

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY122920\
 Data File : VY003846.D
 Acq On : 29 Dec 2020 11:01
 Operator : SY/MD
 Sample : VSTD00532
 Misc : 5.00G/10ML/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTD00532

Quant Time: Dec 29 12:47:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL122920SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 29 12:43:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	335541	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	313686	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	178476	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	31829	8.10	ug/L	0.00
7) Chloroethane-d5	2.76	69	24794	7.93	ug/L	0.00
11) 1,1-Dichloroethene-d2	3.85	63	53529	6.83	ug/L	0.00
21) 2-Butanone-d5	6.89	46	22832	12.96	ug/L	0.00
24) Chloroform-d	7.48	84	50673	6.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.14	65	32294	7.23	ug/L	0.00
32) Benzene-d6	8.11	84	95223	5.95	ug/L	0.00
36) 1,2-Dichloropropane-d6	9.12	67	28305	5.87	ug/L	0.00
41) Toluene-d8	10.18	98	88759	6.10	ug/L	0.00
43) trans-1,3-Dichloropropene-	10.43	79	15671	6.54	ug/L	0.00
47) 2-Hexanone-d5	10.79	63	16408	12.07	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	12.56	84	26937	6.02	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	13.72	152	34561	5.80	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.91	85	32231	8.511 ug/L	98
3) Chloromethane	2.11	50	32084	7.328 ug/L	99
5) Vinyl chloride	2.25	62	34429	7.617 ug/L	94
6) Bromomethane	2.65	94	20290	7.065 ug/L	100
8) Chloroethane	2.80	64	20327	7.211 ug/L	97
9) Trichlorofluoromethane	3.13	101	46849	6.893 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	3.90	101	23966	5.655 ug/L	99
12) 1,1-Dichloroethene	3.88	96	21628	5.360 ug/L	98
13) Acetone	3.95	43	16427	13.327 ug/L	87
14) Carbon disulfide	4.19	76	72139	5.457 ug/L	98
15) Methyl Acetate	4.49	43	19372	6.331 ug/L	100
16) Methylene chloride	4.72	84	15837	2.694 ug/L	95
17) trans-1,2-Dichloroethene	5.22	96	23823	5.300 ug/L	93
18) Methyl tert-butyl Ether	5.22	73	70231	6.000 ug/L	99
19) 1,1-Dichloroethane	6.02	63	42813	5.643 ug/L	96
20) cis-1,2-Dichloroethene	6.99	96	25511	5.302 ug/L	91
22) 2-Butanone	6.99	43	24871	11.767 ug/L	97
23) Bromochloromethane	7.34	128	12994	5.434 ug/L	97
25) Chloroform	7.51	83	46026	5.932 ug/L	97
27) 1,2-Dichloroethane	8.24	62	36735	6.764 ug/L	99
29) Cyclohexane	7.78	56	39912	5.752 ug/L	99
30) 1,1,1-Trichloroethane	7.70	97	42806	6.195 ug/L	98
31) Carbon tetrachloride	7.90	117	39206	6.261 ug/L	98
33) Benzene	8.16	78	97413	5.427 ug/L	100
34) Trichloroethene	8.93	95	27210	5.618 ug/L	95
35) Methylcyclohexane	9.18	83	41091	5.325 ug/L	96
37) 1,2-Dichloropropane	9.22	63	24644	5.497 ug/L	# 95
38) Bromodichloromethane	9.50	83	35222	5.990 ug/L	100
39) cis-1,3-Dichloropropene	9.93	75	40619	5.635 ug/L	98
40) 4-Methyl-2-pentanone	10.07	43	51030	12.091 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

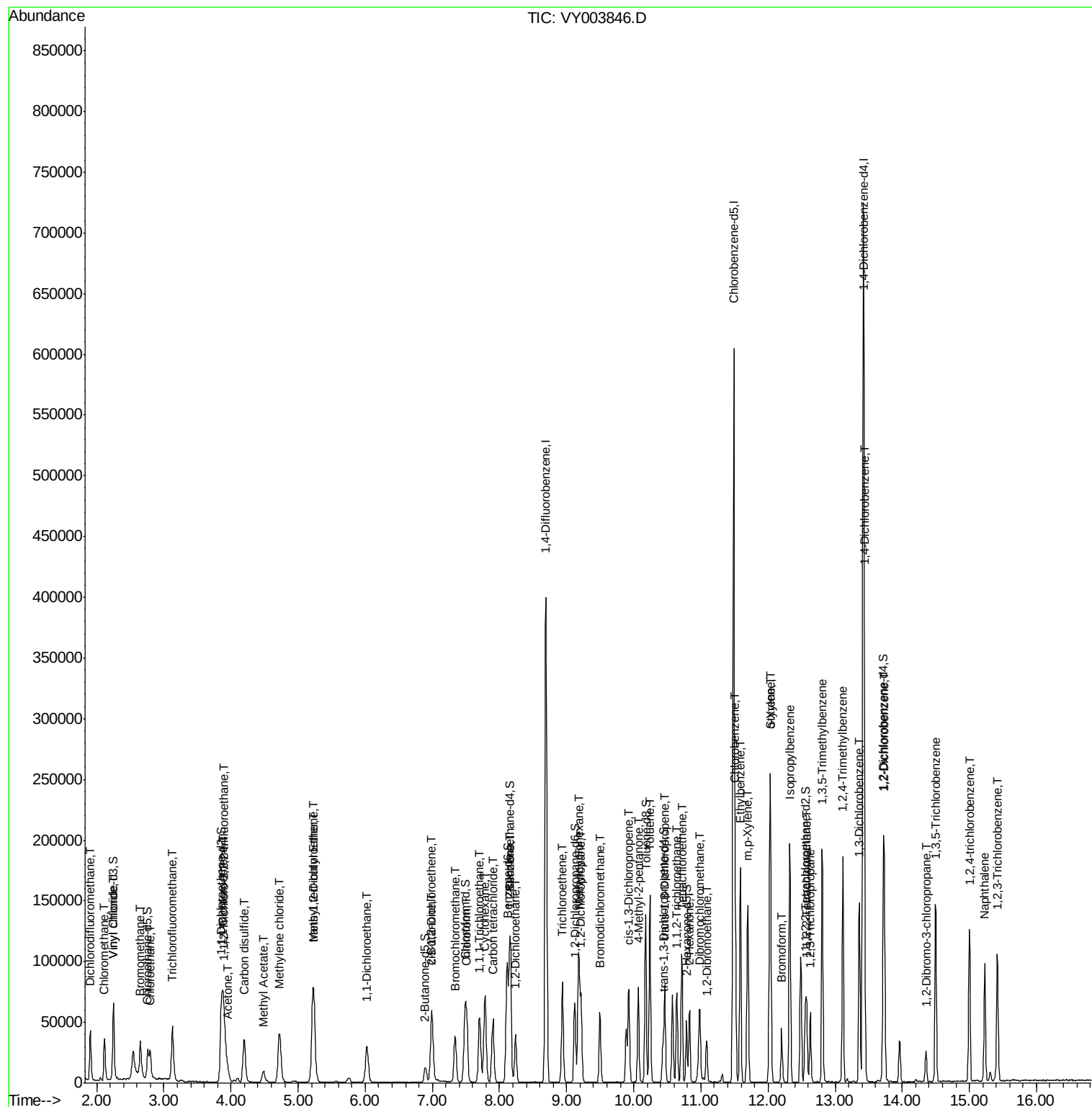
42) Toluene	10.24	91	105447	5.479	ug/L	100
44) trans-1,3-Dichloropropene	10.46	75	40041	5.921	ug/L	99
45) 1,1,2-Trichloroethane	10.64	97	21182	5.421	ug/L	95
46) Tetrachloroethene	10.72	164	22566	5.692	ug/L	97
48) 2-Hexanone	10.83	43	37652	12.740	ug/L	100
49) Dibromochloromethane	10.98	129	26175	5.704	ug/L	98
50) 1,2-Dibromoethane	11.09	107	20437	5.404	ug/L #	98
51) Chlorobenzene	11.51	112	69045	5.445	ug/L	99
52) Ethylbenzene	11.59	91	117888	5.646	ug/L	100
53) m,p-Xylene	11.70	106	45069	5.577	ug/L	98
54) o-Xylene	12.03	106	42873	5.529	ug/L	95
55) Styrene	12.04	104	73621	5.537	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.58	83	25552	5.955	ug/L	96
59) Bromoform	12.20	173	19428	5.691	ug/L	97
60) Isopropylbenzene	12.32	105	116423	5.310	ug/L	100
61) 1,2,3-Trichloropropane	12.63	75	22503	5.595	ug/L	97
62) 1,3,5-Trimethylbenzene	12.81	105	95140	5.442	ug/L	98
63) 1,2,4-Trimethylbenzene	13.12	105	98123	5.623	ug/L	99
64) 1,3-Dichlorobenzene	13.36	146	58194	5.503	ug/L	94
65) 1,4-Dichlorobenzene	13.44	146	57508	5.351	ug/L	98
67) 1,2-Dichlorobenzene	13.73	146	54937	5.578	ug/L	96
68) 1,2-Dibromo-3-chloropropan	14.35	75	5703	6.258	ug/L	97
69) 1,3,5-Trichlorobenzene	14.50	180	45399	5.944	ug/L	99
70) 1,2,4-trichlorobenzene	15.00	180	38272	5.870	ug/L	99
71) Naphthalene	15.23	128	76522	5.583	ug/L	99
72) 1,2,3-Trichlorobenzene	15.42	180	33945	5.708	ug/L	97

