

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000666.D
 Acq On : 13 Nov 2019 12:38
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:59:03 AM

Quant Time: Nov 14 08:01:52 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M

Quant Title : VOC Analysis

QLast Update : Thu Nov 14 01:29:14 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	341502	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	310940	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	144167	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	113588	23.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.20%
7) Chloroethane-d5	2.77	69	98944	23.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.36%
10) 1,1-Dichloroethene-d2	3.85	63	157228	17.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.60%
20) 2-Butanone-d5	6.91	46	88492	44.47	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.94%
24) Chloroform-d	7.49	84	201830	22.52	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.08%
26) 1,2-Dichloroethane-d4	8.15	65	118918	22.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.56%
29) Benzene-d6	8.12	84	430412	23.84	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.36%
33) 1,2-Dichloropropane-d6	9.13	67	134659	23.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.16%
37) Toluene-d8	10.18	98	386628	22.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.68%
38) trans-1,3-Dichloropropene-	10.44	79	60446	22.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.56%
39) 2-Hexanone-d5	10.79	63	64845	42.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.80%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	115212	20.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	83.72%
61) 1,2-Dichlorobenzene-d4	13.72	152	133075	23.08	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.32%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.90	85	3108	0.689 ug/L	99
3) Chloromethane	2.11	50	3489	0.617 ug/L	99
5) Vinyl chloride	2.25	62	4226	0.749 ug/L #	36
6) Bromomethane	2.66	94	2101	0.681 ug/L	93
8) Chloroethane	2.80	64	2534m	0.716 ug/L	
9) Trichlorofluoromethane	3.13	101	5772	0.722 ug/L	90
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	2883m	0.636 ug/L	
12) 1,1-Dichloroethene	3.88	96	3938	0.889 ug/L #	1
13) Acetone	3.96	43	4501	3.091 ug/L	61
14) Carbon disulfide	4.21	76	7685	0.563 ug/L #	89
15) Methyl Acetate	4.49	43	1946m	0.583 ug/L	
16) Methylene chloride	4.73	84	13064	2.317 ug/L	91
17) Methyl tert-butyl Ether	5.24	73	8205m	0.609 ug/L	
18) trans-1,2-Dichloroethene	5.25	96	2953m	0.597 ug/L	
19) 1,1-Dichloroethane	6.02	63	5272m	0.606 ug/L	
21) 2-Butanone	7.00	43	5408	2.108 ug/L #	60
22) cis-1,2-Dichloroethene	6.99	96	2950m	0.539 ug/L	

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Quant Time: Nov 14 08:01:52 2019
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 Quant Title : VOC Analysis
 QLast Update : Thu Nov 14 01:29:14 2019
 Response via : Initial Calibration

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

23) Bromochloromethane	7.34	128	1319m	0.552	ug/L	
25) Chloroform	7.52	83	11850m	1.263	ug/L	
27) 1,2-Dichloroethane	8.25	62	4157	0.663	ug/L	95
30) Cyclohexane	7.80	56	4785m	0.564	ug/L	
31) 1,1,1-Trichloroethane	7.72	97	4612	0.602	ug/L	95
32) Carbon tetrachloride	7.91	117	4063m	0.609	ug/L	
34) Benzene	8.17	78	11847	0.583	ug/L	100
35) Trichloroethene	8.94	95	3337m	0.626	ug/L	
36) Methylcyclohexane	9.18	83	4669	0.512	ug/L	92
40) 1,2-Dichloropropane	9.23	63	3418	0.663	ug/L	99
41) Bromodichloromethane	9.50	83	3677	0.555	ug/L	91
42) cis-1,3-Dichloropropene	9.93	75	4582	0.552	ug/L	88
43) 4-Methyl-2-pentanone	10.08	43	6896	1.400	ug/L	98
44) Toluene	10.25	91	13324	0.606	ug/L	99
45) trans-1,3-Dichloropropene	10.47	75	3608m	0.506	ug/L	
46) 1,1,2-Trichloroethane	10.65	97	2450	0.580	ug/L	93
47) Tetrachloroethene	10.72	164	2616	0.657	ug/L	87
49) 2-Hexanone	10.83	43	5589	1.456	ug/L #	92
50) Dibromochloromethane	10.99	129	2703	0.566	ug/L #	53
51) 1,2-Dibromoethane	11.09	107	2471	0.601	ug/L #	96
52) Chlorobenzene	11.52	112	9164	0.657	ug/L #	80
53) Ethylbenzene	11.59	91	13852	0.557	ug/L	88
54) m,p-Xylene	11.70	106	5833	0.620	ug/L	73
55) o-xylene	12.03	106	5067	0.549	ug/L	61
56) Styrene	12.05	104	7538	0.491	ug/L	95
57) Isopropylbenzene	12.33	105	13845	0.576	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.58	83	3345	0.634	ug/L #	89
59) 1,2,3-Trichloropropane	12.64	75	2398	0.559	ug/L	96
62) Bromoform	12.21	173	1385m	0.506	ug/L	
63) 1,3-Dichlorobenzene	13.36	146	5644	0.549	ug/L	94
64) 1,4-Dichlorobenzene	13.44	146	6774	0.659	ug/L #	91
65) 1,2-Dichlorobenzene	13.73	146	5936	0.623	ug/L #	78
66) 1,2-Dibromo-3-chloropropan	14.36	75	547m	0.605	ug/L	
67) 1,3,5-Trichlorobenzene	14.51	180	4584m	0.639	ug/L	
68) 1,2,4-trichlorobenzene	15.00	180	4067	0.635	ug/L	97
69) Naphthalene	15.24	128	9774	0.612	ug/L #	92
70) 1,2,3-Trichlorobenzene	15.42	180	3483	0.585	ug/L	98

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

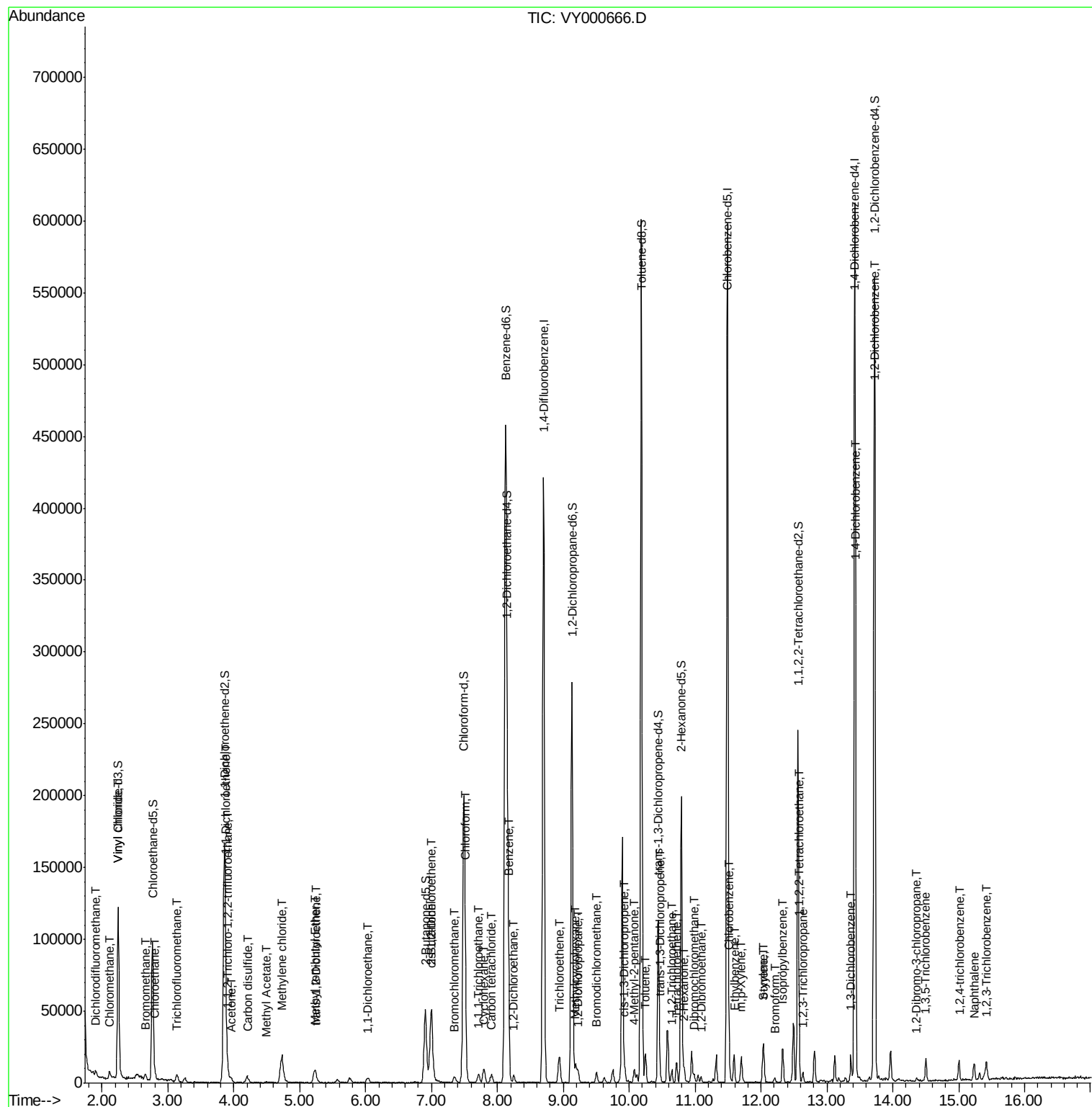
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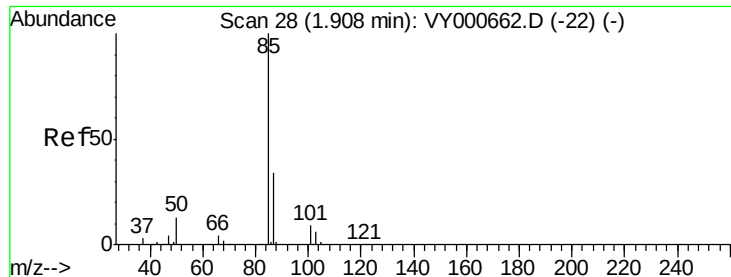
Instrument :
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#2

Dichlorodifluoromethane

Concen: 0.689 ug/L

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 3108

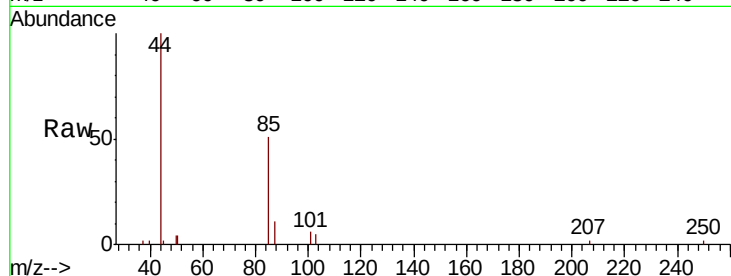
Ion Ratio Lower Upper

85 100

87 32.9 22.7 42.1

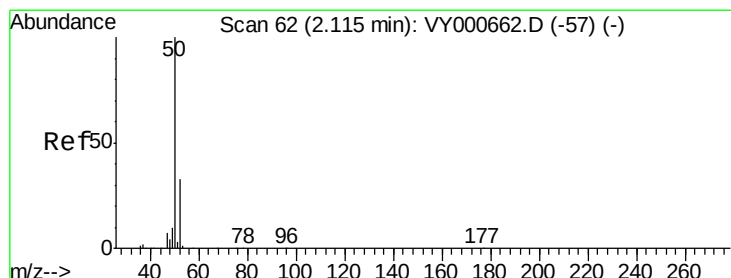
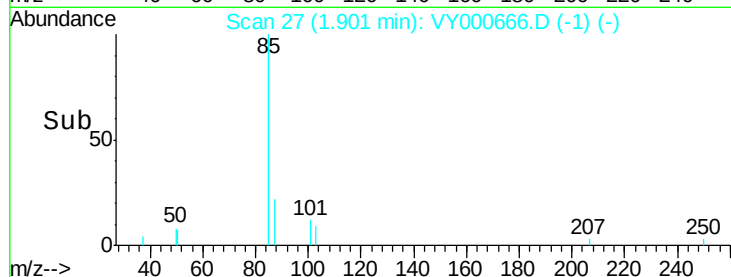
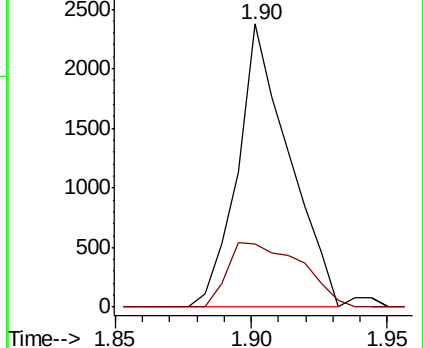
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Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 0.617 ug/L

RT: 2.11 min Scan# 61

Delta R.T. -0.01 min

Lab File: VY000666.D

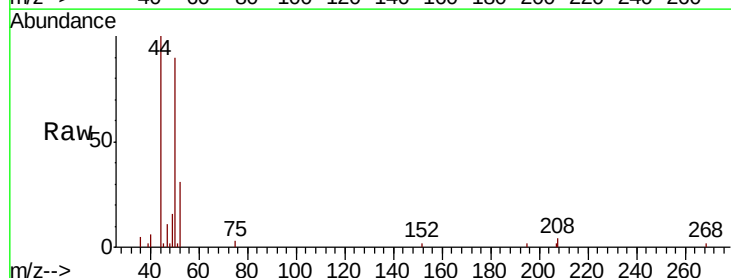
Acq: 13 Nov 2019 12:38

Tgt Ion: 50 Resp: 3489

Ion Ratio Lower Upper

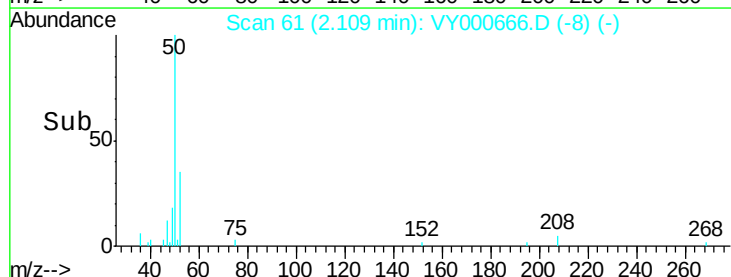
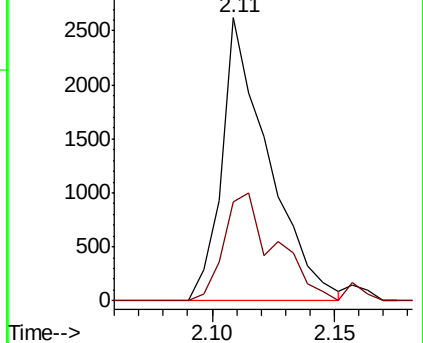
50 100

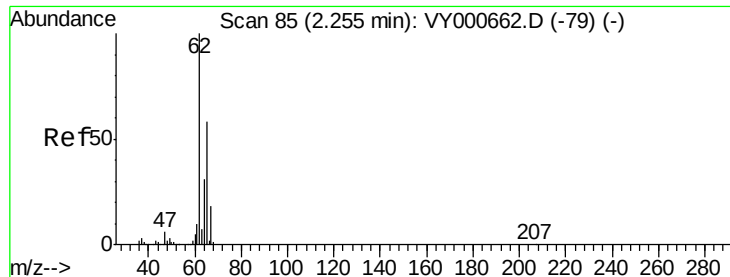
52 34.9 24.9 46.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 0.749 ug/L

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 4226

Ion Ratio Lower Upper

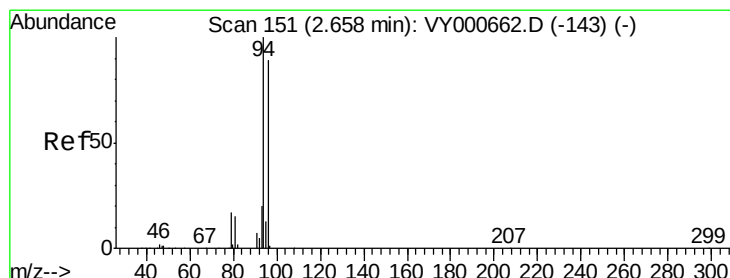
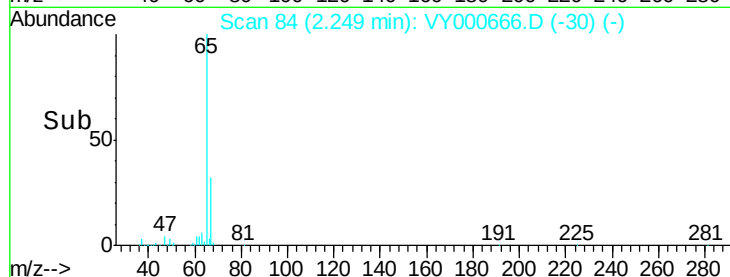
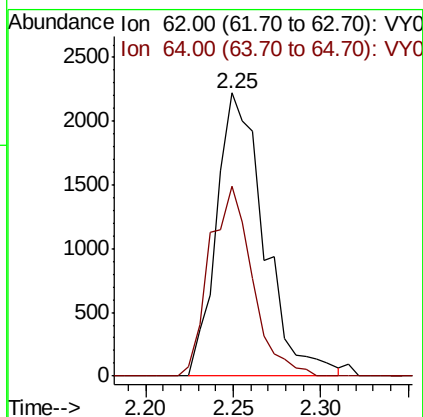
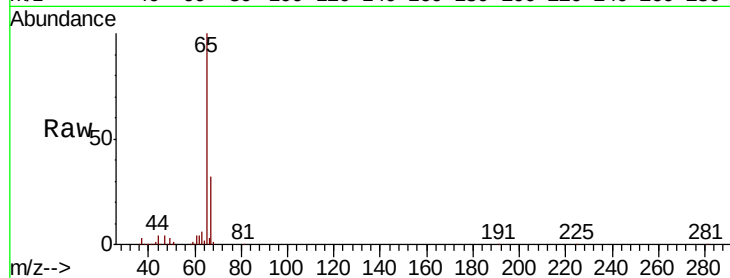
62 100

64 67.0 22.0 40.8#

Manual Integrations
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#6

Bromomethane

Concen: 0.681 ug/L

RT: 2.66 min Scan# 152

Delta R.T. 0.01 min

Lab File: VY000666.D

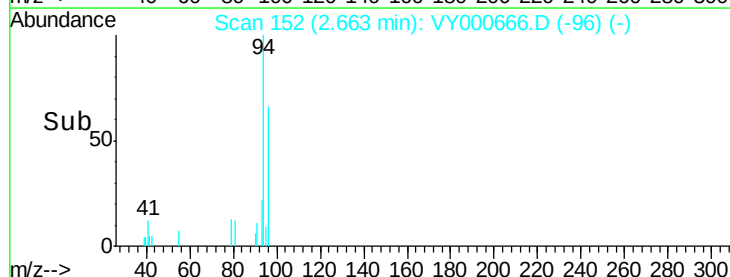
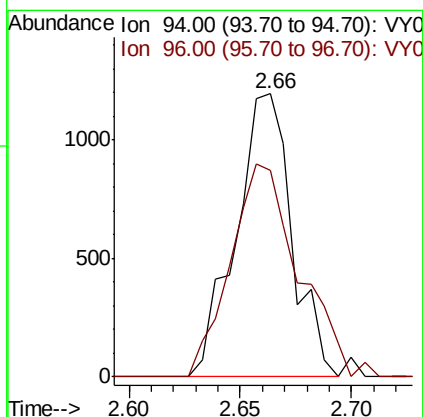
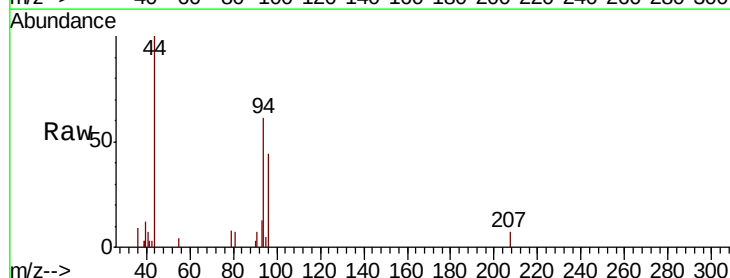
Acq: 13 Nov 2019 12:38

