

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111920\
 Data File : VY003548.D
 Acq On : 19 Nov 2020 15:19
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 10:22:38 AM

Quant Time: Nov 20 02:40:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111920S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 20 01:42:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	234322	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	211987	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	98465	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.26	65	48194	18.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.64%
7) Chloroethane-d5	2.77	69	46462	19.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.56%
10) 1,1-Dichloroethene-d2	3.86	63	94922	14.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	59.48%
20) 2-Butanone-d5	6.91	46	56145	43.12	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.24%
24) Chloroform-d	7.49	84	124739	20.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.76%
26) 1,2-Dichloroethane-d4	8.14	65	72398	21.69	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.76%
29) Benzene-d6	8.11	84	265987	21.54	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.16%
33) 1,2-Dichloropropane-d6	9.13	67	78500	21.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.72%
37) Toluene-d8	10.18	98	237579	21.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.88%
38) trans-1,3-Dichloropropene-	10.44	79	38292	21.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.76%
39) 2-Hexanone-d5	10.79	63	40056	42.54	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	85.08%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	64151	20.33	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.32%
61) 1,2-Dichlorobenzene-d4	13.72	152	70518	22.19	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.92	85	1197	0.964	ug/L #	74
3) Chloromethane	2.12	50	3523	1.348	ug/L	98
5) Vinyl chloride	2.27	62	4218	1.351	ug/L #	64
6) Bromomethane	2.66	94	2980	1.230	ug/L	92
8) Chloroethane	2.80	64	2804	1.323	ug/L	85
9) Trichlorofluoromethane	3.13	101	3237	1.082	ug/L	90
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	5055m	1.629	ug/L	
12) 1,1-Dichloroethene	3.88	96	4854	1.496	ug/L #	1
13) Acetone	3.99	43	3446m	3.686	ug/L	
14) Carbon disulfide	4.20	76	12991	1.208	ug/L	97
15) Methyl Acetate	4.49	43	2942	1.240	ug/L	91
16) Methylene chloride	4.72	84	12058	3.002	ug/L	97
17) Methyl tert-butyl Ether	5.22	73	6206m	1.224	ug/L	
18) trans-1,2-Dichloroethene	5.22	96	4542	1.328	ug/L	91
19) 1,1-Dichloroethane	6.03	63	6968	1.206	ug/L #	95
21) 2-Butanone	7.00	43	4969	3.156	ug/L #	70
22) cis-1,2-Dichloroethene	6.99	96	4237	1.206	ug/L	85

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

23) Bromochloromethane	7.34	128	2081	1.223	ug/L	94
25) Chloroform	7.50	83	7912	1.377	ug/L	80
27) 1,2-Dichloroethane	8.24	62	5031	1.297	ug/L #	82
30) Cyclohexane	7.79	56	5877	1.140	ug/L	95
31) 1,1,1-Trichloroethane	7.71	97	5696	1.235	ug/L	99
32) Carbon tetrachloride	7.91	117	5388	1.229	ug/L	100
34) Benzene	8.16	78	16895	1.263	ug/L	100
35) Trichloroethene	8.94	95	4236	1.251	ug/L	98
36) Methylcyclohexane	9.19	83	6483	1.225	ug/L	95
40) 1,2-Dichloropropane	9.22	63	3865	1.172	ug/L	98
41) Bromodichloromethane	9.49	83	5177	1.230	ug/L	93
42) cis-1,3-Dichloropropene	9.93	75	6059	1.165	ug/L	89
43) 4-Methyl-2-pentanone	10.08	43	6172	2.237	ug/L	97
44) Toluene	10.24	91	17462	1.239	ug/L	95
45) trans-1,3-Dichloropropene	10.46	75	5782	1.207	ug/L	93
46) 1,1,2-Trichloroethane	10.64	97	3233	1.227	ug/L	95
47) Tetrachloroethene	10.72	164	3434	1.167	ug/L	88
49) 2-Hexanone	10.83	43	5123	2.351	ug/L	98
50) Dibromochloromethane	10.98	129	3773	1.188	ug/L	98
51) 1,2-Dibromoethane	11.09	107	3340	1.272	ug/L #	98
52) Chlorobenzene	11.52	112	11183	1.242	ug/L	99
53) Ethylbenzene	11.59	91	16182	1.118	ug/L	96
54) m,p-Xylene	11.70	106	6431	1.154	ug/L	76
55) o-xylene	12.02	106	5438	1.169	ug/L	87
56) Styrene	12.04	104	9756	1.071	ug/L	99
57) Isopropylbenzene	12.33	105	11325	1.076	ug/L #	95
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	4079	1.313	ug/L #	90
59) 1,2,3-Trichloropropane	12.63	75	2868	1.186	ug/L	98
62) Bromoform	12.21	173	2493	1.247	ug/L	99
63) 1,3-Dichlorobenzene	13.36	146	8300	1.336	ug/L	97
64) 1,4-Dichlorobenzene	13.44	146	8751	1.368	ug/L	96
65) 1,2-Dichlorobenzene	13.73	146	6592	1.288	ug/L	91
66) 1,2-Dibromo-3-chloropropan	14.35	75	559m	1.283	ug/L	
67) 1,3,5-Trichlorobenzene	14.50	180	4268	1.295	ug/L	94
68) 1,2,4-trichlorobenzene	15.00	180	3355	1.182	ug/L	96
69) Naphthalene	15.23	128	5827	1.163	ug/L	95
70) 1,2,3-Trichlorobenzene	15.42	180	2636	1.228	ug/L	98

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

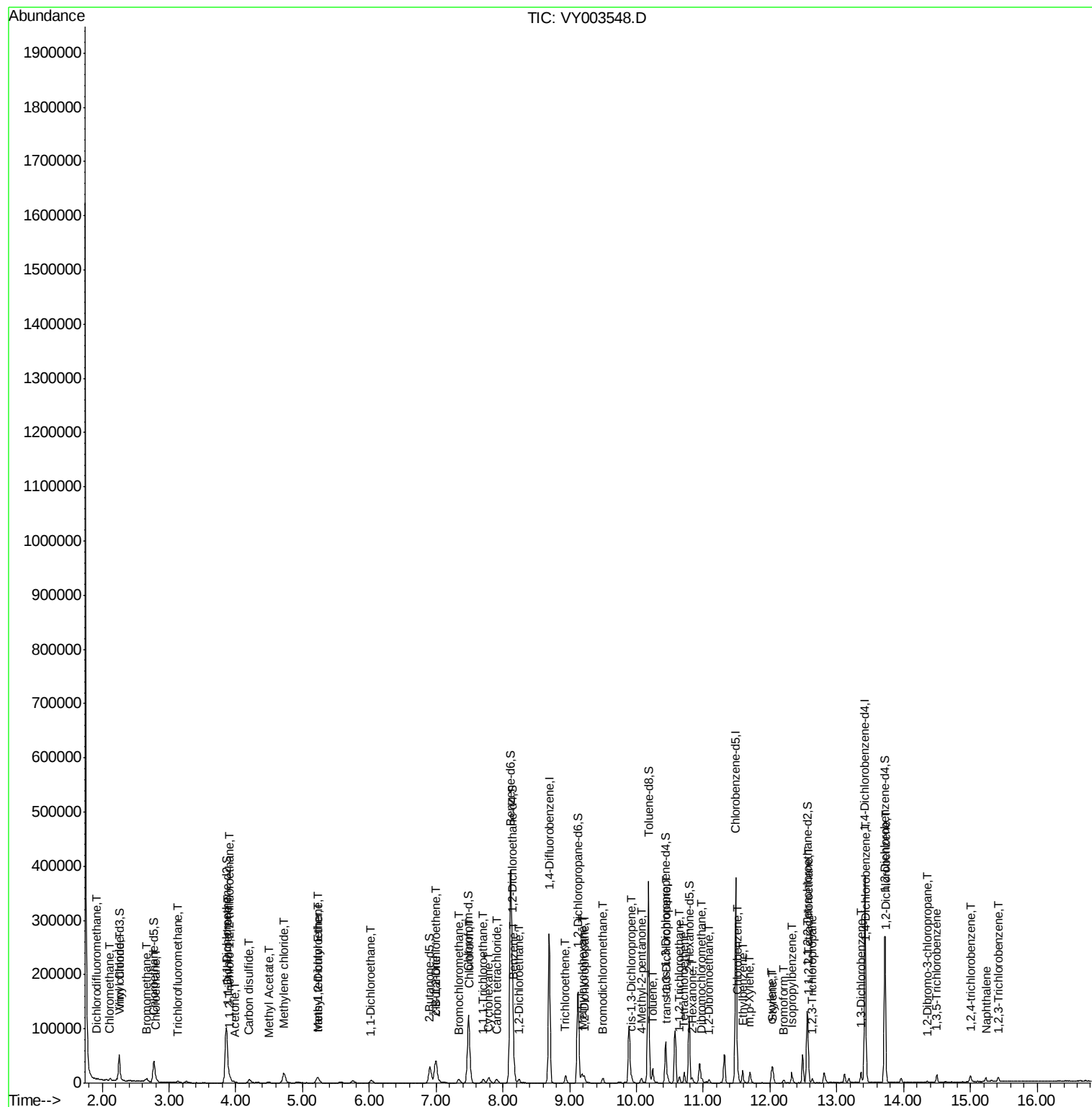
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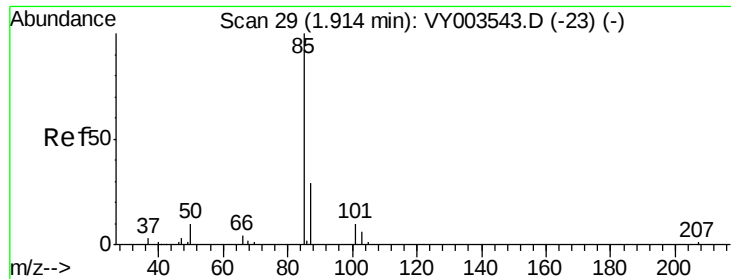
Instrument :
MSVOA_Y
ClientSampled :
MDL01

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#2

Dichlorodifluoromethane

Concen: 0.964 ug/L

RT: 1.92 min Scan# 30

Delta R.T. 0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 1197

Ion Ratio Lower Upper

85 100

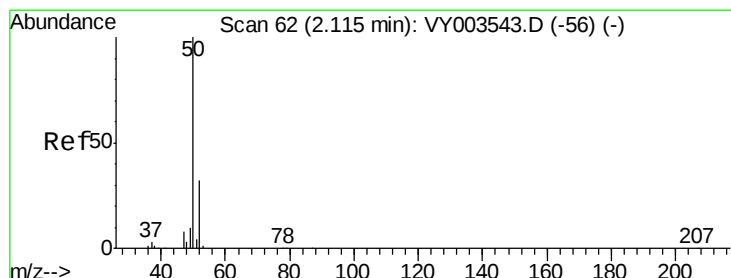
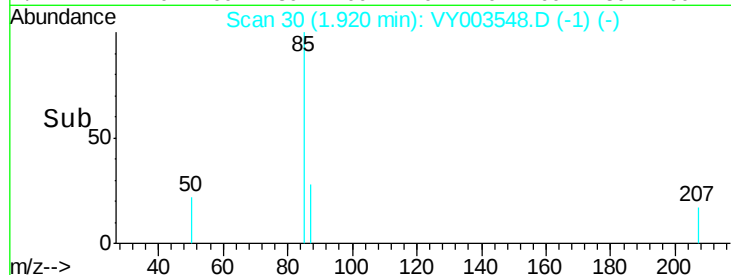
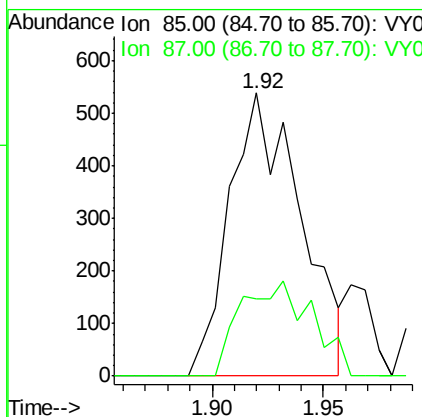
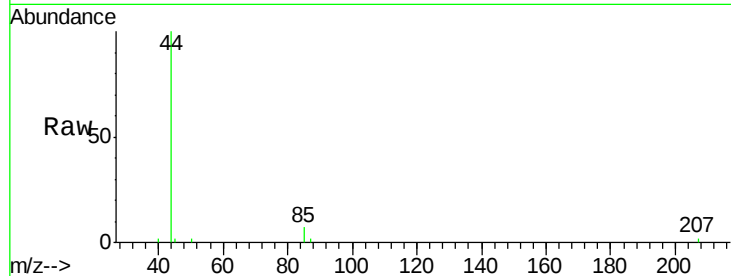
87 16.5 21.3 39.5#

Manual Integrations

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11/20/2020 10:22:38 AM



#3

Chloromethane

Concen: 1.348 ug/L

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003548.D

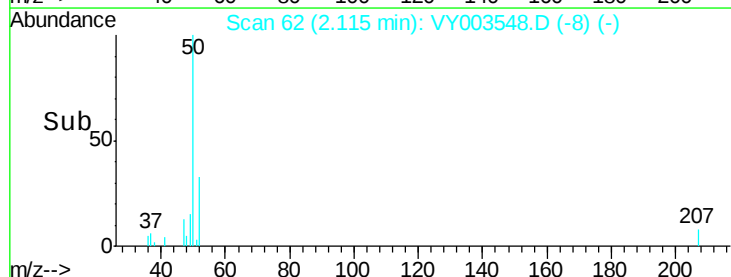
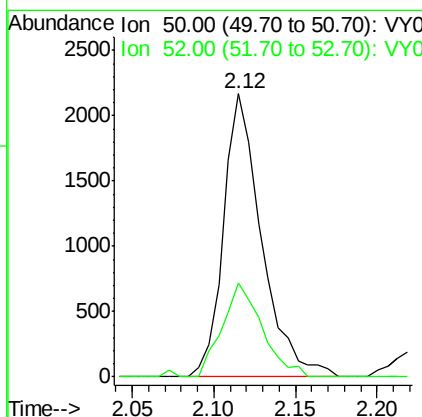
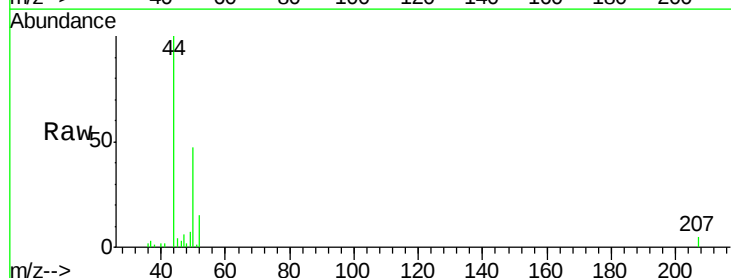
Acq: 19 Nov 2020 15:19

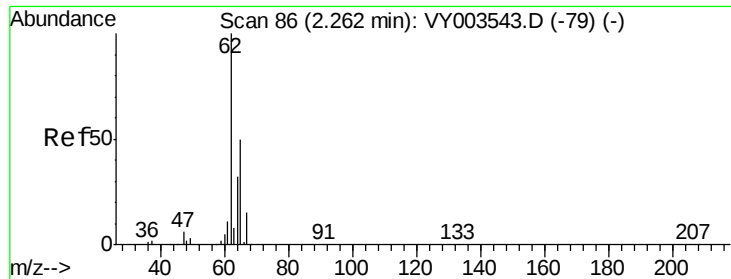
Tgt Ion: 50 Resp: 3523

Ion Ratio Lower Upper

50 100

52 33.0 22.4 41.6





#5

Vinyl chloride

Concen: 1.351 ug/L

RT: 2.27 min Scan# 87

Delta R.T. 0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampled :

MDL01

Tot Ion: 62 Resp: 4218

Ion Ratio Lower Upper

62 100

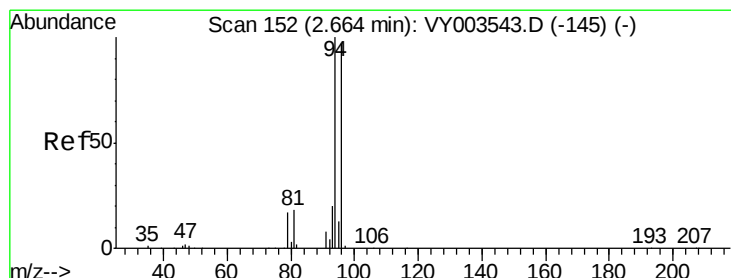
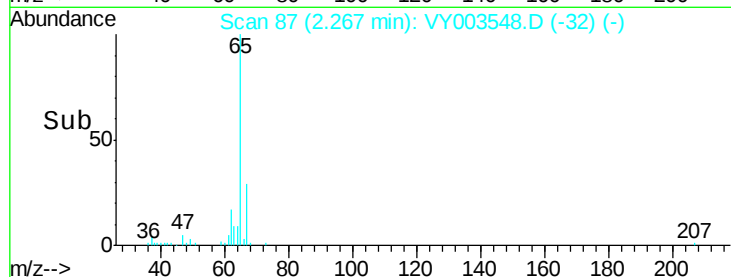
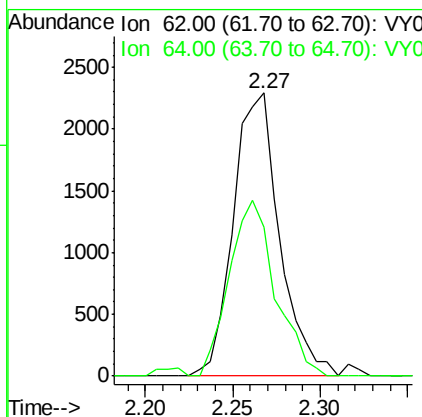
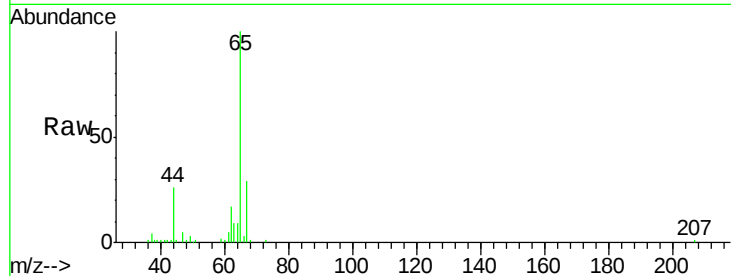
64 52.6 22.7 42.1#

Manual Integrations

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11/20/2020 10:22:38 AM



#6

Bromomethane

Concen: 1.230 ug/L

RT: 2.66 min Scan# 152

Delta R.T. -0.00 min

Lab File: VY003548.D

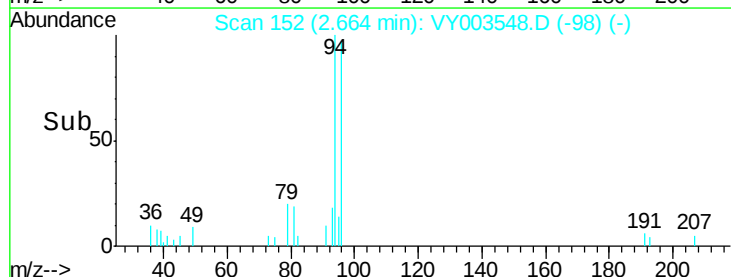
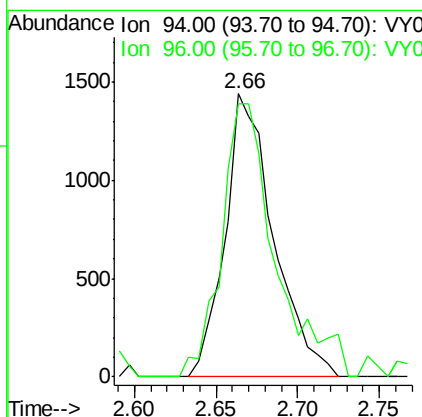
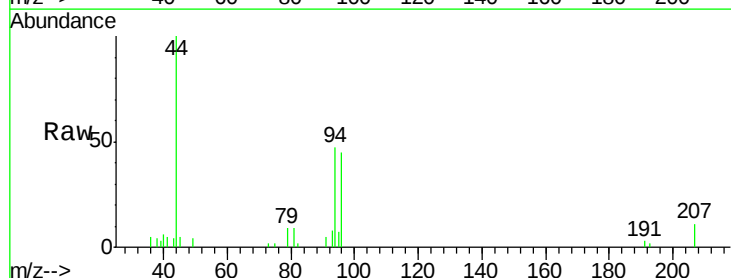
Acq: 19 Nov 2020 15:19

