

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111419\
 Data File : VY000683.D
 Acq On : 14 Nov 2019 20:04
 Operator : SY/MD
 Sample : MDL4
 Misc : 5ML/MSVOA Y/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL4

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 3:05:11 PM

Quant Time: Nov 15 12:14:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOMYLM111419WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 15 12:09:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	310325	50.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	281217	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	129462	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	124193	50.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.90%
7) Chloroethane-d5	2.76	69	106462	52.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.96%
11) 1,1-Dichloroethene-d2	3.85	63	166550	39.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.52%
21) 2-Butanone-d5	6.91	46	116559	121.22	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	121.22%
24) Chloroform-d	7.49	84	202729	57.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.42%
26) 1,2-Dichloroethane-d4	8.15	65	135566	54.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.40%
32) Benzene-d6	8.12	84	427153	54.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.64%
36) 1,2-Dichloropropane-d6	9.13	67	133481	55.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.02%
41) Toluene-d8	10.18	98	378082	51.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.84%
43) trans-1,3-Dichloropropene-	10.44	79	65342	53.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.64%
47) 2-Hexanone-d5	10.79	63	81442	113.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.85%
57) 1,1,2,2-Tetrachloroethane-	12.56	84	149744	52.32	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.64%
64) 1,2-Dichlorobenzene-d4	13.72	152	137660	54.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.92%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.90	85	2683	1.514 ug/L	93
3) Chloromethane	2.11	50	4714	2.000 ug/L	89
5) Vinyl chloride	2.25	62	4907	2.077 ug/L #	57
6) Bromomethane	2.66	94	2848	2.096 ug/L	93
9) Trichlorofluoromethane	3.13	101	5777	1.656 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	3.91	101	3602m	1.850 ug/L	
12) 1,1-Dichloroethene	3.86	96	5197	2.668 ug/L #	1
13) Acetone	3.96	43	4040	5.836 ug/L	69
14) Carbon disulfide	4.19	76	10642	1.981 ug/L #	95
15) Methyl Acetate	4.48	43	3507	2.016 ug/L #	61
16) Methylene chloride	4.72	84	4869	2.338 ug/L #	78
17) trans-1,2-Dichloroethene	5.22	96	3807m	1.872 ug/L	
18) Methyl tert-butyl Ether	5.23	73	12241m	1.999 ug/L	
19) 1,1-Dichloroethane	6.02	63	7281	1.991 ug/L	98
20) cis-1,2-Dichloroethene	7.00	96	4539m	1.991 ug/L	
22) 2-Butanone	7.00	43	4905	4.503 ug/L #	70
23) Bromochloromethane	7.35	128	1702	1.619 ug/L #	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.52	83	11959	2.857	ug/L	85
27) 1,2-Dichloroethane	8.24	62	6194	2.167	ug/L #	92
29) Cyclohexane	7.79	56	4679	1.425	ug/L #	82
30) 1,1,1-Trichloroethane	7.72	97	5382	1.752	ug/L	92
31) Carbon tetrachloride	7.91	117	4604m	1.674	ug/L	
33) Benzene	8.17	78	15925	1.901	ug/L	100
34) Trichloroethene	8.94	95	4159	1.977	ug/L	82
35) Methylcyclohexane	9.19	83	4439	1.278	ug/L #	88
37) 1,2-Dichloropropane	9.22	63	4223	2.032	ug/L #	88
38) Bromodichloromethane	9.50	83	5472	1.960	ug/L #	98
39) cis-1,3-Dichloropropene	9.93	75	6597	1.868	ug/L	83
40) 4-Methyl-2-pentanone	10.08	43	8763	3.676	ug/L #	94
42) Toluene	10.24	91	16958	1.912	ug/L	94
44) trans-1,3-Dichloropropene	10.47	75	5837m	1.888	ug/L	
45) 1,1,2-Trichloroethane	10.64	97	4125	2.092	ug/L	93
46) Tetrachloroethene	10.72	164	3236	1.988	ug/L #	89
48) 2-Hexanone	10.83	43	8736	5.076	ug/L	99
49) Dibromochloromethane	10.98	129	4043	1.893	ug/L	80
50) 1,2-Dibromoethane	11.08	107	4160	2.108	ug/L	91
51) Chlorobenzene	11.51	112	10963	1.919	ug/L	94
52) Ethylbenzene	11.59	91	16465	1.627	ug/L	94
53) m,p-Xylene	11.70	106	7026	1.805	ug/L	81
54) o-xylene	12.02	106	6484	1.699	ug/L	80
55) Styrene	12.04	104	10472	1.615	ug/L	99
56) Isopropylbenzene	12.33	105	15124	1.549	ug/L	97
58) 1,1,2,2-Tetrachloroethane	12.58	83	5986	2.146	ug/L #	92
59) 1,2,3-Trichloropropane	12.63	75	4103	1.860	ug/L	97
61) Bromoform	12.20	173	2450	1.869	ug/L #	97
62) 1,3-Dichlorobenzene	13.36	146	8193	2.018	ug/L	89
63) 1,4-Dichlorobenzene	13.44	146	8658	2.081	ug/L	93
65) 1,2-Dichlorobenzene	13.73	146	8598	2.150	ug/L #	77
66) 1,2-Dibromo-3-chloropropan	14.35	75	999m	2.068	ug/L	
67) 1,3,5-Trichlorobenzene	14.50	180	5518	1.947	ug/L	96
68) 1,2,4-trichlorobenzene	15.00	180	5084	1.913	ug/L	95
69) Naphthalene	15.23	128	15484	1.949	ug/L	98
70) 1,2,3-Trichlorobenzene	15.42	180	5004	1.956	ug/L	97

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

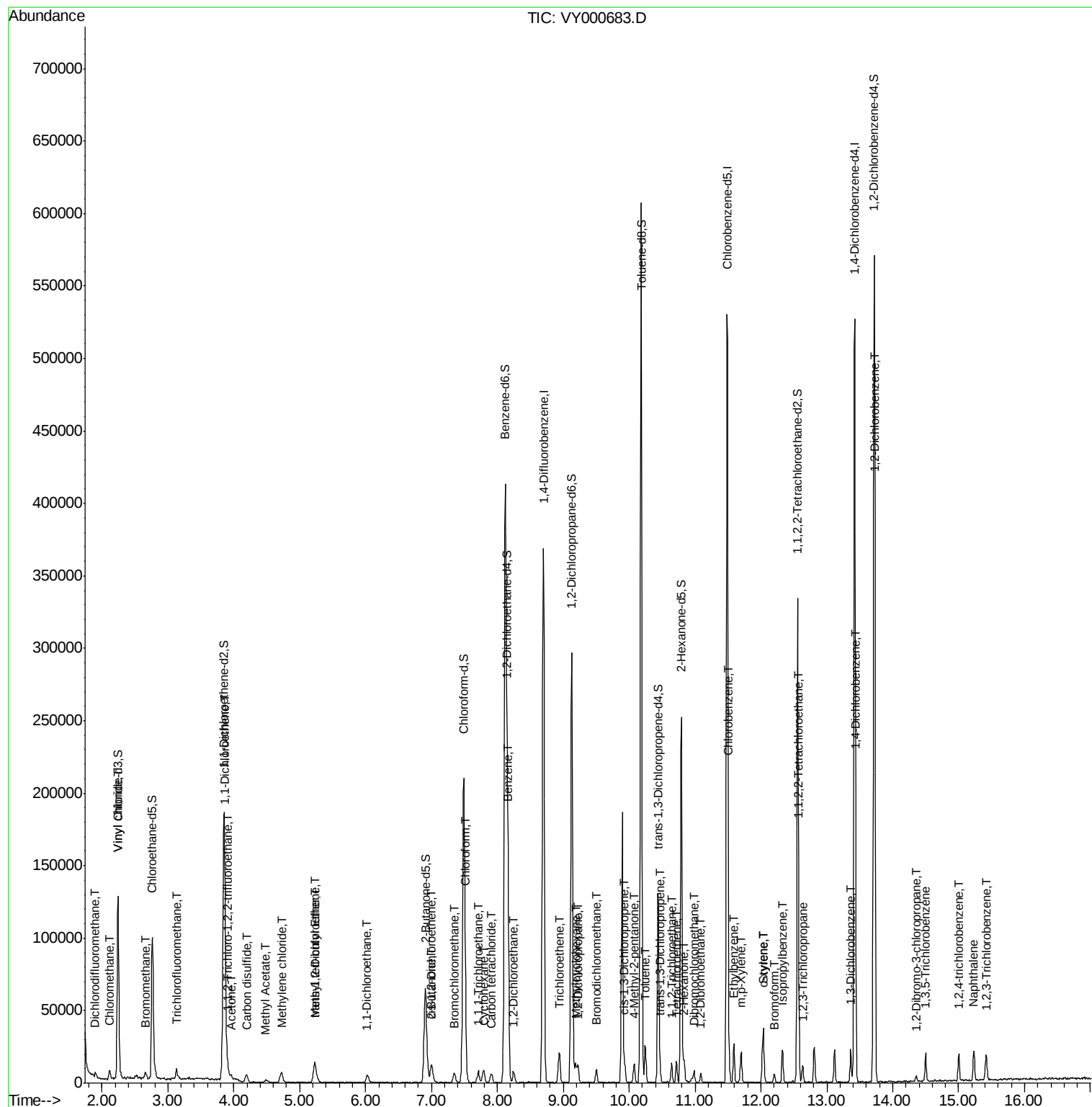
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY111419\
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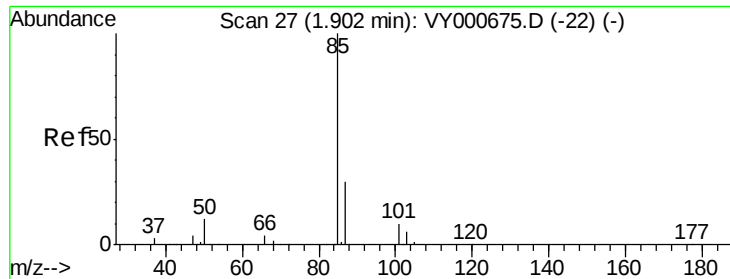
Instrument :
MSVOA_Y
ClientSampleId :
MDL4

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#2

Dichlorodifluoromethane

Concen: 1.514 ug/L

RT: 1.90 min Scan# 26

Delta R.T. -0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampleId :

MDL4

Tot Ion: 85 Resp: 2683

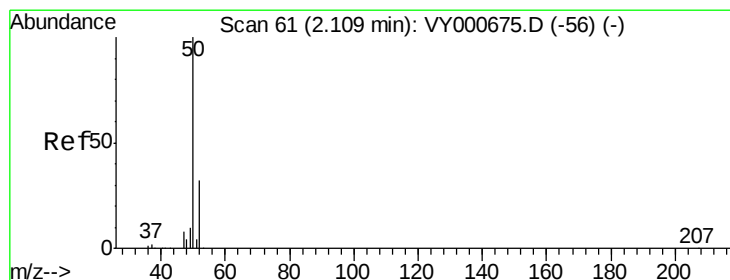
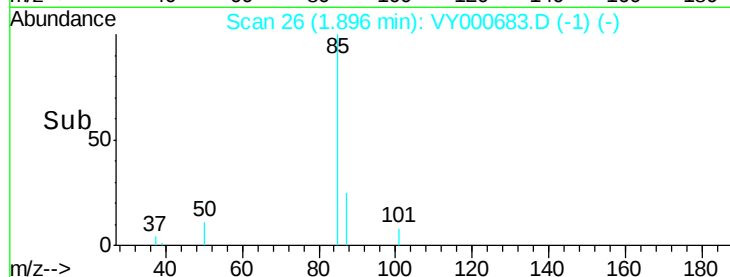
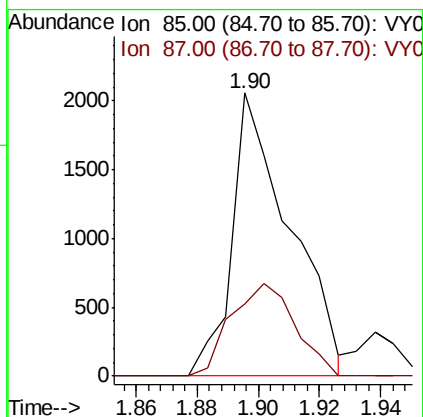
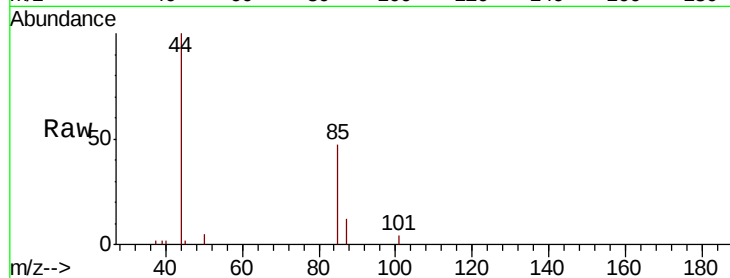
Ion Ratio Lower Upper

85 100

87 36.3 25.8 38.6

Manual Integrations
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#3

Chloromethane

Concen: 2.000 ug/L

RT: 2.11 min Scan# 61

Delta R.T. -0.00 min

Lab File: VY000683.D

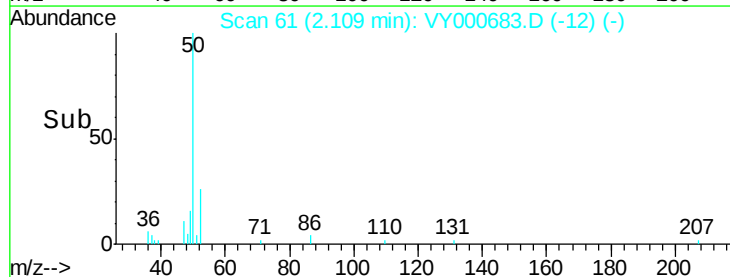
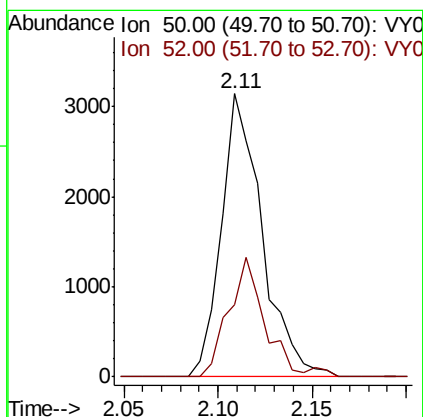
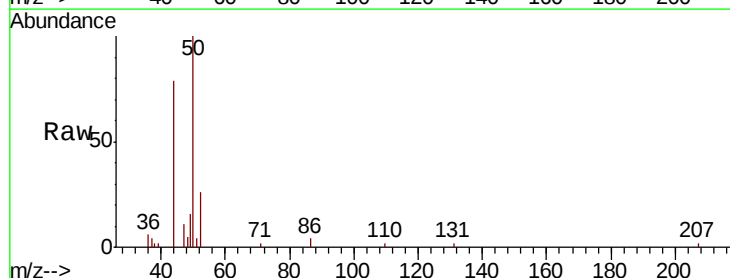
Acq: 14 Nov 2019 20:04

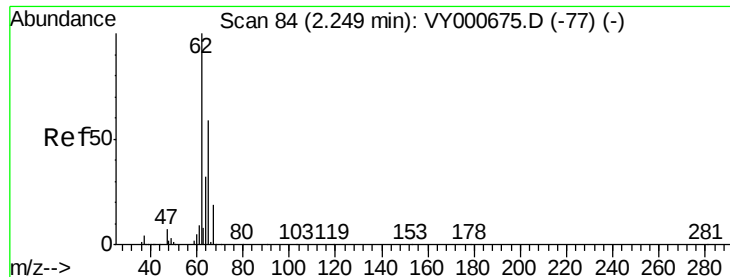
Tgt Ion: 50 Resp: 4714

Ion Ratio Lower Upper

50 100

52 25.6 22.2 41.2





#5

Vinyl chloride

Concen: 2.077 ug/L

RT: 2.25 min Scan# 84

Delta R.T. -0.00 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampled :

MDL4

Tot Ion: 62 Resp: 4907

Ion Ratio Lower Upper

62 100

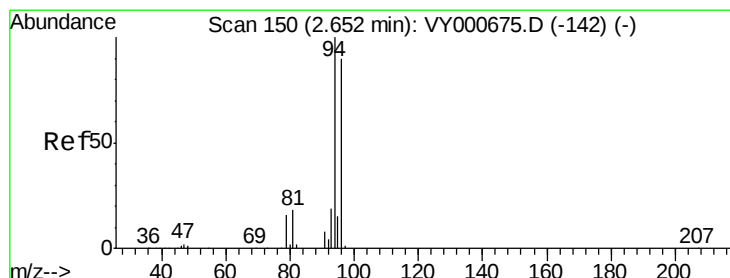
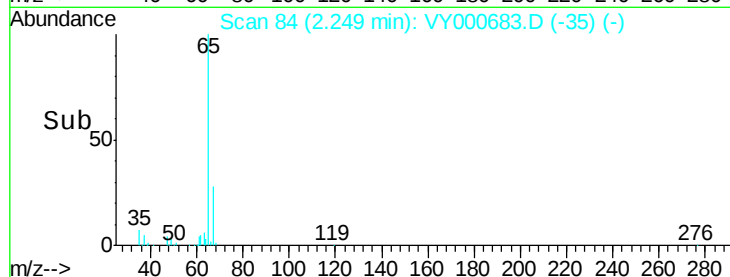
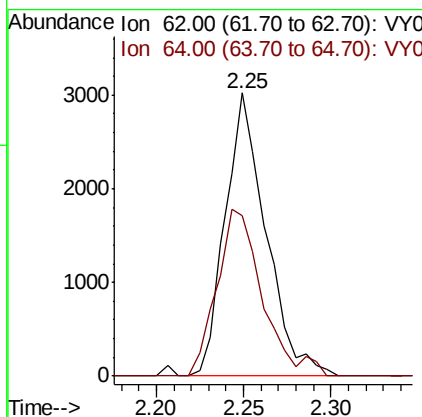
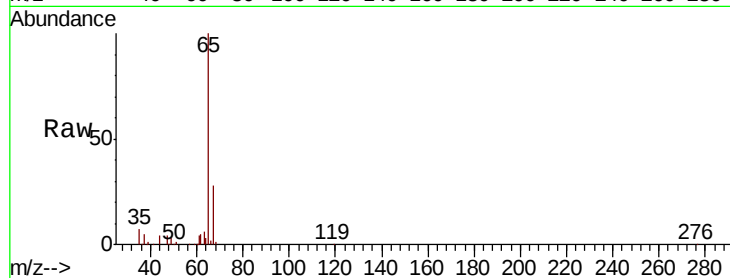
64 56.6 22.7 42.1#

