

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121120\
 Data File : VY003734.D
 Acq On : 11 Dec 2020 17:58
 Operator : SY/MD
 Sample : L5063-05
 Misc : 4.57G/10ML/MSVOA Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD7

Quant Time: Dec 12 01:42:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM120420S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 11 10:03:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	282609	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	190106	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	50892	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	68015	17.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	68.08%
7) Chloroethane-d5	2.77	69	64562	21.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.64%
10) 1,1-Dichloroethene-d2	3.86	63	117957	15.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	62.72%
20) 2-Butanone-d5	6.90	46	74095	52.00	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.00%
24) Chloroform-d	7.49	84	174605	24.01	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.04%
26) 1,2-Dichloroethane-d4	8.15	65	97472	23.82	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.28%
29) Benzene-d6	8.12	84	361433	32.84	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	131.36%
33) 1,2-Dichloropropane-d6	9.12	67	117275	36.01	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	144.04%#
37) Toluene-d8	10.18	98	277199	28.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.40%
38) trans-1,3-Dichloropropene-	10.44	79	38094	24.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.88%
39) 2-Hexanone-d5	10.79	63	56406	69.13	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	138.26%#
48) 1,1,2,2-Tetrachloroethane-	12.56	84	82535	28.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	113.76%
61) 1,2-Dichlorobenzene-d4	13.72	152	51064	27.62	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	110.48%

Target Compounds

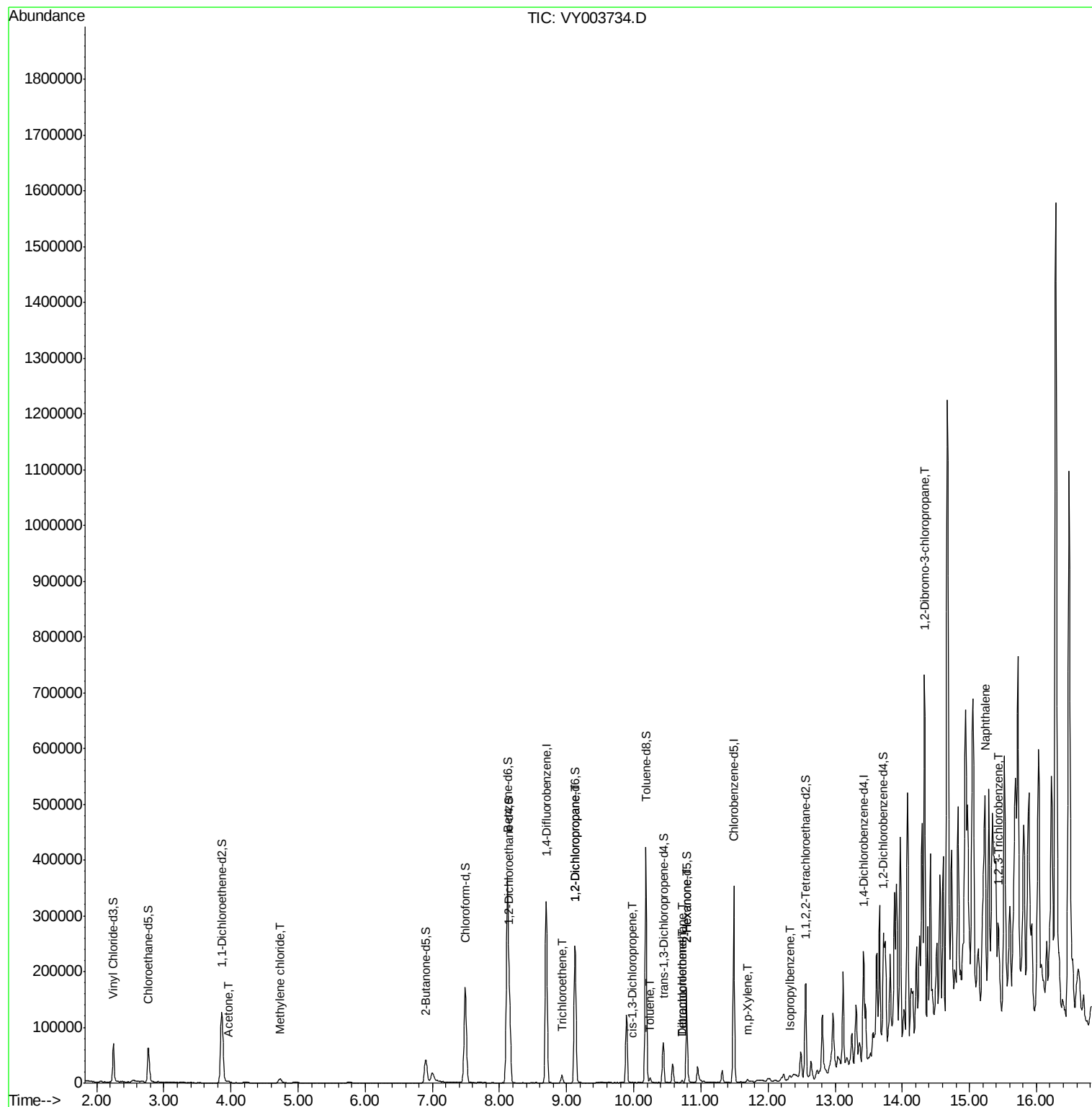
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	3.97	43	4374	4.188	ug/L	94
16) Methylene chloride	4.73	84	5164	1.041	ug/L	98
35) Trichloroethene	8.94	95	803	0.269	ug/L #	75
40) 1,2-Dichloropropane	9.12	63	12471	4.572	ug/L #	86
42) cis-1,3-Dichloropropene	9.98	75	684	0.159	ug/L	97
44) Toluene	10.25	91	6500	0.567	ug/L	93
47) Tetrachloroethene	10.72	164	692	0.298	ug/L #	76
49) 2-Hexanone	10.79	43	7311	4.060	ug/L #	63
50) Dibromochloromethane	10.72	129	691	0.251	ug/L #	10
54) m,p-Xylene	11.70	106	1315	0.272	ug/L	88
57) Isopropylbenzene	12.33	105	1969	0.163	ug/L #	77
66) 1,2-Dibromo-3-chloropropan	14.33	75	3649	14.108	ug/L #	1
69) Naphthalene	15.23	128	255316	66.691	ug/L	98
70) 1,2,3-Trichlorobenzene	15.44	180	899	0.539	ug/L #	1