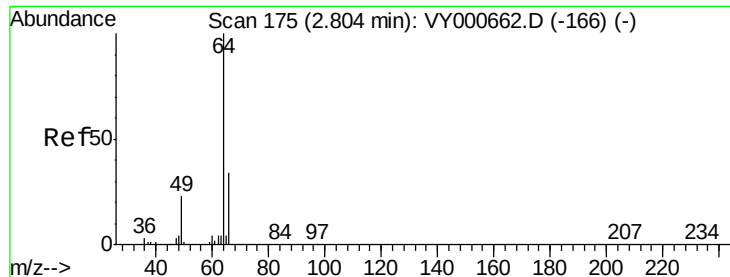
Tgt Ion: 94 Resp: 2101

Ion Ratio Lower Upper

94 100

96 91.0 9.8 185.6





#8

Chloroethane

Concen: 0.716 ug/L m

RT: 2.80 min Scan# 175

Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampleId :

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Tot Ion: 64 Resp: 2534

Ion Ratio Lower Upper

64 100

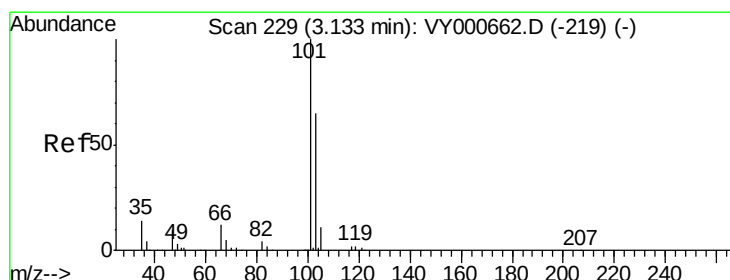
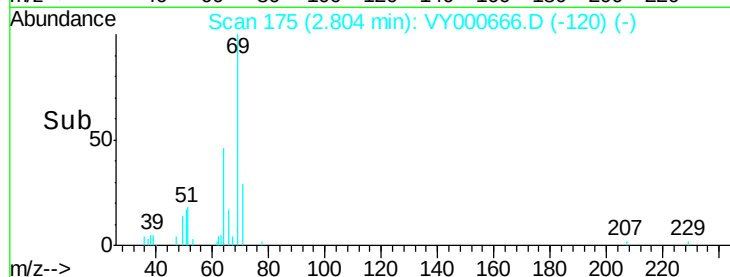
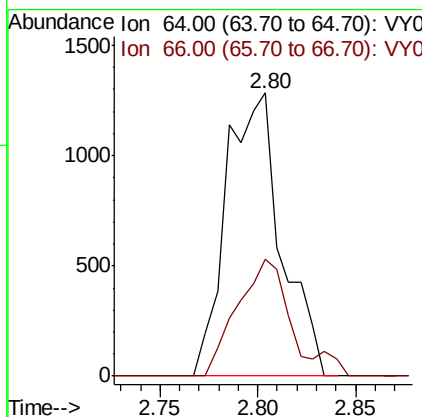
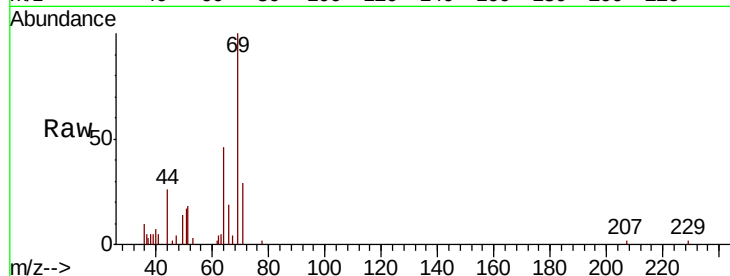
66 41.3 22.2 41.2#

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 0.722 ug/L

RT: 3.13 min Scan# 229

Delta R.T. 0.01 min

Lab File: VY000666.D

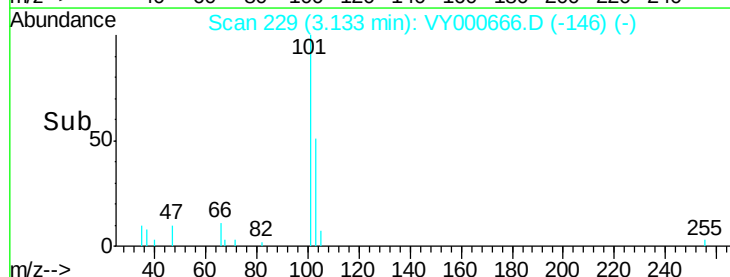
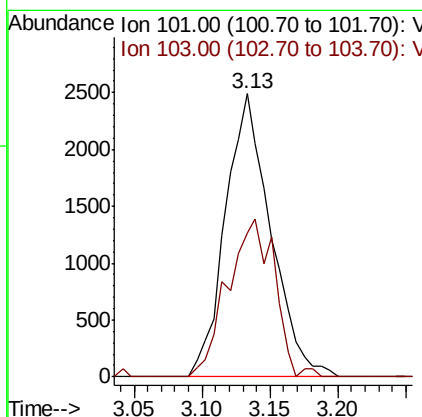
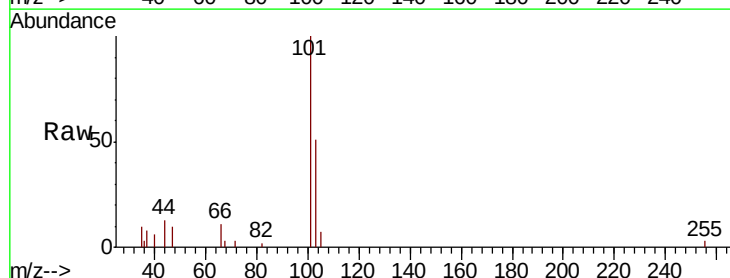
Acq: 13 Nov 2019 12:38

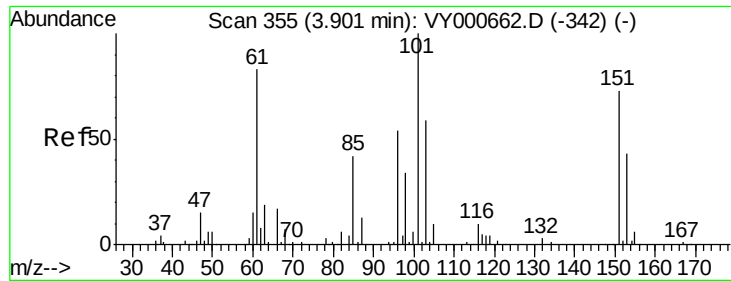
Tgt Ion: 101 Resp: 5772

Ion Ratio Lower Upper

101 100

103 57.3 45.8 85.0





#11

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

Concen: 0.636 ug/L m

RT: 3.91 min Scan# 356

Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

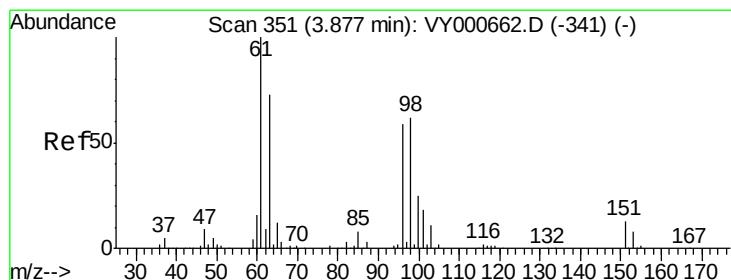
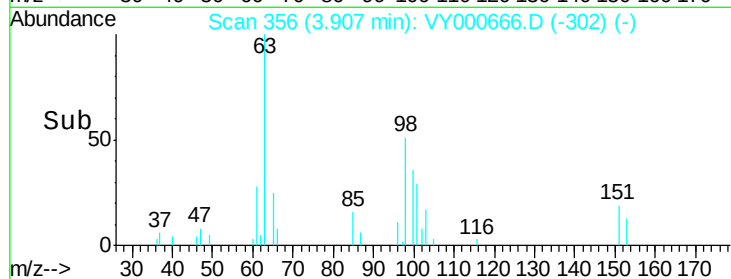
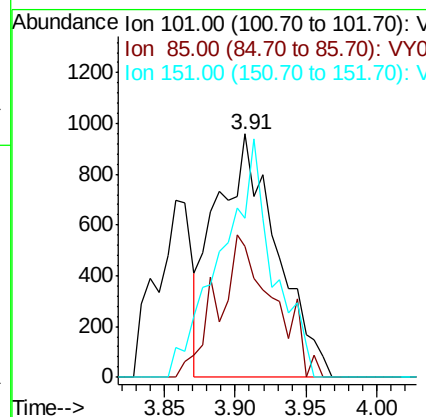
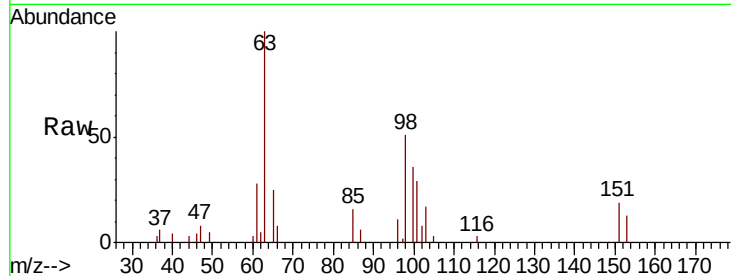
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	2883
Ion Ratio	Lower	Upper	
101	100		
85	36.6	35.3	52.9
151	82.2	61.9	92.9

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.889 ug/L

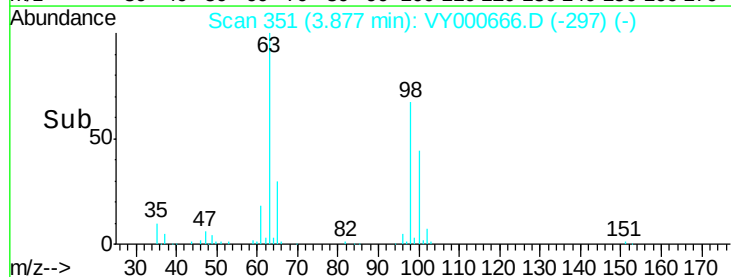
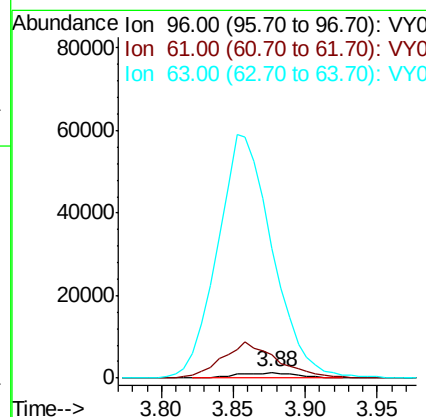
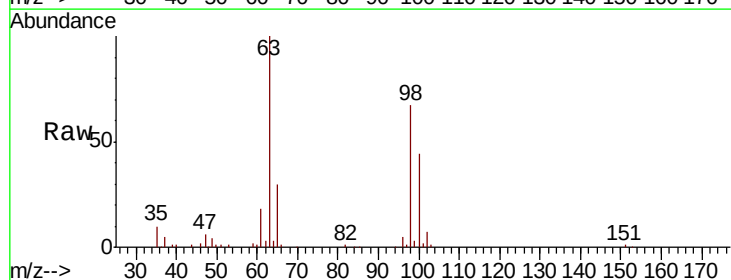
RT: 3.88 min Scan# 351

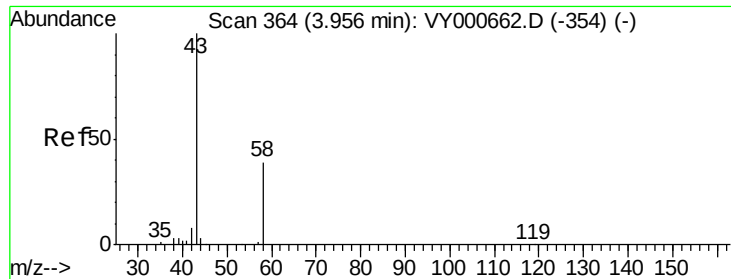
Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Tgt Ion:	96	Resp:	3938
Ion Ratio	Lower	Upper	
96	100		
61	380.5	113.5	210.9#
63	2134.8	94.3	175.1#





#13

Acetone

Concen: 3.091 ug/L

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampleId :

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Tot Ion: 43 Resp: 4501

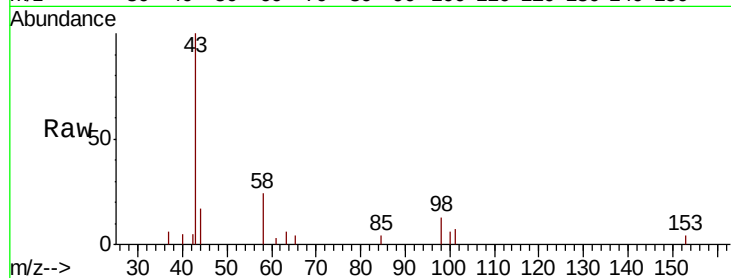
Ion Ratio Lower Upper

43 100

58 10.4 0.0 64.8

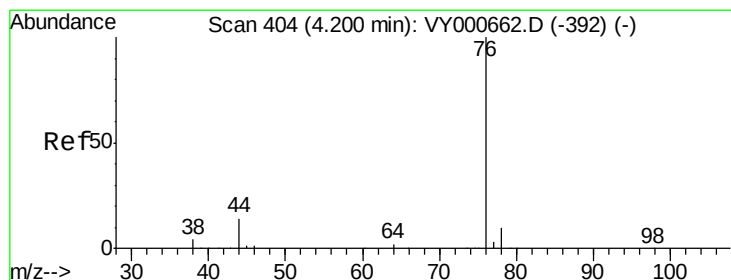
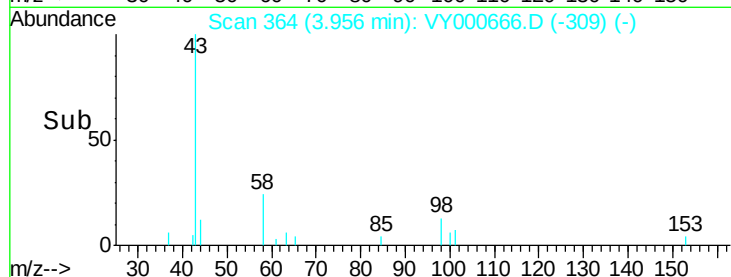
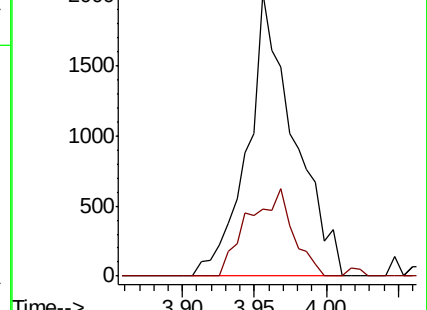
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11/19/2019 11:59:03 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 0.563 ug/L

RT: 4.21 min Scan# 405

Delta R.T. 0.01 min

Lab File: VY000666.D

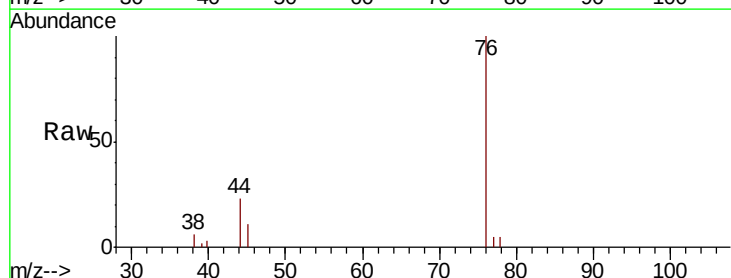
Acq: 13 Nov 2019 12:38

Tgt Ion: 76 Resp: 7685

Ion Ratio Lower Upper

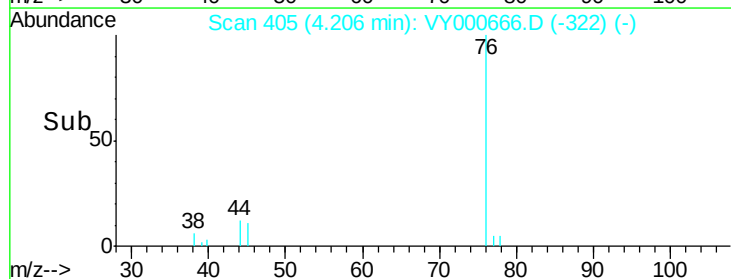
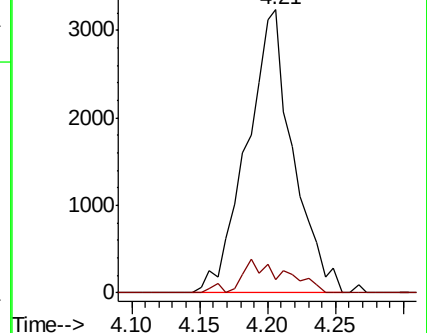
76 100

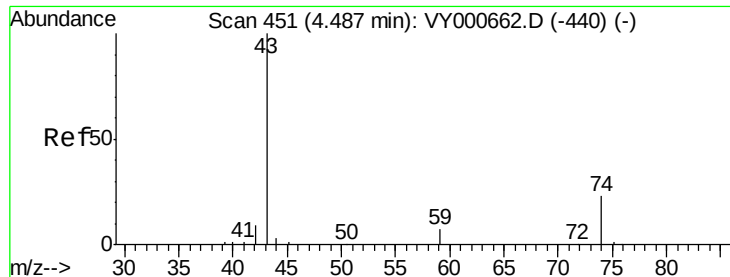
78 4.9 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





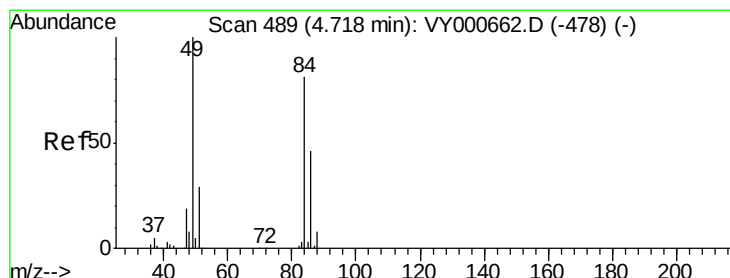
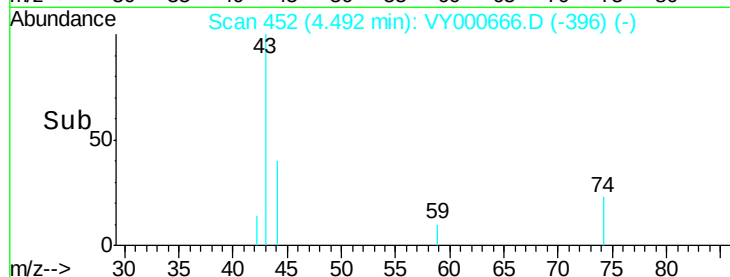
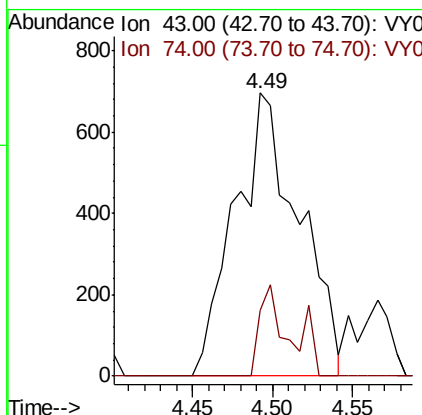
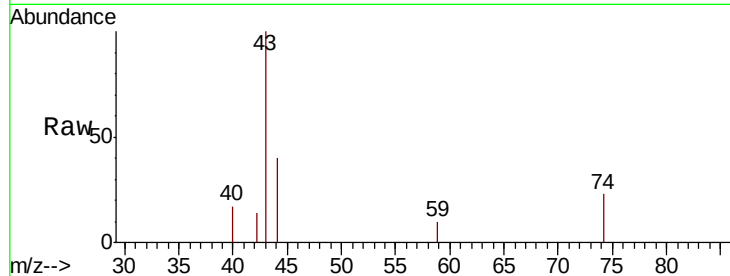
#15
Methyl Acetate
Concen: 0.583 ug/L m
RT: 4.49 min Scan# 452
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 1946
Ion Ratio Lower Upper
43 100
74 11.9 18.1 27.1#

