

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070818\
 Data File : VW003764.D
 Acq On : 07 Jul 2018 13:19
 Operator : SY/AP
 Sample : J3661-06
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 12:57:23 PM

Quant Time: Jul 09 10:35:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 09 09:32:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	292089	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	278445	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	145027	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.34	65	96645	27.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.08%
7) Chloroethane-d5	2.89	69	82971	30.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	120.52%
10) 1,1-Dichloroethene-d2	4.01	63	177272	23.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.28%
20) 2-Butanone-d5	7.09	46	92023	75.33	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	150.66%#
24) Chloroform-d	7.65	84	194406	26.07	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.28%
26) 1,2-Dichloroethane-d4	8.31	65	119528	26.81	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.24%
29) Benzene-d6	8.27	84	367640	25.84	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.36%
33) 1,2-Dichloropropane-d6	9.27	67	118953	25.60	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.40%
37) Toluene-d8	10.33	98	356172	26.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	106.64%
38) trans-1,3-Dichloropropene-	10.58	79	56027	26.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	106.36%
39) 2-Hexanone-d5	10.93	63	68967	77.19	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	154.38%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	128387	30.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	121.36%#
61) 1,2-Dichlorobenzene-d4	13.86	152	131244	25.20	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.00	85	30301	24.25	ug/L	# 73
5) Vinyl chloride	2.35	62	65084	15.28	ug/L	98
8) Chloroethane	2.92	64	56035	22.10	ug/L	98
12) 1,1-Dichloroethene	4.03	96	55347m	15.50	ug/L	
13) Acetone	4.14	43	291919	236.66	ug/L	99
14) Carbon disulfide	4.37	76	275053	23.77	ug/L	99
16) Methylene chloride	4.91	84	134965	32.34	ug/L	98
18) trans-1,2-Dichloroethene	5.41	96	109886	28.78	ug/L	97
19) 1,1-Dichloroethane	6.21	63	83435	11.59	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	139438	34.31	ug/L	95
23) Bromochloromethane	7.51	128	80451	43.05	ug/L	95
25) Chloroform	7.68	83	92758	12.55	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	267418	43.66	ug/L	100
32) Carbon tetrachloride	8.07	117	98180	16.94	ug/L	100
35) Trichloroethene	9.09	95	147129	33.73	ug/L	99
40) 1,2-Dichloropropane	9.37	63	88507	20.43	ug/L	100
41) Bromodichloromethane	9.65	83	72749	13.28	ug/L	99

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

42) cis-1,3-Dichloropropene	10.07	75	75151	11.72	ug/L	98
43) 4-Methyl-2-pentanone	10.22	43	174713	57.97	ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	124862	21.42	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	37275	11.59	ug/L	96
47) Tetrachloroethene	10.87	164	78064	22.00	ug/L	98
49) 2-Hexanone	10.98	43	198070	86.80	ug/L	98
50) Dibromochloromethane	11.13	129	52348	13.65	ug/L	100
51) 1,2-Dibromoethane	11.24	107	72170	23.03	ug/L	94
56) Styrene	12.19	104	226440	19.11	ug/L	96
58) 1,1,2,2-Tetrachloroethane	12.72	83	151228	35.80	ug/L	99
59) 1,2,3-Trichloropropane	13.57	75	18919	5.87	ug/L	90
62) Bromoform	12.35	173	54907	22.64	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	242659	27.03	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	43077	56.22	ug/L	93
70) 1,2,3-Trichlorobenzene	15.57	180	50253	9.52	ug/L	96

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

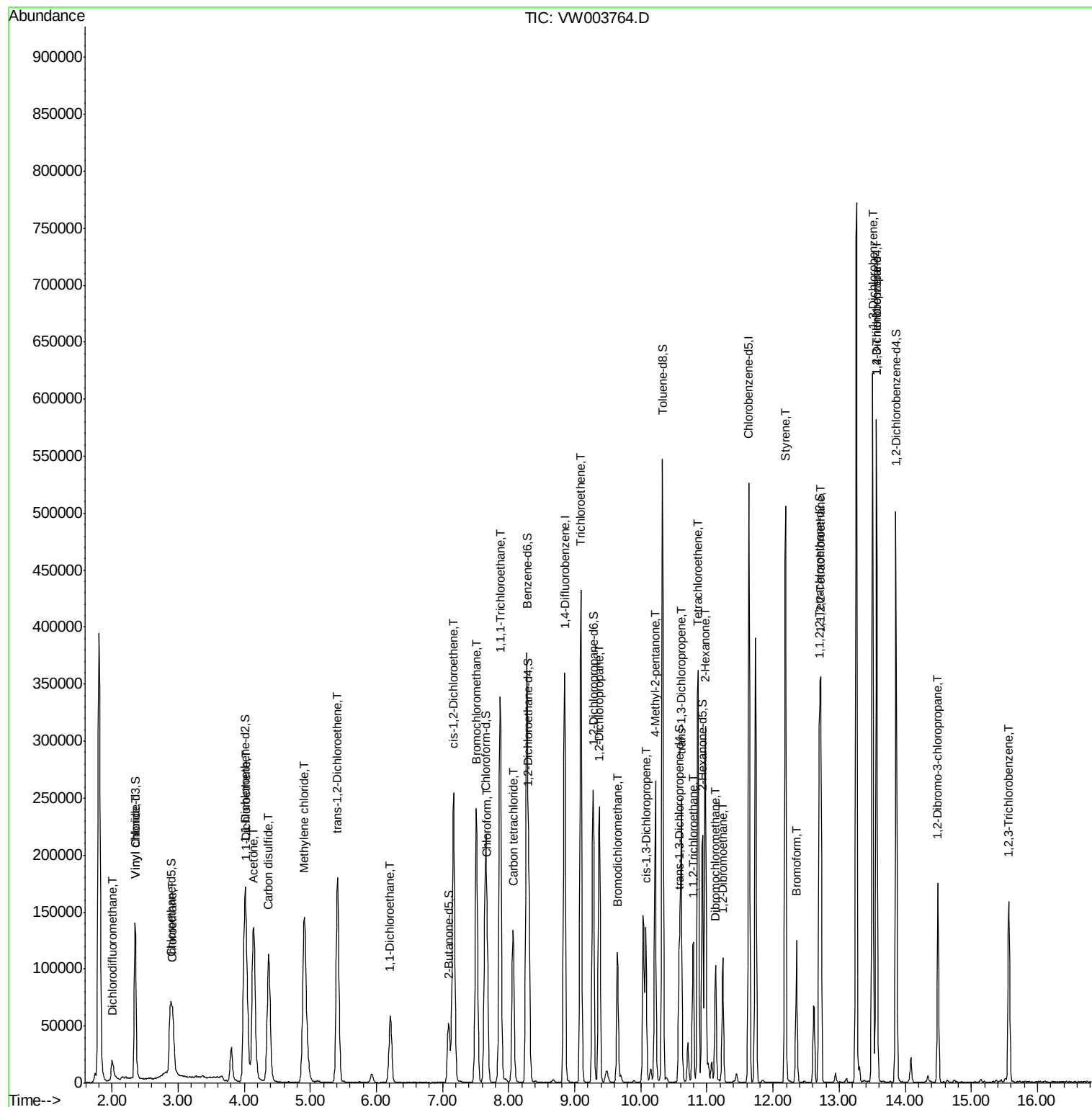
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW070818\
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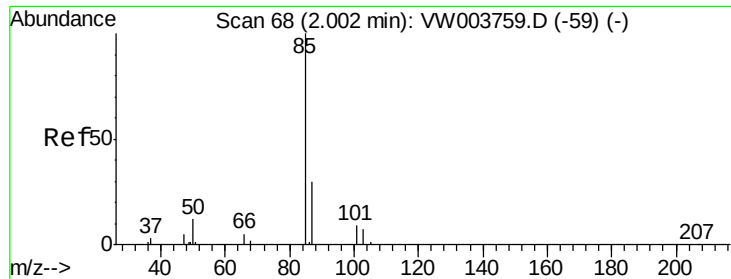
Instrument :
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#2

Dichlorodifluoromethane

Concen: 24.25 ug/L

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Instrument :

MSVOA_W

ClientSampleId :

X2D24

Tot Ion: 85 Resp: 30301

Ion Ratio Lower Upper

85 100

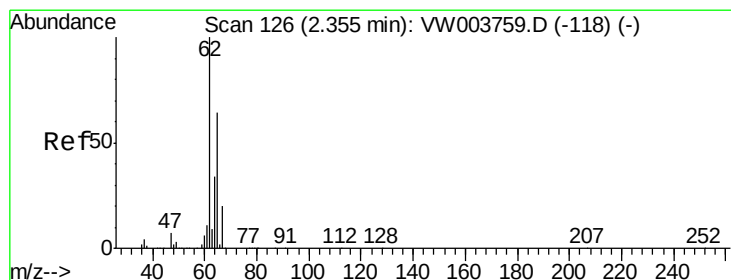
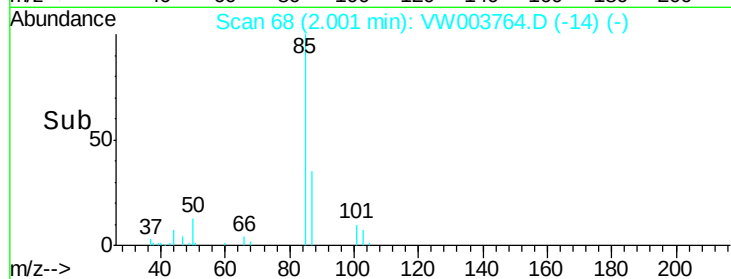
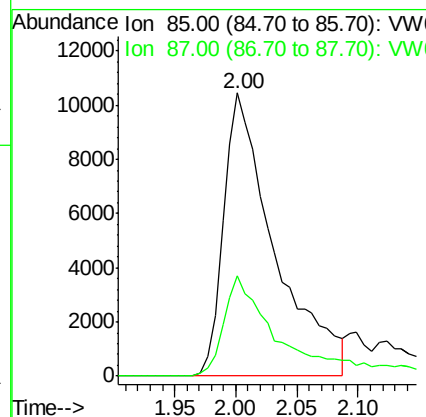
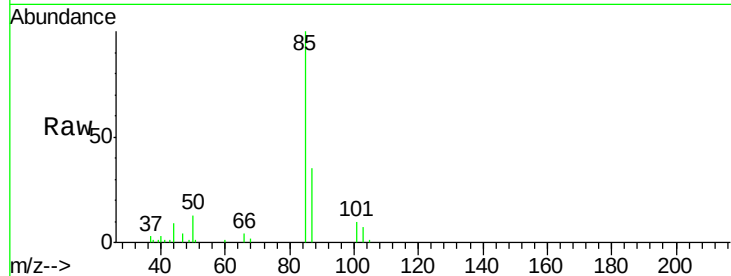
87 36.6 16.4 30.4#

Manual Integrations

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#5

Vinyl chloride

Concen: 15.28 ug/L

RT: 2.35 min Scan# 126

Delta R.T. -0.00 min

Lab File: VW003764.D

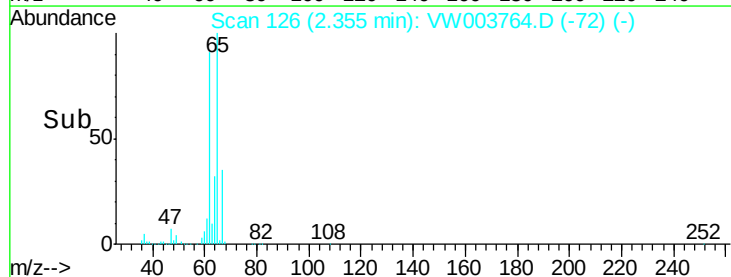
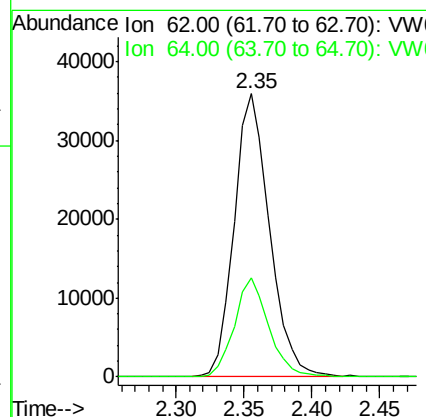
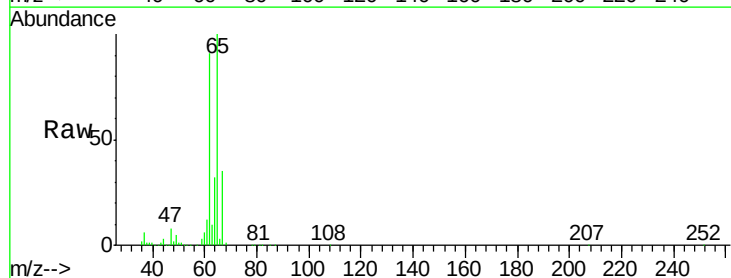
Acq: 07 Jul 2018 13:19

