

Data File : VU032220.D
Acq On : 22 May 2019 14:11
Operator : JC/SP
Sample : VSTD02011
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD02011

Quant Time: May 23 01:08:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 01:03:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	409934	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	404098	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	203648	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	446878	13.89	ug/L	0.00
7) Chloroethane-d5	1.68	69	404572	14.41	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	824816	15.72	ug/L	0.00
20) 2-Butanone-d5	4.20	46	1382107	206.72	ug/L	0.00
24) Chloroform-d	4.64	84	1168034	19.30	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	615895	19.49	ug/L	0.00
32) Benzene-d6	5.33	84	2371289	19.50	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	767834	21.21	ug/L	0.00
41) Toluene-d8	7.56	98	2442806	22.33	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	325571	24.33	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	1339175	231.45	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	771266	24.95	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	1115485	24.47	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	343201	17.252 ug/L	98
3) Chloromethane	1.32	50	315801	16.340 ug/L	98
5) Vinyl chloride	1.40	62	345140	17.009 ug/L	99
6) Bromomethane	1.63	94	212518	17.985 ug/L	96
8) Chloroethane	1.69	64	183607	14.583 ug/L	98
9) Trichlorofluoromethane	1.88	101	447996	17.893 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	283621	17.230 ug/L	98
12) 1,1-Dichloroethene	2.28	96	283112	17.557 ug/L	94
13) Acetone	2.34	43	371259	169.391 ug/L	98
14) Carbon disulfide	2.47	76	860977	16.743 ug/L	98
15) Methyl Acetate	2.62	43	97780	15.670 ug/L	91
16) Methylene chloride	2.69	84	293665	15.251 ug/L	98
17) Methyl tert-butyl Ether	3.00	73	648781	17.147 ug/L	99
18) trans-1,2-Dichloroethene	2.97	96	299511	17.440 ug/L	95
19) 1,1-Dichloroethane	3.43	63	481649	17.576 ug/L	96
21) 2-Butanone	4.28	43	636423	201.542 ug/L	98
22) cis-1,2-Dichloroethene	4.22	96	313154	18.424 ug/L	99
23) Bromochloromethane	4.54	128	133091	17.964 ug/L	96
25) Chloroform	4.67	83	505978	17.230 ug/L	89
27) 1,2-Dichloroethane	5.40	62	304856	18.052 ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	415461	17.845 ug/L	98
30) Cyclohexane	4.98	56	430962	20.157 ug/L	99
31) Carbon tetrachloride	5.13	117	369754	18.656 ug/L	100
33) Benzene	5.38	78	1161280	19.085 ug/L	100
34) Trichloroethene	6.18	95	295104	17.947 ug/L	96
35) Methylcyclohexane	6.41	83	479334	20.107 ug/L	98
37) 1,2-Dichloropropane	6.43	63	273307	18.409 ug/L	99
38) Bromodichloromethane	6.75	83	351488	18.475 ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	414256	20.075 ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1492165	213.886 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1260687	19.653	ug/L	95
44) trans-1,3-Dichloropropene	7.87	75	339899	21.186	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	209931	19.105	ug/L	97
47) Tetrachloroethene	8.22	164	248673	19.938	ug/L	95
48) 2-Hexanone	8.36	43	1151954	213.969	ug/L	98
49) Dibromochloromethane	8.47	129	241729	18.906	ug/L	96
50) 1,2-Dibromoethane	8.58	107	200458	19.050	ug/L #	99
51) Chlorobenzene	9.11	112	768128	18.919	ug/L	100
52) Ethylbenzene	9.24	91	1318915	20.569	ug/L	97
53) m,p-Xylene	9.37	106	515247	21.097	ug/L	99
54) o-Xylene	9.77	106	512097	21.835	ug/L	99
55) Styrene	9.79	104	900081	22.677	ug/L	99
56) Isopropylbenzene	10.16	105	1303184	21.785	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	252487	18.514	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	175325	18.576	ug/L	93
61) Bromoform	9.95	173	141758	18.625	ug/L	96
62) 1,3-Dichlorobenzene	11.41	146	600557	18.986	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	618909	18.619	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	605620	18.732	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	38634	18.643	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	490077	20.590	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	391653	23.780	ug/L	99
69) Naphthalene	13.74	128	648672	25.962	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	378255	22.647	ug/L	98

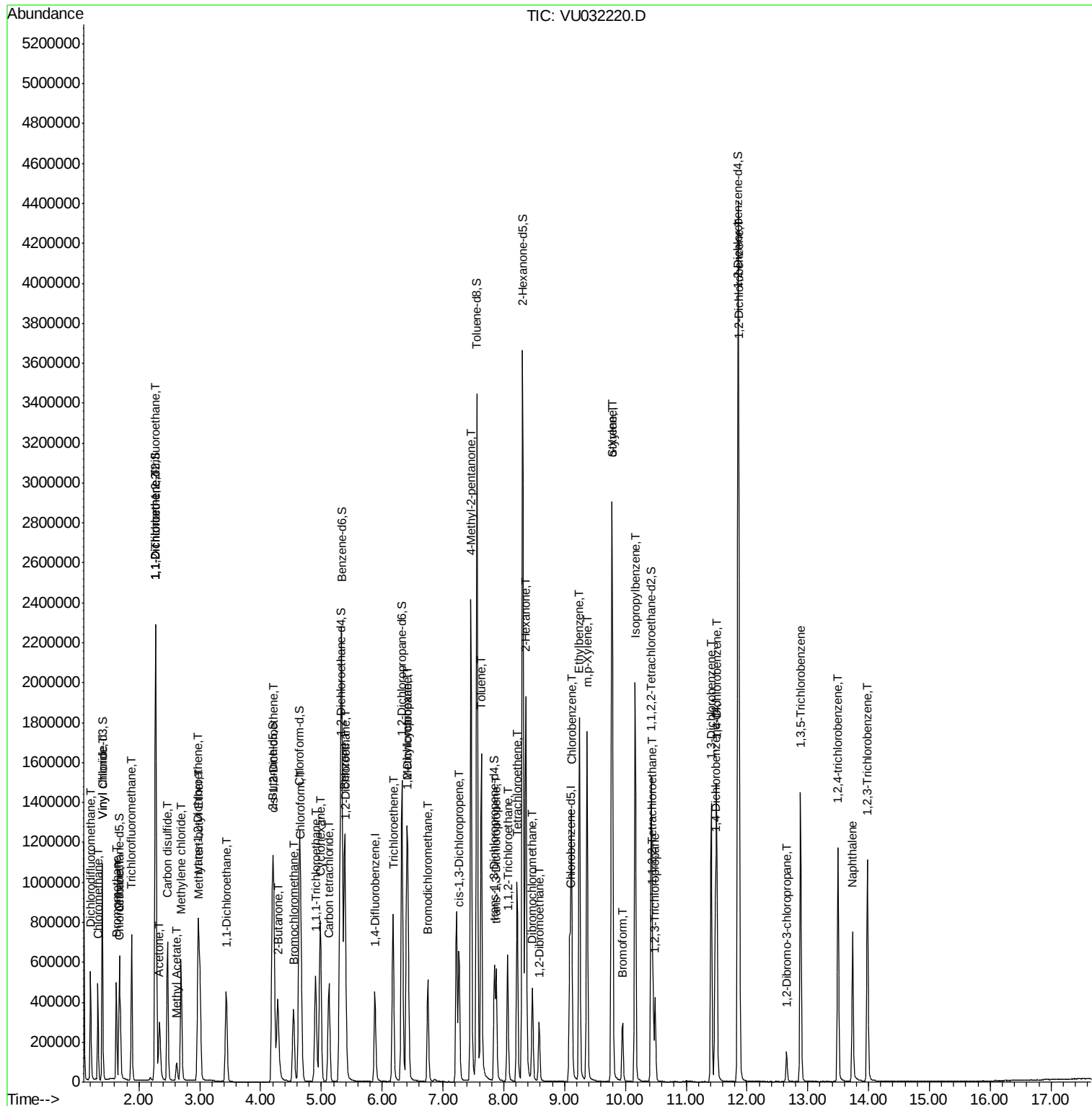
(#) = qualifier out of range (m) = manual integration (+) = signals summed

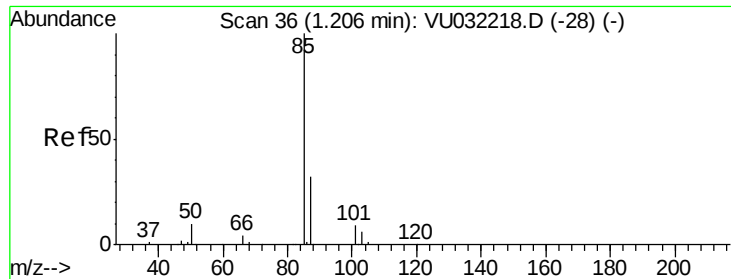
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#2

Dichlorodifluoromethane

Concen: 17.252 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

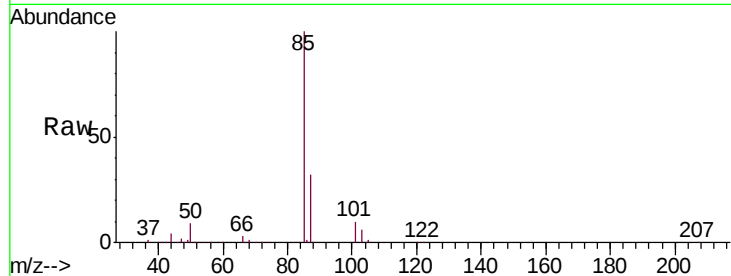
VSTD02011

Tgt Ion: 85 Resp: 343201

Ion Ratio Lower Upper

85 100

87 32.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU032218.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032218.D (-28) (-)

1.21

300000

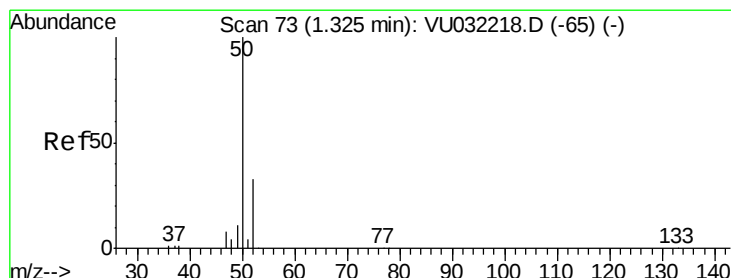
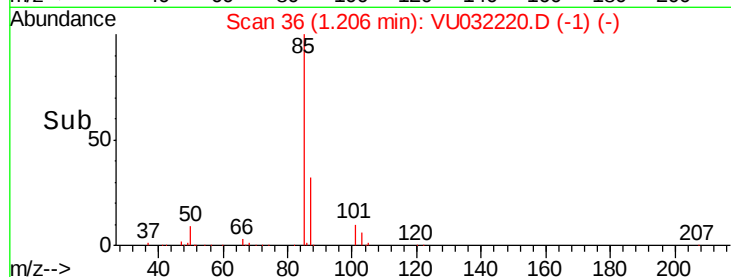
200000

100000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 16.340 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032220.D

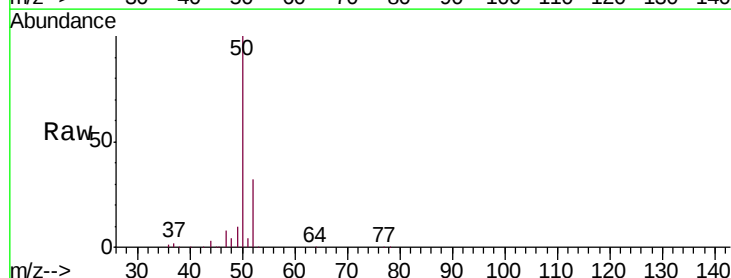
Acq: 22 May 2019 14:11

Tgt Ion: 50 Resp: 315801

Ion Ratio Lower Upper

50 100

52 32.4 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032218.D (-65) (-)

Ion 52.05 (51.75 to 52.75): VU032218.D (-65) (-)

1.32

300000

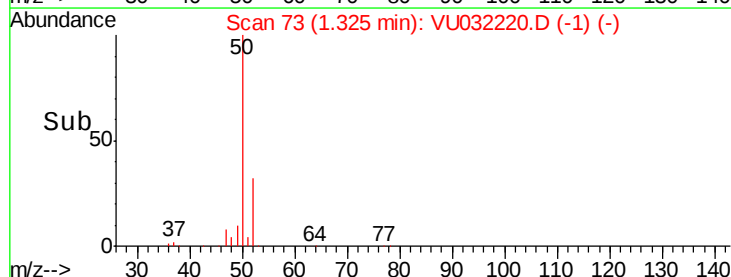
200000

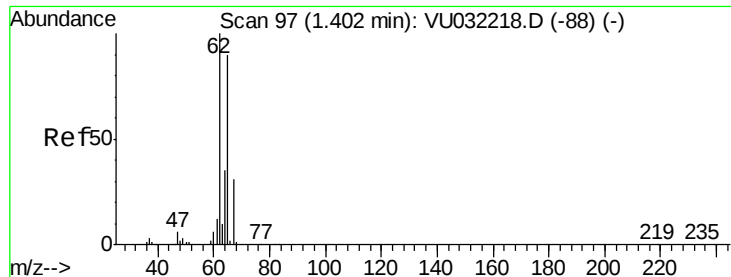
100000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 17.009 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

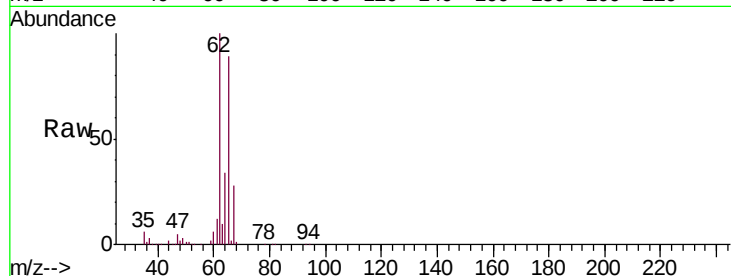
VSTD02011

Tgt Ion: 62 Resp: 345140

Ion Ratio Lower Upper

62 100

64 34.0 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU032220.D (-4) (-)

Ion 64.10 (63.80 to 64.80): VU032220.D (-4) (-)

1.40

300000

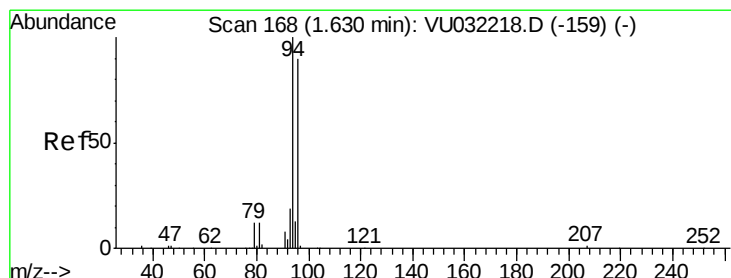
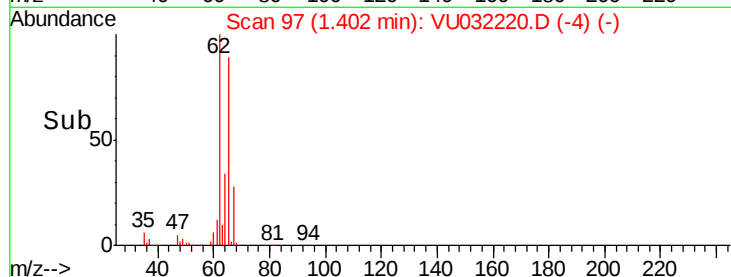
200000

100000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 17.985 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU032220.D

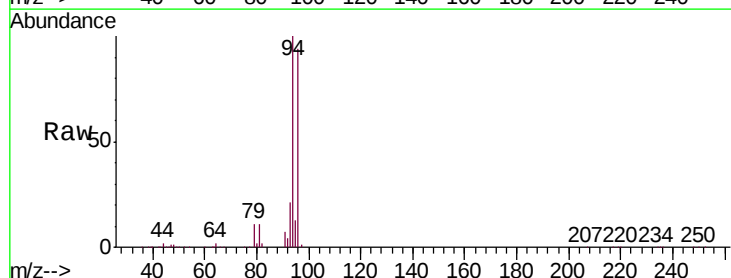
Acq: 22 May 2019 14:11

Tgt Ion: 94 Resp: 212518

Ion Ratio Lower Upper

94 100

96 94.1 63.0 117.0



Abundance Ion 94.00 (93.70 to 94.70): VU032220.D (-75) (-)

Ion 96.00 (95.70 to 96.70): VU032220.D (-75) (-)

1.63

200000

150000

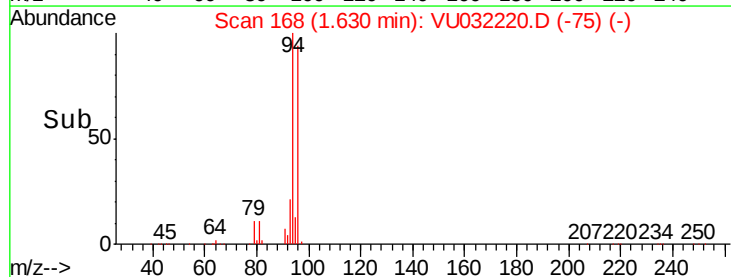
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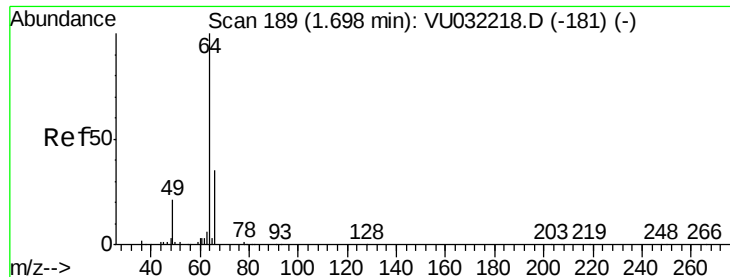
50000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 14.583 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

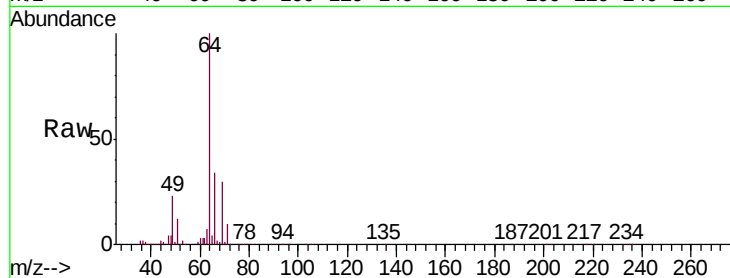
VSTD02011

Tgt Ion: 64 Resp: 183607

Ion Ratio Lower Upper

64 100

66 33.9 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU032220.D (-181) (-)

Ion 66.05 (65.75 to 66.75): VU032220.D (-181) (-)

