

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV031620\
 Data File : VV014936.D
 Acq On : 16 Mar 2020 10:30
 Operator : SY/MD
 Sample : VSTD05065
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Quant Time: Mar 16 17:14:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 16 17:11:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	336535	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	337224	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	184567	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	115631	50.82	ug/L	0.00
7) Chloroethane-d5	1.58	69	84666	47.56	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	175781	47.25	ug/L	0.00
21) 2-Butanone-d5	3.92	46	136146	84.73	ug/L	0.00
24) Chloroform-d	4.38	84	238575	54.22	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	150643	51.31	ug/L	0.00
32) Benzene-d6	5.08	84	472316	52.78	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.10	67	139602	47.97	ug/L	0.00
41) Toluene-d8	7.34	98	471931	53.63	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	78382	53.95	ug/L	0.00
47) 2-Hexanone-d5	8.12	63	131096	100.98	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.24	84	204790	50.58	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	202274	54.19	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	157228	47.75	ug/L	100
3) Chloromethane	1.25	50	112895	40.26	ug/L	100
5) Vinyl chloride	1.32	62	112061	42.74	ug/L	100
6) Bromomethane	1.53	94	70786	43.33	ug/L	100
8) Chloroethane	1.60	64	59278	42.24	ug/L	100
9) Trichlorofluoromethane	1.76	101	178550	49.25	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	87514	47.21	ug/L	100
12) 1,1-Dichloroethene	2.13	96	80621	45.15	ug/L	100
13) Acetone	2.20	43	99547	75.12	ug/L	100
14) Carbon disulfide	2.31	76	262669	44.53	ug/L	100
15) Methyl Acetate	2.45	43	90383	36.42	ug/L	100
16) Methylene chloride	2.52	84	123064	49.54	ug/L	100
17) trans-1,2-Dichloroethene	2.78	96	114738	50.74	ug/L	100
18) Methyl tert-butyl Ether	2.79	73	366172	49.67	ug/L	100
19) 1,1-Dichloroethane	3.21	63	204860	47.18	ug/L	100
20) cis-1,2-Dichloroethene	3.94	96	130586	51.43	ug/L	100
22) 2-Butanone	4.01	43	141178	78.22	ug/L	90
23) Bromochloromethane	4.27	128	68653	52.56	ug/L	100
25) Chloroform	4.40	83	226249	49.91	ug/L	100
27) 1,2-Dichloroethane	5.16	62	172829	49.01	ug/L	100
29) Cyclohexane	4.70	56	177137	44.51	ug/L	100
30) 1,1,1-Trichloroethane	4.64	97	203773	51.57	ug/L	100
31) Carbon tetrachloride	4.85	117	184086	54.30	ug/L	100
33) Benzene	5.13	78	472044	48.74	ug/L	100
34) Trichloroethene	5.94	95	123439	48.61	ug/L	100
35) Methylcyclohexane	6.15	83	202895	48.50	ug/L	100
37) 1,2-Dichloropropane	6.20	63	113239	44.27	ug/L	100
38) Bromodichloromethane	6.53	83	166949	49.81	ug/L	100
39) cis-1,3-Dichloropropene	7.05	75	200218	48.66	ug/L	100
40) 4-Methyl-2-pentanone	7.25	43	322157	87.19	ug/L	100

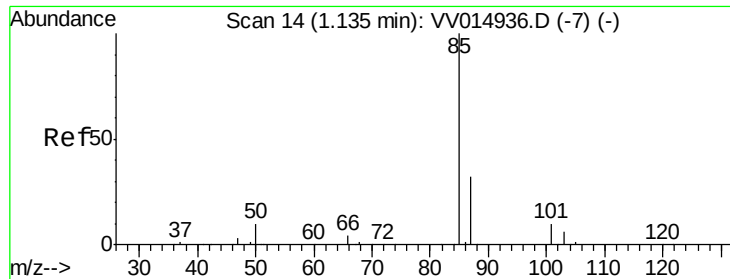
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV031620\
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 Quant Title : VOC Analysis
 QLast Update : Mon Mar 16 17:11:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	532029	49.58	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	174961	47.24	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	121616	49.89	ug/L	100
46) Tetrachloroethene	8.00	164	116635	54.45	ug/L	100
48) 2-Hexanone	8.17	43	262110	90.30	ug/L	100
49) Dibromochloromethane	8.27	129	137374	51.55	ug/L	100
50) 1,2-Dibromoethane	8.37	107	132935	50.49	ug/L	100
51) Chlorobenzene	8.90	112	360197	51.57	ug/L	100
52) Ethylbenzene	9.03	91	610044	50.35	ug/L	100
53) m,p-Xylene	9.16	106	235494	51.45	ug/L	100
54) o-xylene	9.56	106	232977	51.83	ug/L	100
55) Styrene	9.58	104	403447	52.52	ug/L	100
56) Isopropylbenzene	9.95	105	622810	51.65	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	201712	48.48	ug/L	100
59) 1,2,3-Trichloropropane	10.30	75	160389	48.07	ug/L	100
61) Bromoform	9.75	173	102188	50.72	ug/L	100
62) 1,3-Dichlorobenzene	11.20	146	307374	51.20	ug/L	100
63) 1,4-Dichlorobenzene	11.29	146	304642	50.63	ug/L	100
65) 1,2-Dichlorobenzene	11.66	146	307637	51.26	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.45	75	46231	46.56	ug/L	100
67) 1,3,5-Trichlorobenzene	12.67	180	244188	52.14	ug/L	100
68) 1,2,4-trichlorobenzene	13.28	180	215378	50.54	ug/L	100
69) Naphthalene	13.52	128	292076	46.60	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	222487	52.13	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 47.75 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

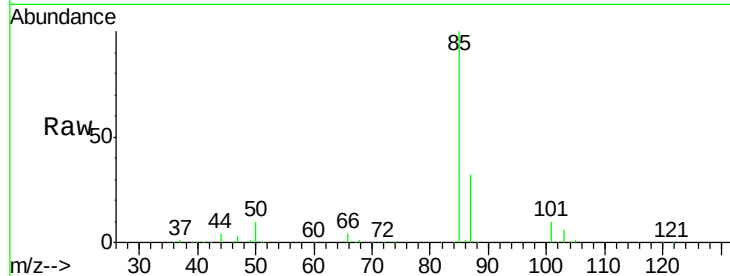
VSTD05065

Tgt Ion: 85 Resp: 157228

Ion Ratio Lower Upper

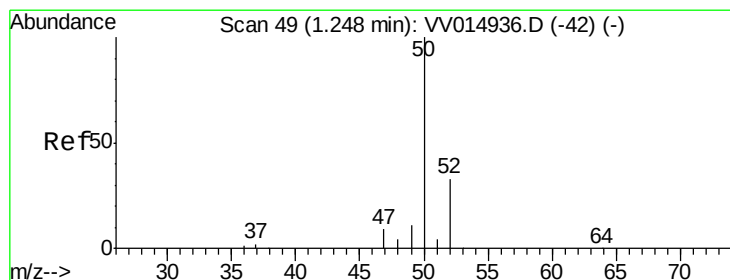
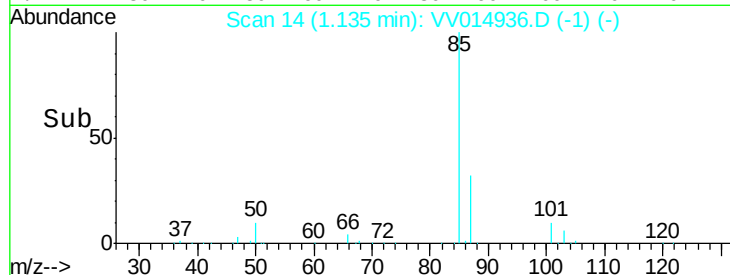
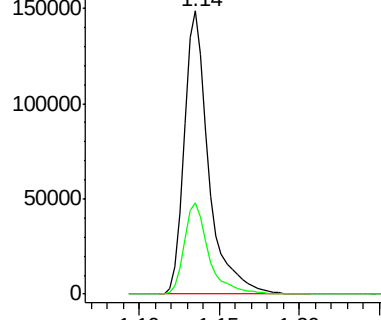
85 100

87 32.6 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 40.26 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV014936.D

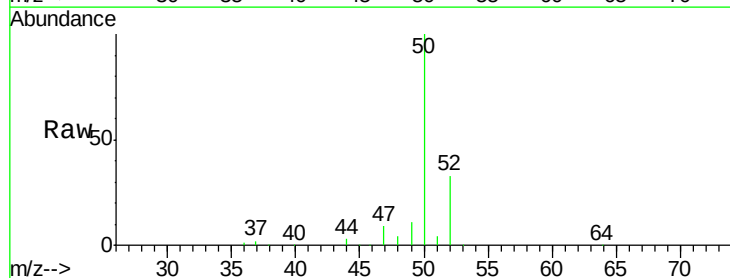
Acq: 16 Mar 2020 10:30

Tgt Ion: 50 Resp: 112895

Ion Ratio Lower Upper

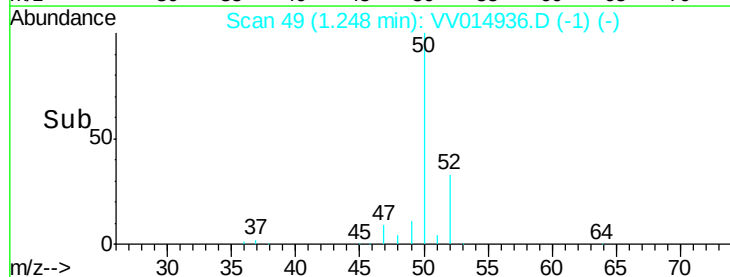
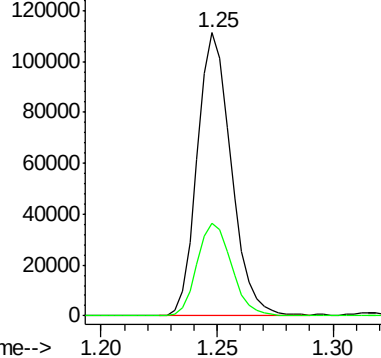
50 100

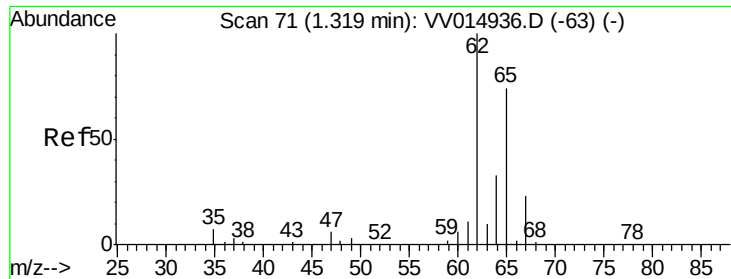
52 32.9 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 42.74 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampled :

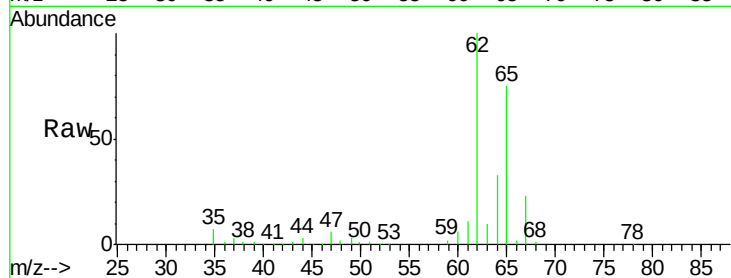
VSTD05065

Tgt Ion: 62 Resp: 112061

Ion Ratio Lower Upper

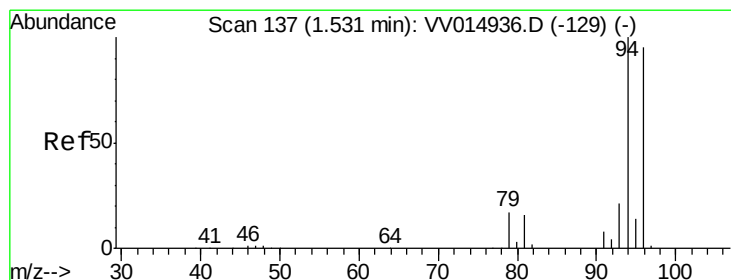
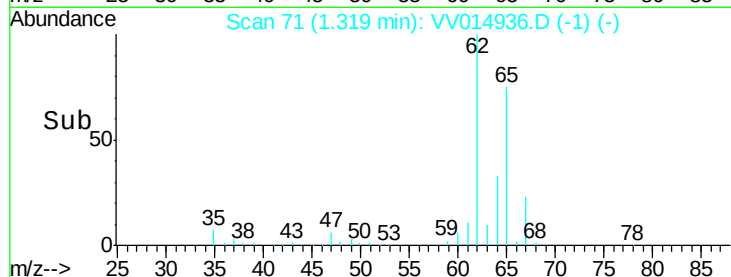
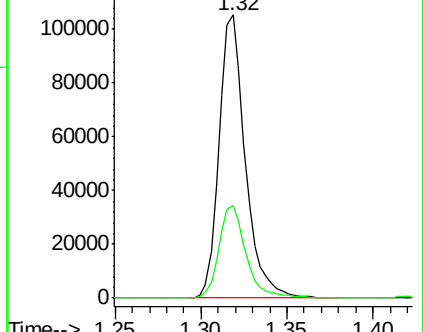
62 100

64 32.9 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 43.33 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV014936.D

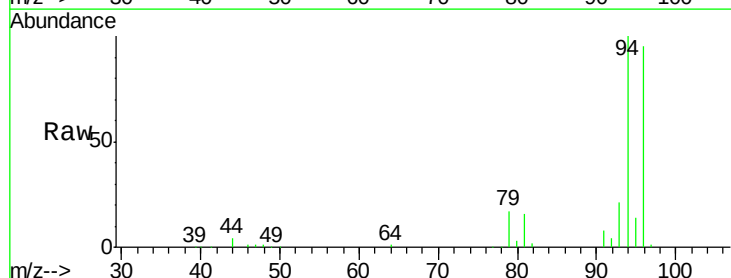
Acq: 16 Mar 2020 10:30

Tgt Ion: 94 Resp: 70786

Ion Ratio Lower Upper

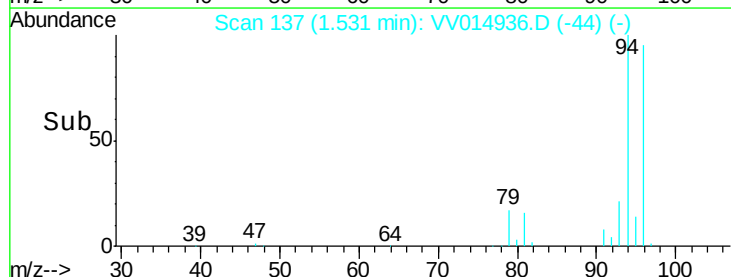
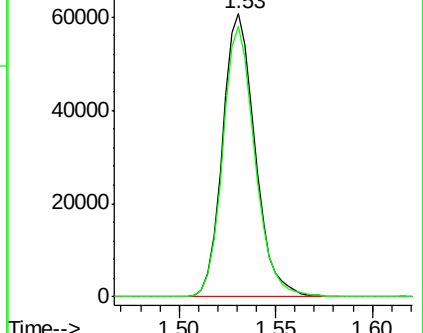
94 100

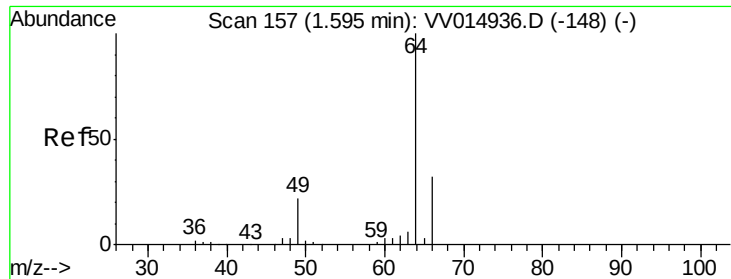
96 95.4 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

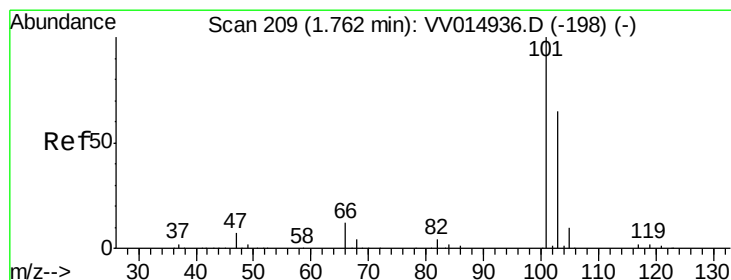
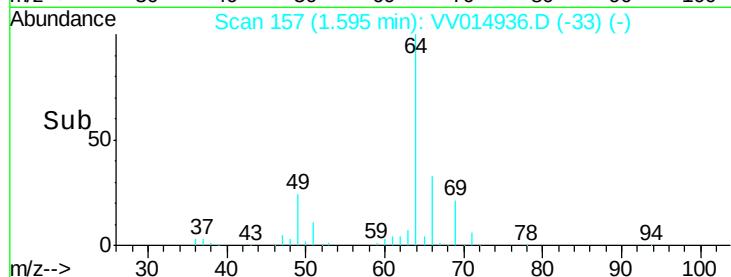
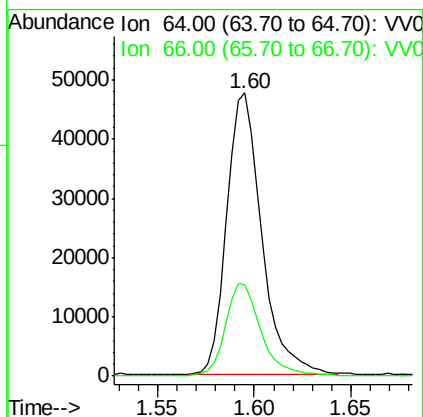
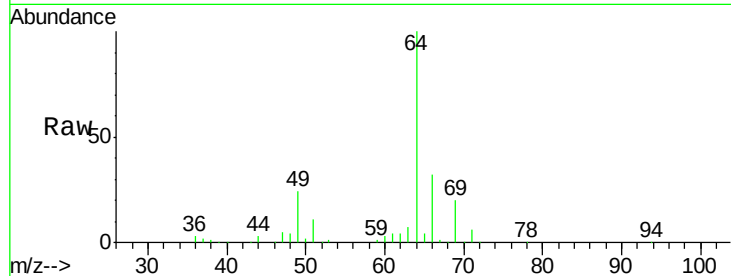




#8
Chloroethane
Concen: 42.24 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