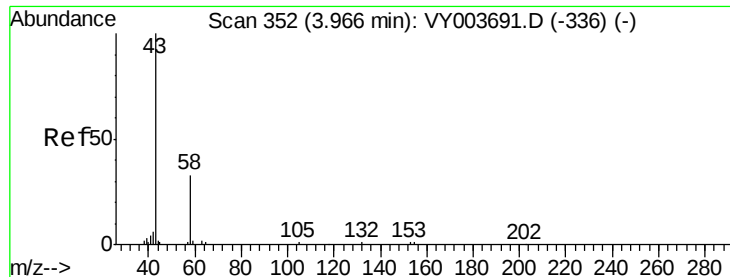
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 01:42:05 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM120420S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 11 10:03:37 2020
Response via : Initial Calibration





#13

Acetone

Concen: 4.188 ug/L

RT: 3.97 min Scan# 352

Delta R.T. 0.01 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Instrument :

MSVOA_Y

ClientSampleId :

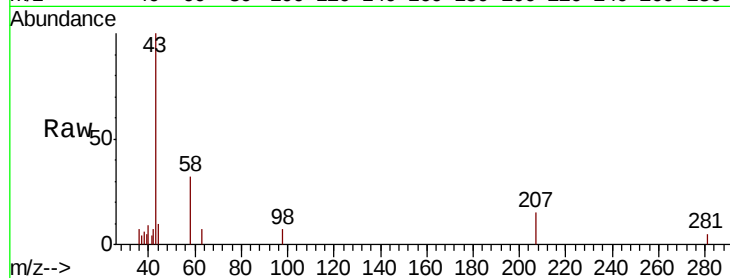
C0AD7

Tot Ion: 43 Resp: 4374

Ion Ratio Lower Upper

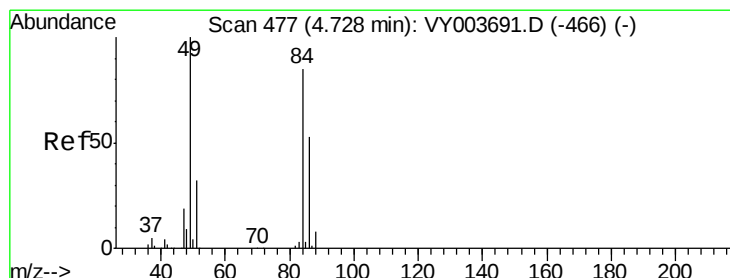
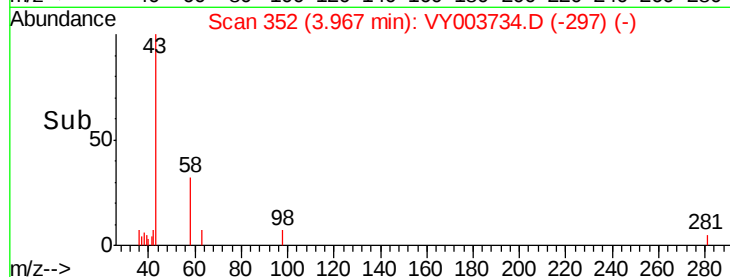
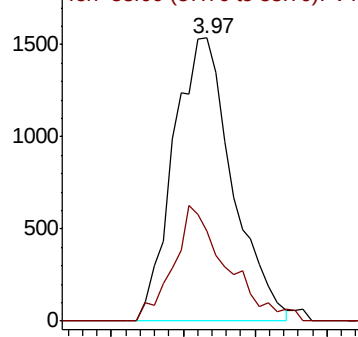
43 100

58 30.7 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VY003734.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VY003734.D (-336) (-)



#16

Methylene chloride

Concen: 1.041 ug/L

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

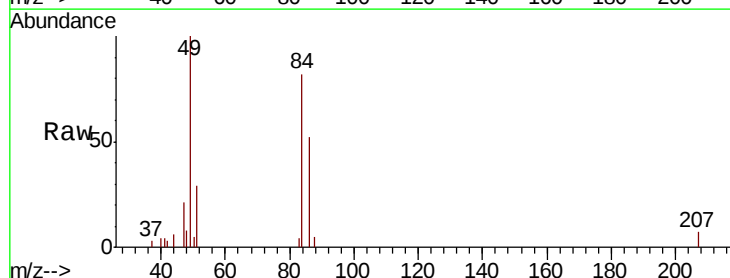
Tgt Ion: 84 Resp: 5164

Ion Ratio Lower Upper

84 100

49 122.2 83.7 155.4

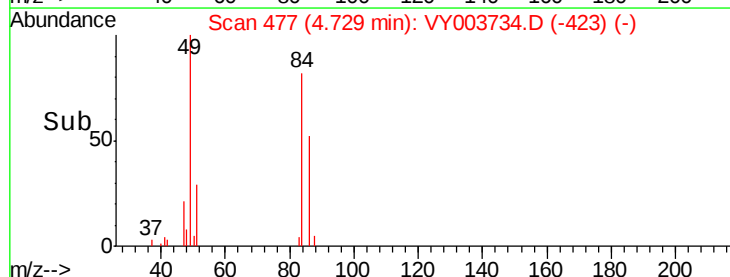
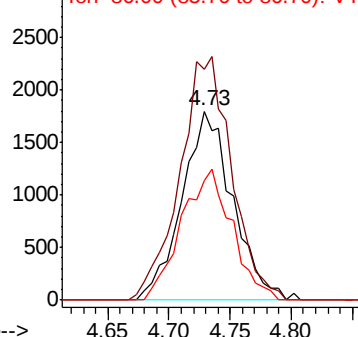
86 63.6 45.0 83.6