1.69

150000

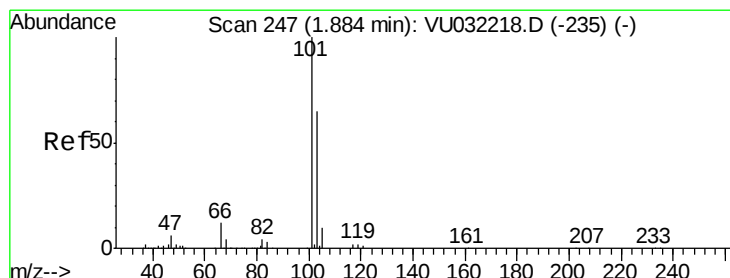
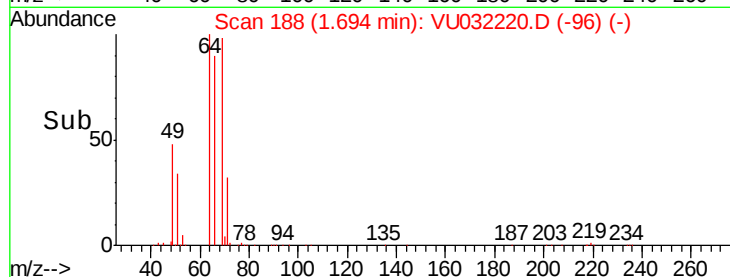
100000

50000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 17.893 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU032220.D

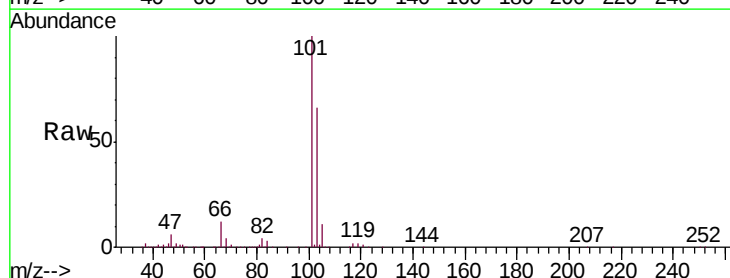
Acq: 22 May 2019 14:11

Tgt Ion: 101 Resp: 447996

Ion Ratio Lower Upper

101 100

103 64.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU032220.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032220.D (-235) (-)

1.88

300000

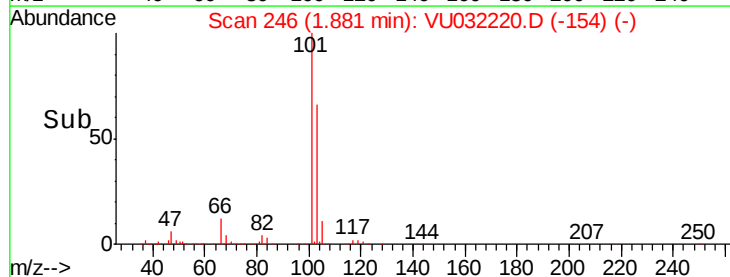
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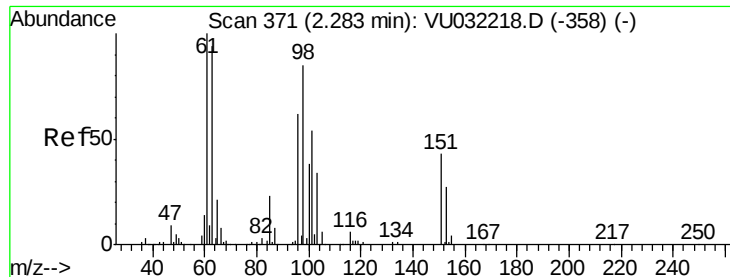
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 17.230 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

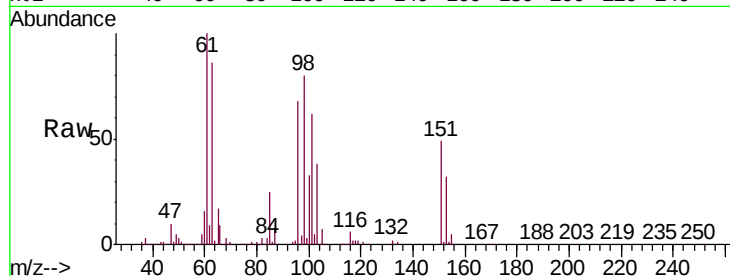
Tgt Ion:101 Resp: 283621

Ion Ratio Lower Upper

101 100

85 40.2 34.2 51.4

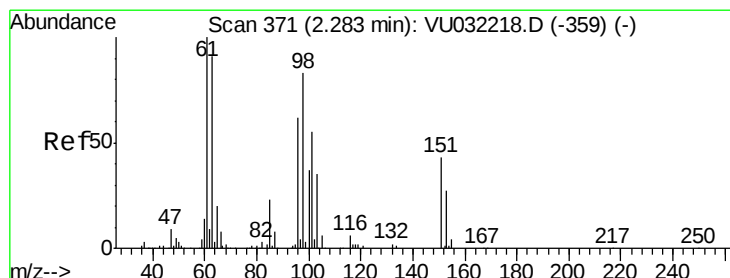
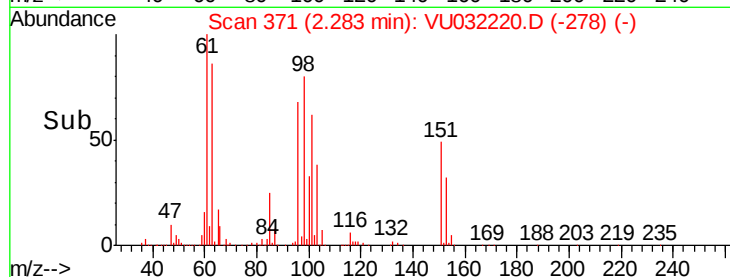
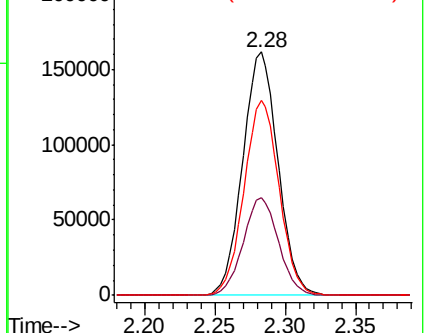
151 79.7 64.4 96.6



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



#12

1,1-Dichloroethene

Concen: 17.557 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

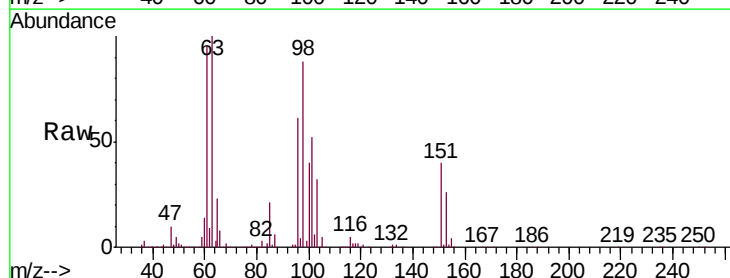
Tgt Ion: 96 Resp: 283112

Ion Ratio Lower Upper

96 100

61 155.1 113.8 211.3

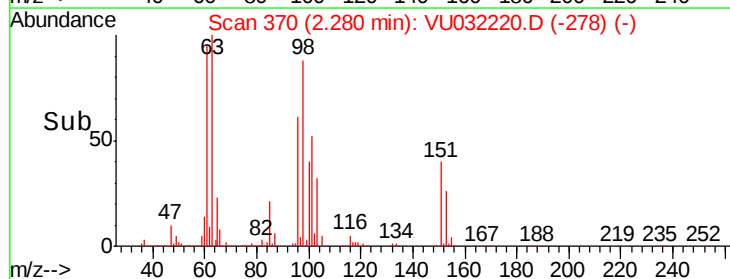
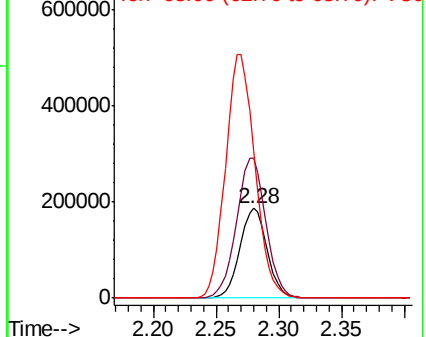
63 163.4 108.8 202.2

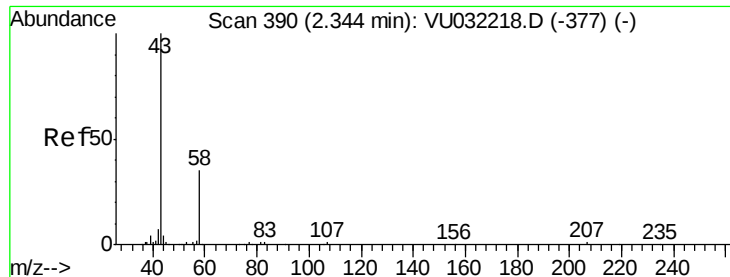


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 169.391 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.01 min

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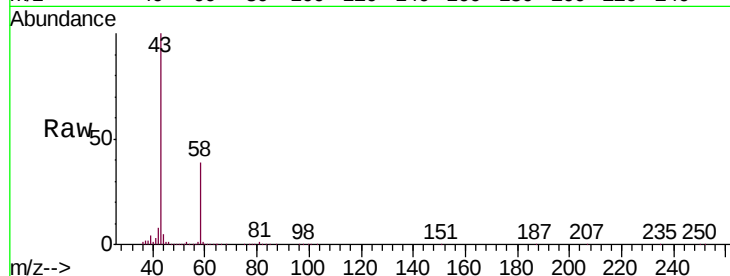
VSTD02011

Tgt Ion: 43 Resp: 371259

Ion Ratio Lower Upper

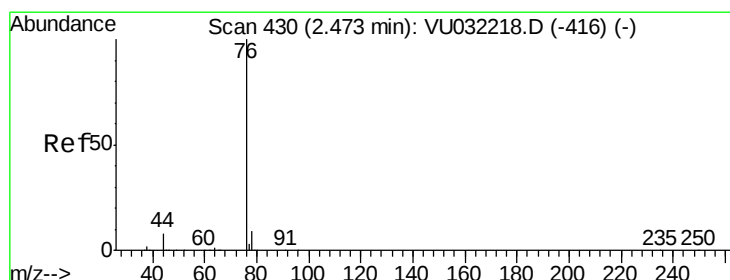
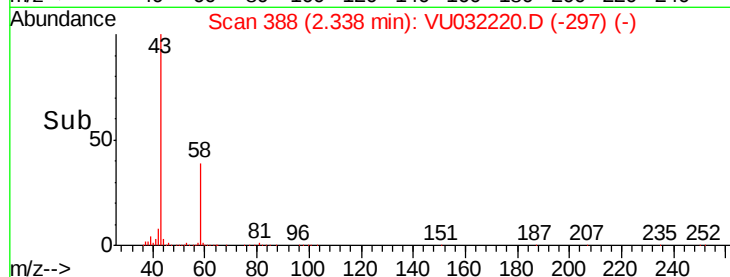
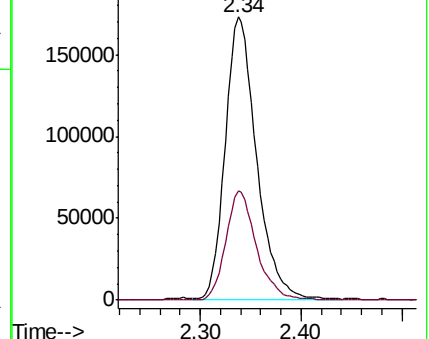
43 100

58 37.6 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU032218.D (-377) (-)

Ion 58.05 (57.75 to 58.75): VU032218.D (-377) (-)



#14

Carbon disulfide

Concen: 16.743 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032220.D

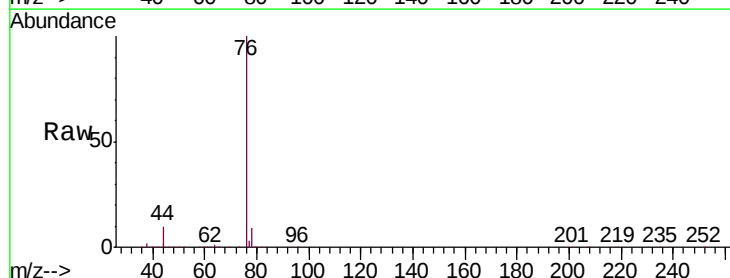
Acq: 22 May 2019 14:11

Tgt Ion: 76 Resp: 860977

Ion Ratio Lower Upper

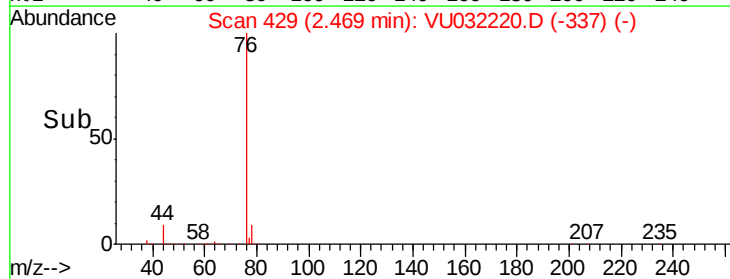
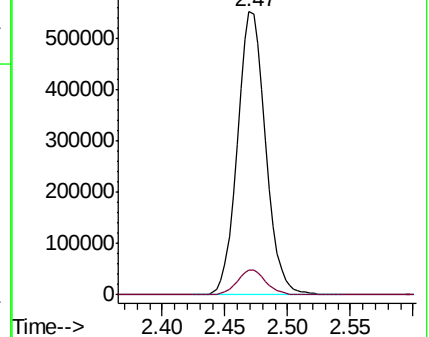
76 100

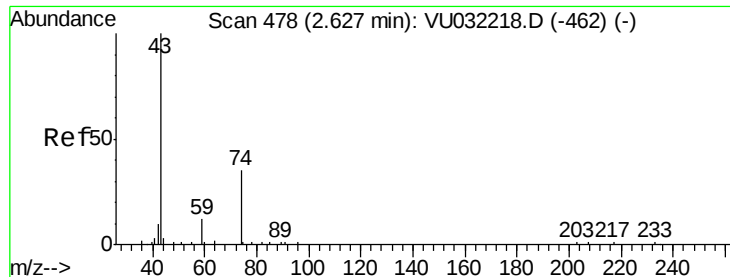
78 8.7 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU032218.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032218.D (-416) (-)





#15

Methyl Acetate

Concen: 15.670 ug/L

RT: 2.62 min Scan# 476

Delta R.T. -0.01 min

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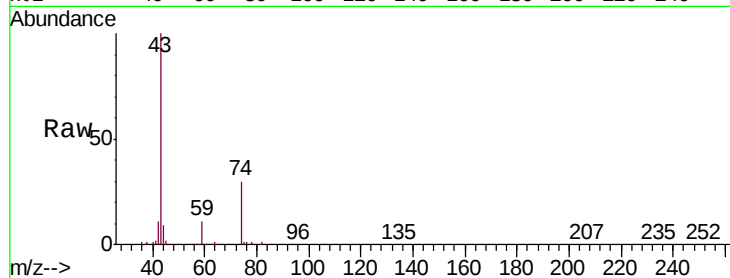
VSTD02011

Tgt Ion: 43 Resp: 97780

Ion Ratio Lower Upper

43 100

74 29.2 27.3 40.9



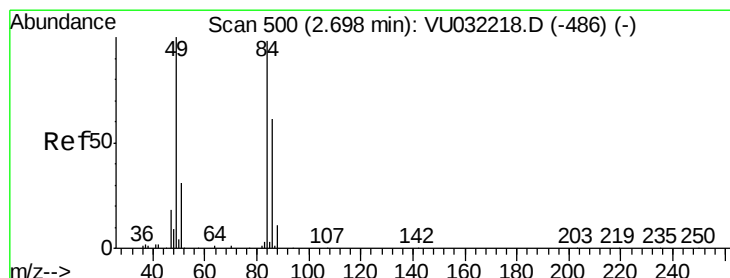
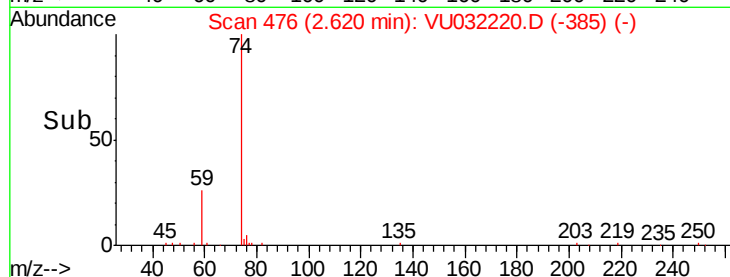
Abundance Ion 43.05 (42.75 to 43.75): VU032220.D (-385) (-)

Ion 74.05 (73.75 to 74.75): VU032220.D (-385) (-)

Time-->

2.55 2.60 2.65 2.70

2.62



#16

Methylene chloride

Concen: 15.251 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

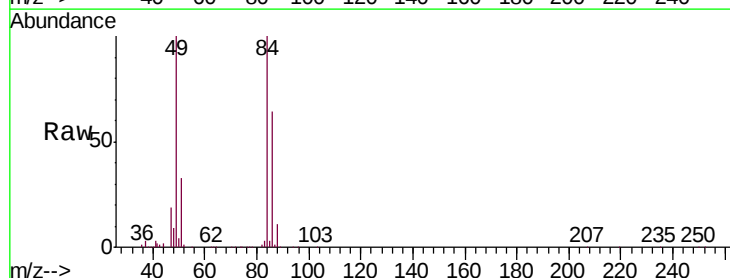
Tgt Ion: 84 Resp: 293665

Ion Ratio Lower Upper

84 100

86 64.1 43.6 81.0

49 100.5 71.1 132.1



Abundance Ion 84.05 (83.75 to 84.75): VU032220.D (-407) (-)

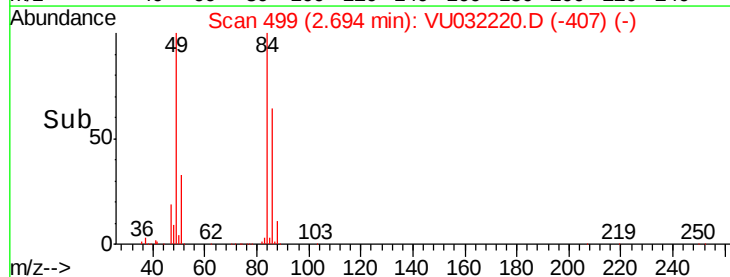
Ion 86.00 (85.70 to 86.70): VU032220.D (-407) (-)

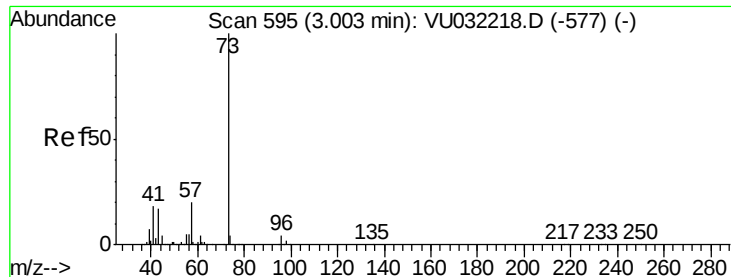
Ion 49.10 (48.80 to 49.80): VU032220.D (-407) (-)

