

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112320\
 Data File : VY003591.D
 Acq On : 23 Nov 2020 15:19
 Operator : SY/MD
 Sample : L4824-06
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 X2R14

Manual Integrations
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 12/9/2020 6:18:10 AM

Quant Time: Dec 03 09:10:56 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL112320SMA.M

Quant Title : VOC Analysis

QLast Update : Tue Nov 24 14:47:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	223082	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	203311	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	105040	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	75317	23.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.72%
7) Chloroethane-d5	2.77	69	63413	24.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.20%
11) 1,1-Dichloroethene-d2	3.85	63	146243	21.92	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.68%
21) 2-Butanone-d5	6.90	46	67100	49.83	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.66%
24) Chloroform-d	7.48	84	152789	24.21	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.84%
26) 1,2-Dichloroethane-d4	8.14	65	85477	24.48	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.92%
32) Benzene-d6	8.11	84	321052	24.82	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.28%
36) 1,2-Dichloropropane-d6	9.12	67	96389	24.52	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.08%
41) Toluene-d8	10.17	98	282293	24.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.36%
43) trans-1,3-Dichloropropene-	10.44	79	46343	24.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.40%
47) 2-Hexanone-d5	10.78	63	51162	51.24	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.48%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	85170	25.08	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.32%
66) 1,2-Dichlorobenzene-d4	13.72	152	90760	24.92	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.92	85	16305m	13.671	ug/L	
3) Chloromethane	2.12	50	31161	13.809	ug/L	94
5) Vinyl chloride	2.26	62	82907	26.079	ug/L	97
6) Bromomethane	2.66	94	34575	14.857	ug/L	98
8) Chloroethane	2.80	64	19018	9.569	ug/L	97
9) Trichlorofluoromethane	3.13	101	23796	10.252	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.90	101	65382	21.474	ug/L	96
12) 1,1-Dichloroethene	3.88	96	51389	15.869	ug/L	96
15) Methyl Acetate	4.48	43	57522	24.108	ug/L	100
16) Methylene chloride	4.72	84	79501	18.223	ug/L	98
18) Methyl tert-butyl Ether	5.22	73	209202	41.005	ug/L	99
22) 2-Butanone	6.99	43	150011	98.350	ug/L	98
25) Chloroform	7.50	83	115398	19.927	ug/L	97
29) Cyclohexane	7.78	56	103671	20.762	ug/L	100
33) Benzene	8.16	78	550028	41.224	ug/L	100
34) Trichloroethene	8.94	95	175375	53.014	ug/L	94
42) Toluene	10.24	91	713937	50.928	ug/L	100

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL112320SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 24 14:47:44 2020
 Response via : Initial Calibration

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

45) 1,1,2-Trichloroethane	10.64	97	54150	19.805	ug/L	97
46) Tetrachloroethene	10.72	164	29864	10.301	ug/L	98
51) Chlorobenzene	11.51	112	114582	12.846	ug/L	99
52) Ethylbenzene	11.59	91	367033	25.660	ug/L	98
53) m,p-Xylene	11.70	106	175946	31.873	ug/L	95
54) o-Xylene	12.03	106	121594	26.062	ug/L	97
55) Styrene	12.04	104	99876	10.946	ug/L	97
57) 1,1,2,2-Tetrachloroethane	12.58	83	39760	12.079	ug/L #	95
59) Bromoform	12.20	173	25902	11.592	ug/L	97
60) Isopropylbenzene	12.33	105	213759	20.164	ug/L	100
63) 1,2,4-Trimethylbenzene	13.12	105	210160	25.428	ug/L	100
64) 1,3-Dichlorobenzene	13.36	146	137596	20.436	ug/L	98
65) 1,4-Dichlorobenzene	13.44	146	70223	10.017	ug/L	98
70) 1,2,4-trichlorobenzene	15.00	180	61958	19.717	ug/L	98
72) 1,2,3-Trichlorobenzene	15.42	180	74021	31.168	ug/L	99

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

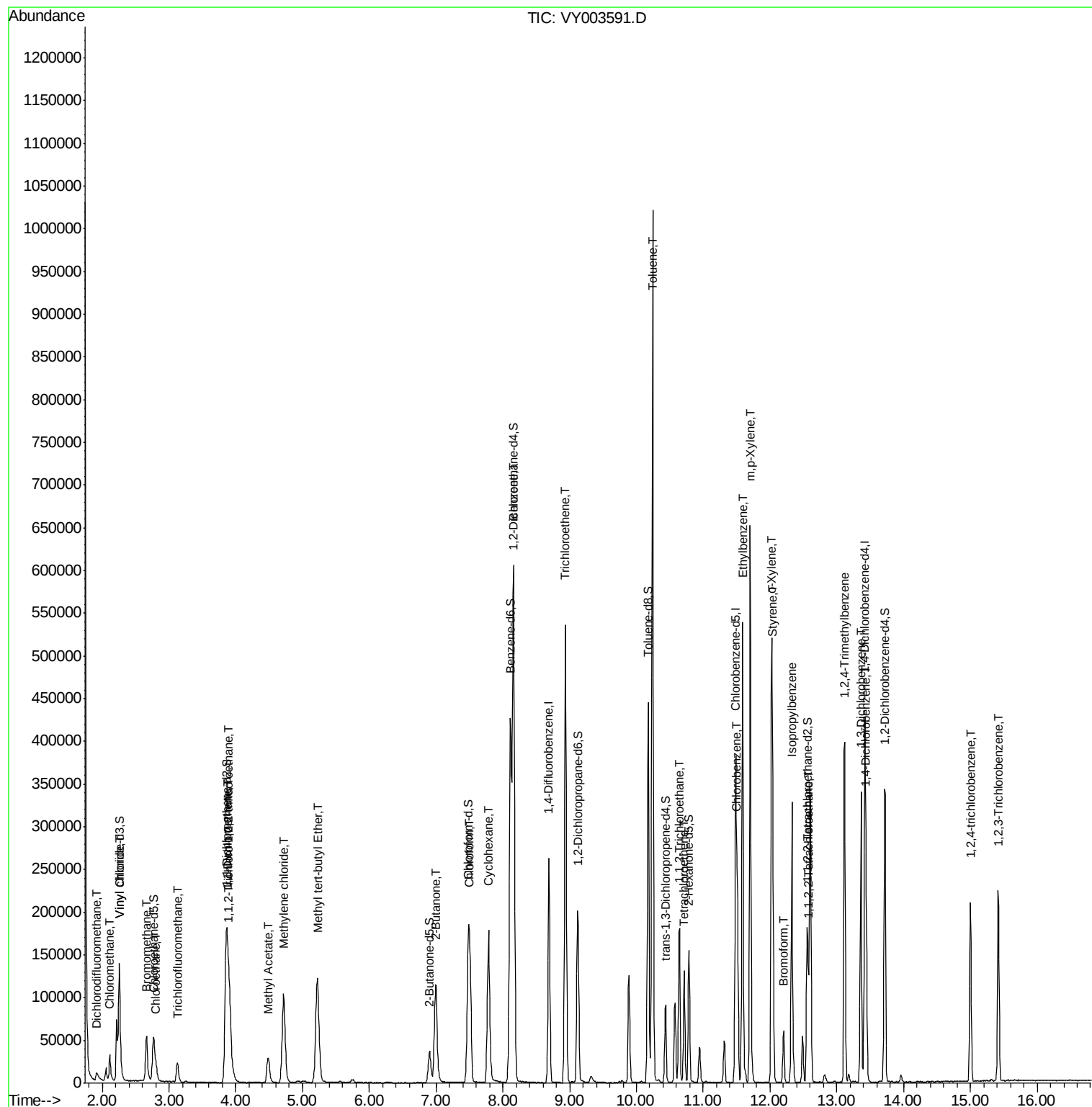
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Data File : VY003591.D
Acq On : 23 Nov 2020 15:19
Operator : SY/MD
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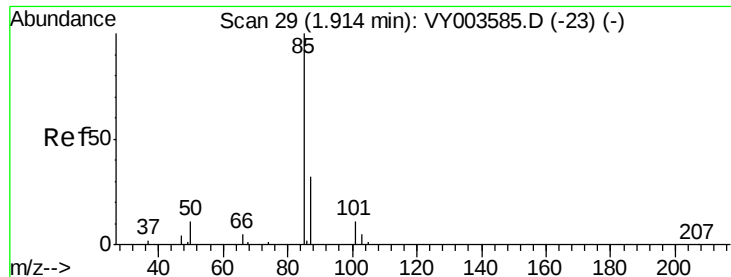
Instrument :
MSVOA_Y
ClientSampled :
X2R14

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL112320SMA.M
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#2

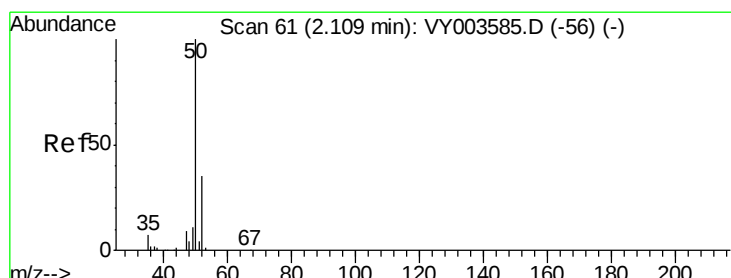
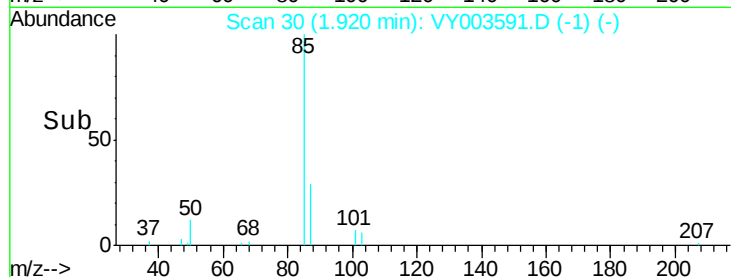
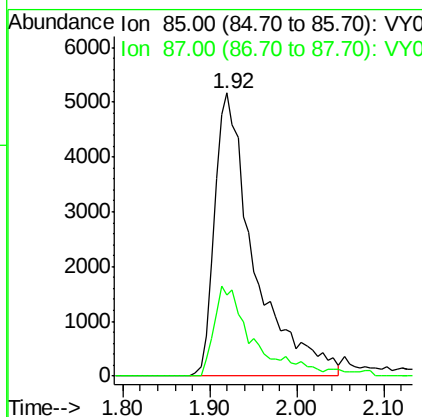
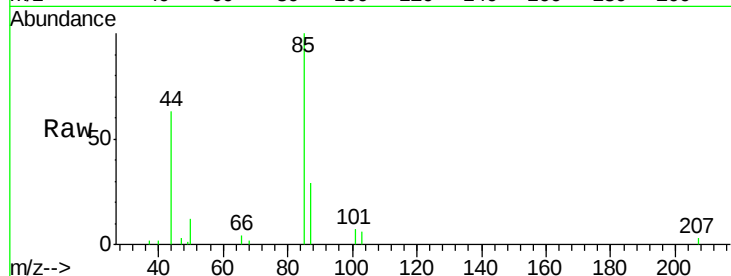
Dichlorodifluoromethane
Concen: 13.671 ug/L m
RT: 1.92 min Scan# 30
Delta R.T. 0.01 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
X2R14

