

Data File : VU031984.D
Acq On : 14 May 2019 11:08
Operator : JC/SP
Sample : VSTD05052
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Quant Time: May 15 01:48:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 15 01:44:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1047706	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1080163	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	482184	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	449914	51.21	ug/L	0.00
7) Chloroethane-d5	1.67	69	370898	53.82	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	801394	46.71	ug/L	0.00
21) 2-Butanone-d5	4.17	46	661882	87.32	ug/L	0.00
24) Chloroform-d	4.64	84	760194	48.05	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	474035	46.30	ug/L	0.00
32) Benzene-d6	5.33	84	1577652	48.12	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	503548	44.34	ug/L	0.00
41) Toluene-d8	7.56	98	1424356	49.82	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	228325	46.81	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	437544	89.63	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	745388	48.04	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	511425	50.39	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	460208	41.296	ug/L	100
3) Chloromethane	1.32	50	517575	38.857	ug/L	100
5) Vinyl chloride	1.40	62	539901	42.630	ug/L	100
6) Bromomethane	1.61	94	282816	42.179	ug/L	100
8) Chloroethane	1.69	64	314071	44.947	ug/L	100
9) Trichlorofluoromethane	1.88	101	601465	41.806	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	371364	44.893	ug/L	100
12) 1,1-Dichloroethene	2.28	96	370965	45.925	ug/L	100
13) Acetone	2.32	43	635034	74.837	ug/L	100
14) Carbon disulfide	2.47	76	1181297	44.289	ug/L	100
15) Methyl Acetate	2.61	43	482785	37.635	ug/L #	100
16) Methylene chloride	2.70	84	448143	46.763	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	388669	46.029	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	1209984	45.394	ug/L	100
19) 1,1-Dichloroethane	3.44	63	757002	43.401	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	436728	48.108	ug/L	100
22) 2-Butanone	4.26	43	787739	83.474	ug/L	100
23) Bromochloromethane	4.54	128	211941	47.824	ug/L	100
25) Chloroform	4.67	83	742451	44.294	ug/L	100
27) 1,2-Dichloroethane	5.40	62	578923	42.717	ug/L	100
29) Cyclohexane	4.99	56	671836	40.971	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	590155	40.450	ug/L	100
31) Carbon tetrachloride	5.13	117	496024	39.939	ug/L	100
33) Benzene	5.38	78	1726502	44.450	ug/L	100
34) Trichloroethene	6.18	95	414463	44.043	ug/L	100
35) Methylcyclohexane	6.41	83	667192	46.856	ug/L	100
37) 1,2-Dichloropropane	6.43	63	459018	42.052	ug/L	100
38) Bromodichloromethane	6.75	83	549360	41.582	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	678753	46.100	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	1295244	78.410	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1826967	46.902	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	588873	44.632	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	411693	45.187	ug/L	100
46) Tetrachloroethene	8.22	164	295781	45.548	ug/L	100
48) 2-Hexanone	8.36	43	1064291	80.033	ug/L	100
49) Dibromochloromethane	8.47	129	416304	44.167	ug/L	100
50) 1,2-Dibromoethane	8.58	107	438590	45.337	ug/L	100
51) Chlorobenzene	9.12	112	1096198	47.241	ug/L	100
52) Ethylbenzene	9.24	91	1933884	47.694	ug/L	100
53) m,p-Xylene	9.37	106	732021	50.833	ug/L	100
54) o-xylene	9.77	106	718687	50.770	ug/L	100
55) Styrene	9.79	104	1244373	51.606	ug/L	100
56) Isopropylbenzene	10.16	105	1814246	49.101	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	739877	45.477	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	585395	44.546	ug/L	100
61) Bromoform	9.95	173	302720	43.274	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	769857	48.338	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	806243	48.721	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	817192	48.290	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	154789	40.929	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	562836	47.273	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	456420	48.600	ug/L	100
69) Naphthalene	13.74	128	1615745	50.250	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	509828	47.732	ug/L	100

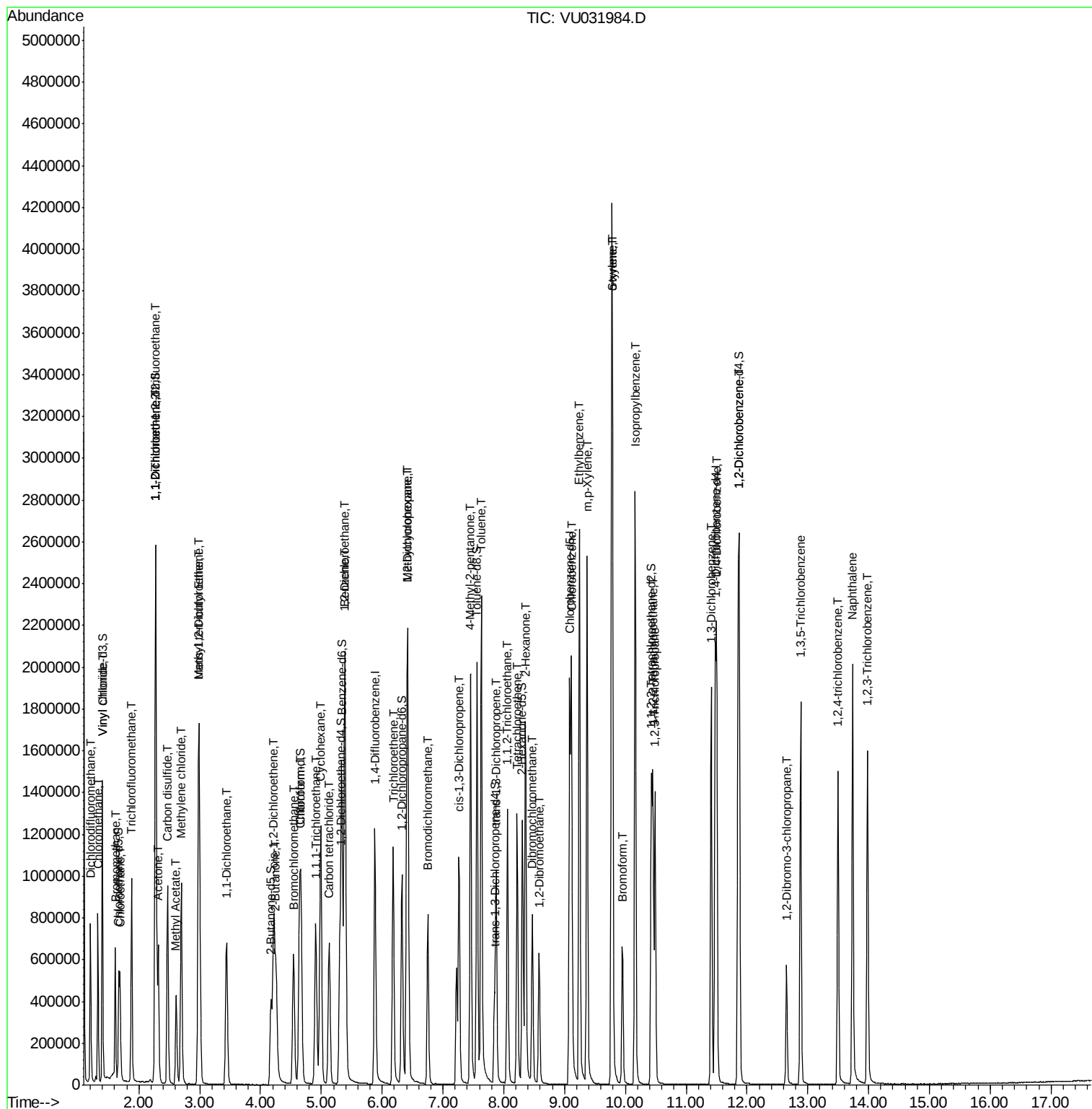
(#) = qualifier out of range (m) = manual integration (+) = signals summed

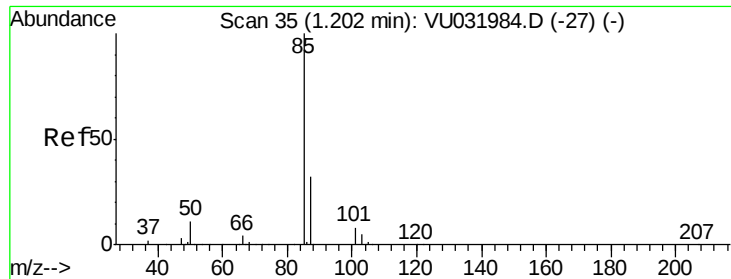
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#2

Dichlorodifluoromethane

Concen: 41.296 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031984.D

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Instrument :

MSVOA_U

ClientSampleId :

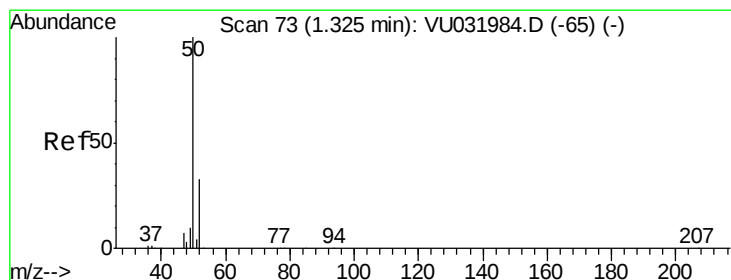
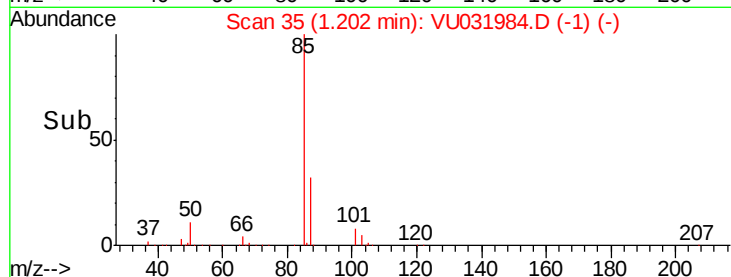
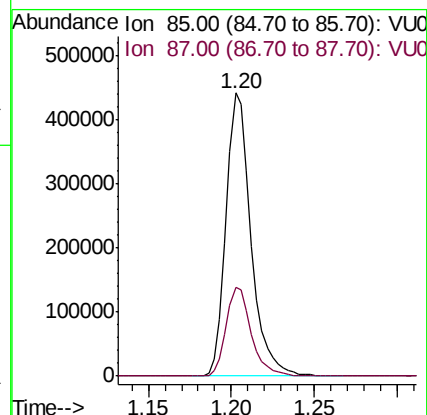
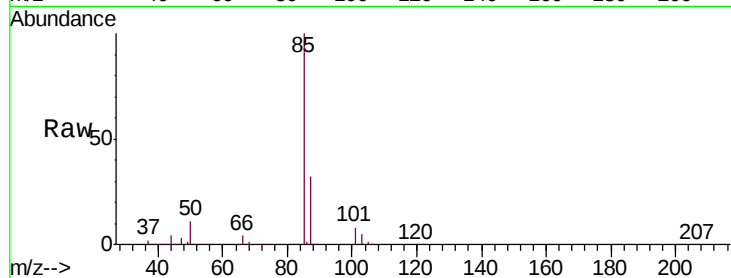
VSTD05052

Tgt Ion: 85 Resp: 460208

Ion Ratio Lower Upper

85 100

87 31.7 25.4 38.0



#3

Chloromethane

Concen: 38.857 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031984.D

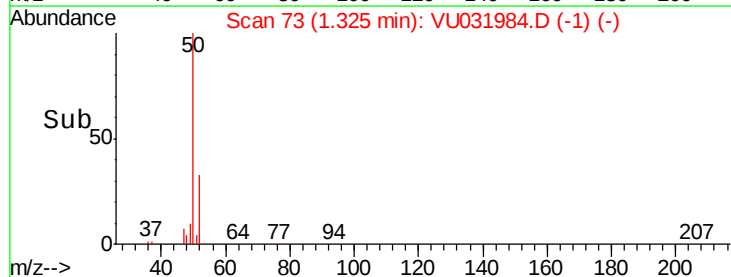
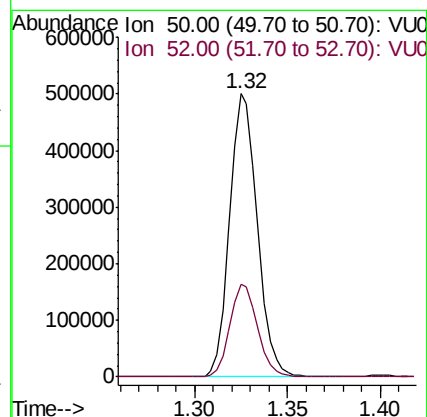
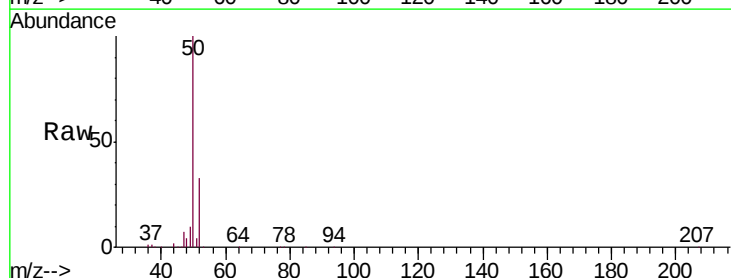
Acq: 14 May 2019 11:08

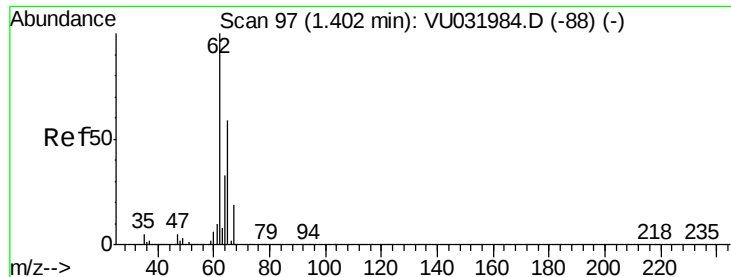
Tgt Ion: 50 Resp: 517575

Ion Ratio Lower Upper

50 100

52 32.8 23.0 42.6





#5

Vinyl chloride

Concen: 42.630 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

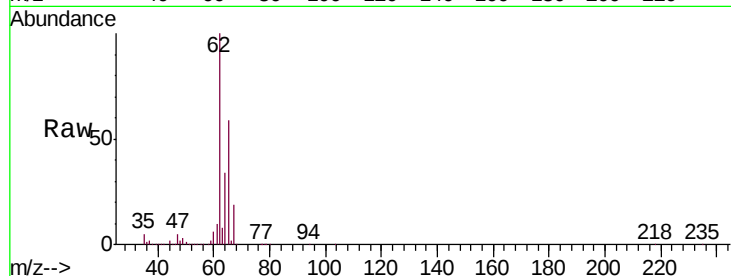
VSTD05052

Tgt Ion: 62 Resp: 539901

Ion Ratio Lower Upper

62 100

64 33.7 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU031984.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031984.D (-88) (-)

1.40

500000

400000

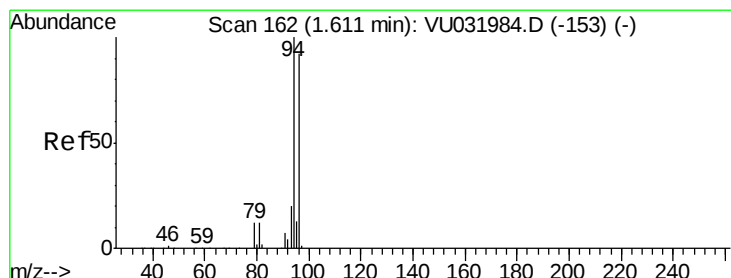
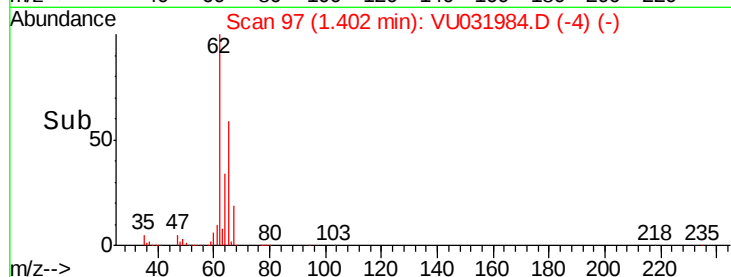
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 42.179 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU031984.D

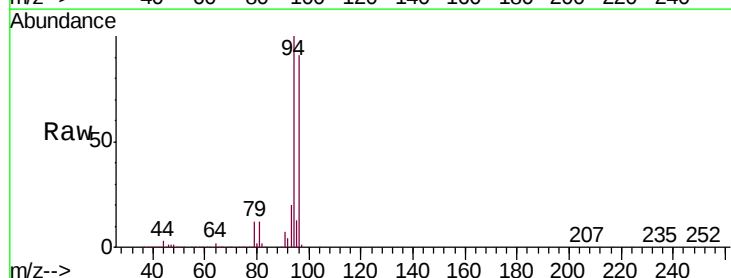
Acq: 14 May 2019 11:08

Tgt Ion: 94 Resp: 282816

Ion Ratio Lower Upper

94 100

96 91.4 64.0 118.8



Abundance Ion 94.00 (93.70 to 94.70): VU031984.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU031984.D (-153) (-)

1.61

250000

200000

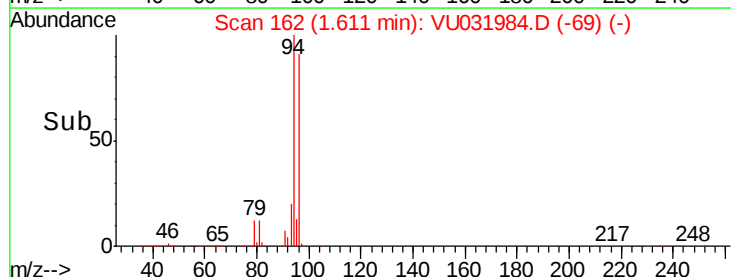
150000

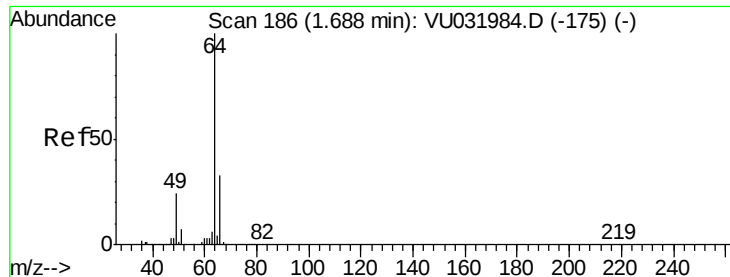
100000

50000

0

Time-->





#8

Chloroethane

Concen: 44.947 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

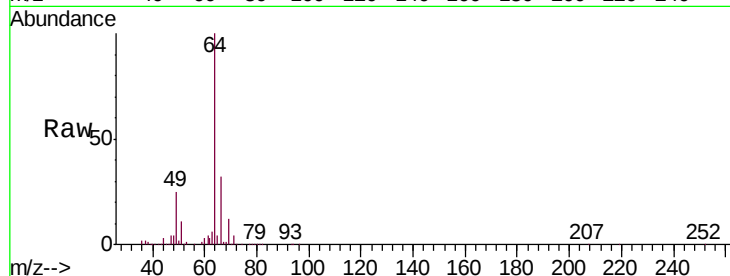
VSTD05052

Tgt Ion: 64 Resp: 314071

Ion Ratio Lower Upper

64 100

66 32.4 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VU031984.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU031984.D (-175) (-)