Time-->

2.60 2.65 2.70 2.75 2.80

2.69





#17

Methyl tert-butyl Ether

Concen: 17.147 ug/L

RT: 3.00 min Scan# 594

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

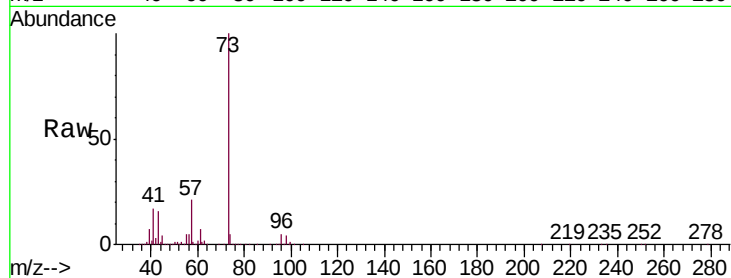
Tgt Ion: 73 Resp: 648781

Ion Ratio Lower Upper

73 100

43 16.5 13.8 20.6

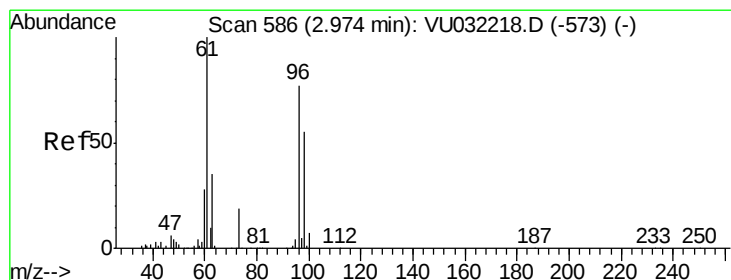
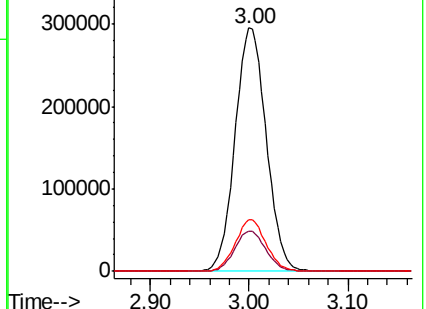
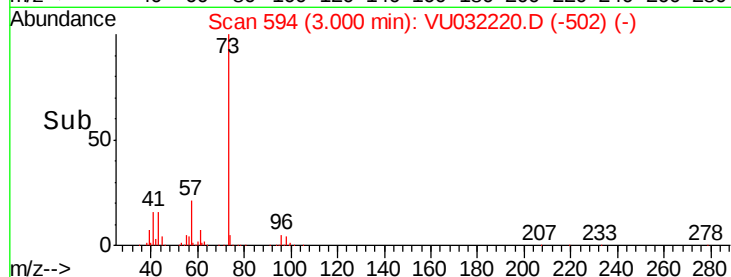
57 20.9 16.2 24.4



Abundance Ion 73.10 (72.80 to 73.80): VU032220.D (-502) (-)

Ion 43.05 (42.75 to 43.75): VU032220.D (-502) (-)

Ion 57.10 (56.80 to 57.80): VU032220.D (-502) (-)



#18

trans-1,2-Dichloroethene

Concen: 17.440 ug/L

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

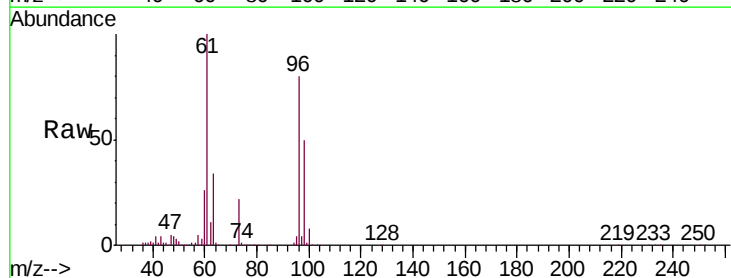
Tgt Ion: 96 Resp: 299511

Ion Ratio Lower Upper

96 100

61 125.4 90.6 168.3

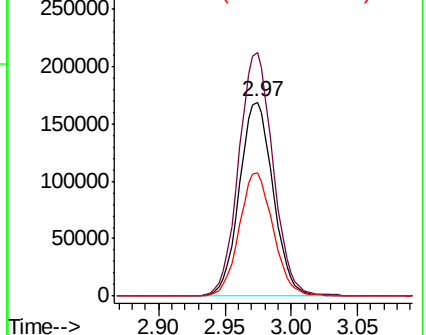
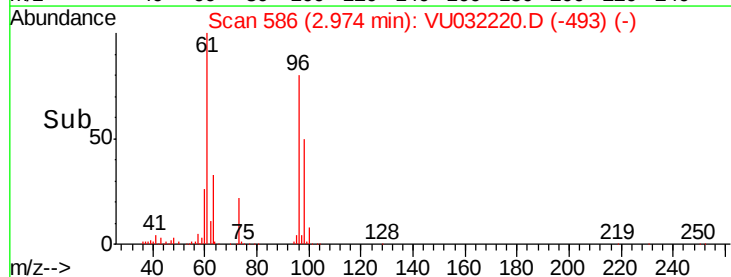
98 63.2 49.5 91.9

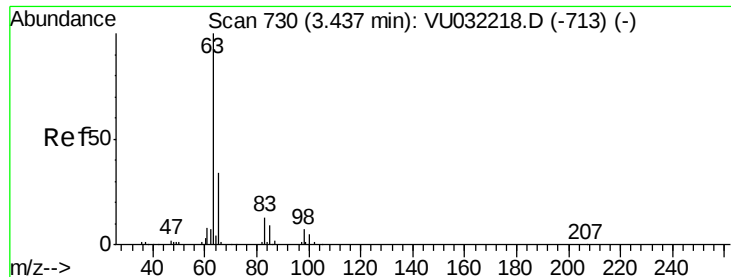


Abundance Ion 96.00 (95.70 to 96.70): VU032220.D (-493) (-)

Ion 61.05 (60.75 to 61.75): VU032220.D (-493) (-)

Ion 97.95 (97.65 to 98.65): VU032220.D (-493) (-)





#19

1,1-Dichloroethane

Concen: 17.576 ug/L

RT: 3.43 min Scan# 729

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

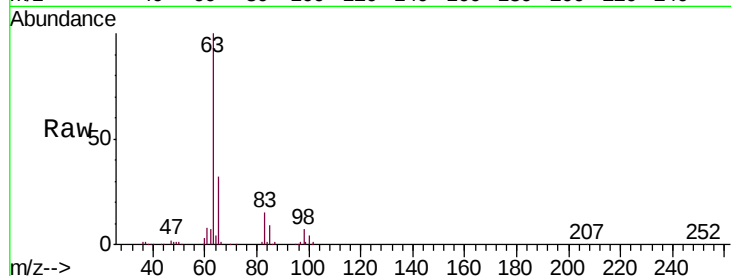
Tgt Ion: 63 Resp: 481649

Ion Ratio Lower Upper

63 100

65 32.0 23.5 43.7

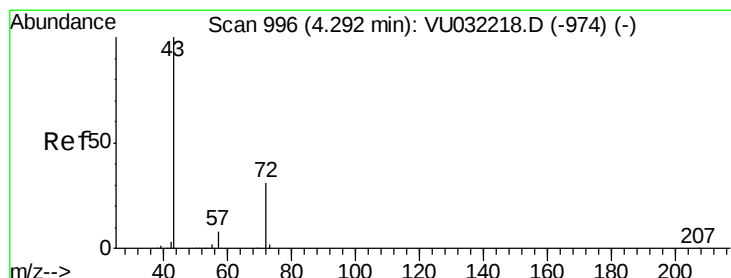
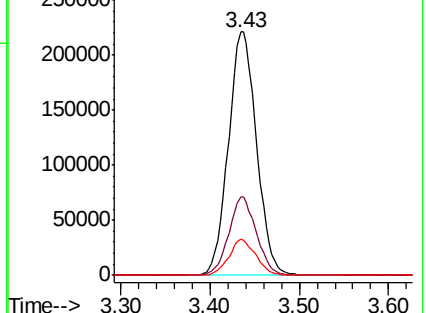
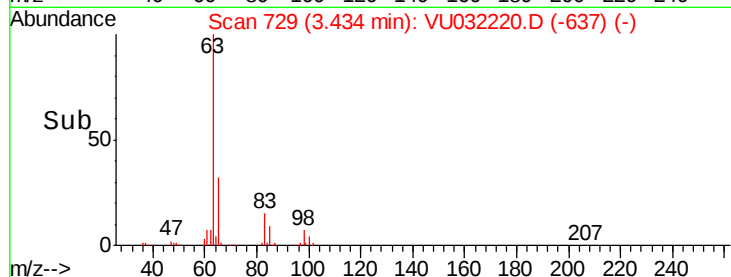
83 14.9 8.8 16.3



Abundance Ion 63.10 (62.80 to 63.80): VU032220.D (-637) (-)

Ion 65.10 (64.80 to 65.80): VU032220.D (-637) (-)

Ion 83.05 (82.75 to 83.75): VU032220.D (-637) (-)



#21

2-Butanone

Concen: 201.542 ug/L

RT: 4.28 min Scan# 993

Delta R.T. -0.01 min

Lab File: VU032220.D

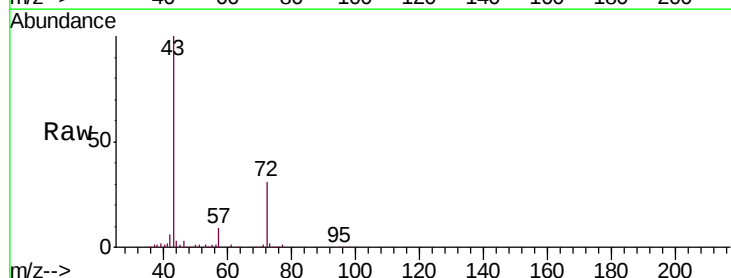
Acq: 22 May 2019 14:11

Tgt Ion: 43 Resp: 636423

Ion Ratio Lower Upper

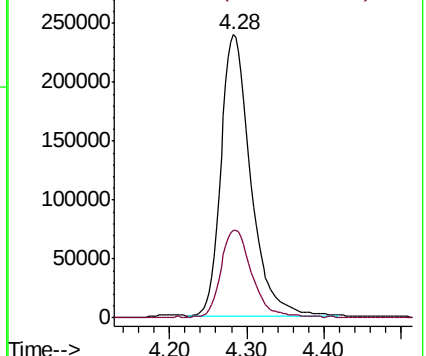
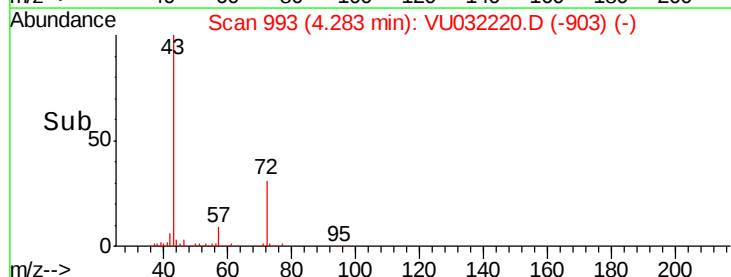
43 100

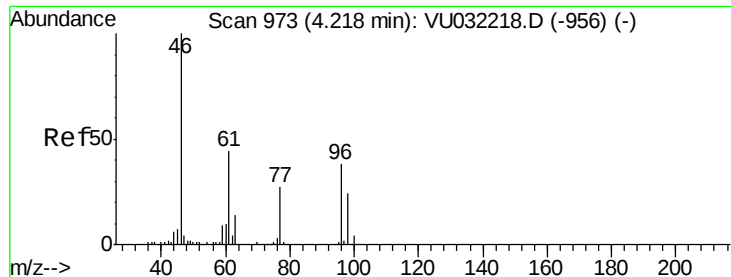
72 31.8 15.2 45.6



Abundance Ion 43.05 (42.75 to 43.75): VU032220.D (-903) (-)

Ion 72.10 (71.80 to 72.80): VU032220.D (-903) (-)



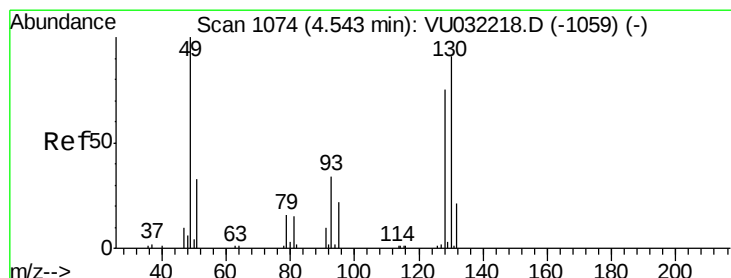
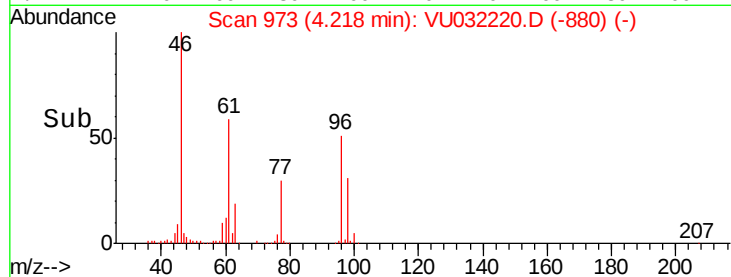
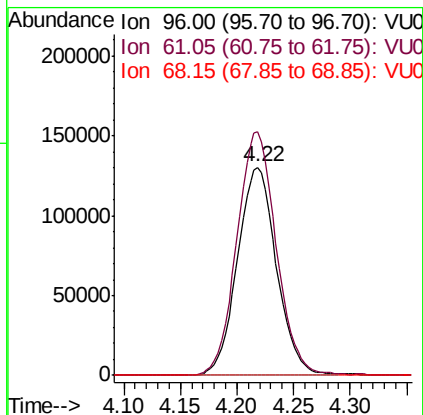
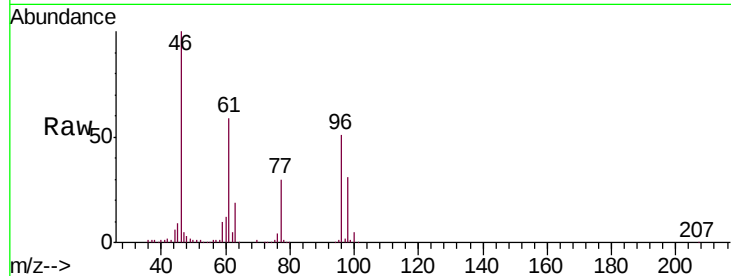


#22

cis-1,2-Dichloroethene
 Concen: 18.424 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02011

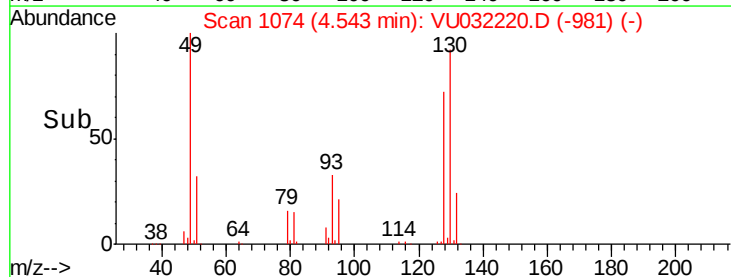
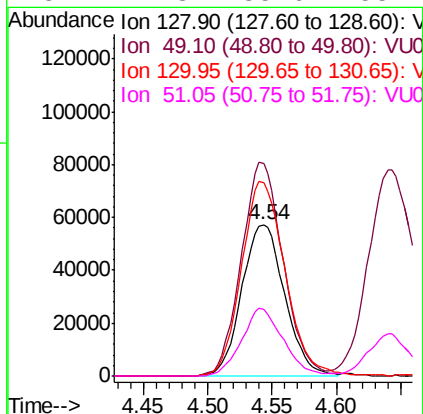
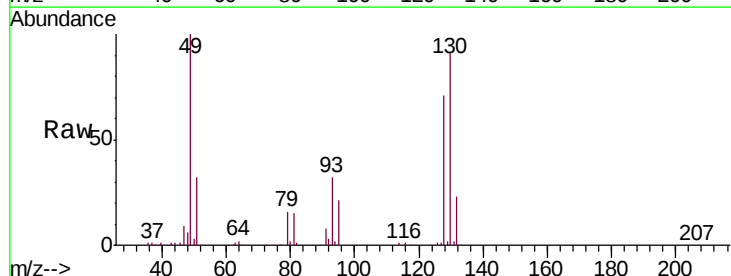
Tgt Ion: 96 Resp: 313154
 Ion Ratio Lower Upper
 96 100
 61 116.9 82.5 153.1
 68 0.0 0.0 0.0

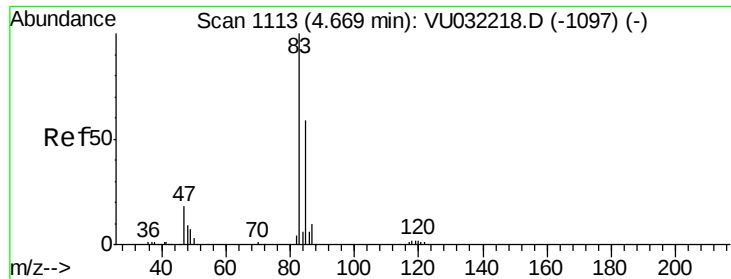


#23

Bromochloromethane
 Concen: 17.964 ug/L
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Tgt Ion: 128 Resp: 133091
 Ion Ratio Lower Upper
 128 100
 49 140.3 93.9 174.3
 130 127.2 85.3 158.3
 51 44.3 35.6 53.4