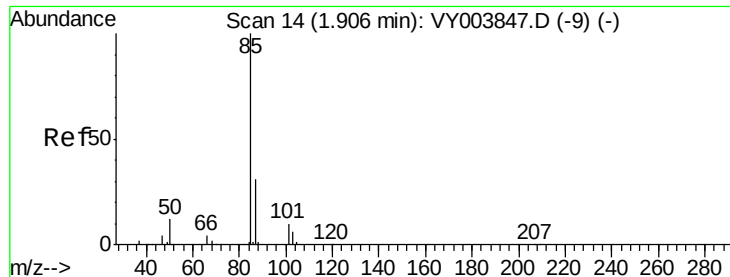
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 8.511 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.00 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

Instrument :

MSVOA_Y

ClientSampleId :

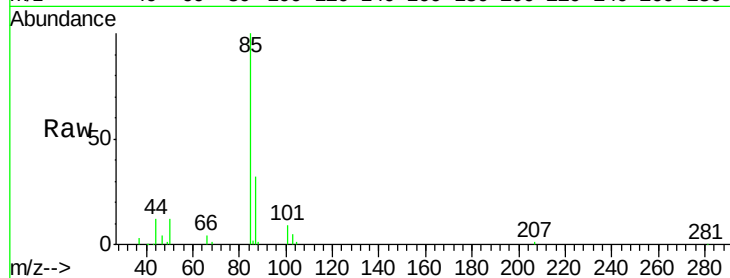
VSTD00532

Tgt Ion: 85 Resp: 32231

Ion Ratio Lower Upper

85 100

87 30.9 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

1.91

25000

20000

15000

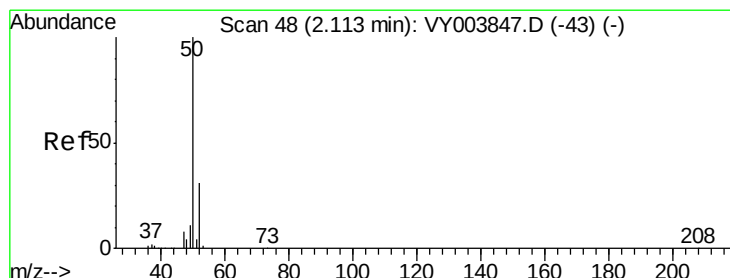
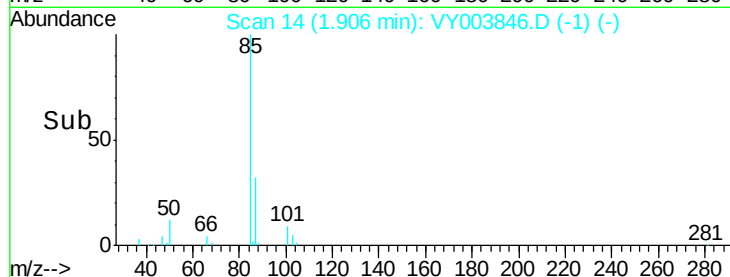
10000

