

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY120920\NOT REVIEWED DATA\
 Data File : VY003707.D
 Acq On : 09 Dec 2020 17:42
 Operator : SY/MD
 Sample : L4979-10
 Misc : 7.09G/10ML/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GB1G0

Quant Time: Dec 10 12:05:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM120420S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 10 11:26:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	111166	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	59440	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.43	152	12459	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	41490	26.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.56%
7) Chloroethane-d5	2.77	69	35828	30.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	120.84%
10) 1,1-Dichloroethene-d2	3.86	63	59142	19.99	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.96%
20) 2-Butanone-d5	6.90	46	44525	79.45	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	158.90%#
24) Chloroform-d	7.49	84	79620	27.83	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	111.32%
26) 1,2-Dichloroethane-d4	8.15	65	50365	31.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	125.16%
29) Benzene-d6	8.12	84	154693	44.95	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	179.80%#
33) 1,2-Dichloropropane-d6	9.12	67	45282	44.47	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	177.88%#
37) Toluene-d8	10.18	98	90699	29.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	117.60%
38) trans-1,3-Dichloropropene-	10.44	79	16145	33.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	132.68%
39) 2-Hexanone-d5	10.79	63	27257	106.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	213.68%#
48) 1,1,2,2-Tetrachloroethane-	12.56	84	22729	25.05	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.20%
61) 1,2-Dichlorobenzene-d4	13.72	152	10246	22.63	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.52%

Target Compounds

					Qvalue
3) Chloromethane	2.12	50	441	0.325 ug/L #	79
11) 1,1,2-Trichloro-1,2,2-trif	3.86	101	666	0.472 ug/L #	17
12) 1,1-Dichloroethene	3.86	96	697	0.524 ug/L #	1
13) Acetone	3.96	43	16165	39.347 ug/L	74
15) Methyl Acetate	4.49	43	405	0.392 ug/L #	51
16) Methylene chloride	4.74	84	4001	2.050 ug/L #	71
21) 2-Butanone	7.00	43	2150	2.964 ug/L	99
25) Chloroform	7.49	83	1037	0.407 ug/L	94
34) Benzene	8.17	78	3364	0.989 ug/L	100
35) Trichloroethene	8.70	95	3337	3.575 ug/L #	2
36) Methylcyclohexane	9.19	83	709	0.496 ug/L #	14
40) 1,2-Dichloropropane	9.12	63	4842	5.678 ug/L #	86
41) Bromodichloromethane	9.19	83	709	0.654 ug/L #	26
42) cis-1,3-Dichloropropene	9.89	75	1389	1.035 ug/L	87
44) Toluene	10.25	91	10899	3.039 ug/L	91
49) 2-Hexanone	10.79	43	2990	5.311 ug/L #	68
53) Ethylbenzene	11.59	91	7695	1.966 ug/L	90

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Quant Title : VOC Analysis
QLast Update : Thu Dec 10 11:26:10 2020
Response via : Initial Calibration

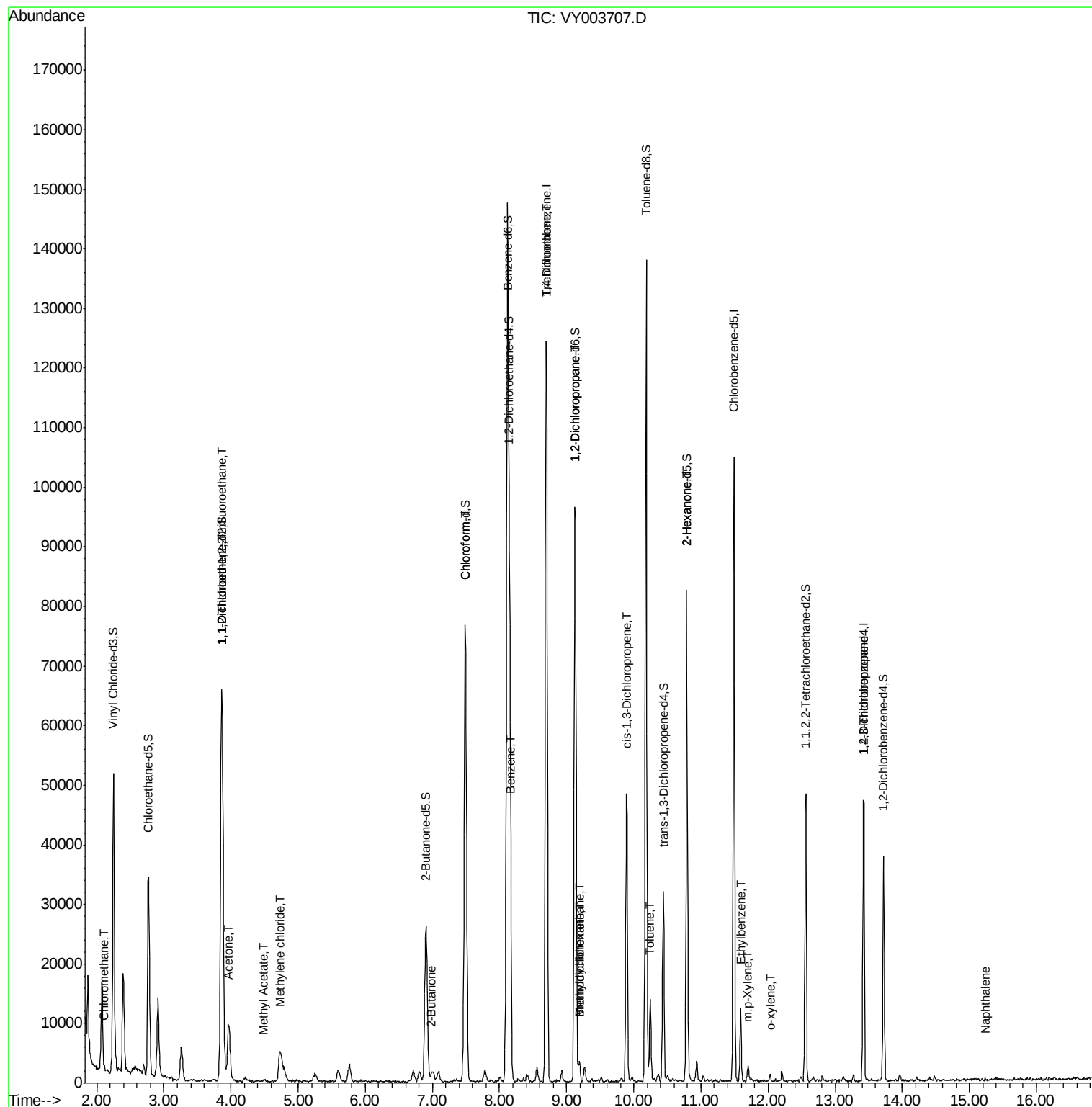
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) m,p-Xylene	11.69	106	596	0.395	ug/L	66
55) o-xylene	12.03	106	285	0.197	ug/L	85
59) 1,2,3-Trichloropropane	13.43	75	1634	2.318	ug/L	97
69) Naphthalene	15.24	128	212	0.226	ug/L #	69

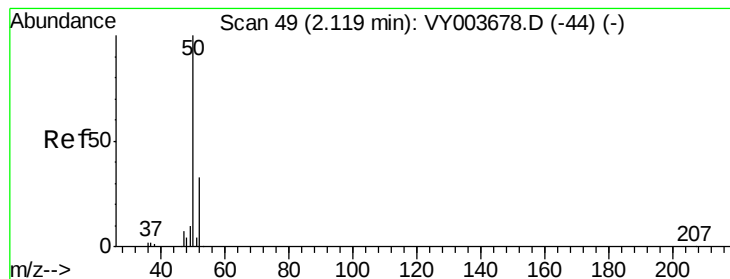
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.325 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampleId :