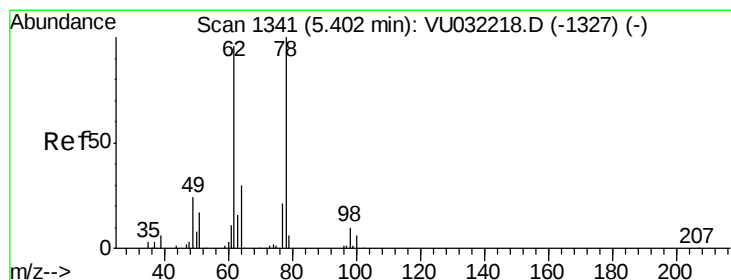
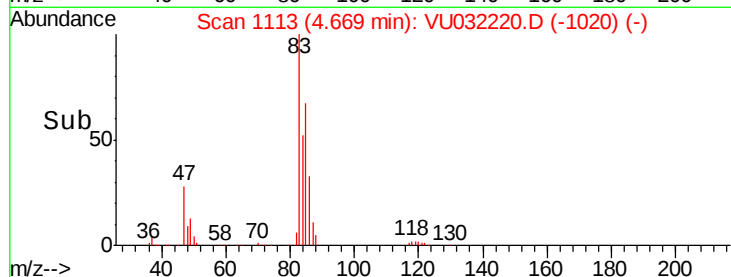
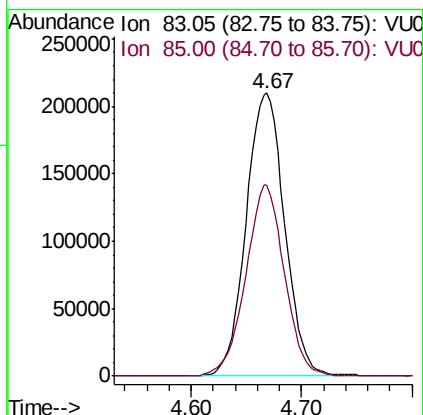
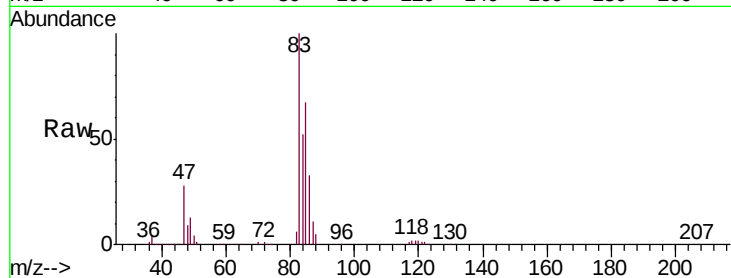




#25
Chloroform
Concen: 17.230 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

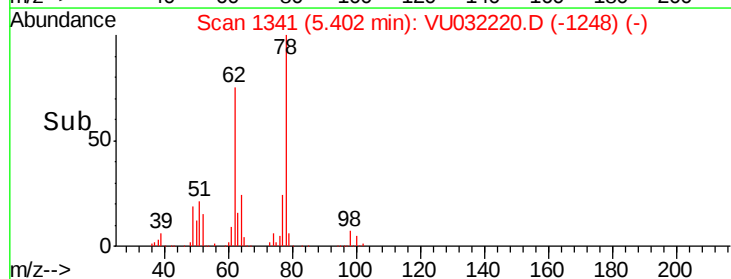
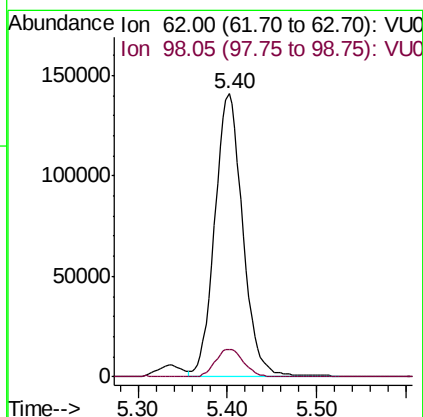
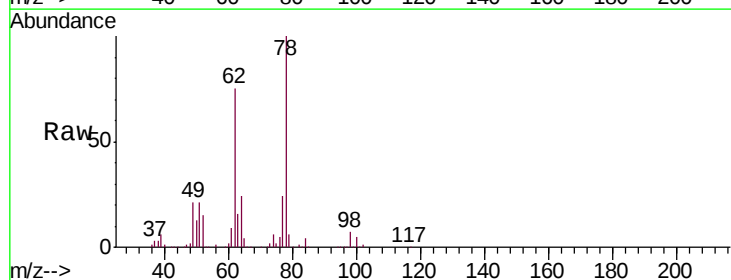
Instrument :
MSVOA_U
ClientSampleId :
VSTD02011

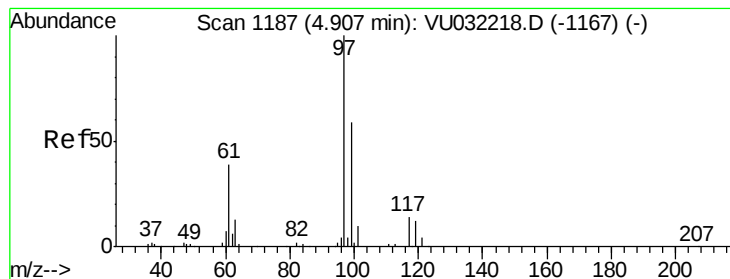
Tgt Ion: 83 Resp: 505978
Ion Ratio Lower Upper
83 100
85 67.4 41.6 77.3



#27
1,2-Dichloroethane
Concen: 18.052 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

Tgt Ion: 62 Resp: 304856
Ion Ratio Lower Upper
62 100
98 9.7 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 17.845 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

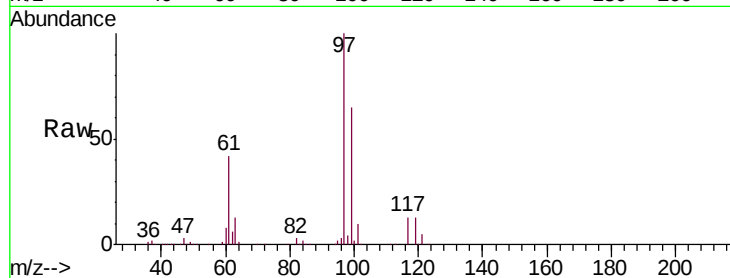
Tgt Ion: 97 Resp: 415461

Ion Ratio Lower Upper

97 100

99 65.4 50.3 75.5

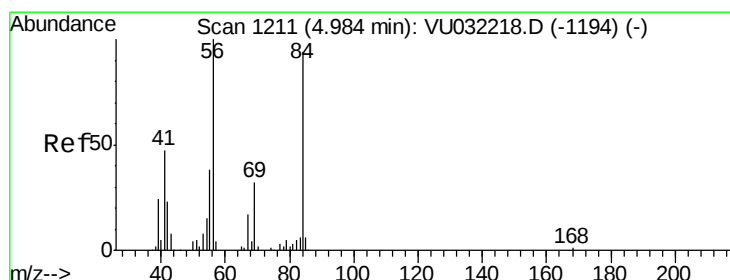
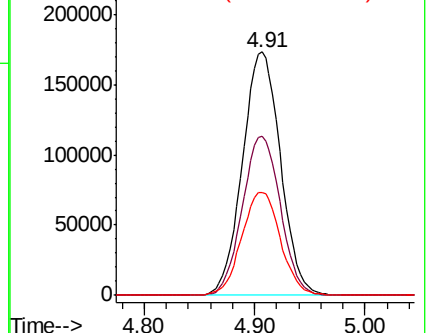
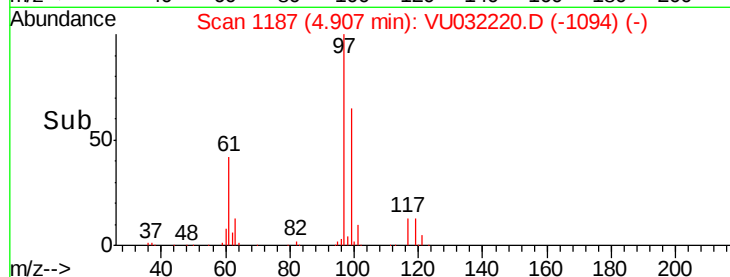
61 43.2 34.1 51.1



Abundance Ion 96.95 (96.65 to 97.65): VU032220.D (-1094) (-)

Ion 99.05 (98.75 to 99.75): VU032220.D (-1094) (-)

Ion 61.05 (60.75 to 61.75): VU032220.D (-1094) (-)



#30

Cyclohexane

Concen: 20.157 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

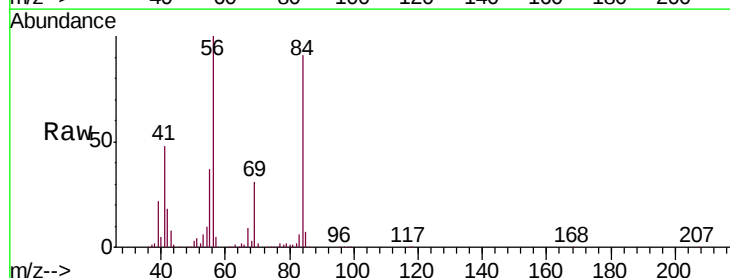
Tgt Ion: 56 Resp: 430962

Ion Ratio Lower Upper

56 100

69 32.8 26.6 39.8

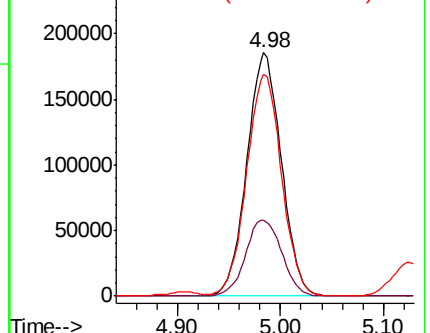
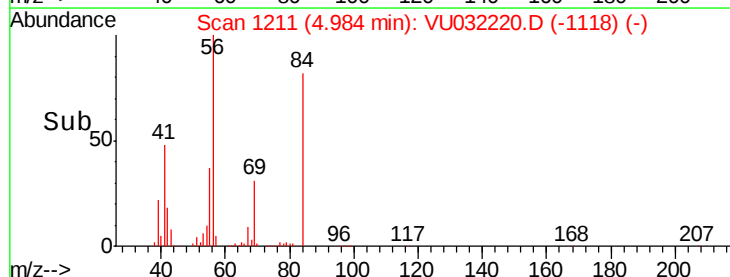
84 92.1 75.0 112.6

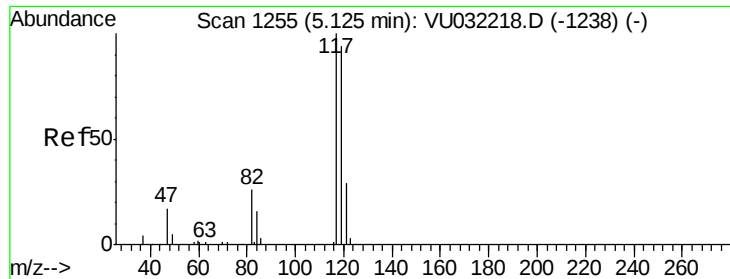


Abundance Ion 56.10 (55.80 to 56.80): VU032220.D (-1118) (-)

Ion 69.15 (68.85 to 69.85): VU032220.D (-1118) (-)

Ion 84.15 (83.85 to 84.85): VU032220.D (-1118) (-)

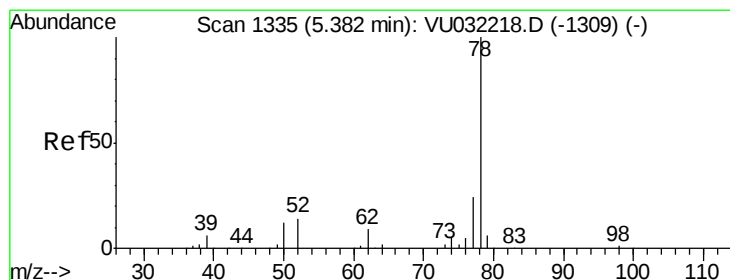
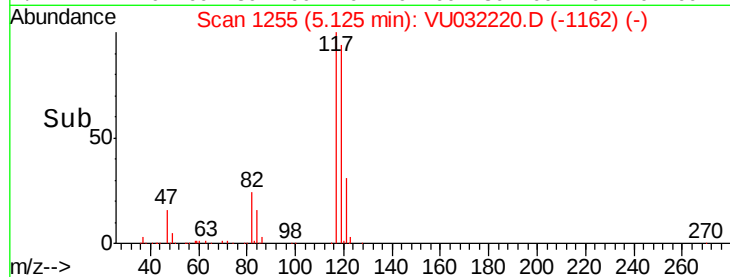
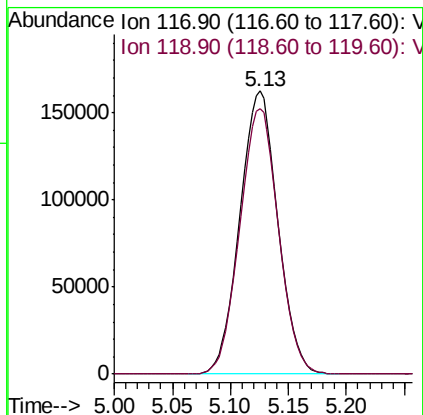
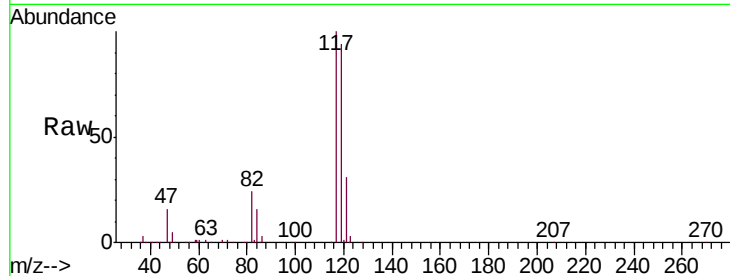




#31
Carbon tetrachloride
Concen: 18.656 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

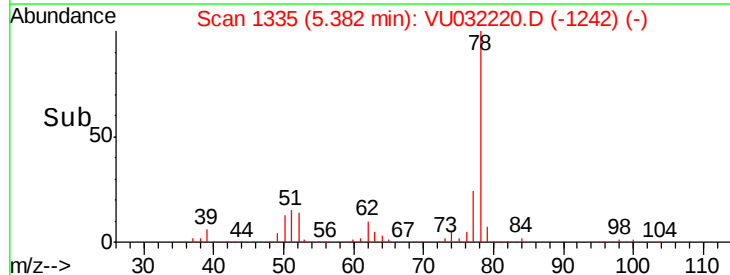
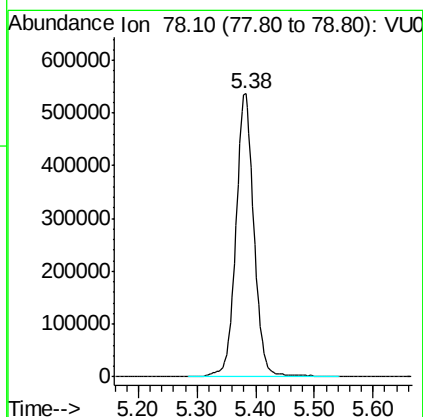
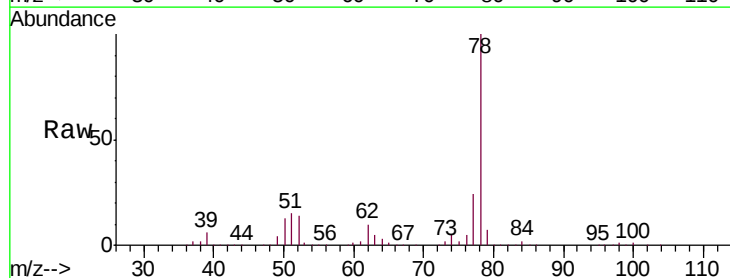
Instrument :
MSVOA_U
ClientSampleId :
VSTD02011

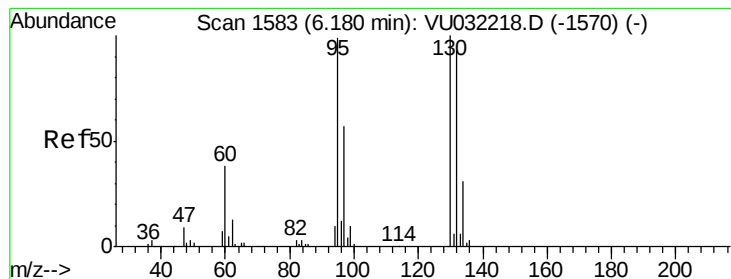
Tgt Ion:117 Resp: 369754
Ion Ratio Lower Upper
117 100
119 95.6 76.9 115.3



#33
Benzene
Concen: 19.085 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

Tgt Ion: 78 Resp: 1161280





#34

Trichloroethene

Concen: 17.947 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

Tgt Ion: 95 Resp: 295104

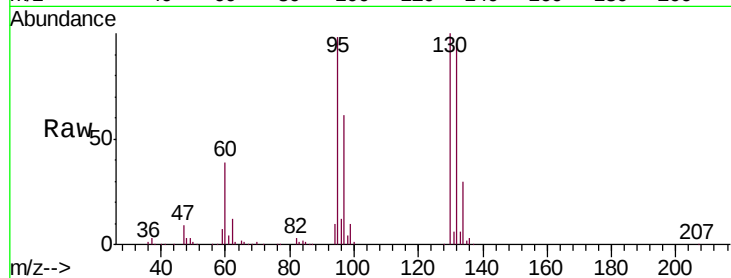
Ion Ratio Lower Upper

95 100

97 63.0 39.9 74.1

132 97.2 65.9 122.5

130 102.5 70.6 131.2



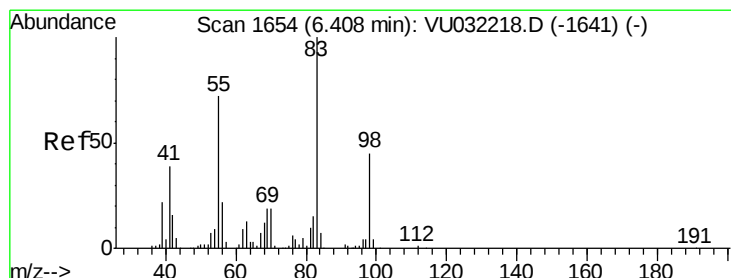
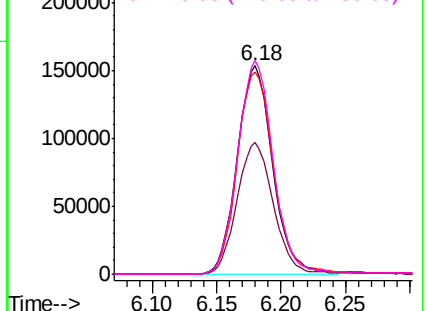
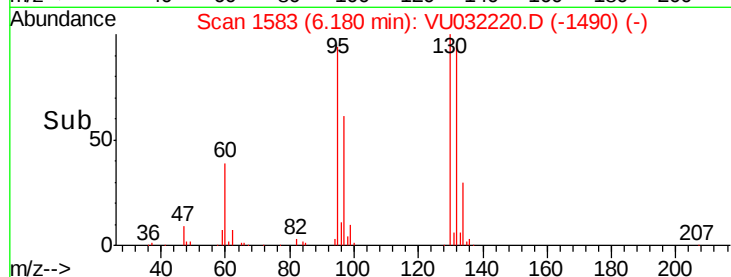
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 20.107 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