5000

0

1.85 1.90 1.95

Time-->



#3

Chloromethane

Concen: 7.328 ug/L

RT: 2.11 min Scan# 48

Delta R.T. -0.00 min

Lab File: VY003846.D

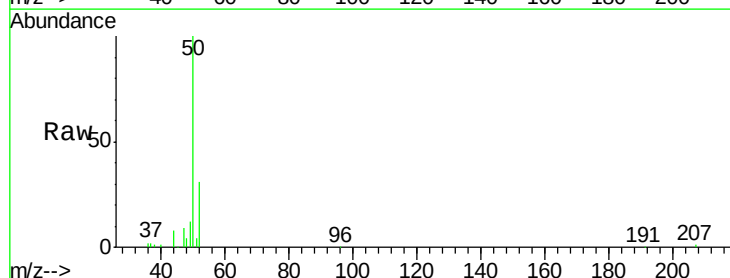
Acq: 29 Dec 2020 11:01

Tgt Ion: 50 Resp: 32084

Ion Ratio Lower Upper

50 100

52 30.9 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

2.11

25000

20000

15000

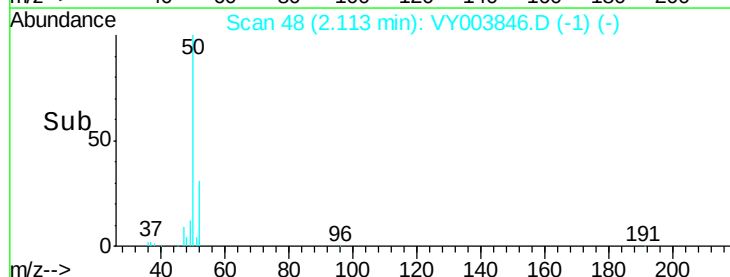
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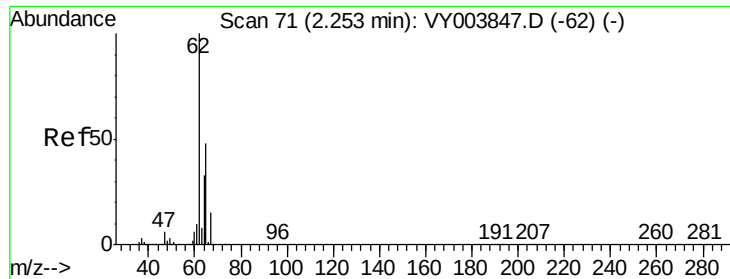
5000

0

2.05 2.10 2.15 2.20

Time-->





#5

Vinyl chloride

Concen: 7.617 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.00 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

Instrument :

MSVOA_Y

ClientSampleId :

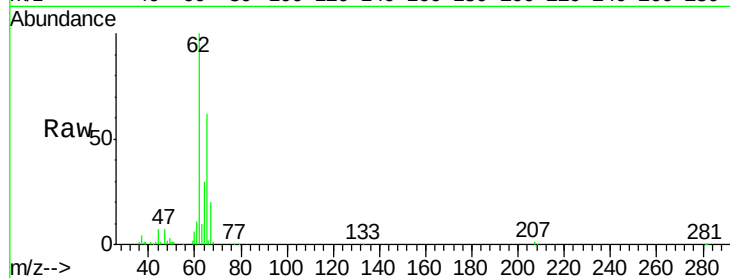
VSTD00532

Tgt Ion: 62 Resp: 34429

Ion Ratio Lower Upper

62 100

64 29.9 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0

25000

20000

15000

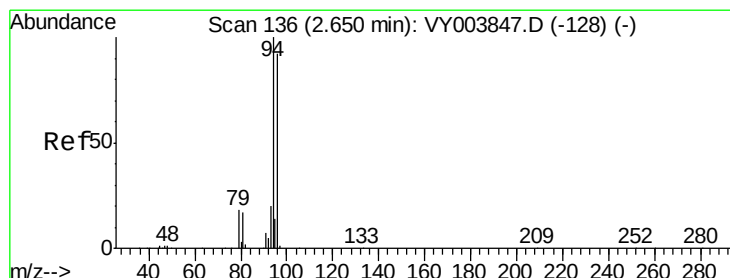
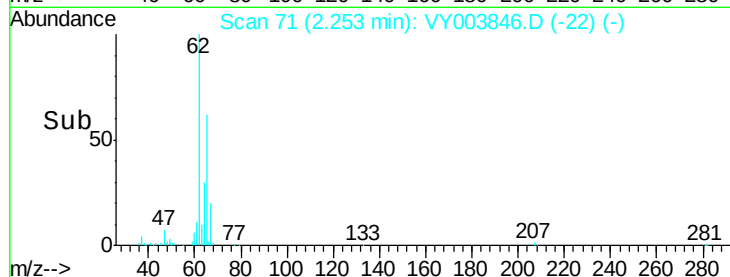
10000

5000

0

2.20 2.25 2.30

Time-->



#6

Bromomethane

Concen: 7.065 ug/L

RT: 2.65 min Scan# 136

Delta R.T. -0.00 min

Lab File: VY003846.D

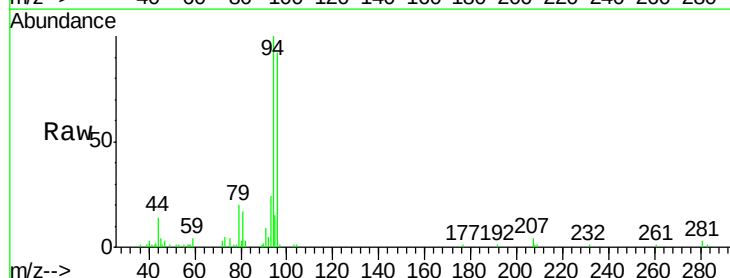
Acq: 29 Dec 2020 11:01

Tgt Ion: 94 Resp: 20290

Ion Ratio Lower Upper

94 100

96 91.8 64.3 119.3



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0

10000

8000

6000

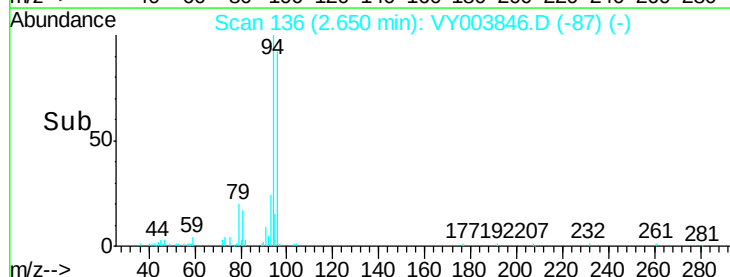
4000

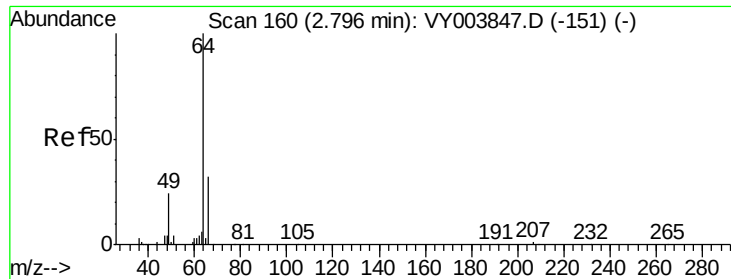
2000

0

2.60 2.65 2.70

Time-->





#8

Chloroethane

Concen: 7.211 ug/L

RT: 2.80 min Scan# 160

Delta R.T. -0.00 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

Instrument :