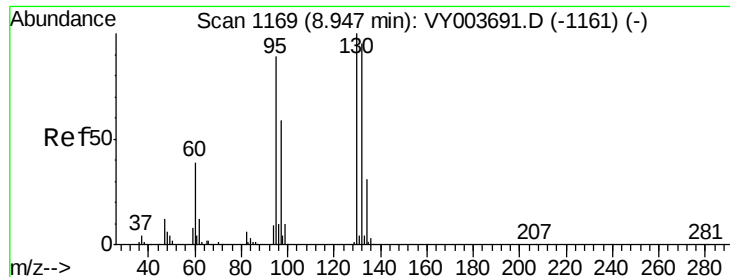


Abundance Ion 84.00 (83.70 to 84.70): VY003734.D (-466) (-)

Ion 49.00 (48.70 to 49.70): VY003734.D (-466) (-)

Ion 86.00 (85.70 to 86.70): VY003734.D (-466) (-)





#35

Trichloroethene

Concen: 0.269 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. -0.01 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Instrument :

MSVOA_Y

ClientSampleId :

C0AD7

Tot Ion: 95 Resp: 803

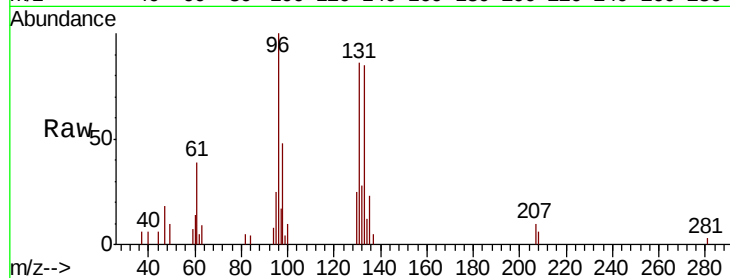
Ion Ratio Lower Upper

95 100

97 16.8 45.8 85.0#

132 116.2 74.2 137.8

130 90.9 76.2 141.6

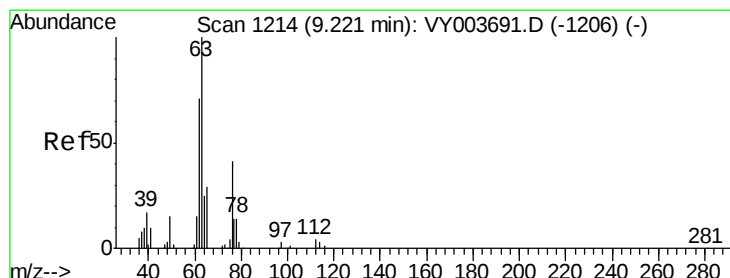
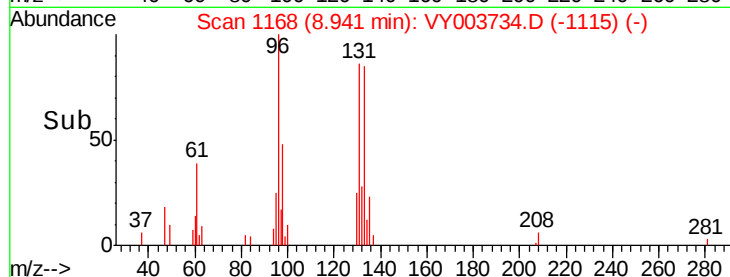
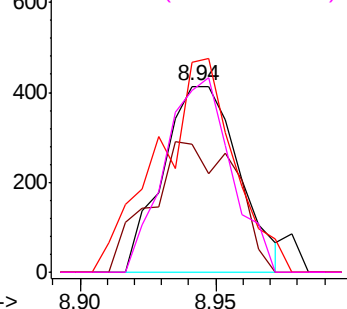


Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#40

1,2-Dichloropropane

Concen: 4.572 ug/L

RT: 9.12 min Scan# 1198

Delta R.T. -0.10 min

Lab File: VY003734.D

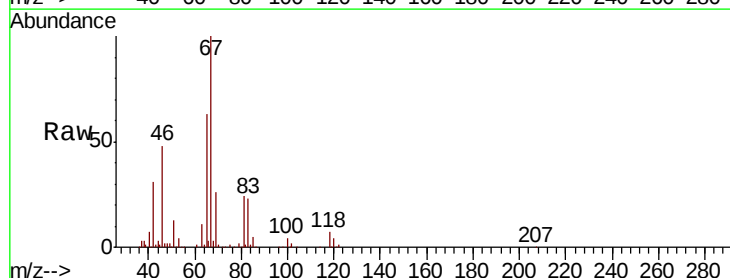
Acq: 11 Dec 2020 17:58

Tgt Ion: 63 Resp: 12471

Ion Ratio Lower Upper

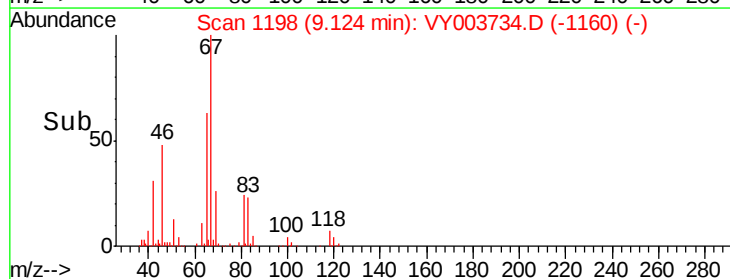
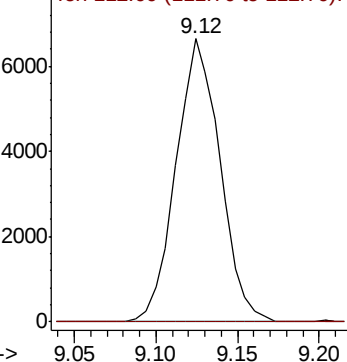
63 100

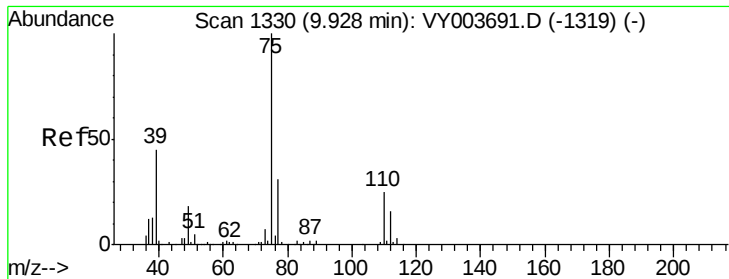
112 0.0 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 112.00 (111.70 to 112.70): V



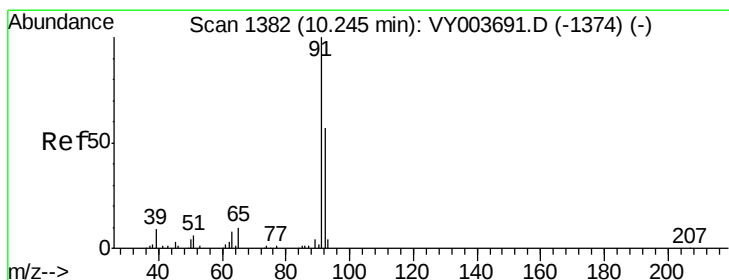
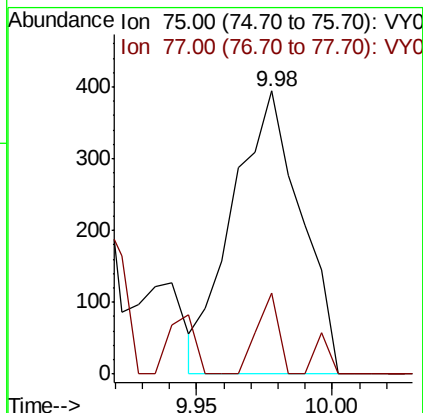
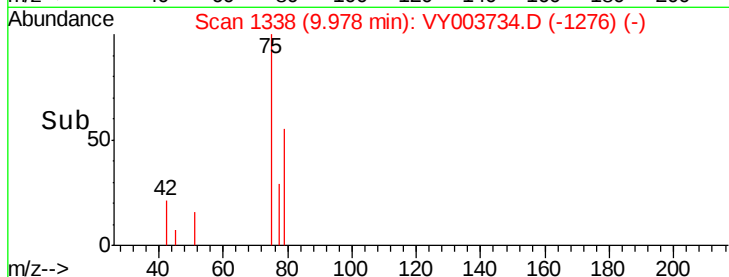
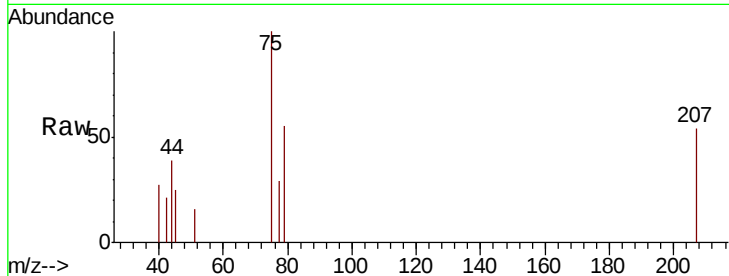


#42

cis-1,3-Dichloropropene
Concen: 0.159 ug/L
RT: 9.98 min Scan# 1338
Delta R.T. 0.05 min
Lab File: VY003734.D
Acq: 11 Dec 2020 17:58

Instrument :
MSVOA_Y
ClientSampleId :
C0AD7

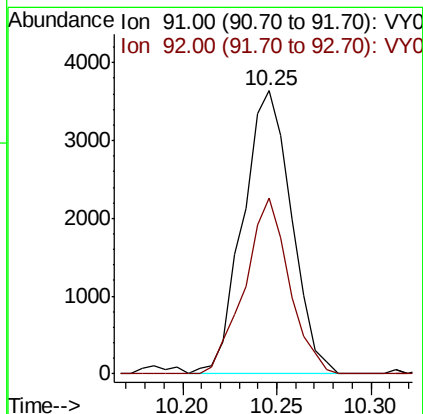
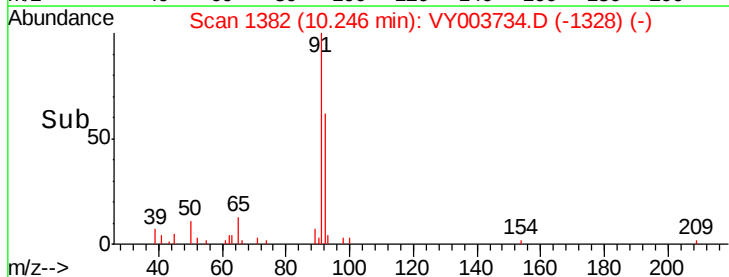
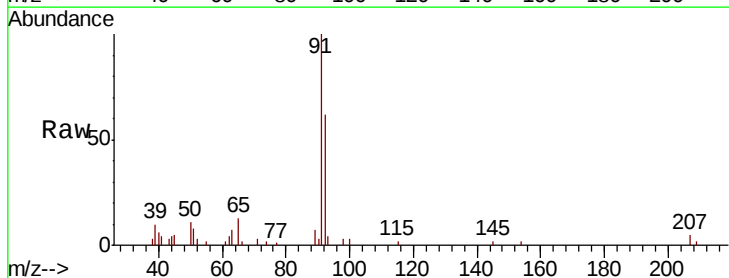
Tot Ion: 75 Resp: 684
Ion Ratio Lower Upper
75 100
77 28.7 21.3 39.6