Tot Ion: 85 Resp: 16305
Ion Ratio Lower Upper
85 100
87 0.3 27.2 40.8#

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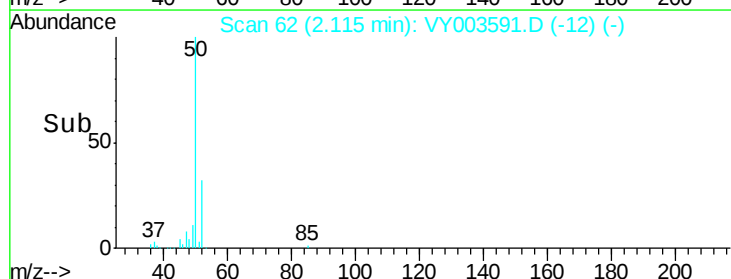
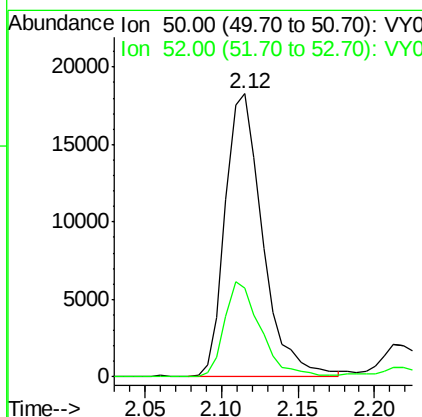
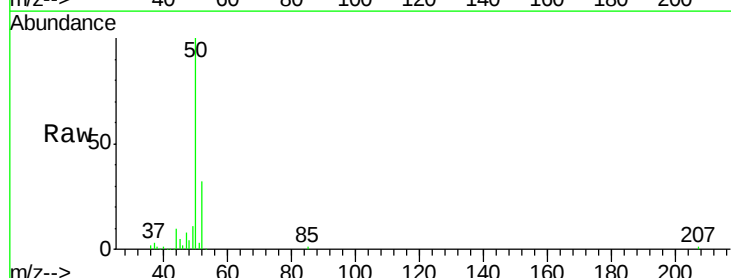
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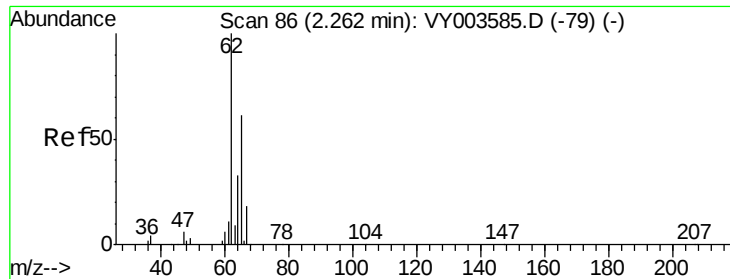


#3

Chloromethane
Concen: 13.809 ug/L
RT: 2.12 min Scan# 62
Delta R.T. 0.01 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion: 50 Resp: 31161
Ion Ratio Lower Upper
50 100
52 31.6 24.4 45.4





#5

Vinyl chloride

Concen: 26.079 ug/L

RT: 2.26 min Scan# 86

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampled :

X2R14

Tot Ion: 62 Resp: 82907

Ion Ratio Lower Upper

62 100

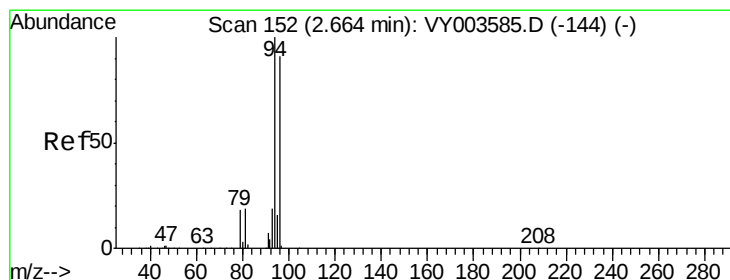
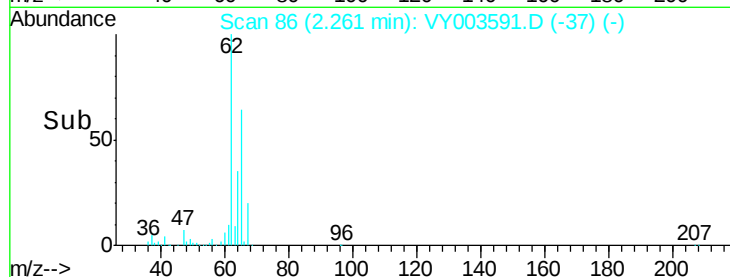
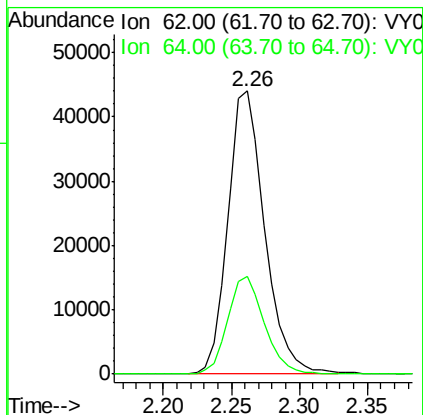
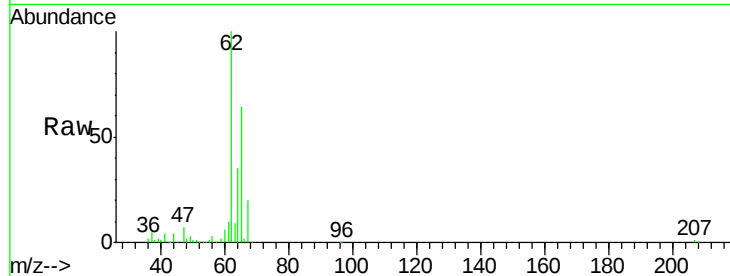
64 34.5 23.0 42.6

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#6

Bromomethane

Concen: 14.857 ug/L

RT: 2.66 min Scan# 152

Delta R.T. -0.00 min

Lab File: VY003591.D

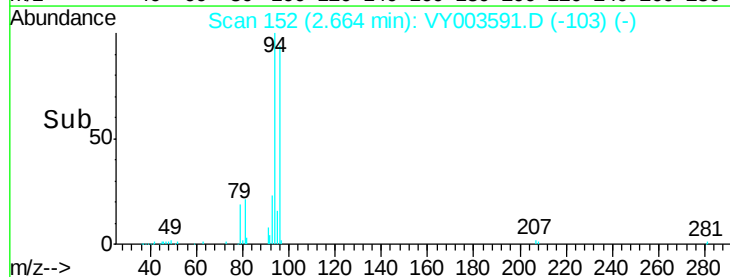
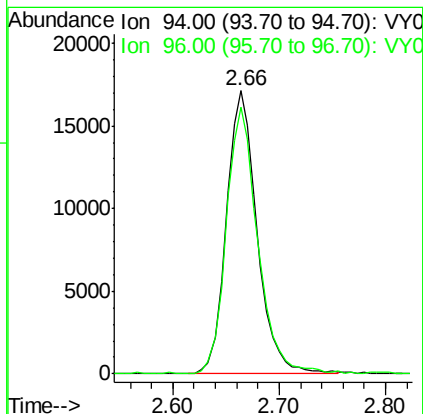
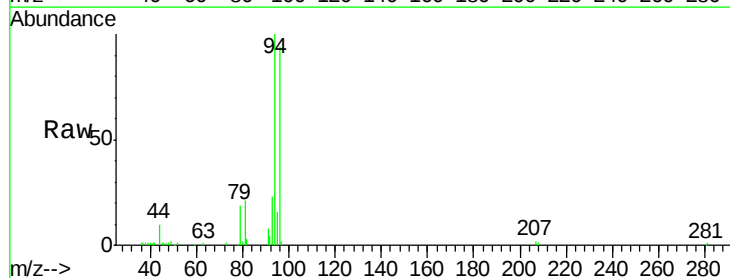
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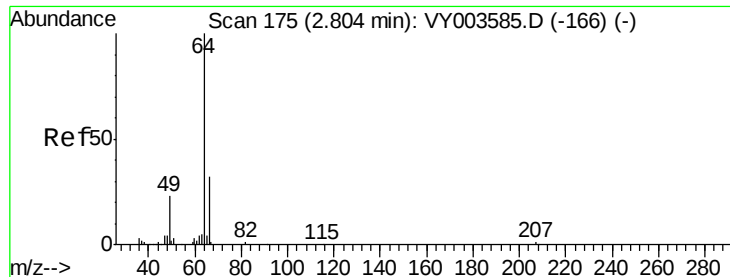
Tgt Ion: 94 Resp: 34575

Ion Ratio Lower Upper

94 100

96 94.3 64.5 119.7





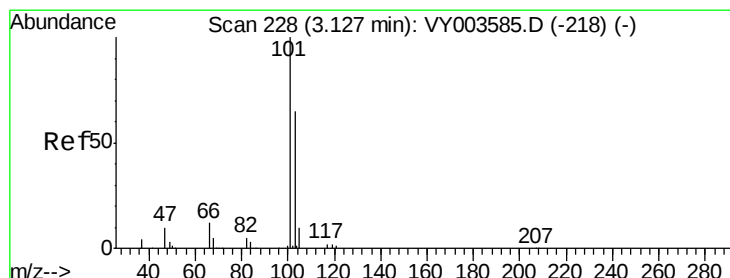
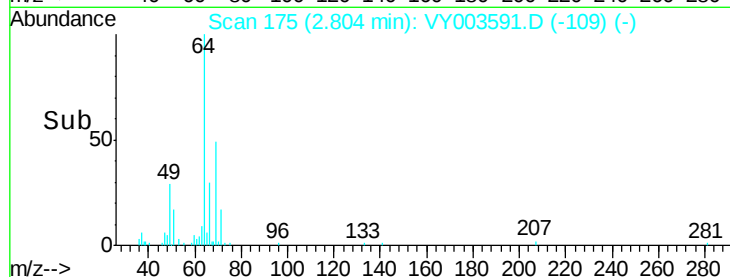
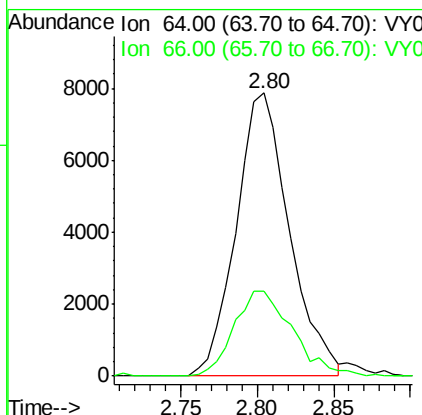
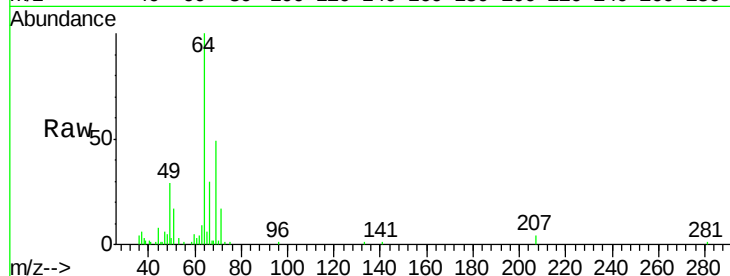
#8
Chloroethane
Concen: 9.569 ug/L
RT: 2.80 min Scan# 175
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
X2R14

Tot Ion	64	Resp	19018
Ion	Ratio	Lower	Upper
64	100		
66	30.1	22.2	41.2

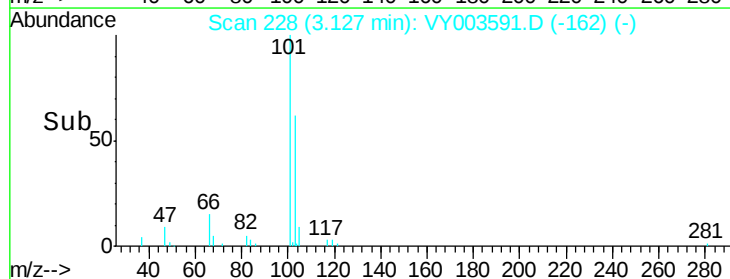
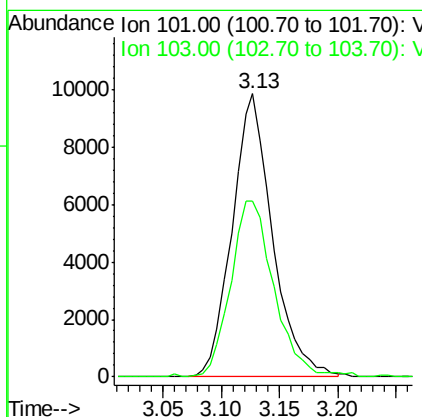
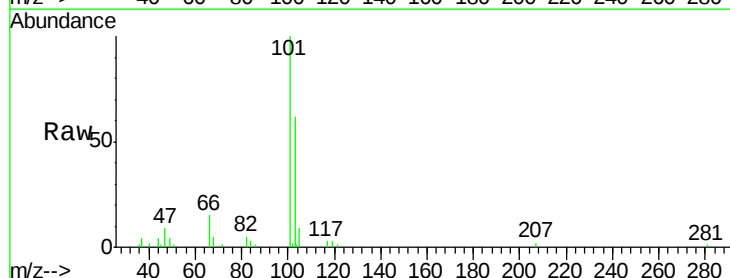
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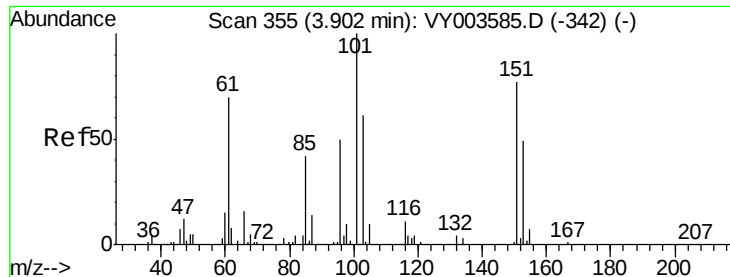
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#9
Trichlorofluoromethane
Concen: 10.252 ug/L
RT: 3.13 min Scan# 228
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion	101	Resp	23796
Ion	Ratio	Lower	Upper
101	100		
103	65.8	54.0	81.0





