

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY051220\
 Data File : VY002658.D
 Acq On : 12 May 2020 10:53
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Quant Time: May 13 02:21:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	417739	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.69	114	612081	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	535237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	267146	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	154454	43.97	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	87.94%	
35) Dibromofluoromethane	7.73	113	173714	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
50) Toluene-d8	10.18	98	676310	49.47	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.49	95	228079	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	168680	48.91	ug/l	98
3) Chloromethane	2.12	50	168753	49.86	ug/l	100
4) Vinyl Chloride	2.26	62	196500	50.28	ug/l	100
5) Bromomethane	2.66	94	134580	49.94	ug/l	100
6) Chloroethane	2.80	64	117623	50.41	ug/l	98
7) Trichlorofluoromethane	3.13	101	311595	51.45	ug/l	98
8) Diethyl Ether	3.54	74	98135	48.21	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.91	101	194588	52.57	ug/l	98
10) Methyl Iodide	4.10	142	275371	54.60	ug/l	99
11) Tert butyl alcohol	4.96	59	69164	191.39	ug/l	100
12) 1,1-Dichloroethene	3.88	96	190726	53.04	ug/l	96
13) Acrolein	3.74	56	59640	238.67	ug/l	97
14) Allyl chloride	4.49	41	276096	52.69	ug/l	97
15) Acrylonitrile	5.18	53	213015	221.92	ug/l	99
16) Acetone	3.96	43	151515	209.02	ug/l	99
17) Carbon Disulfide	4.21	76	559441	51.71	ug/l	99
18) Methyl Acetate	4.49	43	105198	43.43	ug/l	99
19) Methyl tert-butyl Ether	5.23	73	448652	47.82	ug/l	97
20) Methylene Chloride	4.73	84	194338	47.94	ug/l	96
21) trans-1,2-Dichloroethene	5.23	96	204810	52.11	ug/l	98
22) Diisopropyl ether	6.13	45	532526	50.23	ug/l	97
23) Vinyl Acetate	6.07	43	1573531	236.01	ug/l	100
24) 1,1-Dichloroethane	6.03	63	326354	52.03	ug/l	99
25) 2-Butanone	6.99	43	243509	205.22	ug/l	97
26) 2,2-Dichloropropane	6.99	77	305600	51.26	ug/l	99
27) cis-1,2-Dichloroethene	7.00	96	223448	51.38	ug/l	99
28) Bromochloromethane	7.35	49	140522	54.68	ug/l	98
29) Tetrahydrofuran	7.35	42	172942	220.29	ug/l	99
30) Chloroform	7.52	83	330405	50.66	ug/l	99
31) Cyclohexane	7.79	56	315138	49.92	ug/l	98
32) 1,1,1-Trichloroethane	7.71	97	315221	52.00	ug/l	99
36) 1,1-Dichloropropene	7.92	75	271423	52.90	ug/l	100
37) Ethyl Acetate	7.08	43	118036	44.77	ug/l	100
38) Carbon Tetrachloride	7.91	117	293604	52.41	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	362524	53.49	ug/l	99
40) Benzene	8.17	78	764397	51.58	ug/l	99
41) Methacrylonitrile	7.35	41	158312	111.67	ug/l #	1
42) 1,2-Dichloroethane	8.24	62	194890	46.88	ug/l	98
43) Isopropyl Acetate	8.28	43	227287	45.98	ug/l	99
44) Trichloroethene	8.94	130	248584	53.67	ug/l	96
45) 1,2-Dichloropropane	9.22	63	183729	51.37	ug/l	100
46) Dibromomethane	9.31	93	99794	48.49	ug/l	98
47) Bromodichloromethane	9.50	83	255495	51.06	ug/l	97
48) Methyl methacrylate	9.30	41	102447	45.79	ug/l	98
49) 1,4-Dioxane	9.30	88	24183	887.54	ug/l	98
51) 4-Methyl-2-Pentanone	10.07	43	579641	227.50	ug/l	99
52) Toluene	10.25	92	496329	52.11	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	263194	50.20	ug/l	98
54) cis-1,3-Dichloropropene	9.93	75	308788	50.95	ug/l	99
55) 1,1,2-Trichloroethane	10.65	97	144328	48.09	ug/l	99
56) Ethyl methacrylate	10.51	69	195132	48.88	ug/l	96
57) 1,3-Dichloropropane	10.79	76	246914	48.52	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.78	63	520906	247.42	ug/l	100
59) 2-Hexanone	10.83	43	389527	222.12	ug/l	99
60) Dibromochloromethane	10.99	129	191602	50.20	ug/l	98
61) 1,2-Dibromoethane	11.09	107	143537	48.30	ug/l	99
64) Tetrachloroethene	10.72	164	272160	57.23	ug/l	98
65) Chlorobenzene	11.52	112	541279	53.20	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.59	131	202672	53.66	ug/l	99
67) Ethyl Benzene	11.59	91	969370	54.24	ug/l	100
68) m/p-Xylenes	11.70	106	751979	108.74	ug/l	100
69) o-Xylene	12.03	106	348591	53.84	ug/l	99
70) Styrene	12.05	104	595667	53.81	ug/l	99
71) Bromoform	12.21	173	118601	50.59	ug/l #	99
73) Isopropylbenzene	12.33	105	964203	55.69	ug/l	100
74) N-amyl acetate	12.14	43	204550	49.11	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	129778	47.13	ug/l	100
76) 1,2,3-Trichloropropane	12.64	75	206756	87.09	ug/l #	100
77) Bromobenzene	12.61	156	238220	55.07	ug/l	95
78) n-propylbenzene	12.67	91	1110742	55.28	ug/l	99
79) 2-Chlorotoluene	12.76	91	608867	54.71	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	796132	55.47	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	59101	49.92	ug/l #	73
82) 4-Chlorotoluene	12.86	91	635602	54.37	ug/l	99
83) tert-Butylbenzene	13.08	119	695779	55.29	ug/l	99
84) 1,2,4-Trimethylbenzene	13.13	105	785693	54.93	ug/l	100
85) sec-Butylbenzene	13.25	105	968129	55.44	ug/l	100
86) p-Isopropyltoluene	13.37	119	904491	55.28	ug/l	99
87) 1,3-Dichlorobenzene	13.37	146	439221	53.65	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	432523	53.35	ug/l	100
89) n-Butylbenzene	13.70	91	819858	55.04	ug/l	100
90) Hexachloroethane	13.96	117	168709	56.62	ug/l	98
91) 1,2-Dichlorobenzene	13.74	146	381172	52.18	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.36	75	23565	45.91	ug/l	99