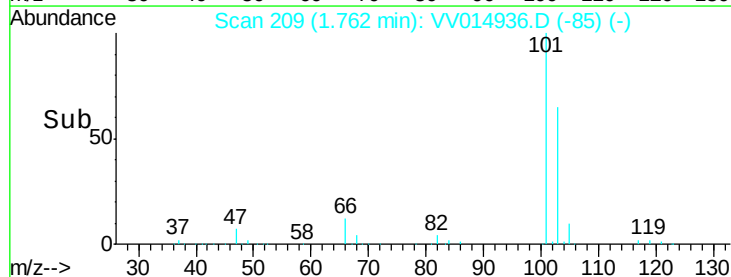
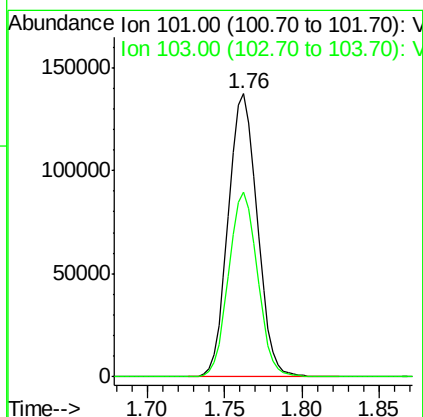
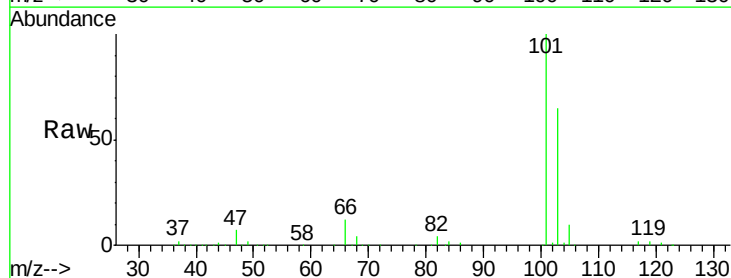
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

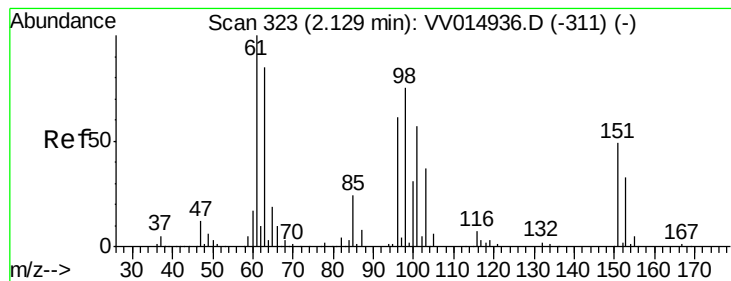
Tgt Ion: 64 Resp: 59278
Ion Ratio Lower Upper
64 100
66 32.4 22.7 42.1



#9
Trichlorofluoromethane
Concen: 49.25 ug/L
RT: 1.76 min Scan# 209
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

Tgt Ion: 101 Resp: 178550
Ion Ratio Lower Upper
101 100
103 64.9 51.9 77.9





#10

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

Concen: 47.21 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

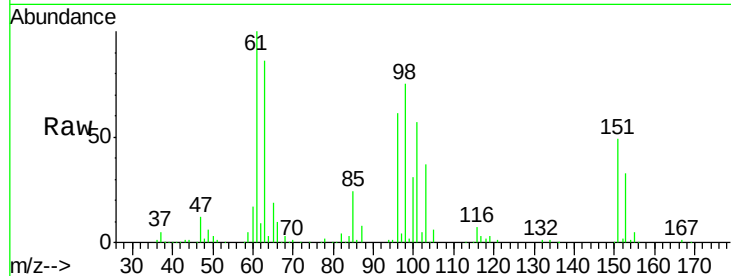
Tgt Ion:101 Resp: 87514

Ion Ratio Lower Upper

101 100

85 42.4 33.9 50.9

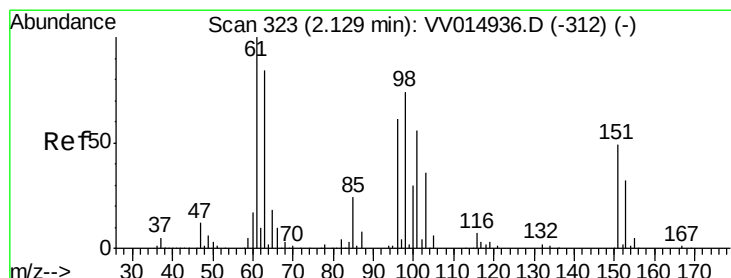
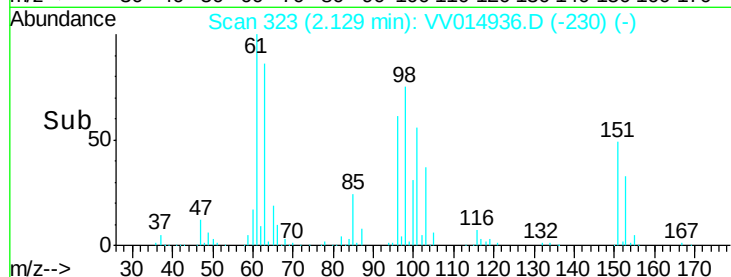
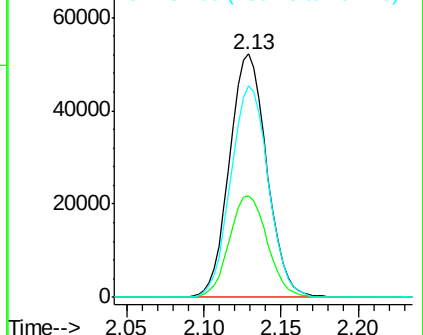
151 87.6 70.1 105.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.15 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

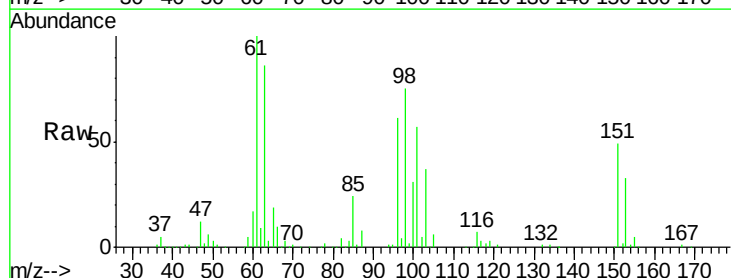
Tgt Ion: 96 Resp: 80621

Ion Ratio Lower Upper

96 100

61 165.3 115.7 214.9

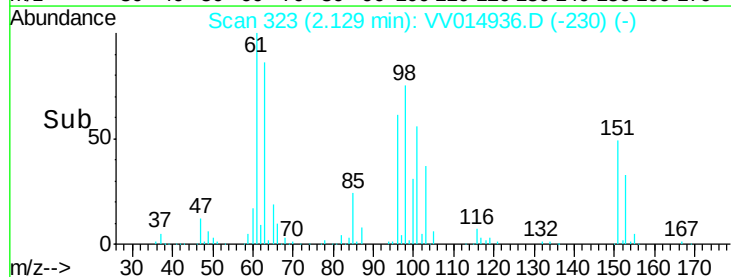
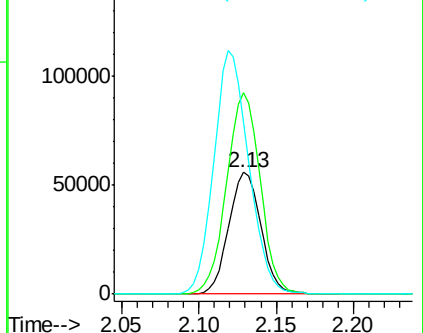
63 141.7 99.2 184.2

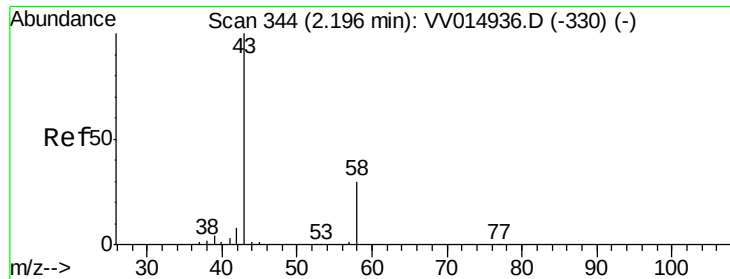


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 75.12 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

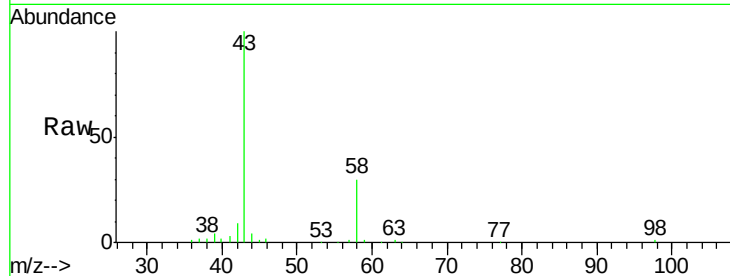
VSTD05065

Tgt Ion: 43 Resp: 99547

Ion Ratio Lower Upper

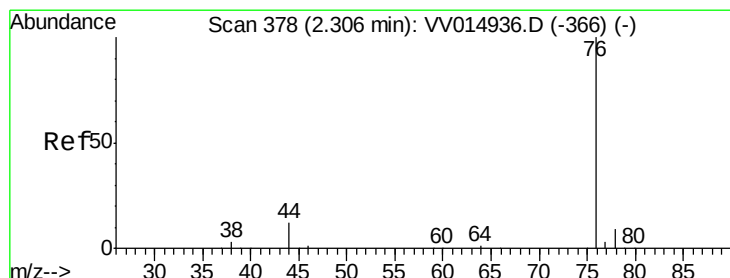
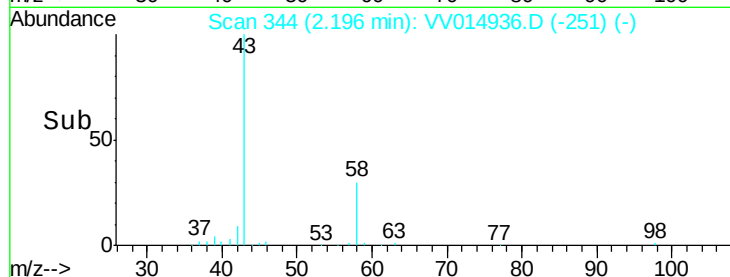
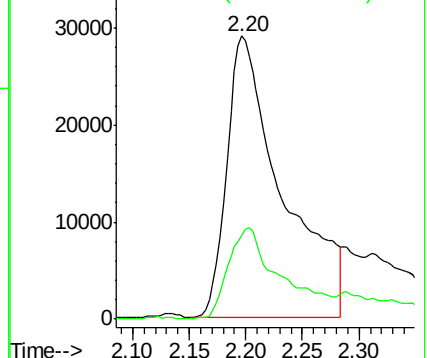
43 100

58 25.8 0.0 51.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 44.53 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV014936.D

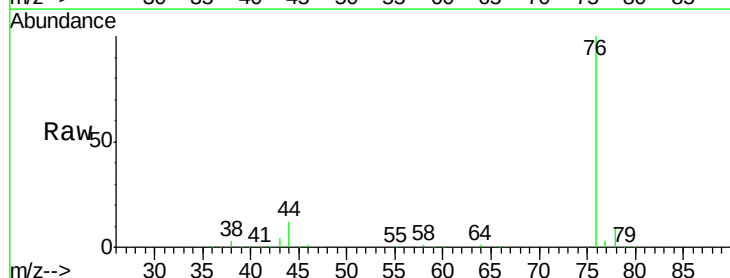
Acq: 16 Mar 2020 10:30

Tgt Ion: 76 Resp: 262669

Ion Ratio Lower Upper

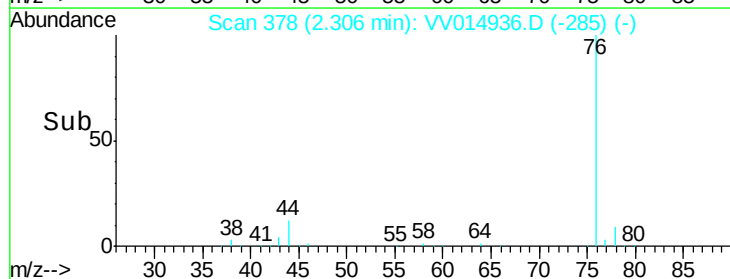
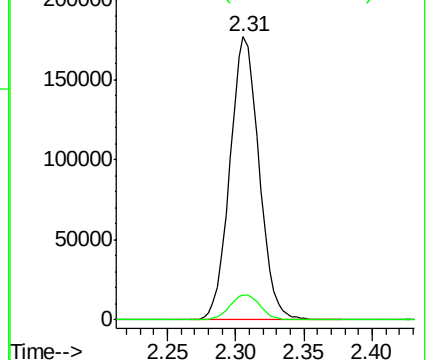
76 100

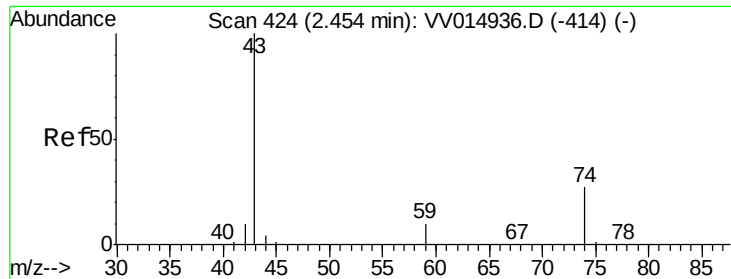
78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

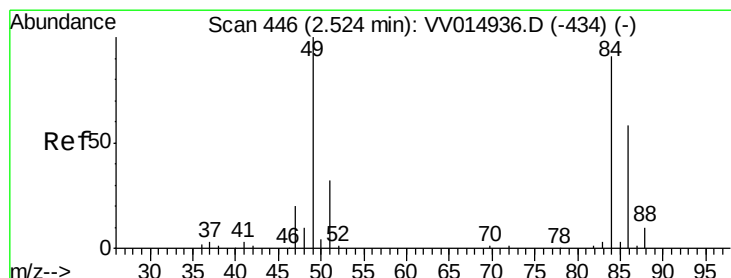
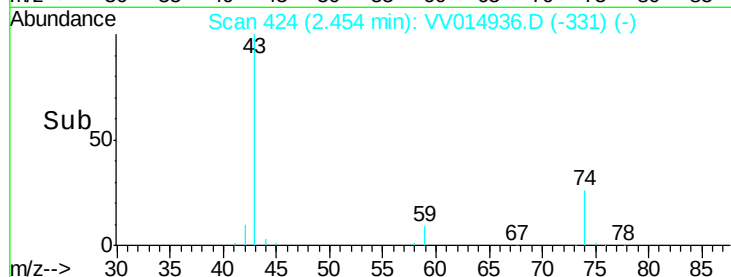
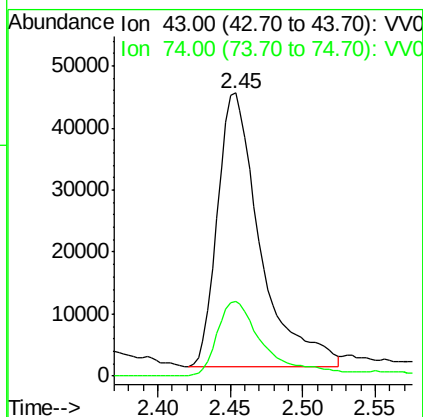
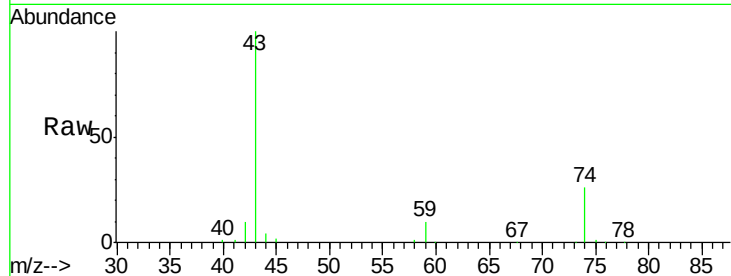




#15
Methyl Acetate
Concen: 36.42 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

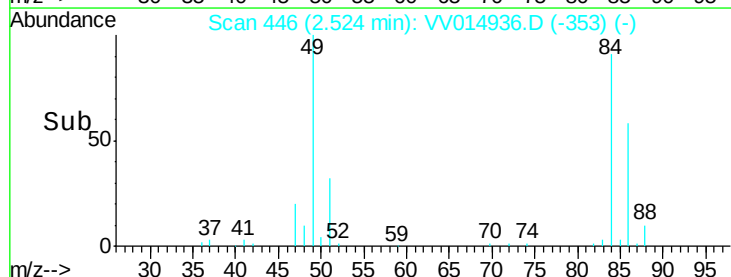
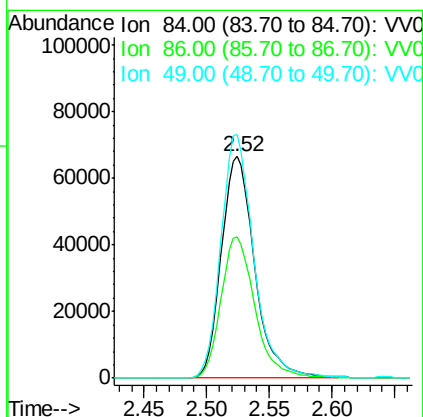
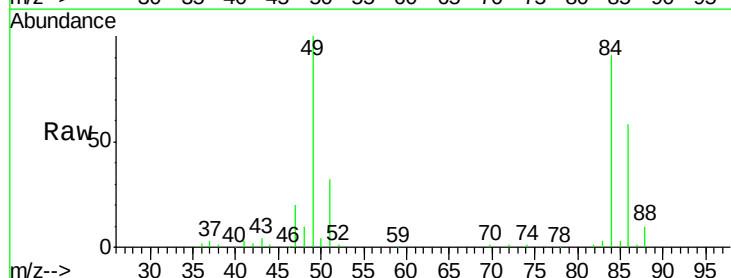
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

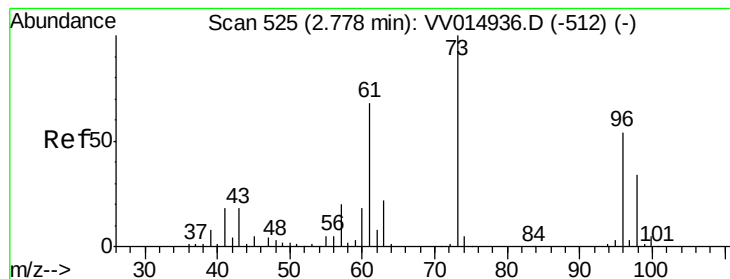
Tgt Ion: 43 Resp: 90383
Ion Ratio Lower Upper
43 100
74 28.0 22.4 33.6



#16
Methylene chloride
Concen: 49.54 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

