

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021420\
 Data File : VW014991.D
 Acq On : 14 Feb 2020 12:26
 Operator : SY/VA
 Sample : MDL04
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 2/17/2020 3:46:14 PM

Quant Time: Feb 15 03:15:03 2020

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

Quant Title : SFAM01.0

QLast Update : Sat Feb 15 03:02:51 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	748106	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	694577	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.56	152	267807	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	393480	26.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.48%
7) Chloroethane-d5	2.89	69	298555	26.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.04%
11) 1,1-Dichloroethene-d2	4.01	63	521543	19.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	77.20%
21) 2-Butanone-d5	7.07	46	189244	45.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.14%
24) Chloroform-d	7.65	84	604908	25.17	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.68%
26) 1,2-Dichloroethane-d4	8.30	65	362060	25.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.72%
32) Benzene-d6	8.27	84	1220068	26.07	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.28%
36) 1,2-Dichloropropane-d6	9.27	67	413019	25.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.64%
41) Toluene-d8	10.32	98	1034086	26.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.76%
43) trans-1,3-Dichloropropene-	10.57	79	150129	24.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.20%
47) 2-Hexanone-d5	10.92	63	127687	44.60	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.20%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	281031	23.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.60%
66) 1,2-Dichlorobenzene-d4	13.85	152	278052	27.59	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	110.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.02	85	7235	0.974 ug/L	96
3) Chloromethane	2.21	50	16930	1.211 ug/L	96
5) Vinyl chloride	2.36	62	21820	1.213 ug/L #	46
6) Bromomethane	2.78	94	9427	1.155 ug/L	89
8) Chloroethane	2.93	64	11635	1.209 ug/L	85
9) Trichlorofluoromethane	3.26	101	7921	1.115 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	4.06	101	16829m	1.448 ug/L	
12) 1,1-Dichloroethene	4.03	96	15321	1.374 ug/L #	1
13) Acetone	4.12	43	14721	3.358 ug/L	99
14) Carbon disulfide	4.39	76	43160	1.071 ug/L	98
15) Methyl Acetate	4.68	43	7327m	0.963 ug/L	
16) Methylene chloride	4.92	84	40587	2.936 ug/L	97
17) trans-1,2-Dichloroethene	5.42	96	12296m	1.093 ug/L	
18) Methyl tert-butyl Ether	5.43	73	14020m	1.010 ug/L	
19) 1,1-Dichloroethane	6.21	63	28125	1.119 ug/L	98
20) cis-1,2-Dichloroethene	7.17	96	12297m	1.061 ug/L	
22) 2-Butanone	7.18	43	14606	2.772 ug/L	83

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MMDadoda
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Quant Time: Feb 15 03:15:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM021320SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Feb 15 03:02:51 2020
 Response via : Initial Calibration

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

23) Bromochloromethane	7.52	128	5358	1.139	ug/L #	84
25) Chloroform	7.67	83	26265	1.173	ug/L	86
27) 1,2-Dichloroethane	8.40	62	18562	1.128	ug/L #	92
29) Cyclohexane	7.95	56	19739	0.872	ug/L	98
30) 1,1,1-Trichloroethane	7.87	97	18845	1.115	ug/L	98
31) Carbon tetrachloride	8.06	117	16803	1.103	ug/L	99
33) Benzene	8.32	78	56629	1.110	ug/L	100
34) Trichloroethene	9.09	95	13567	1.111	ug/L	94
35) Methylcyclohexane	9.33	83	19425	0.922	ug/L	89
37) 1,2-Dichloropropane	9.37	63	15136	1.063	ug/L #	96
38) Bromodichloromethane	9.64	83	16926	1.055	ug/L	93
39) cis-1,3-Dichloropropene	10.07	75	18263	0.958	ug/L	95
40) 4-Methyl-2-pentanone	10.21	43	19152	1.889	ug/L	99
42) Toluene	10.38	91	55952	1.135	ug/L	99
44) trans-1,3-Dichloropropene	10.60	75	15785m	0.999	ug/L	
45) 1,1,2-Trichloroethane	10.79	97	9504	1.100	ug/L	97
46) Tetrachloroethene	10.87	164	8659	1.092	ug/L	86
48) 2-Hexanone	10.97	43	15523	2.101	ug/L #	97
49) Dibromochloromethane	11.13	129	9032	1.003	ug/L	97
50) 1,2-Dibromoethane	11.23	107	8021	1.030	ug/L	97
51) Chlorobenzene	11.65	112	31681	1.090	ug/L	90
52) Ethylbenzene	11.73	91	51815	0.965	ug/L	97
53) m,p-Xylene	11.84	106	17505	0.929	ug/L	100
54) o-Xylene	12.16	106	15270	0.863	ug/L	91
55) Styrene	12.18	104	24348	0.799	ug/L	84
57) 1,1,2,2-Tetrachloroethane	12.71	83	12149	1.051	ug/L #	86
59) Bromoform	12.35	173	4526	1.105	ug/L #	97
60) Isopropylbenzene	12.46	105	39995	0.954	ug/L	98
61) 1,2,3-Trichloropropane	12.77	75	8582	1.093	ug/L #	93
62) 1,3,5-Trimethylbenzene	12.94	105	29551	0.884	ug/L	100
63) 1,2,4-Trimethylbenzene	13.25	105	27126	0.829	ug/L	100
64) 1,3-Dichlorobenzene	13.49	146	18836	1.090	ug/L	97
65) 1,4-Dichlorobenzene	13.58	146	20146	1.131	ug/L	97
67) 1,2-Dichlorobenzene	13.87	146	19695	1.232	ug/L	96
69) 1,3,5-Trichlorobenzene	14.63	180	13040	1.126	ug/L	99
70) 1,2,4-trichlorobenzene	15.13	180	8145	0.938	ug/L	96
71) Naphthalene	15.37	128	6305	0.707	ug/L #	92
72) 1,2,3-Trichlorobenzene	15.56	180	6909	0.859	ug/L	90

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

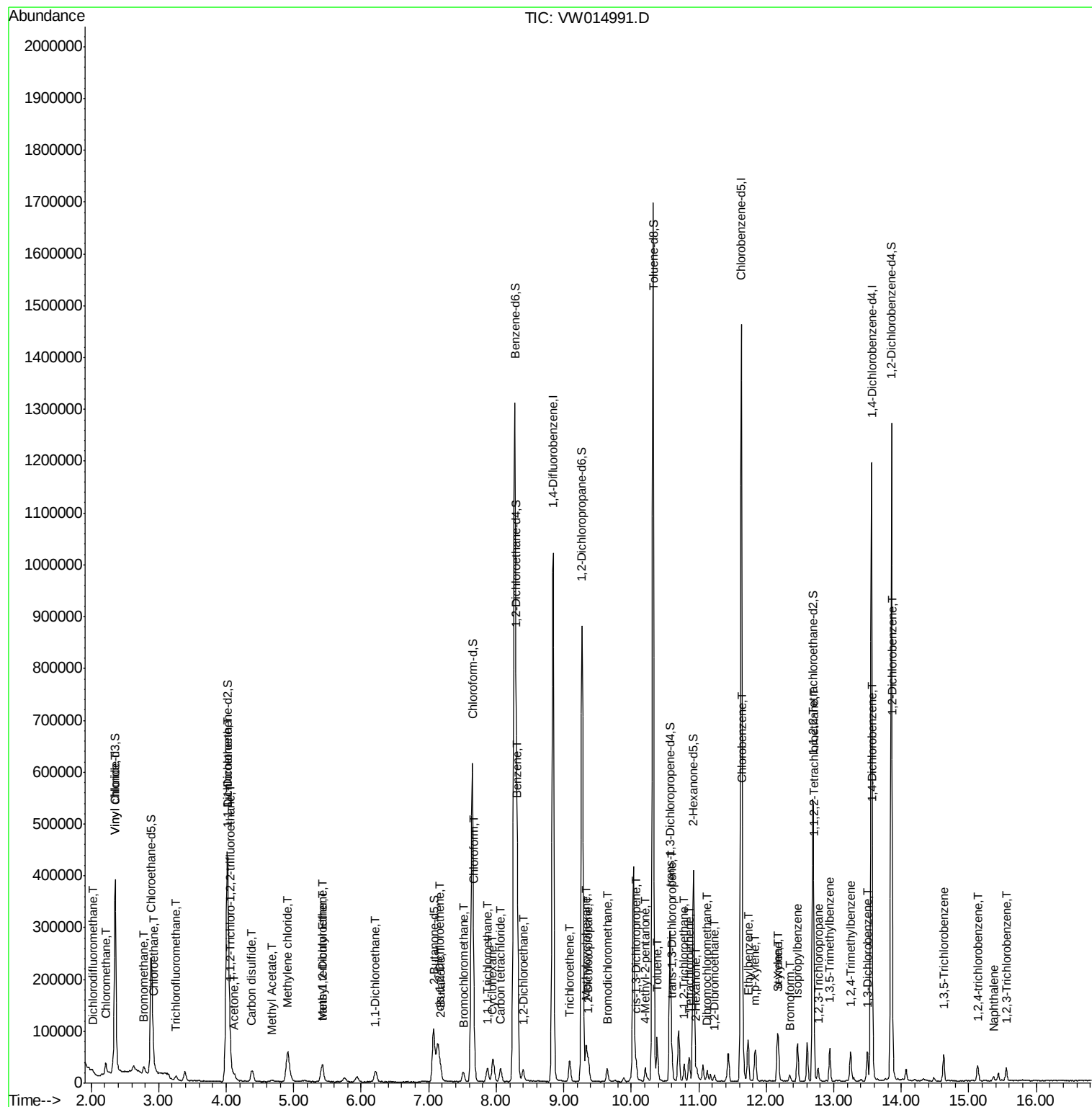
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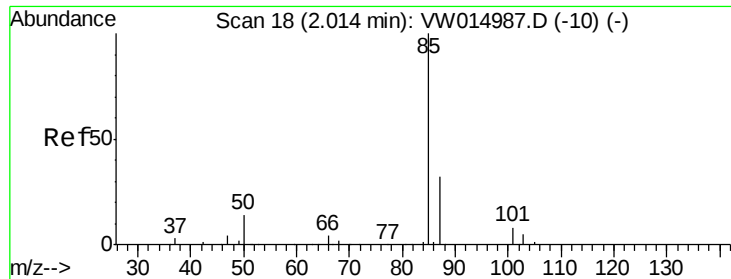
Instrument :
MSVOA_W
ClientSampled :
MDL04

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.974 ug/L

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 7235

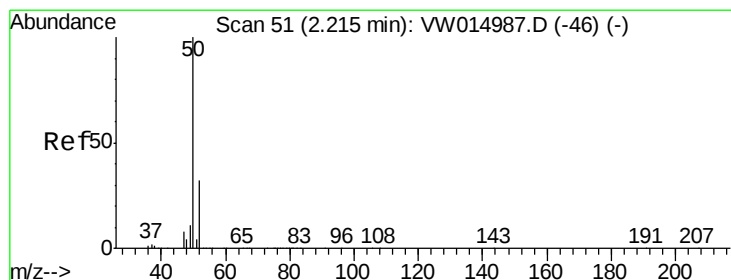
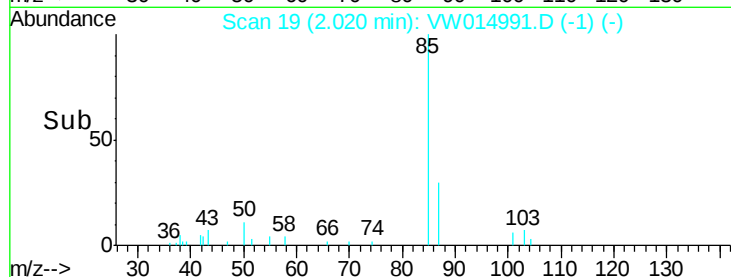
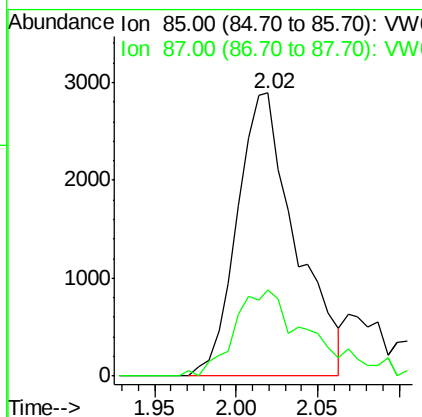
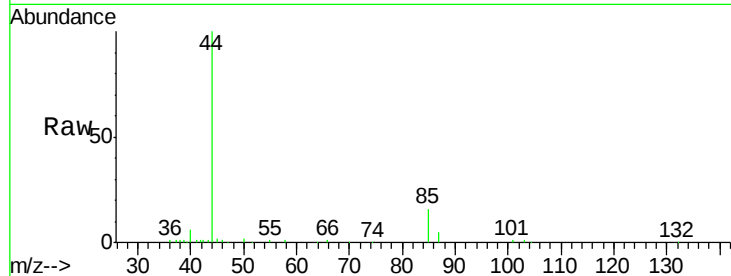
Ion Ratio Lower Upper

85 100

87 25.1 21.5 32.3

Manual Integrations
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#3

Chloromethane

Concen: 1.211 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014991.D

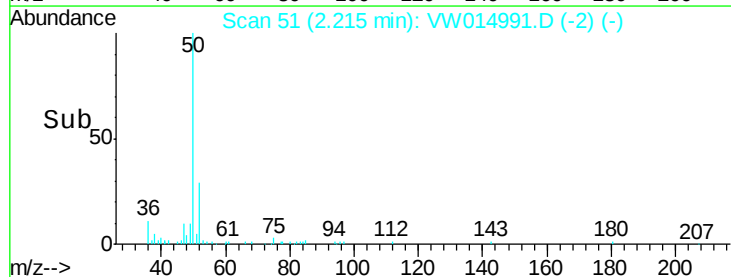
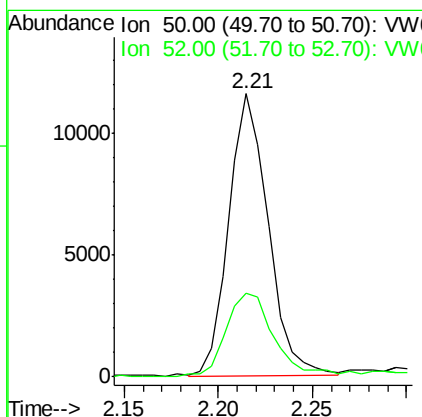
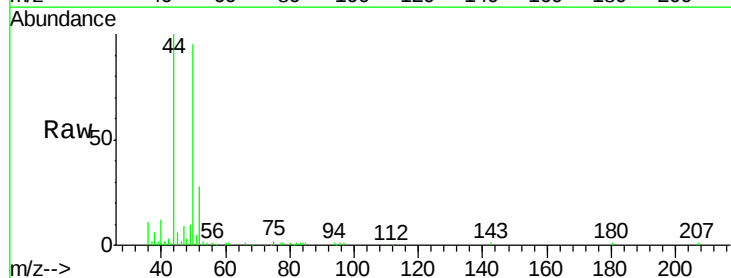
Acq: 14 Feb 2020 12:26

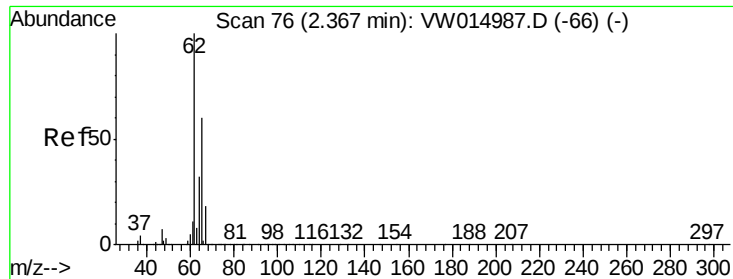
Tgt Ion: 50 Resp: 16930

Ion Ratio Lower Upper

50 100

52 29.4 22.3 41.3





#5

Vinyl chloride

Concen: 1.213 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampled :

MDL04

Tot Ion: 62 Resp: 21820

Ion Ratio Lower Upper

62 100

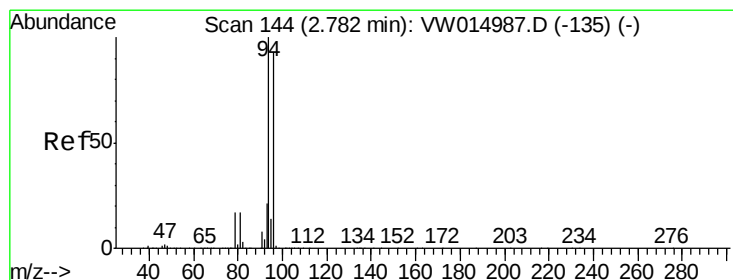
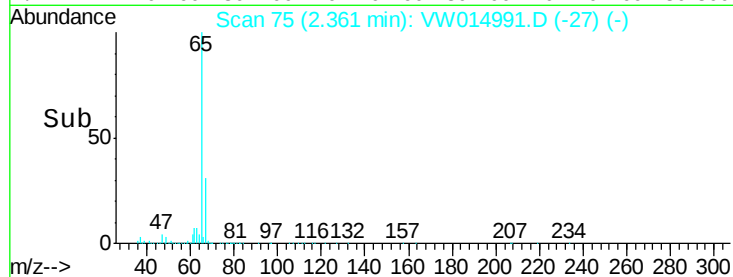
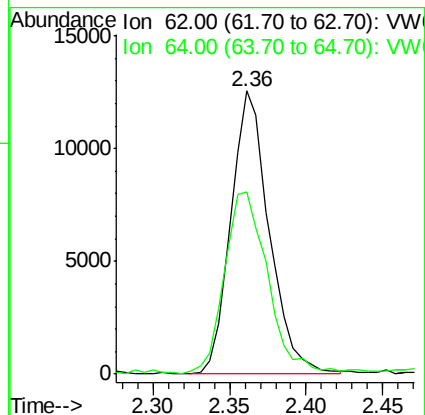
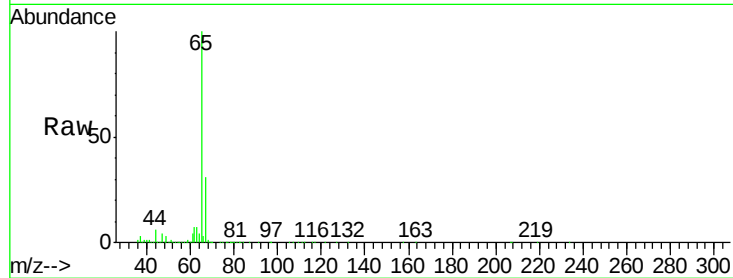
64 64.2 23.6 43.8#

Manual Integrations

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#6

Bromomethane

Concen: 1.155 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW014991.D

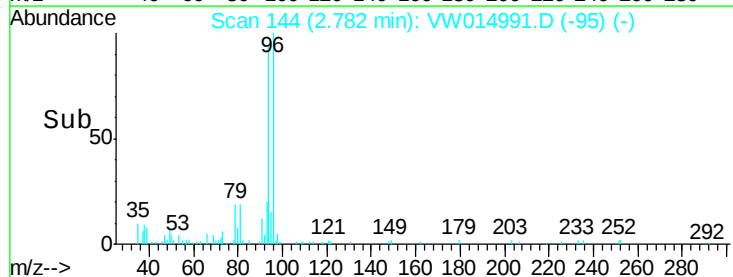
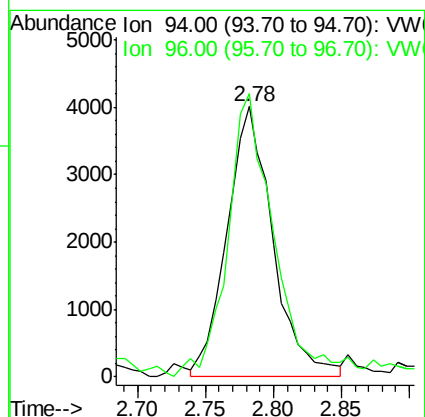
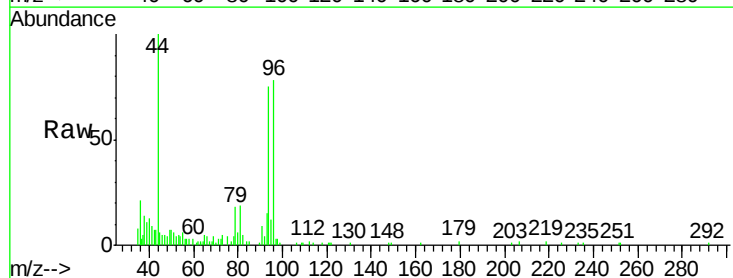
Acq: 14 Feb 2020 12:26