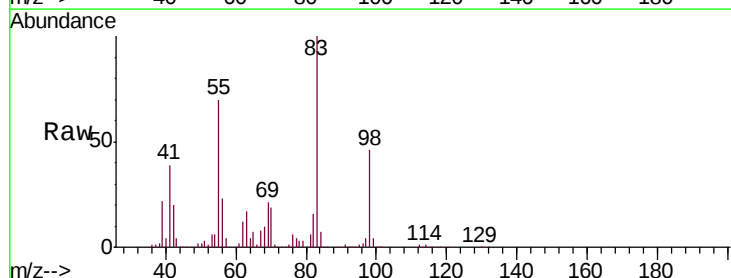
Tgt Ion: 83 Resp: 479334

Ion Ratio Lower Upper

83 100

55 71.8 59.7 89.5

98 47.0 37.5 56.3

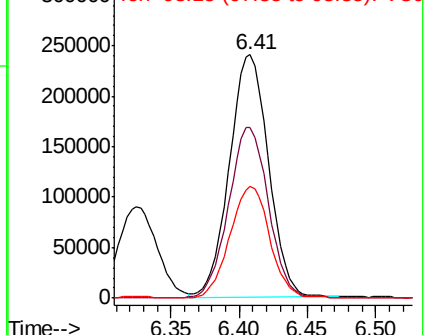
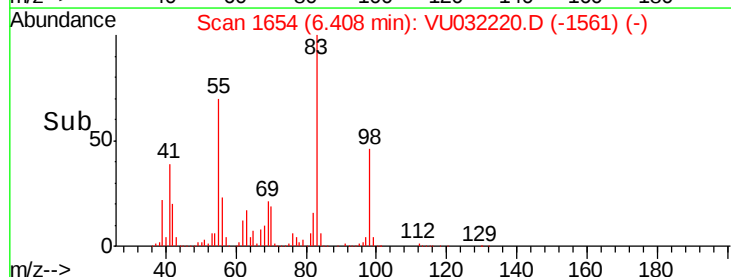


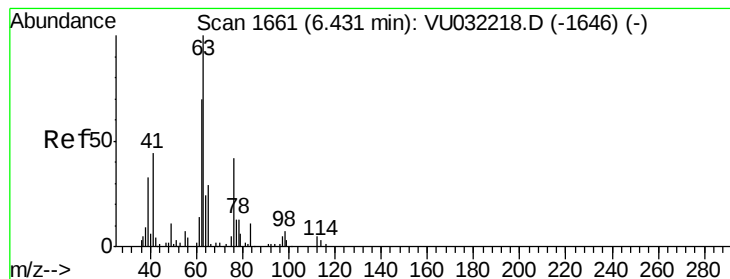
Abundance

Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 18.409 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampled :

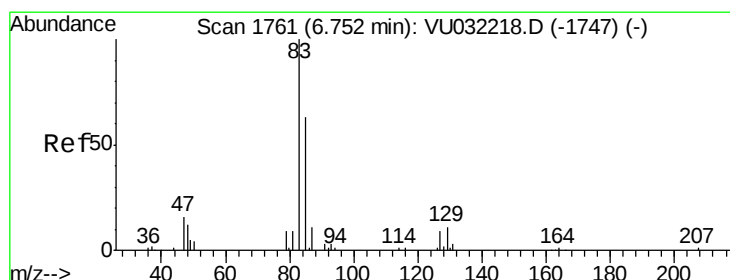
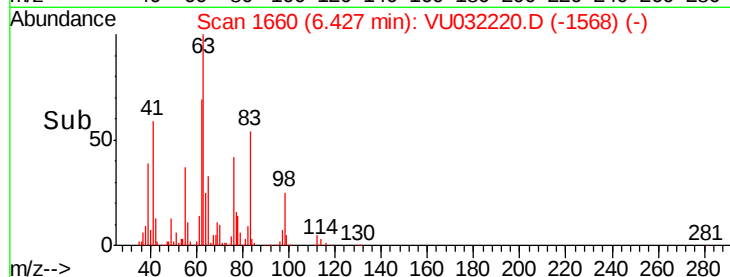
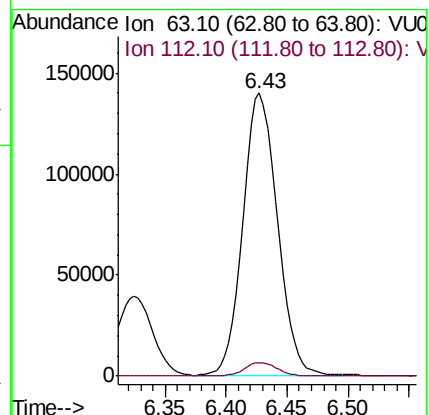
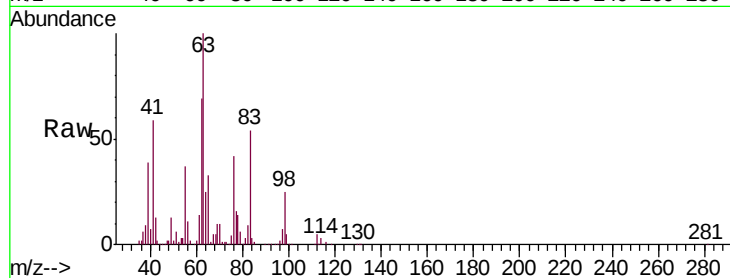
VSTD02011

Tgt Ion: 63 Resp: 273307

Ion Ratio Lower Upper

63 100

112 4.6 3.8 5.8



#38

Bromodichloromethane

Concen: 18.475 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

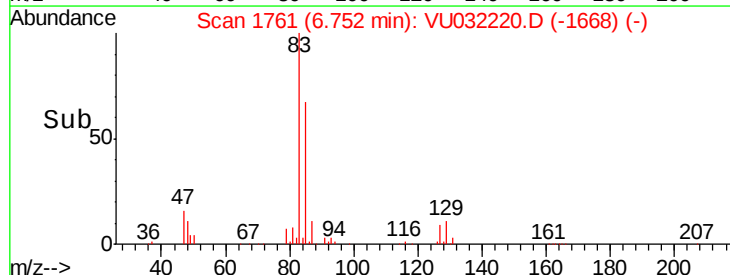
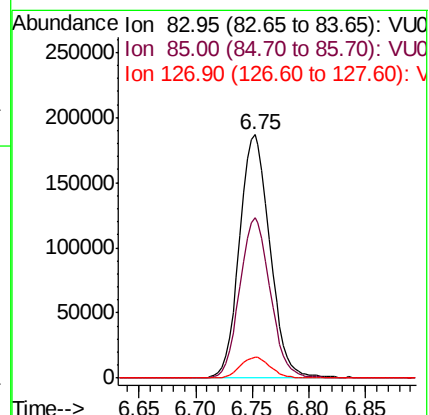
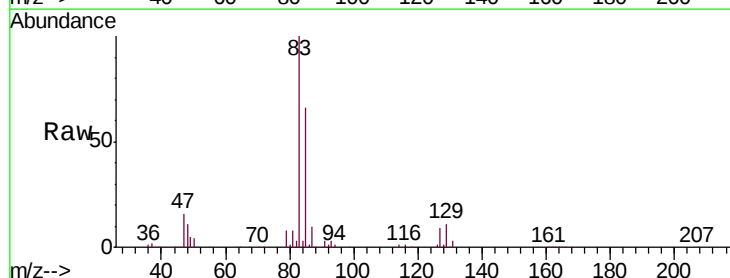
Tgt Ion: 83 Resp: 351488

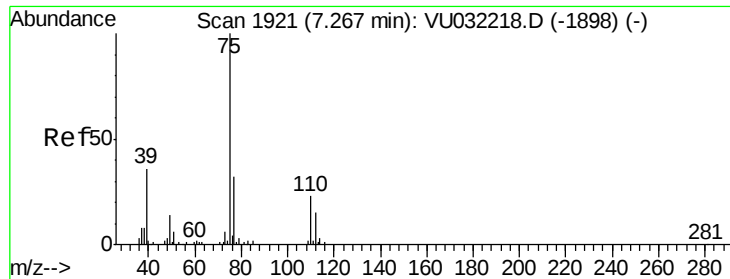
Ion Ratio Lower Upper

83 100

85 65.9 44.4 82.4

127 8.6 7.0 10.6

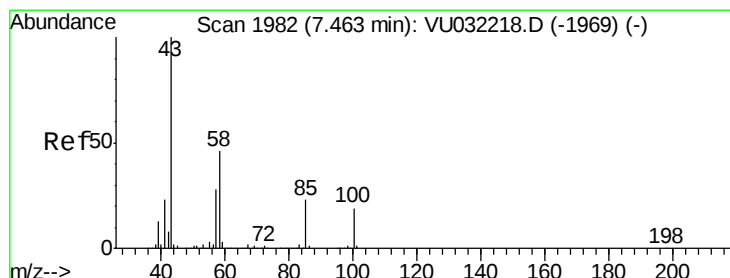
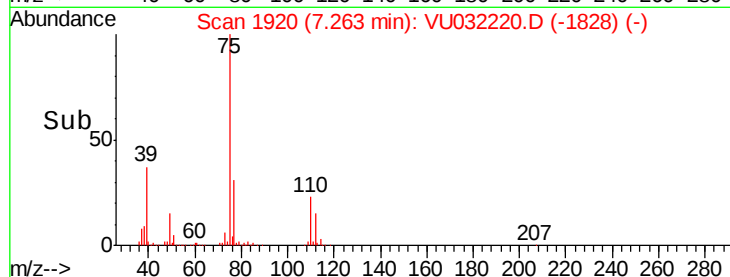
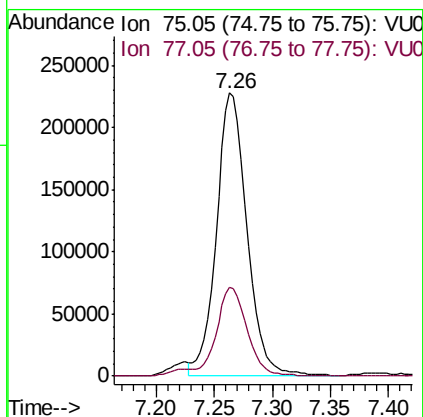
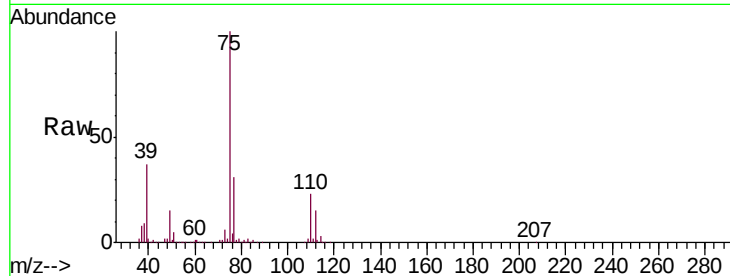




#39
 cis-1,3-Dichloropropene
 Concen: 20.075 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

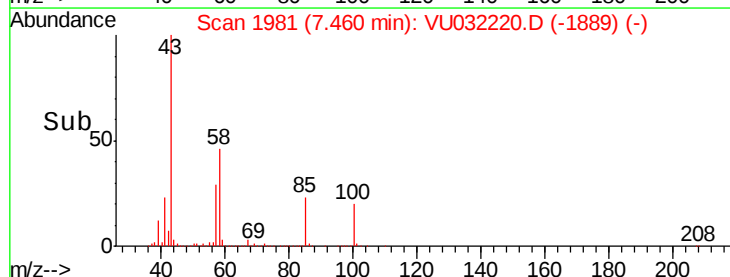
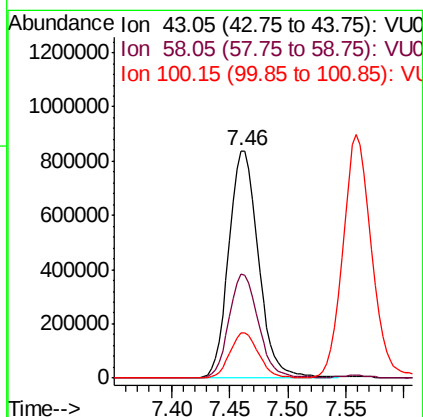
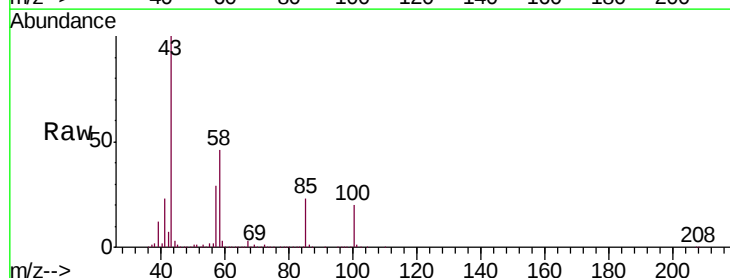
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD02011

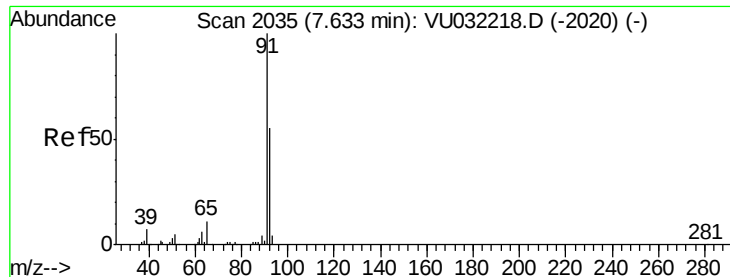
Tgt Ion: 75 Resp: 414256
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 213.886 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Tgt Ion: 43 Resp: 1492165
 Ion Ratio Lower Upper
 43 100
 58 45.5 35.8 53.6
 100 19.3 14.6 22.0





#42

Toluene

Concen: 19.653 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

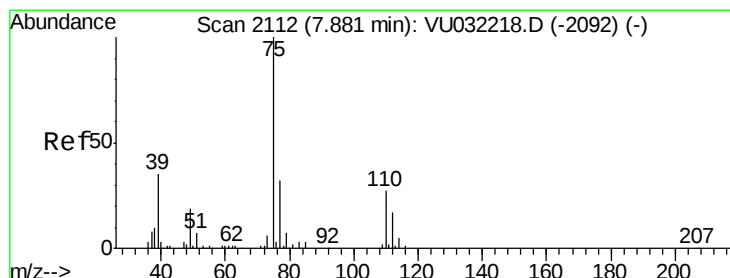
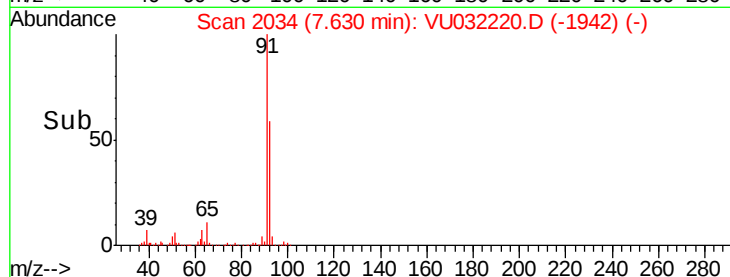
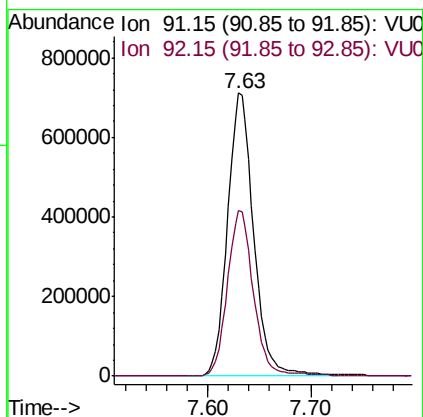
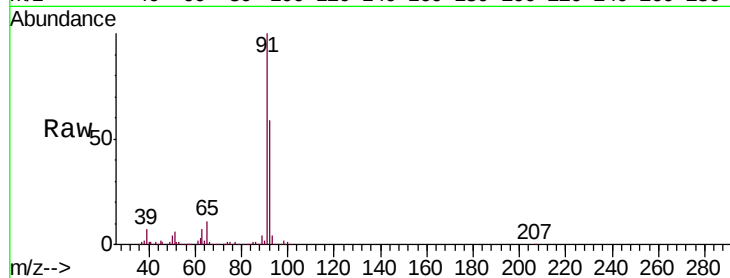
VSTD02011

Tgt Ion: 91 Resp: 1260687

Ion Ratio Lower Upper

91 100

92 58.6 38.5 71.5



#44

trans-1,3-Dichloropropene

Concen: 21.186 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.01 min

Lab File: VU032220.D

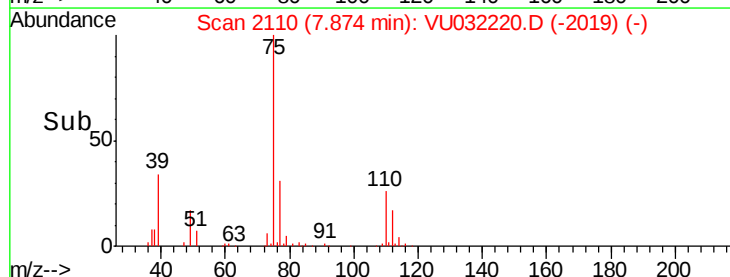
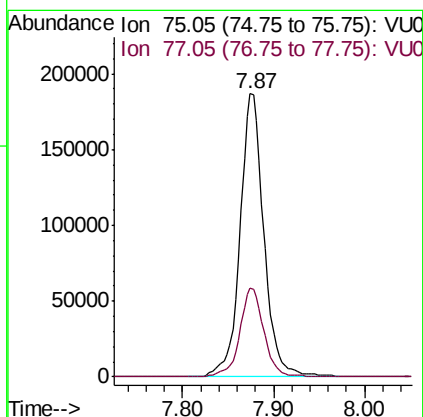
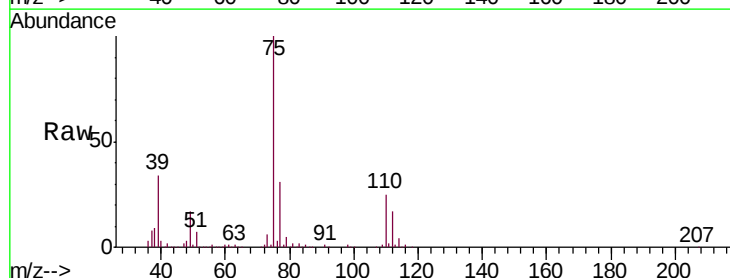
Acq: 22 May 2019 14:11