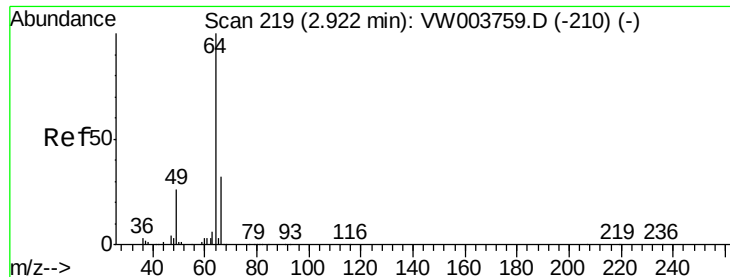
Tgt Ion: 62 Resp: 65084

Ion Ratio Lower Upper

62 100

64 34.9 23.4 43.6





#8

Chloroethane

Concen: 22.10 ug/L

RT: 2.92 min Scan# 218

Delta R.T. -0.01 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Instrument :

MSVOA_W

ClientSampleId :

X2D24

Tot Ion: 64 Resp: 56035

Ion Ratio Lower Upper

64 100

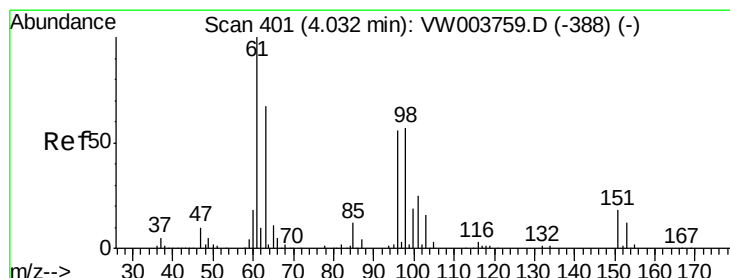
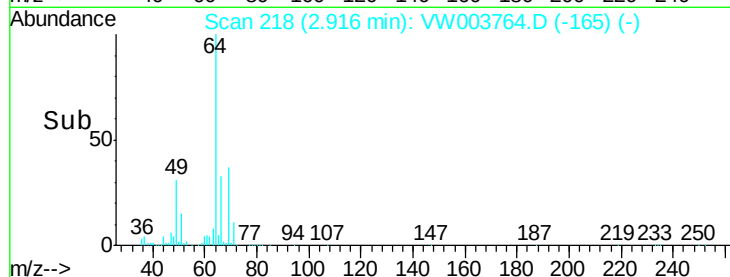
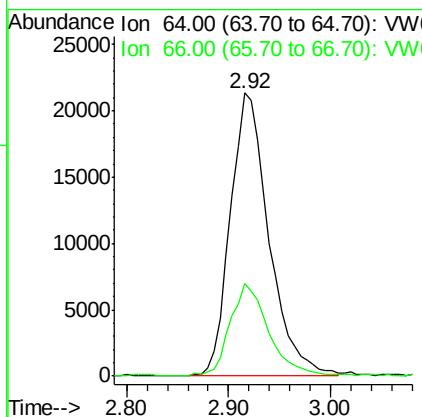
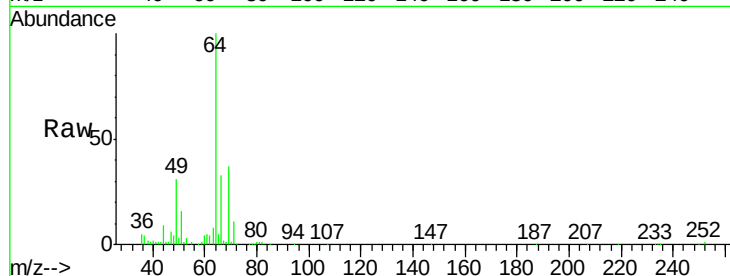
66 32.8 22.1 41.1

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 15.50 ug/L m

RT: 4.03 min Scan# 401

Delta R.T. -0.00 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

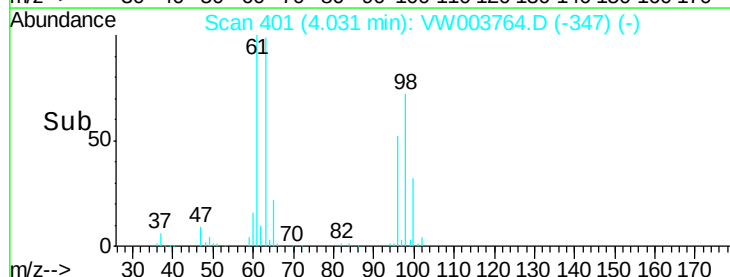
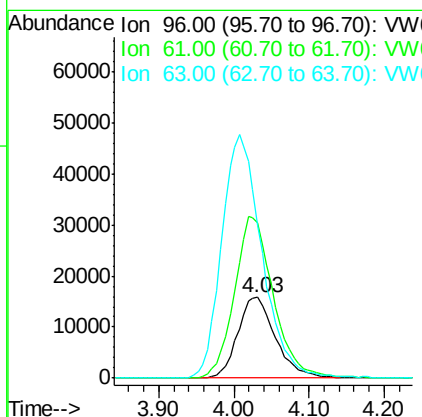
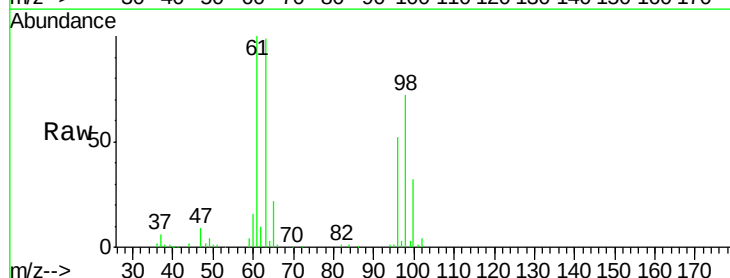
Tgt Ion: 96 Resp: 55347

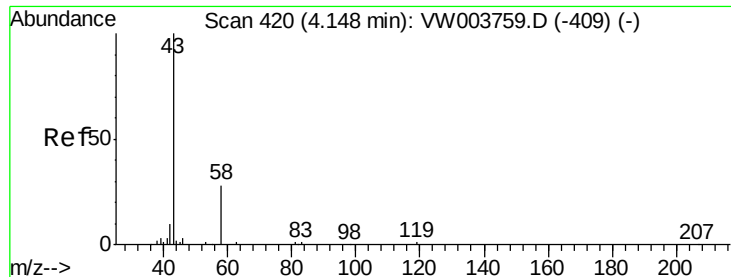
Ion Ratio Lower Upper

96 100

61 191.8 126.2 234.4

63 189.2 85.8 159.4#





#13

Acetone

Concen: 236.66 ug/L

RT: 4.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Instrument :

MSVOA_W

ClientSampled :

X2D24

Tot Ion: 43 Resp: 291919

Ion Ratio Lower Upper

43 100

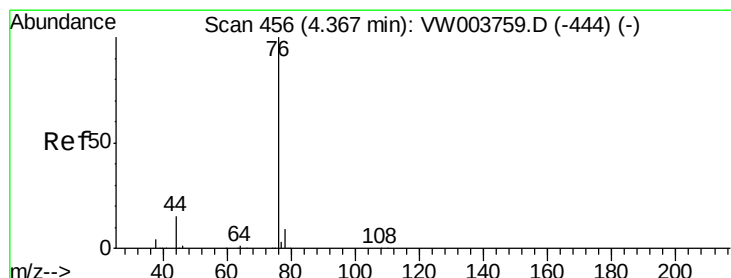
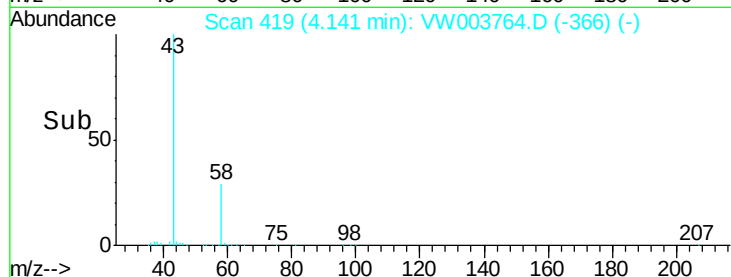
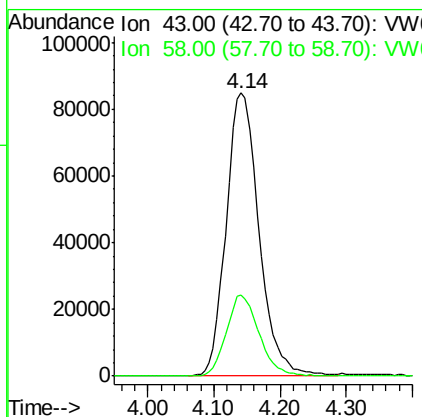
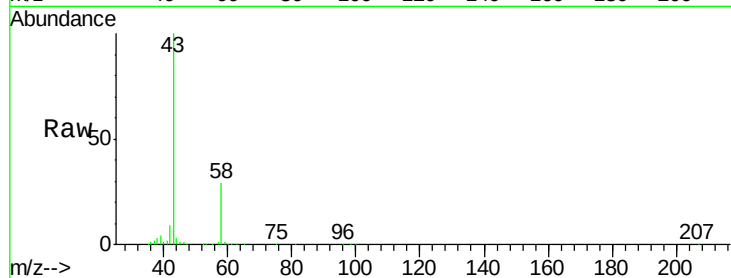
58 28.4 0.0 58.2

Manual Integrations

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#14

Carbon disulfide

Concen: 23.77 ug/L

RT: 4.37 min Scan# 456

Delta R.T. -0.00 min

Lab File: VW003764.D

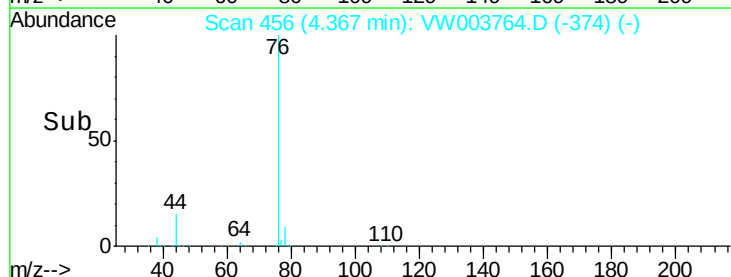
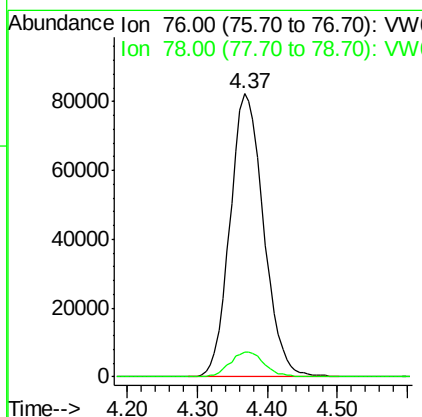
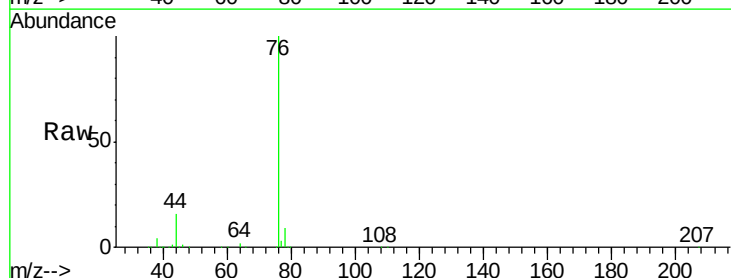
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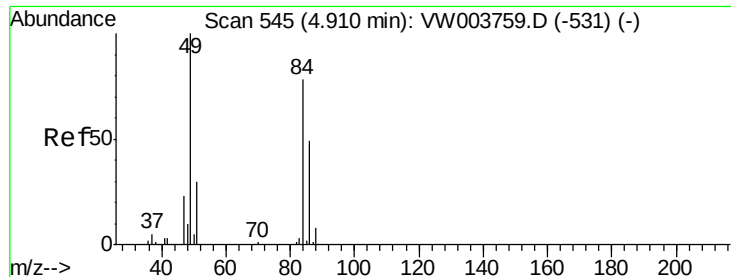
Tgt Ion: 76 Resp: 275053