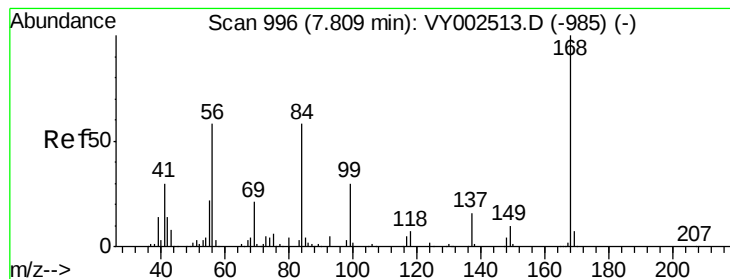
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY051220\
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QLast Update : Mon May 04 12:22:08 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	273628	51.59	ug/l	100
94) Hexachlorobutadiene	15.12	225	173895	54.62	ug/l	99
95) Naphthalene	15.24	128	468462	48.42	ug/l	100
96) 1,2,3-Trichlorobenzene	15.43	180	225010	49.97	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

Instrument :

MSVOA_Y

ClientSampleId :

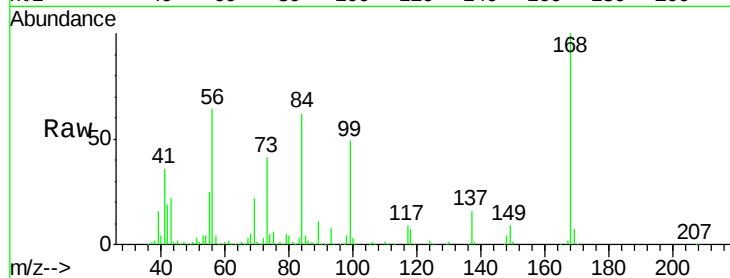
VSTDCCC050

Tgt Ion:168 Resp: 417739

Ion Ratio Lower Upper

168 100

99 48.9 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.80

200000

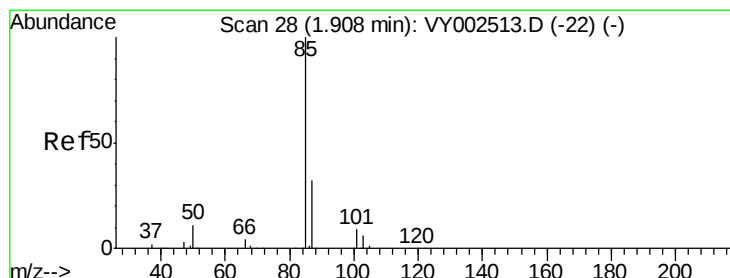
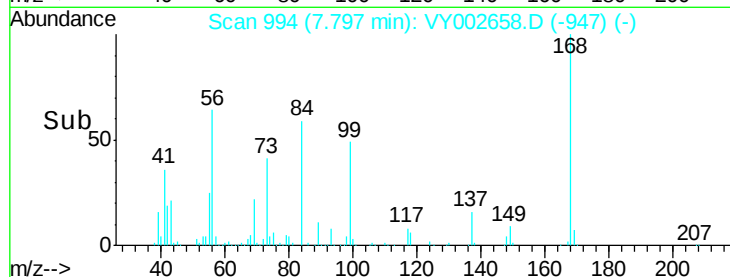
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 48.91 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY002658.D

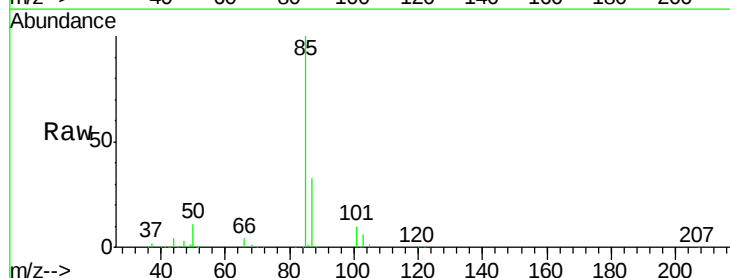
Acq: 12 May 2020 10:53

Tgt Ion: 85 Resp: 168680

Ion Ratio Lower Upper

85 100

87 32.6 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

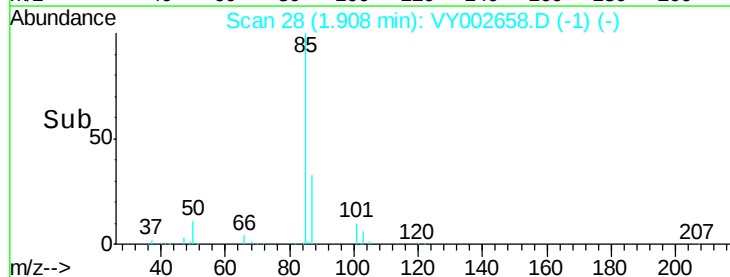
1.91

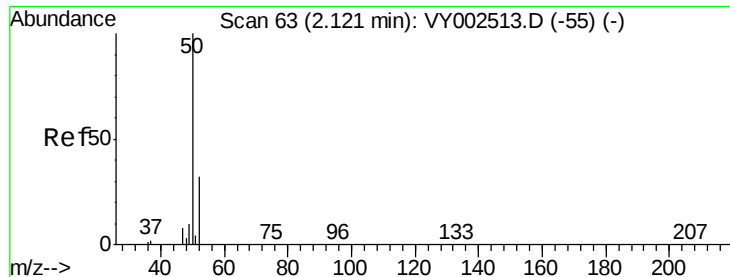
100000

50000

0

Time-->





#3

Chloromethane

Concen: 49.86 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.00 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

Instrument :

MSVOA_Y

ClientSampleId :

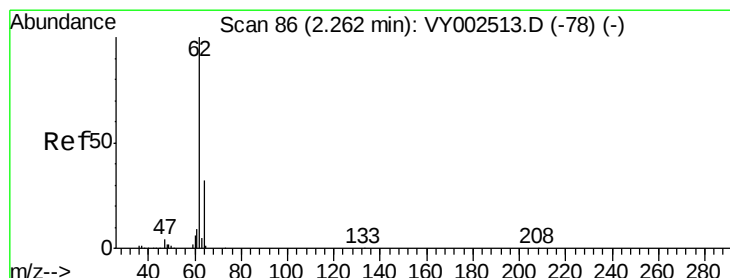
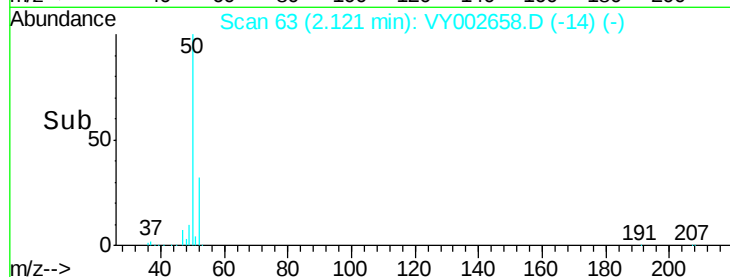
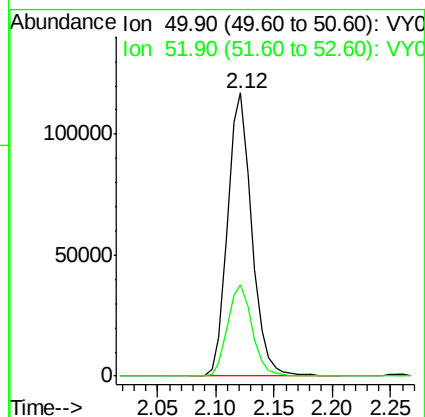
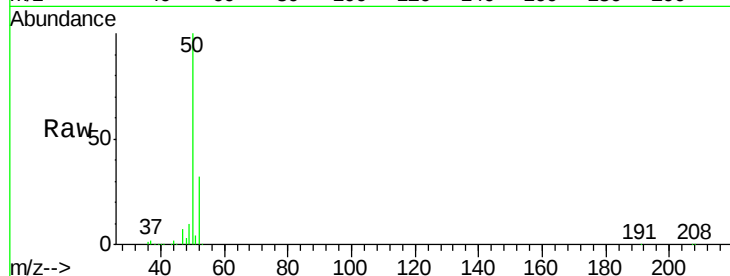
VSTDCCC050