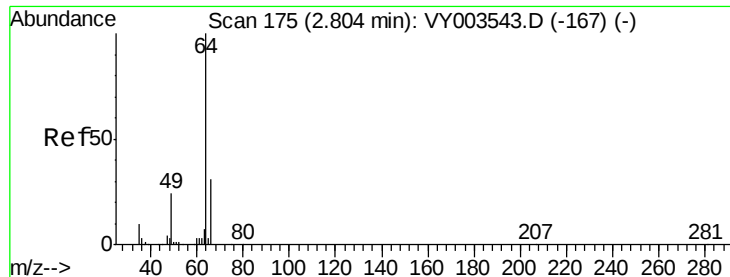
Tgt Ion: 94 Resp: 2980

Ion Ratio Lower Upper

94 100

96 101.9 9.4 178.6





#8

Chloroethane

Concen: 1.323 ug/L

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 2804

Ion Ratio Lower Upper

64 100

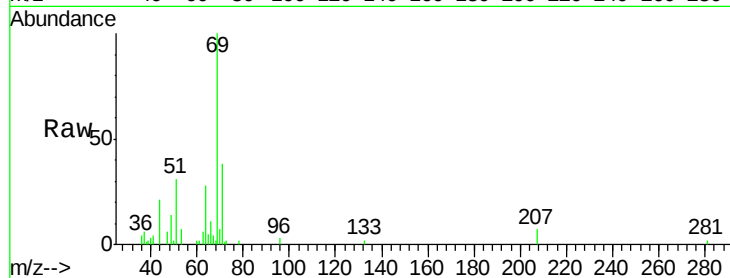
66 39.7 21.8 40.6

Manual Integrations

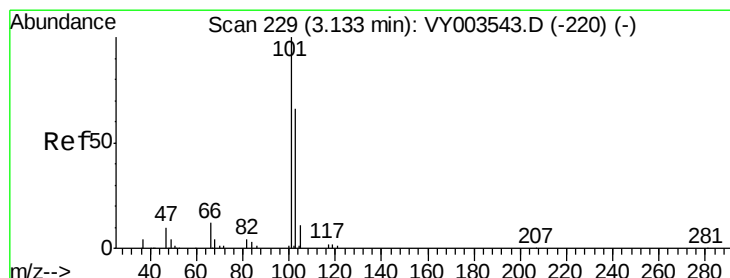
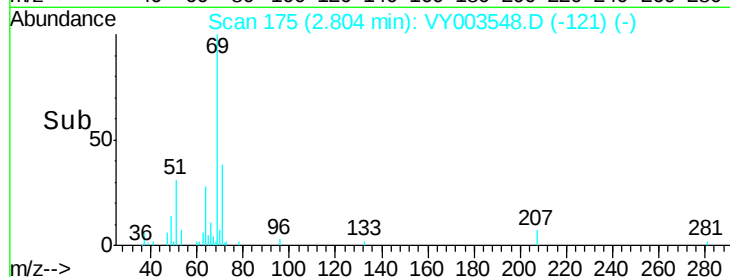
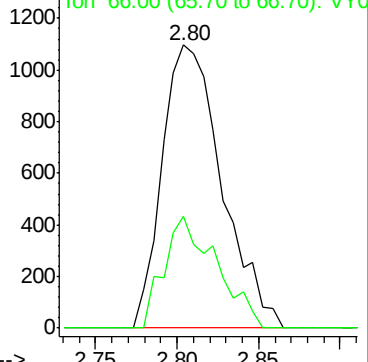
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Abundance Ion 64.00 (63.70 to 64.70): VY003548.D (-167) (-)



#9

Trichlorofluoromethane

Concen: 1.082 ug/L

RT: 3.13 min Scan# 229

Delta R.T. -0.00 min

Lab File: VY003548.D

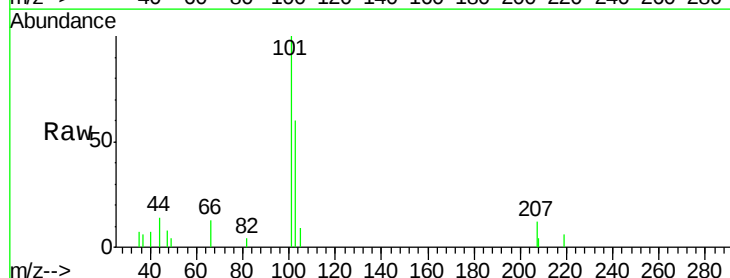
Acq: 19 Nov 2020 15:19

Tgt Ion: 101 Resp: 3237

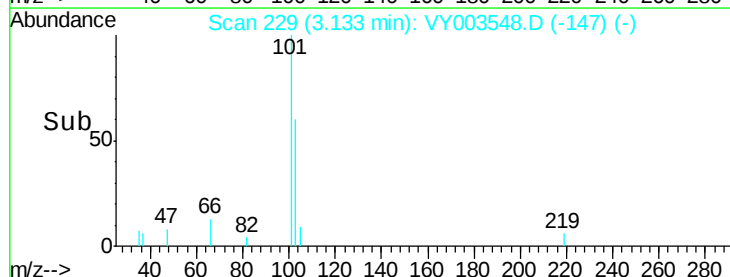
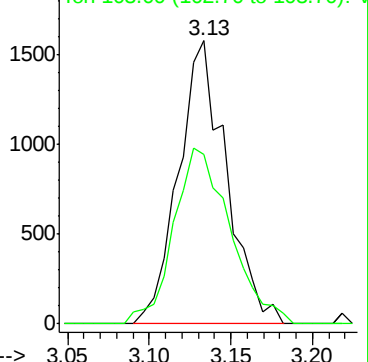
Ion Ratio Lower Upper

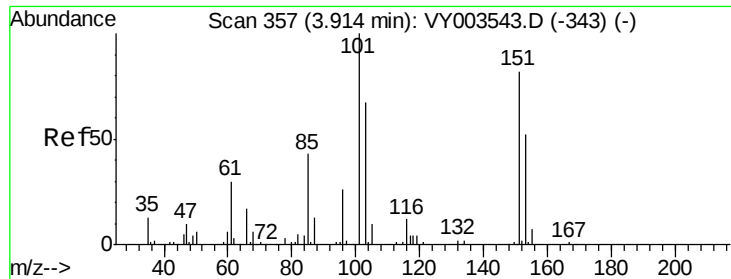
101 100

103 73.1 45.6 84.6



Abundance Ion 101.00 (100.70 to 101.70): VY003548.D (-220) (-)





#11

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

Concen: 1.629 ug/L m

RT: 3.91 min Scan# 356

Delta R.T. -0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

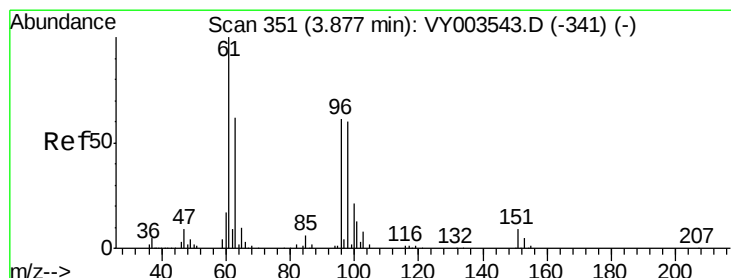
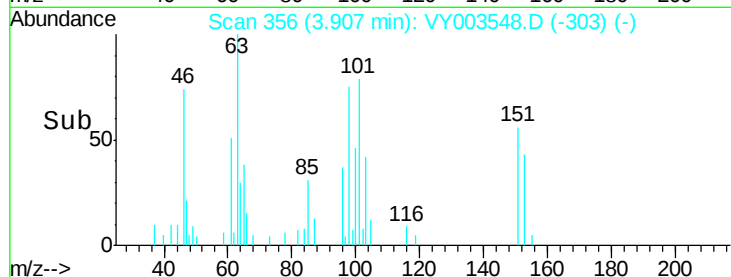
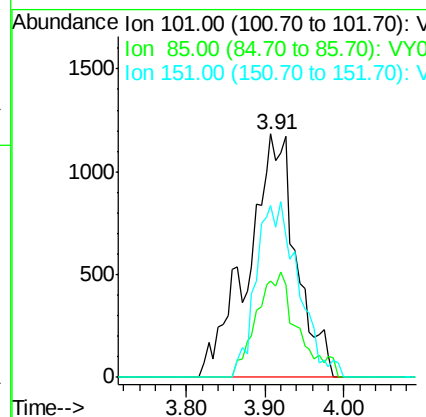
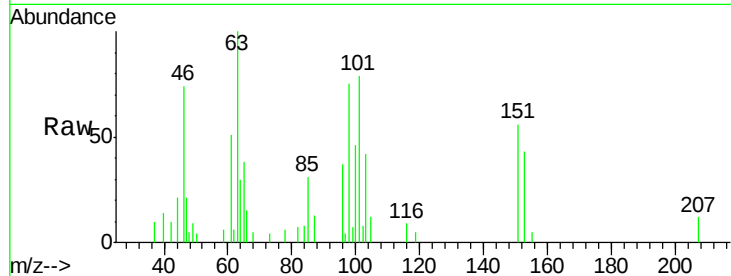
ClientSampleId :

MDL01

Tot Ion:	101	Resp:	5055
Ion Ratio	Lower	Upper	
101	100		
85	18.6	35.0	52.4#
151	23.8	65.4	98.0#

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11/20/2020 10:22:38 AM



#12

1,1-Dichloroethene

Concen: 1.496 ug/L

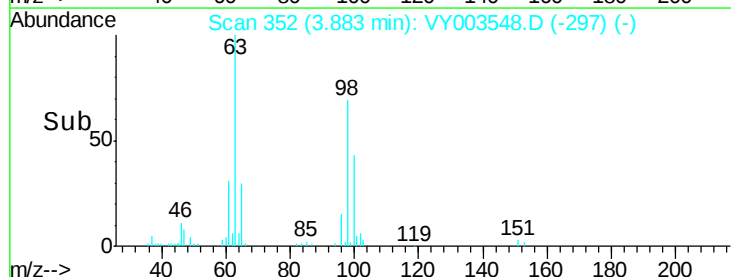
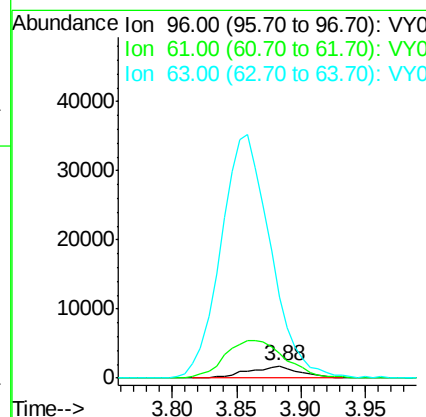
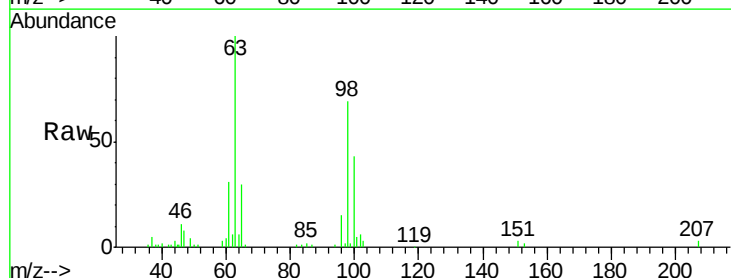
RT: 3.88 min Scan# 352

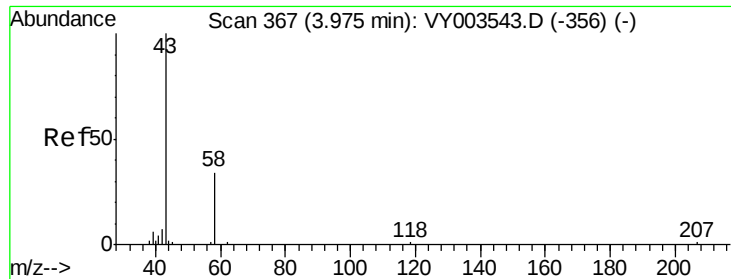
Delta R.T. 0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tgt Ion:	96	Resp:	4854
Ion Ratio	Lower	Upper	
96	100		
61	201.2	116.6	216.6
63	654.8	77.5	143.9#





#13

Acetone

Concen: 3.686 ug/L m

RT: 3.99 min Scan# 369

Delta R.T. 0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 3446

Ion Ratio Lower Upper

43 100

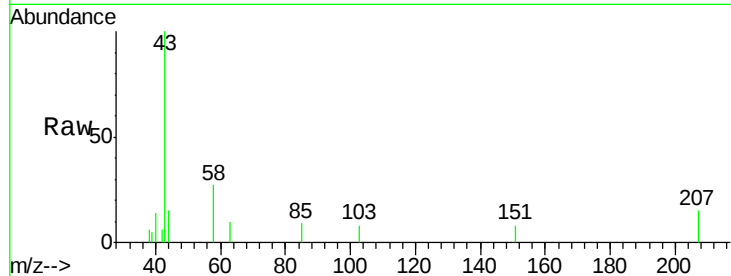
58 22.8 0.0 66.2

Manual Integrations

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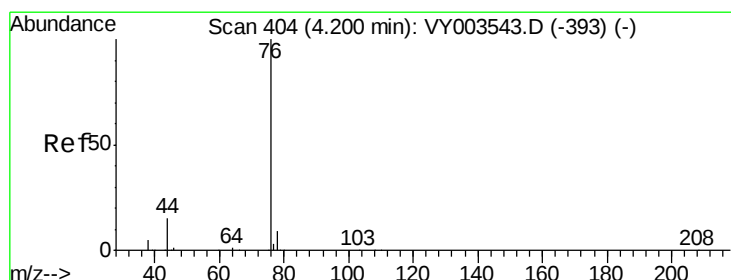
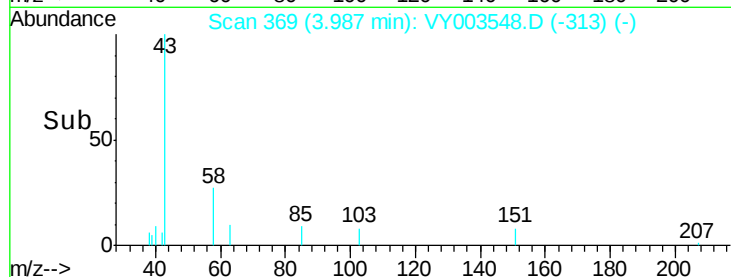
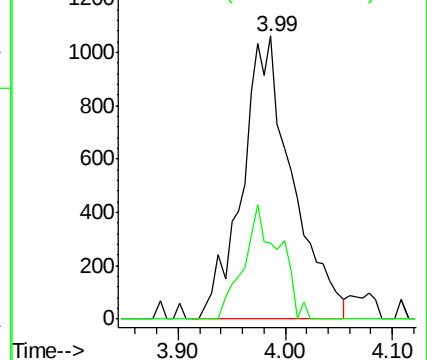
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11/20/2020 10:22:38 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 1.208 ug/L

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY003548.D

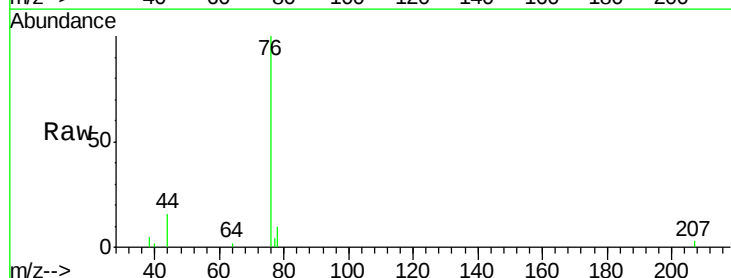
Acq: 19 Nov 2020 15:19

Tgt Ion: 76 Resp: 12991

Ion Ratio Lower Upper

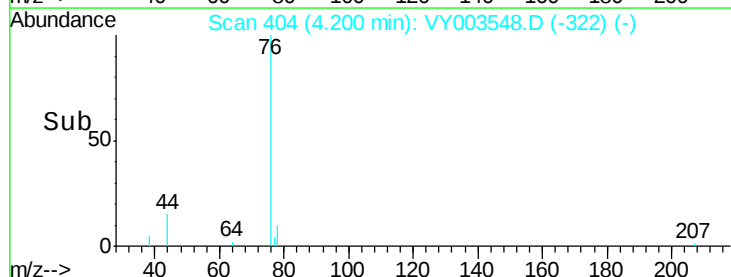
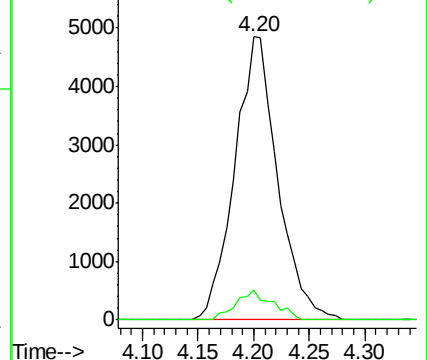
76 100

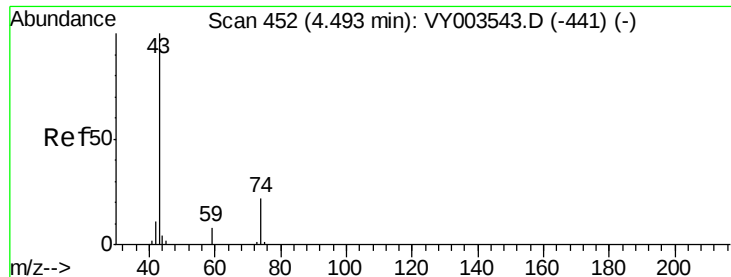
78 10.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





#15

Methvl Acetate

Concen: 1.240 ug/L

RT: 4.49 min Scan# 452

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tot Ion: 43 Resp: 2942

Ion Ratio Lower Upper

43 100

74 18.6 18.2 27.2

Instrument :

MSVOA_Y

ClientSampled :

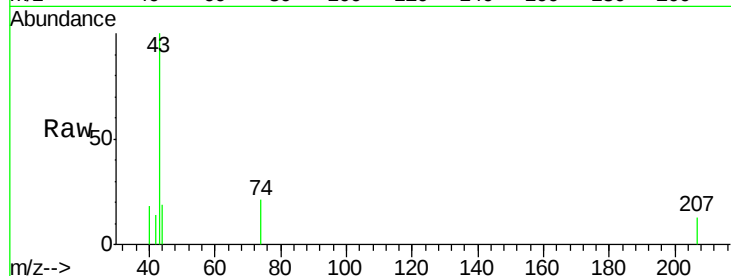
MDL01

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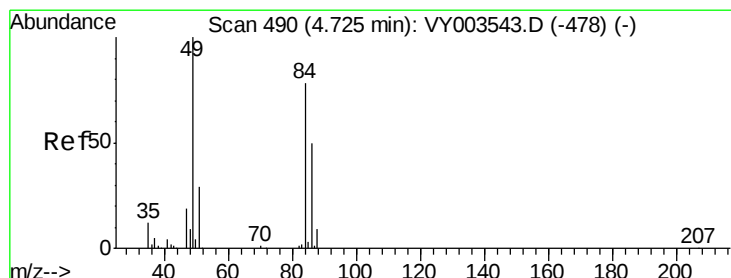
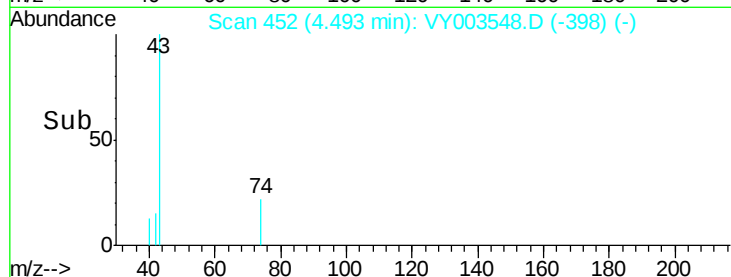
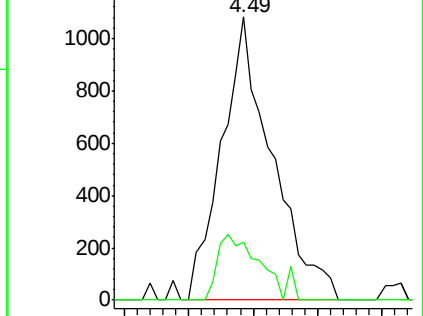
MMDadoda