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8





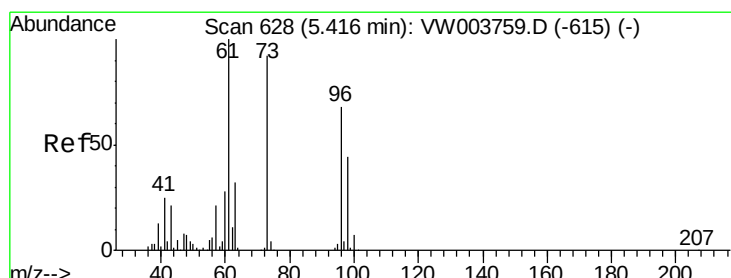
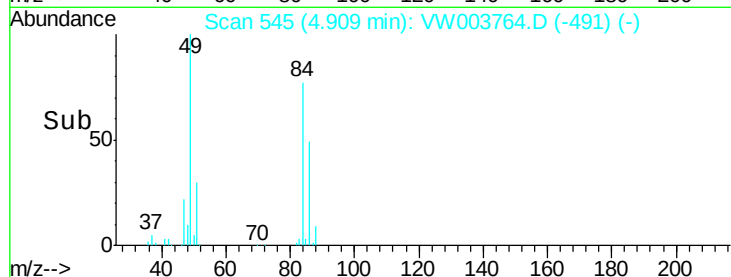
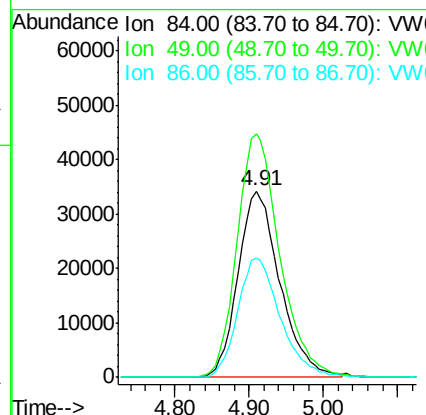
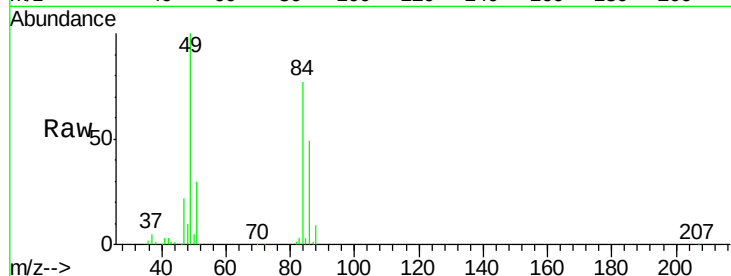
#16
Methylene chloride
Concen: 32.34 ug/L
RT: 4.91 min Scan# 545
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Instrument :
MSVOA_W
ClientSampled :
X2D24

Tot Ion	Ratio	Resp	Lower	Upper
84	100			
49	130.5	89.9	166.9	
86	64.2	43.9	81.5	

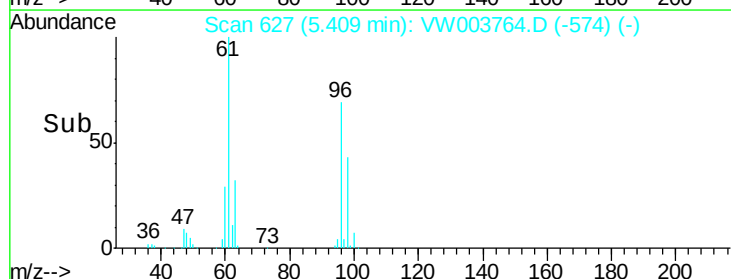
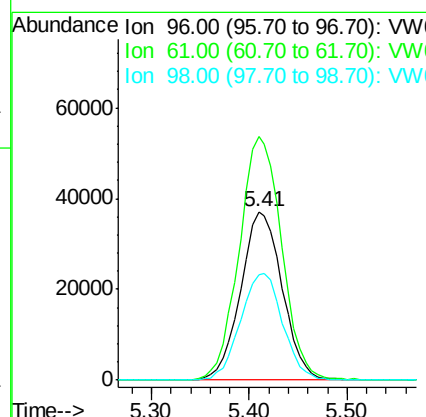
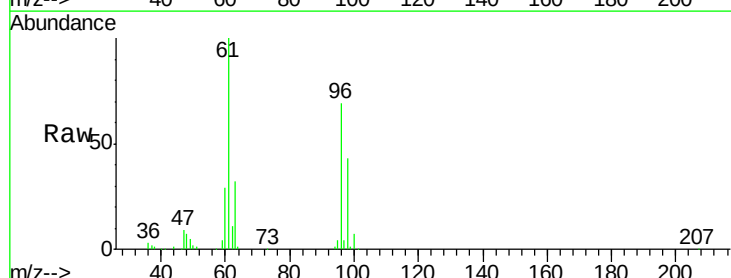
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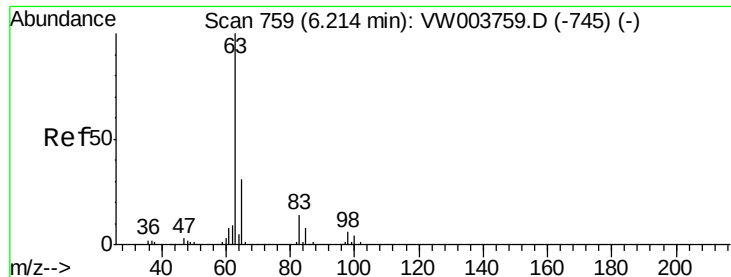
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#18
trans-1,2-Dichloroethene
Concen: 28.78 ug/L
RT: 5.41 min Scan# 627
Delta R.T. -0.01 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	144.5	103.0	191.2	
98	62.2	45.8	85.2	





#19

1,1-Dichloroethane

Concen: 11.59 ug/L

RT: 6.21 min Scan# 758

Delta R.T. -0.01 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Instrument :

MSVOA_W

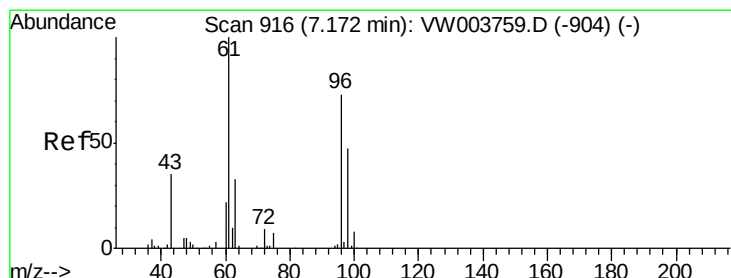
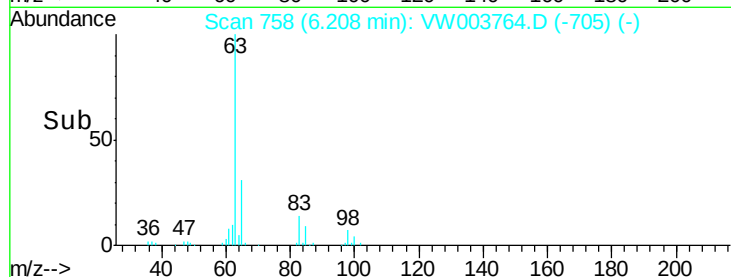
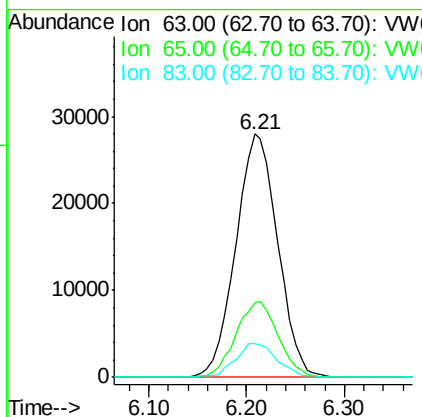
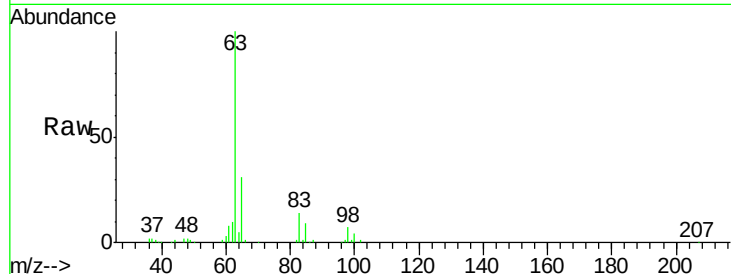
ClientSampled :

X2D24

Tot Ion:	63	Resp:	83435
Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.9	40.7
83	13.9	9.6	17.8

Manual Integrations
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7/9/2018 12:57:23 PM



#22

cis-1,2-Dichloroethene

Concen: 34.31 ug/L

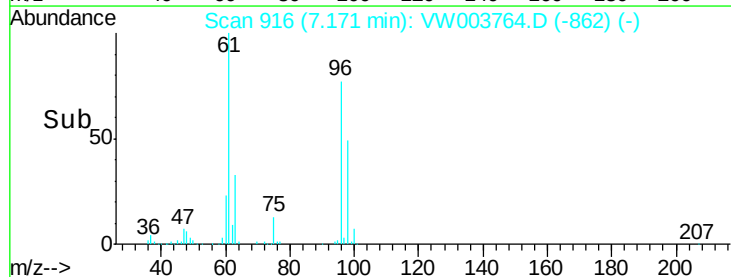
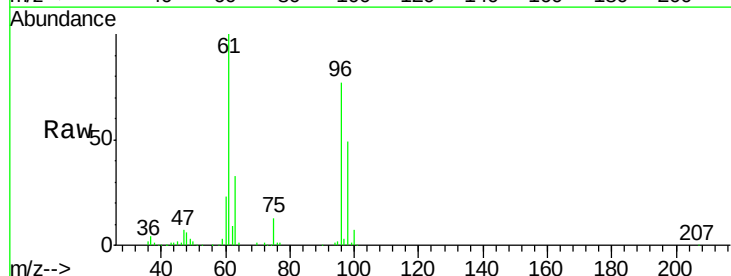
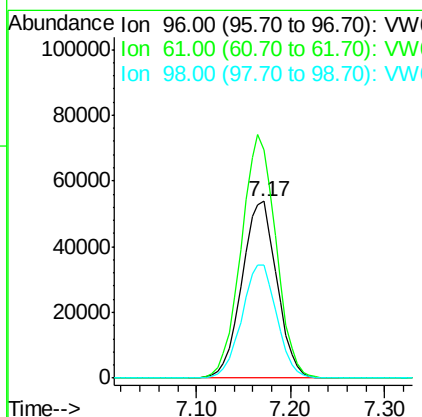
RT: 7.17 min Scan# 916

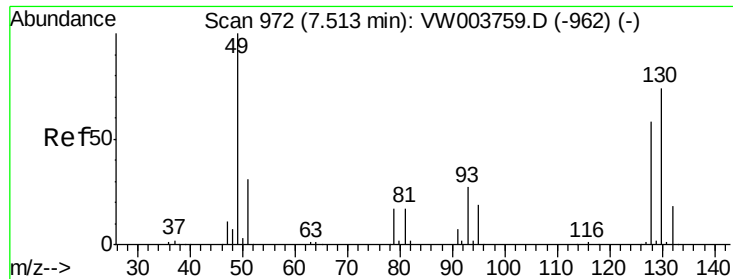
Delta R.T. -0.00 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Tgt Ion:	96	Resp:	139438
Ion	Ratio	Lower	Upper
96	100		
61	129.3	96.4	179.0
98	63.8	45.6	84.8