Tgt Ion: 50 Resp: 168753

Ion Ratio Lower Upper

50 100

52 32.4 25.9 38.9



#4

Vinyl Chloride

Concen: 50.28 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY002658.D

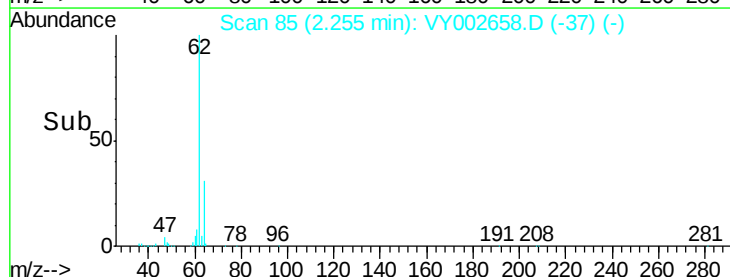
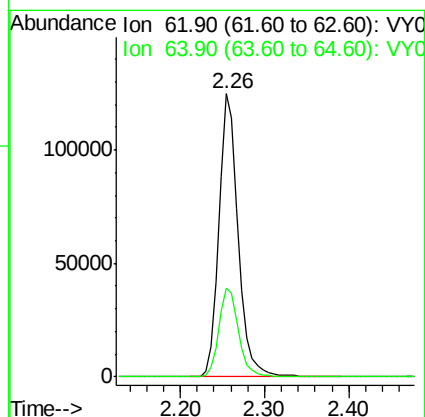
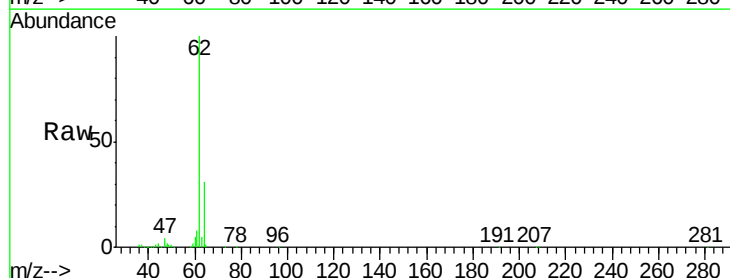
Acq: 12 May 2020 10:53

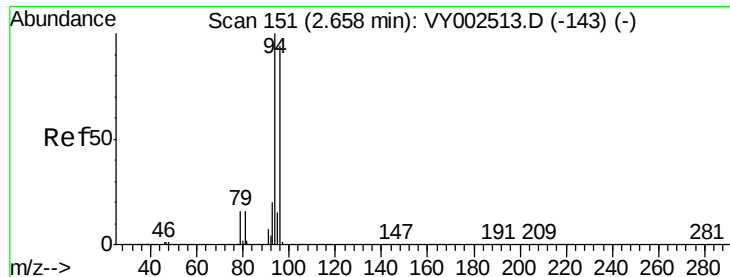
Tgt Ion: 62 Resp: 196500

Ion Ratio Lower Upper

62 100

64 31.5 25.3 37.9





#5

Bromomethane

Concen: 49.94 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.00 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

Instrument :

MSVOA_Y

ClientSampleId :

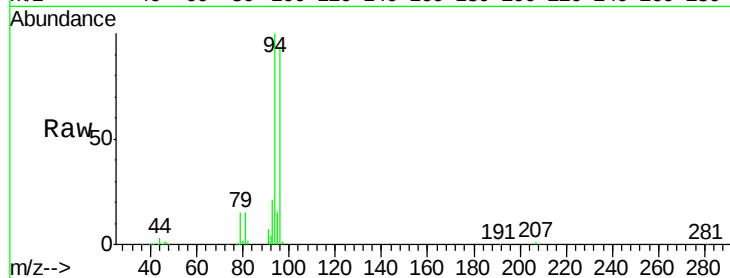
VSTDCCC050

Tgt Ion: 94 Resp: 134580

Ion Ratio Lower Upper

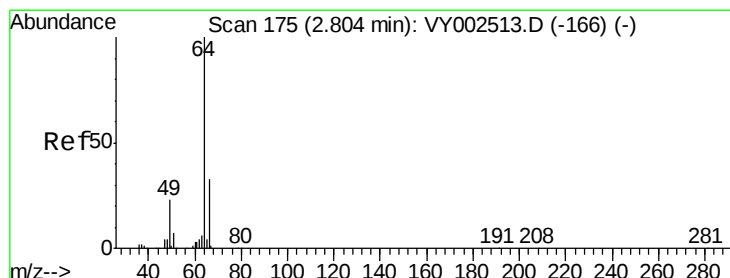
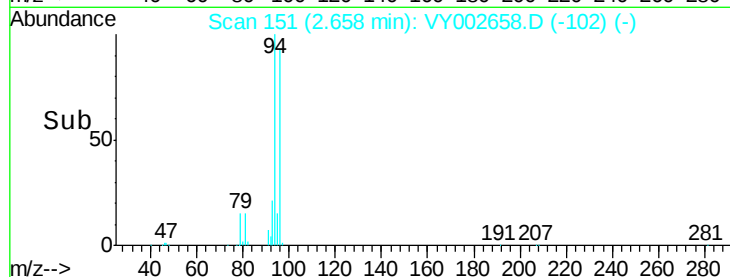
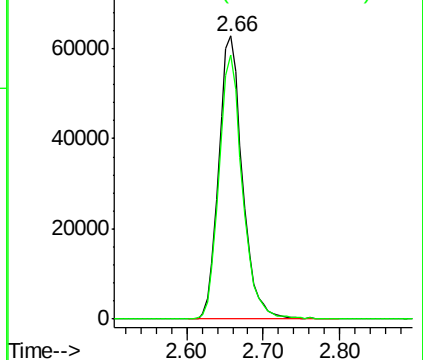
94 100

96 93.2 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 50.41 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY002658.D