1.69

250000

200000

150000

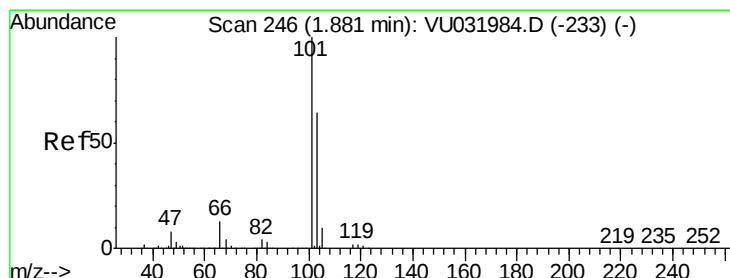
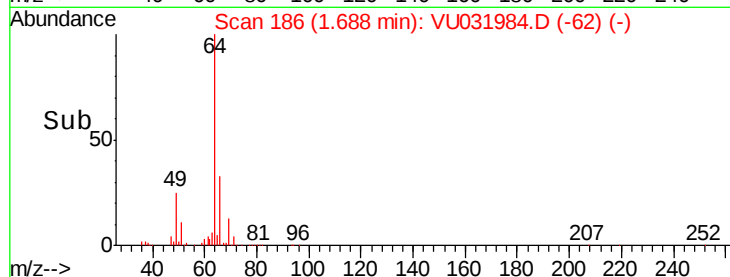
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 41.806 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031984.D

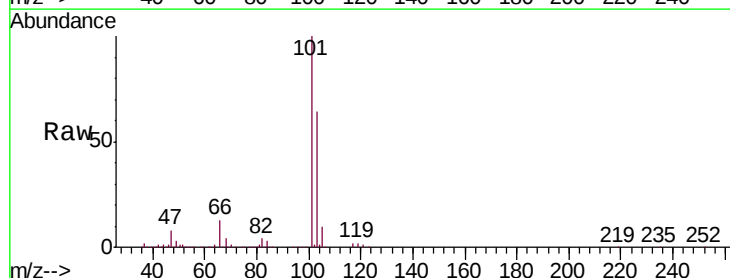
Acq: 14 May 2019 11:08

Tgt Ion: 101 Resp: 601465

Ion Ratio Lower Upper

101 100

103 65.2 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU031984.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU031984.D (-233) (-)

1.88

500000

400000

300000

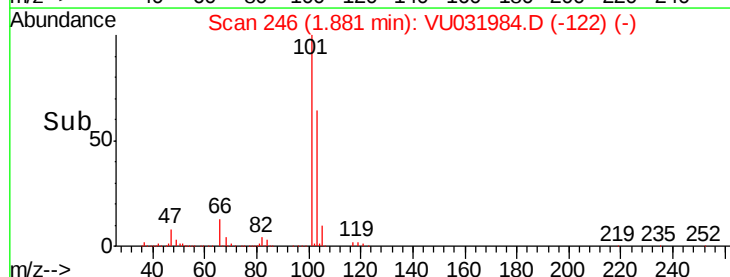
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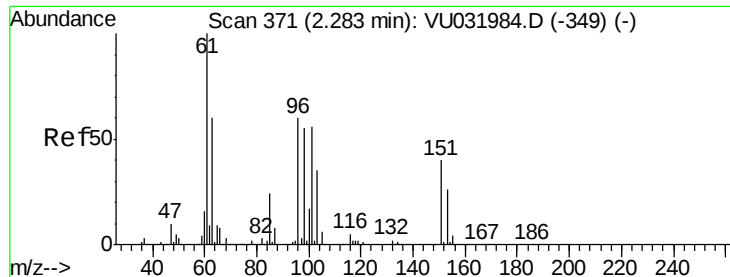
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 44.893 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

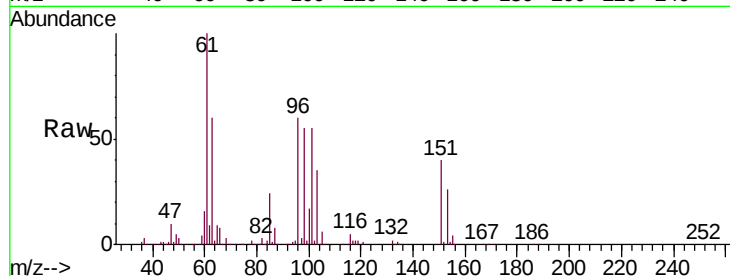
Tgt Ion:101 Resp: 371364

Ion Ratio Lower Upper

101 100

85 42.6 34.1 51.1

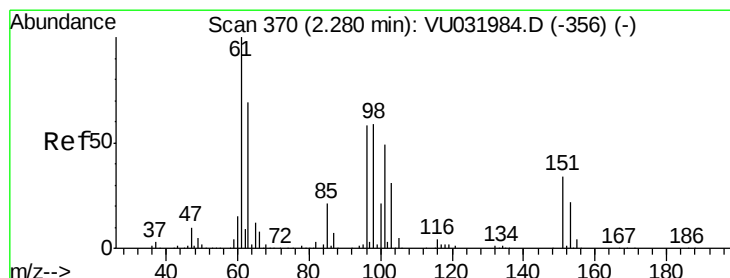
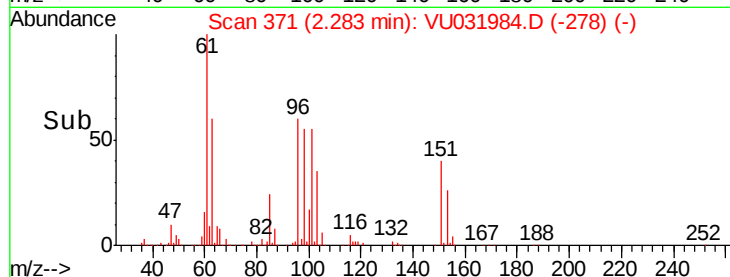
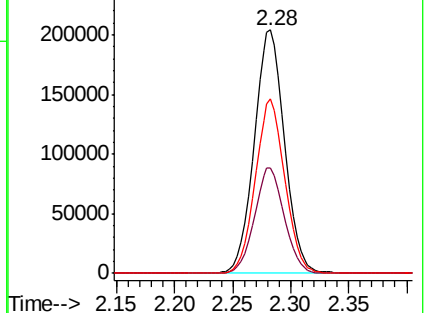
151 69.8 55.8 83.8



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: 45.925 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

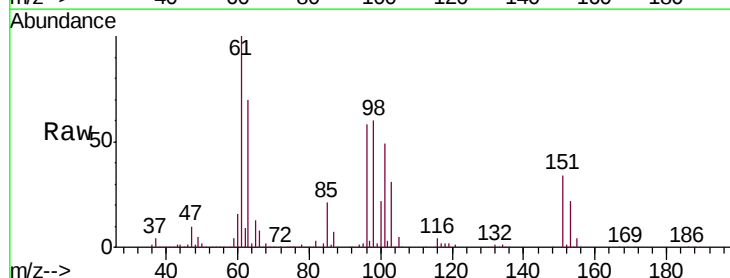
Tgt Ion: 96 Resp: 370965

Ion Ratio Lower Upper

96 100

61 172.7 120.9 224.5

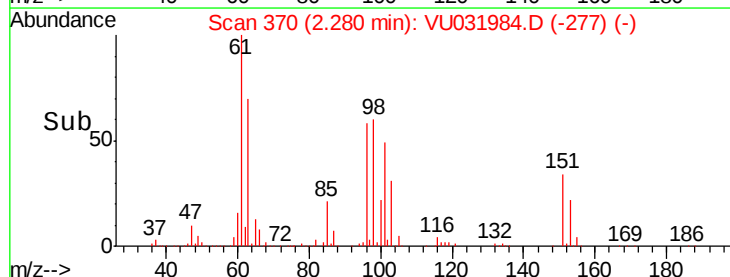
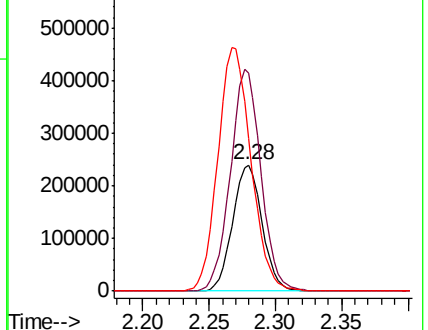
63 120.6 84.4 156.8

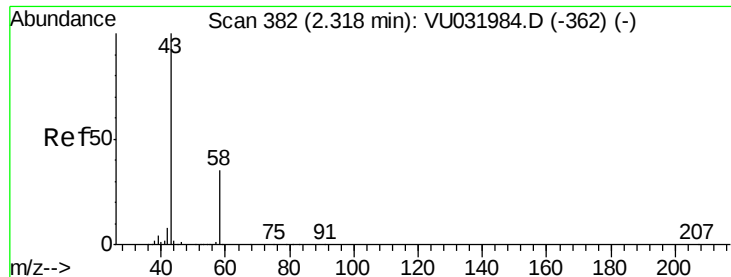


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 74.837 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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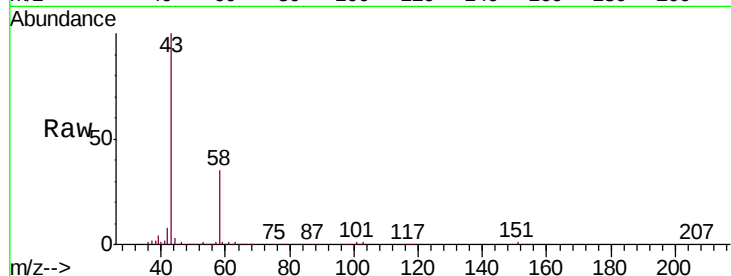
VSTD05052

Tgt Ion: 43 Resp: 635034

Ion Ratio Lower Upper

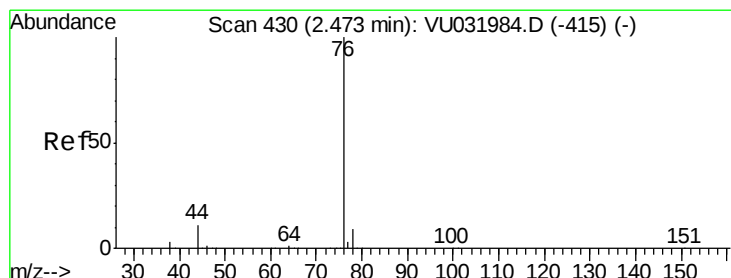
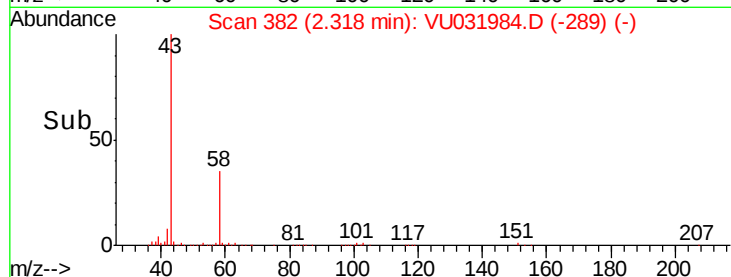
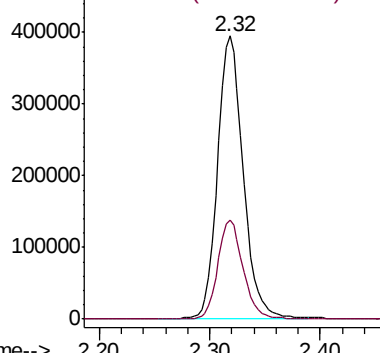
43 100

58 34.1 0.0 68.2



Abundance Ion 43.00 (42.70 to 43.70): VU031984.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU031984.D (-362) (-)



#14

Carbon disulfide

Concen: 44.289 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031984.D

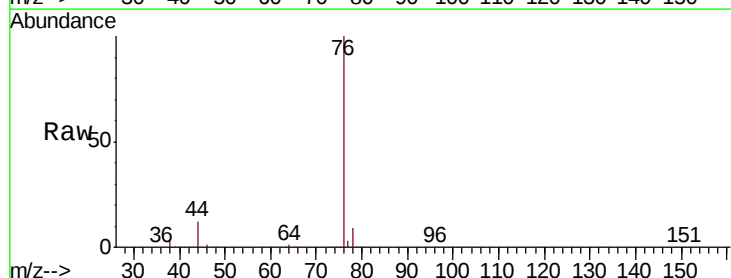
Acq: 14 May 2019 11:08

Tgt Ion: 76 Resp: 1181297

Ion Ratio Lower Upper

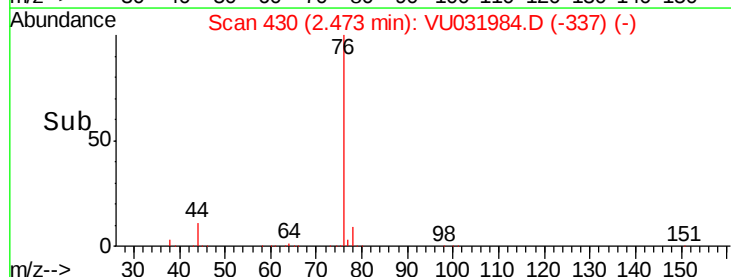
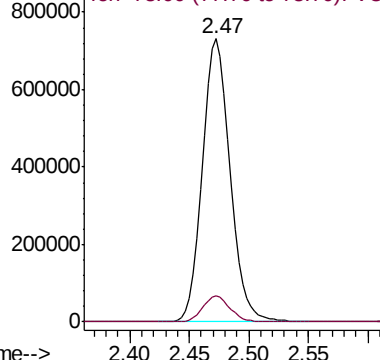
76 100

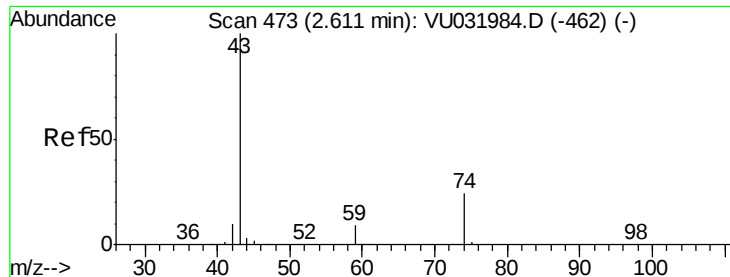
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU031984.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031984.D (-415) (-)





#15

Methyl Acetate

Concen: 37.635 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU031984.D

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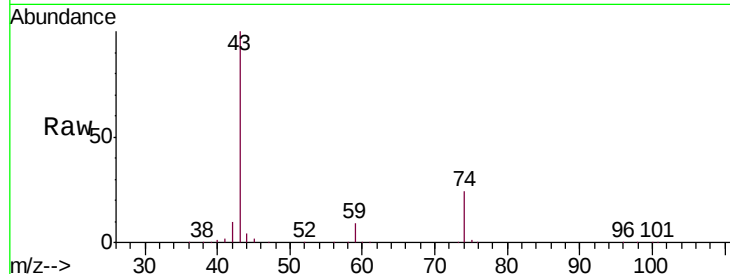
VSTD05052

Tgt Ion: 43 Resp: 482785

Ion Ratio Lower Upper

43 100

74 24.7 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VU031984.D (-462) (-)

Ion 74.00 (73.70 to 74.70): VU031984.D (-462) (-)

2.61

300000

250000

200000

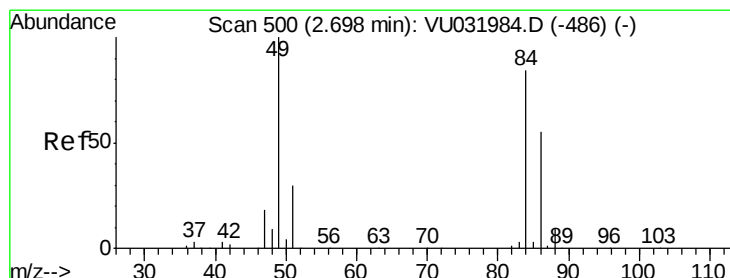
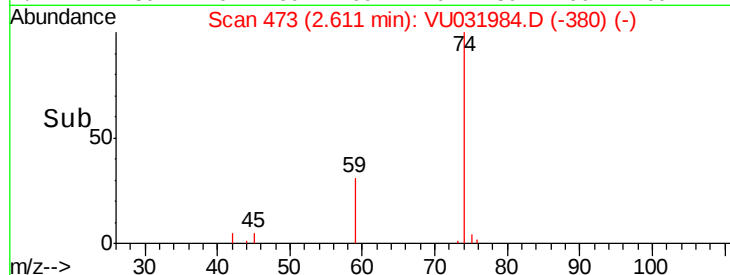
150000

100000

50000

0

Time--> 2.50 2.60 2.70



#16

Methylene chloride

Concen: 46.763 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

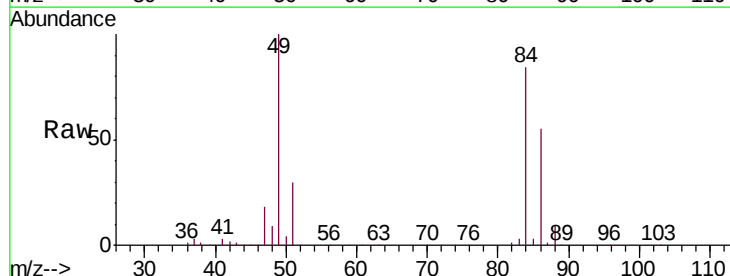
Tgt Ion: 84 Resp: 448143

Ion Ratio Lower Upper

84 100

86 65.4 45.8 85.0

49 119.0 83.3 154.7



Abundance Ion 84.00 (83.70 to 84.70): VU031984.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU031984.D (-486) (-)

Ion 49.00 (48.70 to 49.70): VU031984.D (-486) (-)