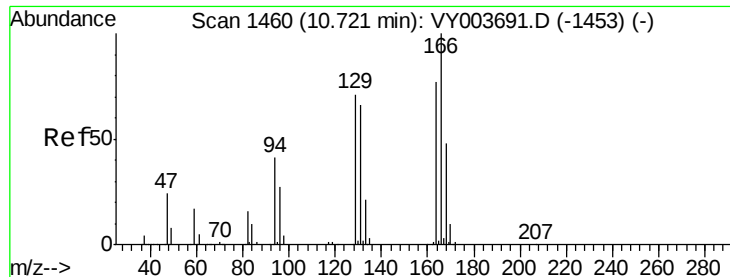


#44

Toluene
Concen: 0.567 ug/L
RT: 10.25 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VY003734.D
Acq: 11 Dec 2020 17:58

Tgt Ion: 91 Resp: 6500
Ion Ratio Lower Upper
91 100
92 62.0 39.8 73.8





#47

Tetrachloroethene

Concen: 0.298 ug/L

RT: 10.72 min Scan# 1459

Delta R.T. -0.01 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Instrument :

MSVOA_Y

ClientSampleId :

C0AD7

Tot Ion:164 Resp: 692

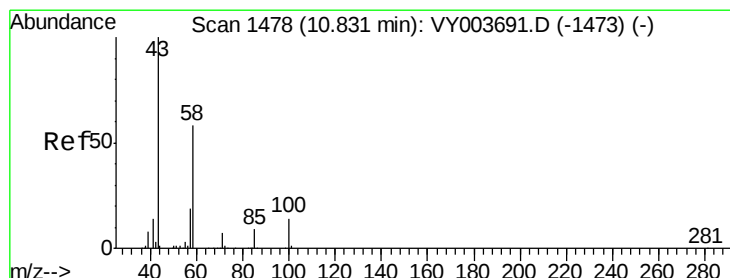
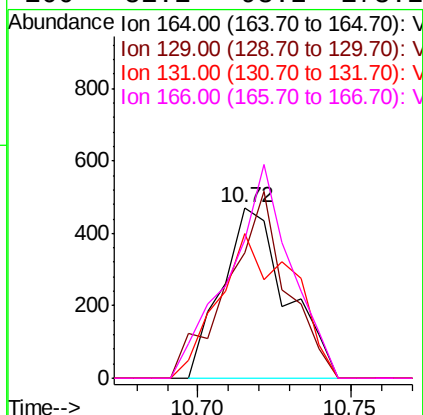
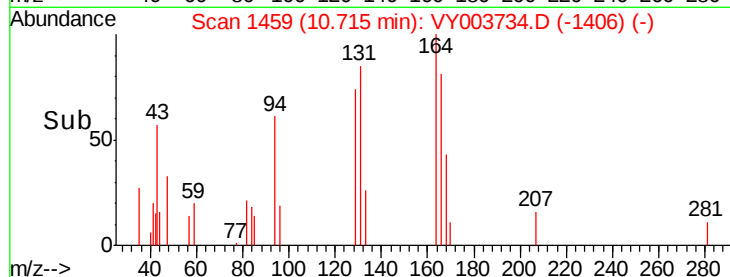
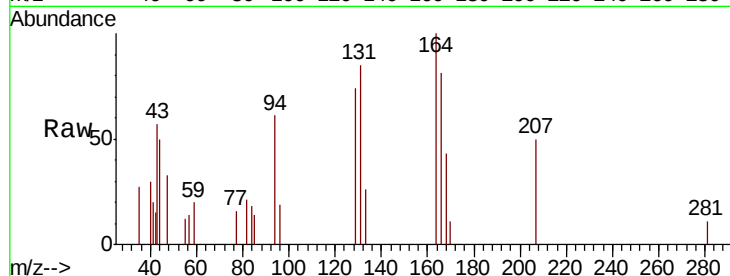
Ion Ratio Lower Upper

164 100

129 73.9 59.6 110.6

131 84.5 57.9 107.5

166 81.1 93.2 173.2#



#49

2-Hexanone

Concen: 4.060 ug/L

RT: 10.79 min Scan# 1471

Delta R.T. -0.05 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Tgt Ion: 43 Resp: 7311