Manual Integrations

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#6

Bromomethane

Concen: 2.096 ug/L

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY000683.D

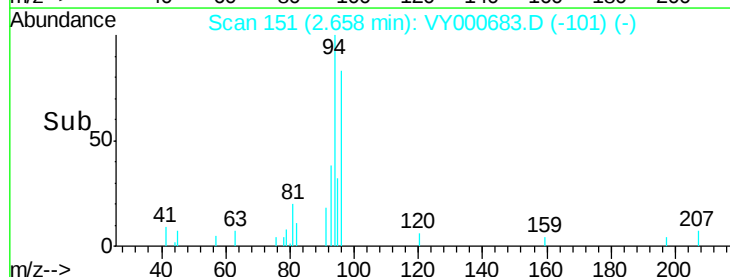
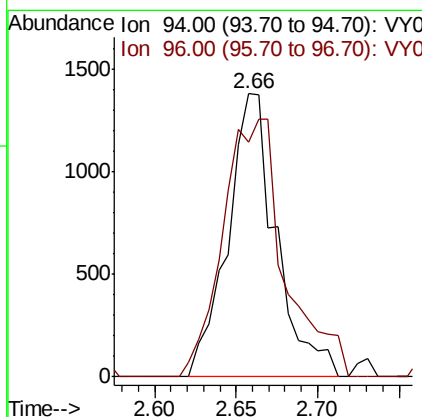
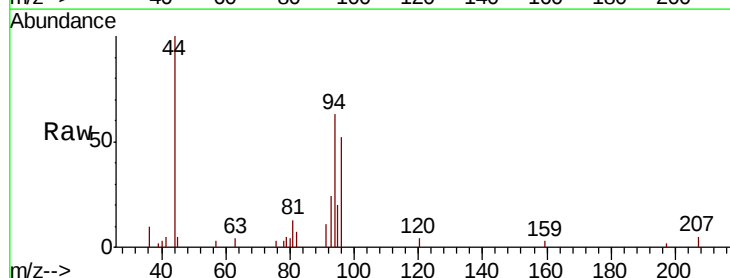
Acq: 14 Nov 2019 20:04

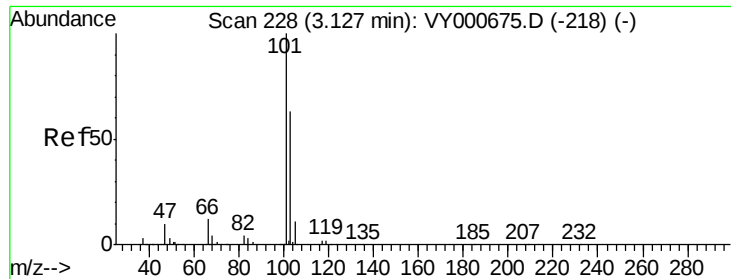
Tgt Ion: 94 Resp: 2848

Ion Ratio Lower Upper

94 100

96 83.1 63.0 117.0





#9

Trichlorofluoromethane

Concen: 1.656 ug/L

RT: 3.13 min Scan# 229

Delta R.T. 0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampleId :

MDL4

Tot Ion:101 Resp: 5777

Ion Ratio Lower Upper

101 100

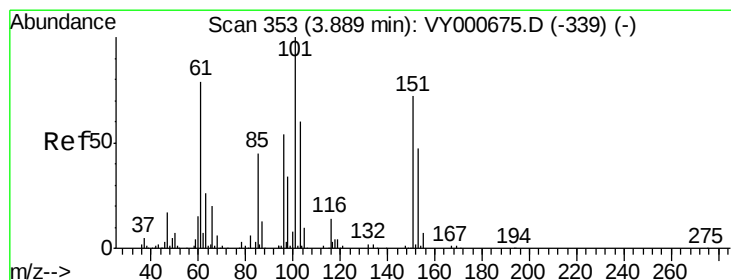
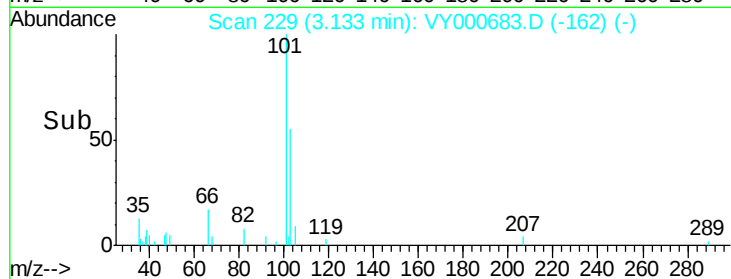
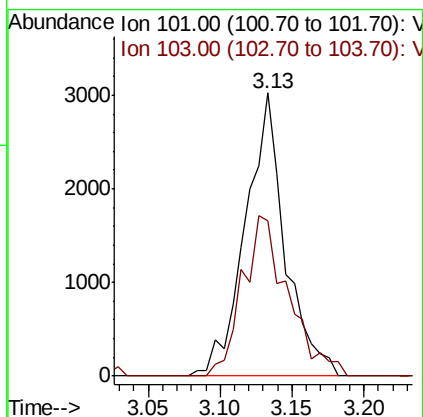
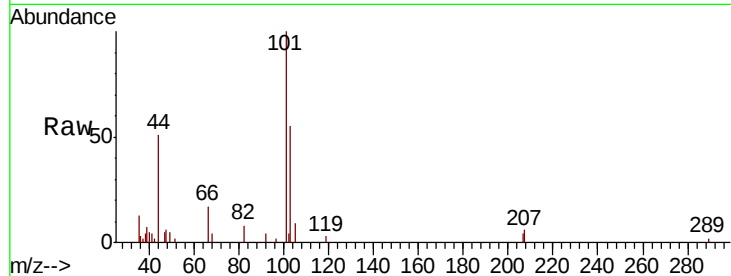
103 61.8 52.5 78.7

Manual Integrations

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#10

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

Concen: 1.850 ug/L m

RT: 3.91 min Scan# 356

Delta R.T. 0.02 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

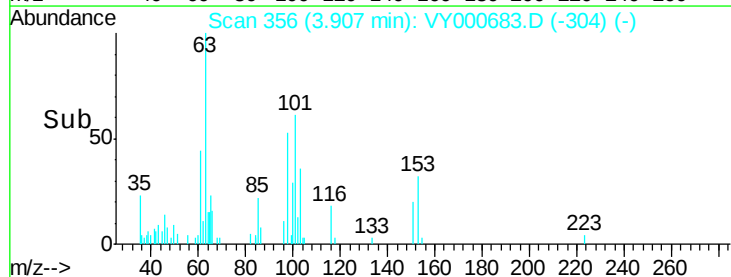
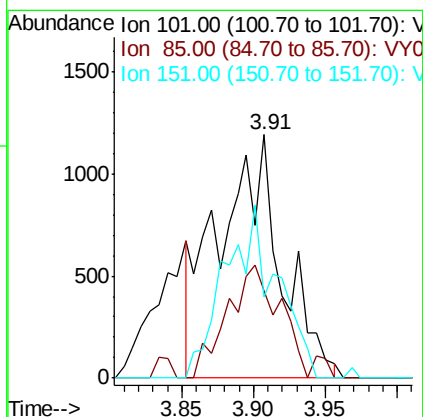
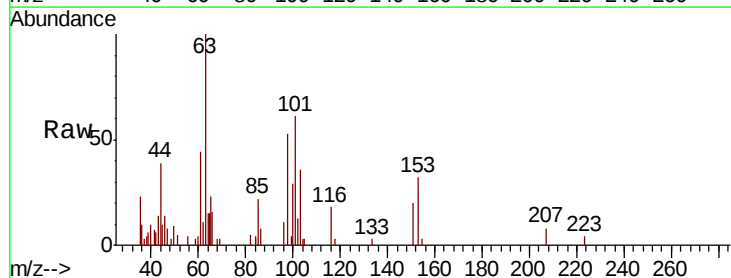
Tgt Ion:101 Resp: 3602

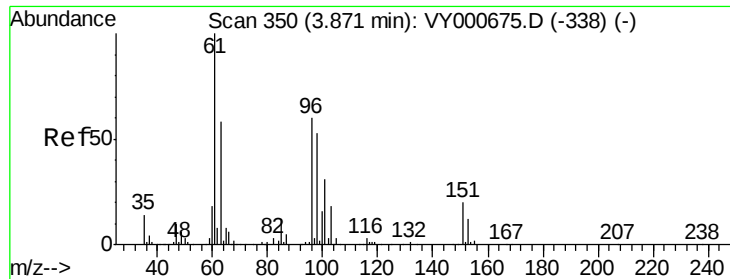
Ion Ratio Lower Upper

101 100

85 0.0 35.3 52.9#

151 28.8 57.7 86.5#





#12

1,1-Dichloroethene

Concen: 2.668 ug/L

RT: 3.86 min Scan# 349

Delta R.T. -0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampleId :

MDL4

Tot Ion: 96 Resp: 5197

Ion Ratio Lower Upper

96 100

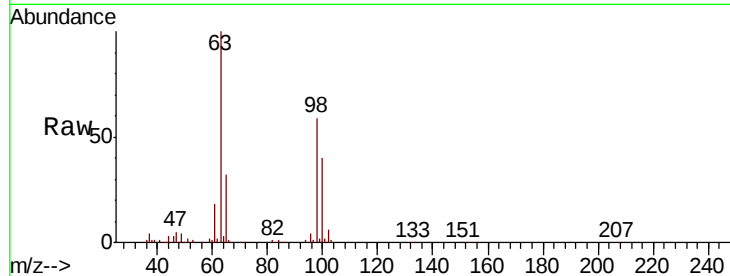
61 433.7 117.5 218.3#

63 2355.3 70.1 130.3

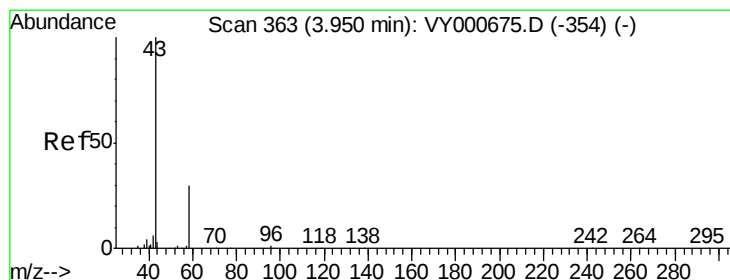
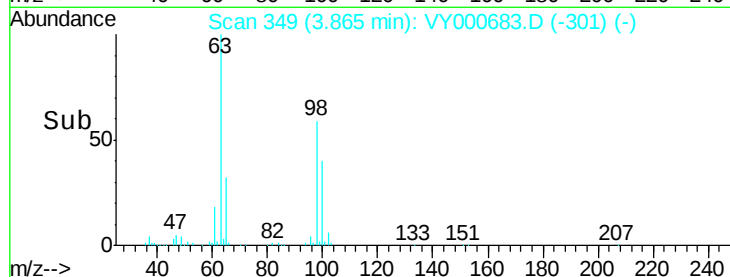
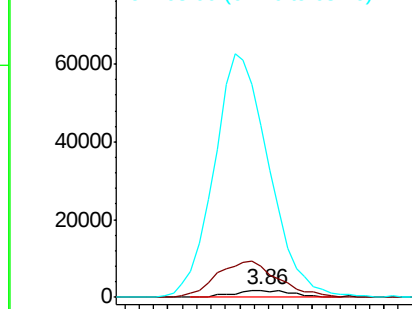
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Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 63.00 (62.70 to 63.70): VY0



#13

Acetone

Concen: 5.836 ug/L

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000683.D

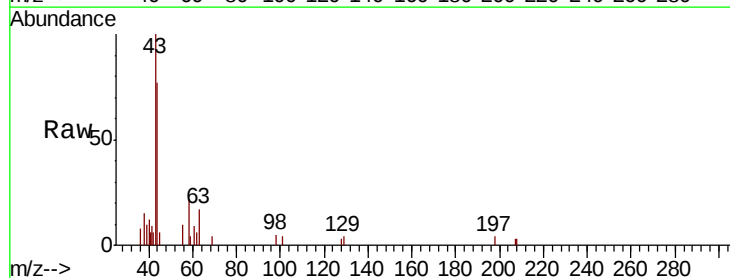
Acq: 14 Nov 2019 20:04

Tgt Ion: 43 Resp: 4040

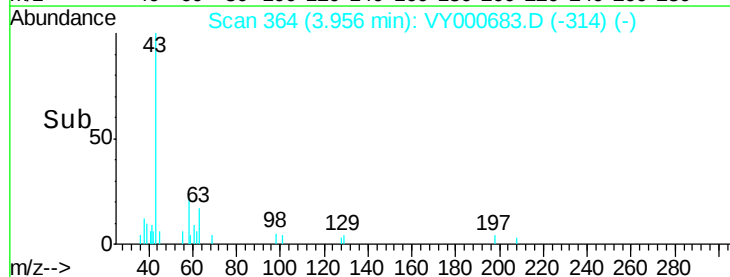
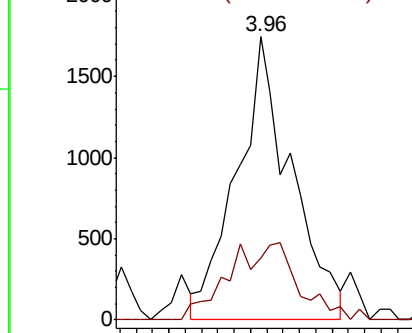
Ion Ratio Lower Upper

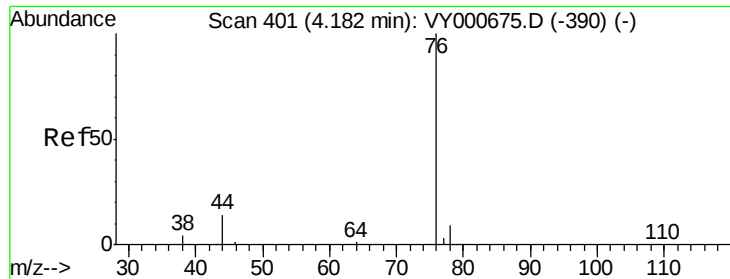
43 100

58 14.0 0.0 62.2



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0





#14

Carbon disulfide

Concen: 1.981 ug/L

RT: 4.19 min Scan# 403

Delta R.T. 0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampleId :

MDL4

Tot Ion: 76 Resp: 10642

Ion Ratio Lower Upper

76 100

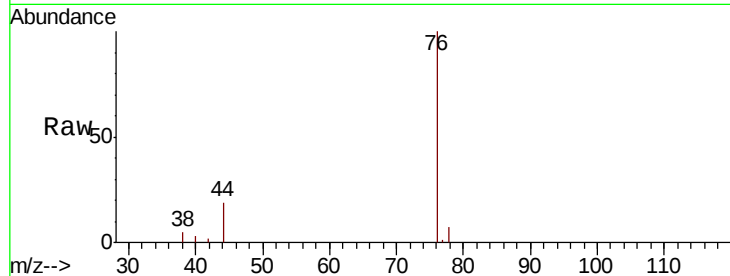
78 6.9 7.0 10.6#

Manual Integrations

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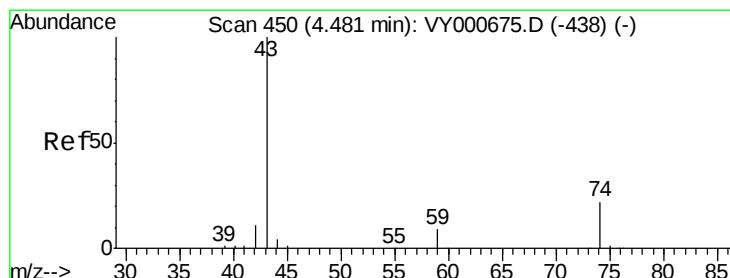
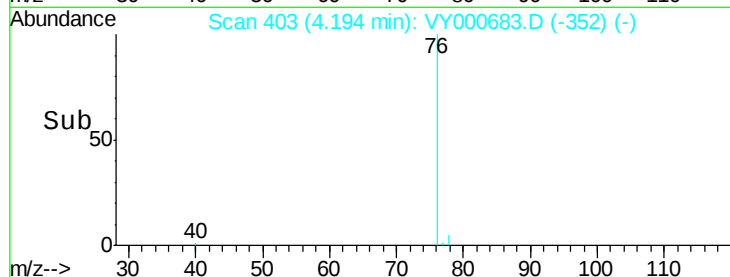
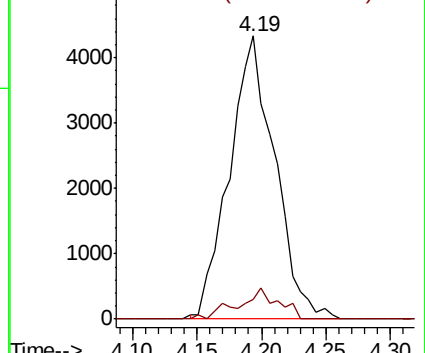
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Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0



#15

Methyl Acetate

Concen: 2.016 ug/L

RT: 4.48 min Scan# 450

Delta R.T. -0.00 min

Lab File: VY000683.D

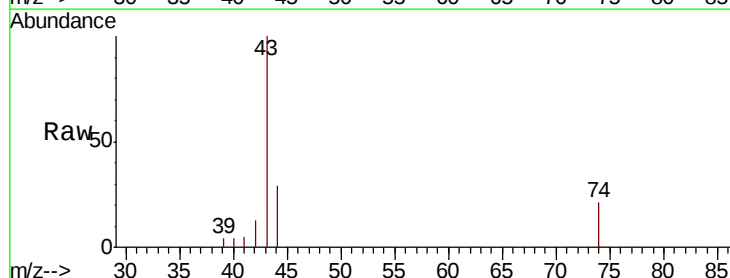
Acq: 14 Nov 2019 20:04

Tgt Ion: 43 Resp: 3507

Ion Ratio Lower Upper

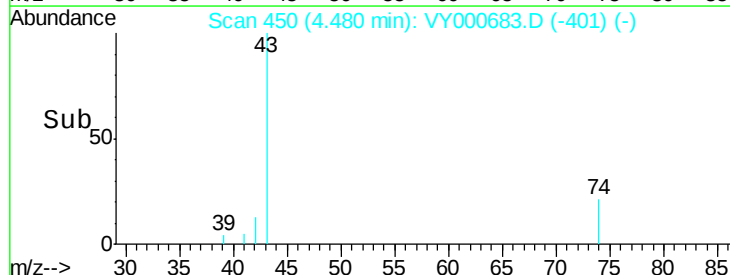
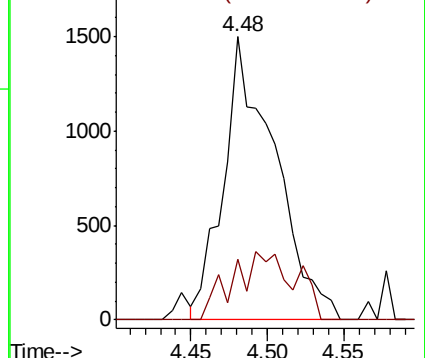
43 100

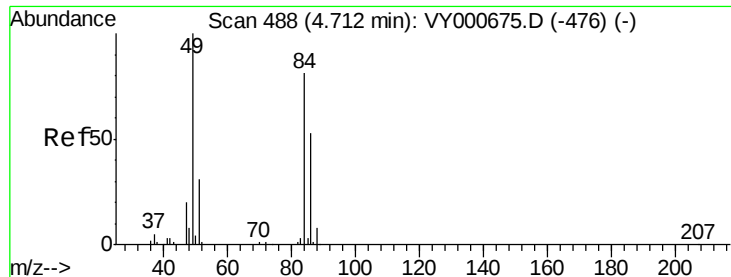
74 4.7 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0