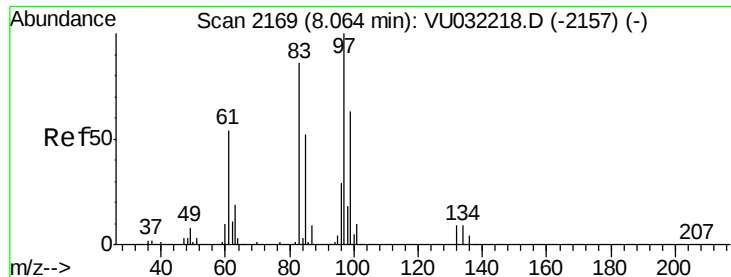
Tgt Ion: 75 Resp: 339899

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.9

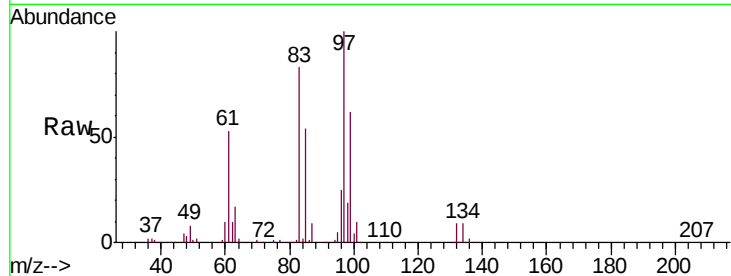




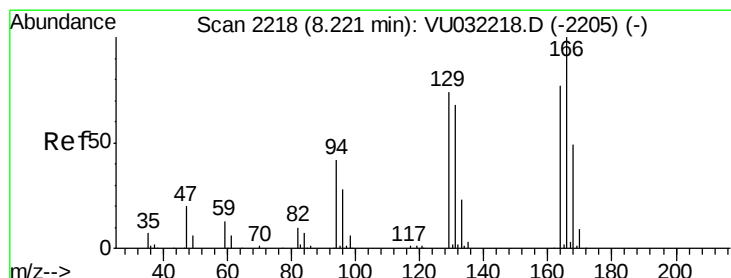
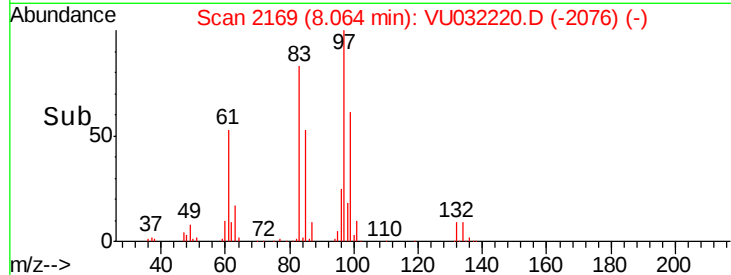
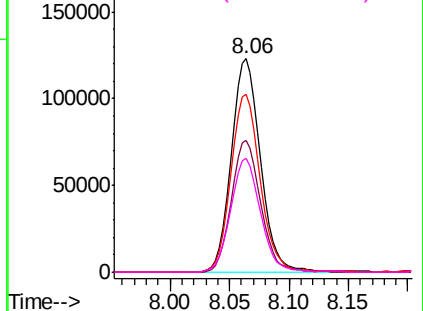
#45
 1,1,2-Trichloroethane
 Concen: 19.105 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02011

Tgt Ion:	97	Resp:	209931
Ion	Ratio	Lower	Upper
97	100		
99	61.7	44.2	82.0
83	83.4	60.5	112.3
85	53.5	36.3	67.3

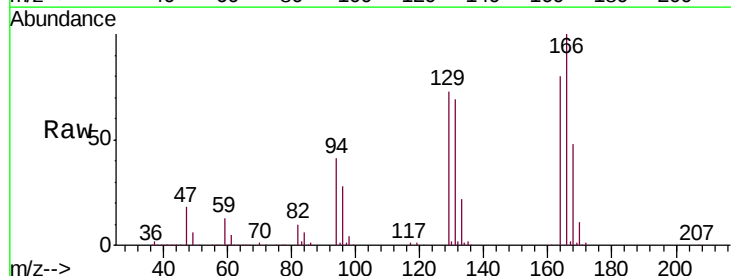


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

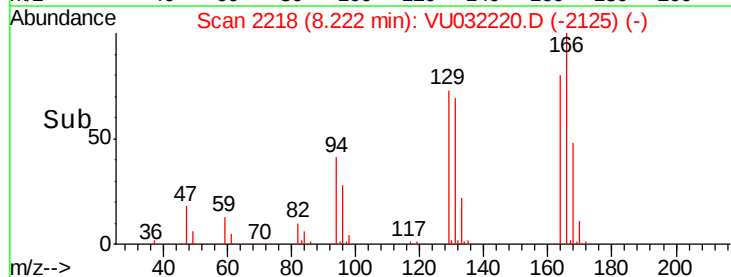
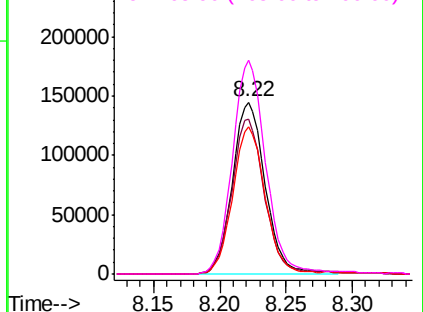


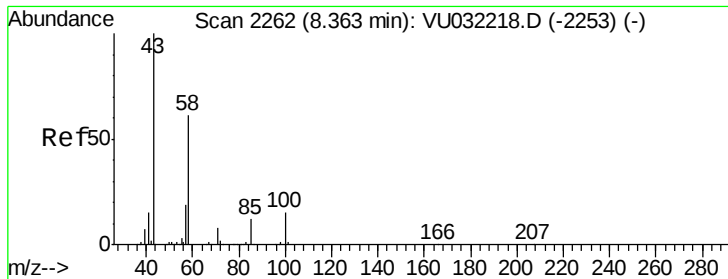
#47
 Tetrachloroethene
 Concen: 19.938 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Tgt Ion:	164	Resp:	248673
Ion	Ratio	Lower	Upper
164	100		
129	90.6	67.1	124.7
131	85.6	62.2	115.4
166	124.5	90.9	168.9



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

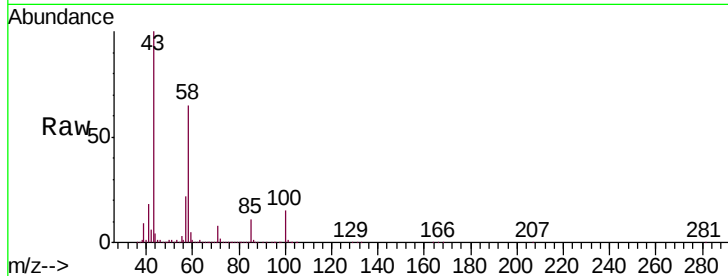




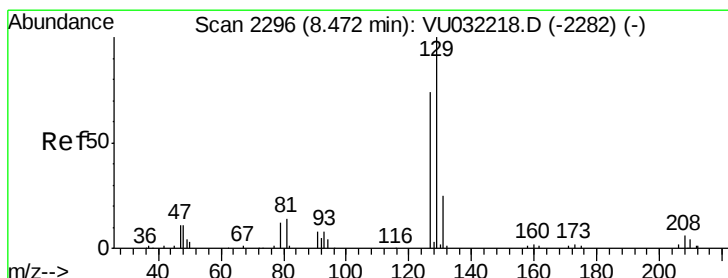
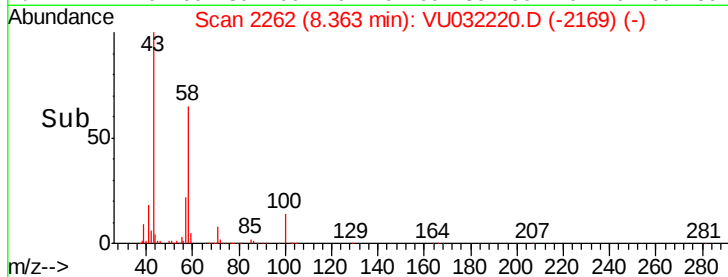
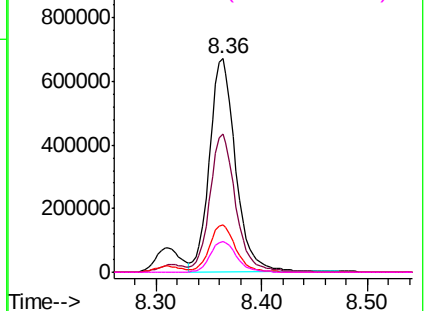
#48
2-Hexanone
Concen: 213.969 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD02011

Tgt Ion: 43 Resp: 1151954
Ion Ratio Lower Upper
43 100
58 64.1 49.7 74.5
57 22.2 17.1 25.7
100 14.8 11.6 17.4

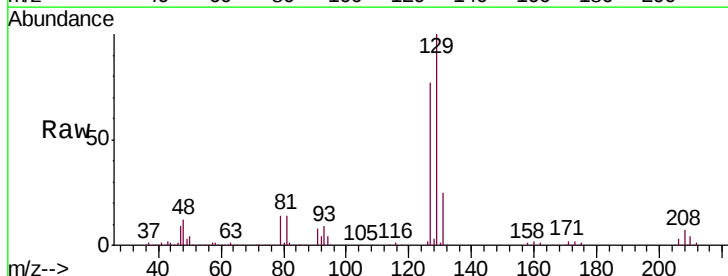


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

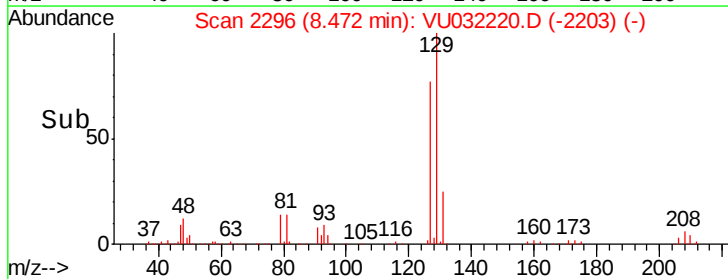
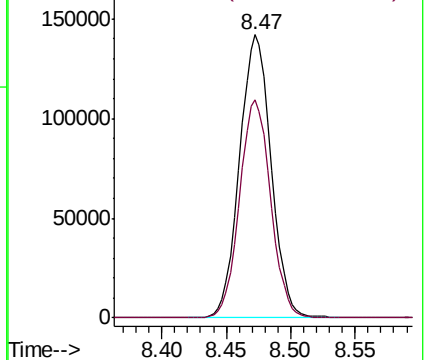


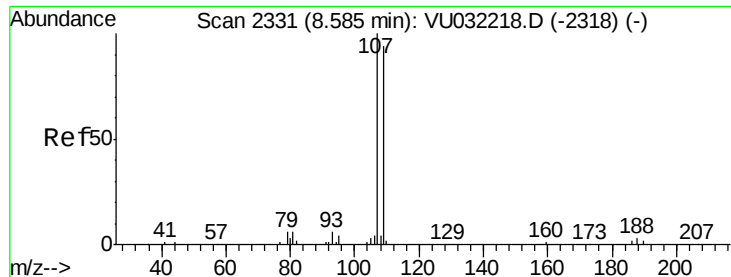
#49
Dibromochloromethane
Concen: 18.906 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

Tgt Ion: 129 Resp: 241729
Ion Ratio Lower Upper
129 100
127 76.9 51.7 95.9



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

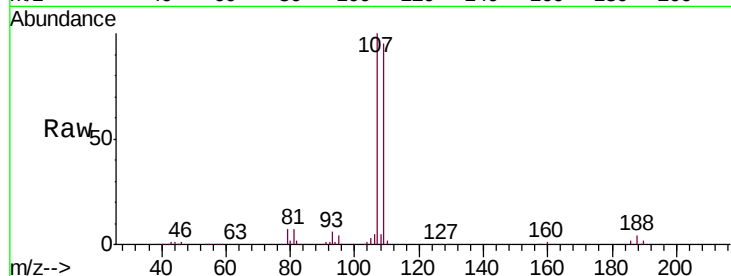




#50
1,2-Dibromoethane
Concen: 19.050 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD02011

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.3	65.8	122.2
188	3.9	2.6	3.8#

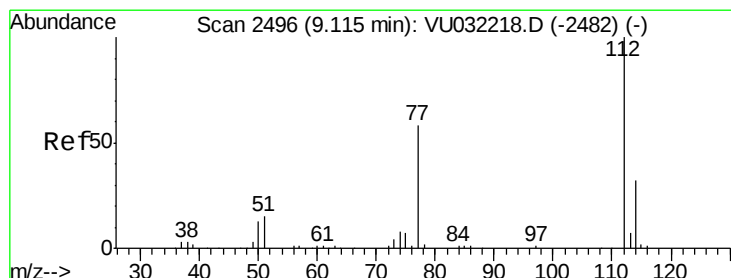
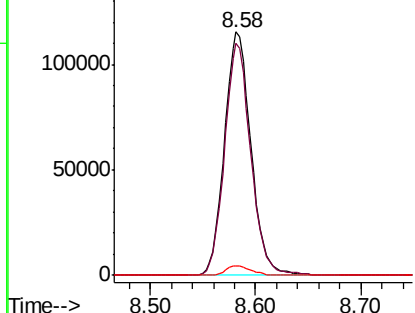
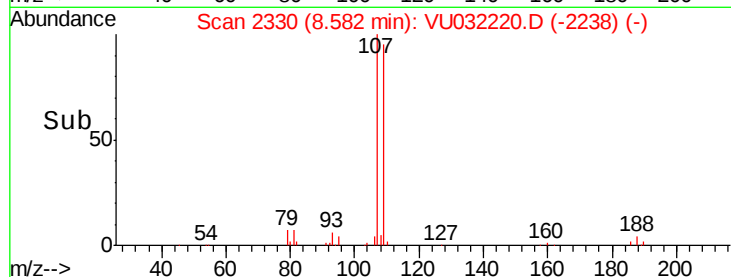


Abundance

Ion 106.95 (106.65 to 107.65): V

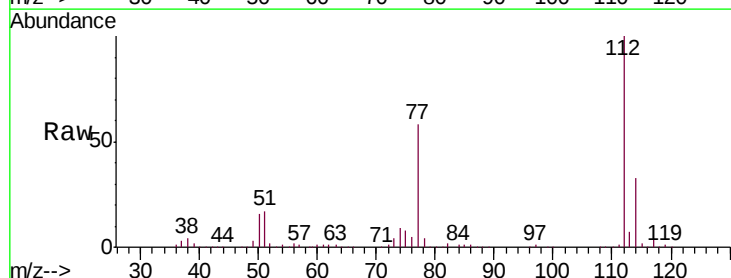
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 18.919 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. -0.00 min
Lab File: VU032220.D
Acq: 22 May 2019 14:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.6	42.0
77	58.3	46.8	70.2

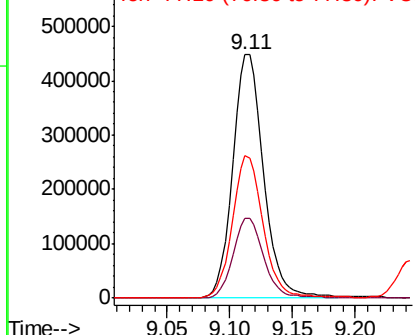
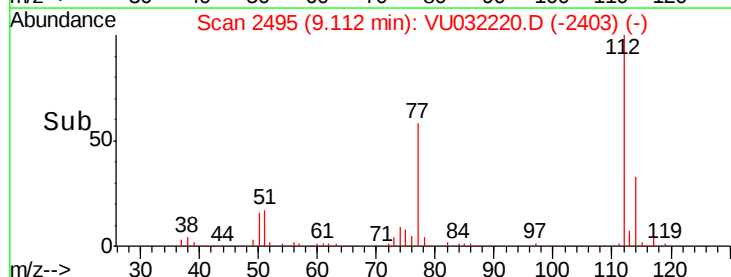


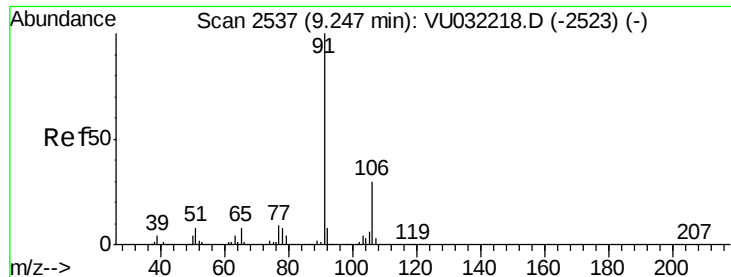
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0





#52

Ethylbenzene

Concen: 20.569 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

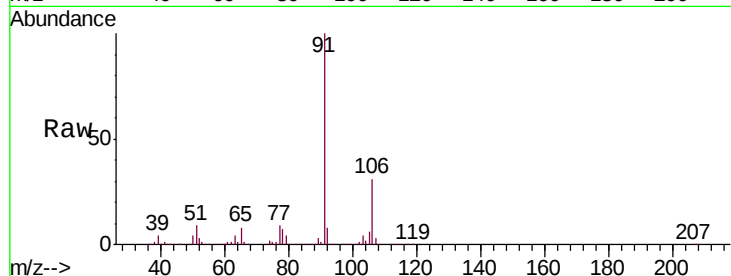
VSTD02011

Tgt Ion: 91 Resp: 1318915

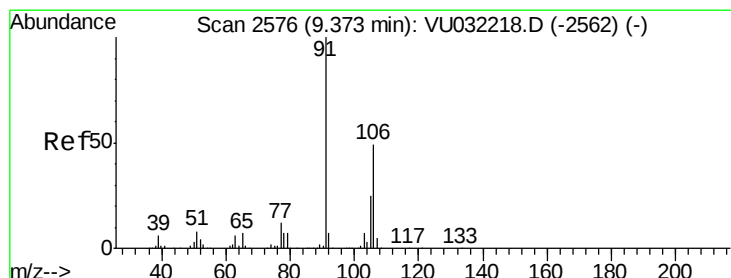
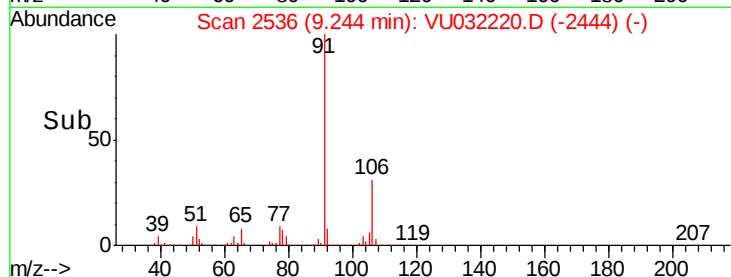
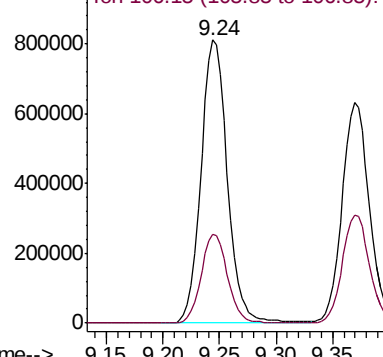
Ion Ratio Lower Upper

91 100

106 31.3 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): VU032218.D (-2523) (-)