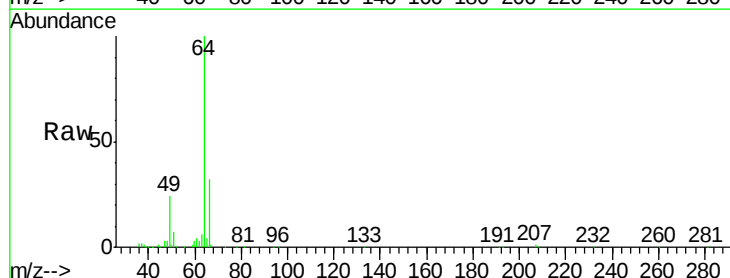
Acq: 12 May 2020 10:53

Tgt Ion: 64 Resp: 117623

Ion Ratio Lower Upper

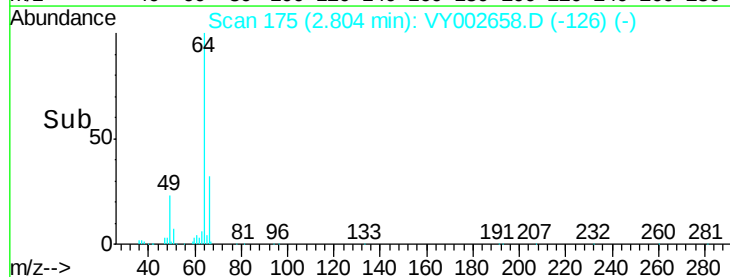
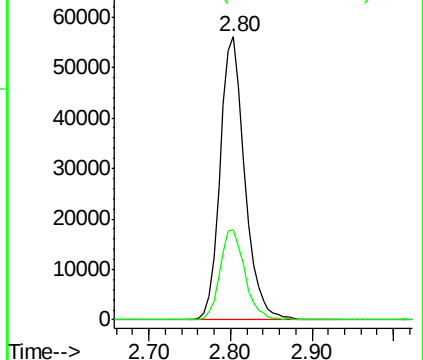
64 100

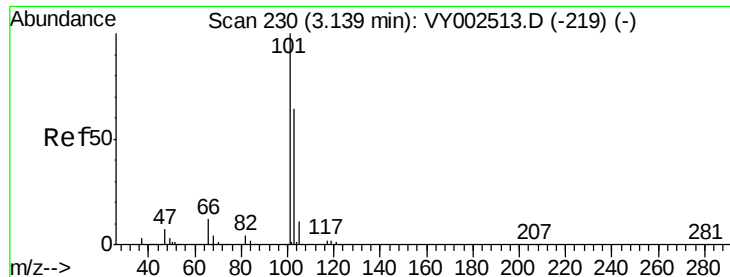
66 31.7 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

Trichlorofluoromethane

Concen: 51.45 ug/l

RT: 3.13 min Scan# 229

Delta R.T. -0.01 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

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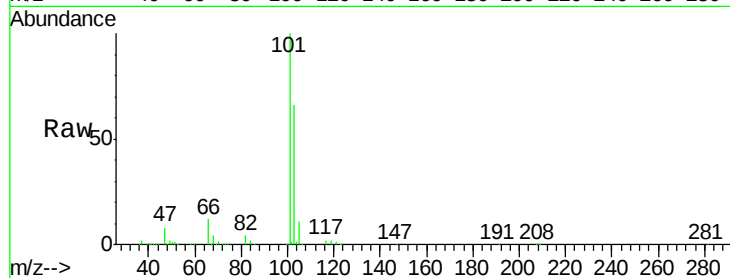
VSTDCCC050

Tgt Ion:101 Resp: 311595

Ion Ratio Lower Upper

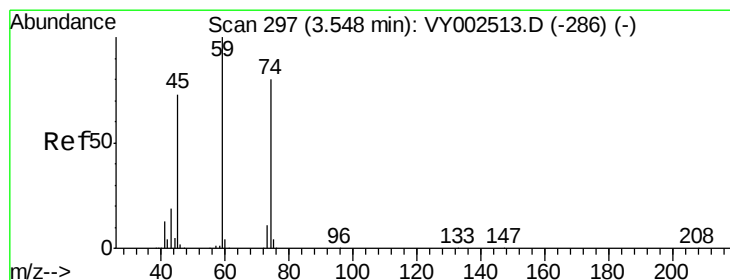
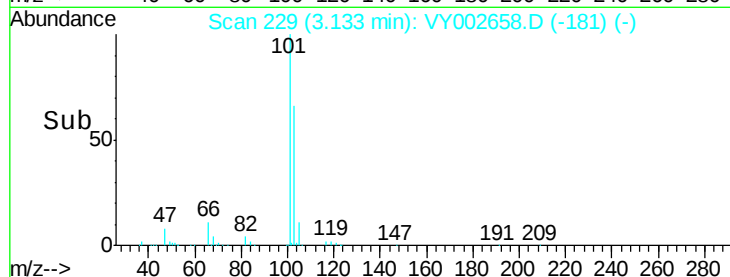
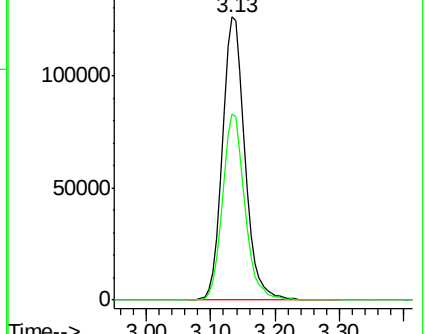
101 100

103 65.6 51.4 77.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 48.21 ug/l

RT: 3.54 min Scan# 295

Delta R.T. -0.01 min

Lab File: VY002658.D

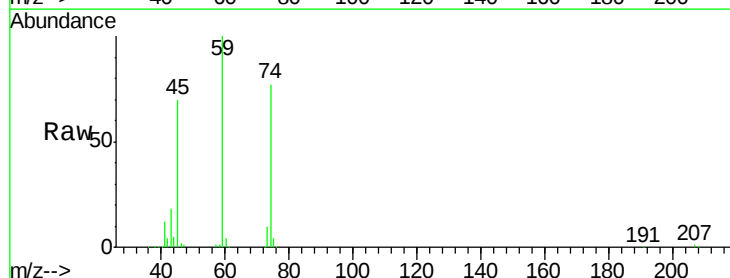
Acq: 12 May 2020 10:53

Tgt Ion: 74 Resp: 98135

Ion Ratio Lower Upper

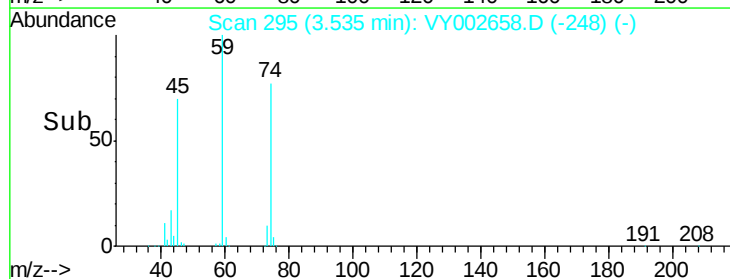
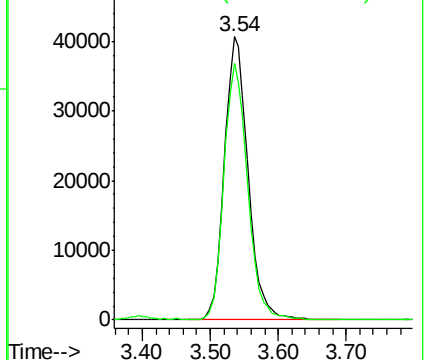
74 100