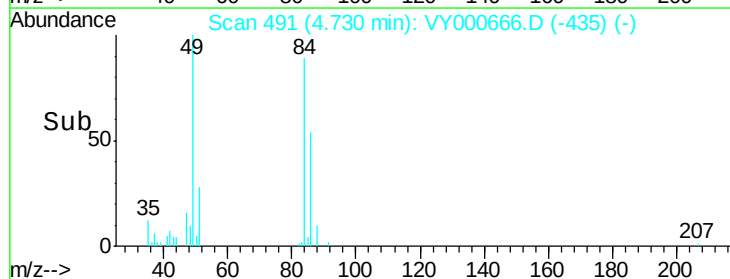
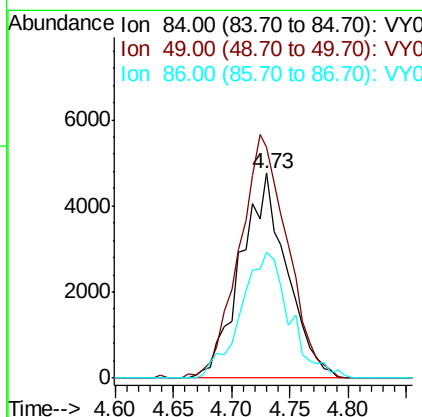
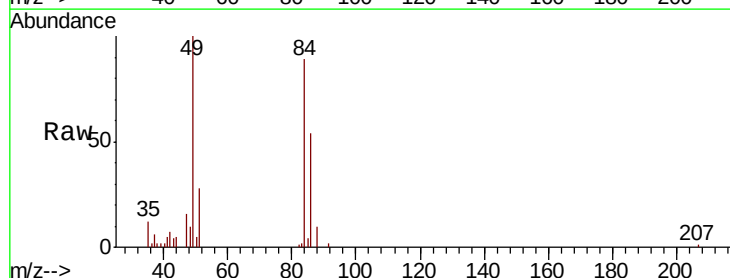
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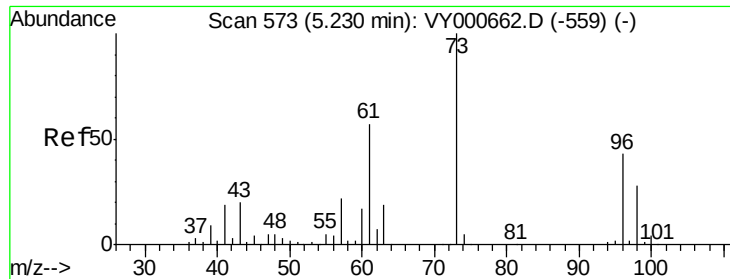
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#16
Methylene chloride
Concen: 2.317 ug/L
RT: 4.73 min Scan# 491
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion: 84 Resp: 13064
Ion Ratio Lower Upper
84 100
49 112.8 88.8 165.0
86 61.4 43.9 81.5





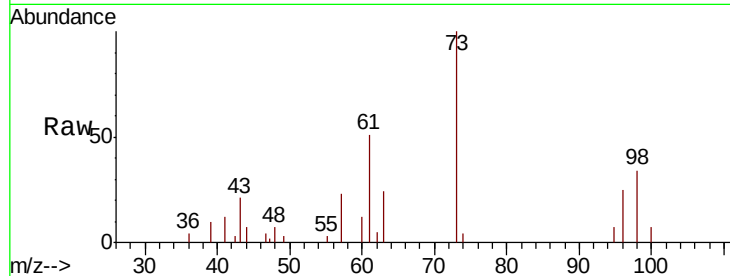
#17
Methyl tert-butyl Ether
Concen: 0.609 ug/L m
RT: 5.24 min Scan# 574
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampled :
MDL03

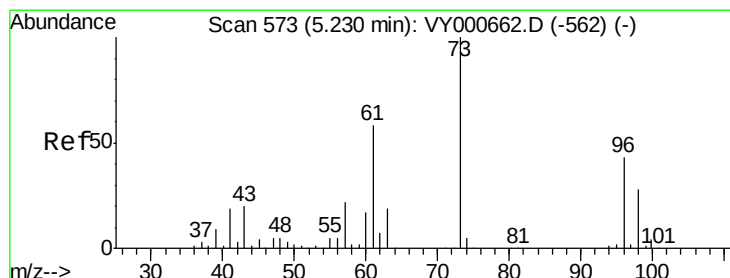
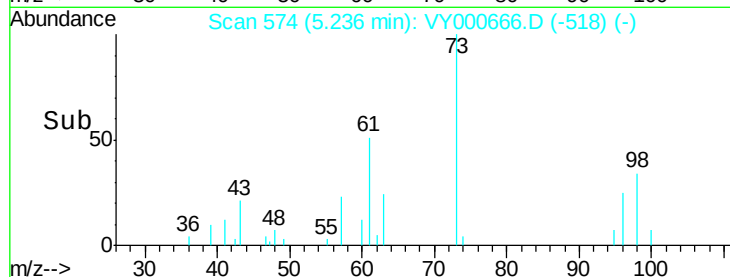
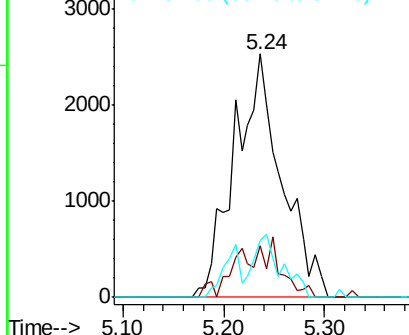
Tot Ion	Ratio	Lower	Upper
73	100		
43	9.0	15.4	23.0#
57	7.3	17.5	26.3#

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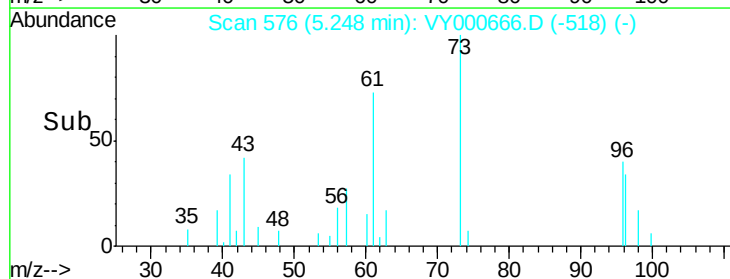
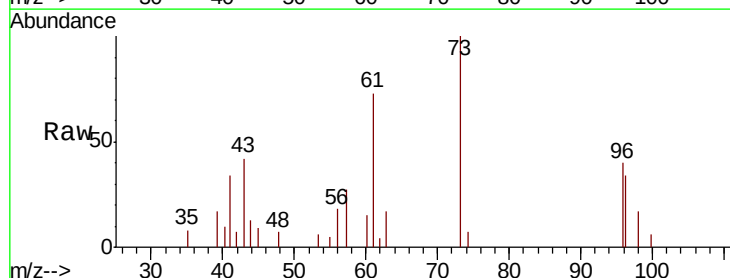
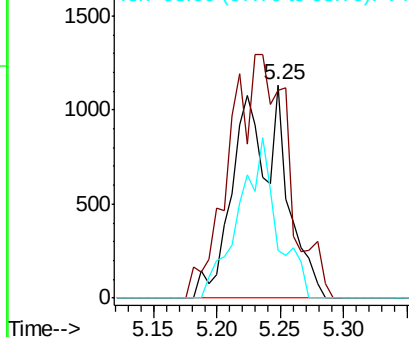
Abundance Ion 73.00 (72.70 to 73.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 57.00 (56.70 to 57.70): VY0

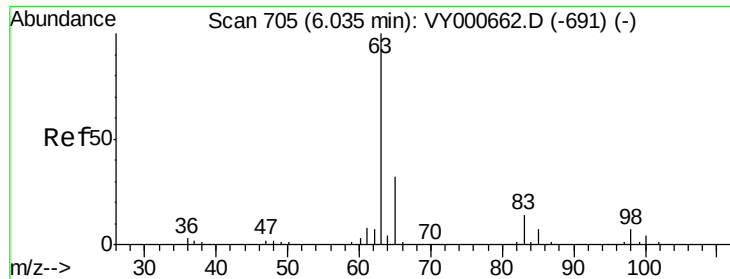


#18
trans-1,2-Dichloroethene
Concen: 0.597 ug/L m
RT: 5.25 min Scan# 576
Delta R.T. 0.02 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	180.8	91.8	170.4#
98	41.4	46.3	85.9#

Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 98.00 (97.70 to 98.70): VY0





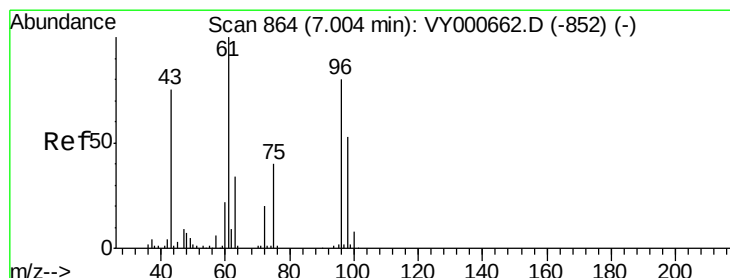
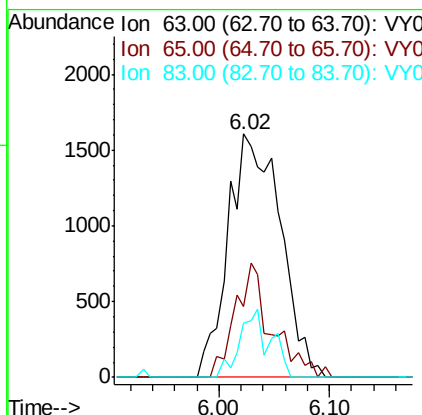
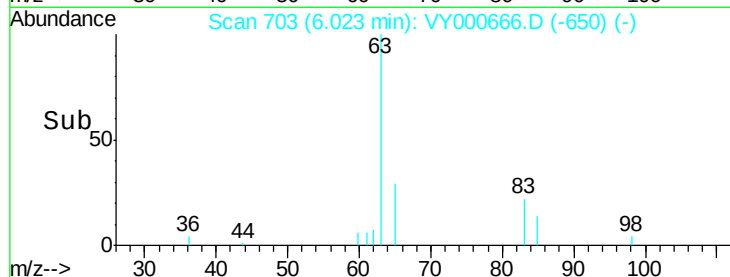
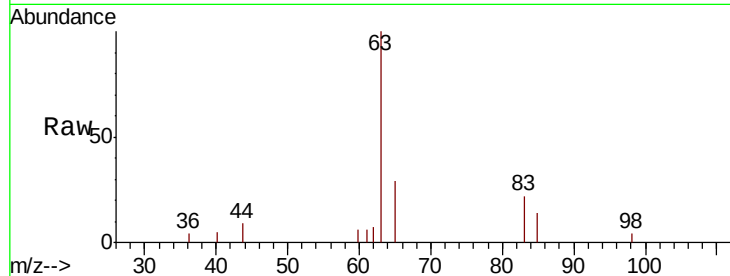
#19
 1,1-Dichloroethane
 Concen: 0.606 ug/L m
 RT: 6.02 min Scan# 703
 Delta R.T. -0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.2	23.9	44.5
83	22.3	10.1	18.9

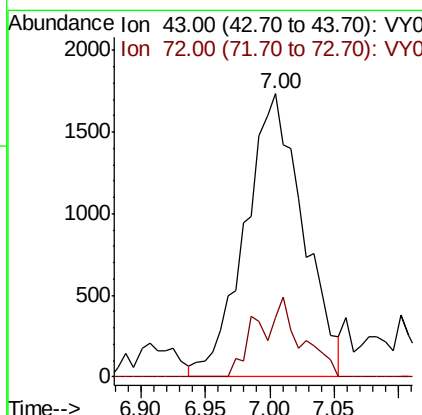
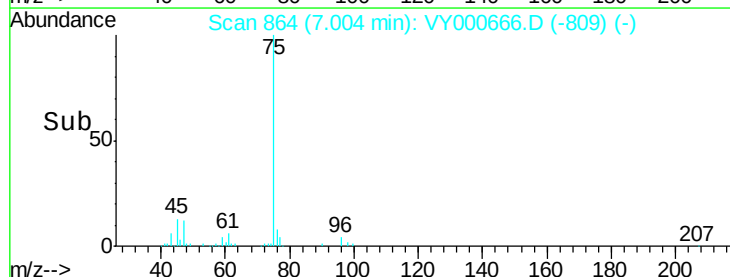
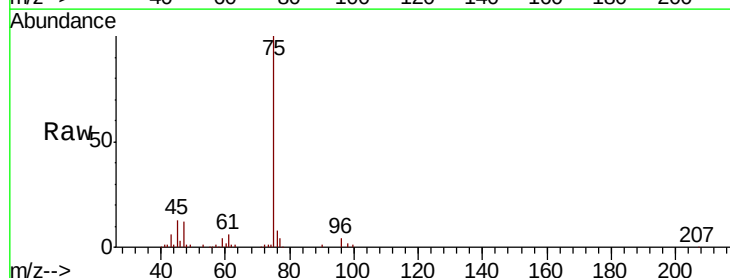
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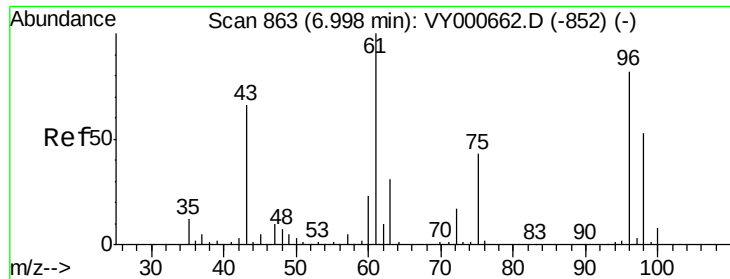
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#21
 2-Butanone
 Concen: 2.108 ug/L
 RT: 7.00 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	5.1	12.6	37.8





#22

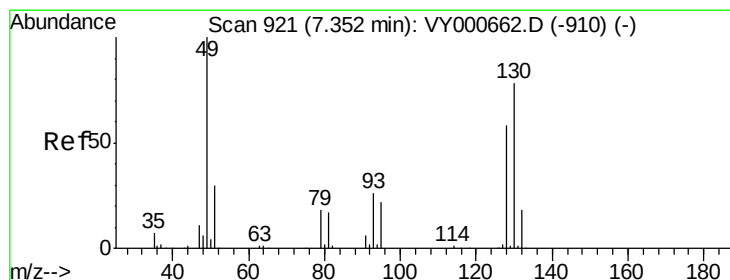
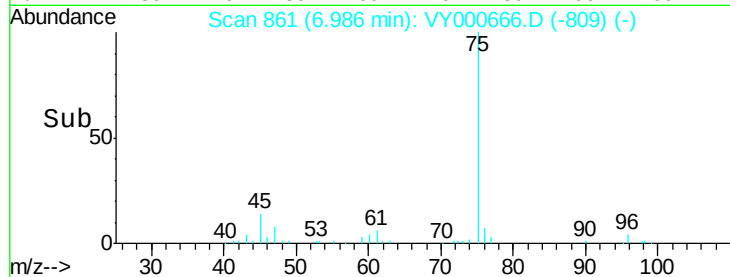
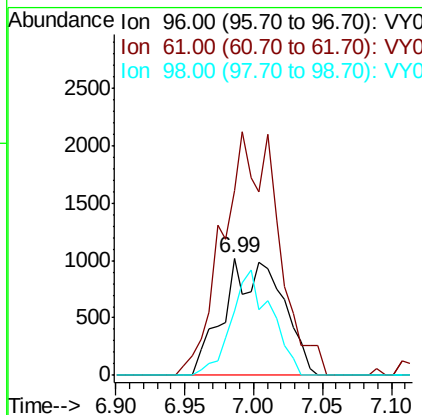
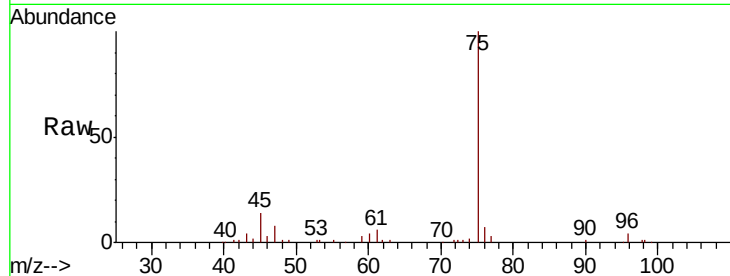
cis-1,2-Dichloroethene
Concen: 0.539 ug/L m
RT: 6.99 min Scan# 861
Delta R.T. -0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	157.6	86.8	161.2
98	33.9	44.6	82.8#

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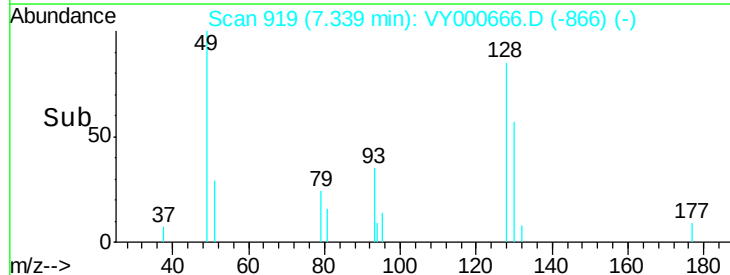
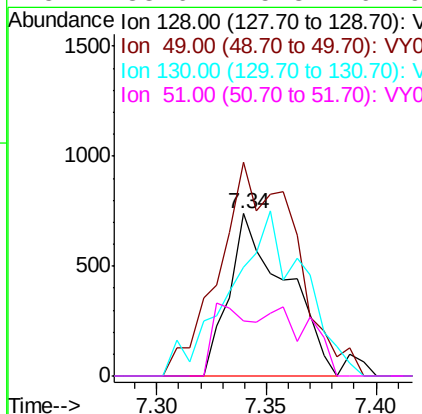
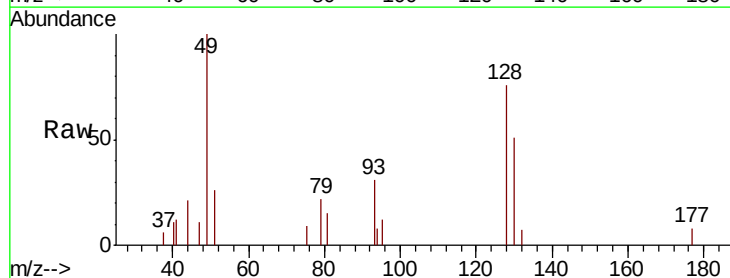
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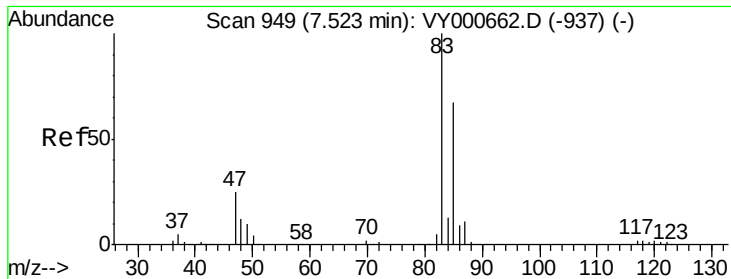


