

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021320\
 Data File : VW014984.D
 Acq On : 13 Feb 2020 16:56
 Operator : SY/VA
 Sample : MDL03
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 2/14/2020 4:29:09 PM

Quant Time: Feb 14 05:33:59 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM021320SMA.M

Quant Title : SFAM01.0

QLast Update : Fri Feb 14 04:50:37 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	775860	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	722559	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.56	152	293776	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	351451	22.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.96%
7) Chloroethane-d5	2.89	69	266480	22.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.52%
11) 1,1-Dichloroethene-d2	4.02	63	478677	17.08	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	68.32%
21) 2-Butanone-d5	7.07	46	214342	49.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.44%
24) Chloroform-d	7.65	84	564738	22.66	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.64%
26) 1,2-Dichloroethane-d4	8.30	65	353905	24.21	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.84%
32) Benzene-d6	8.27	84	1147211	23.56	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.24%
36) 1,2-Dichloropropane-d6	9.27	67	396009	23.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.60%
41) Toluene-d8	10.32	98	975477	23.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.00%
43) trans-1,3-Dichloropropene-	10.57	79	147588	23.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.80%
47) 2-Hexanone-d5	10.92	63	145038	48.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.40%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	298386	23.88	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.52%
66) 1,2-Dichlorobenzene-d4	13.85	152	269993	24.42	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.68%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	14695	1.907 ug/L	91
3) Chloromethane	2.21	50	27405	1.891 ug/L	97
5) Vinyl chloride	2.36	62	37571	2.014 ug/L #	70
6) Bromomethane	2.78	94	16204	1.915 ug/L	91
8) Chloroethane	2.93	64	18635	1.867 ug/L	99
9) Trichlorofluoromethane	3.26	101	11985	1.626 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	4.06	101	25950m	2.152 ug/L	
12) 1,1-Dichloroethene	4.04	96	24851	2.149 ug/L #	1
13) Acetone	4.13	43	22374	4.922 ug/L	83
14) Carbon disulfide	4.38	76	77070	1.844 ug/L	98
15) Methyl Acetate	4.68	43	14992	1.901 ug/L #	77
16) Methylene chloride	4.92	84	65534	4.571 ug/L	99
17) trans-1,2-Dichloroethene	5.43	96	22040	1.889 ug/L	94
18) Methyl tert-butyl Ether	5.42	73	27057	1.879 ug/L	93
19) 1,1-Dichloroethane	6.21	63	51010	1.957 ug/L	99
20) cis-1,2-Dichloroethene	7.16	96	23048	1.917 ug/L	95
22) 2-Butanone	7.17	43	25852	4.731 ug/L	93

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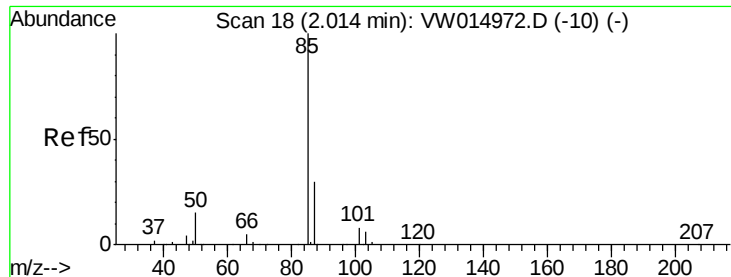
Manual Integrations
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 2/14/2020 4:29:09 PM

Quant Time: Feb 14 05:33:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM021320SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Feb 14 04:50:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	10054	2.061	ug/L	93
25) Chloroform	7.67	83	48699	2.097	ug/L	98
27) 1,2-Dichloroethane	8.40	62	35447	2.077	ug/L	98
29) Cyclohexane	7.96	56	36726	1.559	ug/L	99
30) 1,1,1-Trichloroethane	7.87	97	34645	1.971	ug/L	98
31) Carbon tetrachloride	8.07	117	30797	1.944	ug/L	97
33) Benzene	8.32	78	106810	2.013	ug/L	100
34) Trichloroethene	9.09	95	24774	1.950	ug/L	98
35) Methylcyclohexane	9.34	83	37429	1.708	ug/L	95
37) 1,2-Dichloropropane	9.37	63	29110	1.965	ug/L #	96
38) Bromodichloromethane	9.64	83	32580	1.953	ug/L	94
39) cis-1,3-Dichloropropene	10.07	75	35628	1.797	ug/L	99
40) 4-Methyl-2-pentanone	10.21	43	39721	3.766	ug/L	99
42) Toluene	10.38	91	102472	1.999	ug/L	94
44) trans-1,3-Dichloropropene	10.60	75	32373m	1.969	ug/L	
45) 1,1,2-Trichloroethane	10.79	97	18790	2.091	ug/L	98
46) Tetrachloroethene	10.86	164	16202	1.964	ug/L	91
48) 2-Hexanone	10.97	43	31067	4.042	ug/L	100
49) Dibromochloromethane	11.13	129	18335	1.958	ug/L	87
50) 1,2-Dibromoethane	11.23	107	16144	1.992	ug/L	94
51) Chlorobenzene	11.66	112	58771	1.944	ug/L	99
52) Ethylbenzene	11.73	91	99506	1.782	ug/L	96
53) m,p-Xylene	11.83	106	32700	1.669	ug/L	99
54) o-Xylene	12.16	106	28553	1.552	ug/L	96
55) Styrene	12.18	104	48303	1.523	ug/L	96
57) 1,1,2,2-Tetrachloroethane	12.71	83	25723	2.139	ug/L #	98
59) Bromoform	12.35	173	9097	2.025	ug/L	98
60) Isopropylbenzene	12.46	105	76208	1.657	ug/L	99
61) 1,2,3-Trichloropropane	12.77	75	18697	2.172	ug/L	96
62) 1,3,5-Trimethylbenzene	12.94	105	58442	1.594	ug/L	98
63) 1,2,4-Trimethylbenzene	13.25	105	54753	1.526	ug/L	98
64) 1,3-Dichlorobenzene	13.50	146	36747	1.938	ug/L	97
65) 1,4-Dichlorobenzene	13.58	146	40599	2.078	ug/L	100
67) 1,2-Dichlorobenzene	13.87	146	37761	2.153	ug/L	94
68) 1,2-Dibromo-3-chloropropan	14.48	75	4092	2.273	ug/L #	87
69) 1,3,5-Trichlorobenzene	14.63	180	24253	1.909	ug/L	98
70) 1,2,4-trichlorobenzene	15.13	180	15681	1.647	ug/L	96
71) Naphthalene	15.36	128	13689	1.400	ug/L #	95
72) 1,2,3-Trichlorobenzene	15.55	180	15394	1.744	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 1.907 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampled :

MDL03

Tot Ion: 85 Resp: 14695

Ion Ratio Lower Upper

85 100

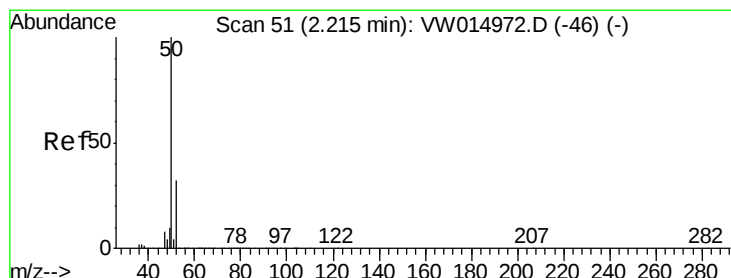
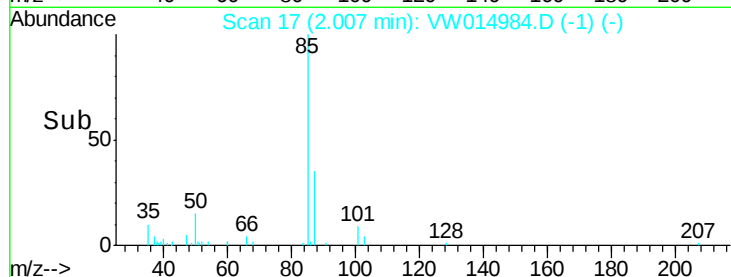
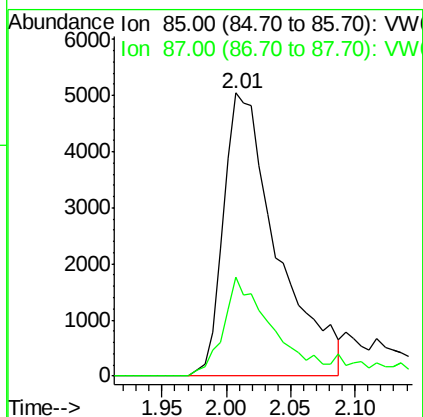
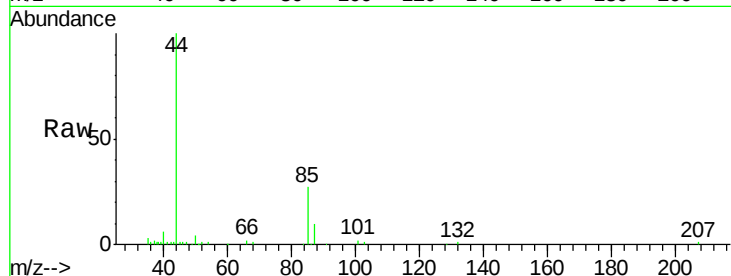
87 31.4 21.5 32.3

Manual Integrations

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#3

Chloromethane

Concen: 1.891 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014984.D

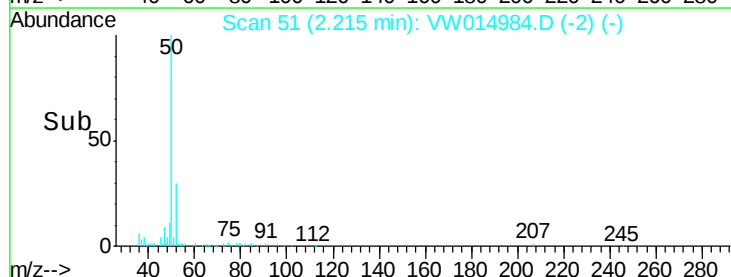
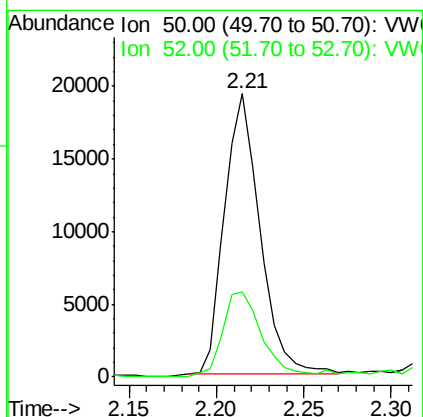
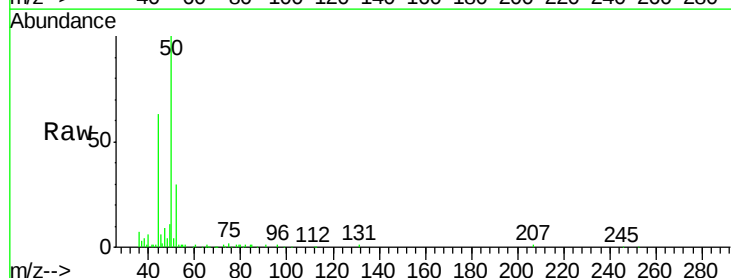
Acq: 13 Feb 2020 16:56

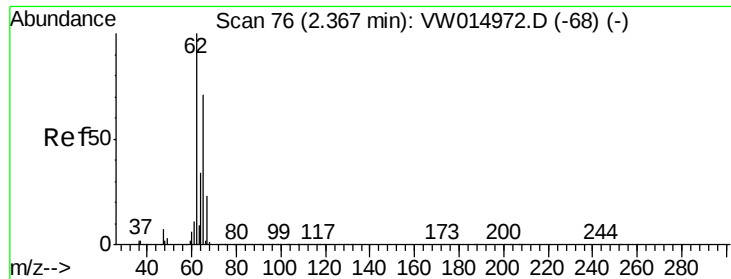
Tgt Ion: 50 Resp: 27405

Ion Ratio Lower Upper

50 100

52 30.0 22.3 41.3





#5

Vinyl chloride

Concen: 2.014 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 37571

Ion Ratio Lower Upper

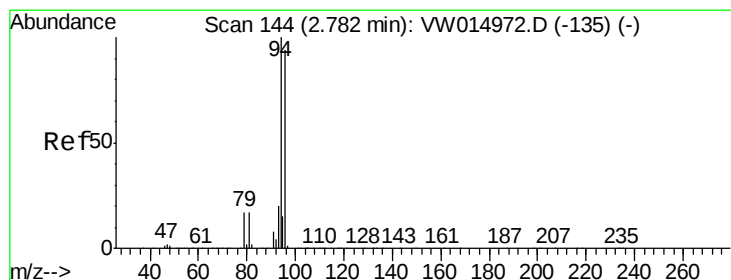
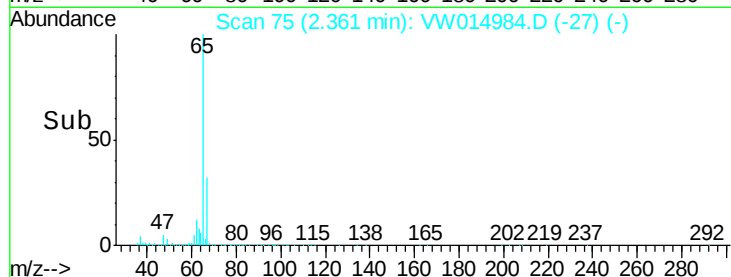
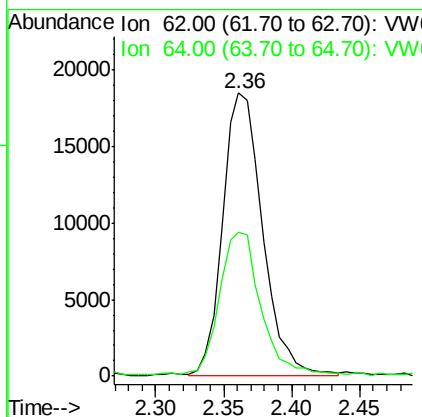
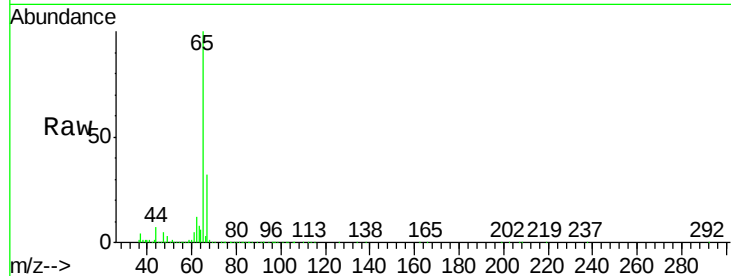
62 100

64 50.8 23.6 43.8#

Manual Integrations
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#6

Bromomethane

Concen: 1.915 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW014984.D

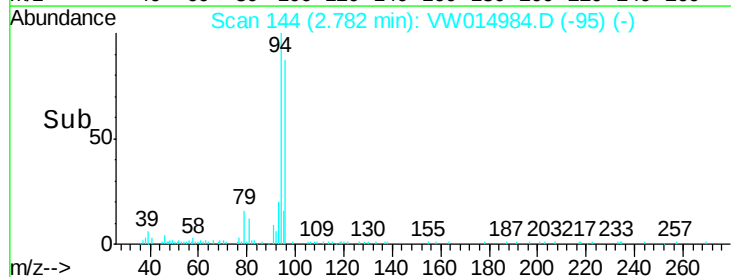
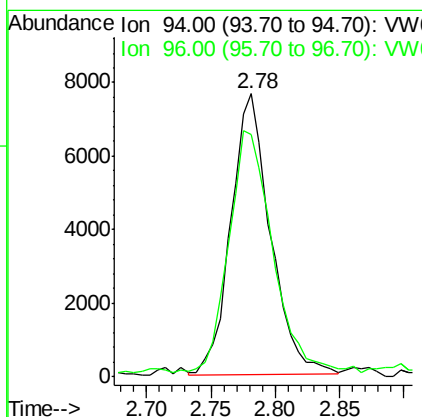
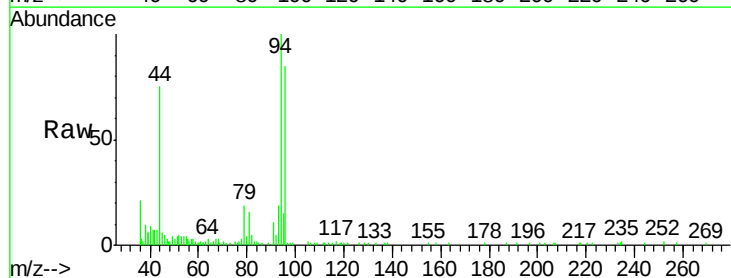
Acq: 13 Feb 2020 16:56

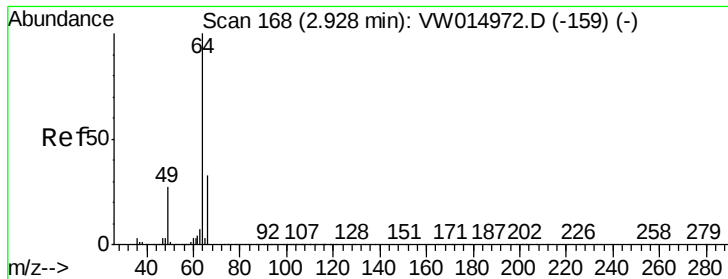
Tgt Ion: 94 Resp: 16204

Ion Ratio Lower Upper

94 100

96 85.5 65.8 122.2





#8

Chloroethane

Concen: 1.867 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 64 Resp: 18635

Ion Ratio Lower Upper

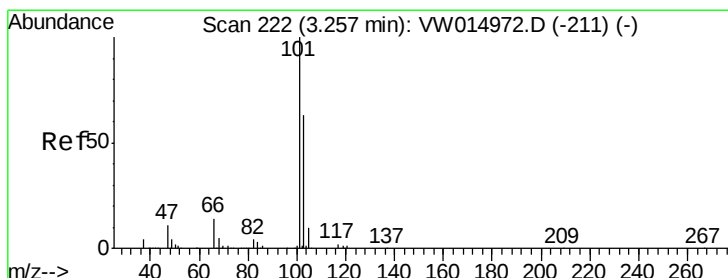
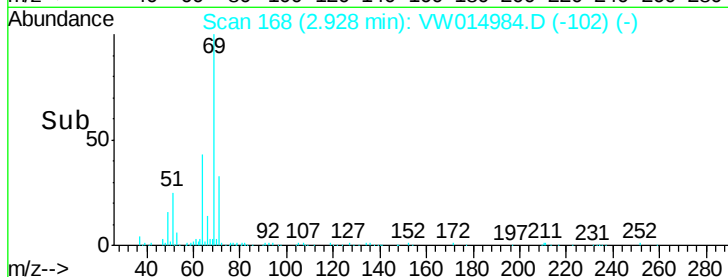
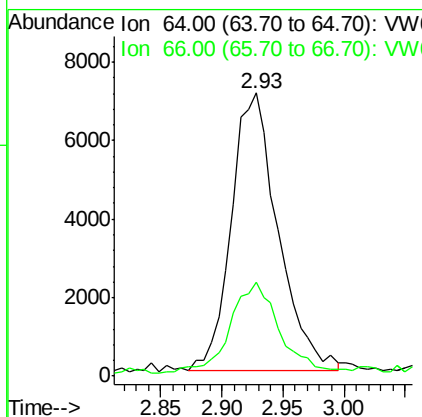
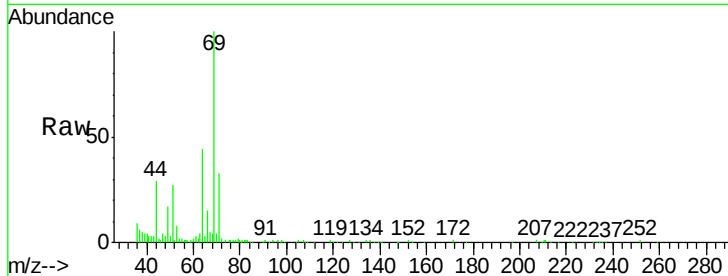
64 100