11/20/2020 10:22:38 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0



#16

Methylene chloride

Concen: 3.002 ug/L

RT: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

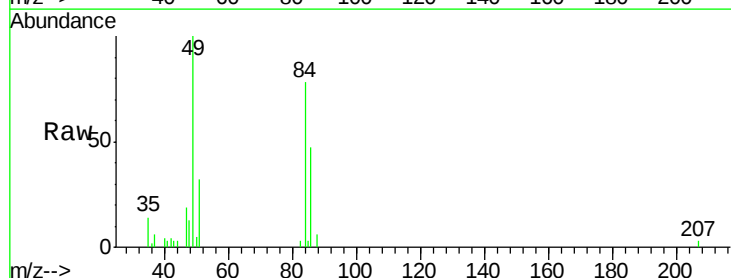
Tgt Ion: 84 Resp: 12058

Ion Ratio Lower Upper

84 100

49 127.6 90.3 167.7

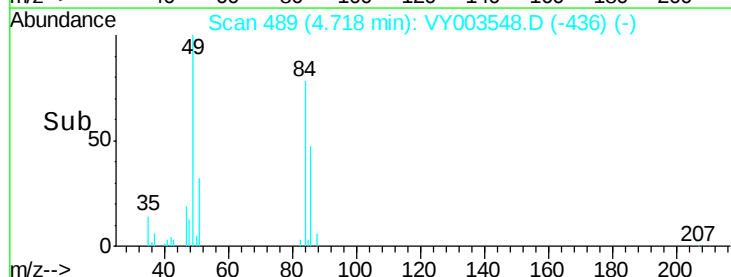
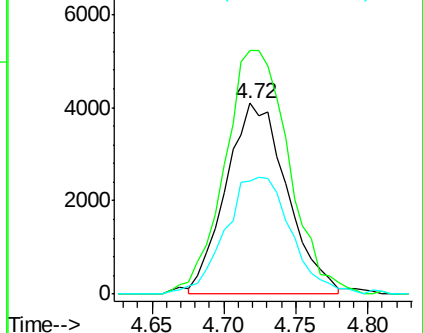
86 59.6 44.7 83.1

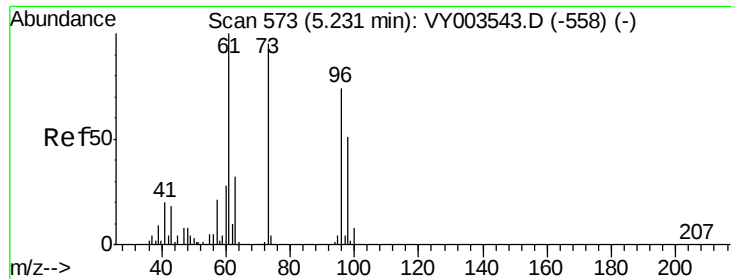


Abundance Ion 84.00 (83.70 to 84.70): VY0

Ion 49.00 (48.70 to 49.70): VY0

Ion 86.00 (85.70 to 86.70): VY0





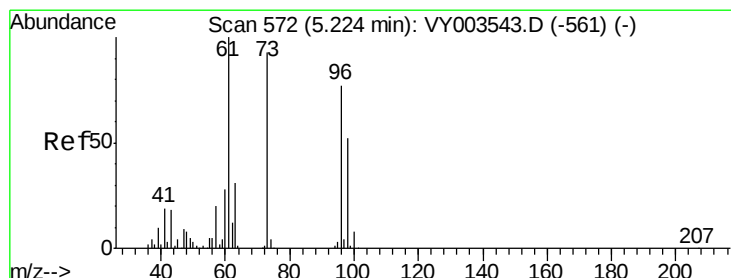
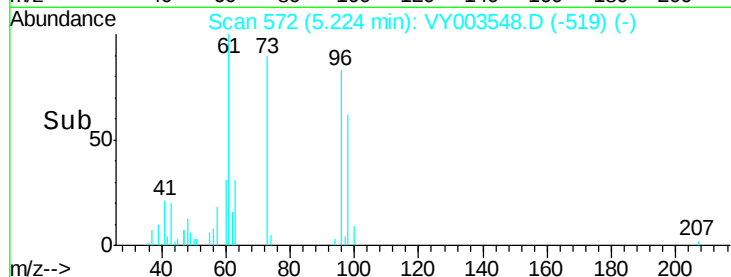
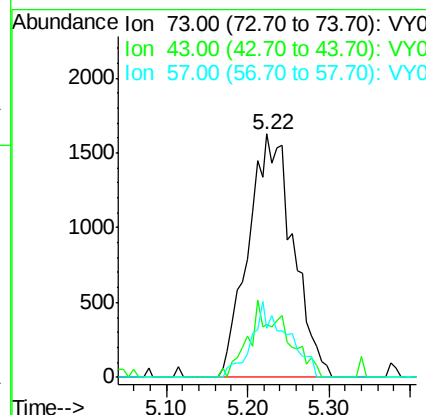
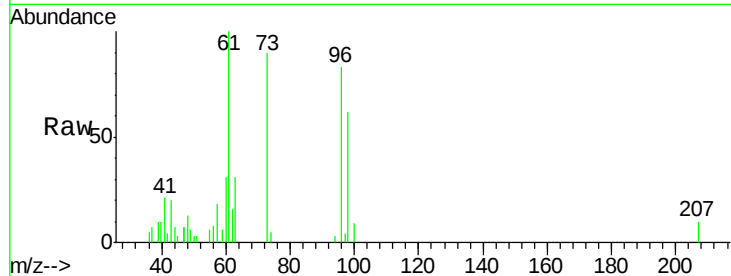
#17
Methvl tert-butvl Ether
Concen: 1.224 ug/L m
RT: 5.22 min Scan# 572
Delta R.T. -0.01 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
73	100		
43	5.0	15.9	23.9#
57	11.5	10.5	15.7

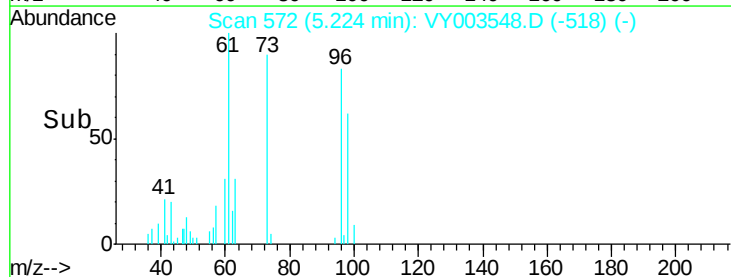
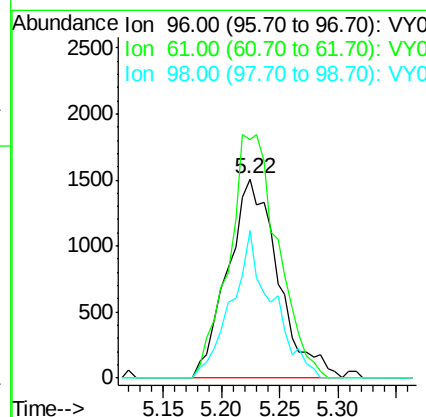
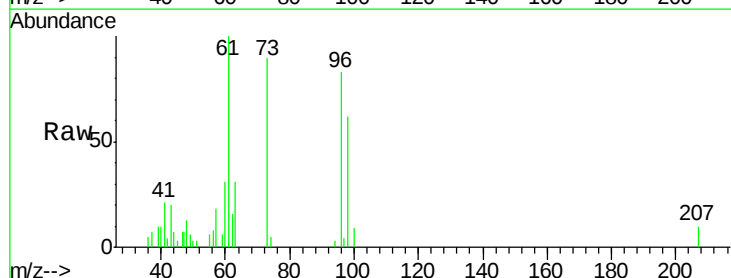
Manual Integrations
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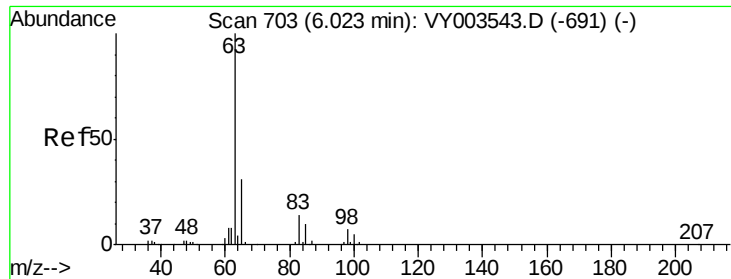
MMDadoda
11/20/2020 10:22:38 AM



#18
trans-1,2-Dichloroethene
Concen: 1.328 ug/L
RT: 5.22 min Scan# 572
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	119.9	90.8	168.6
98	74.4	46.8	87.0





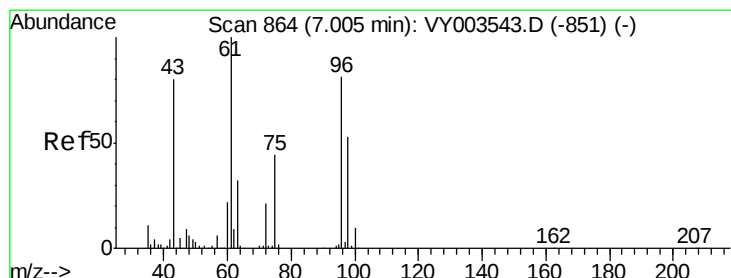
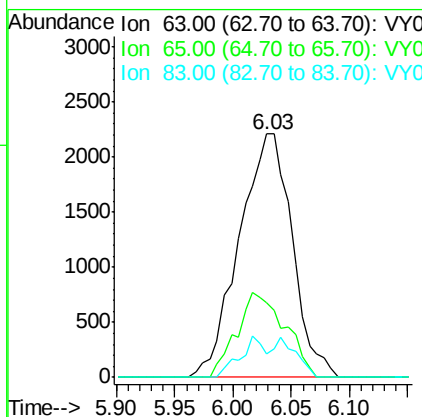
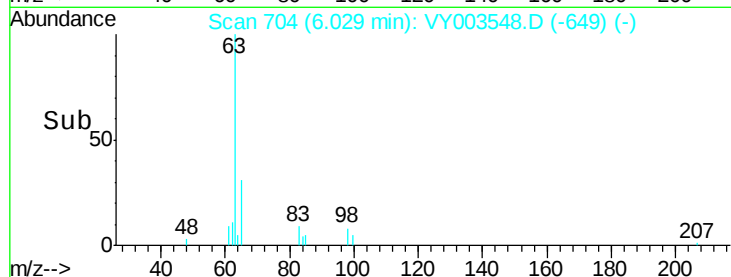
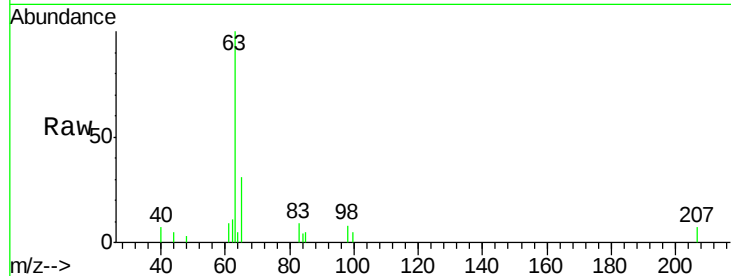
#19
 1,1-Dichloroethane
 Concen: 1.206 ug/L
 RT: 6.03 min Scan# 704
 Delta R.T. 0.01 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	6968		
65	30.6		22.0	40.8
83	9.5		9.9	18.5

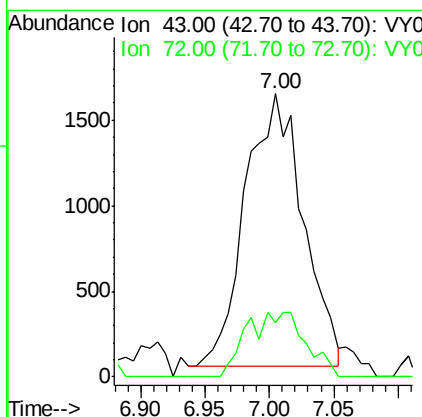
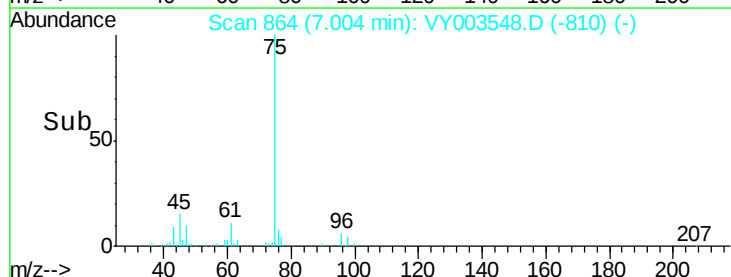
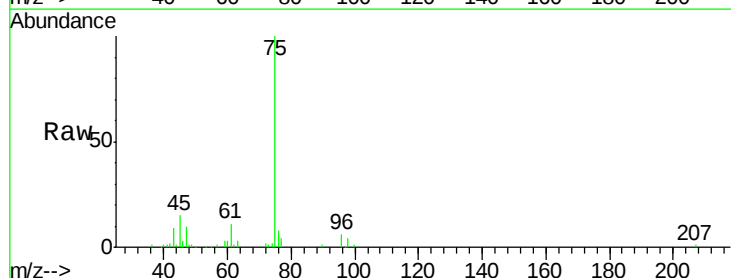
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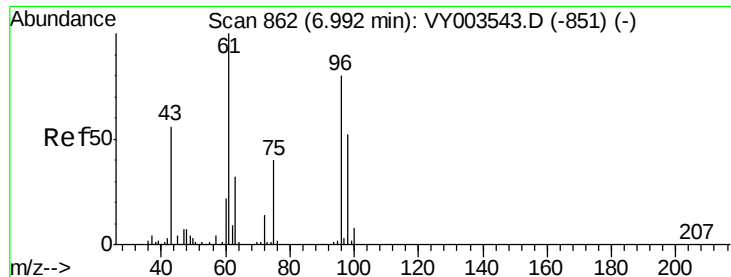
MMDadoda
 11/20/2020 10:22:38 AM



#21
 2-Butanone
 Concen: 3.156 ug/L
 RT: 7.00 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	4969		
72	11.2		13.2	39.6





#22

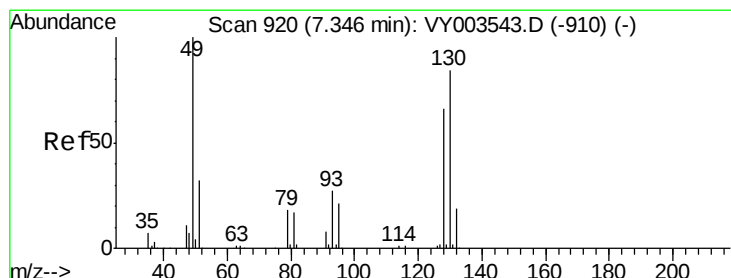
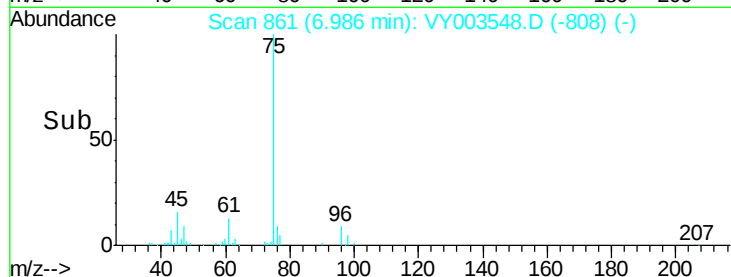
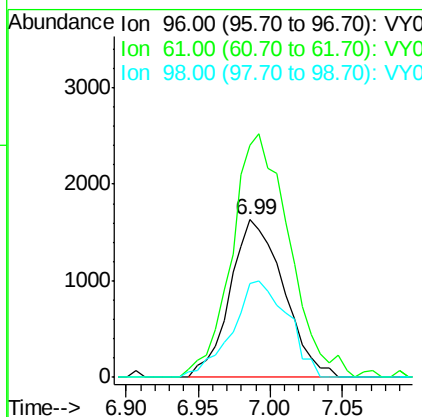
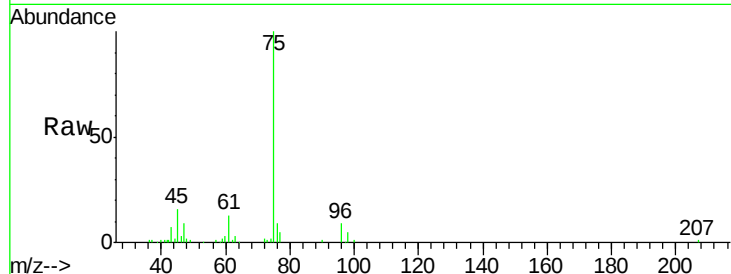
cis-1,2-Dichloroethene
Concen: 1.206 ug/L
RT: 6.99 min Scan# 861
Delta R.T. -0.01 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.2	88.1	163.5
98	59.3	45.6	84.6

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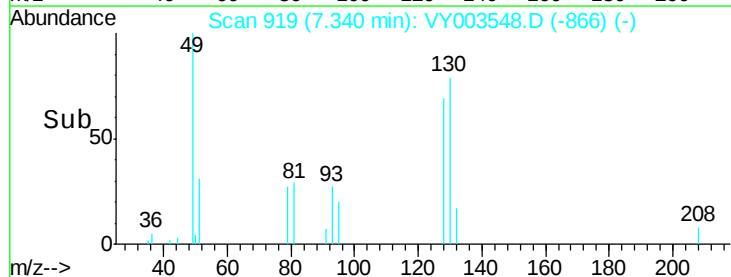
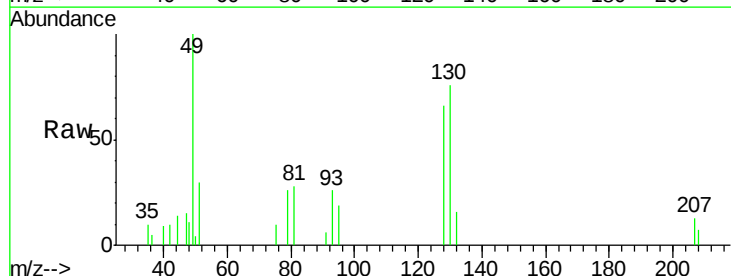
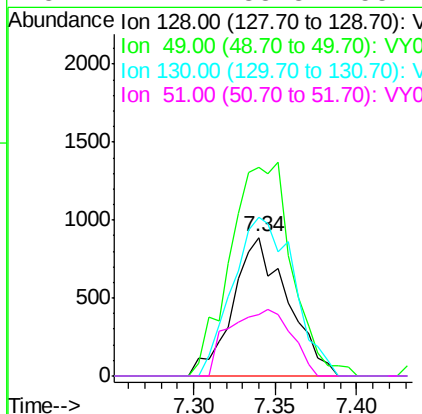
MMDadoda
11/20/2020 10:22:38 AM