#23

Bromochloromethane
Concen: 0.552 ug/L m
RT: 7.34 min Scan# 919
Delta R.T. -0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
128	100		
49	131.5	131.5	244.3#
130	67.1	96.7	179.5#
51	33.6	45.3	67.9#





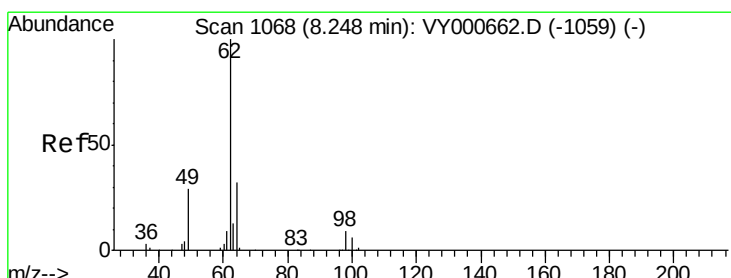
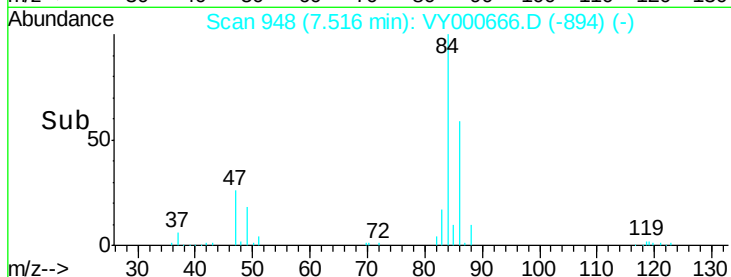
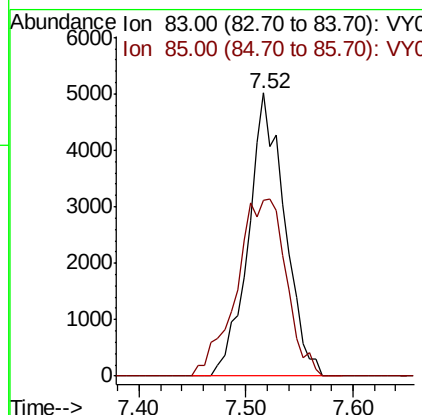
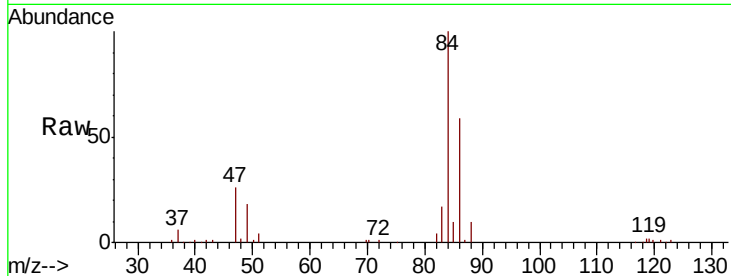
#25
Chloroform
Concen: 1.263 ug/L m
RT: 7.52 min Scan# 948
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion	83	85	Resp	Lower	Upper
11850	100	1.1		45.6	84.6#

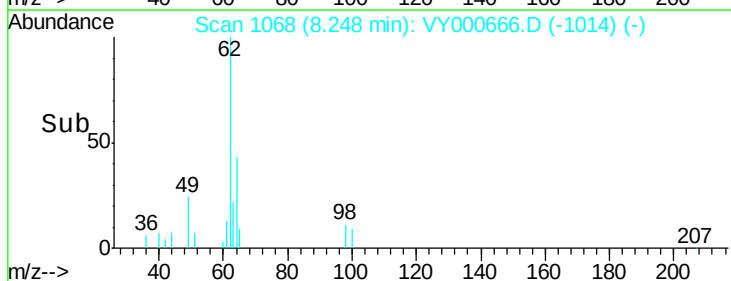
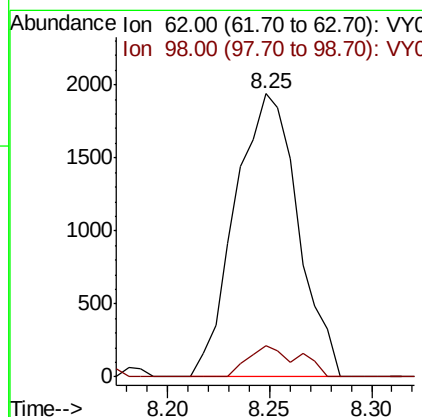
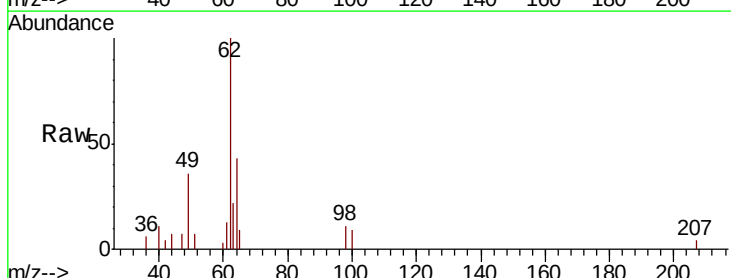
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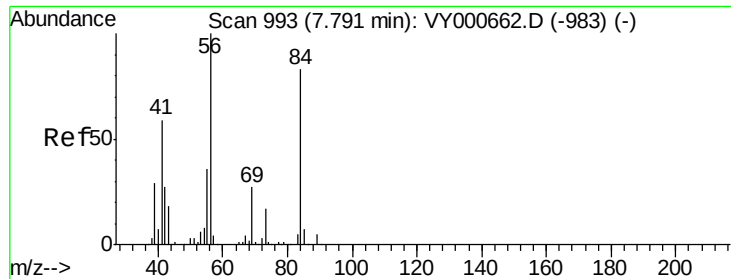
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#27
1,2-Dichloroethane
Concen: 0.663 ug/L
RT: 8.25 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	62	98	Resp	Lower	Upper
4157	100	11.2		7.5	11.3





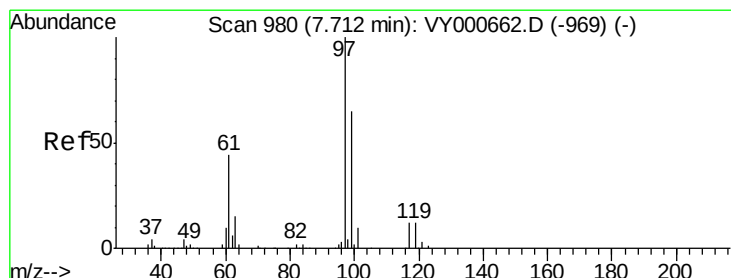
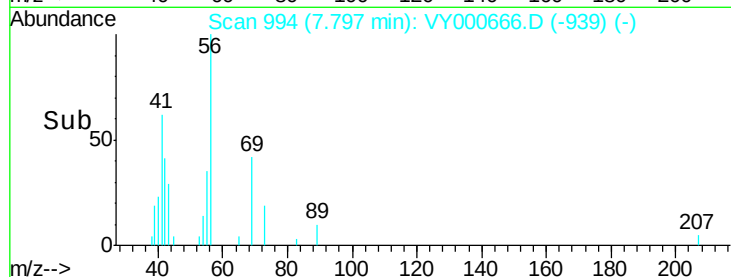
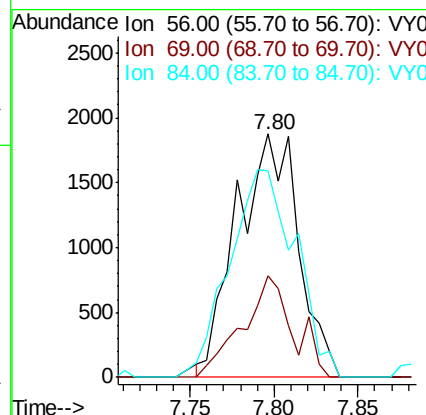
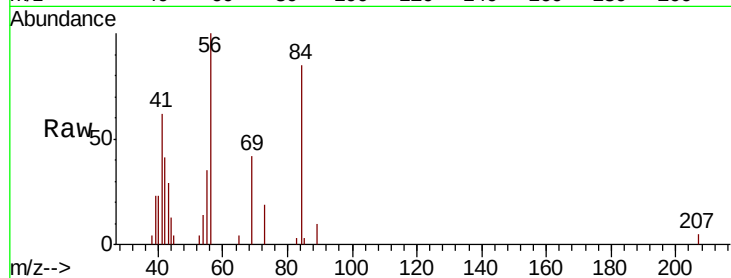
#30
Cyclohexane
Concen: 0.564 ug/L m
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.1	36.1
84	91.3	70.2	105.4

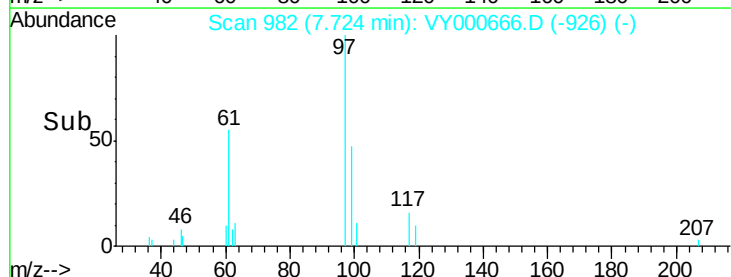
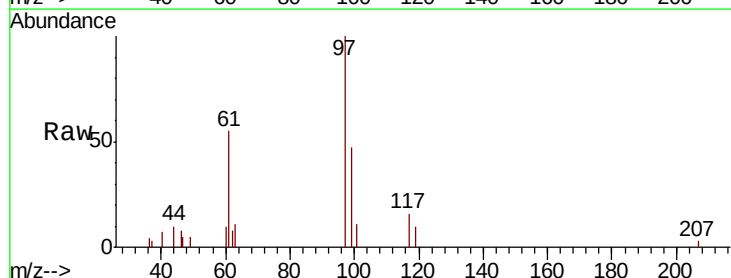
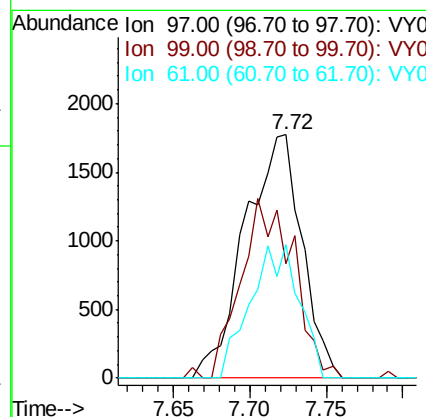
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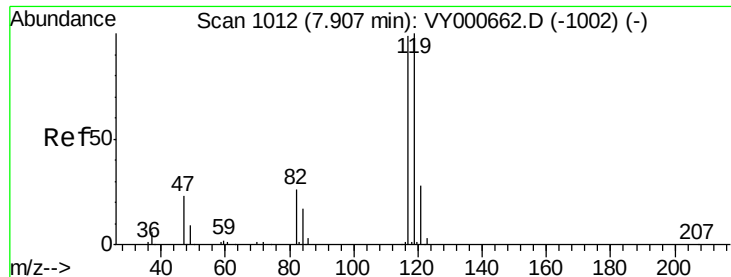
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#31
1,1,1-Trichloroethane
Concen: 0.602 ug/L
RT: 7.72 min Scan# 982
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.7	51.4	77.0
61	46.7	34.7	52.1





#32

Carbon tetrachloride

Concen: 0.609 ug/L m

RT: 7.91 min Scan# 1013

Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampled :

MDL03

Tot Ion:117 Resp: 4063

Ion Ratio Lower Upper

117 100

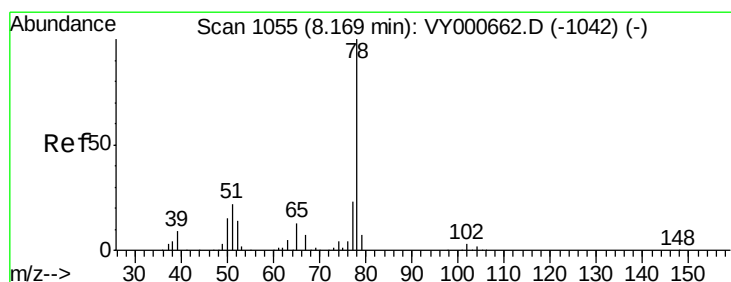
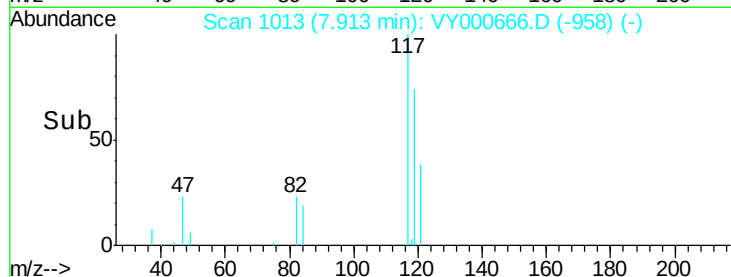
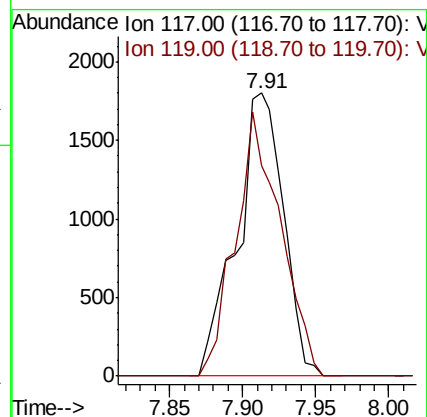
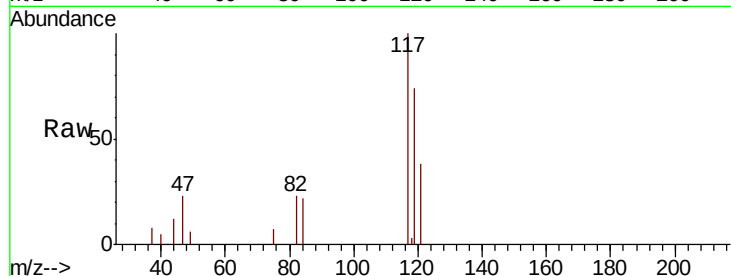
119 89.8 76.2 114.2

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#34

Benzene

Concen: 0.583 ug/L

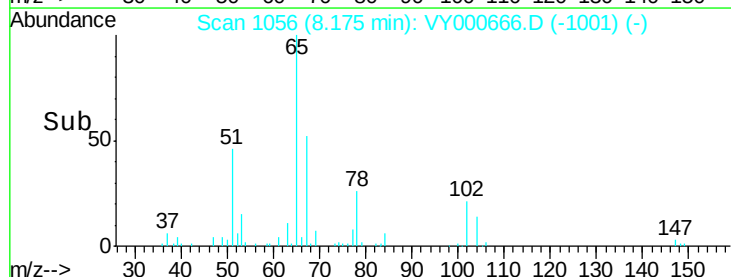
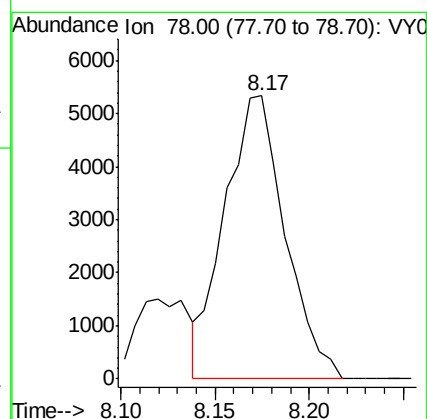
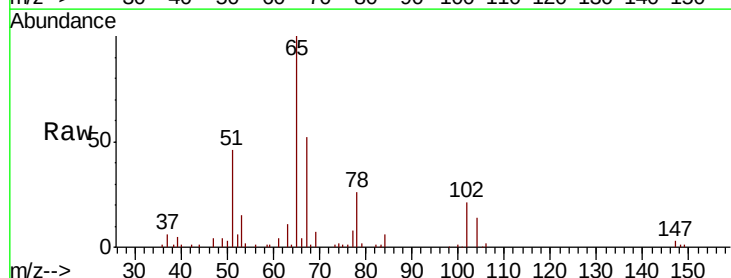
RT: 8.17 min Scan# 1056

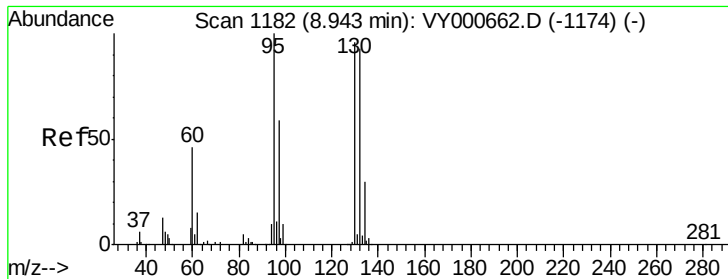
Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Tgt Ion: 78 Resp: 11847





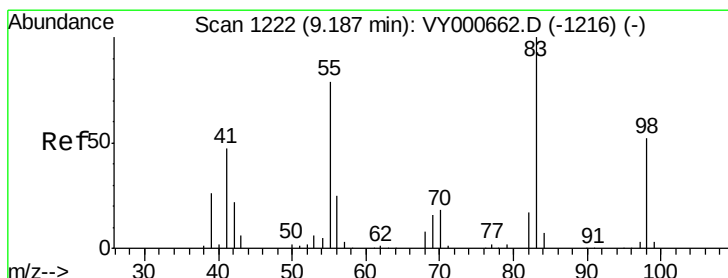
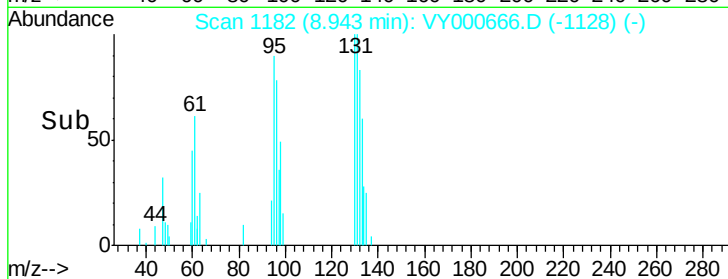
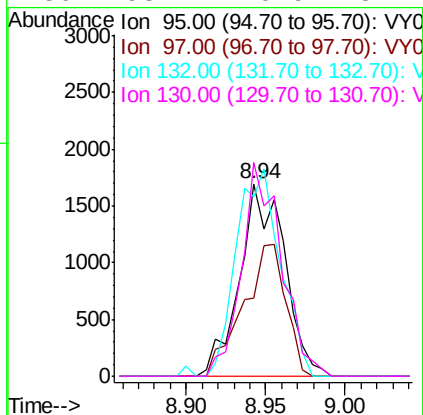
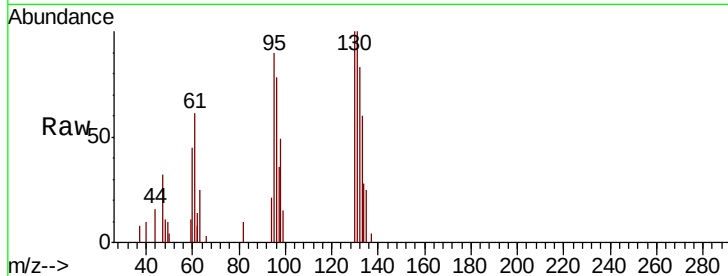
#35
 Trichloroethene
 Concen: 0.626 ug/L m
 RT: 8.94 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL03