MSVOA_Y

ClientSampleId :

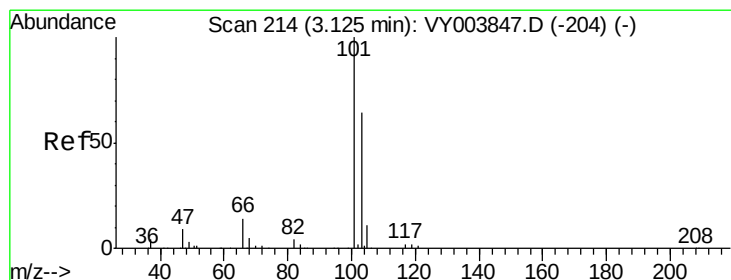
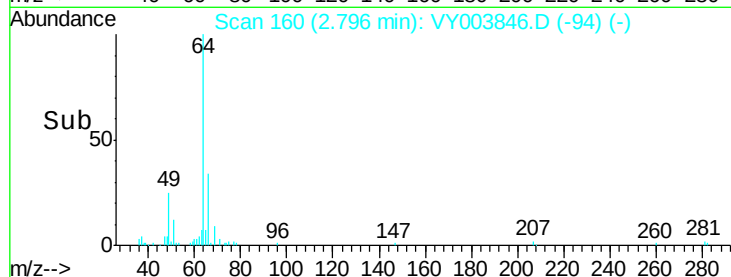
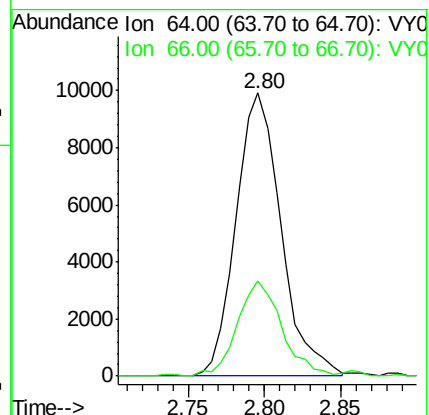
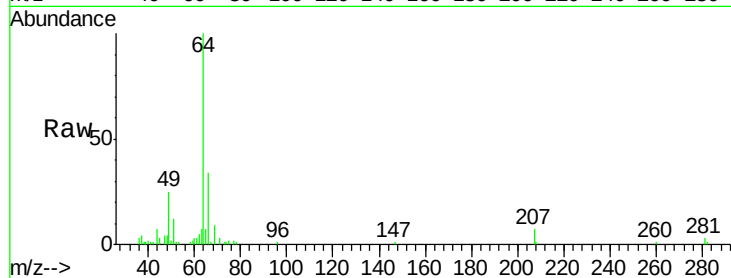
VSTD00532

Tgt Ion: 64 Resp: 20327

Ion Ratio Lower Upper

64 100

66 33.6 22.5 41.7



#9

Trichlorofluoromethane

Concen: 6.893 ug/L

RT: 3.13 min Scan# 215

Delta R.T. 0.01 min

Lab File: VY003846.D

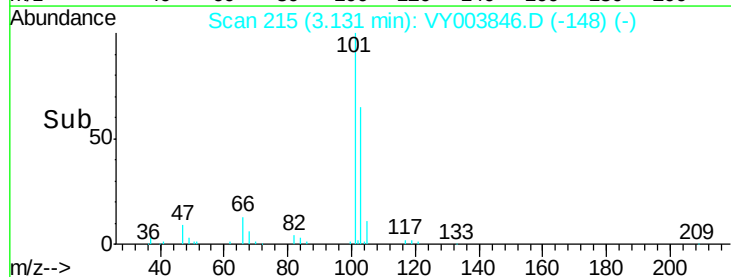
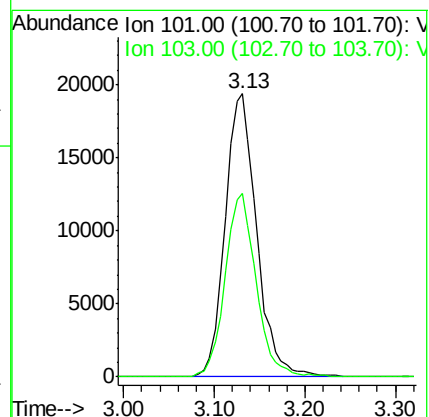
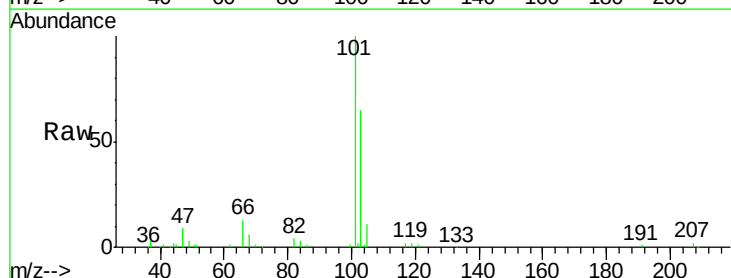
Acq: 29 Dec 2020 11:01

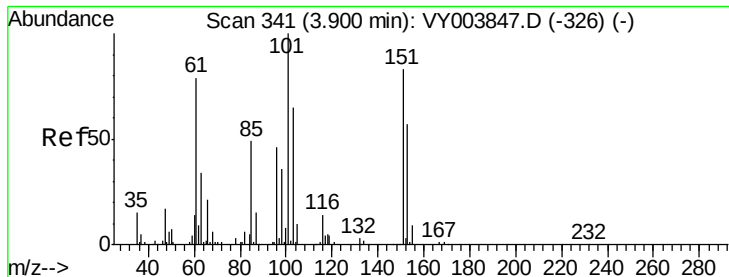
Tgt Ion: 101 Resp: 46849

Ion Ratio Lower Upper

101 100

103 63.5 51.4 77.0





#10

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

Concen: 5.655 ug/L

RT: 3.90 min Scan# 341

Delta R.T. -0.00 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

Instrument :

MSVOA_Y

ClientSampleId :