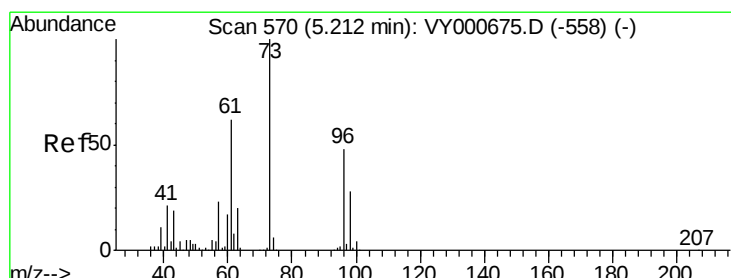
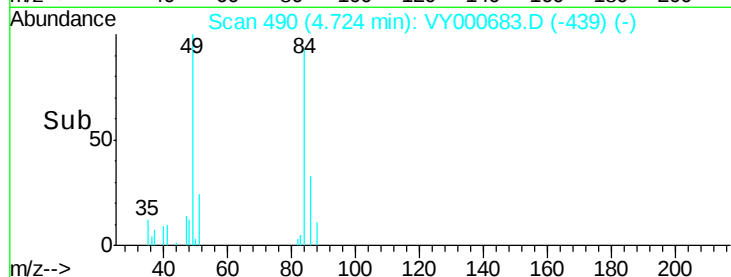
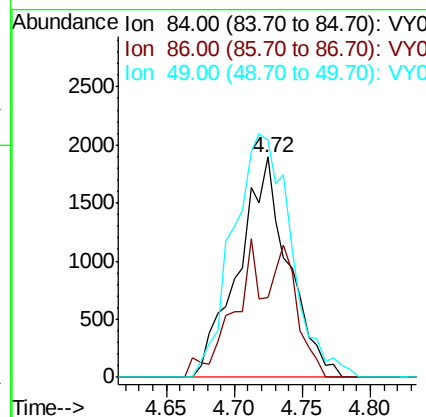
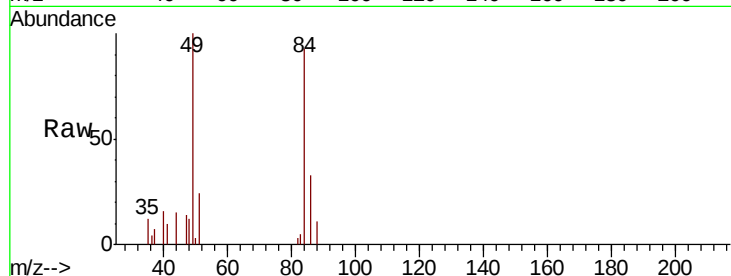
#16
Methvlene chloride
Concen: 2.338 ug/L
RT: 4.72 min Scan# 490
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampleId :
MDL4

Tot Ion	84	Resp	4869
Ion	Ratio	Lower	Upper
84	100		
86	36.0	45.9	85.3#
49	107.5	86.1	159.9

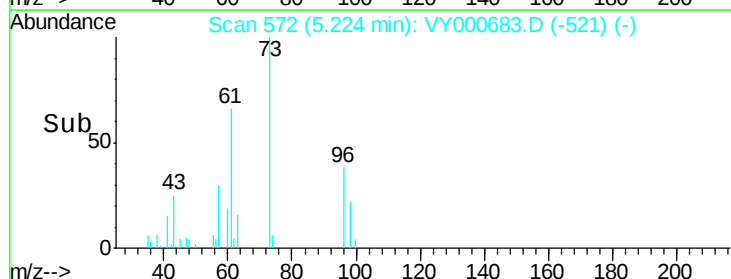
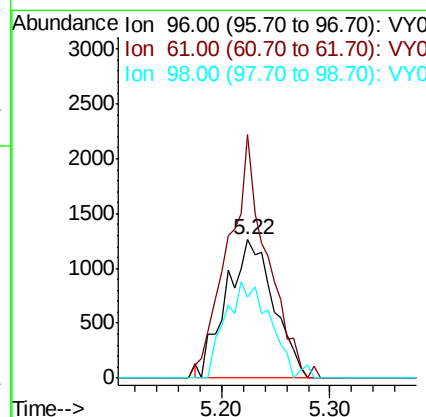
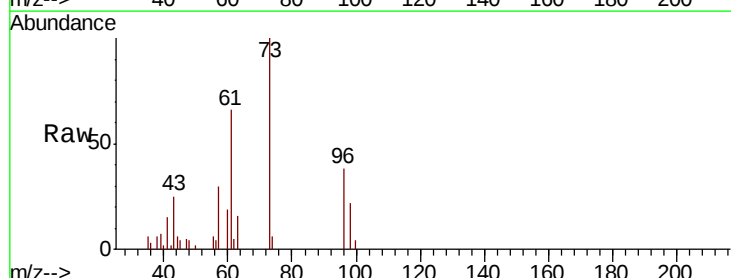
Manual Integrations
APPROVED

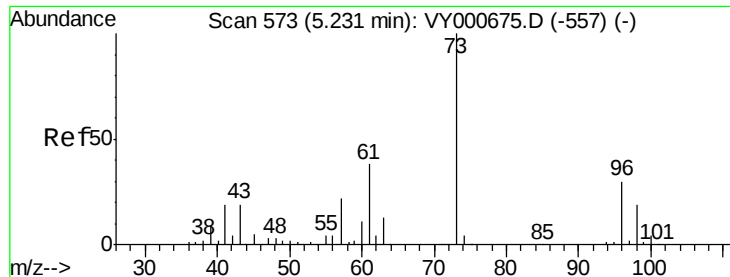
MMDadoda
11/15/2019 3:05:11 PM



#17
trans-1,2-Dichloroethene
Concen: 1.872 ug/L m
RT: 5.22 min Scan# 572
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	96	Resp	3807
Ion	Ratio	Lower	Upper
96	100		
61	176.3	90.8	168.6#
98	59.0	41.0	76.2





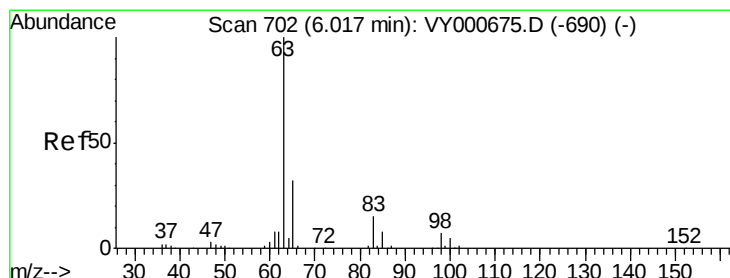
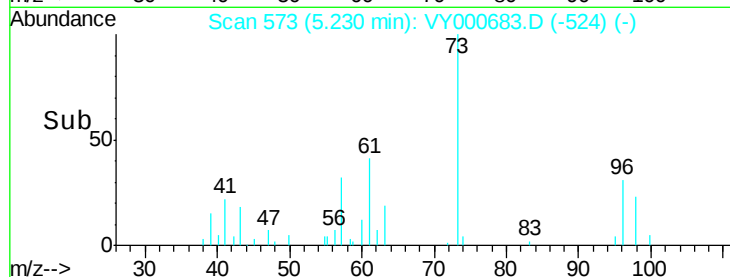
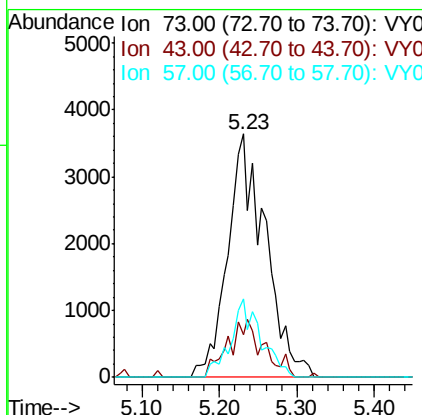
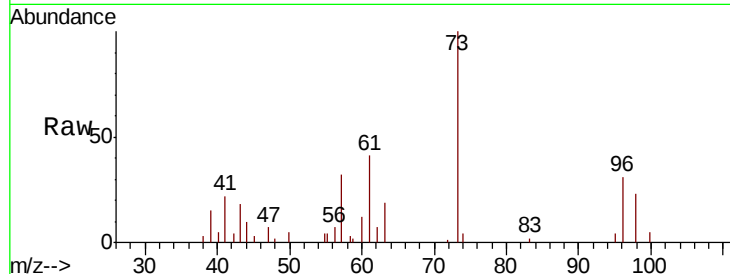
#18
Methvl tert-butvl Ether
Concen: 1.999 ug/L m
RT: 5.23 min Scan# 573
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampled :
MDL4

Tot Ion	Ratio	Lower	Upper
73	100		
43	4.4	15.5	23.3#
57	10.0	17.7	26.5#

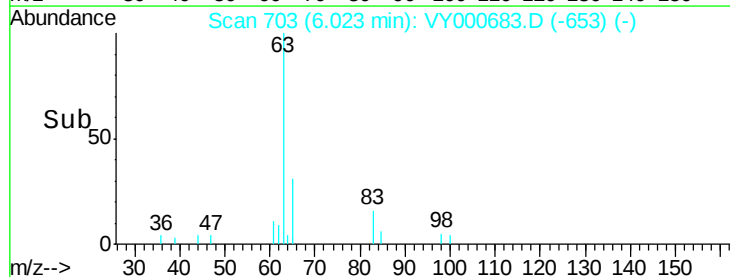
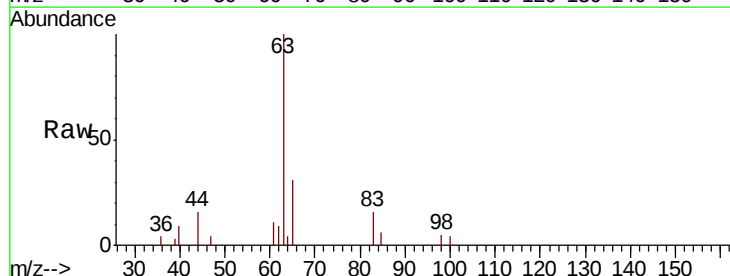
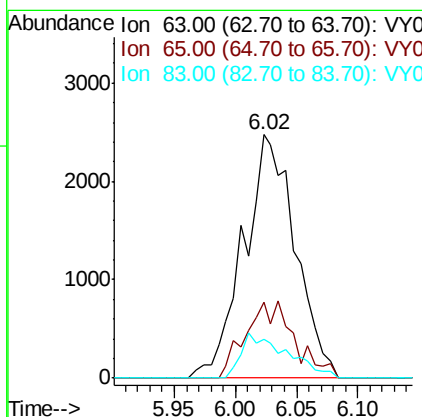
Manual Integrations
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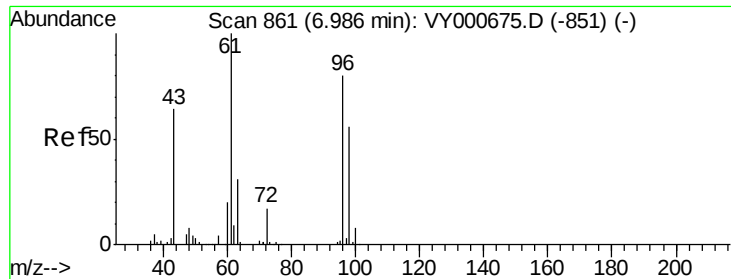
MMDadoda
11/15/2019 3:05:11 PM



#19
1,1-Dichloroethane
Concen: 1.991 ug/L
RT: 6.02 min Scan# 703
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.9	22.7	42.1
83	15.8	10.5	19.5





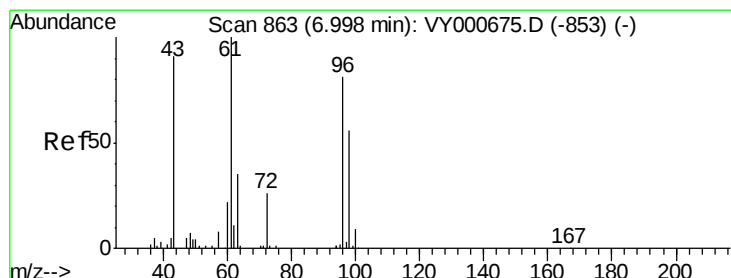
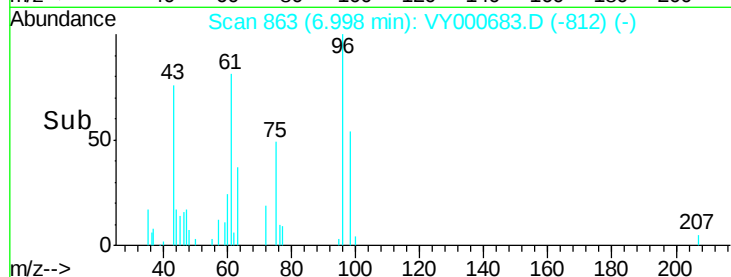
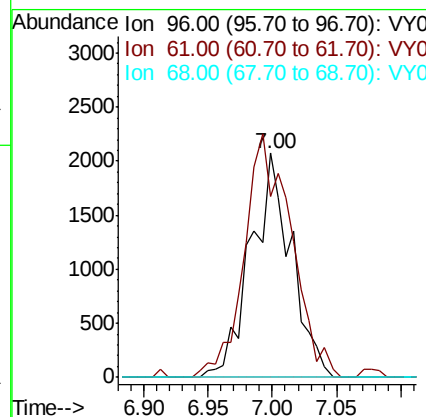
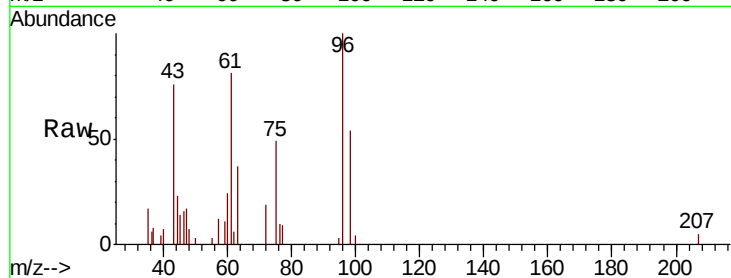
#20
 cis-1,2-Dichloroethene
 Concen: 1.991 ug/L m
 RT: 7.00 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL4

Tot Ion	Ratio	Lower	Upper
96	100		
61	80.8	87.2	162.0#
68	0.0	0.0	0.0

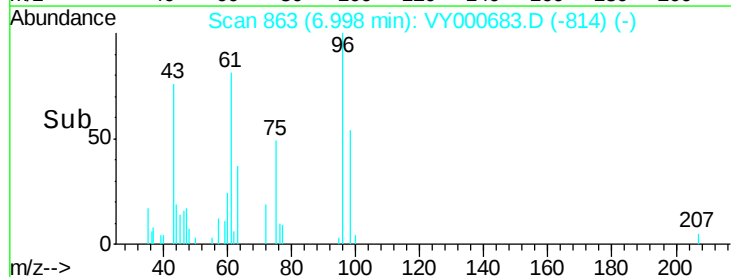
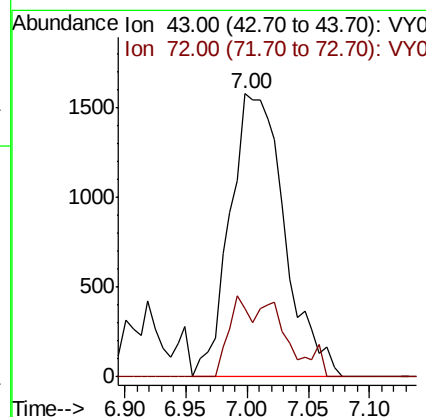
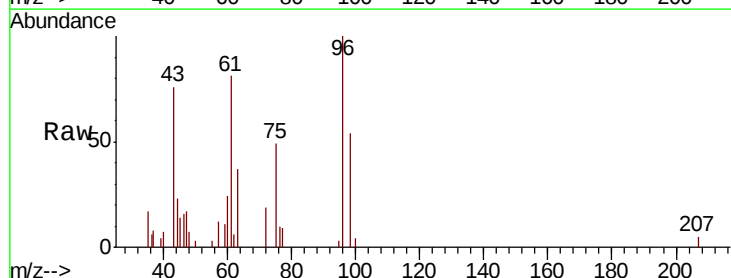
Manual Integrations
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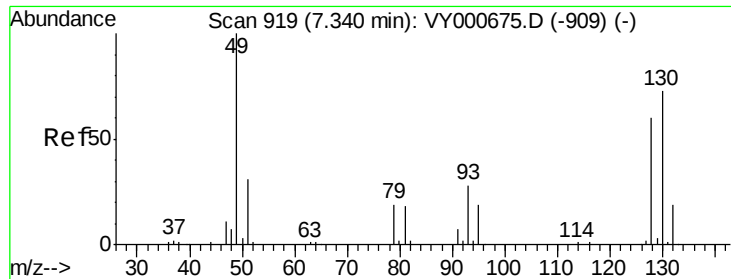
MMDadoda
 11/15/2019 3:05:11 PM



#22
 2-Butanone
 Concen: 4.503 ug/L
 RT: 7.00 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.8	13.7	41.1#





#23

Bromochloromethane

Concen: 1.619 ug/L

RT: 7.35 min Scan# 921

Delta R.T. 0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampleId :

MDL4

Tot Ion:128 Resp: 1702

Ion Ratio Lower Upper

128 100

49 187.8 116.6 216.5

130 118.9 85.4 158.6

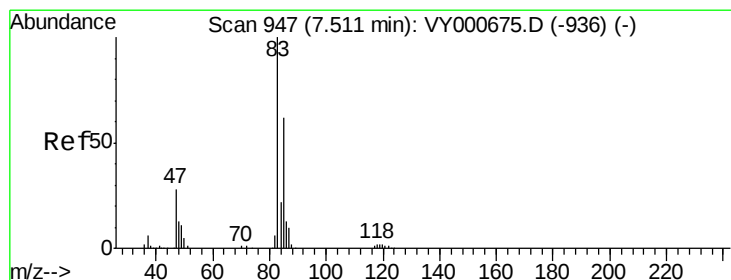
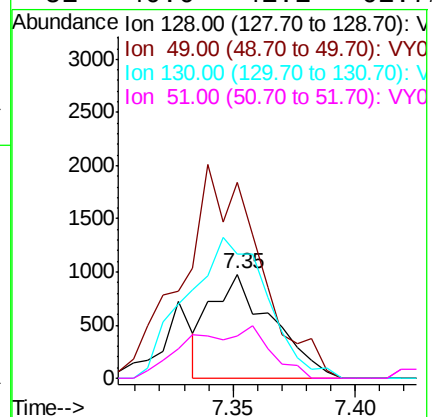
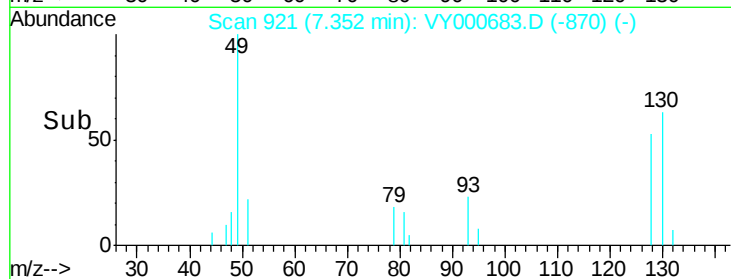
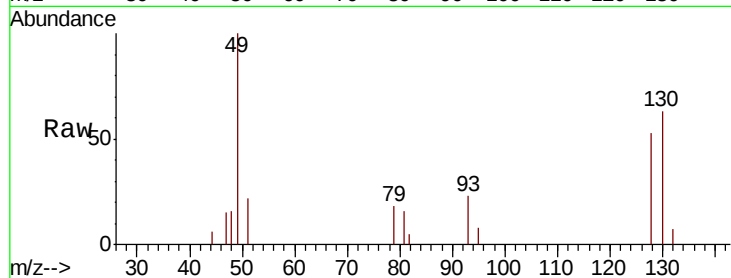
51 40.6 41.1 61.7#