Tot Ion:	95	Resp:	3337
Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.4	82.4
132	105.8	66.8	124.0
130	98.2	70.9	131.7

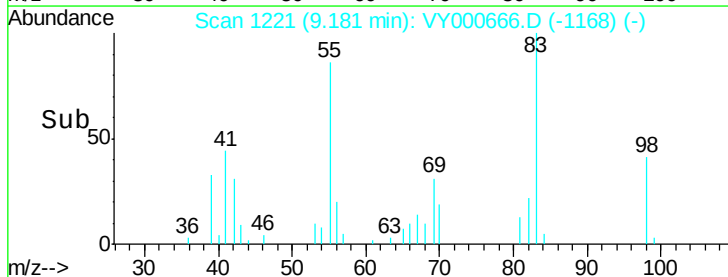
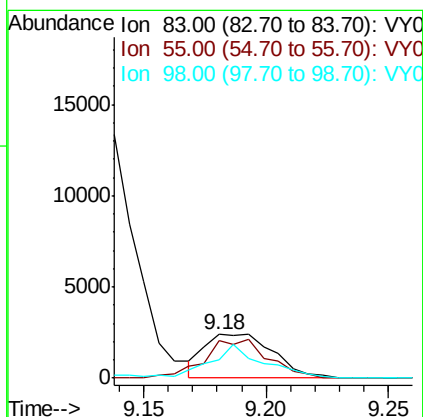
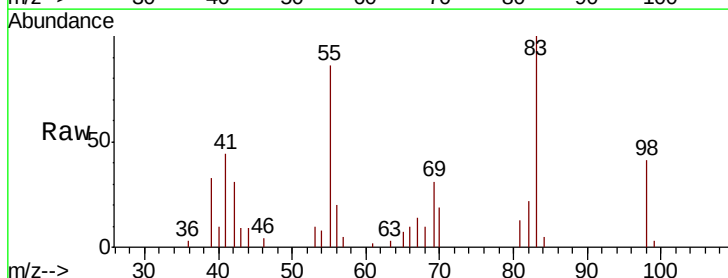
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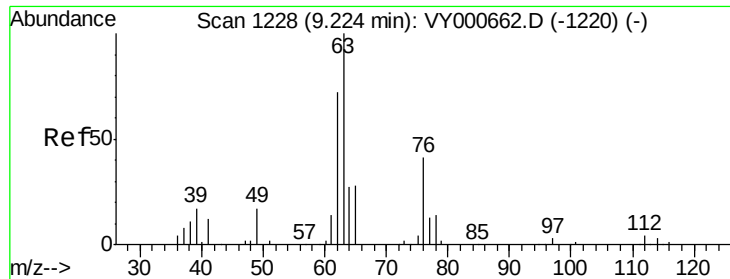
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#36
 Methylcyclohexane
 Concen: 0.512 ug/L
 RT: 9.18 min Scan# 1221
 Delta R.T. -0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Tgt Ion:	83	Resp:	4669
Ion	Ratio	Lower	Upper
83	100		
55	81.1	60.0	90.0
98	57.0	40.2	60.2





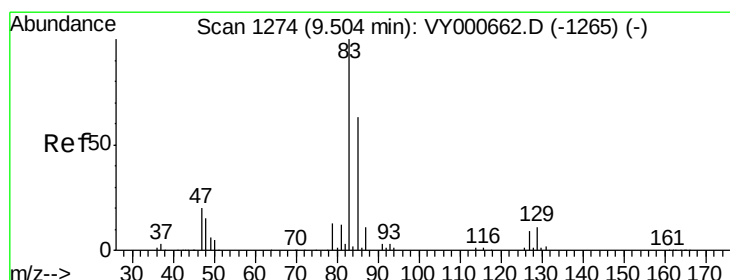
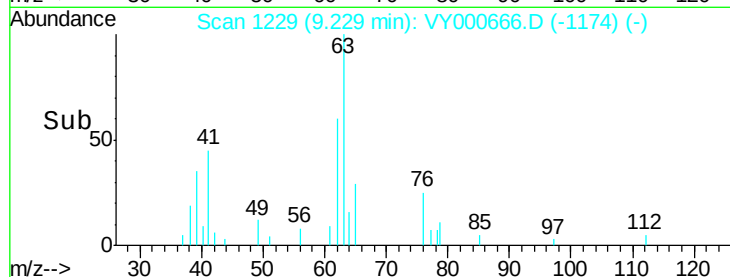
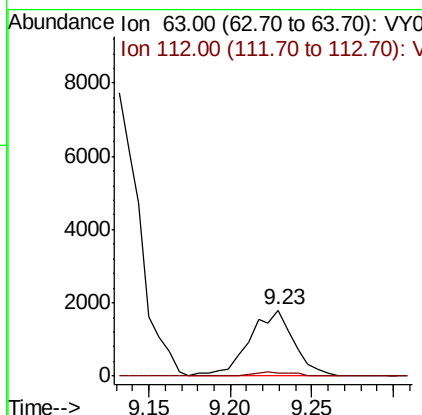
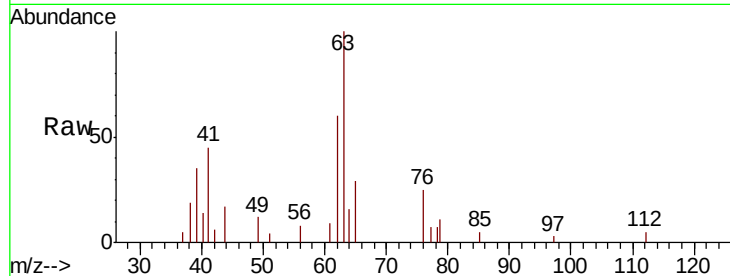
#40
 1,2-Dichloropropane
 Concen: 0.663 ug/L
 RT: 9.23 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Instrument :
 MSVOA_Y
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
112	3.7	3.2	4.8

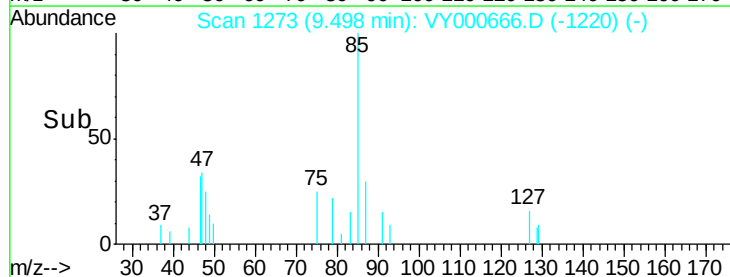
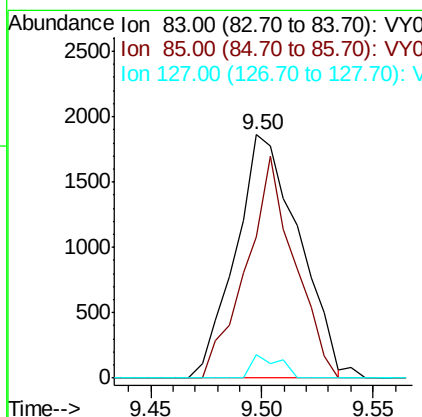
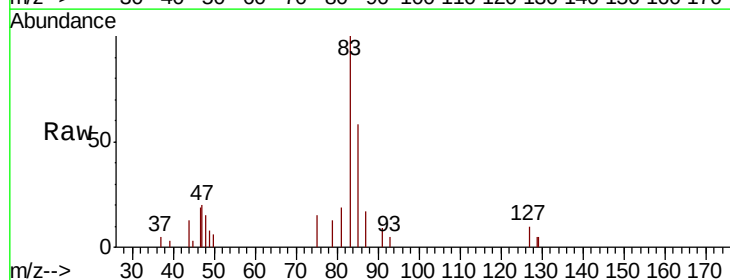
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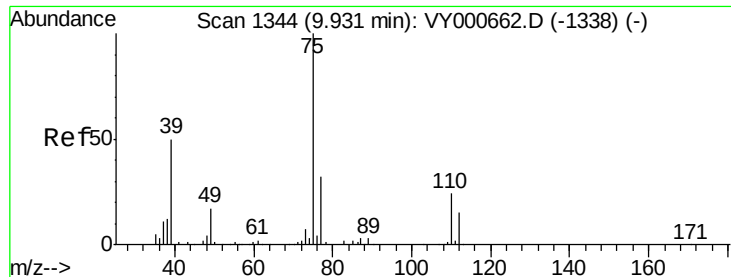
MMDADODA
 11/19/2019 11:59:03 AM



#41
 Bromodichloromethane
 Concen: 0.555 ug/L
 RT: 9.50 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.1	46.1	85.5
127	9.6	6.5	9.7





#42

cis-1,3-Dichloropropene

Concen: 0.552 ug/L

RT: 9.93 min Scan# 1344

Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampled :

MDL03

Tot Ion: 75 Resp: 4582

Ion Ratio Lower Upper

75 100

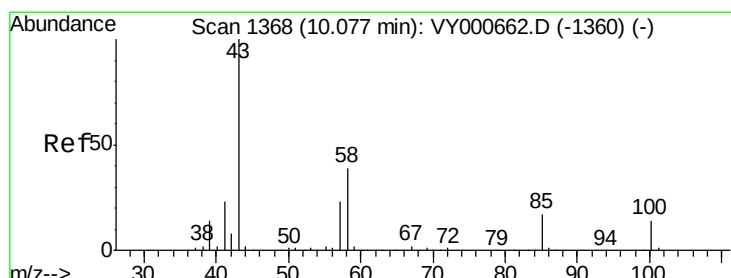
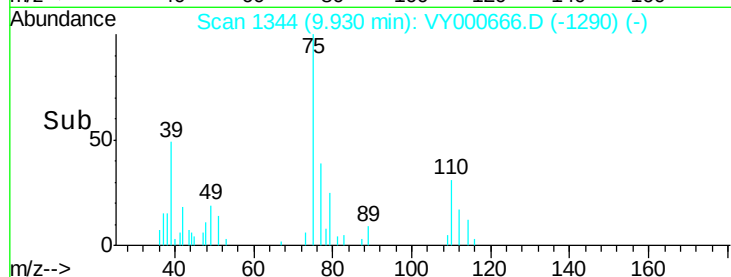
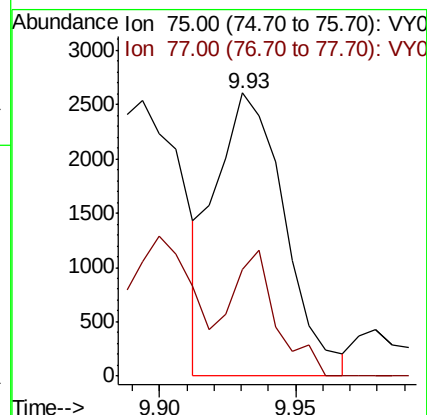
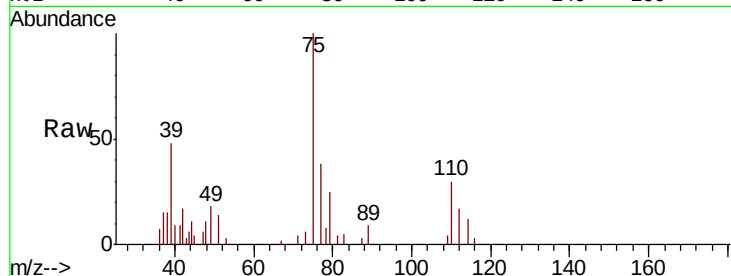
77 37.7 21.7 40.3

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#43

4-Methyl-2-pentanone

Concen: 1.400 ug/L

RT: 10.08 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

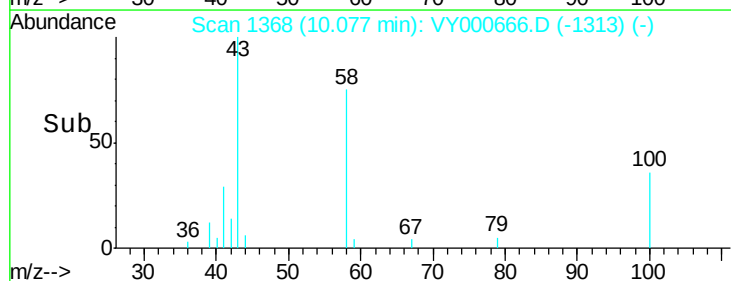
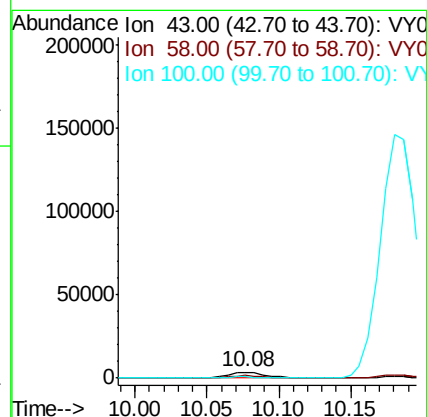
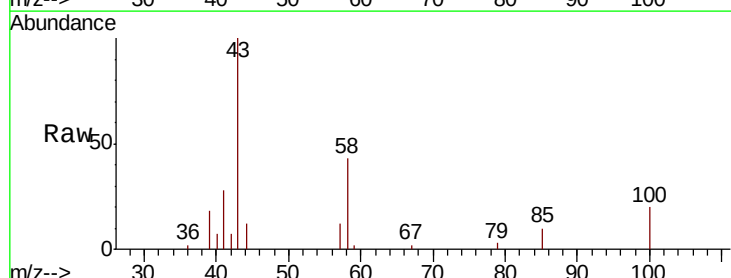
Tgt Ion: 43 Resp: 6896

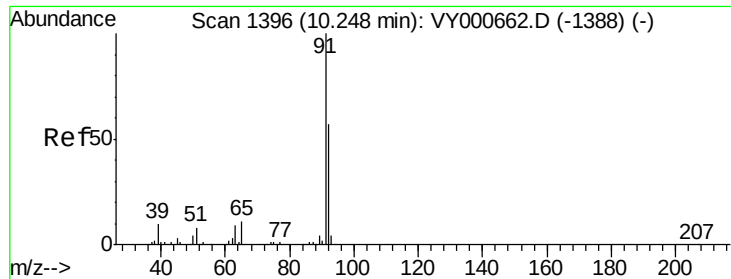
Ion Ratio Lower Upper

43 100

58 36.5 30.6 45.8

100 15.6 12.0 18.0





#44

Toluene

Concen: 0.606 ug/L

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

ClientSampled :

MDL03

Tot Ion: 91 Resp: 13324

Ion Ratio Lower Upper

91 100

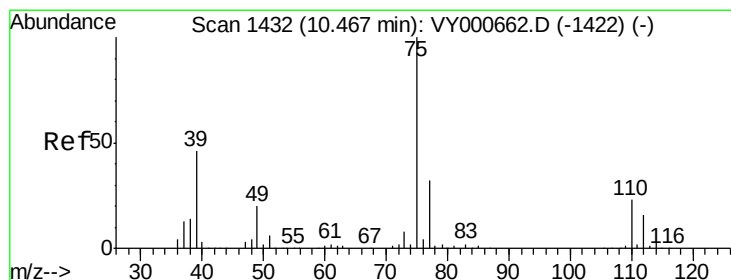
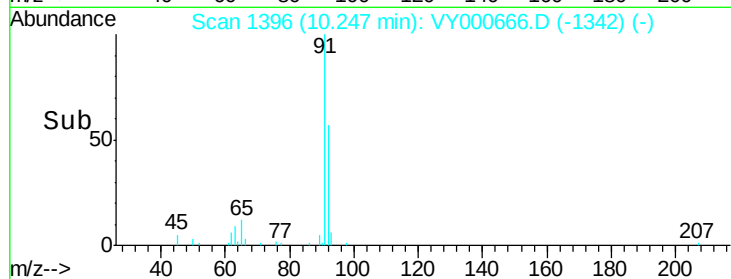
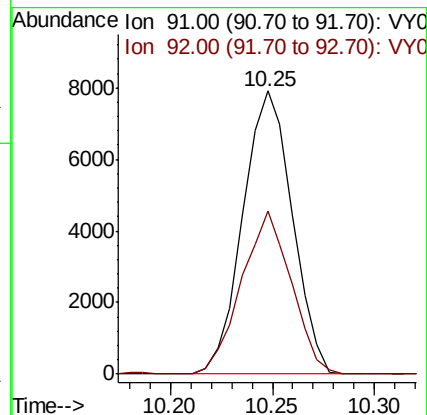
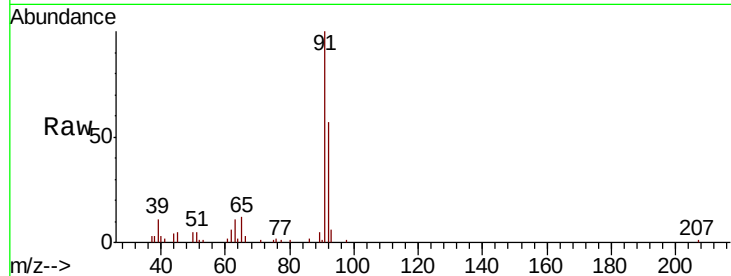
92 57.4 39.5 73.4

Manual Integrations

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#45

trans-1,3-Dichloropropene

Concen: 0.506 ug/L m

RT: 10.47 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VY000666.D

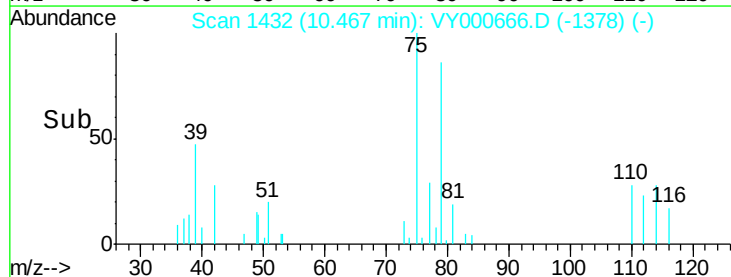
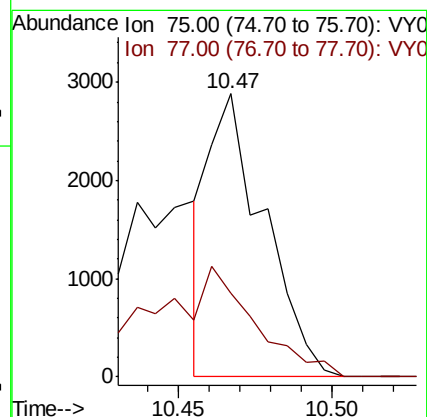
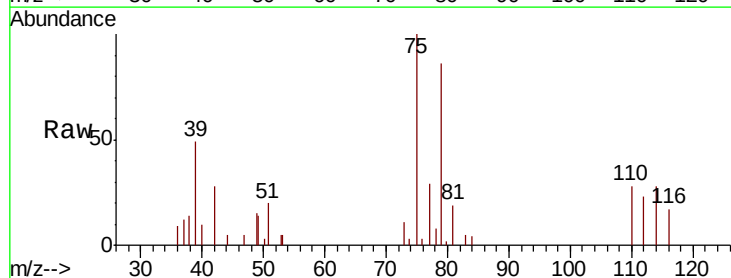
Acq: 13 Nov 2019 12:38