VSTD00532

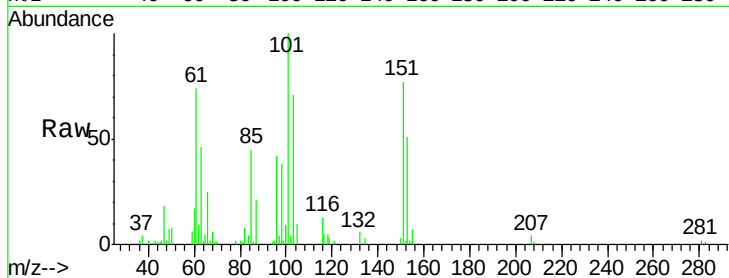
Tgt Ion: 101 Resp: 23966

Ion Ratio Lower Upper

101 100

85 45.7 37.1 55.7

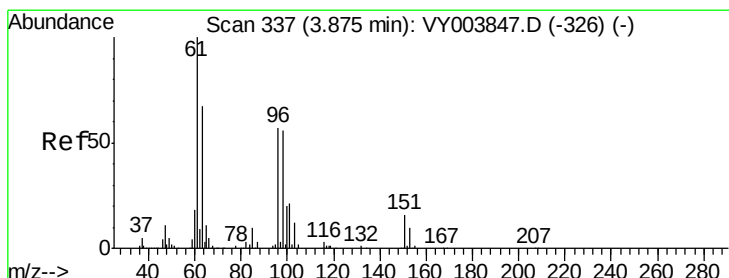
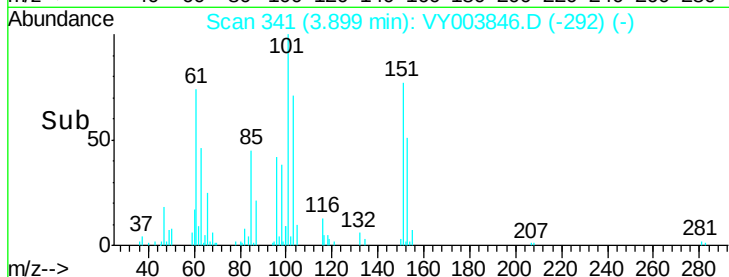
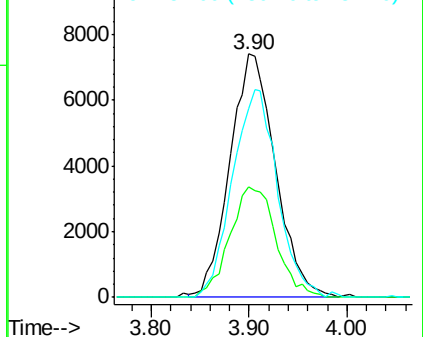
151 83.9 66.4 99.6



Abundance Ion 101.00 (100.70 to 101.70): VY003847.D (-326) (-)

Ion 85.00 (84.70 to 85.70): VY003847.D (-326) (-)

Ion 151.00 (150.70 to 151.70): VY003847.D (-326) (-)



#12

1,1-Dichloroethene

Concen: 5.360 ug/L

RT: 3.88 min Scan# 338

Delta R.T. 0.01 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

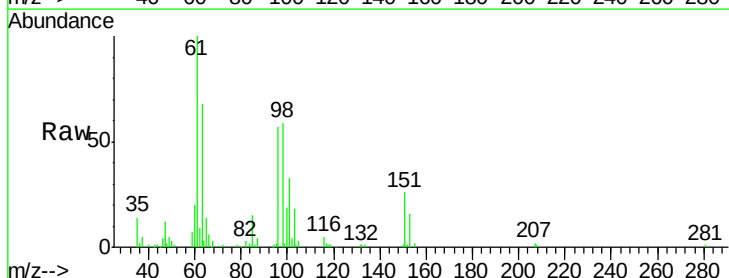
Tgt Ion: 96 Resp: 21628

Ion Ratio Lower Upper

96 100

61 174.3 123.8 230.0

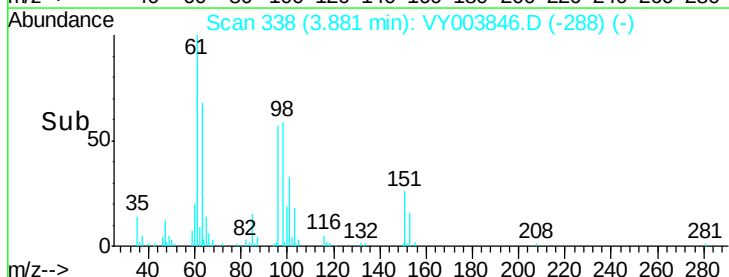
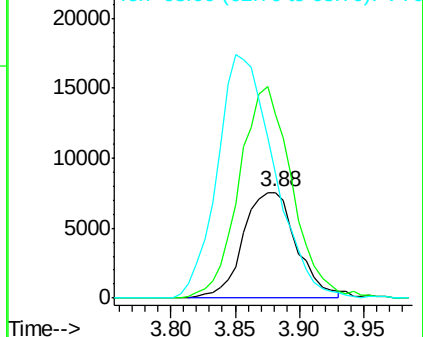
63 118.1 85.3 158.3

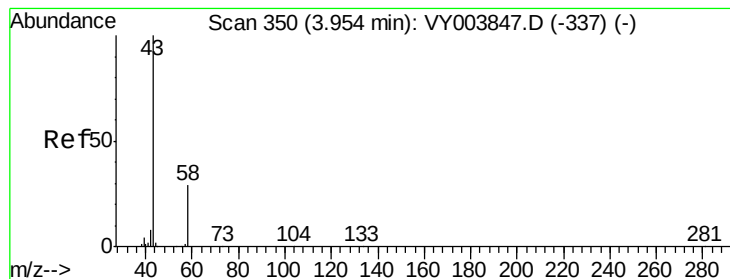


Abundance Ion 96.00 (95.70 to 96.70): VY003847.D (-326) (-)

Ion 61.00 (60.70 to 61.70): VY003847.D (-326) (-)

Ion 63.00 (62.70 to 63.70): VY003847.D (-326) (-)





#13

Acetone

Concen: 13.327 ug/L

RT: 3.95 min Scan# 350

Delta R.T. -0.00 min

Lab File: VY003846.D

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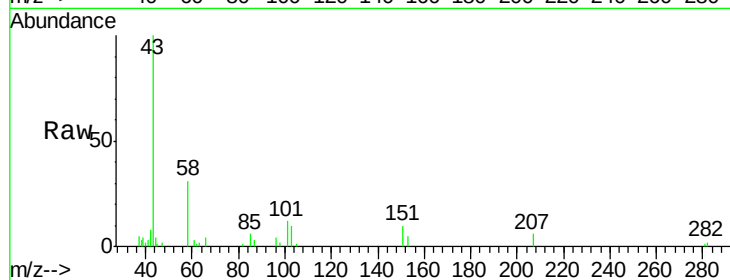
VSTD00532