Tgt Ion: 84 Resp: 123064
Ion Ratio Lower Upper
84 100
86 63.7 44.6 82.8
49 109.9 76.9 142.9





#17

trans-1,2-Dichloroethene

Concen: 50.74 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampled :

VSTD05065

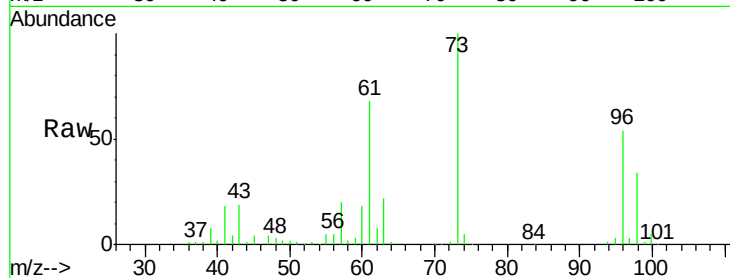
Tgt Ion: 96 Resp: 114738

Ion Ratio Lower Upper

96 100

61 125.6 87.9 163.3

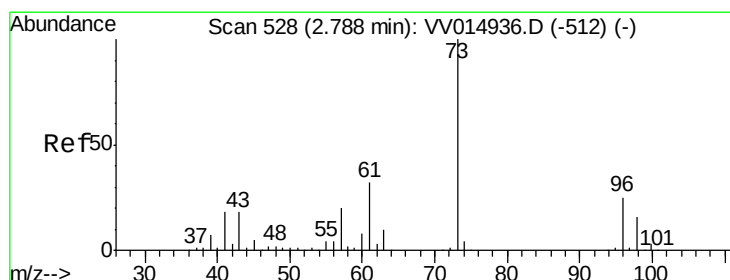
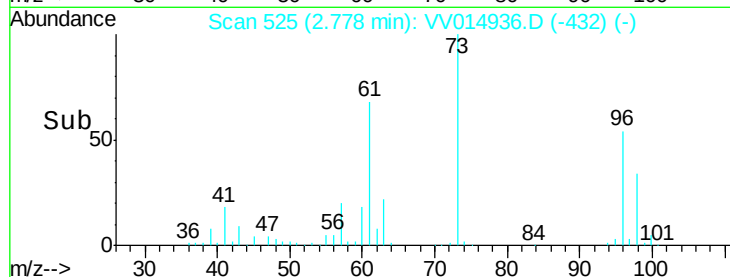
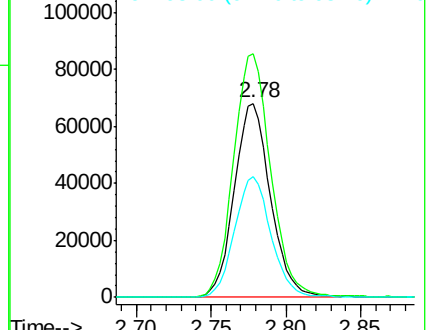
98 62.1 43.5 80.7



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 49.67 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

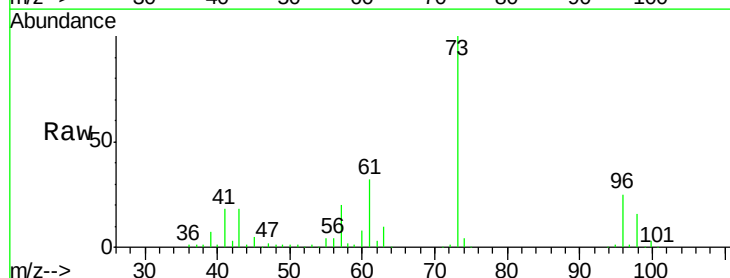
Tgt Ion: 73 Resp: 366172

Ion Ratio Lower Upper

73 100

43 18.0 14.4 21.6

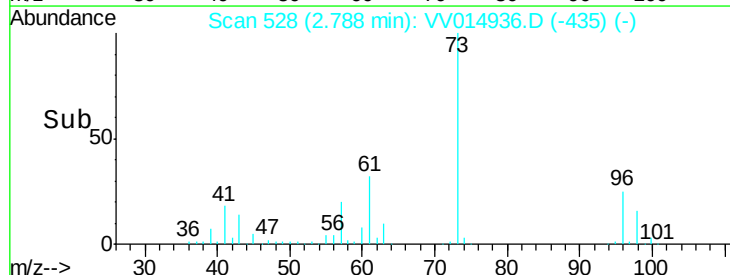
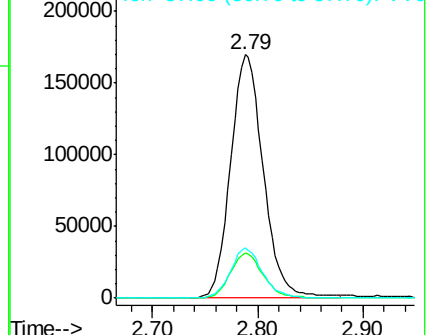
57 20.0 16.0 24.0

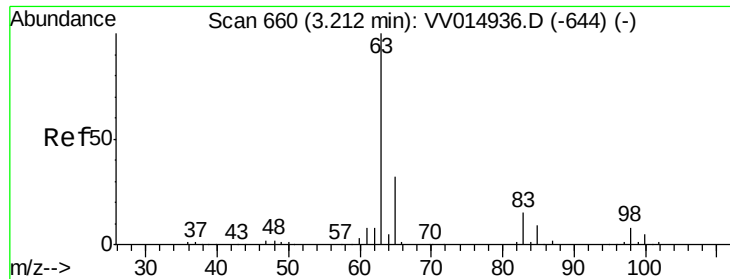


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 47.18 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

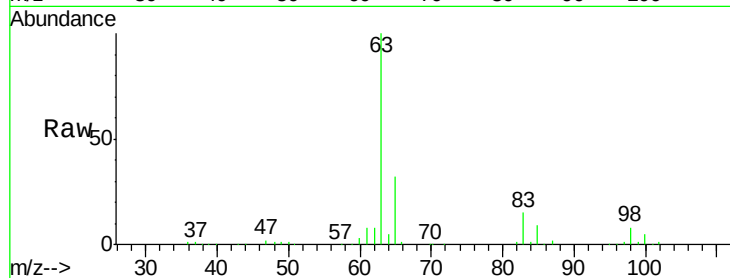
Tgt Ion: 63 Resp: 204860

Ion Ratio Lower Upper

63 100

65 32.5 22.7 42.3

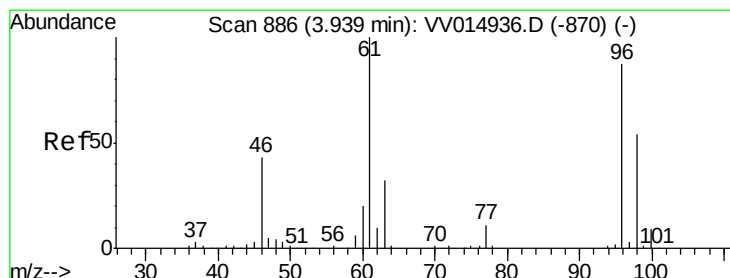
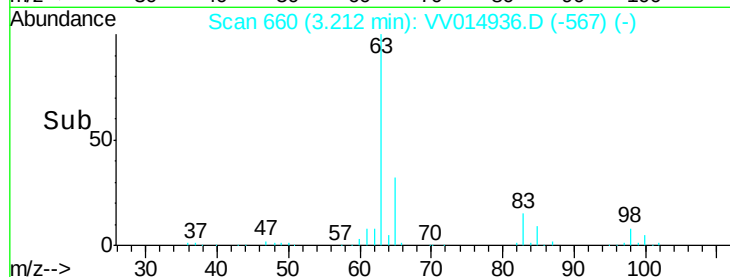
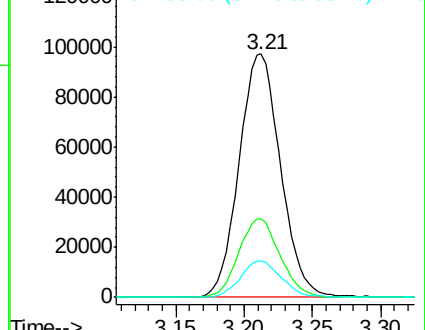
83 14.8 10.4 19.2



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 51.43 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

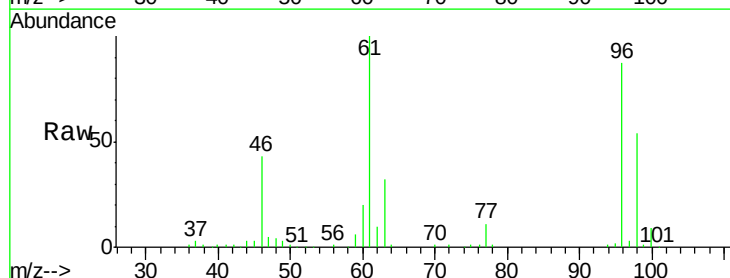
Tgt Ion: 96 Resp: 130586

Ion Ratio Lower Upper

96 100

61 114.6 80.2 149.0

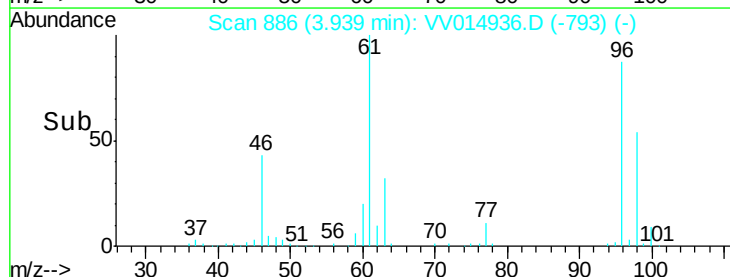
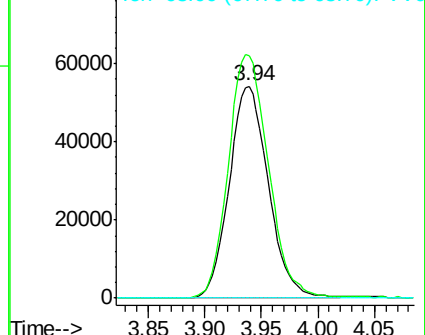
68 0.0 0.0 0.0

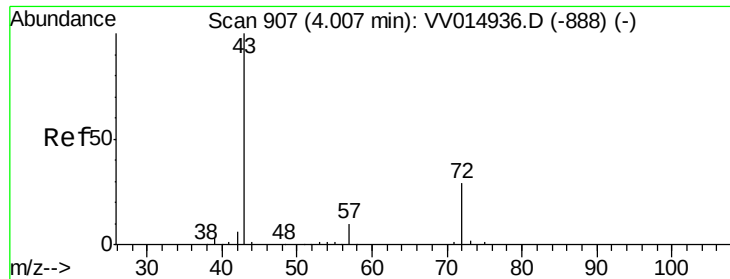


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 78.22 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

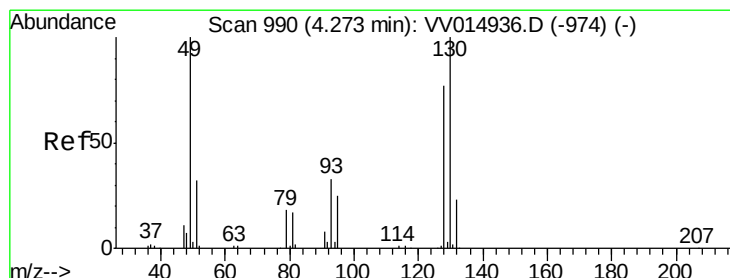
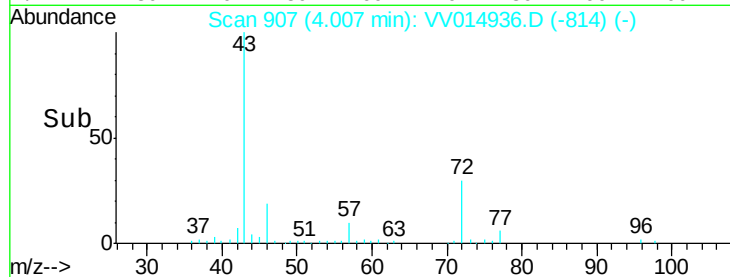
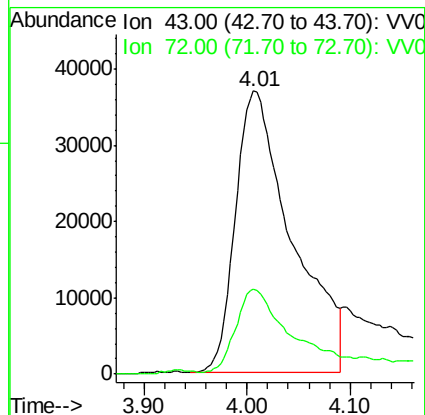
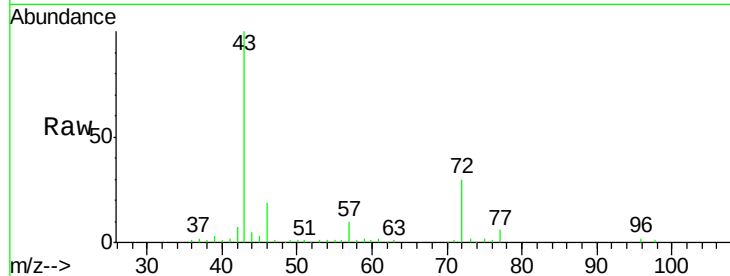
VSTD05065

Tgt Ion: 43 Resp: 141178

Ion Ratio Lower Upper

43 100

72 26.6 10.9 32.6



#23

Bromochloromethane

Concen: 52.56 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Tgt Ion: 128 Resp: 68653

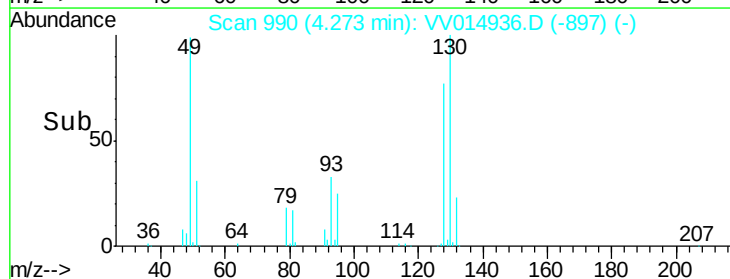
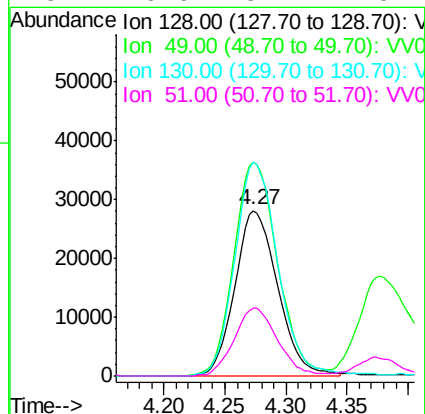
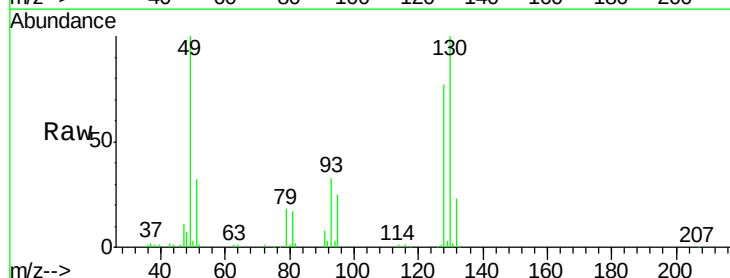
Ion Ratio Lower Upper

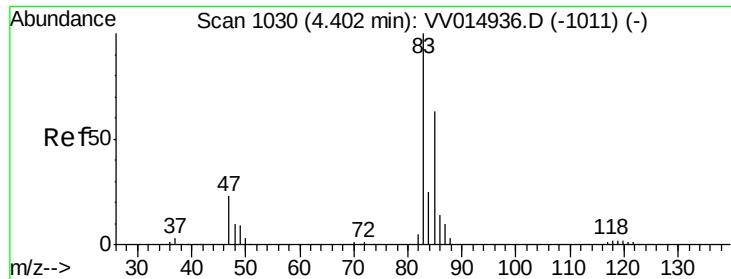
128 100

49 129.1 90.4 167.8

130 129.2 90.4 168.0

51 40.9 32.7 49.1

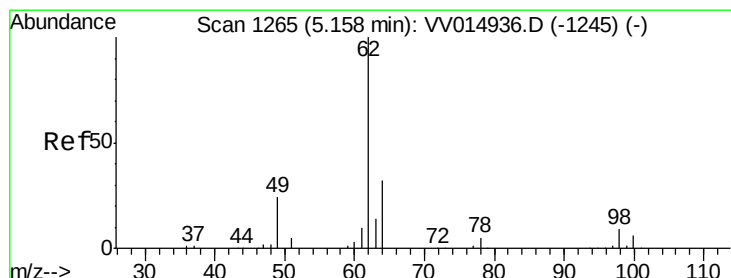
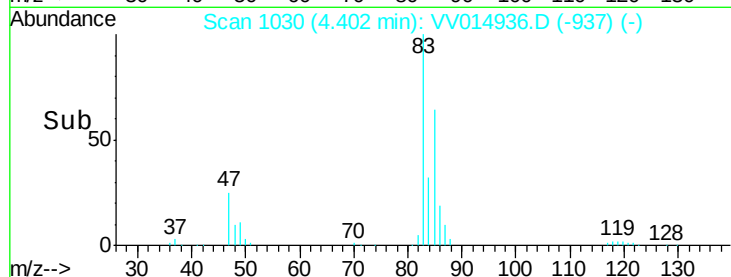
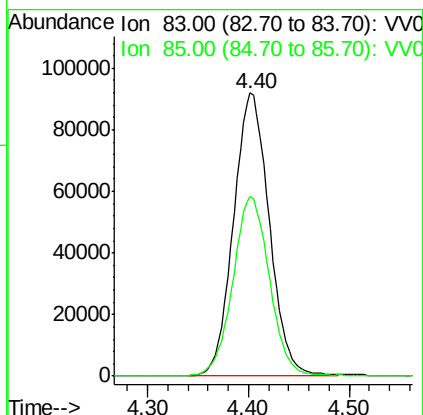
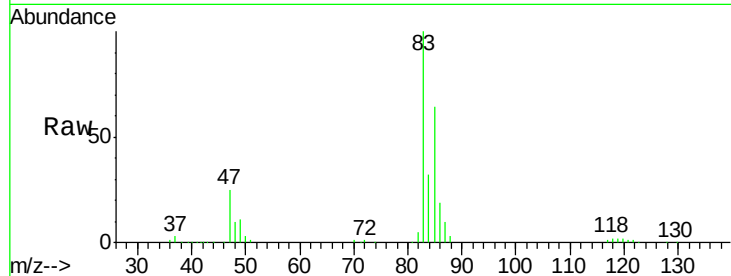