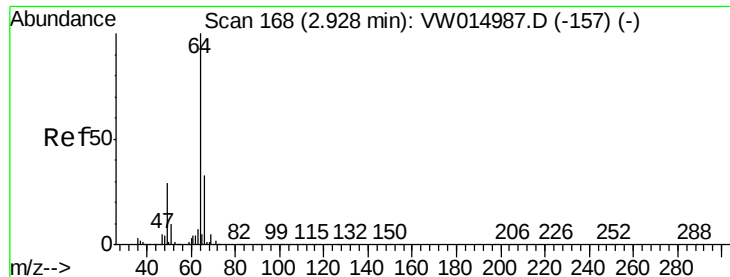
Tgt Ion: 94 Resp: 9427

Ion Ratio Lower Upper

94 100

96 104.8 65.8 122.2





#8

Chloroethane

Concen: 1.209 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampled :

MDL04

Tot Ion: 64 Resp: 11635

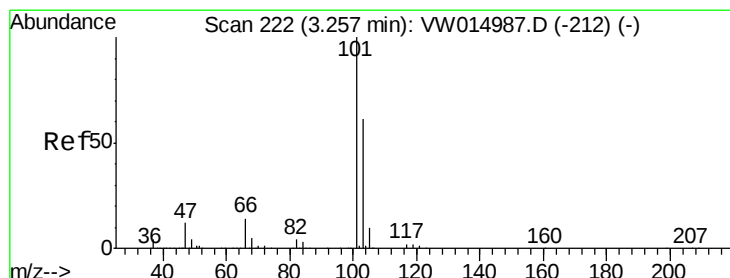
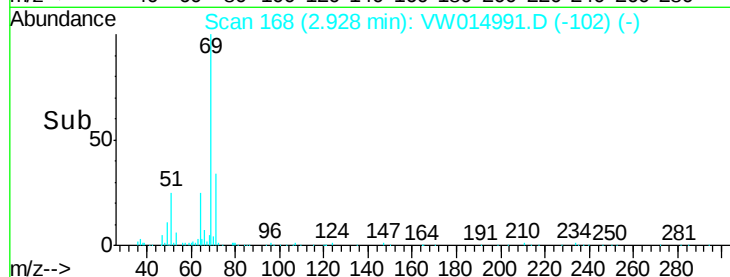
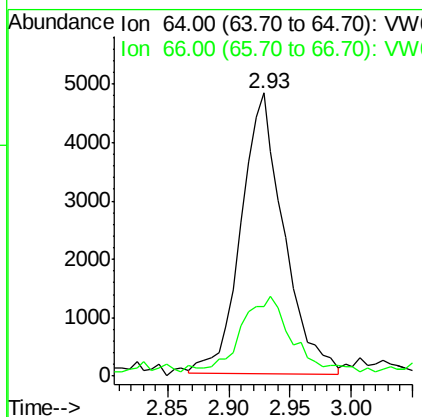
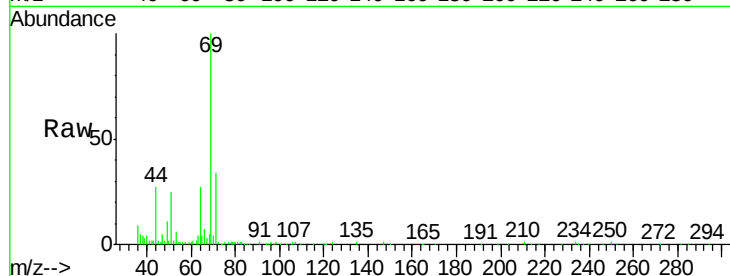
Ion Ratio Lower Upper

64 100

66 24.7 23.1 42.9

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 1.115 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014991.D

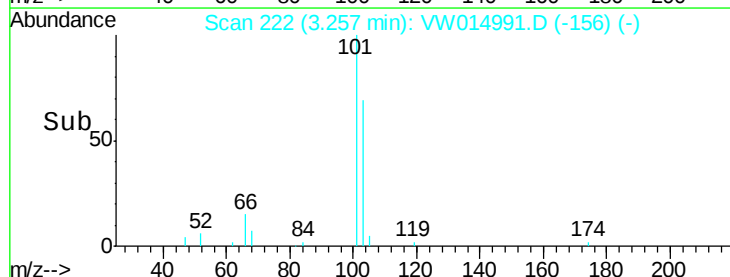
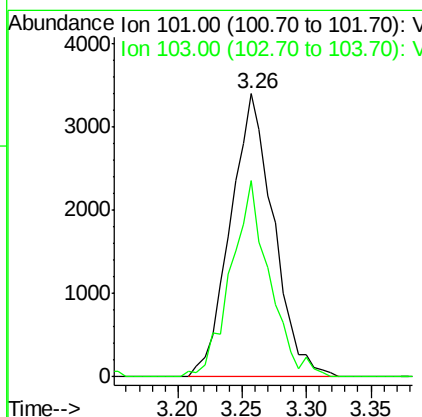
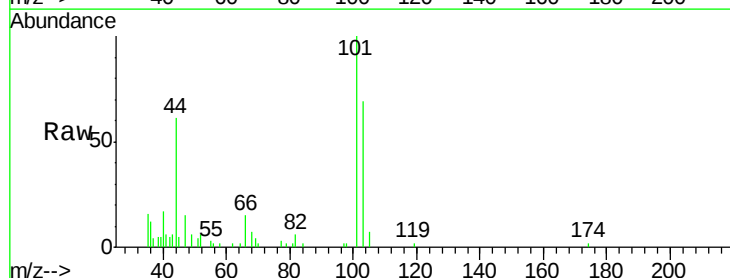
Acq: 14 Feb 2020 12:26

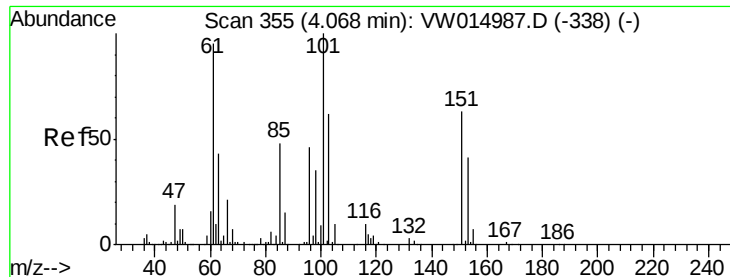
Tgt Ion: 101 Resp: 7921

Ion Ratio Lower Upper

101 100

103 60.4 51.5 77.3





#10

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

Concen: 1.448 ug/L m

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

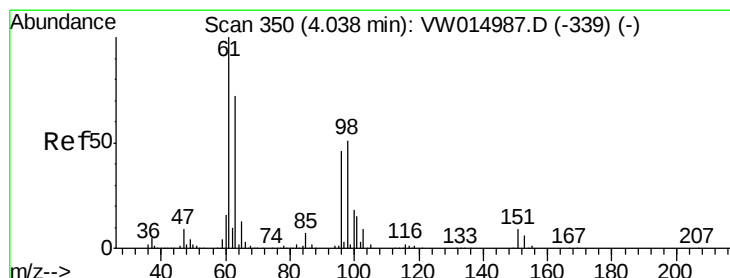
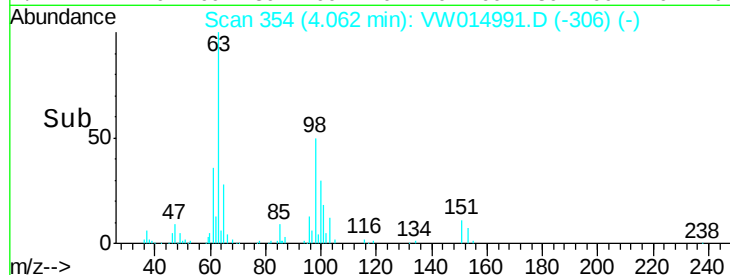
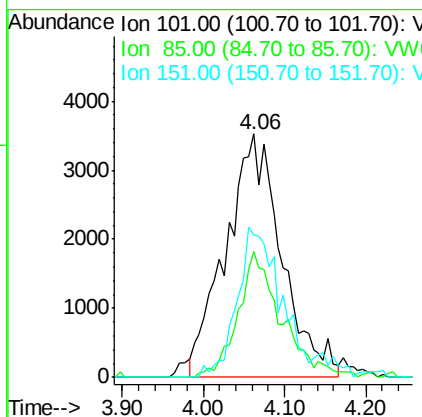
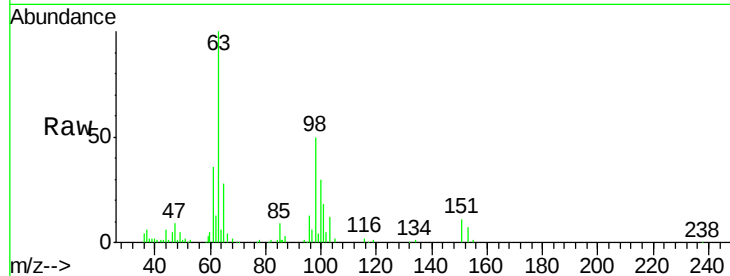
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
101	100		
85	31.3	36.5	54.7#
151	45.2	50.2	75.4#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 1.374 ug/L

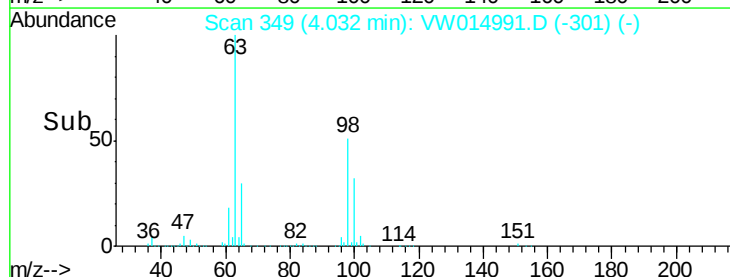
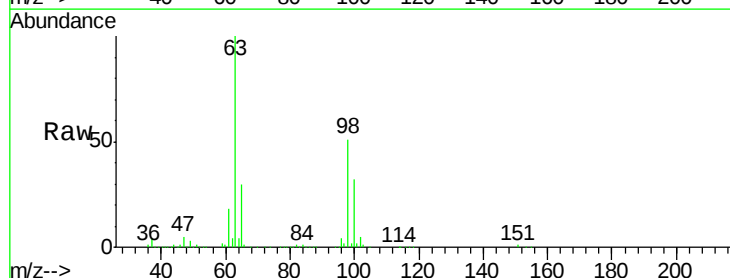
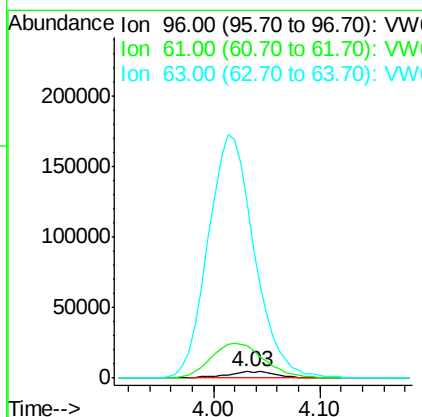
RT: 4.03 min Scan# 349

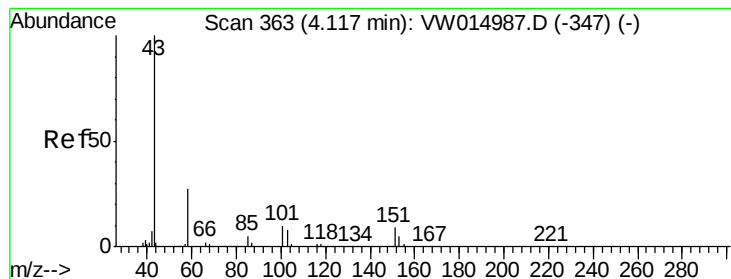
Delta R.T. -0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	492.5	147.0	273.0#
63	2675.6	113.4	210.6#





#13

Acetone

Concen: 3.358 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 14721

Ion Ratio Lower Upper

43 100

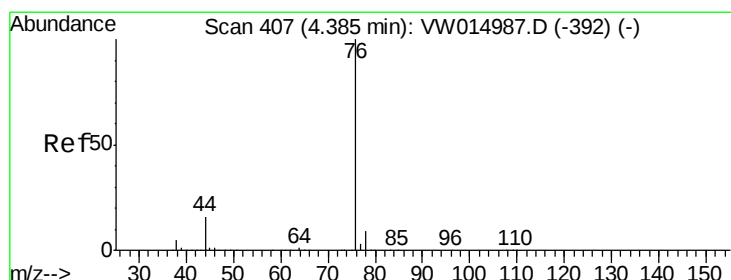
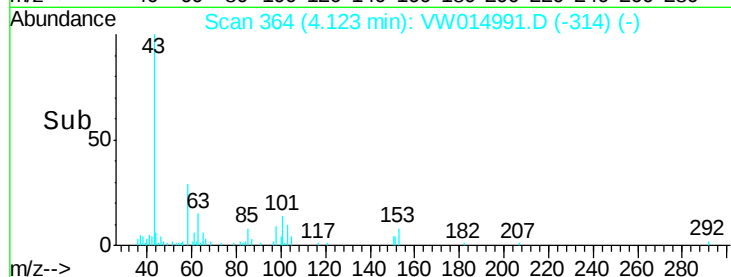
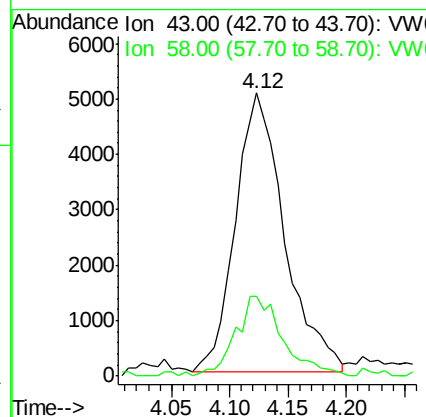
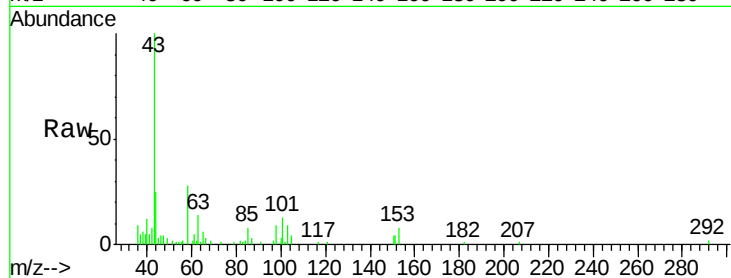
58 27.7 0.0 54.6

Manual Integrations

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#14

Carbon disulfide

Concen: 1.071 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014991.D

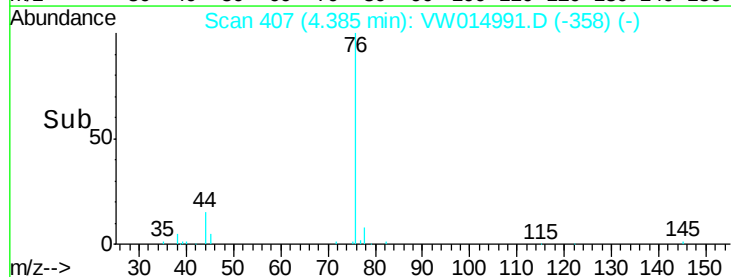
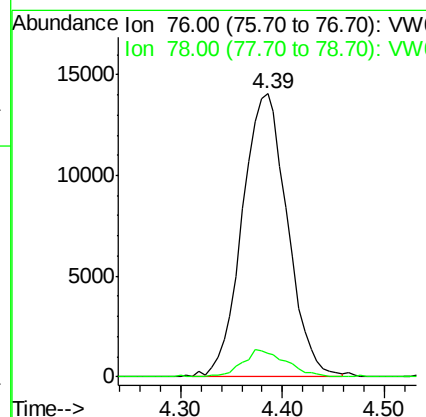
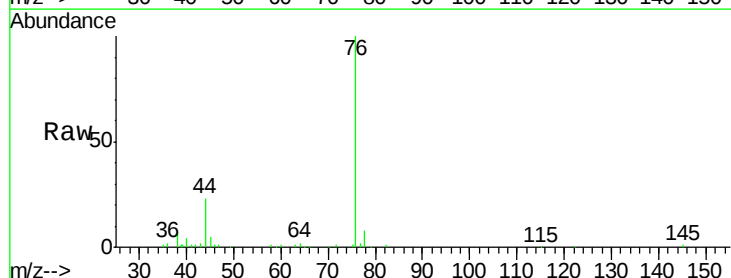
Acq: 14 Feb 2020 12:26

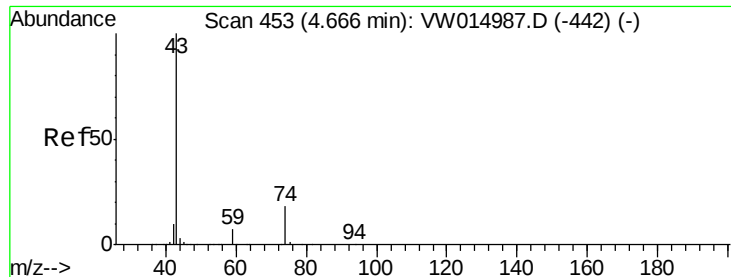
Tgt Ion: 76 Resp: 43160

Ion Ratio Lower Upper

76 100

78 8.4 7.2 10.8





#15

Methyl Acetate

Concen: 0.963 ug/L m

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 7327

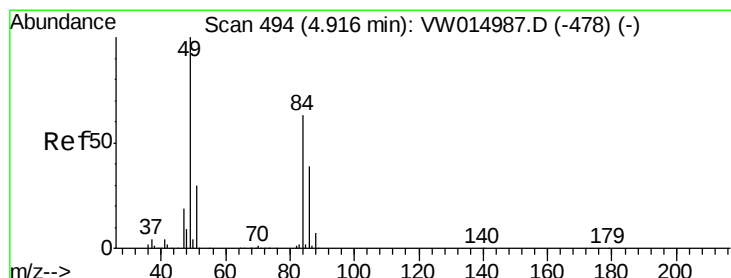
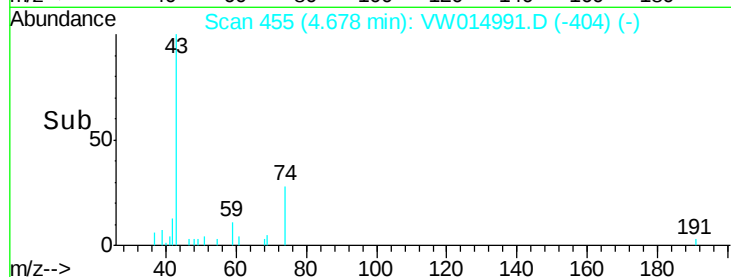
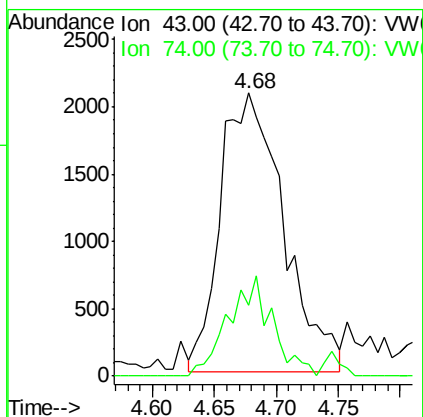
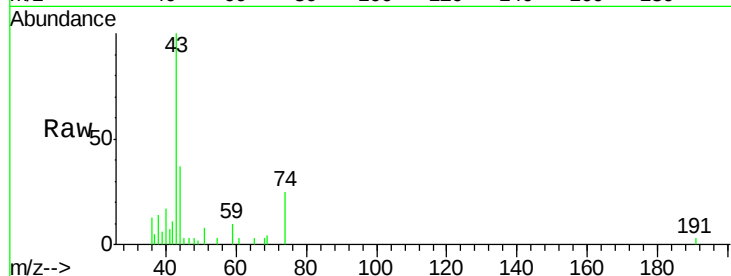
Ion Ratio Lower Upper