Tgt Ion: 43 Resp: 16427

Ion Ratio Lower Upper

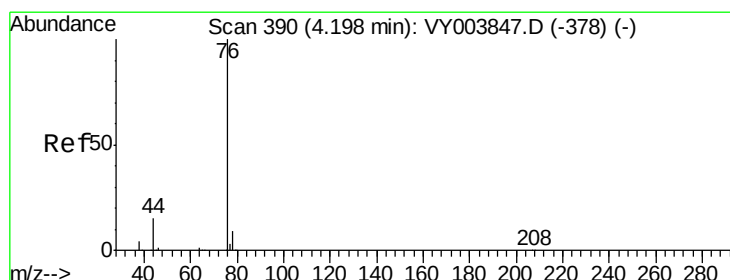
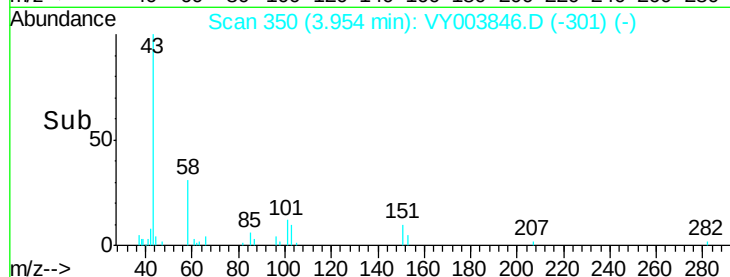
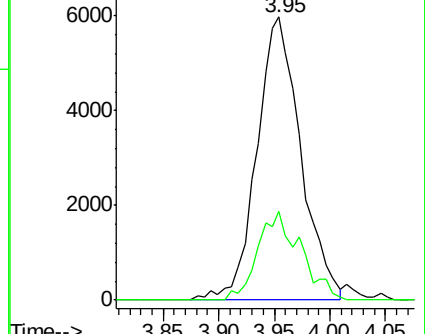
43 100

58 22.3 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 5.457 ug/L

RT: 4.19 min Scan# 389

Delta R.T. -0.01 min

Lab File: VY003846.D

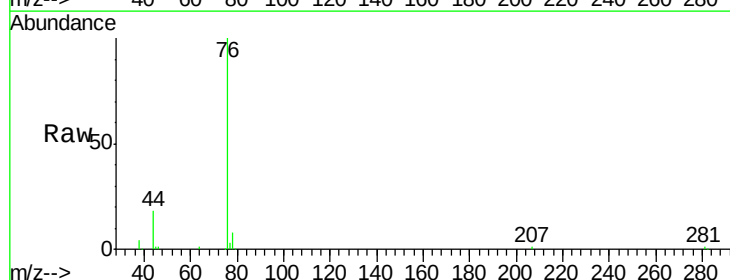
Acq: 29 Dec 2020 11:01

Tgt Ion: 76 Resp: 72139

Ion Ratio Lower Upper

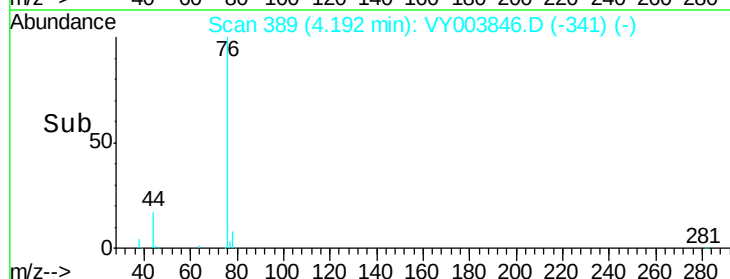
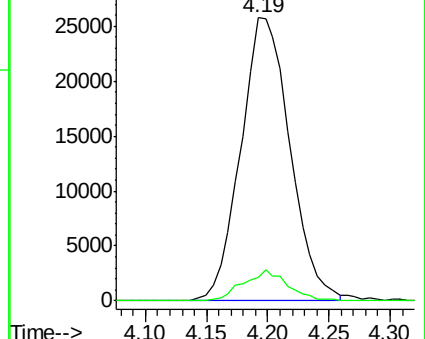
76 100

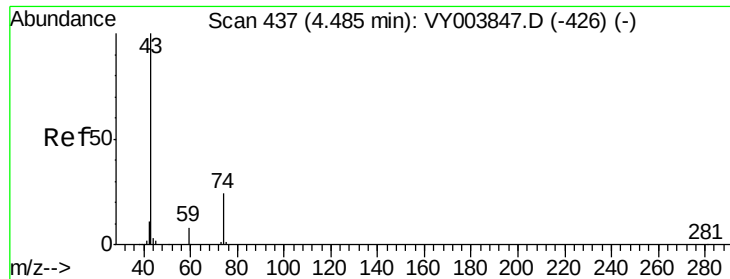
78 8.4 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

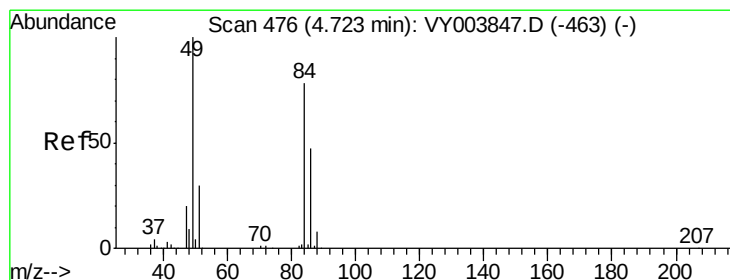
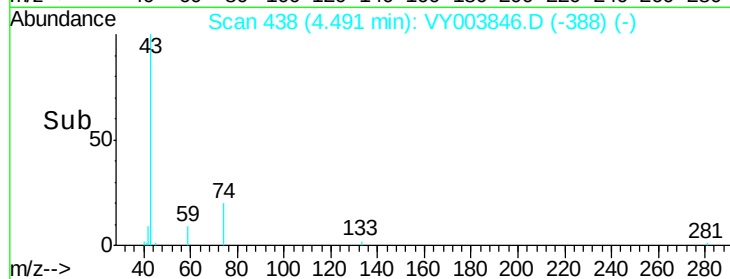
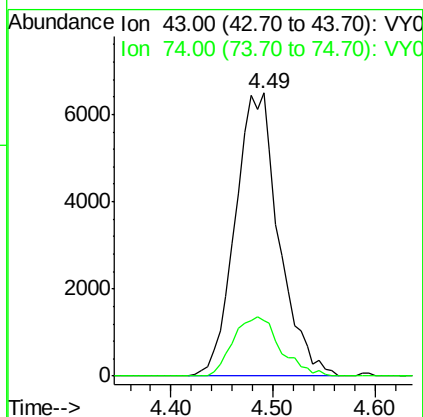
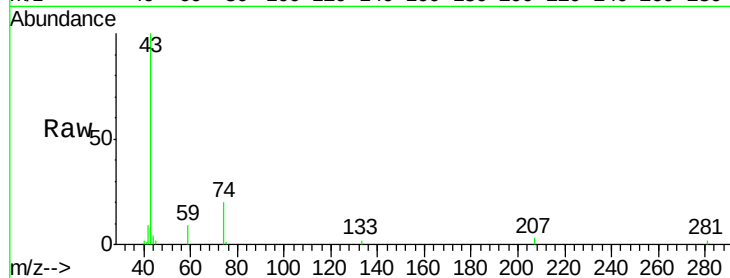