400000

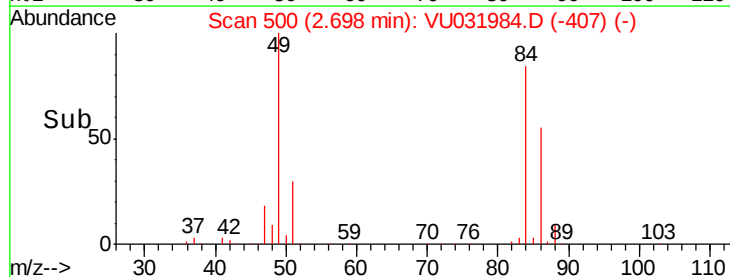
300000

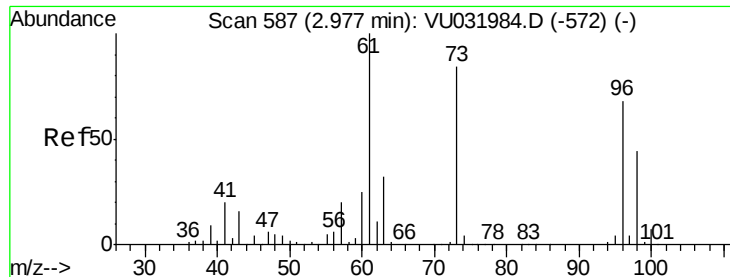
200000

100000

0

Time--> 2.60 2.65 2.70 2.75 2.80

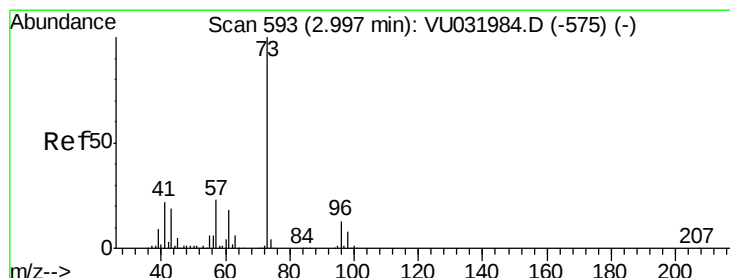
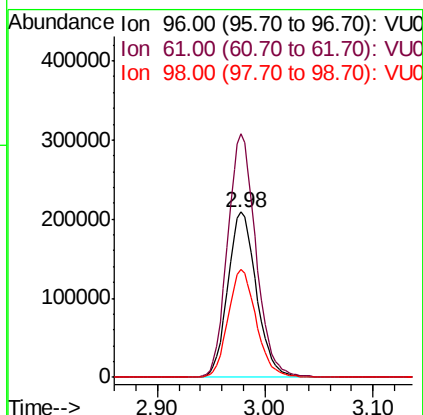
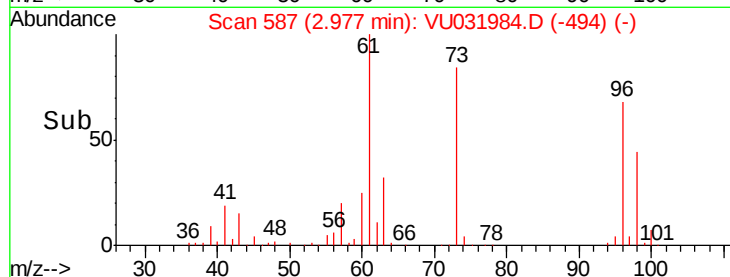
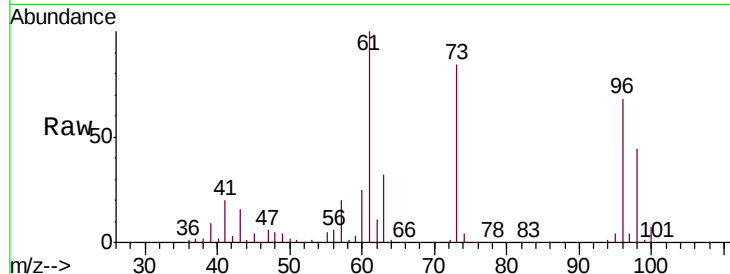




#17
trans-1,2-Dichloroethene
Concen: 46.029 ug/L
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

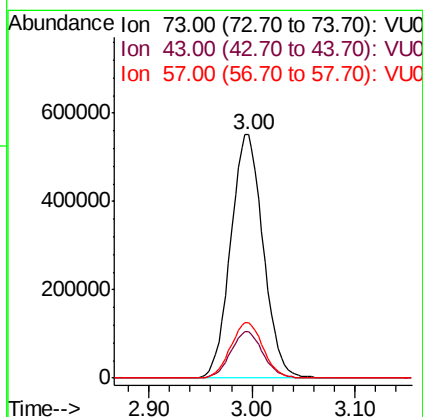
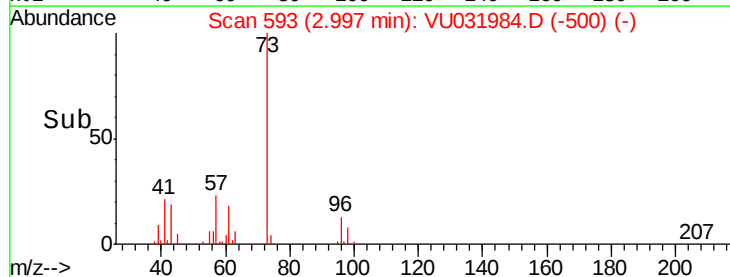
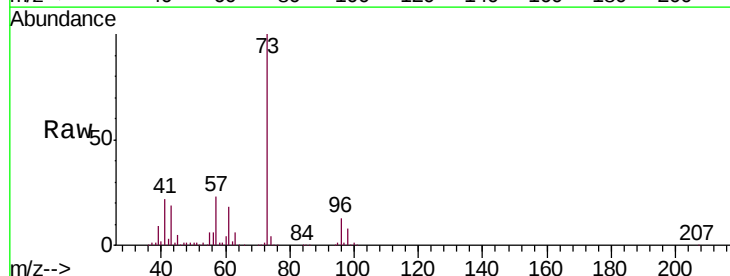
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

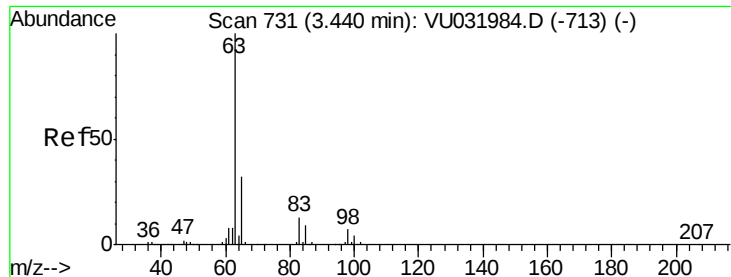
Tgt Ion: 96 Resp: 388669
Ion Ratio Lower Upper
96 100
61 147.4 103.2 191.6
98 65.3 45.7 84.9



#18
Methyl tert-butyl Ether
Concen: 45.394 ug/L
RT: 3.00 min Scan# 593
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

Tgt Ion: 73 Resp: 1209984
Ion Ratio Lower Upper
73 100
43 18.9 15.1 22.7
57 22.8 18.2 27.4

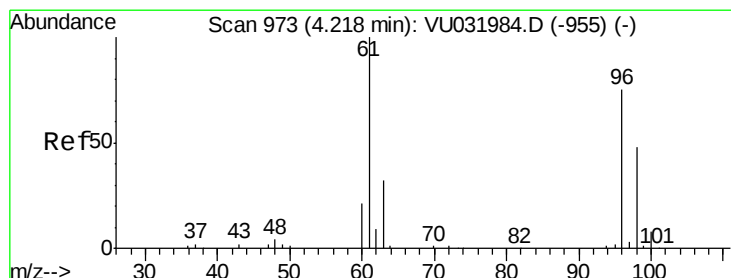
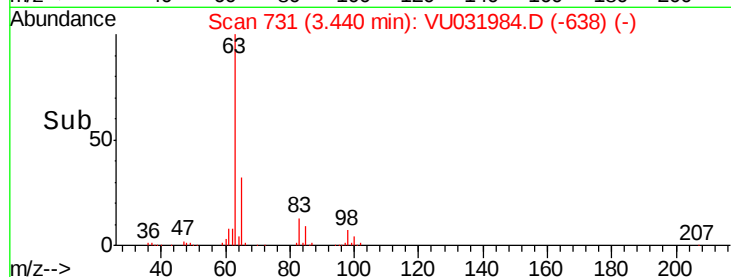
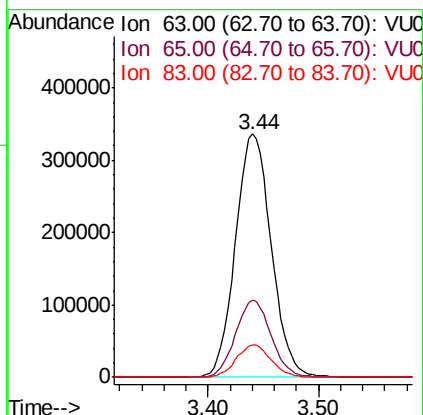
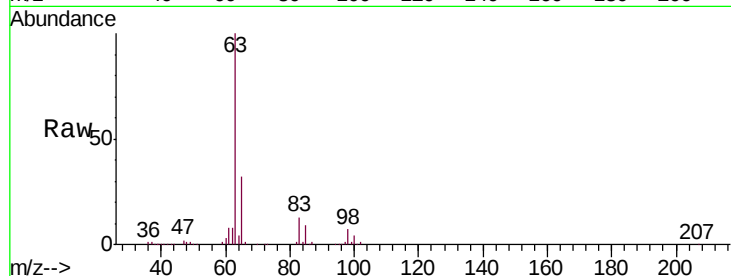




#19
 1,1-Dichloroethane
 Concen: 43.401 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

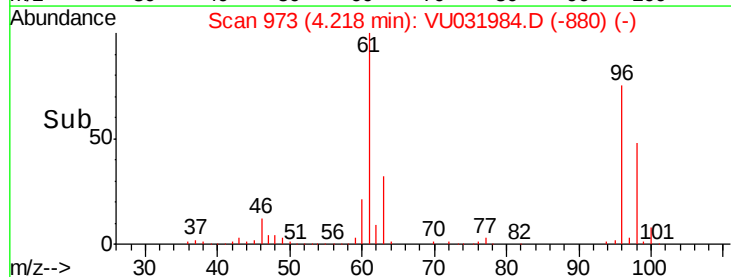
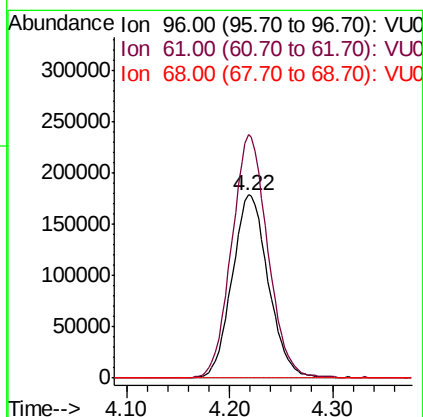
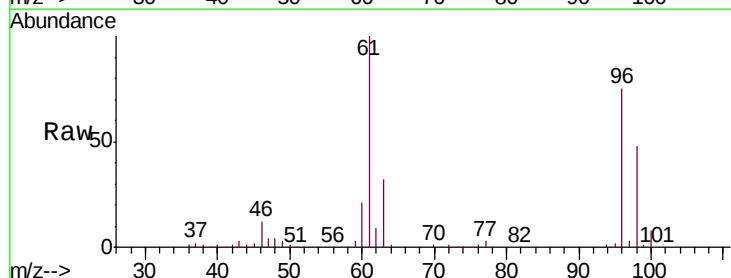
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

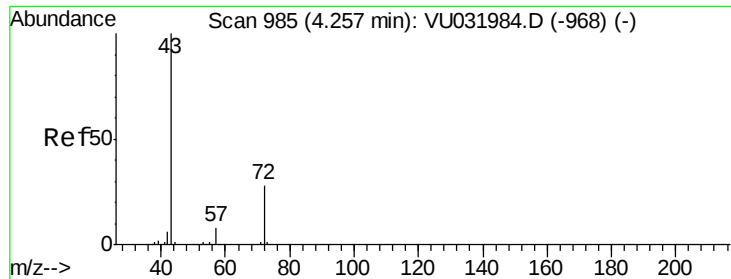
Tgt Ion: 63 Resp: 757002
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.2 41.2
 83 13.2 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 48.108 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion: 96 Resp: 436728
 Ion Ratio Lower Upper
 96 100
 61 132.9 93.0 172.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 83.474 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

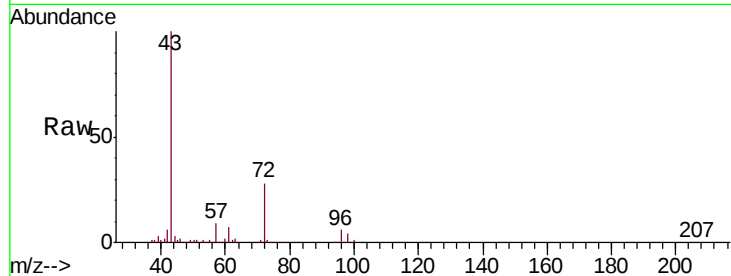
VSTD05052

Tgt Ion: 43 Resp: 787739

Ion Ratio Lower Upper

43 100

72 27.8 13.9 41.7



Abundance Ion 43.00 (42.70 to 43.70): VU031984.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU031984.D (-968) (-)

4.26

300000

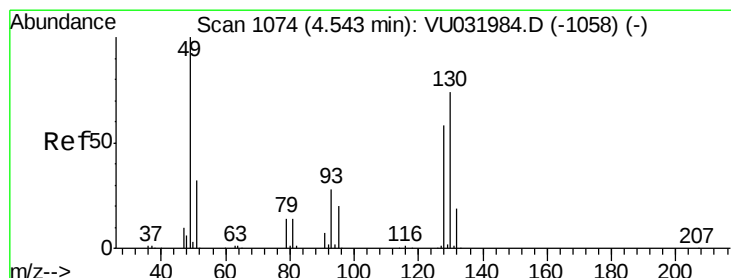
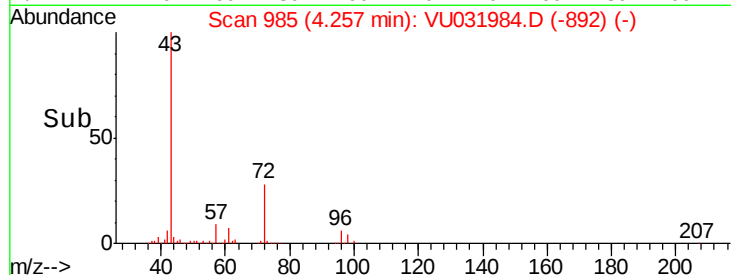
200000

100000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 47.824 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Tgt Ion: 128 Resp: 211941

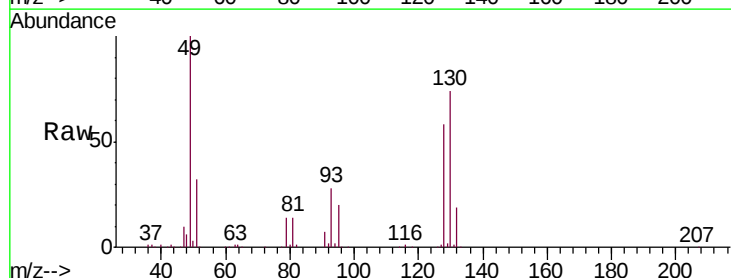
Ion Ratio Lower Upper

128 100

49 173.9 121.7 226.1

130 127.8 89.5 166.1

51 55.1 44.1 66.1



Abundance Ion 128.00 (127.70 to 128.70): VU031984.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031984.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031984.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031984.D (-1058) (-)

200000

150000

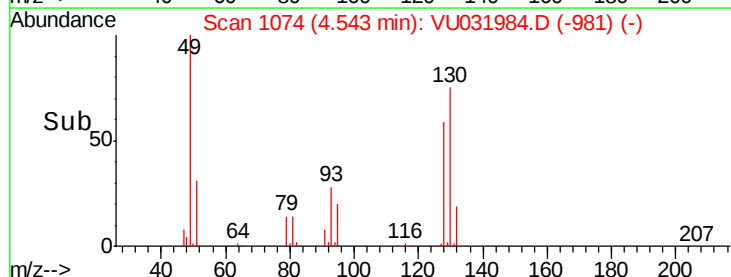
100000

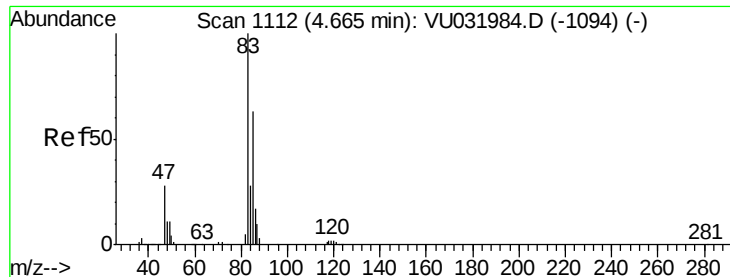
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 44.294 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

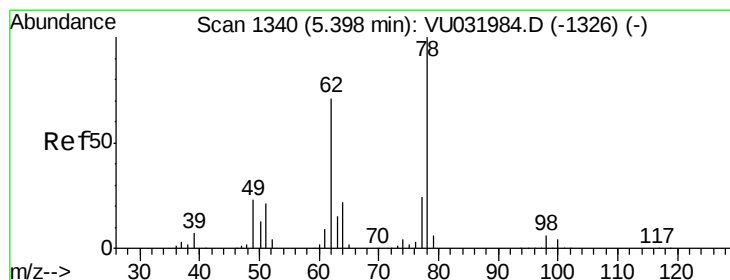
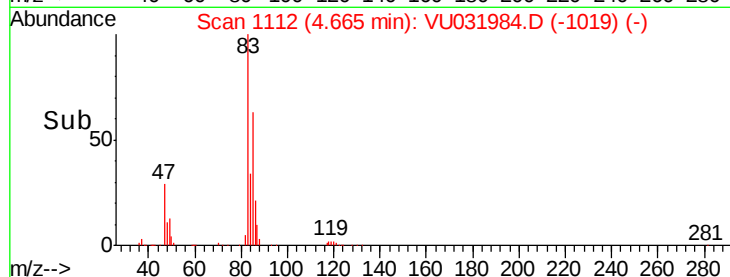
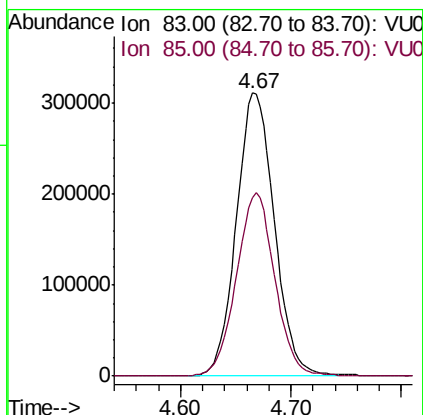
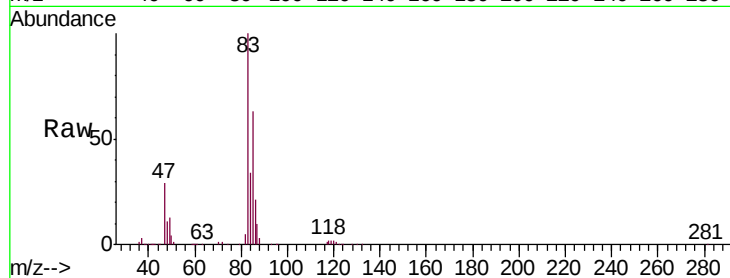
VSTD05052