Manual Integrations

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#25

Chloroform

Concen: 2.857 ug/L

RT: 7.52 min Scan# 948

Delta R.T. 0.01 min

Lab File: VY000683.D

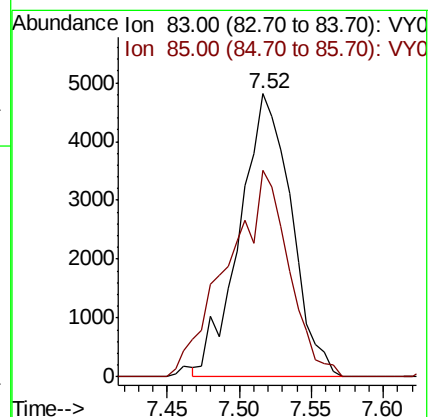
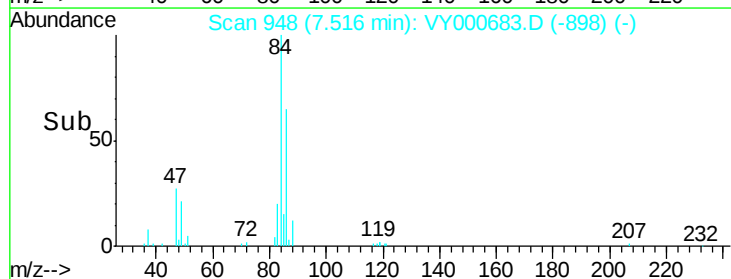
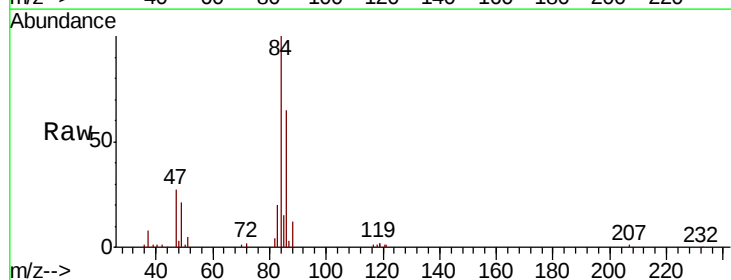
Acq: 14 Nov 2019 20:04

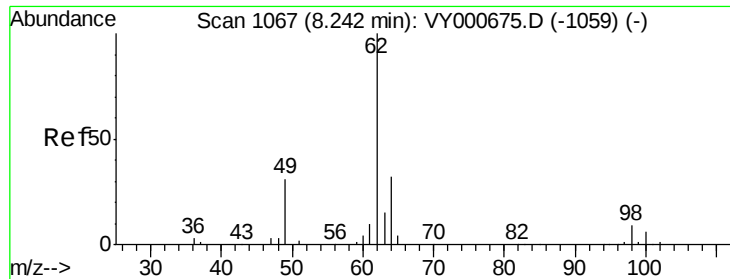
Tgt Ion: 83 Resp: 11959

Ion Ratio Lower Upper

83 100

85 72.8 43.1 80.1





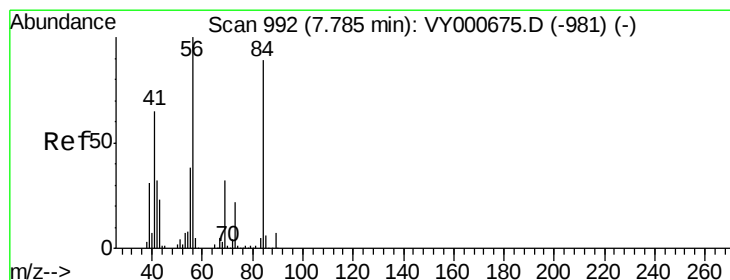
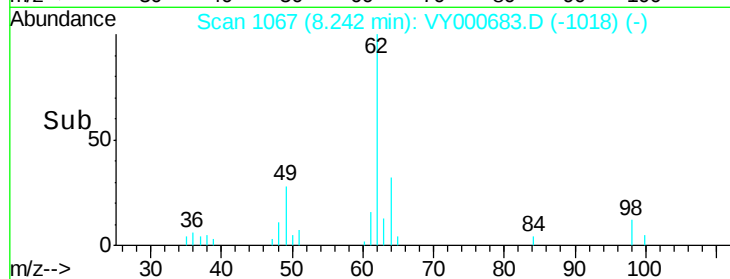
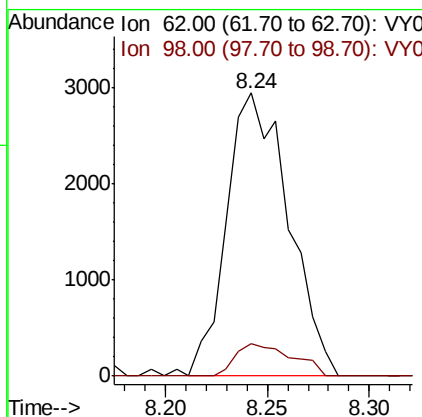
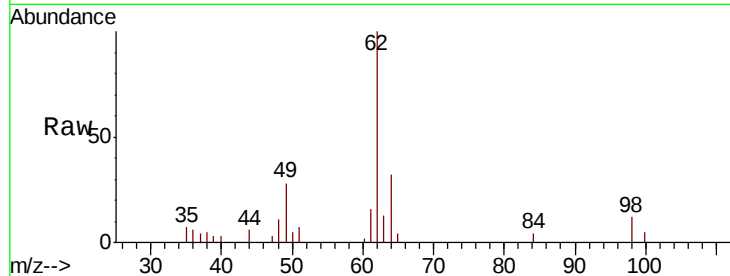
#27
 1,2-Dichloroethane
 Concen: 2.167 ug/L
 RT: 8.24 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL4

Tot Ion	Ratio	Lower	Upper
62	100		
98	11.7	7.1	10.7#

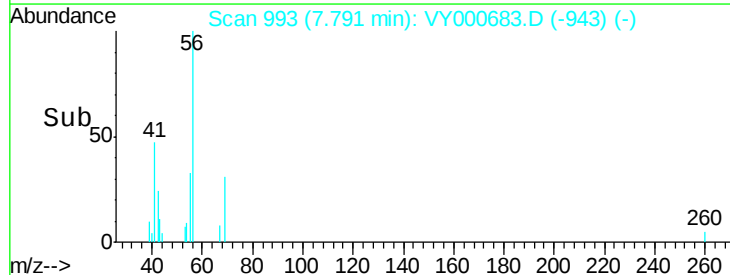
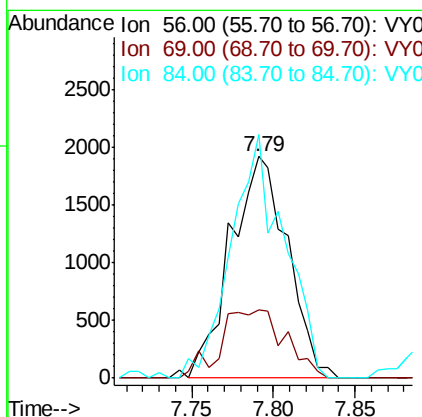
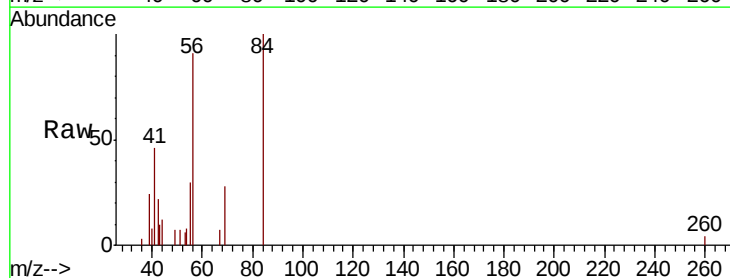
Manual Integrations
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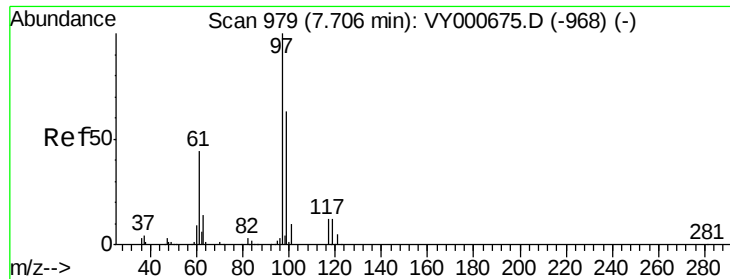
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#29
 Cyclohexane
 Concen: 1.425 ug/L
 RT: 7.79 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
56	100		
69	11.6	24.4	36.6#
84	101.4	71.4	107.2





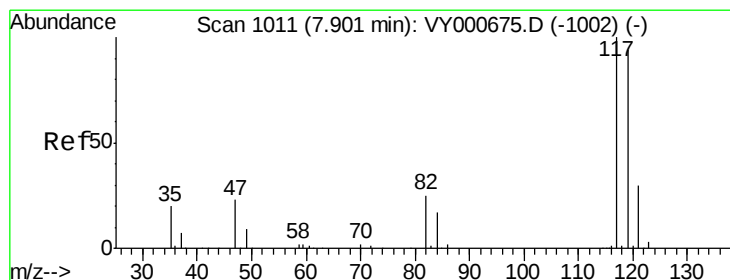
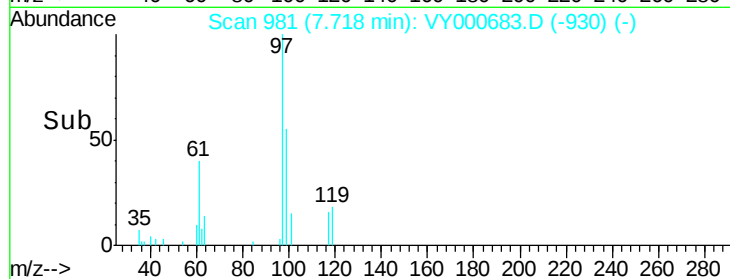
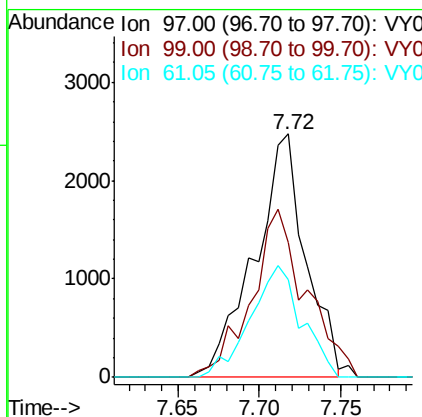
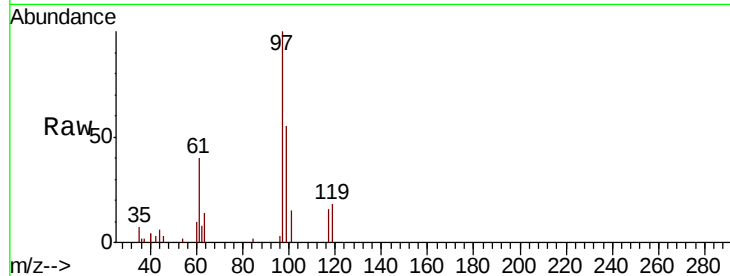
#30
 1,1,1-Trichloroethane
 Concen: 1.752 ug/L
 RT: 7.72 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL4

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
99	56.1	52.2	78.2	
61	46.3	35.0	52.4	

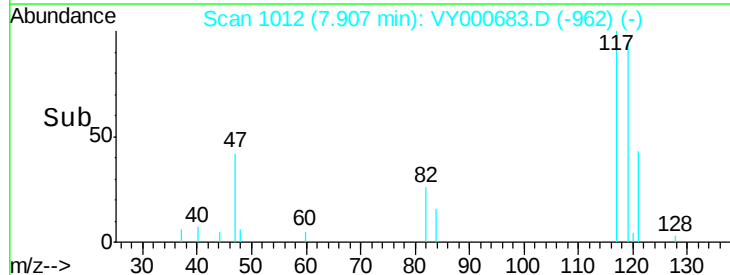
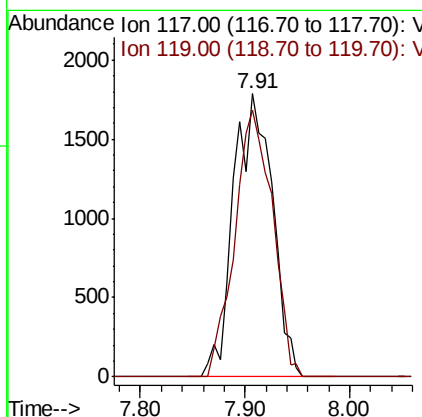
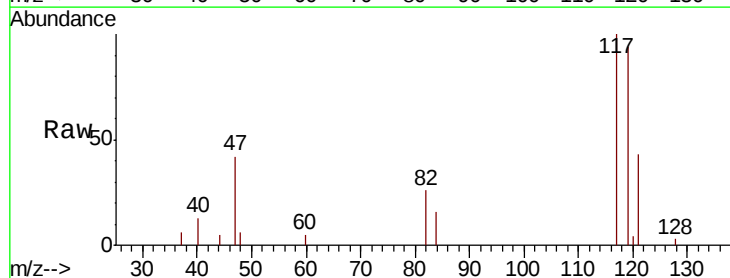
Manual Integrations
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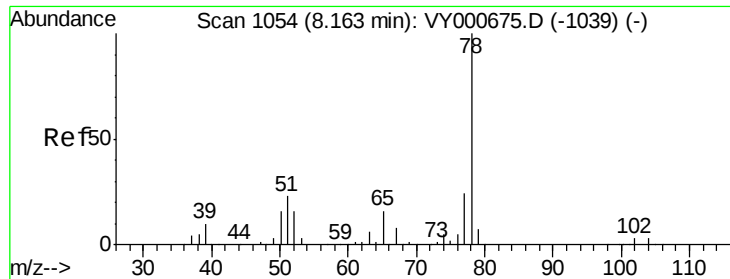
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 11/15/2019 3:05:11 PM



#31
 Carbon tetrachloride
 Concen: 1.674 ug/L m
 RT: 7.91 min Scan# 1012
 Delta R.T. 0.01 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
119	91.3	75.5	113.3	





#33

Benzene

Concen: 1.901 ug/L

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

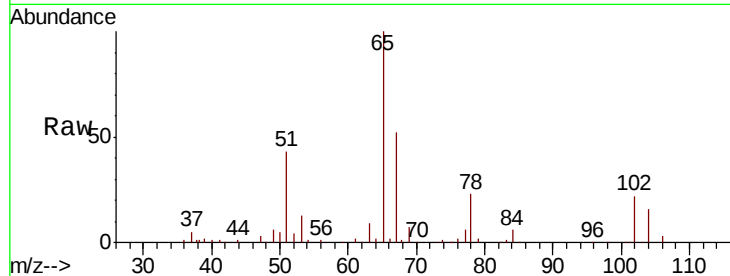
ClientSampleId :

MDL4

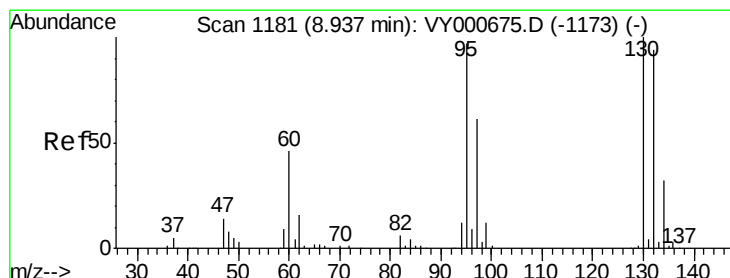
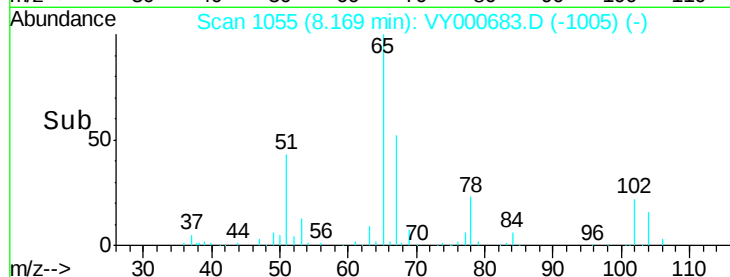
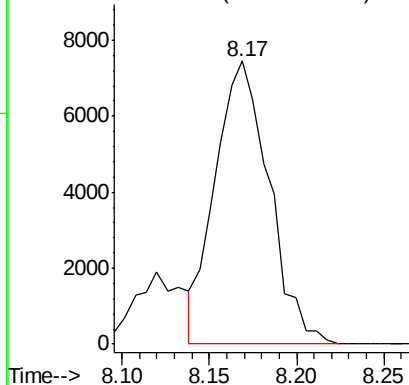
Tgt Ion: 78 Resp: 15925

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Abundance Ion 78.00 (77.70 to 78.70): VY0



#34

Trichloroethene

Concen: 1.977 ug/L

RT: 8.94 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Tgt Ion: 95 Resp: 4159

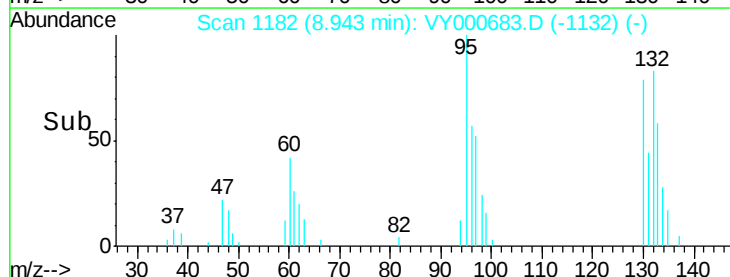
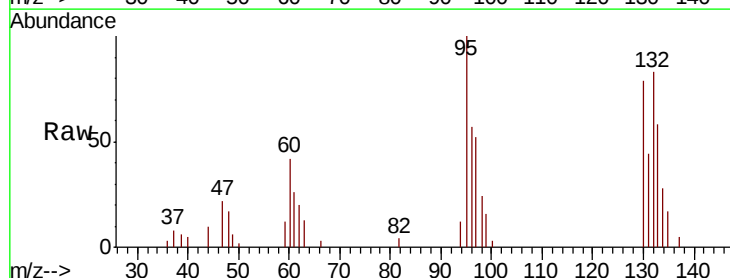
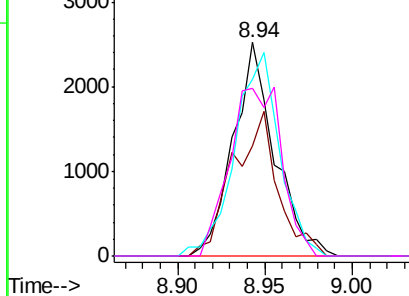
Ion	Ratio	Lower	Upper
95	100		
97	51.7	43.8	81.3
132	83.0	67.8	126.0
130	78.6	71.9	133.5

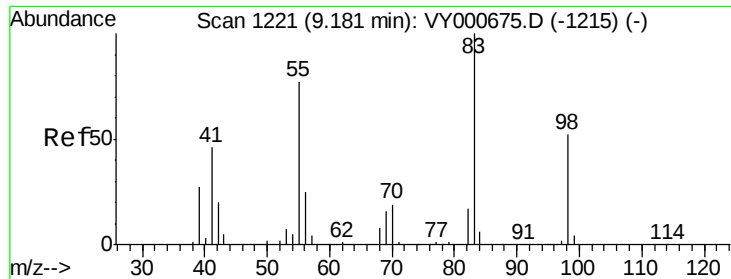
Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0