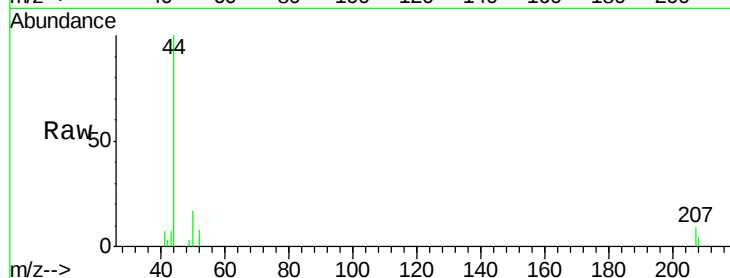
GB1G0

Tgt Ion: 50 Resp: 441

Ion Ratio Lower Upper

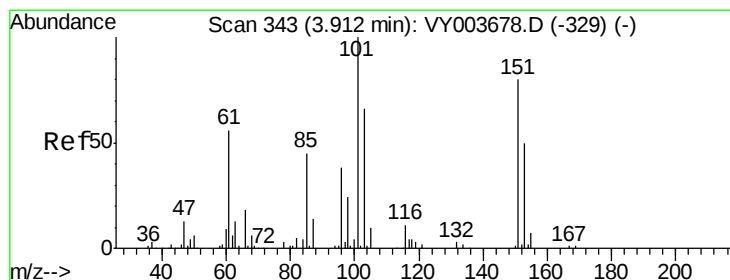
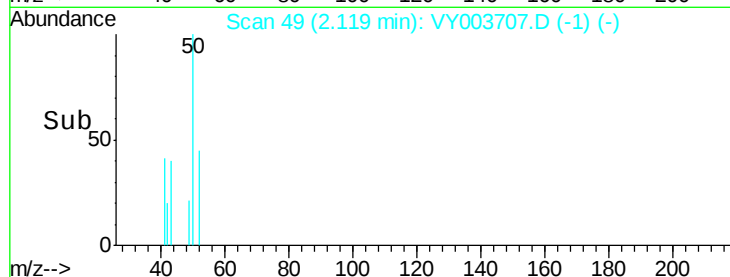
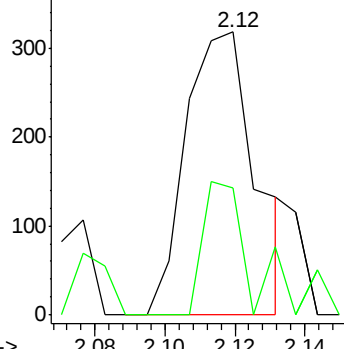
50 100

52 45.0 23.1 42.9#



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0



#11

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

Concen: 0.472 ug/L

RT: 3.86 min Scan# 334

Delta R.T. -0.05 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

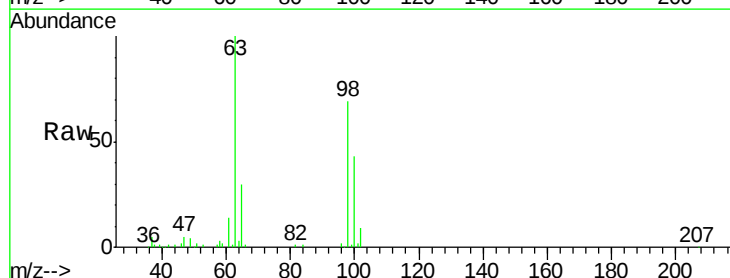
Tgt Ion: 101 Resp: 666

Ion Ratio Lower Upper

101 100

85 0.0 33.9 50.9#

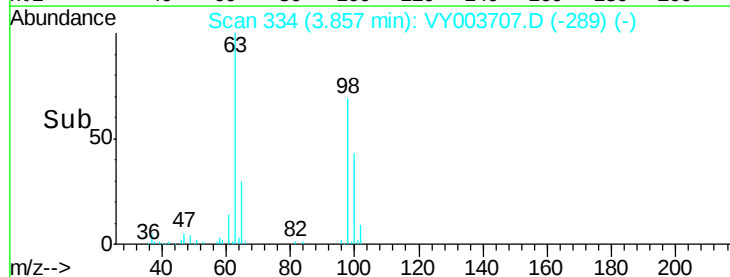
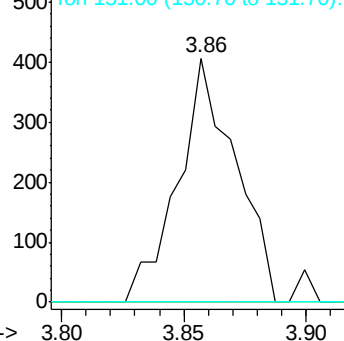
151 0.0 65.0 97.4#

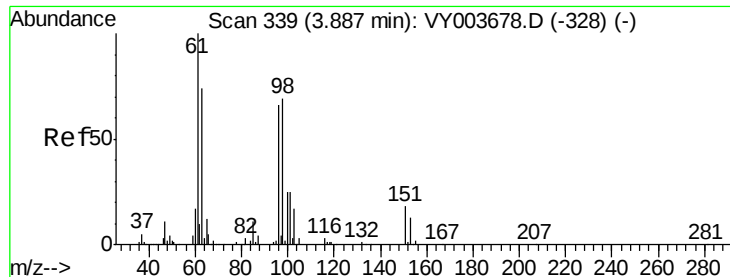


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VY0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 0.524 ug/L

RT: 3.86 min Scan# 335

Delta R.T. -0.02 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampleId :

GB1G0

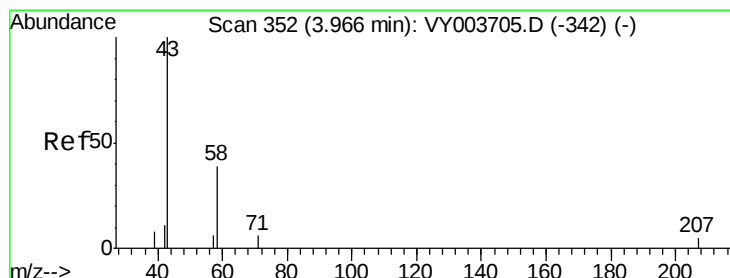
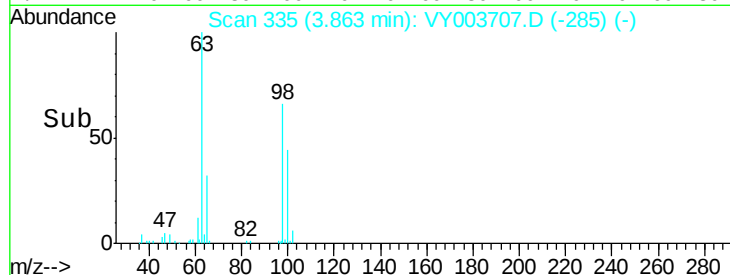
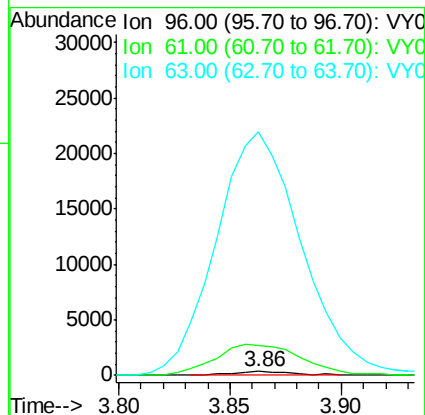
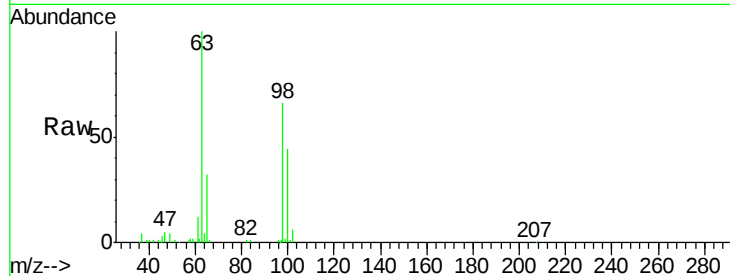
Tgt Ion: 96 Resp: 697