#53

m,p-Xylene

Concen: 21.097 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032220.D

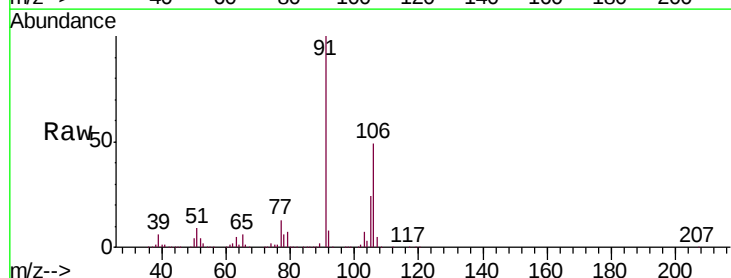
Acq: 22 May 2019 14:11

Tgt Ion: 106 Resp: 515247

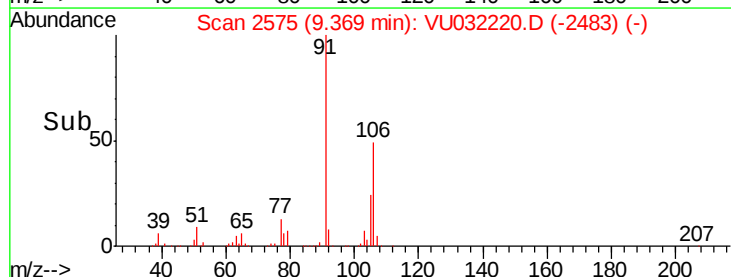
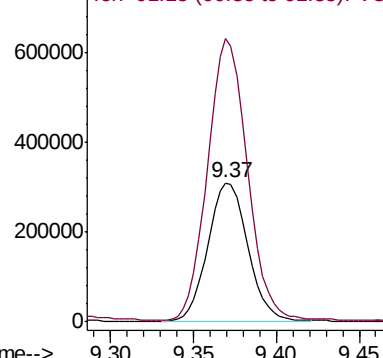
Ion Ratio Lower Upper

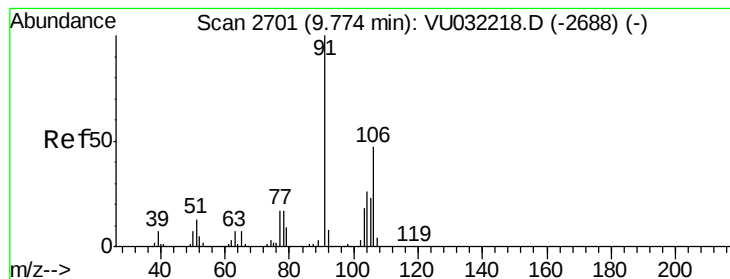
106 100

91 203.2 143.9 267.2



Abundance Ion 106.15 (105.85 to 106.85): VU032218.D (-2562) (-)





#54

o-Xylene

Concen: 21.835 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

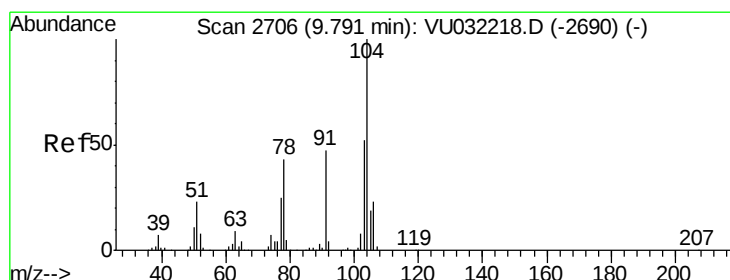
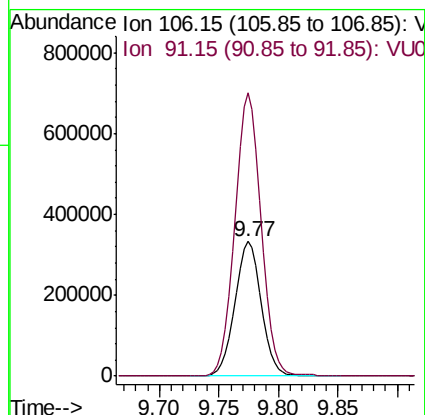
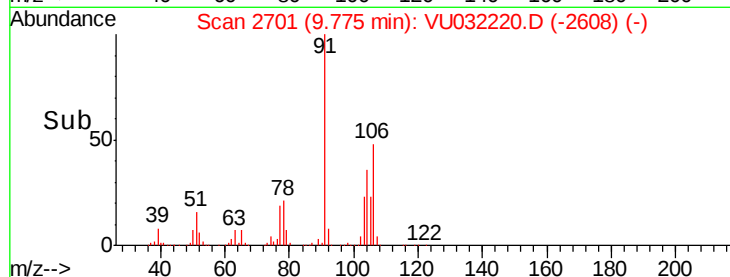
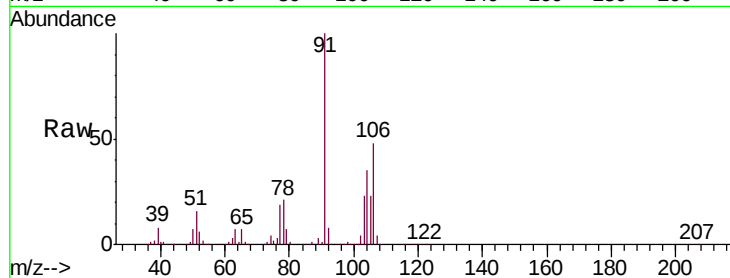
VSTD02011

Tgt Ion:106 Resp: 512097

Ion Ratio Lower Upper

106 100

91 210.0 147.8 274.4



#55

Styrene

Concen: 22.677 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU032220.D

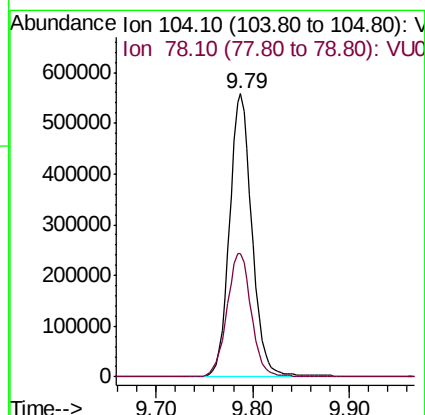
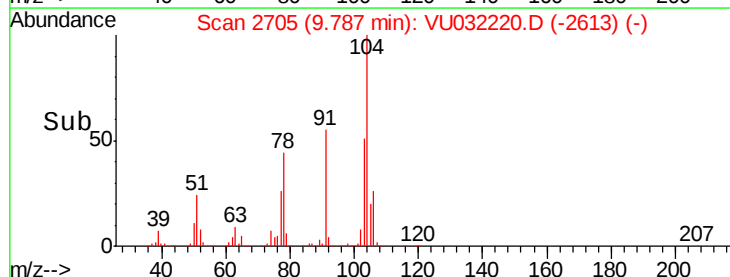
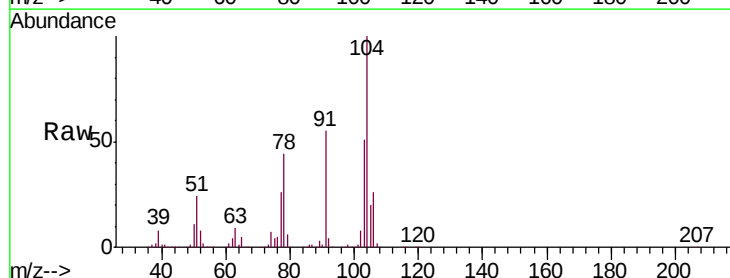
Acq: 22 May 2019 14:11

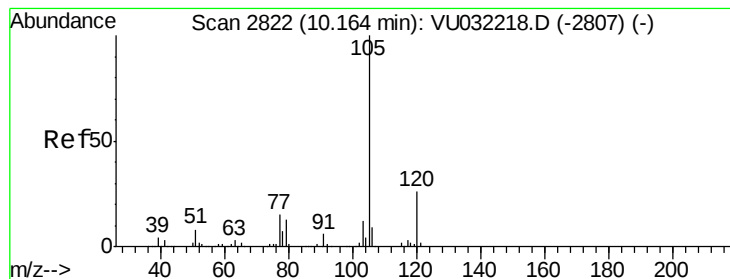
Tgt Ion:104 Resp: 900081

Ion Ratio Lower Upper

104 100

78 43.7 30.3 56.3





#56

Isopropylbenzene

Concen: 21.785 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

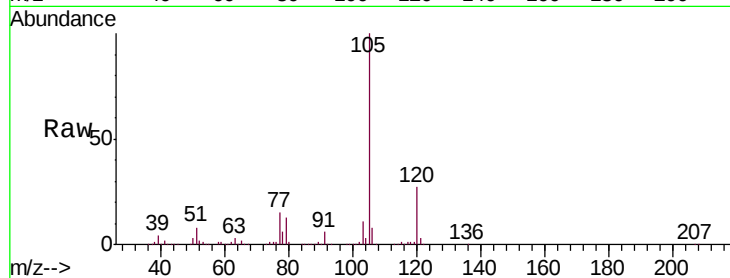
Tgt Ion:105 Resp: 1303184

Ion Ratio Lower Upper

105 100

120 26.8 21.0 31.6

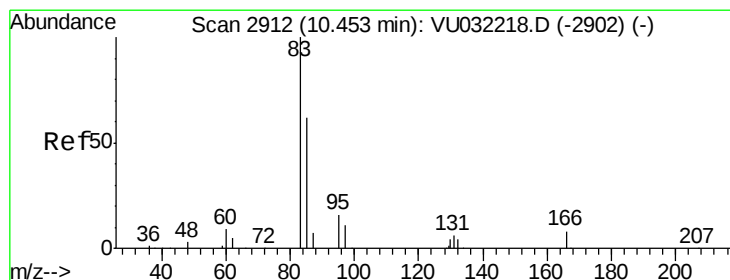
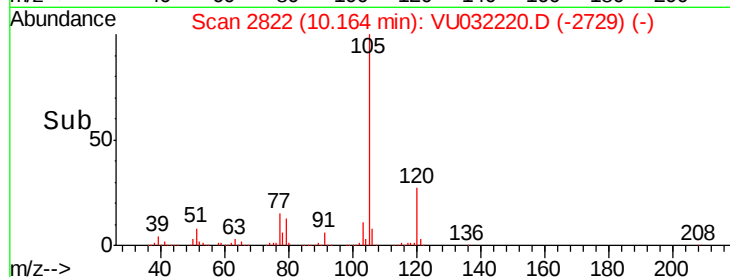
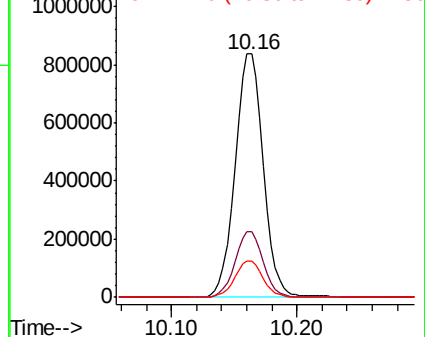
77 14.9 11.9 17.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 18.514 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

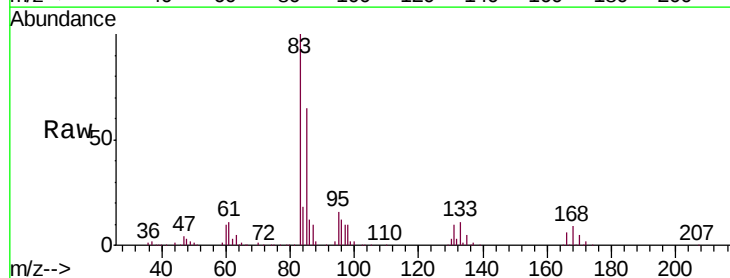
Tgt Ion: 83 Resp: 252487

Ion Ratio Lower Upper

83 100

85 65.3 46.5 86.3

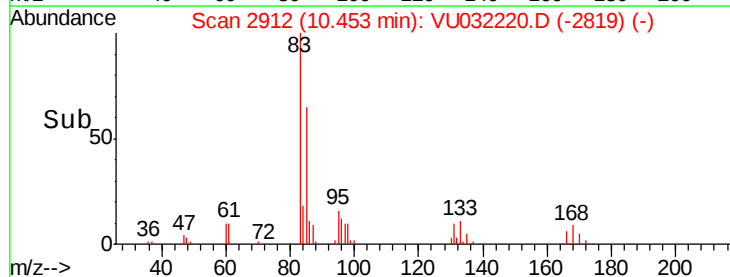
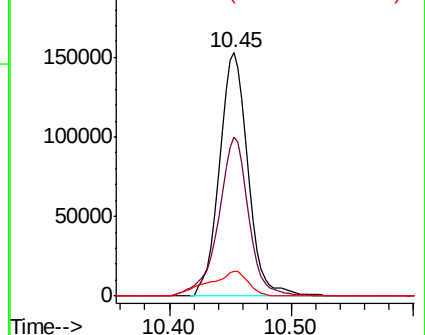
131 10.4 7.8 11.6

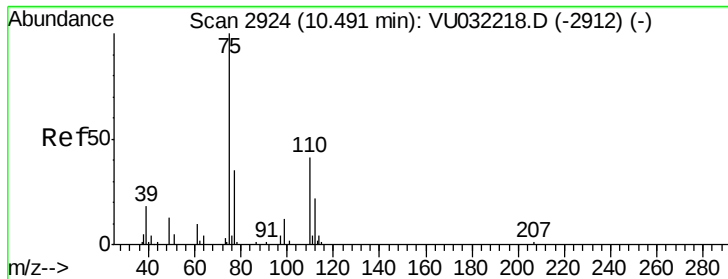


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 18.576 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

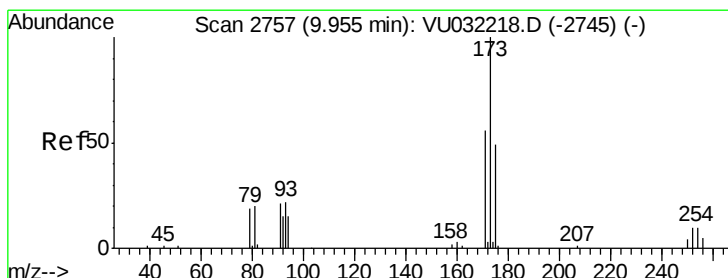
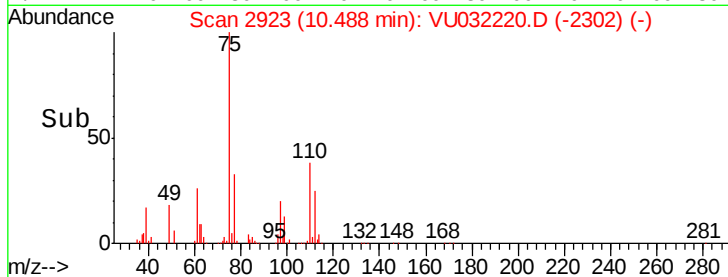
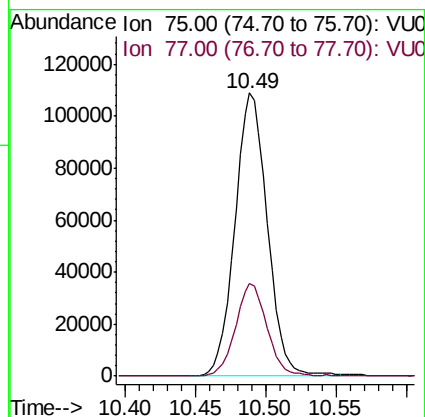
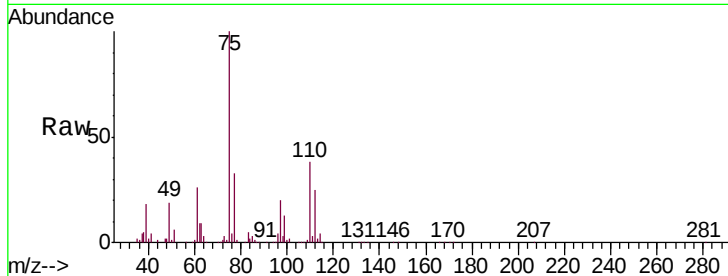
VSTD02011

Tgt Ion: 75 Resp: 175325

Ion Ratio Lower Upper

75 100

77 31.1 28.2 42.4



#61

Bromoform

Concen: 18.625 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

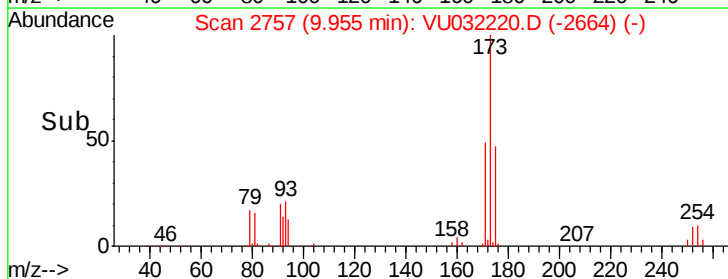
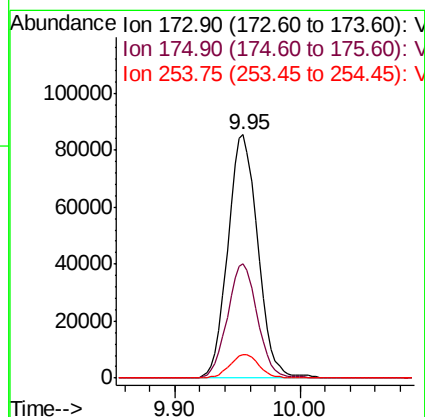
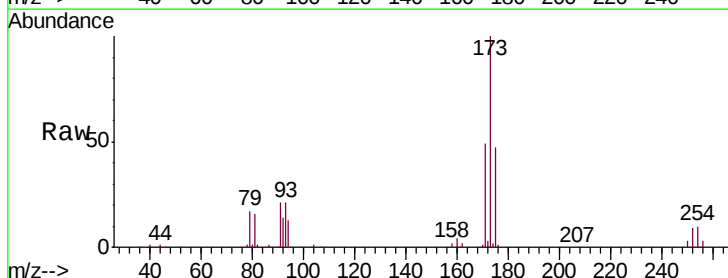
Tgt Ion: 173 Resp: 141758

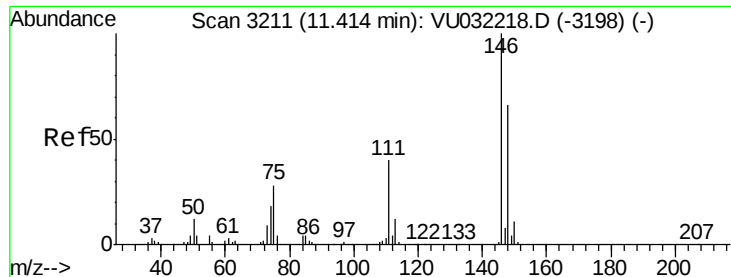
Ion Ratio Lower Upper

173 100

175 46.6 40.1 60.1

254 9.5 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 18.986 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