43 100

74 23.2 14.6 21.8#

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#16

Methylene chloride

Concen: 2.936 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

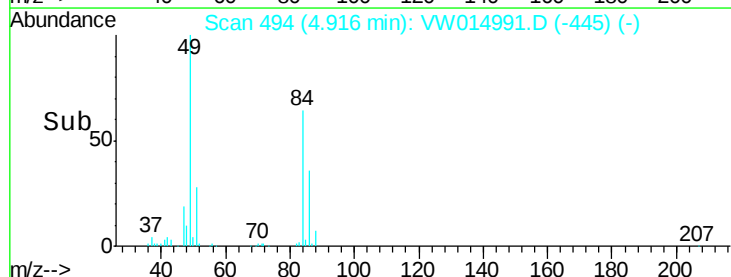
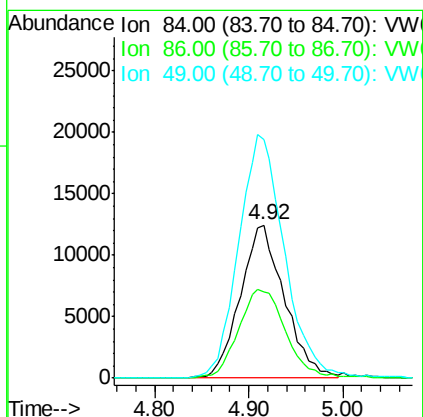
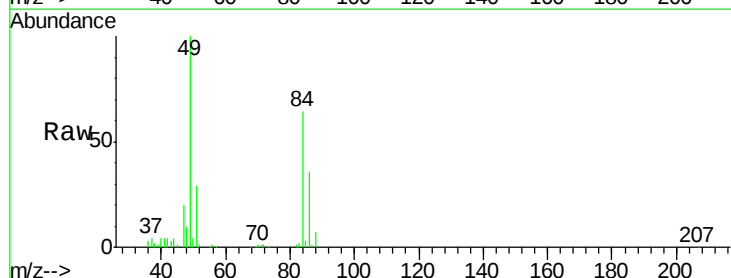
Tgt Ion: 84 Resp: 40587

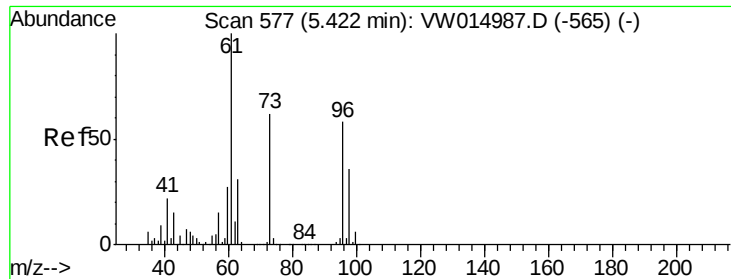
Ion Ratio Lower Upper

84 100

86 56.4 44.4 82.4

49 156.0 109.0 202.4





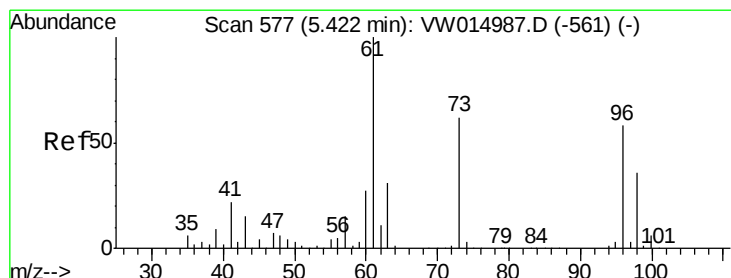
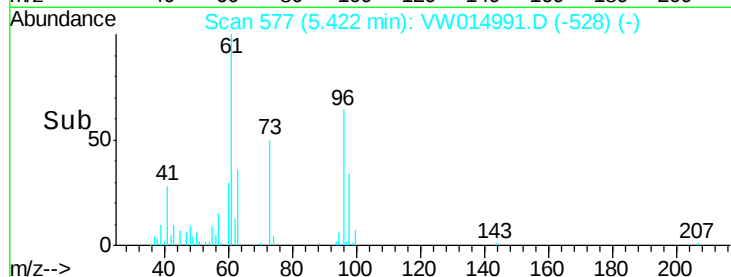
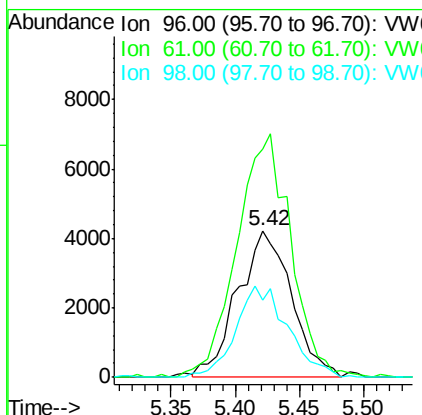
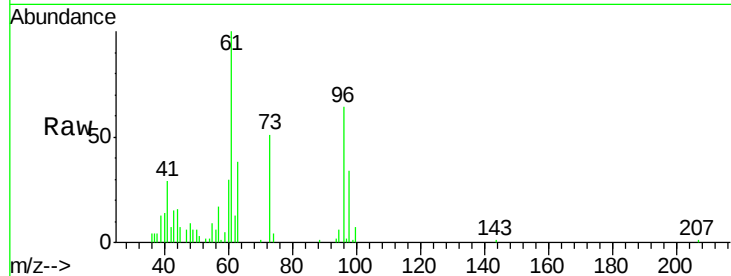
#17
trans-1,2-Dichloroethene
Concen: 1.093 ug/L m
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.2	120.1	223.1
98	52.9	43.8	81.3

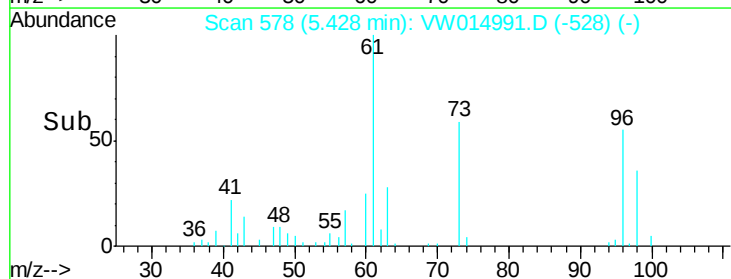
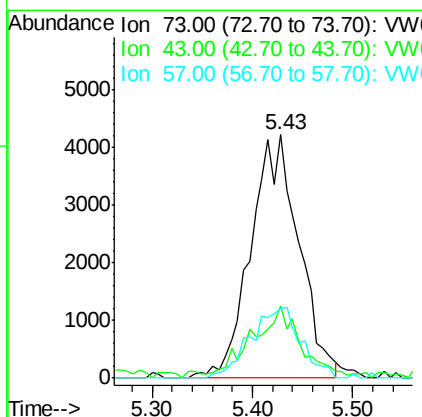
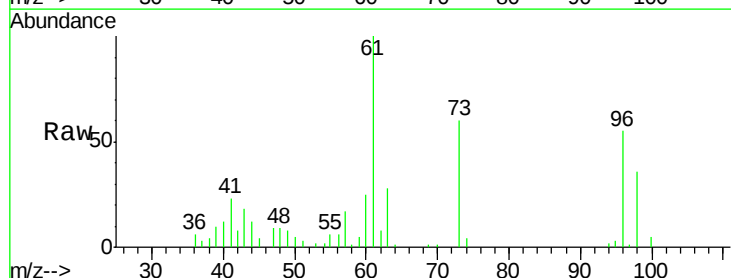
Manual Integrations
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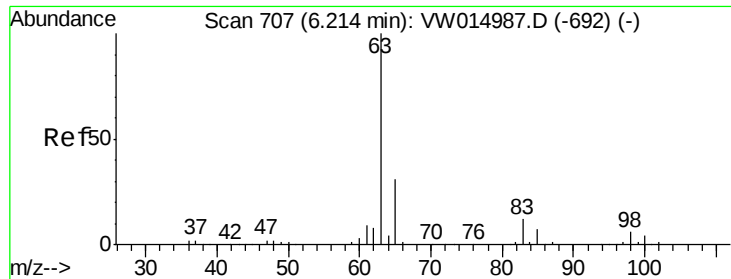
MMDadoda
2/17/2020 3:46:14 PM



#18
Methyl tert-butyl Ether
Concen: 1.010 ug/L m
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.8	19.6	29.4#
57	2.1	21.0	31.4#





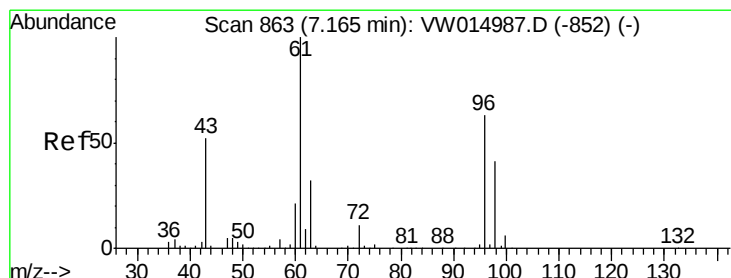
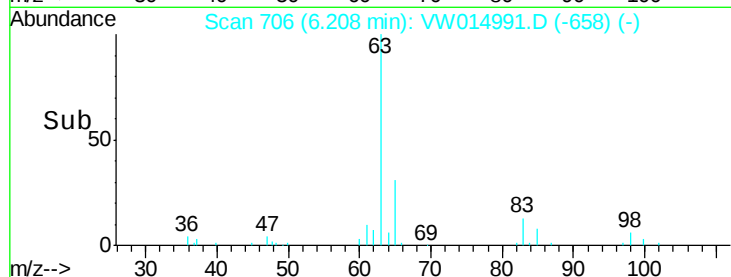
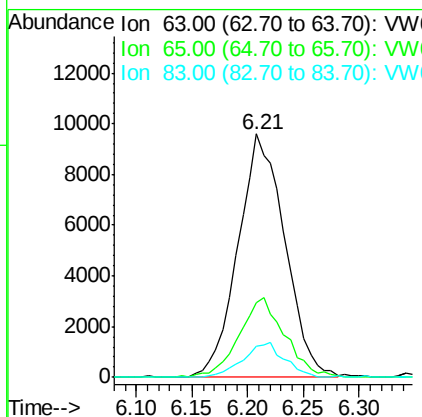
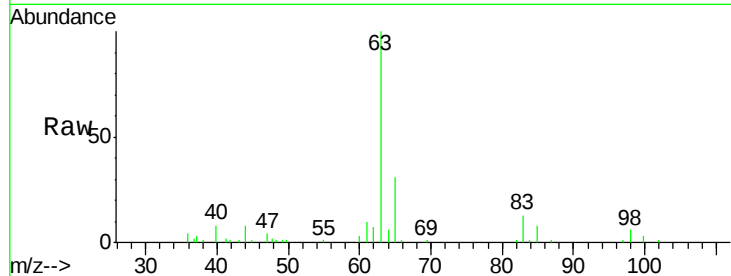
#19
 1,1-Dichloroethane
 Concen: 1.119 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Tot Ion:	63	Resp:	28125
Ion	Ratio	Lower	Upper
63	100		
65	30.5	20.9	38.7
83	12.6	7.8	14.6

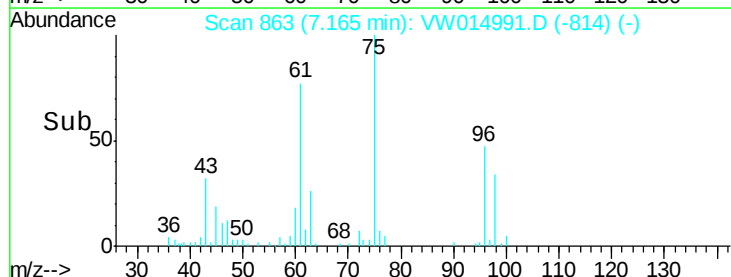
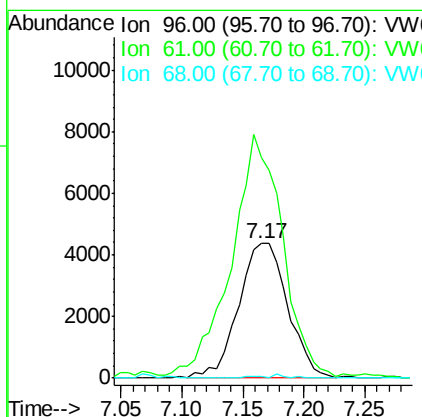
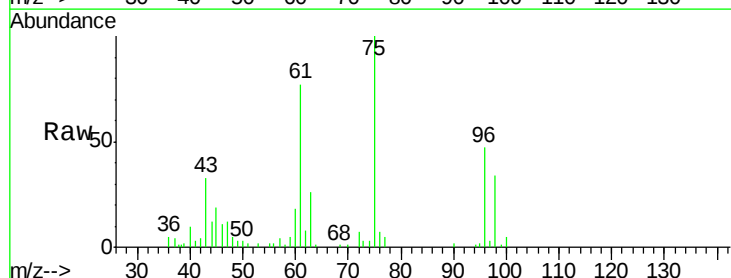
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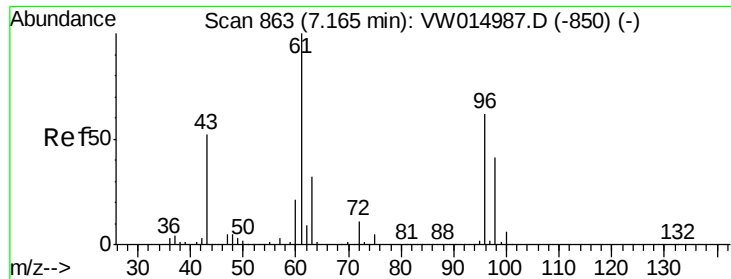
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 1.061 ug/L m
 RT: 7.17 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Tgt Ion:	96	Resp:	12297
Ion	Ratio	Lower	Upper
96	100		
61	163.7	111.5	207.1
68	1.7	0.0	0.0#





#22

2-Butanone

Concen: 2.772 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampled :

MDL04

Tot Ion: 43 Resp: 14606

Ion Ratio Lower Upper

43 100

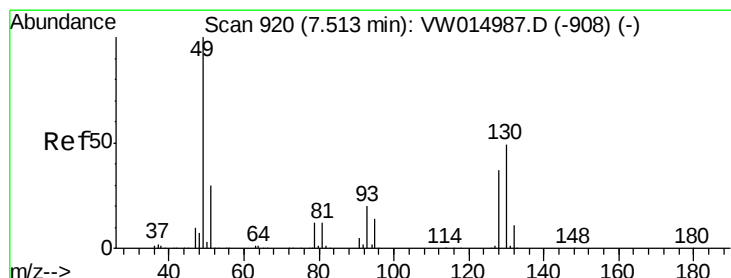
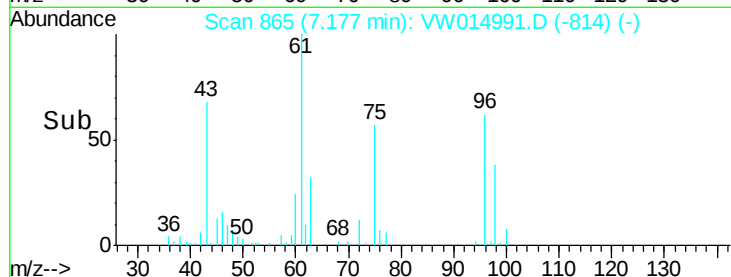
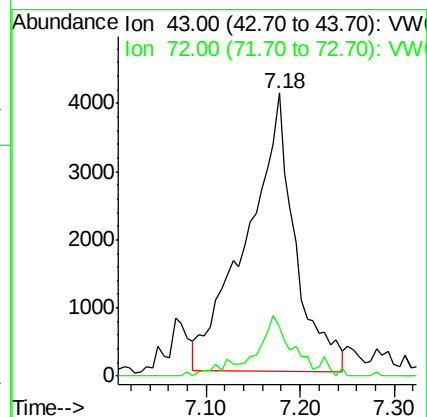
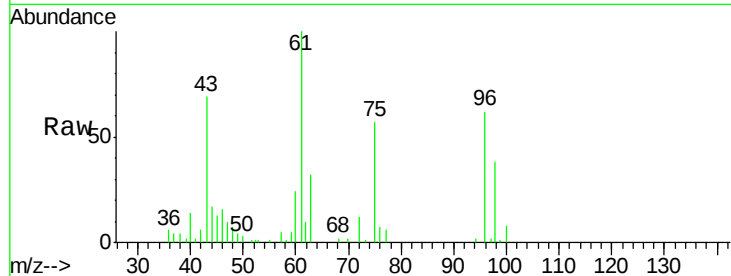
72 13.9 11.1 33.1

Manual Integrations

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#23

Bromochloromethane

Concen: 1.139 ug/L

RT: 7.52 min Scan# 921

Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Tgt Ion: 128 Resp: 5358

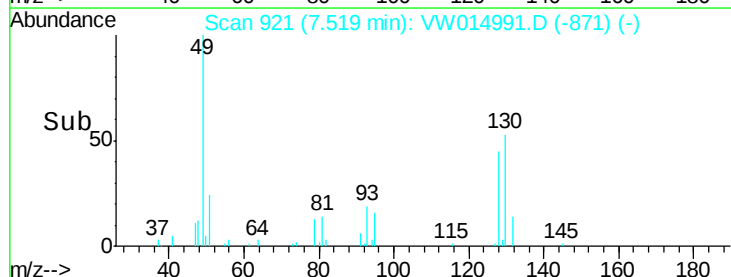
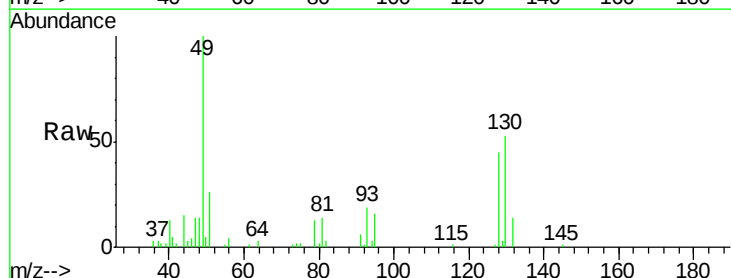
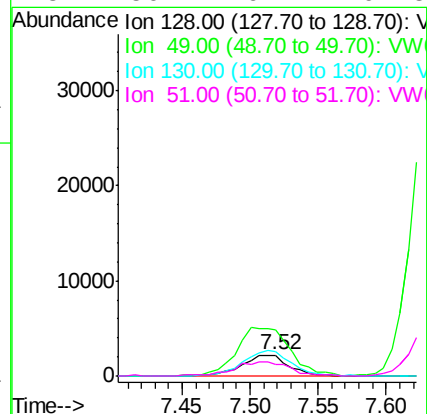
Ion Ratio Lower Upper