#10

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

Concen: 21.474 ug/L

RT: 3.90 min Scan# 355

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Instrument :

MSVOA_Y

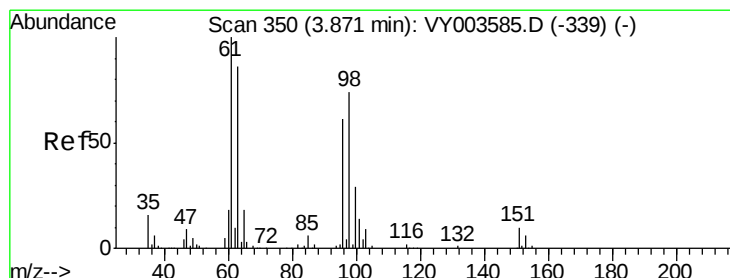
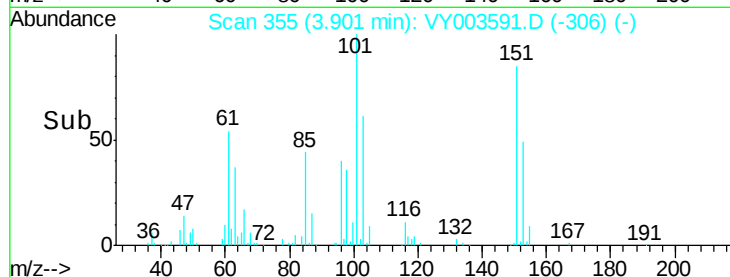
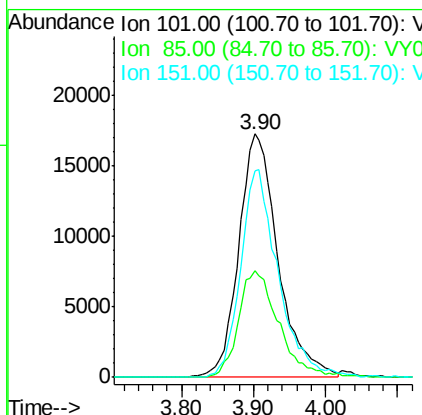
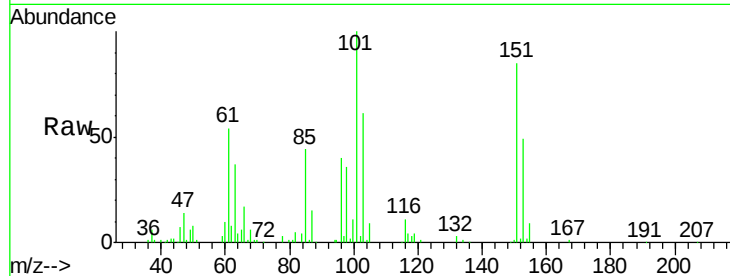
ClientSampled :

X2R14

Tot Ion:	101	Resp:	65382
Ion Ratio	Lower	Upper	
101	100		
85	44.1	34.1	51.1
151	80.2	60.6	90.8

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#12

1,1-Dichloroethene

Concen: 15.869 ug/L

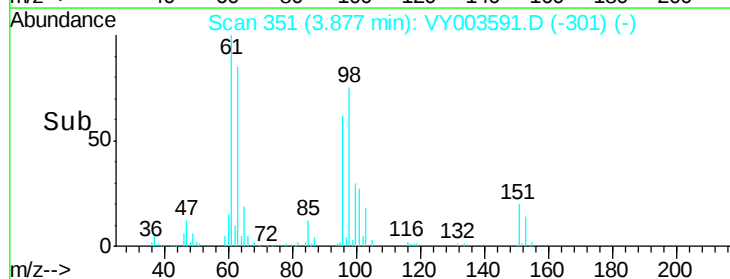
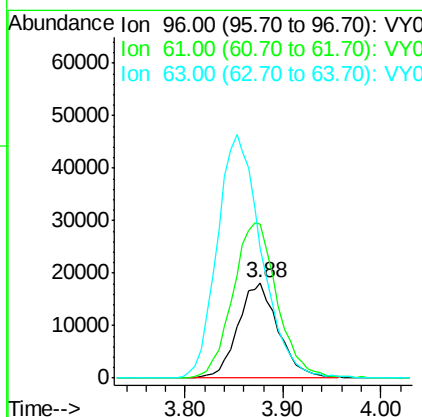
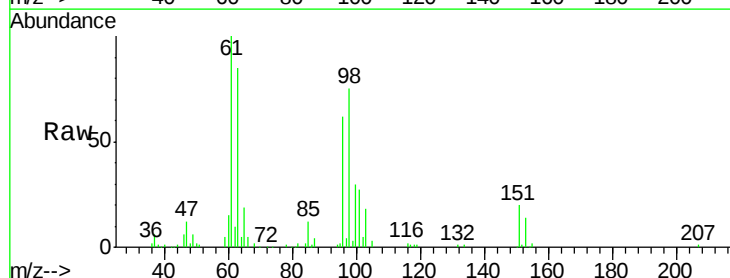
RT: 3.88 min Scan# 351

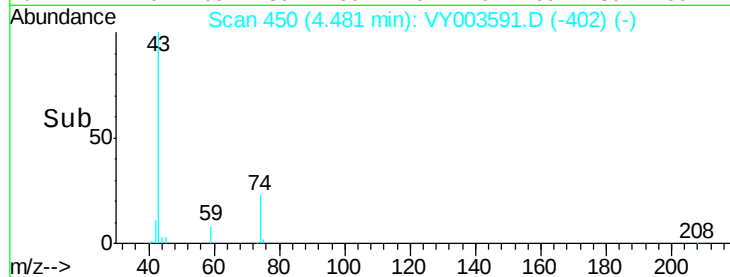
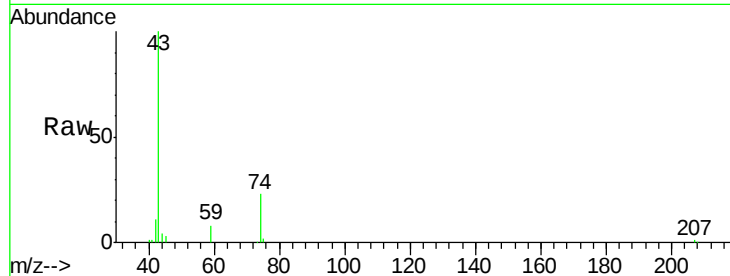
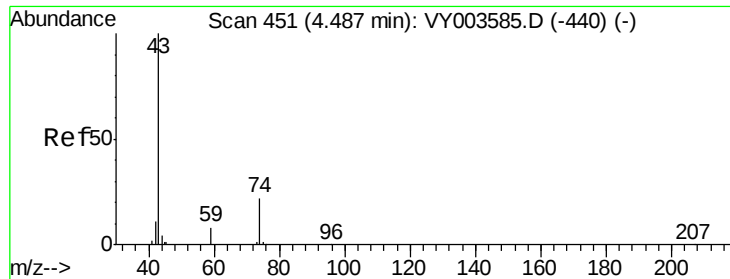
Delta R.T. 0.01 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Tgt Ion:	96	Resp:	51389
Ion Ratio	Lower	Upper	
96	100		
61	161.3	114.5	212.7
63	136.9	100.8	187.2





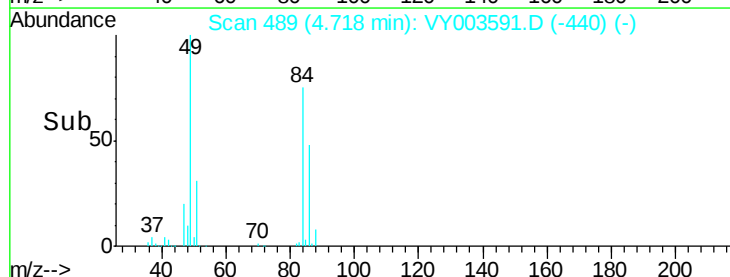
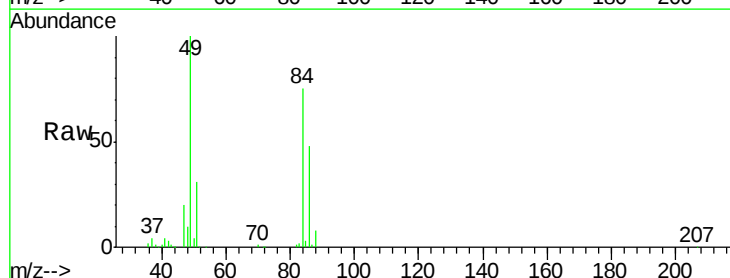
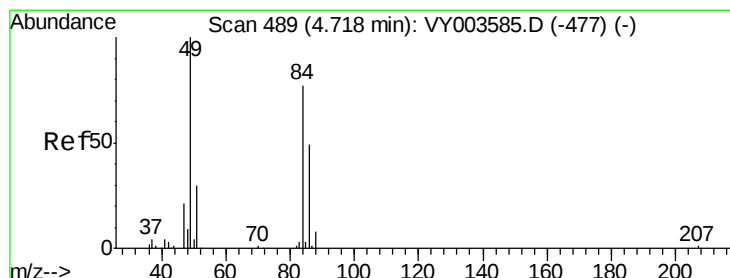
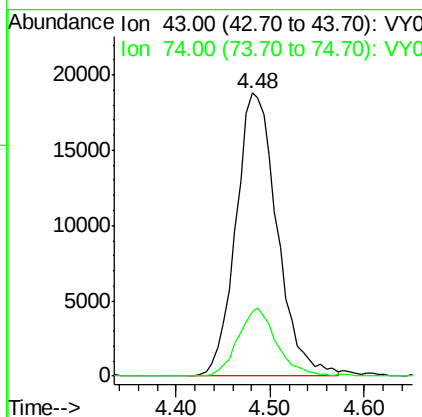
#15
Methyl Acetate
Concen: 24.108 ug/L
RT: 4.48 min Scan# 450
Delta R.T. -0.01 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tot Ion: 43 Resp: 57522
Ion Ratio Lower Upper
43 100
74 22.4 18.0 27.0