Tgt Ion: 83 Resp: 742451

Ion Ratio Lower Upper

83 100

85 63.2 44.2 82.2



#27

1,2-Dichloroethane

Concen: 42.717 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU031984.D

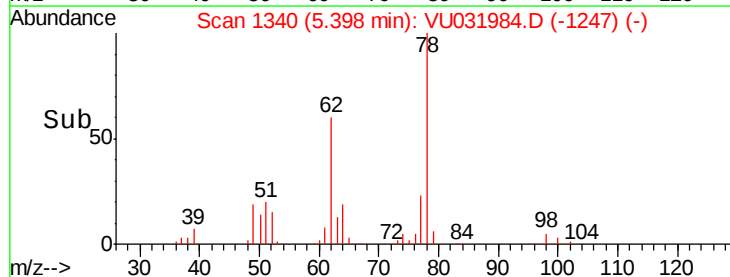
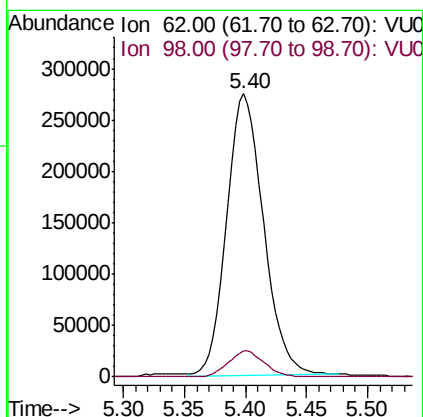
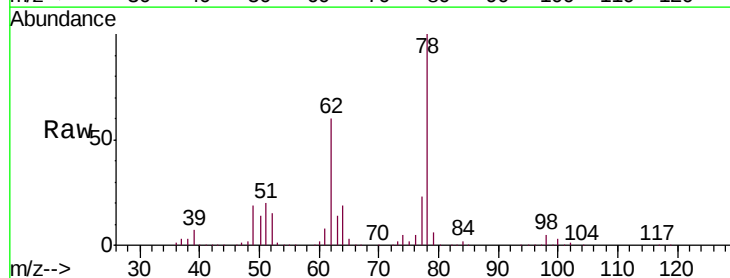
Acq: 14 May 2019 11:08

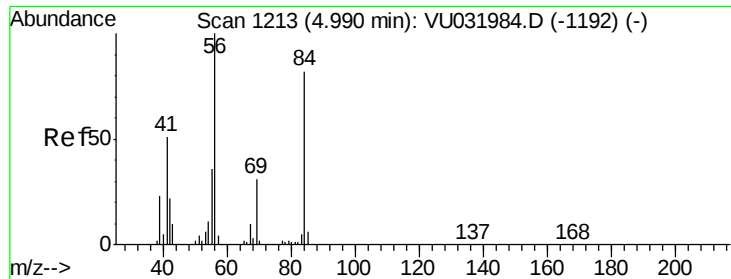
Tgt Ion: 62 Resp: 578923

Ion Ratio Lower Upper

62 100

98 9.0 7.2 10.8

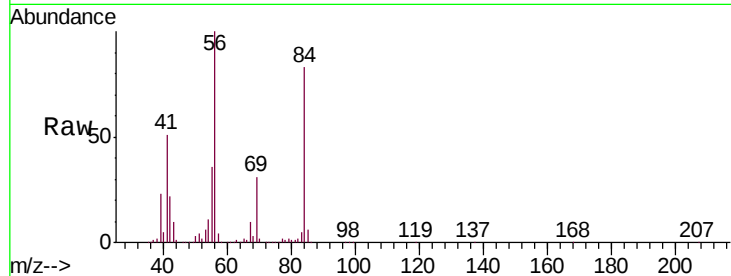




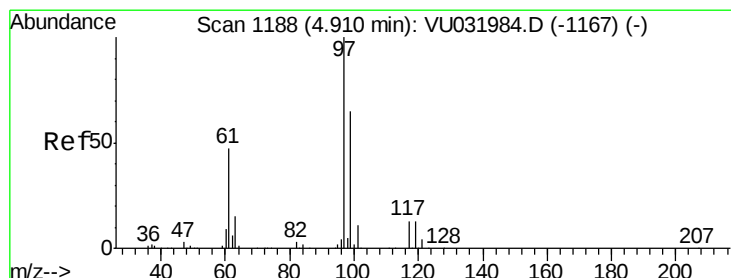
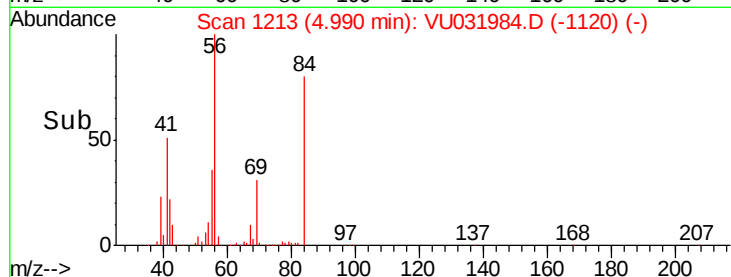
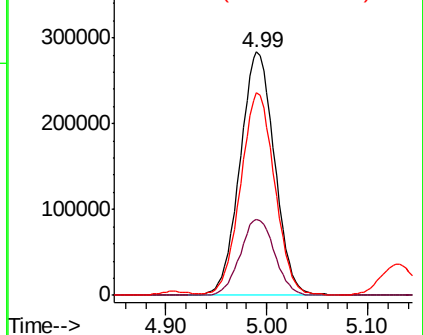
#29
Cyclohexane
Concen: 40.971 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion: 56 Resp: 671836
Ion Ratio Lower Upper
56 100
69 31.0 24.8 37.2
84 81.9 65.5 98.3

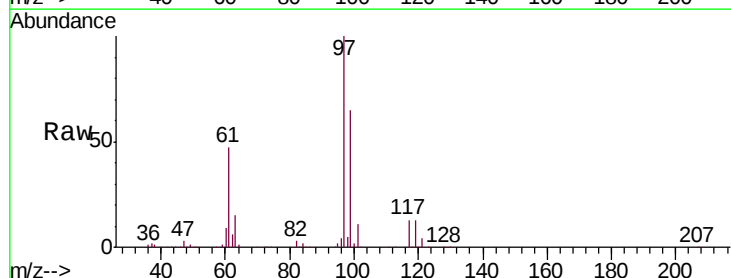


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

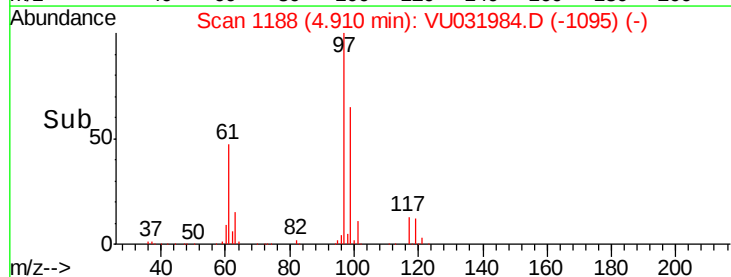
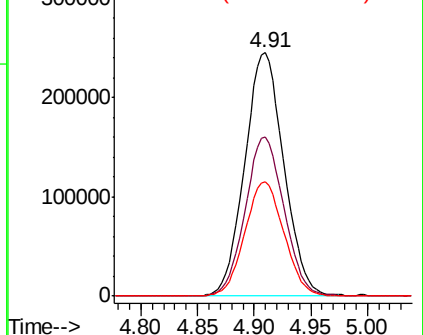


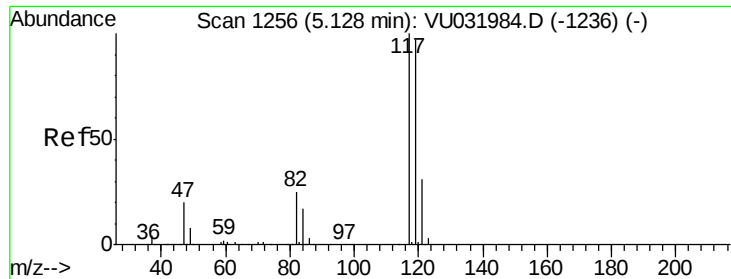
#30
1,1,1-Trichloroethane
Concen: 40.450 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

Tgt Ion: 97 Resp: 590155
Ion Ratio Lower Upper
97 100
99 64.8 51.8 77.8
61 46.9 37.5 56.3



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 39.939 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

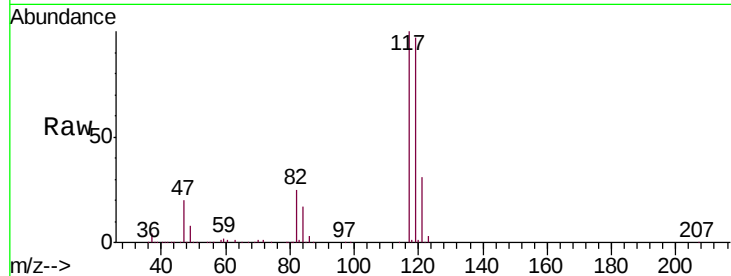
VSTD05052

Tgt Ion:117 Resp: 496024

Ion Ratio Lower Upper

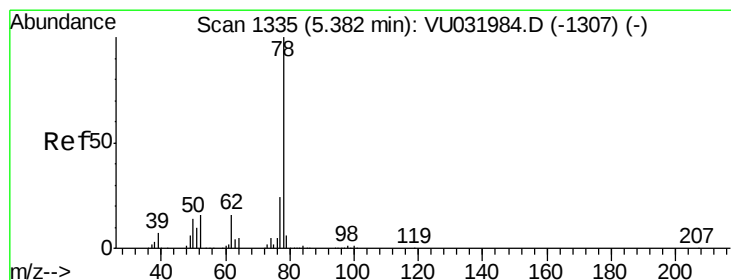
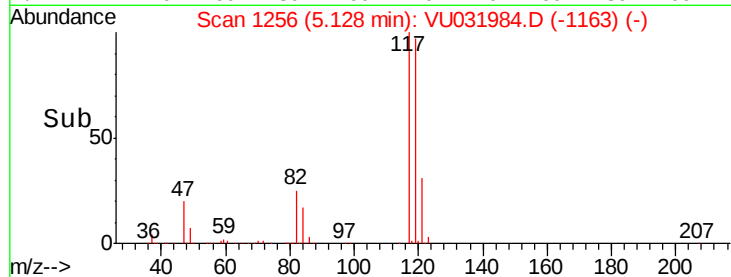
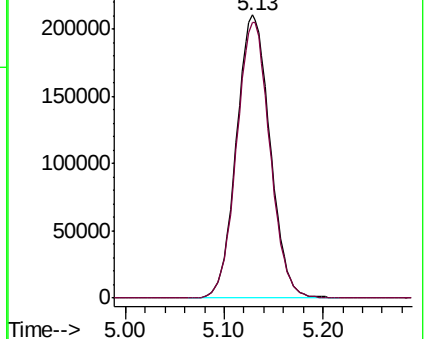
117 100

119 96.5 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 44.450 ug/L

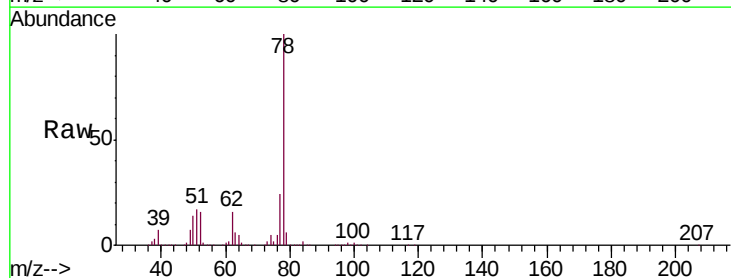
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

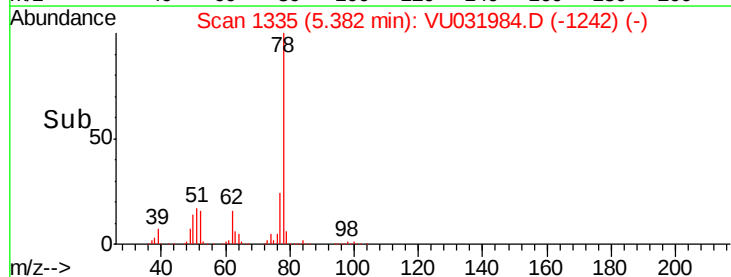
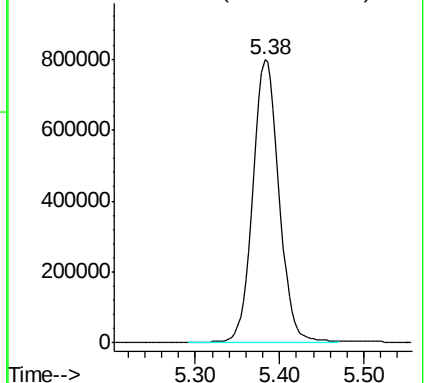
Lab File: VU031984.D

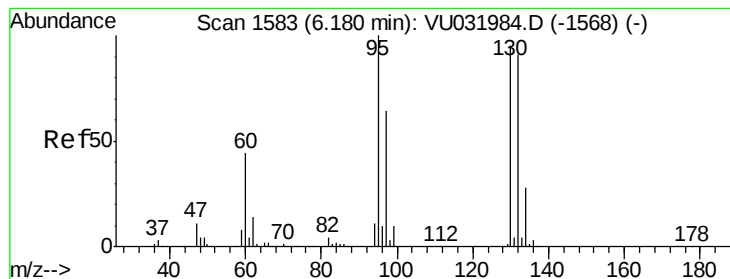
Acq: 14 May 2019 11:08

Tgt Ion: 78 Resp: 1726502



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 44.043 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 95 Resp: 414463

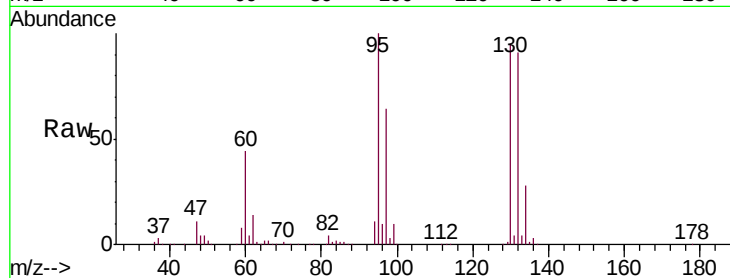
Ion Ratio Lower Upper

95 100

97 64.1 44.9 83.3

132 90.7 63.5 117.9

130 94.6 66.2 123.0



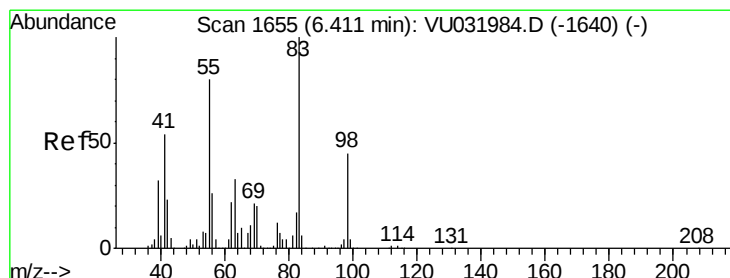
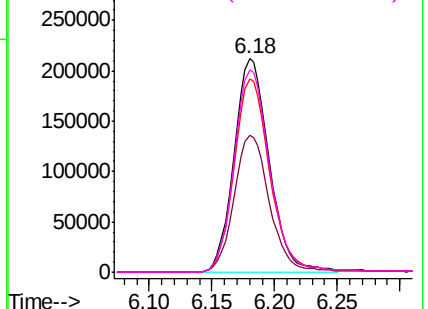
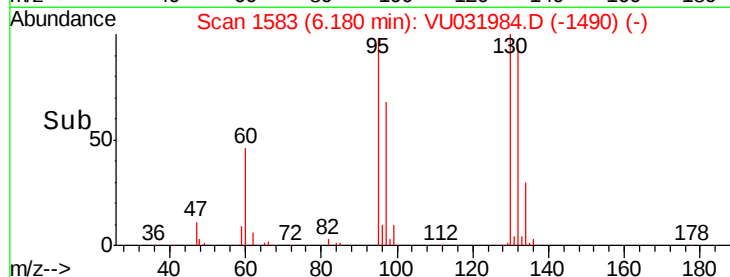
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 46.856 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

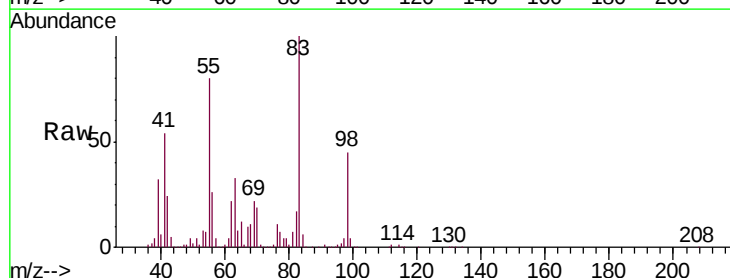
Tgt Ion: 83 Resp: 667192

Ion Ratio Lower Upper

83 100

55 80.0 64.0 96.0

98 44.5 35.6 53.4

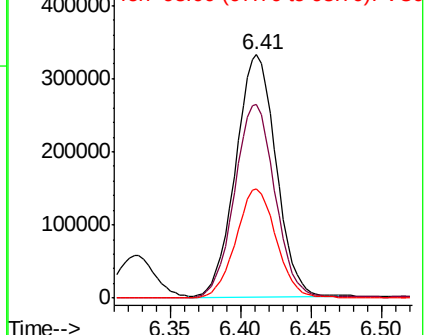
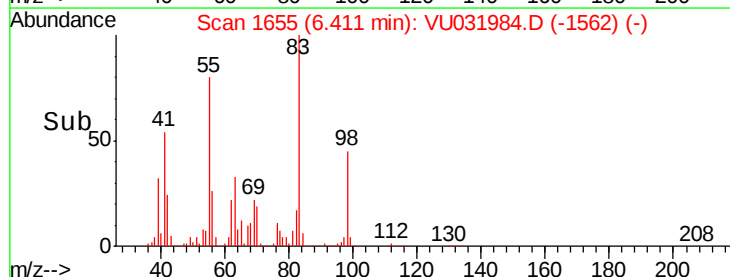