Ion Ratio Lower Upper

96 100

61 760.2 108.5 201.5#

63 6292.3 87.8 163.0#



#13

Acetone

Concen: 39.347 ug/L

RT: 3.96 min Scan# 351

Delta R.T. -0.01 min

Lab File: VY003707.D

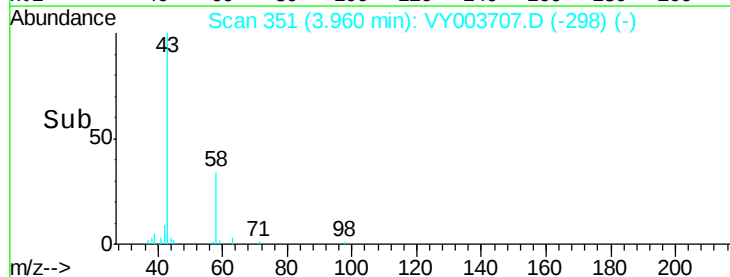
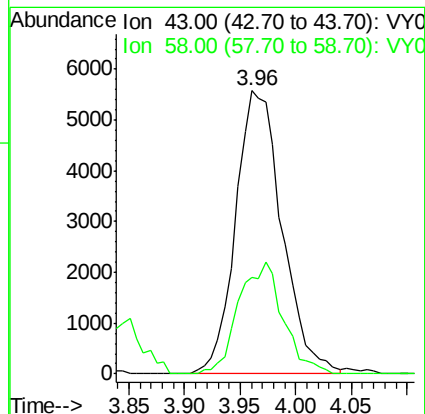
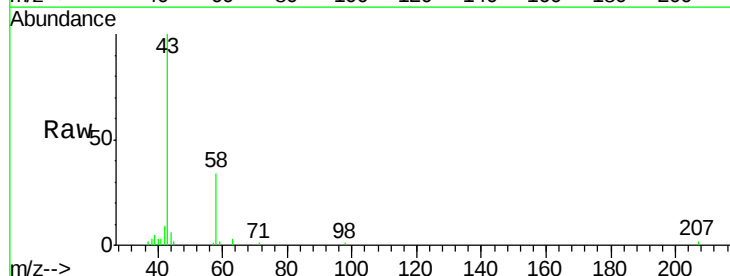
Acq: 09 Dec 2020 17:42

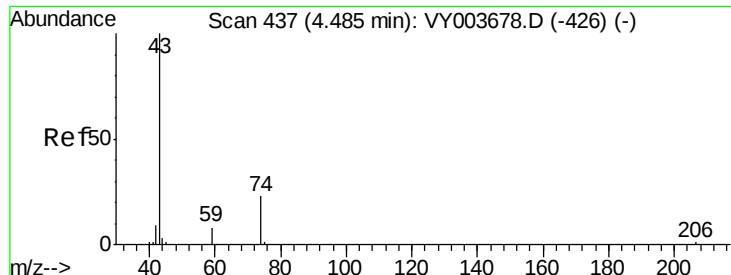
Tgt Ion: 43 Resp: 16165

Ion Ratio Lower Upper

43 100

58 19.5 0.0 68.8

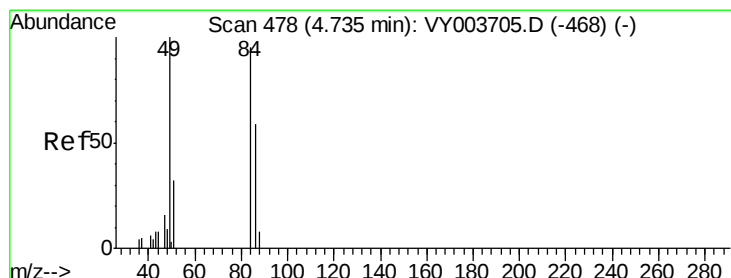
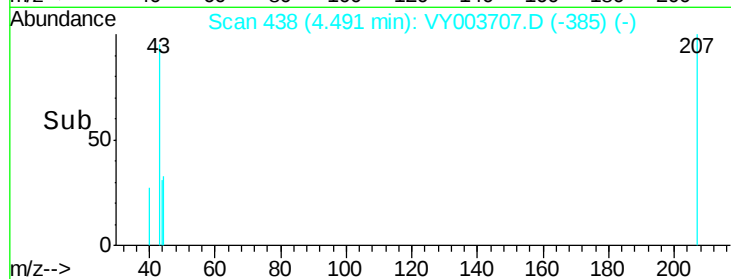
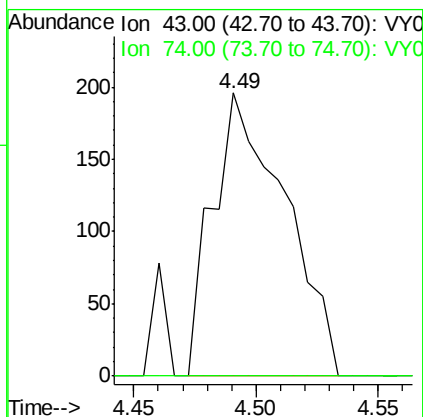
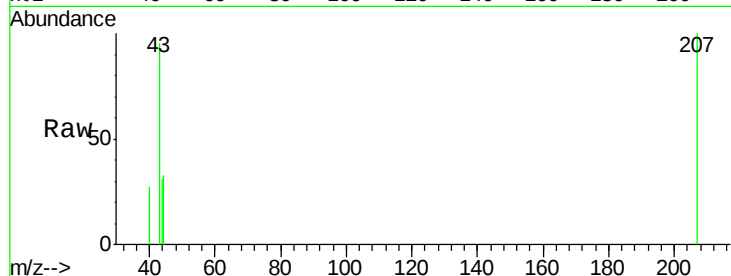




#15
Methyl Acetate
Concen: 0.392 ug/L
RT: 4.49 min Scan# 438
Delta R.T. -0.01 min
Lab File: VY003707.D
Acq: 09 Dec 2020 17:42

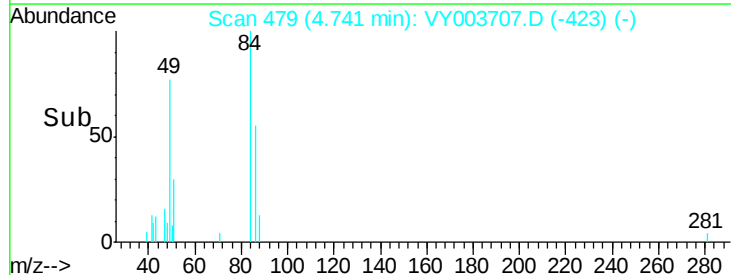
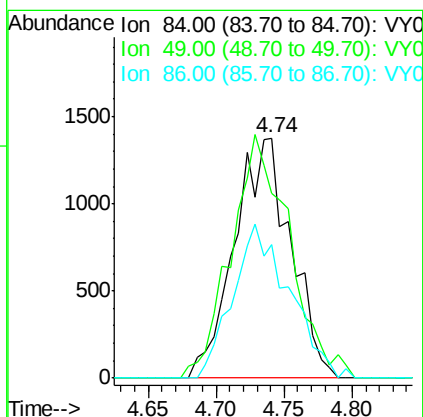
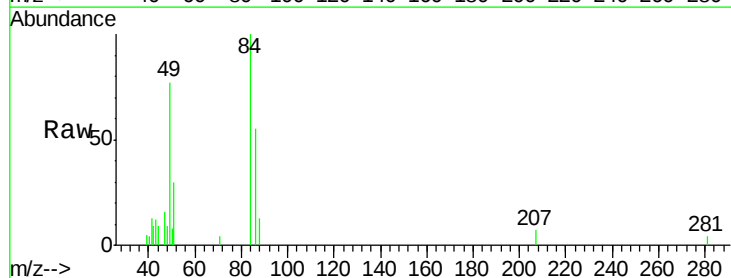
Instrument :
MSVOA_Y
ClientSampled :
GB1G0

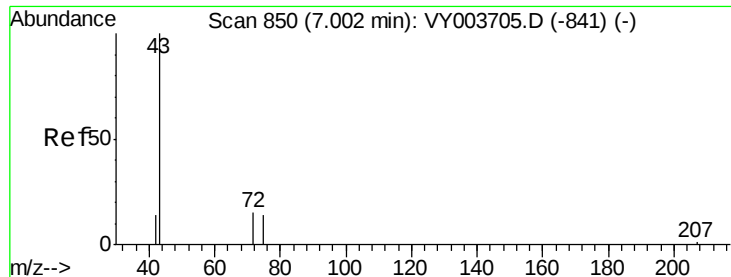
Tgt Ion: 43 Resp: 405
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#16
Methylene chloride
Concen: 2.050 ug/L
RT: 4.74 min Scan# 479
Delta R.T. 0.01 min
Lab File: VY003707.D
Acq: 09 Dec 2020 17:42

Tgt Ion: 84 Resp: 4001
Ion Ratio Lower Upper
84 100
49 76.7 83.7 155.4#
86 55.5 45.0 83.6





#21

2-Butanone

Concen: 2.964 ug/L

RT: 7.00 min Scan# 849

Delta R.T. -0.01 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampleId :

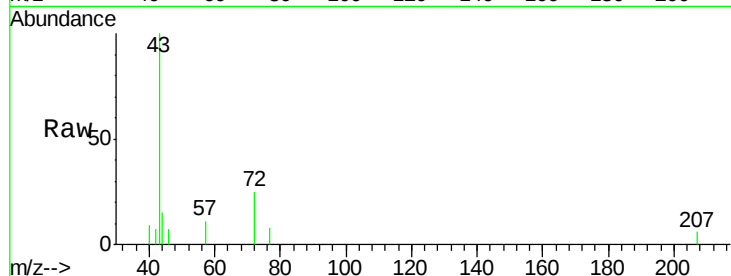
GB1G0

Tgt Ion: 43 Resp: 2150

Ion Ratio Lower Upper

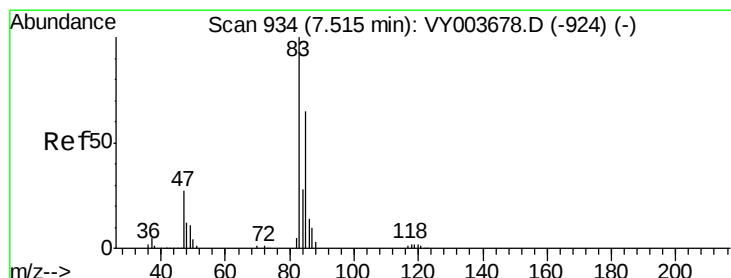
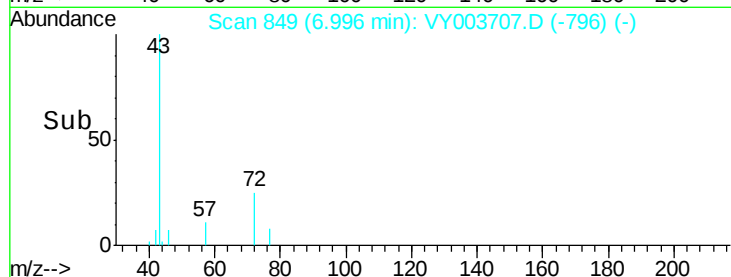
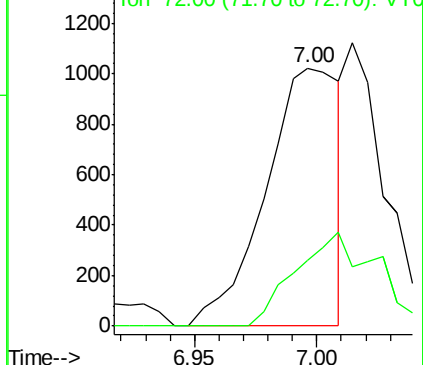
43 100

72 27.3 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#25

Chloroform

Concen: 0.407 ug/L

RT: 7.49 min Scan# 930

Delta R.T. -0.02 min

Lab File: VY003707.D

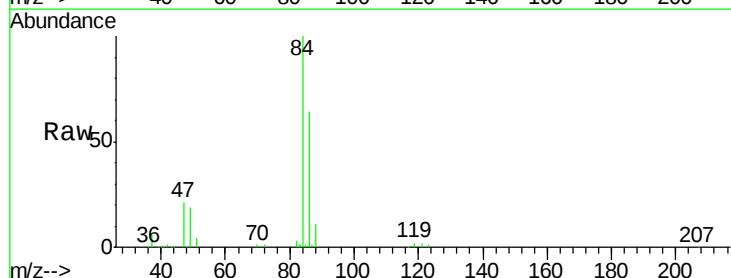
Acq: 09 Dec 2020 17:42

Tgt Ion: 83 Resp: 1037

Ion Ratio Lower Upper

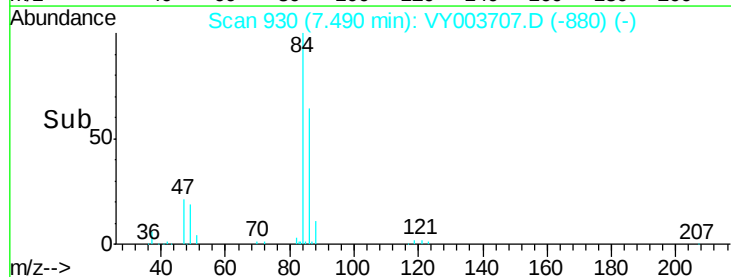
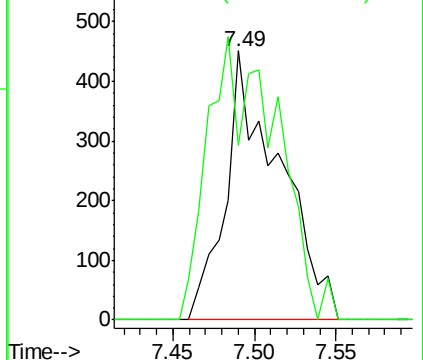
83 100

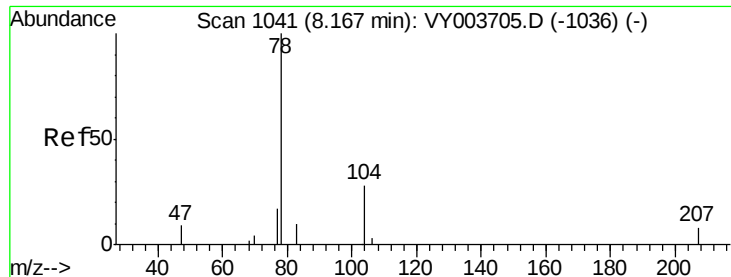
85 61.5 46.5 86.5



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0





#34

Benzene

Concen: 0.989 ug/L

RT: 8.17 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

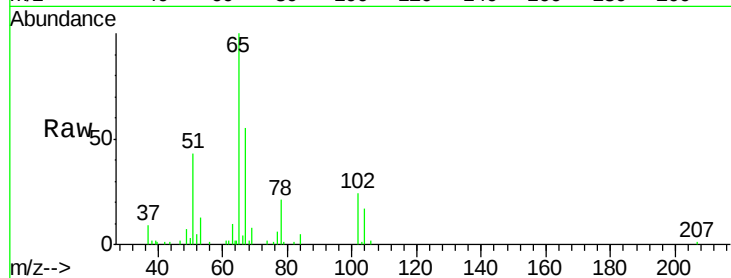
Instrument :

MSVOA_Y

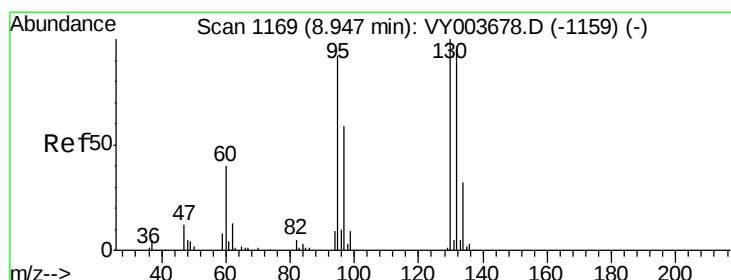
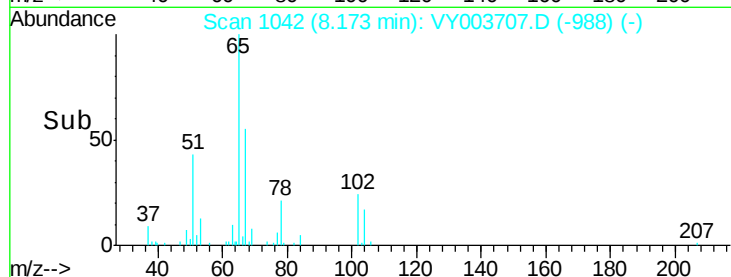
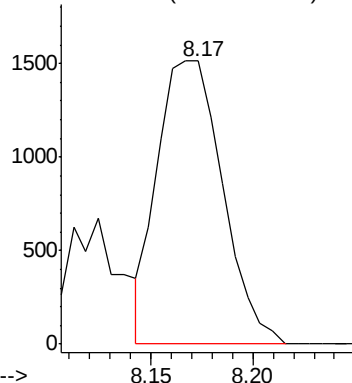
ClientSampleId :

GB1G0

Tgt Ion: 78 Resp: 3364



Abundance Ion 78.00 (77.70 to 78.70): VY0



#35

Trichloroethene

Concen: 3.575 ug/L

RT: 8.70 min Scan# 1128

Delta R.T. -0.25 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Tgt Ion: 95 Resp: 3337