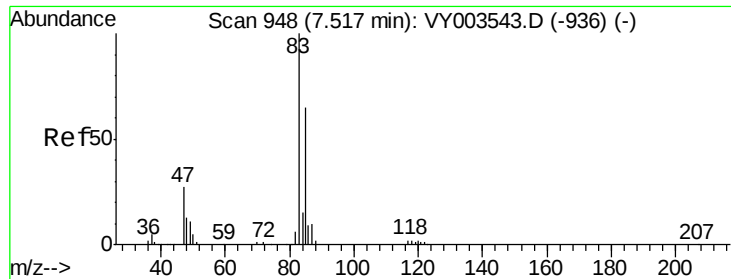


#23

Bromochloromethane
Concen: 1.223 ug/L
RT: 7.34 min Scan# 919
Delta R.T. -0.01 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
128	100		
49	151.0	107.3	199.3
130	114.4	89.3	165.9
51	44.7	38.8	58.2





#25

Chloroform

Concen: 1.377 ug/L

RT: 7.50 min Scan# 946

Delta R.T. -0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion: 83 Resp: 7912

Ion Ratio Lower Upper

83 100

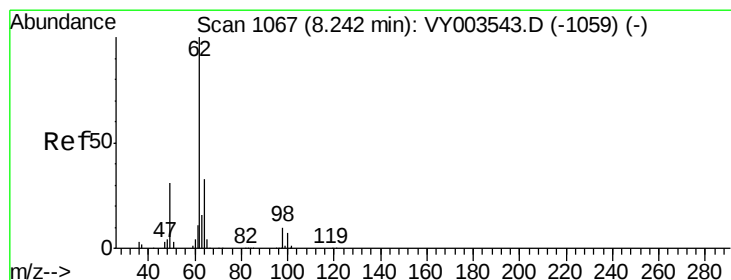
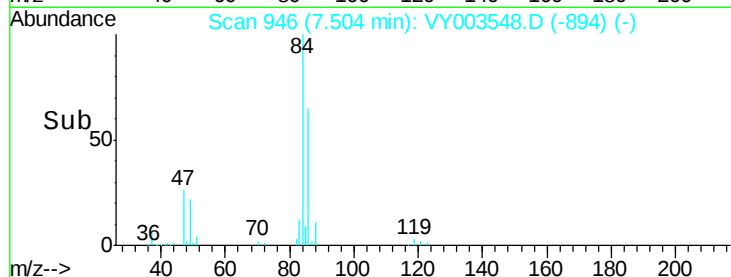
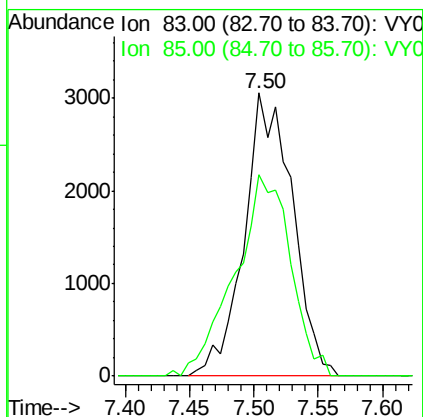
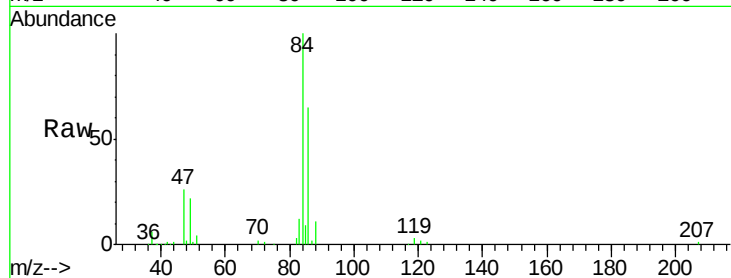
85 82.3 46.2 85.8

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 1.297 ug/L

RT: 8.24 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VY003548.D

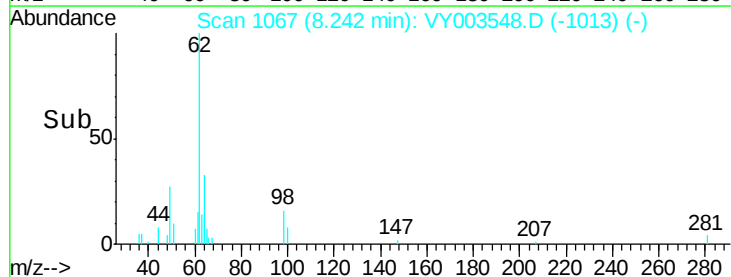
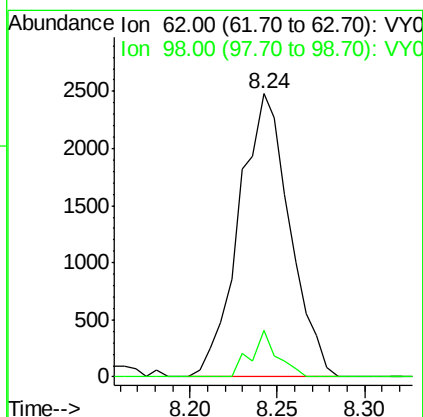
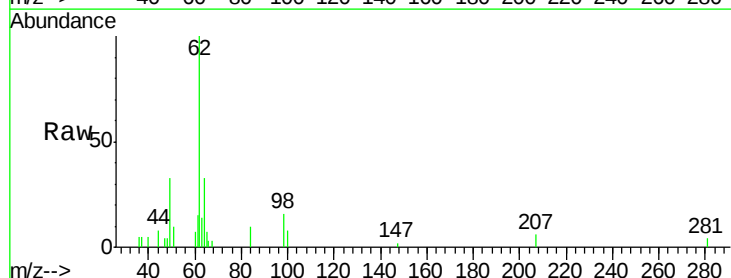
Acq: 19 Nov 2020 15:19

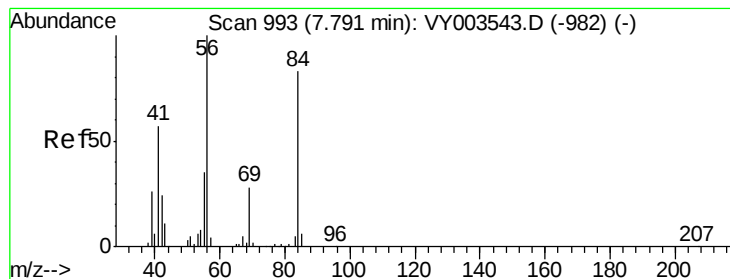
Tgt Ion: 62 Resp: 5031

Ion Ratio Lower Upper

62 100

98 16.3 7.7 11.5#





#30

Cyclohexane

Concen: 1.140 ug/L

RT: 7.79 min Scan# 993

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

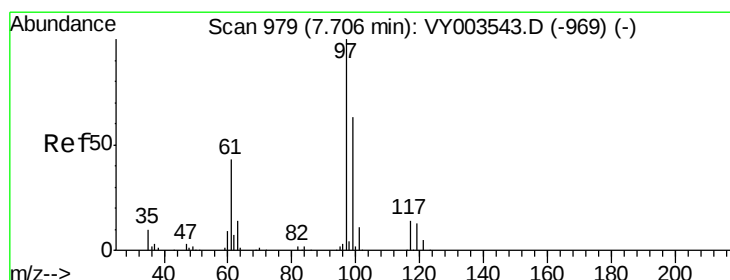
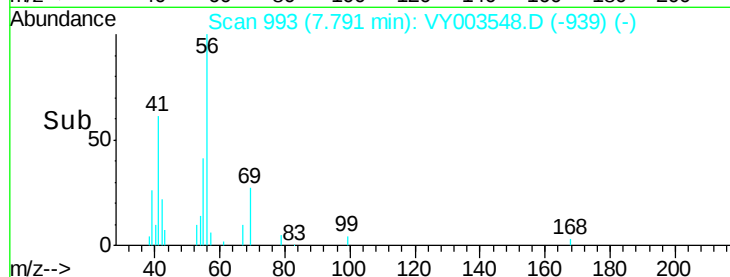
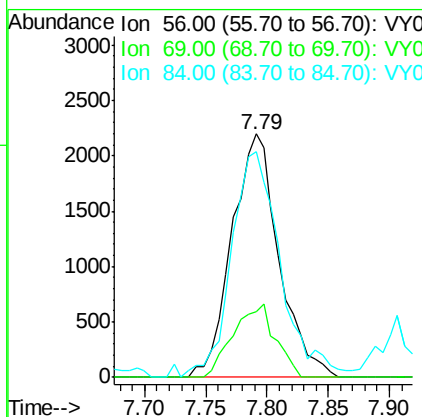
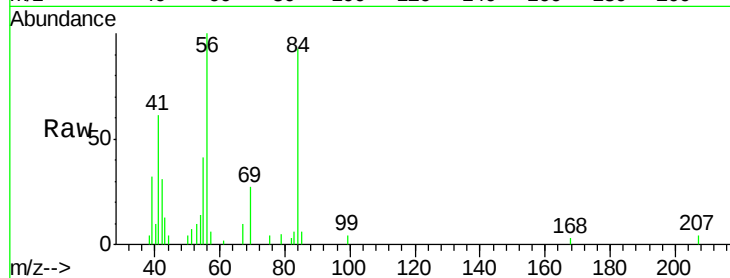
ClientSampled :

MDL01

Tot Ion:	56	Resp:	5877
Ion	Ratio	Lower	Upper
56	100		
69	26.9	23.3	34.9
84	91.8	69.9	104.9

Manual Integrations
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#31

1,1,1-Trichloroethane

Concen: 1.235 ug/L

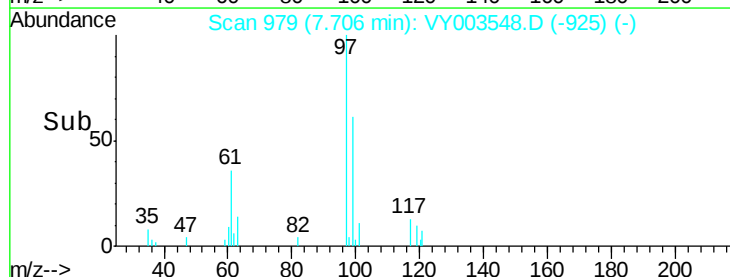
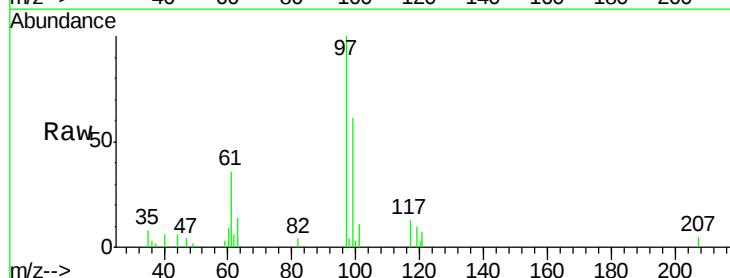
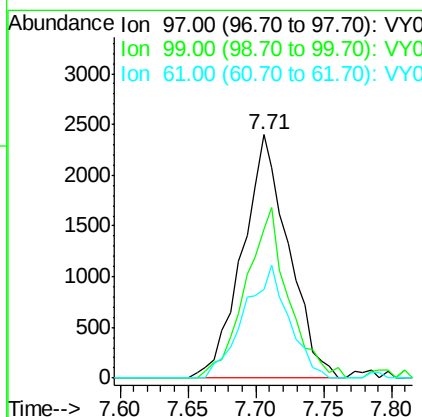
RT: 7.71 min Scan# 979

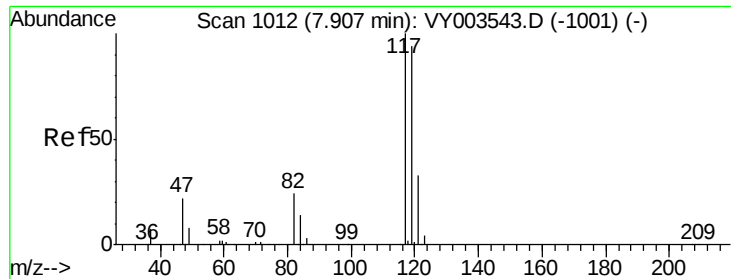
Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tgt Ion:	97	Resp:	5696
Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.1	78.1
61	44.8	34.9	52.3





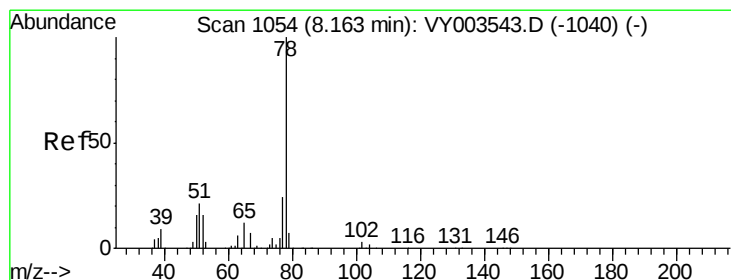
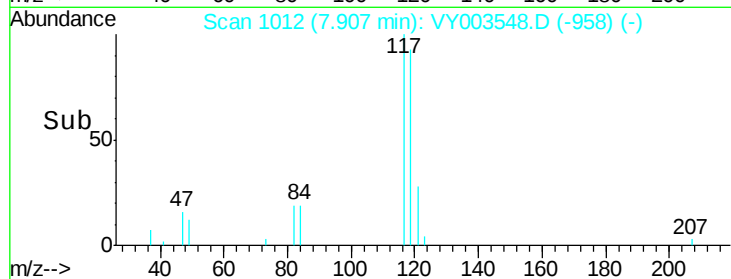
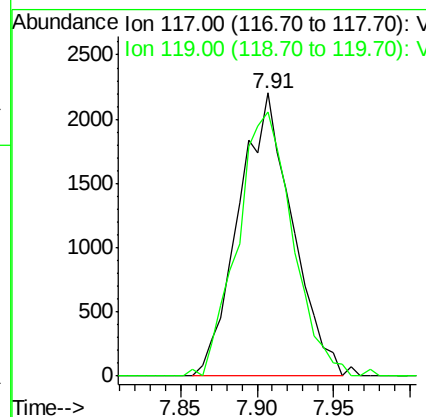
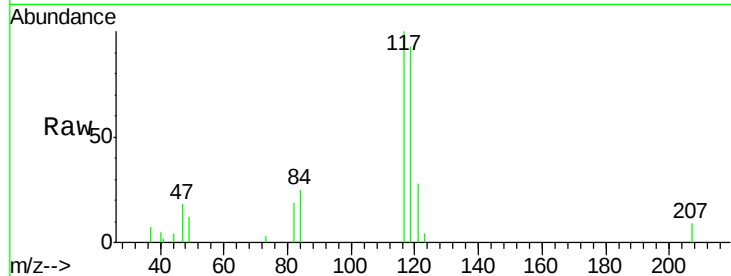
#32
Carbon tetrachloride
Concen: 1.229 ug/L
RT: 7.91 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
MDL01

Tot Ion:117 Resp: 5388
Ion Ratio Lower Upper
117 100
119 95.2 76.2 114.4

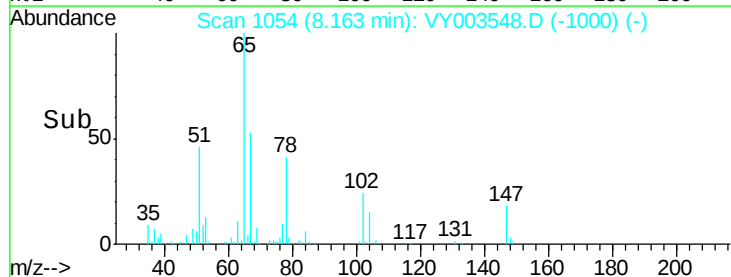
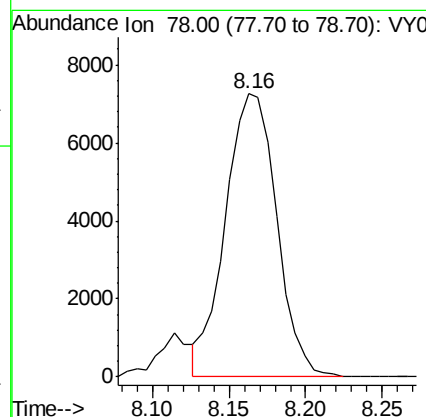
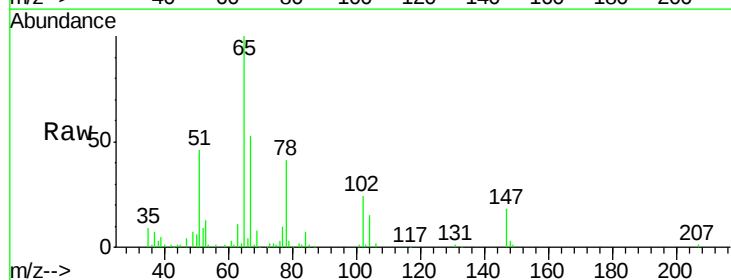
Manual Integrations
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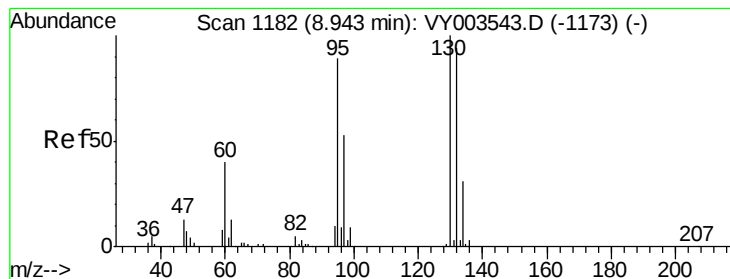
MMDadoda
11/20/2020 10:22:38 AM



#34
Benzene
Concen: 1.263 ug/L
RT: 8.16 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Tgt Ion: 78 Resp: 16895





#35

Trichloroethene

Concen: 1.251 ug/L

RT: 8.94 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

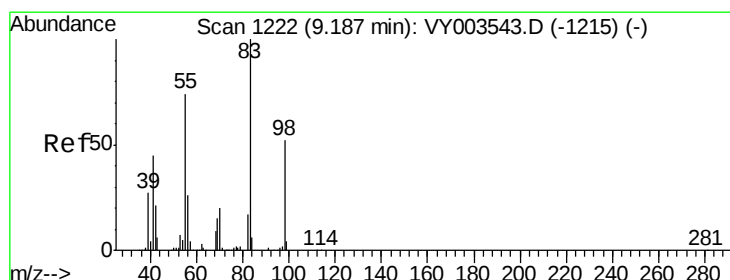
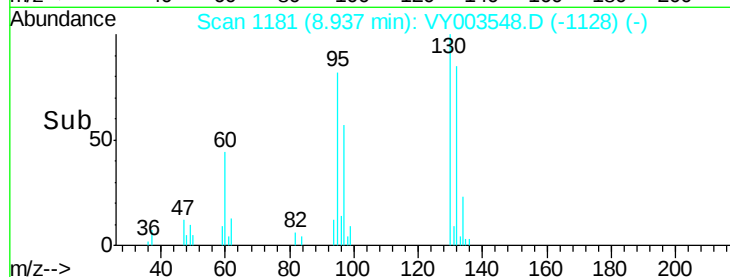
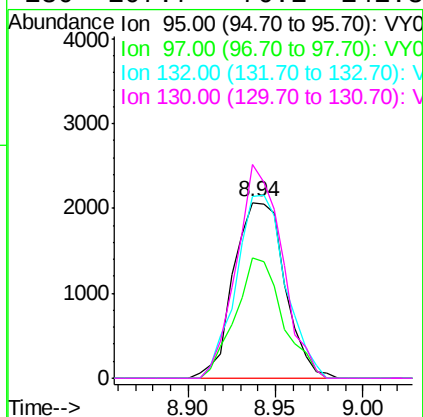
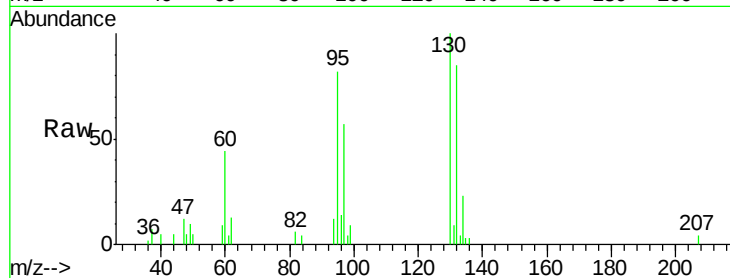
ClientSampleId :