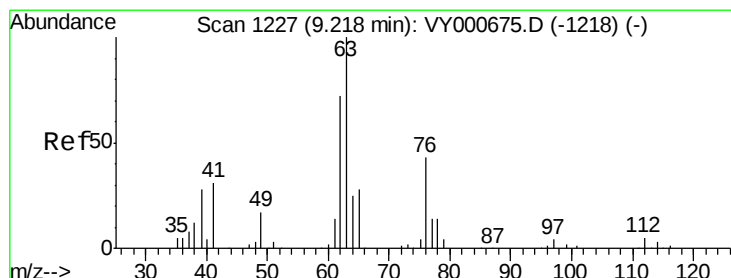
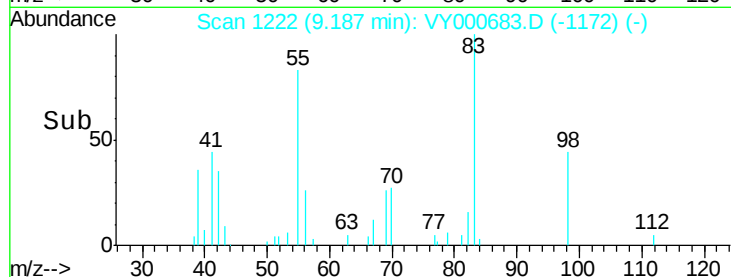
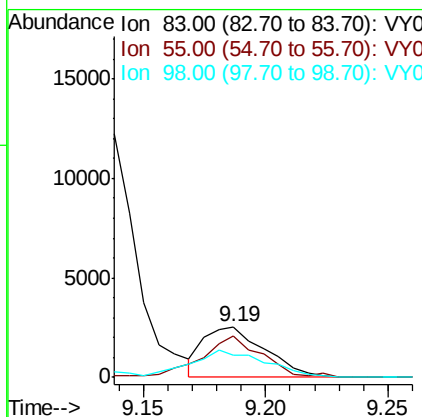
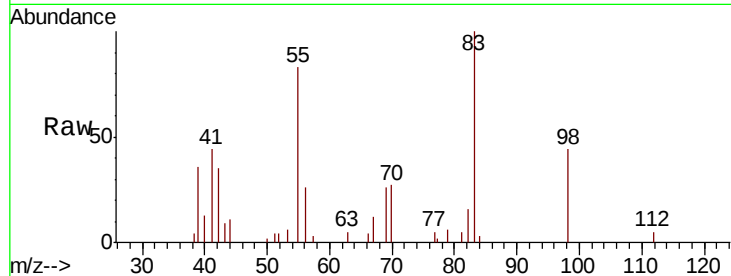
#35
Methylcyclohexane
Concen: 1.278 ug/L
RT: 9.19 min Scan# 1222
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampleId :
MDL4

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.6	60.4	90.6
98	64.9	40.3	60.5

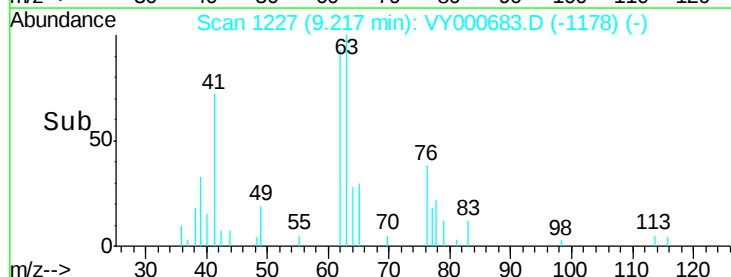
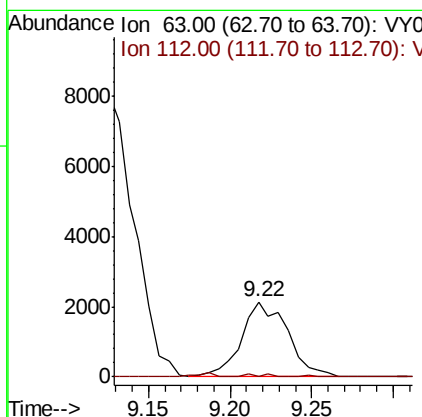
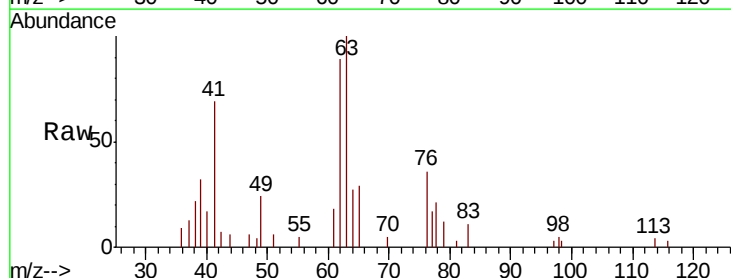
Manual Integrations
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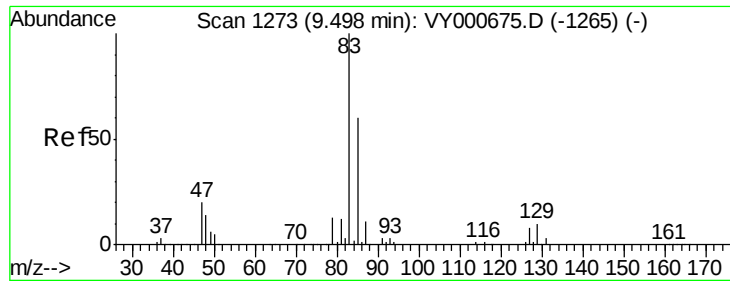
MMDadoda
11/15/2019 3:05:11 PM



#37
1,2-Dichloropropane
Concen: 2.032 ug/L
RT: 9.22 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.7	3.8	5.6





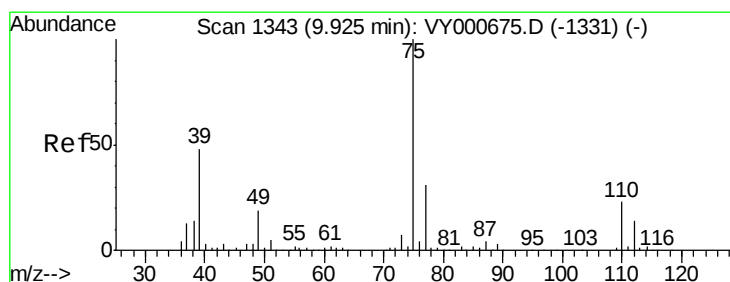
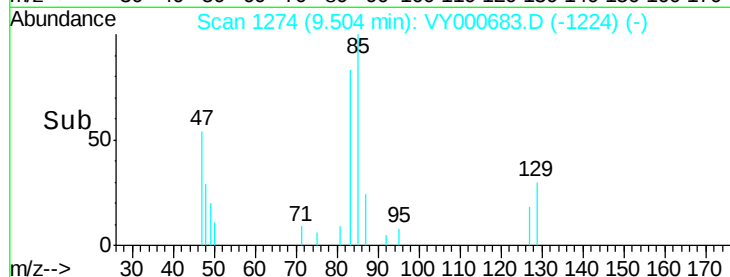
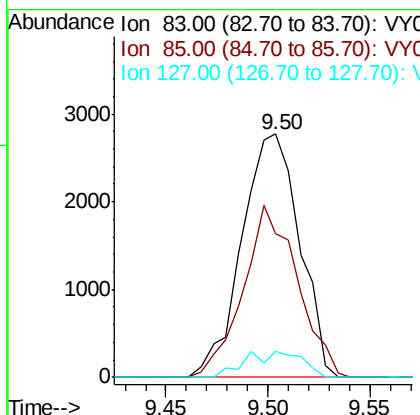
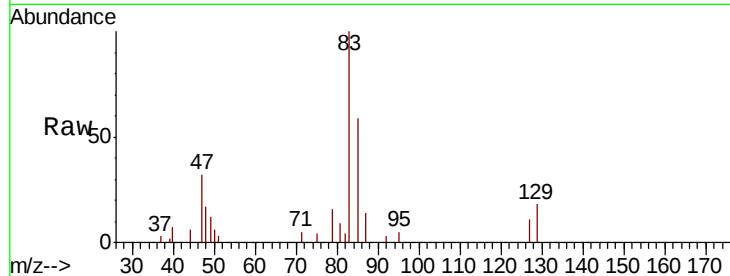
#38
Bromodichloromethane
Concen: 1.960 ug/L
RT: 9.50 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampleId :
MDL4

Tot Ion	83	85	127
Resp	5472		
Ratio	100	59.1	10.9
Lower		42.2	6.4
Upper		78.4	9.6#

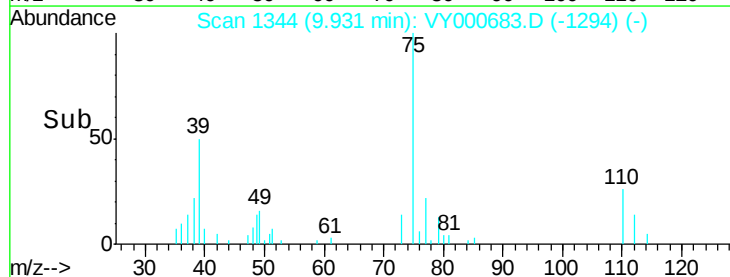
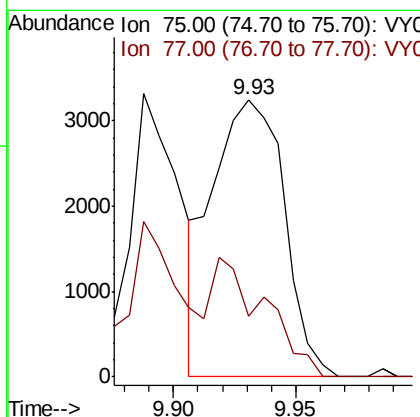
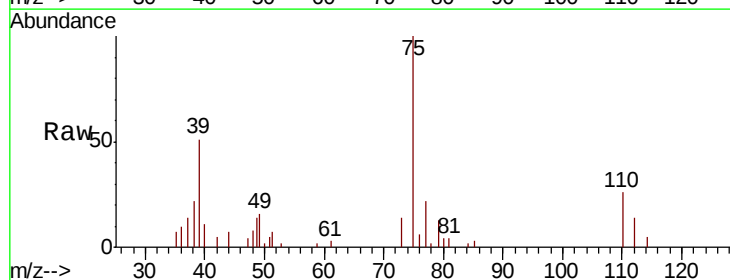
Manual Integrations
APPROVED

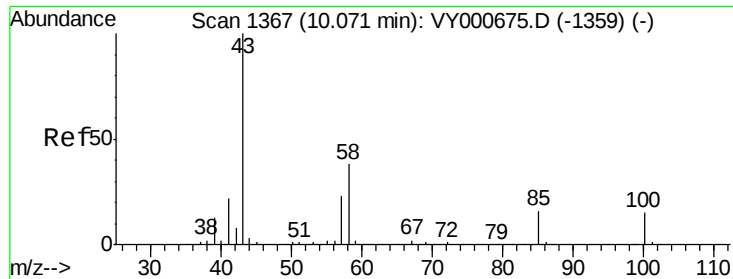
MMDadoda
11/15/2019 3:05:11 PM



#39
cis-1,3-Dichloropropene
Concen: 1.868 ug/L
RT: 9.93 min Scan# 1344
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	75	77
Resp	6597	
Ratio	100	21.9
Lower		21.7
Upper		40.3





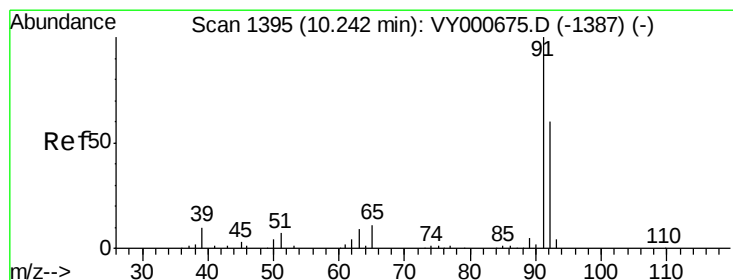
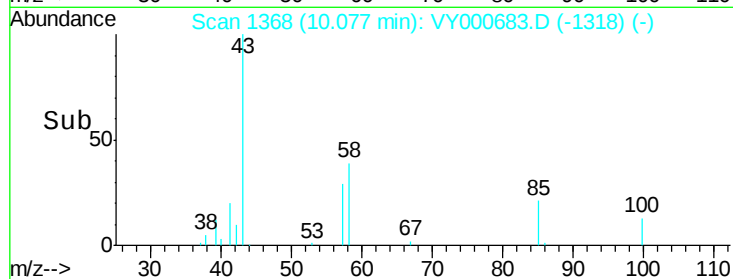
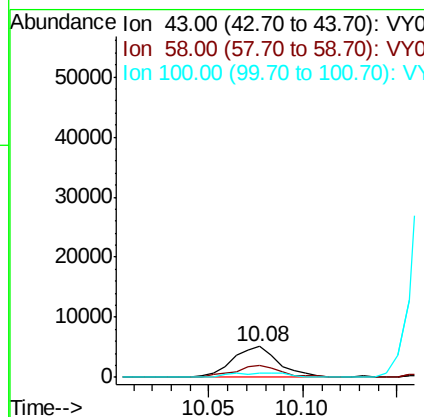
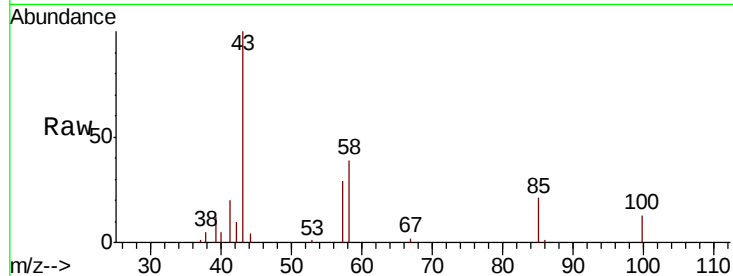
#40
4-Methyl-2-pentanone
Concen: 3.676 ug/L
RT: 10.08 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampled :
MDL4

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.8	30.2	45.2
100	7.8	12.2	18.2

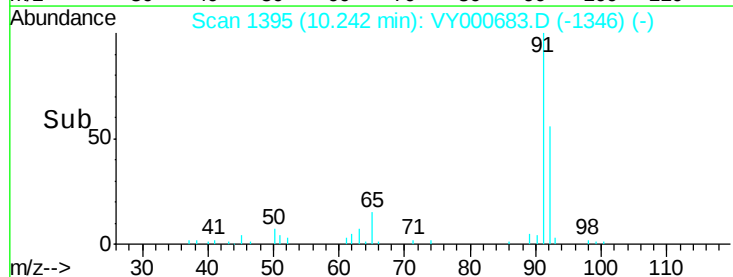
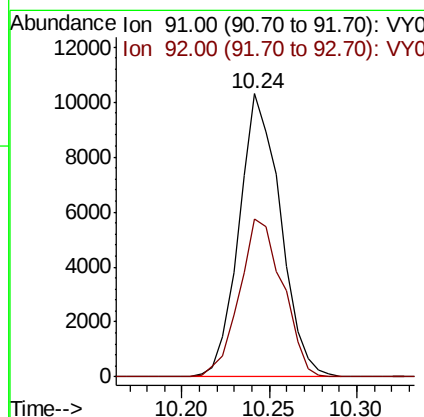
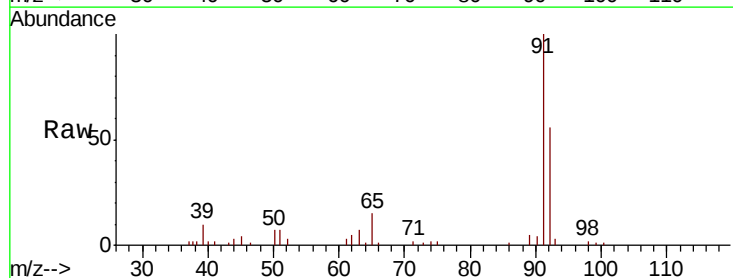
Manual Integrations
APPROVED

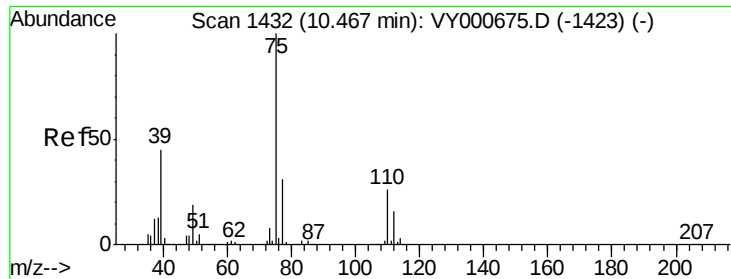
MMDadoda
11/15/2019 3:05:11 PM



#42
Toluene
Concen: 1.912 ug/L
RT: 10.24 min Scan# 1395
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.8	42.2	78.4





#44

trans-1,3-Dichloropropene

Concen: 1.888 ug/L m

RT: 10.47 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampled :

MDL4

Tot Ion: 75 Resp: 5837

Ion Ratio Lower Upper

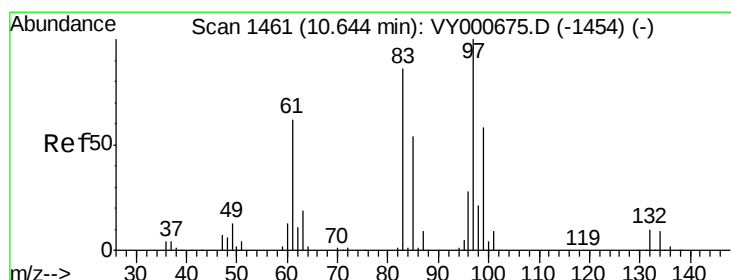
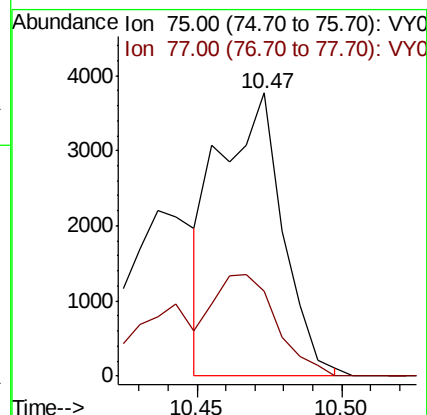
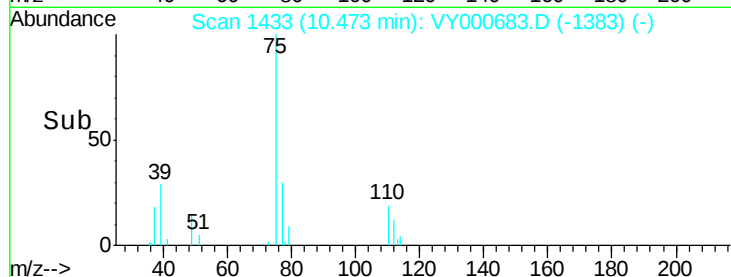
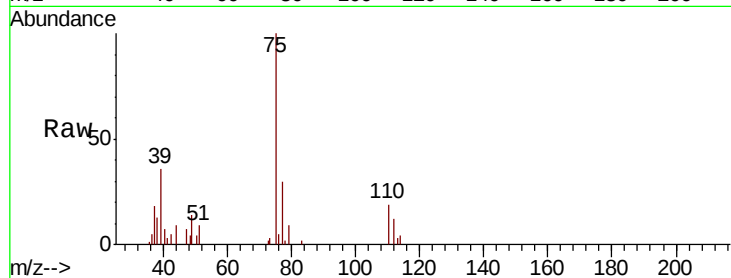
75 100

77 29.9 22.0 41.0

Manual Integrations
APPROVED

MMDadoda

11/15/2019 3:05:11 PM



#45

1,1,2-Trichloroethane

Concen: 2.092 ug/L

RT: 10.64 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Tgt Ion: 97 Resp: 4125