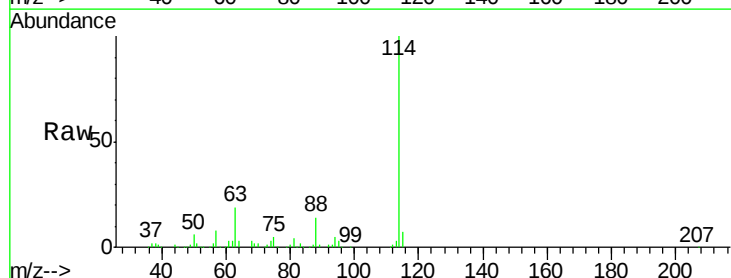
Ion Ratio Lower Upper

95 100

97 0.0 45.8 85.0#

132 0.0 74.2 137.8#

130 0.0 76.2 141.6#

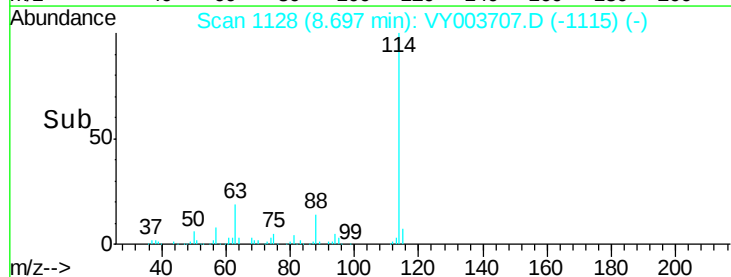
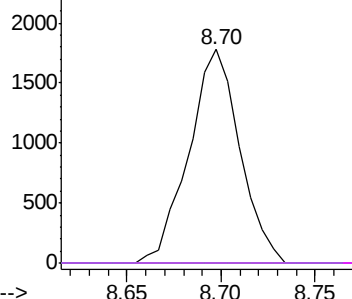


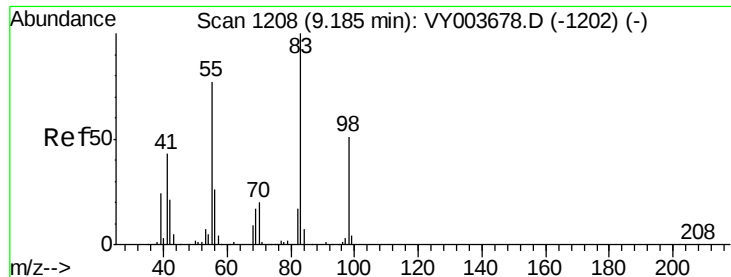
Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0

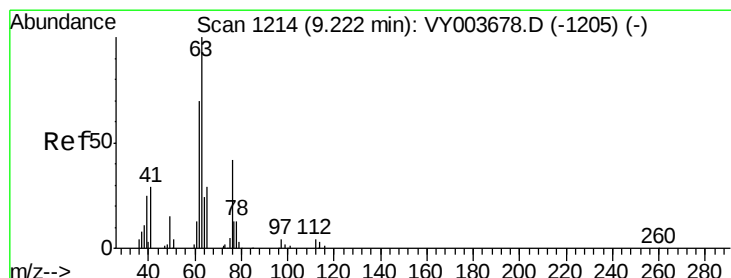
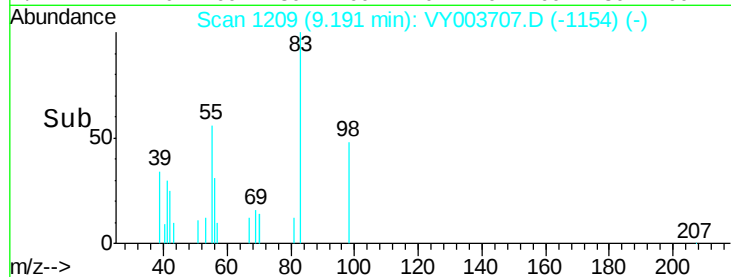
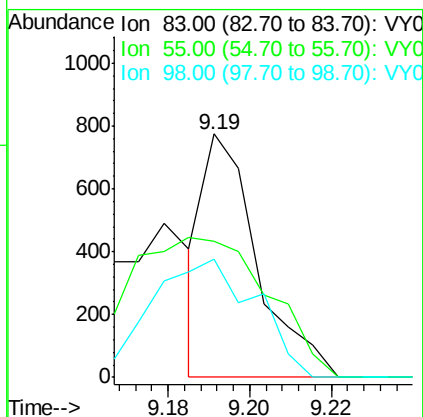
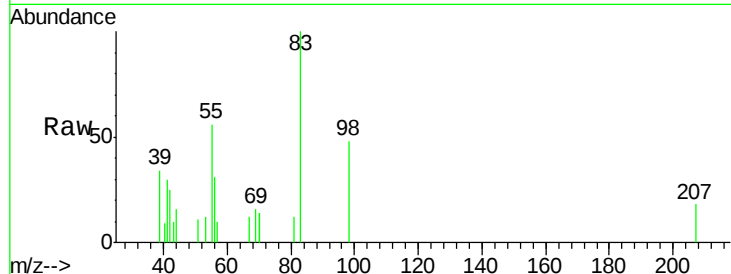




#36
Methylcyclohexane
Concen: 0.496 ug/L
RT: 9.19 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VY003707.D
Acq: 09 Dec 2020 17:42

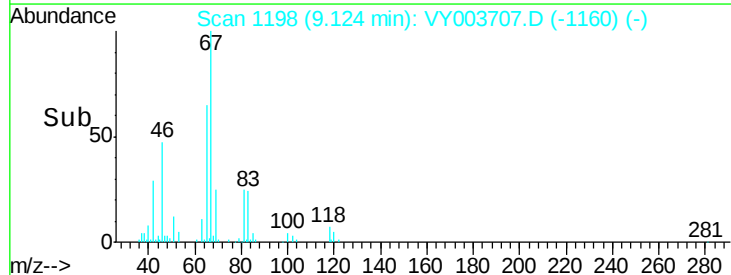
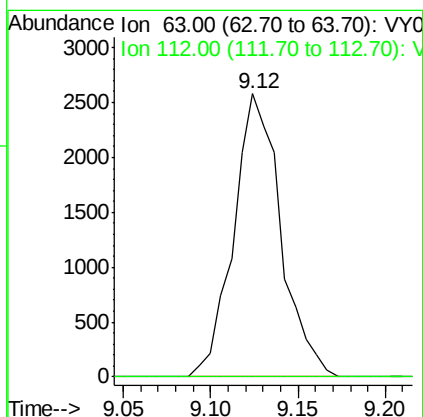
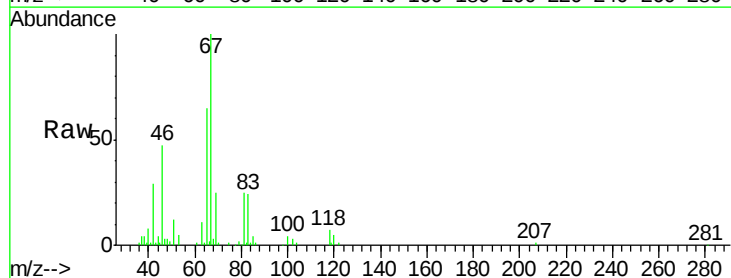
Instrument :
MSVOA_Y
ClientSampleId :
GB1G0

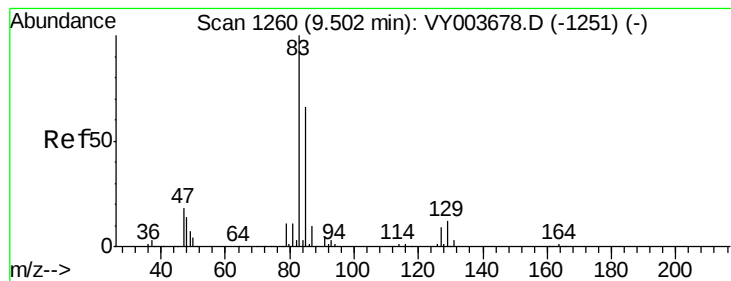
Tgt Ion: 83 Resp: 709
Ion Ratio Lower Upper
83 100
55 153.7 56.4 84.6#
98 94.8 40.3 60.5#



#40
1,2-Dichloropropane
Concen: 5.678 ug/L
RT: 9.12 min Scan# 1198
Delta R.T. -0.10 min
Lab File: VY003707.D
Acq: 09 Dec 2020 17:42

