

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090420\
 Data File : VW016463.D
 Acq On : 04 Sep 2020 14:30
 Operator : SY/VA
 Sample : MDL05
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 10:14:48 AM

Quant Time: Sep 08 01:12:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM090320S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 08 00:59:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	705843	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	630568	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	297685	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	172377	23.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.08%
7) Chloroethane-d5	2.90	69	166175	24.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.84%
10) 1,1-Dichloroethene-d2	4.03	63	279816	16.25	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	65.00%
20) 2-Butanone-d5	7.09	46	120007	44.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.74%
24) Chloroform-d	7.65	84	387290	23.42	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.68%
26) 1,2-Dichloroethane-d4	8.31	65	217721	24.08	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.32%
29) Benzene-d6	8.28	84	778213	24.28	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.12%
33) 1,2-Dichloropropane-d6	9.28	67	228890	24.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.24%
37) Toluene-d8	10.33	98	764309	25.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.32%
38) trans-1,3-Dichloropropene-	10.58	79	115751	24.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.44%
39) 2-Hexanone-d5	10.93	63	99725	51.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.62%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	206765	25.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.84%
61) 1,2-Dichlorobenzene-d4	13.86	152	266631	25.92	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.68%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.02	85	5491m	0.695 ug/L	
3) Chloromethane	2.21	50	4906	0.708 ug/L	92
5) Vinyl chloride	2.37	62	7668m	0.868 ug/L	
6) Bromomethane	2.78	94	5212	0.790 ug/L	99
8) Chloroethane	2.93	64	4917m	0.905 ug/L	
9) Trichlorofluoromethane	3.27	101	4115	0.569 ug/L	89
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	8981m	1.050 ug/L	
12) 1,1-Dichloroethene	4.05	96	8589	0.988 ug/L #	1
13) Acetone	4.14	43	4840	2.820 ug/L	65
14) Carbon disulfide	4.40	76	17567	0.661 ug/L #	91
15) Methyl Acetate	4.68	43	3211m	0.771 ug/L	
16) Methylene chloride	4.93	84	25240	2.291 ug/L	95
17) Methyl tert-butyl Ether	5.42	73	9957m	0.763 ug/L	
18) trans-1,2-Dichloroethene	5.43	96	6883	0.745 ug/L	92
19) 1,1-Dichloroethane	6.23	63	10658m	0.678 ug/L	
21) 2-Butanone	7.15	43	9504m	3.299 ug/L	
22) cis-1,2-Dichloroethene	7.17	96	6942	0.721 ug/L	89

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Manual Integrations
 APPROVED

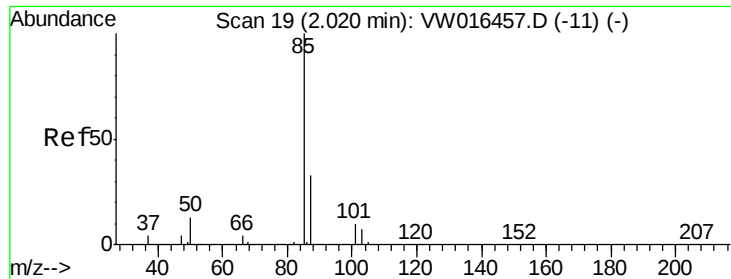
MMDadoda
 9/8/2020 10:14:48 AM

Quant Time: Sep 08 01:12:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM090320S.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

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

23) Bromochloromethane	7.52	128	3408	0.764	ug/L #	72
25) Chloroform	7.68	83	12833	0.789	ug/L #	18
27) 1,2-Dichloroethane	8.40	62	7733	0.714	ug/L #	94
30) Cyclohexane	7.96	56	10124	0.672	ug/L #	85
31) 1,1,1-Trichloroethane	7.87	97	10038	0.735	ug/L	98
32) Carbon tetrachloride	8.07	117	8663	0.663	ug/L	91
34) Benzene	8.33	78	24446	0.709	ug/L	100
35) Trichloroethene	9.10	95	7374	0.772	ug/L	97
36) Methylcyclohexane	9.34	83	11314	0.677	ug/L	95
40) 1,2-Dichloropropane	9.37	63	5961	0.699	ug/L #	97
41) Bromodichloromethane	9.65	83	8691	0.729	ug/L #	95
42) cis-1,3-Dichloropropene	10.08	75	10484	0.725	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	14709	2.437	ug/L	96
44) Toluene	10.39	91	28659	0.743	ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	10348	0.800	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	5026	0.744	ug/L	94
47) Tetrachloroethene	10.87	164	5833	0.762	ug/L	92
49) 2-Hexanone	10.98	43	5995	1.426	ug/L #	95
50) Dibromochloromethane	11.13	129	6076	0.711	ug/L	99
51) 1,2-Dibromoethane	11.24	107	5069	0.751	ug/L #	96
52) Chlorobenzene	11.66	112	18200	0.744	ug/L	96
53) Ethylbenzene	11.73	91	30160	0.694	ug/L	100
54) m,p-Xylene	11.84	106	12015	0.723	ug/L	98
55) o-xylene	12.17	106	11037	0.698	ug/L	77
56) Styrene	12.18	104	19148	0.704	ug/L	99
57) Isopropylbenzene	12.47	105	33314	0.769	ug/L #	84
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	7220	0.896	ug/L #	83
59) 1,2,3-Trichloropropane	12.77	75	4331	0.720	ug/L	94
62) Bromoform	12.35	173	3479	0.696	ug/L #	95
63) 1,3-Dichlorobenzene	13.50	146	13973	0.746	ug/L	92
64) 1,4-Dichlorobenzene	13.58	146	14536	0.782	ug/L	93
65) 1,2-Dichlorobenzene	13.87	146	13146	0.789	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.49	75	1171	0.755	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	9451	0.732	ug/L	95
68) 1,2,4-trichlorobenzene	15.14	180	7455	0.667	ug/L	94
69) Naphthalene	15.37	128	15160	0.643	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	6726	0.701	ug/L	97

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



#2

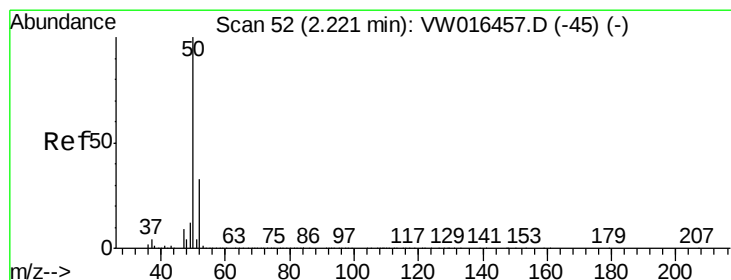
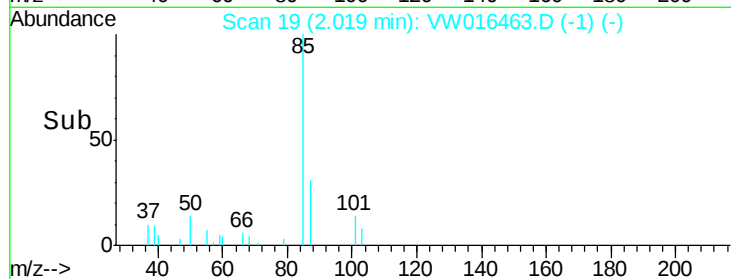
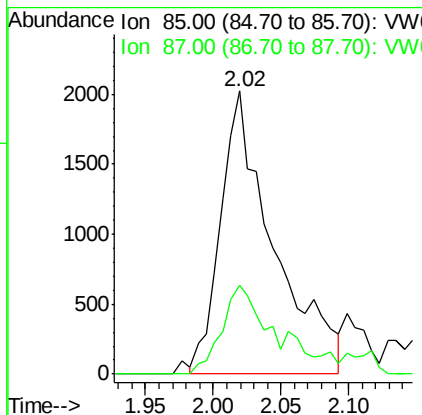
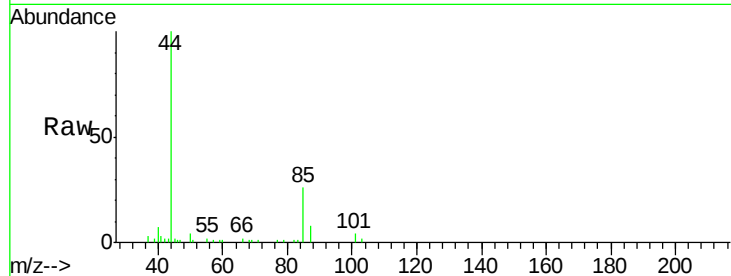
Dichlorodifluoromethane
Concen: 0.695 ug/L m
RT: 2.02 min Scan# 19
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Tot Ion	85	Resp	5491
Ion Ratio	100	Lower	Upper
87	24.4	22.3	41.5

Manual Integrations
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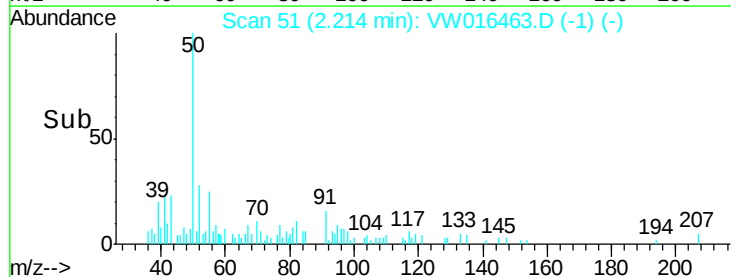
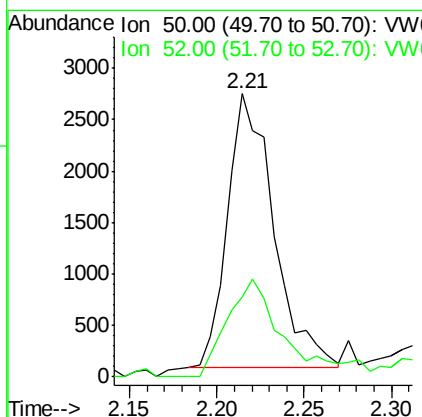
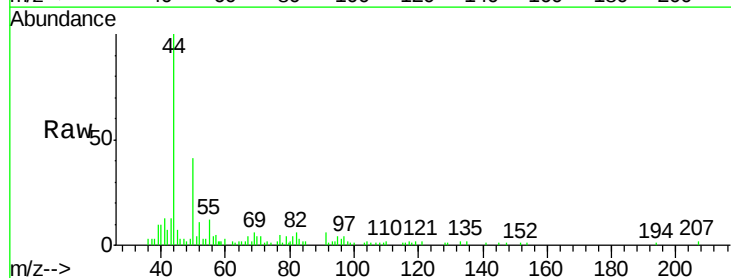
MMDadoda
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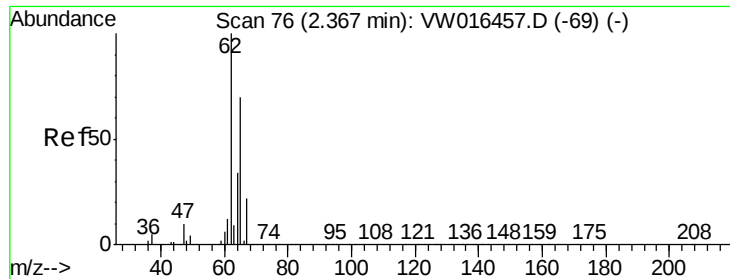


#3

Chloromethane
Concen: 0.708 ug/L
RT: 2.21 min Scan# 51
Delta R.T. -0.01 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion	50	Resp	4906
Ion Ratio	100	Lower	Upper
52	28.3	23.0	42.6





#5

Vinyl chloride

Concen: 0.868 ug/L m

RT: 2.37 min Scan# 77

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 62 Resp: 7668

Ion Ratio Lower Upper

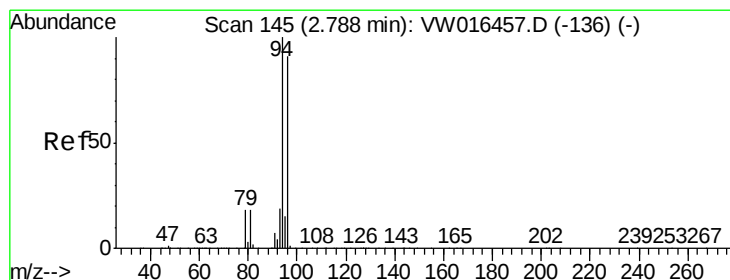
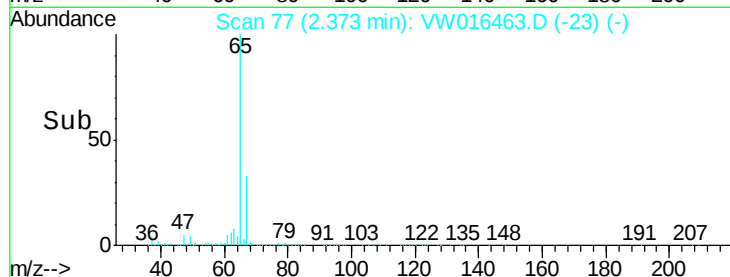
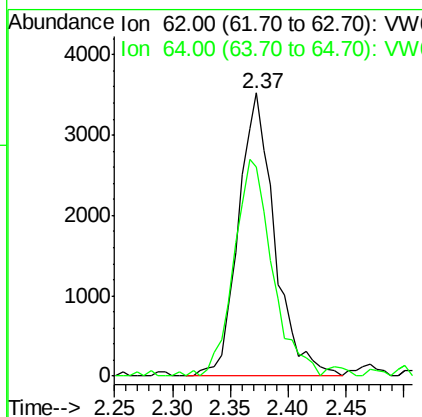
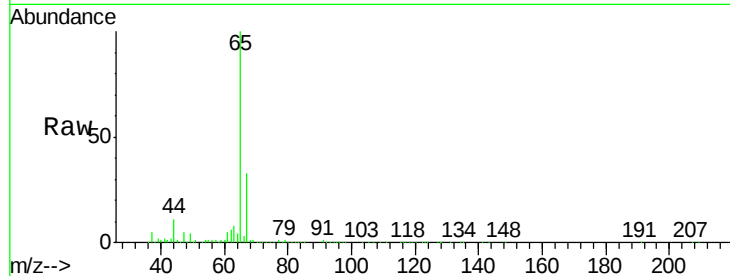
62 100

64 74.0 23.9 44.5#

Manual Integrations
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9/8/2020 10:14:48 AM



#6

Bromomethane

Concen: 0.790 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW016463.D

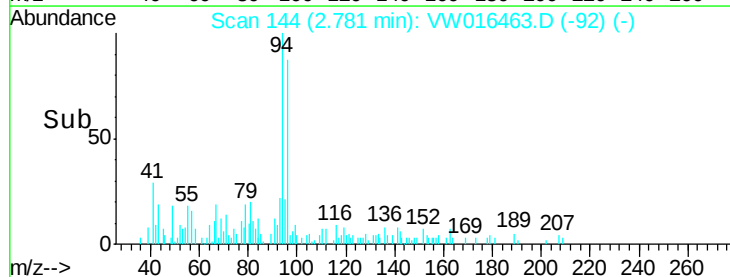
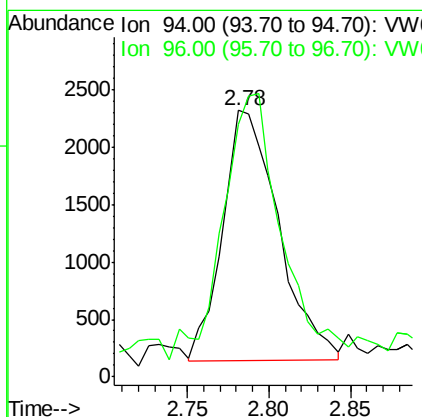
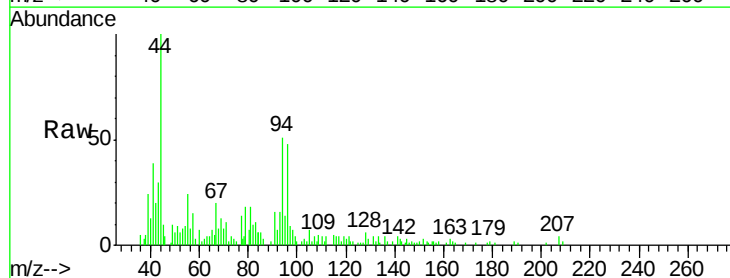
Acq: 04 Sep 2020 14:30

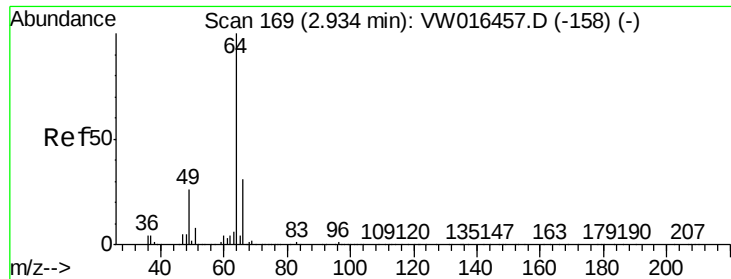
Tgt Ion: 94 Resp: 5212

Ion Ratio Lower Upper

94 100

96 94.8 9.4 178.2





#8

Chloroethane

Concen: 0.905 ug/L m

RT: 2.93 min Scan# 168

Delta R.T. -0.01 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 64 Resp: 4917