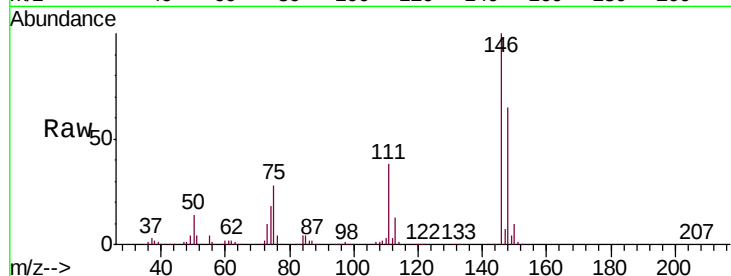
Tgt Ion:146 Resp: 600557

Ion Ratio Lower Upper

146 100

111 38.0 28.2 52.4

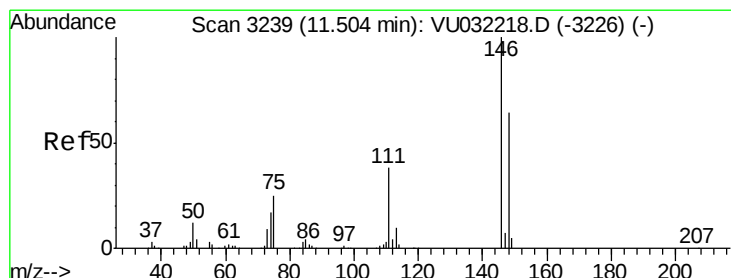
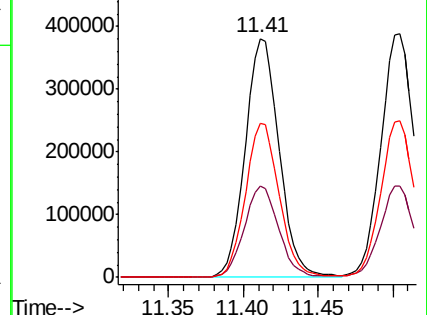
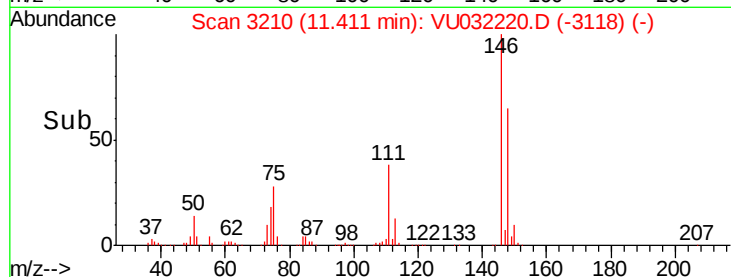
148 64.8 46.0 85.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 18.619 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

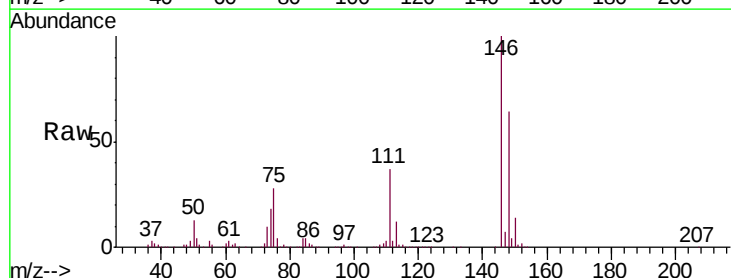
Tgt Ion:146 Resp: 618909

Ion Ratio Lower Upper

146 100

111 37.5 26.6 49.4

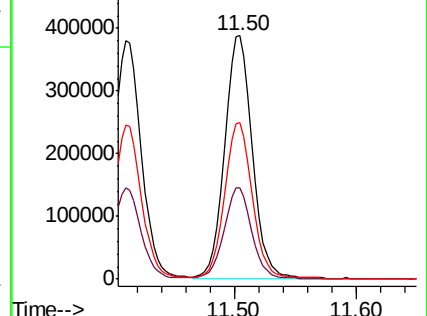
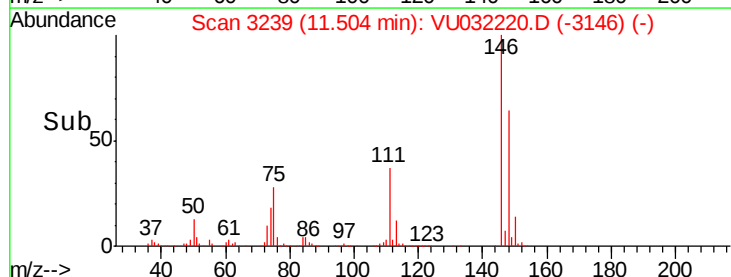
148 64.3 45.2 84.0

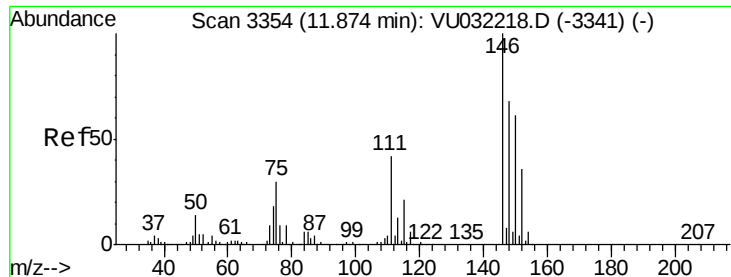


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

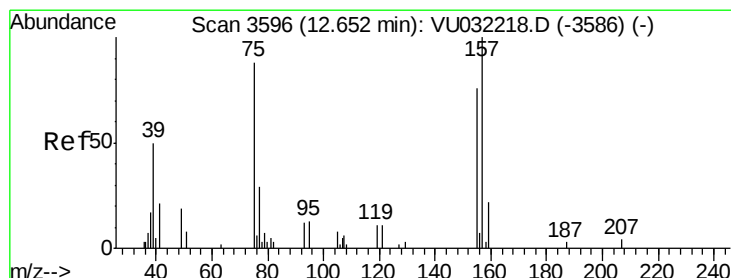
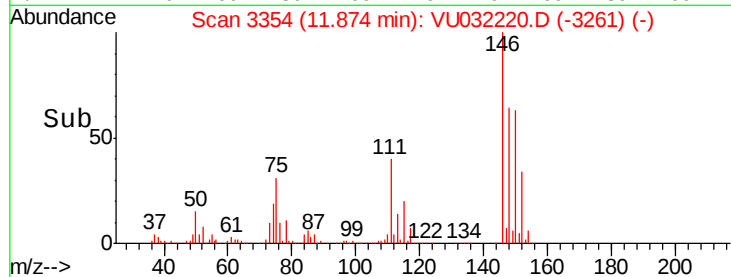
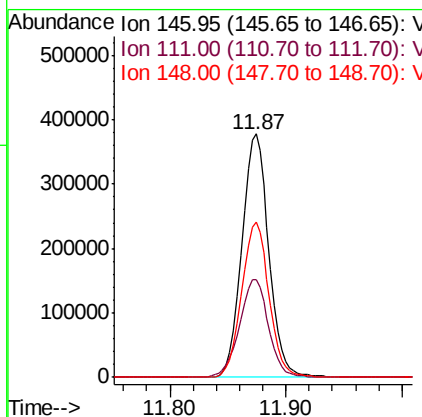
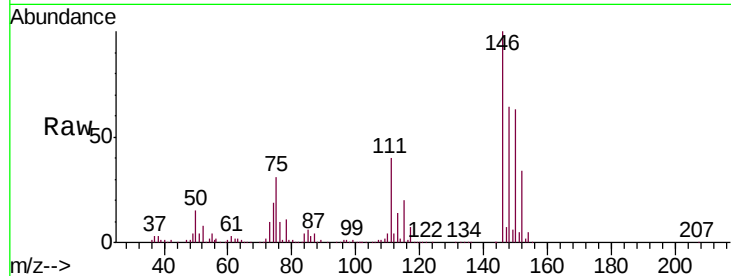




#65
 1,2-Dichlorobenzene
 Concen: 18.732 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

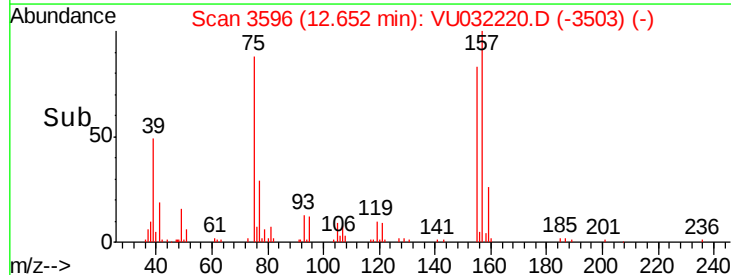
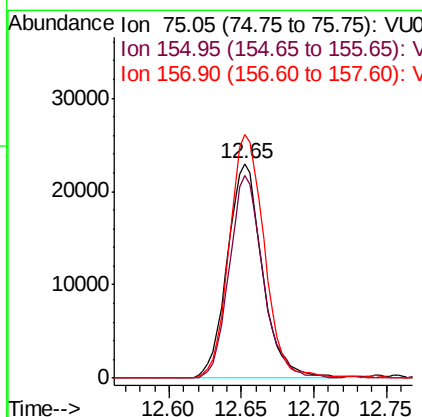
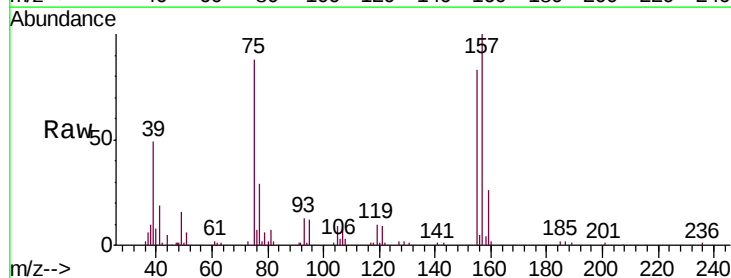
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02011

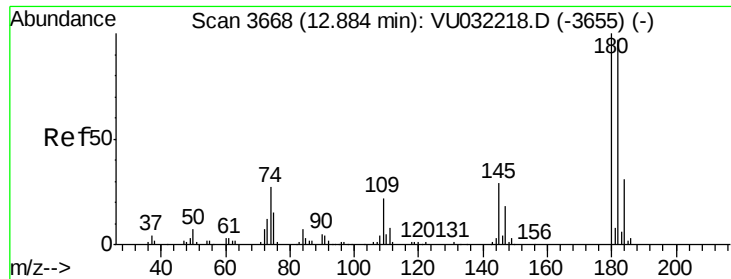
Tgt Ion: 146 Resp: 605620
 Ion Ratio Lower Upper
 146 100
 111 40.2 33.9 50.9
 148 63.6 54.3 81.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 18.643 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Tgt Ion: 75 Resp: 38634
 Ion Ratio Lower Upper
 75 100
 155 94.2 69.3 103.9
 157 113.3 90.6 135.8

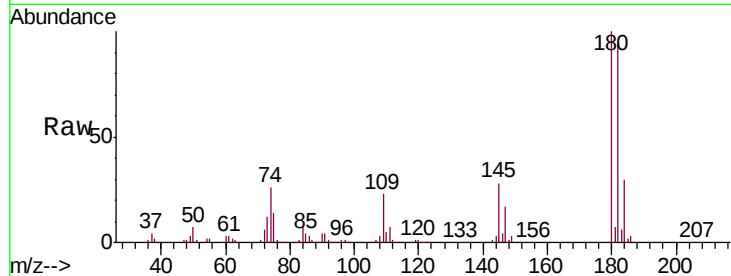




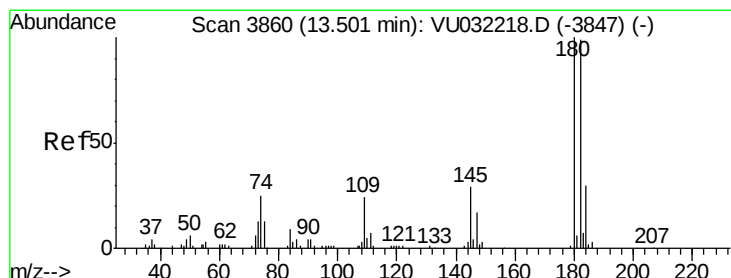
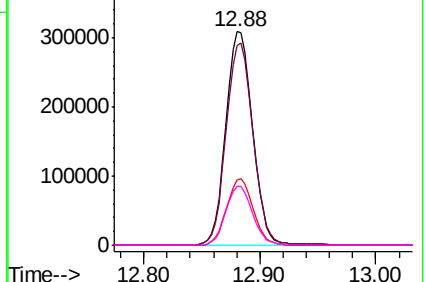
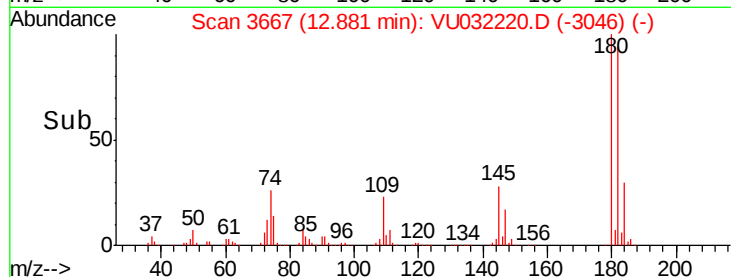
#67
 1,3,5-Trichlorobenzene
 Concen: 20.590 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. -0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02011

Tgt Ion:	180	Resp:	490077
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.2	114.4
184	30.7	24.3	36.5
145	27.6	23.6	35.4

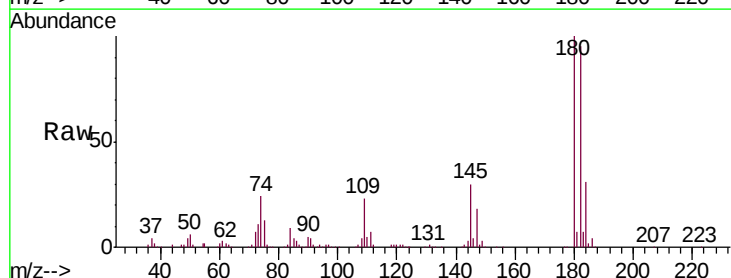


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

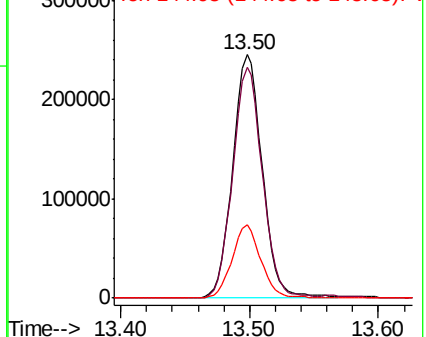
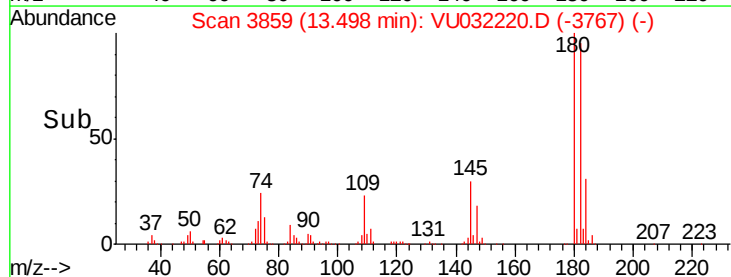


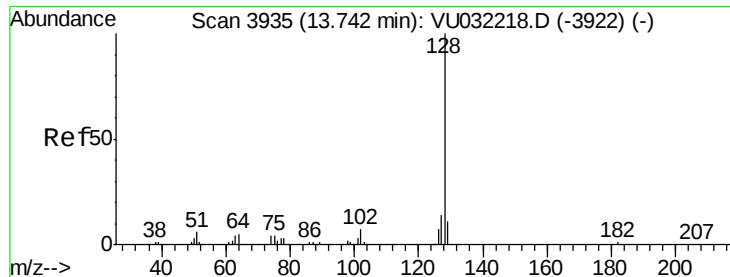
#68
 1,2,4-trichlorobenzene
 Concen: 23.780 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU032220.D
 Acq: 22 May 2019 14:11

Tgt Ion:	180	Resp:	391653
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.9	113.9
145	29.2	21.7	32.5



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 25.962 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02011

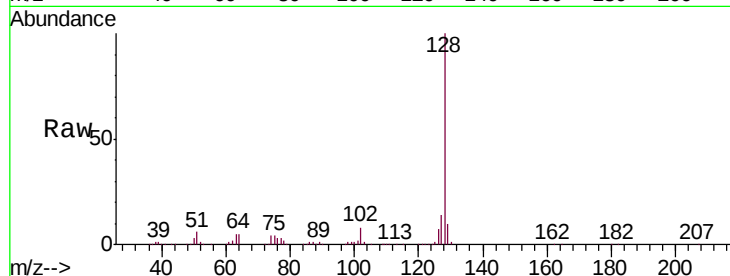
Tgt Ion:128 Resp: 648672

Ion Ratio Lower Upper

128 100

129 10.3 9.2 13.8

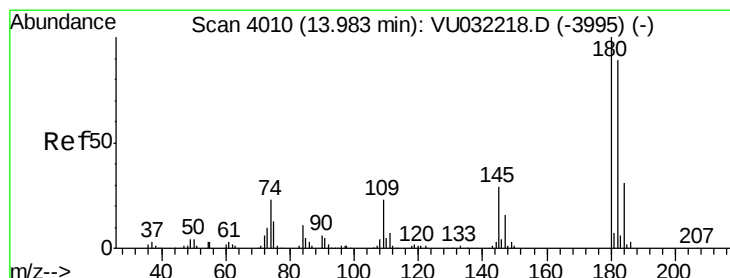
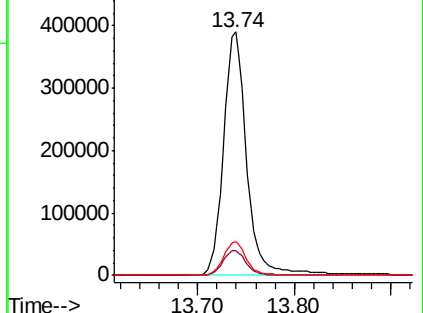
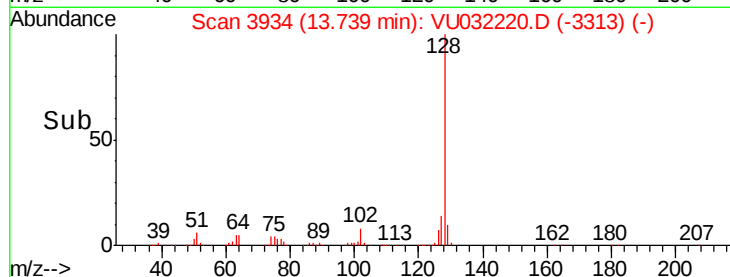
127 13.6 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 22.647 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032220.D

Acq: 22 May 2019 14:11

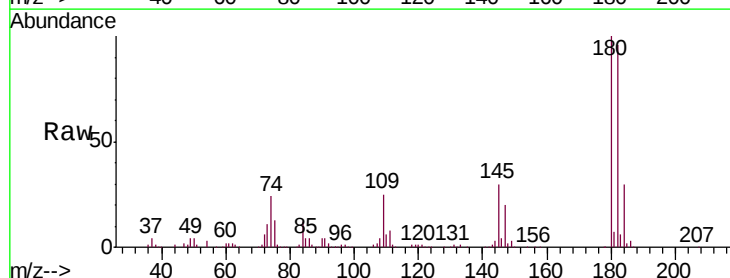
Tgt Ion:180 Resp: 378255

Ion Ratio Lower Upper

180 100

182 95.3 74.6 111.8

145 31.0 23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