#15
Methyl Acetate
Concen: 6.331 ug/L
RT: 4.49 min Scan# 438
Delta R.T. 0.01 min
Lab File: VY003846.D
Acq: 29 Dec 2020 11:01

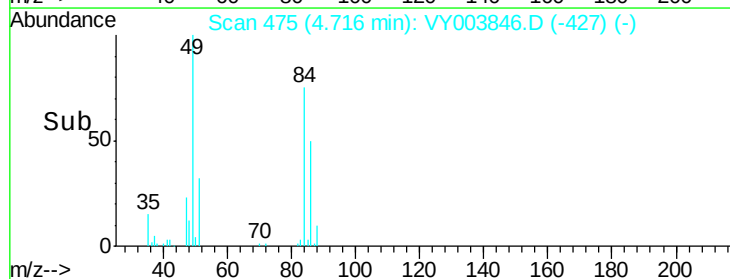
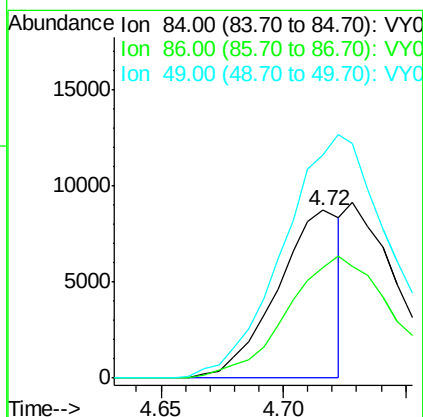
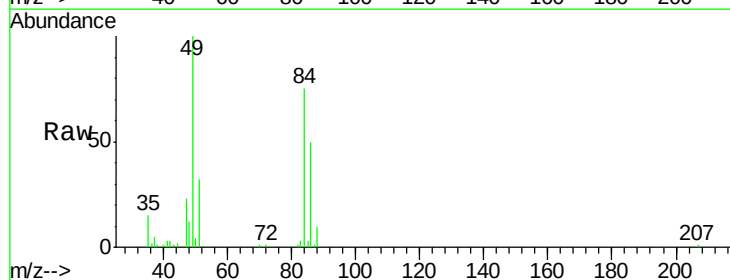
Instrument :
MSVOA_Y
ClientSampleId :
VSTD00532

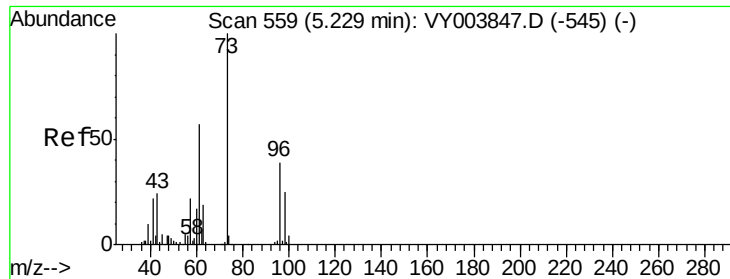
Tgt Ion: 43 Resp: 19372
Ion Ratio Lower Upper
43 100
74 22.0 17.4 26.2



#16
Methylene chloride
Concen: 2.694 ug/L
RT: 4.72 min Scan# 475
Delta R.T. -0.01 min
Lab File: VY003846.D
Acq: 29 Dec 2020 11:01

Tgt Ion: 84 Resp: 15837
Ion Ratio Lower Upper
84 100
86 66.1 42.1 78.3
49 132.5 90.3 167.7





#17

trans-1,2-Dichloroethene

Concen: 5.300 ug/L

RT: 5.22 min Scan# 558

Delta R.T. -0.01 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

Instrument :

MSVOA_Y

ClientSampled :

VSTD00532

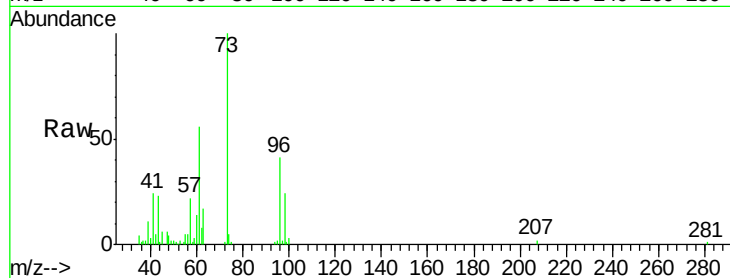
Tgt Ion: 96 Resp: 23823

Ion Ratio Lower Upper

96 100

61 135.6 101.7 188.9

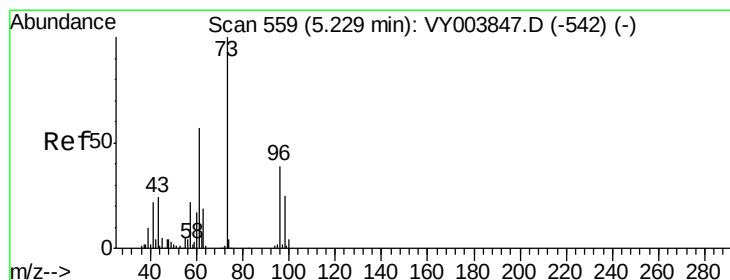
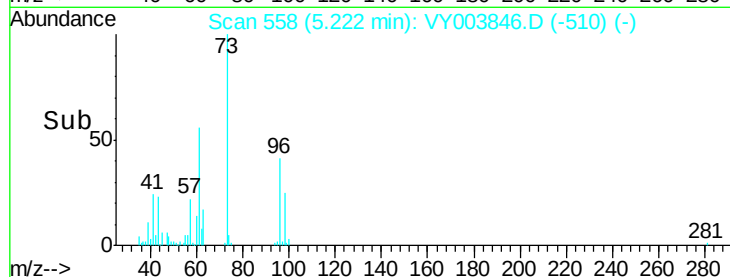
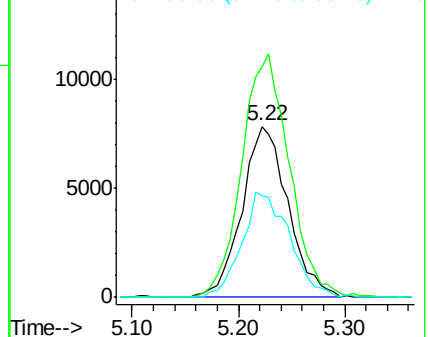
98 59.7 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 98.00 (97.70 to 98.70): VY0