Ion Ratio Lower Upper

64 100

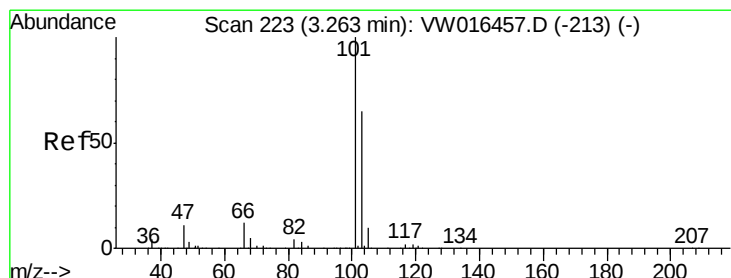
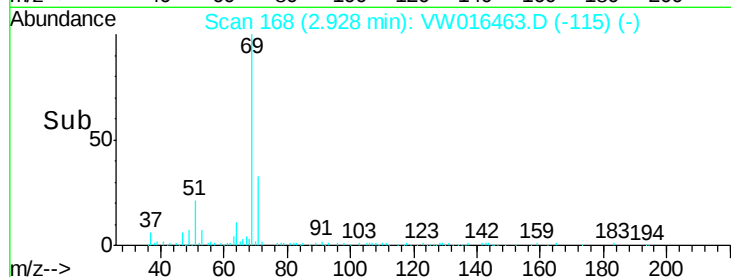
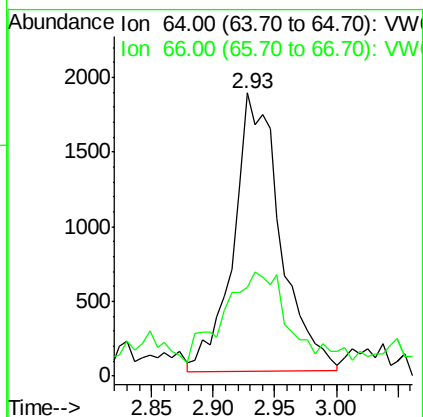
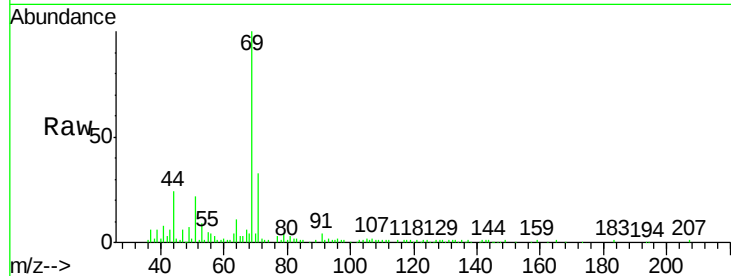
66 31.2 22.4 41.6

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 0.569 ug/L

RT: 3.27 min Scan# 224

Delta R.T. -0.01 min

Lab File: VW016463.D

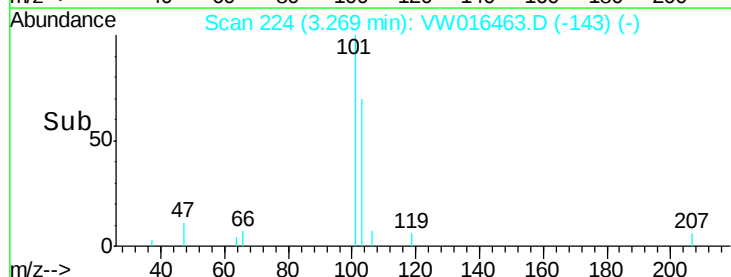
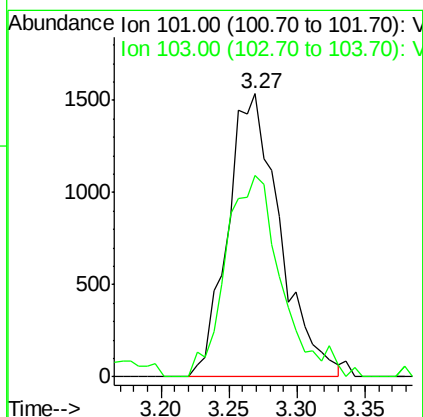
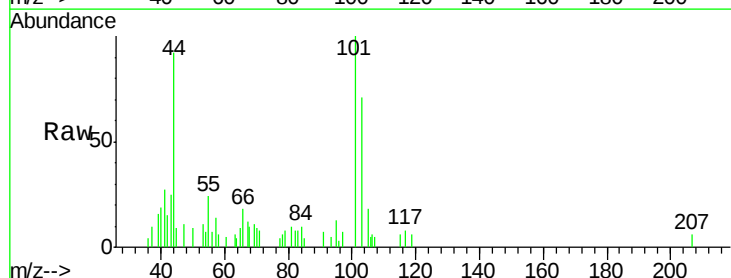
Acq: 04 Sep 2020 14:30

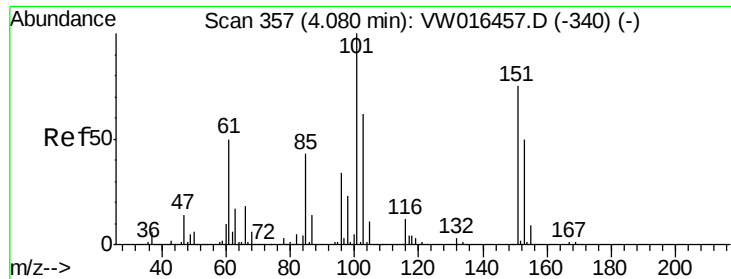
Tgt Ion: 101 Resp: 4115

Ion Ratio Lower Upper

101 100

103 73.0 45.1 83.7





#11

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

Concen: 1.050 ug/L m

RT: 4.07 min Scan# 355

Delta R.T. -0.01 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

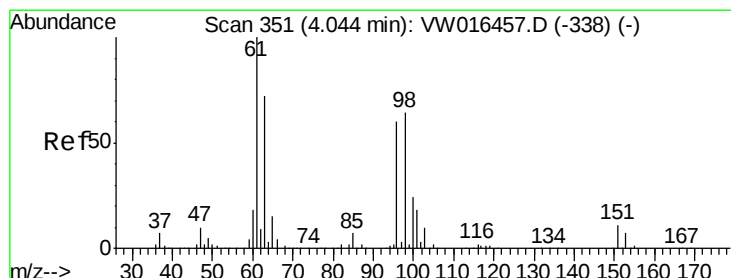
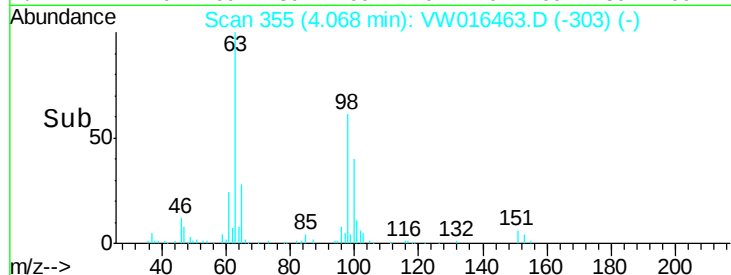
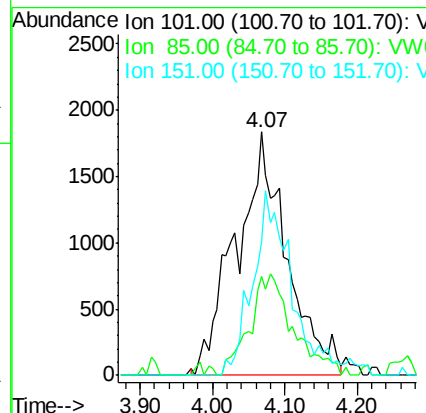
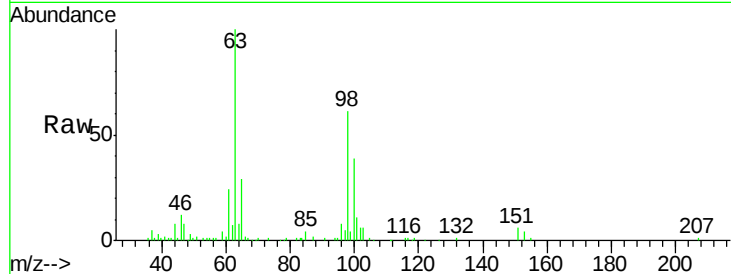
ClientSampled :

MDL05

Tot Ion:	101	Resp:	8981
Ion Ratio	Lower	Upper	
101	100		
85	4.4	33.4	50.0#
151	18.6	61.6	92.4#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.988 ug/L

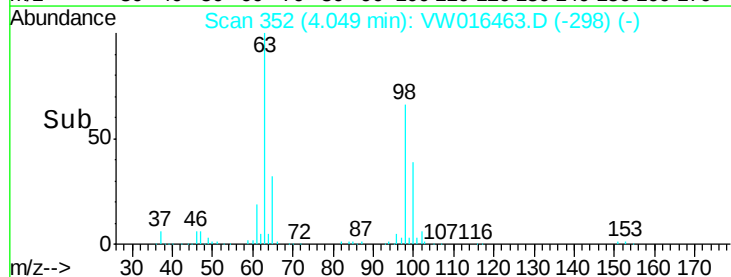
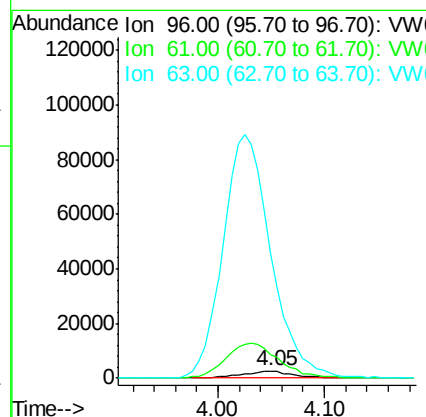
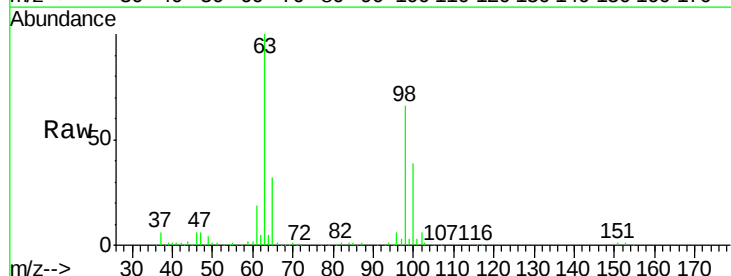
RT: 4.05 min Scan# 352

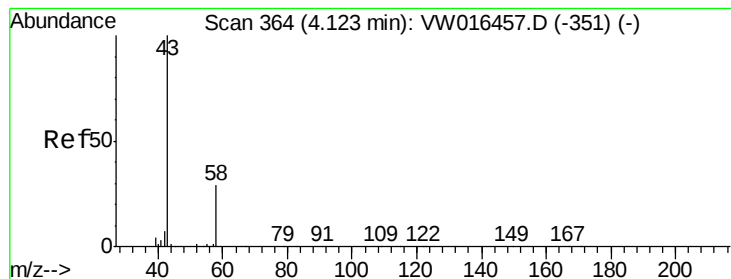
Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Tgt Ion:	96	Resp:	8589
Ion Ratio	Lower	Upper	
96	100		
61	341.1	116.5	216.3#
63	1792.3	81.1	150.5#





#13

Acetone

Concen: 2.820 ug/L

RT: 4.14 min Scan# 367

Delta R.T. -0.01 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

ClientSampled :

MDL05

Tot Ion: 43 Resp: 4840

Ion Ratio Lower Upper

43 100

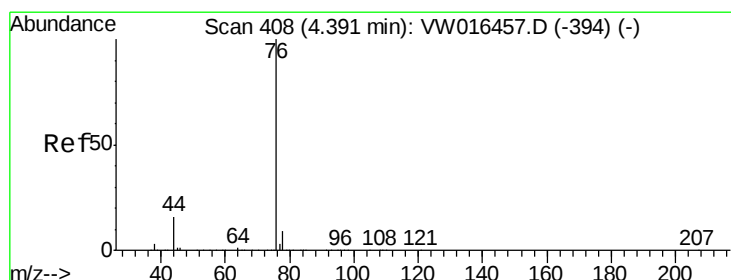
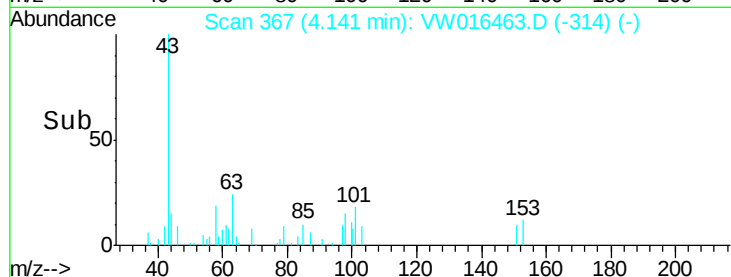
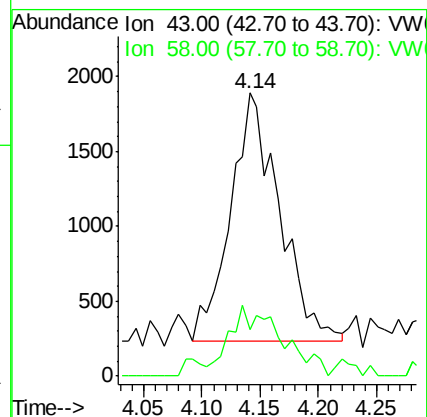
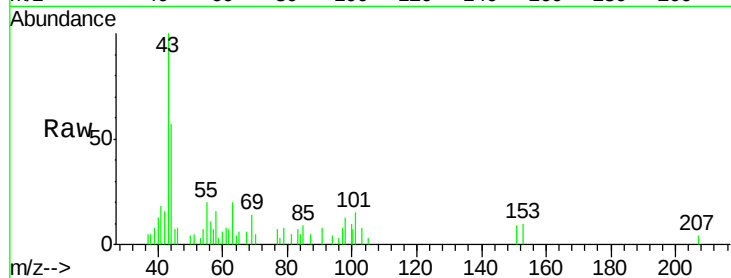
58 12.1 0.0 63.0

Manual Integrations

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9/8/2020 10:14:48 AM



#14

Carbon disulfide

Concen: 0.661 ug/L

RT: 4.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VW016463.D

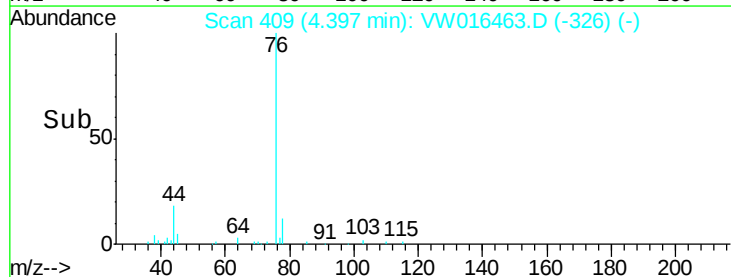
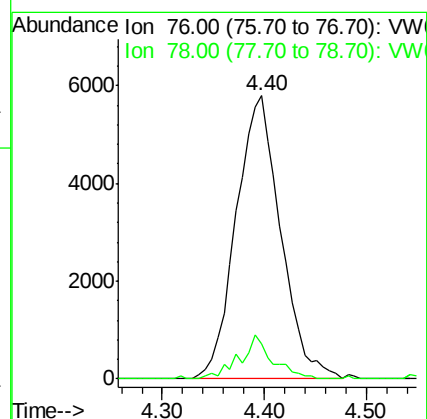
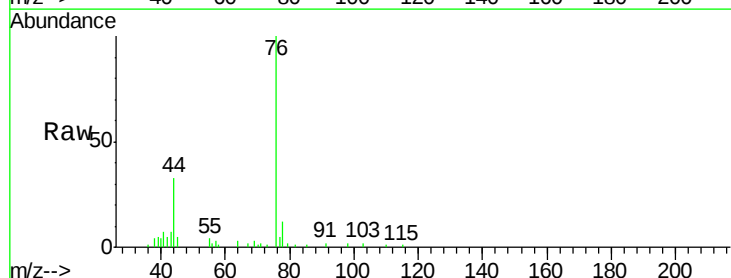
Acq: 04 Sep 2020 14:30