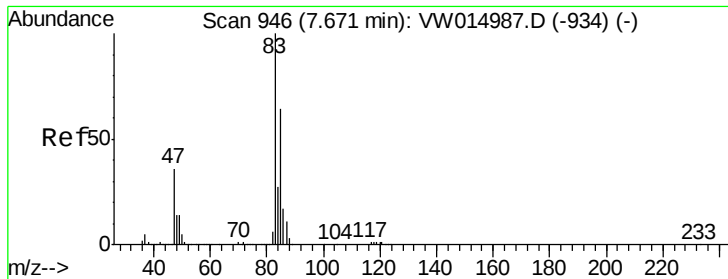
128 100

49 221.1 179.0 332.4

130 116.5 85.5 158.7

51 56.7 61.7 92.5#





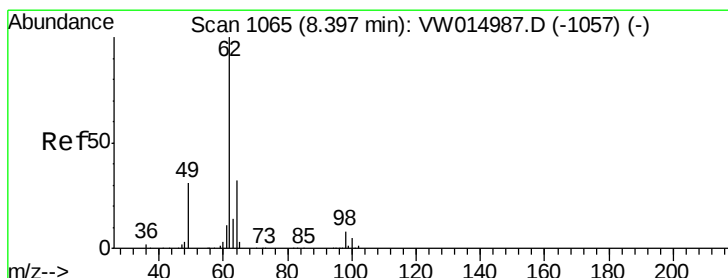
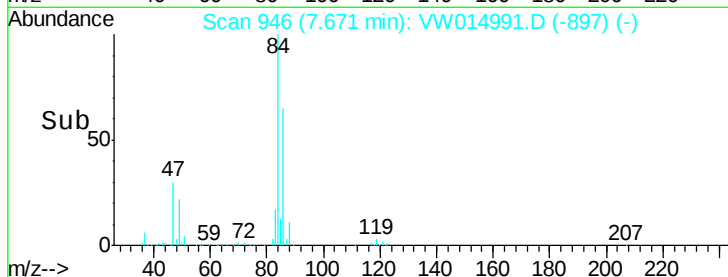
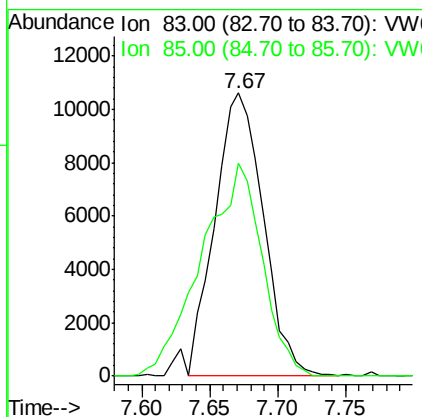
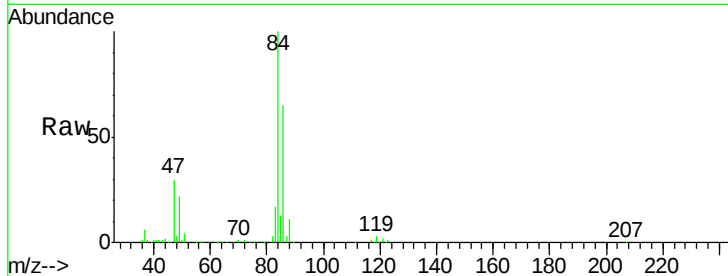
#25
Chloroform
Concen: 1.173 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampleId :
MDL04

Tot Ion	83	Resp	26265
Ion Ratio	100	Lower	Upper
85	75.4	45.1	83.7

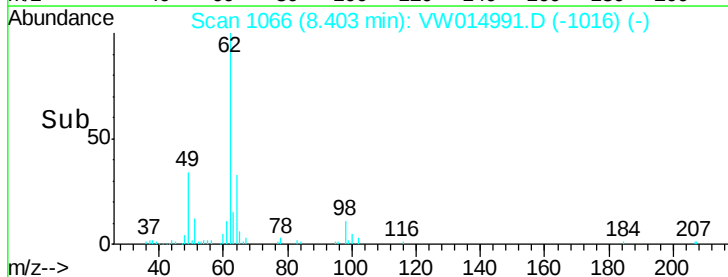
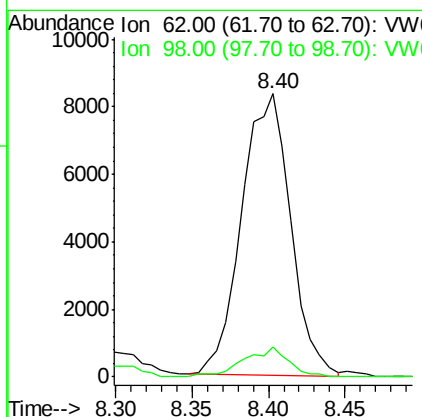
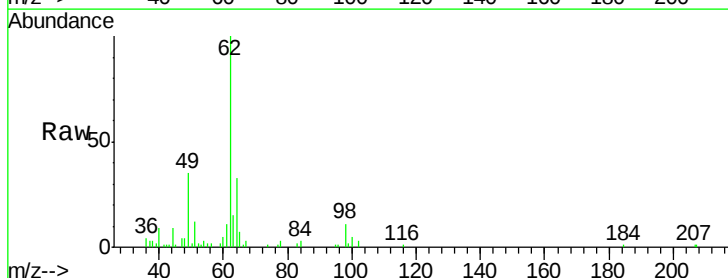
Manual Integrations
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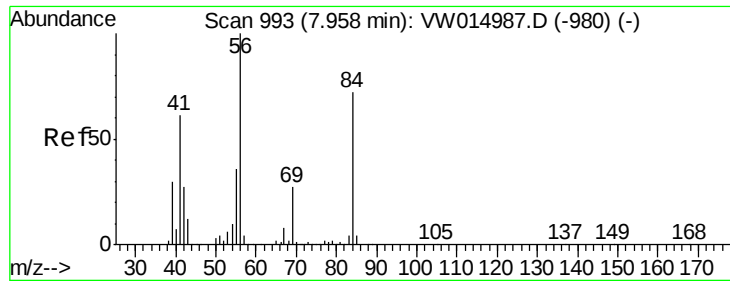
MMDadoda
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#27
1,2-Dichloroethane
Concen: 1.128 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion	62	Resp	18562
Ion Ratio	100	Lower	Upper
98	10.6	6.2	9.4#





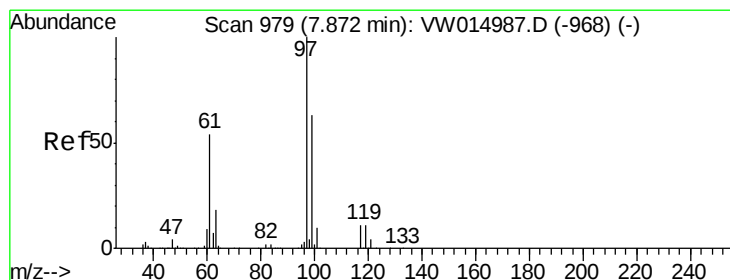
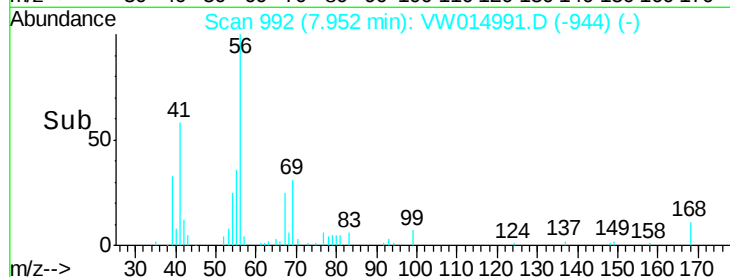
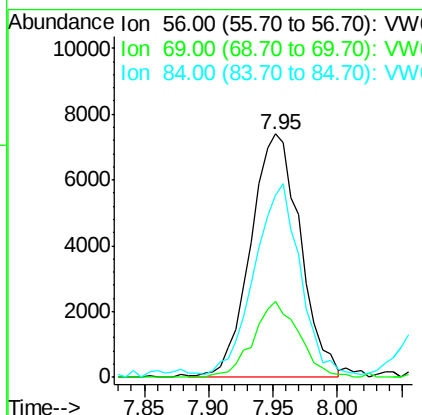
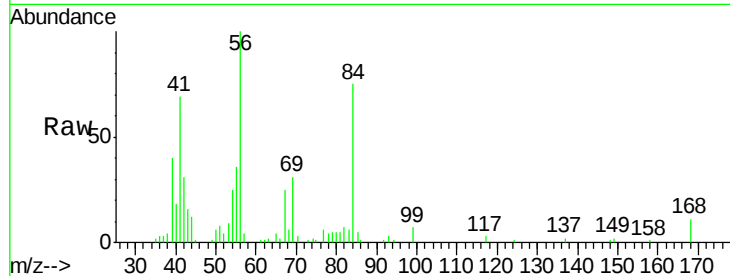
#29
Cyclohexane
Concen: 0.872 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.8	22.0	33.0
84	73.4	57.8	86.6

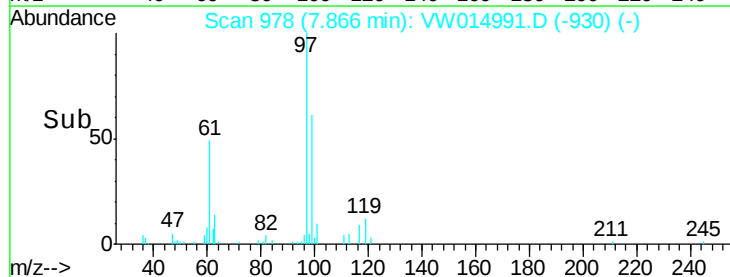
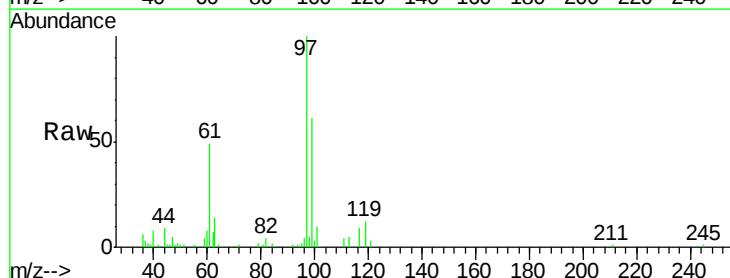
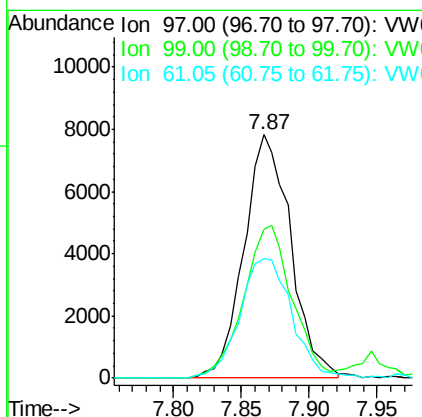
Manual Integrations
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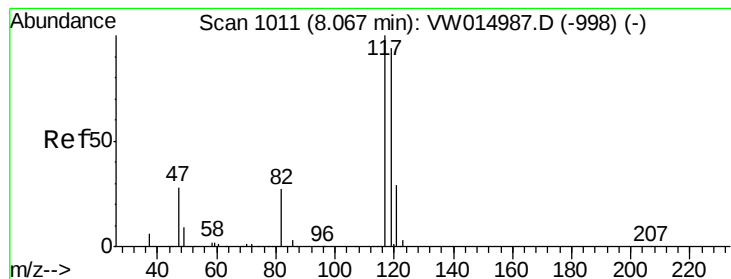
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 1.115 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.6	75.8
61	54.7	42.7	64.1





#31

Carbon tetrachloride

Concen: 1.103 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tot Ion:117 Resp: 16803

Ion Ratio Lower Upper

117 100

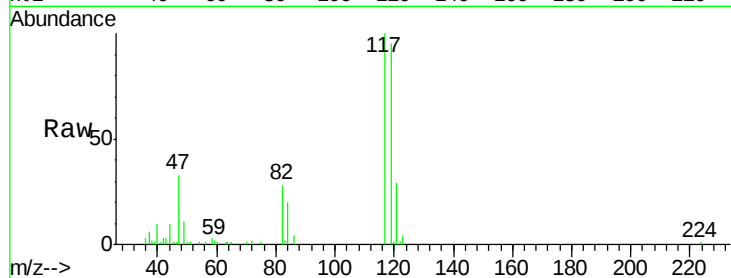
119 95.0 76.6 114.8

Manual Integrations

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8000

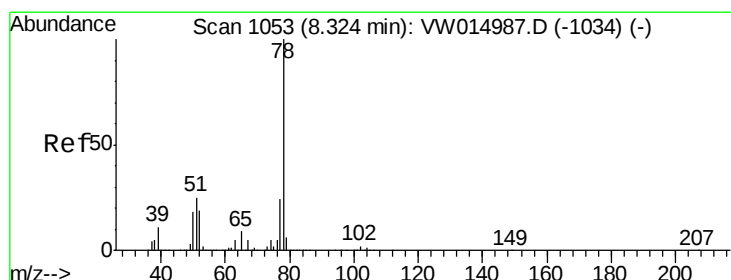
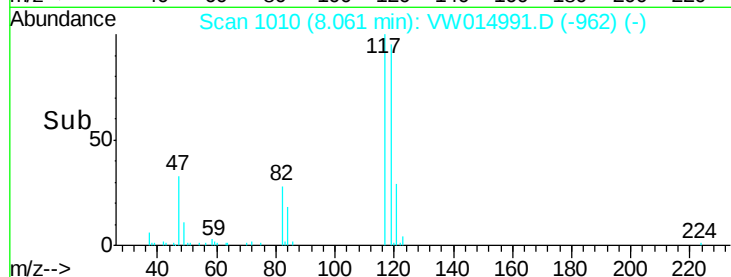
6000

4000

2000

0

Time-->



#33

Benzene

Concen: 1.110 ug/L

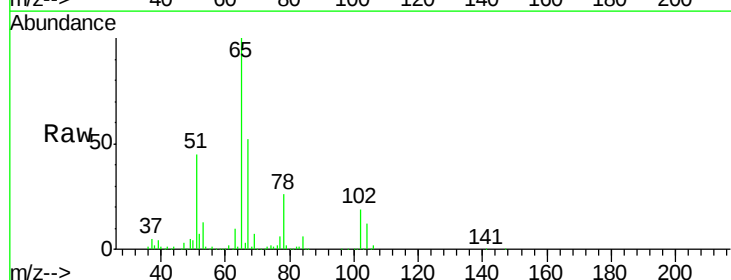
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Tgt Ion: 78 Resp: 56629



Abundance Ion 78.00 (77.70 to 78.70): VW

25000

20000

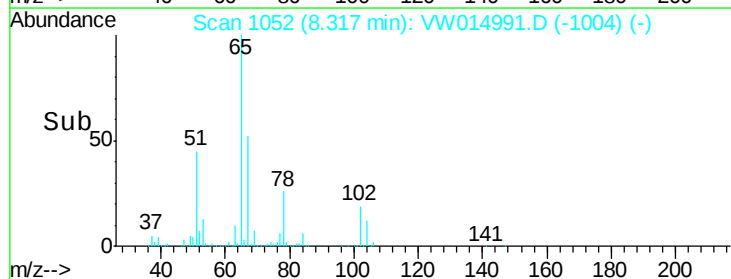
15000

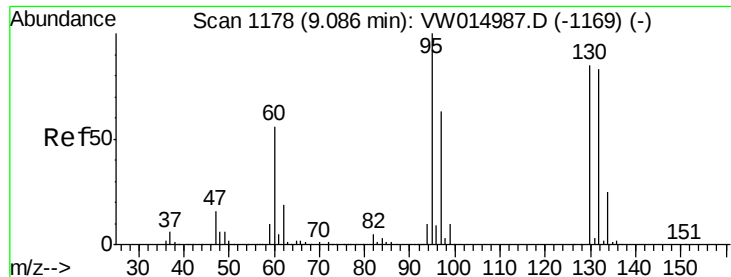
10000

5000

0

Time-->





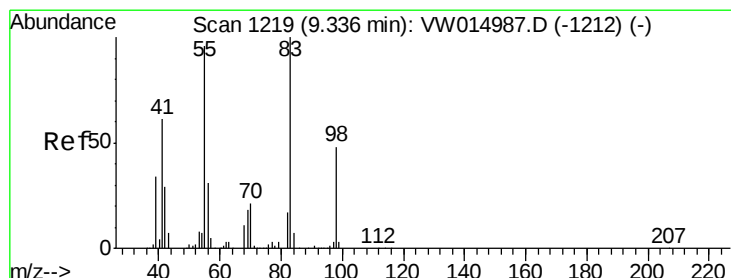
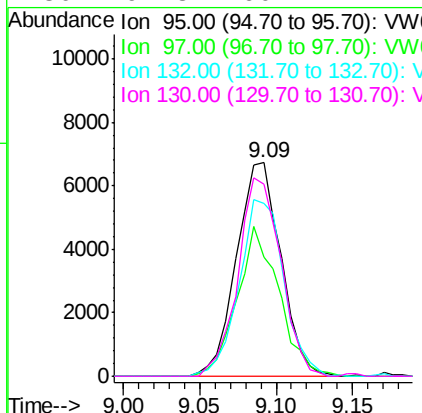
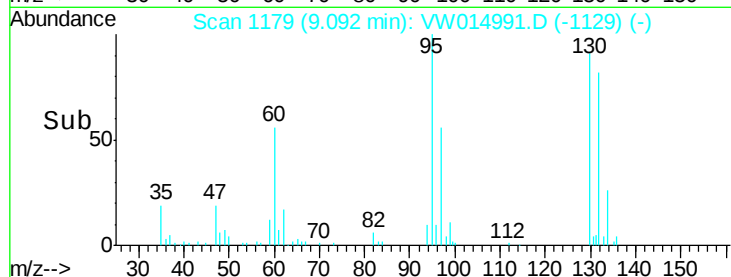
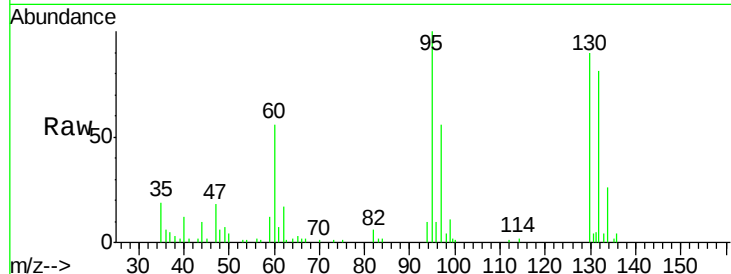
#34
 Trichloroethene
 Concen: 1.111 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampled :
 MDL04

Tot Ion:	95	Resp:	13567
Ion	Ratio	Lower	Upper
95	100		
97	55.8	44.2	82.0
132	81.0	56.1	104.3
130	94.3	60.1	111.7

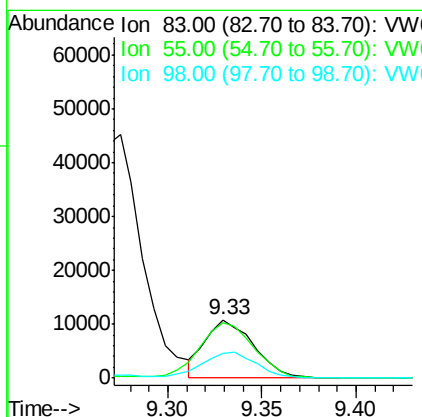
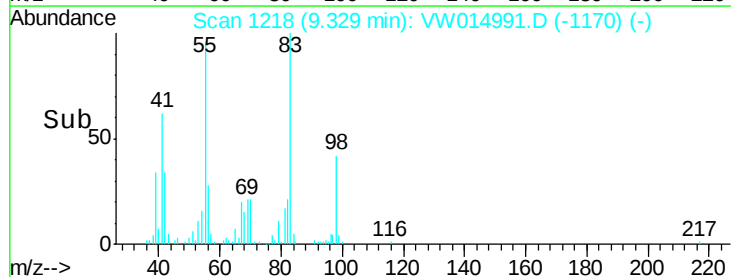
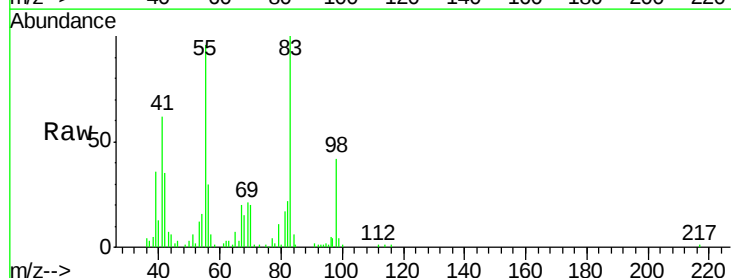
Manual Integrations
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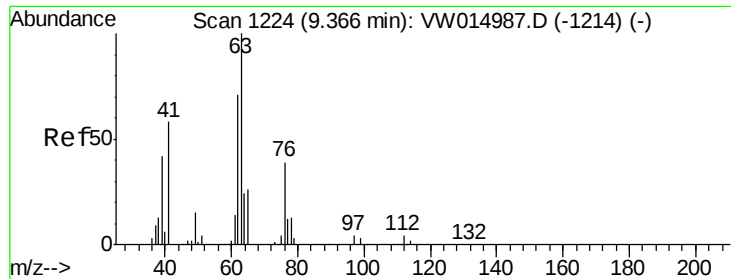
MMDadoda
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#35
 Methylcyclohexane
 Concen: 0.922 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Tgt Ion:	83	Resp:	19425
Ion	Ratio	Lower	Upper
83	100		
55	107.7	76.3	114.5
98	50.3	36.4	54.6