#18

Methyl tert-butyl Ether

Concen: 6.000 ug/L

RT: 5.22 min Scan# 558

Delta R.T. -0.01 min

Lab File: VY003846.D

Acq: 29 Dec 2020 11:01

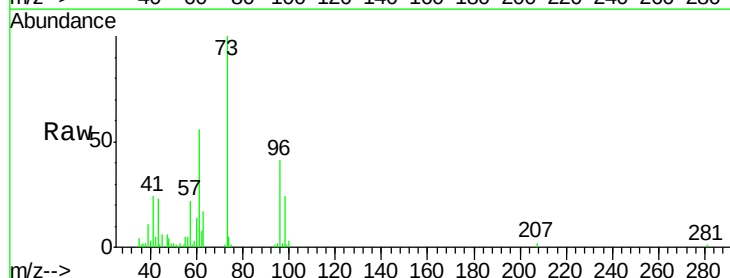
Tgt Ion: 73 Resp: 70231

Ion Ratio Lower Upper

73 100

43 23.4 18.4 27.6

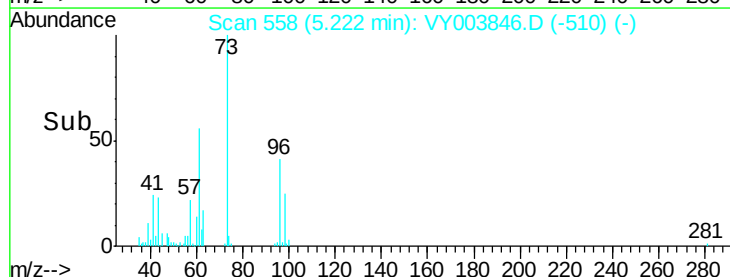
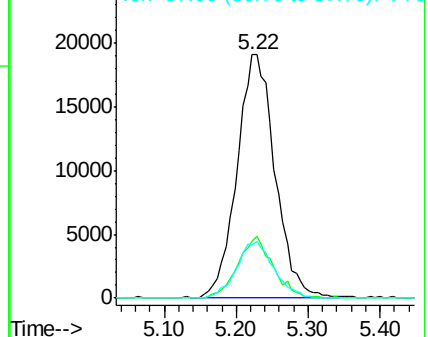
57 22.8 17.6 26.4

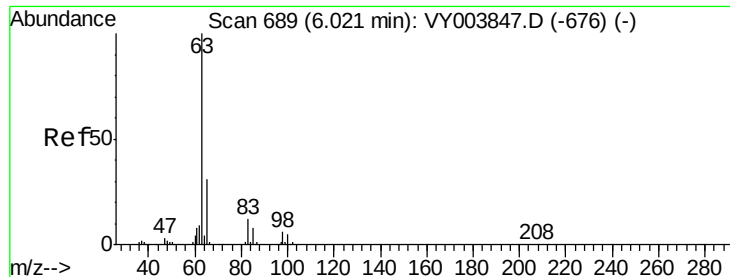


Abundance Ion 73.00 (72.70 to 73.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

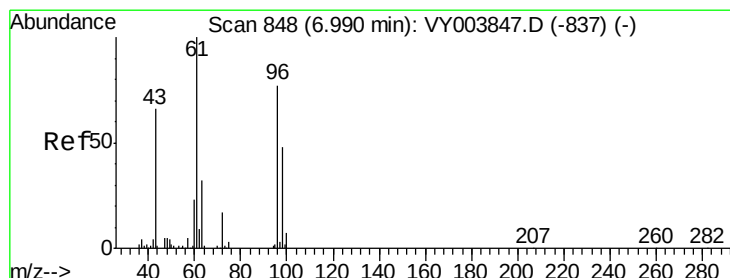
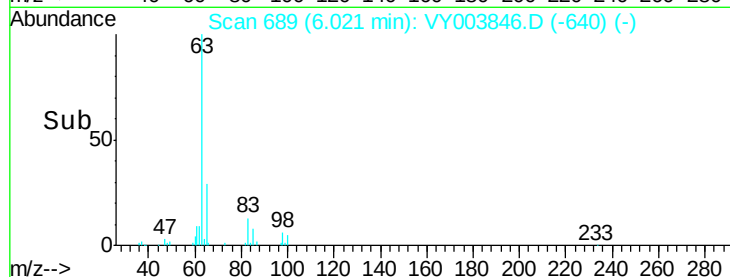
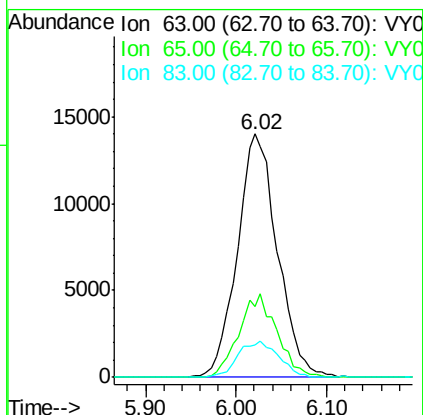
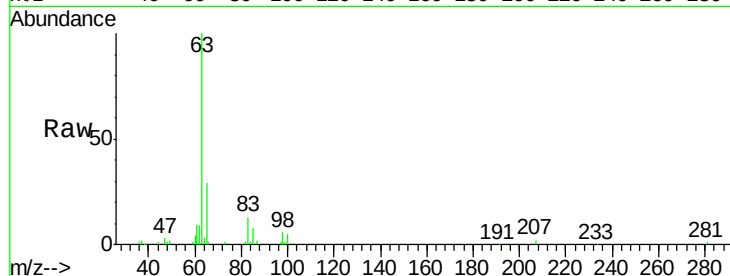




#19
 1,1-Dichloroethane
 Concen: 5.643 ug/L
 RT: 6.02 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VY003846.D
 Acq: 29 Dec 2020 11:01

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTD00532

Tgt Ion: 63 Resp: 42813
 Ion Ratio Lower Upper
 63 100
 65 29.2 21.9 40.7
 83 13.4 8.7 16.1



#20
 cis-1,2-Dichloroethene
 Concen: 5.302 ug/L
 RT: 6.99 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VY003846.D
 Acq: 29 Dec 2020 11:01

Tgt Ion: 96 Resp: 25511
 Ion Ratio Lower Upper
 96 100
 61 118.8 90.6 168.3
 68 0.0 0.0 0.0