66 33.3 23.1 42.9

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 1.626 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014984.D

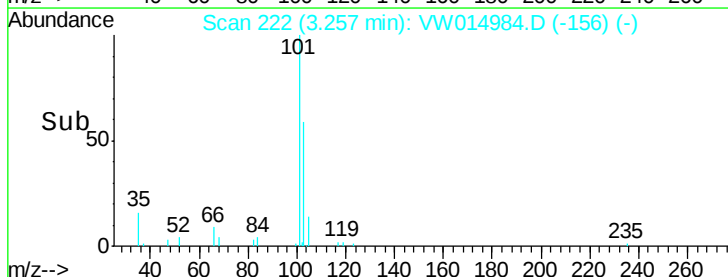
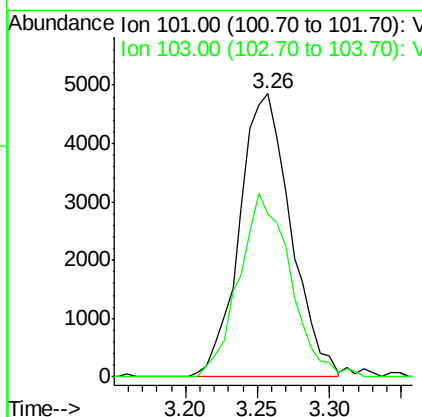
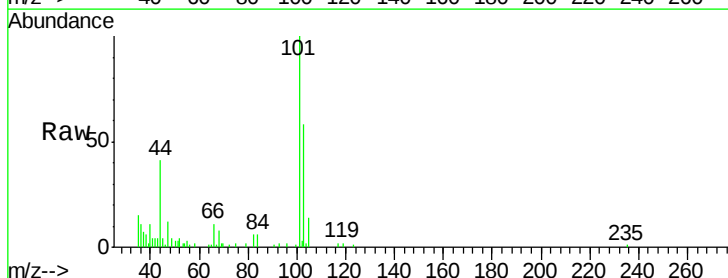
Acq: 13 Feb 2020 16:56

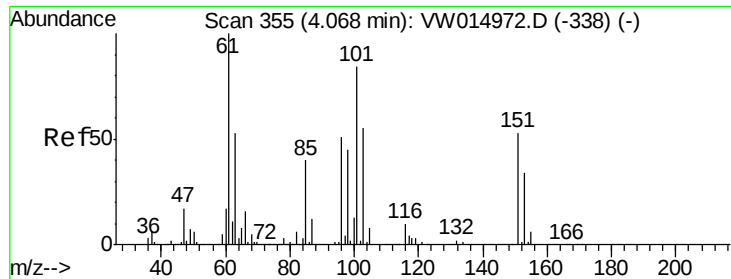
Tgt Ion: 101 Resp: 11985

Ion Ratio Lower Upper

101 100

103 64.4 51.5 77.3





#10

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

Concen: 2.152 ug/L m

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

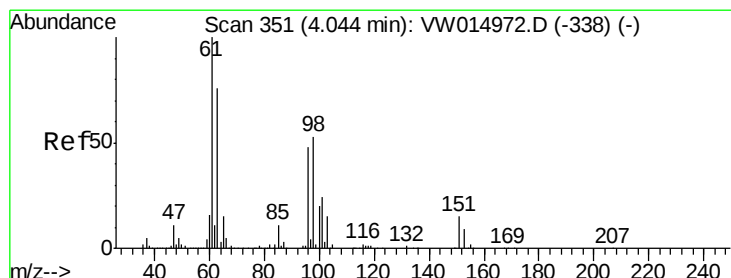
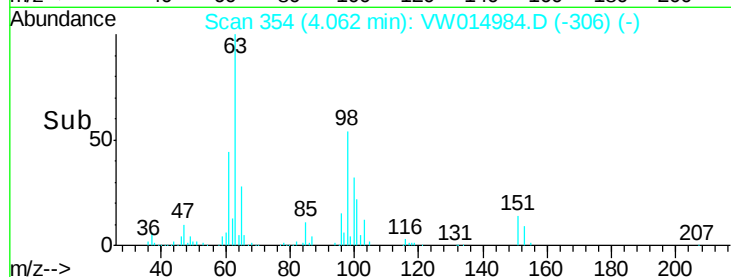
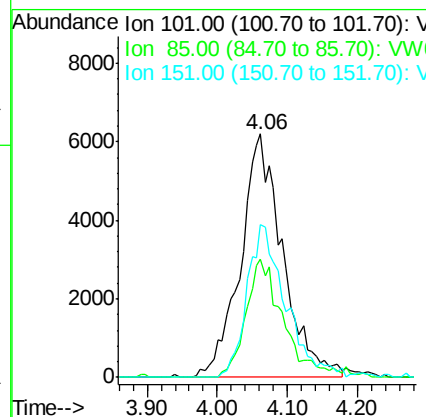
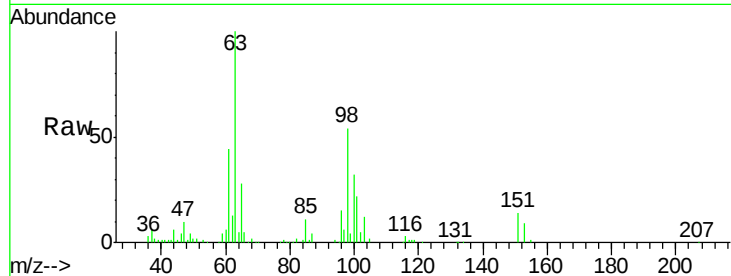
ClientSampled :

MDL03

Tot Ion	Ratio	Resp	Lower	Upper
101	100	25950		
85	31.7		36.5	54.7#
151	54.8		50.2	75.4

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#12

1,1-Dichloroethene

Concen: 2.149 ug/L

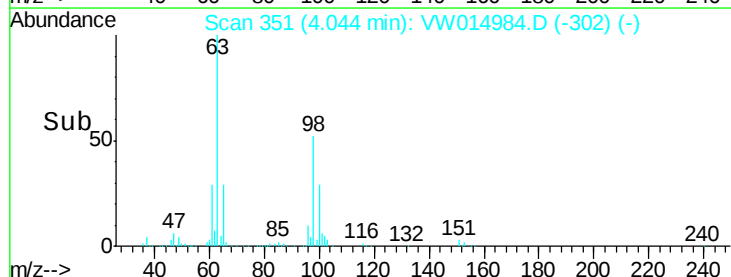
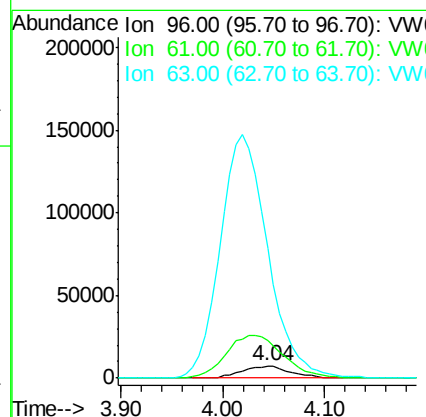
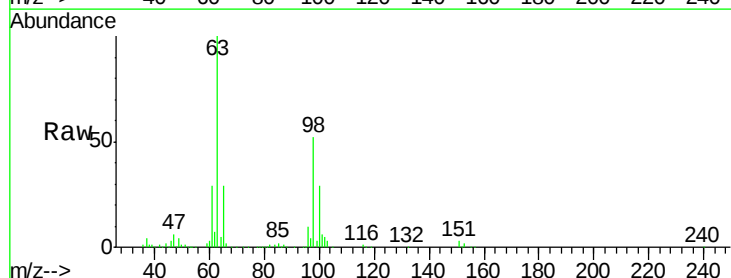
RT: 4.04 min Scan# 351

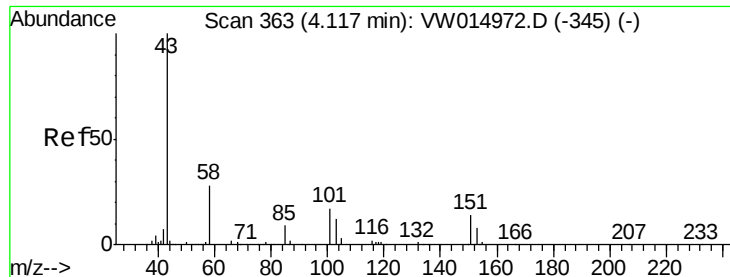
Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	24851		
61	300.2		147.0	273.0#
63	1039.4		113.4	210.6#





#13

Acetone

Concen: 4.922 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 22374

Ion Ratio Lower Upper

43 100

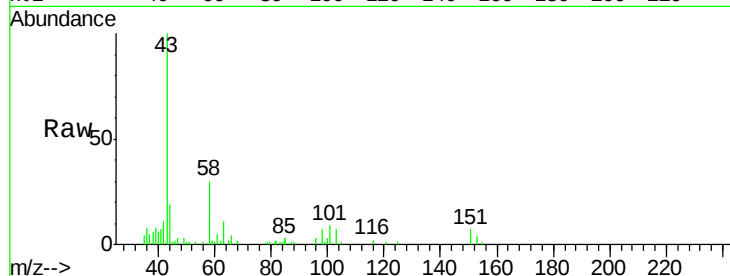
58 18.2 0.0 54.6

Manual Integrations

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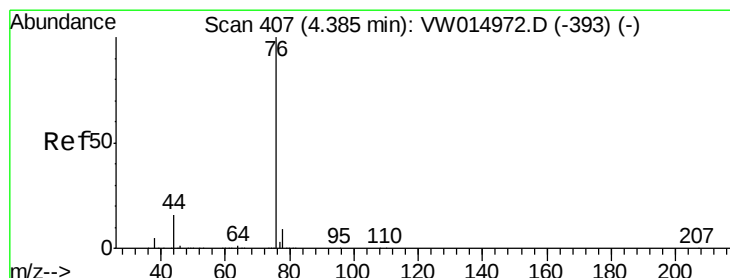
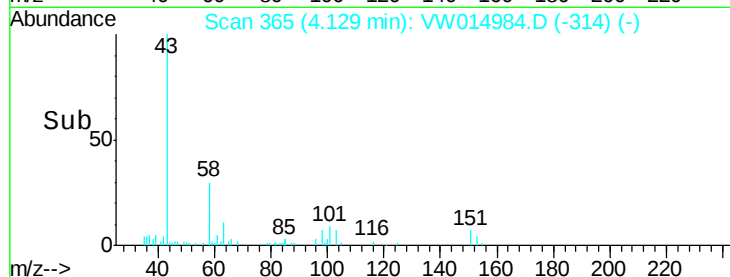
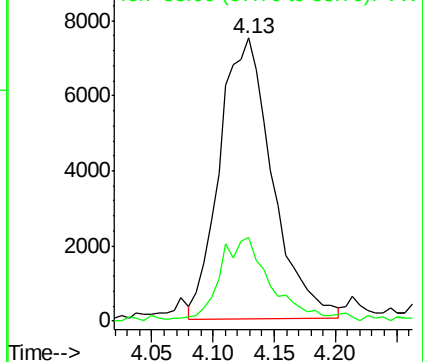
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.844 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014984.D

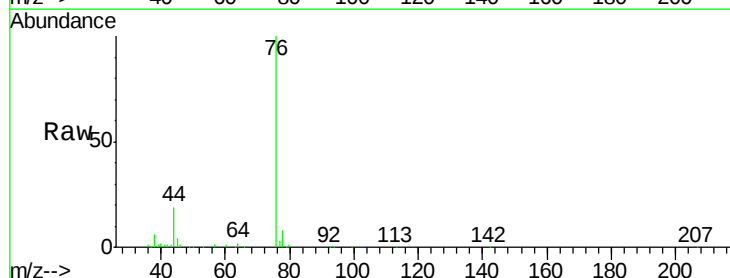
Acq: 13 Feb 2020 16:56

Tgt Ion: 76 Resp: 77070

Ion Ratio Lower Upper

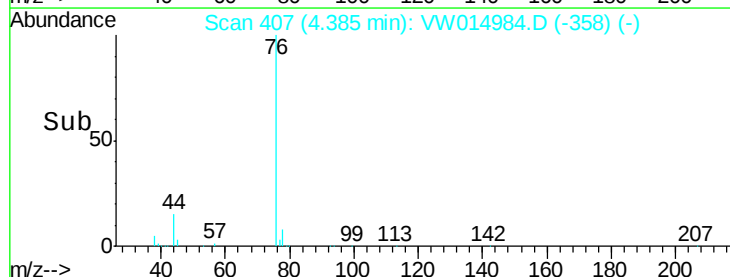
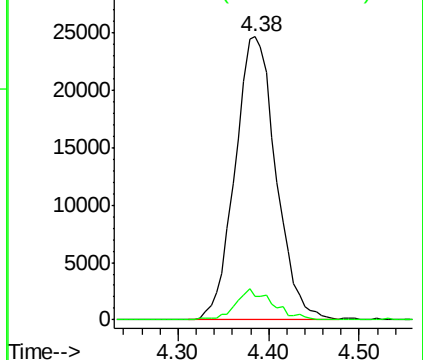
76 100

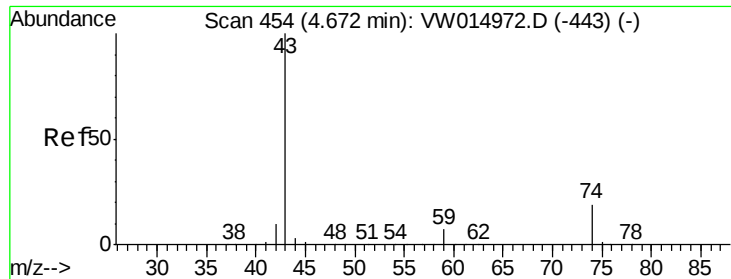
78 8.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 1.901 ug/L

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampled :

MDL03

Tot Ion: 43 Resp: 14992

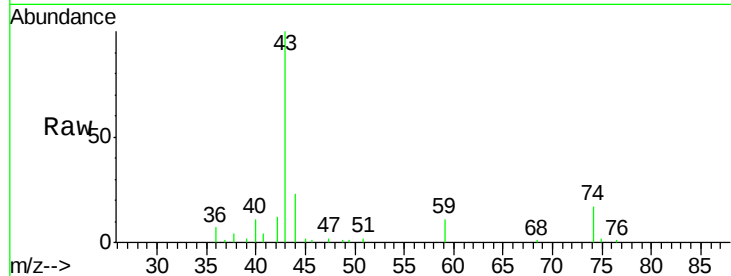
Ion Ratio Lower Upper

43 100

74 8.1 14.6 21.8#

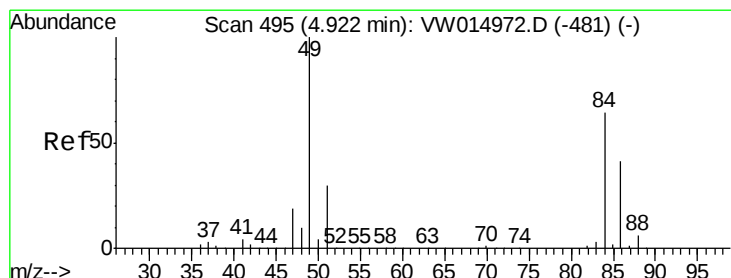
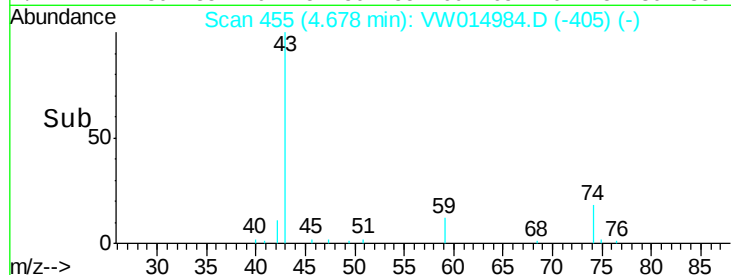
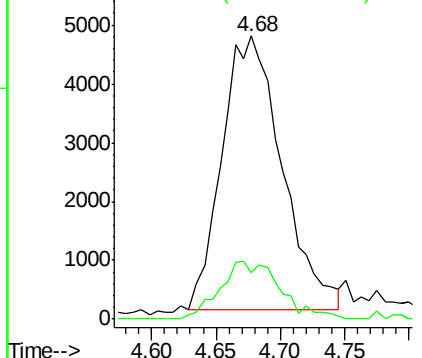
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 4.571 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

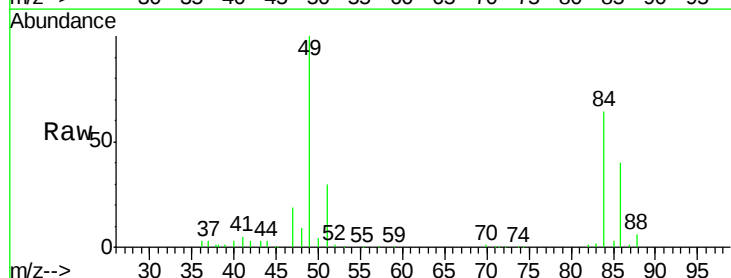
Tgt Ion: 84 Resp: 65534

Ion Ratio Lower Upper

84 100

86 61.8 44.4 82.4

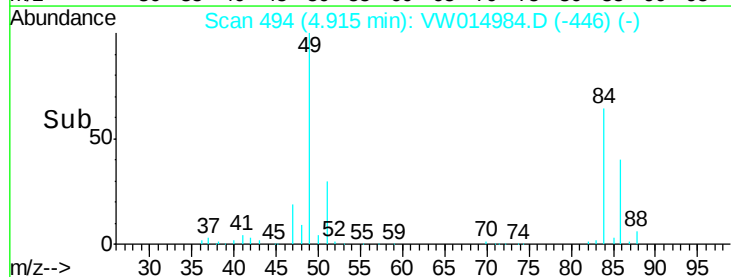
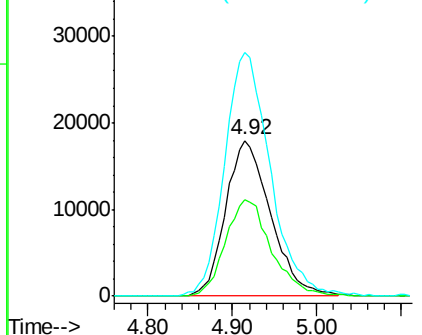
49 156.3 109.0 202.4