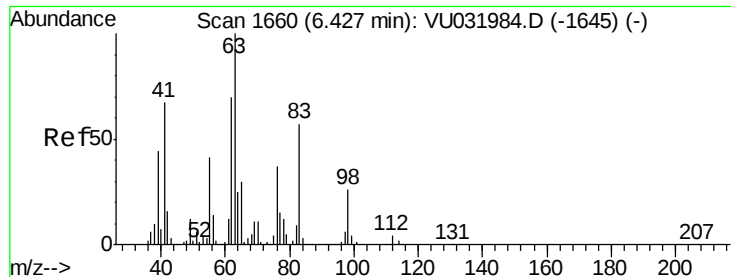
Abundance

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

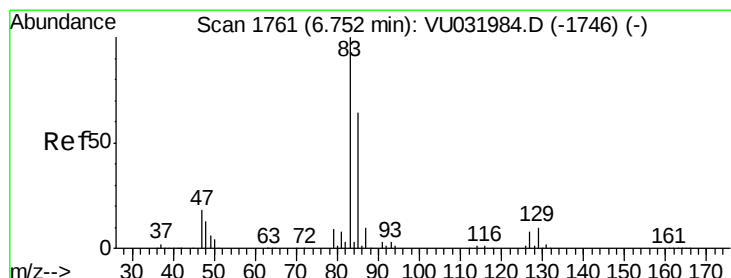
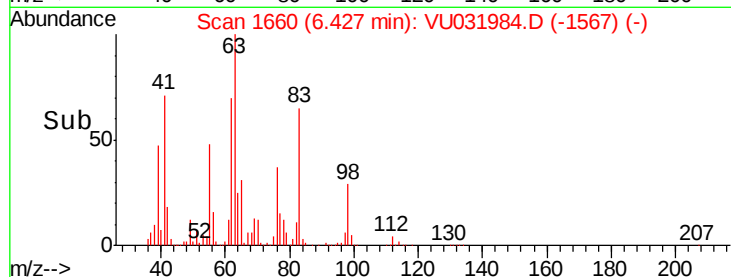
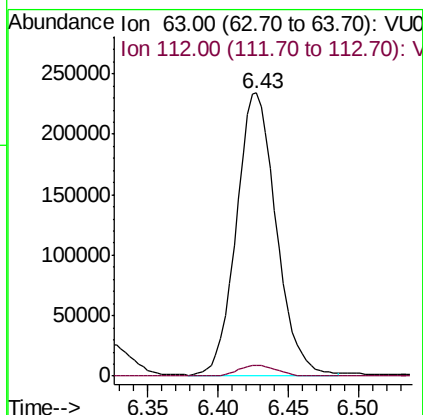
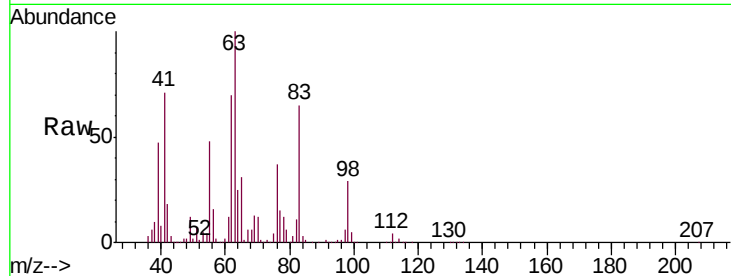




#37
 1,2-Dichloropropane
 Concen: 42.052 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

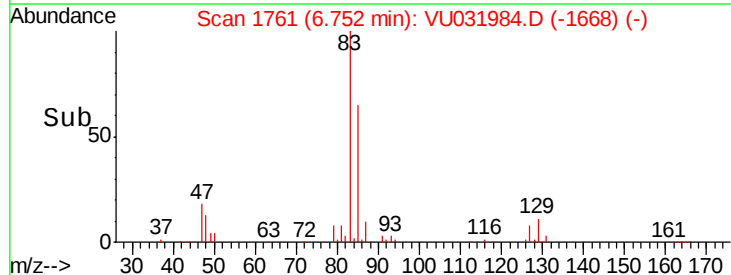
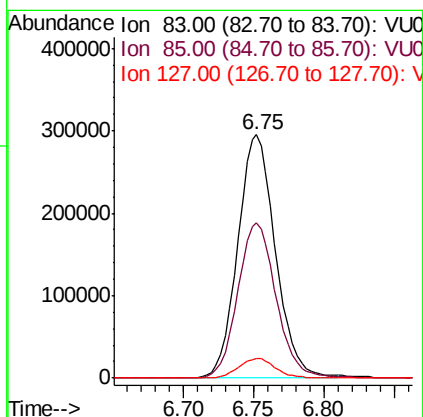
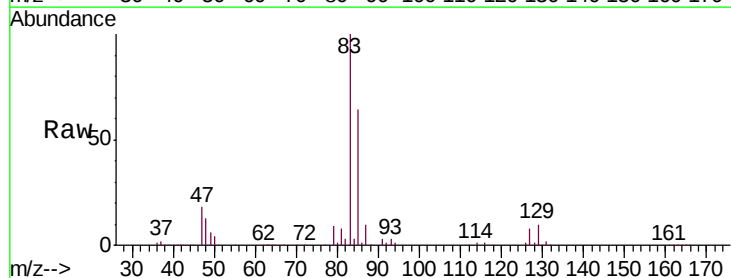
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

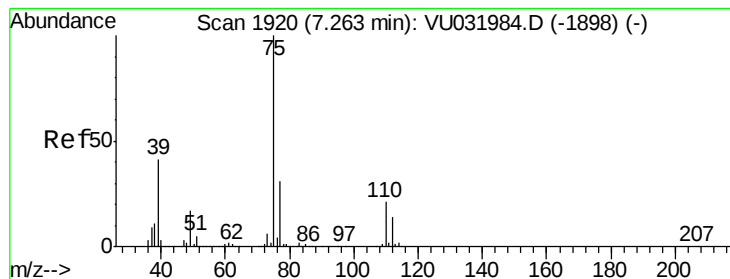
Tgt Ion: 63 Resp: 459018
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 41.582 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion: 83 Resp: 549360
 Ion Ratio Lower Upper
 83 100
 85 63.8 44.7 82.9
 127 8.1 6.5 9.7



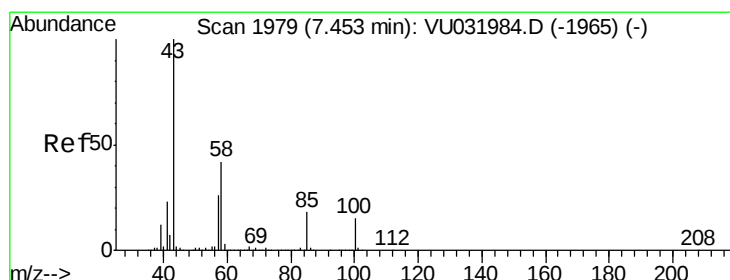
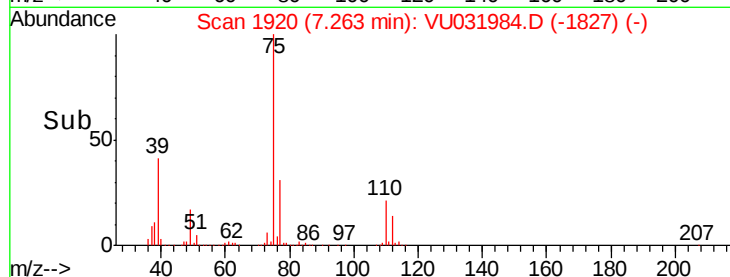
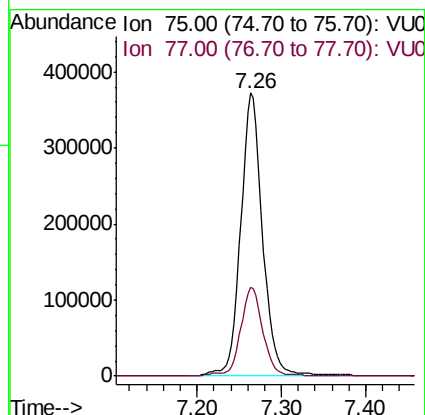
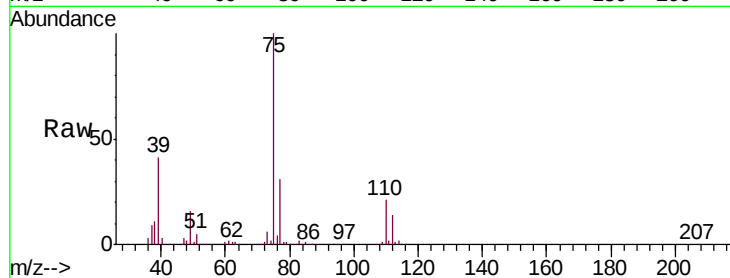


#39

cis-1,3-Dichloropropene
 Concen: 46.100 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

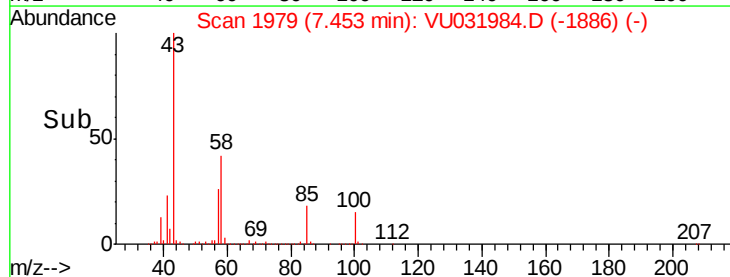
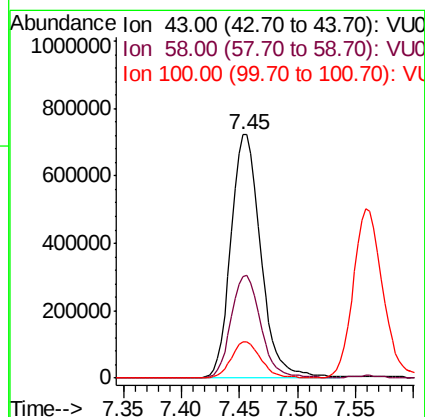
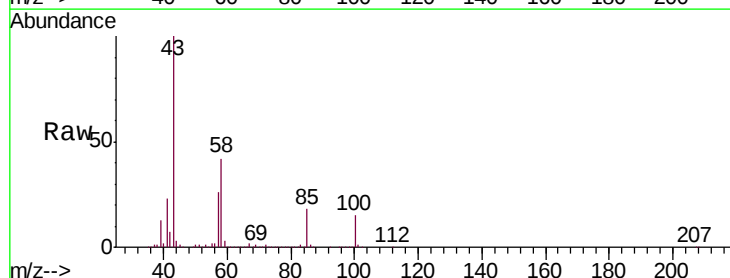
Tgt Ion: 75 Resp: 678753
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.8 40.6

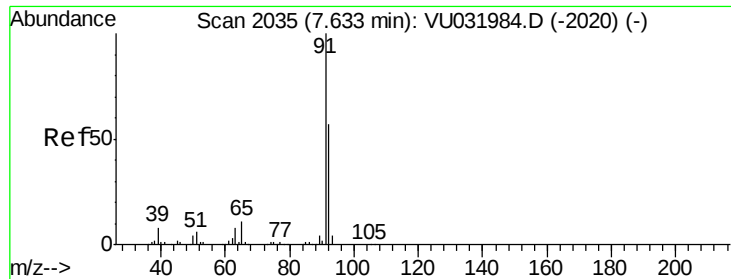


#40

4-Methyl-2-pentanone
 Concen: 78.410 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion: 43 Resp: 1295244
 Ion Ratio Lower Upper
 43 100
 58 42.0 33.6 50.4
 100 14.8 11.8 17.8





#42

Toluene

Concen: 46.902 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

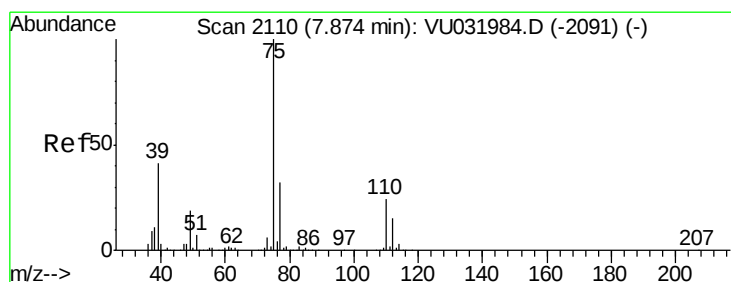
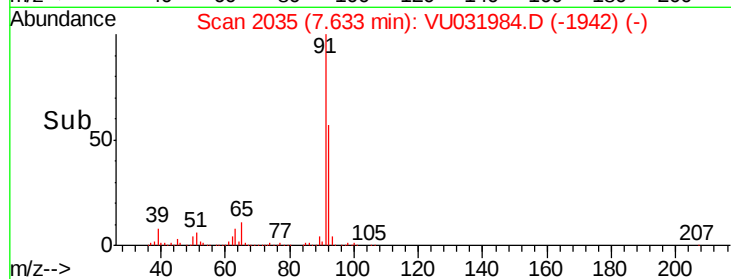
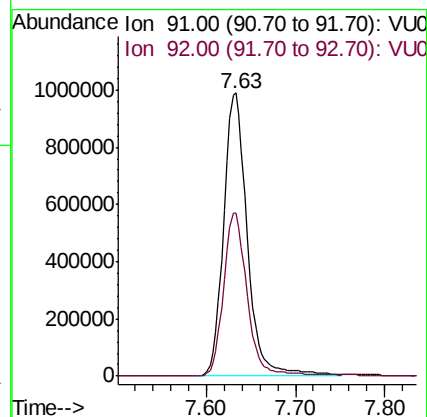
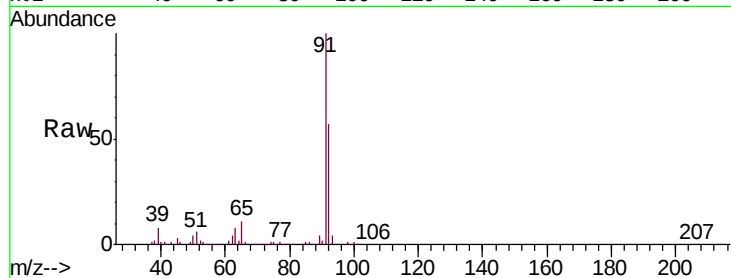
VSTD05052

Tgt Ion: 91 Resp: 1826967

Ion Ratio Lower Upper

91 100

92 57.4 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 44.632 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031984.D

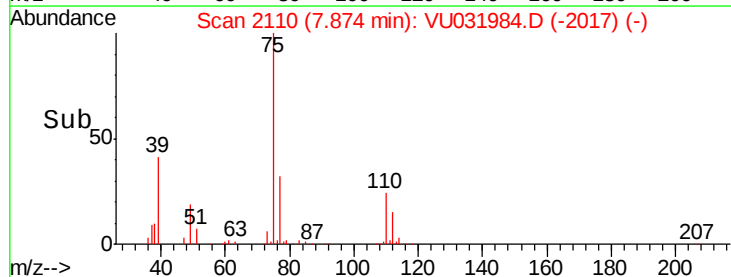
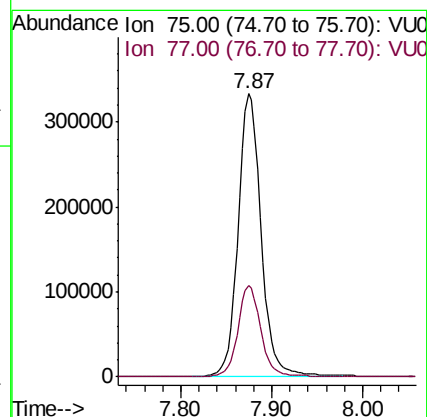
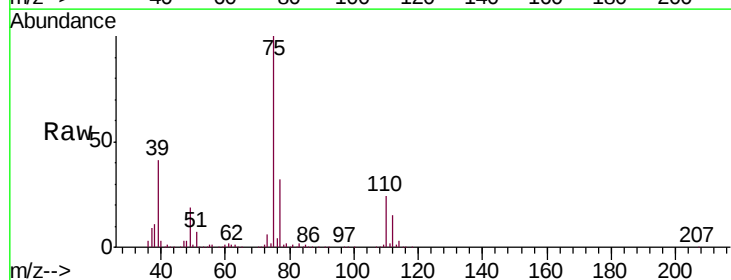
Acq: 14 May 2019 11:08

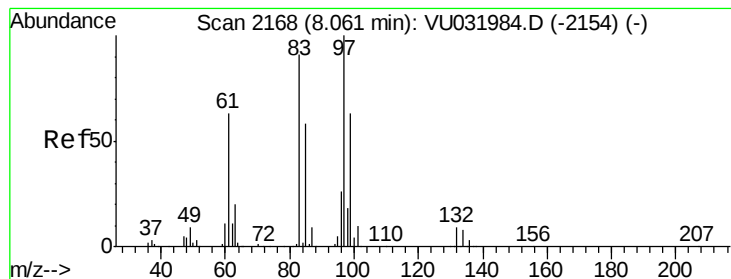
Tgt Ion: 75 Resp: 588873

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7





#45

1,1,2-Trichloroethane

Concen: 45.187 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 97 Resp: 411693