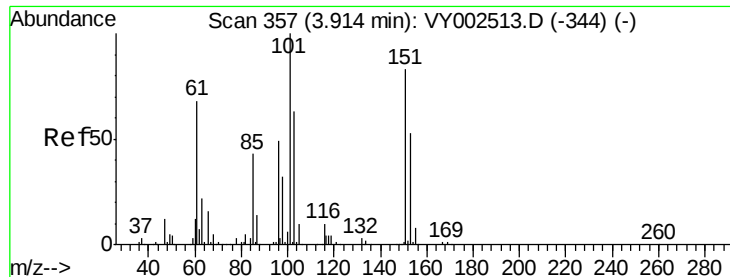
45 89.9 46.2 138.5



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.57 ug/l

RT: 3.91 min Scan# 356

Delta R.T. -0.01 min

Lab File: VY002658.D

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VSTDCCC050

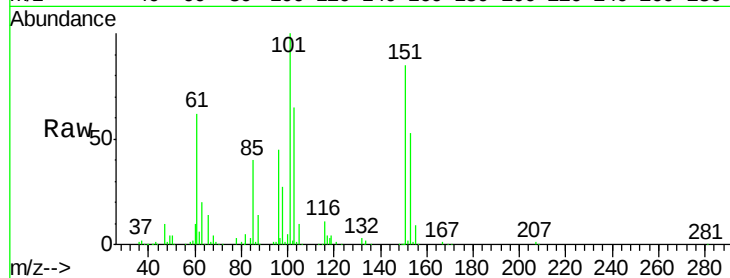
Tgt Ion:101 Resp: 194588

Ion Ratio Lower Upper

101 100

85 41.5 33.4 50.2

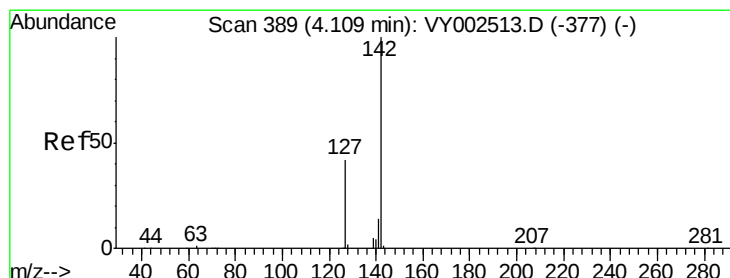
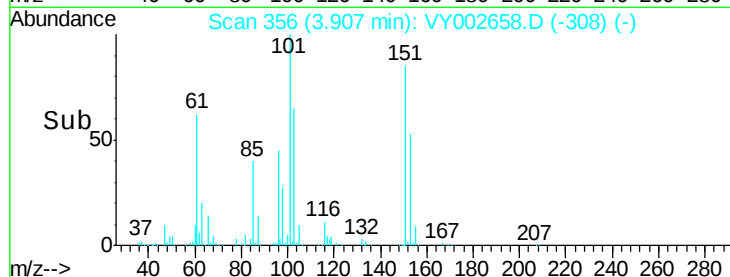
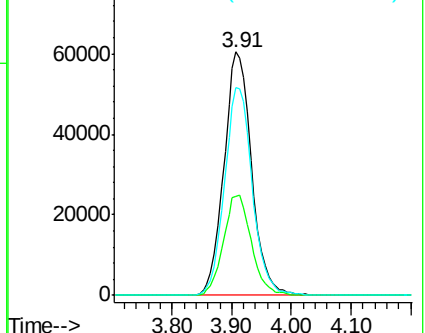
151 86.0 66.8 100.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 54.60 ug/l

RT: 4.10 min Scan# 388

Delta R.T. -0.01 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

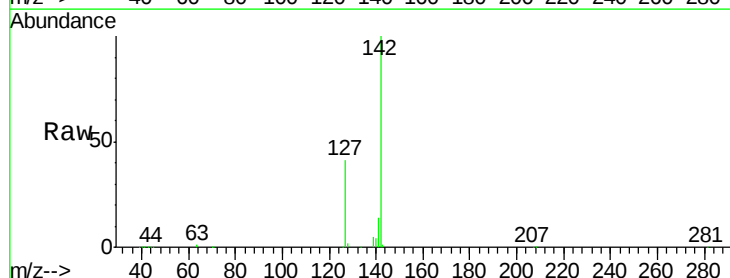
Tgt Ion:142 Resp: 275371

Ion Ratio Lower Upper

142 100

127 41.0 33.7 50.5

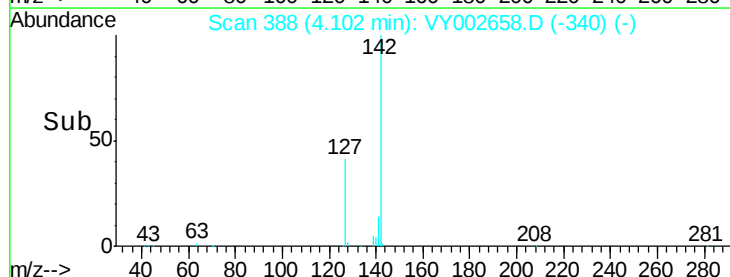
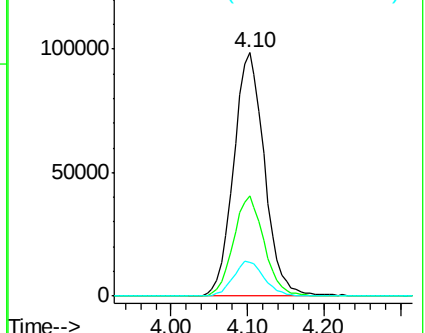
141 14.4 11.4 17.0