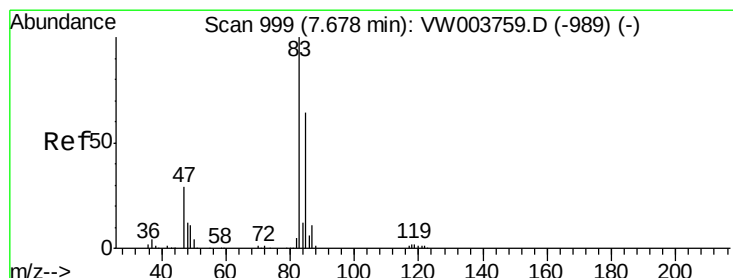
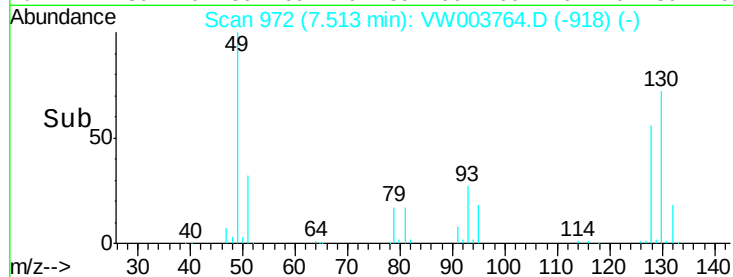
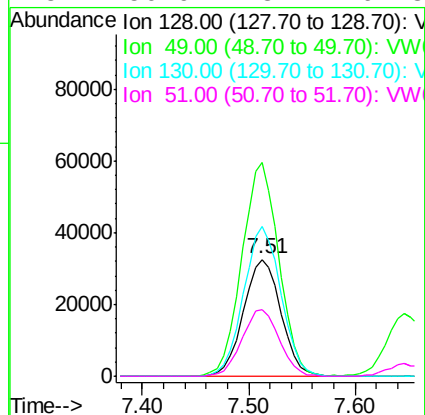
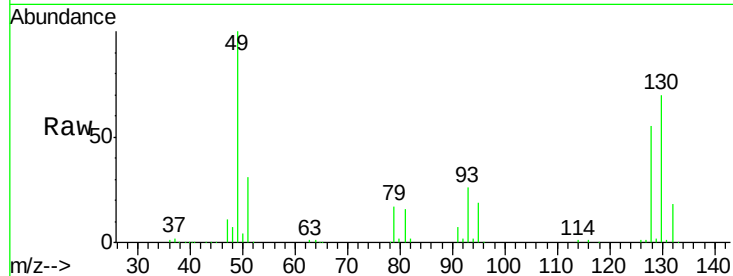
#23
Bromochloromethane
Concen: 43.05 ug/L
RT: 7.51 min Scan# 972
Delta R.T. -0.00 min
Lab File: VW003764.D
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Instrument :
MSVOA_W
ClientSampled :
X2D24

Tot Ion	Ratio	Lower	Upper
128	100		
49	183.1	120.7	224.1
130	128.7	88.8	164.8
51	56.9	43.2	64.8

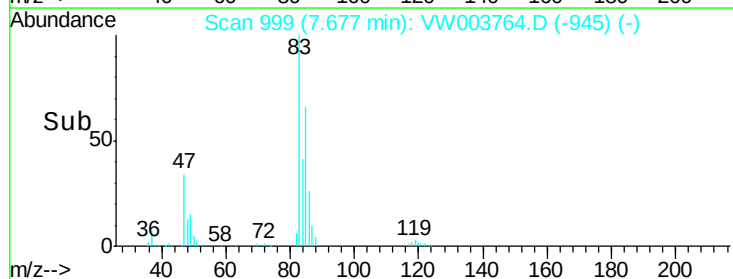
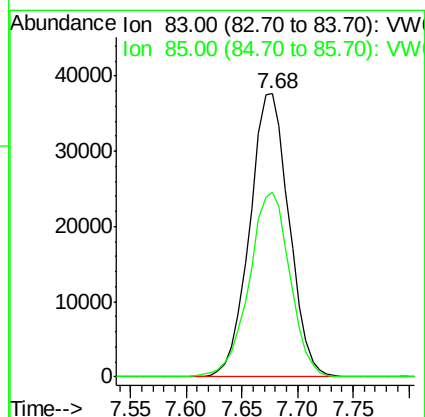
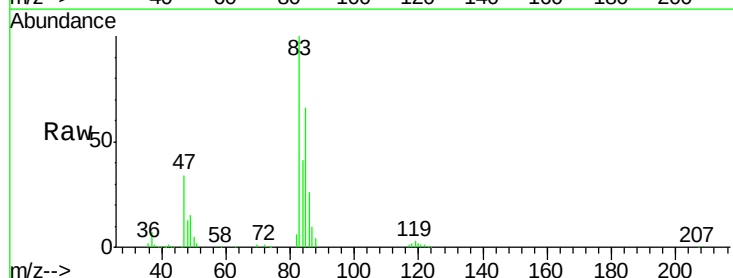
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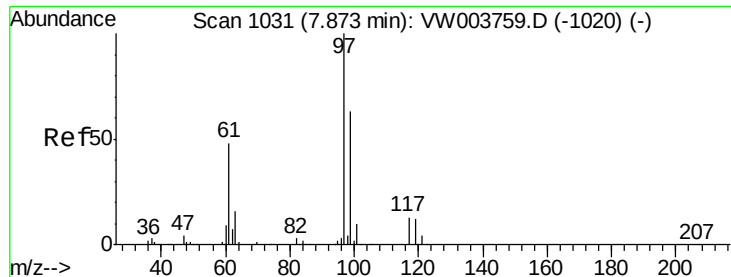
MMDadoda
7/9/2018 12:57:23 PM



#25
Chloroform
Concen: 12.55 ug/L
RT: 7.68 min Scan# 999
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.6	46.0	85.4





#31

1,1,1-Trichloroethane

Concen: 43.66 ug/L

RT: 7.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Instrument :

MSVOA_W

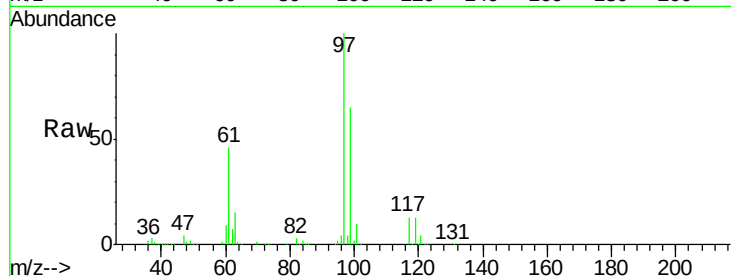
ClientSampled :

X2D24

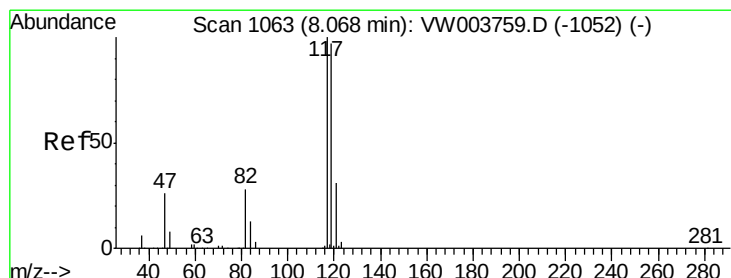
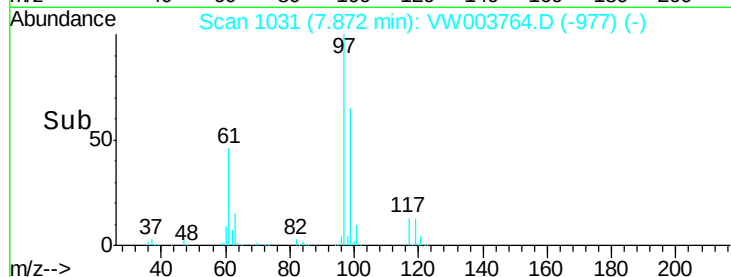
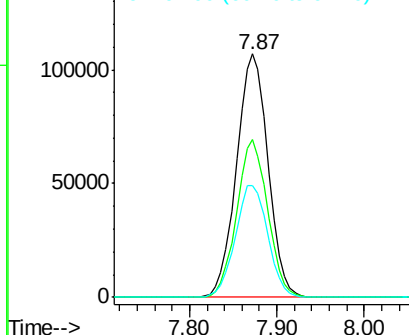
Tot Ion:	97	Resp:	267418
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.3	76.9
61	47.4	38.1	57.1

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Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 16.94 ug/L

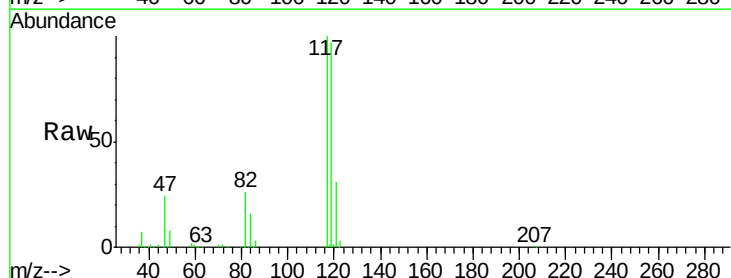
RT: 8.07 min Scan# 1063

Delta R.T. -0.00 min

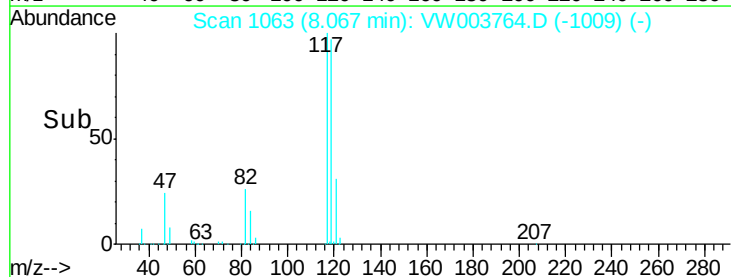
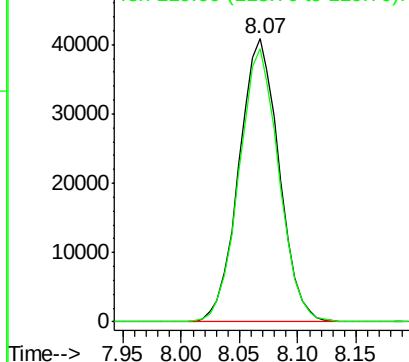
Lab File: VW003764.D

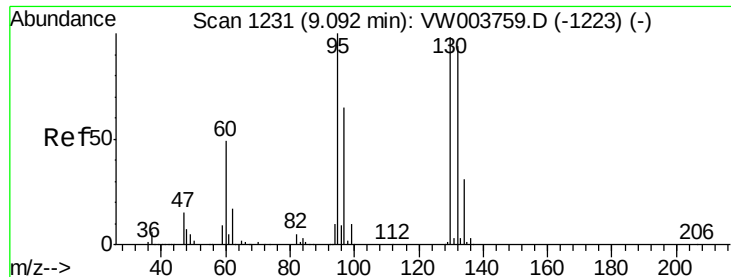
Acq: 07 Jul 2018 13:19

Tgt Ion:	117	Resp:	98180
Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.8	115.2