#37

1,2-Dichloropropane

Concen: 1.063 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampled :

MDL04

Tot Ion: 63 Resp: 15136

Ion Ratio Lower Upper

63 100

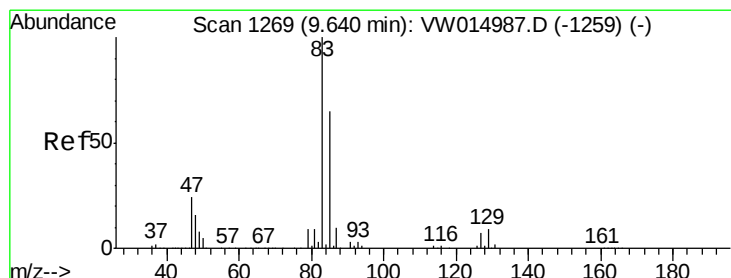
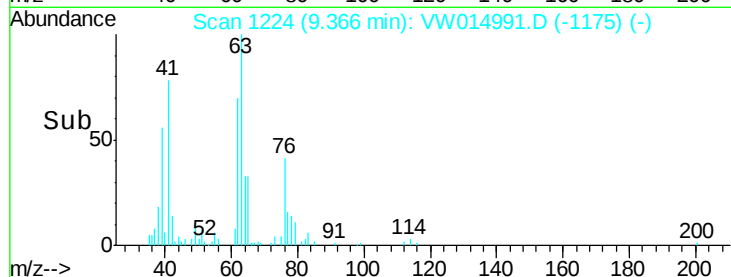
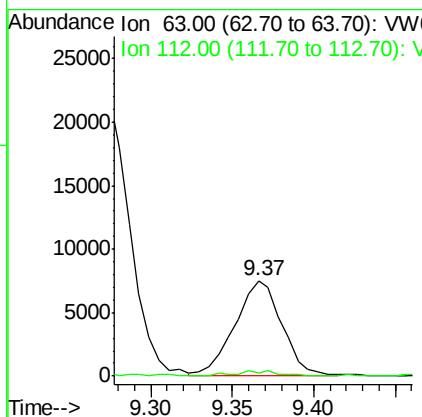
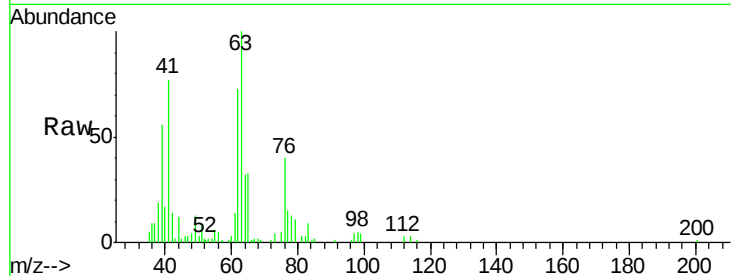
112 1.8 2.6 4.0#

Manual Integrations

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MMDadoda

2/17/2020 3:46:14 PM



#38

Bromodichloromethane

Concen: 1.055 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

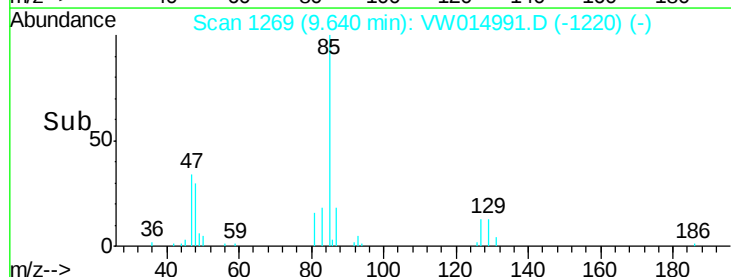
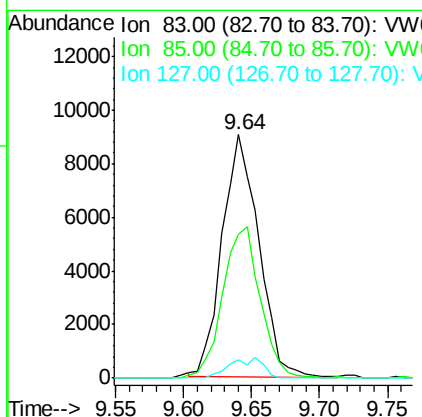
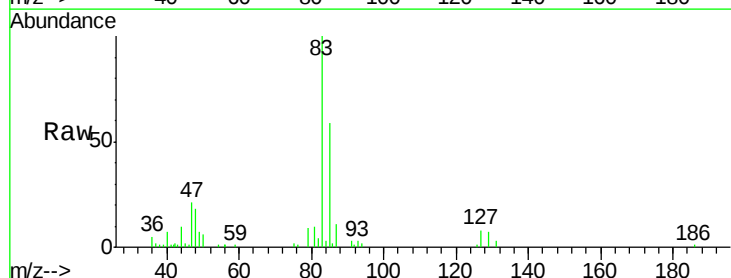
Tgt Ion: 83 Resp: 16926

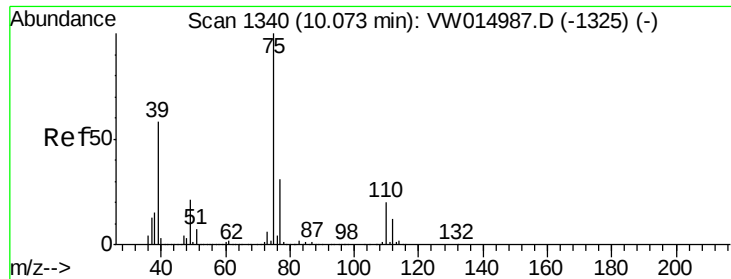
Ion Ratio Lower Upper

83 100

85 58.8 45.2 84.0

127 7.8 5.5 8.3





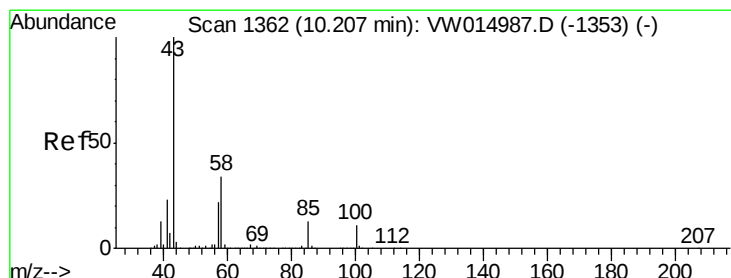
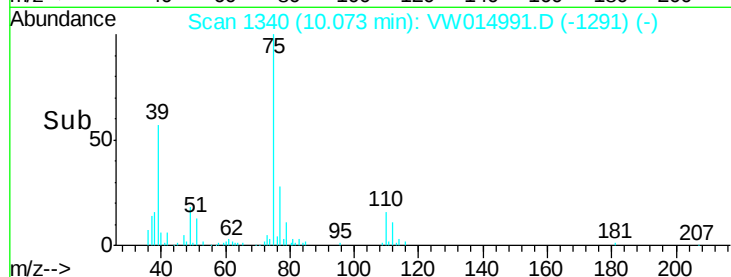
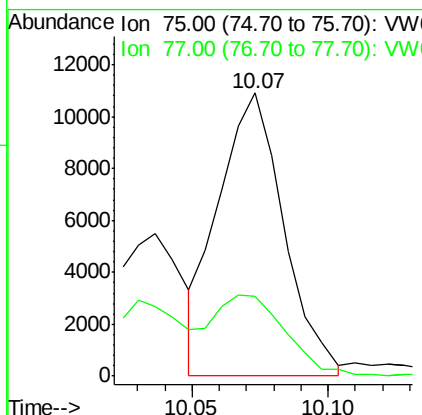
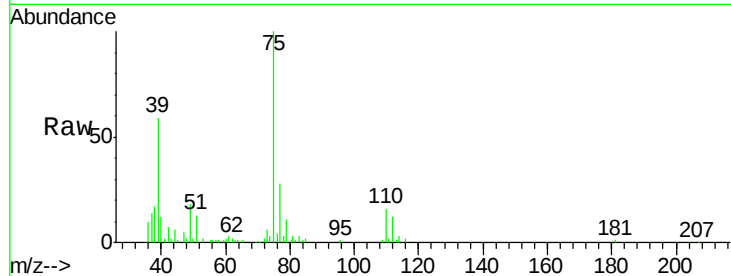
#39
 cis-1,3-Dichloropropene
 Concen: 0.958 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampled :
 MDL04

Tot Ion: 75 Resp: 18263
 Ion Ratio Lower Upper
 75 100
 77 28.2 21.6 40.2

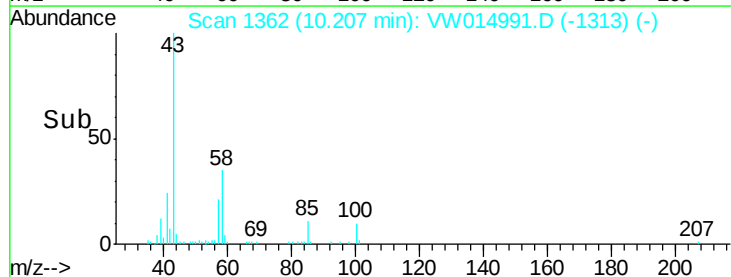
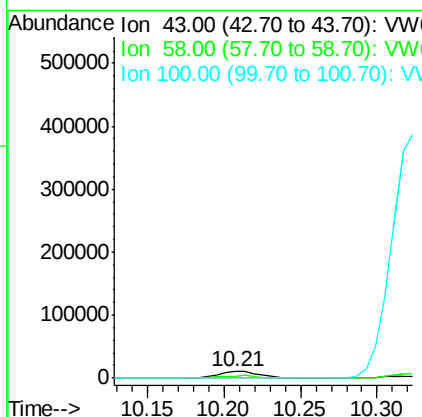
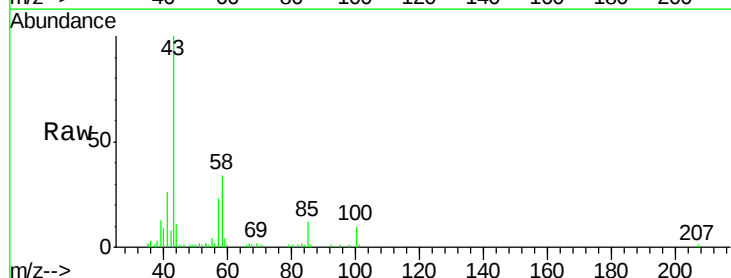
Manual Integrations
 APPROVED

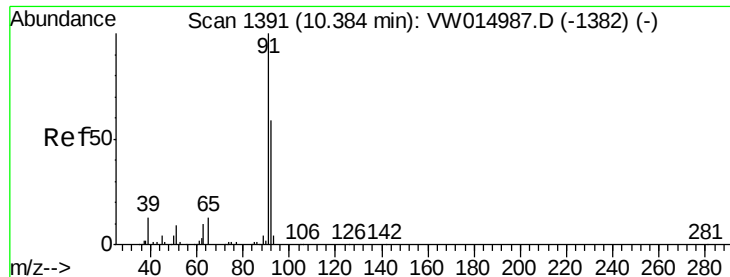
MMDadoda
 2/17/2020 3:46:14 PM



#40
 4-Methyl-2-pentanone
 Concen: 1.889 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Tgt Ion: 43 Resp: 19152
 Ion Ratio Lower Upper
 43 100
 58 34.1 27.7 41.5
 100 10.4 8.6 13.0





#42

Toluene

Concen: 1.135 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 55952

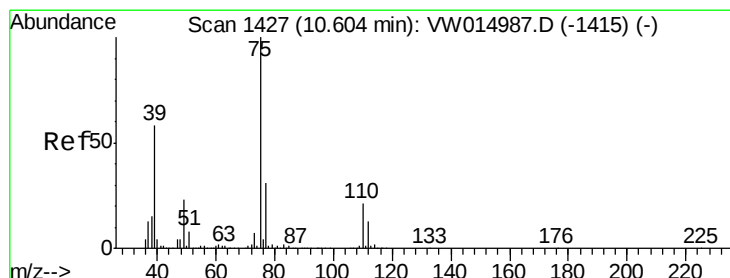
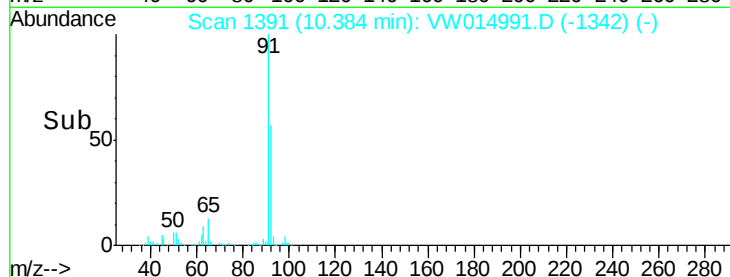
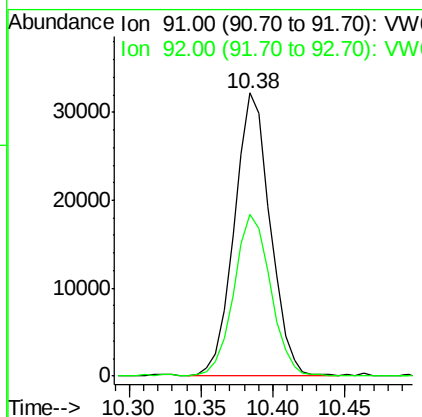
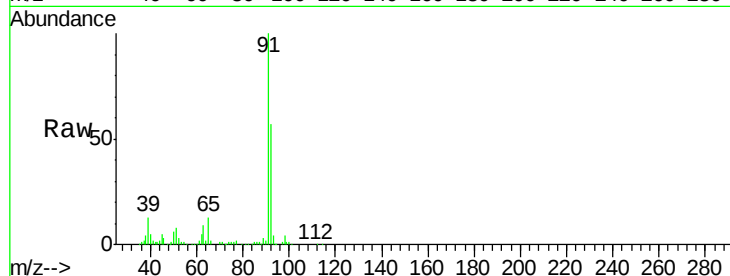
Ion Ratio Lower Upper

91 100

92 57.3 39.5 73.3

Manual Integrations
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MMDadoda
2/17/2020 3:46:14 PM



#44

trans-1,3-Dichloropropene

Concen: 0.999 ug/L m

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014991.D

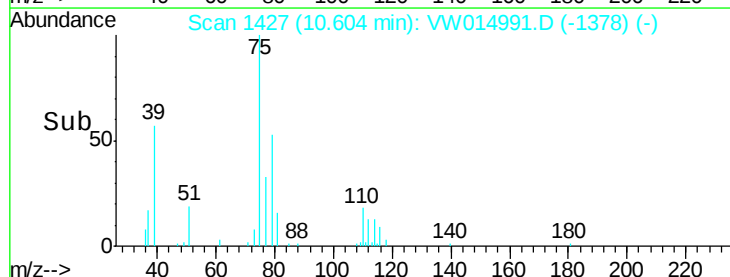
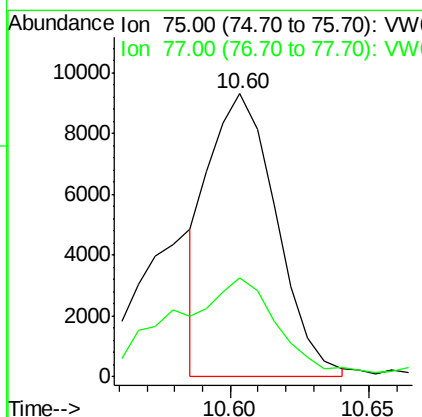
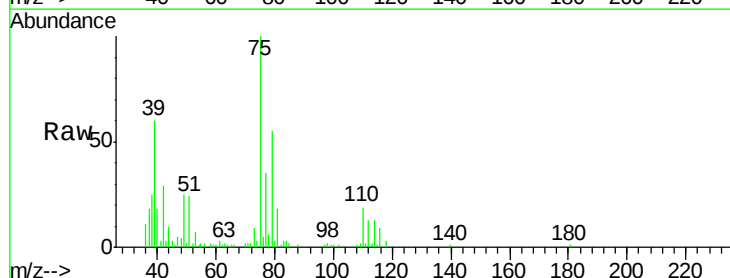
Acq: 14 Feb 2020 12:26

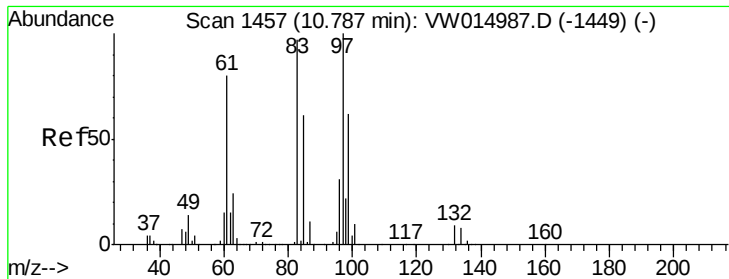
Tgt Ion: 75 Resp: 15785

Ion Ratio Lower Upper

75 100

77 35.0 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 1.100 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

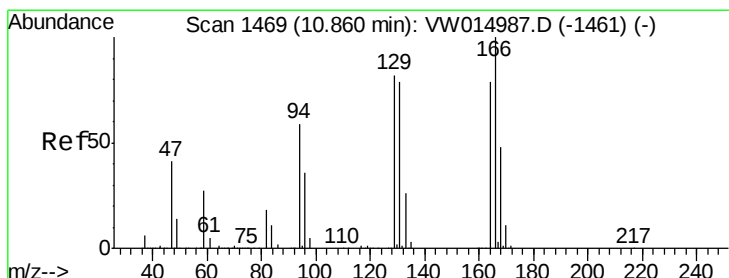
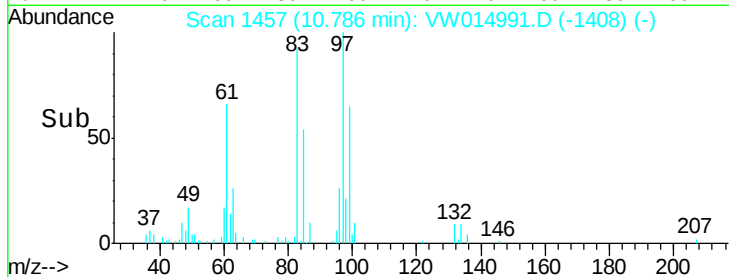
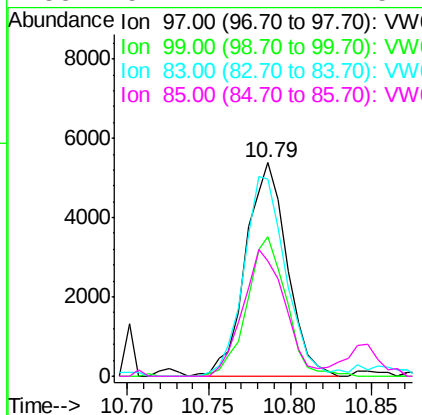
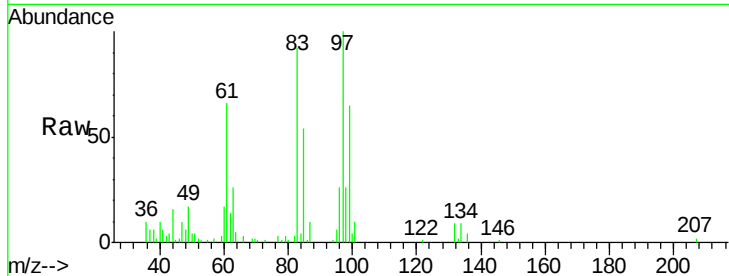
ClientSampled :