MDL01

Tot Ion:	95	Resp:	4236
Ion	Ratio	Lower	Upper
95	100		
97	63.5	44.5	82.7
132	100.3	73.1	135.7
130	107.7	76.1	141.3

Manual Integrations
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11/20/2020 10:22:38 AM



#36

Methylcyclohexane

Concen: 1.225 ug/L

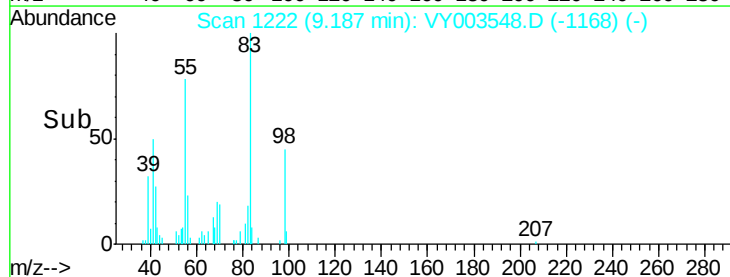
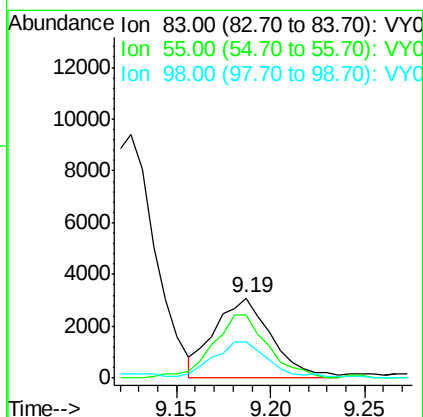
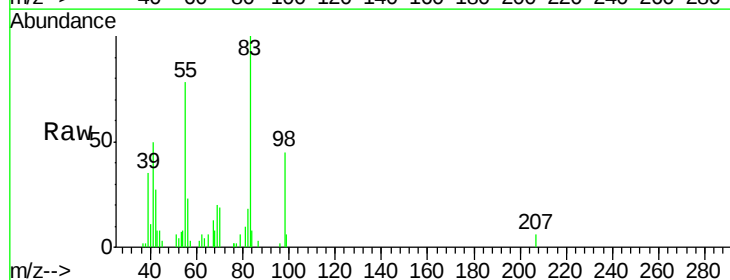
RT: 9.19 min Scan# 1222

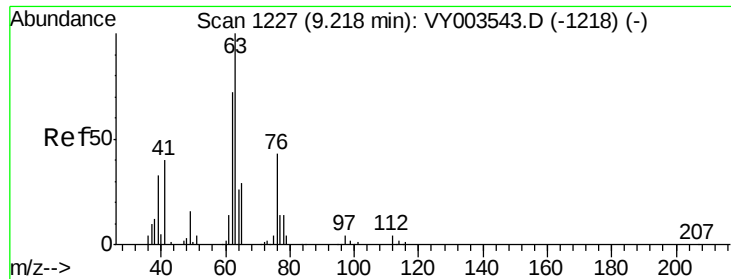
Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tgt Ion:	83	Resp:	6483
Ion	Ratio	Lower	Upper
83	100		
55	76.6	60.8	91.2
98	43.5	40.6	61.0





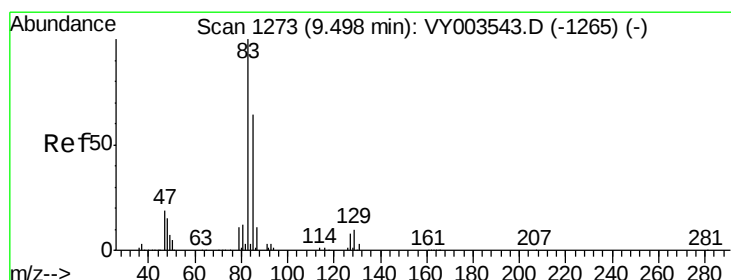
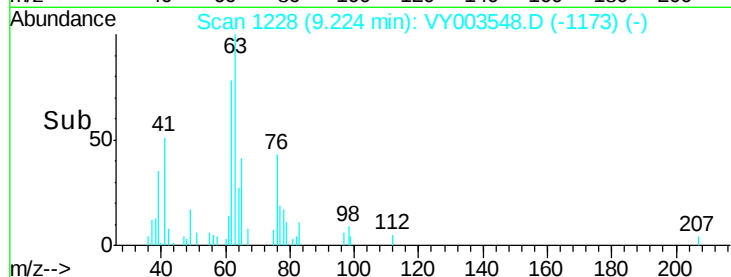
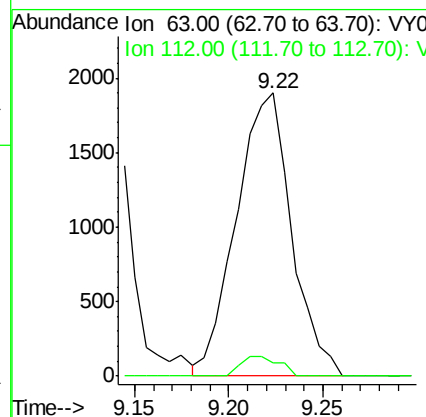
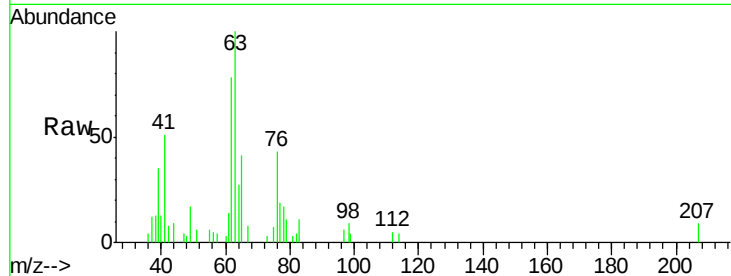
#40
 1,2-Dichloropropane
 Concen: 1.172 ug/L
 RT: 9.22 min Scan# 1228
 Delta R.T. 0.01 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
112	4.9	3.5	5.3

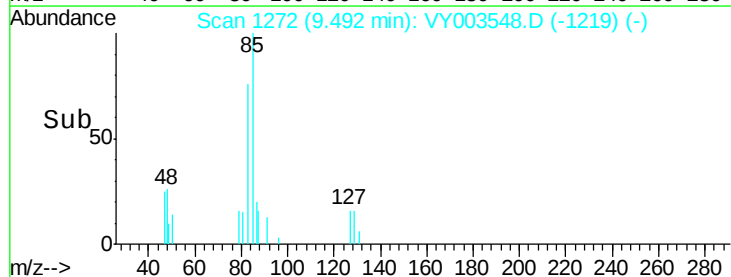
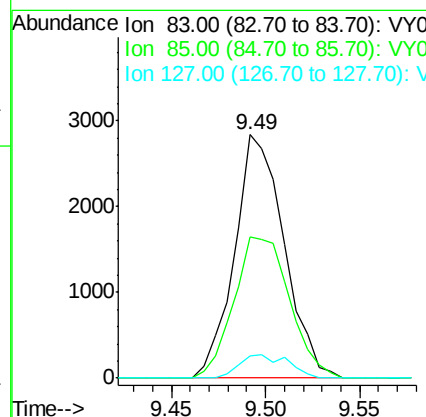
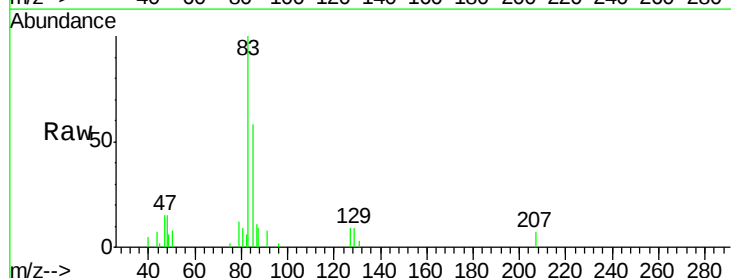
Manual Integrations
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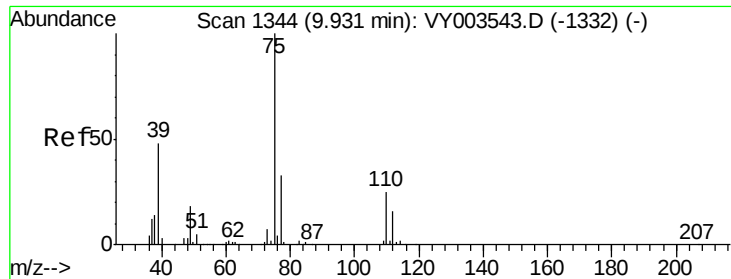
MMDadoda
 11/20/2020 10:22:38 AM



#41
 Bromodichloromethane
 Concen: 1.230 ug/L
 RT: 9.49 min Scan# 1272
 Delta R.T. -0.01 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.9	45.1	83.7
127	9.0	6.8	10.2





#42

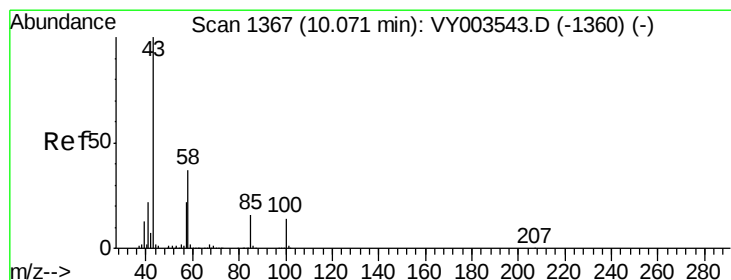
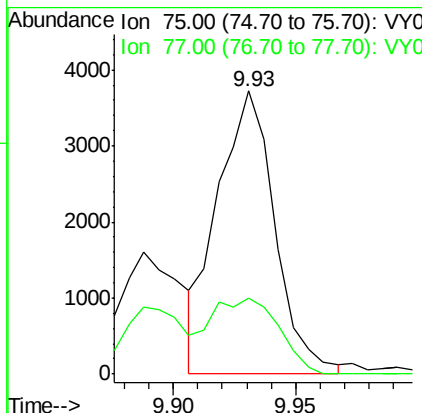
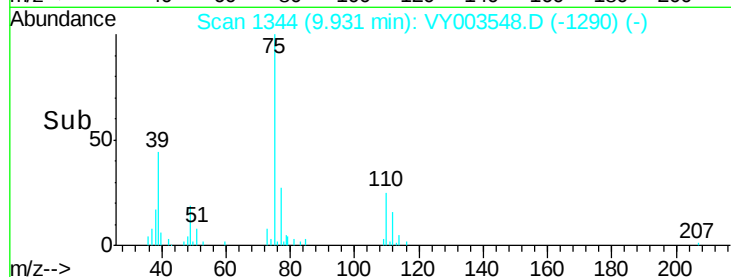
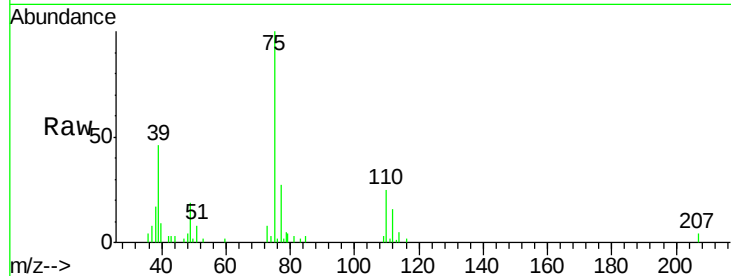
cis-1,3-Dichloropropene
Concen: 1.165 ug/L
RT: 9.93 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
MDL01

Tot Ion: 75 Resp: 6059
Ion Ratio Lower Upper
75 100
77 27.0 23.2 43.0

Manual Integrations
APPROVED

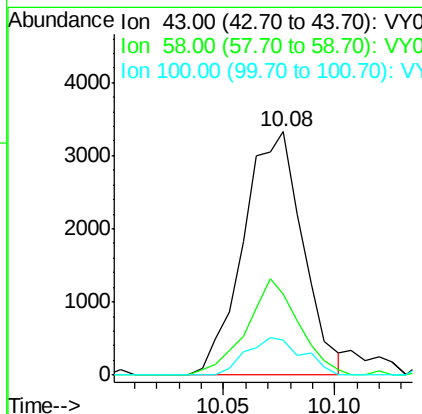
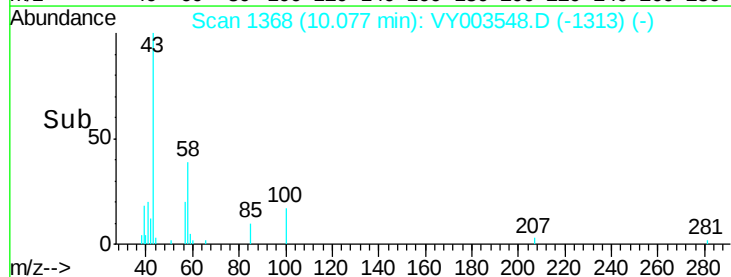
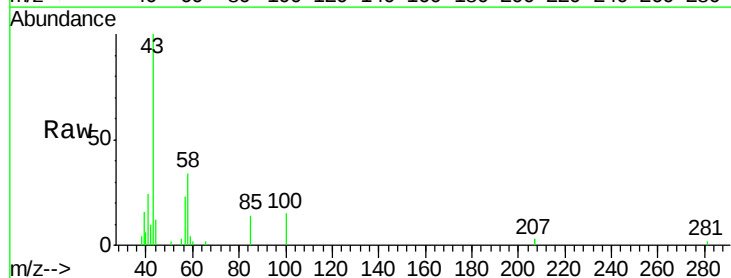
MMDadoda
11/20/2020 10:22:38 AM

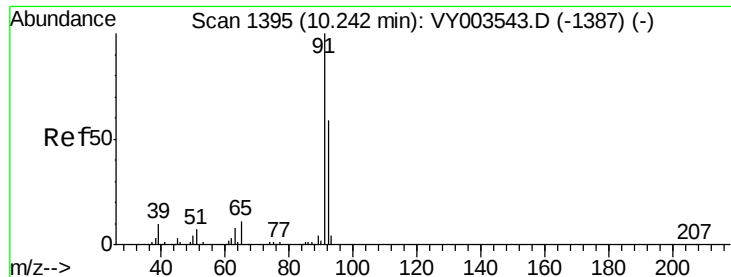


#43

4-Methyl-2-pentanone
Concen: 2.237 ug/L
RT: 10.08 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Tgt Ion: 43 Resp: 6172
Ion Ratio Lower Upper
43 100
58 34.9 30.2 45.2
100 14.5 11.7 17.5





#44

Toluene

Concen: 1.239 ug/L

RT: 10.24 min Scan# 1395

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 17462

Ion Ratio Lower Upper

91 100

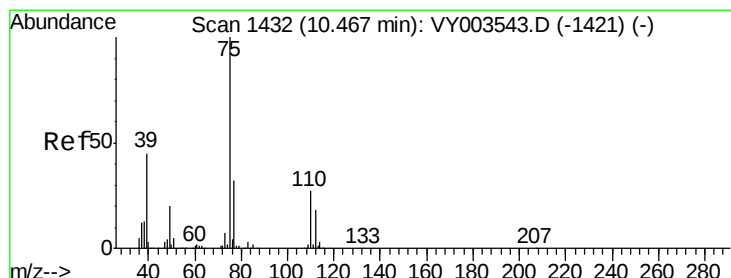
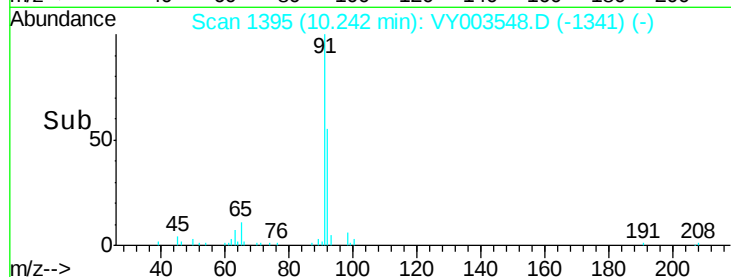
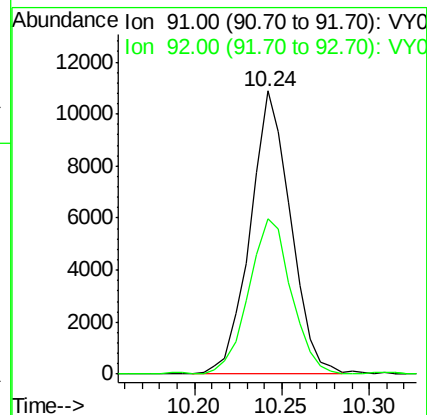
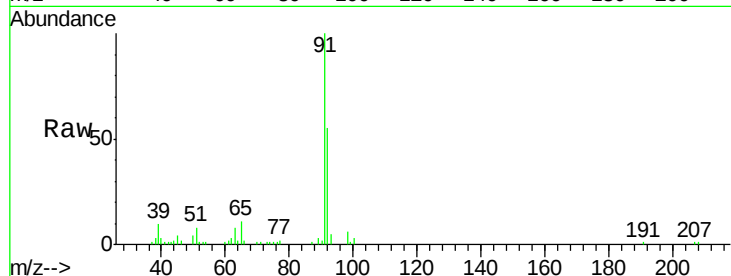
92 55.1 41.0 76.2

Manual Integrations

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MMDadoda

11/20/2020 10:22:38 AM



#45

trans-1,3-Dichloropropene

Concen: 1.207 ug/L

RT: 10.46 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VY003548.D

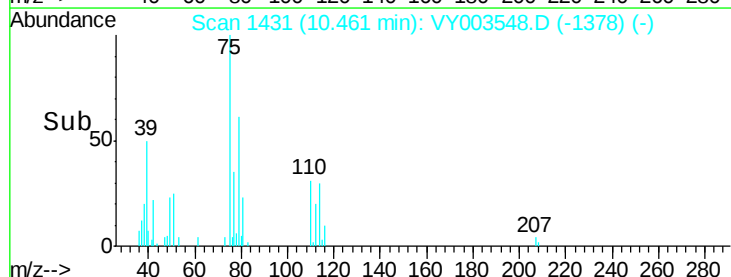
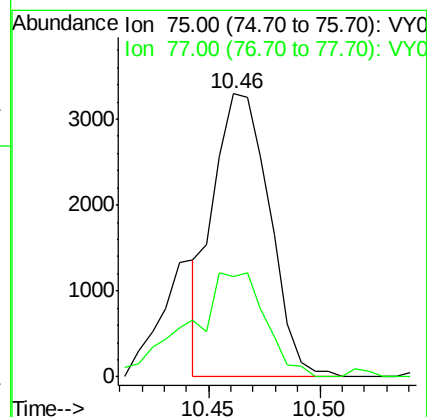
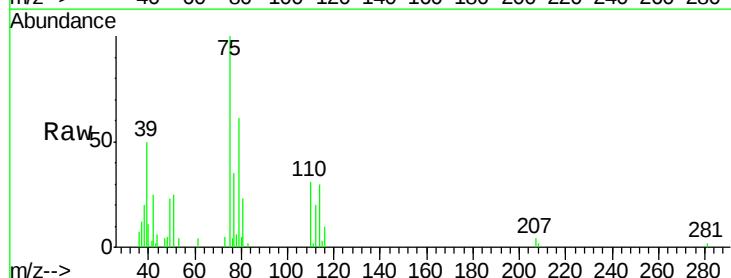
Acq: 19 Nov 2020 15:19