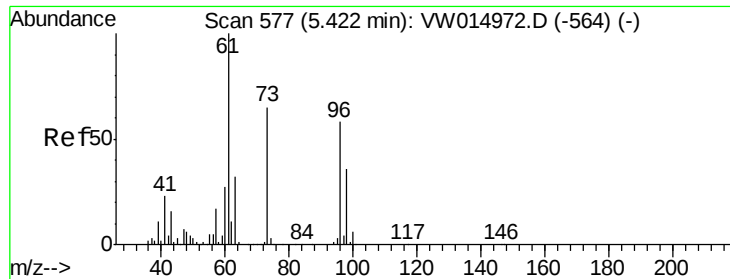


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 86.00 (85.70 to 86.70): VW

Ion 49.00 (48.70 to 49.70): VW





#17

trans-1,2-Dichloroethene

Concen: 1.889 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

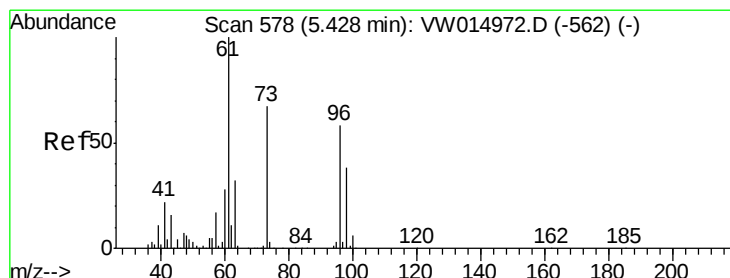
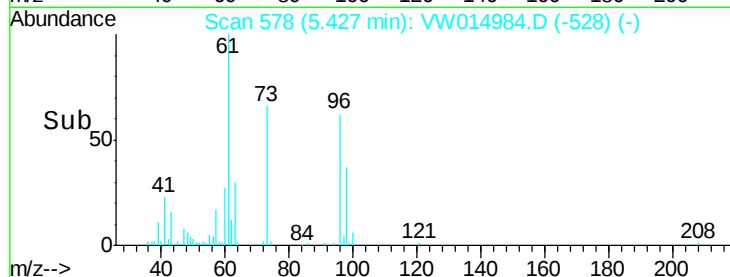
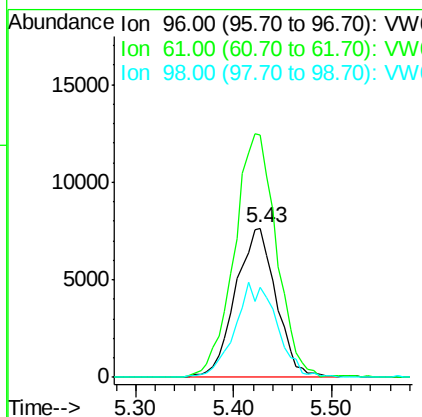
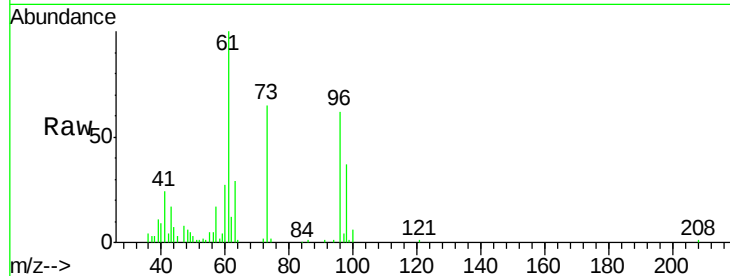
ClientSampleId :

MDL03

Tot Ion:	96	Resp:	22040
Ion	Ratio	Lower	Upper
96	100		
61	162.5	120.1	223.1
98	60.2	43.8	81.3

Manual Integrations
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#18

Methyl tert-butyl Ether

Concen: 1.879 ug/L

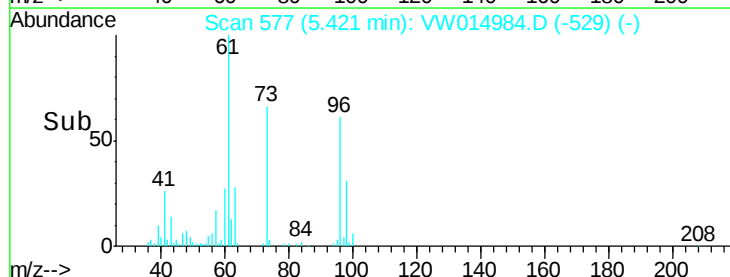
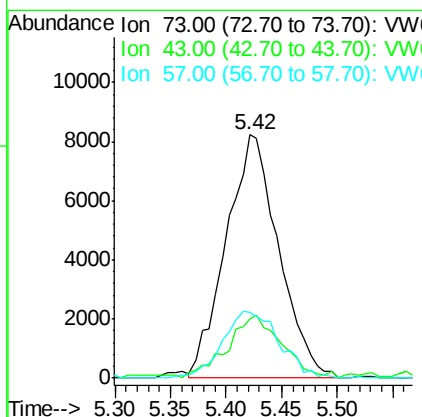
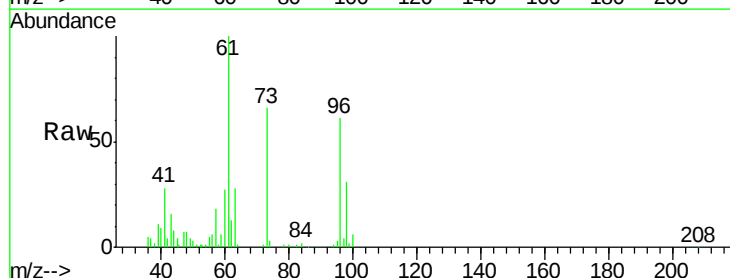
RT: 5.42 min Scan# 577

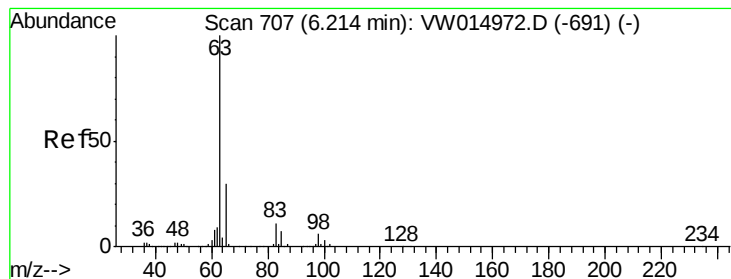
Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Tgt Ion:	73	Resp:	27057
Ion	Ratio	Lower	Upper
73	100		
43	20.2	19.6	29.4
57	29.3	21.0	31.4





#19

1,1-Dichloroethane

Concen: 1.957 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

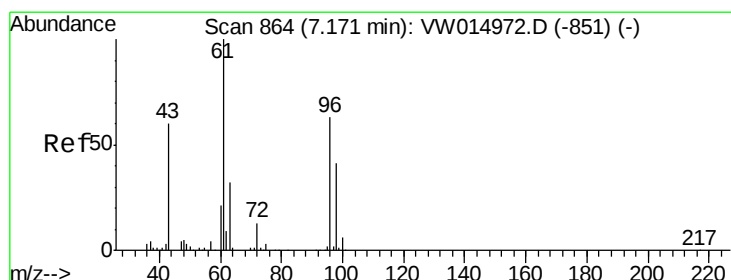
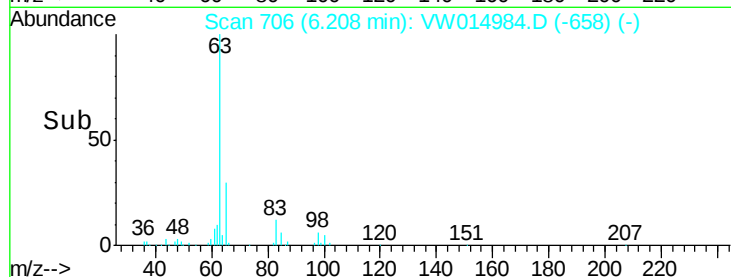
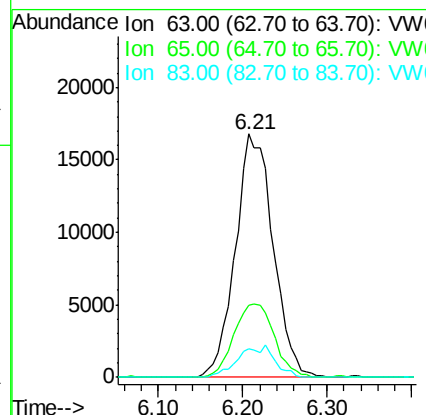
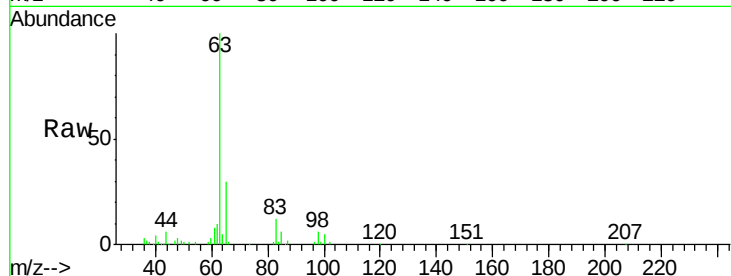
ClientSampleId :

MDL03

Tot Ion:	63	Resp:	51010
Ion	Ratio	Lower	Upper
63	100		
65	29.6	20.9	38.7
83	11.5	7.8	14.6

Manual Integrations
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#20

cis-1,2-Dichloroethene

Concen: 1.917 ug/L

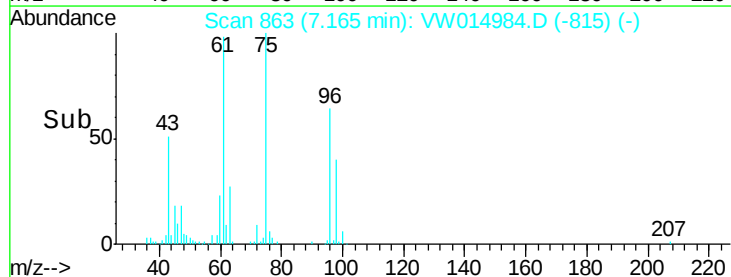
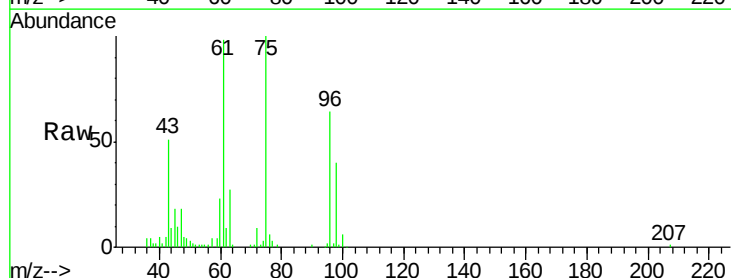
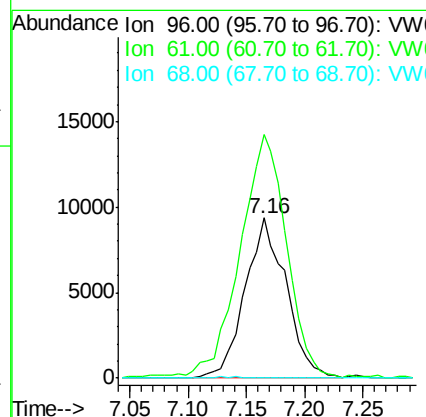
RT: 7.16 min Scan# 863

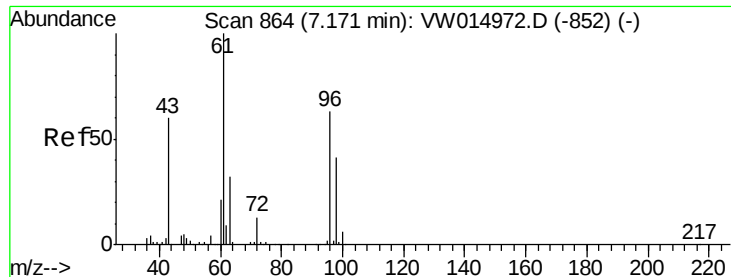
Delta R.T. -0.01 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Tgt Ion:	96	Resp:	23048
Ion	Ratio	Lower	Upper
96	100		
61	152.2	111.5	207.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.731 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 25852

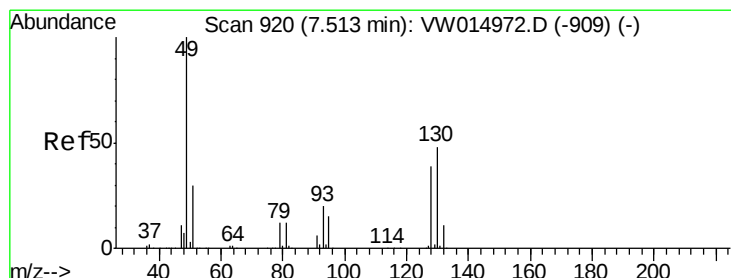
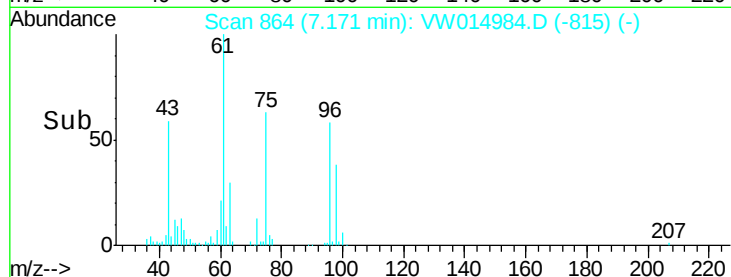
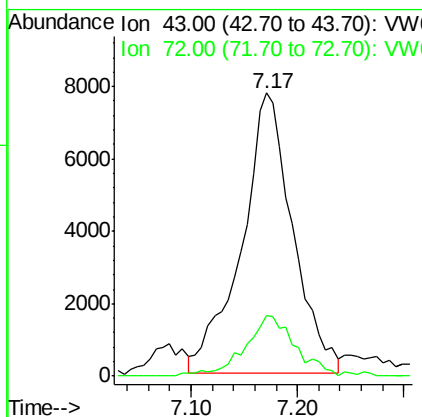
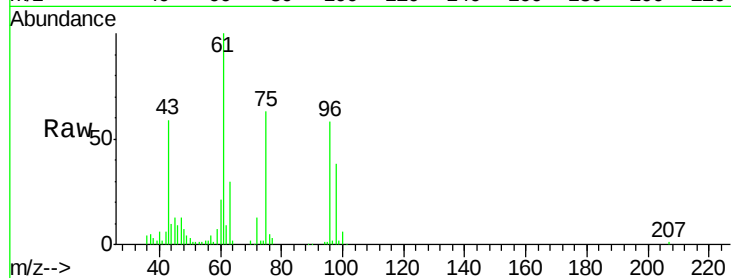
Ion Ratio Lower Upper

43 100

72 18.8 11.1 33.1

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#23

Bromochloromethane

Concen: 2.061 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Tgt Ion: 128 Resp: 10054

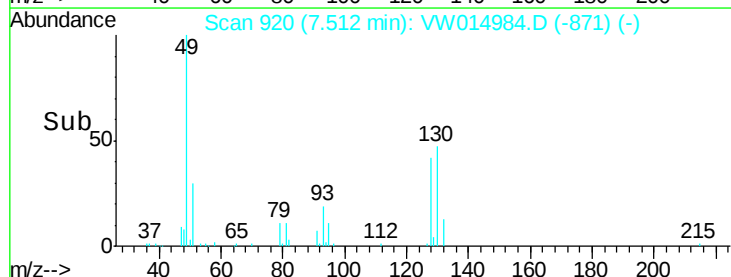
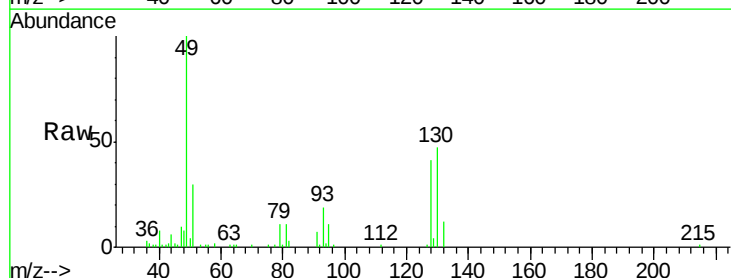
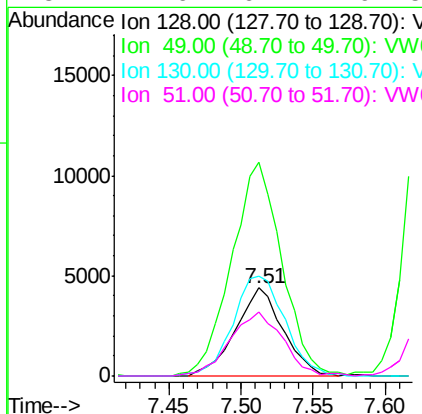
Ion Ratio Lower Upper

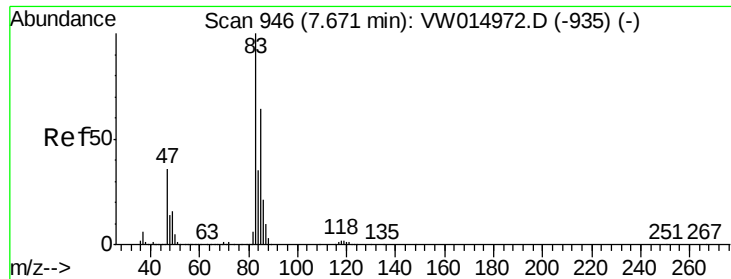
128 100

49 242.1 179.0 332.4

130 112.9 85.5 158.7

51 72.6 61.7 92.5





#25

Chloroform

Concen: 2.097 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 83 Resp: 48699

Ion Ratio Lower Upper

83 100

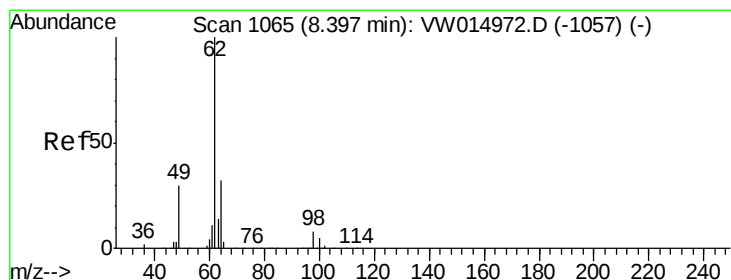
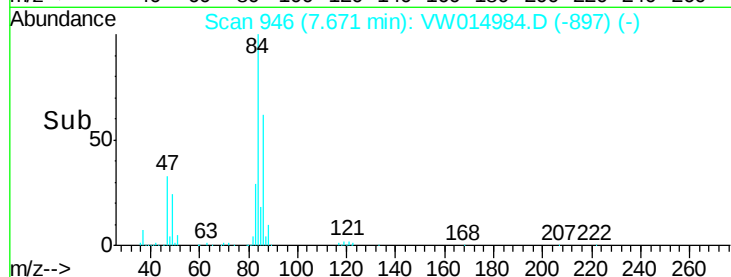
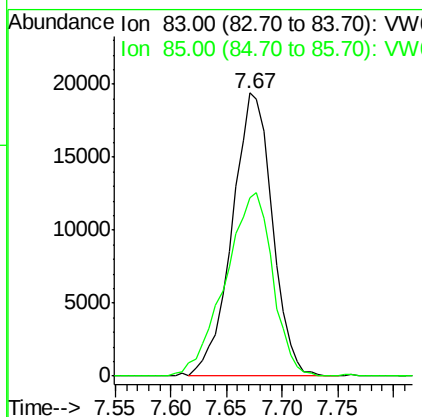
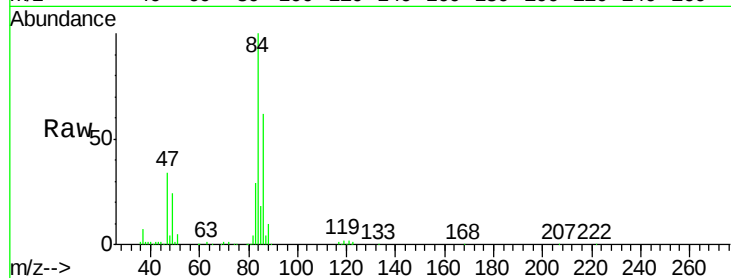
85 63.1 45.1 83.7

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 2.077 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014984.D