MDL04

Tot Ion:	97	Resp:	9504
Ion	Ratio	Lower	Upper
97	100		
99	65.5	44.2	82.0
83	92.1	64.1	119.1
85	54.1	42.1	78.1

Manual Integrations
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#46

Tetrachloroethene

Concen: 1.092 ug/L

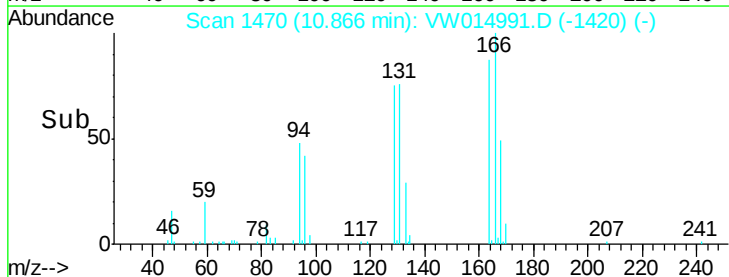
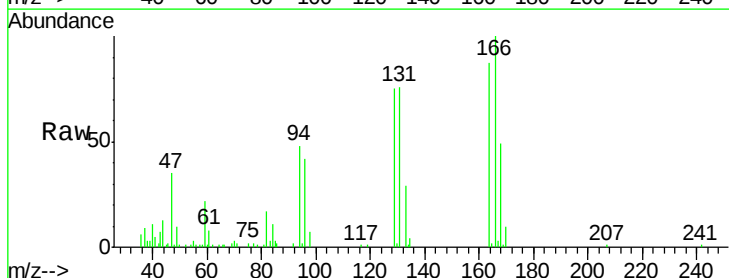
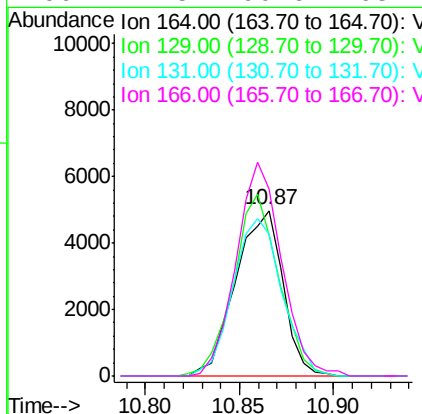
RT: 10.87 min Scan# 1470

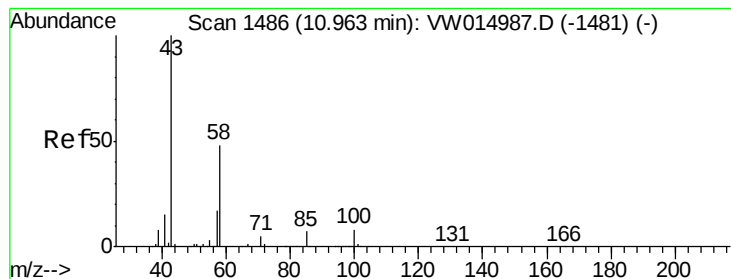
Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Tgt Ion:	164	Resp:	8659
Ion	Ratio	Lower	Upper
164	100		
129	87.5	72.2	134.2
131	85.9	68.1	126.5
166	112.5	90.6	168.2





#48

2-Hexanone

Concen: 2.101 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

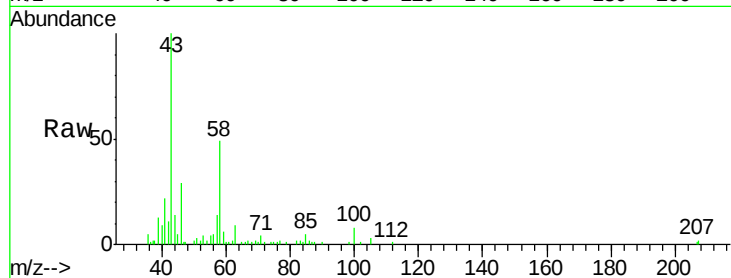
ClientSampleId :

MDL04

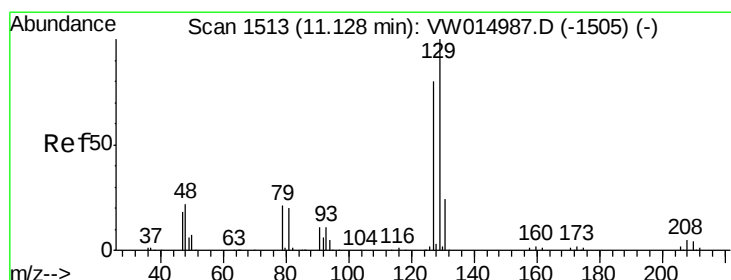
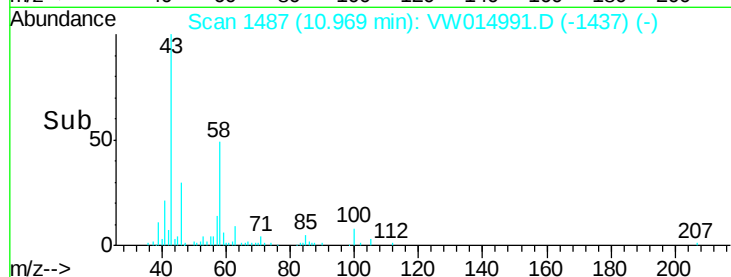
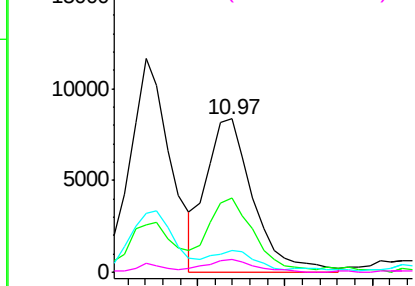
Tot Ion:	43	Resp:	15523
Ion	Ratio	Lower	Upper
43	100		
58	48.2	39.2	58.8
57	12.5	13.1	19.7#
100	9.0	7.0	10.4

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Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW



#49

Dibromochloromethane

Concen: 1.003 ug/L

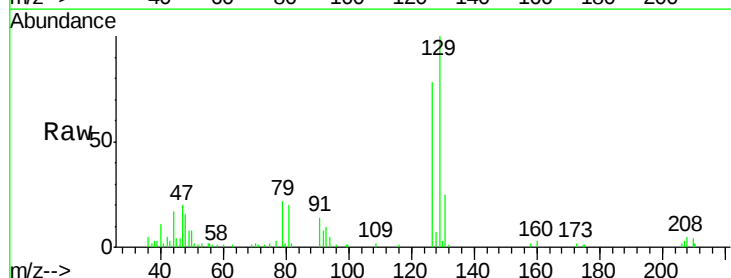
RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

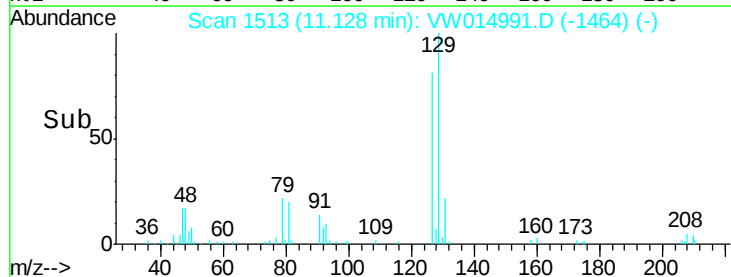
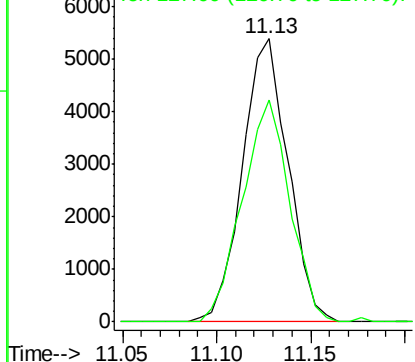
Lab File: VW014991.D

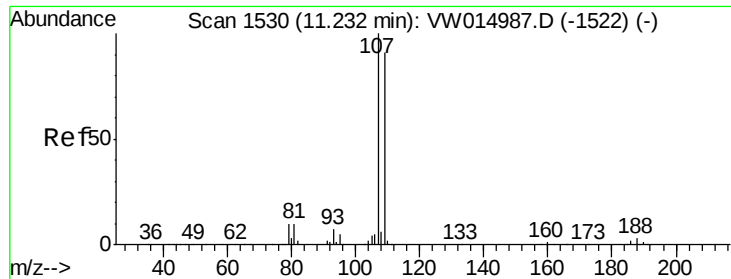
Acq: 14 Feb 2020 12:26

Tgt Ion:	129	Resp:	9032
Ion	Ratio	Lower	Upper
129	100		
127	78.4	53.0	98.4



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





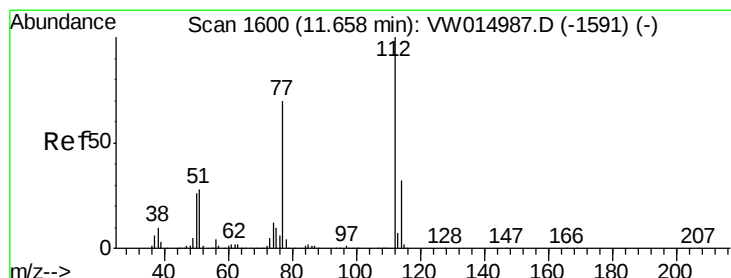
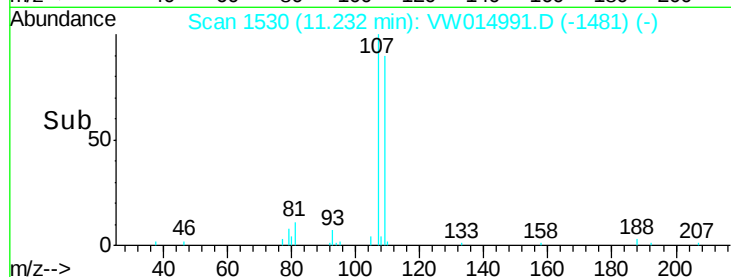
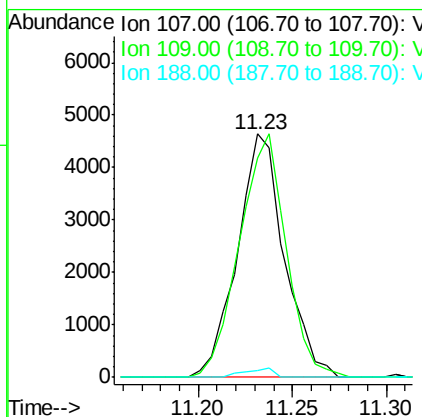
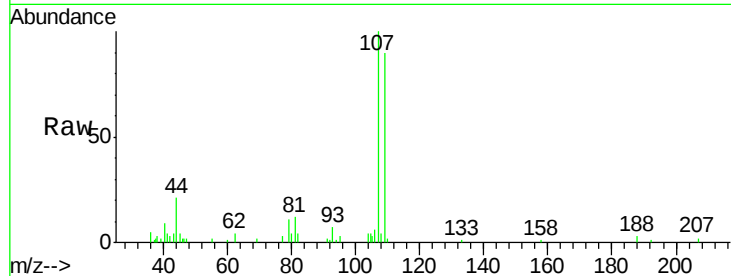
#50
1,2-Dibromoethane
Concen: 1.030 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampled :
MDL04

Tot Ion:	107	Resp:	8021
Ion Ratio	Lower	Upper	
107	100		
109	90.1	65.1	120.9
188	3.1	2.4	3.6

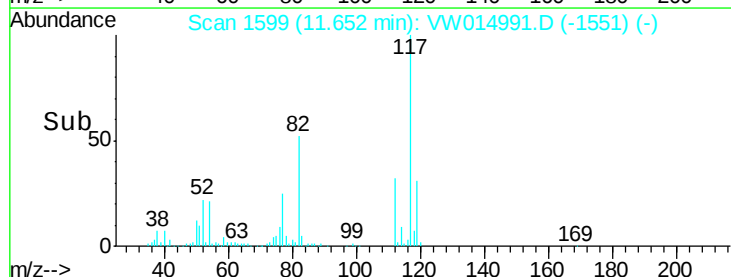
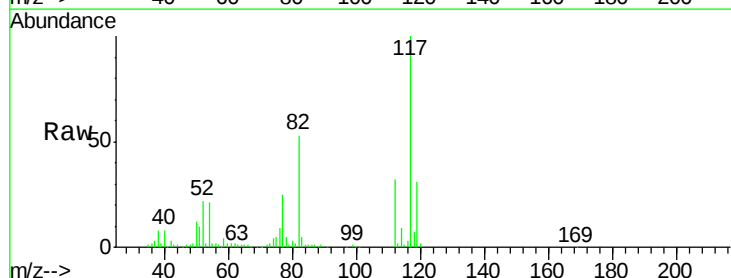
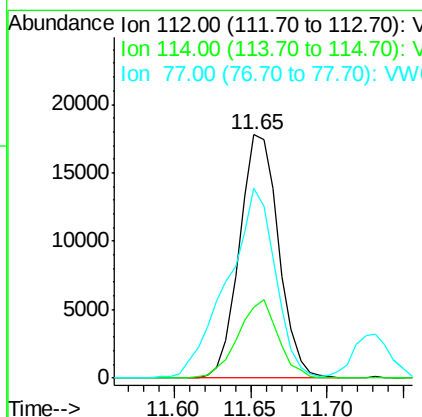
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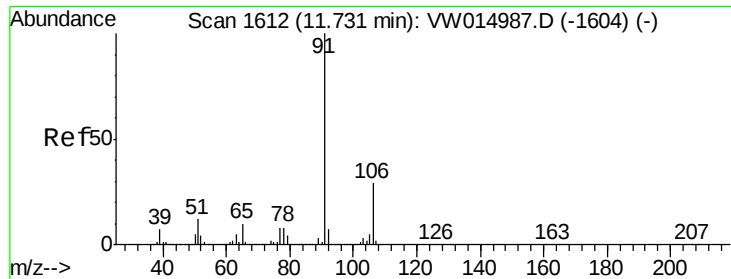
MMDadoda
2/17/2020 3:46:14 PM



#51
Chlorobenzene
Concen: 1.090 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion:	112	Resp:	31681
Ion Ratio	Lower	Upper	
112	100		
114	29.3	22.6	42.0
77	78.2	54.6	82.0





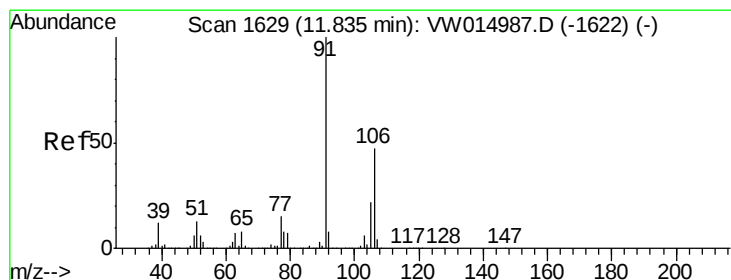
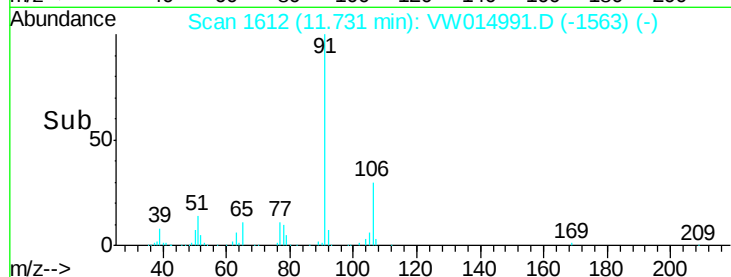
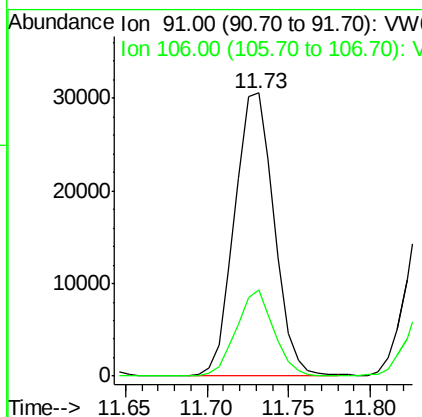
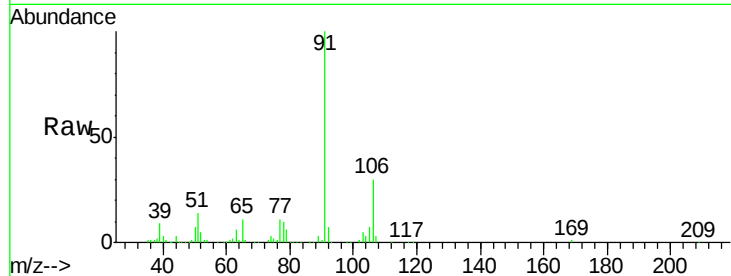
#52
Ethylbenzene
Concen: 0.965 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampleId :
MDL04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		51815		
106	30.4		20.2	37.4	

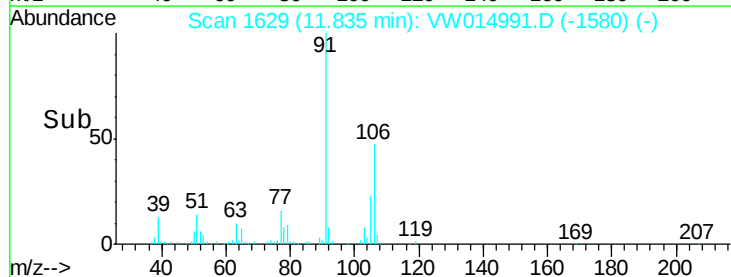
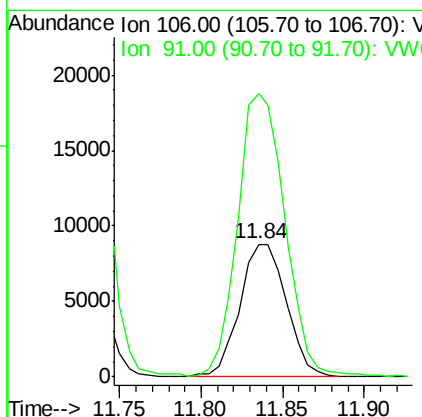
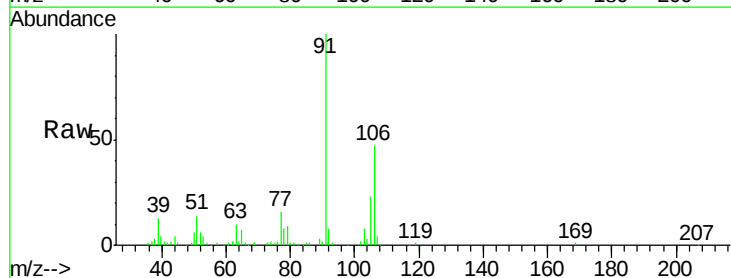
Manual Integrations
APPROVED