#25
Chloroform
Concen: 49.91 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

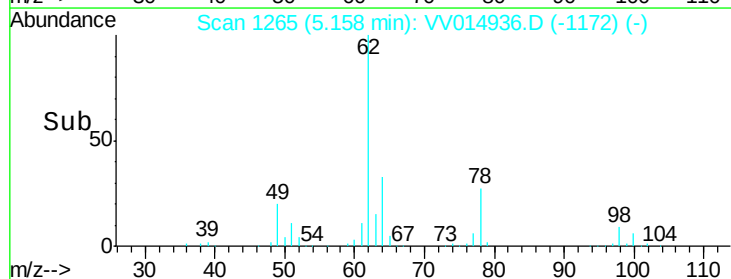
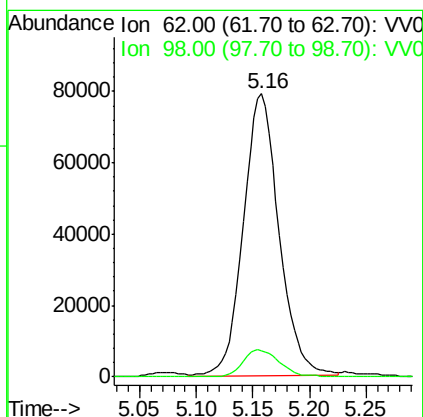
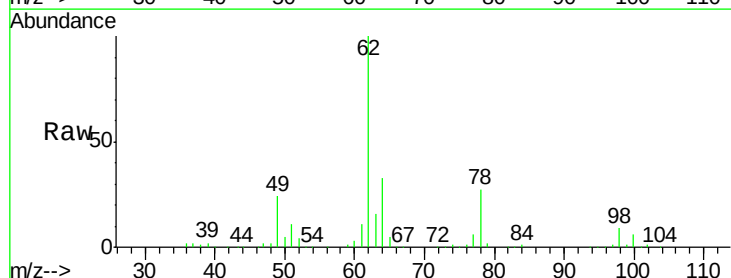
Instrument :
MSVOA_V
ClientSampled :
VSTD05065

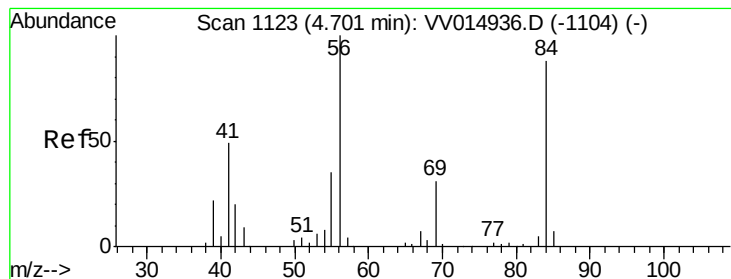
Tgt Ion: 83 Resp: 226249
Ion Ratio Lower Upper
83 100
85 63.7 44.6 82.8



#27
1,2-Dichloroethane
Concen: 49.01 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

Tgt Ion: 62 Resp: 172829
Ion Ratio Lower Upper
62 100
98 9.2 7.4 11.0





#29

Cyclohexane

Concen: 44.51 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

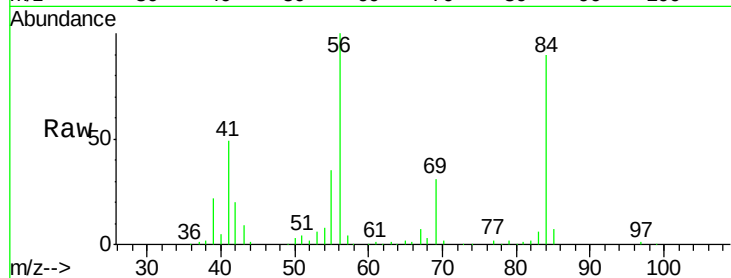
Tgt Ion: 56 Resp: 177137

Ion Ratio Lower Upper

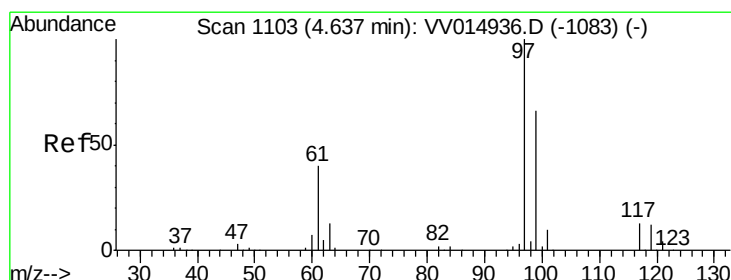
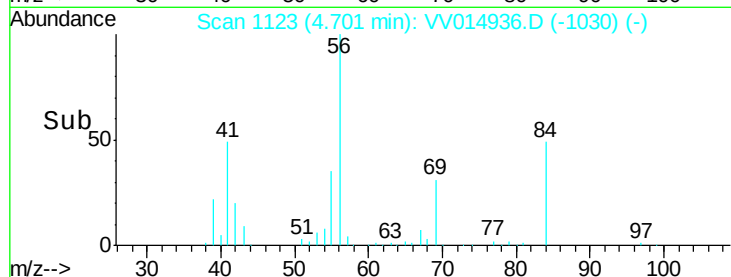
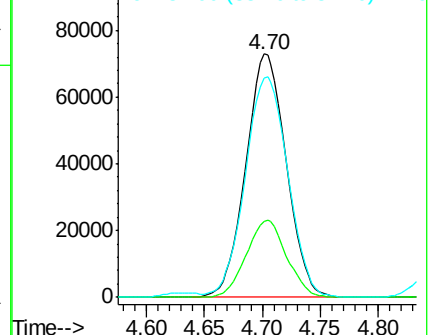
56 100

69 31.5 25.2 37.8

84 95.5 76.4 114.6



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 51.57 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

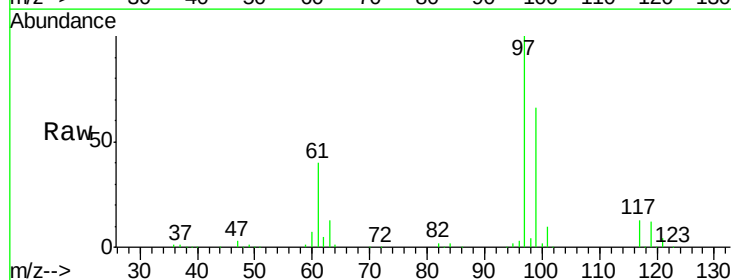
Tgt Ion: 97 Resp: 203773

Ion Ratio Lower Upper

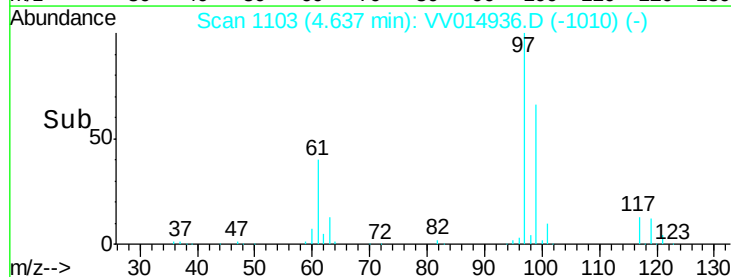
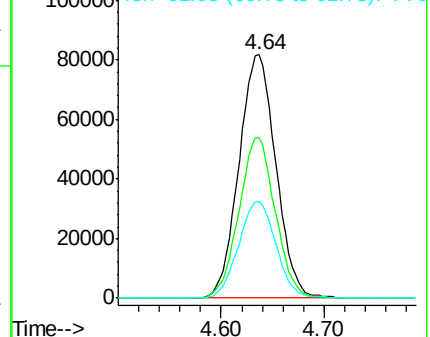
97 100

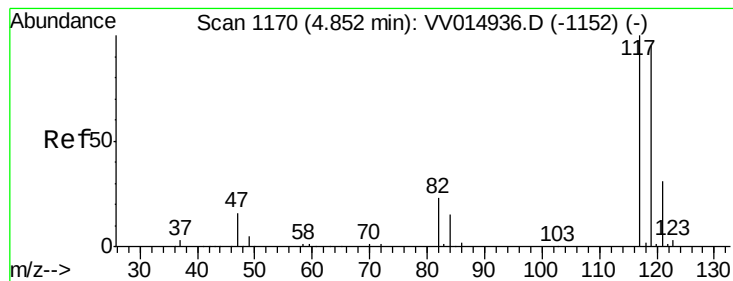
99 64.7 51.8 77.6

61 40.0 32.0 48.0



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 54.30 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

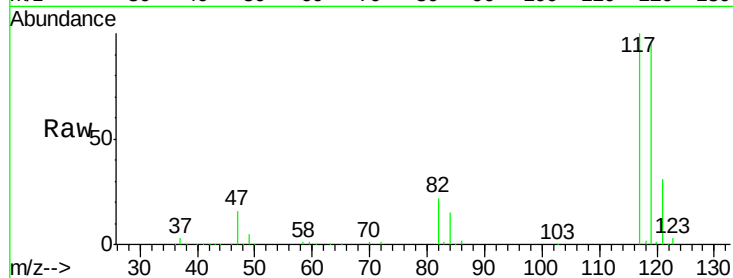
VSTD05065

Tgt Ion:117 Resp: 184086

Ion Ratio Lower Upper

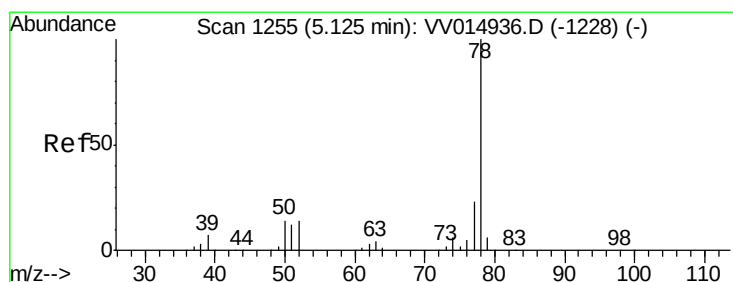
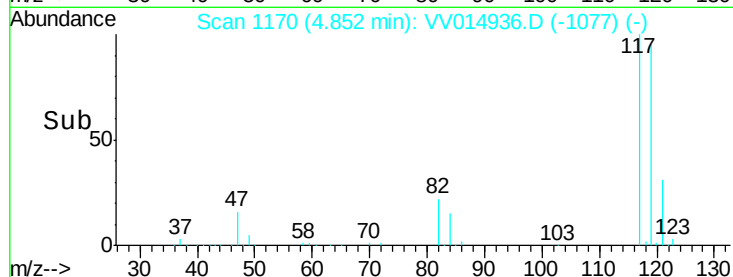
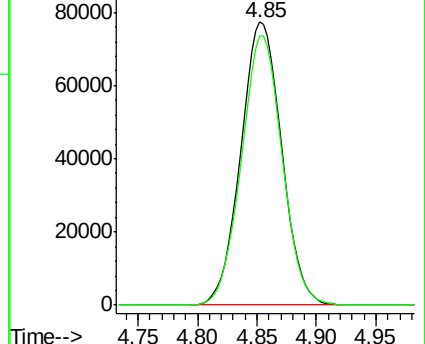
117 100

119 94.9 75.9 113.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.74 ug/L

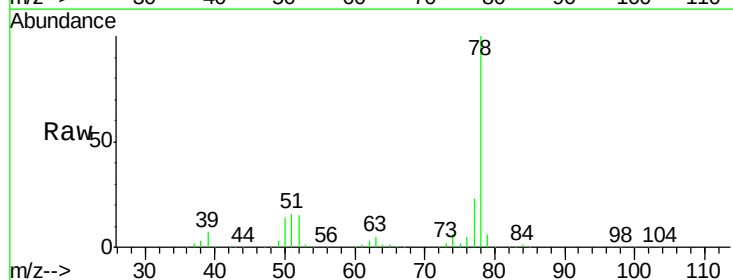
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

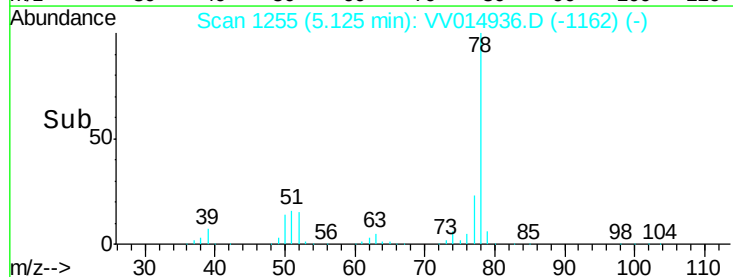
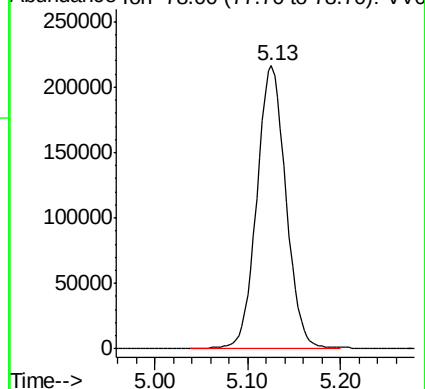
Lab File: VV014936.D

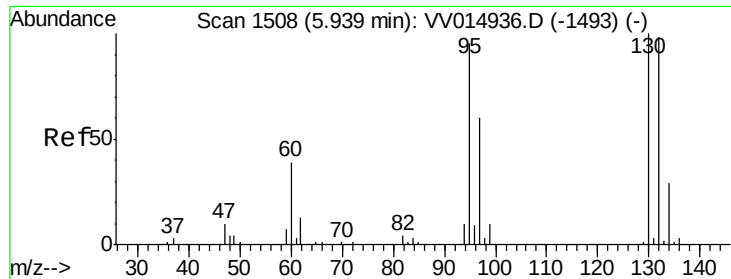
Acq: 16 Mar 2020 10:30

Tgt Ion: 78 Resp: 472044



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 48.61 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tgt Ion: 95 Resp: 123439

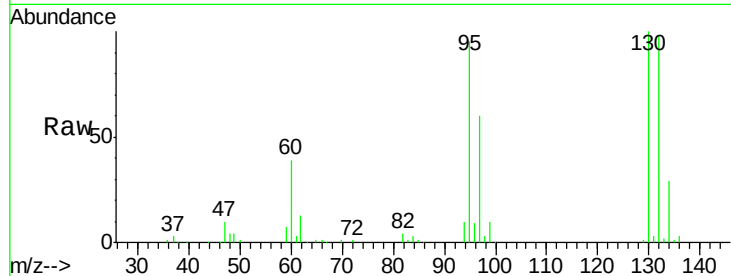
Ion Ratio Lower Upper

95 100

97 63.4 44.4 82.4

132 103.4 72.4 134.4

130 105.8 74.1 137.5

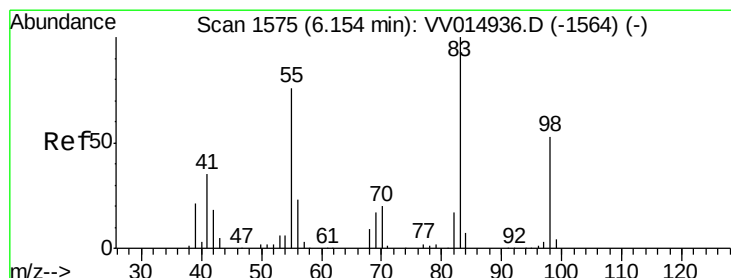
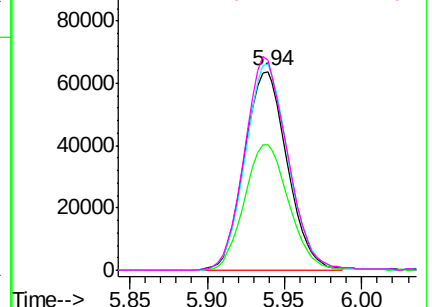
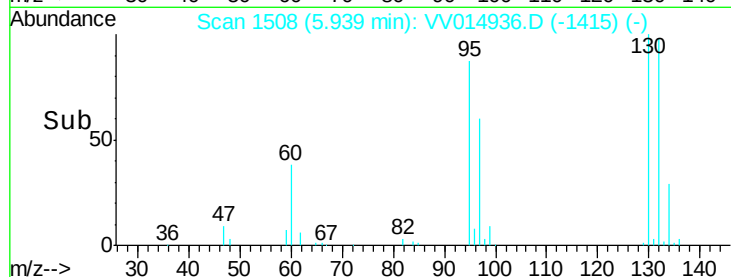


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.50 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

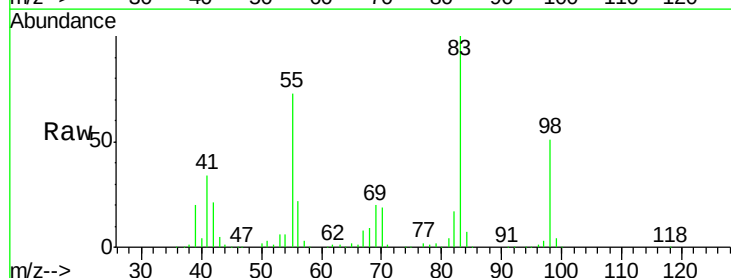
Tgt Ion: 83 Resp: 202895

Ion Ratio Lower Upper

83 100

55 71.9 57.5 86.3

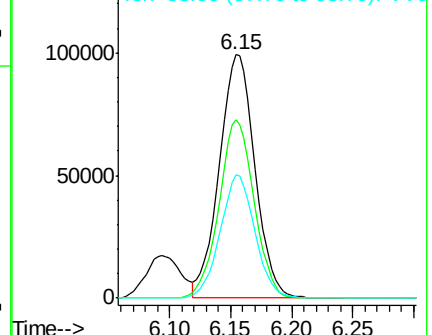
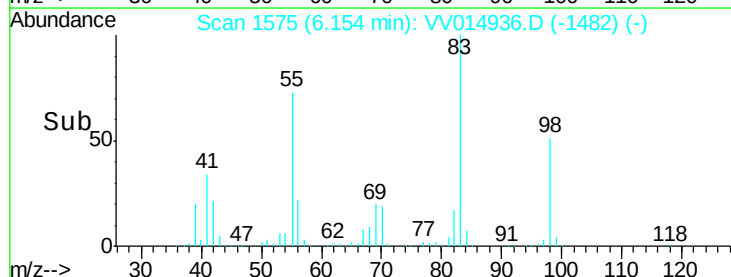
98 49.4 39.5 59.3