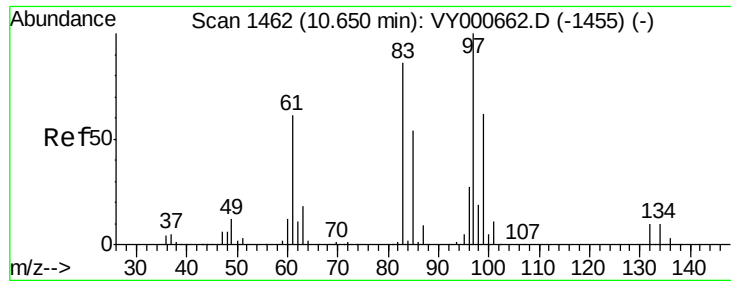
Tgt Ion: 75 Resp: 3608

Ion Ratio Lower Upper

75 100

77 29.4 20.4 37.8





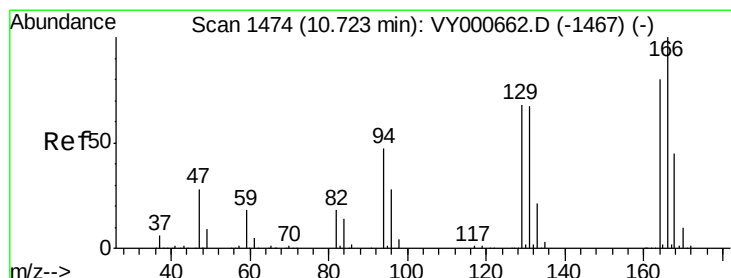
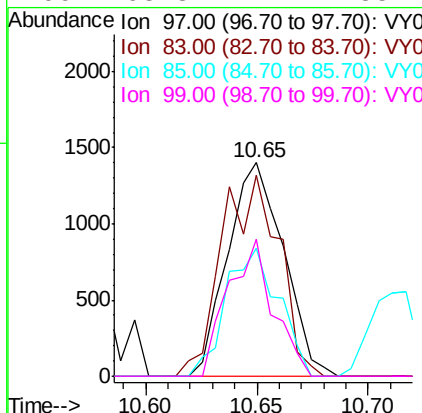
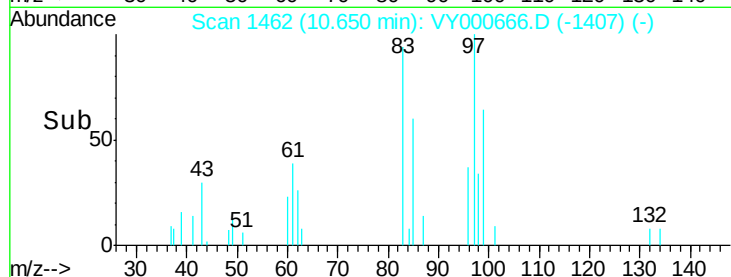
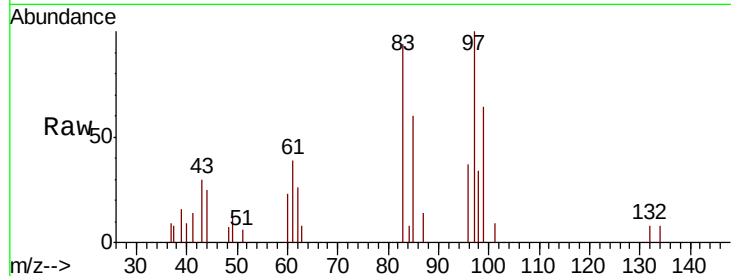
#46
1,1,2-Trichloroethane
Concen: 0.580 ug/L
RT: 10.65 min Scan# 1462
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion:	97	Resp:	2450
Ion	Ratio	Lower	Upper
97	100		
83	94.0	58.7	109.1
85	60.1	37.3	69.3
99	63.8	44.7	83.1

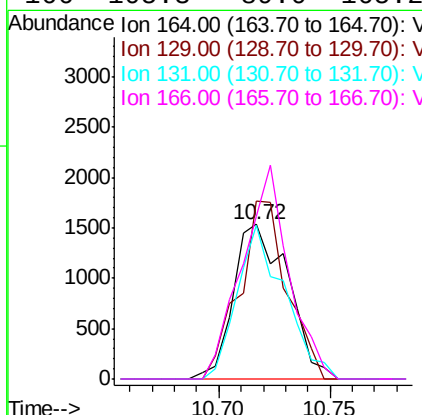
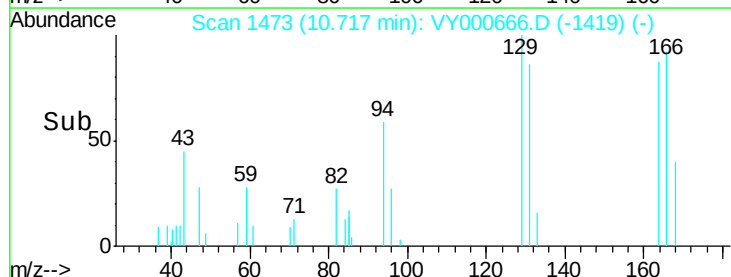
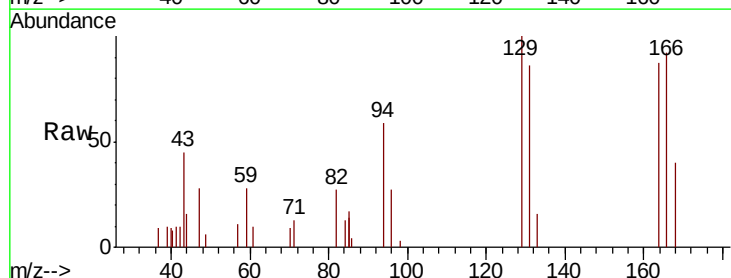
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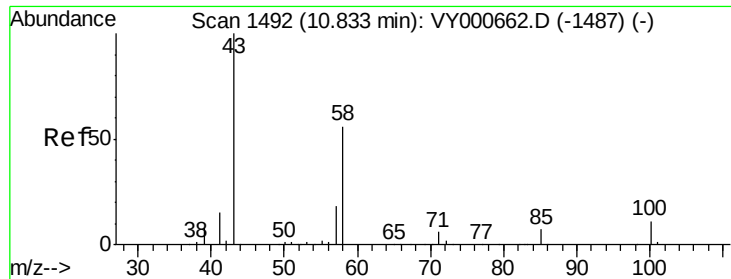
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#47
Tetrachloroethene
Concen: 0.657 ug/L
RT: 10.72 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion:	164	Resp:	2616
Ion	Ratio	Lower	Upper
164	100		
129	115.0	69.6	129.2
131	99.1	66.8	124.2
166	105.3	89.0	165.2





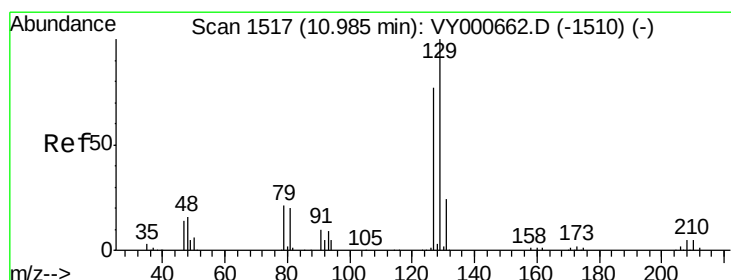
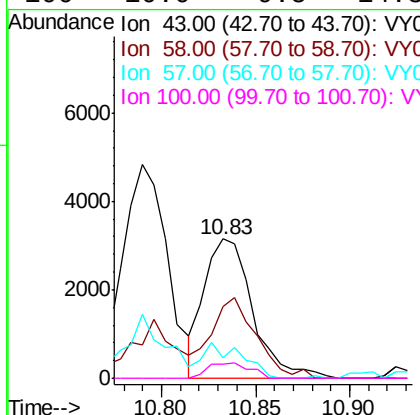
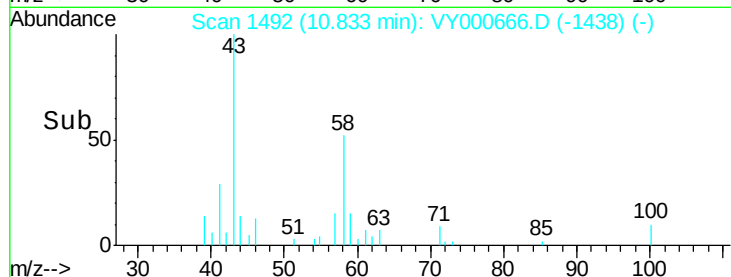
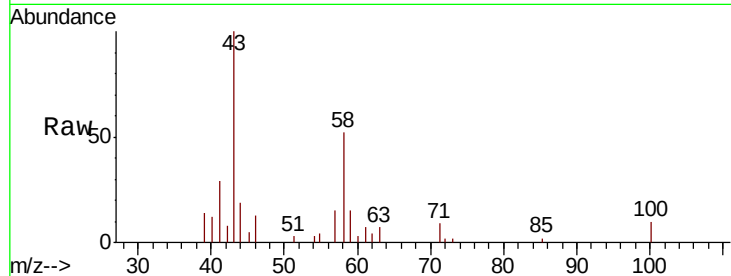
#49
2-Hexanone
Concen: 1.456 ug/L
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.6	44.1	66.1
57	5.7	13.9	20.9
100	10.0	9.5	14.3

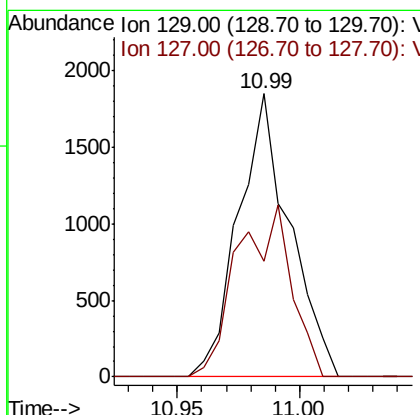
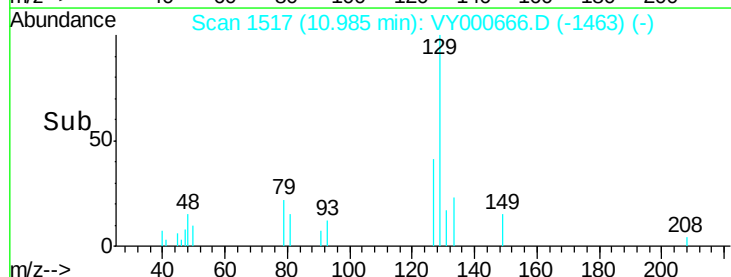
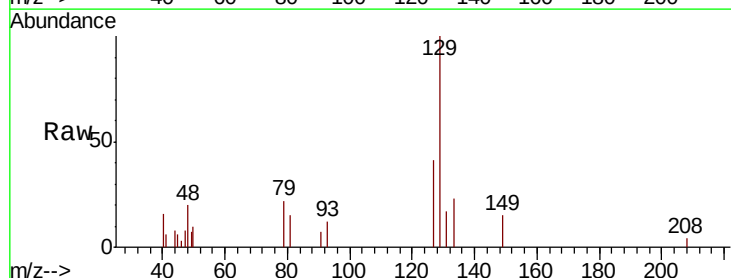
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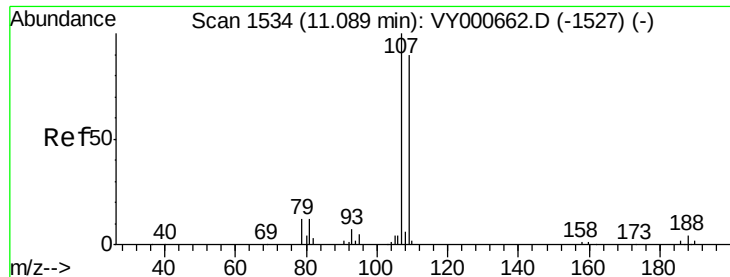
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#50
Dibromochloromethane
Concen: 0.566 ug/L
RT: 10.99 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
129	100		
127	40.9	57.9	107.5





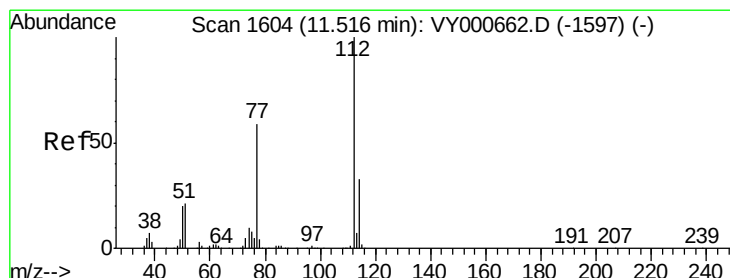
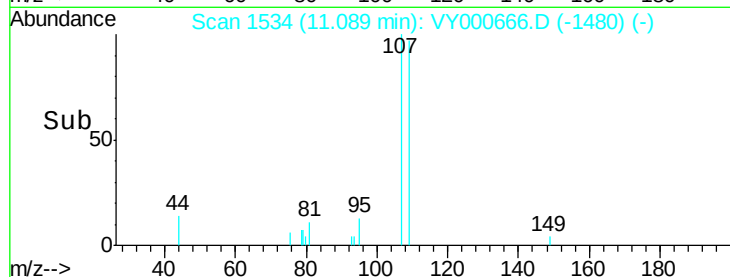
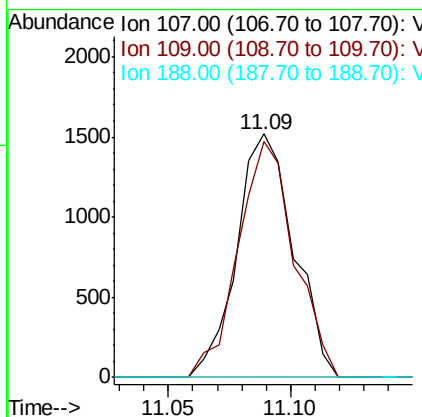
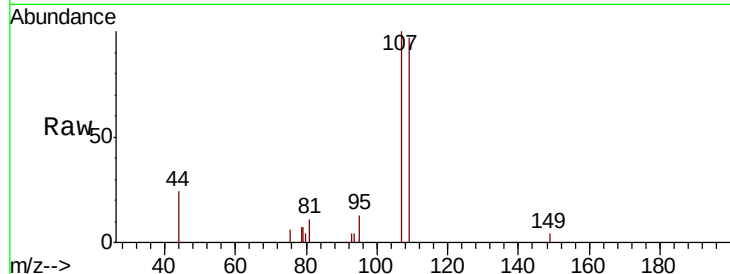
#51
1,2-Dibromoethane
Concen: 0.601 ug/L
RT: 11.09 min Scan# 1534
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.0	65.5	121.6
188	0.0	2.7	4.1#

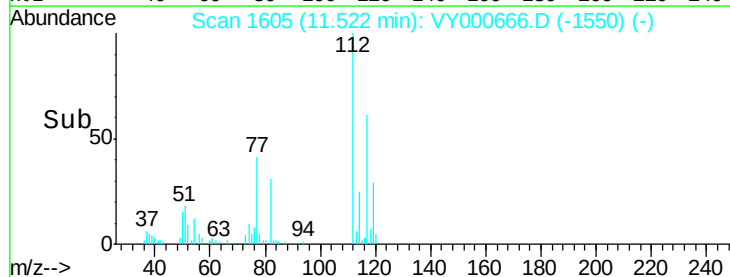
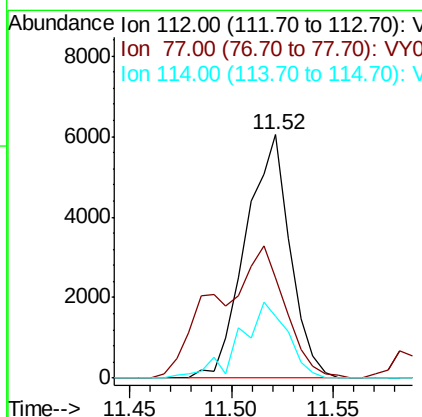
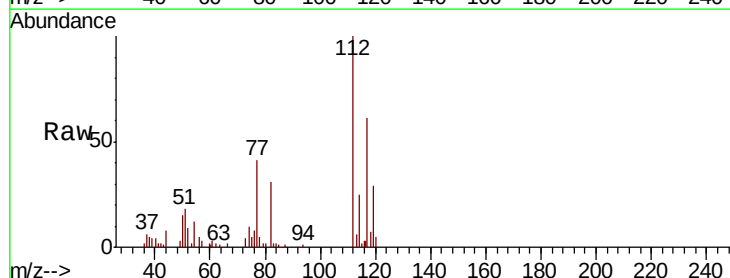
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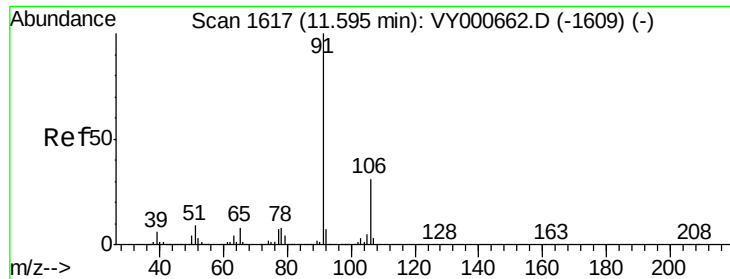
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#52
Chlorobenzene
Concen: 0.657 ug/L
RT: 11.52 min Scan# 1605
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
112	100		
77	41.0	47.4	71.0#
114	25.2	23.0	42.6





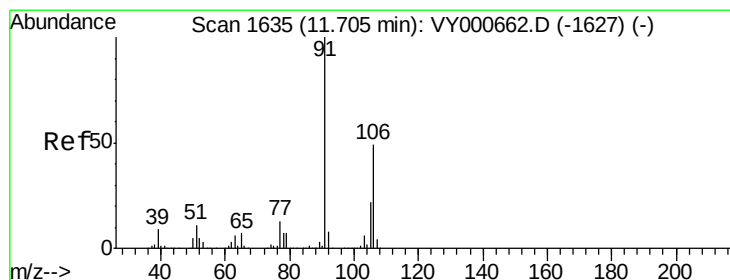
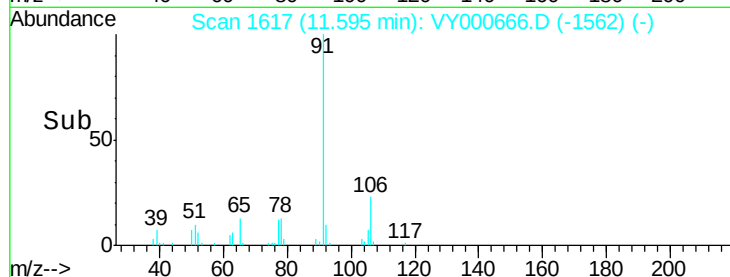
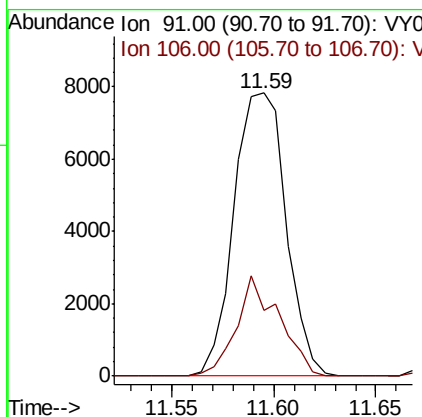
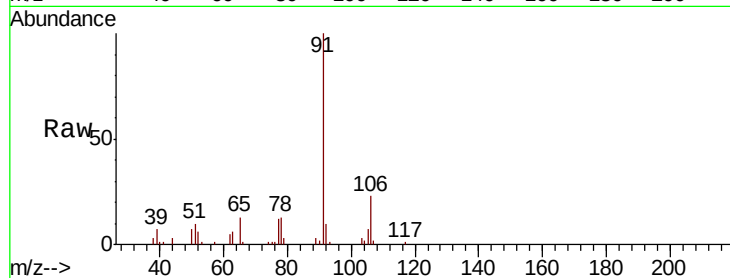
#53
Ethylbenzene
Concen: 0.557 ug/L
RT: 11.59 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion: 91 Resp: 13852
Ion Ratio Lower Upper
91 100
106 23.5 20.9 38.7