Tgt Ion: 63 Resp: 4842
Ion Ratio Lower Upper
63 100
112 0.0 3.7 5.5#





#41

Bromodichloromethane

Concen: 0.654 ug/L

RT: 9.19 min Scan# 1209

Delta R.T. -0.31 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampleId :

GB1G0

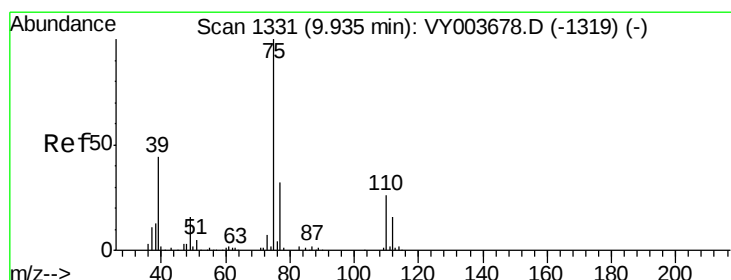
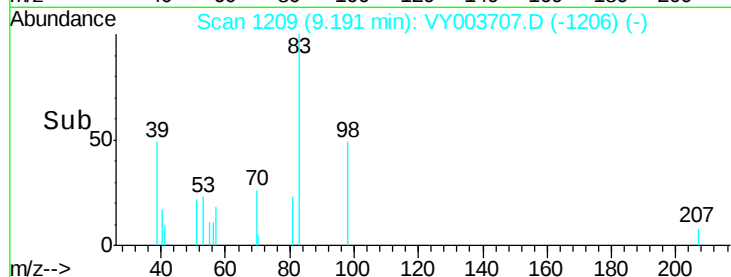
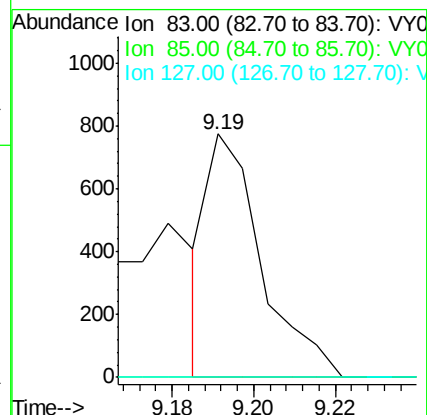
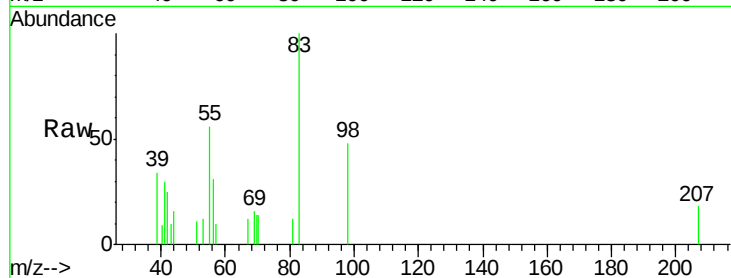
Tgt Ion: 83 Resp: 709

Ion Ratio Lower Upper

83 100

85 0.0 44.0 81.6#

127 0.0 7.2 10.8#



#42

cis-1,3-Dichloropropene

Concen: 1.035 ug/L

RT: 9.89 min Scan# 1324

Delta R.T. -0.04 min

Lab File: VY003707.D

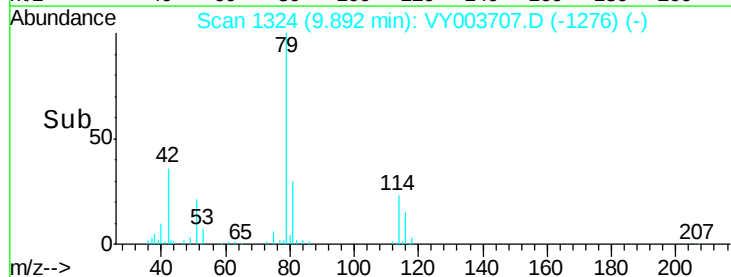
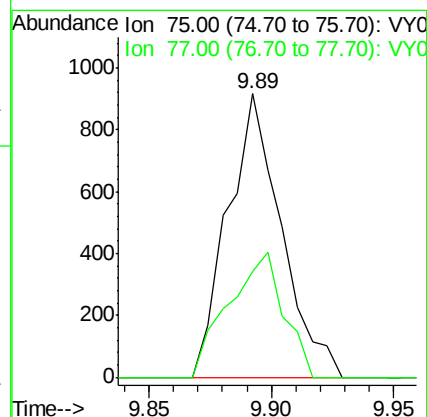
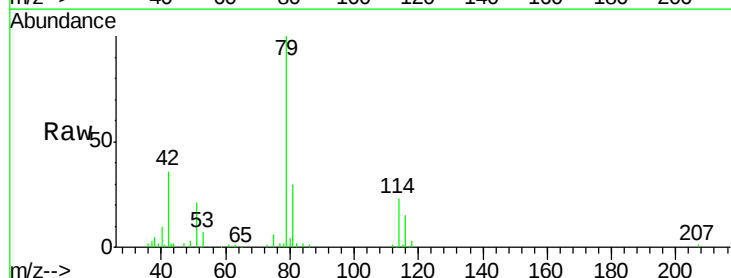
Acq: 09 Dec 2020 17:42

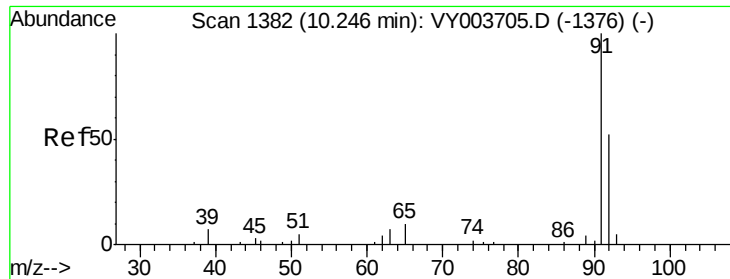
Tgt Ion: 75 Resp: 1389

Ion Ratio Lower Upper

75 100

77 37.3 21.3 39.6





#44

Toluene

Concen: 3.039 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampleId :

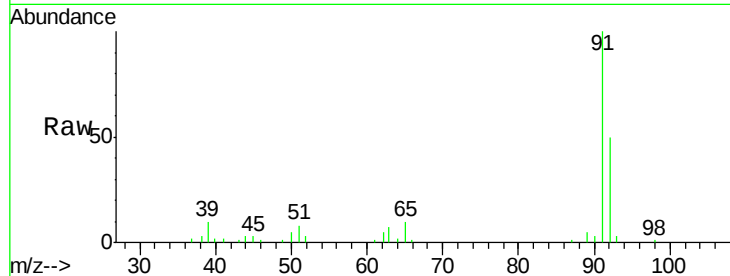
GB1G0

Tgt Ion: 91 Resp: 10899

Ion Ratio Lower Upper

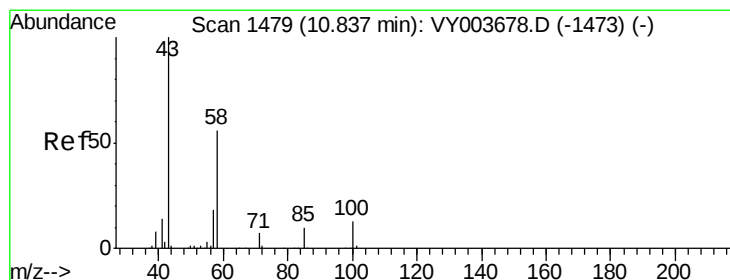
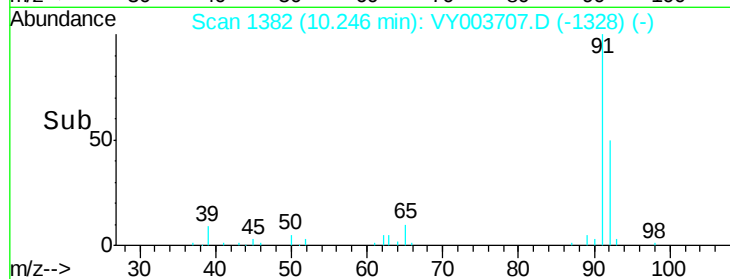
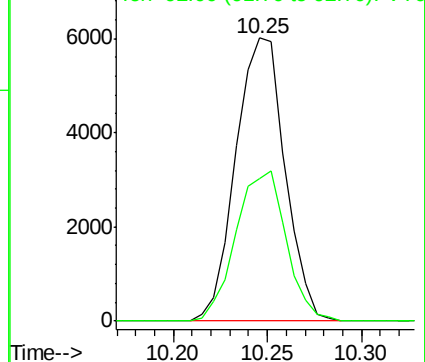
91 100