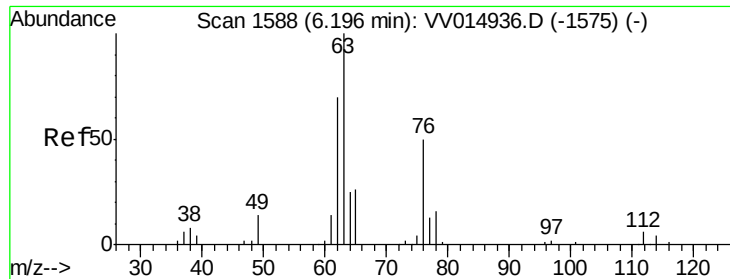


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

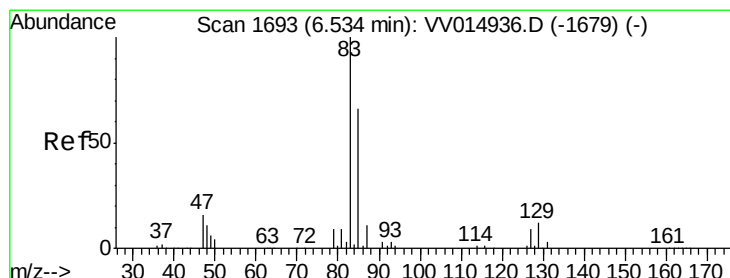
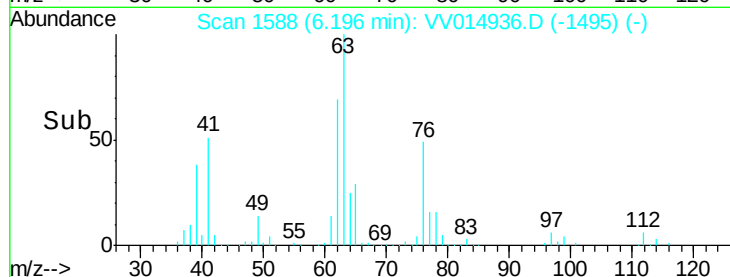
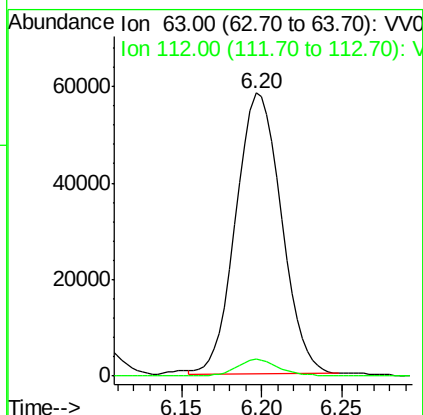
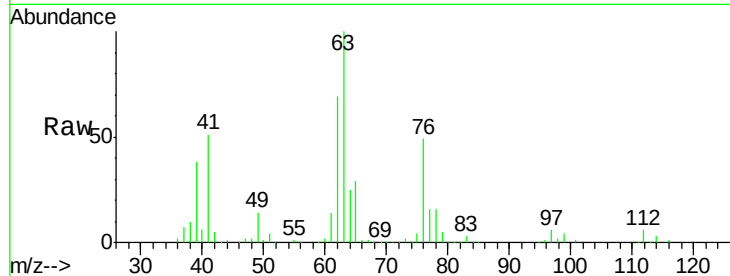




#37
 1,2-Dichloropropane
 Concen: 44.27 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

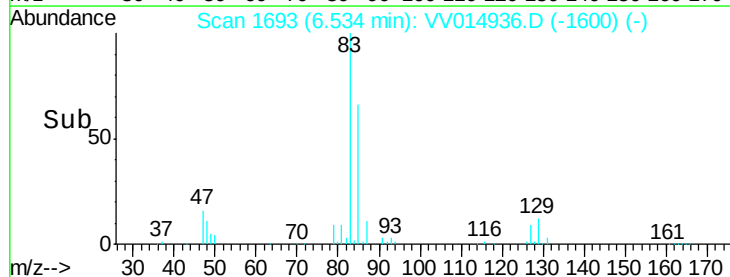
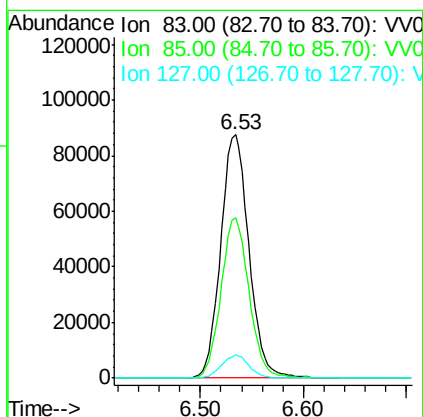
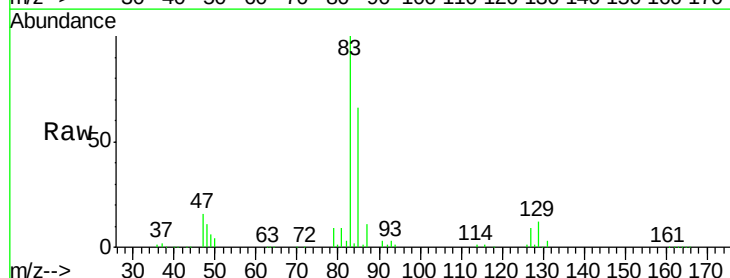
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

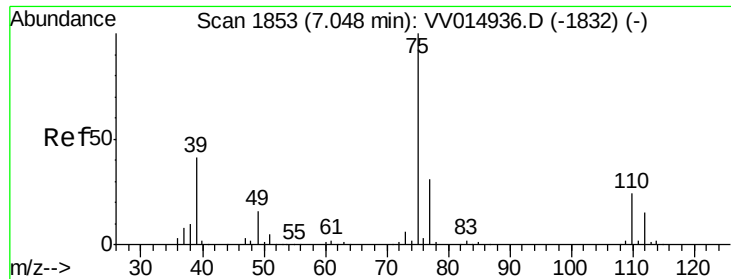
Tgt Ion: 63 Resp: 113239
 Ion Ratio Lower Upper
 63 100
 112 5.5 4.4 6.6



#38
 Bromodichloromethane
 Concen: 49.81 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

Tgt Ion: 83 Resp: 166949
 Ion Ratio Lower Upper
 83 100
 85 65.7 46.0 85.4
 127 9.4 7.5 11.3

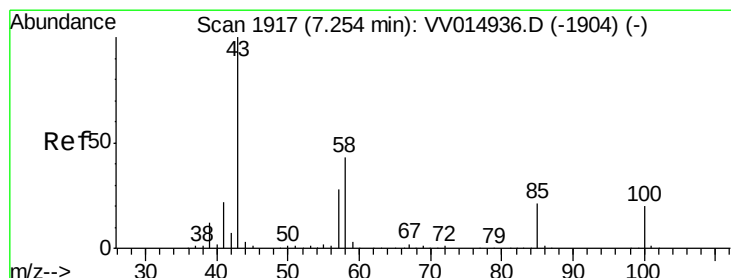
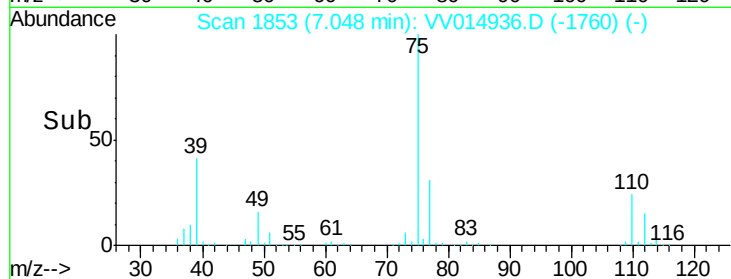
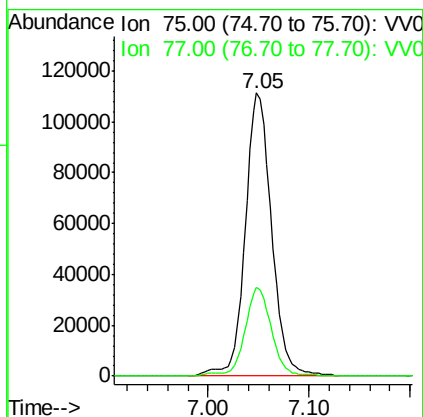
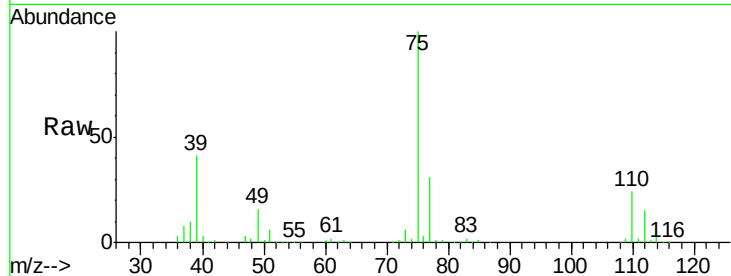




#39
 cis-1,3-Dichloropropene
 Concen: 48.66 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

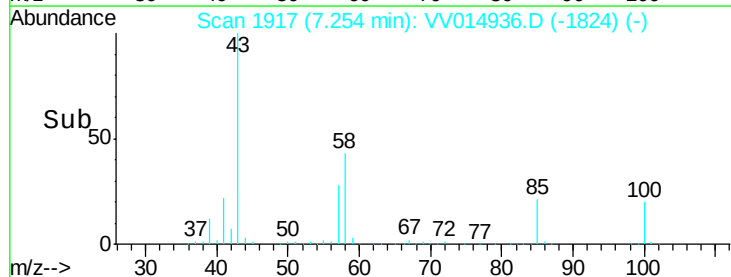
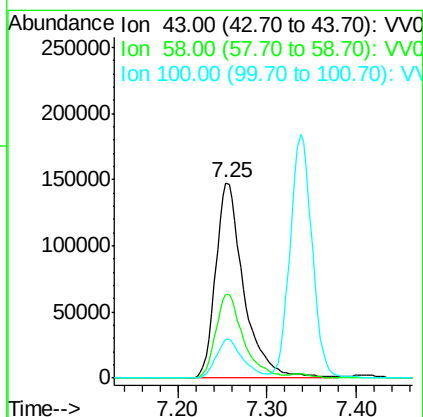
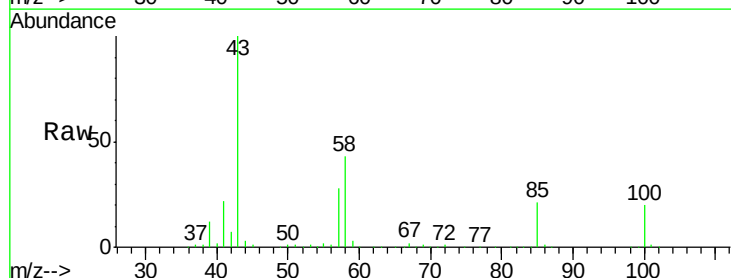
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

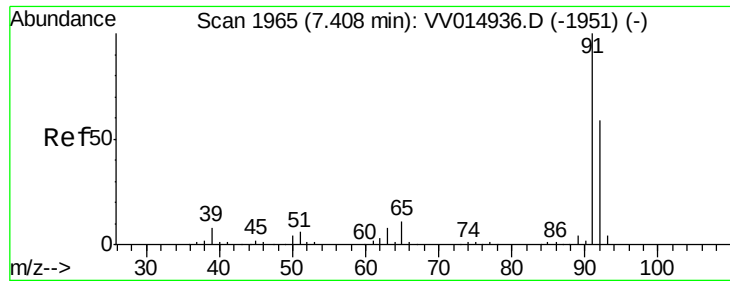
Tgt Ion: 75 Resp: 200218
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 87.19 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

Tgt Ion: 43 Resp: 322157
 Ion Ratio Lower Upper
 43 100
 58 42.4 33.9 50.9
 100 18.9 15.1 22.7





#42

Toluene

Concen: 49.58 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

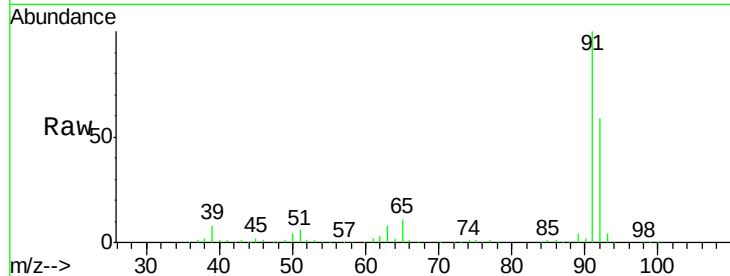
VSTD05065

Tgt Ion: 91 Resp: 532029

Ion Ratio Lower Upper

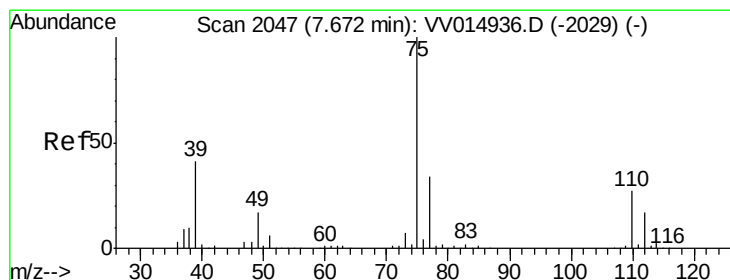
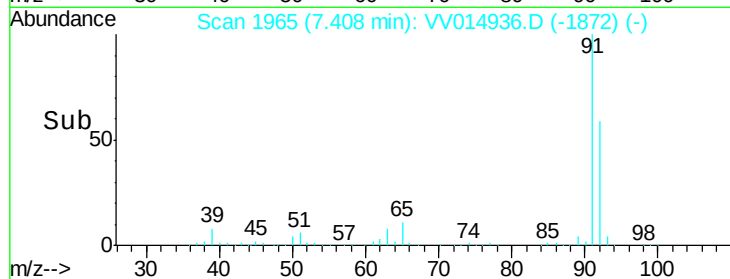
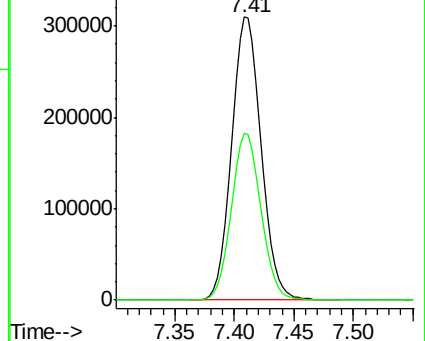
91 100

92 59.1 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 47.24 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV014936.D

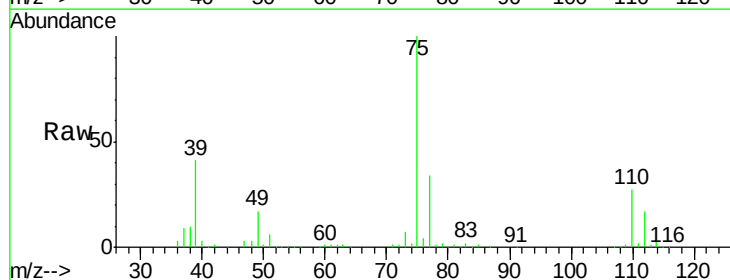
Acq: 16 Mar 2020 10:30

Tgt Ion: 75 Resp: 174961

Ion Ratio Lower Upper

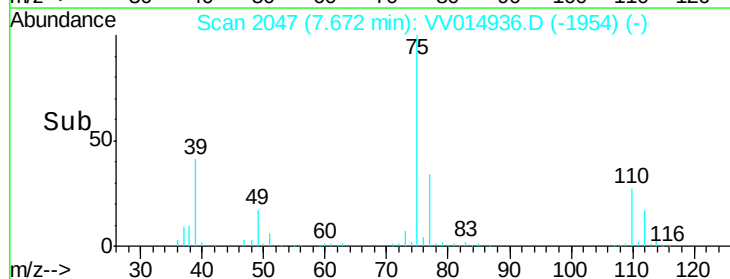
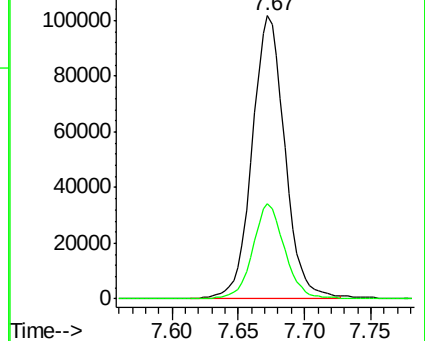
75 100

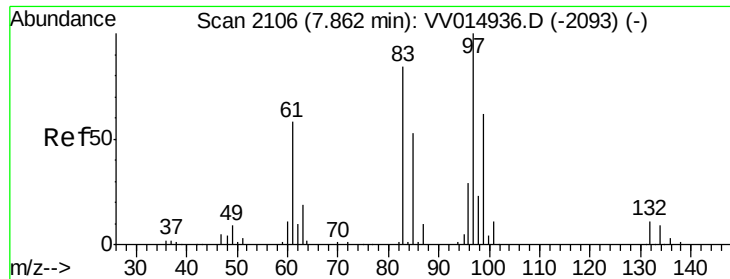
77 33.6 23.5 43.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#45

1,1,2-Trichloroethane

Concen: 49.89 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tgt Ion: 97 Resp: 121616

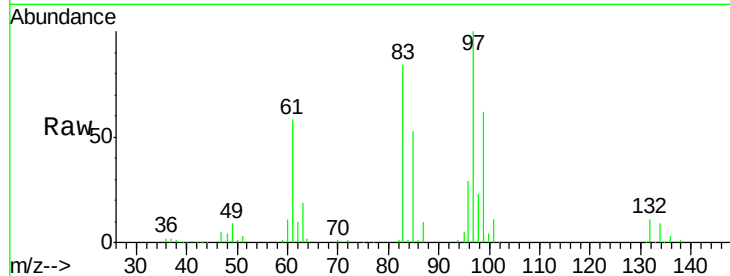
Ion Ratio Lower Upper

97 100

99 62.4 43.7 81.1

83 83.7 58.6 108.8

85 52.8 37.0 68.6

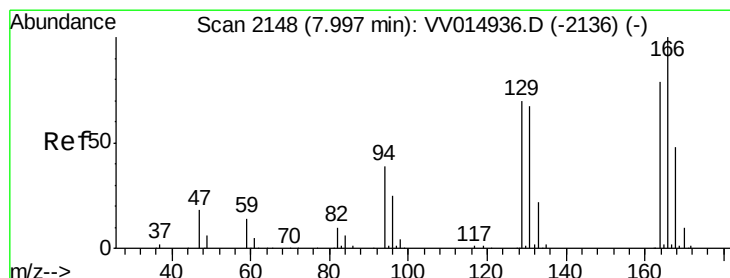
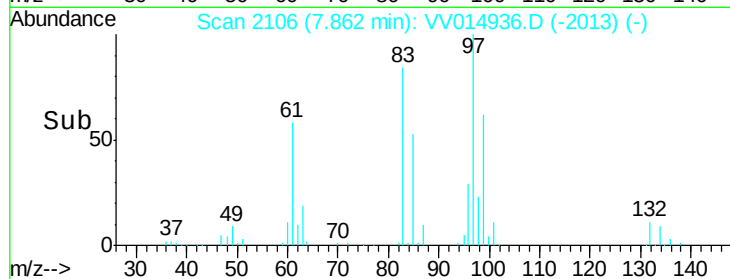
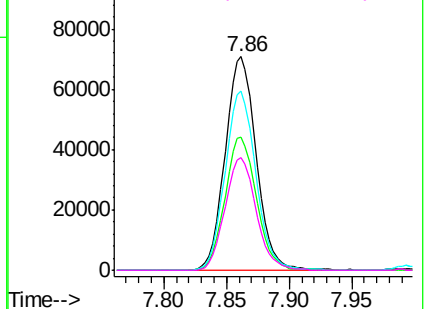