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V





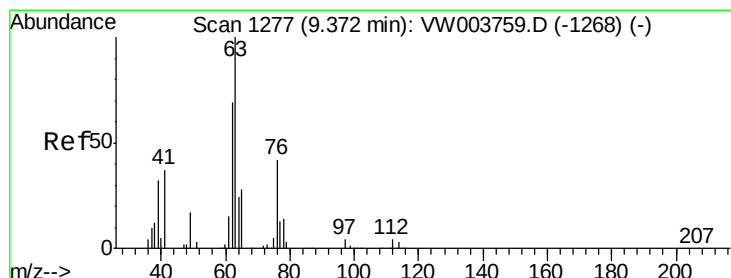
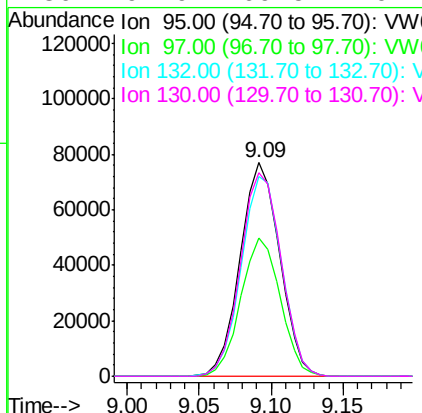
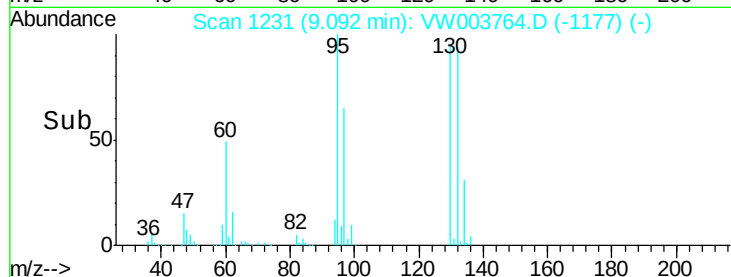
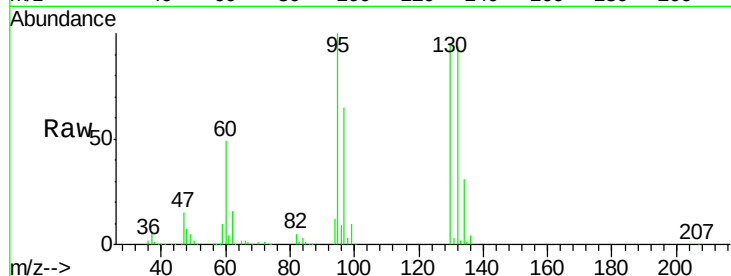
#35
 Trichloroethene
 Concen: 33.73 ug/L
 RT: 9.09 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VW003764.D
 Acq: 07 Jul 2018 13:19

Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100				
97	64.5		44.7	82.9	
132	95.4		66.2	123.0	
130	97.9		69.5	129.1	

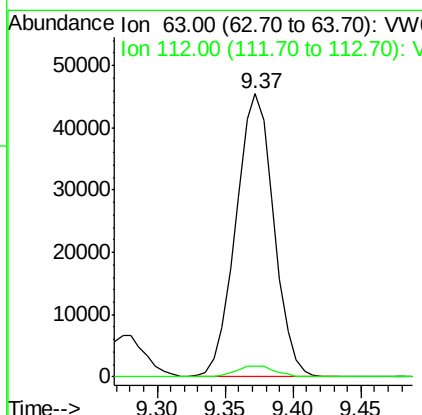
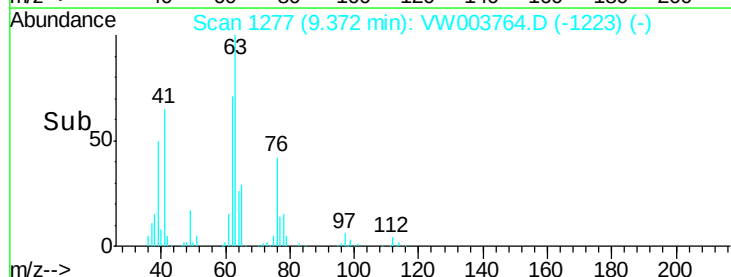
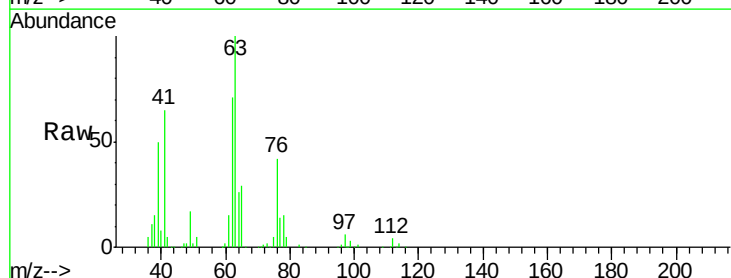
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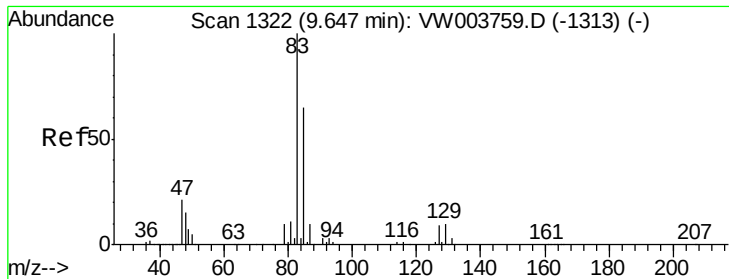
MMDadoda
 7/9/2018 12:57:23 PM



#40
 1,2-Dichloropropane
 Concen: 20.43 ug/L
 RT: 9.37 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VW003764.D
 Acq: 07 Jul 2018 13:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100				
112	4.1		3.3	4.9	





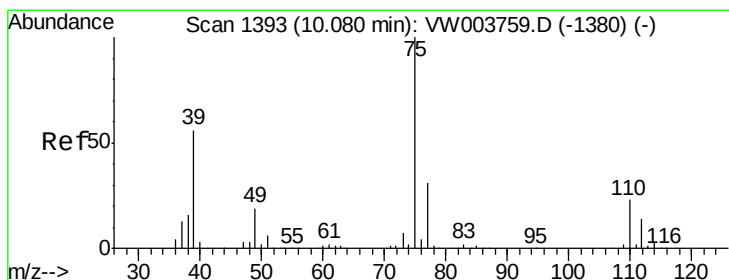
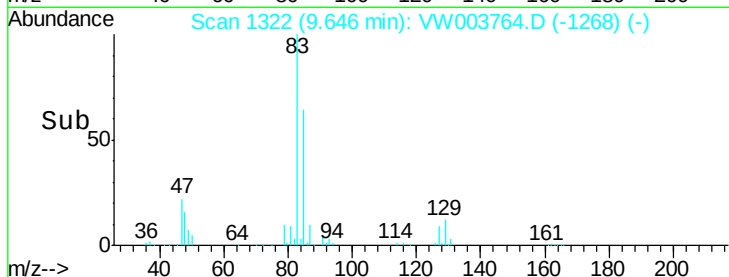
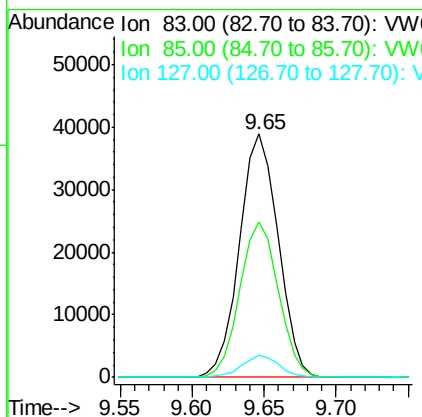
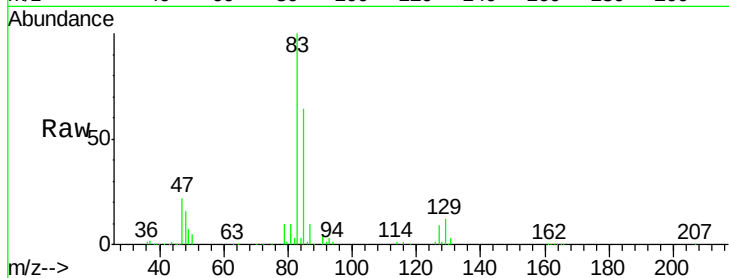
#41
Bromodichloromethane
Concen: 13.28 ug/L
RT: 9.65 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Instrument :
MSVOA_W
ClientSampled :
X2D24

Tot Ion	83	Resp	72749
Ion Ratio	100		
Lower	45.1		
Upper	83.9		
85	63.7		
127	8.9		
	6.8		
	10.2		

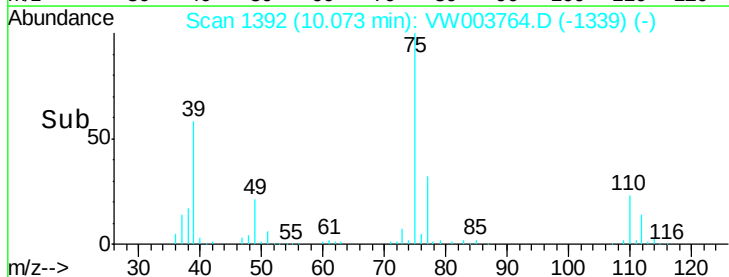
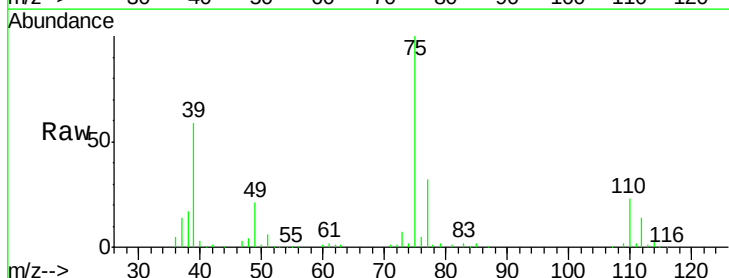
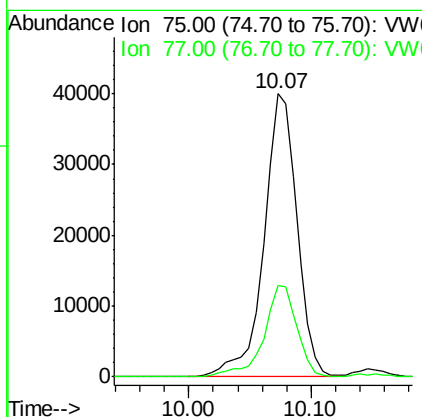
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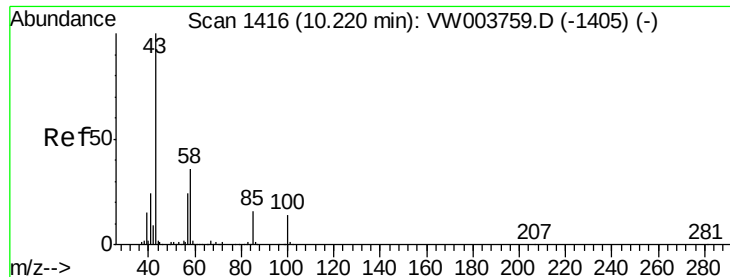
MMDadoda
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#42
cis-1,3-Dichloropropene
Concen: 11.72 ug/L
RT: 10.07 min Scan# 1392
Delta R.T. -0.01 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion	75	Resp	75151
Ion Ratio	100		
Lower	21.6		
Upper	40.0		
77	32.1		





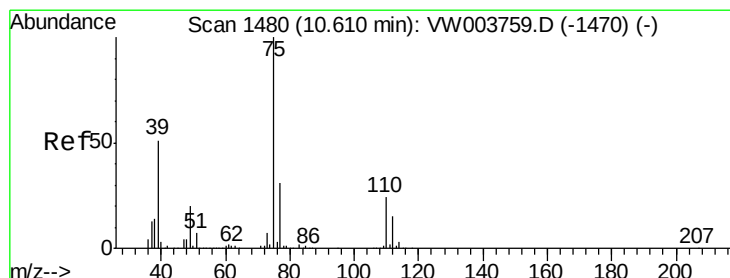
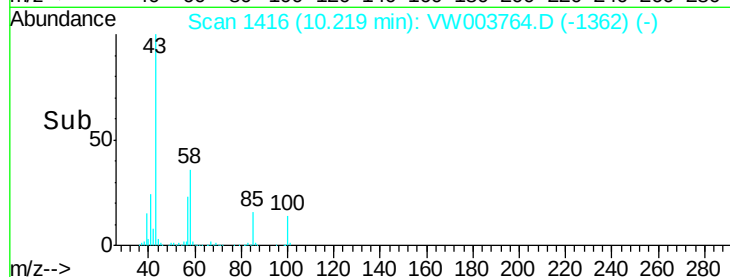
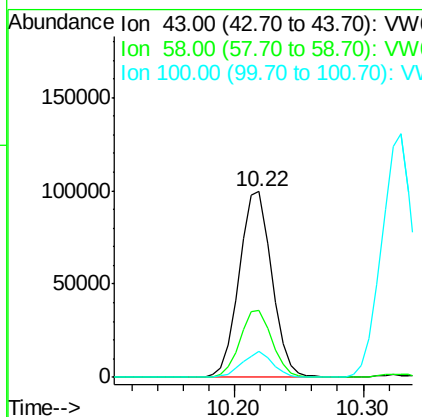
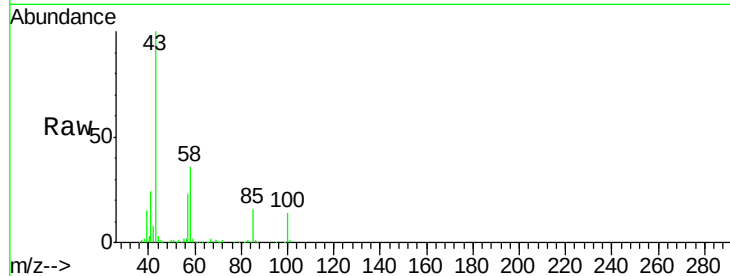
#43
4-Methyl-2-pentanone
Concen: 57.97 ug/L
RT: 10.22 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Instrument :
MSVOA_W
ClientSampled :
X2D24