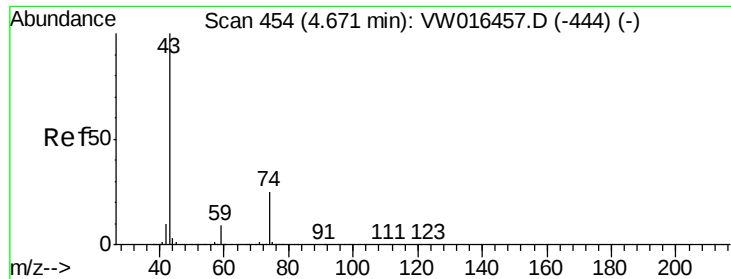
Tgt Ion: 76 Resp: 17567

Ion Ratio Lower Upper

76 100

78 12.2 7.3 10.9#





#15

Methyl Acetate

Concen: 0.771 ug/L m

RT: 4.68 min Scan# 456

Delta R.T. 0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Tot Ion: 43 Resp: 3211

Ion Ratio Lower Upper

43 100

74 1.8 18.9 28.3#

Instrument :

MSVOA_W

ClientSampled :

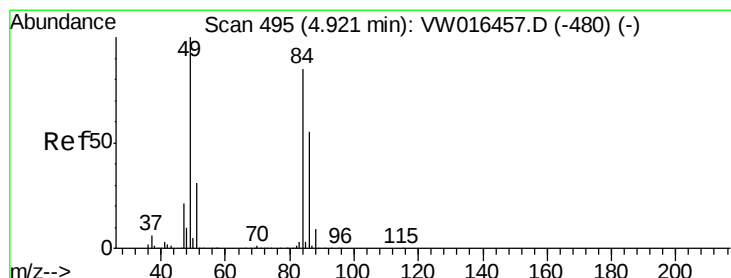
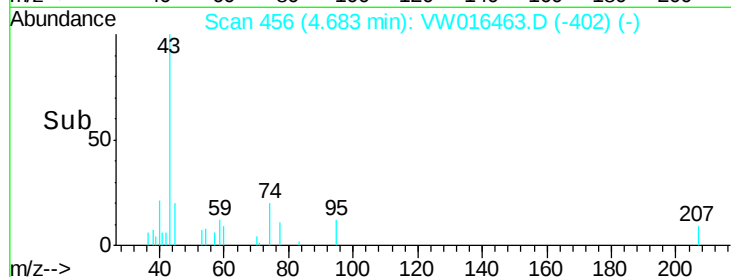
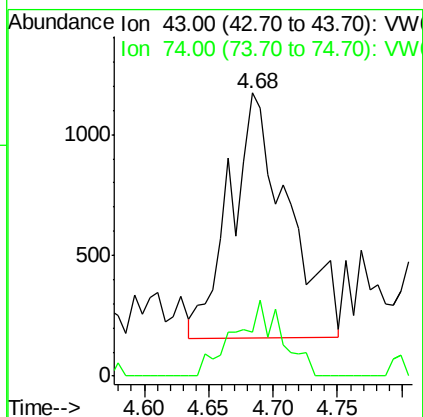
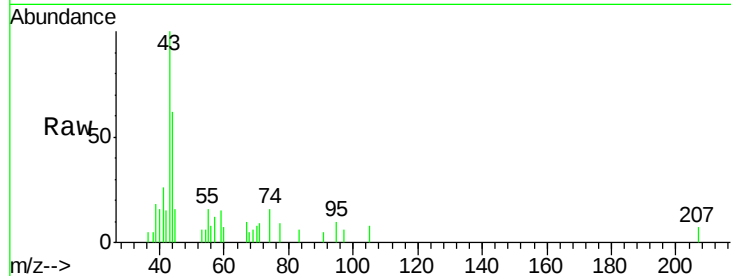
MDL05

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#16

Methylene chloride

Concen: 2.291 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

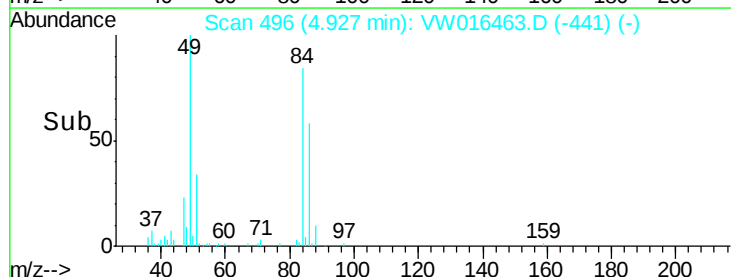
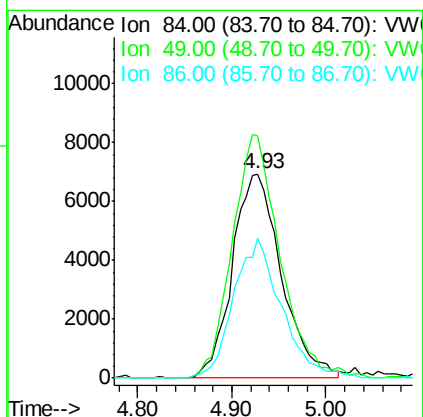
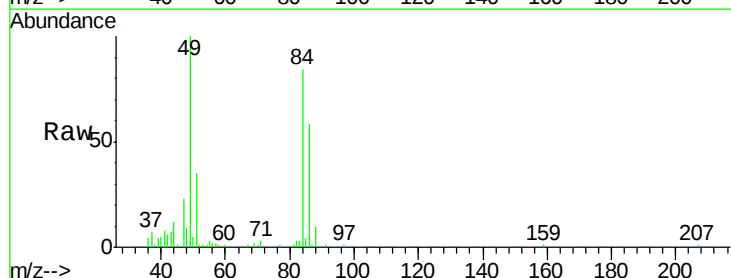
Tgt Ion: 84 Resp: 25240

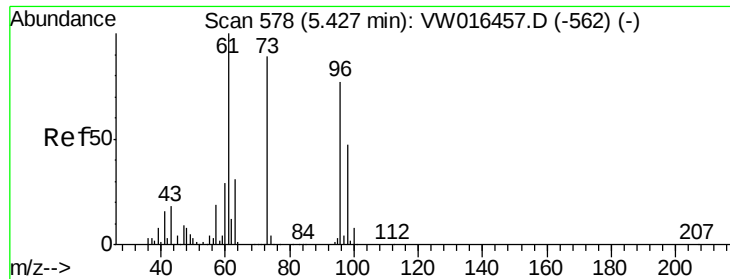
Ion Ratio Lower Upper

84 100

49 118.8 86.7 160.9

86 68.5 44.9 83.5





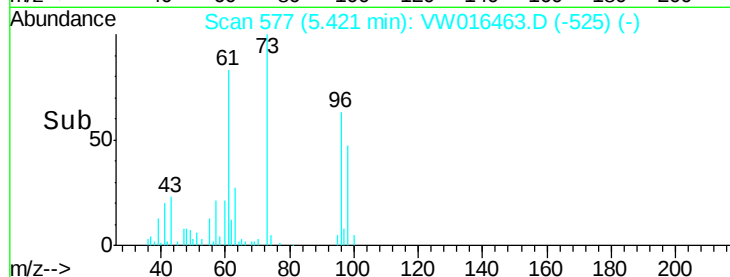
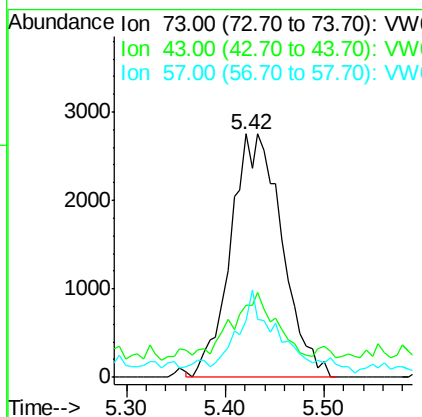
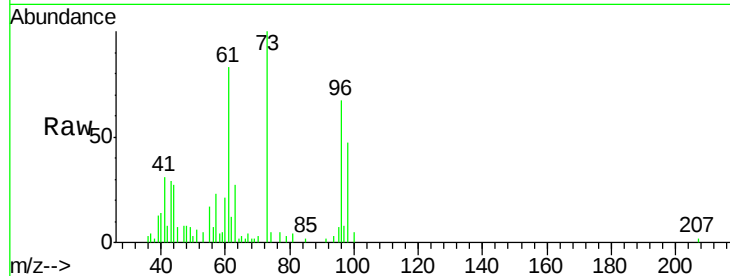
#17
Methvl tert-butvl Ether
Concen: 0.763 ug/L m
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
73	100		
43	16.1	17.9	26.9#
57	23.9	17.4	26.0

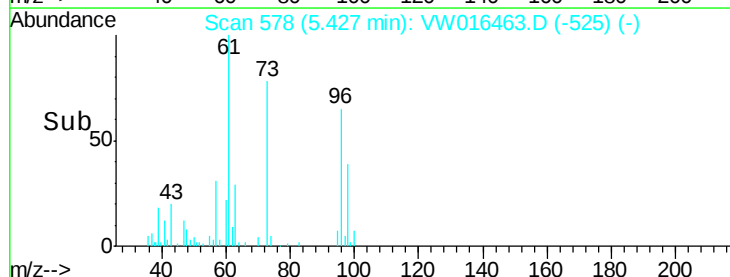
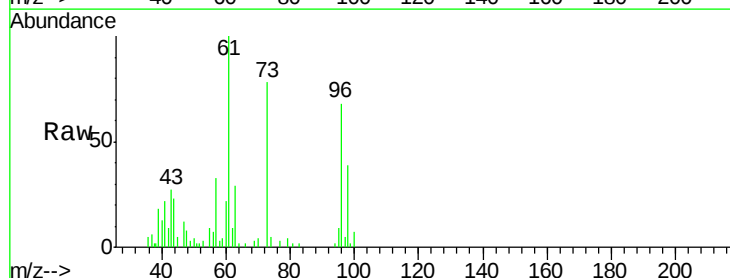
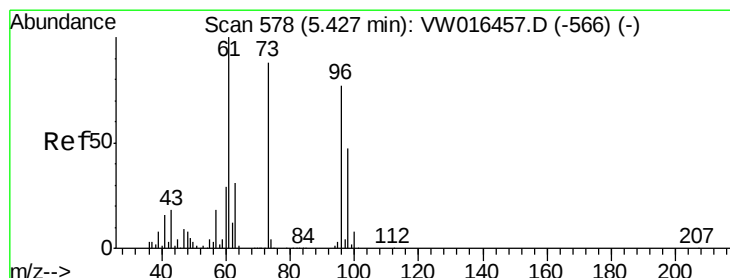
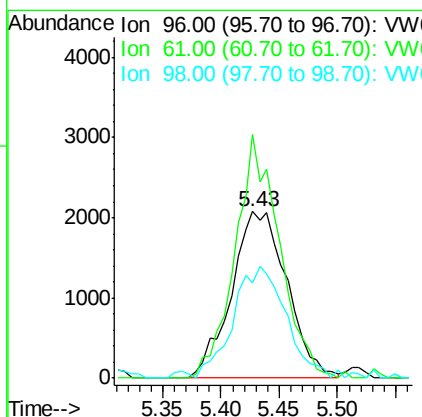
Manual Integrations
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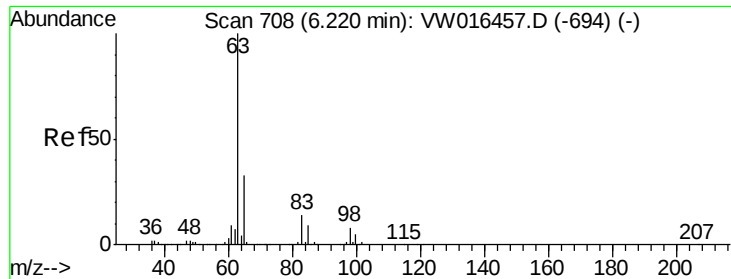
MMDadoda
9/8/2020 10:14:48 AM



#18
trans-1,2-Dichloroethene
Concen: 0.745 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.4	96.4	179.0
98	57.3	45.1	83.7





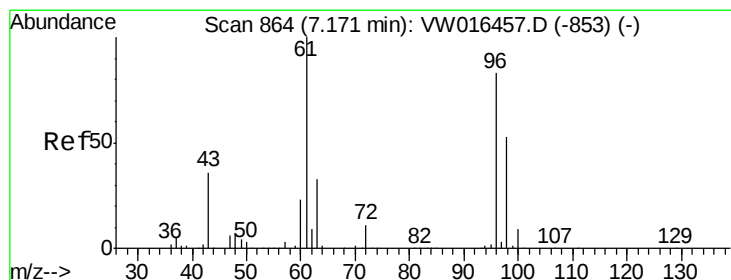
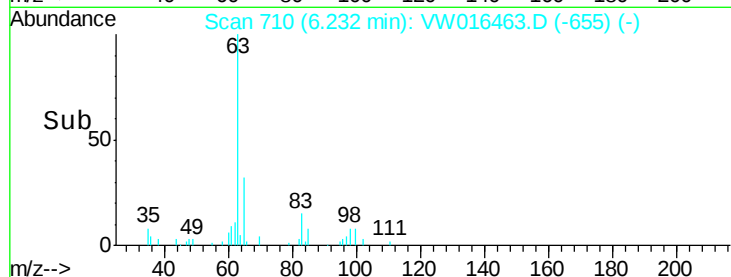
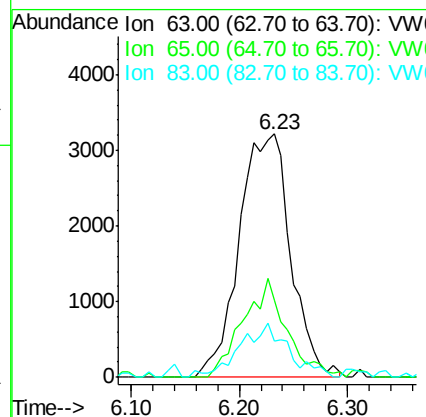
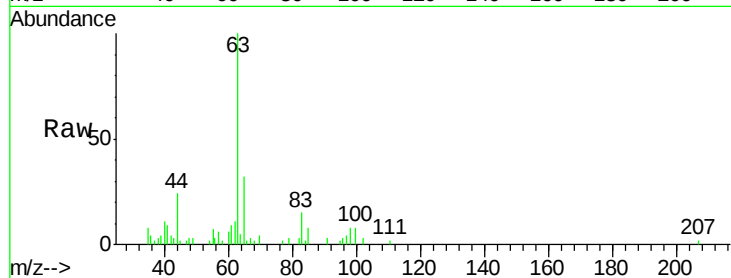
#19
 1,1-Dichloroethane
 Concen: 0.678 ug/L m
 RT: 6.23 min Scan# 710
 Delta R.T. 0.01 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.3	43.3
83	14.7	10.3	19.1

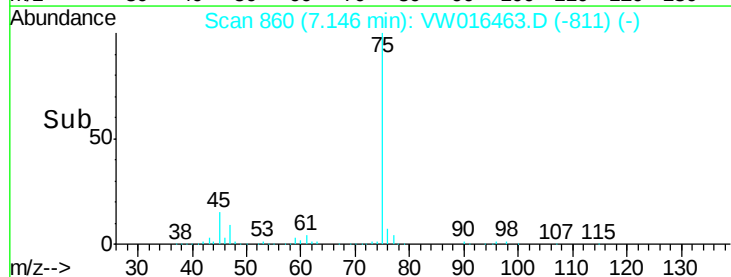
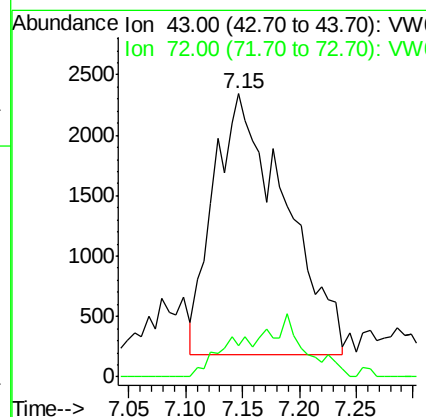
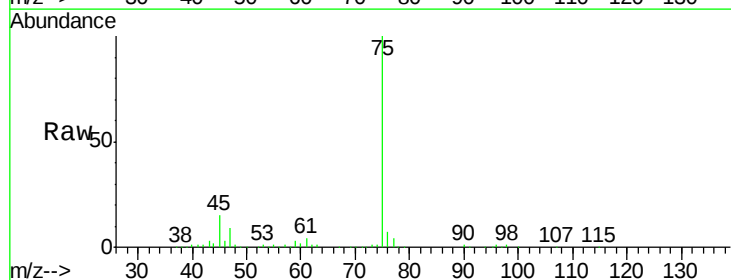
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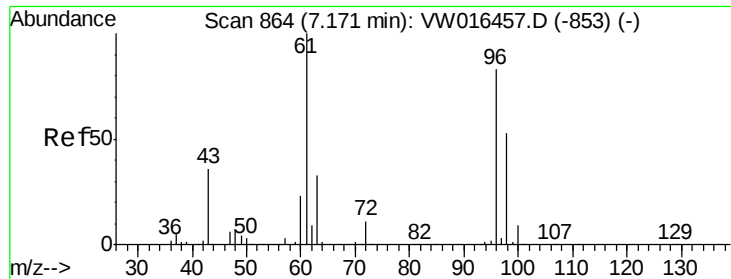
MMDadoda
 9/8/2020 10:14:48 AM