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 54.45 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Tgt Ion: 164 Resp: 116635

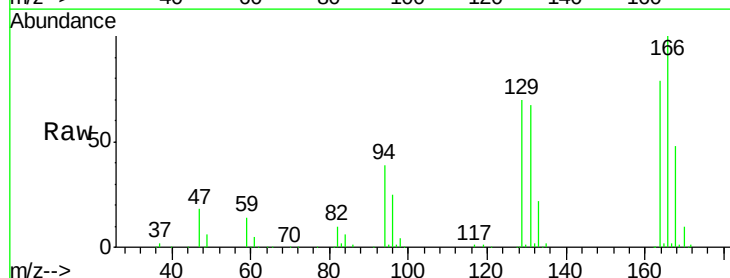
Ion Ratio Lower Upper

164 100

129 88.6 62.0 115.2

131 85.0 59.5 110.5

166 126.5 88.5 164.4

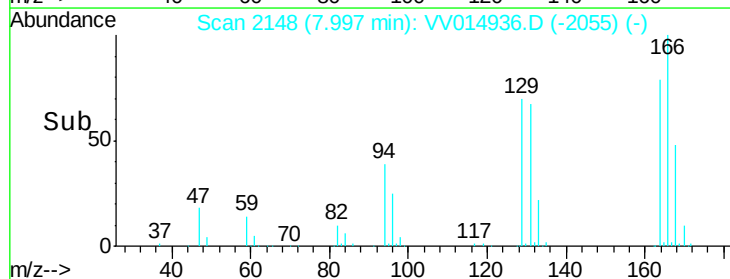
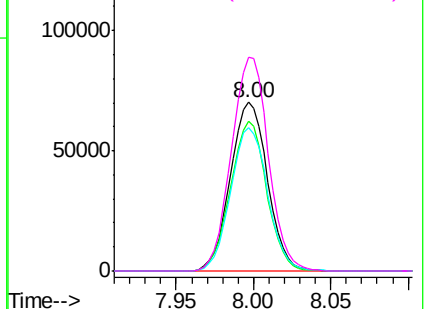


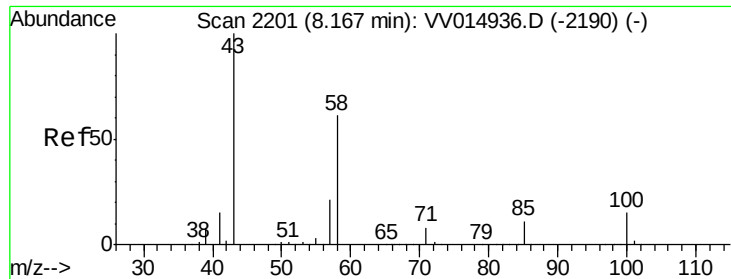
Abundance Ion 164.00 (163.70 to 164.70): V

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

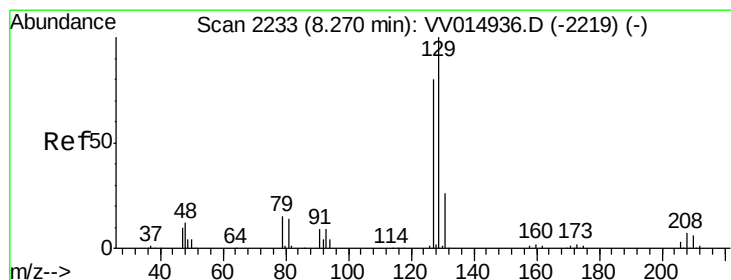
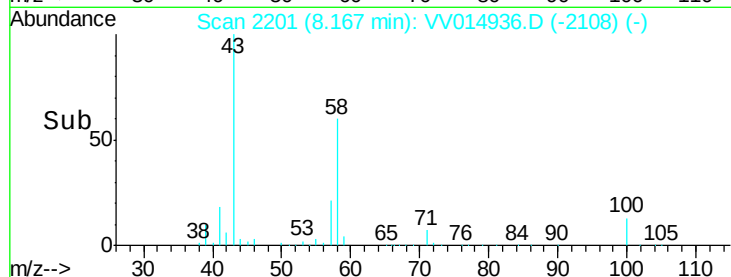
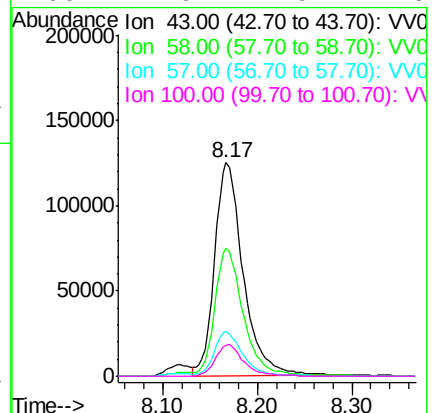
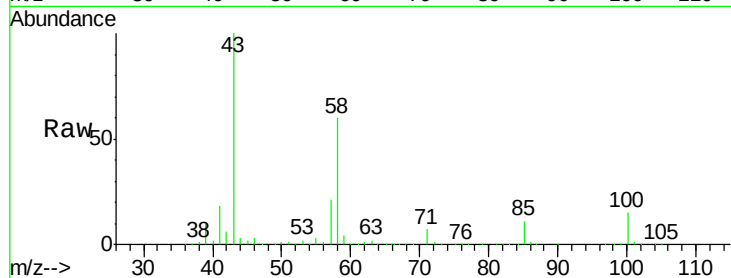




#48
2-Hexanone
Concen: 90.30 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

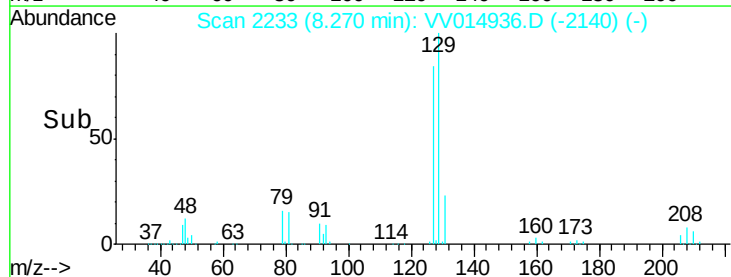
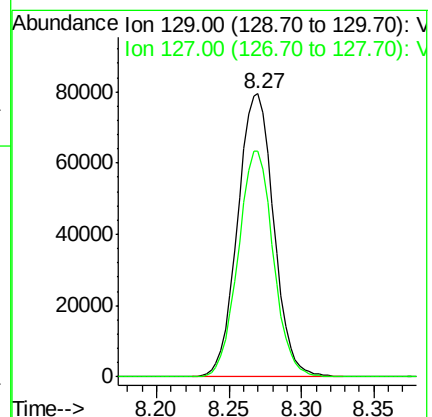
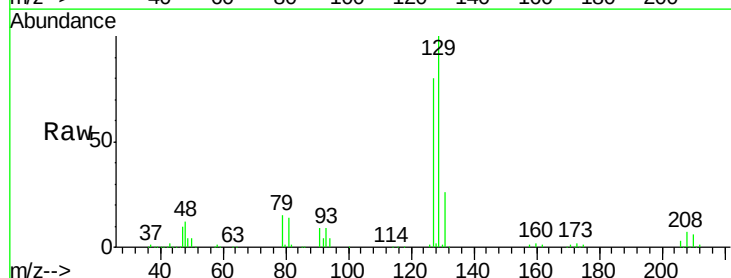
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

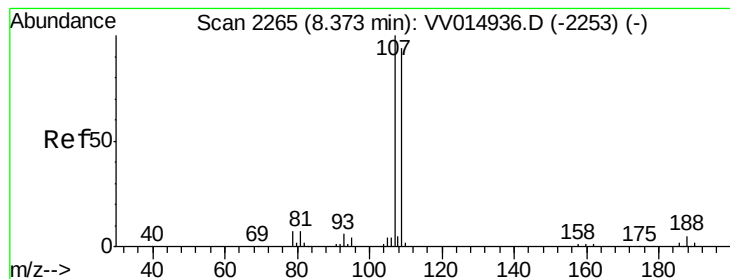
Tgt Ion: 43 Resp: 262110
Ion Ratio Lower Upper
43 100
58 58.6 46.9 70.3
57 20.3 16.2 24.4
100 14.9 11.9 17.9



#49
Dibromochloromethane
Concen: 51.55 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

Tgt Ion: 129 Resp: 137374
Ion Ratio Lower Upper
129 100
127 79.9 55.9 103.9





#50

1,2-Dibromoethane

Concen: 50.49 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

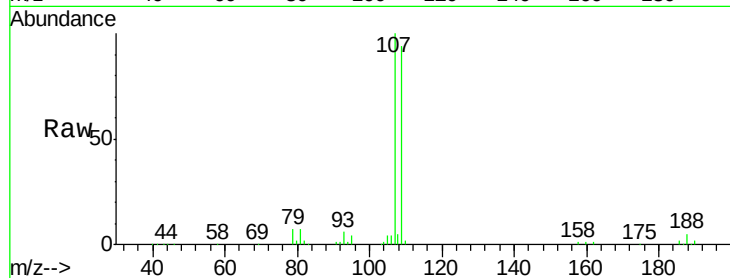
Tgt Ion:107 Resp: 132935

Ion Ratio Lower Upper

107 100

109 94.4 66.1 122.7

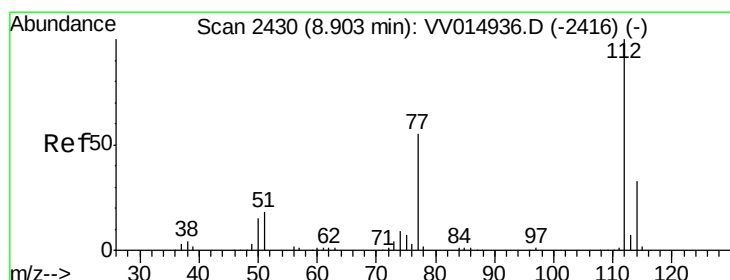
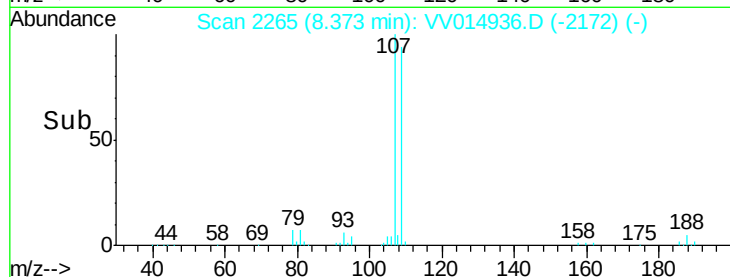
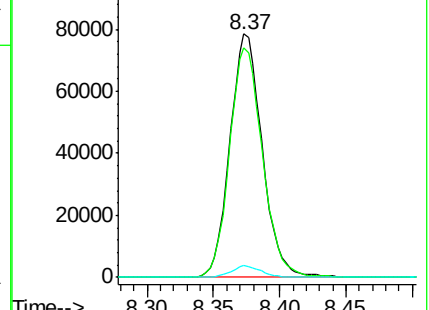
188 5.0 4.0 6.0



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: 51.57 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

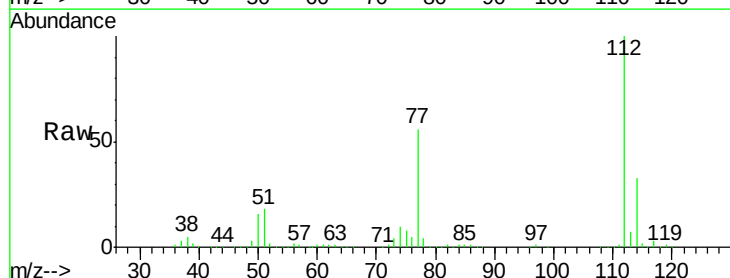
Tgt Ion:112 Resp: 360197

Ion Ratio Lower Upper

112 100

114 32.6 22.8 42.4

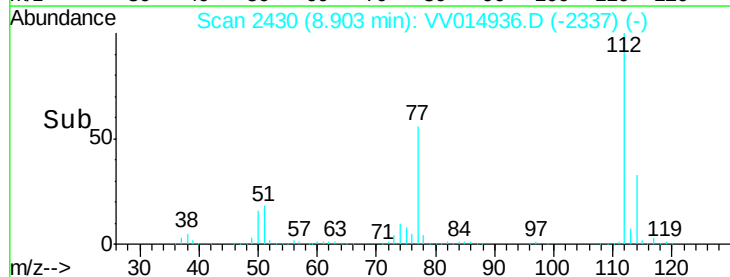
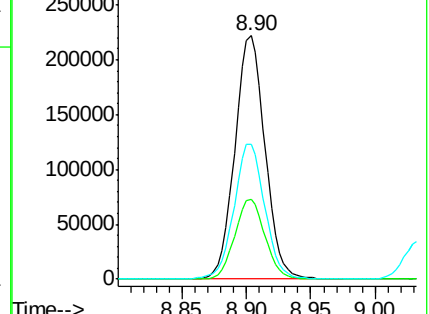
77 55.6 44.5 66.7

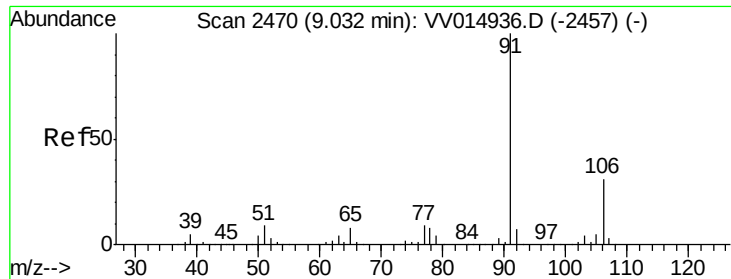


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 50.35 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

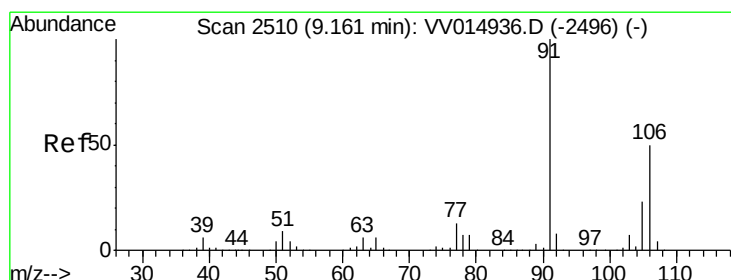
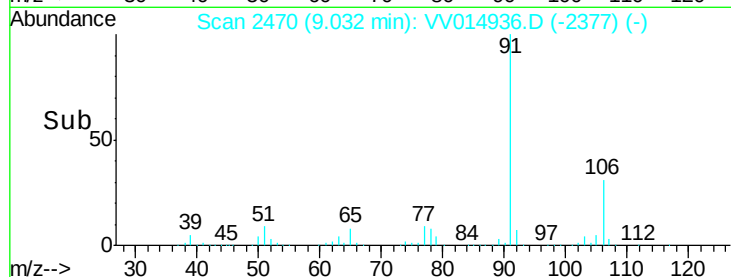
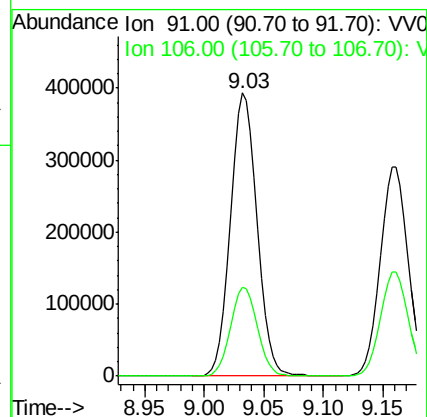
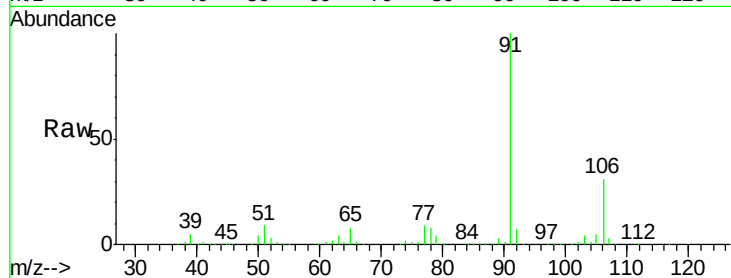
VSTD05065

Tgt Ion: 91 Resp: 610044

Ion Ratio Lower Upper

91 100

106 31.3 21.9 40.7



#53

m,p-Xylene

Concen: 51.45 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV014936.D

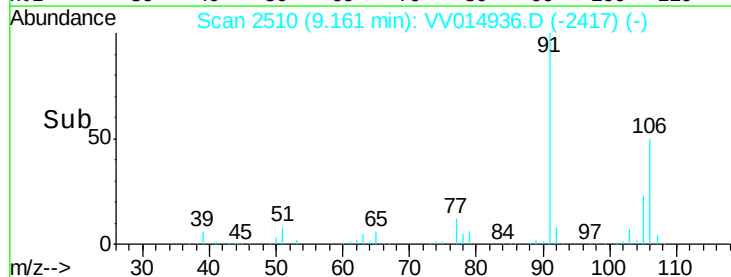
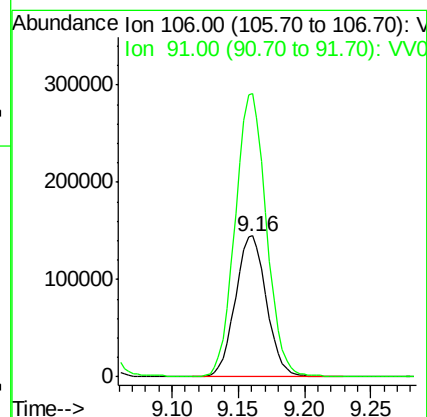
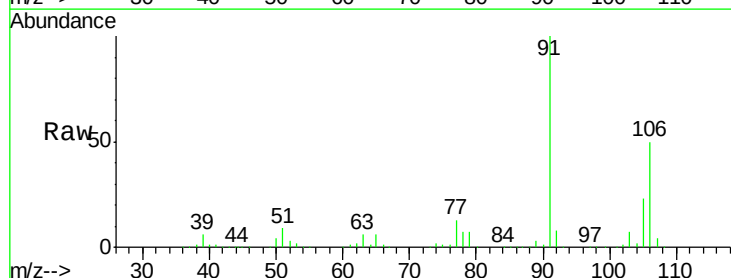
Acq: 16 Mar 2020 10:30