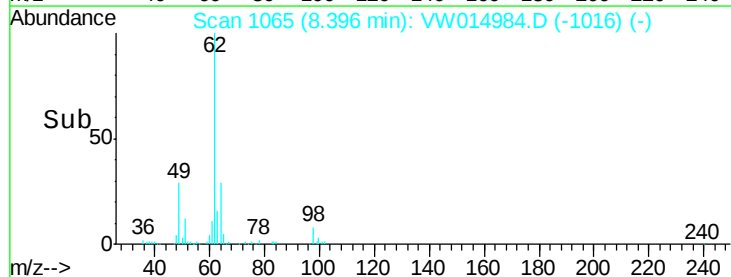
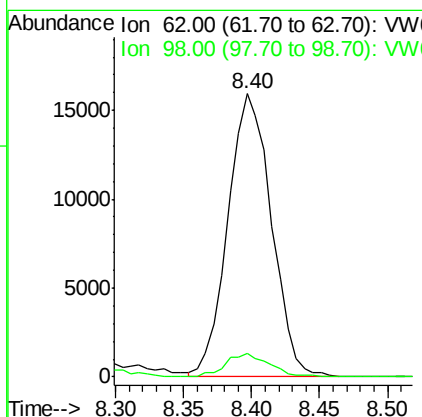
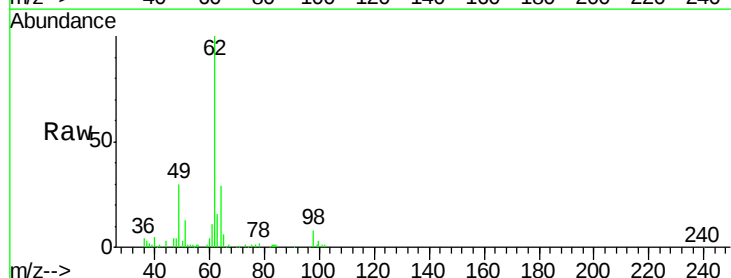
Acq: 13 Feb 2020 16:56

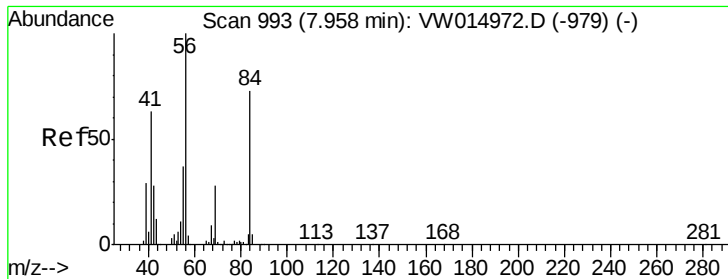
Tgt Ion: 62 Resp: 35447

Ion Ratio Lower Upper

62 100

98 8.4 6.2 9.4





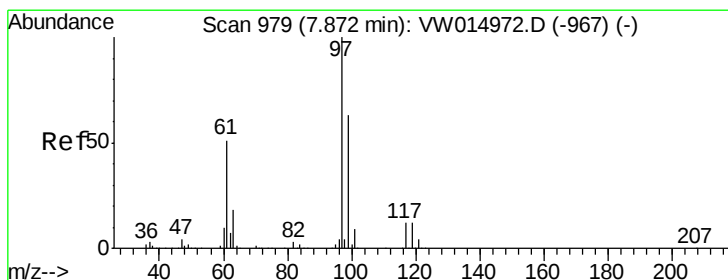
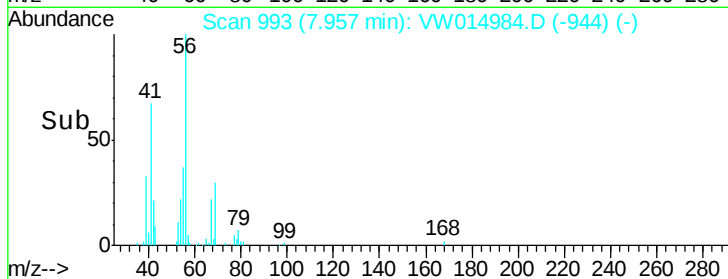
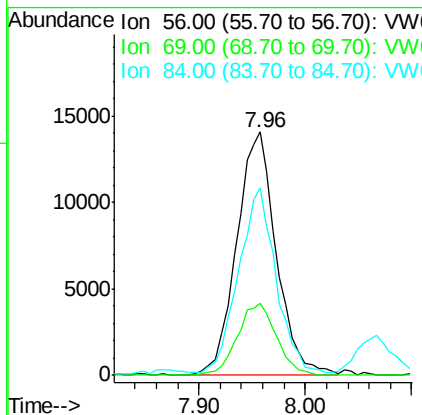
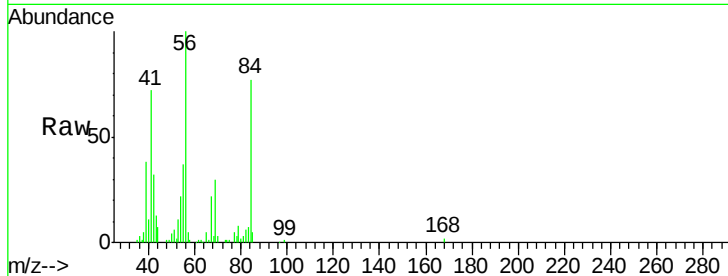
#29
Cyclohexane
Concen: 1.559 ug/L
RT: 7.96 min Scan# 993
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampled :
MDL03

Tot Ion	56	Resp	36726
Ion	Ratio	Lower	Upper
56	100		
69	29.2	22.0	33.0
84	72.8	57.8	86.6

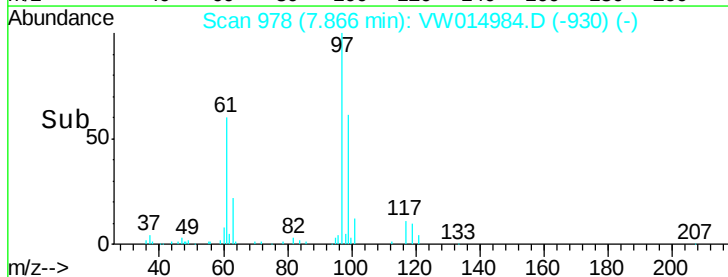
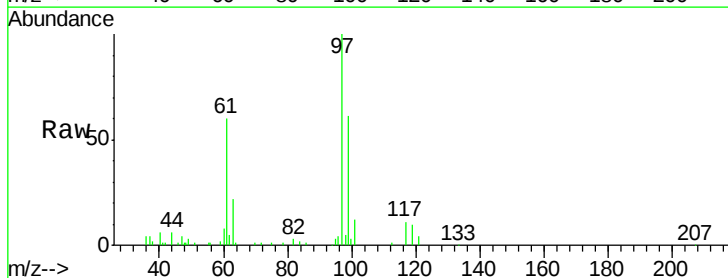
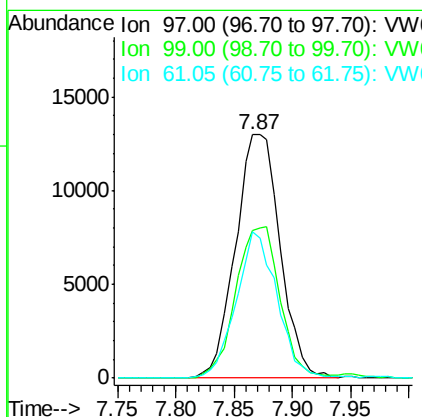
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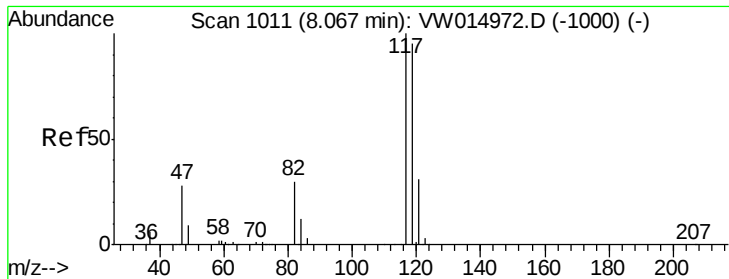
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 1.971 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion	97	Resp	34645
Ion	Ratio	Lower	Upper
97	100		
99	61.7	50.6	75.8
61	55.0	42.7	64.1





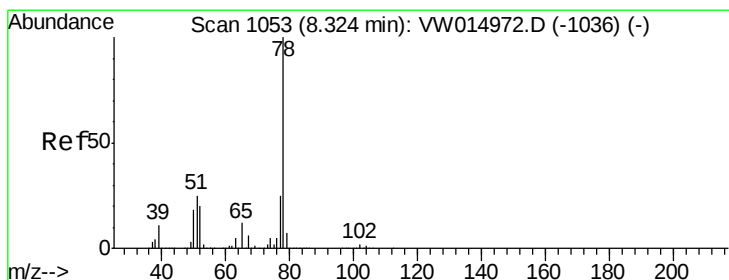
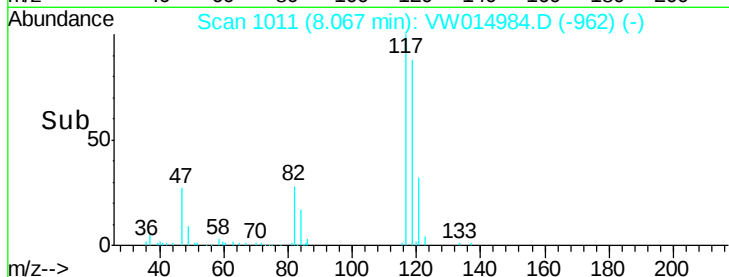
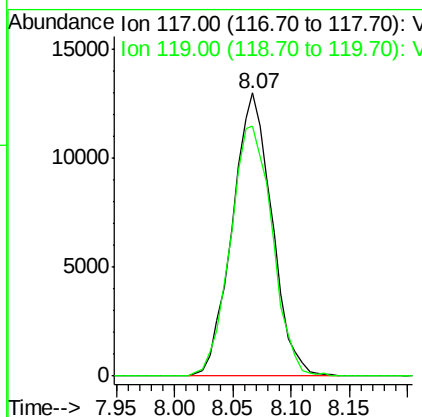
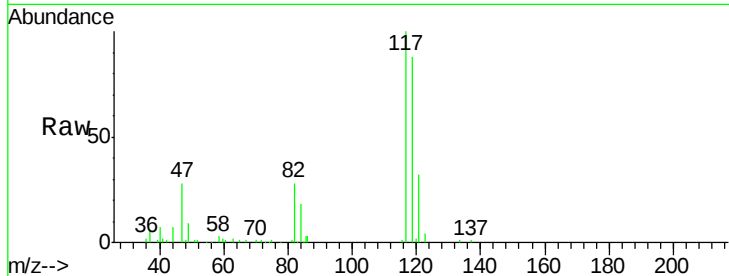
#31
Carbon tetrachloride
Concen: 1.944 ug/L
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampleId :
MDL03

Tot Ion:117 Resp: 30797
Ion Ratio Lower Upper
117 100
119 93.1 76.6 114.8

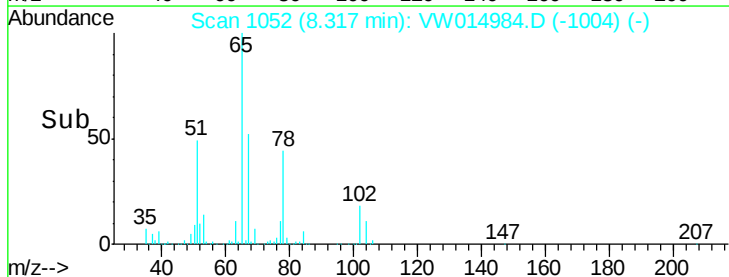
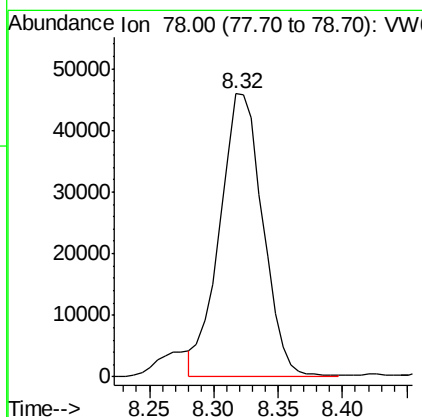
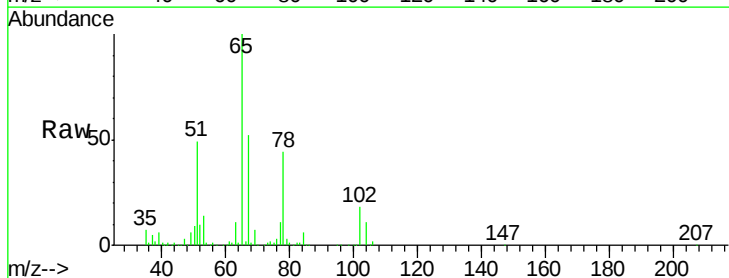
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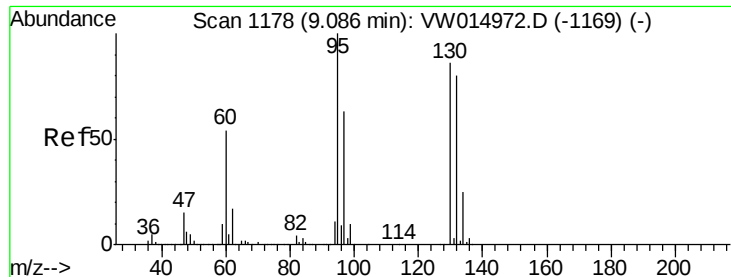
MMDadoda
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#33
Benzene
Concen: 2.013 ug/L
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion: 78 Resp: 106810





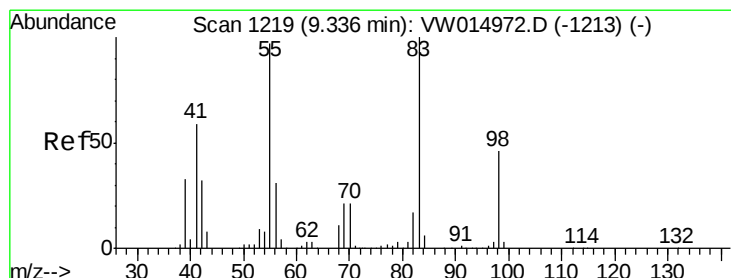
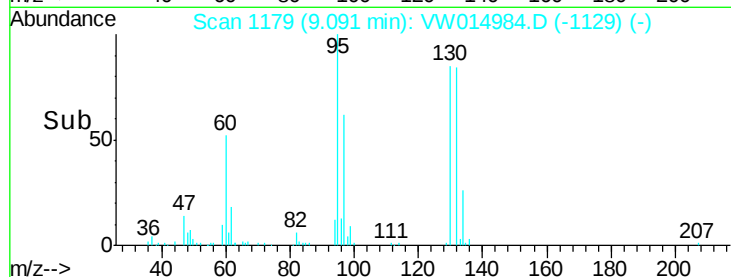
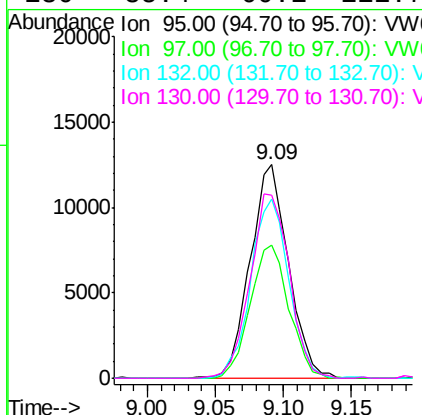
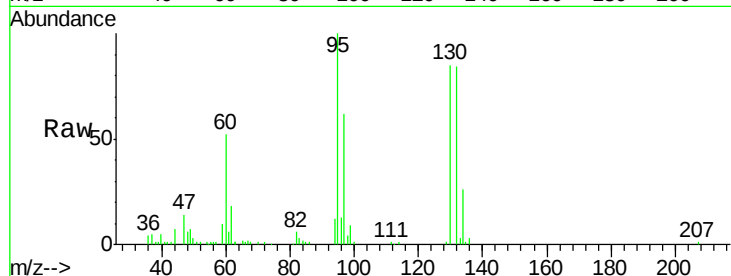
#34
 Trichloroethene
 Concen: 1.950 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
95	100		
97	62.4	44.2	82.0
132	84.1	56.1	104.3
130	85.4	60.1	111.7

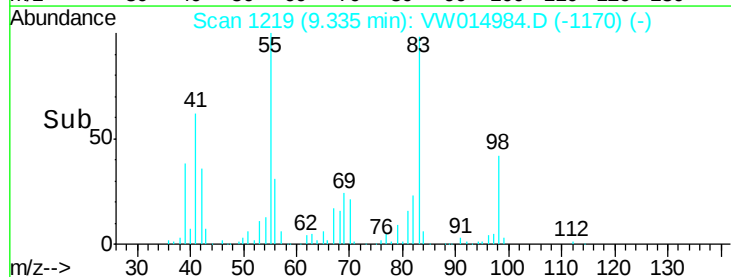
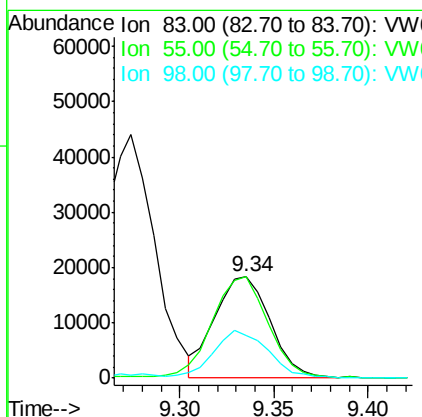
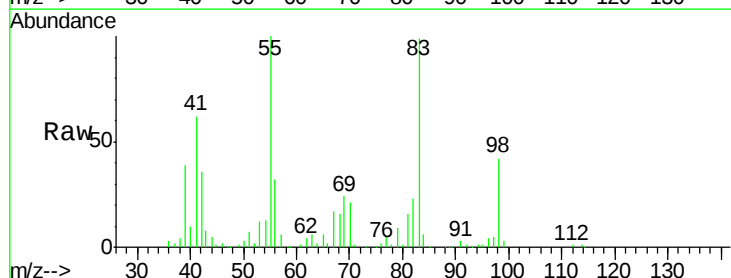
Manual Integrations
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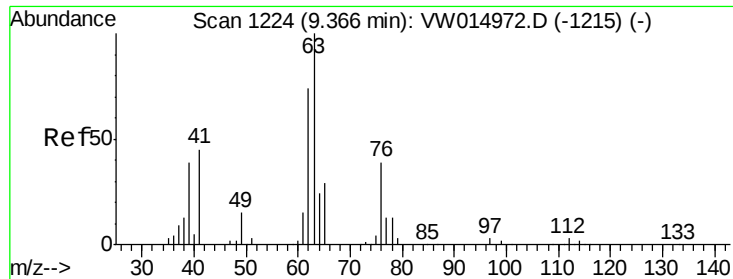
MMDadoda
 2/14/2020 4:29:09 PM



#35
 Methylcyclohexane
 Concen: 1.708 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
83	100		
55	101.4	76.3	114.5
98	46.5	36.4	54.6