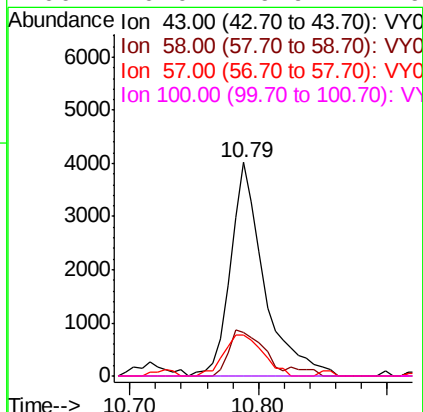
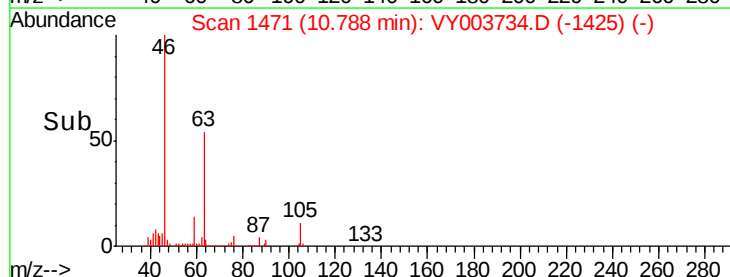
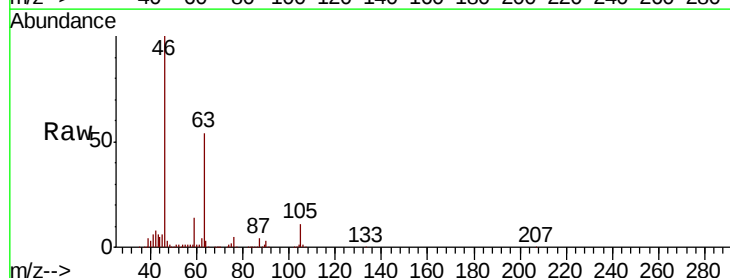
Ion Ratio Lower Upper

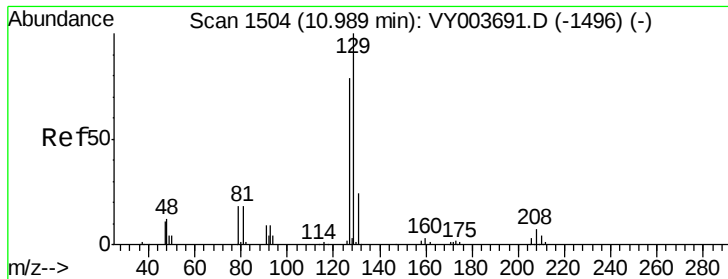
43 100

58 21.5 44.8 67.2#

57 22.2 14.8 22.2#

100 0.0 9.9 14.9#





#50

Dibromochloromethane

Concen: 0.251 ug/L

RT: 10.72 min Scan# 1460

Delta R.T. -0.27 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Instrument :

MSVOA_Y

ClientSampleId :

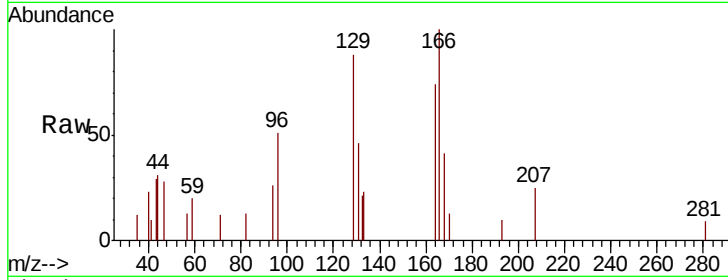
C0AD7

Tot Ion:129 Resp: 691

Ion Ratio Lower Upper

129 100

127 0.0 54.8 101.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.72

500

400

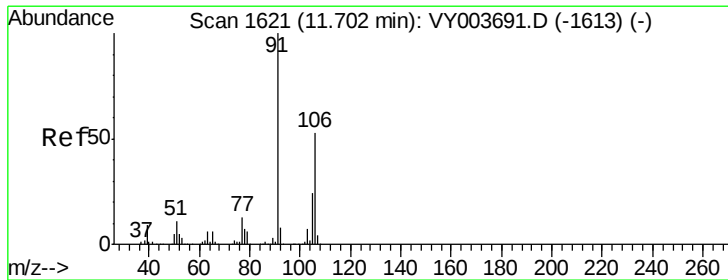
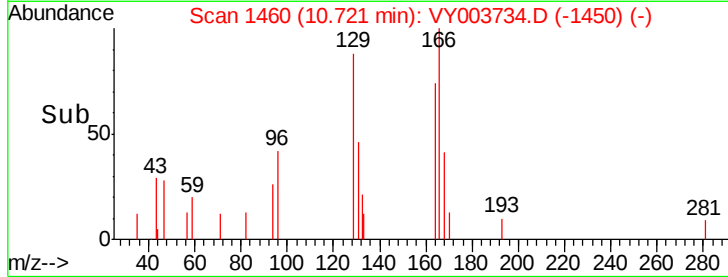
300