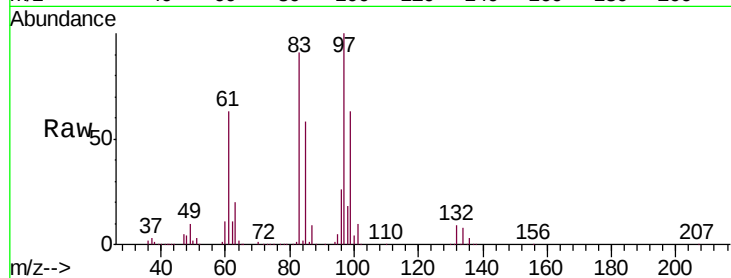
Ion Ratio Lower Upper

97 100

99 63.4 44.4 82.4

83 91.1 63.8 118.4

85 58.1 40.7 75.5

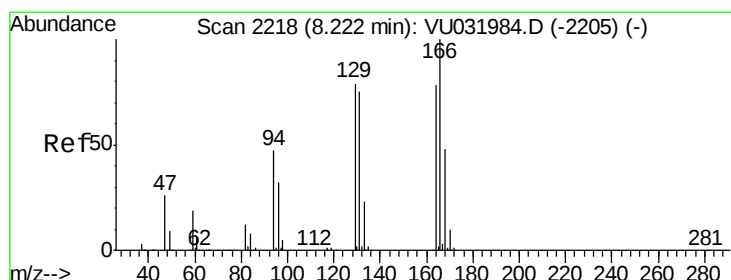
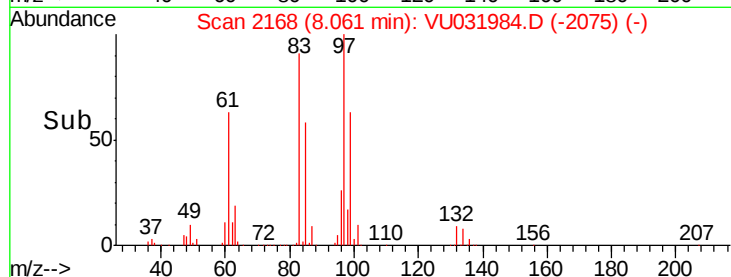
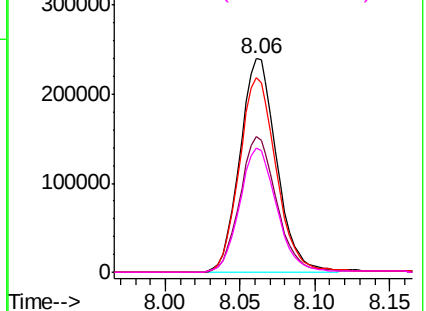


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 45.548 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Tgt Ion: 164 Resp: 295781

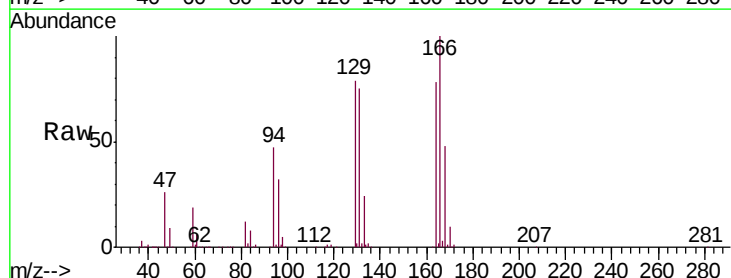
Ion Ratio Lower Upper

164 100

129 101.3 70.9 131.7

131 96.3 67.4 125.2

166 128.8 90.2 167.4

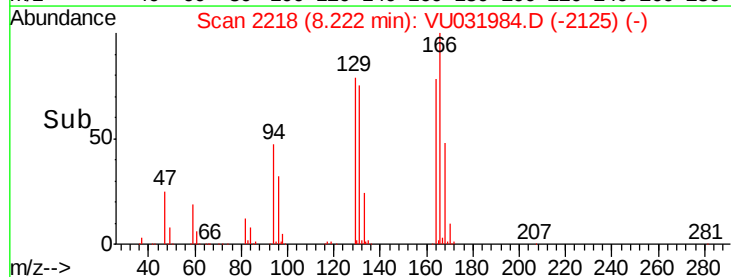
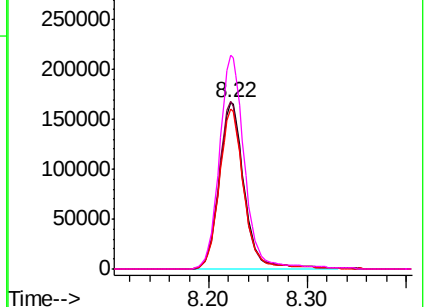


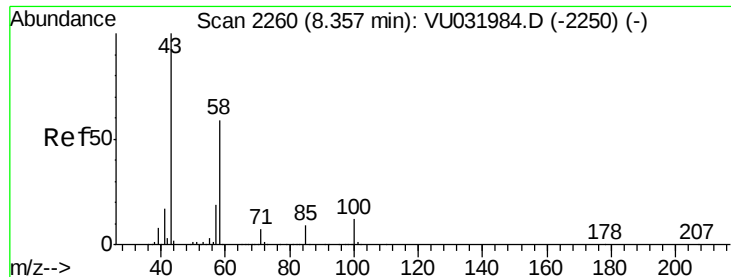
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

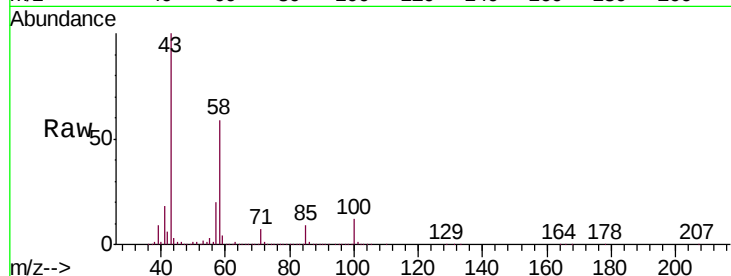




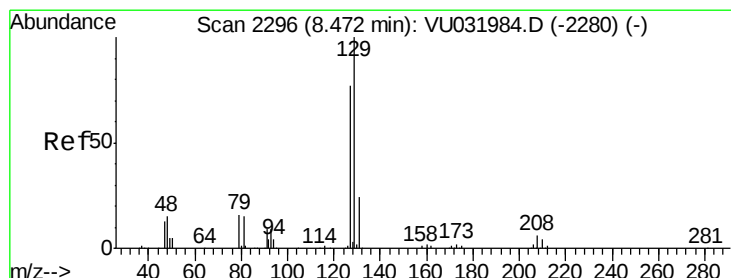
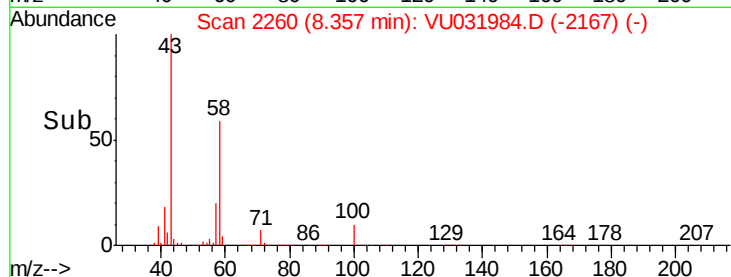
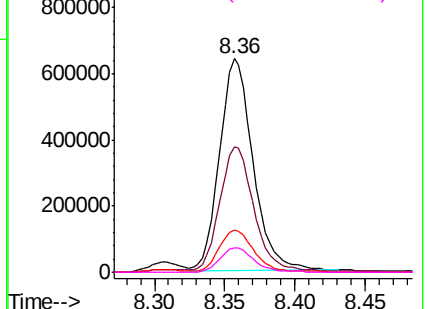
#48
2-Hexanone
Concen: 80.033 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion: 43 Resp: 1064291
Ion Ratio Lower Upper
43 100
58 59.7 47.8 71.6
57 20.0 16.0 24.0
100 12.0 9.6 14.4

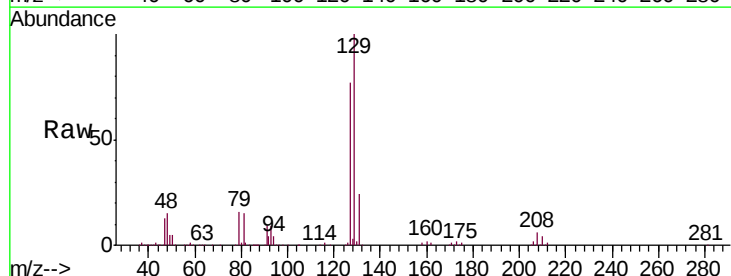


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

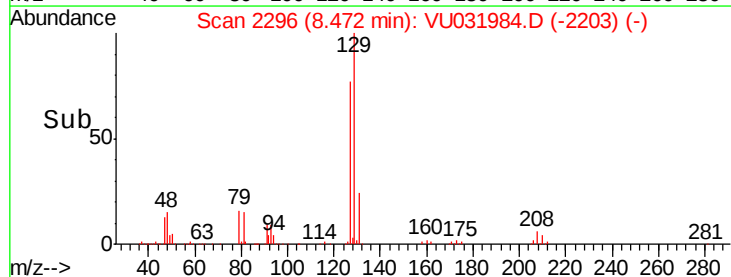
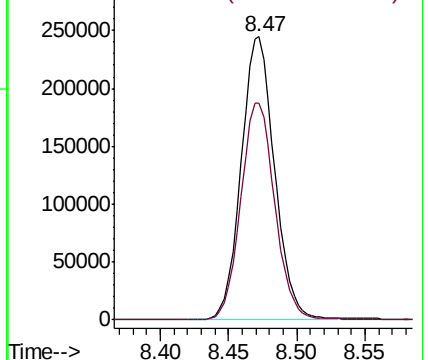


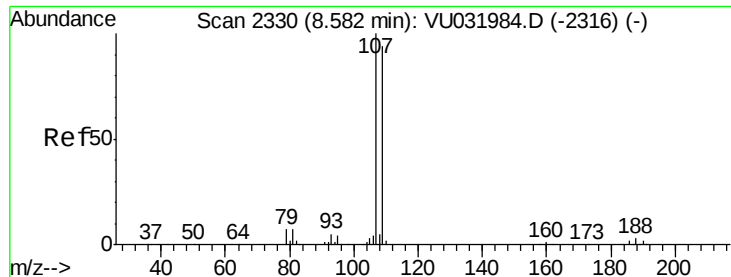
#49
Dibromochloromethane
Concen: 44.167 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

Tgt Ion: 129 Resp: 416304
Ion Ratio Lower Upper
129 100
127 76.8 53.8 99.8



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





#50

1,2-Dibromoethane

Concen: 45.337 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

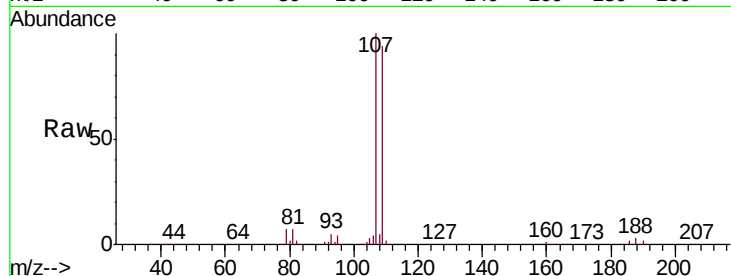
Tgt Ion:107 Resp: 438590

Ion Ratio Lower Upper

107 100

109 94.3 66.0 122.6

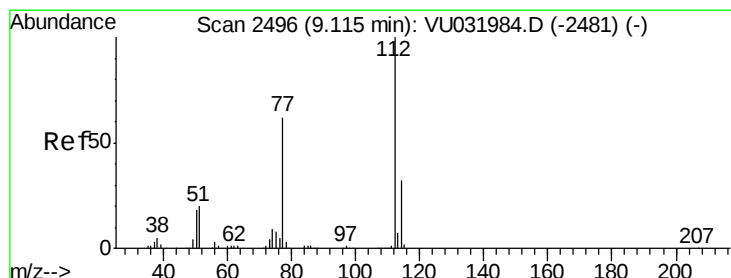
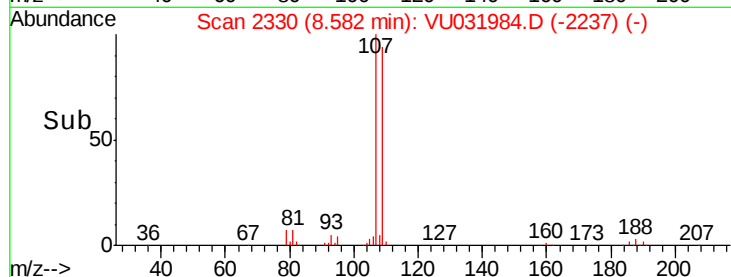
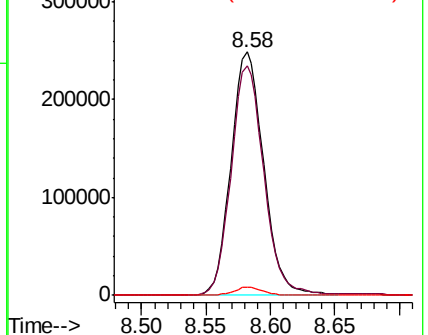
188 3.4 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 47.241 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

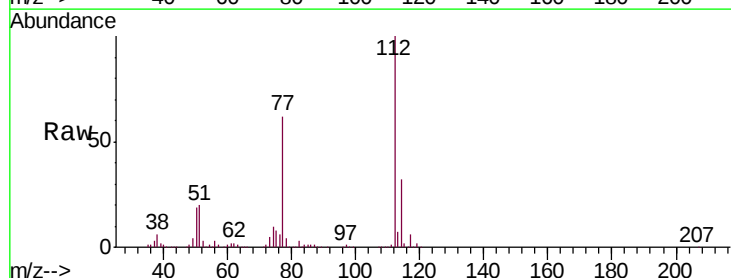
Tgt Ion:112 Resp: 1096198

Ion Ratio Lower Upper

112 100

114 31.6 22.1 41.1

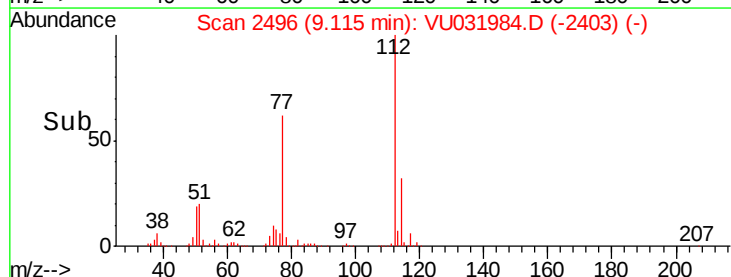
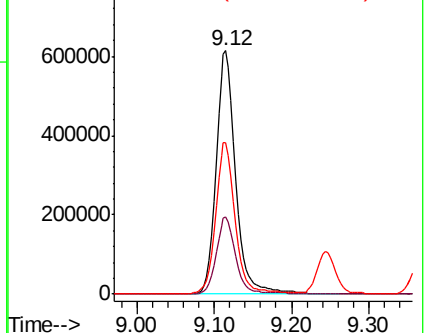
77 61.9 49.5 74.3

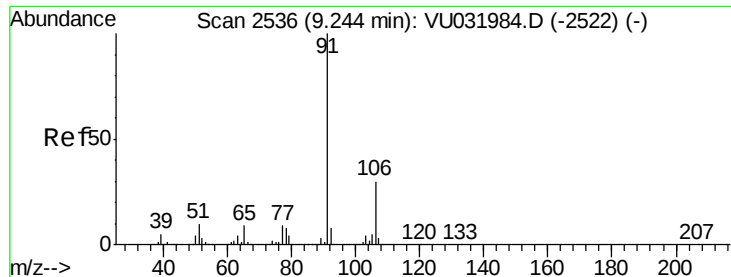


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 47.694 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

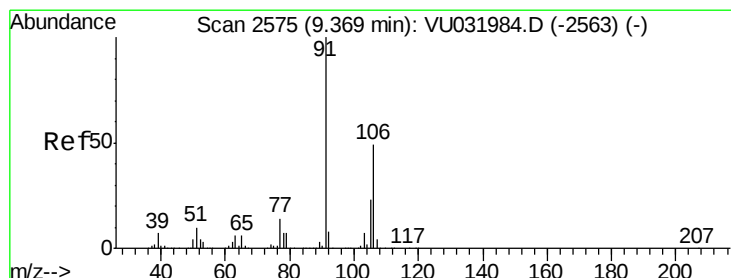
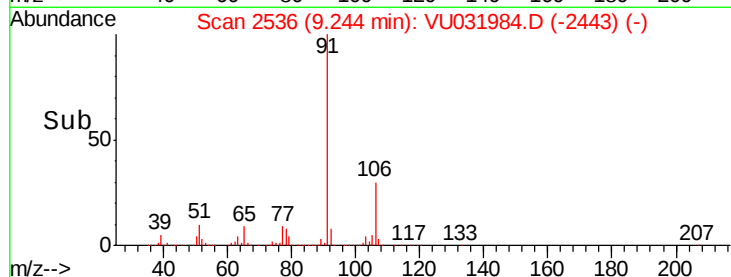
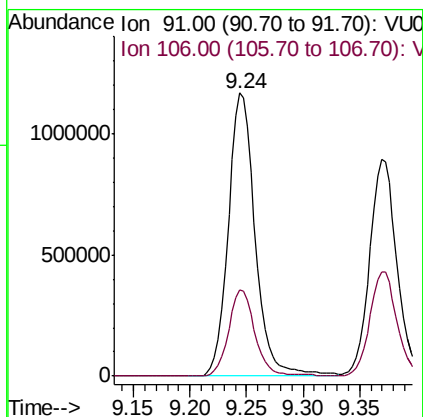
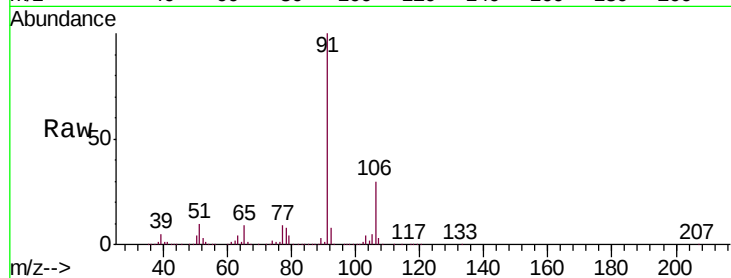
VSTD05052

Tgt Ion: 91 Resp: 1933884

Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.5



#53

m,p-Xylene

Concen: 50.833 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU031984.D

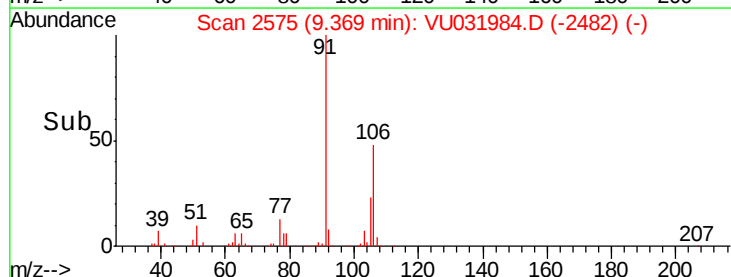
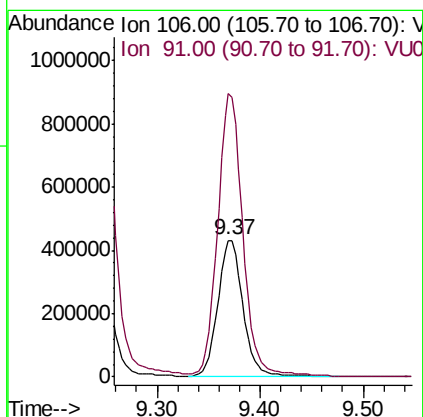
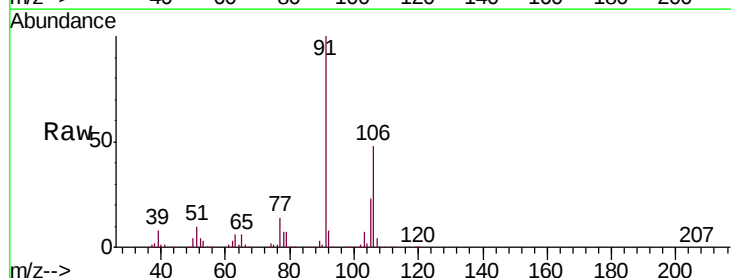
Acq: 14 May 2019 11:08