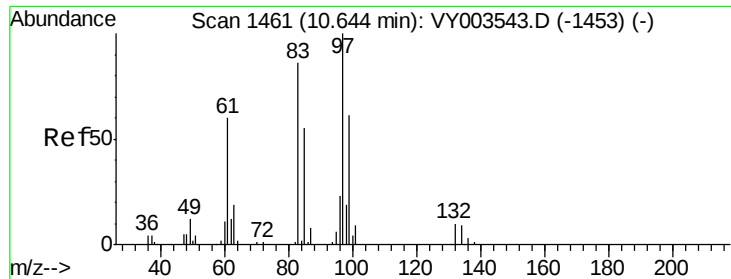
Tgt Ion: 75 Resp: 5782

Ion Ratio Lower Upper

75 100

77 35.3 22.1 41.1





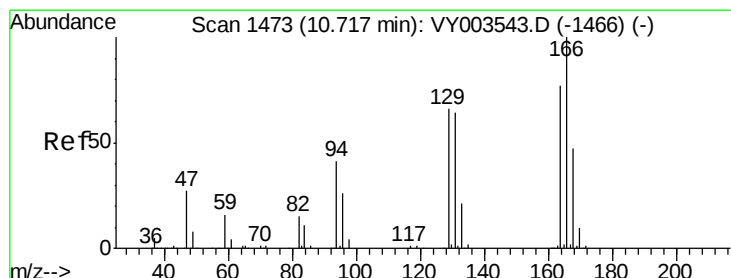
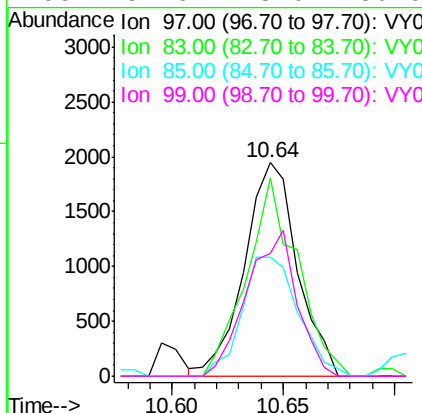
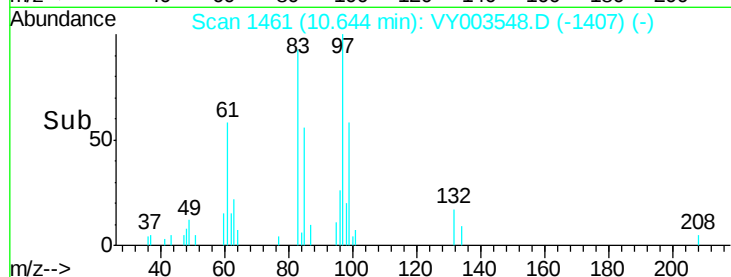
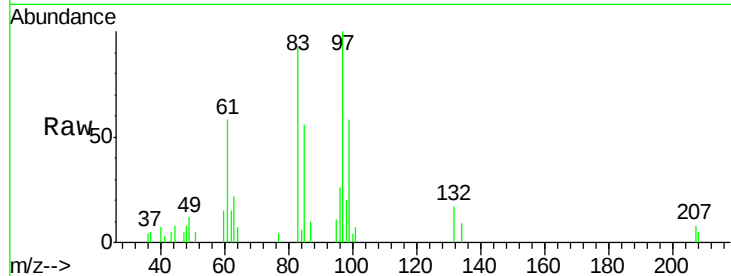
#46
1,1,2-Trichloroethane
Concen: 1.227 ug/L
RT: 10.64 min Scan# 1461
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.1	60.1	111.5
85	55.7	38.9	72.2
99	57.6	43.0	80.0

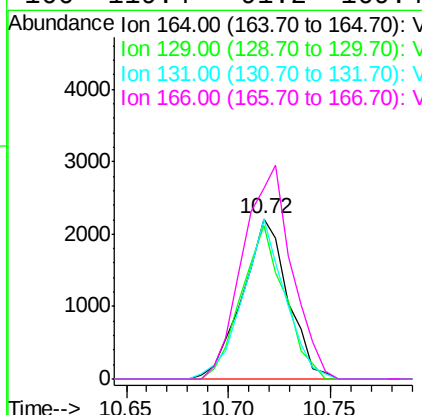
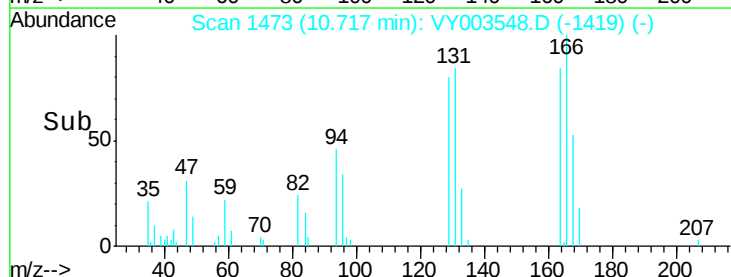
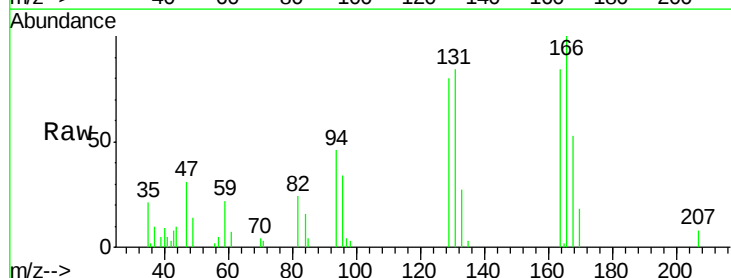
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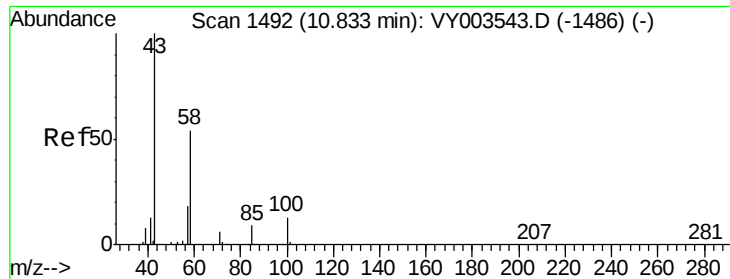
MMDadoda
11/20/2020 10:22:38 AM



#47
Tetrachloroethene
Concen: 1.167 ug/L
RT: 10.72 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
164	100		
129	96.1	60.6	112.6
131	100.2	58.7	109.1
166	119.4	91.2	169.4





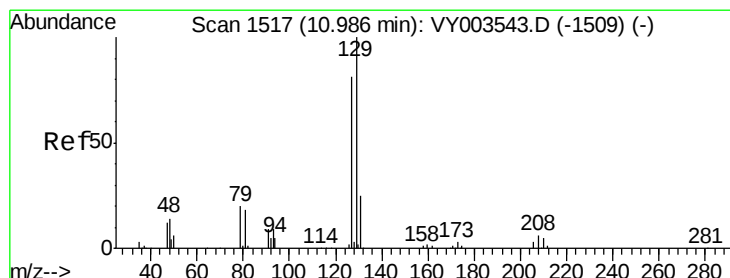
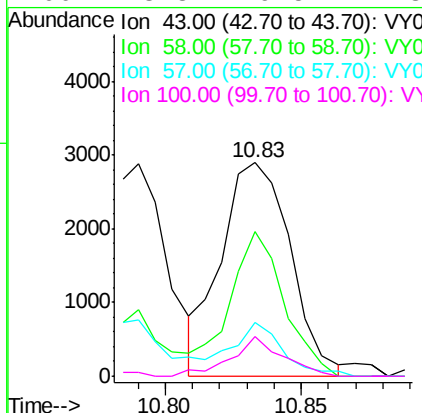
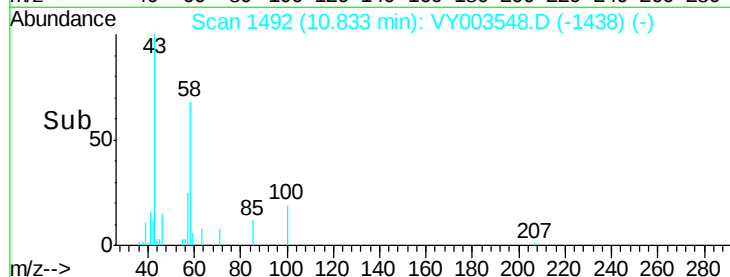
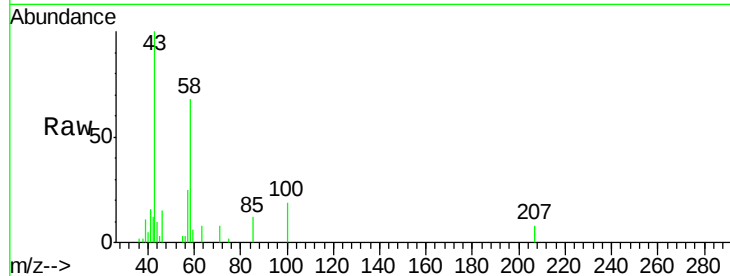
#49
2-Hexanone
Concen: 2.351 ug/L
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Instrument :
MSVOA_Y
ClientSampleId :
MDL01

Tot Ion:	43	Resp:	5123
Ion	Ratio	Lower	Upper
43	100		
58	53.2	42.1	63.1
57	18.4	14.2	21.2
100	13.8	9.5	14.3

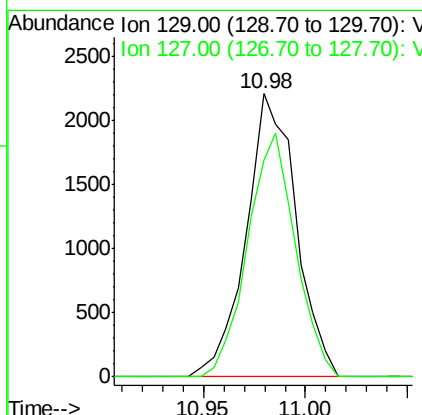
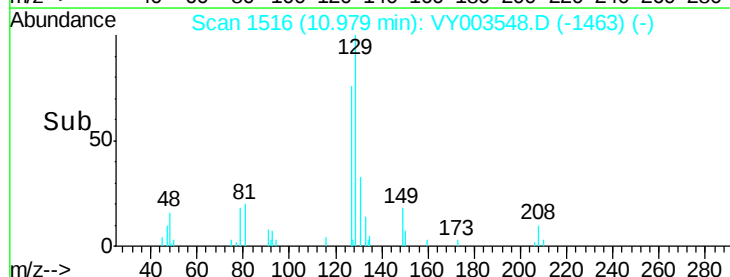
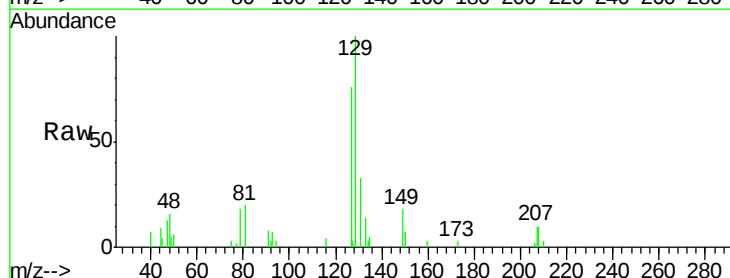
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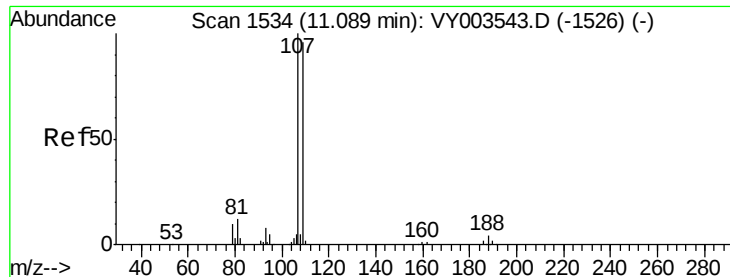
MMDadoda
11/20/2020 10:22:38 AM



#50
Dibromochloromethane
Concen: 1.188 ug/L
RT: 10.98 min Scan# 1516
Delta R.T. -0.01 min
Lab File: VY003548.D
Acq: 19 Nov 2020 15:19

Tgt Ion:	129	Resp:	3773
Ion	Ratio	Lower	Upper
129	100		
127	79.3	56.6	105.0





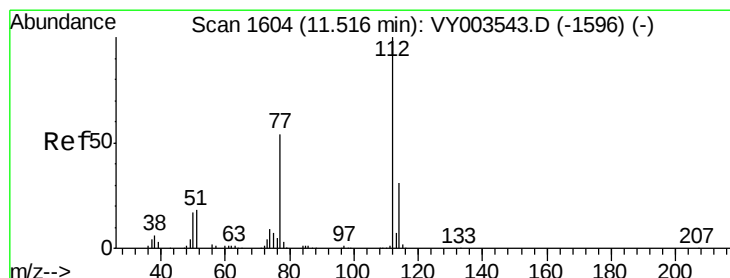
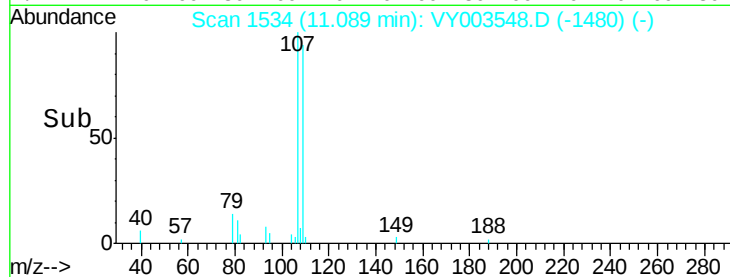
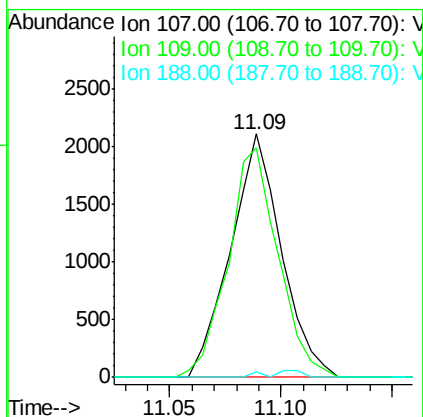
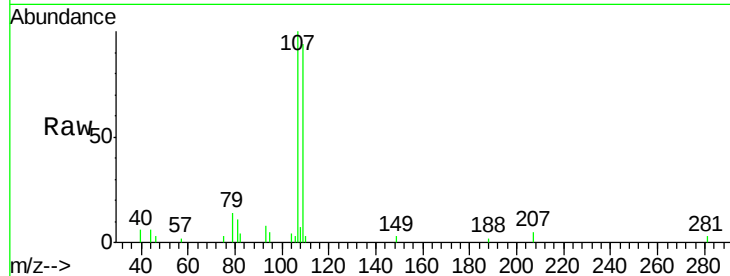
#51
 1,2-Dibromoethane
 Concen: 1.272 ug/L
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	66.8	124.2
188	2.5	3.3	4.9#

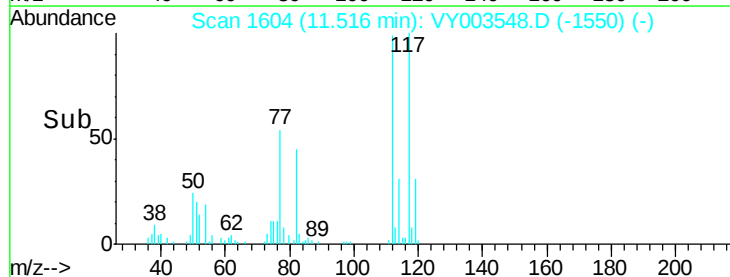
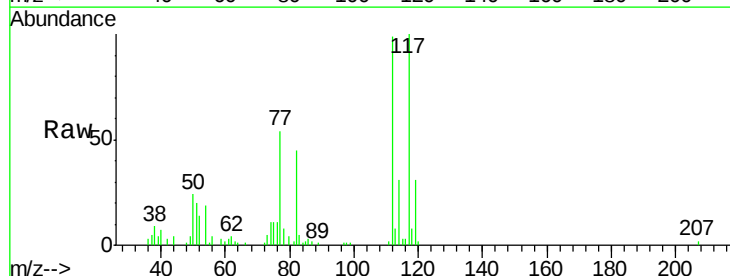
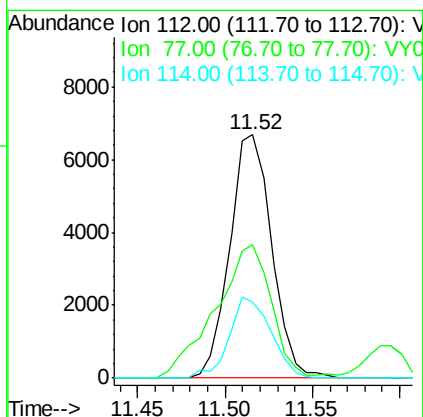
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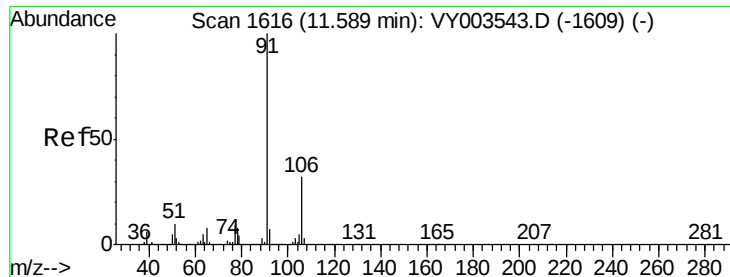
MMDadoda
 11/20/2020 10:22:38 AM



#52
 Chlorobenzene
 Concen: 1.242 ug/L
 RT: 11.52 min Scan# 1604
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
112	100		
77	54.6	43.3	64.9
114	31.0	21.9	40.7





#53

Ethylbenzene

Concen: 1.118 ug/L

RT: 11.59 min Scan# 1616

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 16182

Ion Ratio Lower Upper

91 100

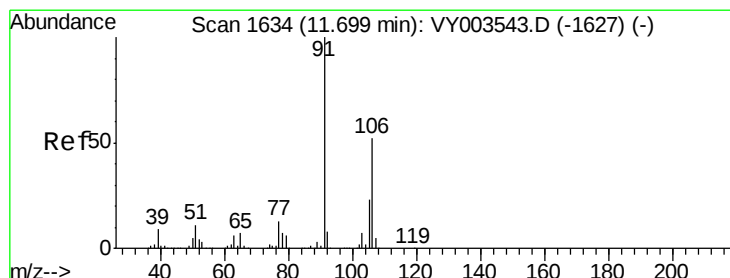
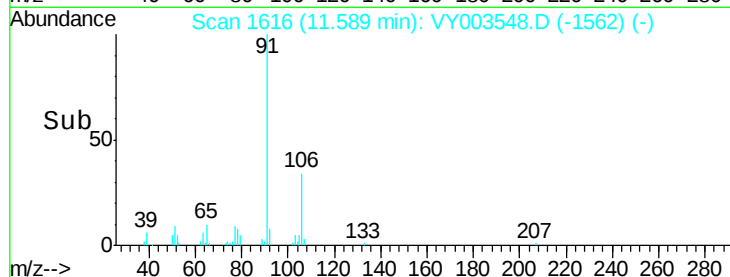
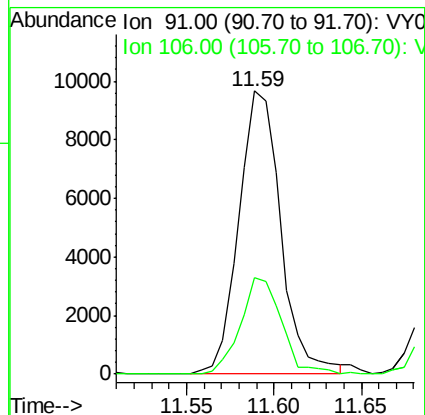
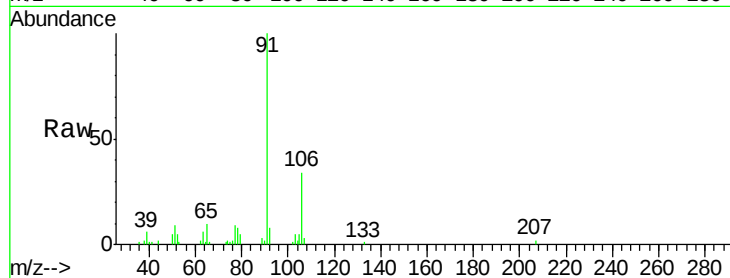
106 34.3 22.5 41.7