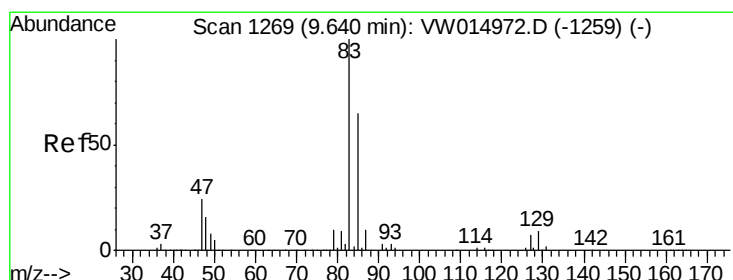
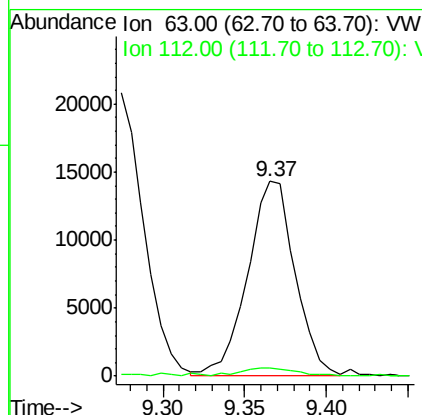
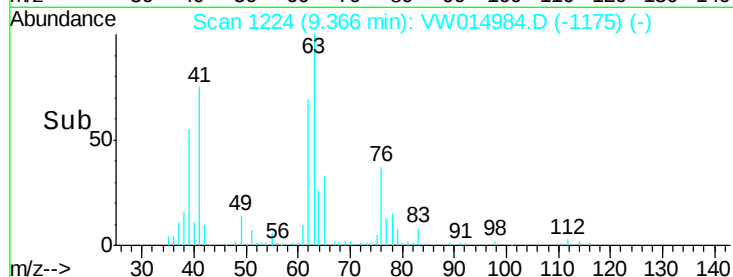
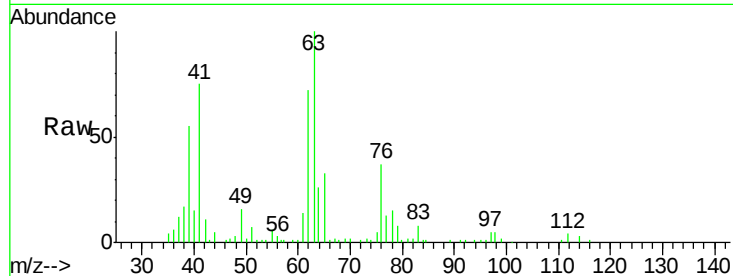
#37
 1,2-Dichloropropane
 Concen: 1.965 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tot Ion: 63 Resp: 29110
 Ion Ratio Lower Upper
 63 100
 112 4.6 2.6 4.0#

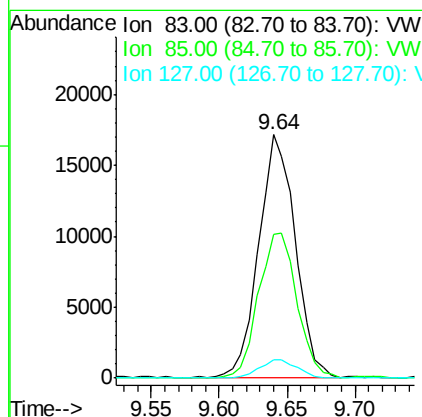
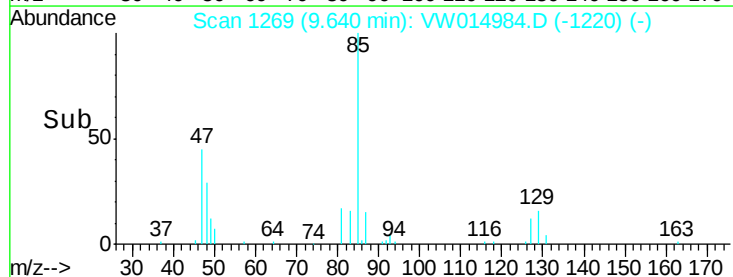
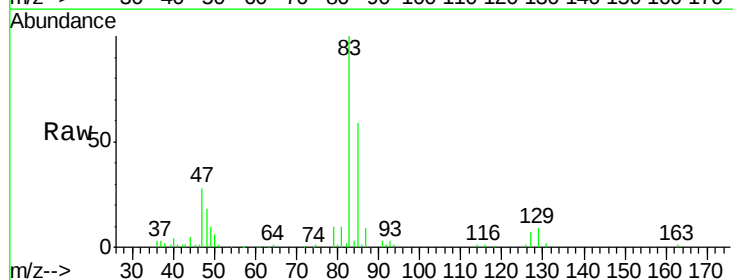
Manual Integrations
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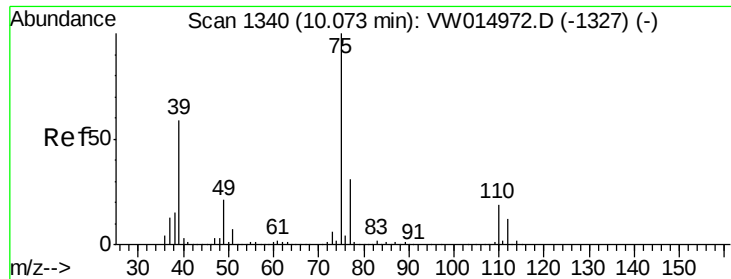
MMDadoda
 2/14/2020 4:29:09 PM



#38
 Bromodichloromethane
 Concen: 1.953 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion: 83 Resp: 32580
 Ion Ratio Lower Upper
 83 100
 85 59.3 45.2 84.0
 127 7.3 5.5 8.3





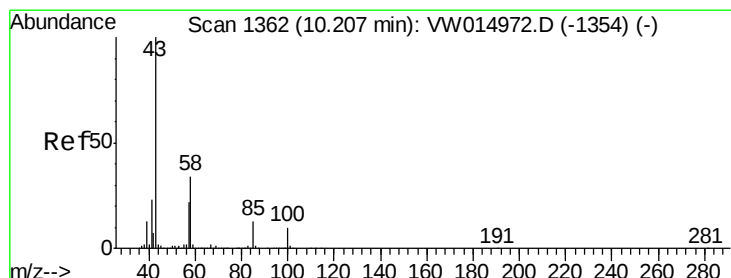
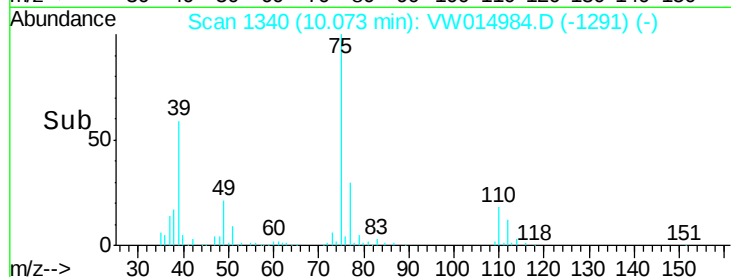
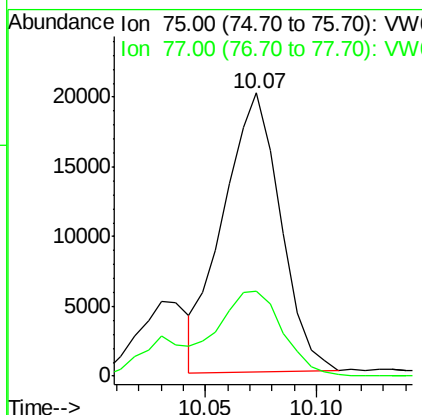
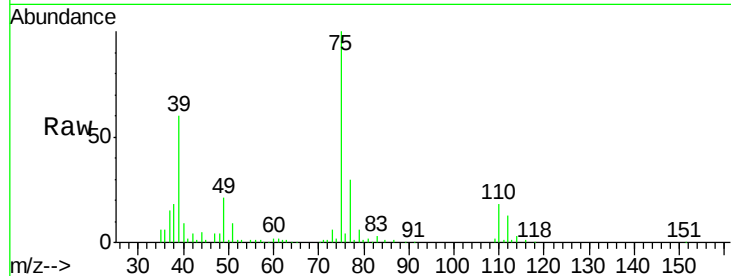
#39
 cis-1,3-Dichloropropene
 Concen: 1.797 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 35628
 Ion Ratio Lower Upper
 75 100
 77 30.2 21.6 40.2

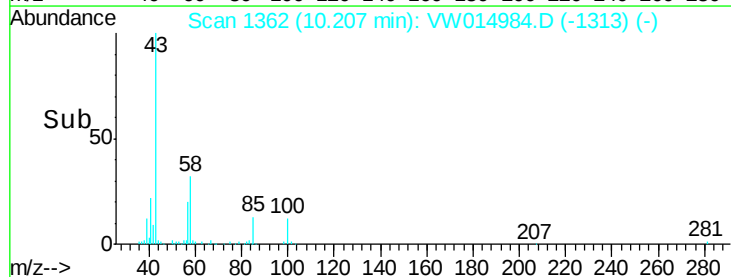
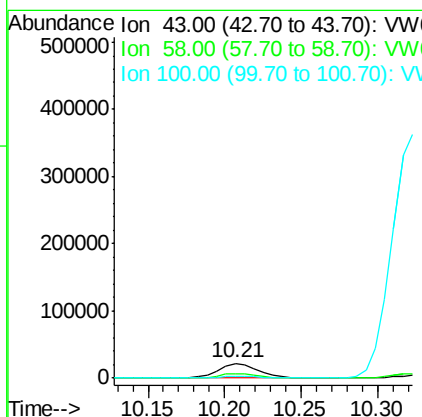
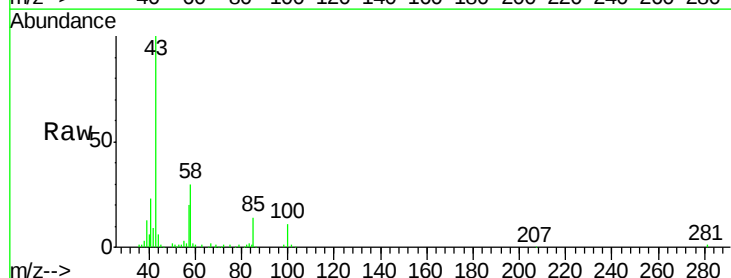
Manual Integrations
 APPROVED

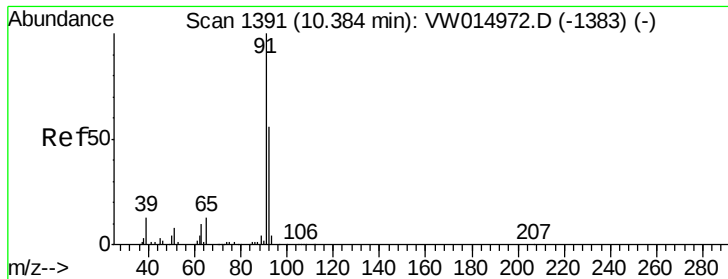
MMDadoda
 2/14/2020 4:29:09 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.766 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion: 43 Resp: 39721
 Ion Ratio Lower Upper
 43 100
 58 34.3 27.7 41.5
 100 10.6 8.6 13.0





#42

Toluene

Concen: 1.999 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 102472

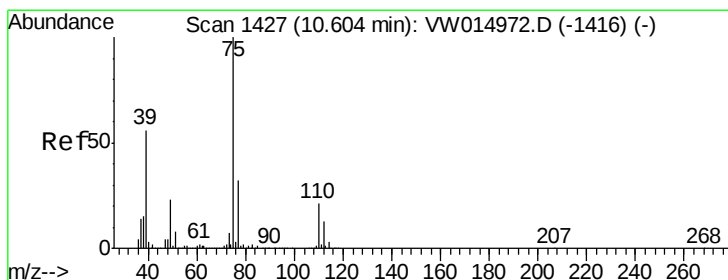
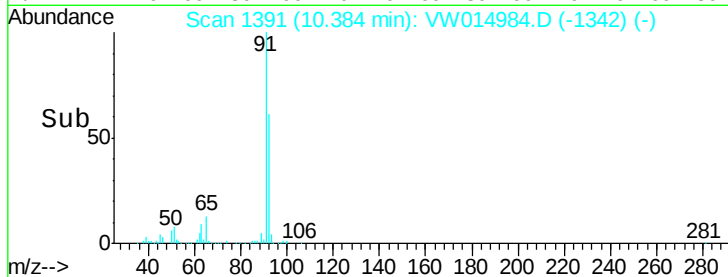
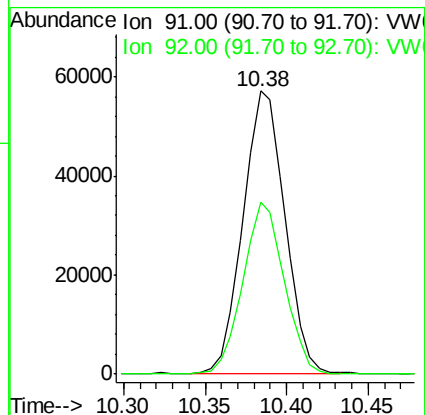
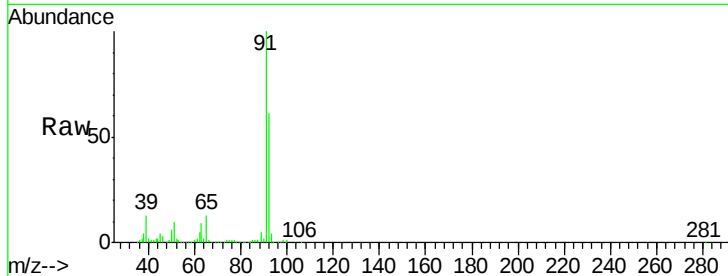
Ion Ratio Lower Upper

91 100

92 60.6 39.5 73.3

Manual Integrations
APPROVED

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#44

trans-1,3-Dichloropropene

Concen: 1.969 ug/L m

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014984.D

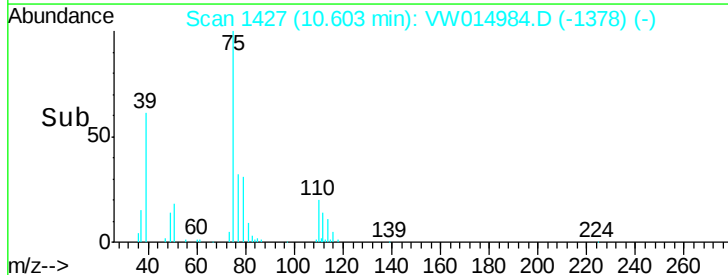
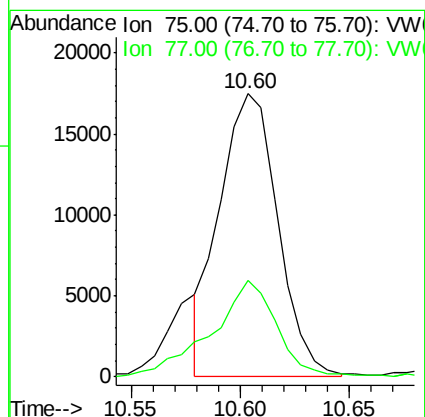
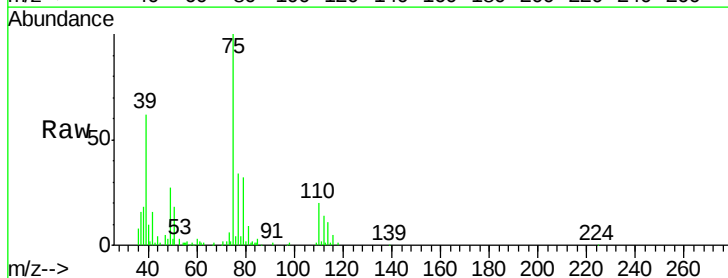
Acq: 13 Feb 2020 16:56

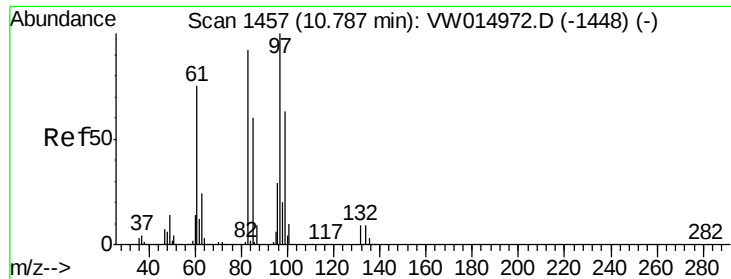
Tgt Ion: 75 Resp: 32373

Ion Ratio Lower Upper

75 100

77 33.9 22.7 42.1





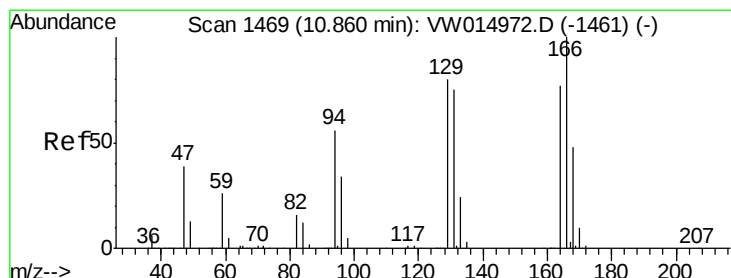
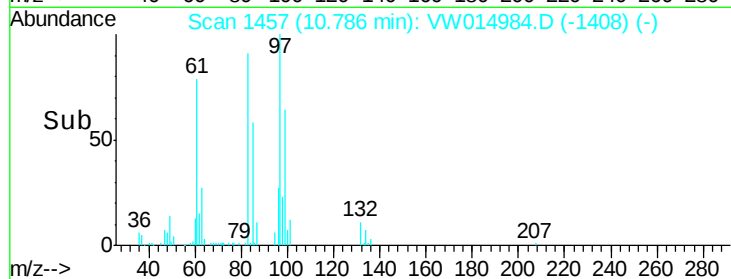
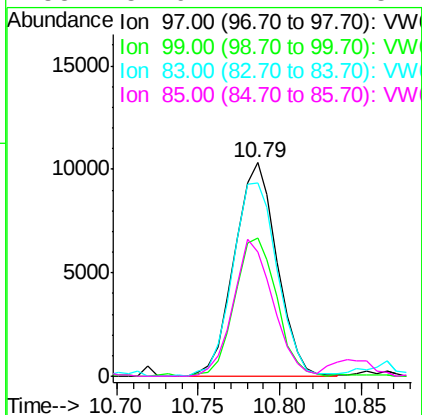
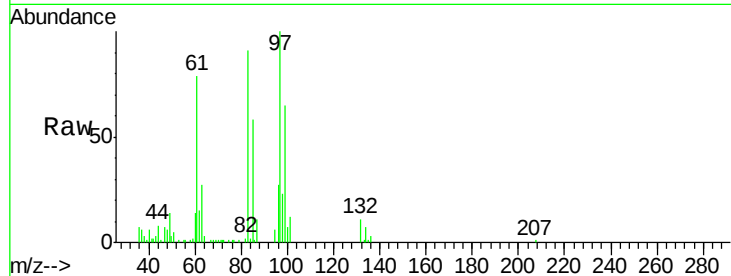
#45
 1,1,2-Trichloroethane
 Concen: 2.091 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.6	44.2	82.0
83	90.5	64.1	119.1
85	57.9	42.1	78.1

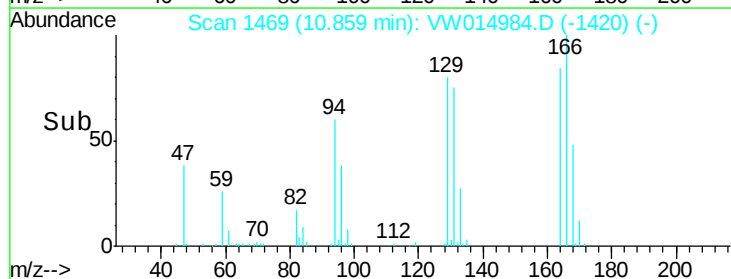
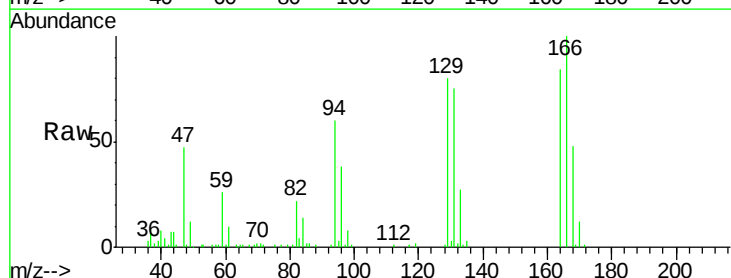
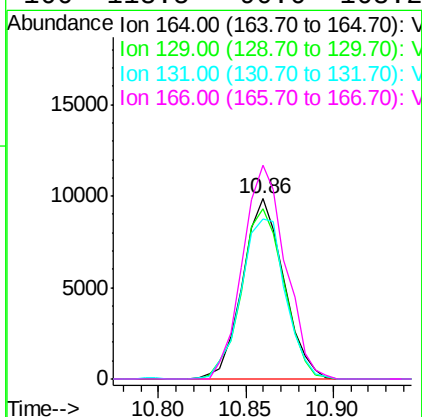
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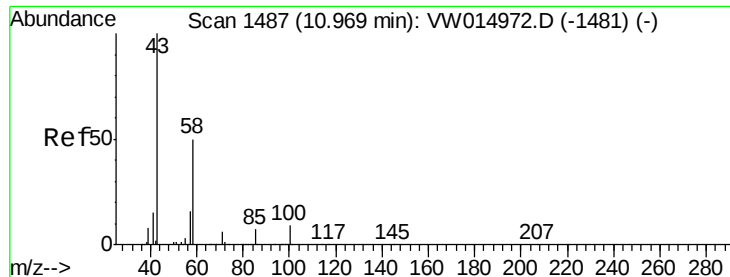
MMDadoda
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#46
 Tetrachloroethene
 Concen: 1.964 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
164	100		
129	94.8	72.2	134.2
131	88.6	68.1	126.5
166	118.5	90.6	168.2