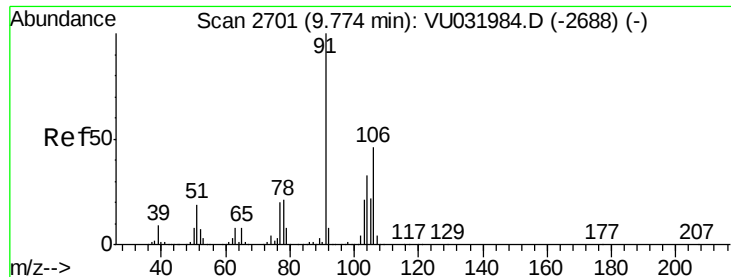
Tgt Ion: 106 Resp: 732021

Ion Ratio Lower Upper

106 100

91 206.9 144.8 269.0

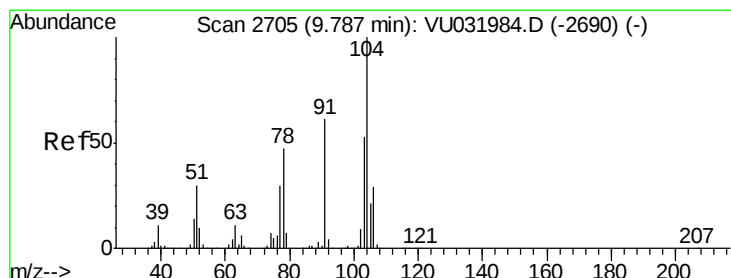
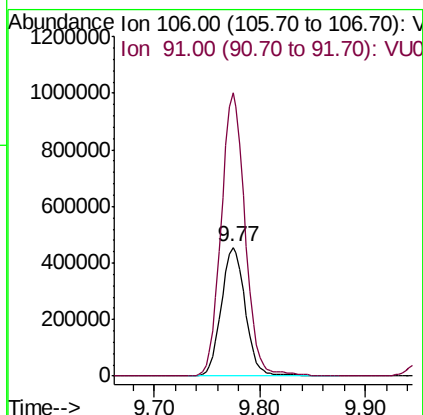
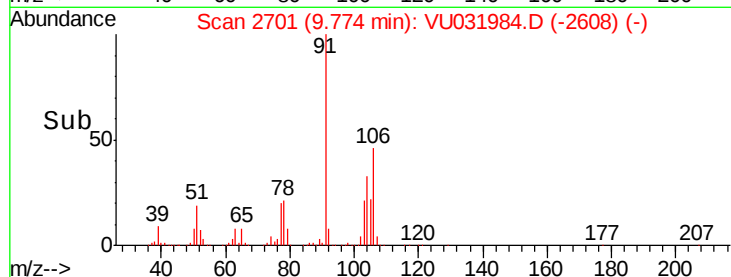
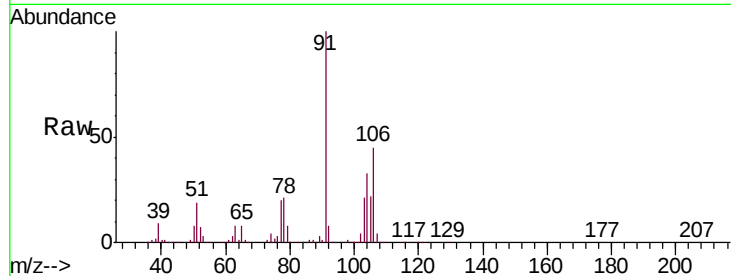




#54
o-xylene
Concen: 50.770 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

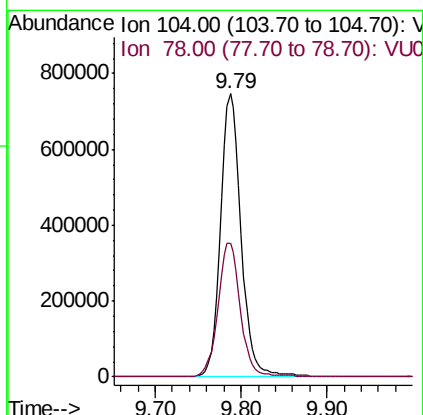
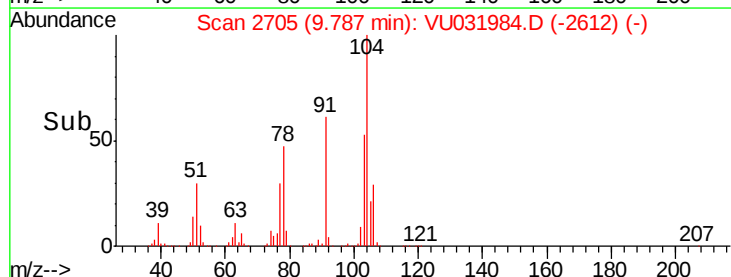
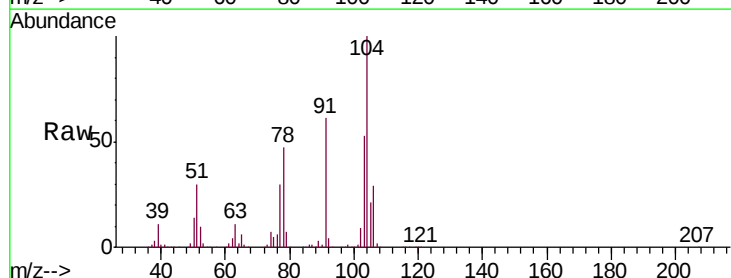
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

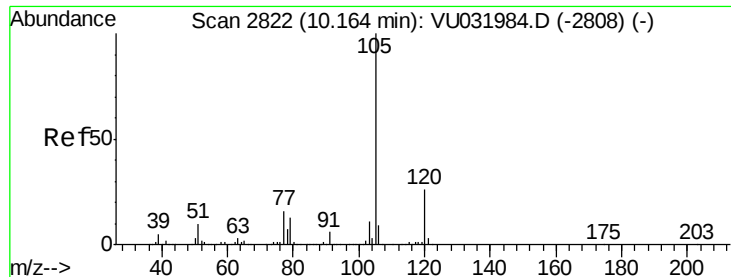
Tgt Ion:106 Resp: 718687
Ion Ratio Lower Upper
106 100
91 219.8 153.9 285.7



#55
Styrene
Concen: 51.606 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU031984.D
Acq: 14 May 2019 11:08

Tgt Ion:104 Resp: 1244373
Ion Ratio Lower Upper
104 100
78 47.4 33.2 61.6





#56

Isopropylbenzene

Concen: 49.101 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

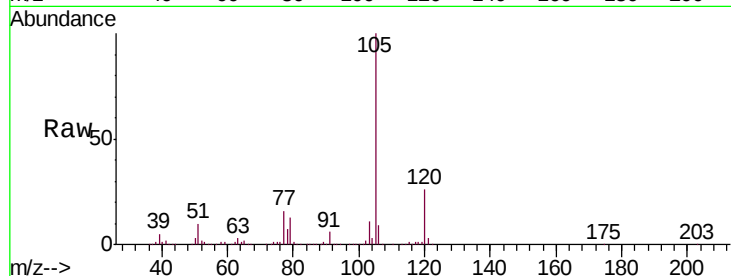
Tgt Ion: 105 Resp: 1814246

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

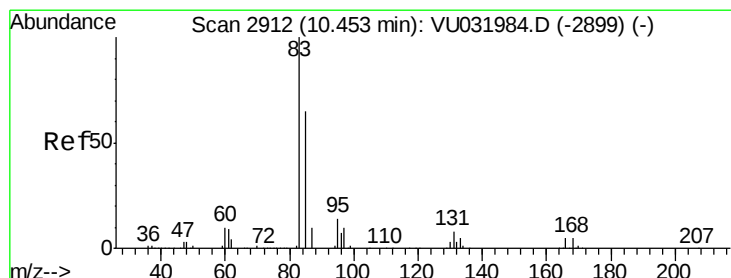
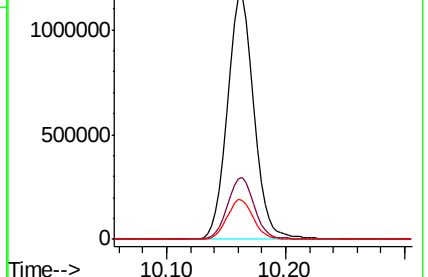
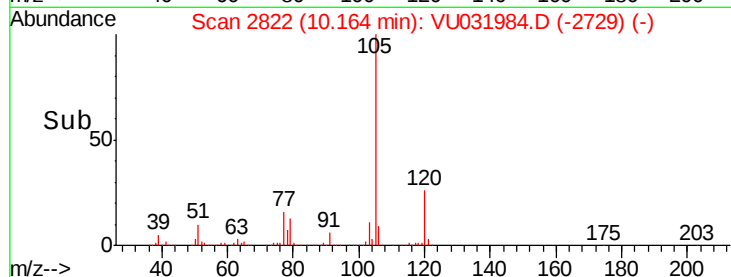
77 16.2 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 45.477 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

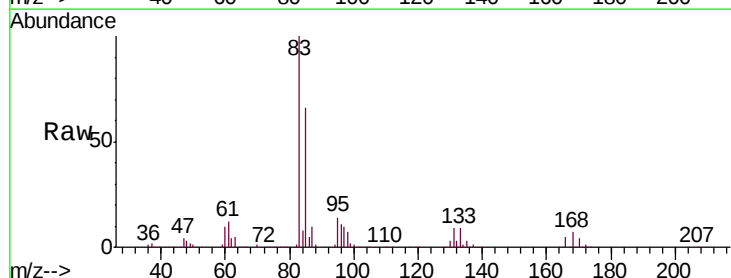
Tgt Ion: 83 Resp: 739877

Ion Ratio Lower Upper

83 100

85 65.5 45.8 85.2

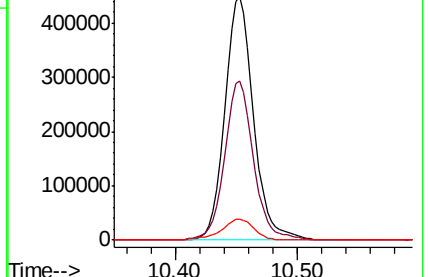
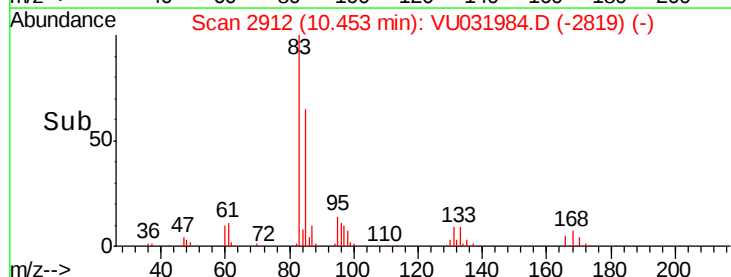
131 8.7 7.0 10.4

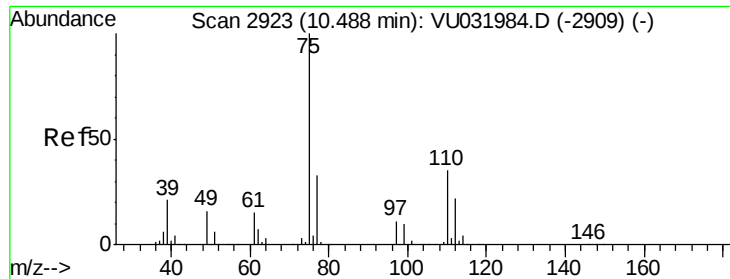


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

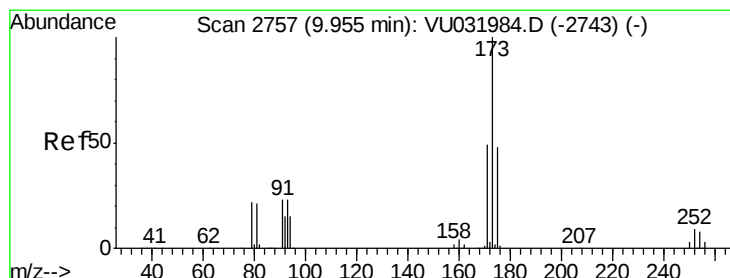
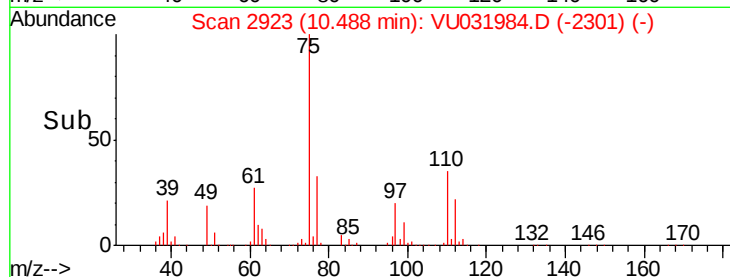
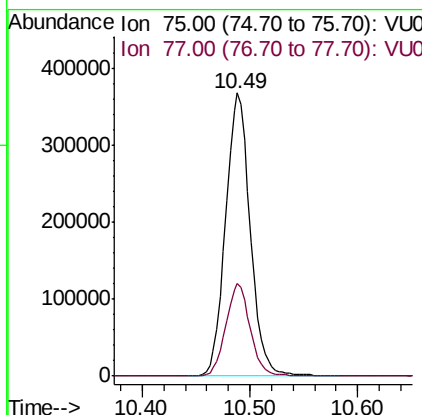
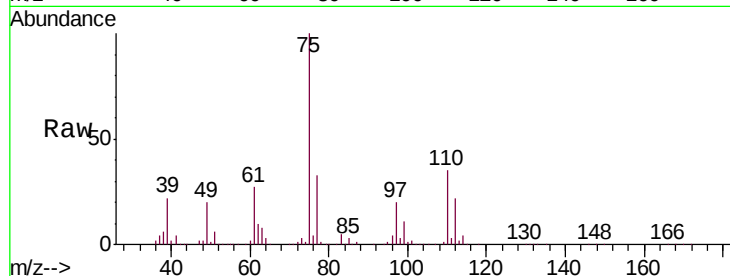




#59
 1,2,3-Trichloropropane
 Concen: 44.546 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

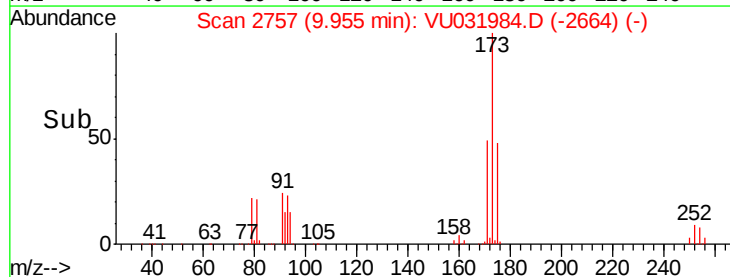
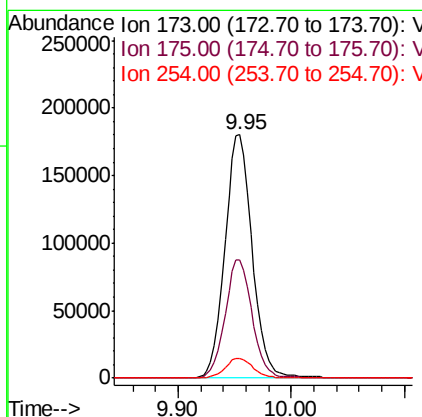
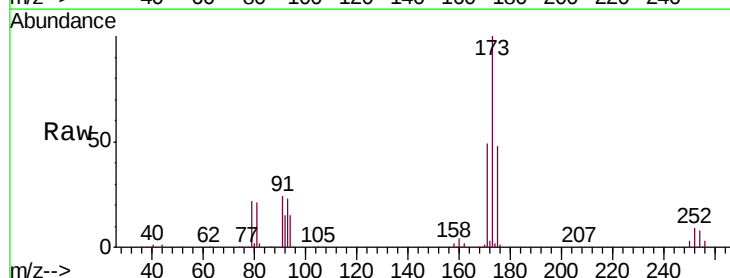
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

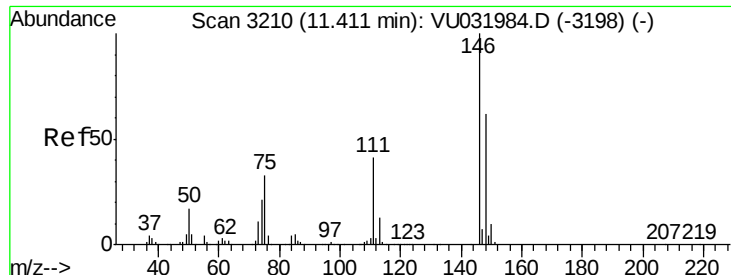
Tgt Ion: 75 Resp: 585395
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.7 38.5



#61
 Bromoform
 Concen: 43.274 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion: 173 Resp: 302720
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.4 57.6
 254 8.2 6.6 9.8