Instrument :
MSVOA_Y
ClientSampled :
X2R14

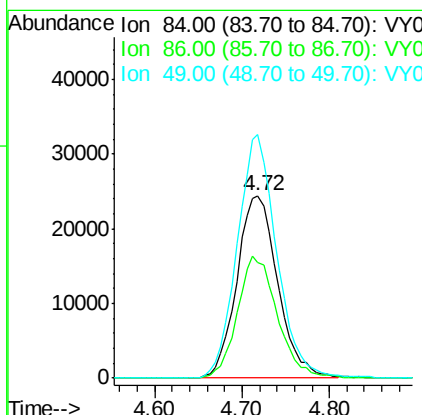
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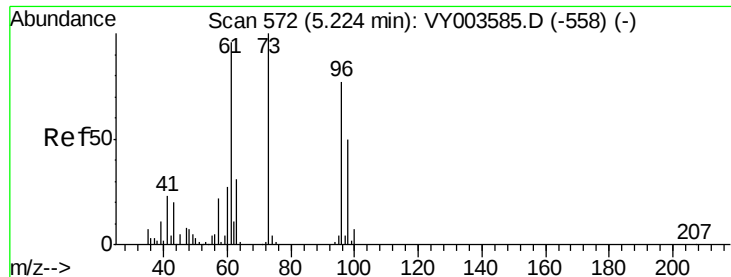
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#16
Methylene chloride
Concen: 18.223 ug/L
RT: 4.72 min Scan# 489
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion: 84 Resp: 79501
Ion Ratio Lower Upper
84 100
86 63.6 45.2 84.0
49 133.4 91.5 169.9





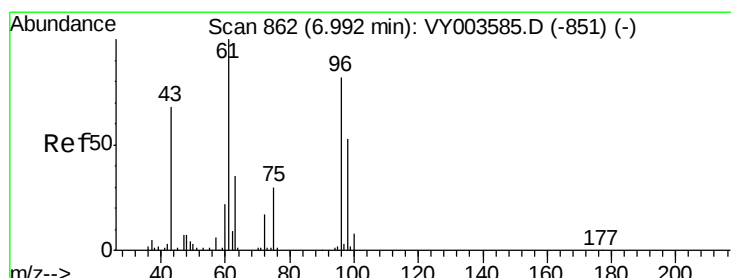
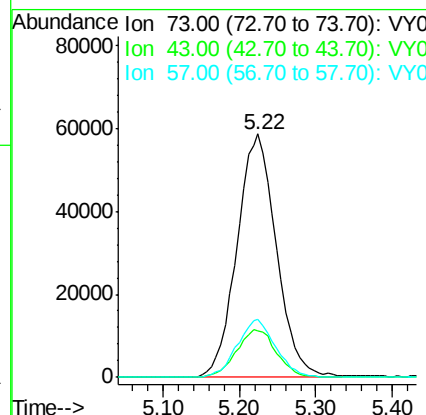
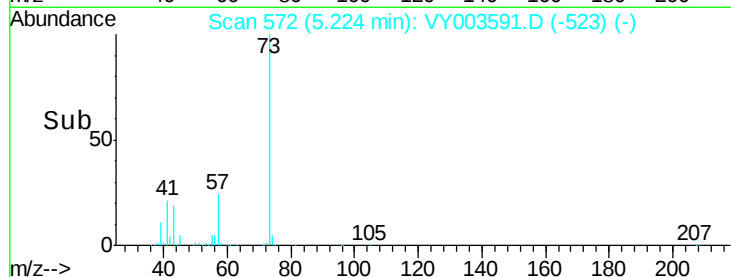
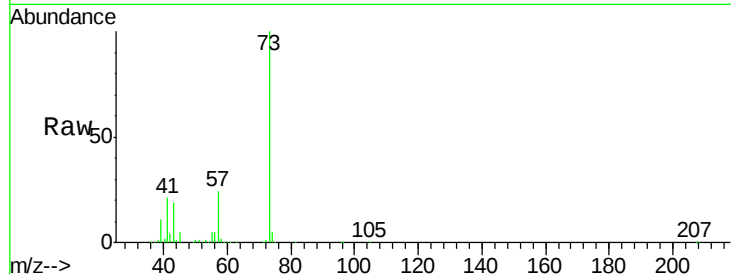
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Methvl tert-butvl Ether
Concen: 41.005 ug/L
RT: 5.22 min Scan# 572
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
X2R14

Tot Ion	Ratio	Lower	Upper
73	100		
43	20.0	15.5	23.3
57	23.3	18.2	27.4

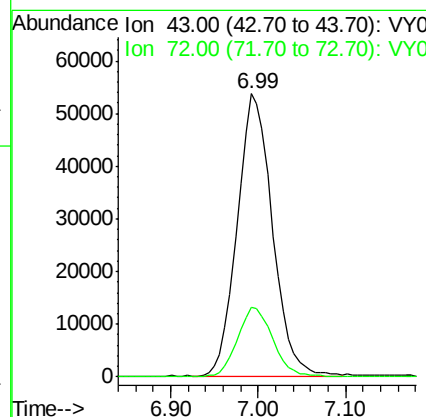
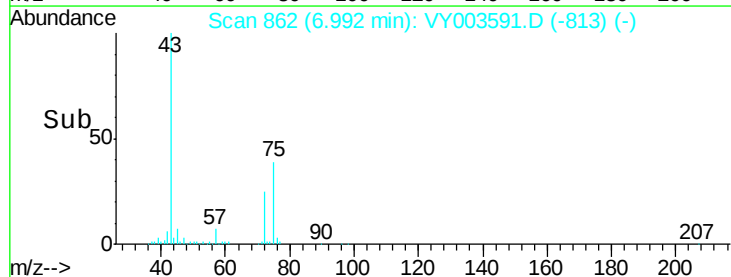
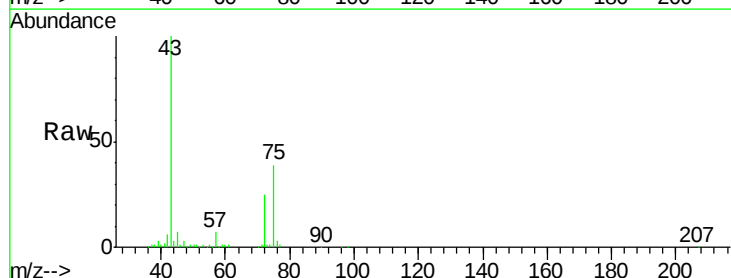
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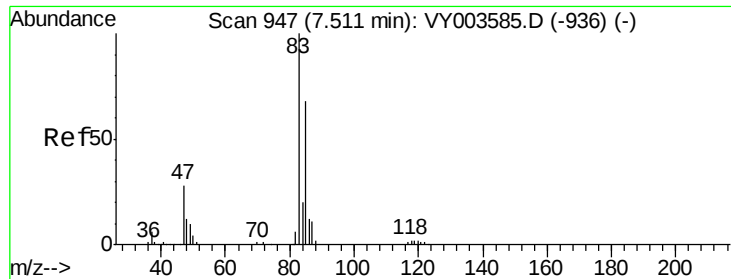
apatel
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#22
2-Butanone
Concen: 98.350 ug/L
RT: 6.99 min Scan# 862
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.8	13.0	38.9





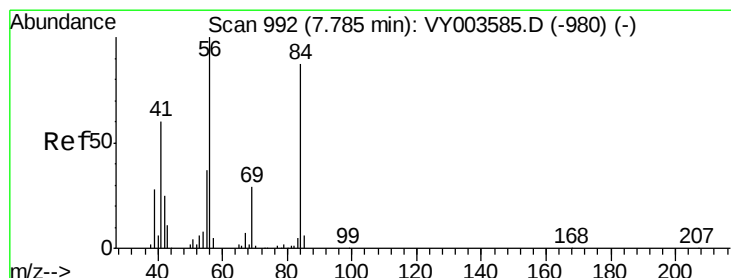
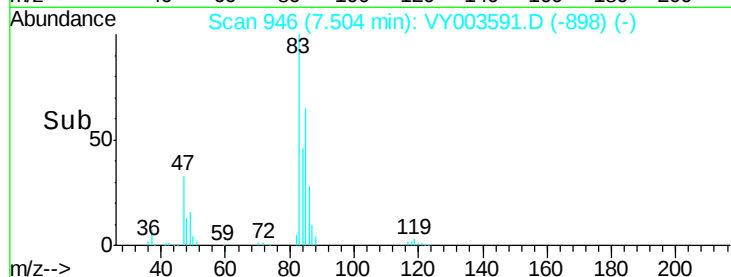
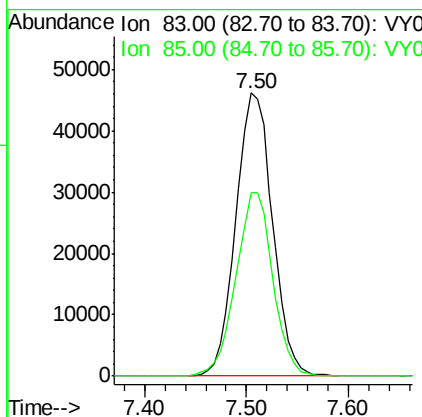
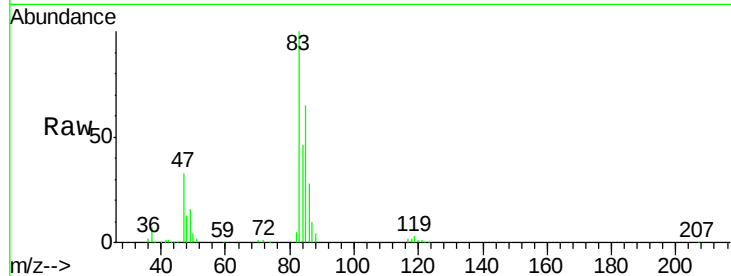
#25
Chloroform
Concen: 19.927 ug/L
RT: 7.50 min Scan# 946
Delta R.T. -0.01 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampled :
X2R14

Tot Ion	83	Resp	115398
Ion Ratio	100	Lower	Upper
85	65.0	47.4	88.0

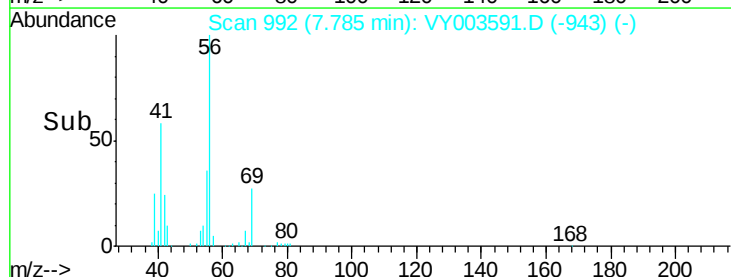
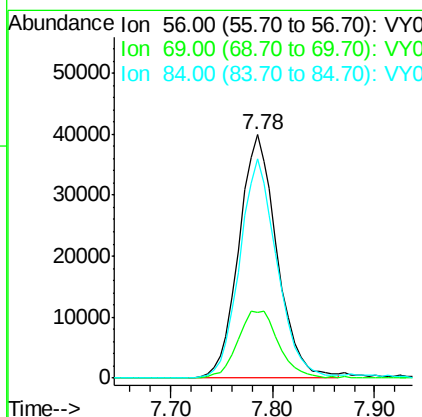
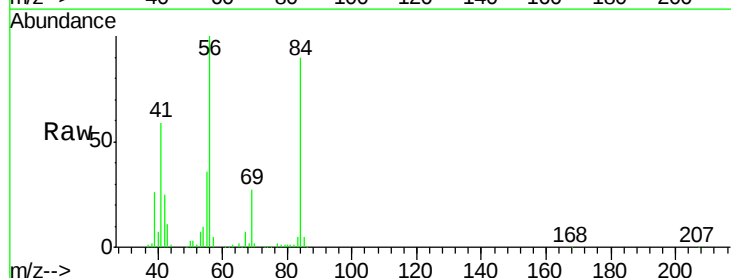
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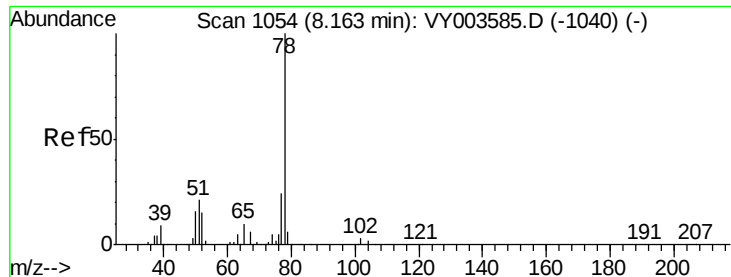
apatel
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#29
Cyclohexane
Concen: 20.762 ug/L
RT: 7.78 min Scan# 992
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion	56	Resp	103671
Ion Ratio	100	Lower	Upper
69	29.6	23.3	34.9
84	88.3	70.6	105.8





