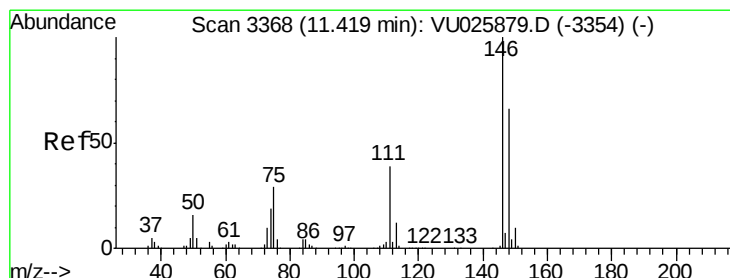
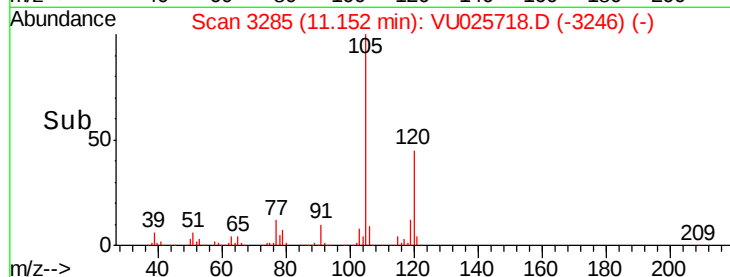
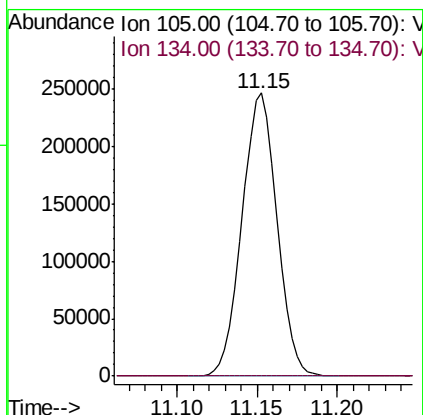
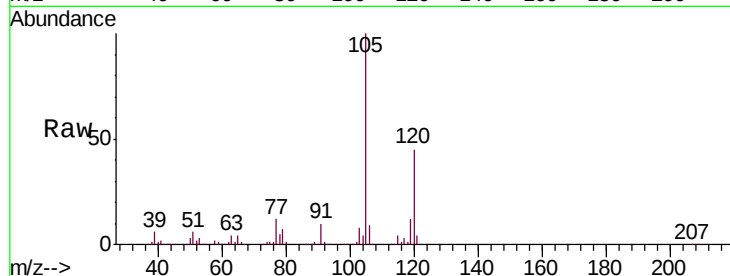




#85
 sec-Butylbenzene
 Concen: 34.098 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. -0.17 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

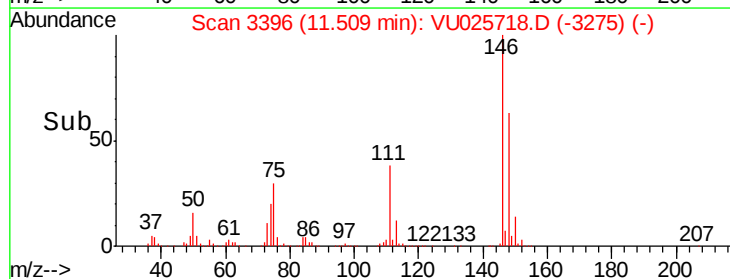
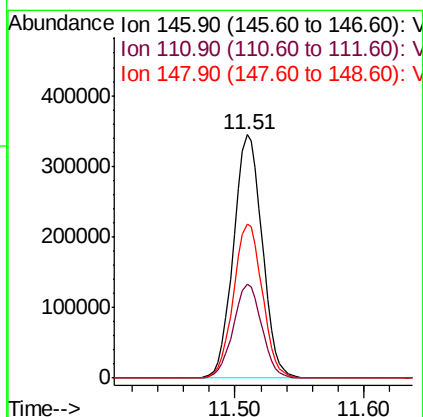
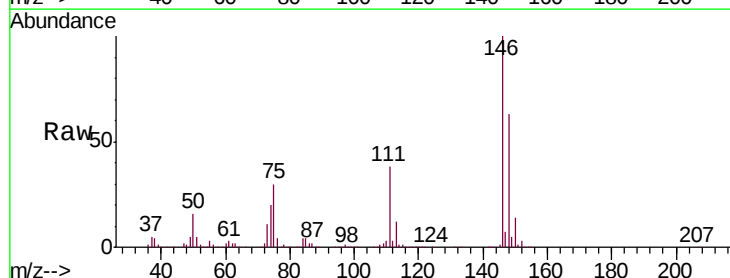
Instrument :
 MSVOA_U
 ClientSampled :
 1513