#21
 2-Butanone
 Concen: 3.299 ug/L m
 RT: 7.15 min Scan# 860
 Delta R.T. -0.03 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.6	13.5	40.4#





#22

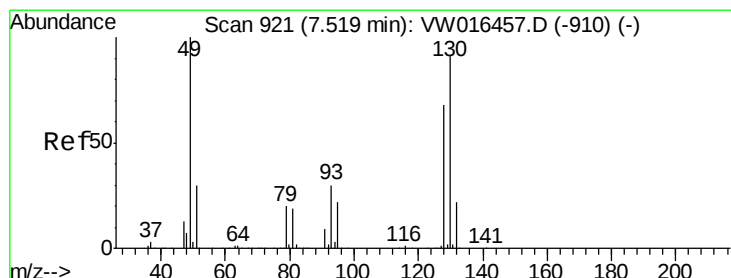
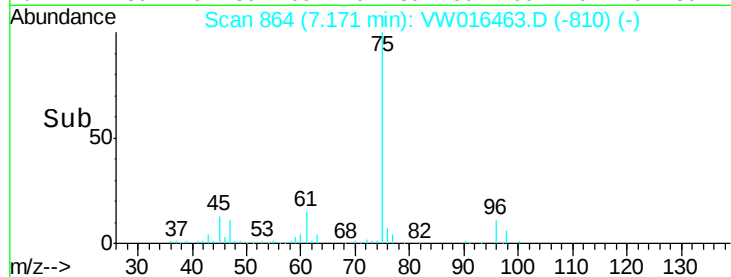
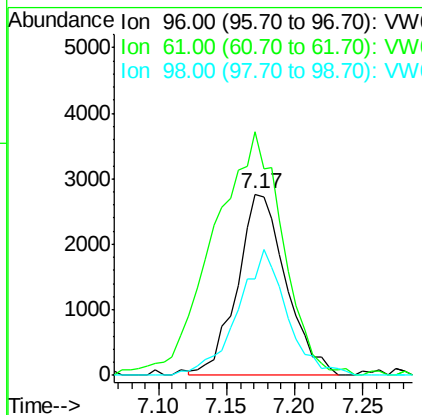
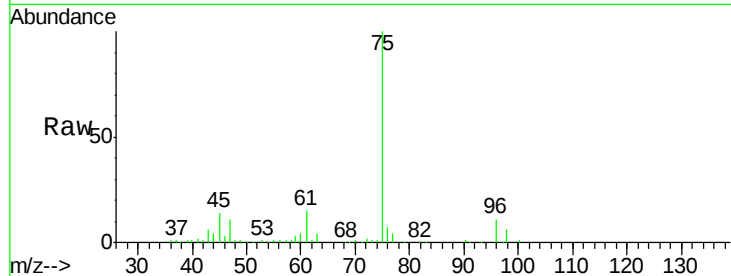
cis-1,2-Dichloroethene
Concen: 0.721 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.3	86.1	159.9
98	53.2	44.1	81.9

Manual Integrations
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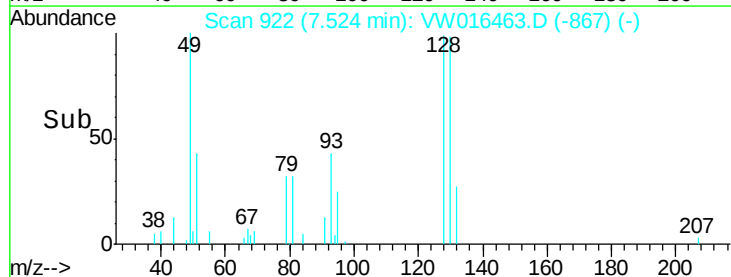
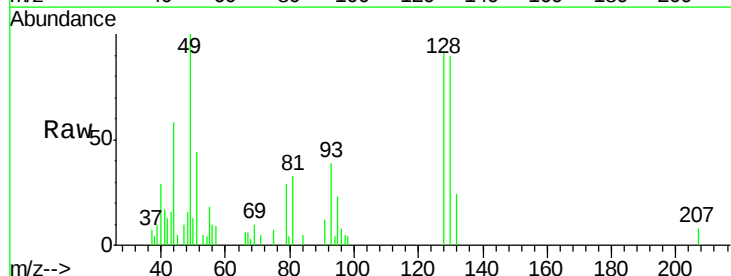
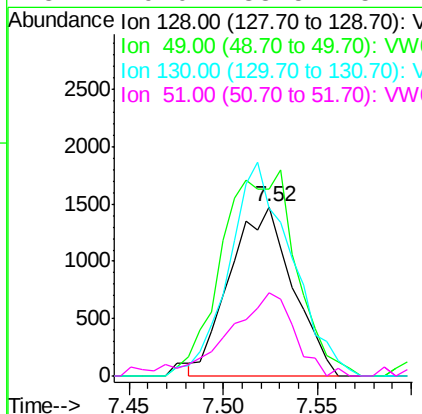
MMDadoda
9/8/2020 10:14:48 AM

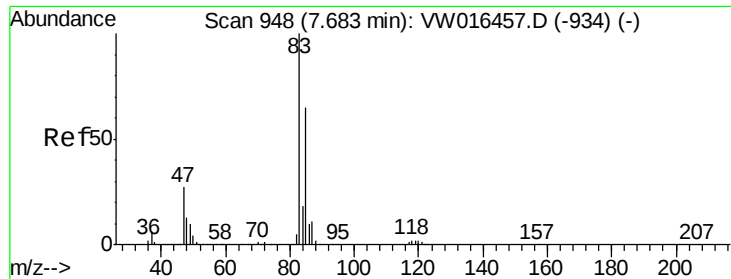


#23

Bromochloromethane
Concen: 0.764 ug/L
RT: 7.52 min Scan# 922
Delta R.T. 0.01 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
128	100		
49	110.4	111.6	207.4#
130	98.8	90.9	168.7
51	49.0	38.5	57.7





#25

Chloroform

Concen: 0.789 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 83 Resp: 12833

Ion Ratio Lower Upper

83 100

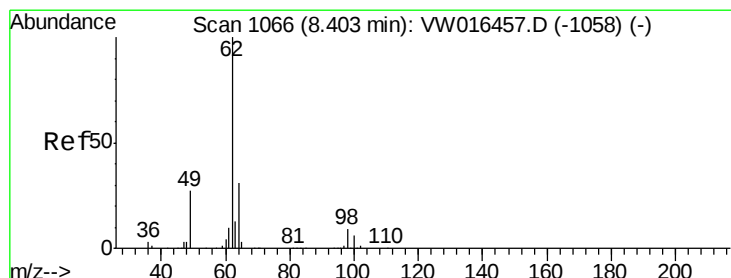
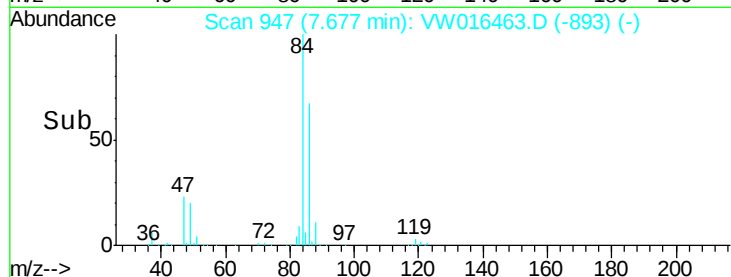
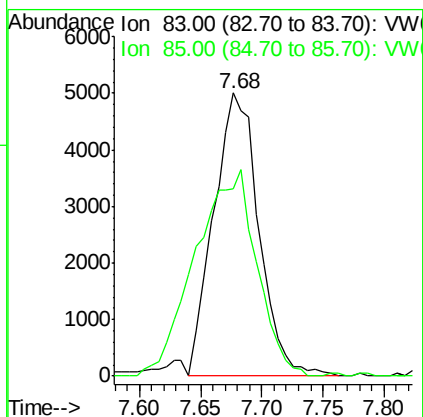
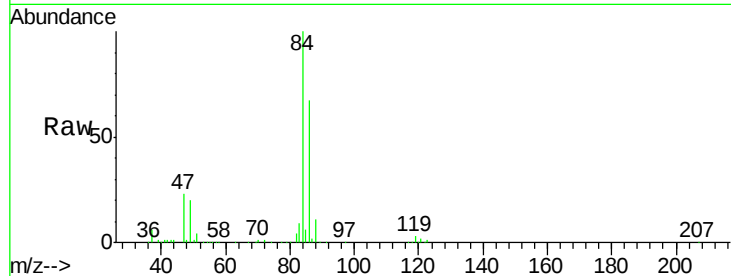
85 0.3 45.6 84.8#

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 0.714 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VW016463.D

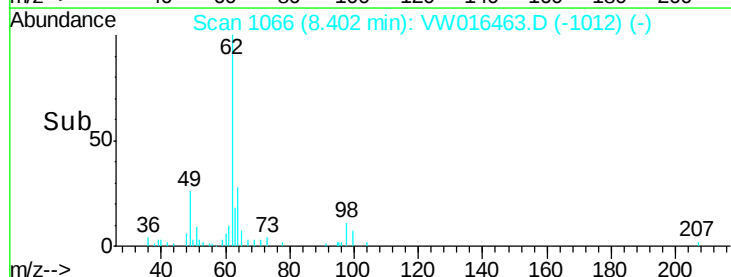
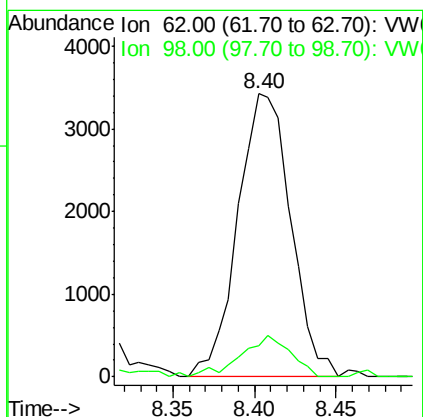
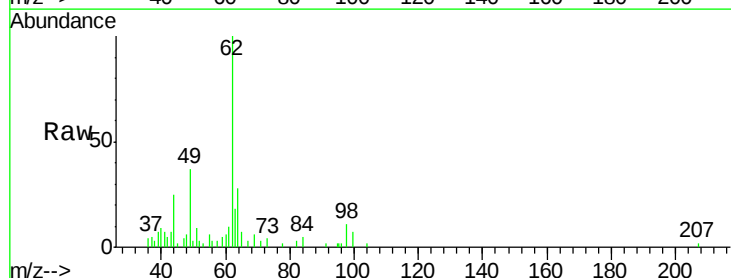
Acq: 04 Sep 2020 14:30

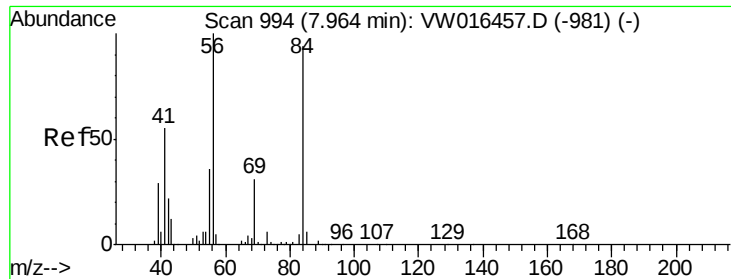
Tgt Ion: 62 Resp: 7733

Ion Ratio Lower Upper

62 100

98 11.2 7.3 10.9#





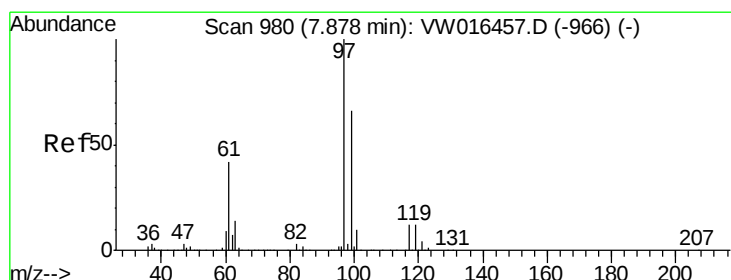
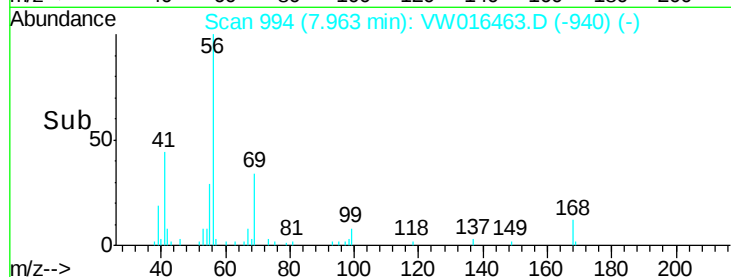
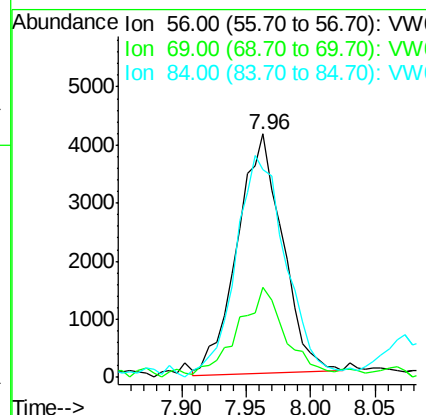
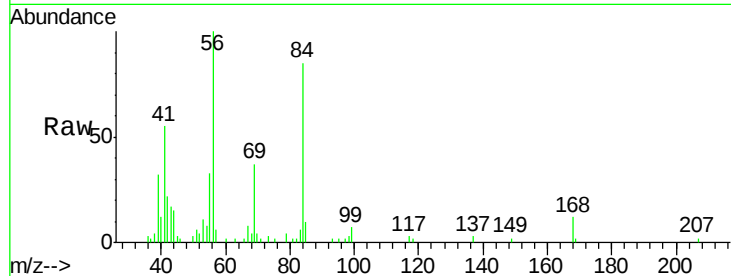
#30
Cvclohexane
Concen: 0.672 ug/L
RT: 7.96 min Scan# 994
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
56	100		
69	21.4	25.3	37.9#
84	102.8	71.6	107.4

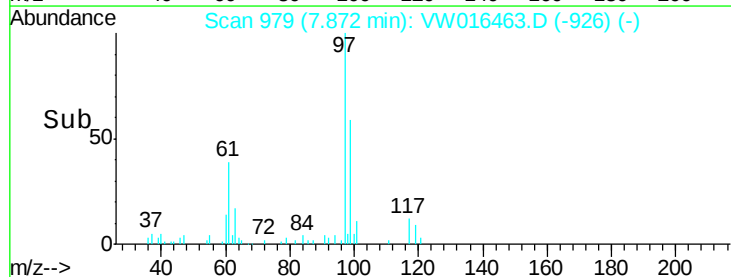
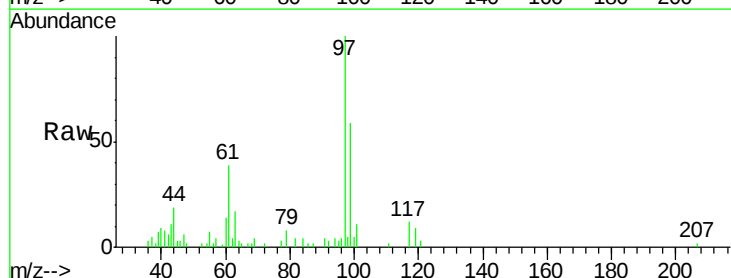
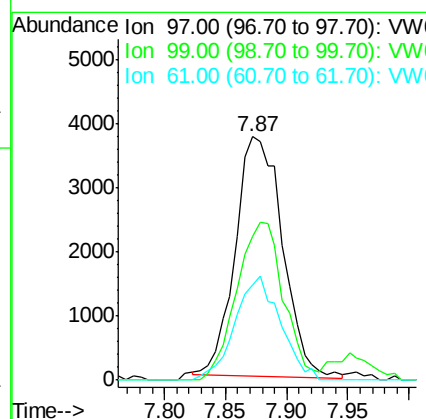
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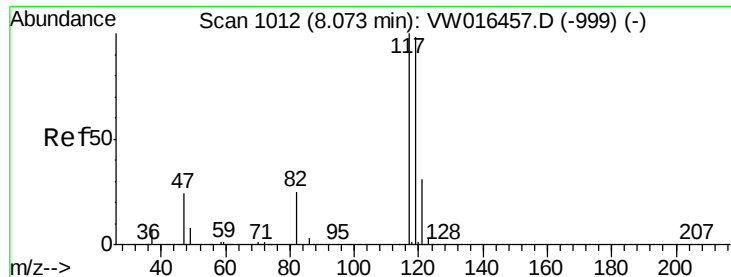
MMDadoda
9/8/2020 10:14:48 AM



#31
1,1,1-Trichloroethane
Concen: 0.735 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.01 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.2	78.2
61	41.7	36.3	54.5





#32

Carbon tetrachloride

Concen: 0.663 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion:117 Resp: 8663