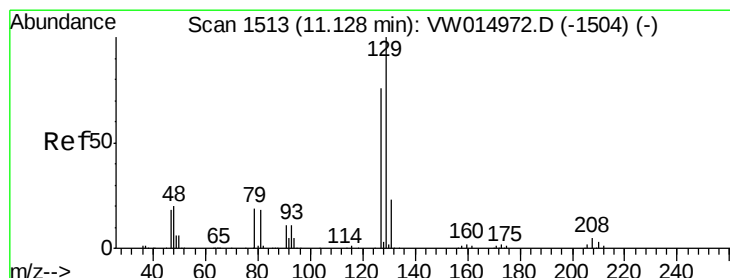
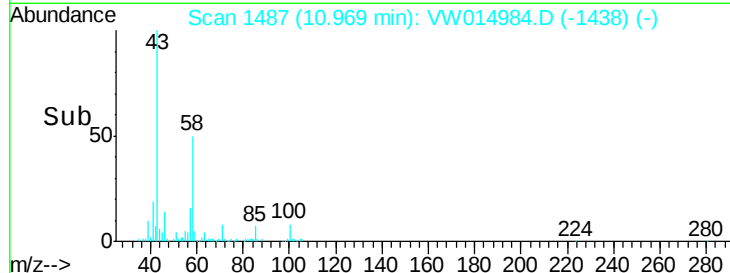
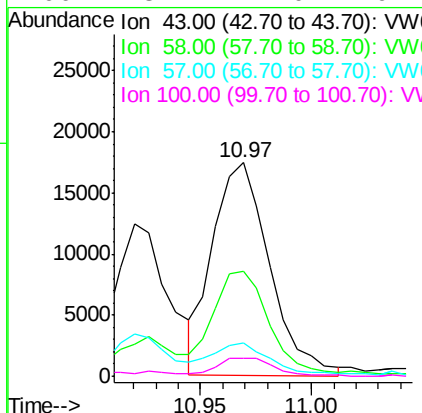
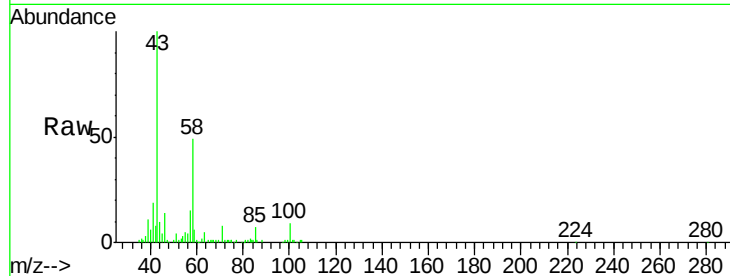
#48
2-Hexanone
Concen: 4.042 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampled :
MDL03

Tot Ion:	43	Resp:	31067
Ion	Ratio	Lower	Upper
43	100		
58	48.7	39.2	58.8
57	16.7	13.1	19.7
100	8.7	7.0	10.4

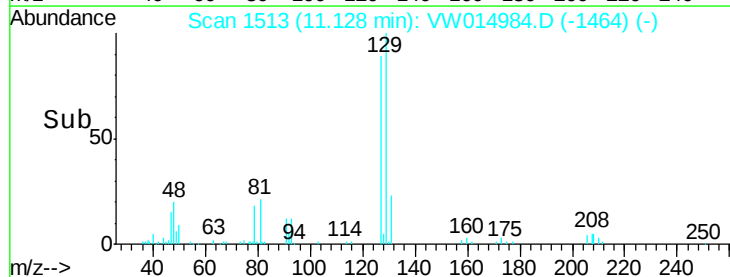
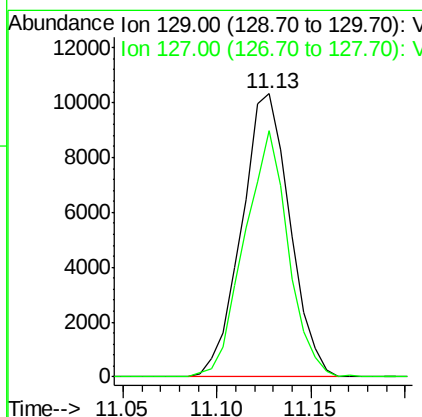
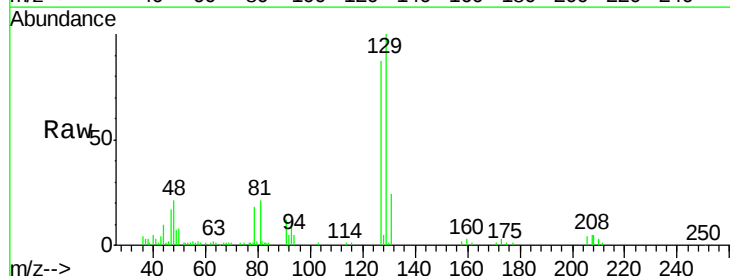
Manual Integrations
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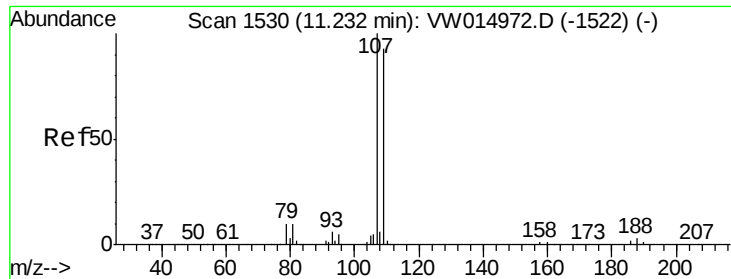
MMDadoda
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#49
Dibromochloromethane
Concen: 1.958 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion:	129	Resp:	18335
Ion	Ratio	Lower	Upper
129	100		
127	87.1	53.0	98.4





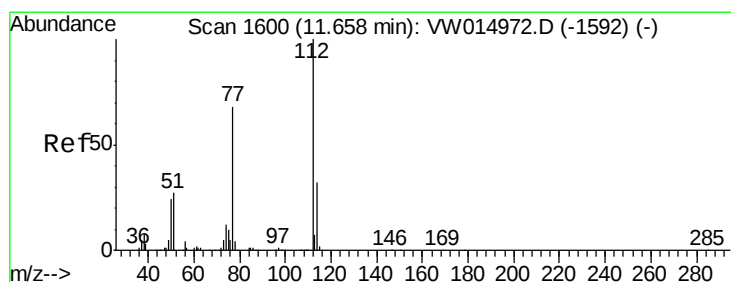
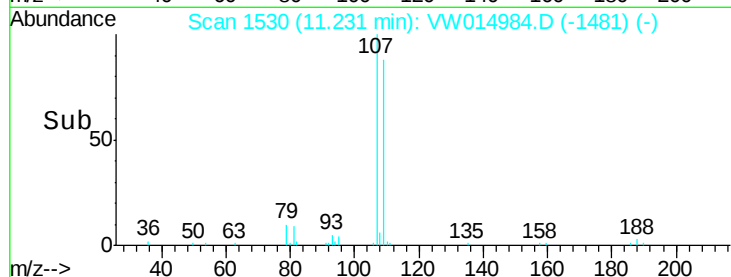
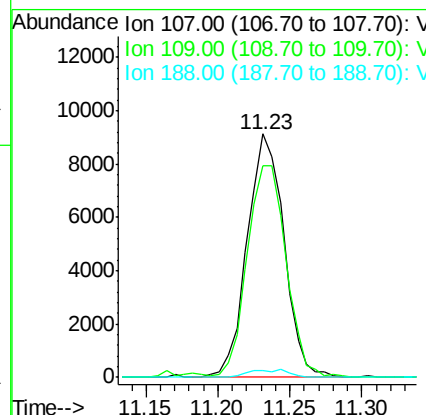
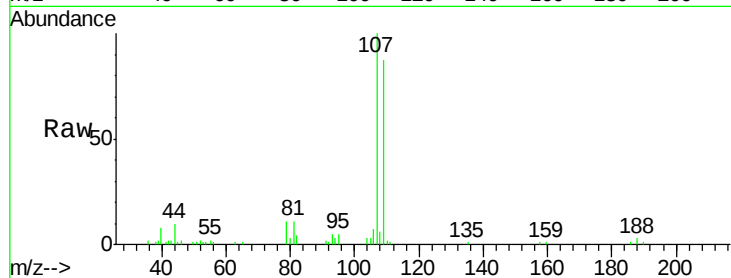
#50
1,2-Dibromoethane
Concen: 1.992 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	87.1	65.1	120.9
188	2.8	2.4	3.6

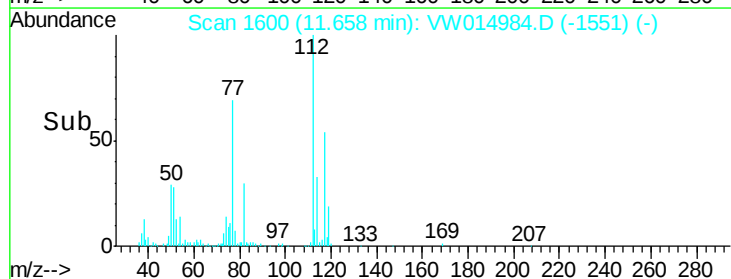
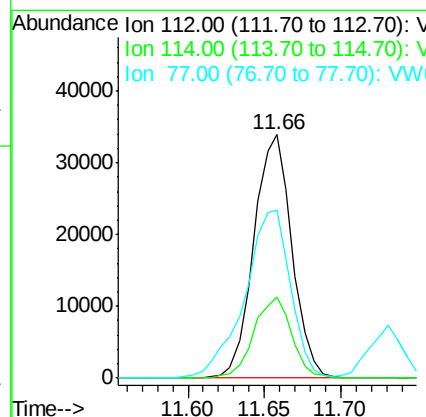
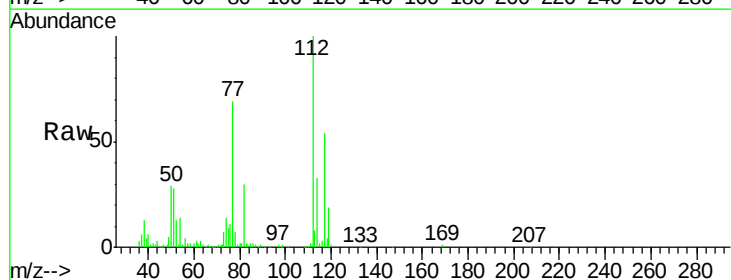
Manual Integrations
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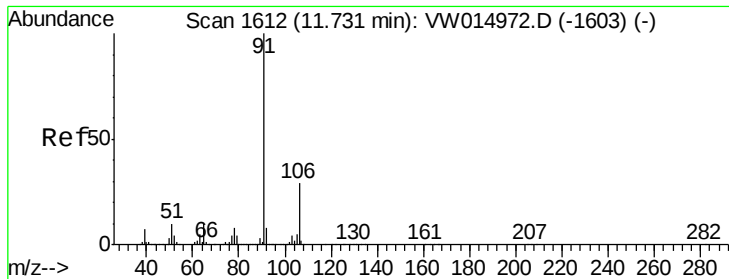
MMDadoda
2/14/2020 4:29:09 PM



#51
Chlorobenzene
Concen: 1.944 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.3	22.6	42.0
77	69.2	54.6	82.0





#52

Ethylbenzene

Concen: 1.782 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW014984.D

Acq: 13 Feb 2020 16:56

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 99506

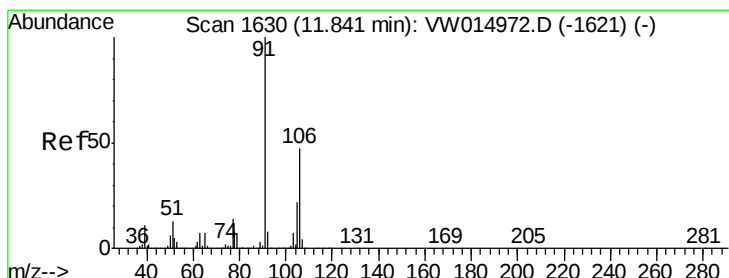
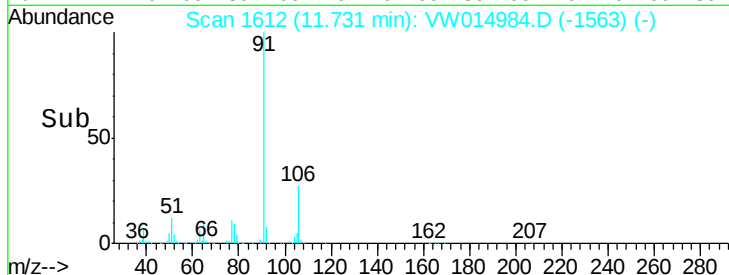
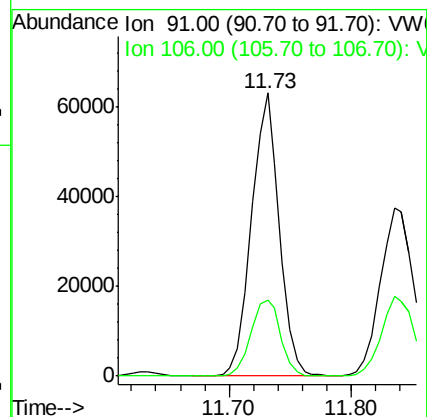
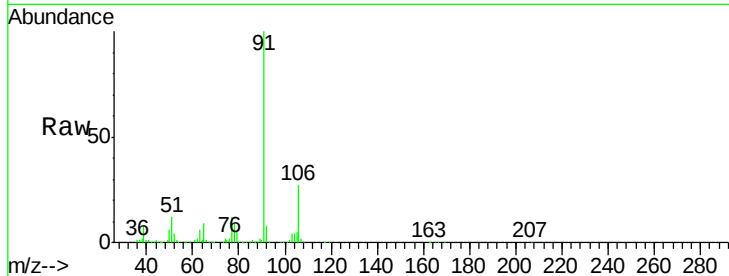
Ion Ratio Lower Upper

91 100

106 26.8 20.2 37.4

Manual Integrations
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#53

m,p-Xylene

Concen: 1.669 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW014984.D

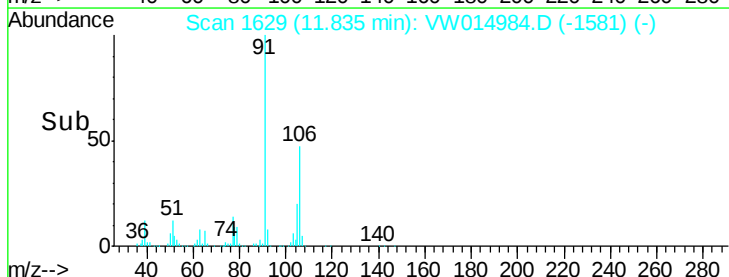
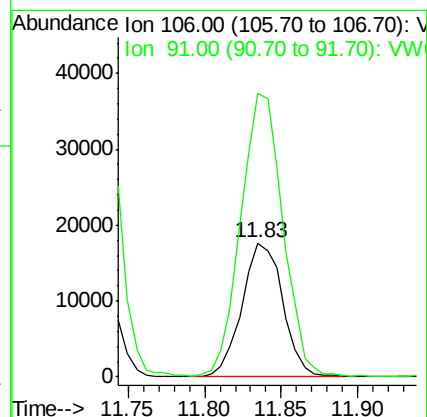
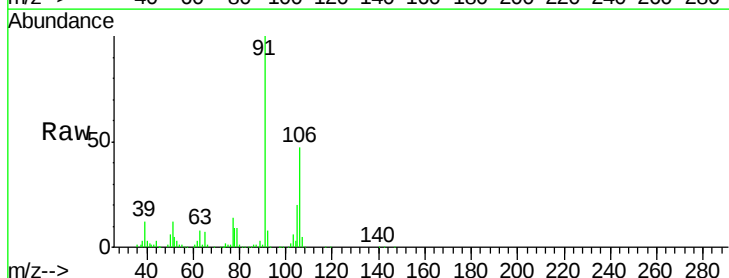
Acq: 13 Feb 2020 16:56

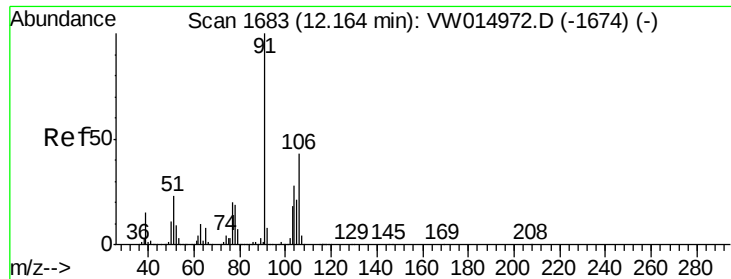
Tgt Ion: 106 Resp: 32700

Ion Ratio Lower Upper

106 100

91 211.4 149.2 277.2





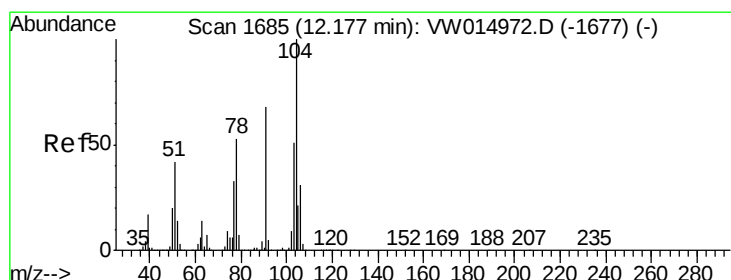
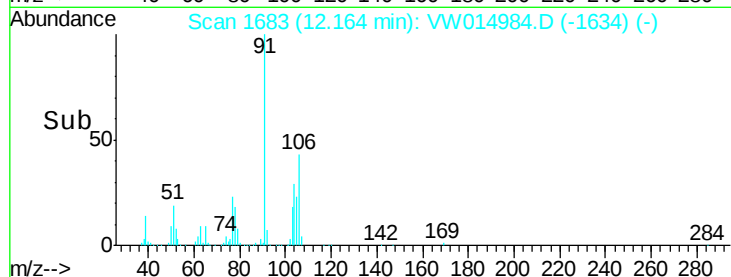
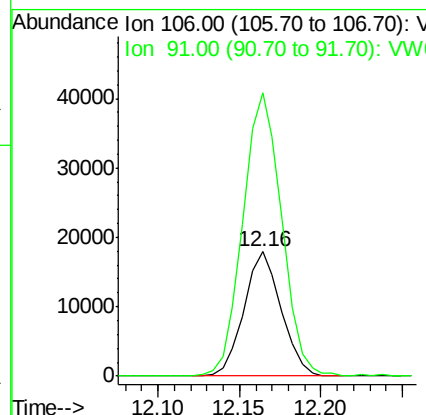
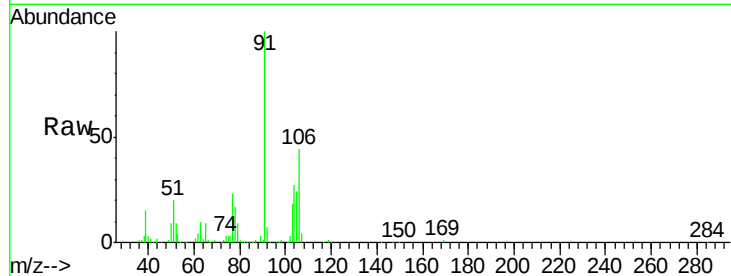
#54
o-Xylene
Concen: 1.552 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampled :
MDL03