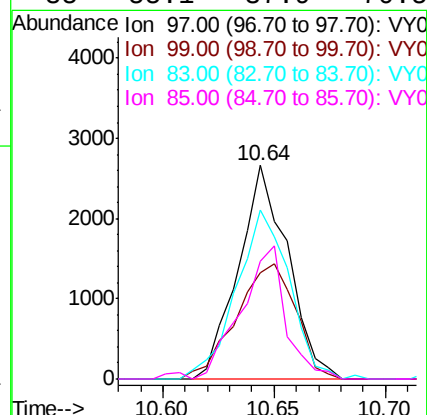
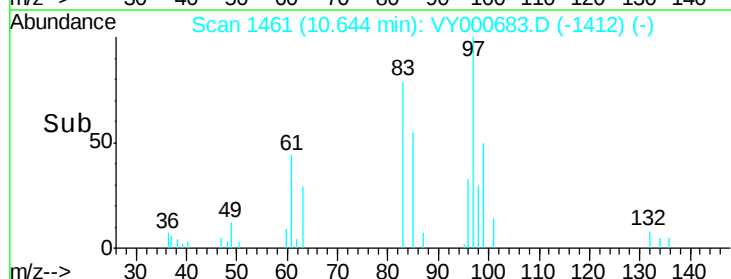
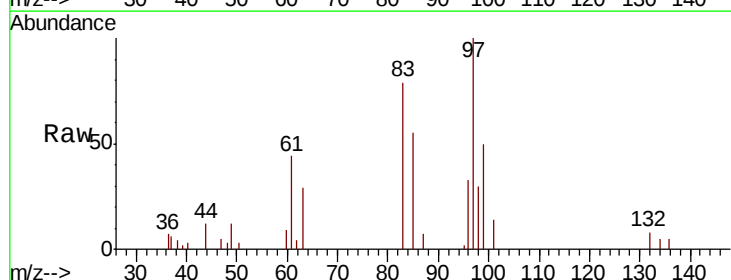
Ion Ratio Lower Upper

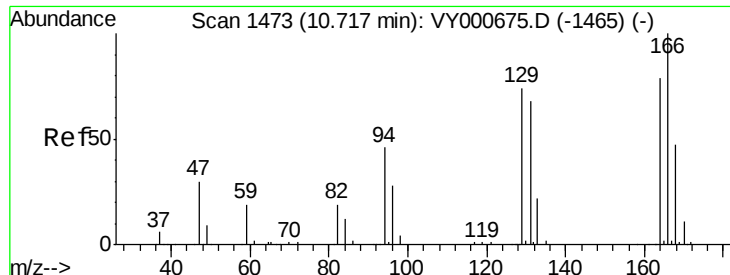
97 100

99 49.5 40.6 75.4

83 79.3 60.0 111.4

85 55.1 37.9 70.5





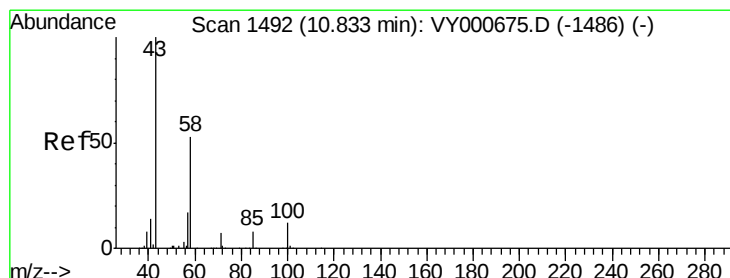
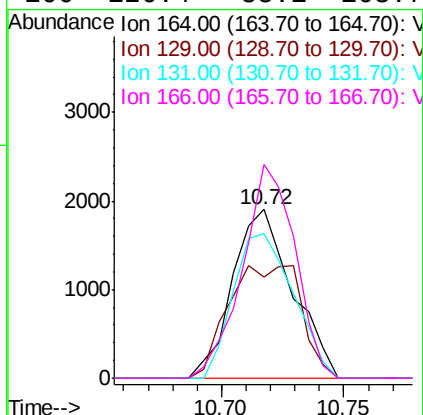
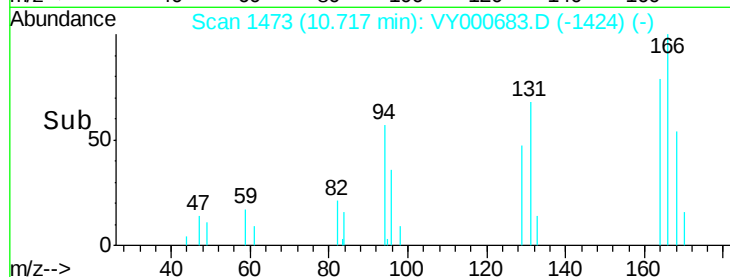
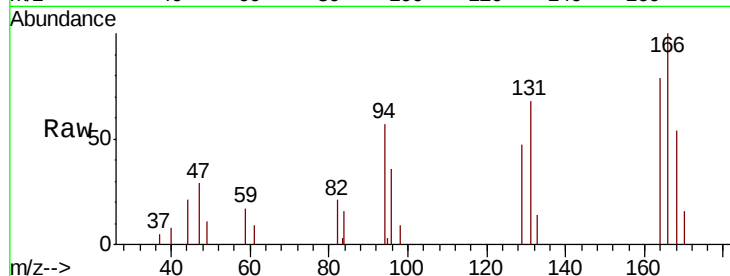
#46
Tetrachloroethene
Concen: 1.988 ug/L
RT: 10.72 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampleId :
MDL4

Tot Ion	Ratio	Lower	Upper
164	100		
129	60.0	65.5	121.7#
131	85.4	60.1	111.7
166	126.4	88.1	163.7

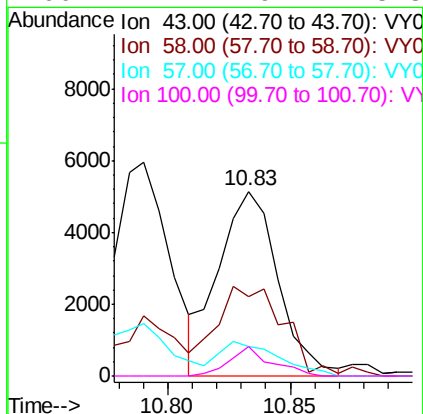
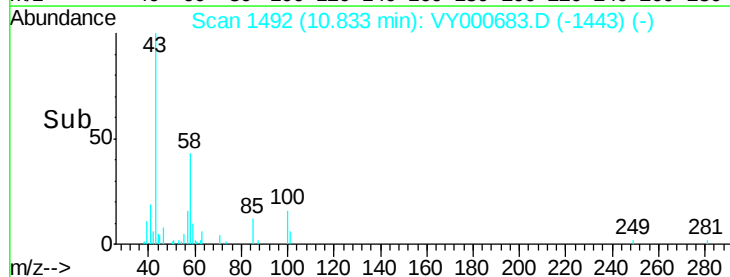
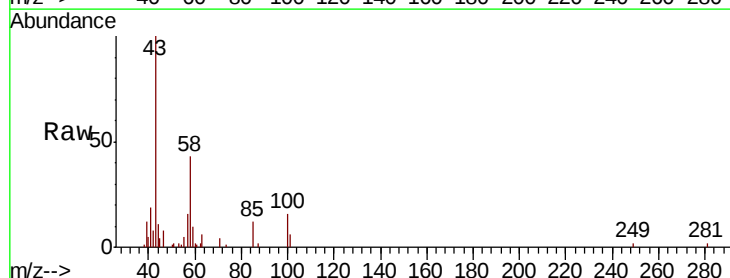
Manual Integrations
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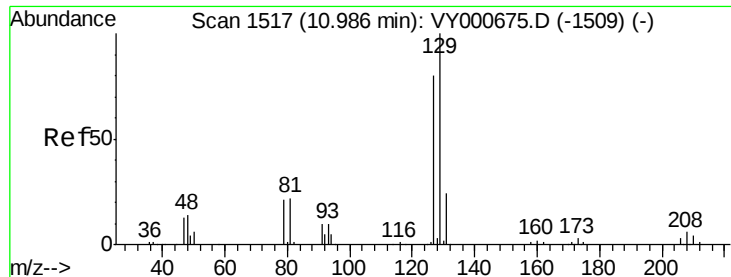
MMDadoda
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#48
2-Hexanone
Concen: 5.076 ug/L
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	52.9	42.3	63.5
57	18.3	13.8	20.6
100	11.2	9.2	13.8





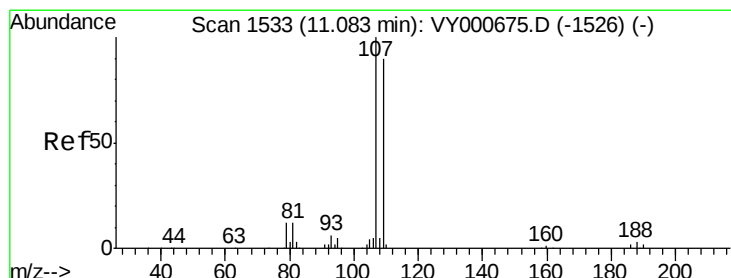
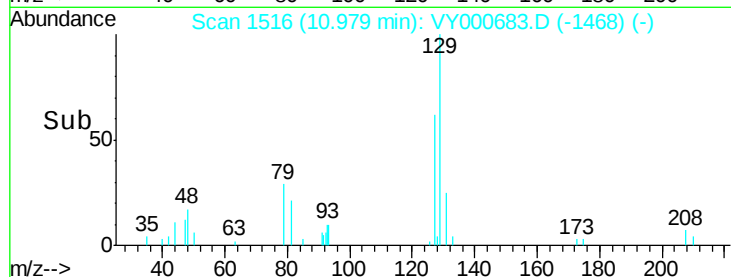
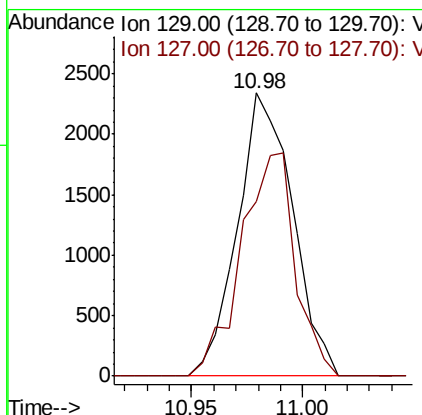
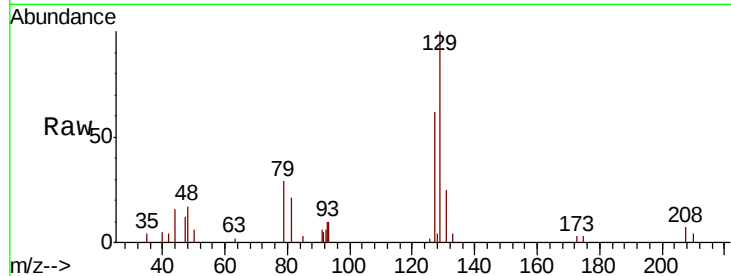
#49
 Dibromochloromethane
 Concen: 1.893 ug/L
 RT: 10.98 min Scan# 1516
 Delta R.T. -0.01 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleID :
 MDL4

Tot Ion:129 Resp: 4043
 Ion Ratio Lower Upper
 129 100
 127 61.8 55.9 103.7

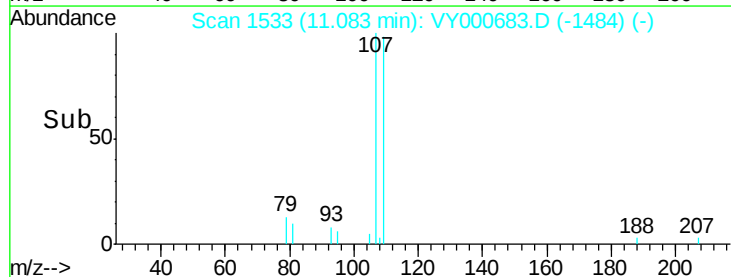
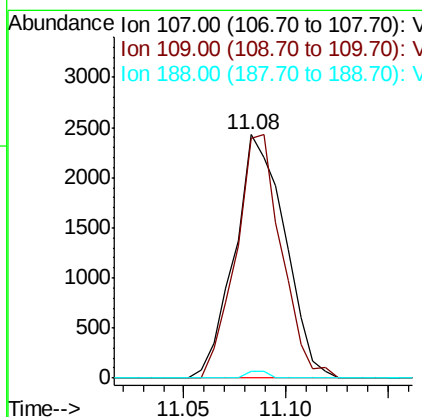
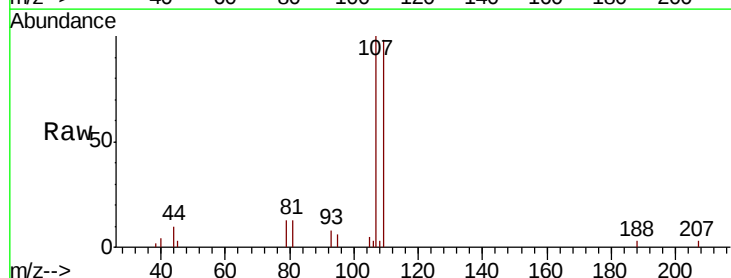
Manual Integrations
 APPROVED

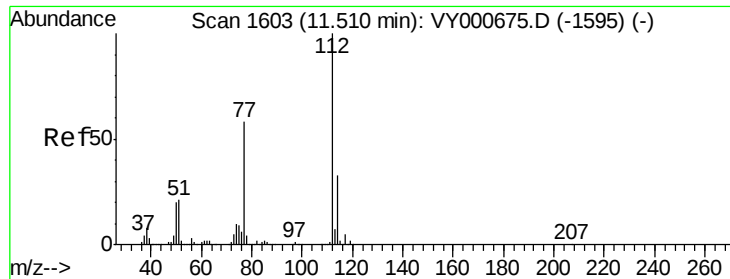
MMDadoda
 11/15/2019 3:05:11 PM



#50
 1,2-Dibromoethane
 Concen: 2.108 ug/L
 RT: 11.08 min Scan# 1533
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Tgt Ion:107 Resp: 4160
 Ion Ratio Lower Upper
 107 100
 109 98.4 62.9 116.9
 188 2.8 2.4 3.6





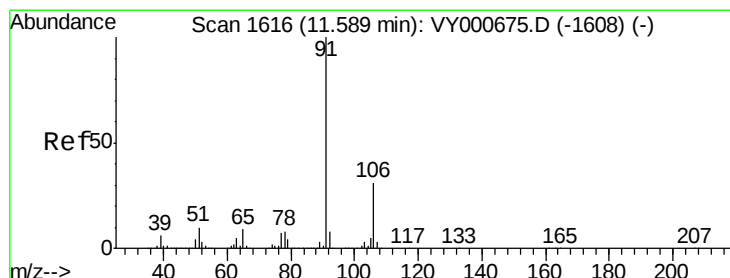
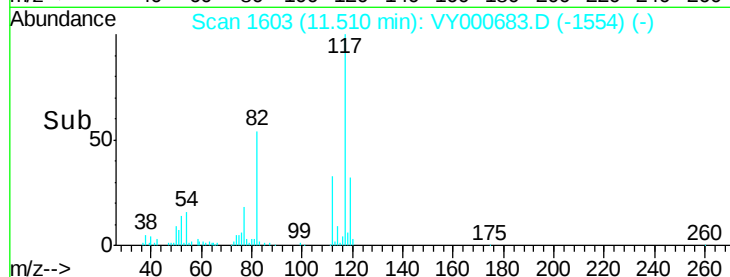
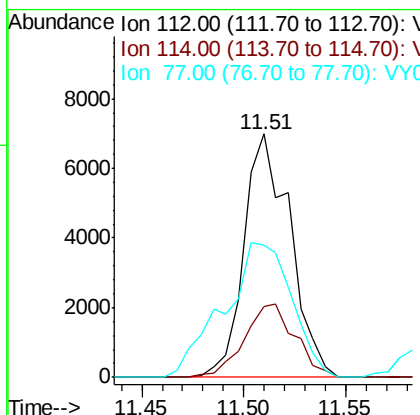
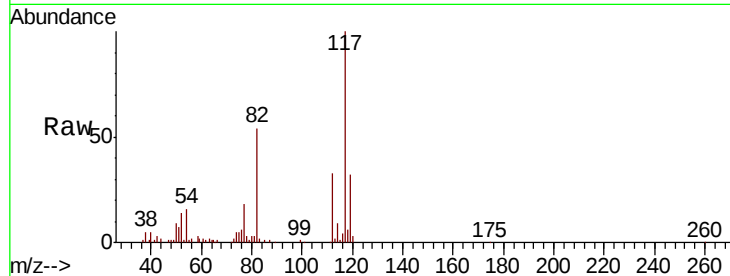
#51
Chlorobenzene
Concen: 1.919 ug/L
RT: 11.51 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampled :
MDL4

Tot Ion	Ratio	Lower	Upper
112	100		
114	28.9	23.3	43.3
77	54.5	46.5	69.7

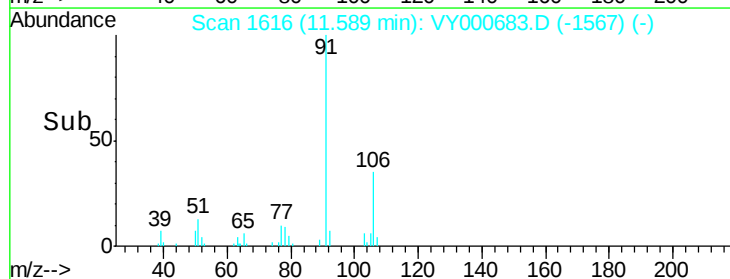
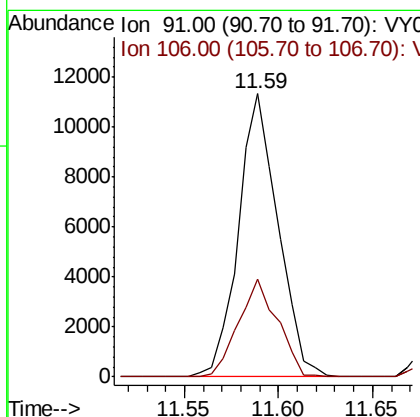
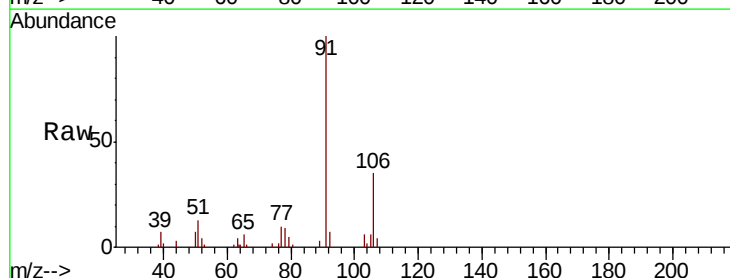
Manual Integrations
APPROVED

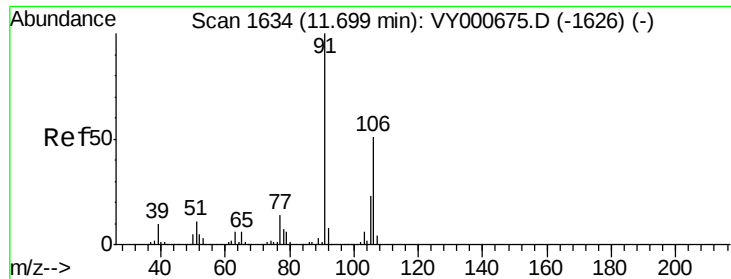
MMDadoda
11/15/2019 3:05:11 PM



#52
Ethylbenzene
Concen: 1.627 ug/L
RT: 11.59 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.7	21.8	40.6





#53

m,p-Xylene

Concen: 1.805 ug/L

RT: 11.70 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

ClientSampled :