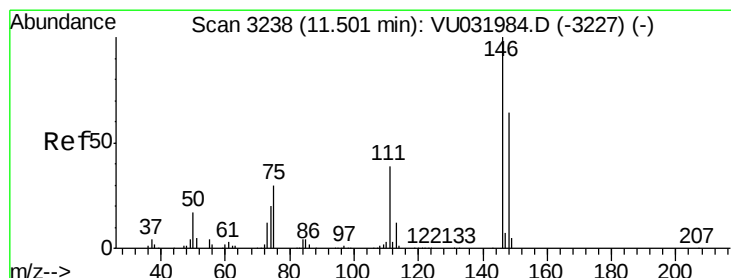
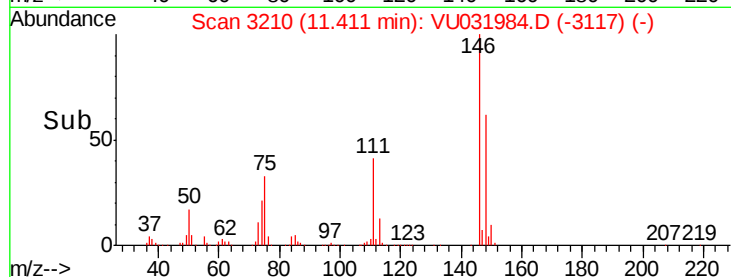
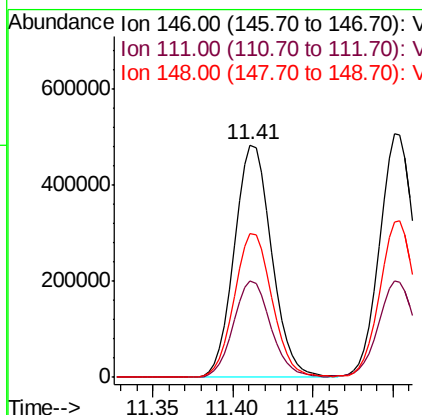
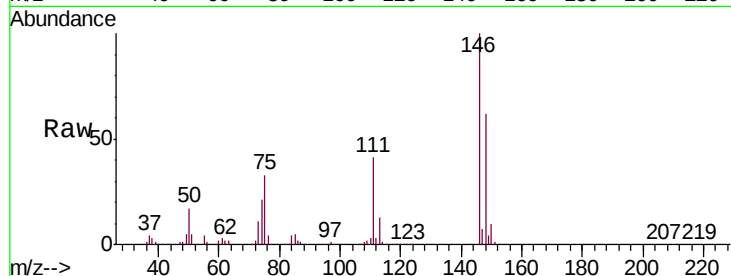




#62
 1,3-Dichlorobenzene
 Concen: 48.338 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

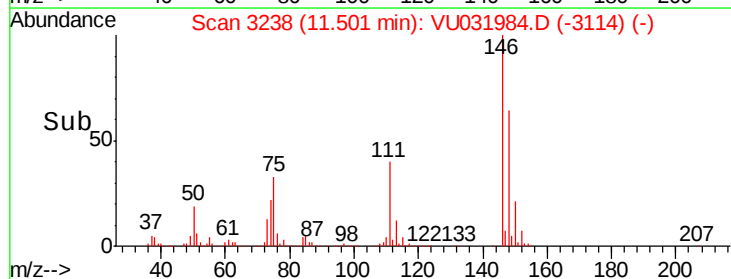
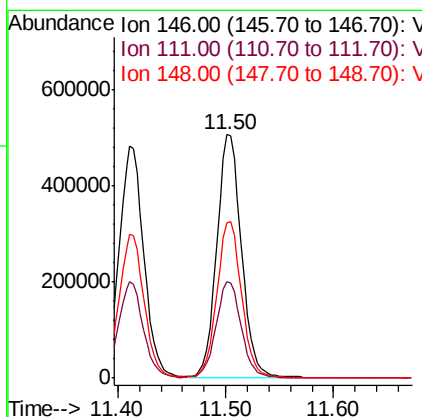
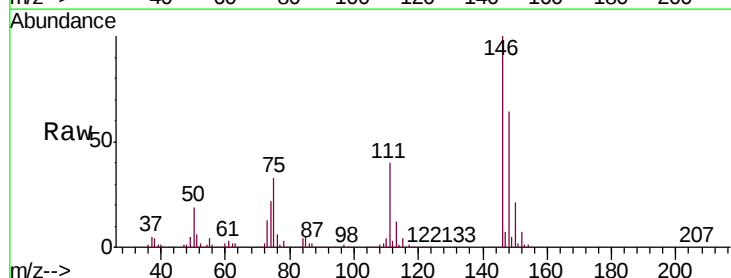
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

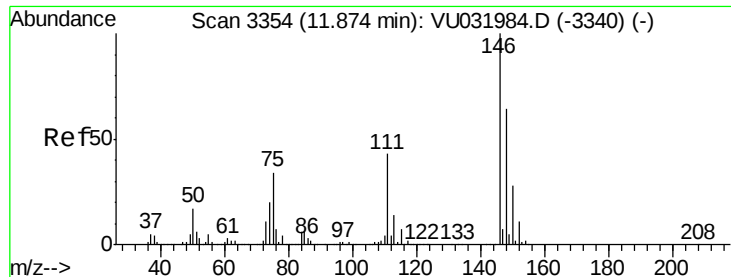
Tgt Ion:146 Resp: 769857
 Ion Ratio Lower Upper
 146 100
 111 41.5 29.0 53.9
 148 61.8 43.3 80.3



#63
 1,4-Dichlorobenzene
 Concen: 48.721 ug/L
 RT: 11.50 min Scan# 3238
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion:146 Resp: 806243
 Ion Ratio Lower Upper
 146 100
 111 39.8 27.9 51.7
 148 63.9 44.7 83.1

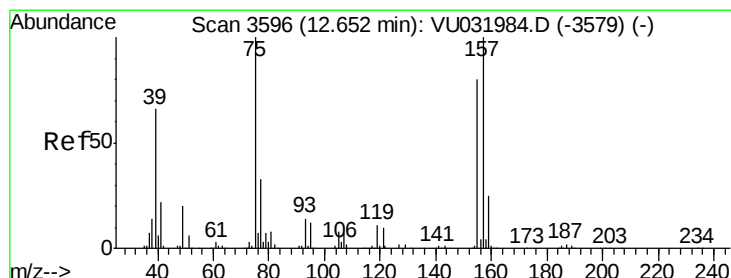
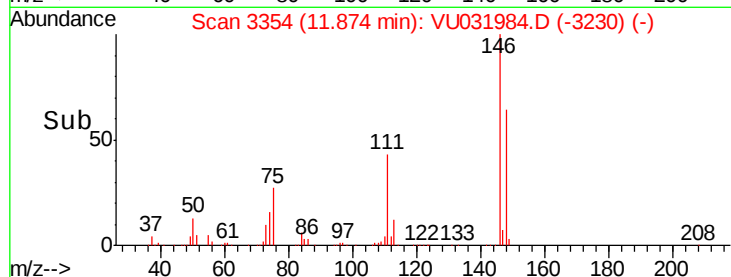
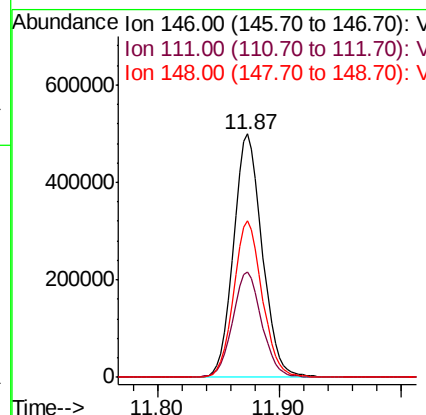
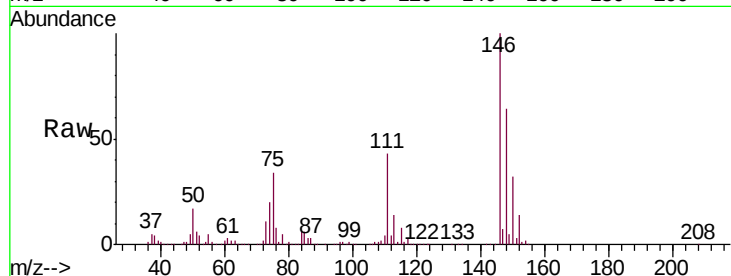




#65
 1,2-Dichlorobenzene
 Concen: 48.290 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

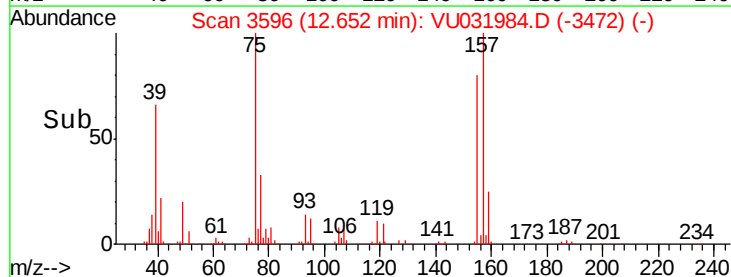
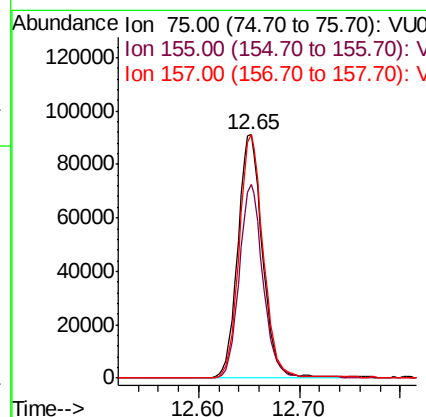
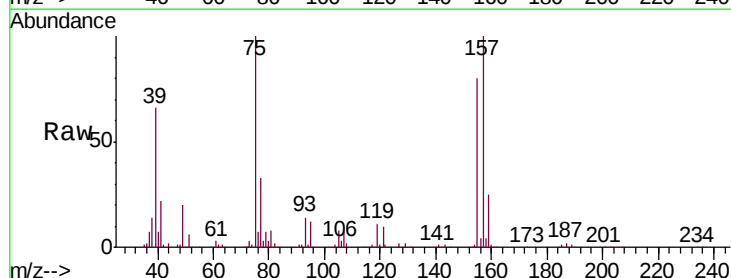
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

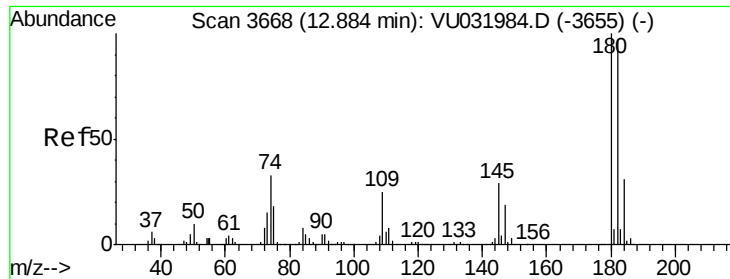
Tgt Ion: 146 Resp: 817192
 Ion Ratio Lower Upper
 146 100
 111 43.5 34.8 52.2
 148 64.2 51.4 77.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 40.929 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion: 75 Resp: 154789
 Ion Ratio Lower Upper
 75 100
 155 79.8 63.8 95.8
 157 100.2 80.2 120.2

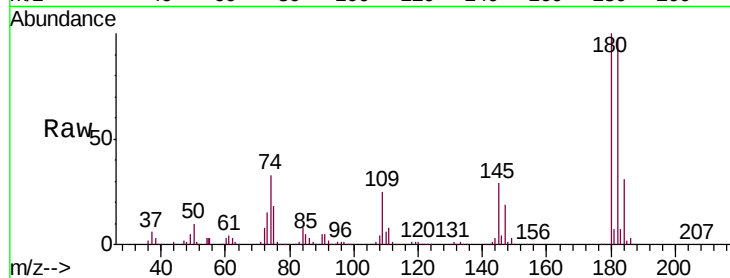




#67
 1,3,5-Trichlorobenzene
 Concen: 47.273 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	180	Resp:	562836
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
184	30.9	24.7	37.1
145	29.9	23.9	35.9



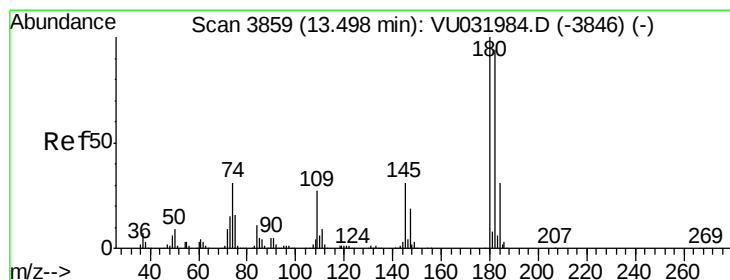
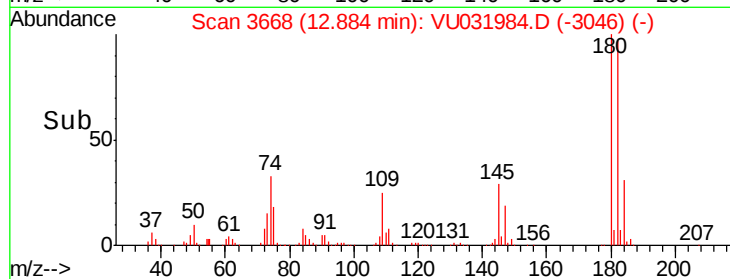
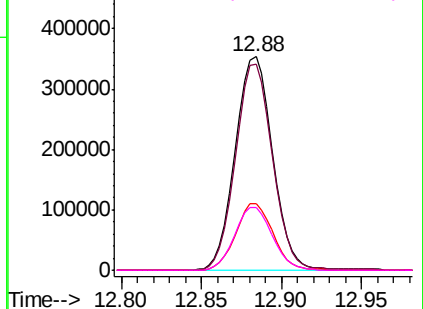
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

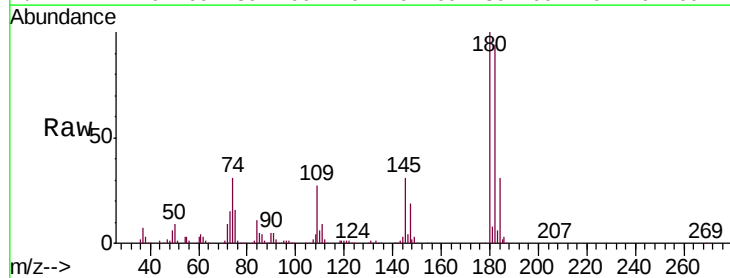
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.600 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031984.D
 Acq: 14 May 2019 11:08

Tgt Ion:	180	Resp:	456420
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.1	114.1
145	30.0	24.0	36.0

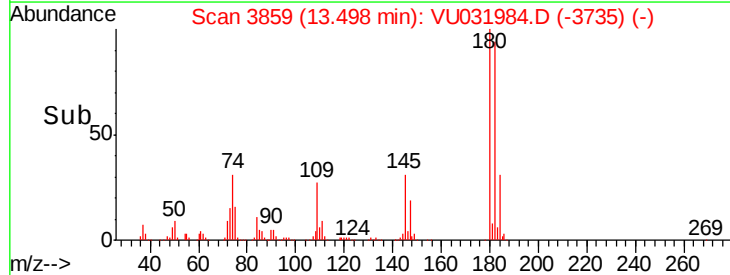
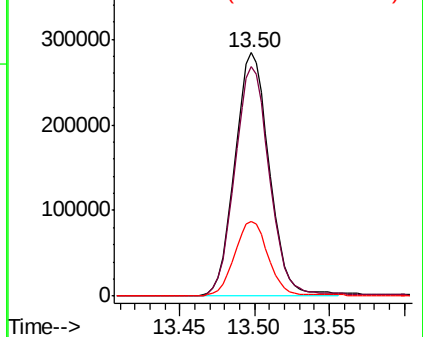


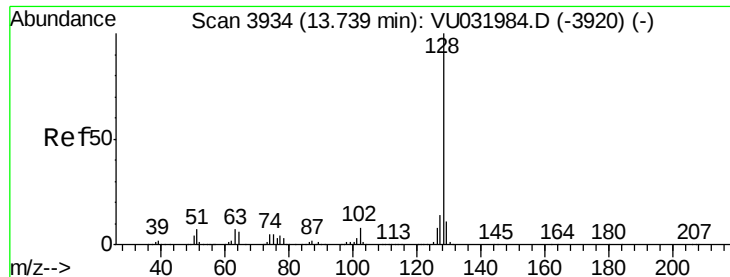
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.250 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

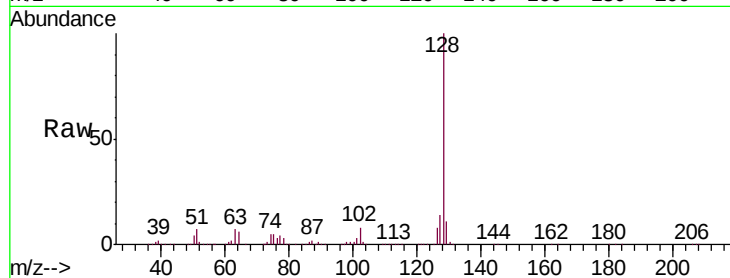
Tgt Ion:128 Resp: 1615745

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

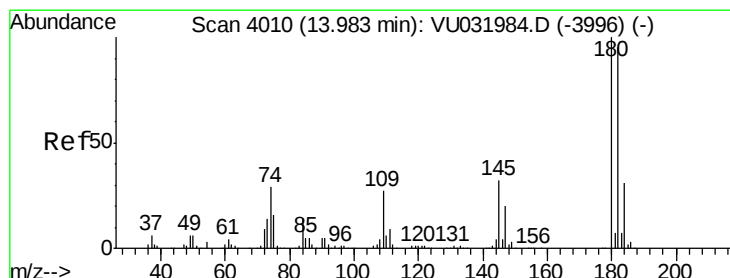
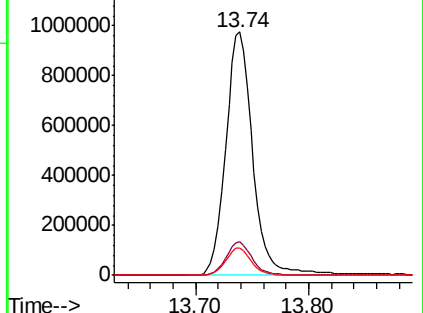
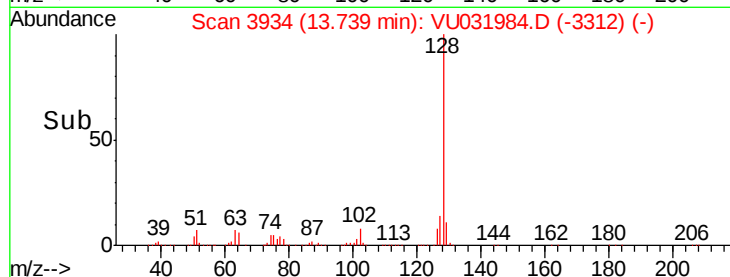
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 47.732 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031984.D

Acq: 14 May 2019 11:08

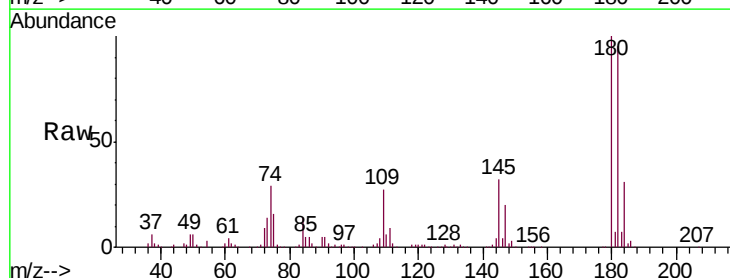
Tgt Ion:180 Resp: 509828

Ion Ratio Lower Upper

180 100

182 94.7 75.8 113.6

145 31.9 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