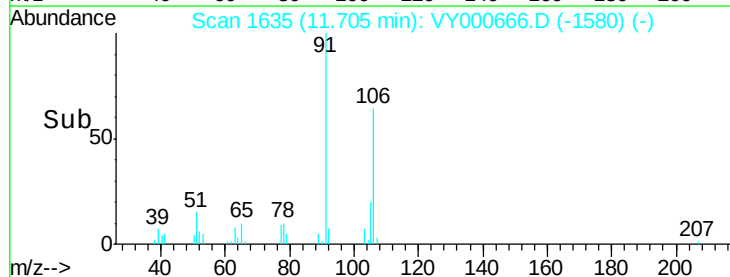
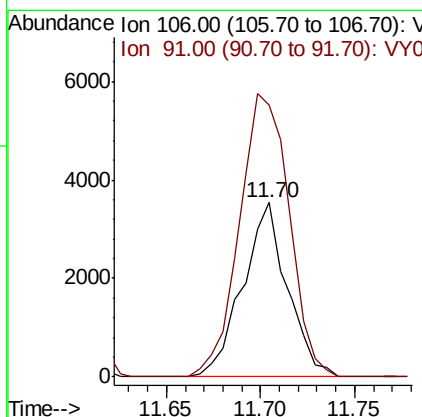
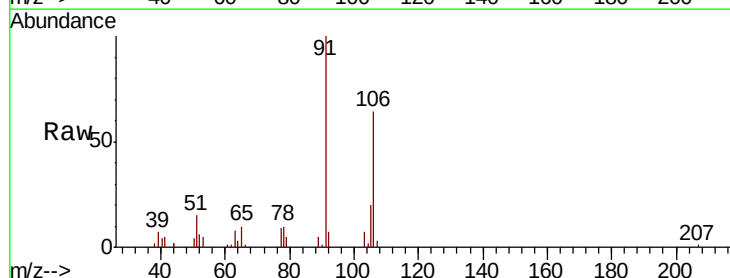
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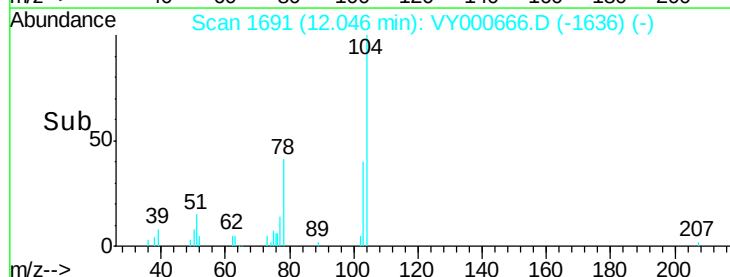
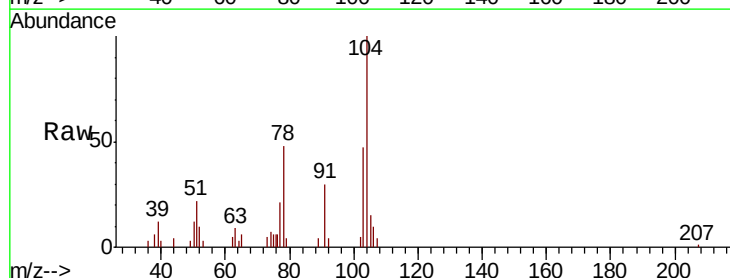
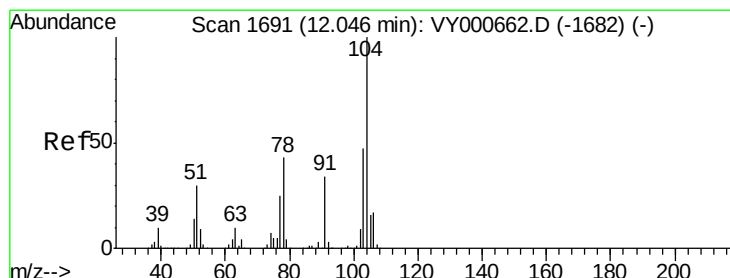
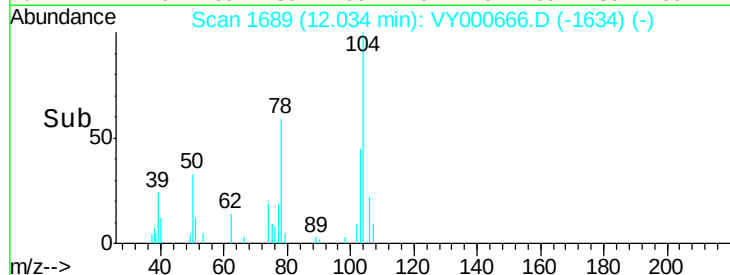
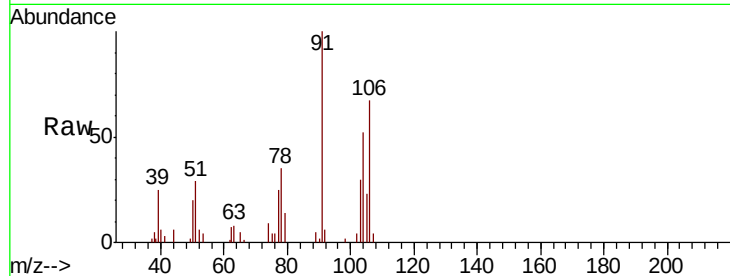
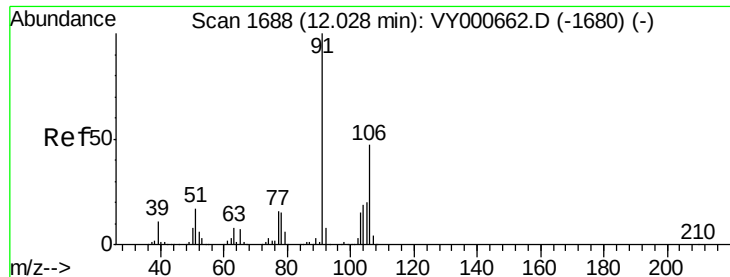
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#54
m,p-Xylene
Concen: 0.620 ug/L
RT: 11.70 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion: 106 Resp: 5833
Ion Ratio Lower Upper
106 100
91 156.3 137.4 255.2





#55

o-xylene

Concen: 0.549 ug/L

RT: 12.03 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Tot Ion:106 Resp: 5067

Ion Ratio Lower Upper

106 100

91 150.1 147.8 274.6

Instrument :

MSVOA_Y

ClientSampled :

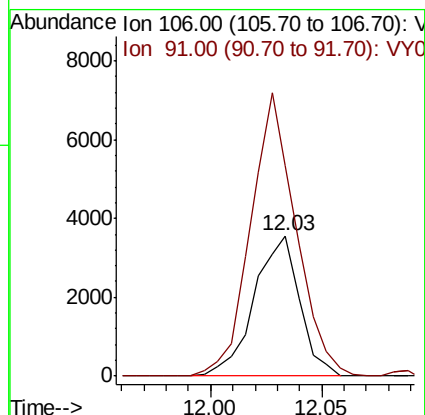
MDL03

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#56

Styrene

Concen: 0.491 ug/L

RT: 12.05 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VY000666.D

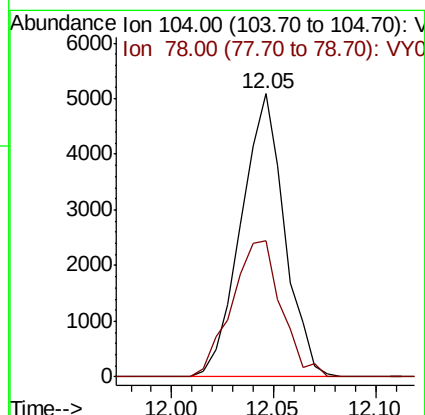
Acq: 13 Nov 2019 12:38

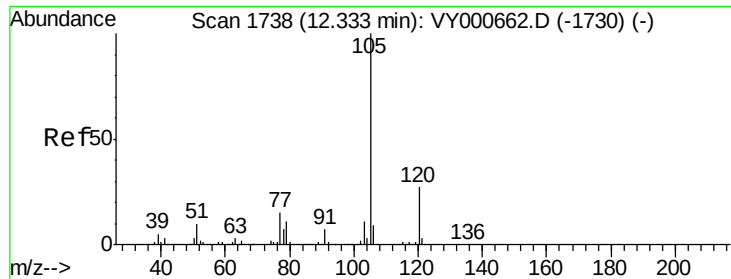
Tgt Ion:104 Resp: 7538

Ion Ratio Lower Upper

104 100

78 48.1 31.5 58.5





#57

Isopropylbenzene

Concen: 0.576 ug/L

RT: 12.33 min Scan# 1738

Delta R.T. 0.01 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Instrument :

MSVOA_Y

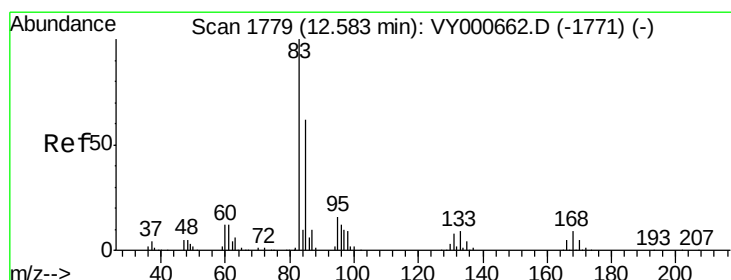
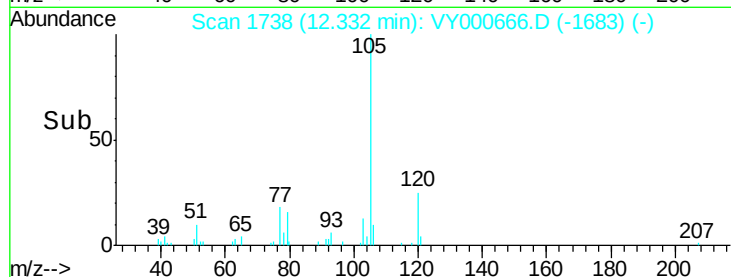
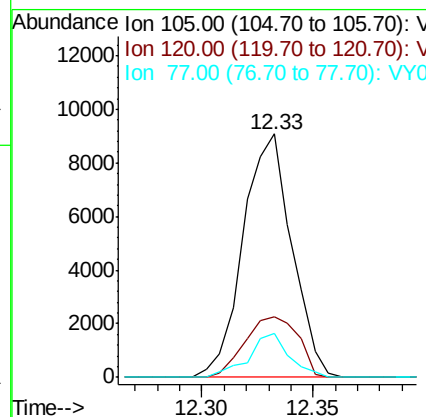
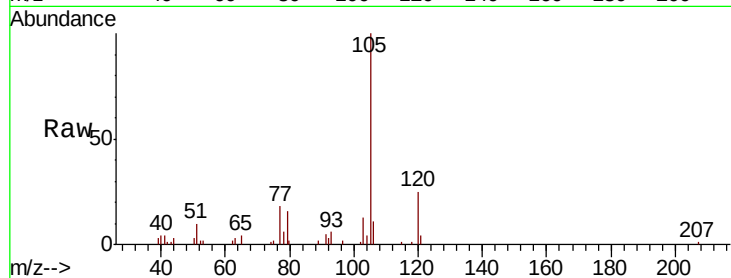
ClientSampleId :

MDL03

Tot Ion:	105	Resp:	13845
Ion Ratio	Lower	Upper	
105	100		
120	27.2	21.5	32.3
77	15.1	12.6	19.0

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#58

1,1,2,2-Tetrachloroethane

Concen: 0.634 ug/L

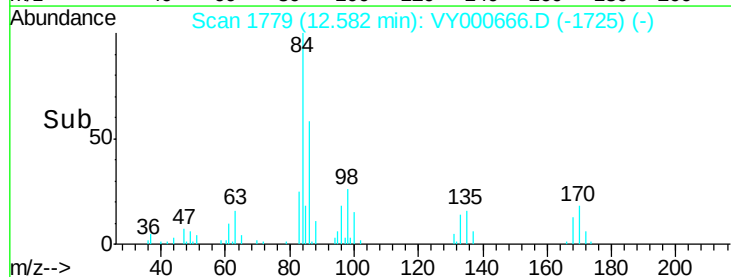
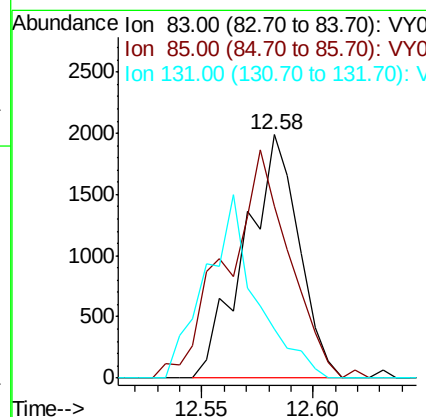
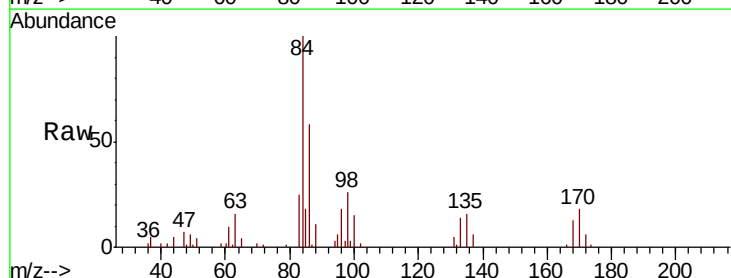
RT: 12.58 min Scan# 1779

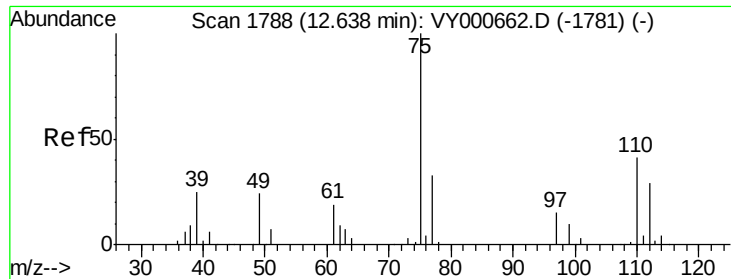
Delta R.T. 0.00 min

Lab File: VY000666.D

Acq: 13 Nov 2019 12:38

Tgt Ion:	83	Resp:	3345
Ion Ratio	Lower	Upper	
83	100		
85	70.6	45.0	83.6
131	19.9	7.8	11.6#





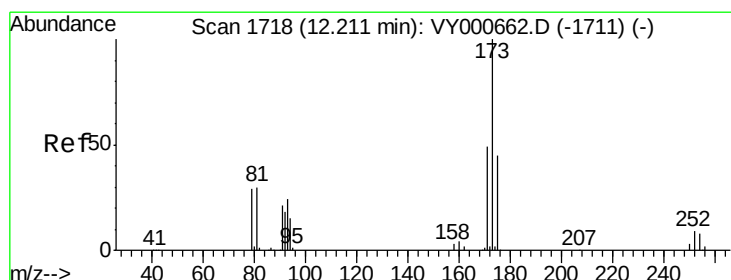
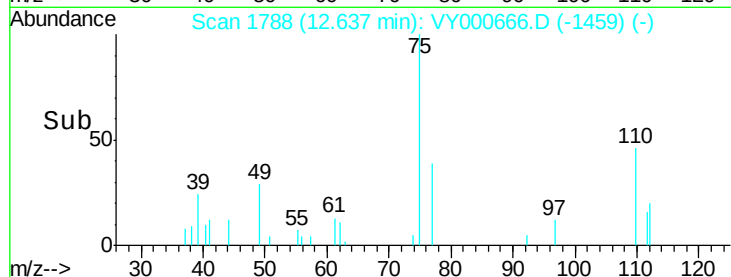
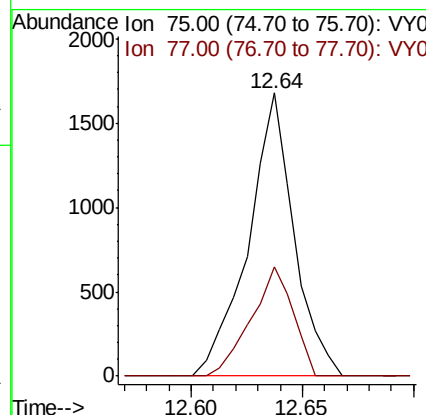
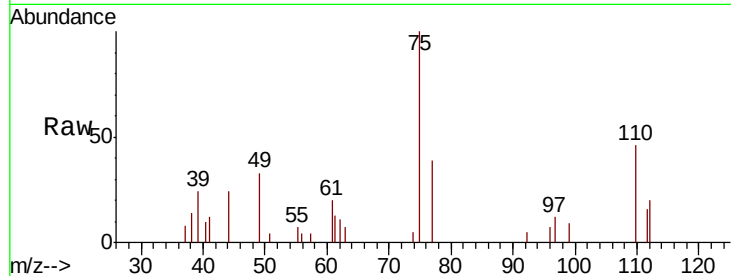
#59
 1,2,3-Trichloropropane
 Concen: 0.559 ug/L
 RT: 12.64 min Scan# 1788
 Delta R.T. 0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Instrument :
 MSVOA_Y
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 2398
 Ion Ratio Lower Upper
 75 100
 77 35.4 26.4 39.6

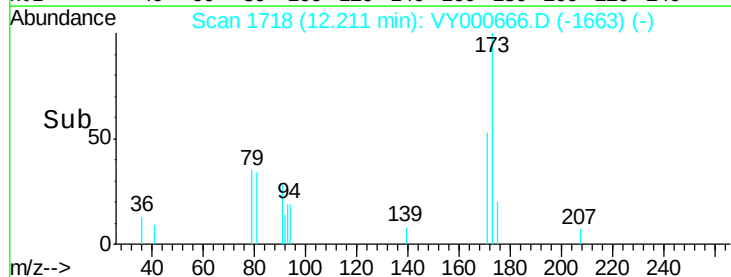
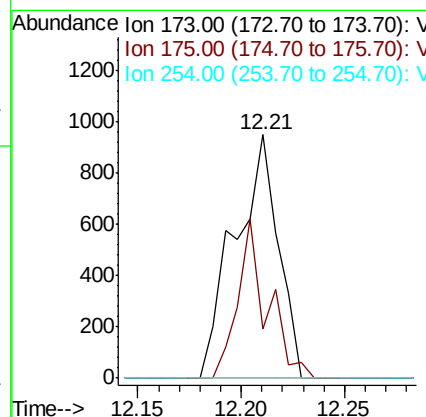
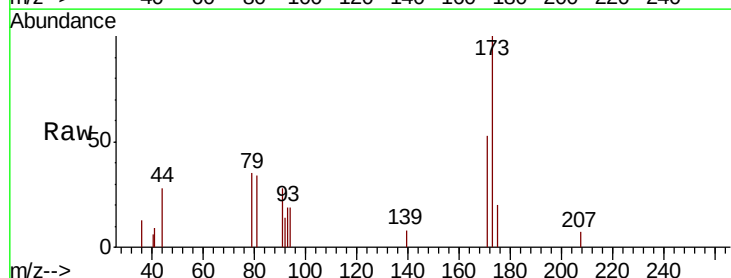
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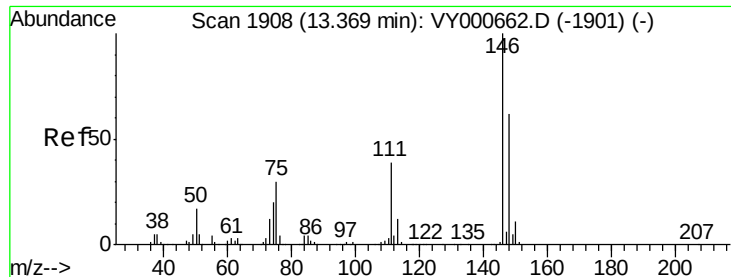
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#62
 Bromoform
 Concen: 0.506 ug/L m
 RT: 12.21 min Scan# 1718
 Delta R.T. 0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Tgt Ion: 173 Resp: 1385
 Ion Ratio Lower Upper
 173 100
 175 44.0 37.8 56.6
 254 0.0 7.7 11.5#