MDL4

Tot Ion:106 Resp: 7026

Ion Ratio Lower Upper

106 100

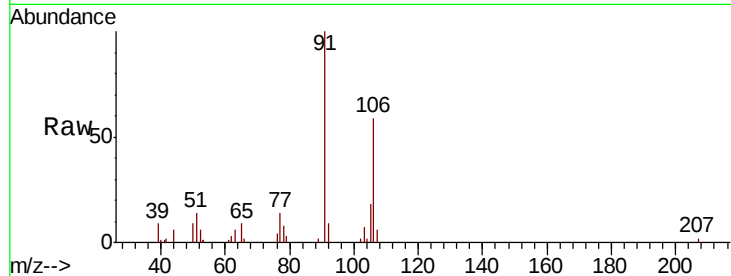
91 168.7 137.6 255.6

Manual Integrations

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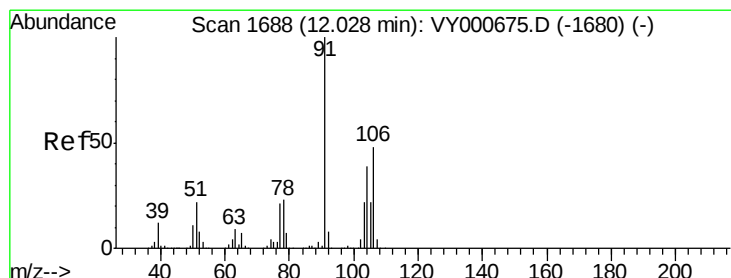
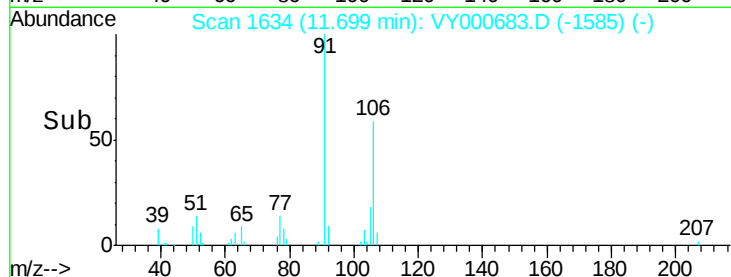
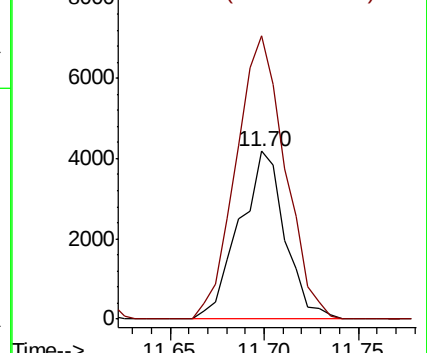
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#54

o-xylene

Concen: 1.699 ug/L

RT: 12.02 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VY000683.D

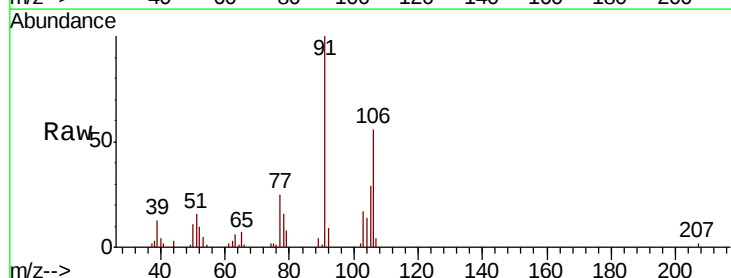
Acq: 14 Nov 2019 20:04

Tgt Ion:106 Resp: 6484

Ion Ratio Lower Upper

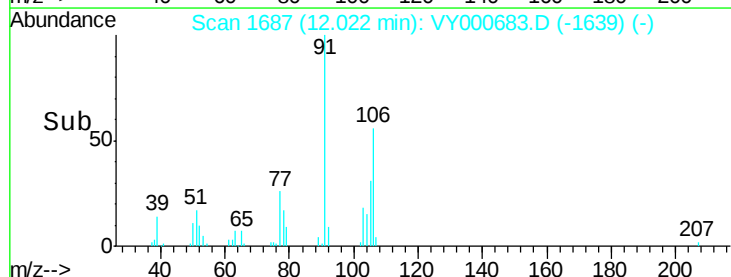
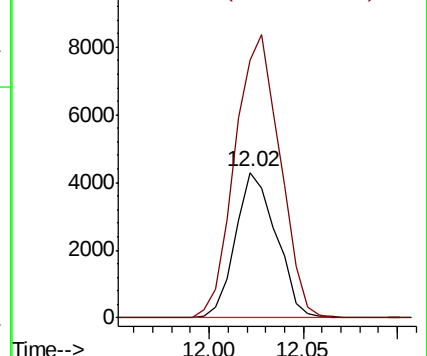
106 100

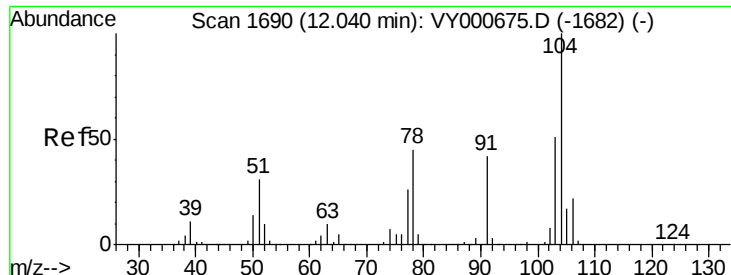
91 177.3 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





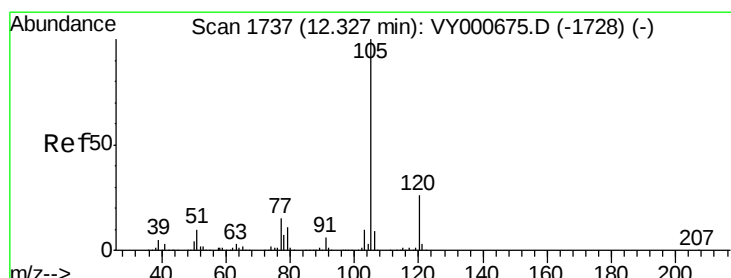
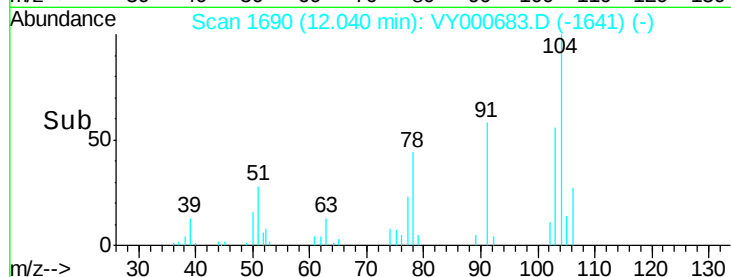
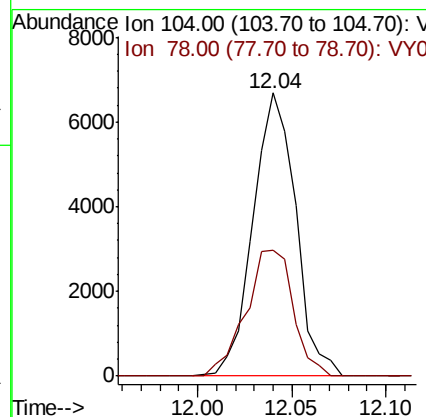
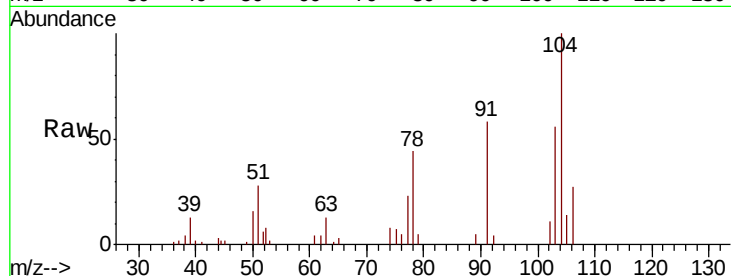
#55
Stvrene
Concen: 1.615 ug/L
RT: 12.04 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampled :
MDL4

Tot Ion:104 Resp: 10472
Ion Ratio Lower Upper
104 100
78 44.5 31.4 58.4

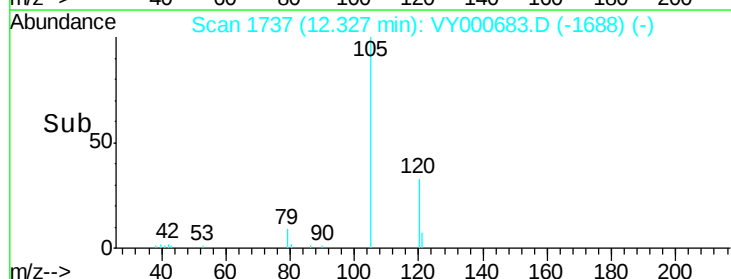
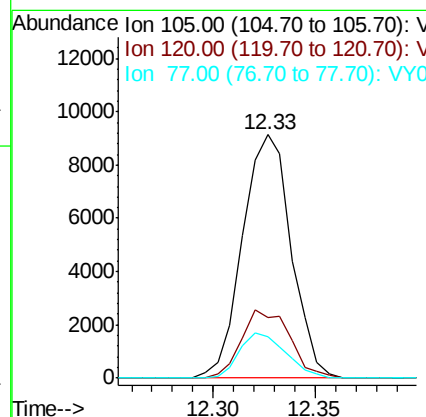
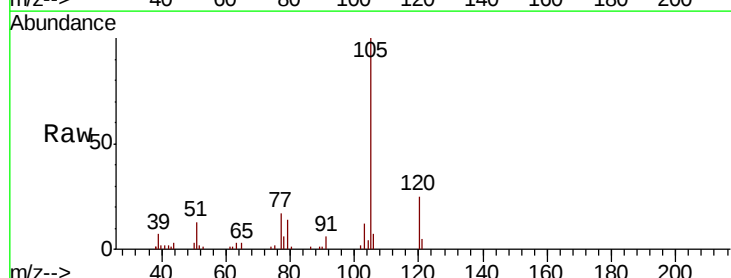
Manual Integrations
APPROVED

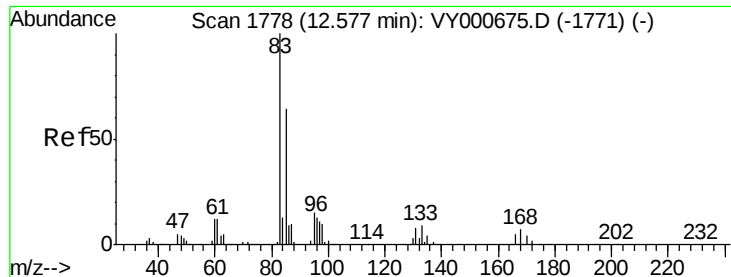
MMDadoda
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#56
Isopropylbenzene
Concen: 1.549 ug/L
RT: 12.33 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion:105 Resp: 15124
Ion Ratio Lower Upper
105 100
120 27.9 21.4 32.2
77 17.6 12.9 19.3





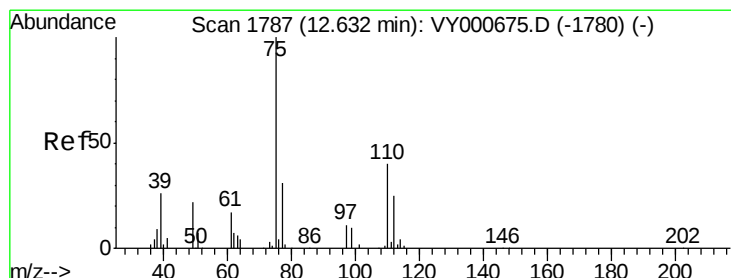
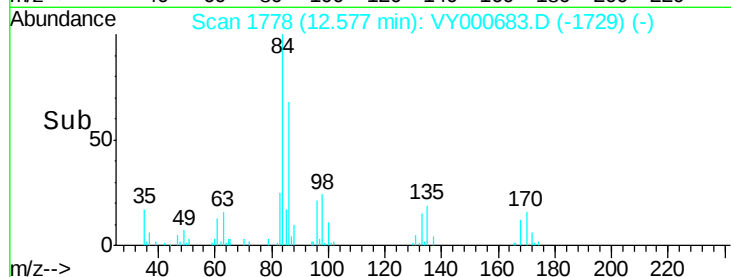
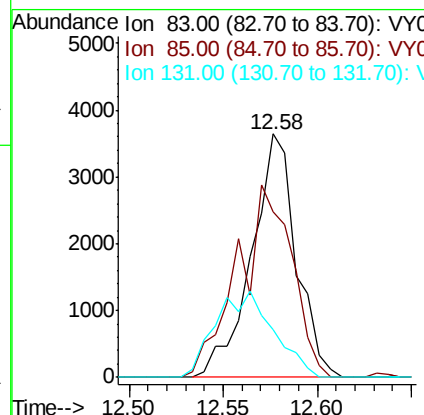
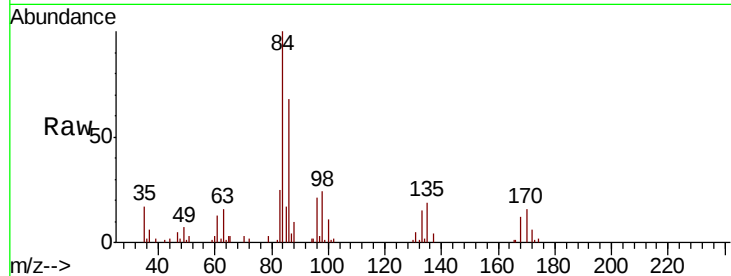
#58
 1,1,2,2-Tetrachloroethane
 Concen: 2.146 ug/L
 RT: 12.58 min Scan# 1778
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleID :
 MDL4

Tot Ion	Ratio	Lower	Upper
83	100		
85	67.9	45.0	83.6
131	19.6	6.6	9.8#

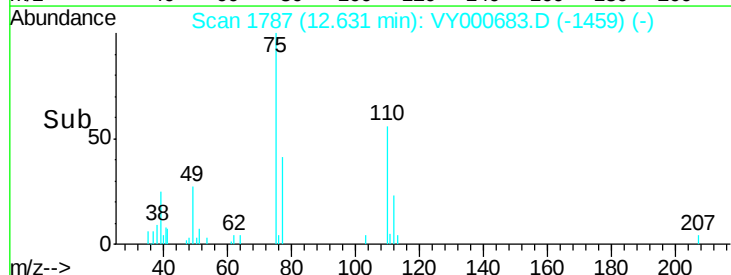
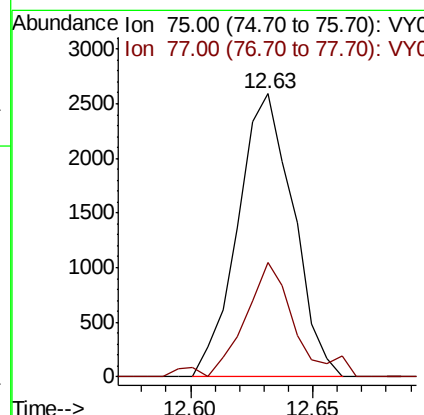
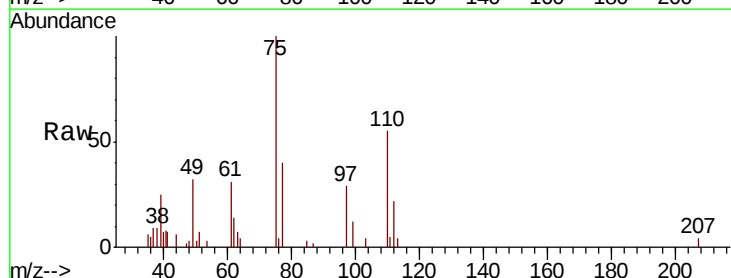
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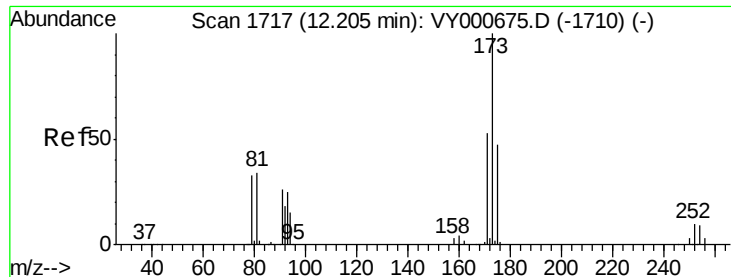
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#59
 1,2,3-Trichloropropane
 Concen: 1.860 ug/L
 RT: 12.63 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.6	25.5	38.3





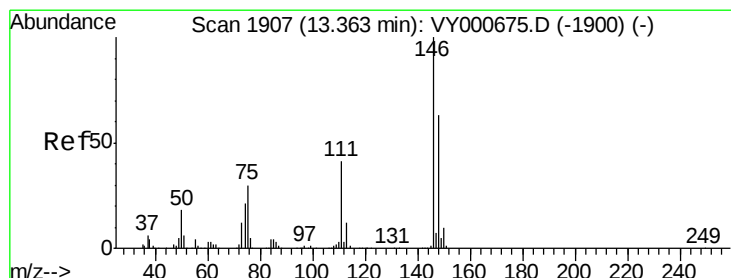
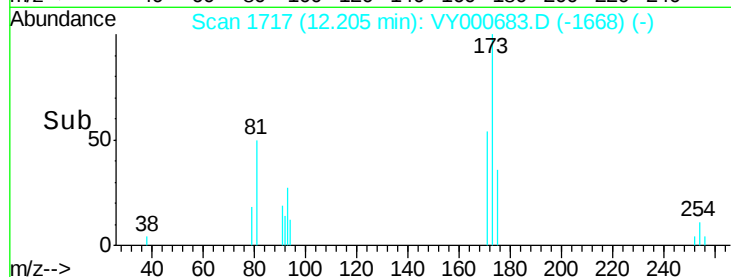
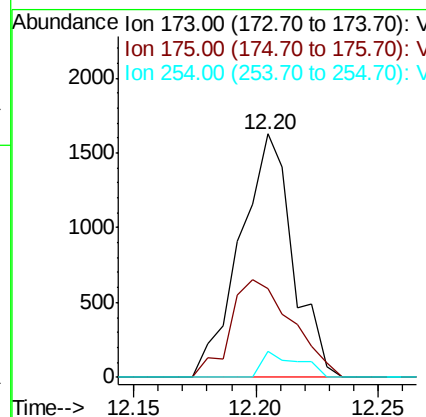
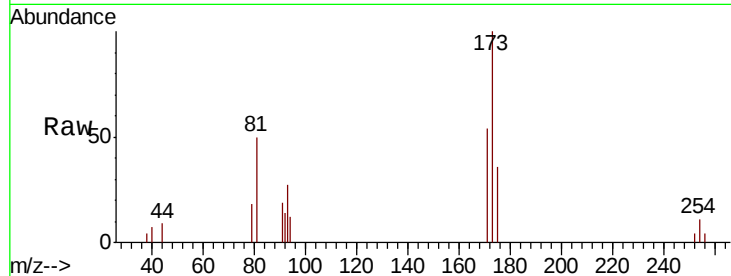
#61
Bromoform
Concen: 1.869 ug/L
RT: 12.20 min Scan# 1717
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Instrument :
MSVOA_Y
ClientSampleId :
MDL4

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.7	36.6	55.0
254	5.8	7.4	11.2