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.5	29.0	43.4
100	13.0	10.7	16.1

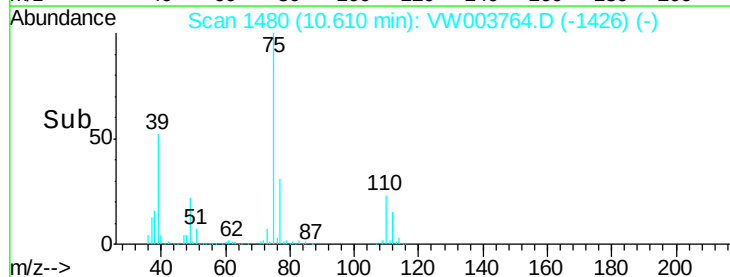
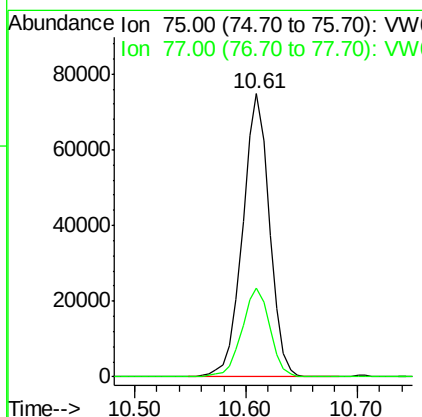
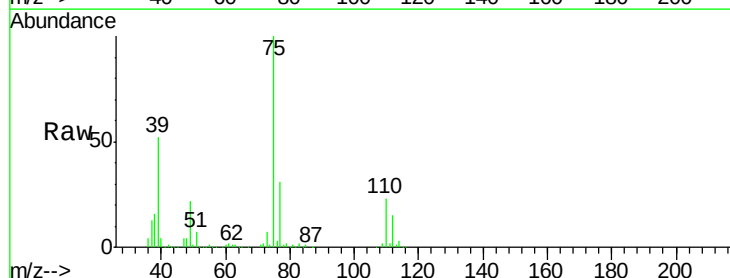
Manual Integrations
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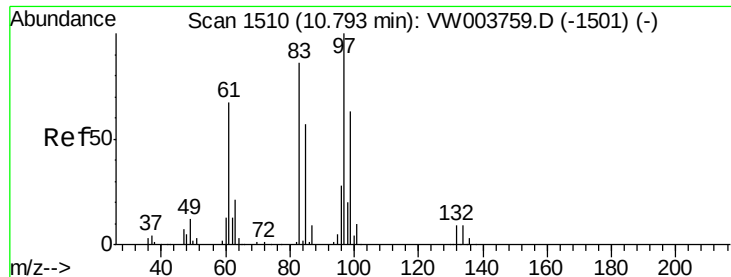
MMDadoda
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#45
trans-1,3-Dichloropropene
Concen: 21.42 ug/L
RT: 10.61 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	21.8	40.4





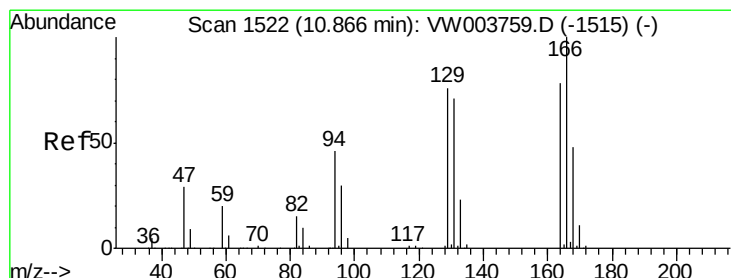
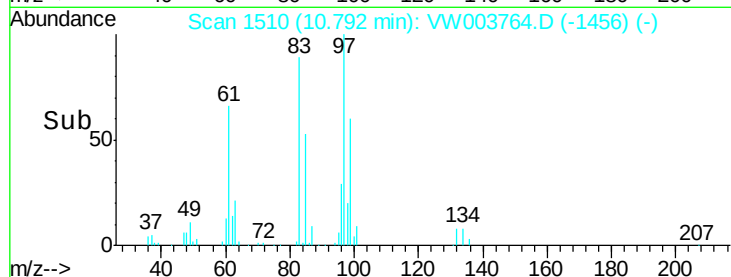
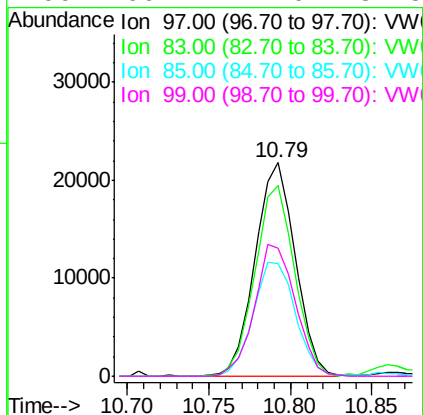
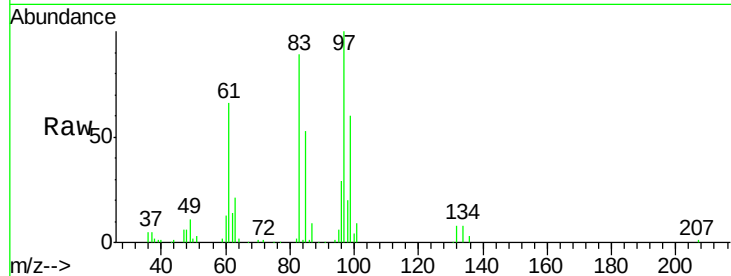
#46
1,1,2-Trichloroethane
Concen: 11.59 ug/L
RT: 10.79 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Instrument :
MSVOA_W
ClientSampleId :
X2D24

Tot Ion:	97	Resp:	37275
Ion	Ratio	Lower	Upper
97	100		
83	89.4	60.1	111.5
85	52.8	40.0	74.2
99	60.2	44.0	81.8

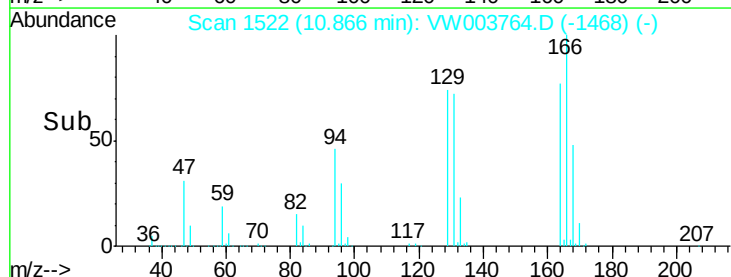
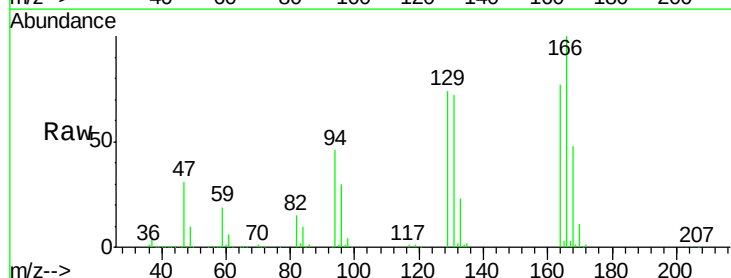
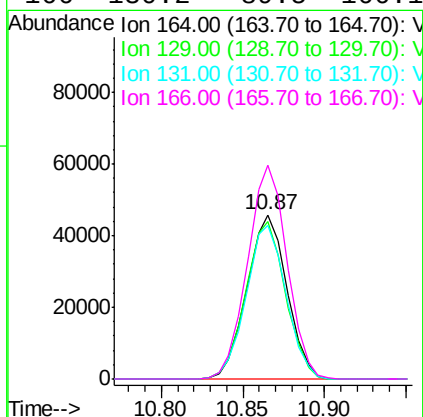
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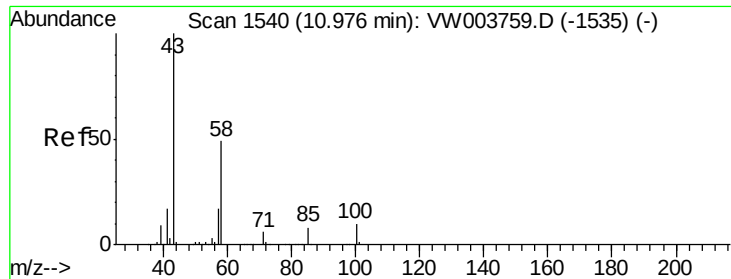
MMDadoda
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#47
Tetrachloroethene
Concen: 22.00 ug/L
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion:	164	Resp:	78064
Ion	Ratio	Lower	Upper
164	100		
129	95.9	68.3	126.8
131	93.8	63.8	118.4
166	130.2	89.5	166.1





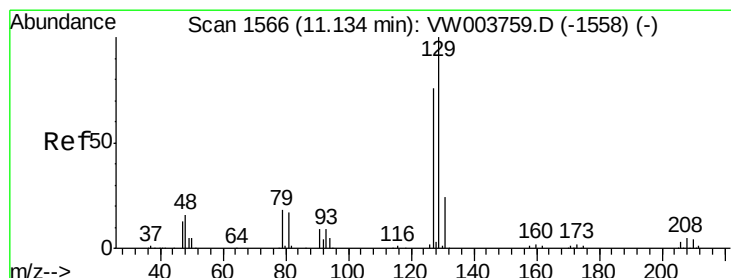
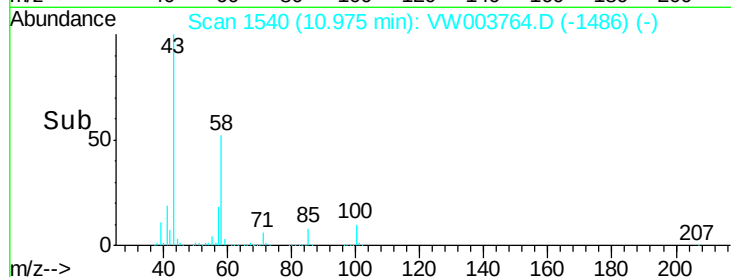
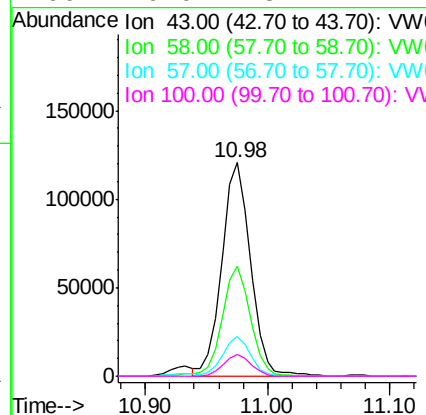
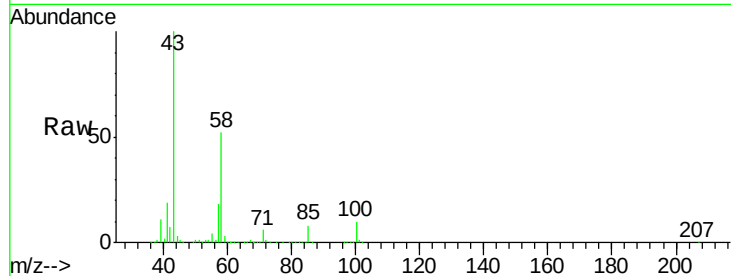
#49
2-Hexanone
Concen: 86.80 ug/L
RT: 10.98 min Scan# 1540
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Instrument :
MSVOA_W
ClientSampleId :
X2D24