92 50.2 39.8 73.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0



#49

2-Hexanone

Concen: 5.311 ug/L

RT: 10.79 min Scan# 1472

Delta R.T. -0.04 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Tgt Ion: 43 Resp: 2990

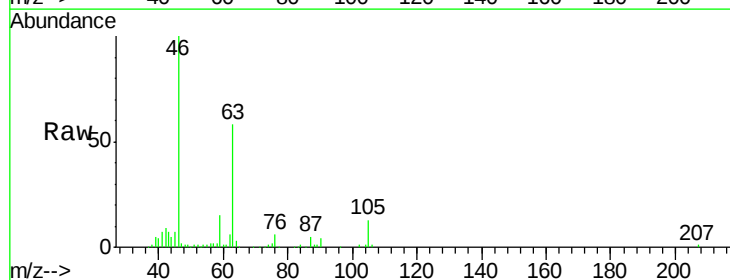
Ion Ratio Lower Upper

43 100

58 31.9 44.8 67.2#

57 31.8 14.8 22.2#

100 0.0 9.9 14.9#

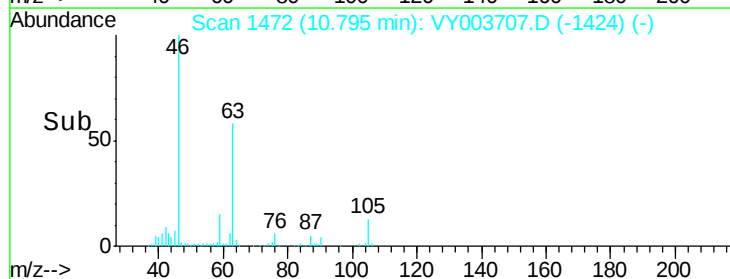
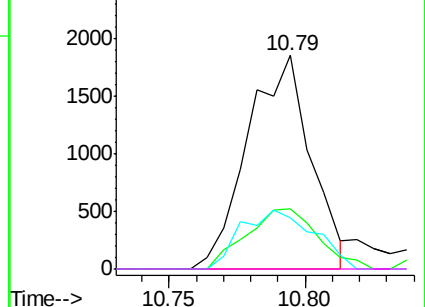


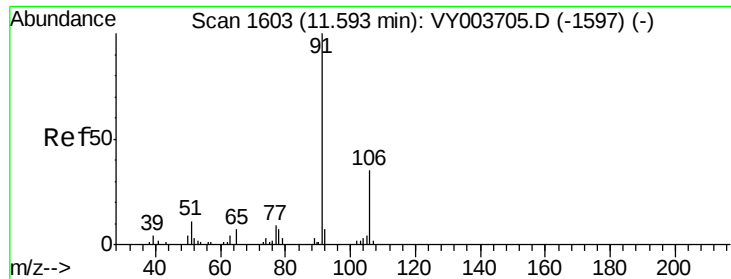
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#53

Ethylbenzene

Concen: 1.966 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VY003707.D

Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampled :

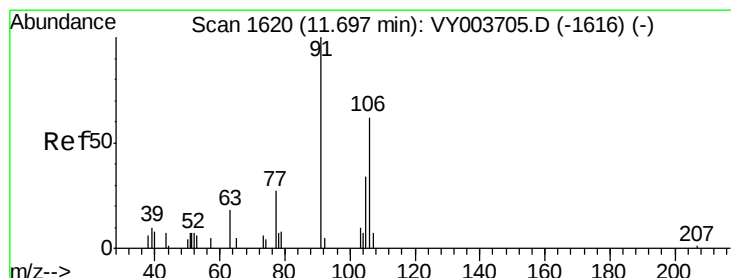
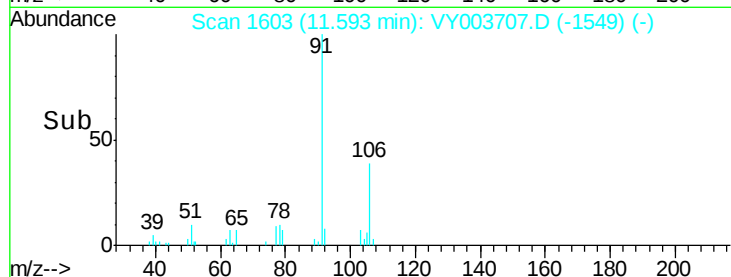
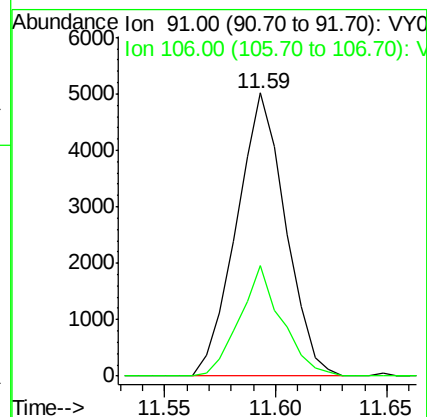
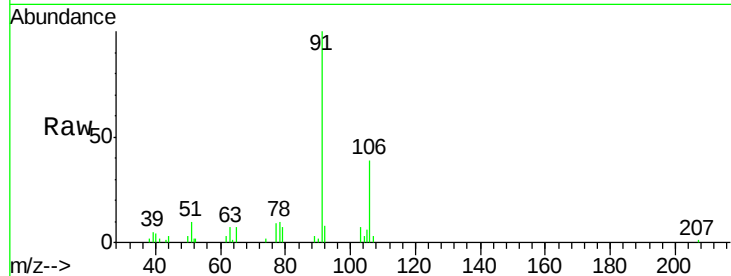
GB1G0

Tgt Ion: 91 Resp: 7695

Ion Ratio Lower Upper

91 100

106 38.9 23.3 43.3



#54

m,p-Xylene

Concen: 0.395 ug/L

RT: 11.69 min Scan# 1619

Delta R.T. -0.01 min

Lab File: VY003707.D

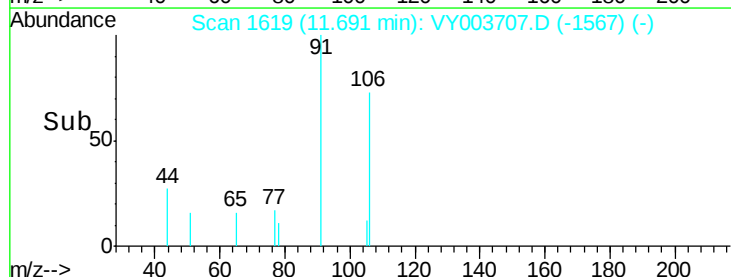
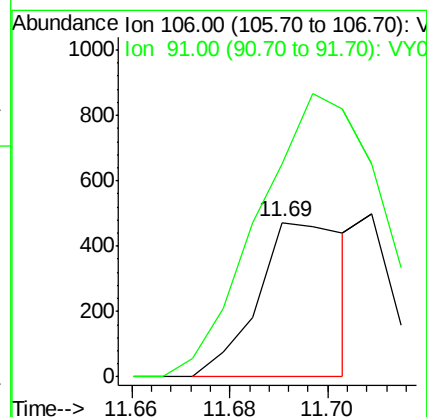
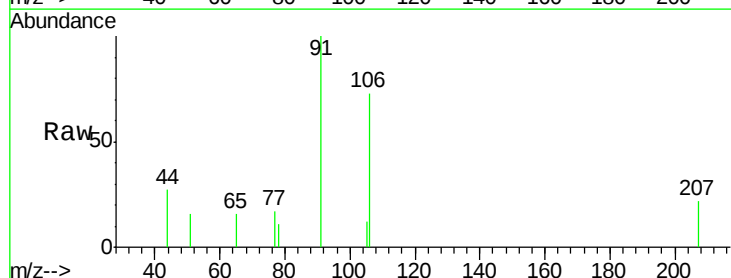
Acq: 09 Dec 2020 17:42