Manual Integrations

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#54

m,p-Xylene

Concen: 1.154 ug/L

RT: 11.70 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VY003548.D

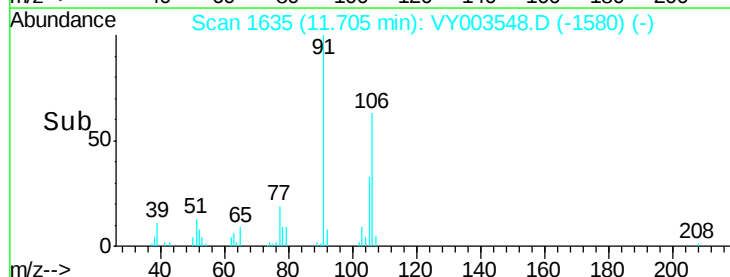
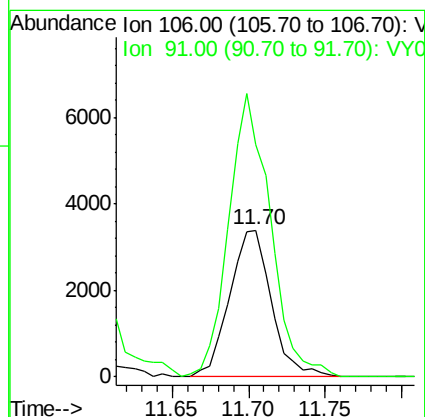
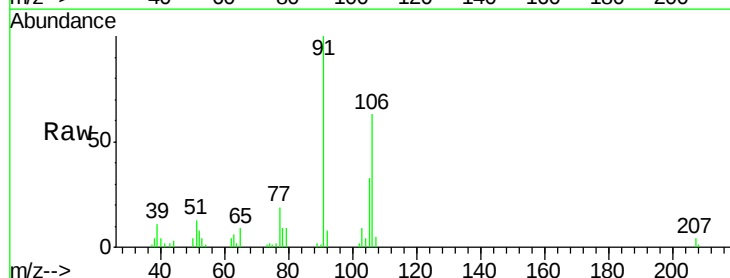
Acq: 19 Nov 2020 15:19

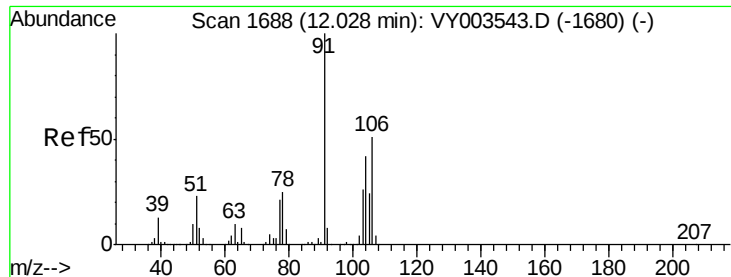
Tgt Ion: 106 Resp: 6431

Ion Ratio Lower Upper

106 100

91 158.6 135.6 251.8





#55

o-xylene

Concen: 1.169 ug/L

RT: 12.02 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

ClientSampleId :

MDL01

Tot Ion:106 Resp: 5438

Ion Ratio Lower Upper

106 100

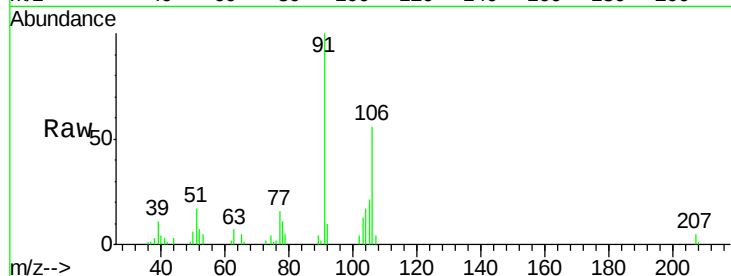
91 178.4 138.3 256.8

Manual Integrations

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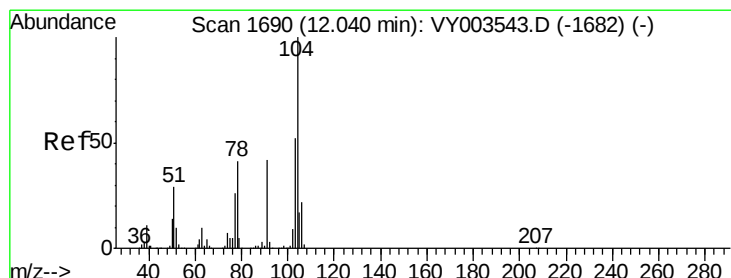
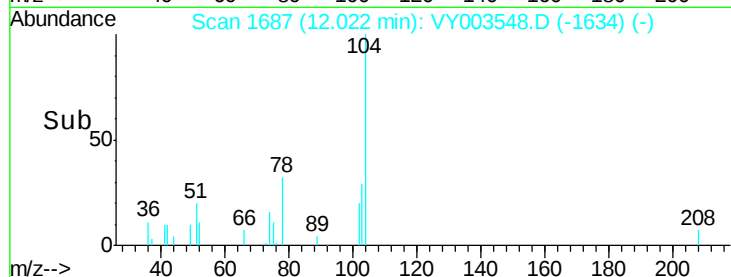
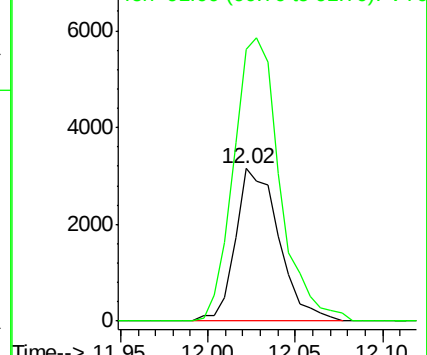
MMDadoda

11/20/2020 10:22:38 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#56

Styrene

Concen: 1.071 ug/L

RT: 12.04 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VY003548.D

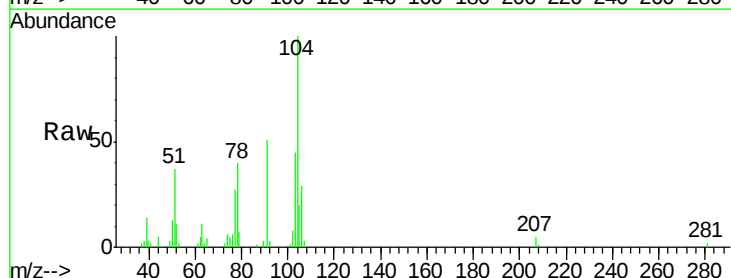
Acq: 19 Nov 2020 15:19

Tgt Ion:104 Resp: 9756

Ion Ratio Lower Upper

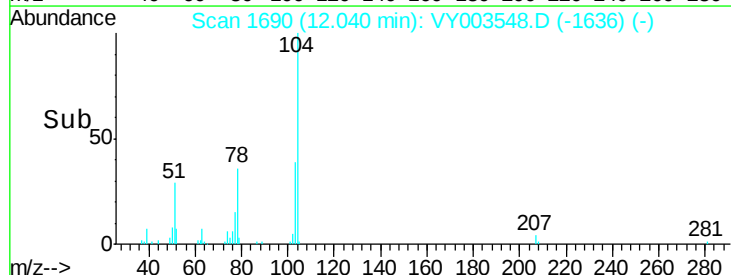
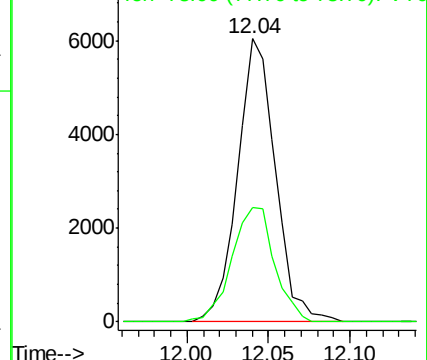
104 100

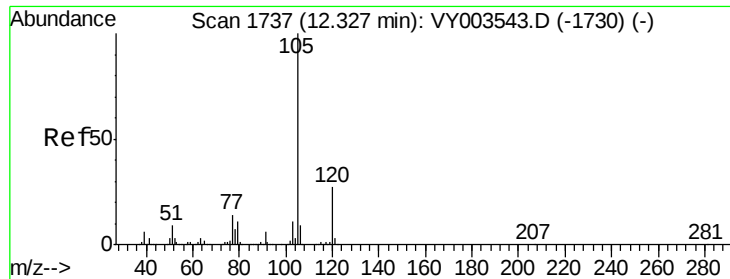
78 40.4 28.8 53.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0





#57

Isopropylbenzene

Concen: 1.076 ug/L

RT: 12.33 min Scan# 1738

Delta R.T. 0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

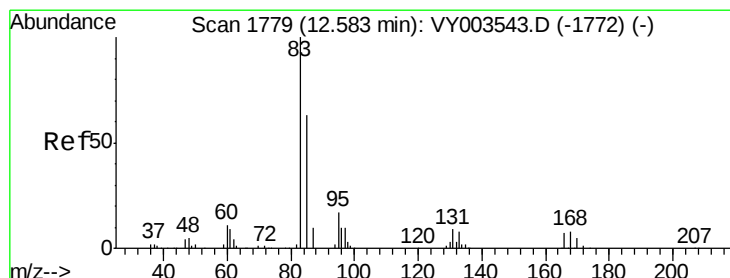
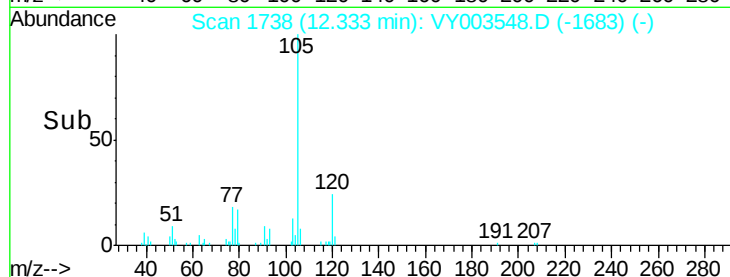
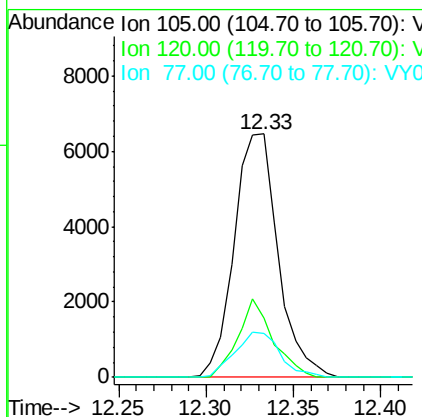
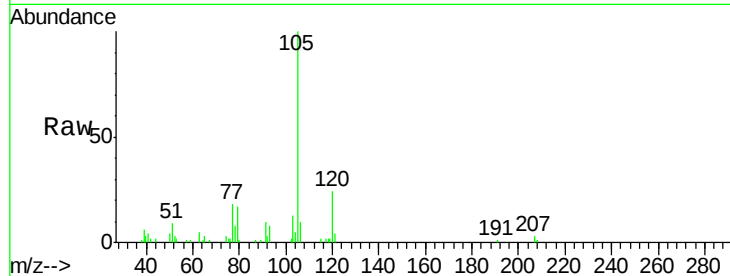
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	11325
Ion Ratio	Lower	Upper	
105	100		
120	25.5	21.7	32.5
77	19.1	12.1	18.1#

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#58

1,1,2,2-Tetrachloroethane

Concen: 1.313 ug/L

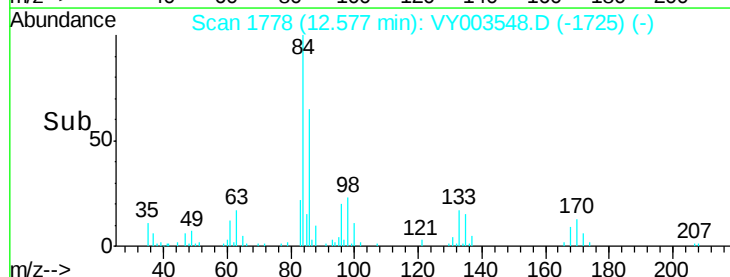
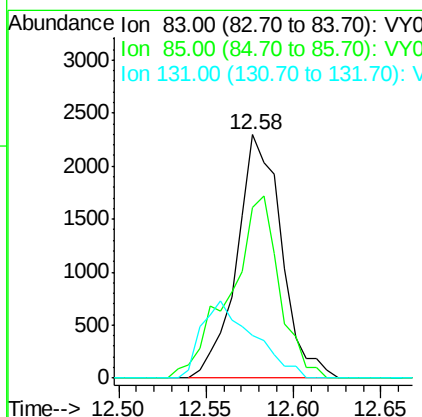
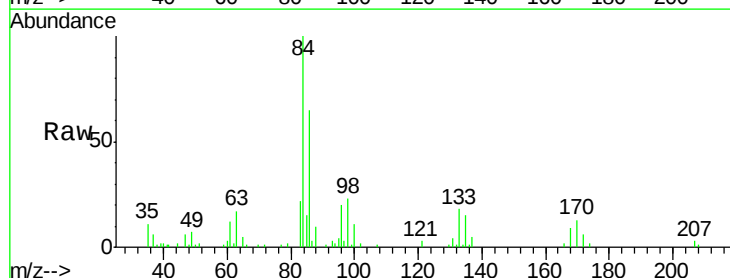
RT: 12.58 min Scan# 1778

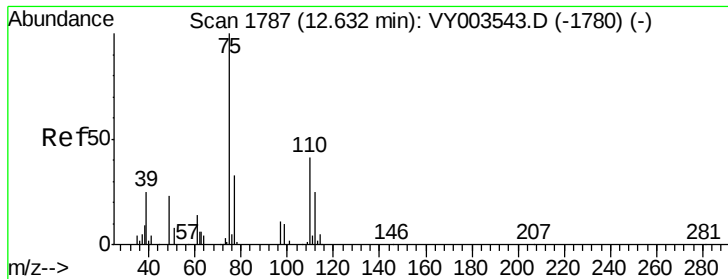
Delta R.T. -0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tgt Ion:	83	Resp:	4079
Ion Ratio	Lower	Upper	
83	100		
85	70.2	44.8	83.2
131	17.4	7.3	10.9#





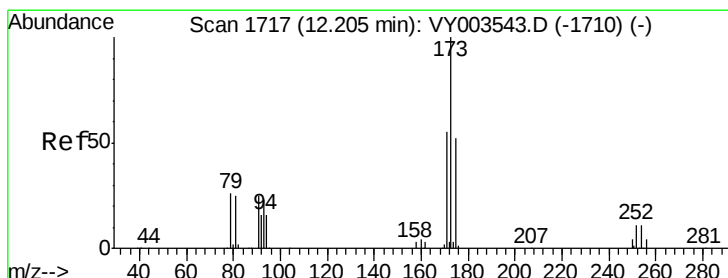
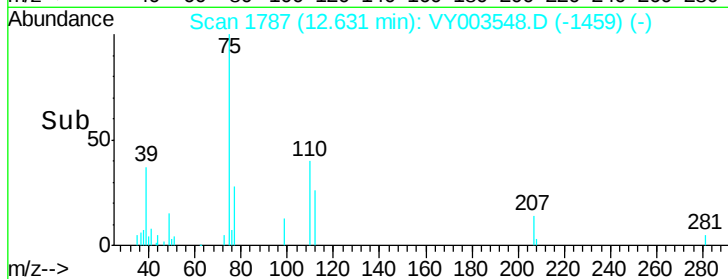
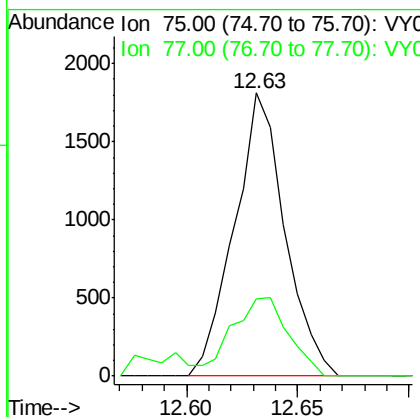
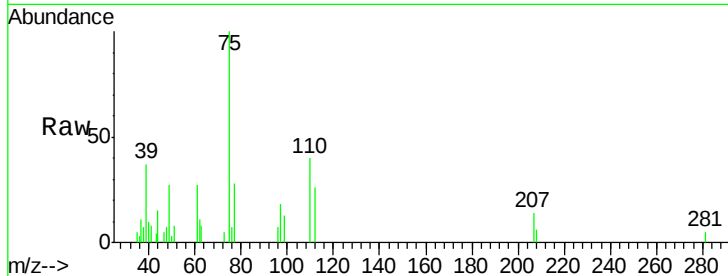
#59
 1,2,3-Trichloropropane
 Concen: 1.186 ug/L
 RT: 12.63 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.2	39.2

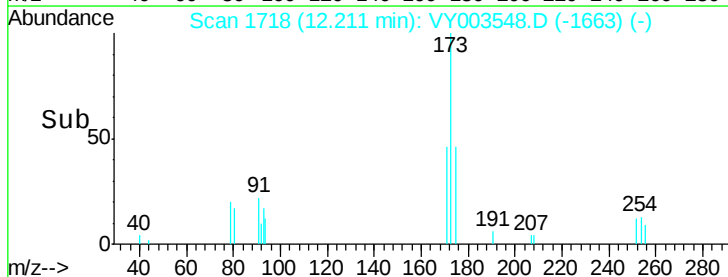
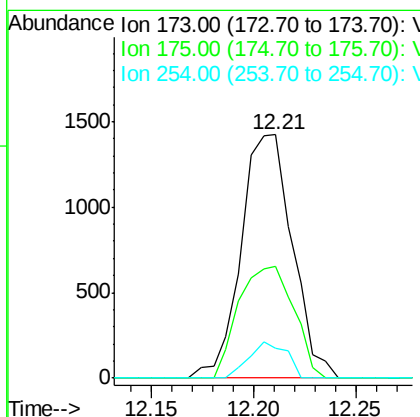
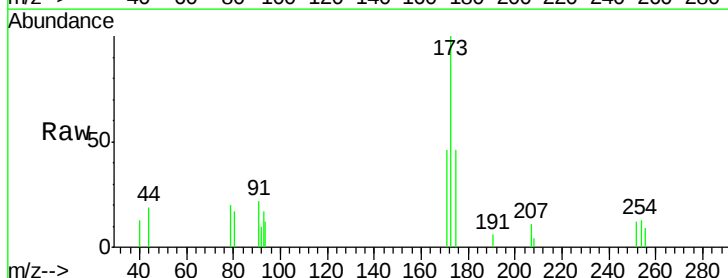
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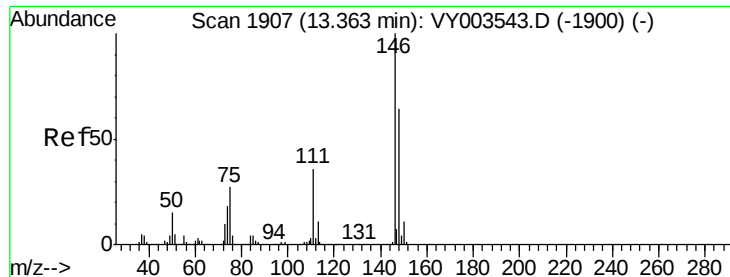
MMDadoda
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#62
 Bromoform
 Concen: 1.247 ug/L
 RT: 12.21 min Scan# 1718
 Delta R.T. 0.01 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.1	39.5	59.3
254	11.0	8.6	12.8