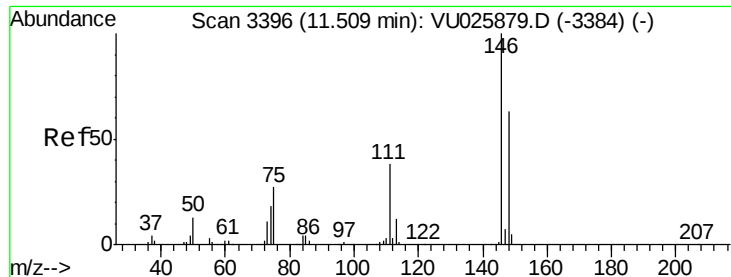
Tgt Ion:105 Resp: 367424
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.8#



#87
 1,3-Dichlorobenzene
 Concen: 99.377 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.09 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion:146 Resp: 532173
 Ion Ratio Lower Upper
 146 100
 111 38.4 19.7 59.1
 148 63.4 32.1 96.3

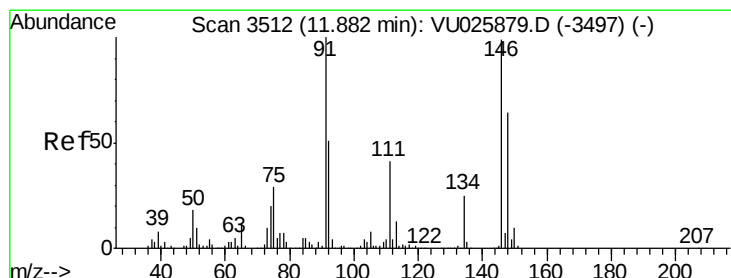
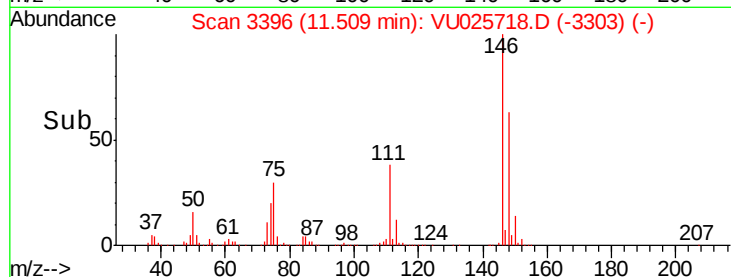
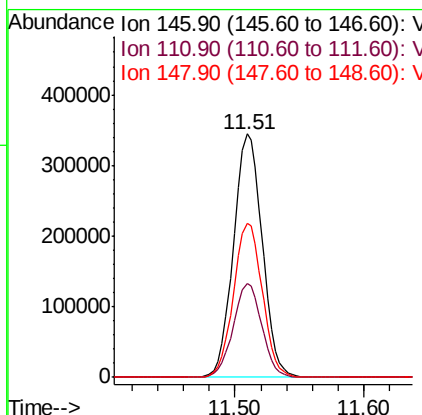
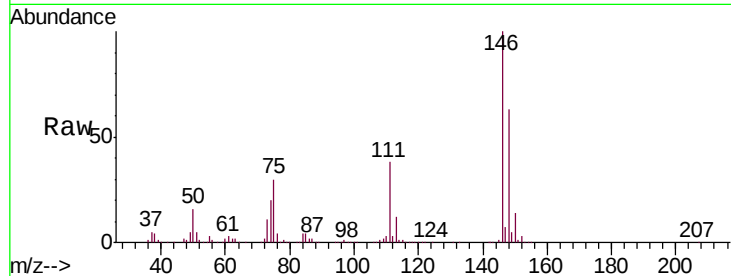




#88
 1,4-Dichlorobenzene
 Concen: 95.334 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