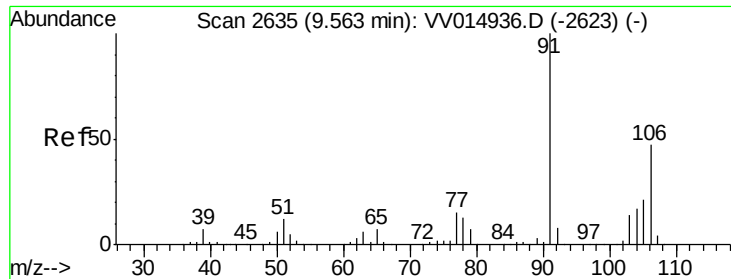
Tgt Ion: 106 Resp: 235494

Ion Ratio Lower Upper

106 100

91 200.5 140.3 260.6

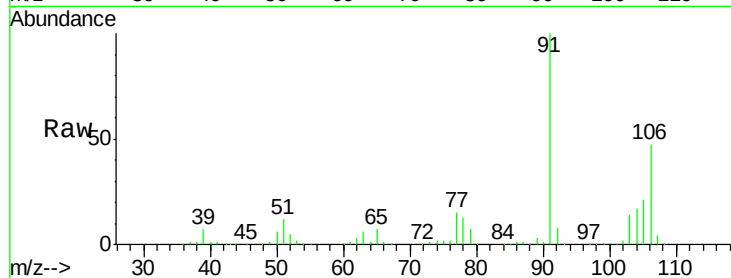




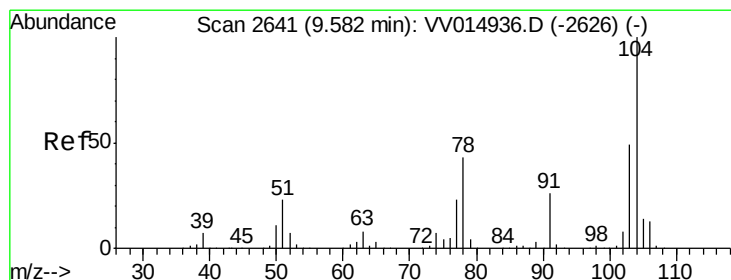
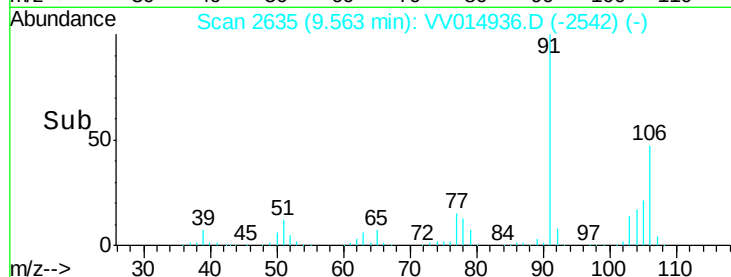
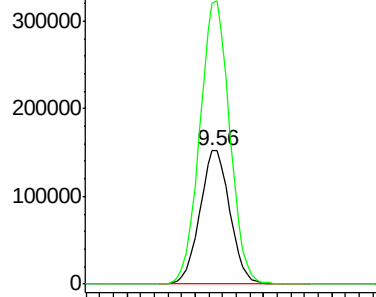
#54
o-xylene
Concen: 51.83 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tgt Ion:106 Resp: 232977
Ion Ratio Lower Upper
106 100
91 211.3 147.9 274.7

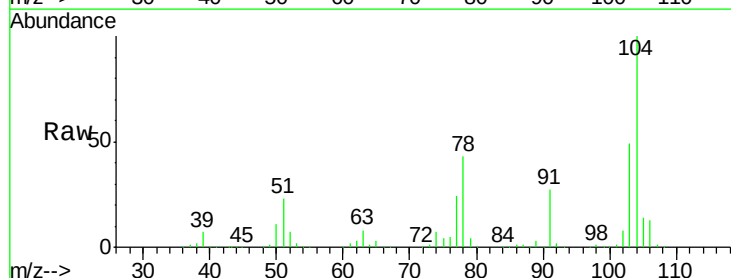


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

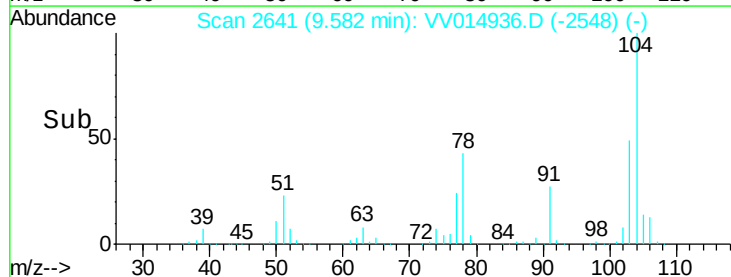
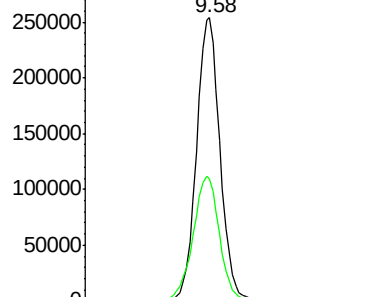


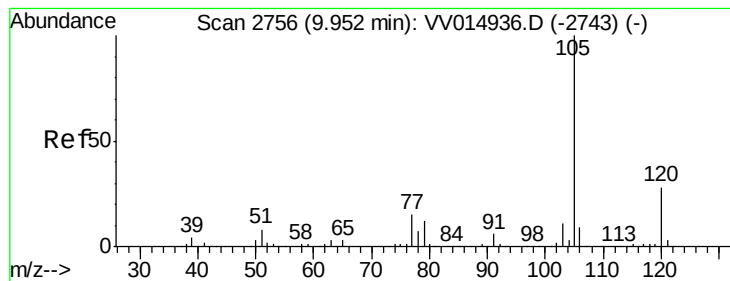
#55
Styrene
Concen: 52.52 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV014936.D
Acq: 16 Mar 2020 10:30

Tgt Ion:104 Resp: 403447
Ion Ratio Lower Upper
104 100
78 43.0 30.1 55.9



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 51.65 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampled :

VSTD05065

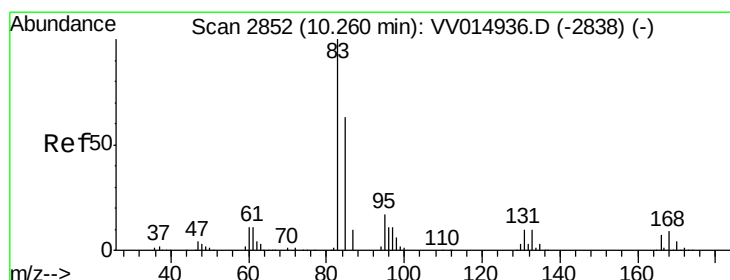
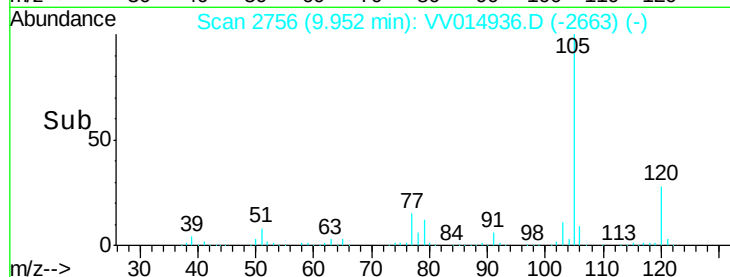
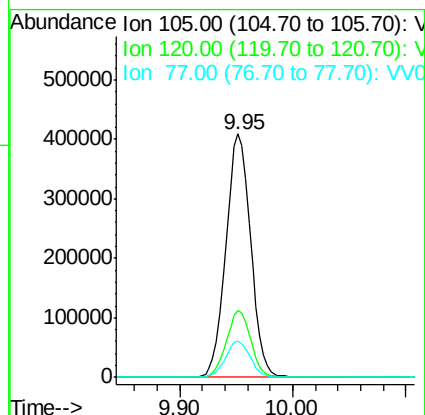
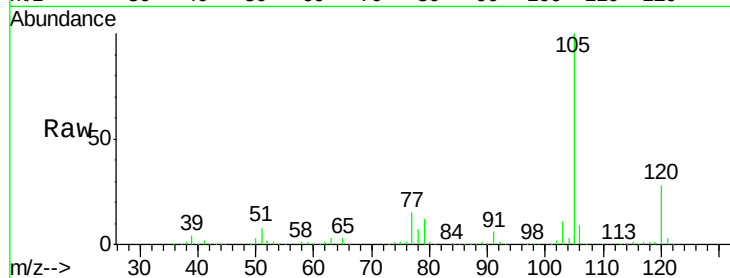
Tgt Ion: 105 Resp: 622810

Ion Ratio Lower Upper

105 100

120 27.0 21.6 32.4

77 14.9 11.9 17.9



#58

1,1,2,2-Tetrachloroethane

Concen: 48.48 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

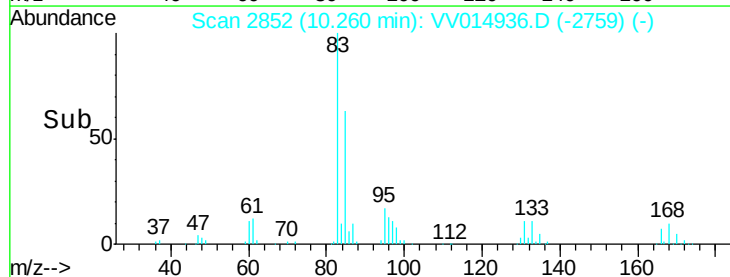
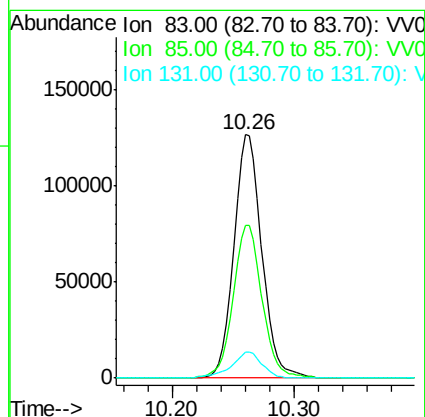
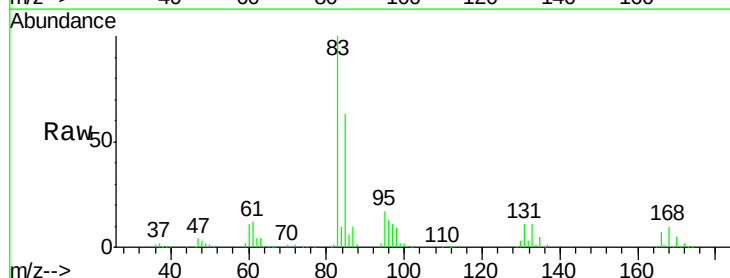
Tgt Ion: 83 Resp: 201712

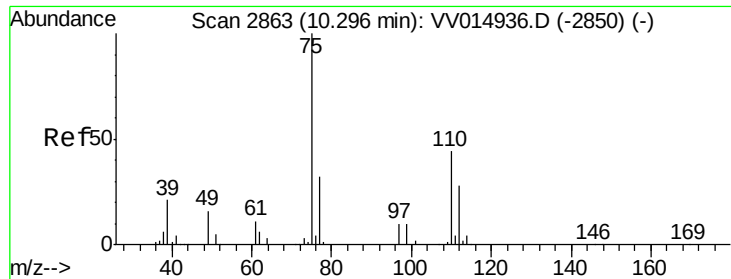
Ion Ratio Lower Upper

83 100

85 62.8 44.0 81.6

131 10.6 8.5 12.7





#59

1,2,3-Trichloropropane

Concen: 48.07 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampleId :

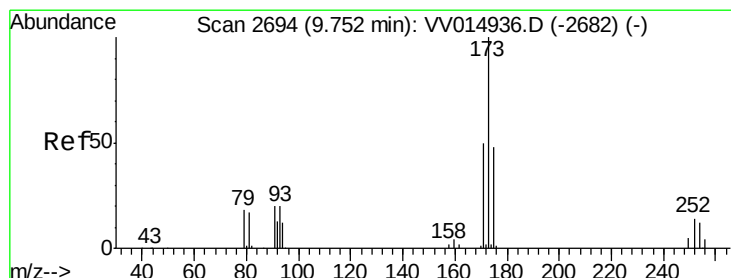
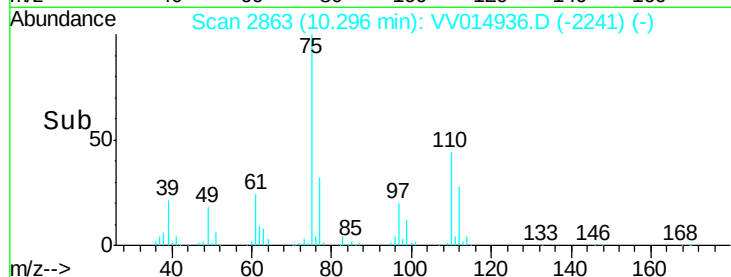
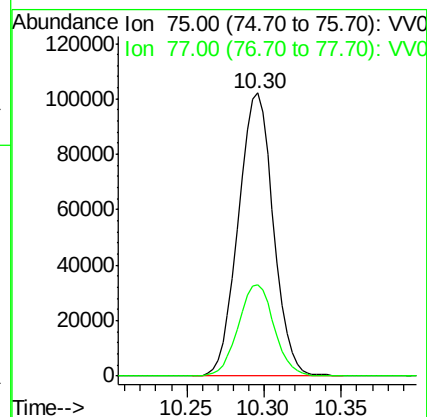
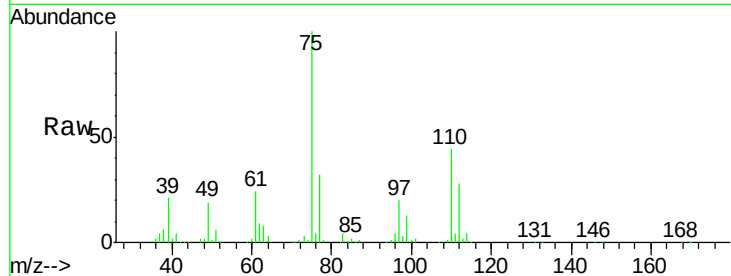
VSTD05065

Tgt Ion: 75 Resp: 160389

Ion Ratio Lower Upper

75 100

77 33.3 26.6 40.0



#61

Bromoform

Concen: 50.72 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

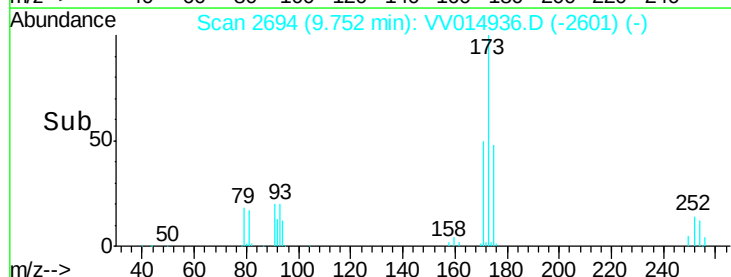
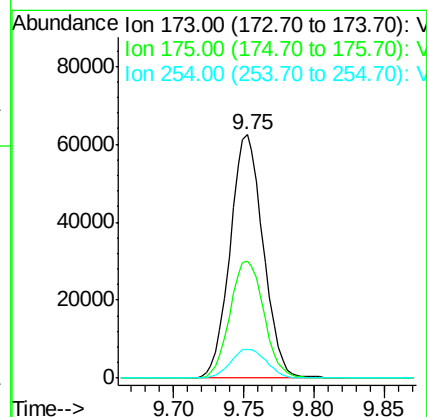
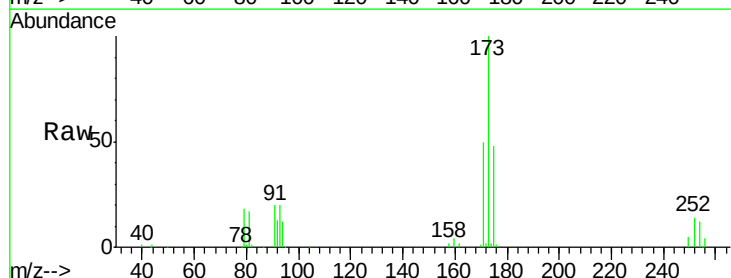
Tgt Ion: 173 Resp: 102188

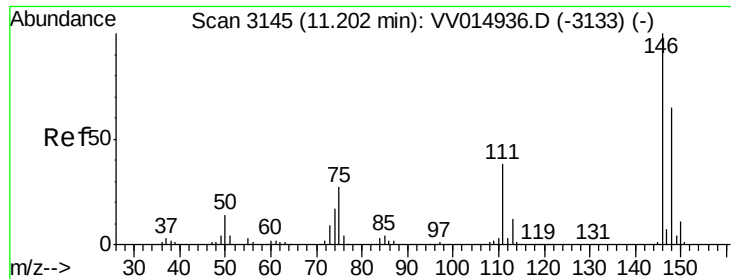
Ion Ratio Lower Upper

173 100

175 49.3 39.4 59.2

254 12.8 10.2 15.4

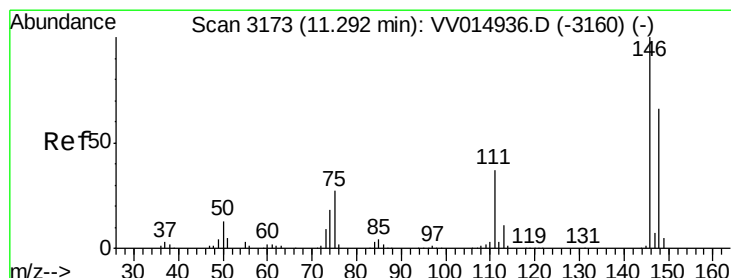
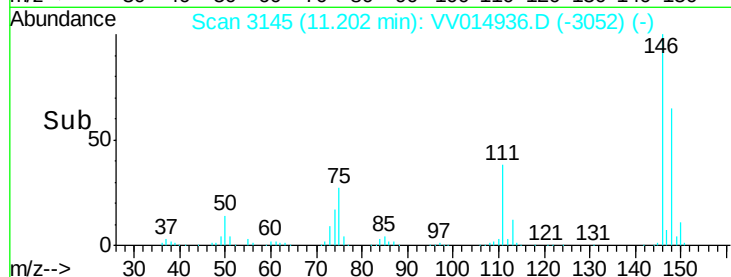
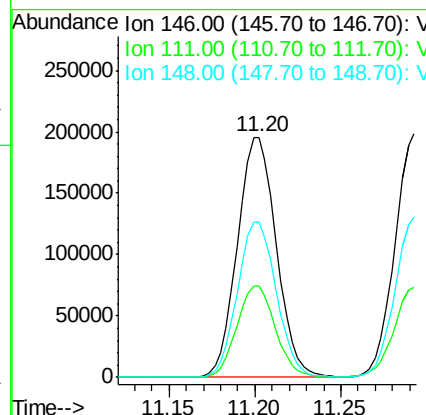
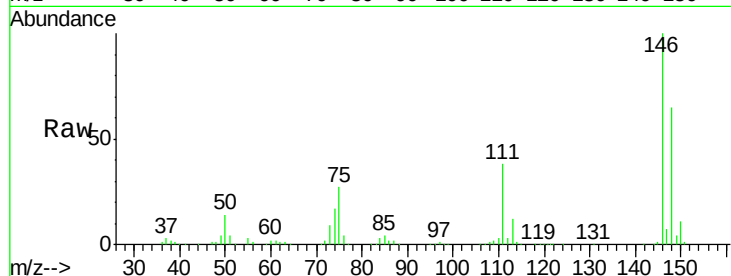