#63

1,3-Dichlorobenzene

Concen: 1.336 ug/L

RT: 13.36 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

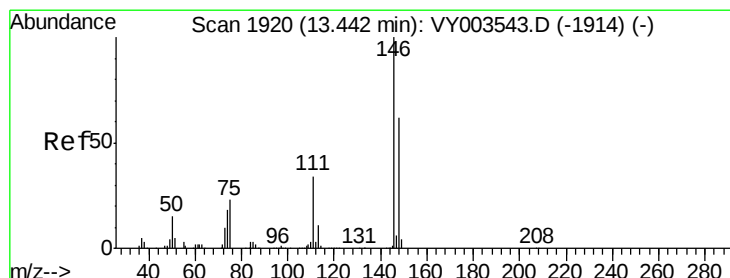
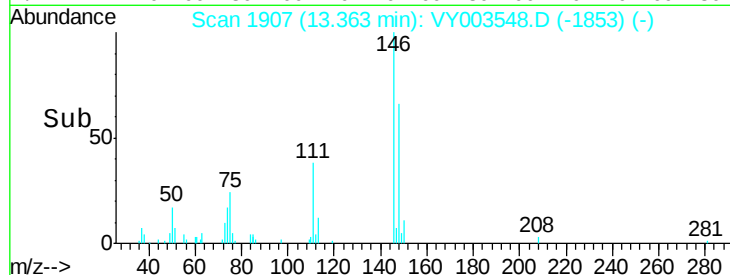
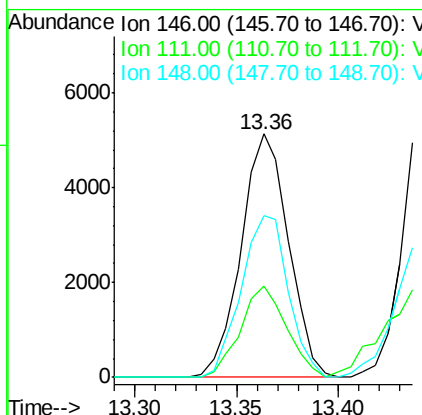
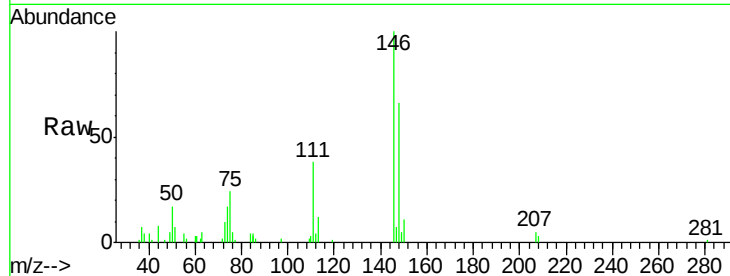
ClientSampleId :

MDL01

Tot Ion:	146	Resp:	8300
Ion Ratio	Lower	Upper	
146	100		
111	37.6	25.1	46.5
148	66.2	44.7	82.9

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#64

1,4-Dichlorobenzene

Concen: 1.368 ug/L

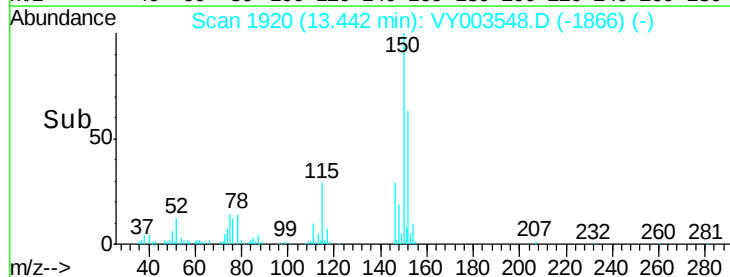
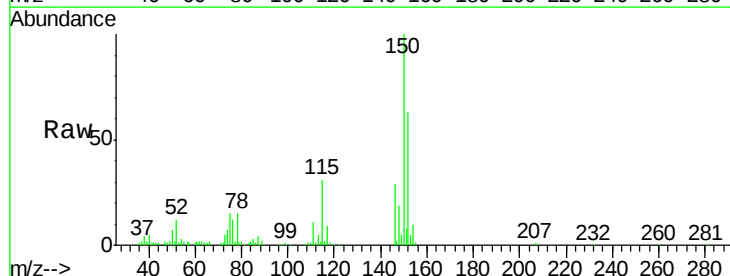
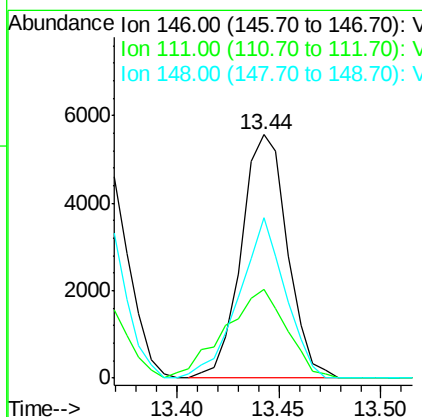
RT: 13.44 min Scan# 1920

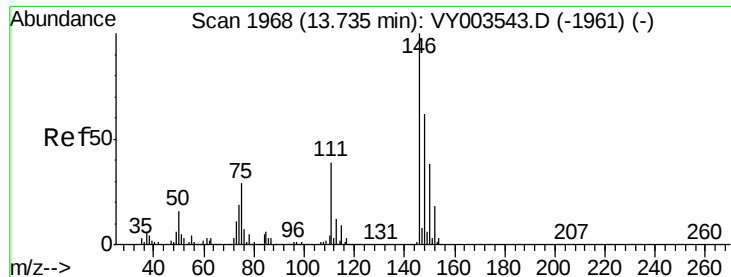
Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tgt Ion:	146	Resp:	8751
Ion Ratio	Lower	Upper	
146	100		
111	36.6	24.1	44.8
148	65.8	43.6	81.0





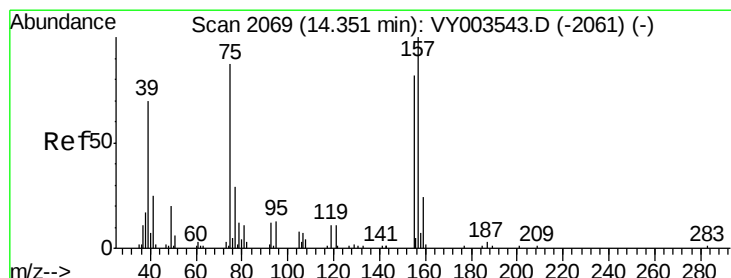
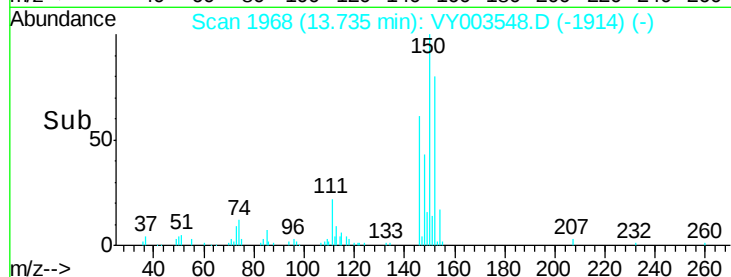
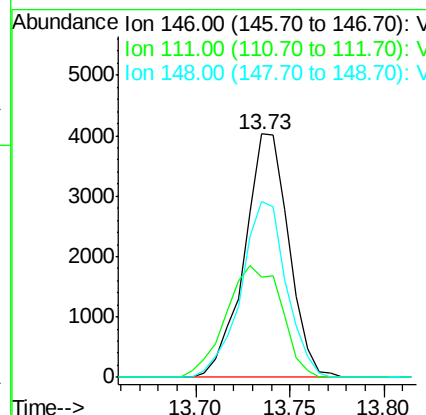
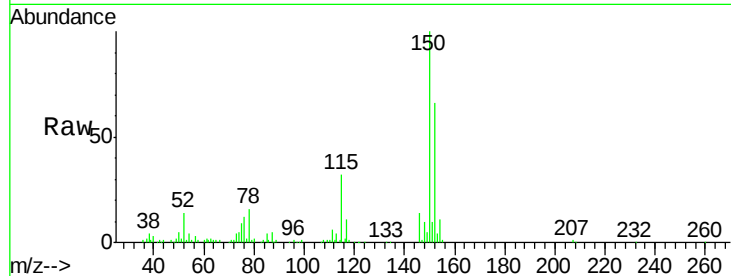
#65
 1,2-Dichlorobenzene
 Concen: 1.288 ug/L
 RT: 13.73 min Scan# 1968
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	31.0	46.6
148	72.1	49.8	74.8

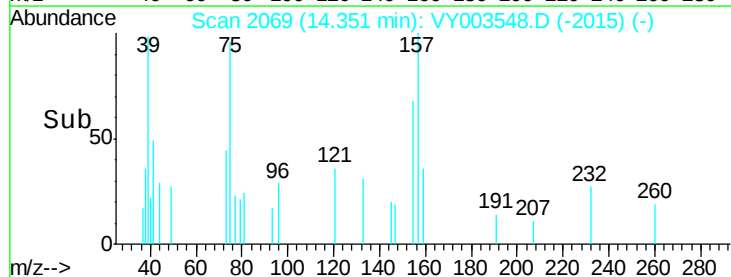
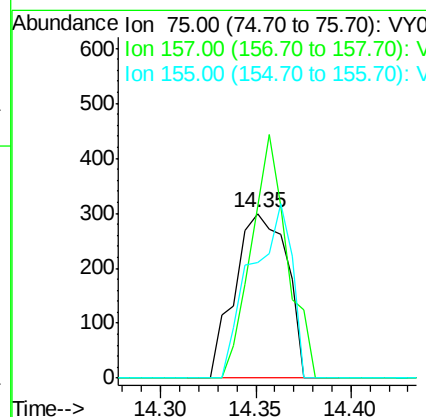
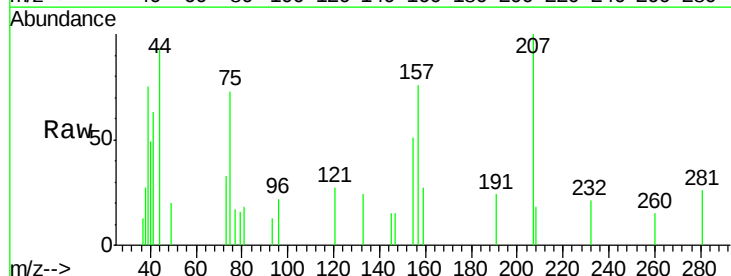
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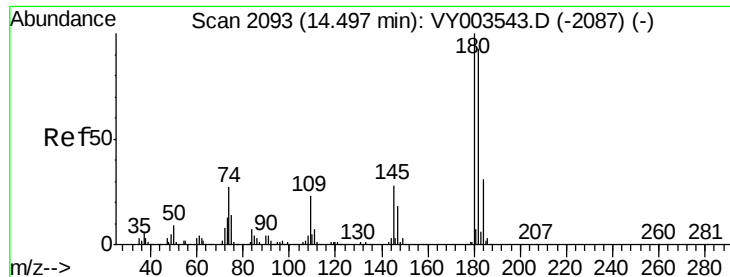
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.283 ug/L m
 RT: 14.35 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
75	100		
157	104.3	91.8	137.6
155	70.6	75.7	113.5#





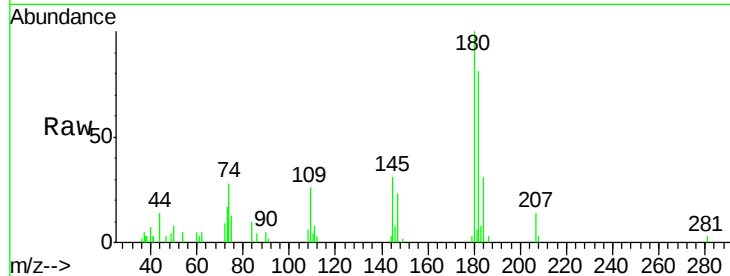
#67
 1,3,5-Trichlorobenzene
 Concen: 1.295 ug/L
 RT: 14.50 min Scan# 2094
 Delta R.T. 0.01 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.2	77.3	115.9
184	29.4	24.4	36.6
145	27.9	22.4	33.6

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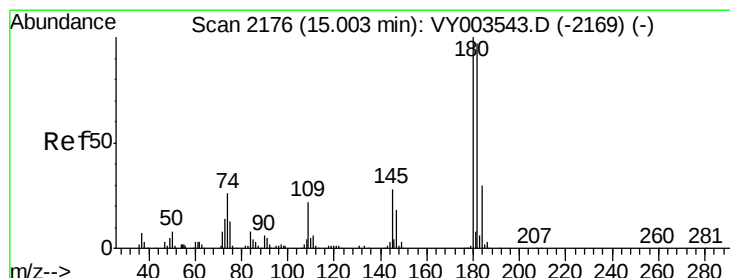
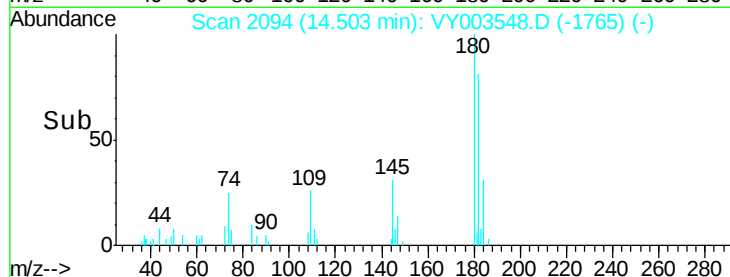
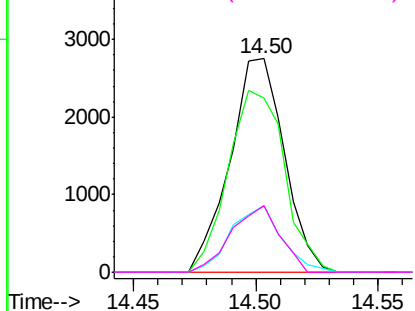
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

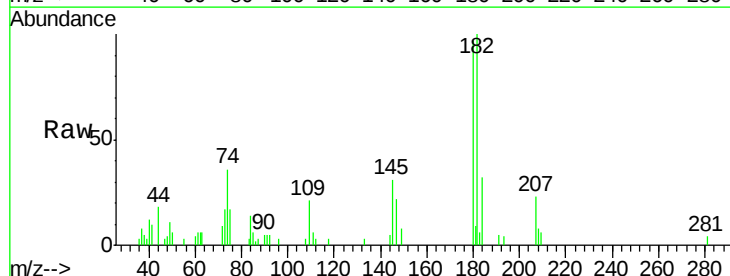
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.182 ug/L
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VY003548.D
 Acq: 19 Nov 2020 15:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.2	76.5	114.7
145	31.8	22.8	34.2

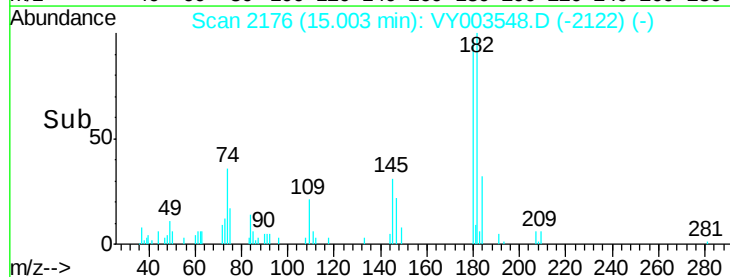
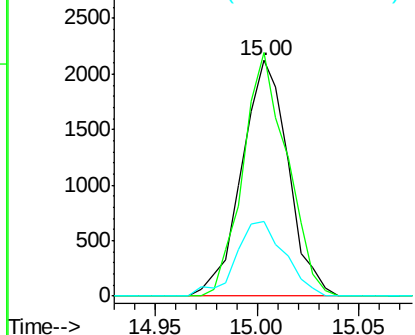


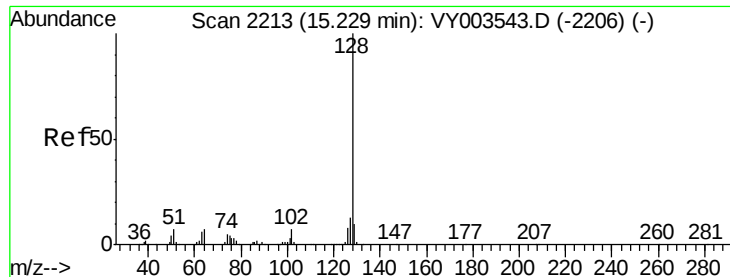
Abundance

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





#69

Naphthalene

Concen: 1.163 ug/L

RT: 15.23 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Instrument :

MSVOA_Y

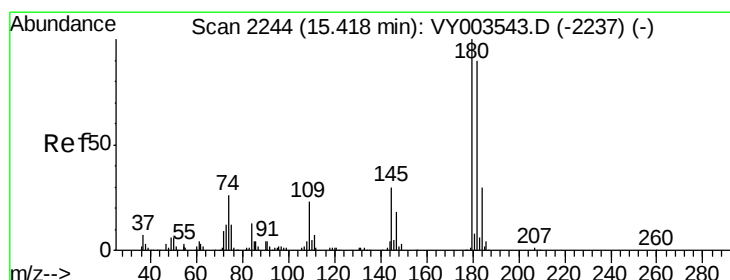
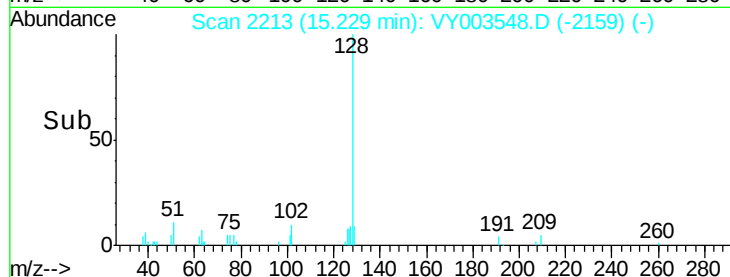
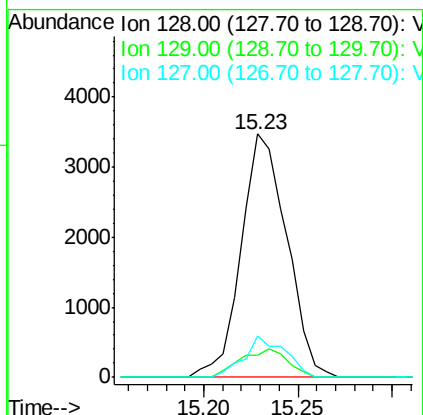
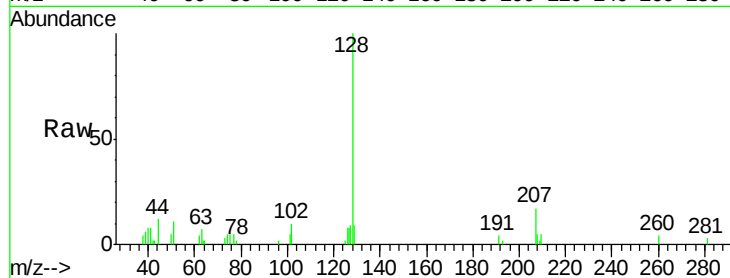
ClientSampleId :

MDL01

Tot Ion:	128	Resp:	5827
Ion Ratio	Lower	Upper	
128	100		
129	12.2	8.5	12.7
127	15.2	10.2	15.2

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#70

1,2,3-Trichlorobenzene

Concen: 1.228 ug/L

RT: 15.42 min Scan# 2245

Delta R.T. 0.01 min

Lab File: VY003548.D

Acq: 19 Nov 2020 15:19

Tgt Ion:	180	Resp:	2636
Ion Ratio	Lower	Upper	
180	100		
182	97.6	76.5	114.7
145	31.0	25.2	37.8