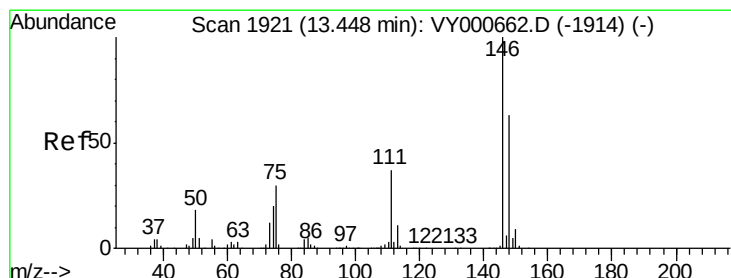
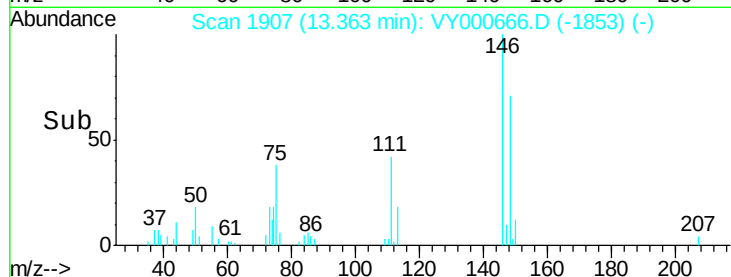
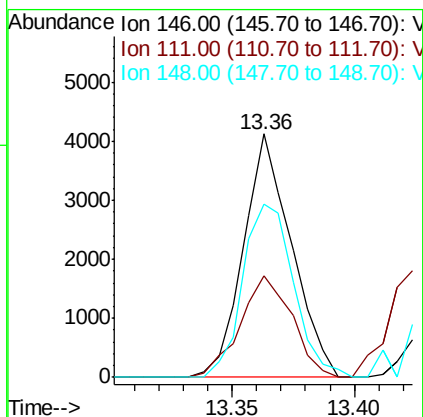
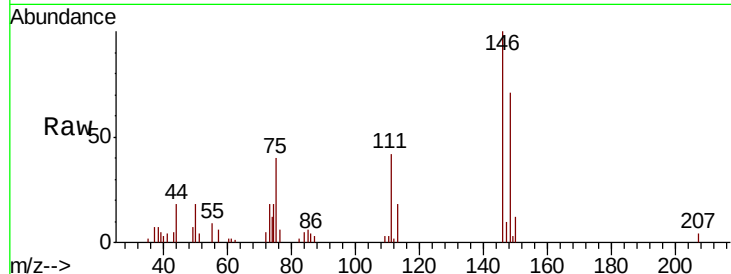
#63
1,3-Dichlorobenzene
Concen: 0.549 ug/L
RT: 13.36 min Scan# 1907
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	28.8	53.6
148	71.0	44.3	82.3

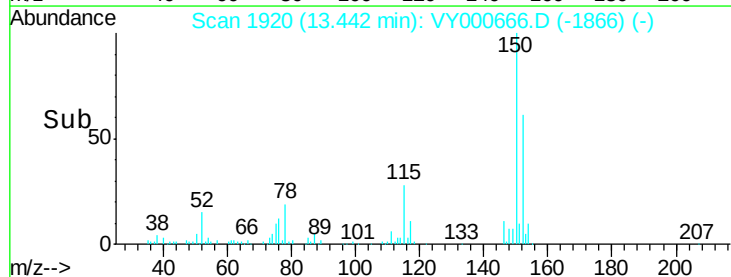
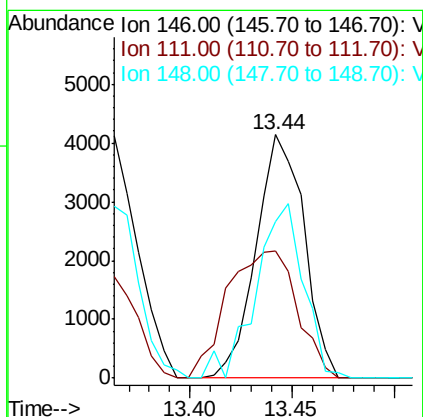
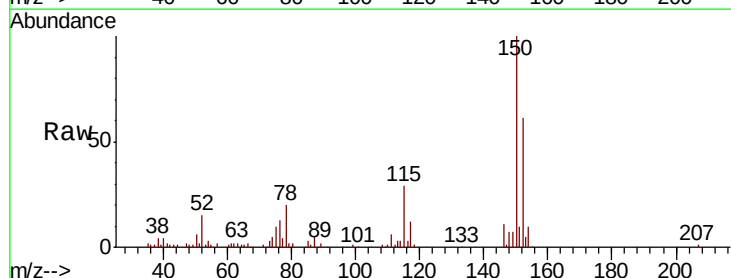
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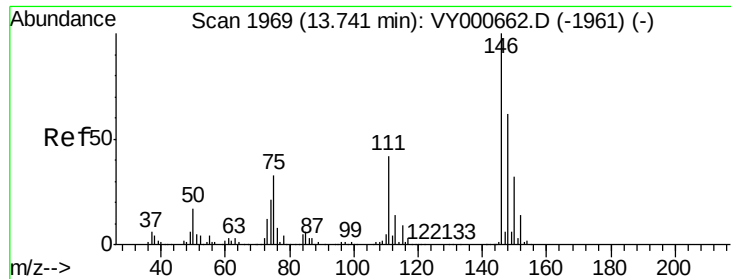
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#64
1,4-Dichlorobenzene
Concen: 0.659 ug/L
RT: 13.44 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.0	26.7	49.5#
148	64.3	45.2	84.0





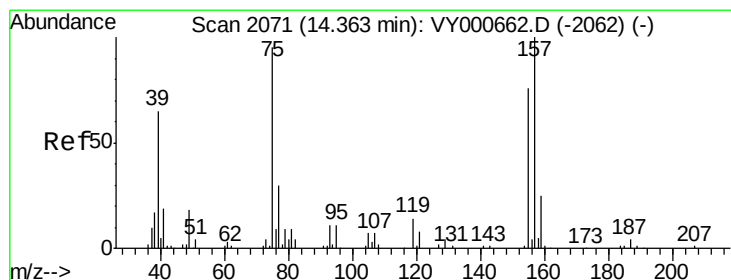
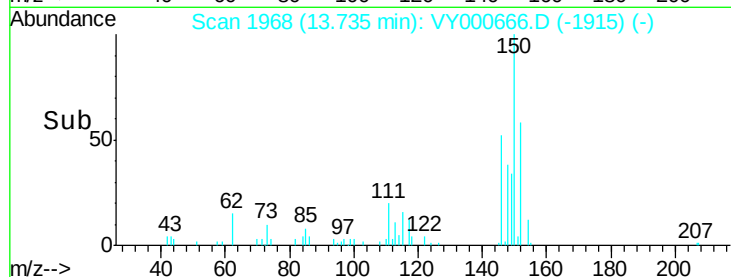
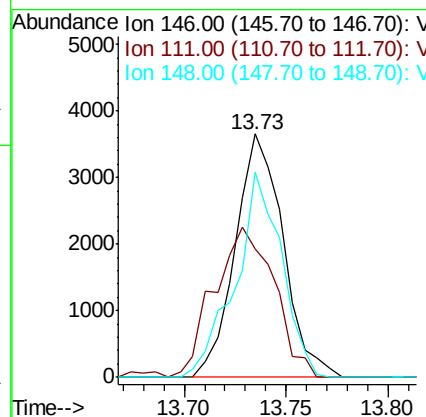
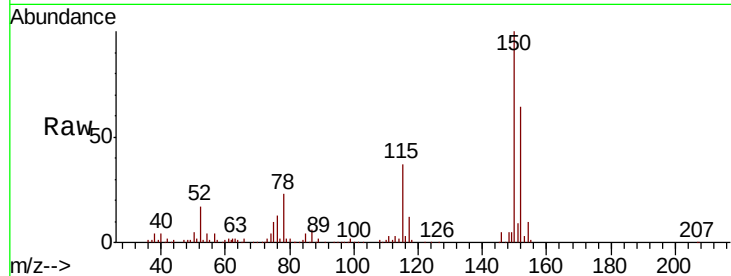
#65
 1,2-Dichlorobenzene
 Concen: 0.623 ug/L
 RT: 13.73 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.9	33.8	50.8#
148	84.0	51.0	76.6#

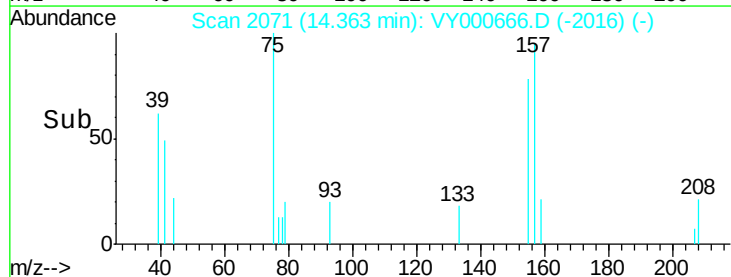
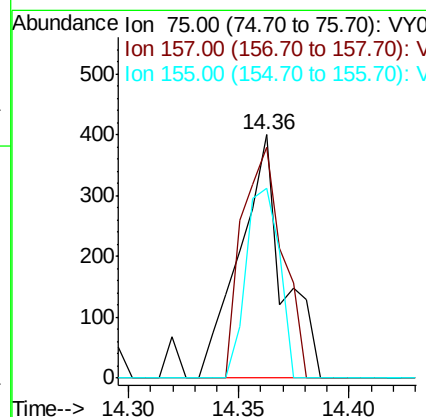
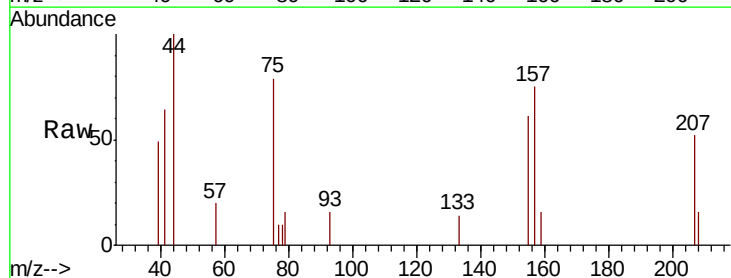
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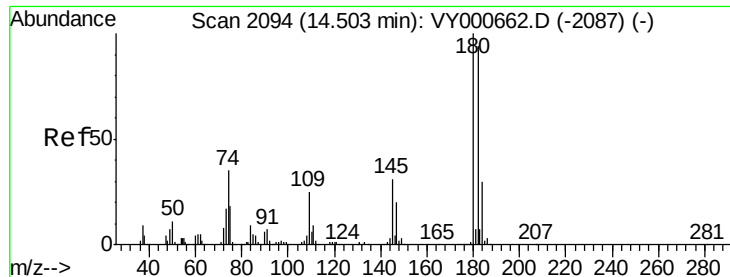
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.605 ug/L m
 RT: 14.36 min Scan# 2071
 Delta R.T. 0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
75	100		
157	94.8	78.1	117.1
155	77.8	64.2	96.4





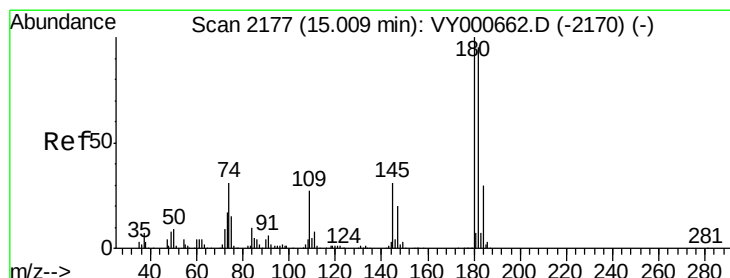
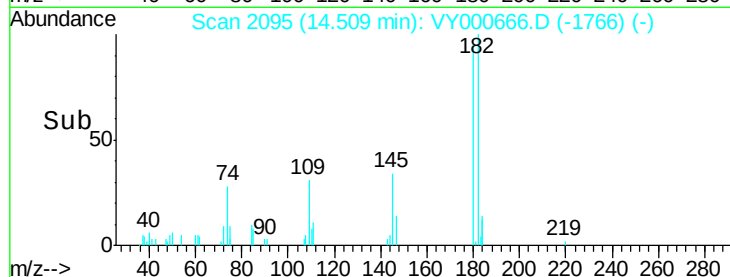
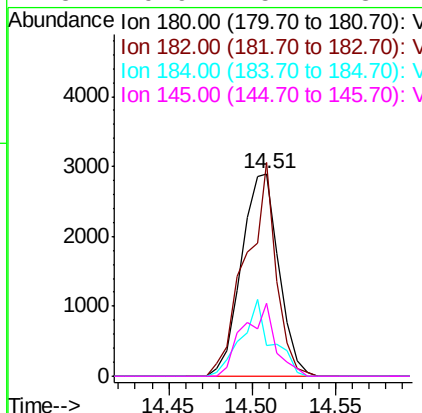
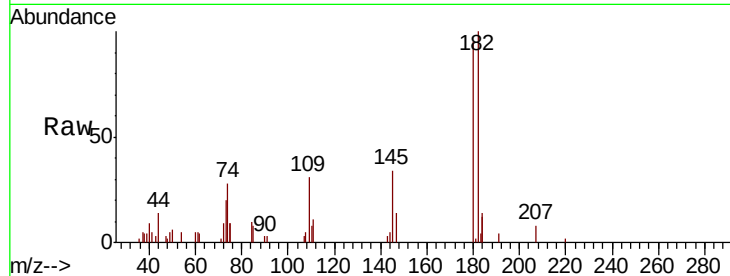
#67
 1,3,5-Trichlorobenzene
 Concen: 0.639 ug/L m
 RT: 14.51 min Scan# 2095
 Delta R.T. 0.01 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL03

Tot Ion:	180	Resp:	4584
Ion	Ratio	Lower	Upper
180	100		
182	83.2	75.6	113.4
184	27.9	24.5	36.7
145	29.9	25.1	37.7

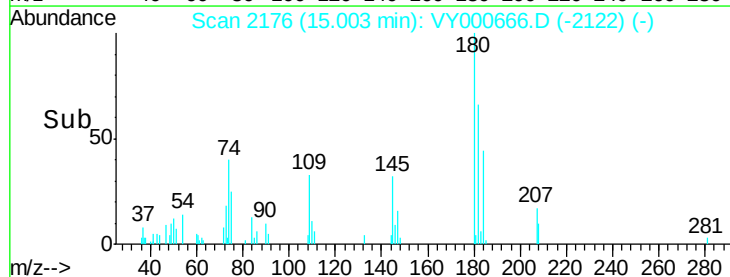
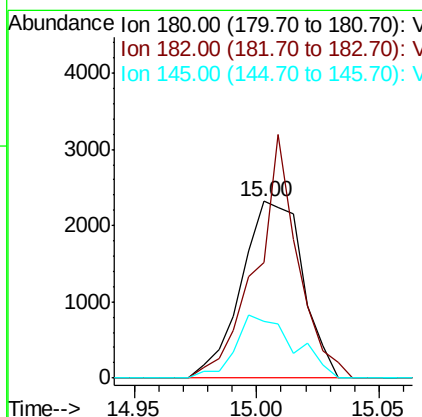
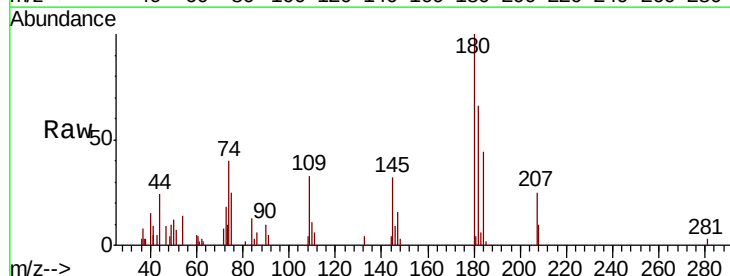
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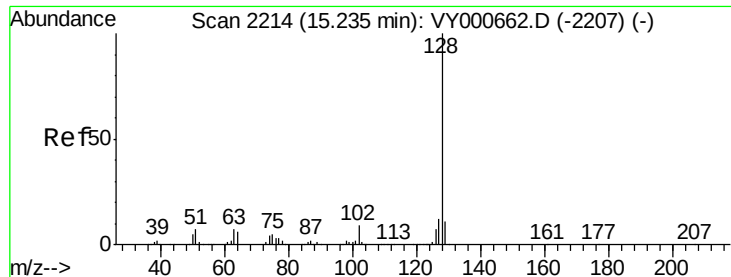
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#68
 1,2,4-trichlorobenzene
 Concen: 0.635 ug/L
 RT: 15.00 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VY000666.D
 Acq: 13 Nov 2019 12:38

Tgt Ion:	180	Resp:	4067
Ion	Ratio	Lower	Upper
180	100		
182	93.8	77.5	116.3
145	33.7	25.4	38.2





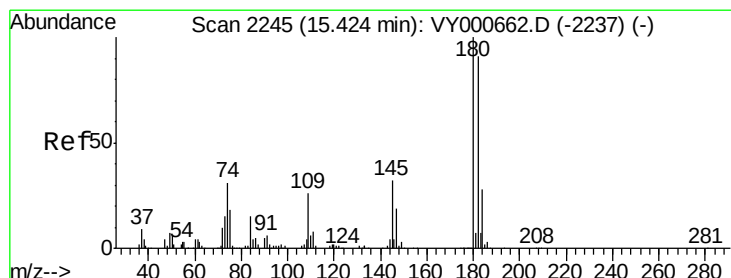
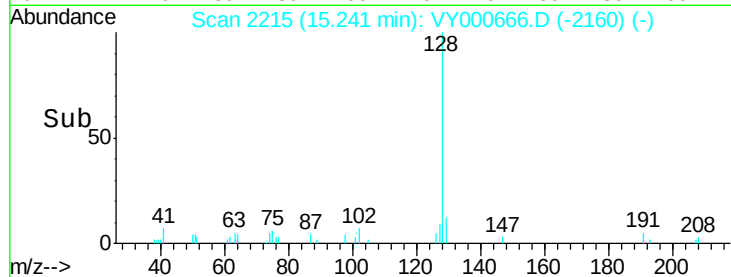
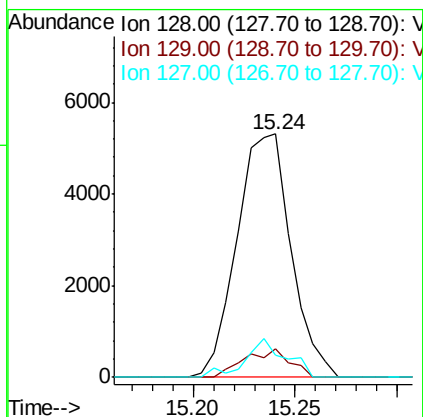
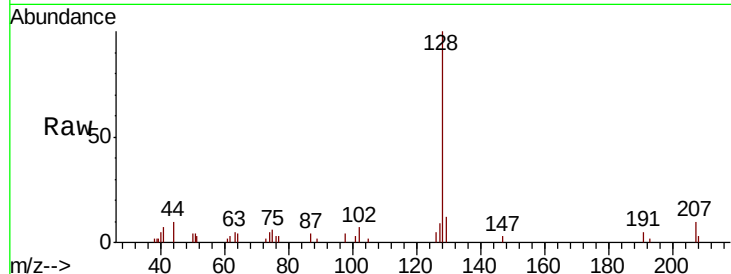
#69
Naphthalene
Concen: 0.612 ug/L
RT: 15.24 min Scan# 2215
Delta R.T. 0.01 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
129	9.7	8.4	12.6
127	7.3	9.8	14.6

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#70
1,2,3-Trichlorobenzene
Concen: 0.585 ug/L
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VY000666.D
Acq: 13 Nov 2019 12:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.2	114.4
145	35.5	26.6	39.8