#33

Benzene

Concen: 41.224 ug/L

RT: 8.16 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Instrument :

MSVOA_Y

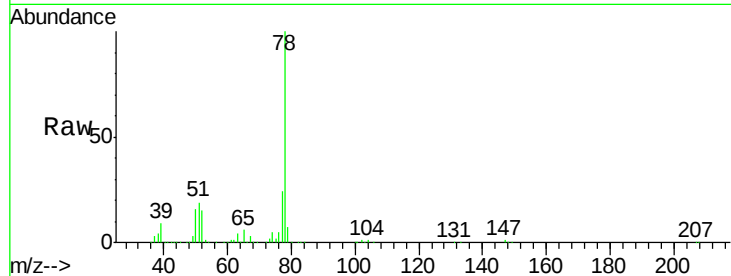
ClientSampled :

X2R14

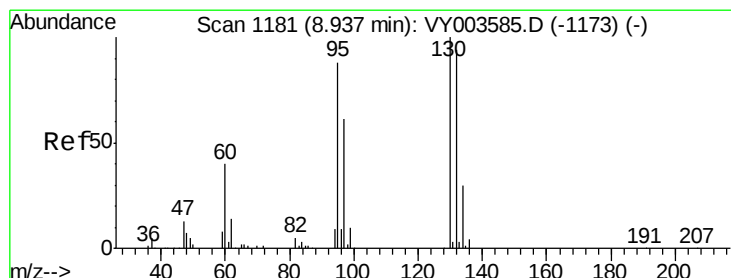
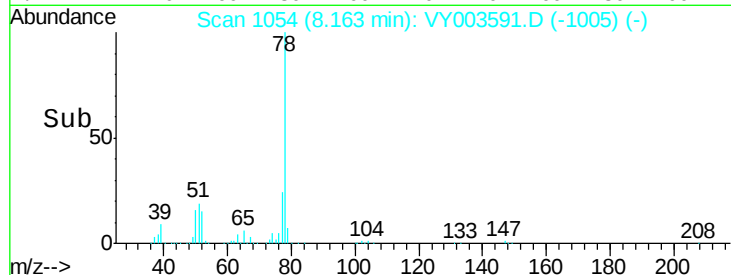
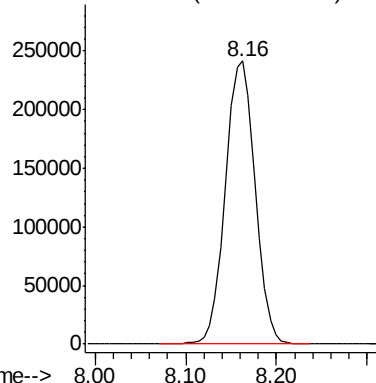
Tgt Ion: 78 Resp: 550028

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Abundance Ion 78.00 (77.70 to 78.70): VY0



#34

Trichloroethene

Concen: 53.014 ug/L

RT: 8.94 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Tgt Ion: 95 Resp: 175375

Ion	Ratio	Lower	Upper
95	100		
97	63.3	48.8	90.6
132	103.8	74.9	139.1
130	106.3	79.4	147.4

95 100

97 63.3 48.8 90.6

132 103.8 74.9 139.1

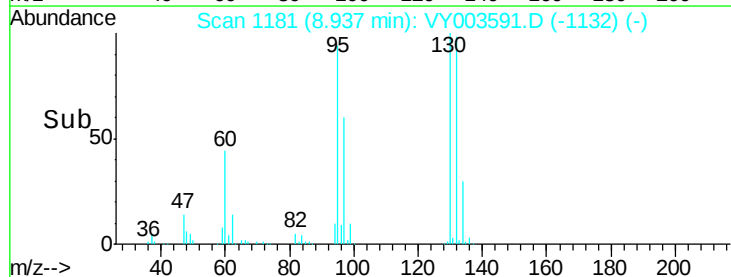
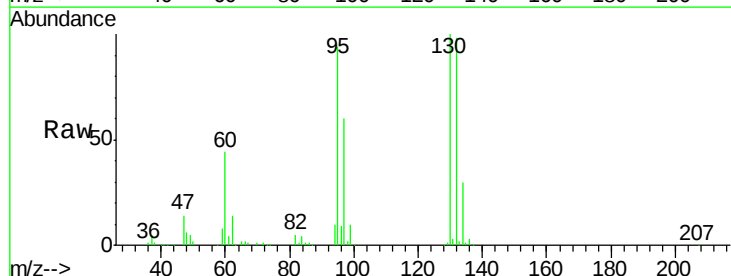
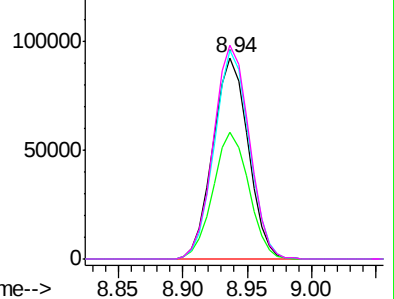
130 106.3 79.4 147.4

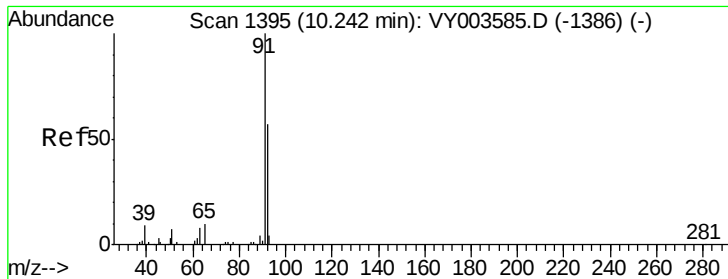
Abundance Ion 95.00 (94.70 to 95.70): VY0

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





#42

Toluene

Concen: 50.928 ug/L

RT: 10.24 min Scan# 1395

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

X2R14

Tot Ion: 91 Resp: 713937

Ion Ratio Lower Upper

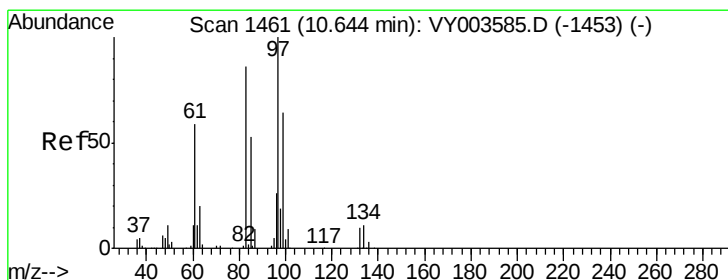
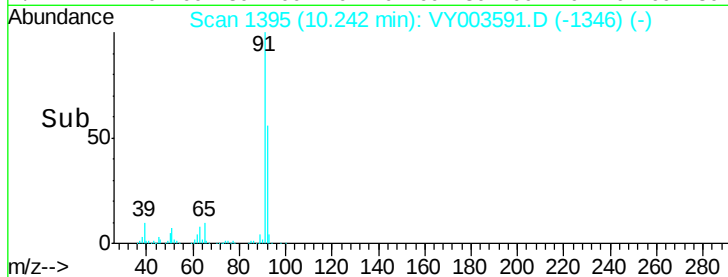
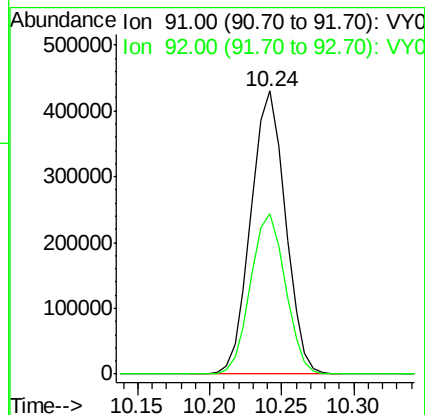
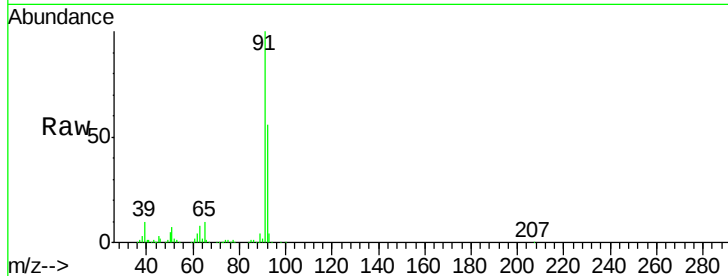
91 100

92 56.5 39.6 73.6

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#45

1,1,2-Trichloroethane

Concen: 19.805 ug/L

RT: 10.64 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Tgt Ion: 97 Resp: 54150

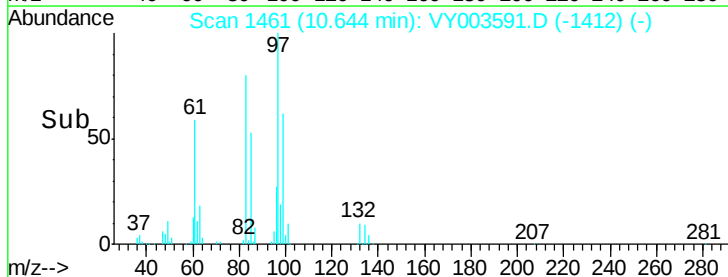
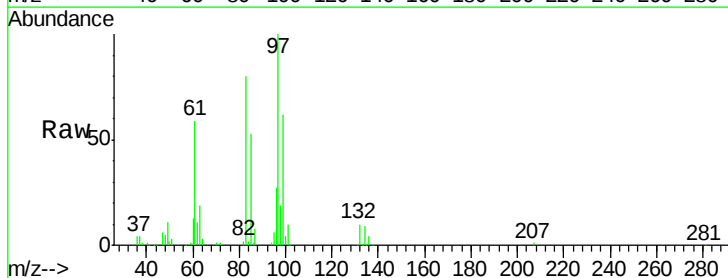
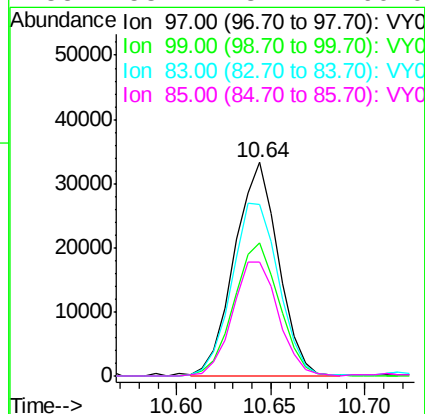
Ion Ratio Lower Upper