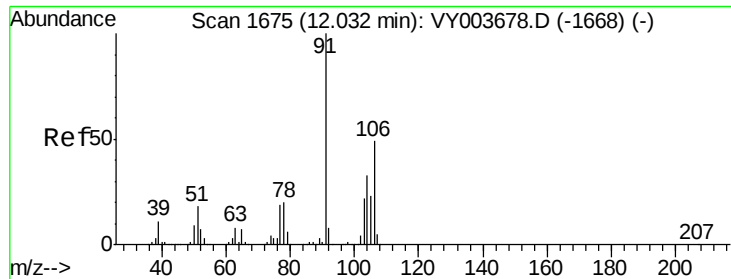
Tgt Ion: 106 Resp: 596

Ion Ratio Lower Upper

106 100

91 137.9 131.3 243.9

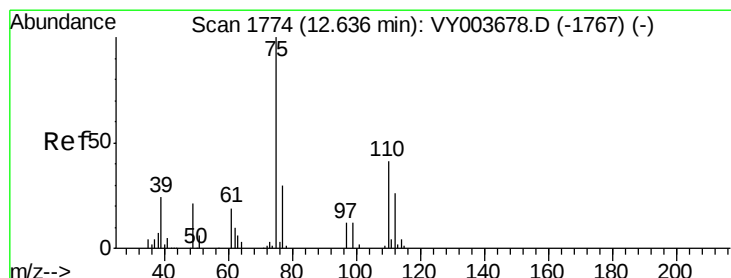
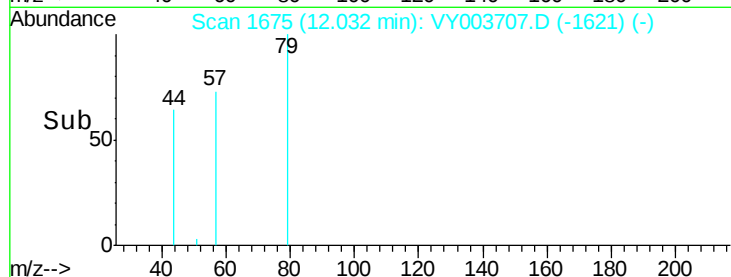
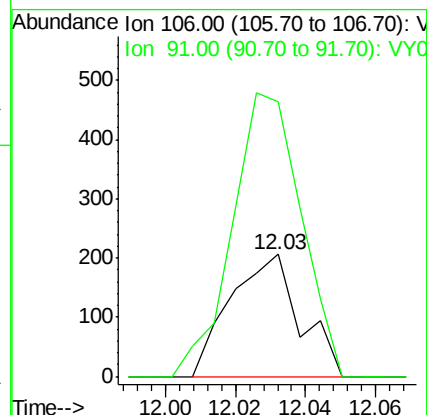
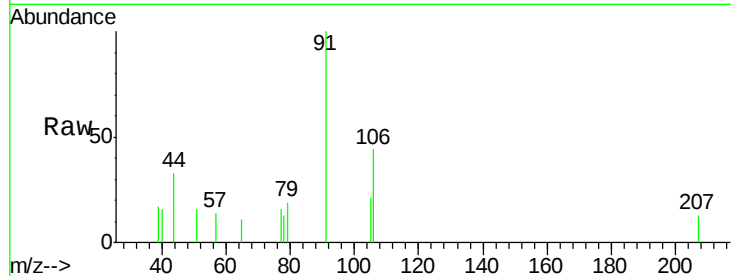




#55
o-xylene
Concen: 0.197 ug/L
RT: 12.03 min Scan# 1675
Delta R.T. 0.00 min
Lab File: VY003707.D
Acq: 09 Dec 2020 17:42

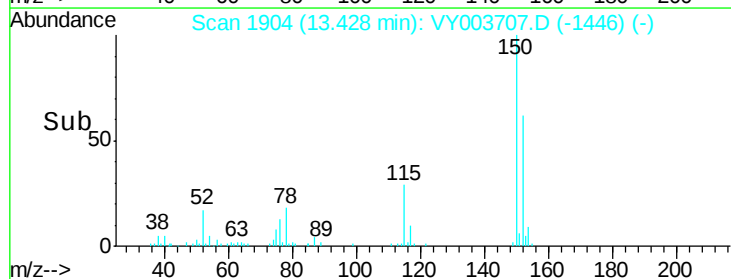
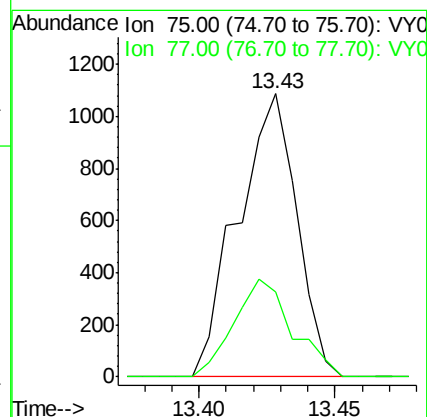
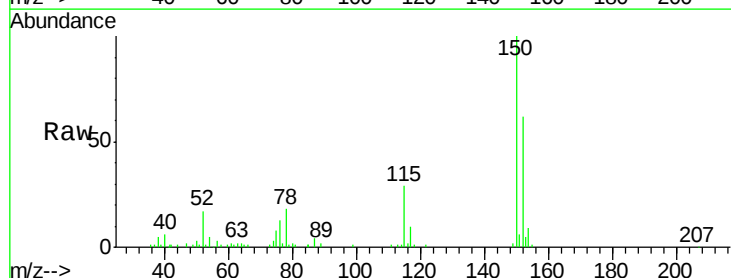
Instrument :
MSVOA_Y
ClientSampleId :
GB1G0

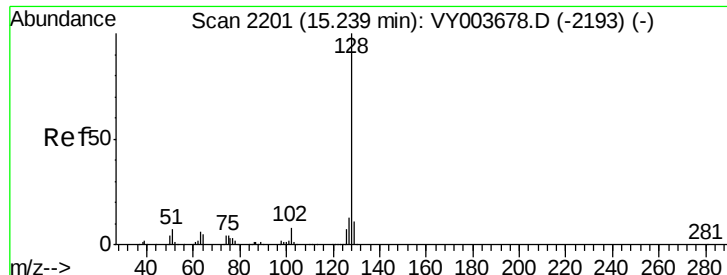
Tgt Ion: 106 Resp: 285
Ion Ratio Lower Upper
106 100
91 225.2 141.7 263.3



#59
1,2,3-Trichloropropane
Concen: 2.318 ug/L
RT: 13.43 min Scan# 1904
Delta R.T. 0.79 min
Lab File: VY003707.D
Acq: 09 Dec 2020 17:42

Tgt Ion: 75 Resp: 1634
Ion Ratio Lower Upper
75 100
77 34.3 25.9 38.9





#69

Naphthalene

Concen: 0.226 ug/L

RT: 15.24 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VY003707.D

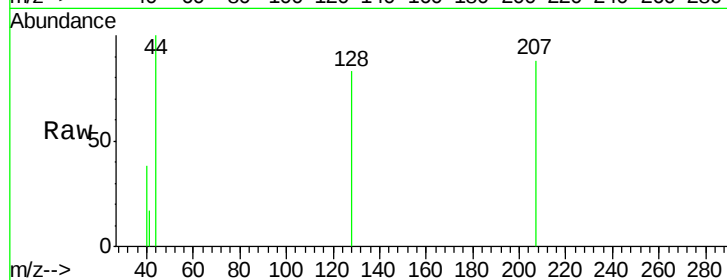
Acq: 09 Dec 2020 17:42

Instrument :

MSVOA_Y

ClientSampleId :

GB1G0



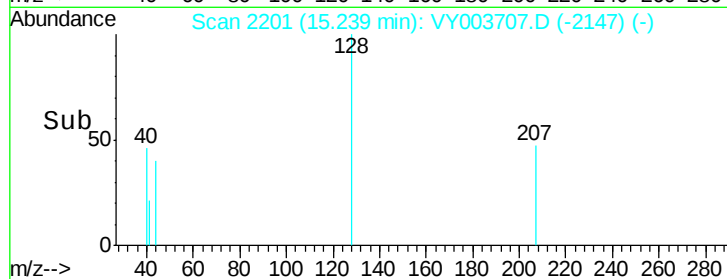
Tgt Ion:128 Resp: 212

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

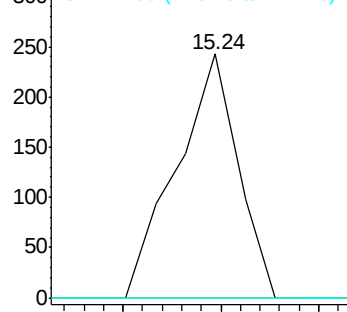
127 0.0 10.2 15.4#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->