Tot Ion:	43	Resp:	198070
Ion	Ratio	Lower	Upper
43	100		
58	50.8	39.5	59.3
57	17.6	13.8	20.8
100	10.0	8.2	12.2

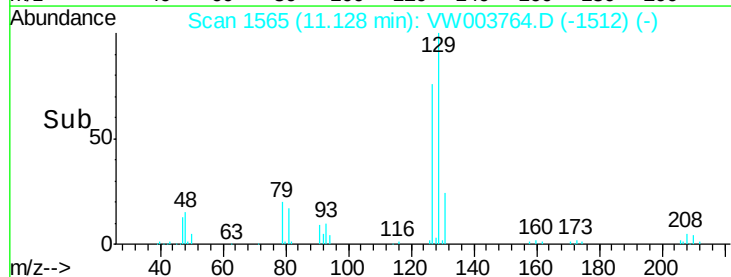
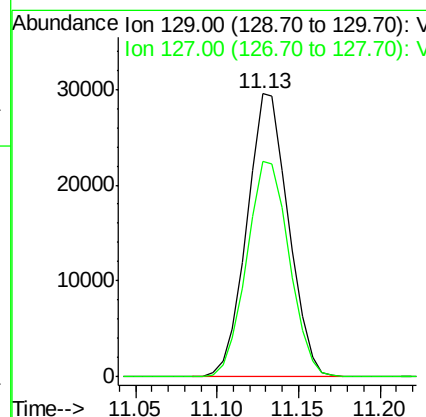
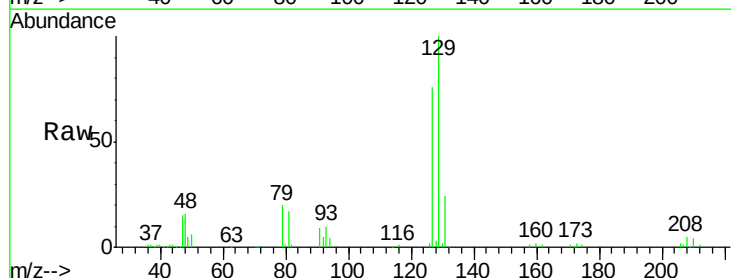
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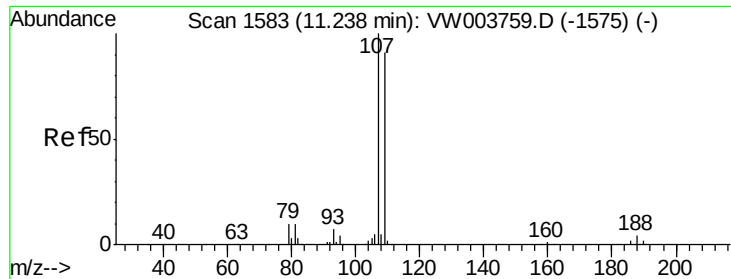
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#50
Dibromochloromethane
Concen: 13.65 ug/L
RT: 11.13 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion:	129	Resp:	52348
Ion	Ratio	Lower	Upper
129	100		
127	75.9	53.1	98.7





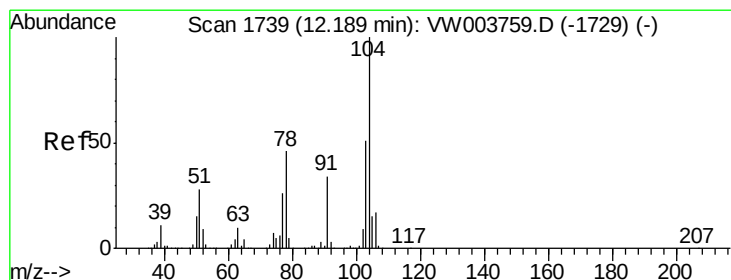
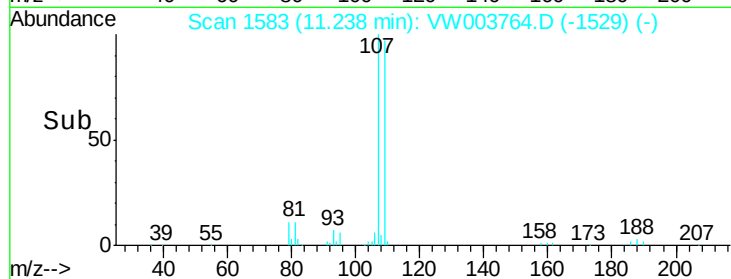
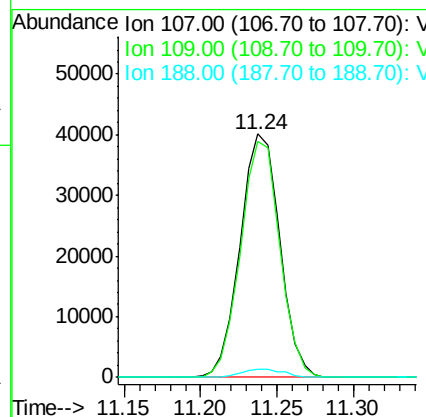
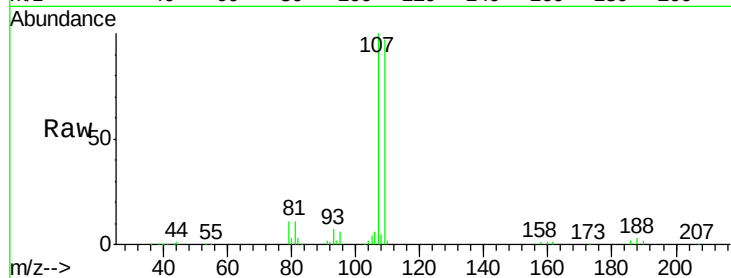
#51
 1,2-Dibromoethane
 Concen: 23.03 ug/L
 RT: 11.24 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VW003764.D
 Acq: 07 Jul 2018 13:19

Instrument :
 MSVOA_W
 ClientSampled :
 X2D24

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.2	63.7	118.3
188	3.4	2.9	4.3

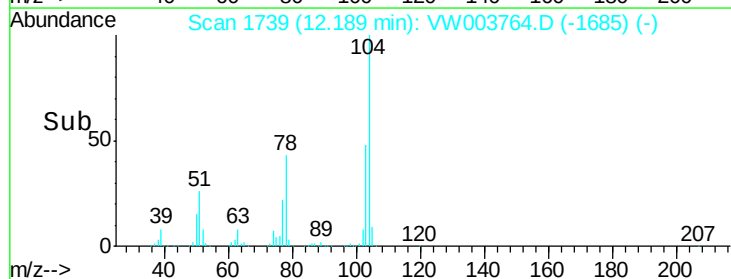
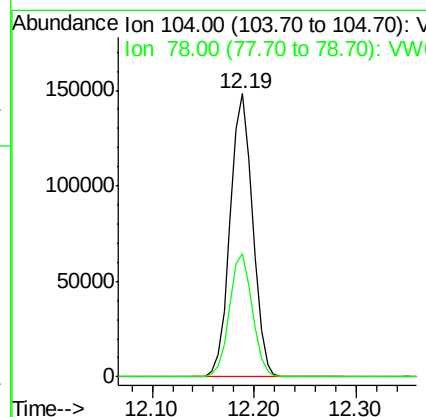
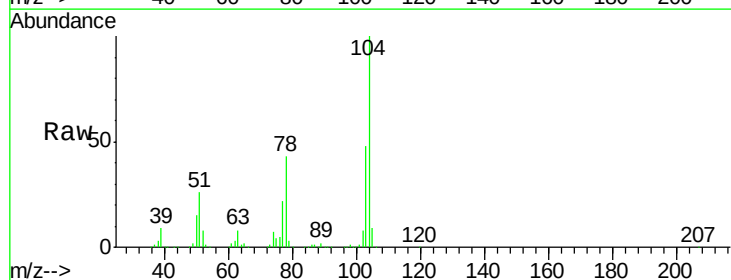
Manual Integrations
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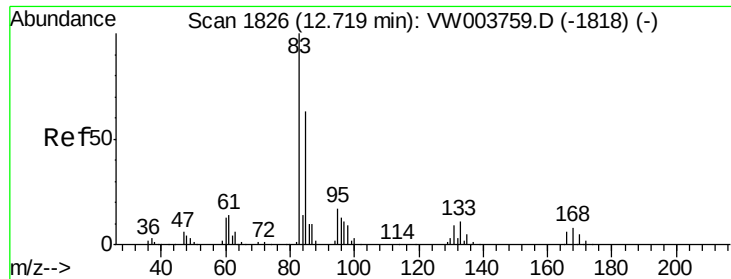
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#56
 Styrene
 Concen: 19.11 ug/L
 RT: 12.19 min Scan# 1739
 Delta R.T. -0.00 min
 Lab File: VW003764.D
 Acq: 07 Jul 2018 13:19

Tgt Ion	Ratio	Lower	Upper
104	100		
78	43.5	32.1	59.7





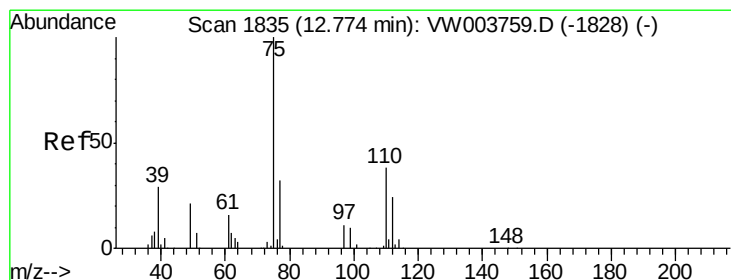
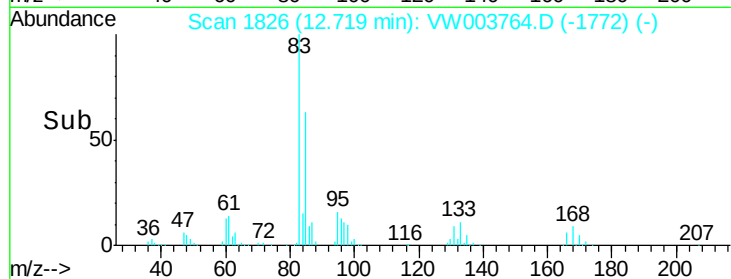
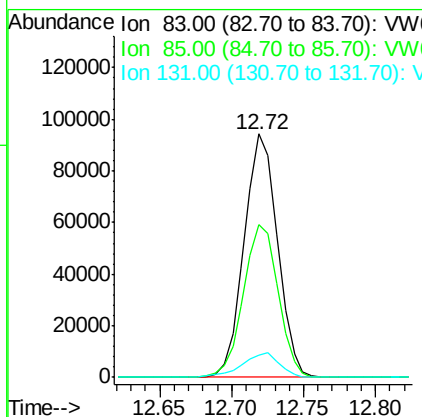
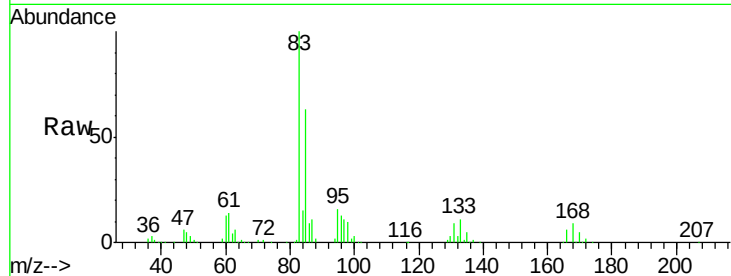
#58
 1,1,2,2-Tetrachloroethane
 Concen: 35.80 ug/L
 RT: 12.72 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VW003764.D
 Acq: 07 Jul 2018 13:19

Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

Tot Ion	83	Resp	151228
Ion Ratio	100	Lower	Upper
83	100		
85	62.6	44.2	82.0
131	8.9	7.5	11.3