200

100

0

Time-->



#54

m,p-Xylene

Concen: 0.272 ug/L

RT: 11.70 min Scan# 1620

Delta R.T. -0.01 min

Lab File: VY003734.D

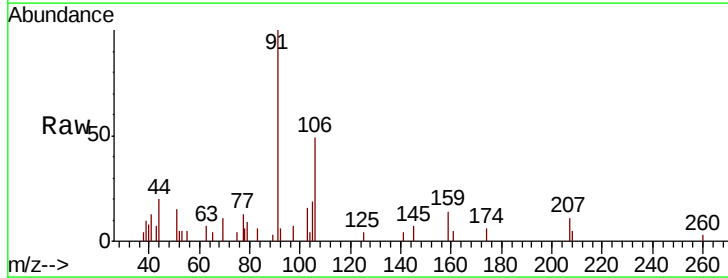
Acq: 11 Dec 2020 17:58

Tgt Ion:106 Resp: 1315

Ion Ratio Lower Upper

106 100

91 205.5 131.3 243.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0

11.70

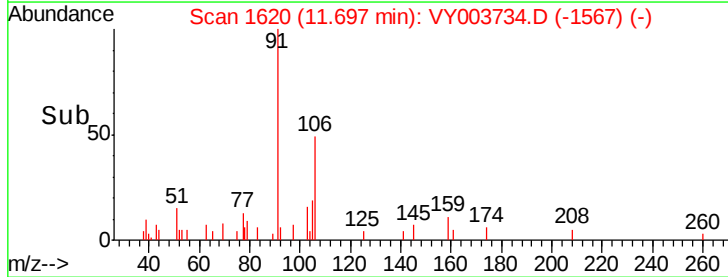
1500

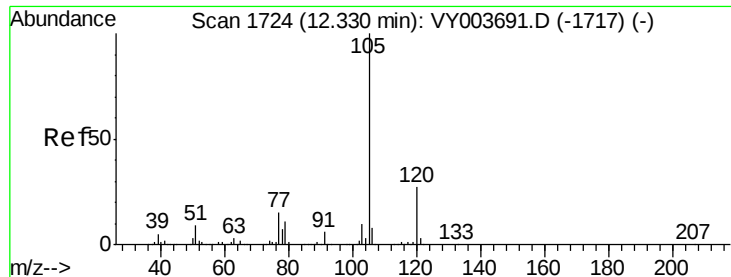
1000

500

0

Time-->





#57

Isopropylbenzene

Concen: 0.163 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Instrument :

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ClientSampleId :

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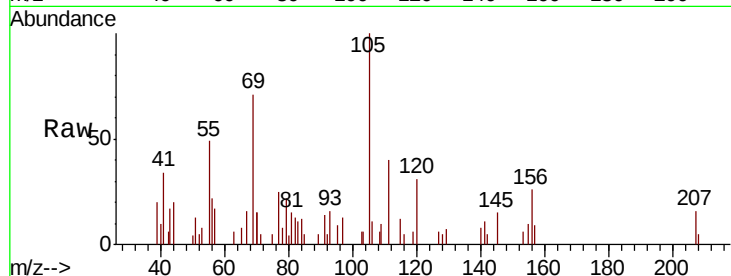
Tot Ion:105 Resp: 1969

Ion Ratio Lower Upper

105 100

120 33.0 22.3 33.5

77 34.2 11.9 17.9#

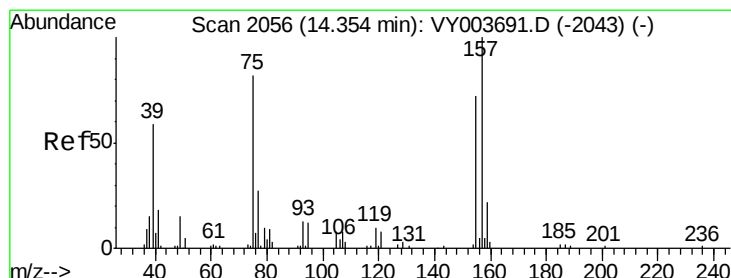
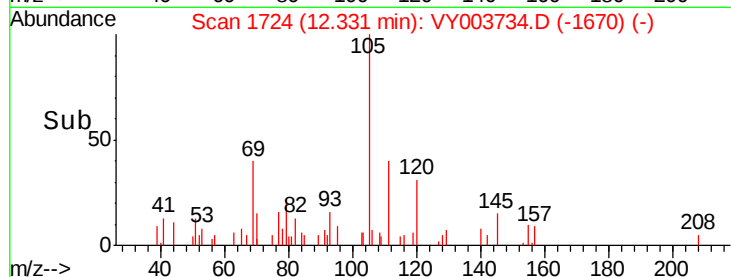
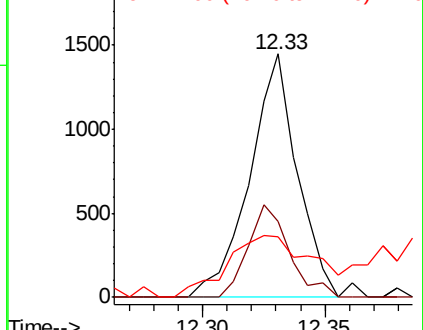


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 14.108 ug/L

RT: 14.33 min Scan# 2052

Delta R.T. -0.02 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

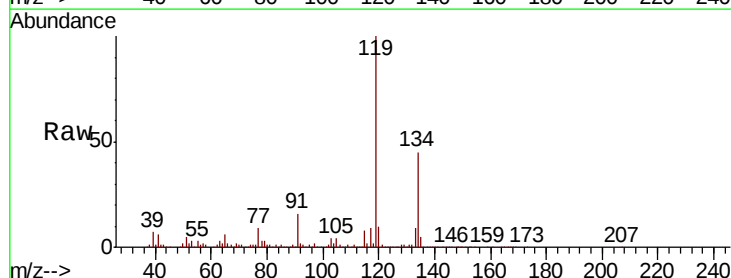
Tgt Ion: 75 Resp: 3649

Ion Ratio Lower Upper

75 100

157 0.0 101.3 151.9#

155 0.0 76.2 114.4#

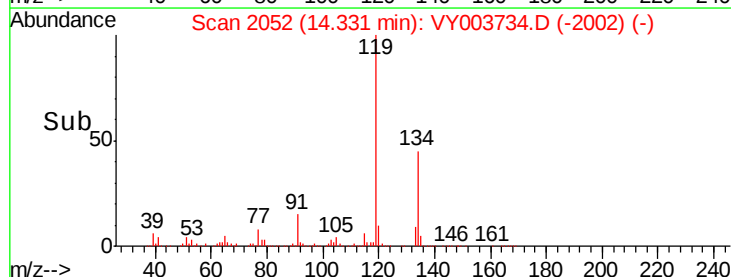
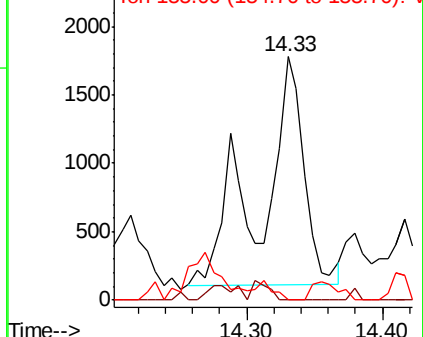