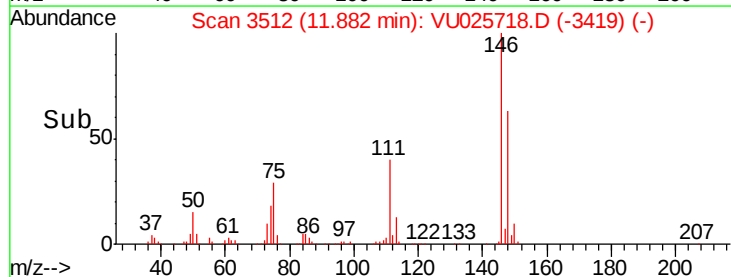
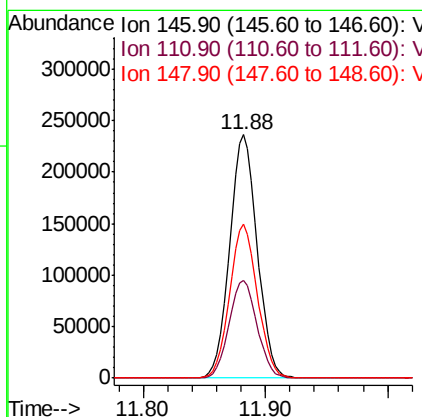
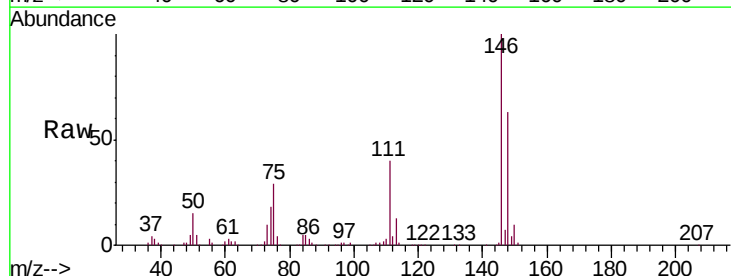
Instrument :
 MSVOA_U
 ClientSampleId :
 1513

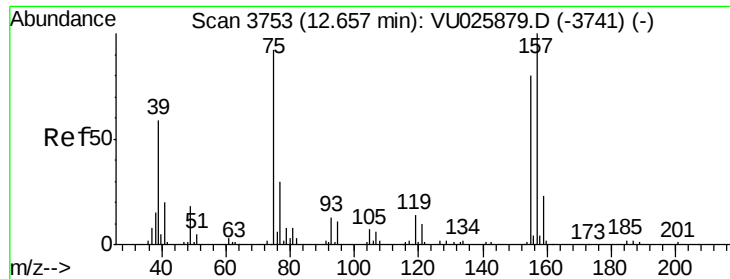
Tgt Ion:146 Resp: 532173
 Ion Ratio Lower Upper
 146 100
 111 38.4 19.4 58.1
 148 63.4 31.7 95.1



#91
 1,2-Dichlorobenzene
 Concen: 70.697 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025718.D
 Acq: 30 Jul 2018 13:22

Tgt Ion:146 Resp: 371090
 Ion Ratio Lower Upper
 146 100
 111 40.8 20.6 61.8
 148 63.8 31.5 94.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 17.159 ug/l

RT: 12.66 min Scan# 3753

Delta R.T. -0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

Instrument :

MSVOA_U

ClientSampled :