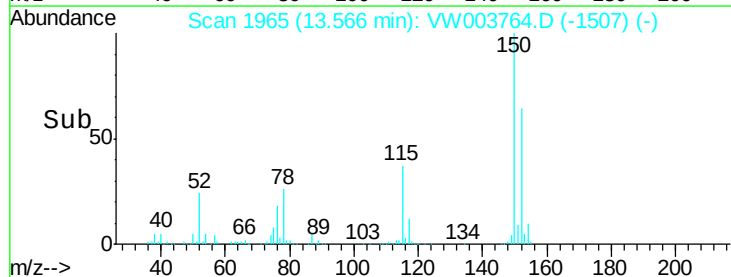
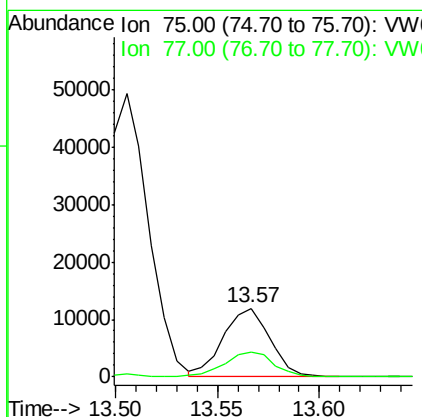
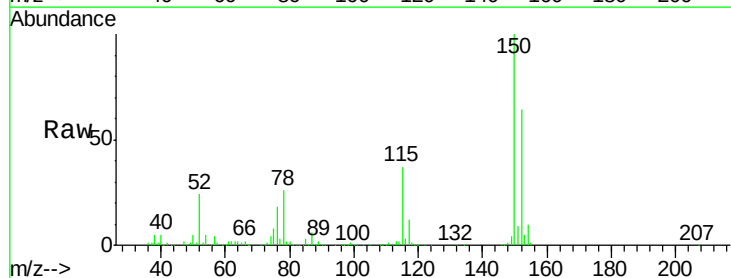
Manual Integrations
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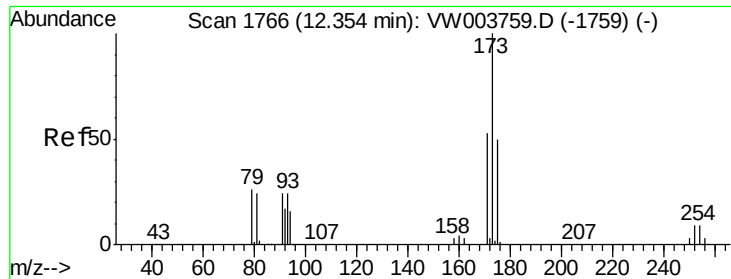
MMDadoda
 7/9/2018 12:57:23 PM



#59
 1,2,3-Trichloropropane
 Concen: 5.87 ug/L
 RT: 13.57 min Scan# 1965
 Delta R.T. 0.79 min
 Lab File: VW003764.D
 Acq: 07 Jul 2018 13:19

Tgt Ion	75	Resp	18919
Ion Ratio	100	Lower	Upper
75	100		
77	38.2	26.0	39.0





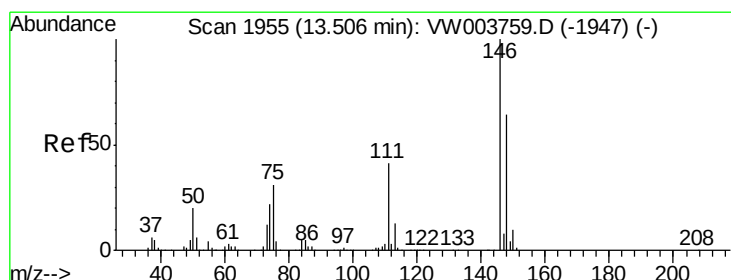
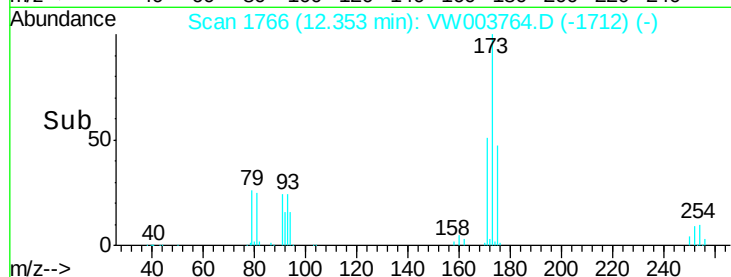
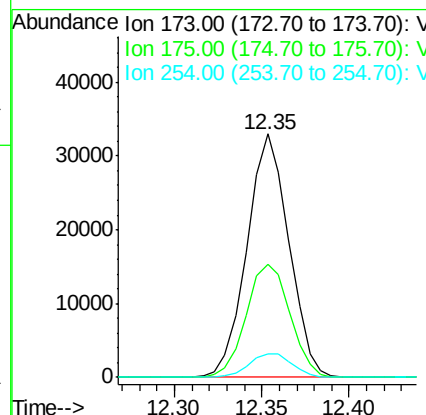
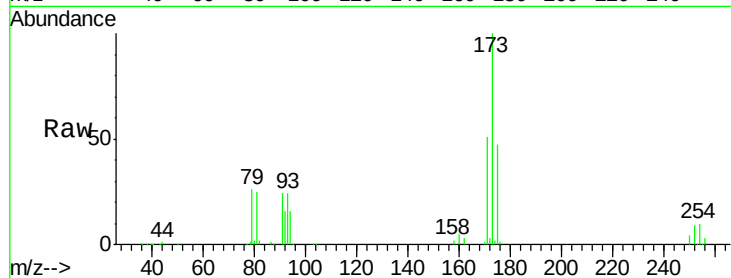
#62
Bromoform
Concen: 22.64 ug/L
RT: 12.35 min Scan# 1766
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Instrument :
MSVOA_W
ClientSampleId :
X2D24

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.7	58.1
254	10.0	7.7	11.5

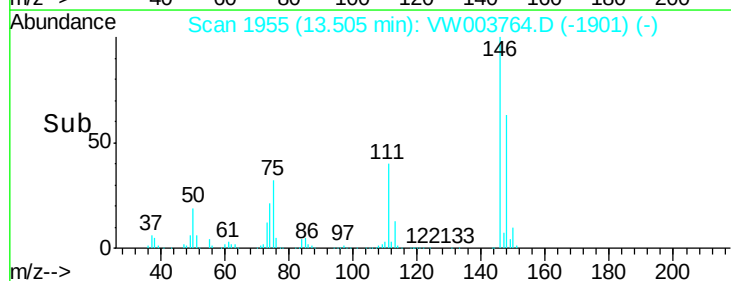
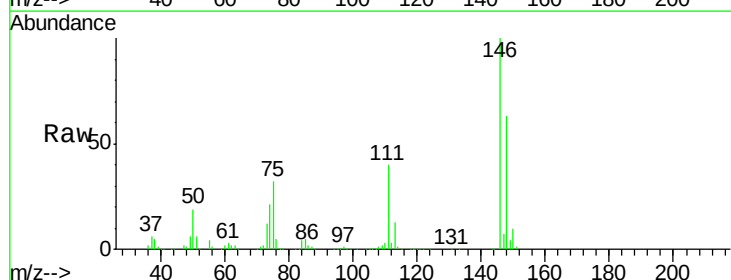
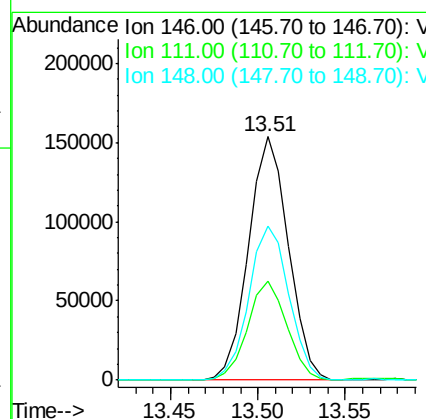
Manual Integrations
APPROVED

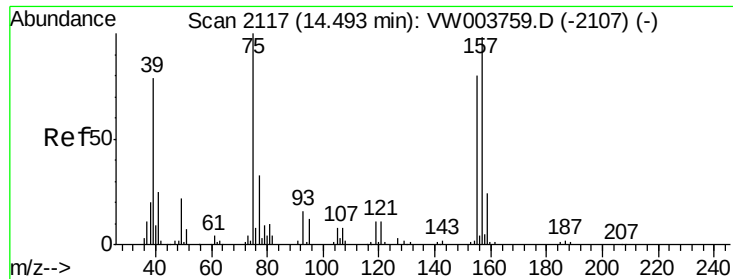
MMDadoda
7/9/2018 12:57:23 PM



#63
1,3-Dichlorobenzene
Concen: 27.03 ug/L
RT: 13.51 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW003764.D
Acq: 07 Jul 2018 13:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	28.3	52.7
148	63.1	45.1	83.7





#66

1,2-Dibromo-3-chloropropane

Concen: 56.22 ug/L

RT: 14.49 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Instrument :

MSVOA_W

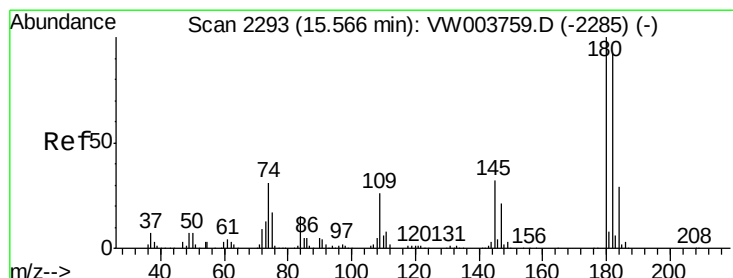
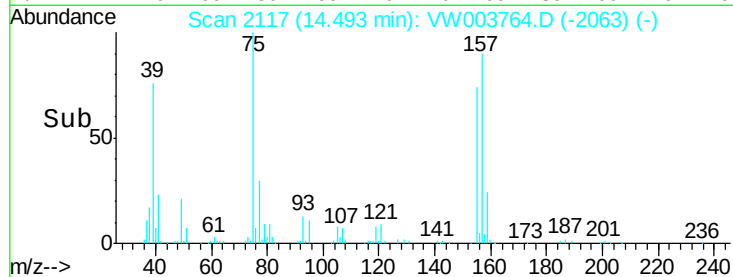
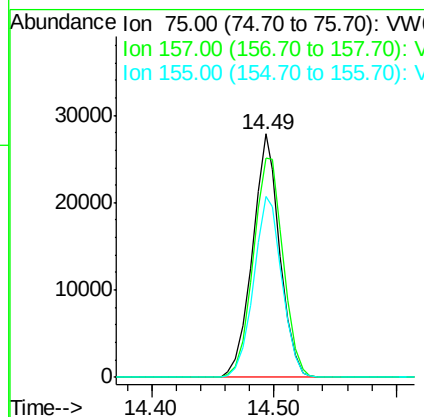
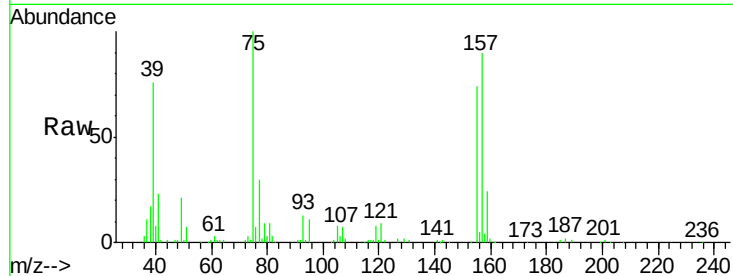
ClientSampled :

X2D24

Tot Ion:	75	Resp:	43077
Ion Ratio	Lower	Upper	
75	100		
157	90.2	78.6	118.0
155	74.3	63.7	95.5

Manual Integrations
APPROVED

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#70

1,2,3-Trichlorobenzene

Concen: 9.52 ug/L

RT: 15.57 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VW003764.D

Acq: 07 Jul 2018 13:19

Tgt Ion:	180	Resp:	50253
Ion Ratio	Lower	Upper	
180	100		
182	98.4	75.8	113.6
145	33.7	25.3	37.9