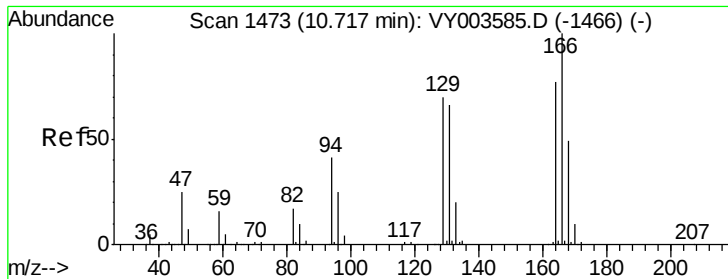
97 100

99 62.4 44.9 83.5

83 80.2 59.8 111.1

85 53.1 37.2 69.0





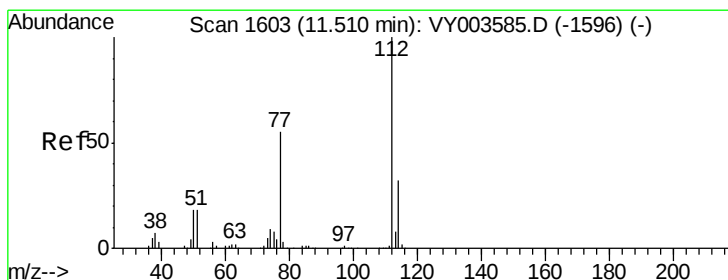
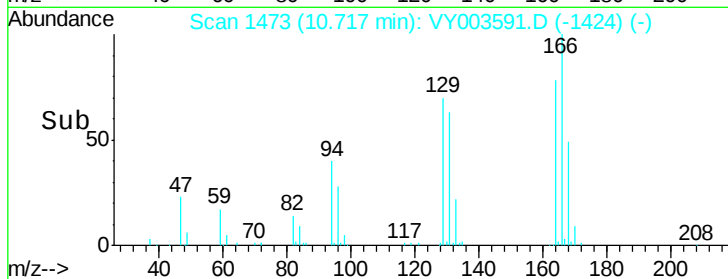
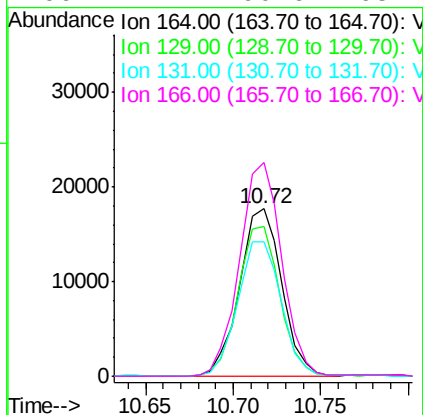
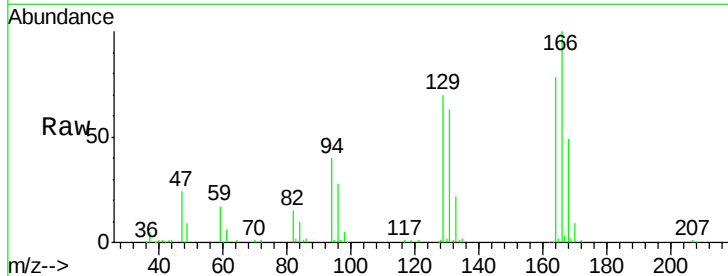
#46
Tetrachloroethene
Concen: 10.301 ug/L
RT: 10.72 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
X2R14

Tot Ion	164	Resp	29864
Ion	Ratio	Lower	Upper
164	100		
129	89.8	63.5	117.9
131	80.5	59.6	110.6
166	127.7	90.6	168.2

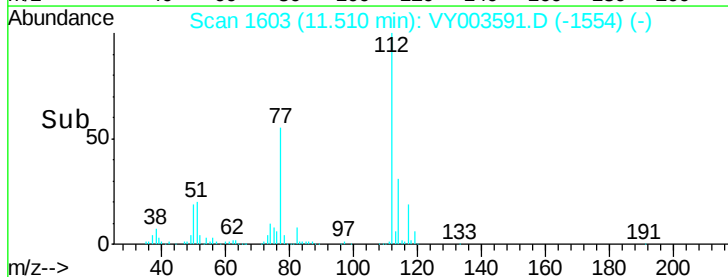
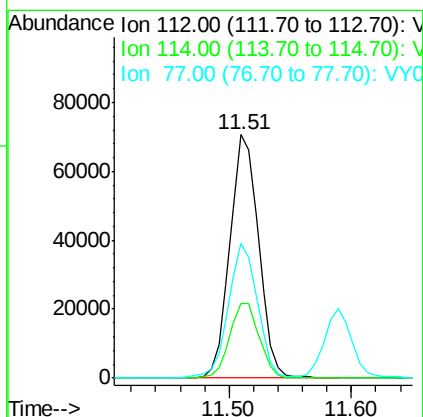
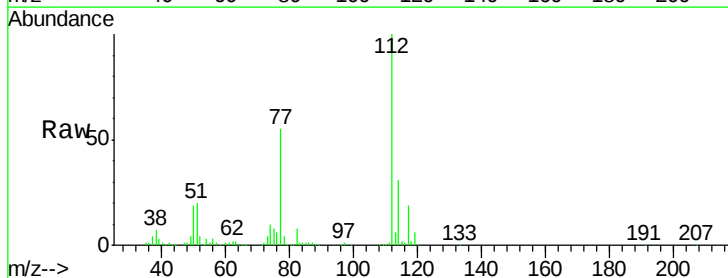
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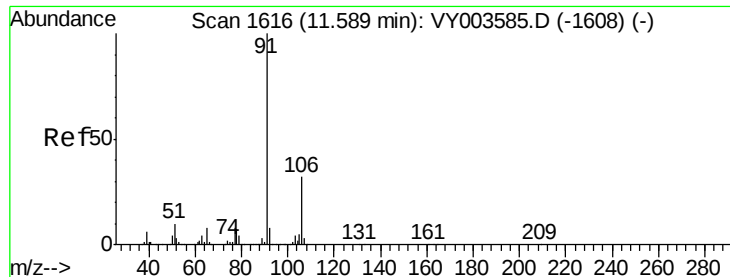
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#51
Chlorobenzene
Concen: 12.846 ug/L
RT: 11.51 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion	112	Resp	114582
Ion	Ratio	Lower	Upper
112	100		
114	30.6	22.4	41.6
77	55.3	44.2	66.2





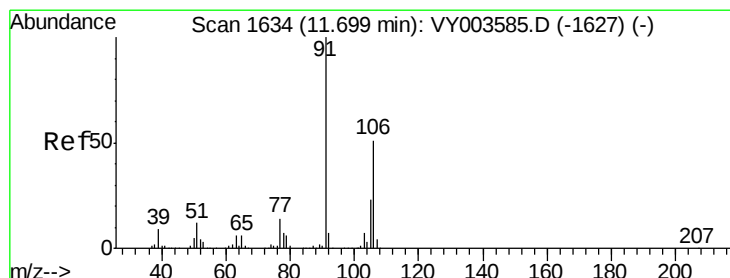
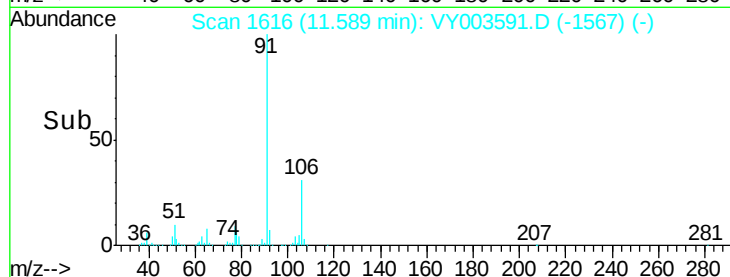
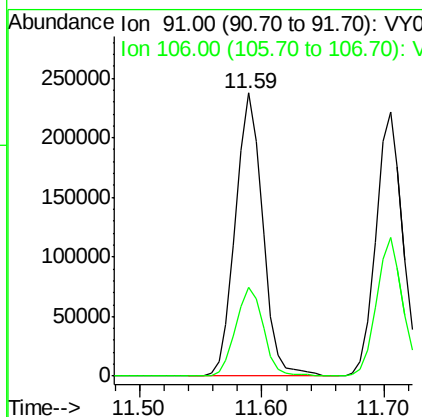
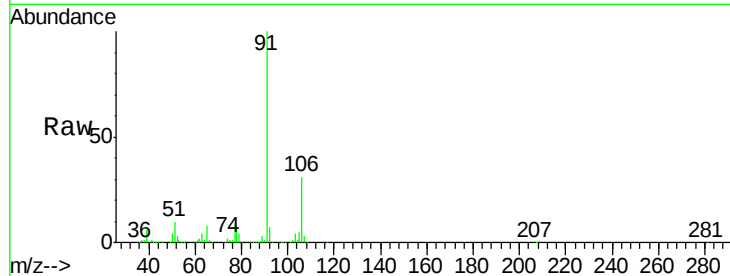
#52
Ethylbenzene
Concen: 25.660 ug/L
RT: 11.59 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampled :
X2R14

Tot Ion: 91 Resp: 367033
Ion Ratio Lower Upper
91 100
106 31.5 22.7 42.1

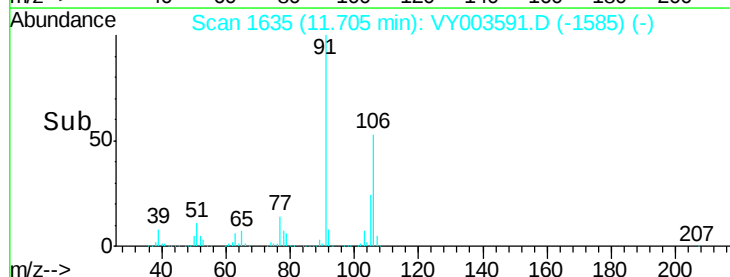
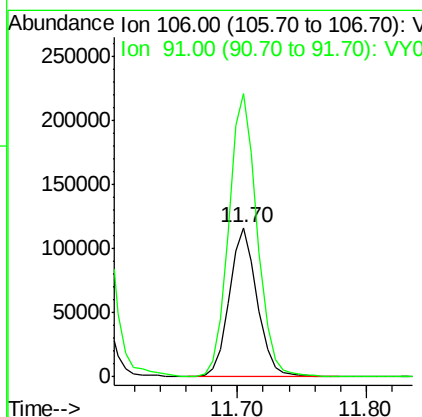
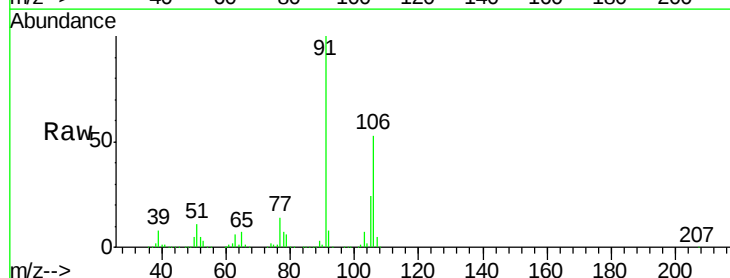
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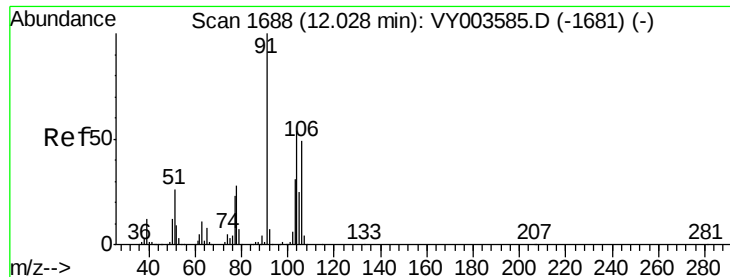
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#53
m,p-Xylene
Concen: 31.873 ug/L
RT: 11.70 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion: 106 Resp: 175946
Ion Ratio Lower Upper
106 100
91 189.8 138.2 256.6





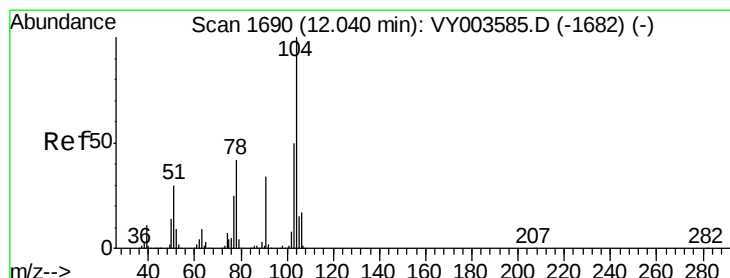
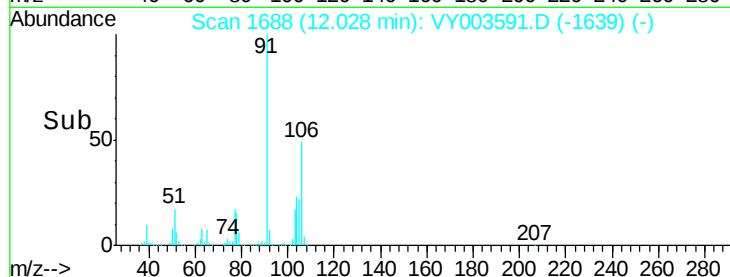
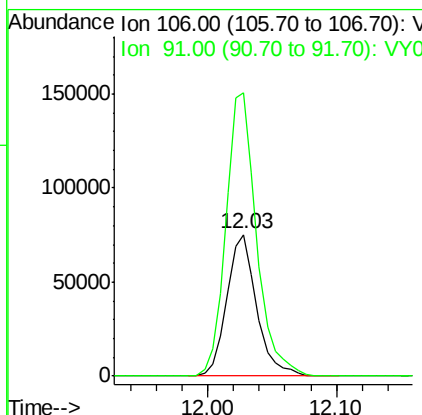
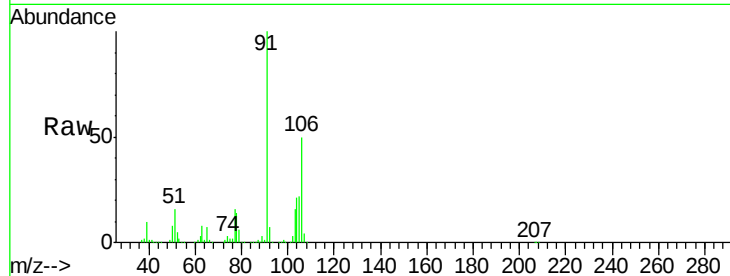
#54
o-Xylene
Concen: 26.062 ug/L
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
X2R14