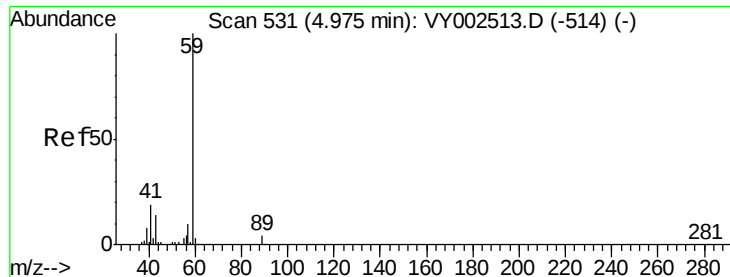


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

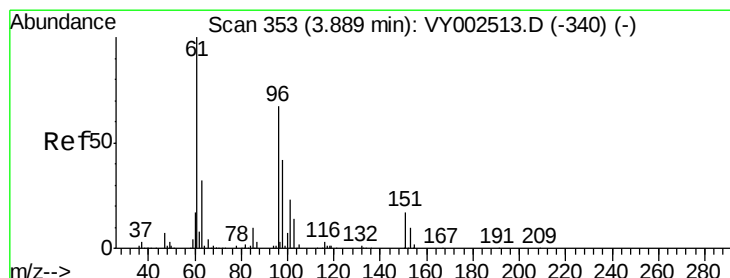
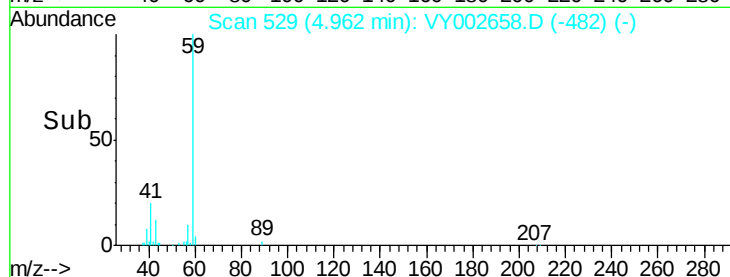
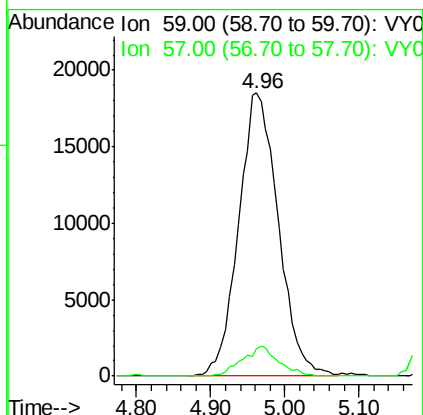
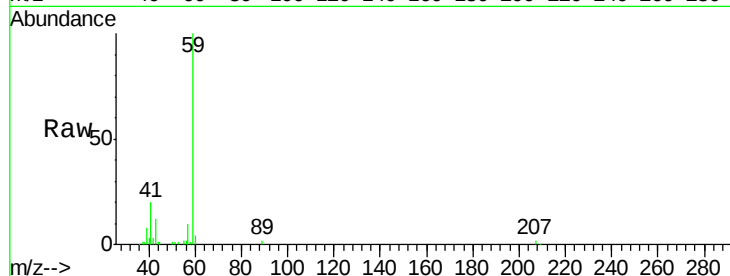




#11
Tert butyl alcohol
Concen: 191.39 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.01 min
Lab File: VY002658.D
Acq: 12 May 2020 10:53

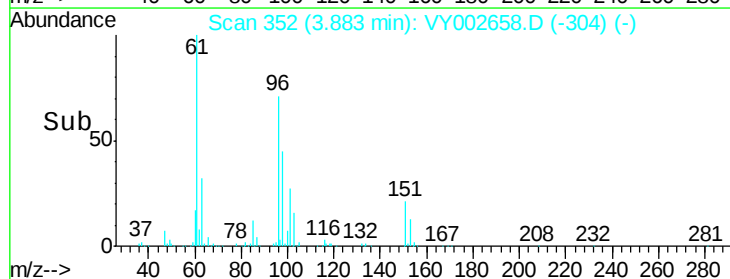
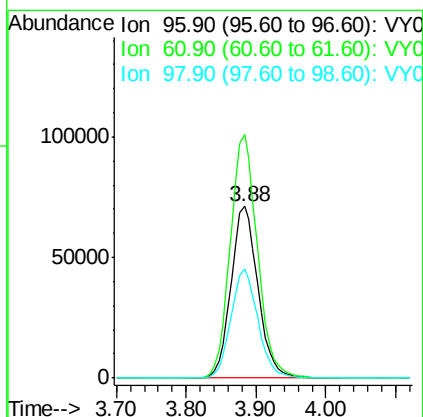
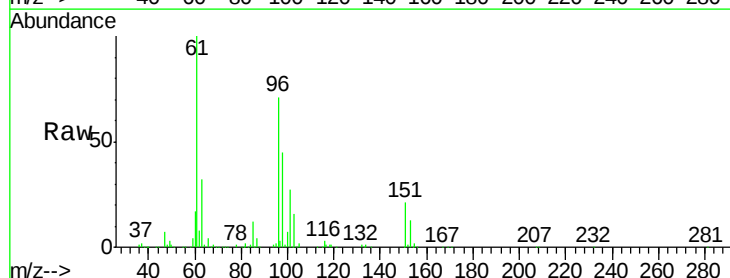
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

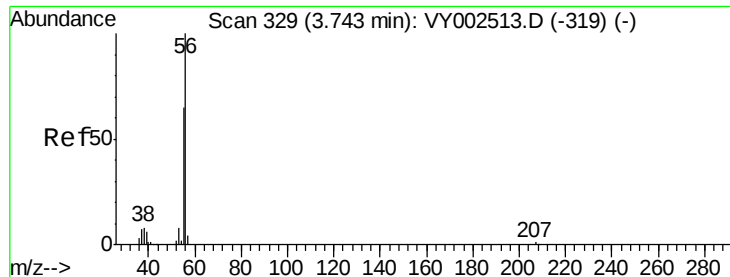
Tgt Ion: 59 Resp: 69164
Ion Ratio Lower Upper
59 100
57 9.7 7.8 11.6



#12
1,1-Dichloroethene
Concen: 53.04 ug/l
RT: 3.88 min Scan# 352
Delta R.T. -0.01 min
Lab File: VY002658.D
Acq: 12 May 2020 10:53

Tgt Ion: 96 Resp: 190726
Ion Ratio Lower Upper
96 100
61 141.7 118.8 178.2
98 63.5 49.6 74.4





#13

Acrolein

Concen: 238.67 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.01 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

Instrument :

MSVOA_Y

ClientSampleId :