1513

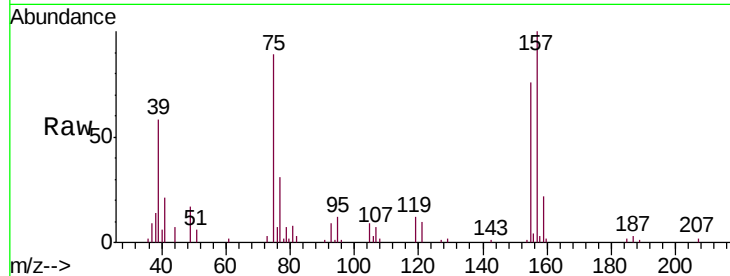
Tgt Ion: 75 Resp: 14714

Ion Ratio Lower Upper

75 100

155 88.9 44.5 133.3

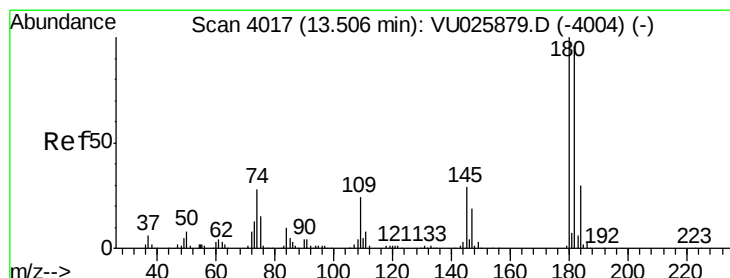
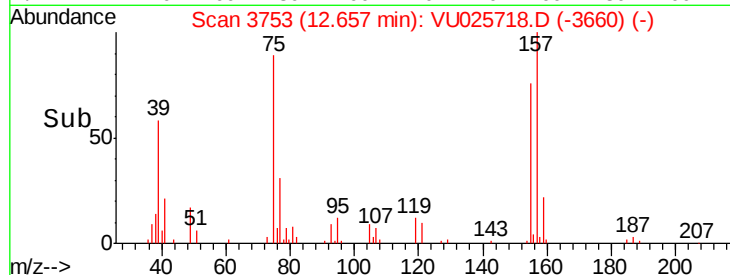
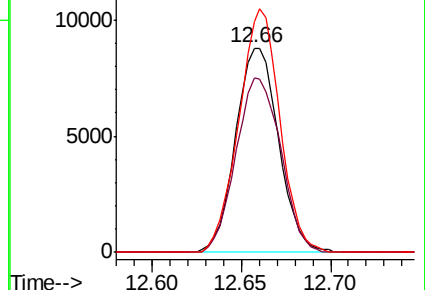
157 113.7 57.0 170.8



Abundance Ion 74.90 (74.60 to 75.60): VU025718.D (-3660) (-)

Ion 154.80 (154.50 to 155.50): VU025718.D (-3660) (-)

Ion 156.80 (156.50 to 157.50): VU025718.D (-3660) (-)



#93

1,2,4-Trichlorobenzene

Concen: 107.082 ug/l

RT: 13.51 min Scan# 4017

Delta R.T. 0.00 min

Lab File: VU025718.D

Acq: 30 Jul 2018 13:22

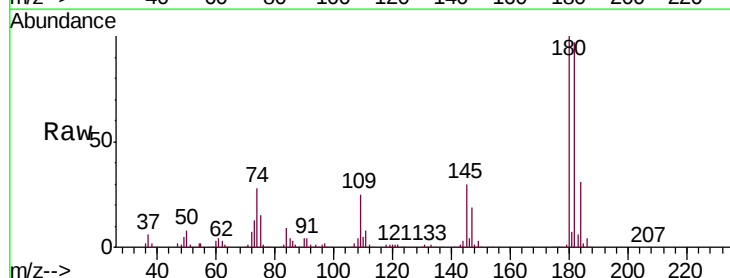
Tgt Ion: 180 Resp: 379357

Ion Ratio Lower Upper

180 100

182 96.3 47.3 141.9

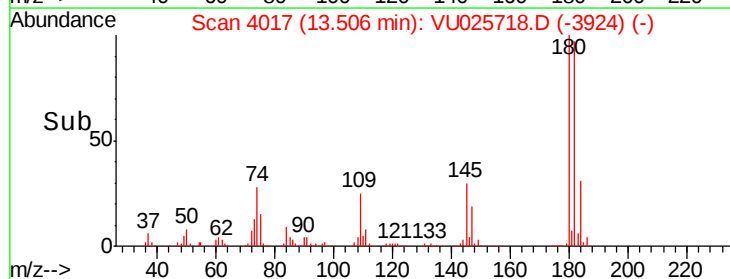
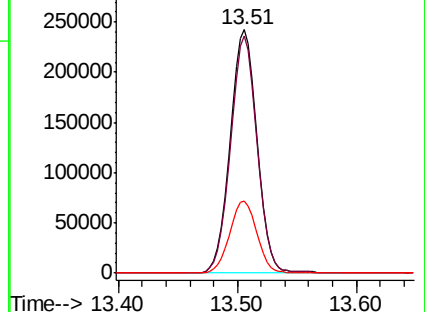
145 30.1 14.9 44.7