Ion Ratio Lower Upper

117 100

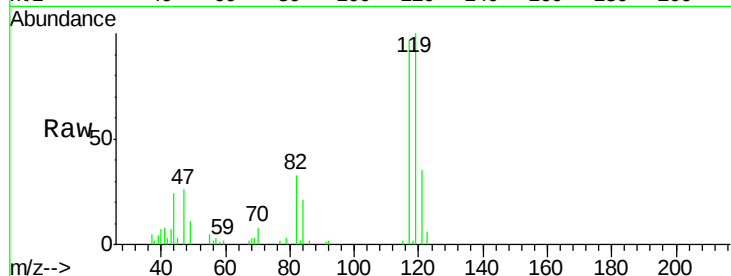
119 105.8 77.8 116.6

Manual Integrations

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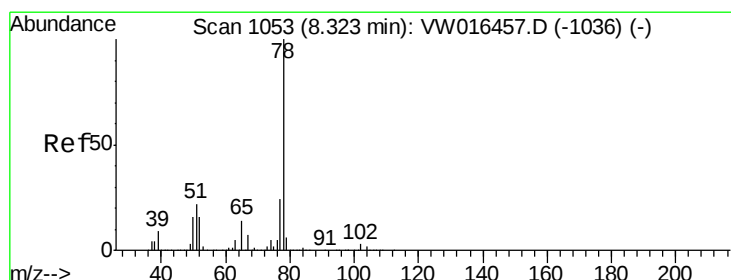
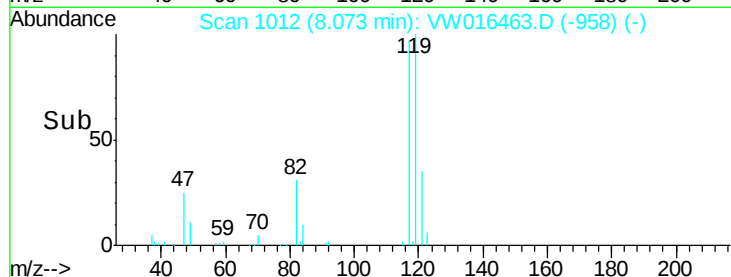
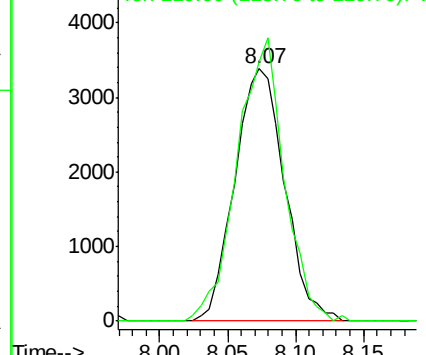
MMDadoda

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 0.709 ug/L

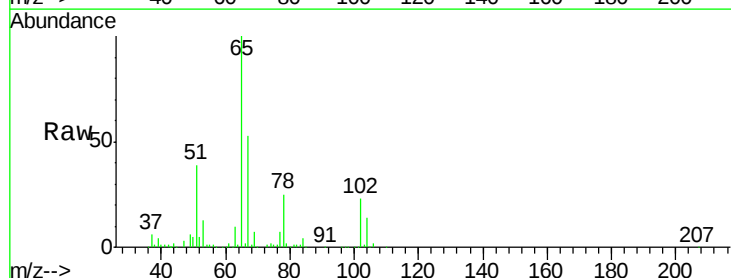
RT: 8.33 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Tgt Ion: 78 Resp: 24446



Abundance Ion 78.00 (77.70 to 78.70): VW

12000

8.33

10000

8000

6000

4000

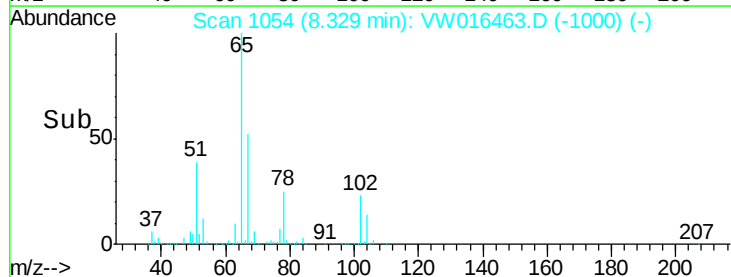
2000

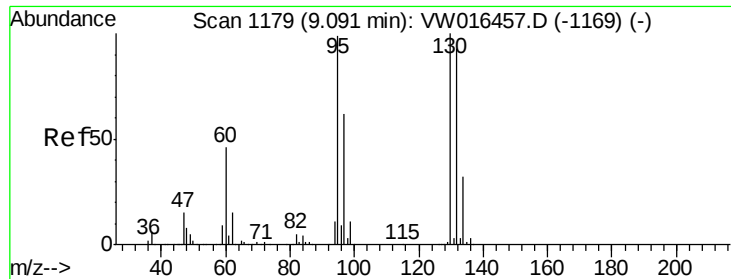
0

Time-->

8.25 8.30 8.35 8.40

Chromatogram showing abundance (0 to 12000) versus time (8.25 to 8.40 minutes). A single sharp peak is labeled at 8.33 minutes.





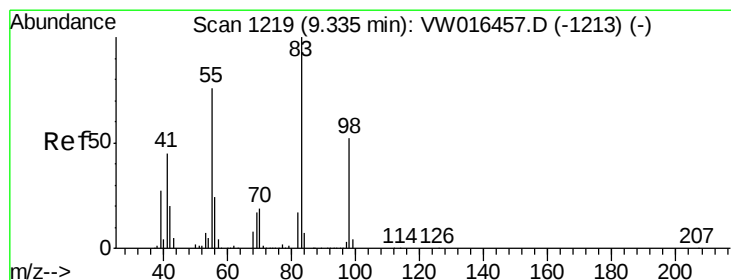
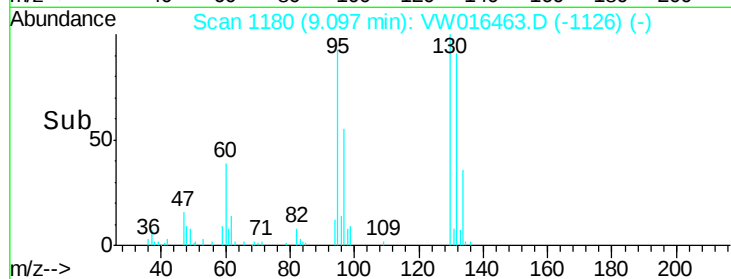
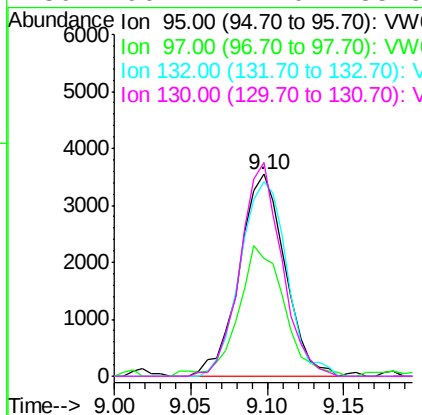
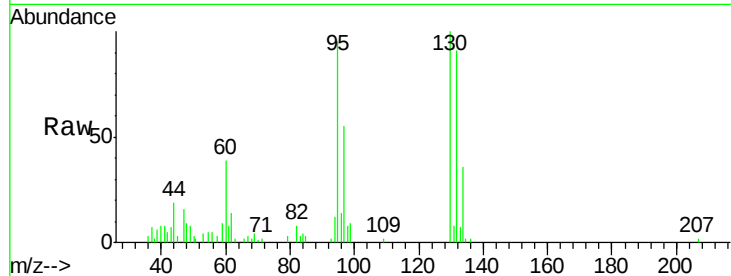
#35
 Trichloroethene
 Concen: 0.772 ug/L
 RT: 9.10 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion:	95	Resp:	7374
Ion	Ratio	Lower	Upper
95	100		
97	63.3	44.9	83.5
132	98.5	69.2	128.4
130	96.1	72.0	133.6

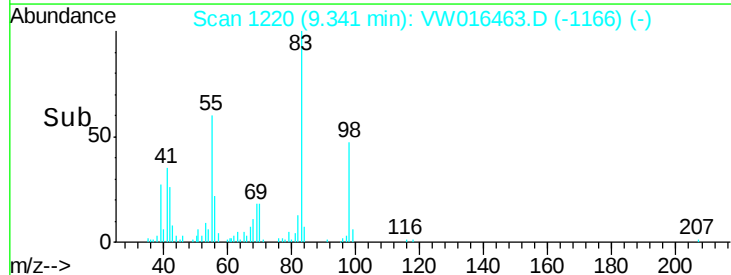
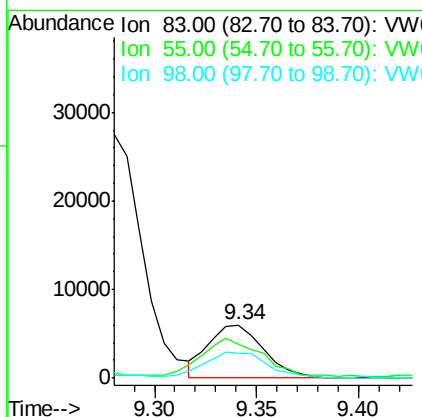
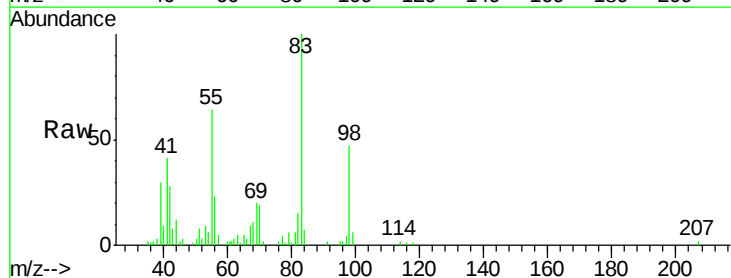
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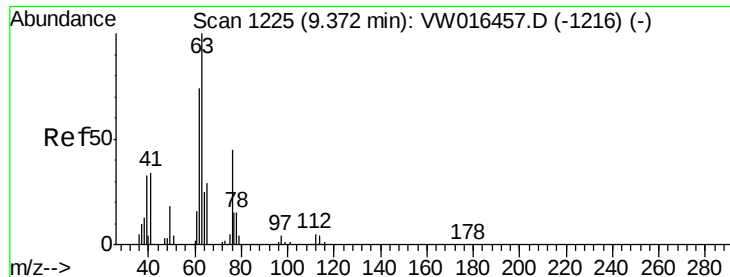
MMDadoda
 9/8/2020 10:14:48 AM



#36
 Methylcyclohexane
 Concen: 0.677 ug/L
 RT: 9.34 min Scan# 1220
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion:	83	Resp:	11314
Ion	Ratio	Lower	Upper
83	100		
55	79.6	60.9	91.3
98	55.0	40.0	60.0





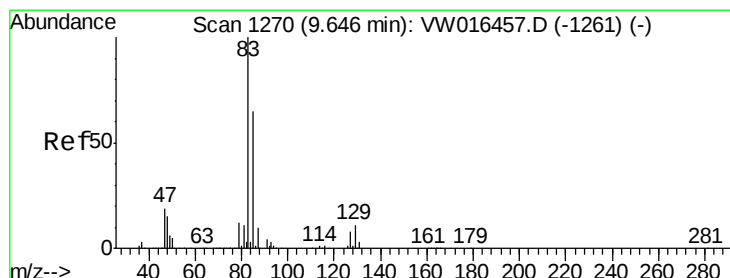
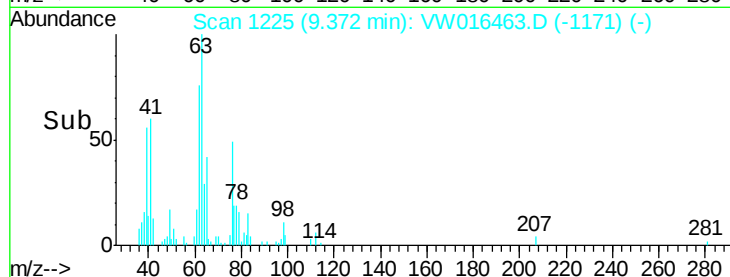
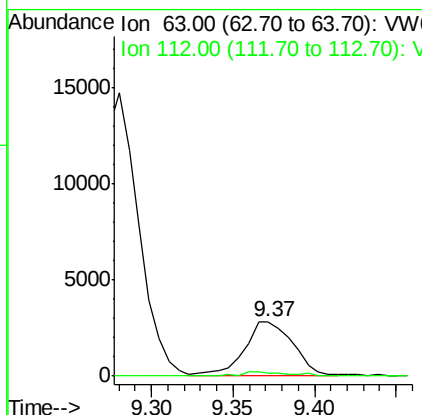
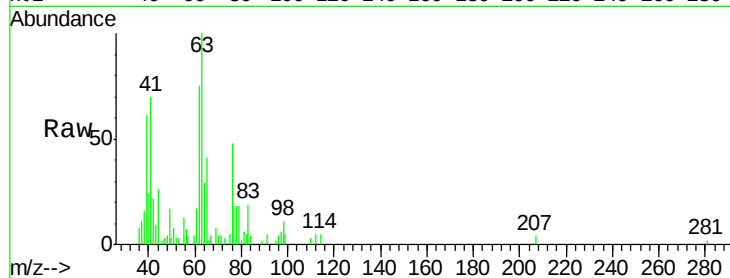
#40
 1,2-Dichloropropane
 Concen: 0.699 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
112	5.8	3.8	5.8#

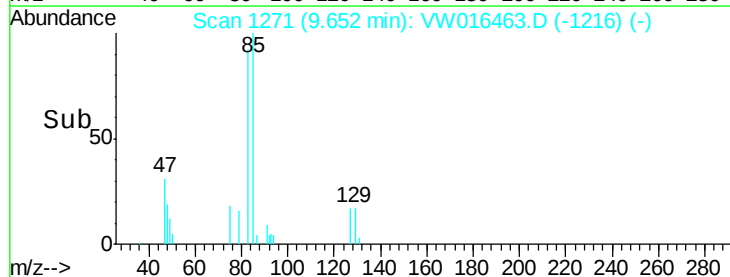
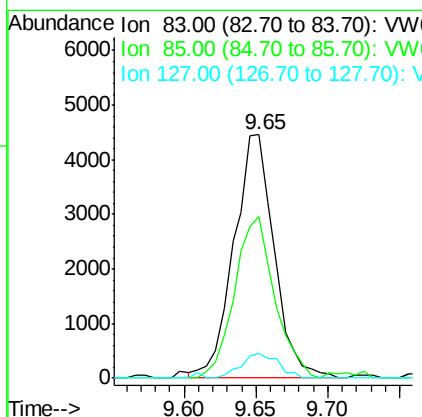
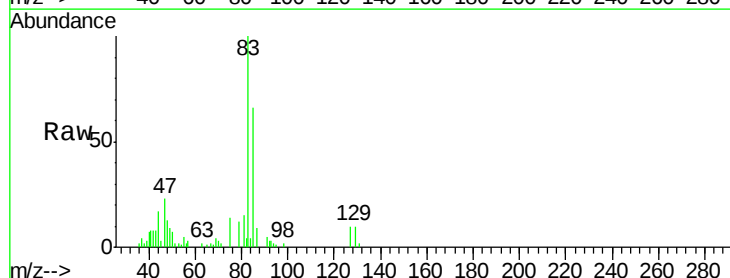
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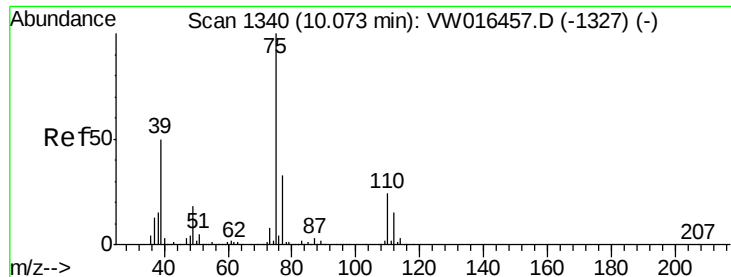
MMDadoda
 9/8/2020 10:14:48 AM



#41
 Bromodichloromethane
 Concen: 0.729 ug/L
 RT: 9.65 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	43.5	80.7
127	10.2	6.7	10.1#