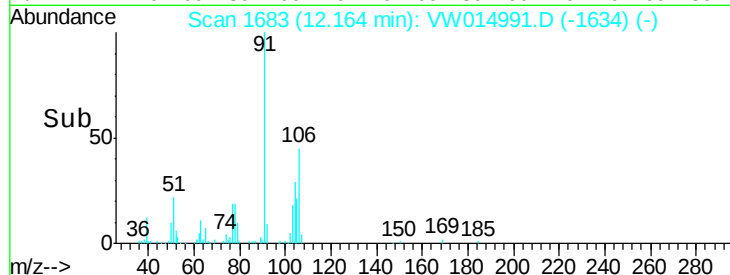
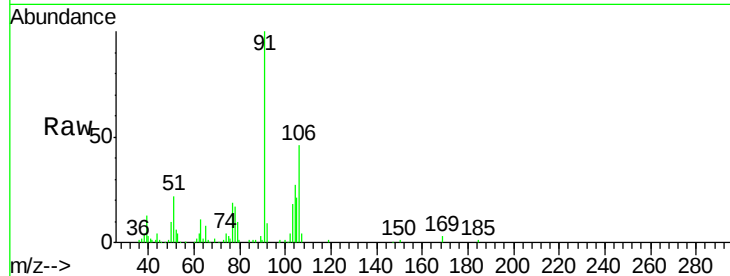
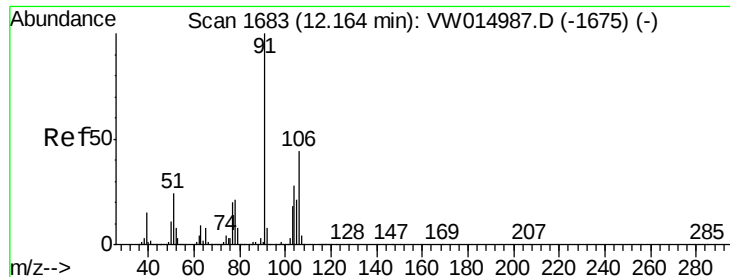
MMDadoda
2/17/2020 3:46:14 PM



#53
m,p-Xylene
Concen: 0.929 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		17505		
91	213.6		149.2	277.2	





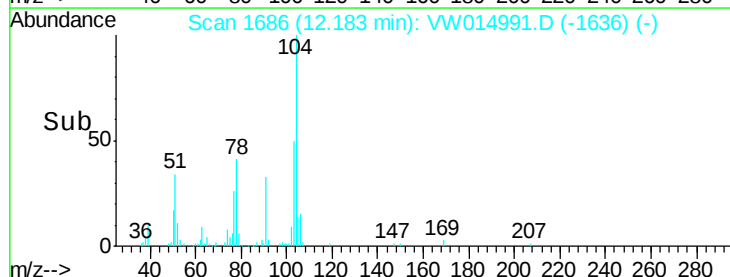
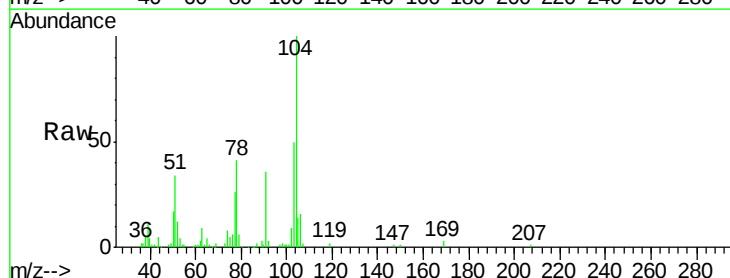
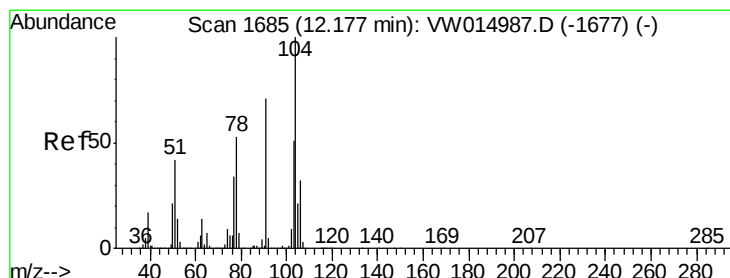
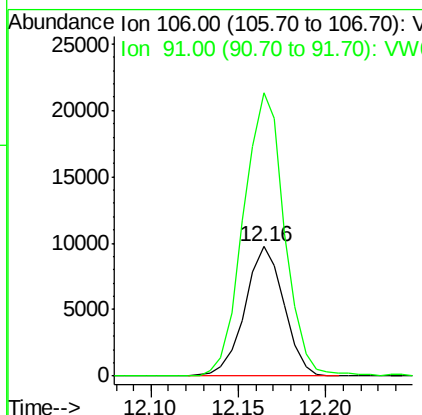
#54
o-Xylene
Concen: 0.863 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tot Ion:106 Resp: 15270
Ion Ratio Lower Upper
106 100
91 218.7 163.7 304.1

Instrument :
MSVOA_W
ClientSampled :
MDL04

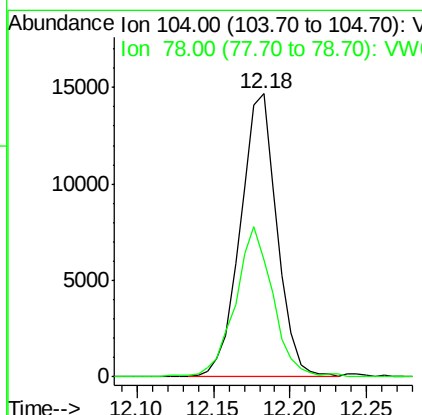
Manual Integrations
APPROVED

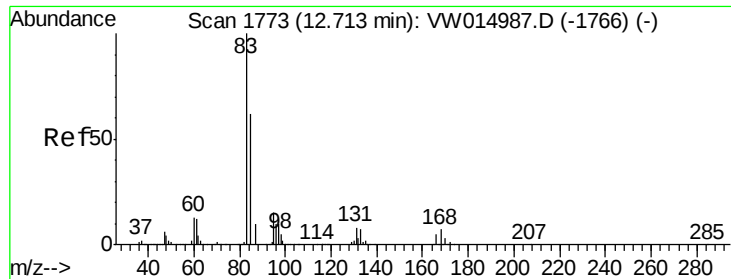
MMDadoda
2/17/2020 3:46:14 PM



#55
Styrene
Concen: 0.799 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion:104 Resp: 24348
Ion Ratio Lower Upper
104 100
78 41.2 36.8 68.4





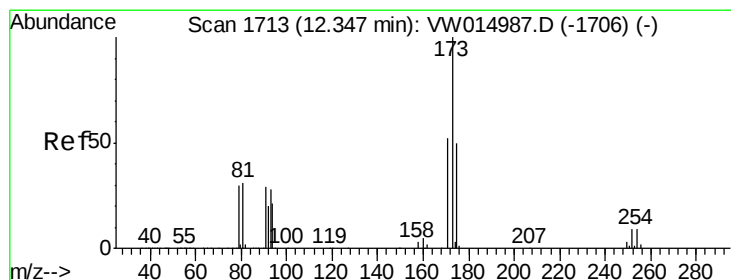
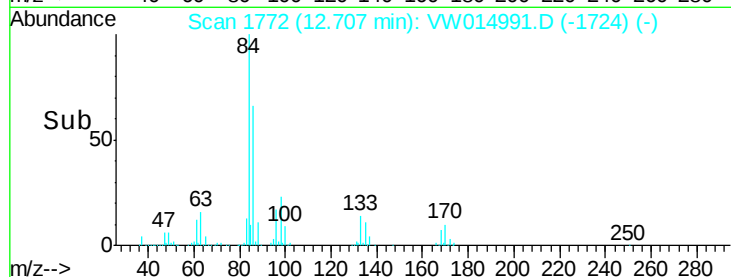
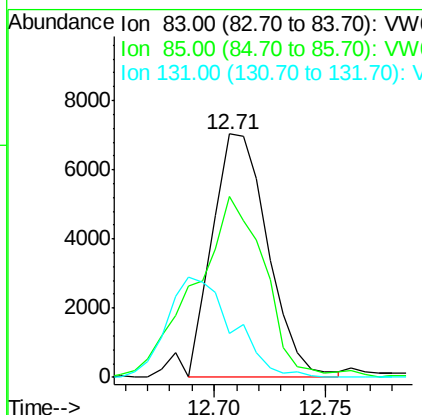
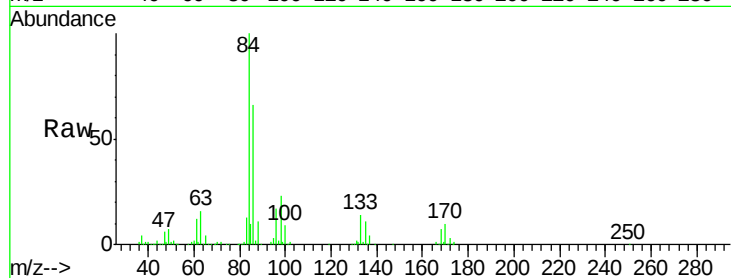
#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.051 ug/L
 RT: 12.71 min Scan# 1772
 Delta R.T. -0.01 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
83	100		
85	74.1	44.9	83.5
131	17.9	6.2	9.2#

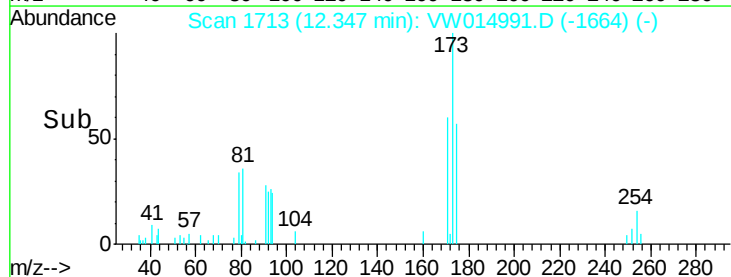
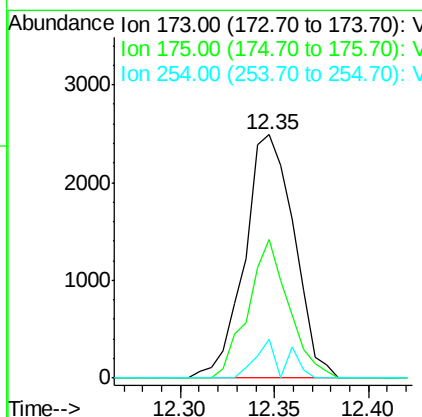
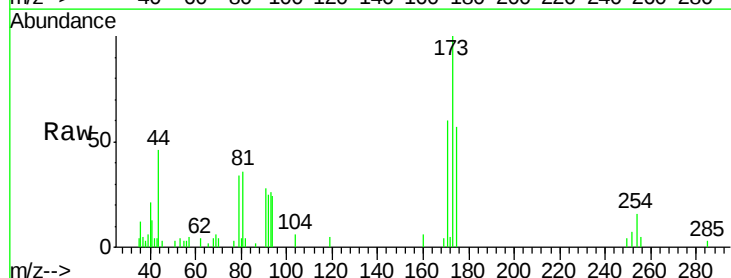
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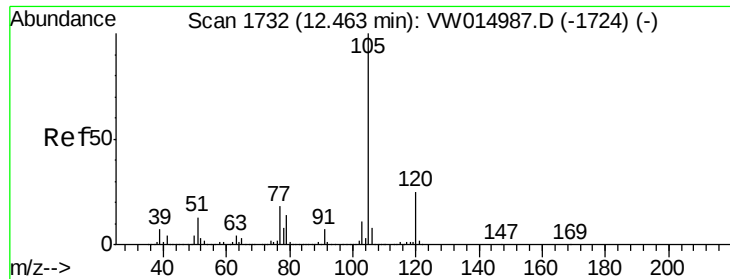
MMDadoda
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#59
 Bromoform
 Concen: 1.105 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.2	39.0	58.4
254	5.9	7.1	10.7#





#60

Isopropylbenzene

Concen: 0.954 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Instrument :

MSVOA_W

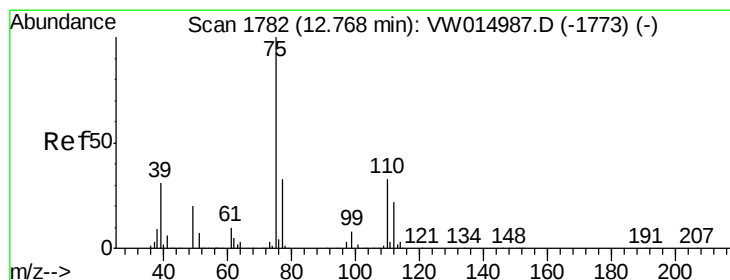
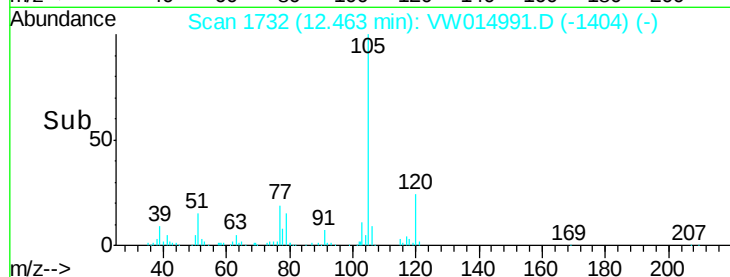
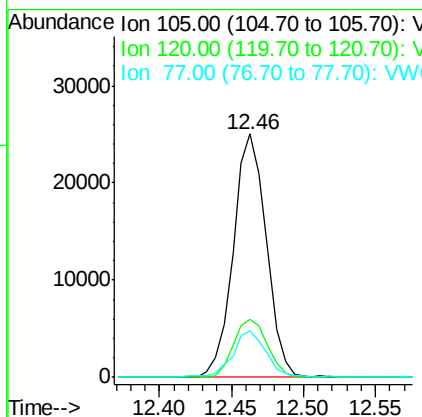
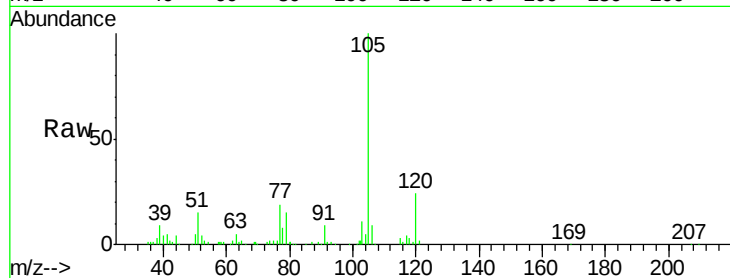
ClientSampled :

MDL04

Tot Ion:	105	Resp:	39995
Ion Ratio	Lower	Upper	
105	100		
120	24.4	20.1	30.1
77	19.4	14.4	21.6

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#61

1,2,3-Trichloropropane

Concen: 1.093 ug/L

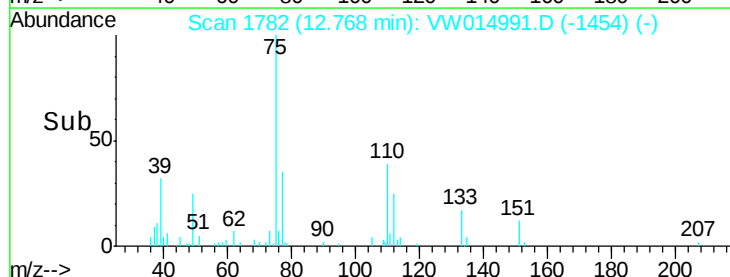
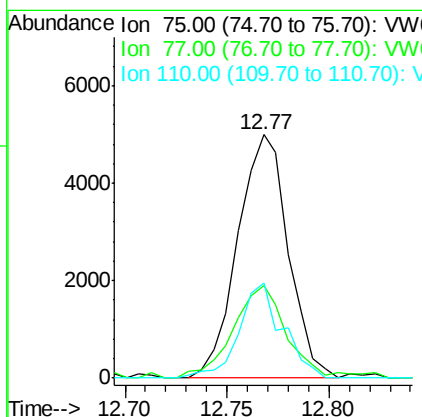
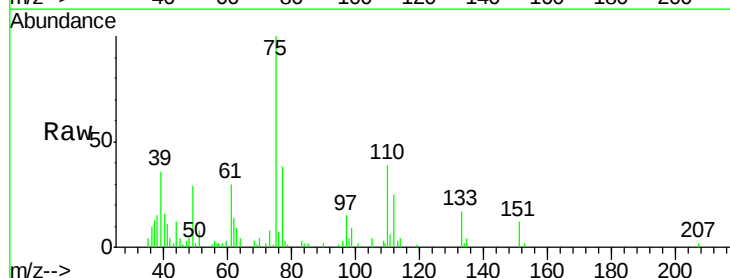
RT: 12.77 min Scan# 1782

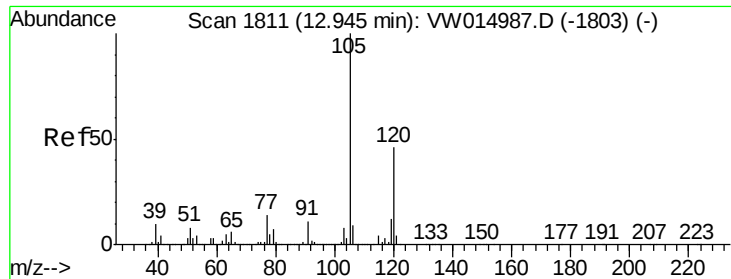
Delta R.T. -0.00 min

Lab File: VW014991.D

Acq: 14 Feb 2020 12:26

Tgt Ion:	75	Resp:	8582
Ion Ratio	Lower	Upper	
75	100		
77	39.5	25.8	38.6#
110	33.8	26.6	39.8





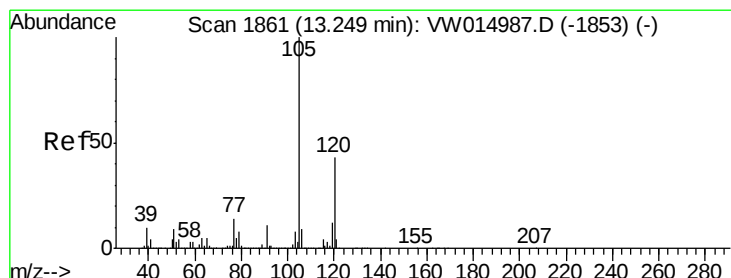
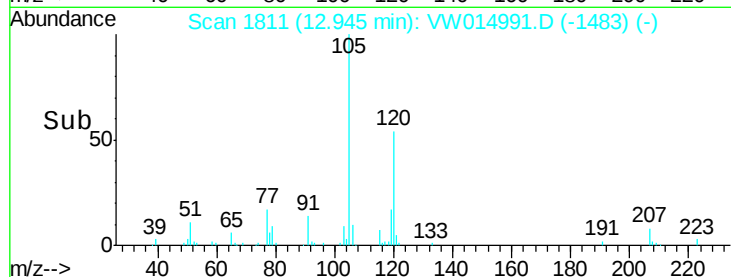
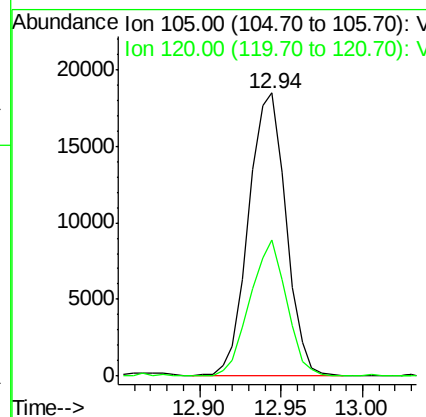
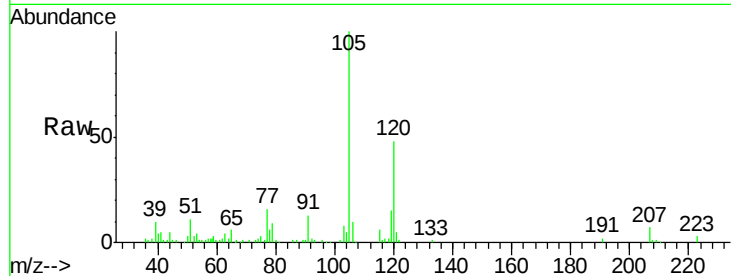
#62
 1,3,5-Trimethylbenzene
 Concen: 0.884 ug/L
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.0	37.4	56.0