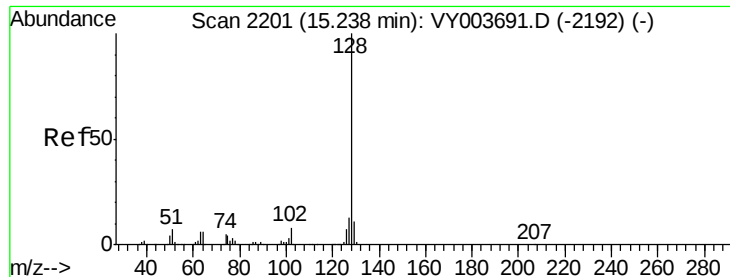
Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#69

Naphthalene

Concen: 66.691 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. -0.01 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

Instrument :

MSVOA_Y

ClientSampleId :

C0AD7

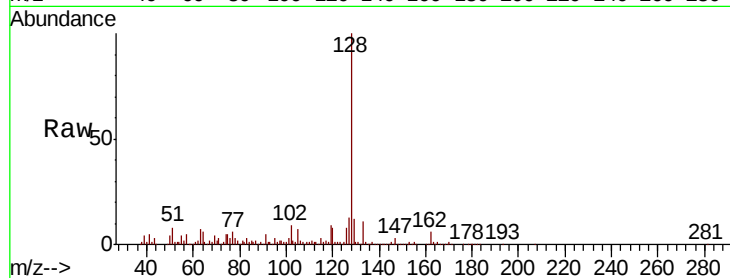
Tot Ion:128 Resp: 255316

Ion Ratio Lower Upper

128 100

129 12.0 8.7 13.1

127 13.5 10.2 15.4



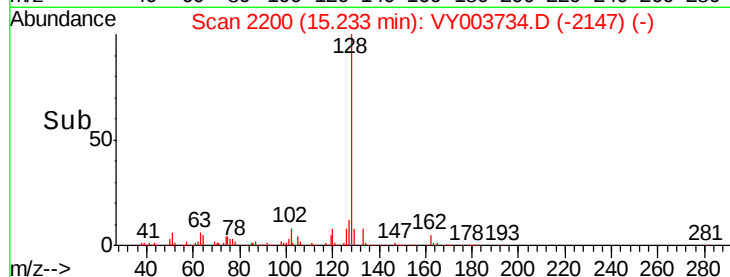
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

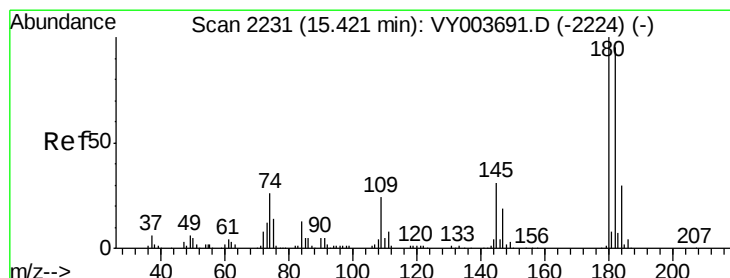
Ion 127.00 (126.70 to 127.70): V

15.23

15.23



Time-->



#70

1,2,3-Trichlorobenzene

Concen: 0.539 ug/L

RT: 15.44 min Scan# 2234

Delta R.T. 0.02 min

Lab File: VY003734.D

Acq: 11 Dec 2020 17:58

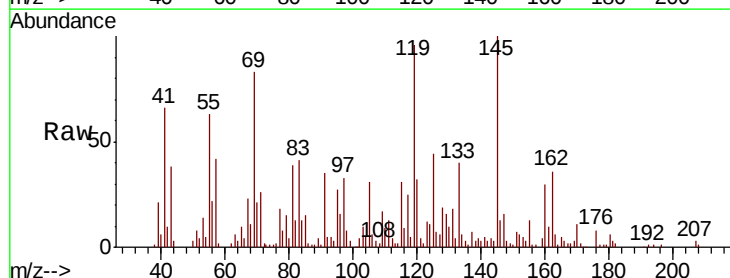
Tgt Ion:180 Resp: 899

Ion Ratio Lower Upper

180 100

182 8.0 76.9 115.3#

145 5294.8 24.2 36.4#



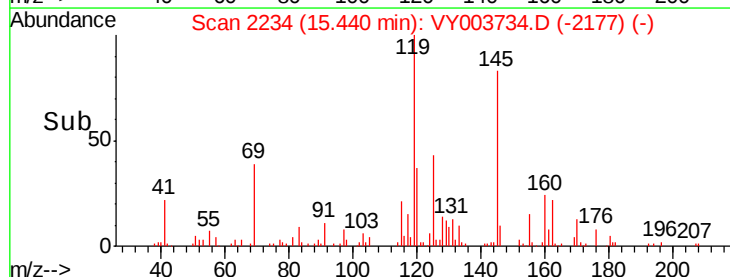
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

15.44

15.44



Time-->