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		121594		
91	200.1	143.2	266.0		

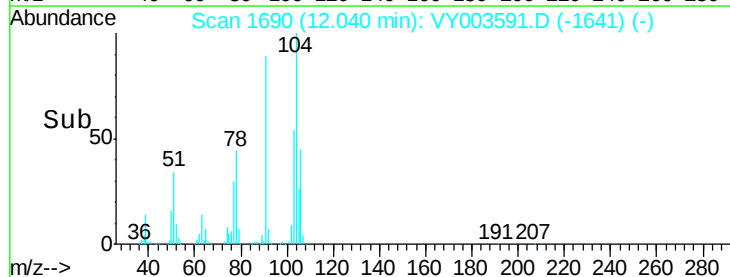
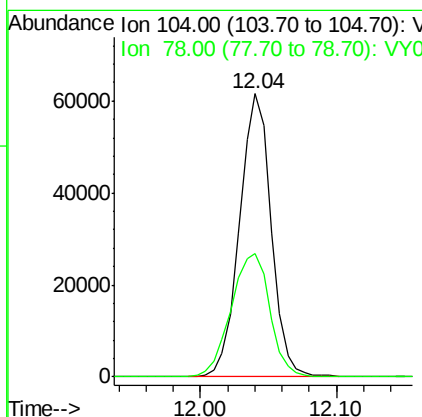
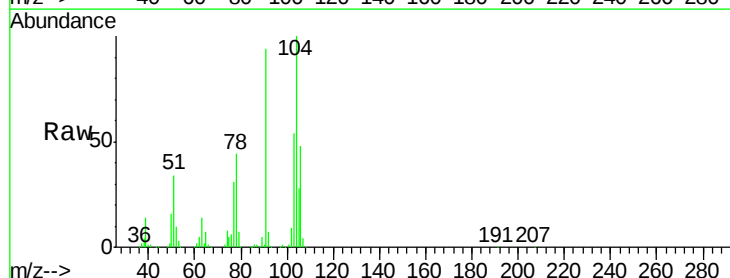
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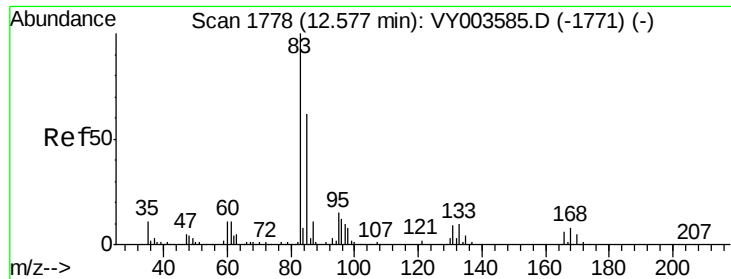
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#55
Styrene
Concen: 10.946 ug/L
RT: 12.04 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VY003591.D
Acq: 23 Nov 2020 15:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		99876		
78	43.8	29.5	54.7		





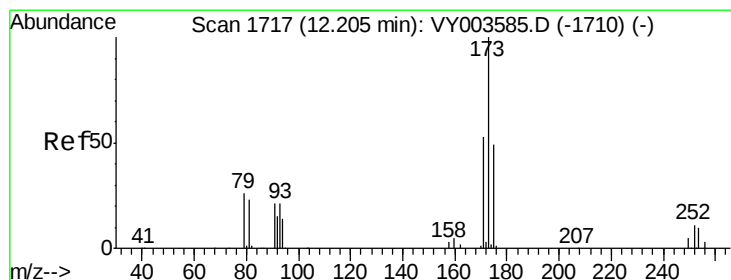
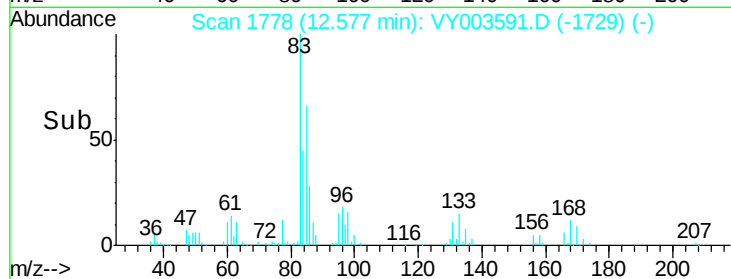
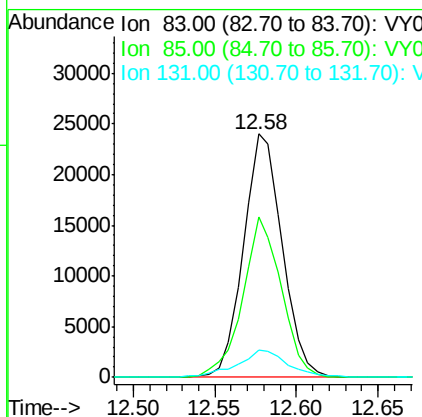
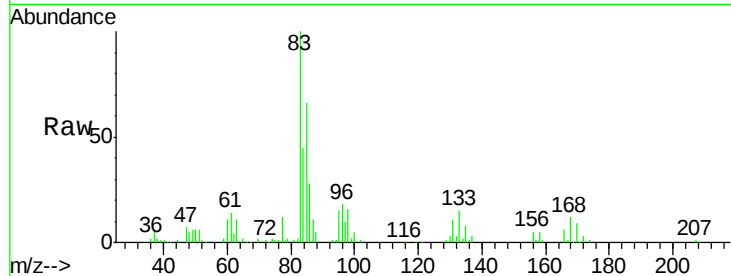
#57
 1,1,2,2-Tetrachloroethane
 Concen: 12.079 ug/L
 RT: 12.58 min Scan# 1778
 Delta R.T. -0.00 min
 Lab File: VY003591.D
 Acq: 23 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampled :
 X2R14

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.7	43.5	80.9
131	11.3	7.3	10.9

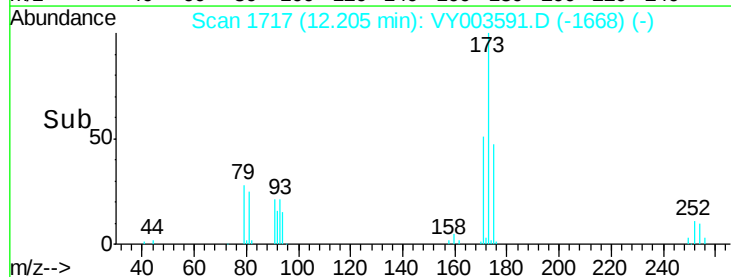
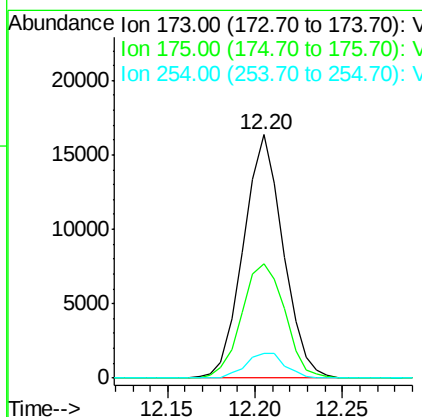
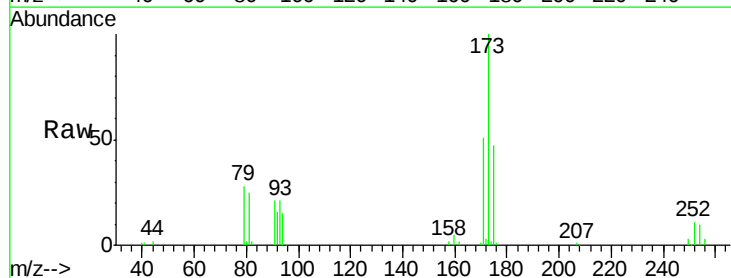
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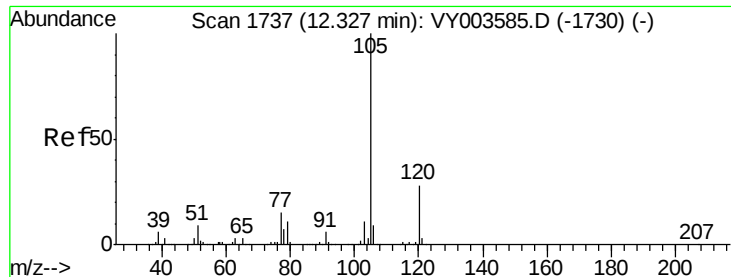
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#59
 Bromoform
 Concen: 11.592 ug/L
 RT: 12.20 min Scan# 1717
 Delta R.T. -0.00 min
 Lab File: VY003591.D
 Acq: 23 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.8	38.9	58.3
254	10.1	8.5	12.7





#60

Isopropylbenzene

Concen: 20.164 ug/L

RT: 12.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Instrument :

MSVOA_Y

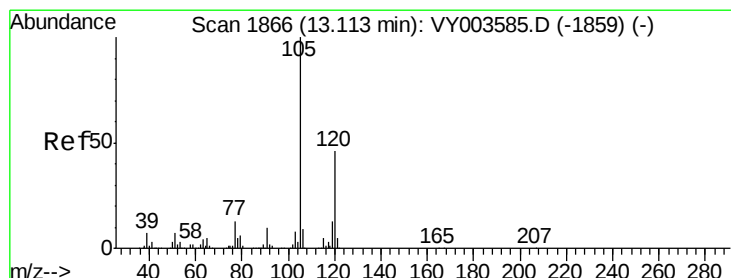
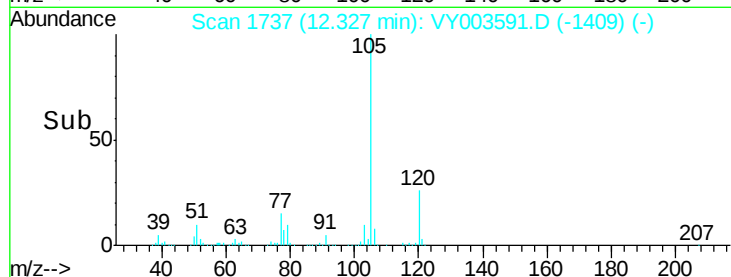
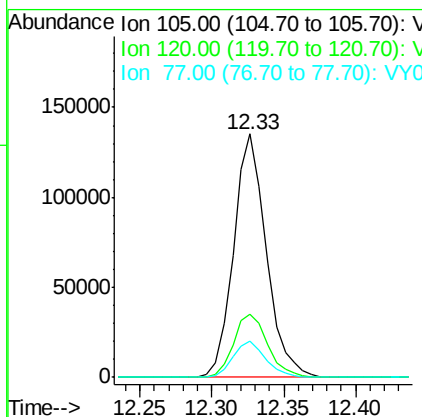
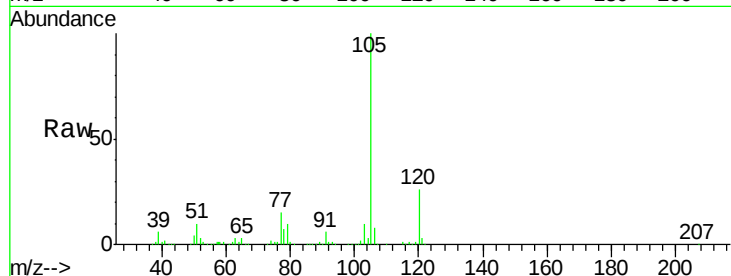
ClientSampled :