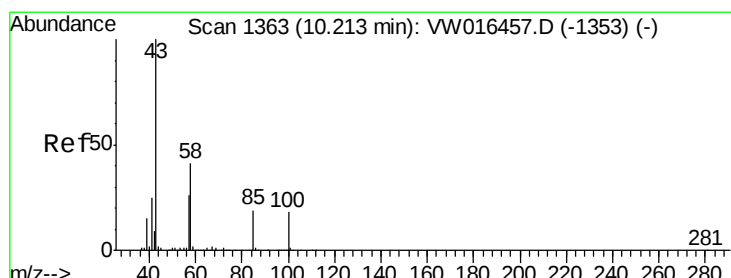
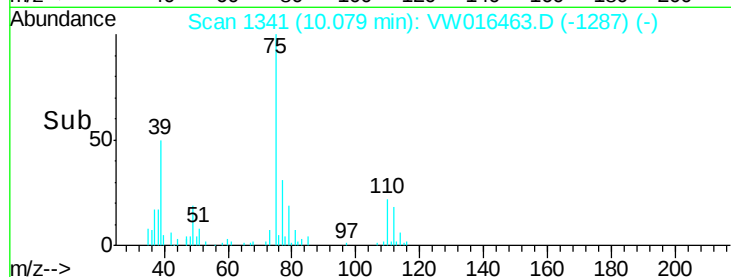
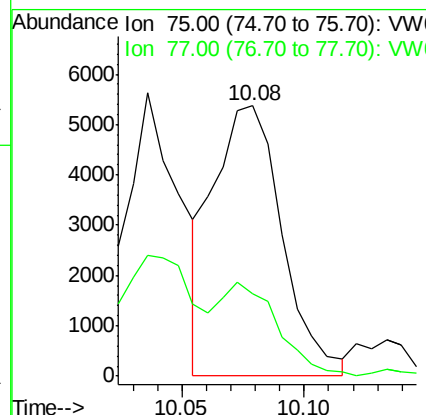
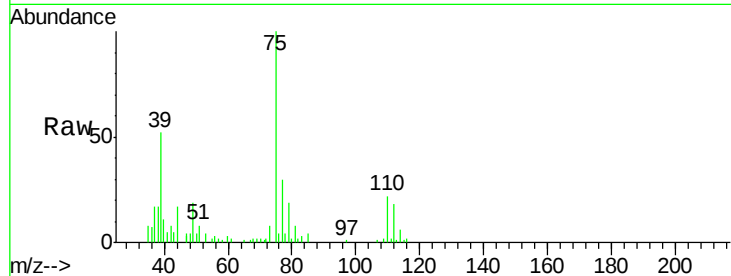
#42
 cis-1,3-Dichloropropene
 Concen: 0.725 ug/L
 RT: 10.08 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 10484
 Ion Ratio Lower Upper
 75 100
 77 30.5 20.9 38.7

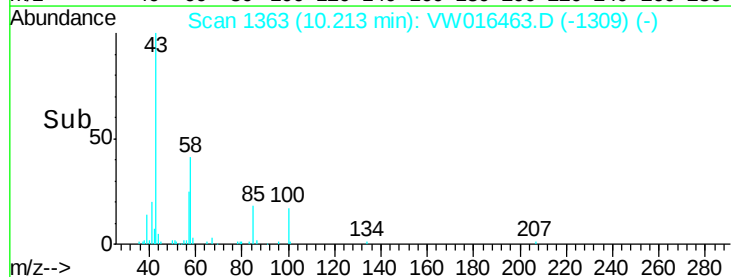
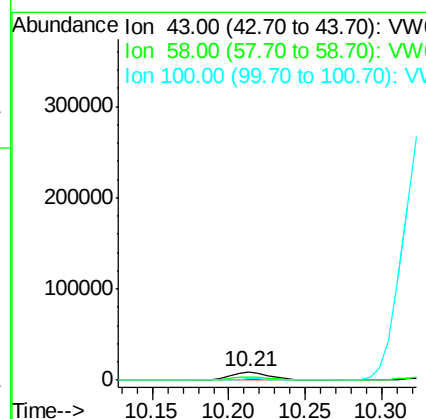
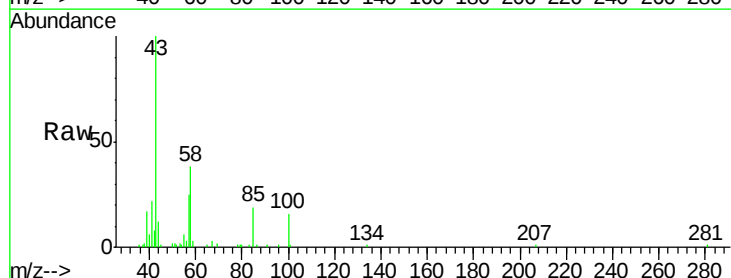
Manual Integrations
 APPROVED

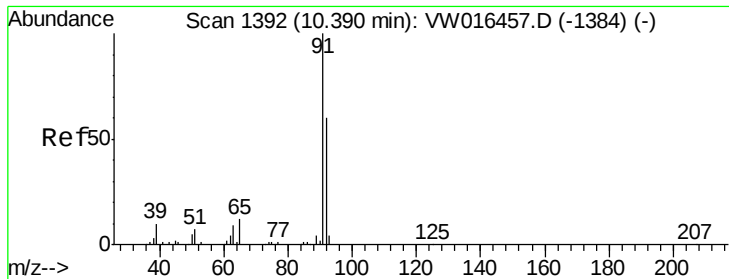
MMDadoda
 9/8/2020 10:14:48 AM



#43
 4-Methyl-2-pentanone
 Concen: 2.437 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion: 43 Resp: 14709
 Ion Ratio Lower Upper
 43 100
 58 41.4 30.6 45.8
 100 16.8 13.0 19.6





#44

Toluene

Concen: 0.743 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 28659

Ion Ratio Lower Upper

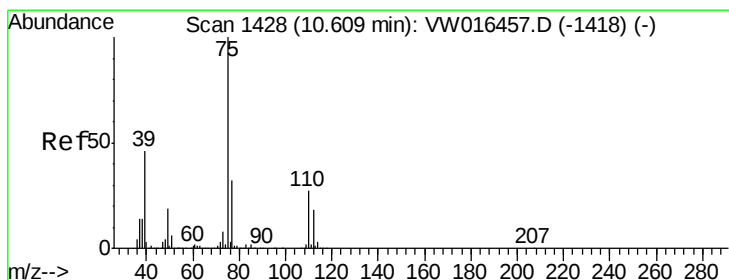
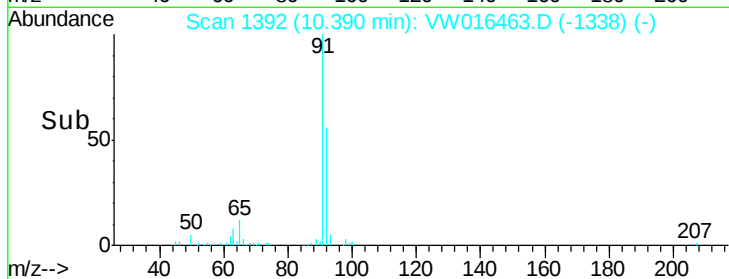
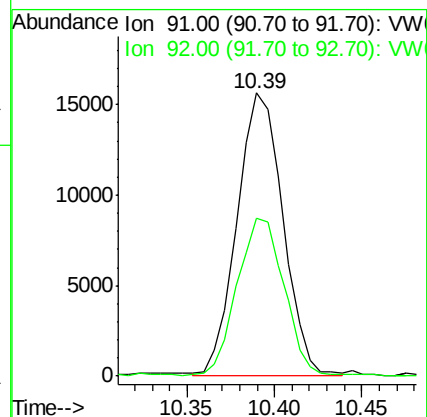
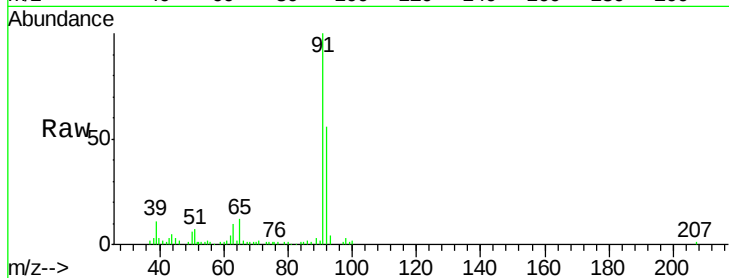
91 100

92 55.7 39.5 73.4

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MMDadoda

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#45

trans-1,3-Dichloropropene

Concen: 0.800 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016463.D

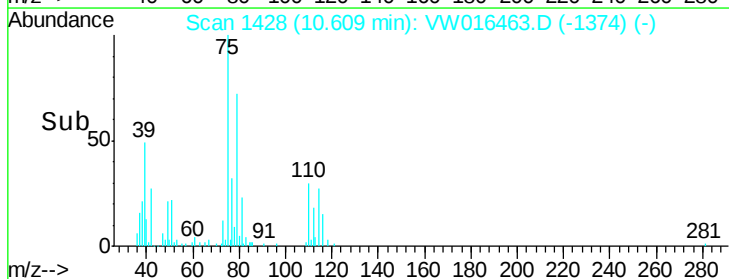
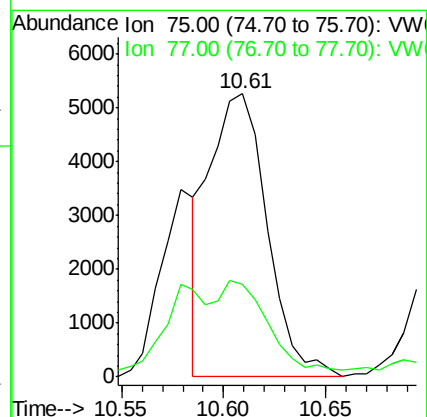
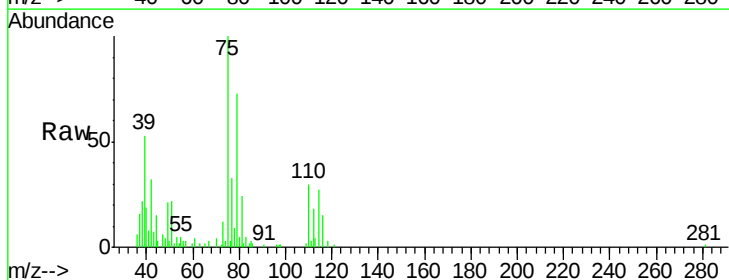
Acq: 04 Sep 2020 14:30

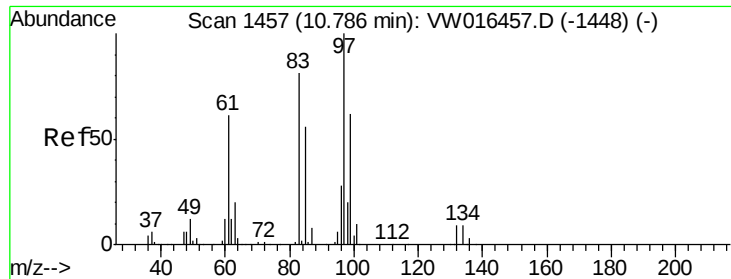
Tgt Ion: 75 Resp: 10348

Ion Ratio Lower Upper

75 100

77 33.0 21.9 40.7





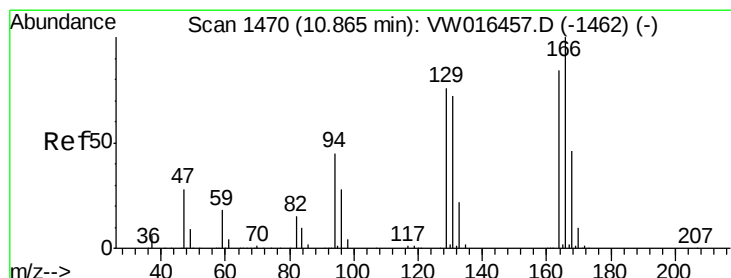
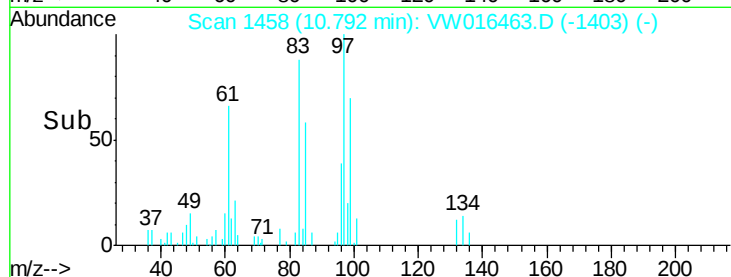
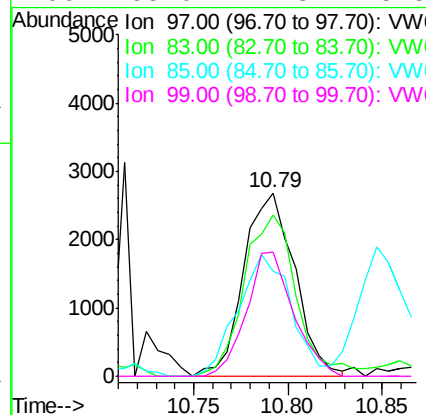
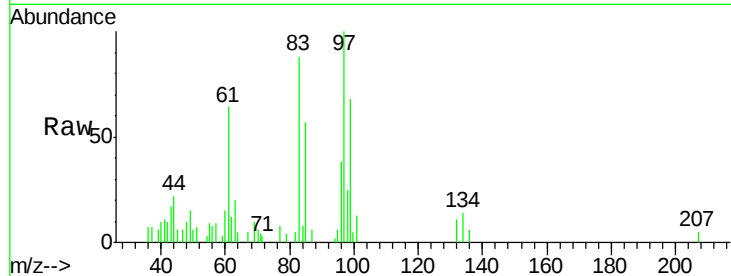
#46
 1,1,2-Trichloroethane
 Concen: 0.744 ug/L
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

Tot Ion:	97	Resp:	5026
Ion	Ratio	Lower	Upper
97	100		
83	88.3	59.7	110.9
85	56.9	37.6	69.8
99	68.0	42.3	78.5

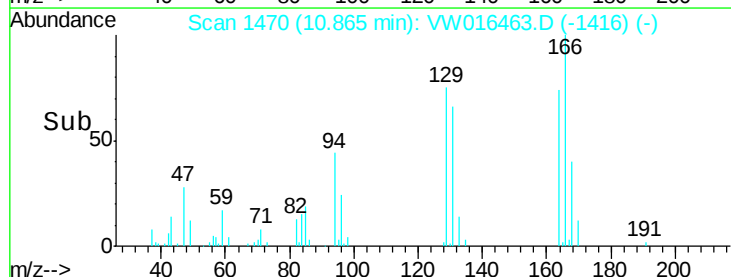
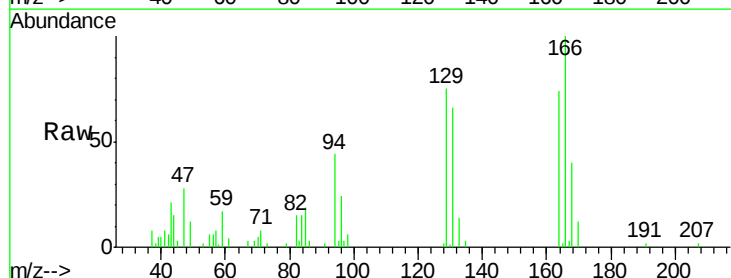
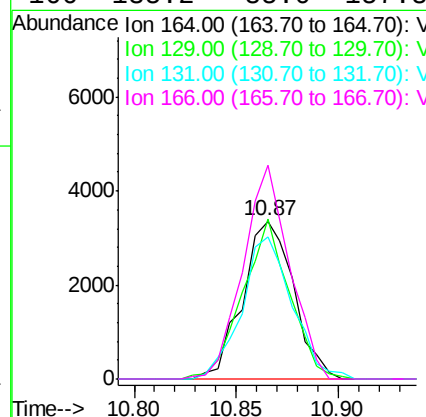
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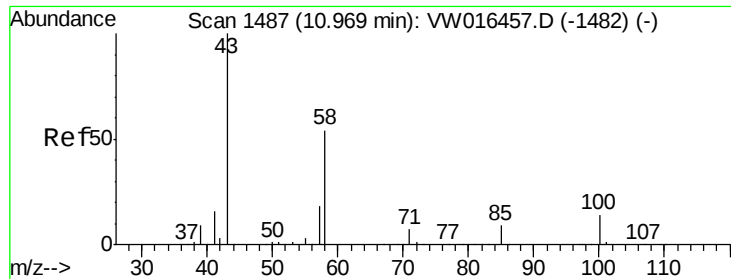
MMDadoda
 9/8/2020 10:14:48 AM



#47
 Tetrachloroethene
 Concen: 0.762 ug/L
 RT: 10.87 min Scan# 1470
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion:	164	Resp:	5833
Ion	Ratio	Lower	Upper
164	100		
129	101.0	65.7	121.9
131	89.7	61.1	113.5
166	135.2	85.0	157.8