Tot Ion:106 Resp: 28553
Ion Ratio Lower Upper
106 100
91 228.0 163.7 304.1

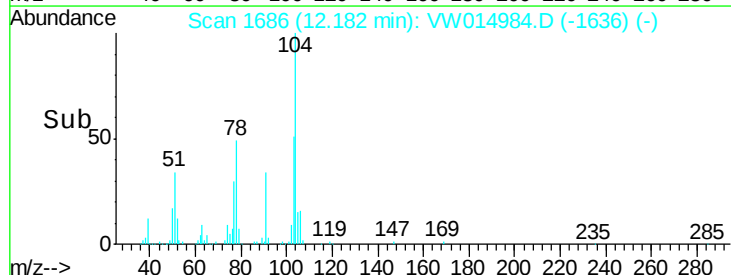
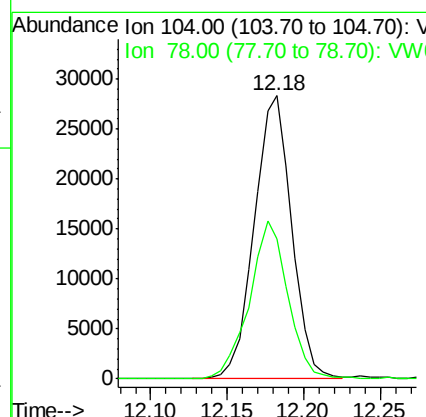
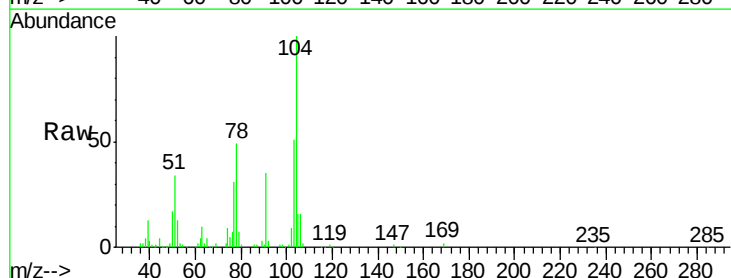
Manual Integrations
APPROVED

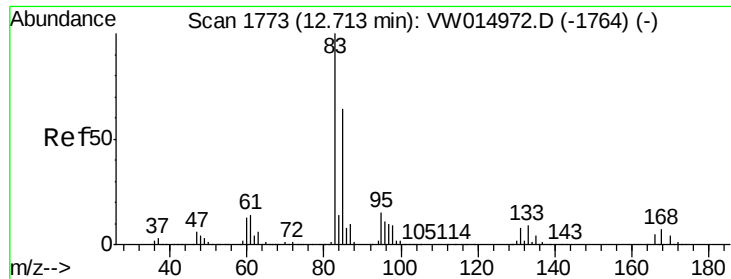
MMDadoda
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#55
Styrene
Concen: 1.523 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion:104 Resp: 48303
Ion Ratio Lower Upper
104 100
78 49.4 36.8 68.4





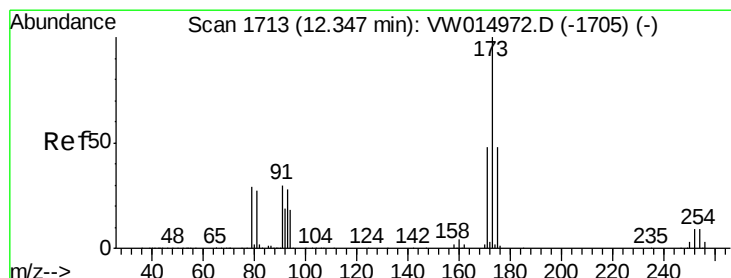
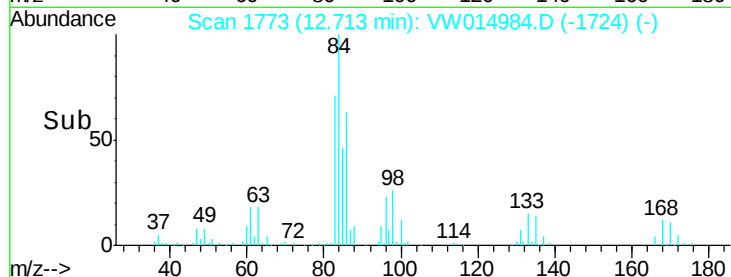
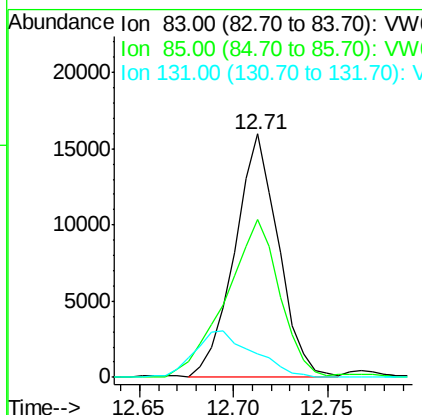
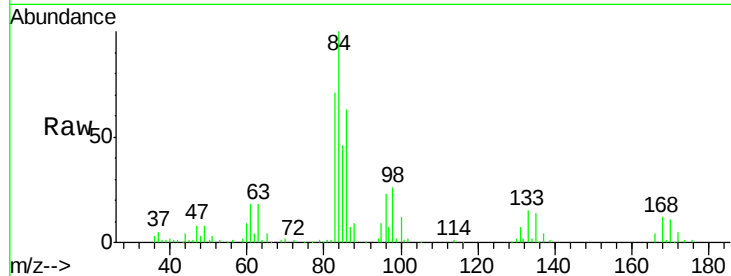
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.139 ug/L
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Resp	Lower	Upper
83	100	25723		
85	65.1		44.9	83.5
131	9.6		6.2	9.2#

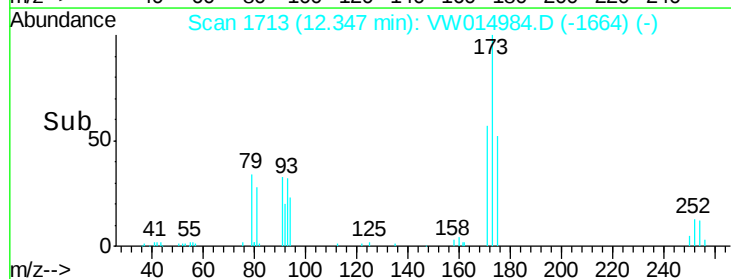
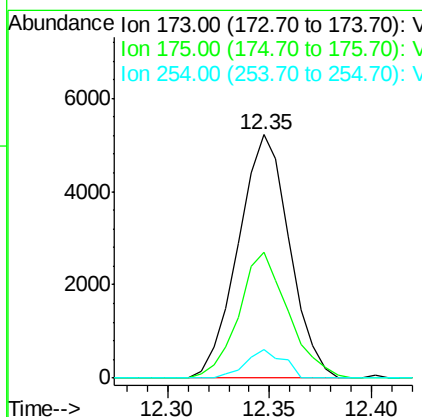
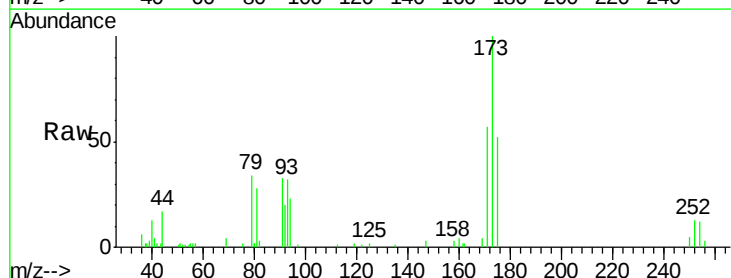
Manual Integrations
 APPROVED

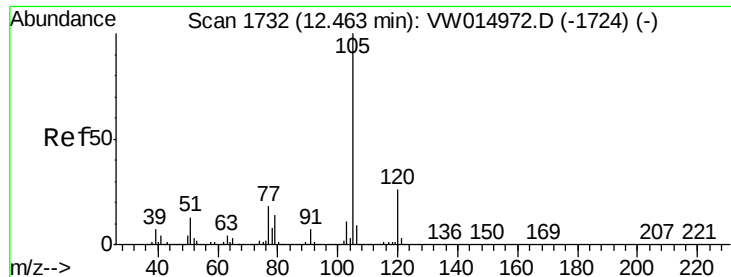
MMDadoda
 2/14/2020 4:29:09 PM



#59
 Bromoform
 Concen: 2.025 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	9097		
175	49.9		39.0	58.4
254	8.5		7.1	10.7





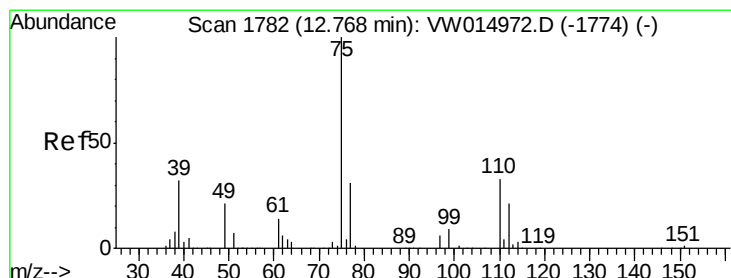
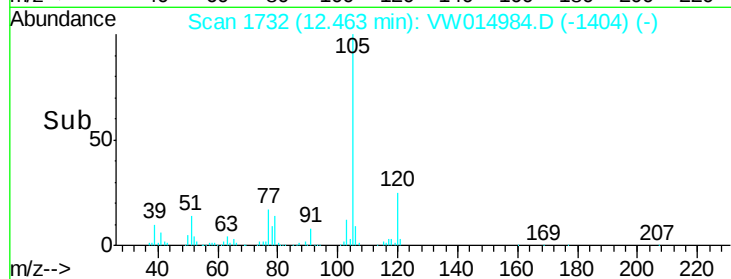
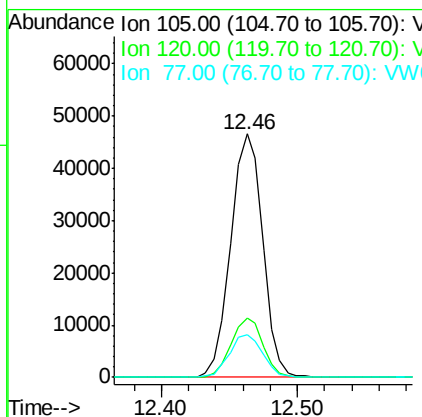
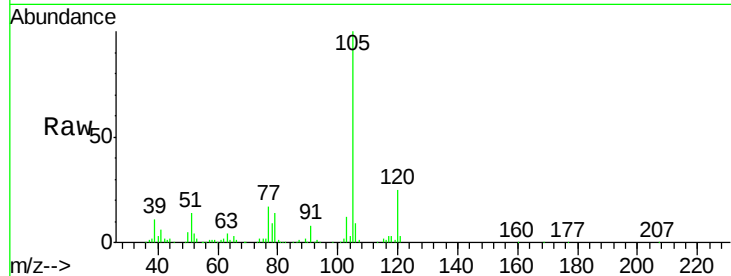
#60
Isopropylbenzene
Concen: 1.657 ug/L
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.4	20.1	30.1
77	18.2	14.4	21.6

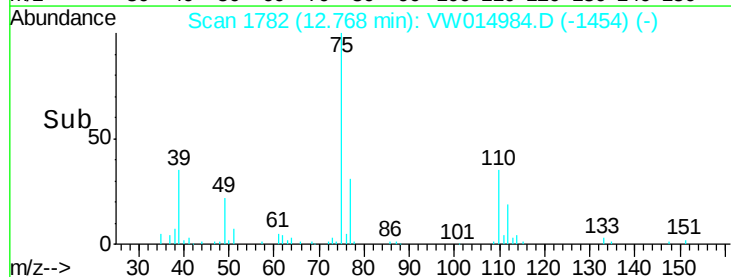
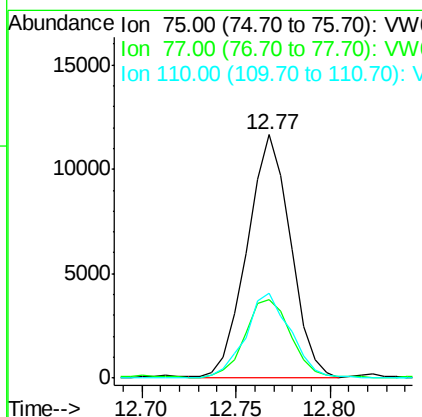
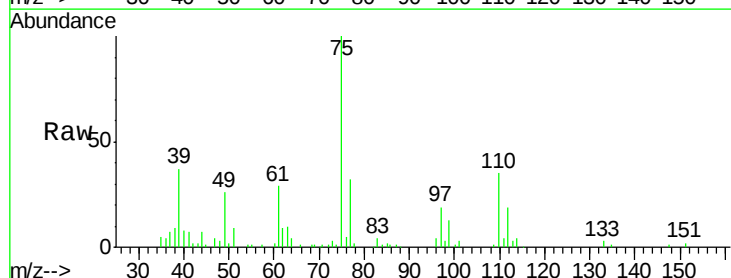
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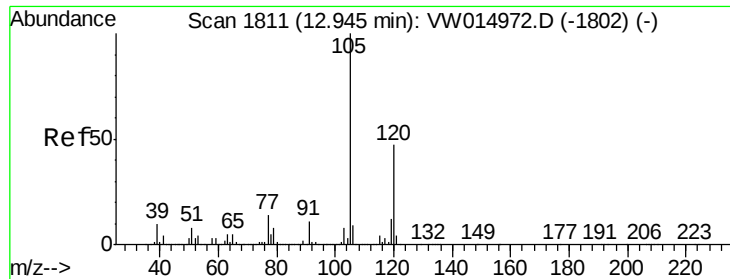
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#61
1,2,3-Trichloropropane
Concen: 2.172 ug/L
RT: 12.77 min Scan# 1782
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.3	25.8	38.6
110	35.7	26.6	39.8





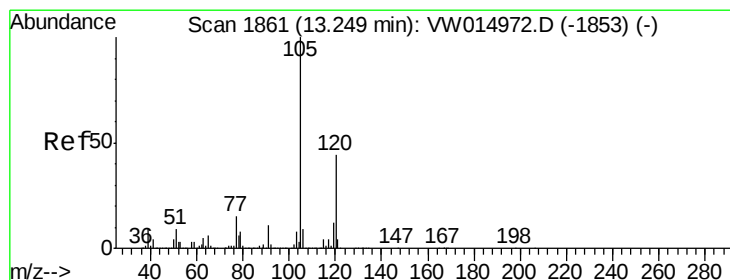
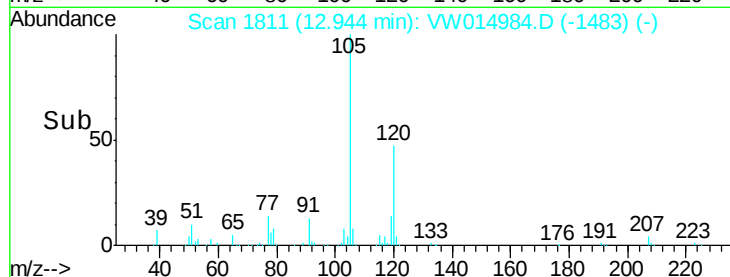
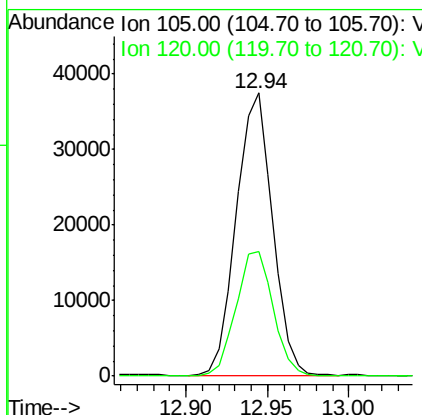
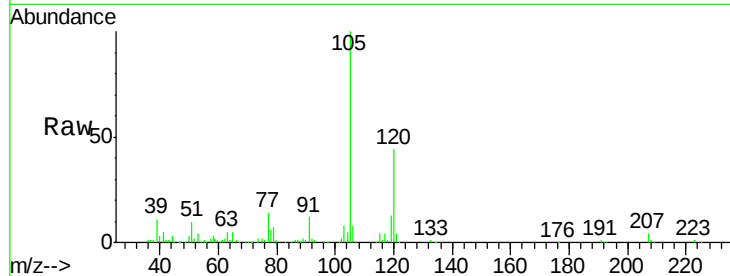
#62
 1,3,5-Trimethylbenzene
 Concen: 1.594 ug/L
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampled :
 MDL03

Tot Ion:105 Resp: 58442
 Ion Ratio Lower Upper
 105 100
 120 45.2 37.4 56.0

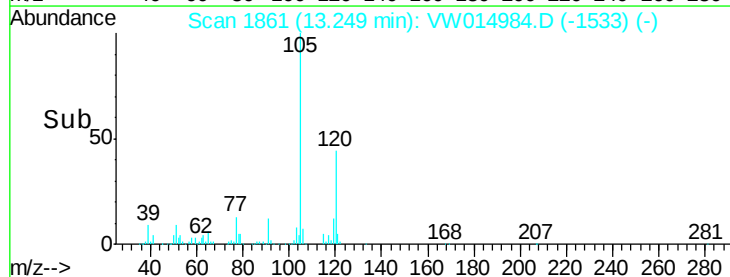
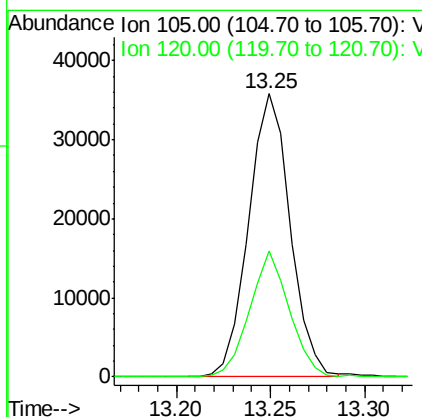
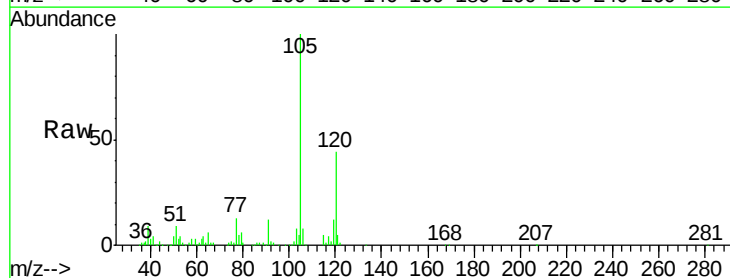
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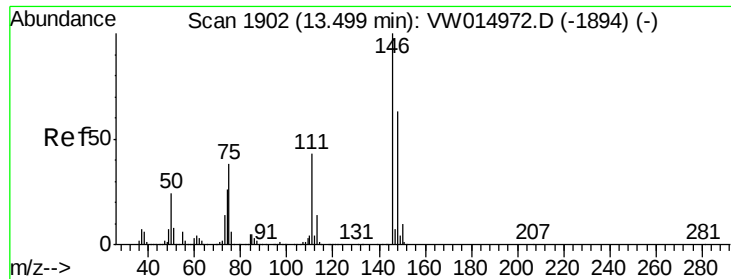
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.526 ug/L
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion:105 Resp: 54753
 Ion Ratio Lower Upper
 105 100
 120 42.5 35.0 52.4