#62
 1,3-Dichlorobenzene
 Concen: 51.20 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

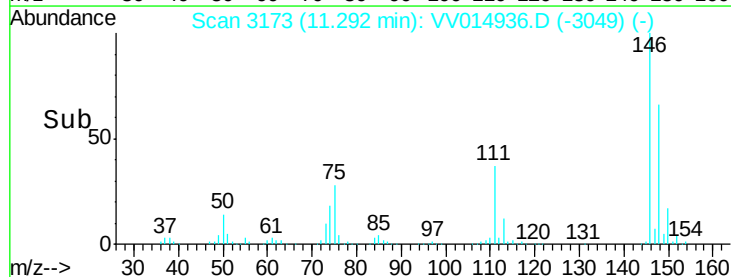
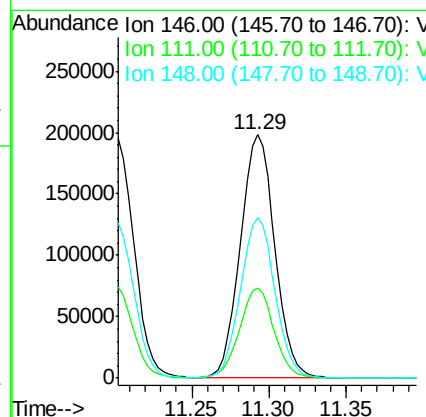
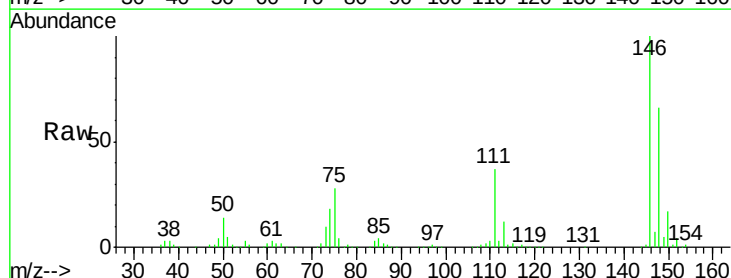
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

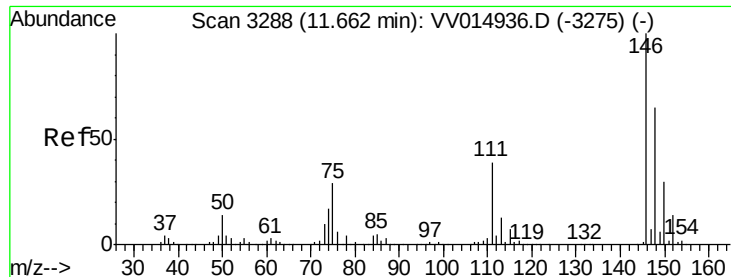
Tgt Ion:146 Resp: 307374
 Ion Ratio Lower Upper
 146 100
 111 37.9 26.5 49.3
 148 64.8 45.4 84.2



#63
 1,4-Dichlorobenzene
 Concen: 50.63 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

Tgt Ion:146 Resp: 304642
 Ion Ratio Lower Upper
 146 100
 111 37.1 26.0 48.2
 148 65.8 46.1 85.5

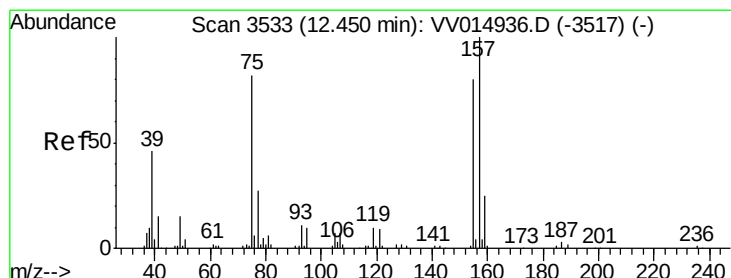
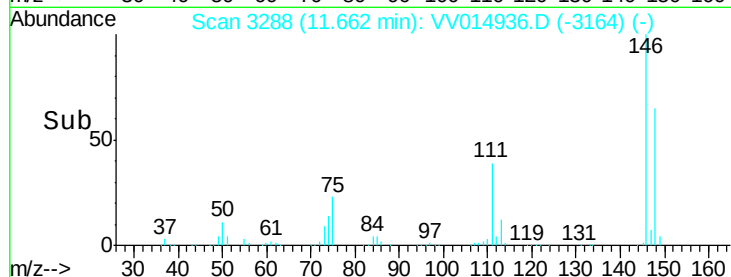
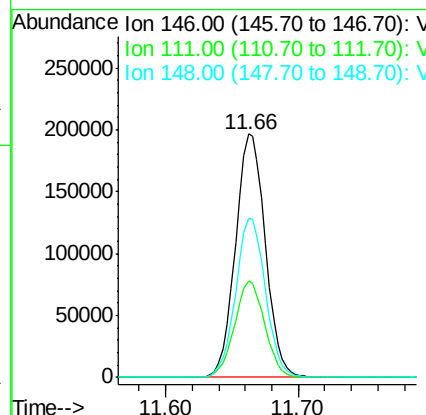
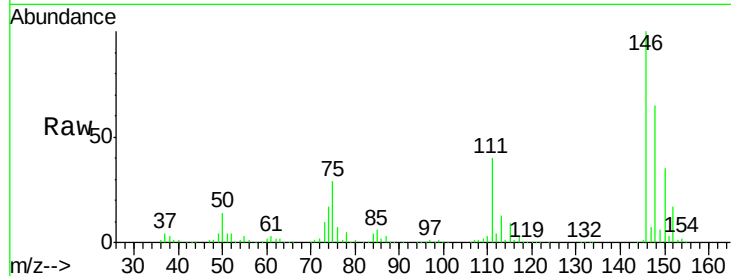




#65
 1,2-Dichlorobenzene
 Concen: 51.26 ug/L
 RT: 11.66 min Scan# 3288
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

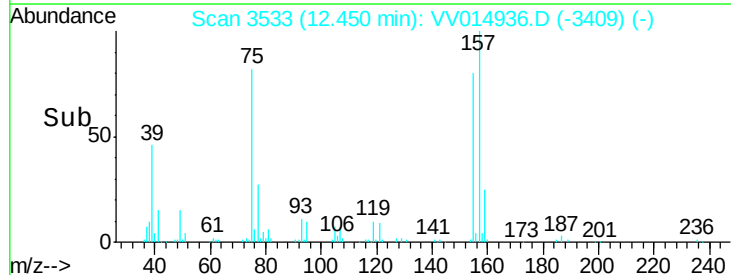
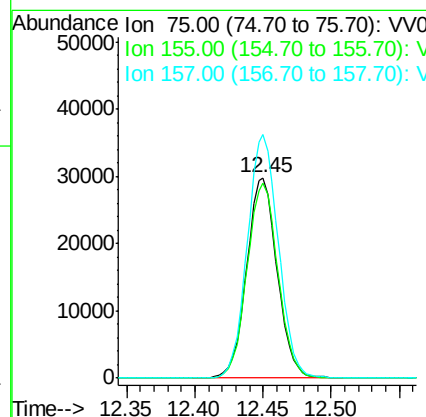
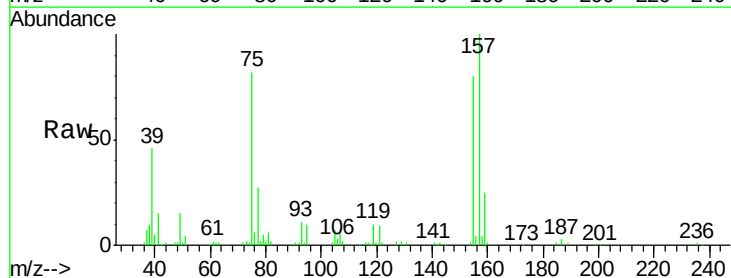
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

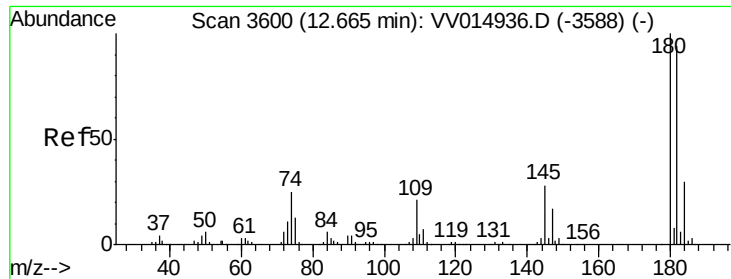
Tgt Ion: 146 Resp: 307637
 Ion Ratio Lower Upper
 146 100
 111 39.5 31.6 47.4
 148 65.3 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.56 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

Tgt Ion: 75 Resp: 46231
 Ion Ratio Lower Upper
 75 100
 155 97.1 77.7 116.5
 157 121.5 97.2 145.8

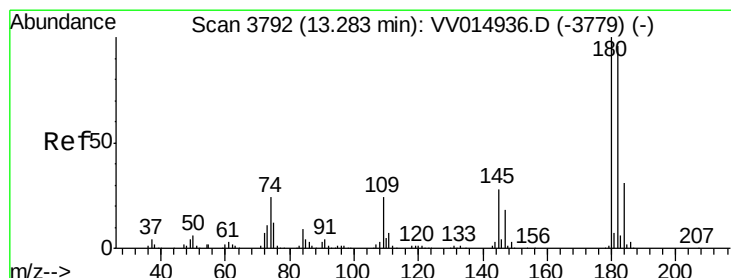
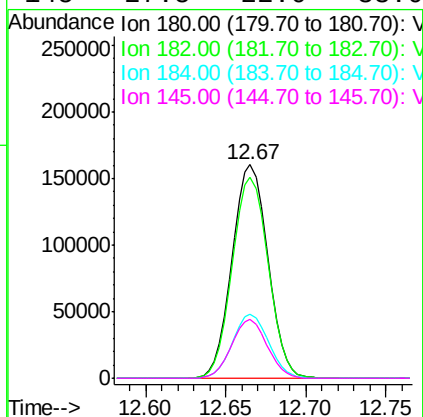
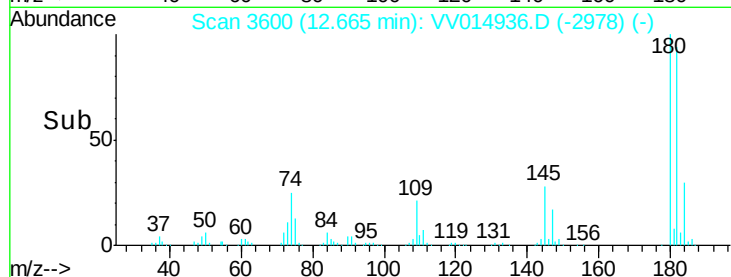
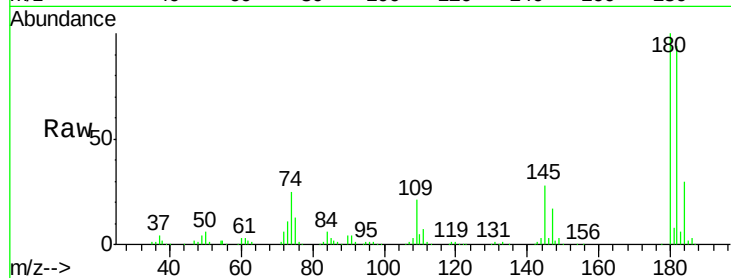




#67
 1,3,5-Trichlorobenzene
 Concen: 52.14 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

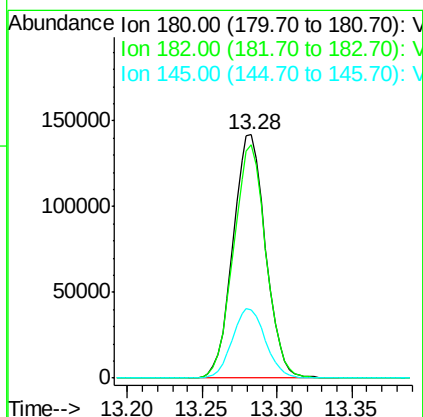
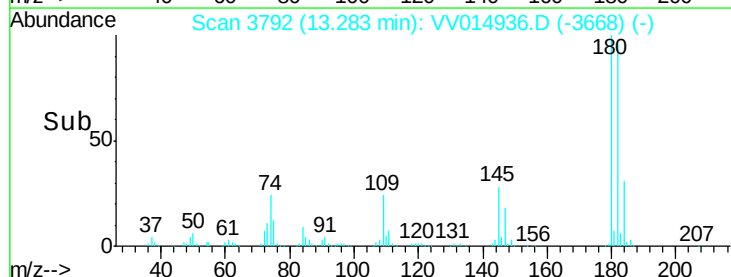
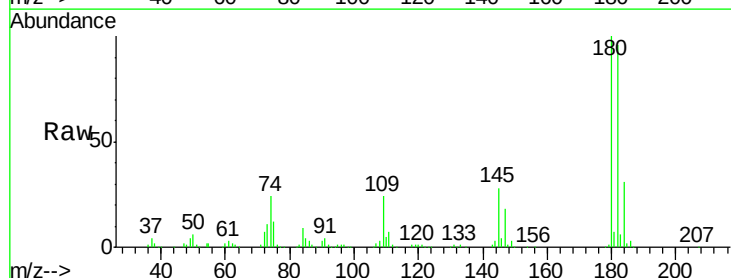
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

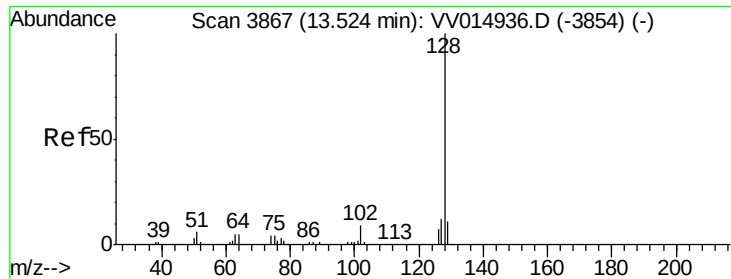
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.7	113.5
184	30.3	24.2	36.4
145	27.5	22.0	33.0



#68
 1,2,4-trichlorobenzene
 Concen: 50.54 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV014936.D
 Acq: 16 Mar 2020 10:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.3	114.5
145	28.9	23.1	34.7





#69

Naphthalene

Concen: 46.60 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

Instrument :

MSVOA_V

ClientSampled :

VSTD05065

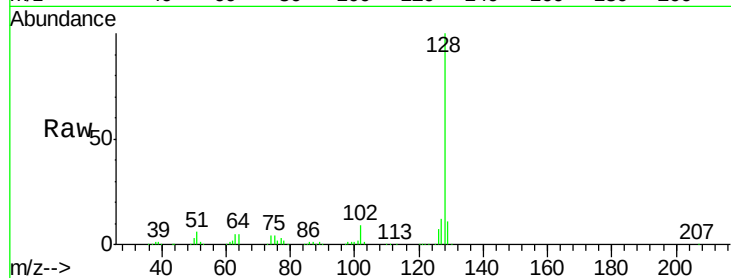
Tgt Ion:128 Resp: 292076

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

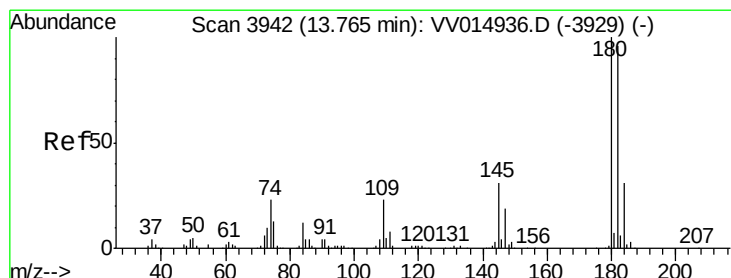
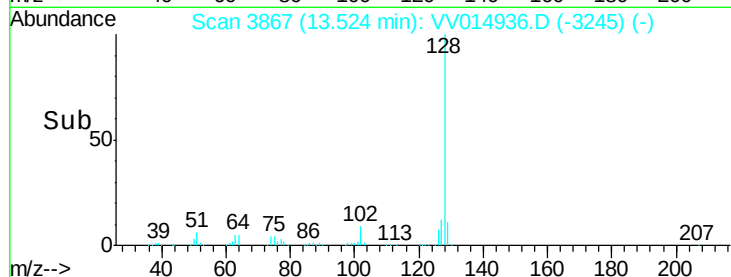
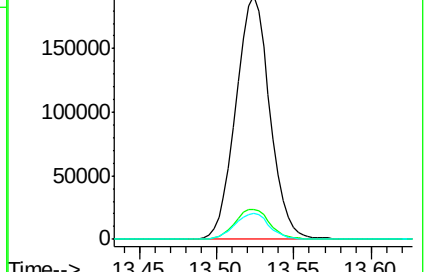
129 10.8 8.6 13.0



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: 52.13 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV014936.D

Acq: 16 Mar 2020 10:30

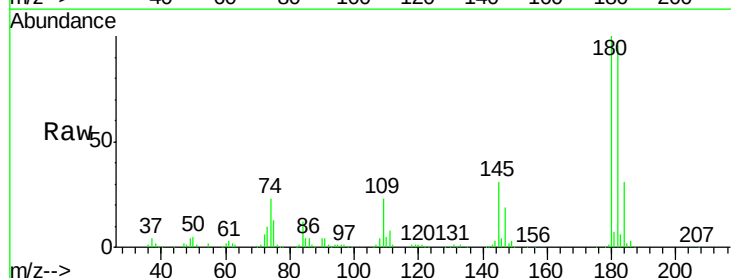
Tgt Ion:180 Resp: 222487

Ion Ratio Lower Upper

180 100

182 95.3 76.2 114.4

145 30.1 24.1 36.1



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