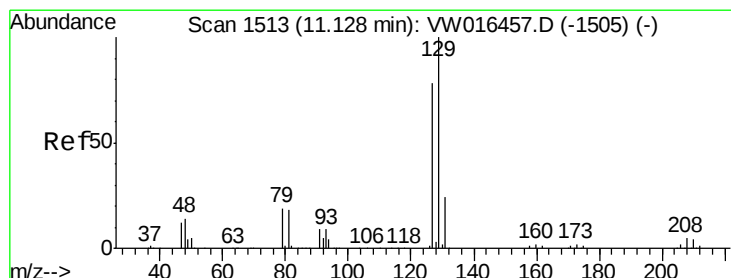
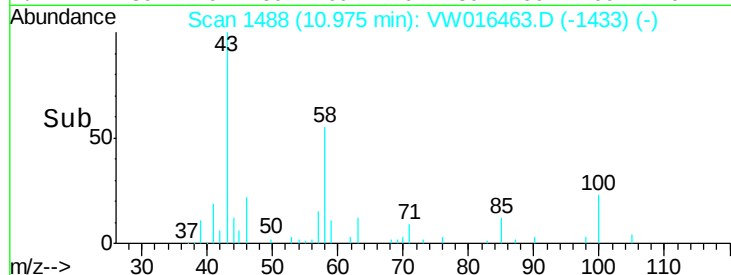
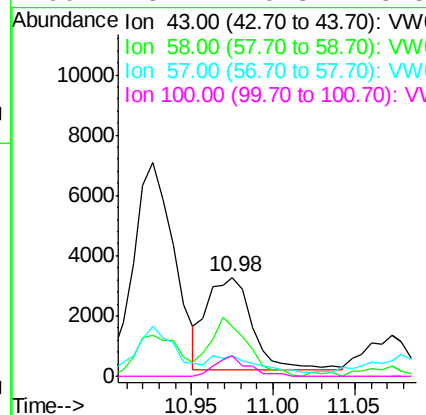
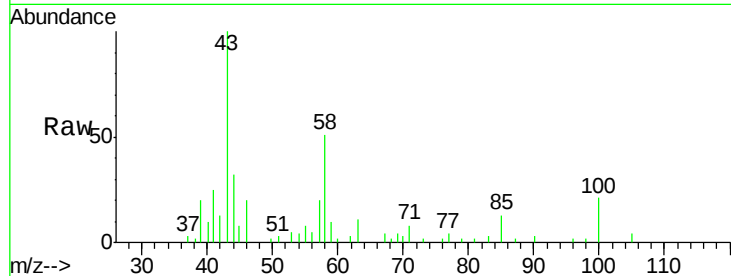
#49
2-Hexanone
Concen: 1.426 ug/L
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.8	42.1	63.1
57	25.9	14.9	22.3
100	15.1	10.3	15.5

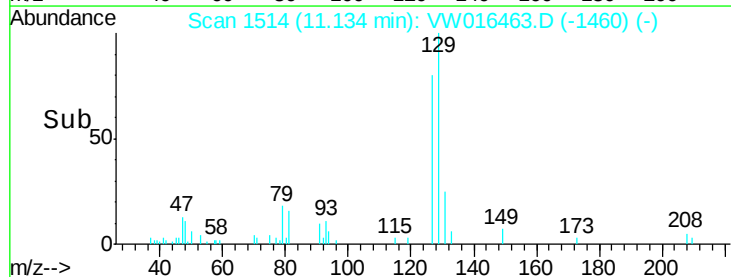
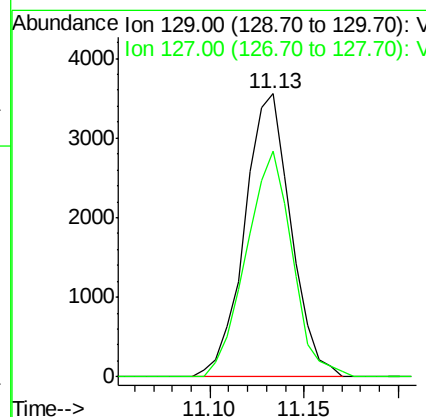
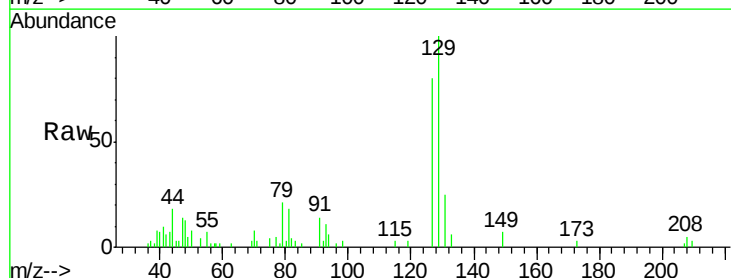
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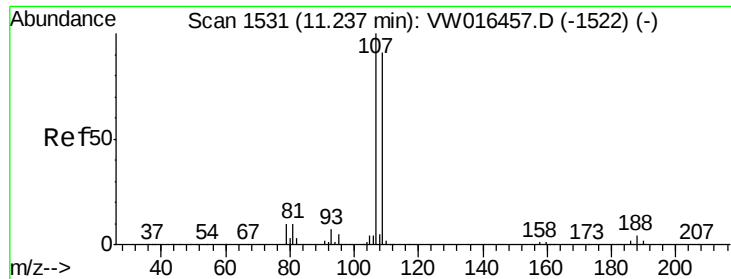
MMDadoda
9/8/2020 10:14:48 AM



#50
Dibromochloromethane
Concen: 0.711 ug/L
RT: 11.13 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.7	55.4	103.0





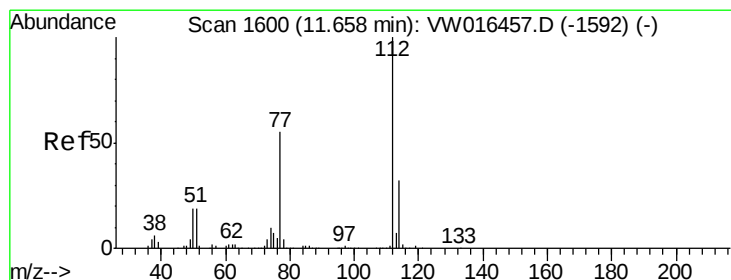
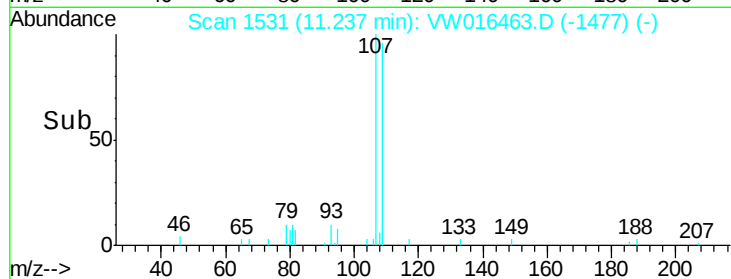
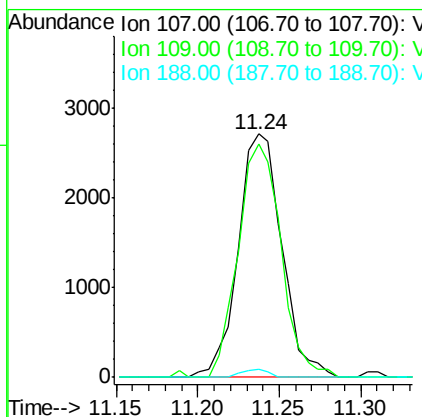
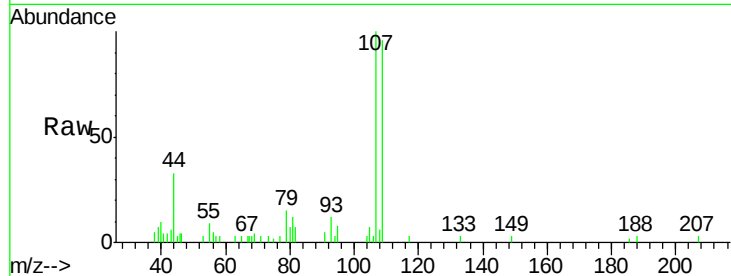
#51
 1,2-Dibromoethane
 Concen: 0.751 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.0	64.8	120.4
188	3.1	3.4	5.0#

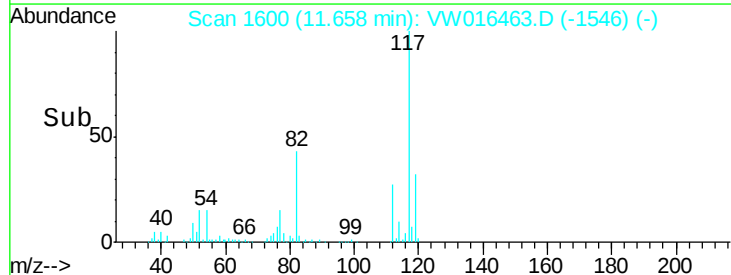
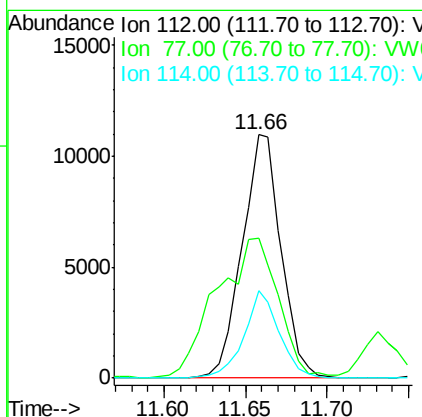
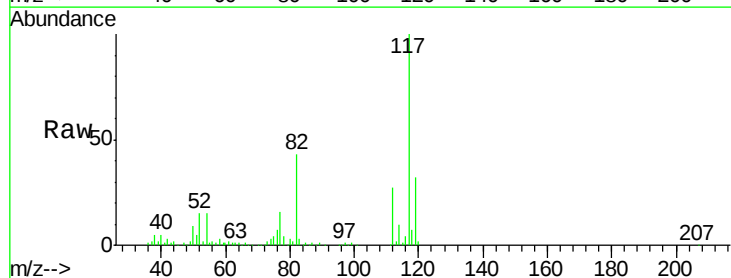
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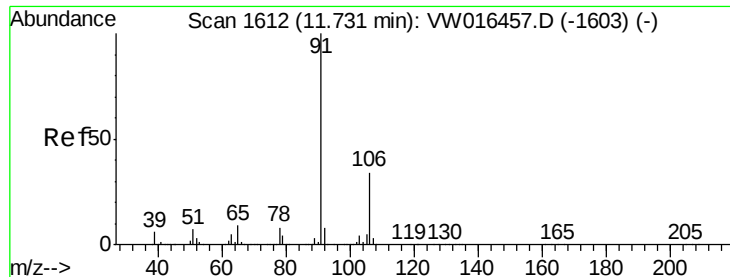
MMDadoda
 9/8/2020 10:14:48 AM



#52
 Chlorobenzene
 Concen: 0.744 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
112	100		
77	57.3	46.2	69.2
114	36.1	21.1	39.3





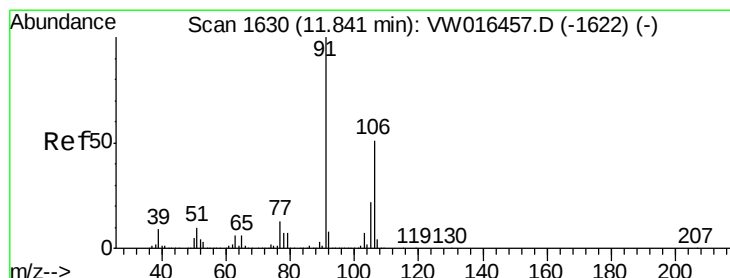
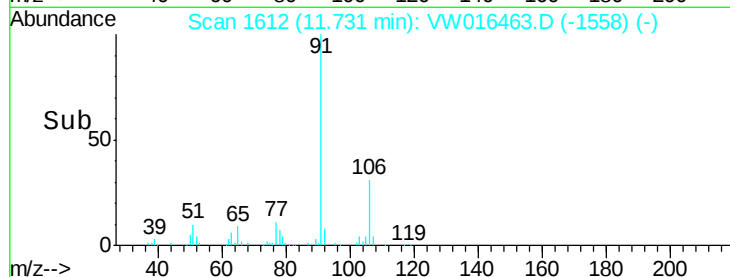
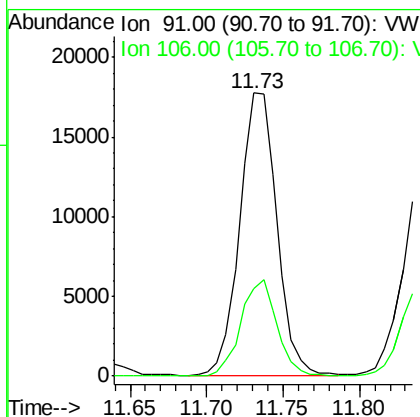
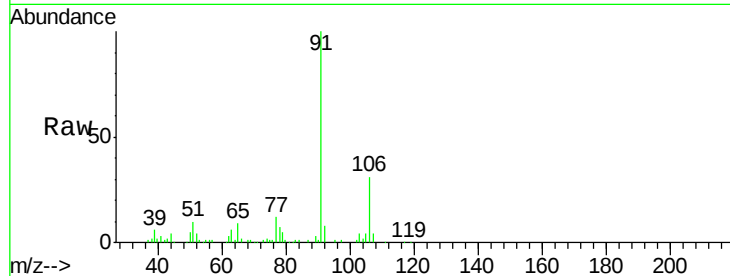
#53
Ethylbenzene
Concen: 0.694 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion: 91 Resp: 30160
Ion Ratio Lower Upper
91 100
106 31.1 21.6 40.2

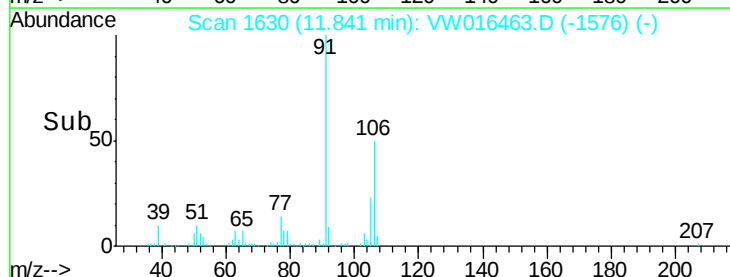
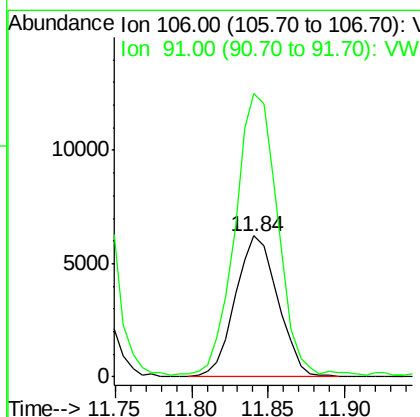
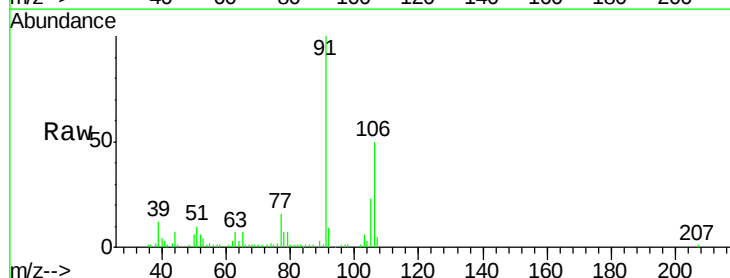
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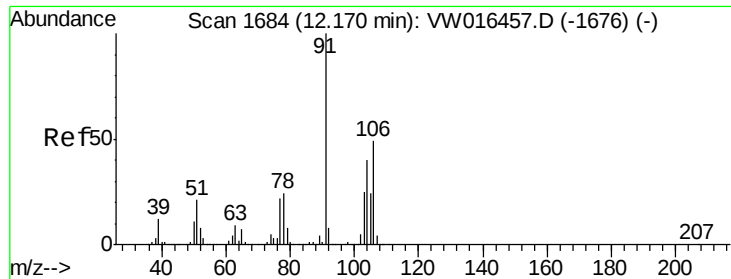
MMDadoda
9/8/2020 10:14:48 AM



#54
m,p-Xylene
Concen: 0.723 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion: 106 Resp: 12015
Ion Ratio Lower Upper
106 100
91 200.7 142.3 264.3





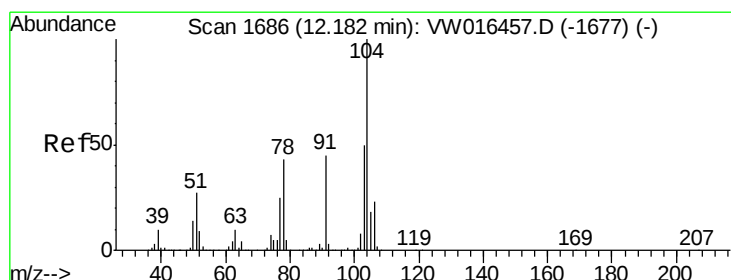
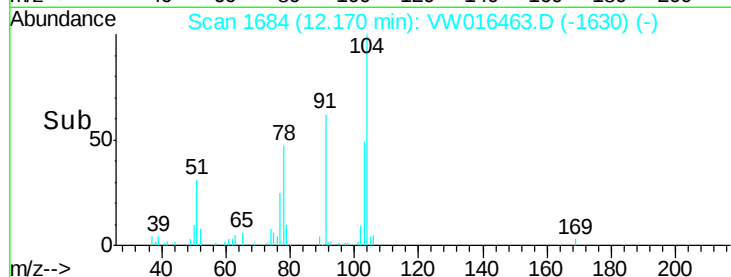
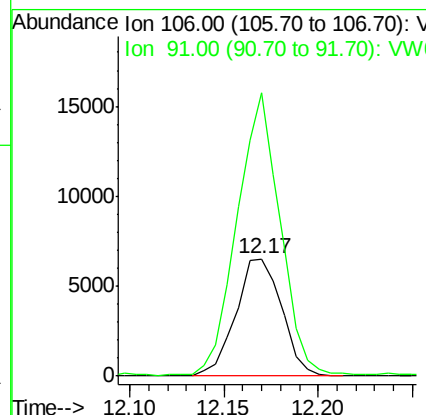
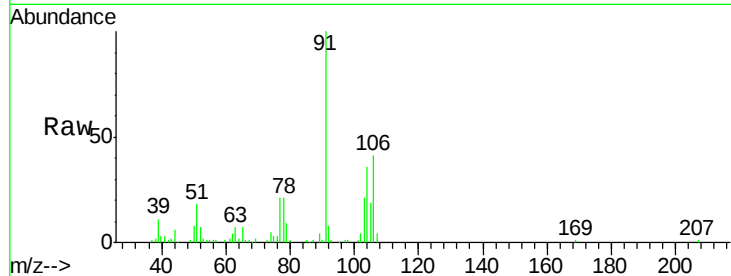
#55
o-xylene
Concen: 0.698 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion:106 Resp: 11037
Ion Ratio Lower Upper
106 100
91 241.7 144.3 267.9