X2R14

Tot Ion:	105	Resp:	213759
Ion Ratio	Lower	Upper	
105	100		
120	27.2	21.8	32.6
77	15.1	12.0	18.0

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#63

1,2,4-Trimethylbenzene

Concen: 25.428 ug/L

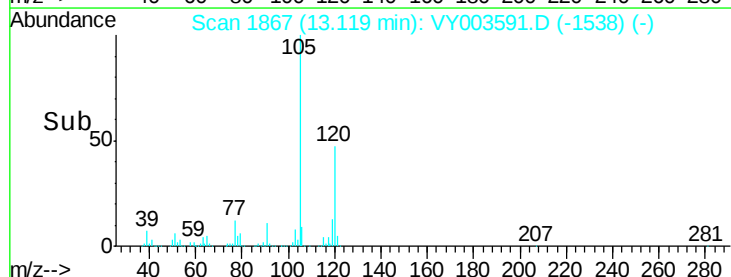
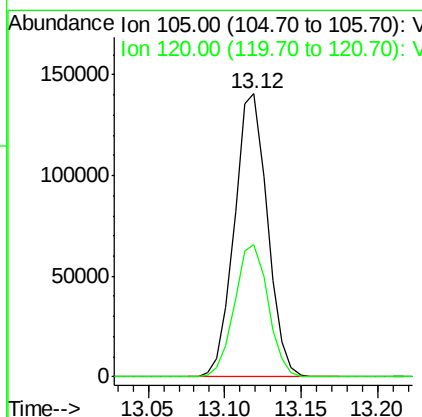
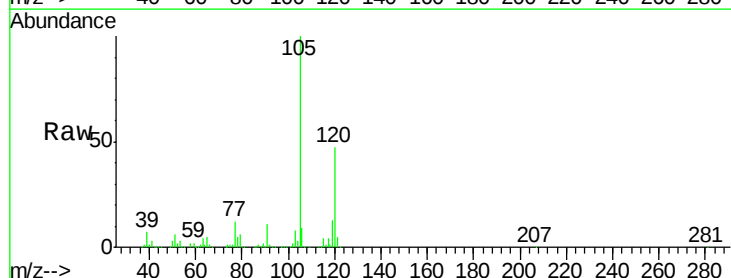
RT: 13.12 min Scan# 1867

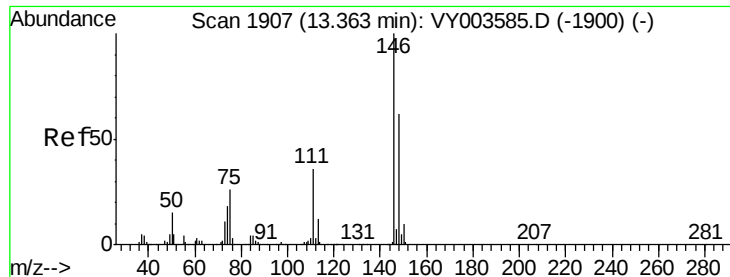
Delta R.T. 0.01 min

Lab File: VY003591.D

Acq: 23 Nov 2020 15:19

Tgt Ion:	105	Resp:	210160
Ion Ratio	Lower	Upper	
105	100		
120	47.5	38.2	57.4





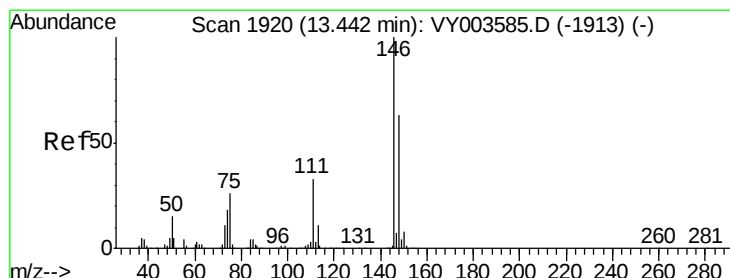
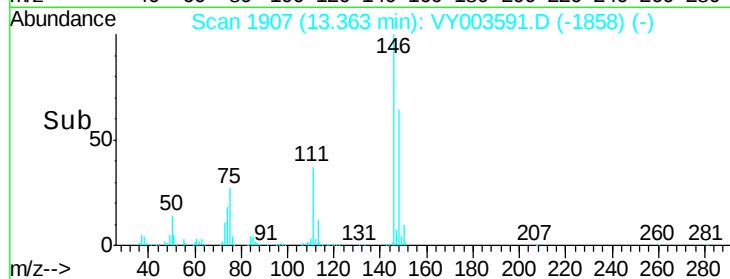
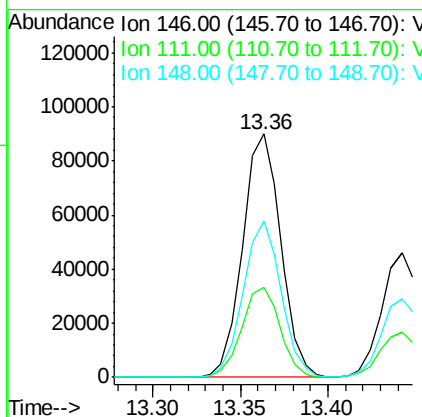
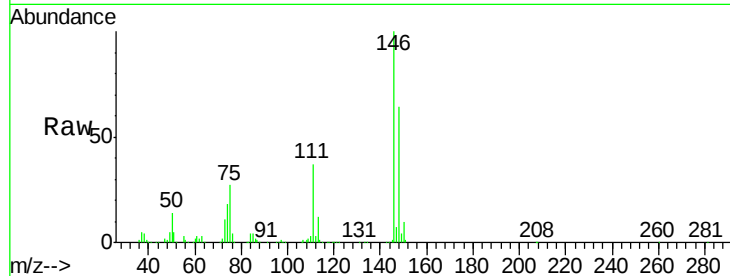
#64
 1,3-Dichlorobenzene
 Concen: 20.436 ug/L
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.00 min
 Lab File: VY003591.D
 Acq: 23 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampled :
 X2R14

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	25.5	47.3
148	64.2	43.3	80.5

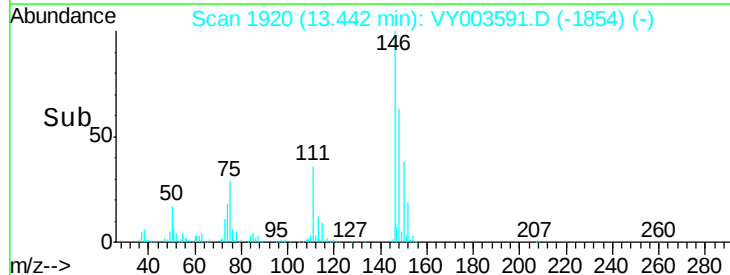
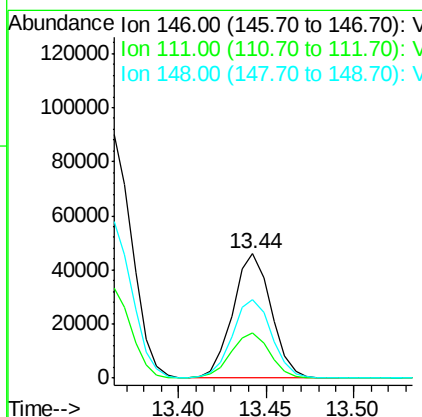
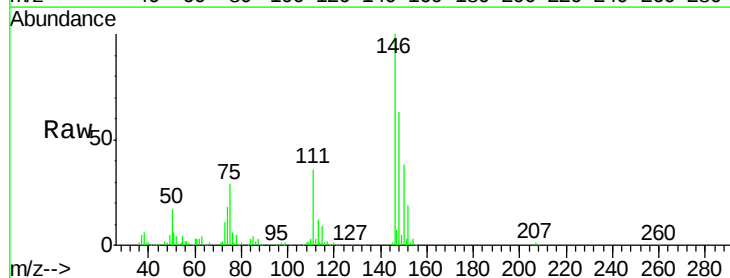
Manual Integrations
 APPROVED

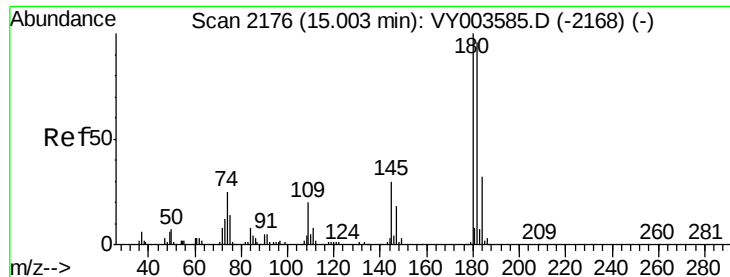
apatel
 12/9/2020 6:18:10 AM



#65
 1,4-Dichlorobenzene
 Concen: 10.017 ug/L
 RT: 13.44 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VY003591.D
 Acq: 23 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	23.4	43.6
148	63.3	44.2	82.2





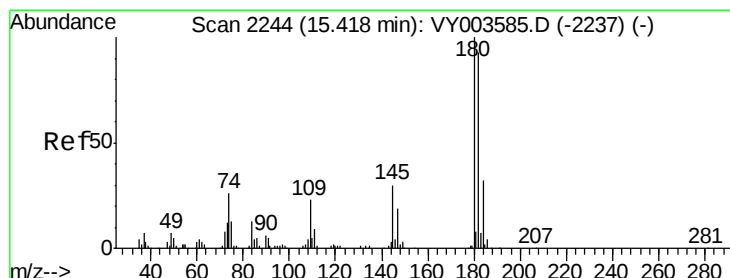
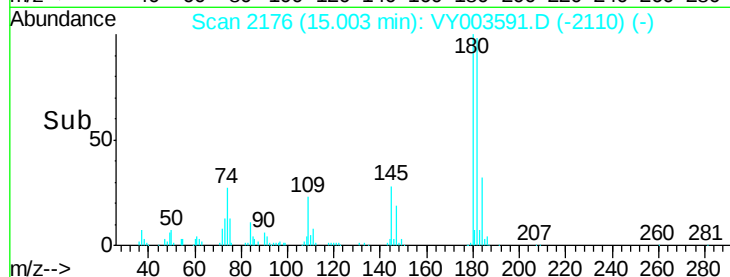
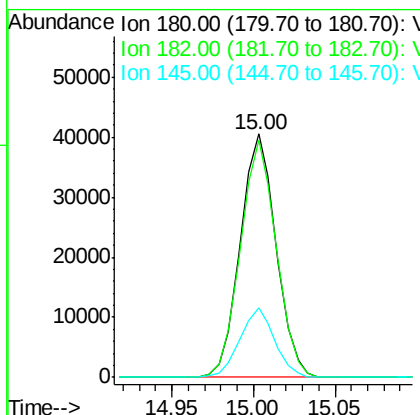
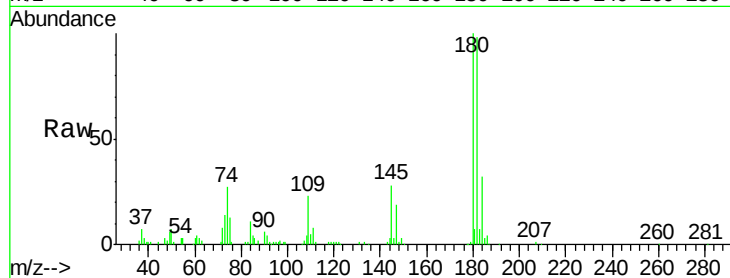
#70
 1,2,4-trichlorobenzene
 Concen: 19.717 ug/L
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VY003591.D
 Acq: 23 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampled :
 X2R14

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	75.7	113.5
145	27.5	22.5	33.7

Manual Integrations
 APPROVED

apatel
 12/9/2020 6:18:10 AM



#72
 1,2,3-Trichlorobenzene
 Concen: 31.168 ug/L
 RT: 15.42 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VY003591.D
 Acq: 23 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	75.0	112.4
145	28.9	23.6	35.4