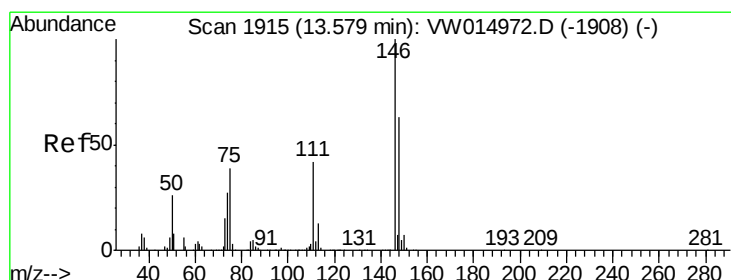
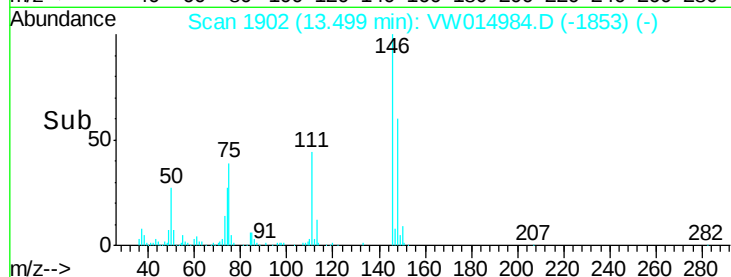
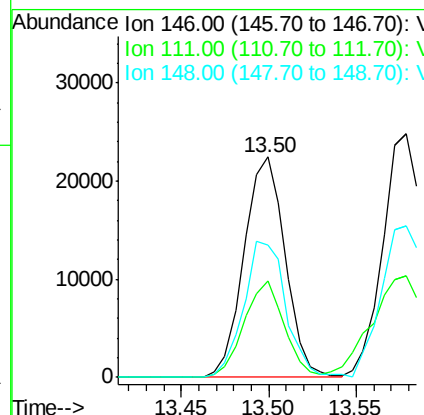
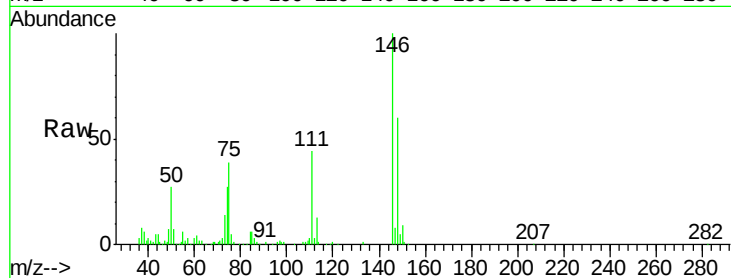
#64
 1,3-Dichlorobenzene
 Concen: 1.938 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.1	30.2	56.0
148	60.0	44.2	82.2

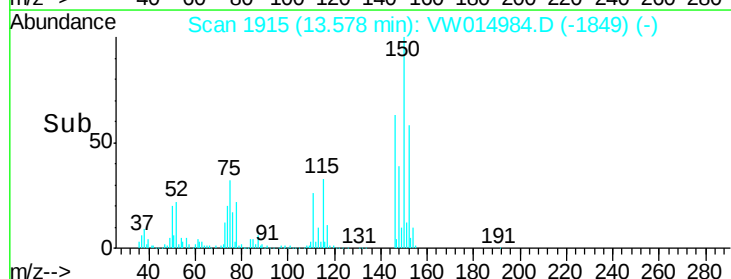
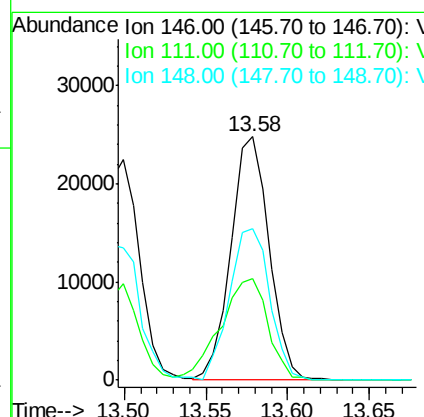
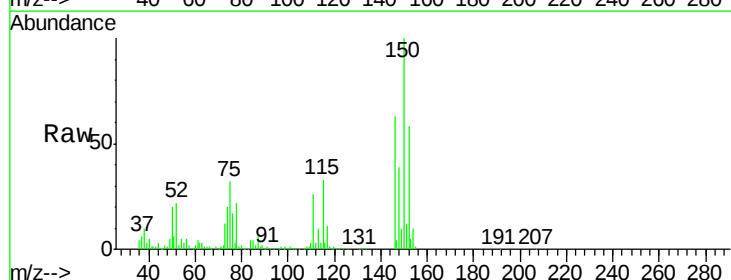
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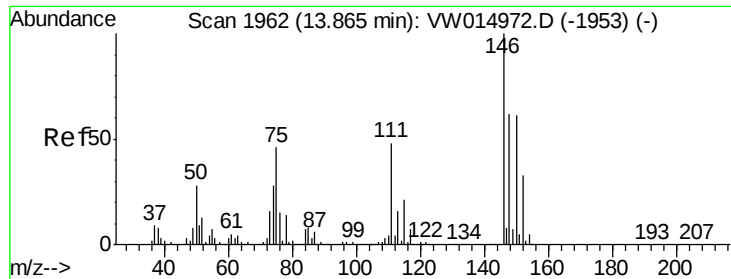
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#65
 1,4-Dichlorobenzene
 Concen: 2.078 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	29.5	54.9
148	62.3	43.8	81.3





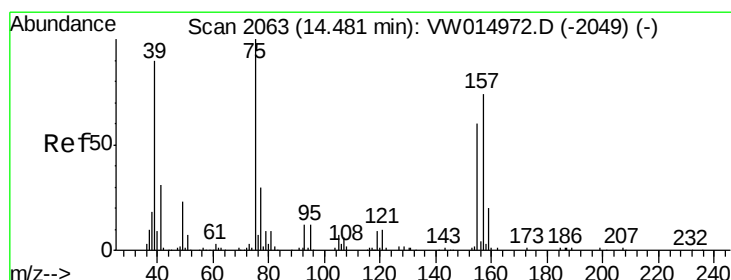
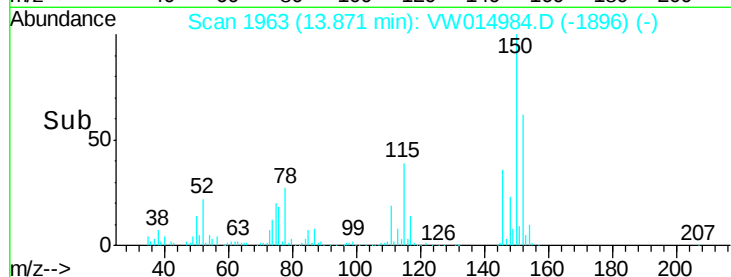
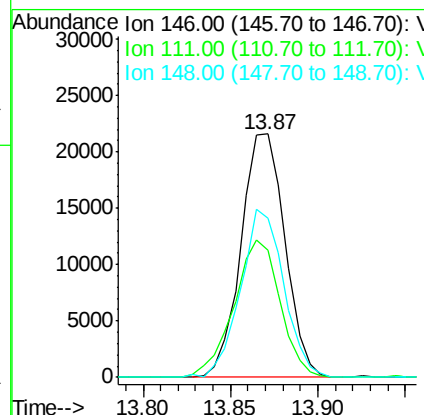
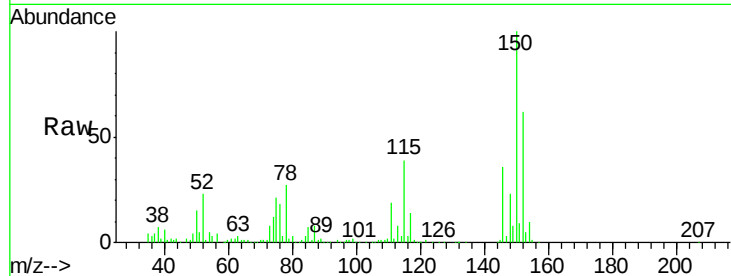
#67
 1,2-Dichlorobenzene
 Concen: 2.153 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.3	38.0	57.0
148	65.3	49.5	74.3

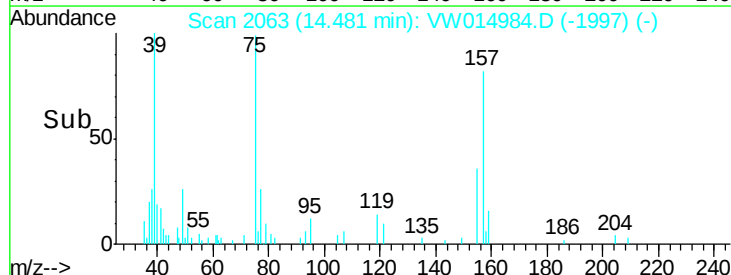
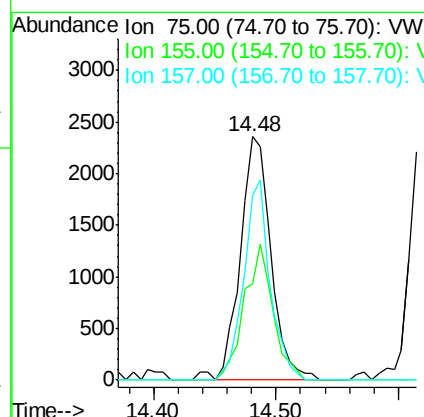
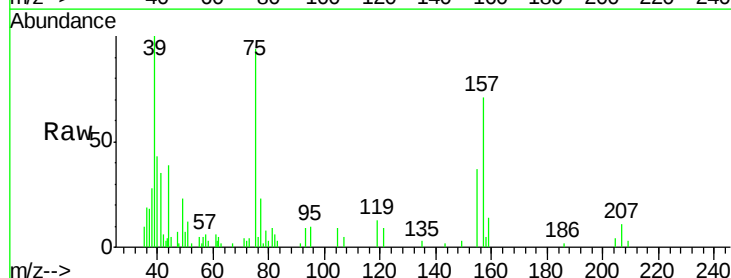
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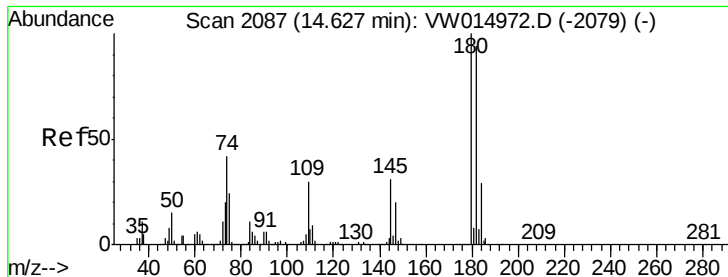
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.273 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	39.8	48.0	72.0#
157	76.1	59.4	89.0





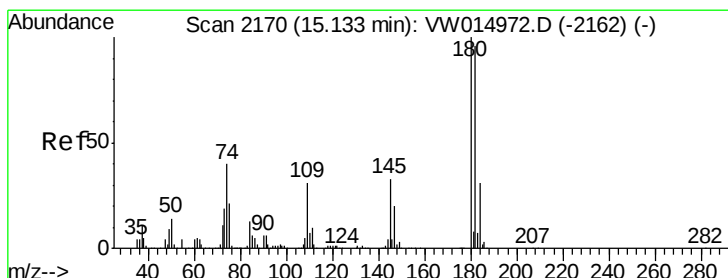
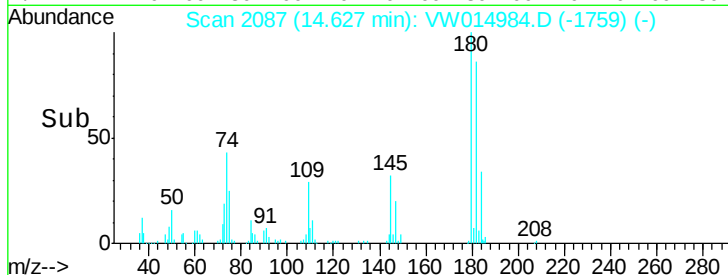
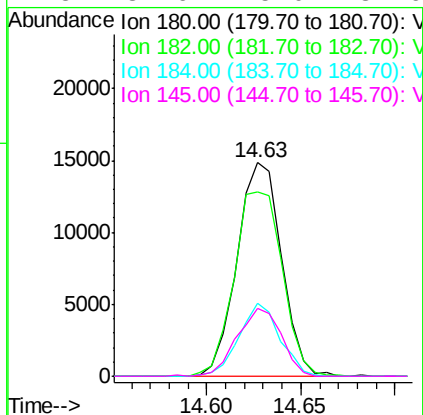
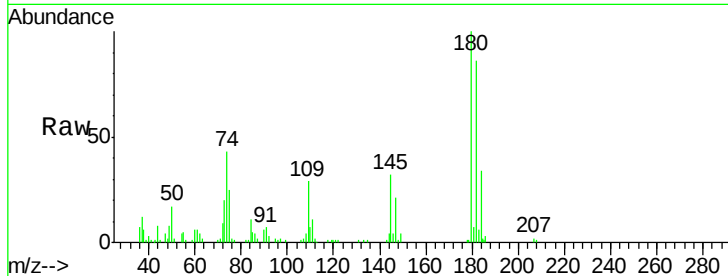
#69
 1,3,5-Trichlorobenzene
 Concen: 1.909 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tot Ion:	180	Resp:	24253
Ion Ratio	Lower	Upper	
180	100		
182	94.1	76.5	114.7
184	31.6	24.2	36.2
145	31.6	25.0	37.6

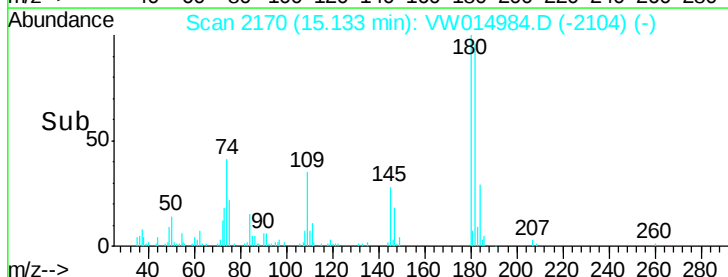
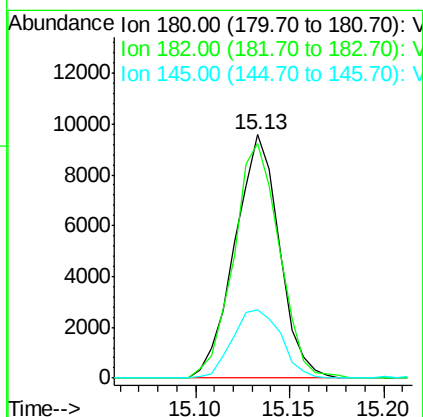
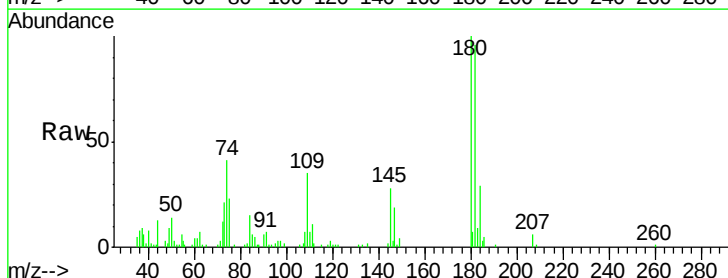
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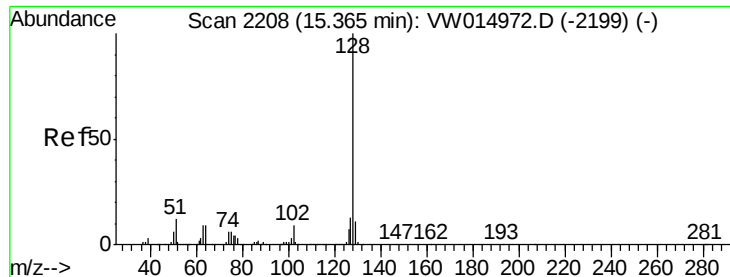
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#70
 1,2,4-trichlorobenzene
 Concen: 1.647 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014984.D
 Acq: 13 Feb 2020 16:56

Tgt Ion:	180	Resp:	15681
Ion Ratio	Lower	Upper	
180	100		
182	98.7	76.2	114.4
145	30.8	26.2	39.4





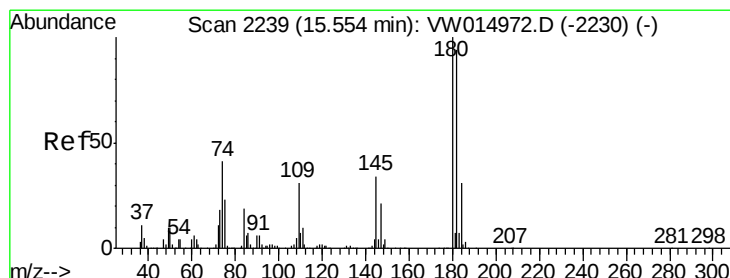
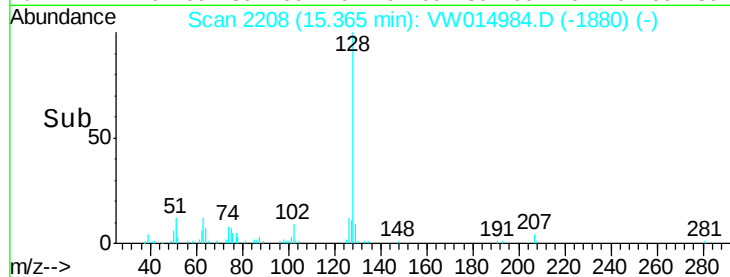
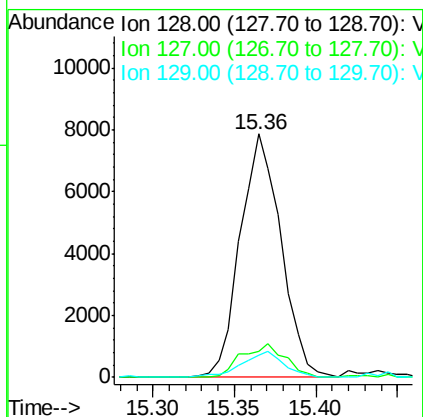
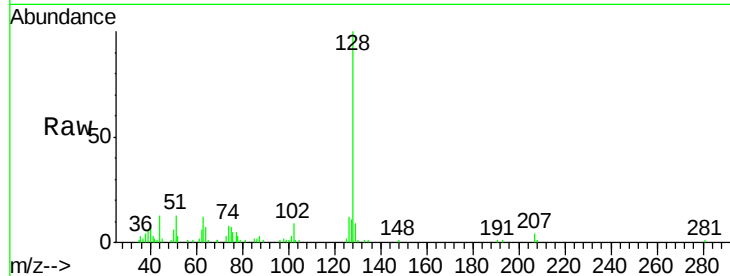
#71
Naphthalene
Concen: 1.400 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Instrument :
MSVOA_W
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.7	10.5	15.7#
129	10.7	8.6	12.8

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 1.744 ug/L
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW014984.D
Acq: 13 Feb 2020 16:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	75.2	112.8
145	36.2	27.0	40.6