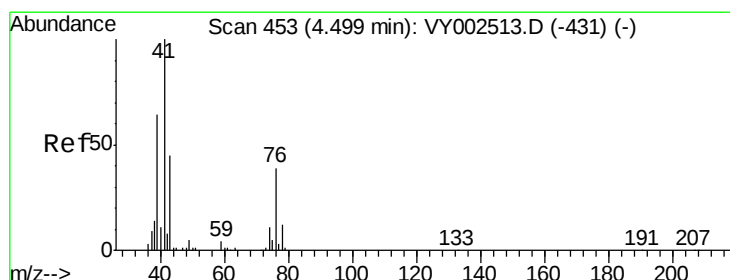
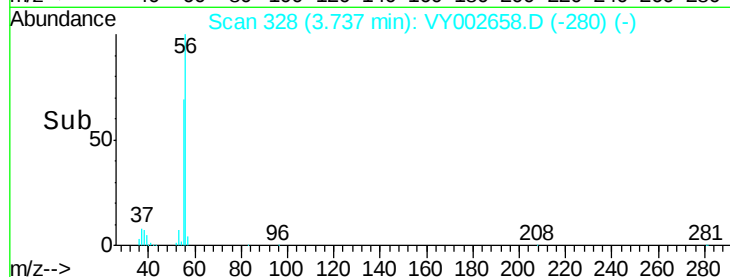
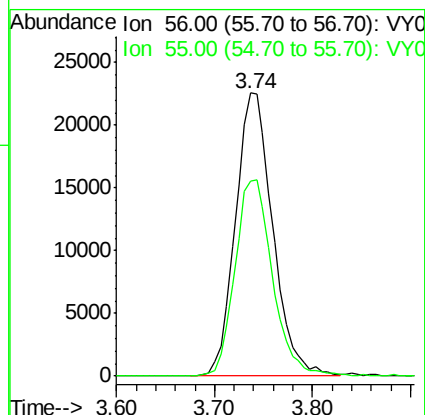
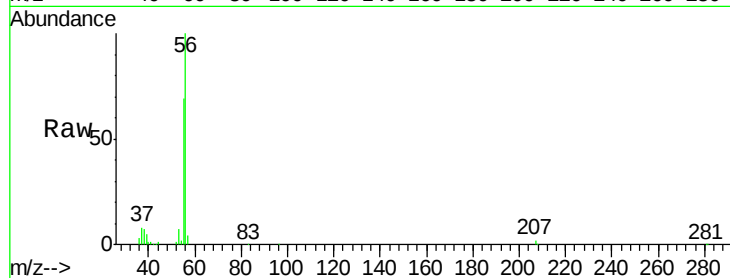
VSTDCCC050

Tgt Ion: 56 Resp: 59640

Ion Ratio Lower Upper

56 100

55 69.8 53.8 80.6



#14

Allyl chloride

Concen: 52.69 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.01 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

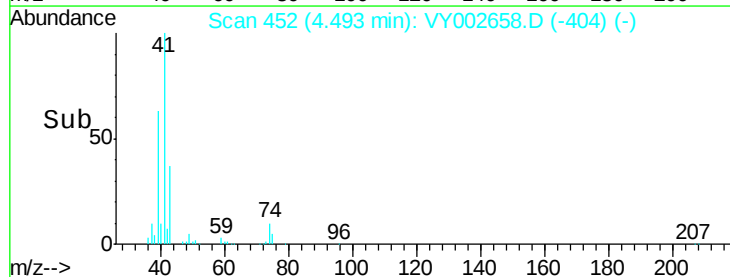
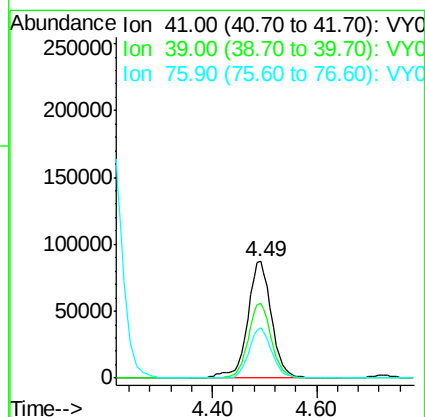
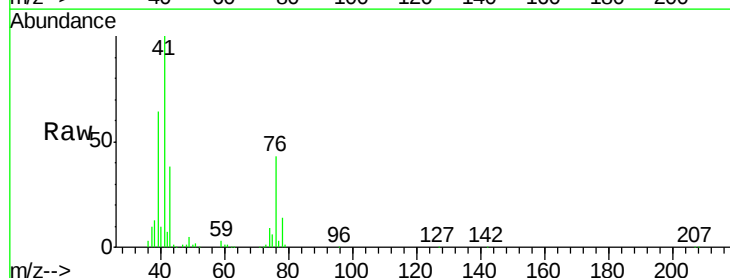
Tgt Ion: 41 Resp: 276096

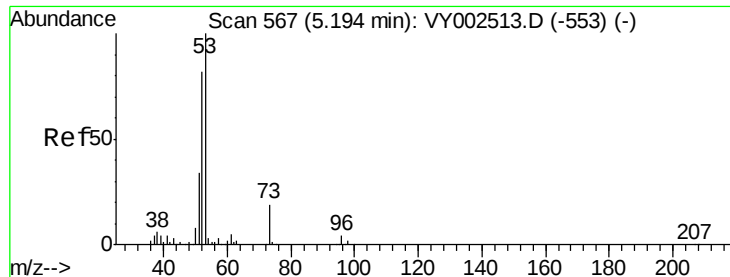
Ion Ratio Lower Upper

41 100

39 62.0 51.8 77.6

76 40.7 31.7 47.5





#15

Acrylonitrile

Concen: 221.92 ug/l

RT: 5.18 min Scan# 564

Delta R.T. -0.02 min

Lab File: VY002658.D

Acq: 12 May 2020 10:53

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

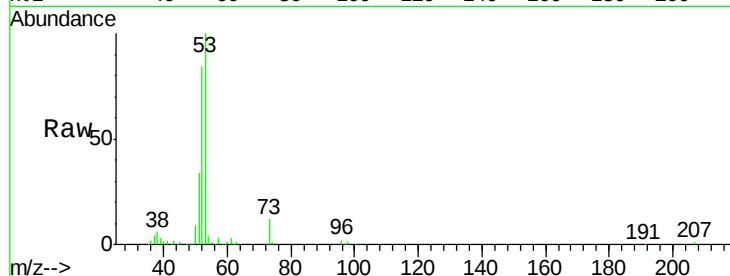
Tgt Ion: 53 Resp: 213015

Ion Ratio Lower Upper

53 100

52 82.2 65.4 98.0

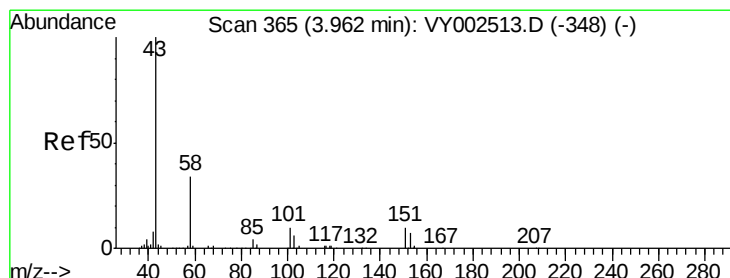
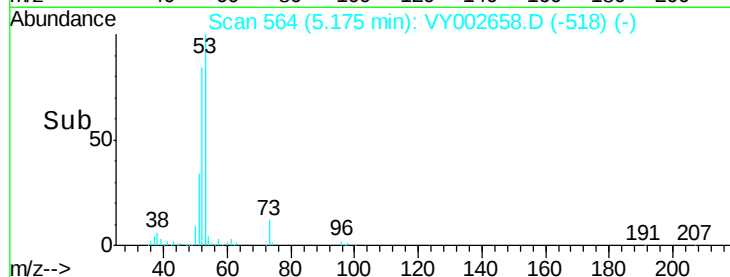
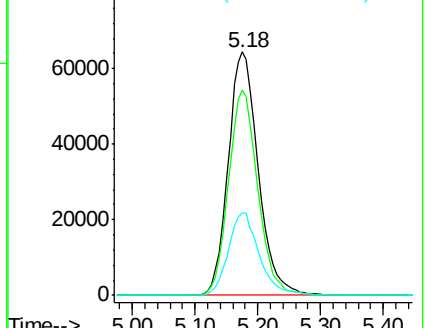
51 34.8 28.7 43.1



Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 209.02 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VY002658.D

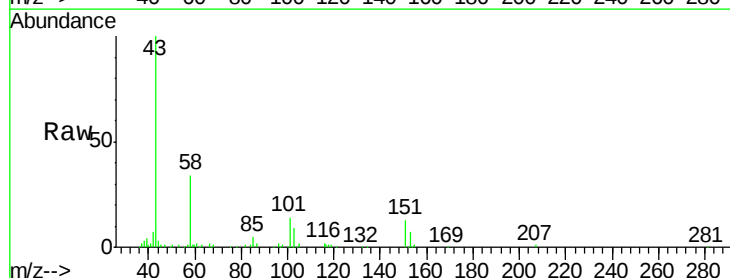
Acq: 12 May 2020 10:53

Tgt Ion: 43 Resp: 151515

Ion Ratio Lower Upper

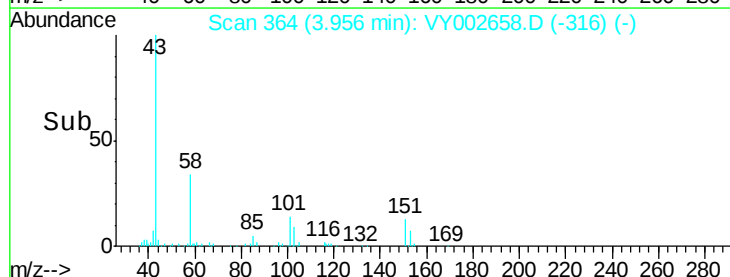
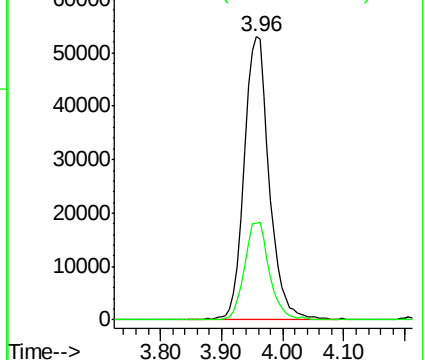
43 100

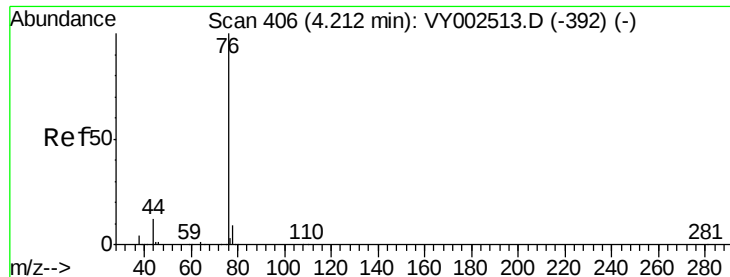
58 34.2 26.9 40.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

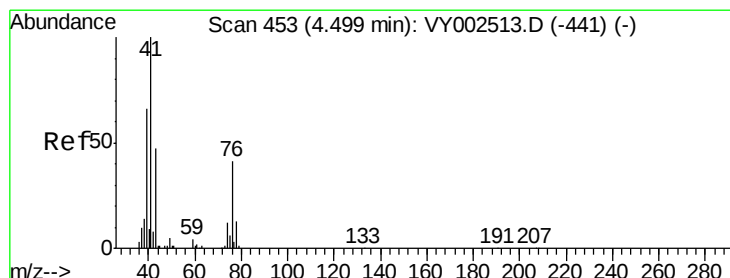
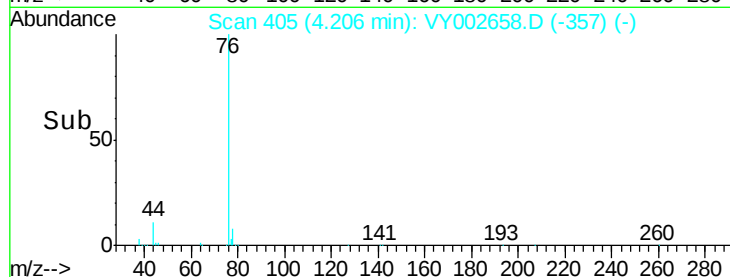
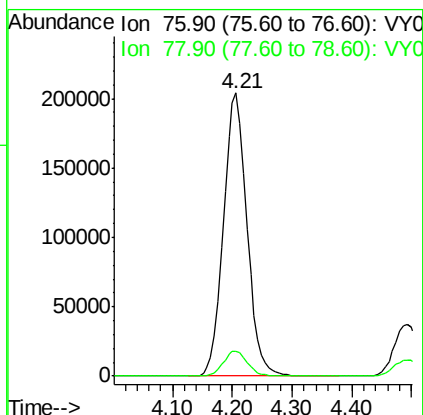
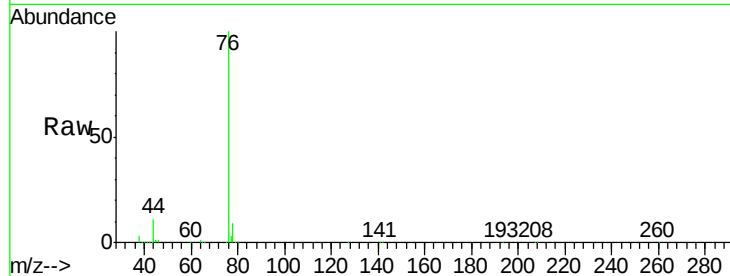




#17
Carbon Disulfide
Concen: 51.71 ug/l
RT: 4.21 min Scan# 405
Delta R.T. -0.01 min
Lab File: VY002658.D
Acq: 12 May 2020 10:53

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 559441
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.2



#18
Methyl Acetate
Concen: 43.43 ug/l
RT: 4.49 min Scan# 451
Delta R.T. -0.01 min
Lab File: VY002658.D
Acq: 12 May 2020 10:53

Tgt Ion: 43 Resp: 105198
Ion Ratio Lower Upper
43 100
74 26.1 21.2 31.8