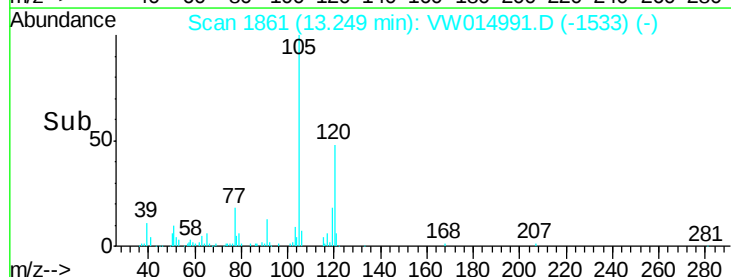
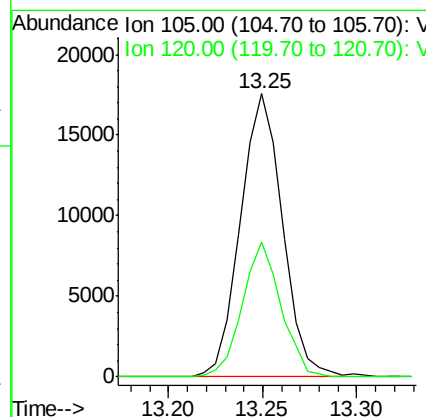
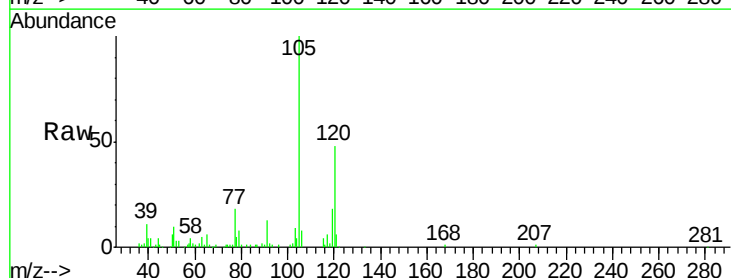
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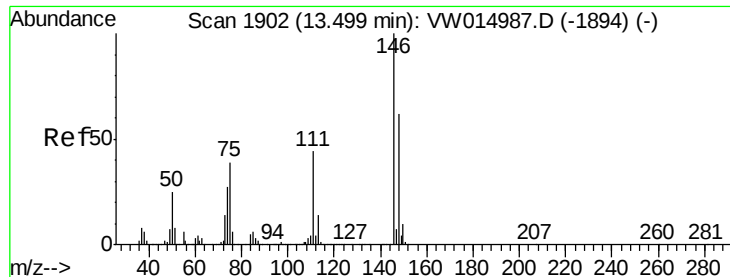
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.829 ug/L
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	35.0	52.4





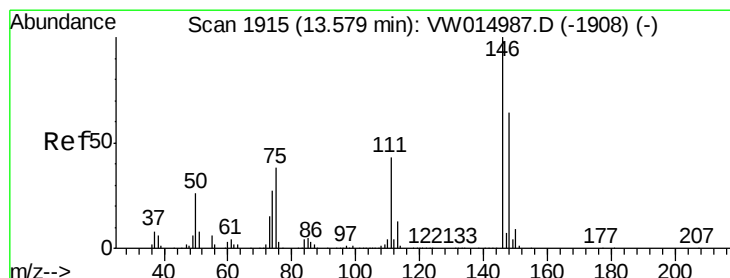
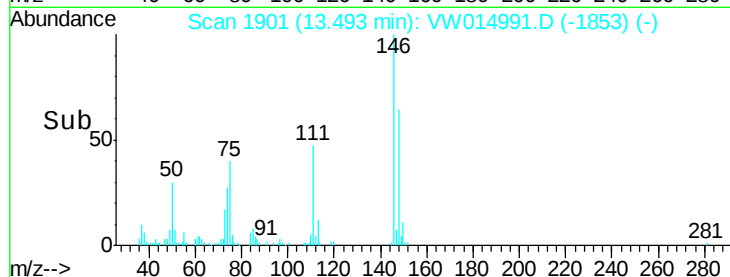
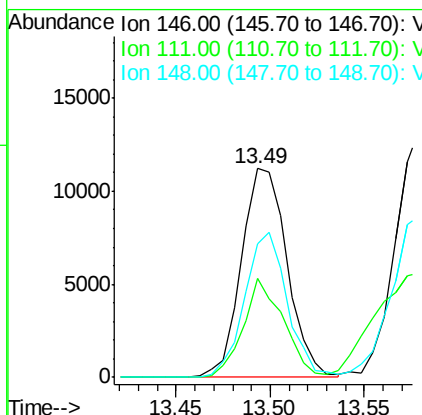
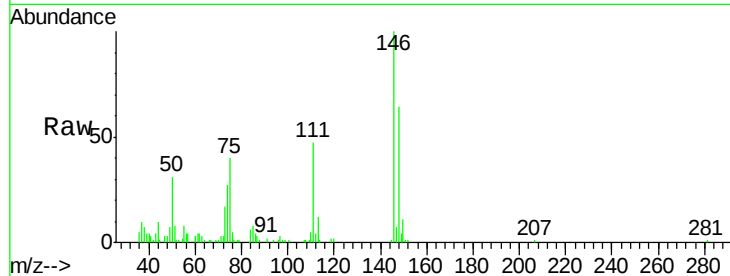
#64
1,3-Dichlorobenzene
Concen: 1.090 ug/L
RT: 13.49 min Scan# 1901
Delta R.T. -0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	30.2	56.0
148	64.1	44.2	82.2

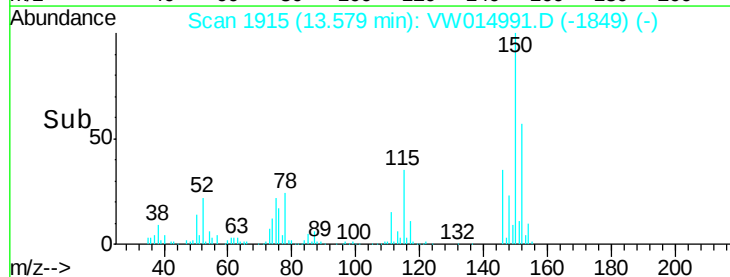
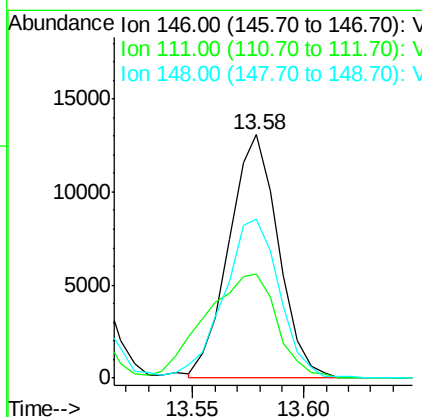
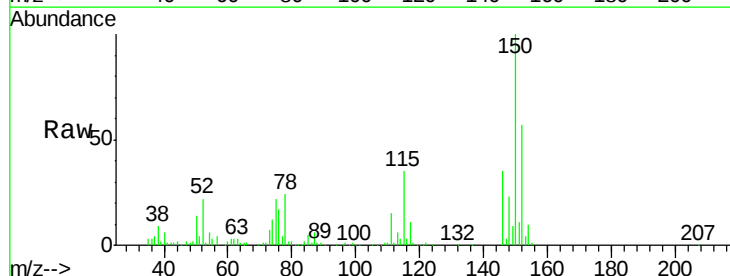
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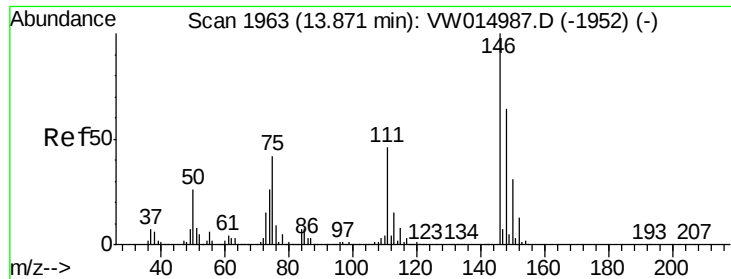
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#65
1,4-Dichlorobenzene
Concen: 1.131 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	29.5	54.9
148	65.6	43.8	81.3





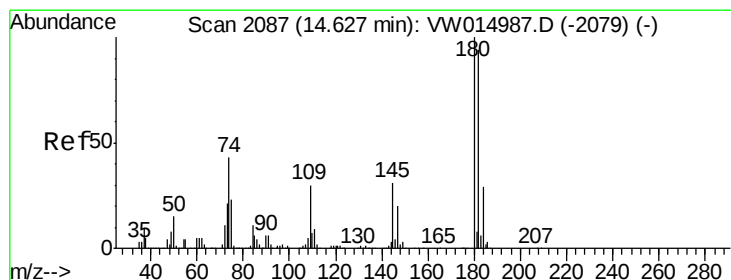
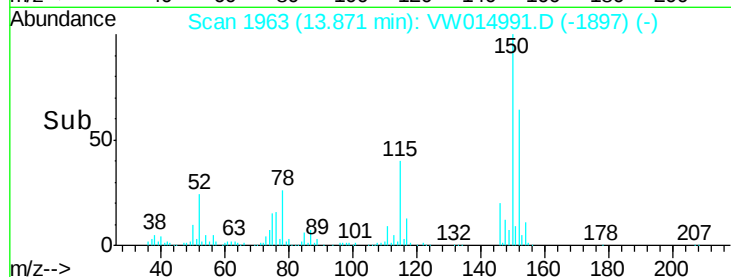
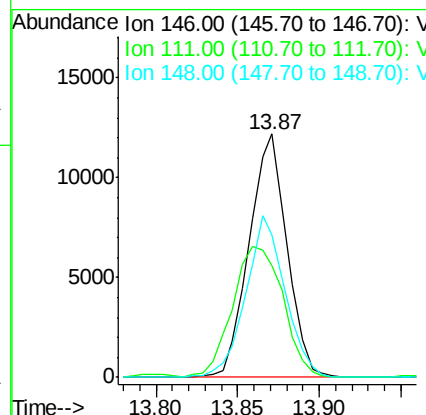
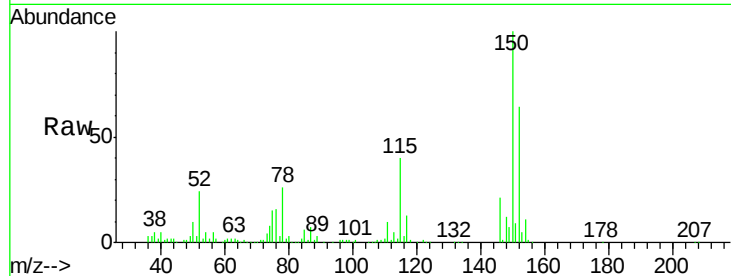
#67
 1,2-Dichlorobenzene
 Concen: 1.232 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.8	38.0	57.0
148	58.5	49.5	74.3

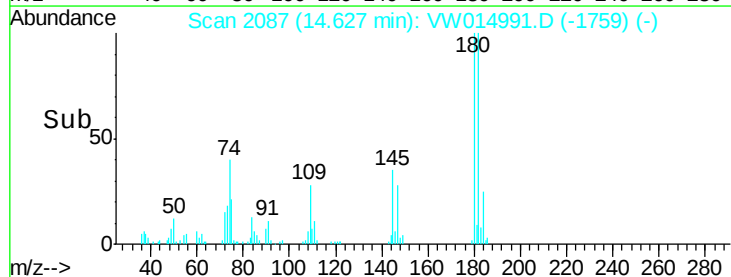
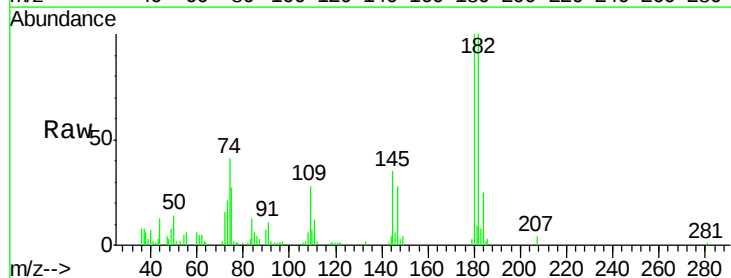
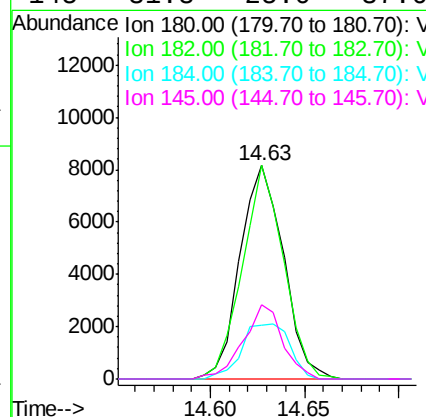
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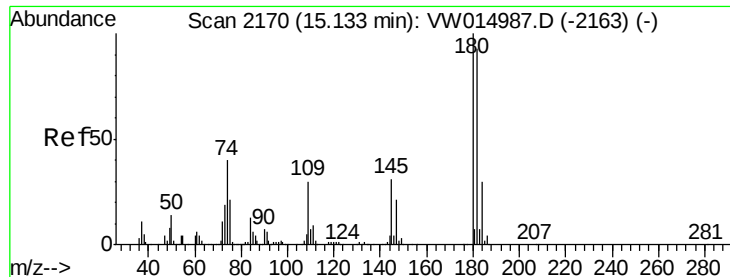
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#69
 1,3,5-Trichlorobenzene
 Concen: 1.126 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.5	114.7
184	28.6	24.2	36.2
145	31.8	25.0	37.6





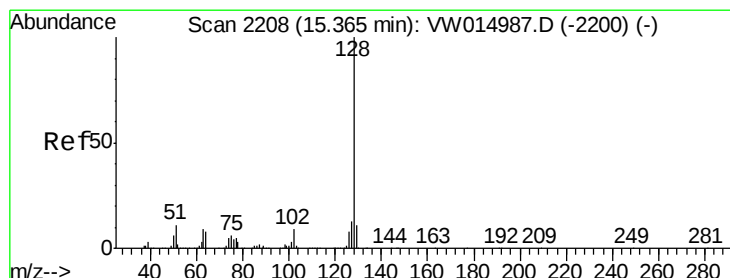
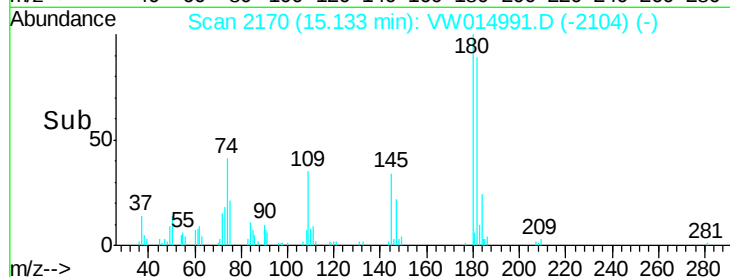
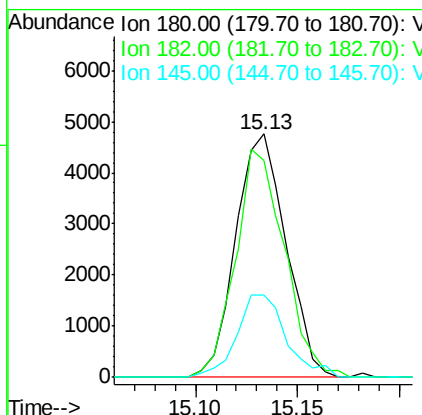
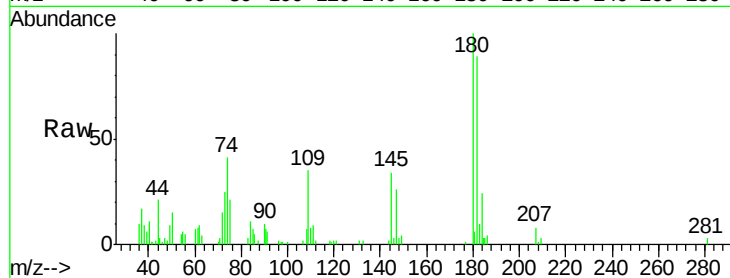
#70
1,2,4-trichlorobenzene
Concen: 0.938 ug/L
RT: 15.13 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Instrument :
MSVOA_W
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.0	76.2	114.4
145	33.5	26.2	39.4

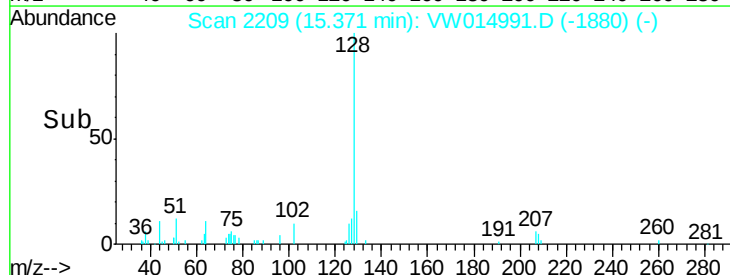
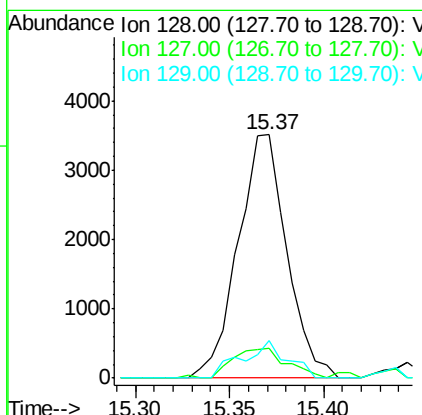
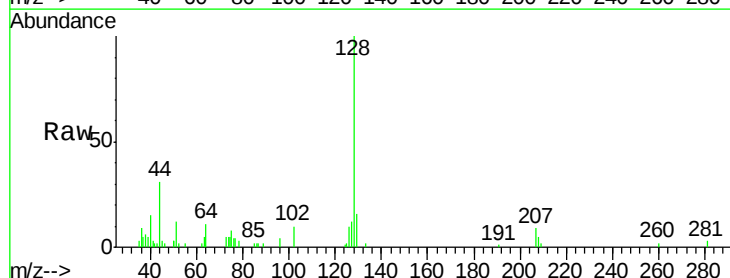
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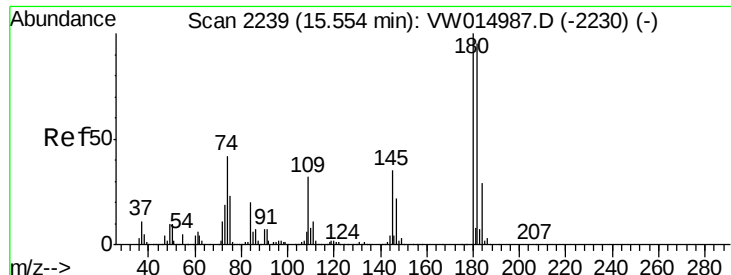
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#71
Naphthalene
Concen: 0.707 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW014991.D
Acq: 14 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	4.1	8.6	12.8#





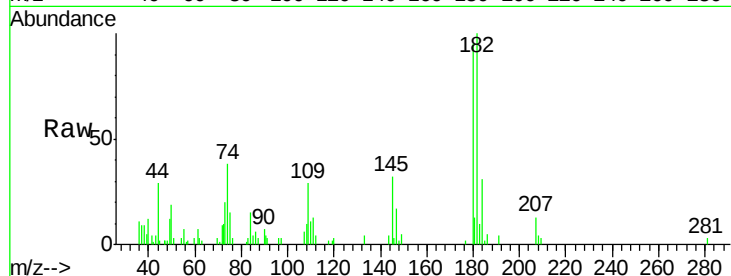
#72
 1,2,3-Trichlorobenzene
 Concen: 0.859 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW014991.D
 Acq: 14 Feb 2020 12:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Resp	Lower	Upper
180	100	6909		
182	102.8		75.2	112.8
145	39.8		27.0	40.6

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