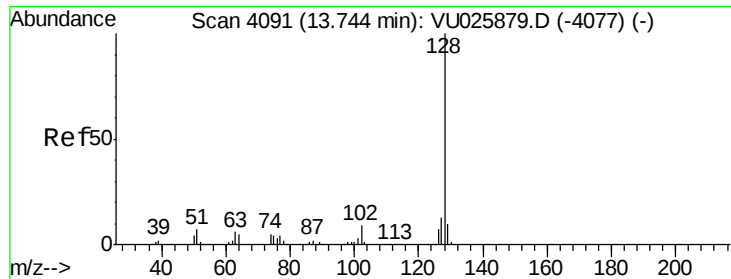


Abundance Ion 179.80 (179.50 to 180.50): VU025718.D (-3924) (-)

Ion 181.80 (181.50 to 182.50): VU025718.D (-3924) (-)

Ion 144.80 (144.50 to 145.50): VU025718.D (-3924) (-)

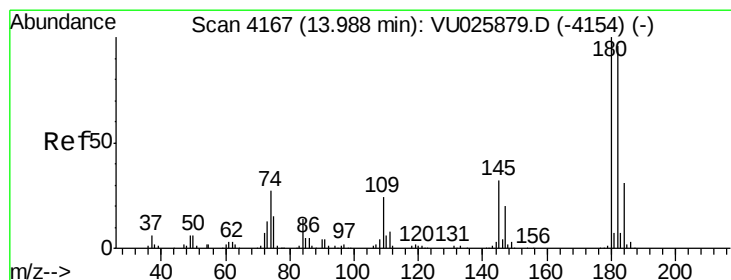
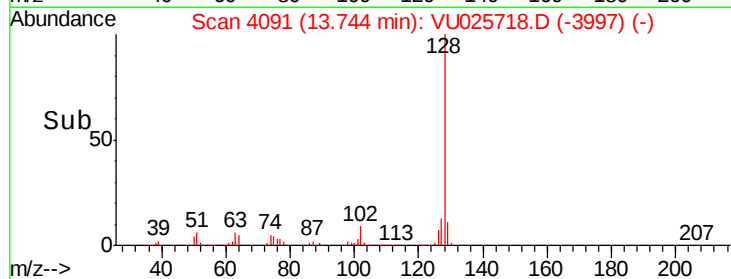
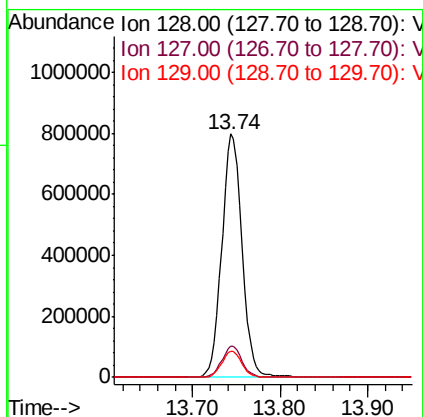
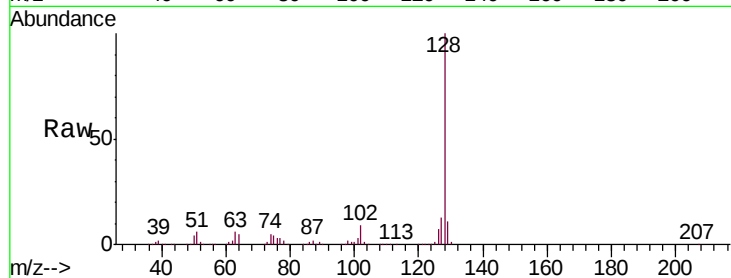




#95
Naphthalene
Concen: 111.132 ug/l
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Instrument :
MSVOA_U
ClientSampleId :
1513

Tgt Ion:128 Resp: 1282457
Ion Ratio Lower Upper
128 100
127 12.8 10.5 15.7
129 10.8 8.3 12.5



#96
1,2,3-Trichlorobenzene
Concen: 0.811 ug/l
RT: 13.99 min Scan# 4168
Delta R.T. -0.00 min
Lab File: VU025718.D
Acq: 30 Jul 2018 13:22

Tgt Ion:180 Resp: 2866
Ion Ratio Lower Upper
180 100
182 95.9 47.8 143.3
145 25.8 15.6 46.8