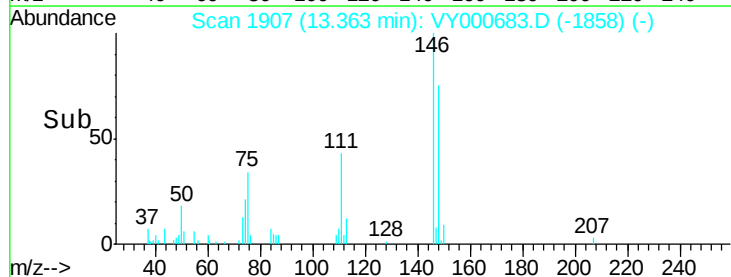
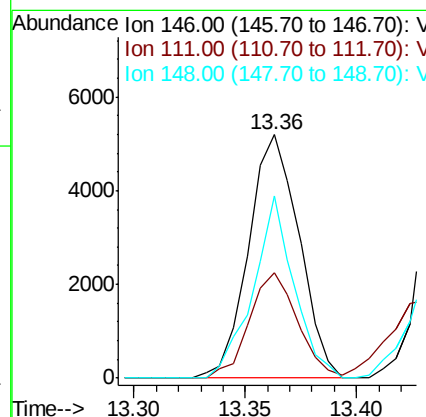
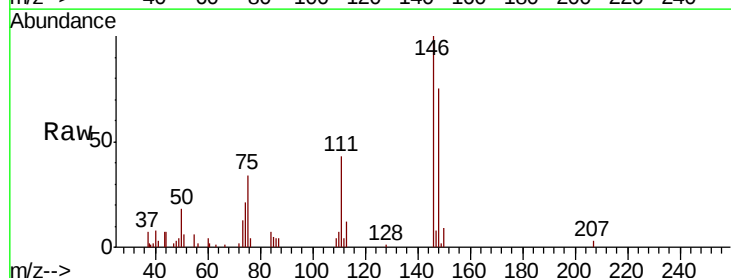
Manual Integrations
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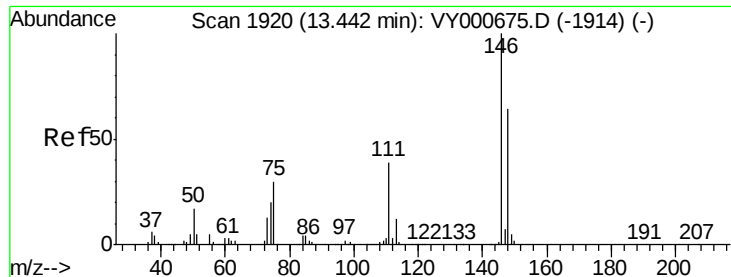
MMDadoda
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#62
1,3-Dichlorobenzene
Concen: 2.018 ug/L
RT: 13.36 min Scan# 1907
Delta R.T. -0.00 min
Lab File: VY000683.D
Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	28.4	52.8
148	74.8	44.1	81.9





#63

1,4-Dichlorobenzene

Concen: 2.081 ug/L

RT: 13.44 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

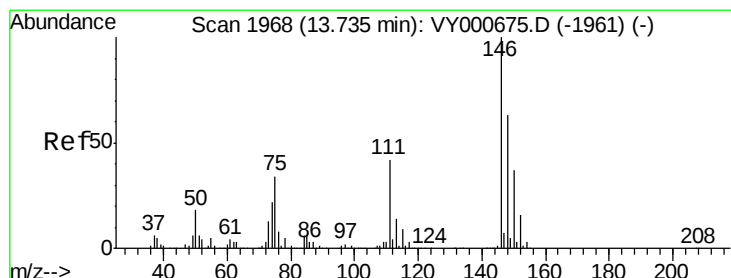
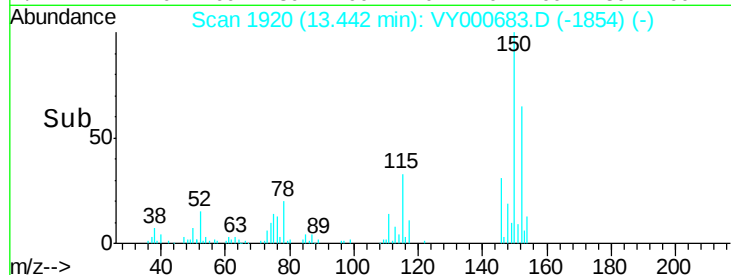
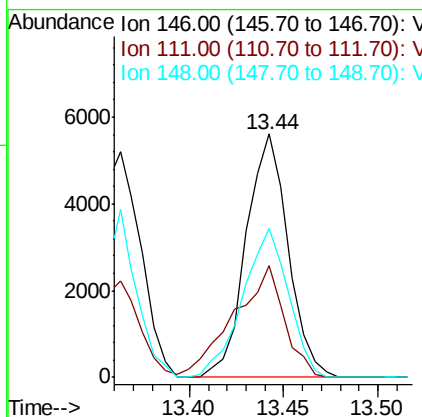
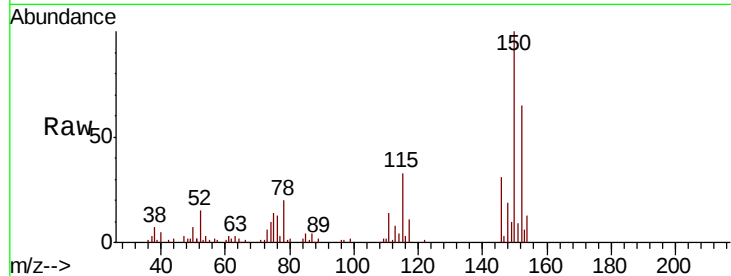
ClientSampled :

MDL4

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	27.4	51.0
148	61.2	45.2	84.0

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#65

1,2-Dichlorobenzene

Concen: 2.150 ug/L

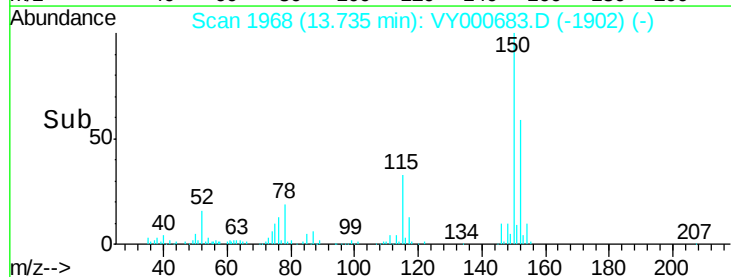
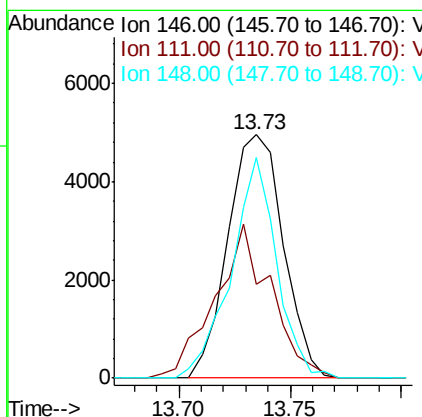
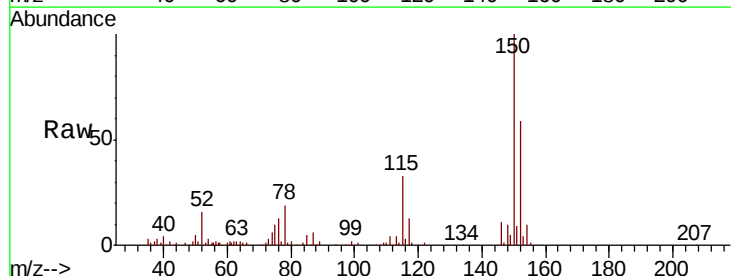
RT: 13.73 min Scan# 1968

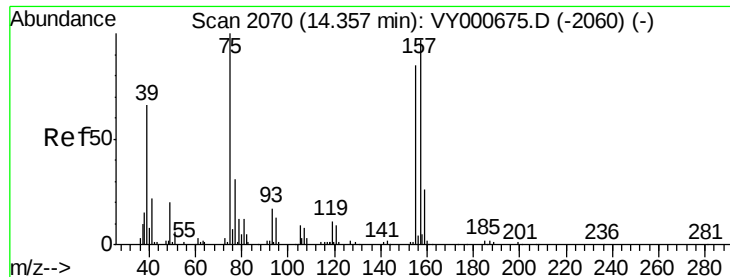
Delta R.T. -0.00 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	33.4	50.0
148	90.7	50.8	76.2#





#66

1,2-Dibromo-3-chloropropane

Concen: 2.068 ug/L m

RT: 14.35 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Instrument :

MSVOA_Y

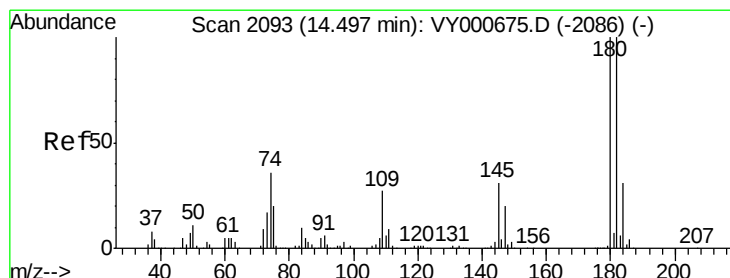
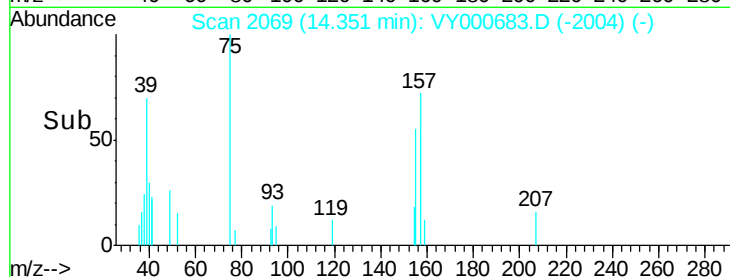
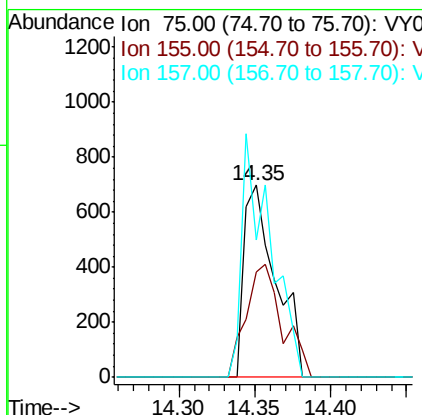
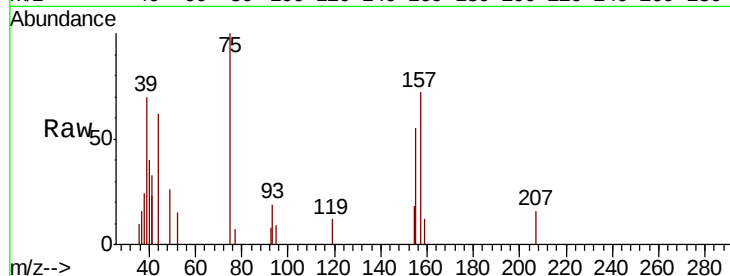
ClientSampleId :

MDL4

Tot Ion:	75	Resp:	999
Ion	Ratio	Lower	Upper
75	100		
155	54.6	67.7	101.5#
157	71.7	77.8	116.8#

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#67

1,3,5-Trichlorobenzene

Concen: 1.947 ug/L

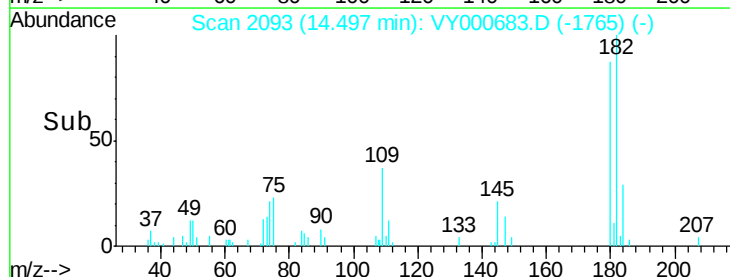
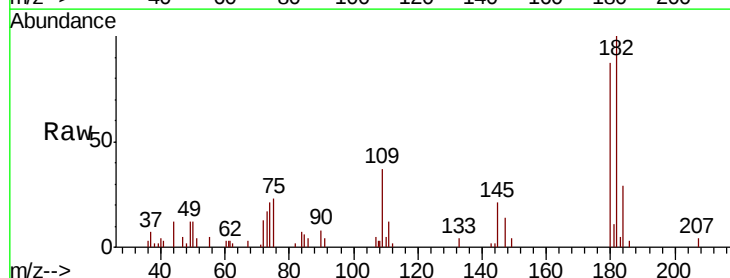
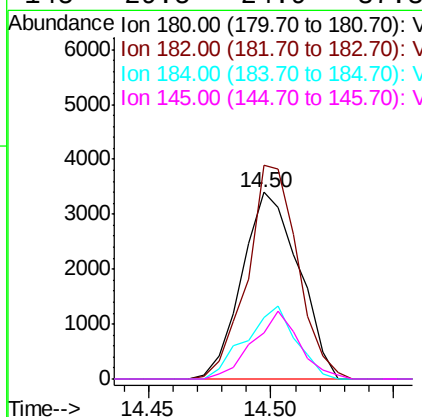
RT: 14.50 min Scan# 2093

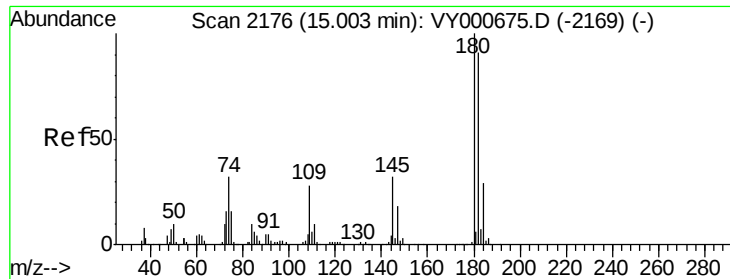
Delta R.T. -0.00 min

Lab File: VY000683.D

Acq: 14 Nov 2019 20:04

Tgt Ion:	180	Resp:	5518
Ion	Ratio	Lower	Upper
180	100		
182	101.4	77.8	116.6
184	34.6	25.2	37.8
145	29.5	24.9	37.3





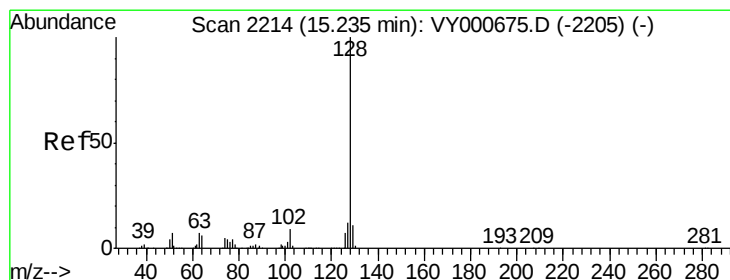
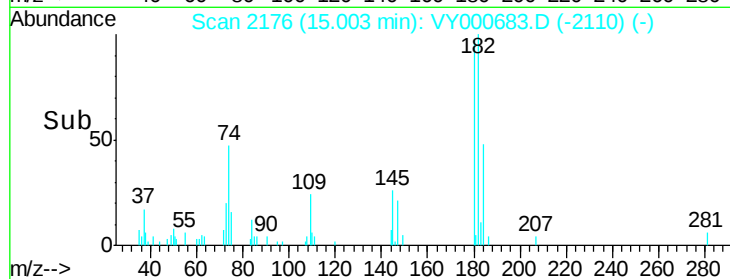
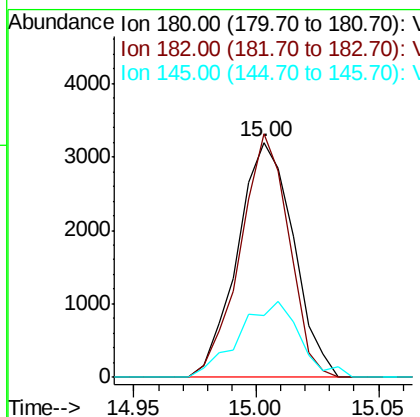
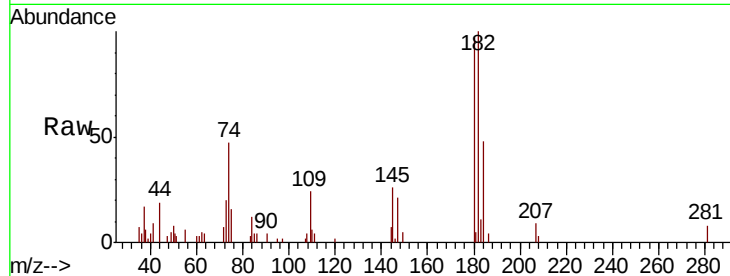
#68
 1,2,4-trichlorobenzene
 Concen: 1.913 ug/L
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL4

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.1	75.5	113.3
145	35.0	25.4	38.0

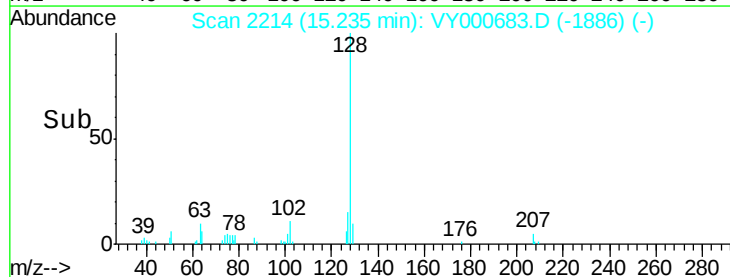
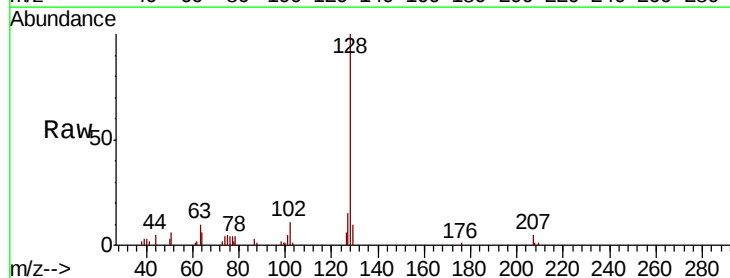
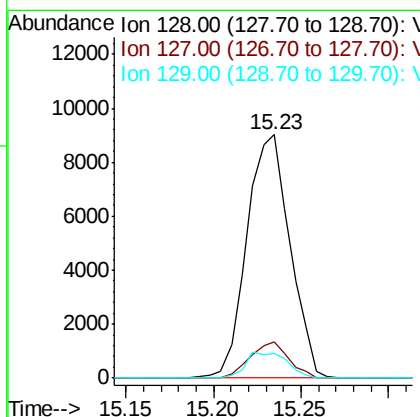
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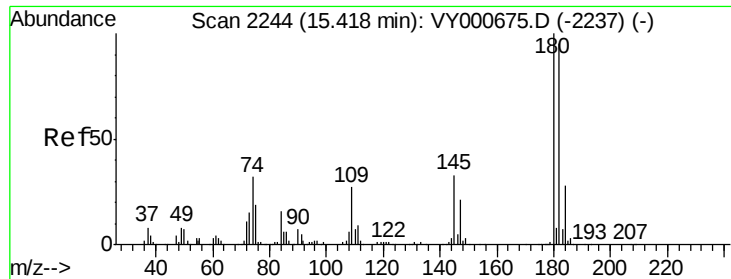
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#69
 Naphthalene
 Concen: 1.949 ug/L
 RT: 15.23 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.1	15.1
129	10.0	8.7	13.1





#70
 1,2,3-Trichlorobenzene
 Concen: 1.956 ug/L
 RT: 15.42 min Scan# 2245
 Delta R.T. 0.01 min
 Lab File: VY000683.D
 Acq: 14 Nov 2019 20:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL4

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	75.3	112.9
145	37.3	25.8	38.8

Manual Integrations
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