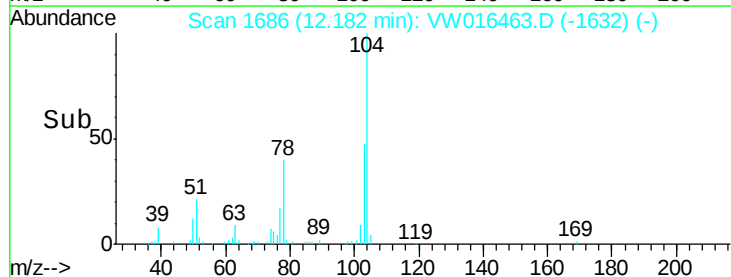
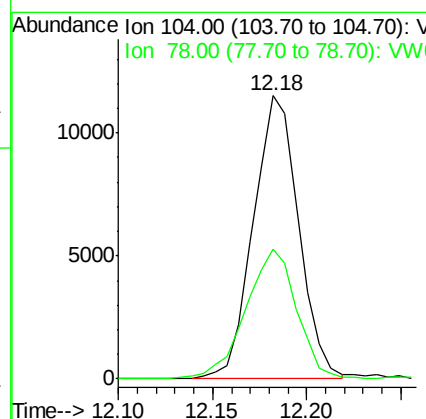
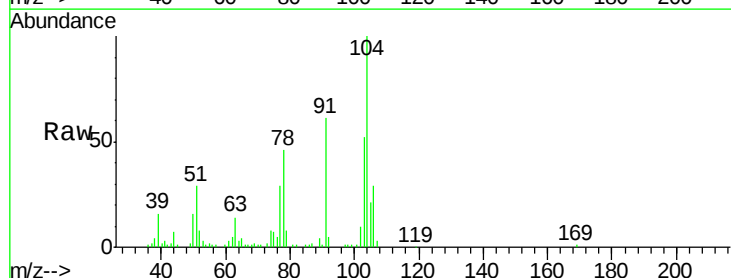
Manual Integrations
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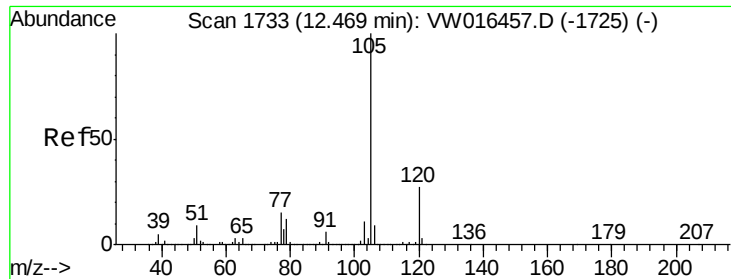
MMDadoda
9/8/2020 10:14:48 AM



#56
Styrene
Concen: 0.704 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW016463.D
Acq: 04 Sep 2020 14:30

Tgt Ion:104 Resp: 19148
Ion Ratio Lower Upper
104 100
78 46.0 32.8 61.0





#57

Isopropylbenzene

Concen: 0.769 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

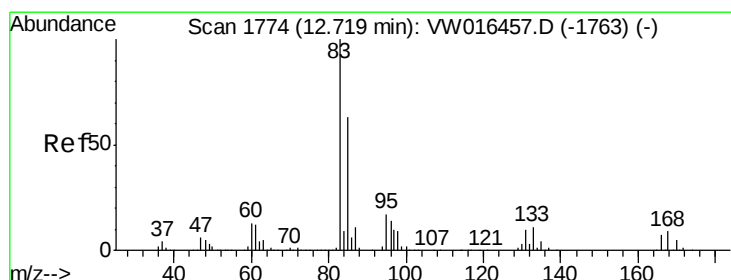
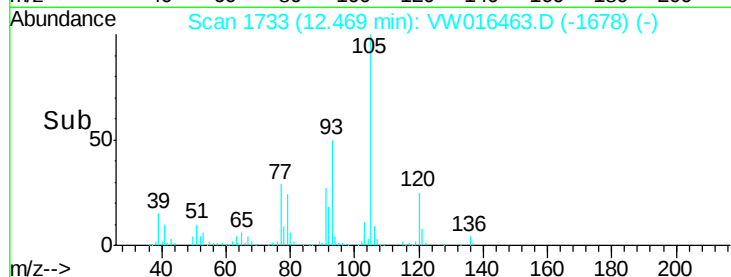
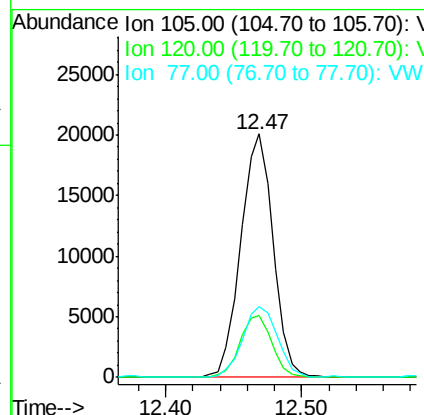
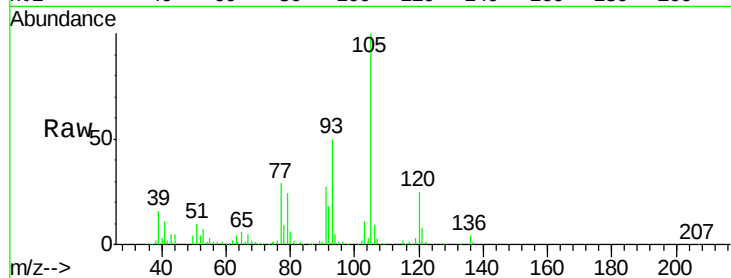
ClientSampled :

MDL05

Tot Ion:	105	Resp:	33314
Ion Ratio	Lower	Upper	
105	100		
120	25.2	21.9	32.9
77	31.8	13.0	19.6#

Manual Integrations
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MMDadoda
9/8/2020 10:14:48 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.896 ug/L

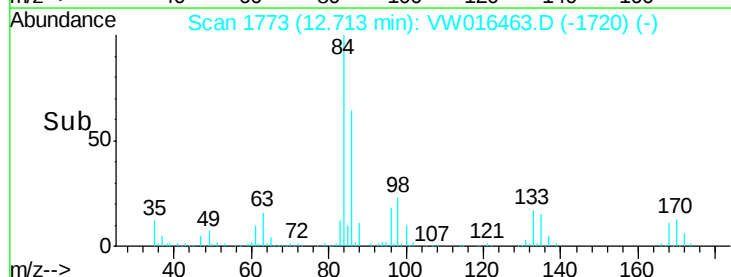
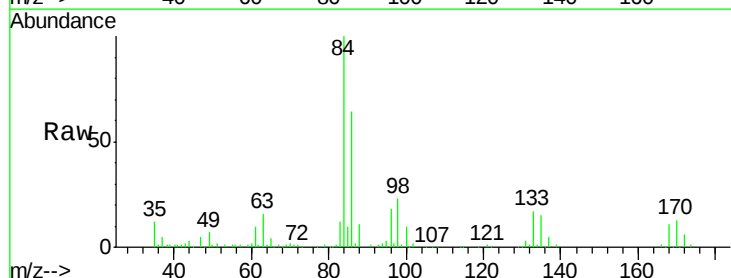
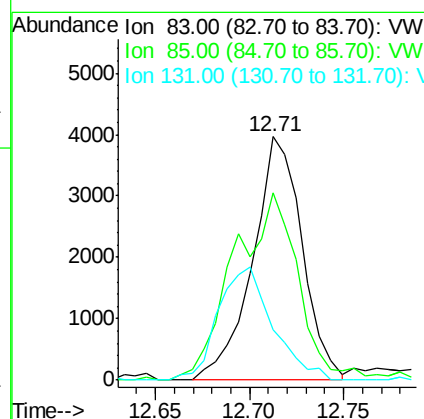
RT: 12.71 min Scan# 1773

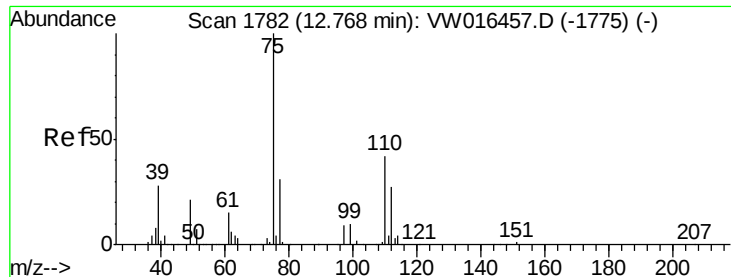
Delta R.T. -0.01 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Tgt Ion:	83	Resp:	7220
Ion Ratio	Lower	Upper	
83	100		
85	76.7	45.3	84.1
131	20.7	8.7	13.1#





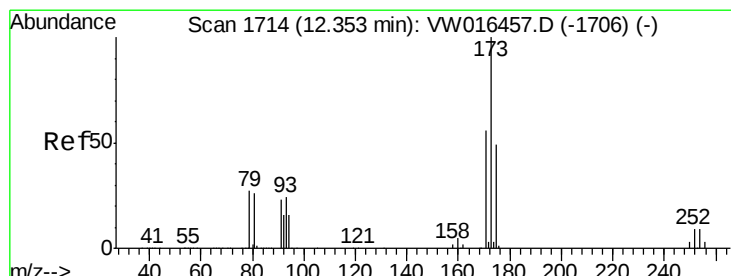
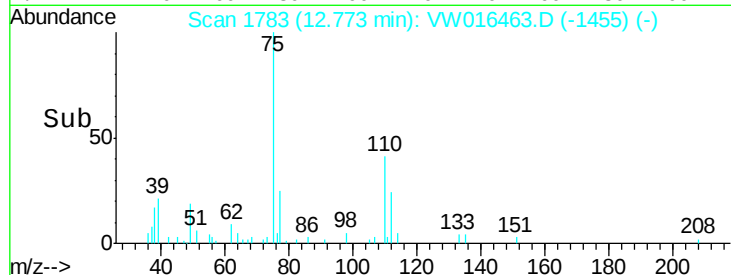
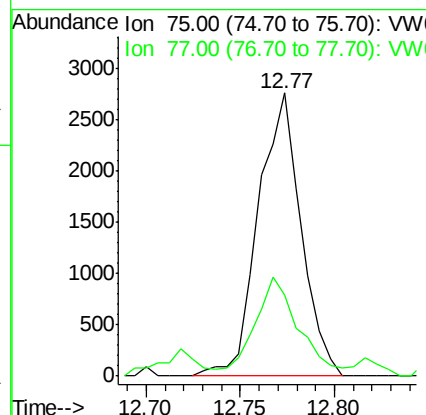
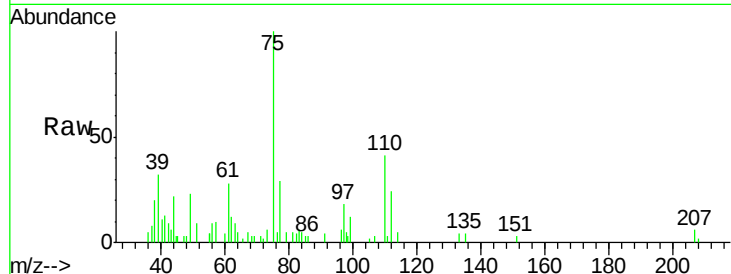
#59
 1,2,3-Trichloropropane
 Concen: 0.720 ug/L
 RT: 12.77 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 4331
 Ion Ratio Lower Upper
 75 100
 77 36.1 26.0 39.0

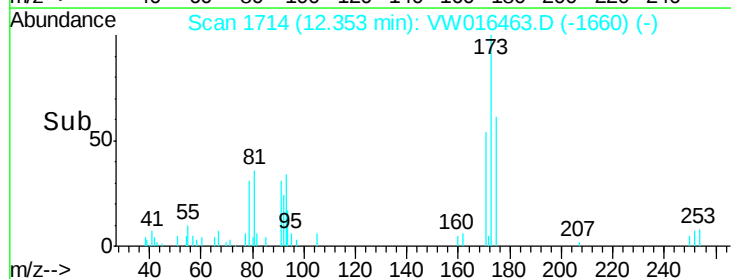
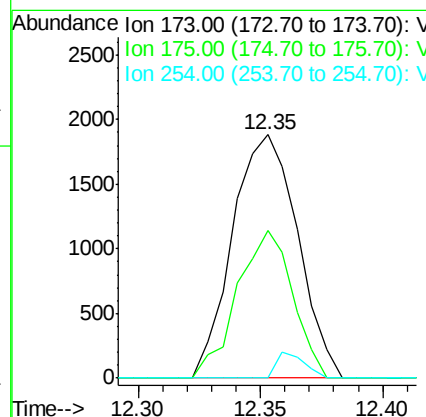
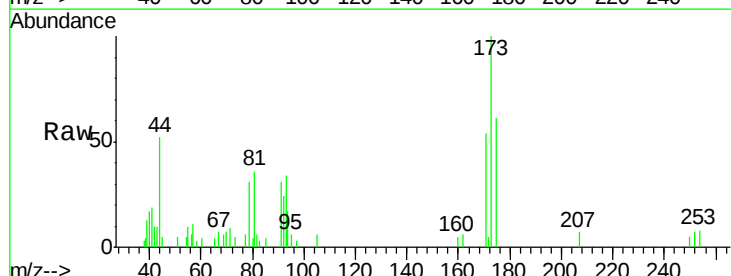
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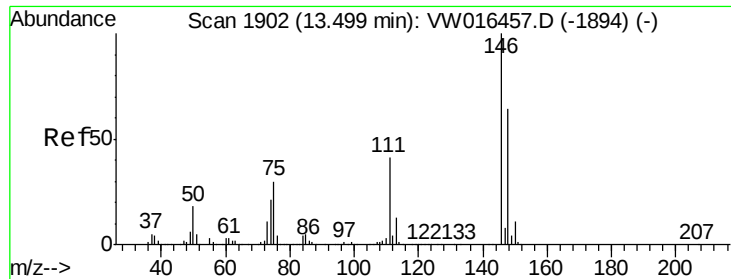
MMDadoda
 9/8/2020 10:14:48 AM



#62
 Bromoform
 Concen: 0.696 ug/L
 RT: 12.35 min Scan# 1714
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion: 173 Resp: 3479
 Ion Ratio Lower Upper
 173 100
 175 51.9 39.2 58.8
 254 4.6 5.8 8.6#





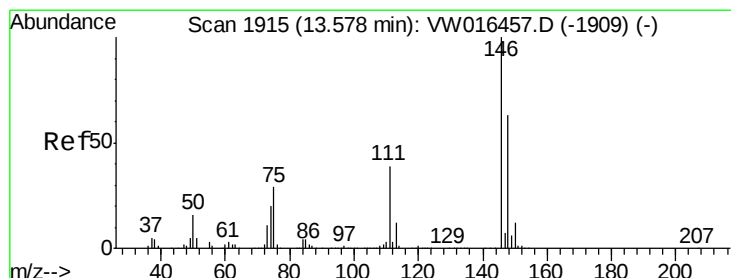
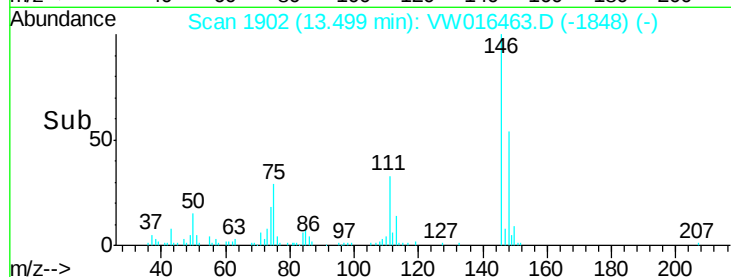
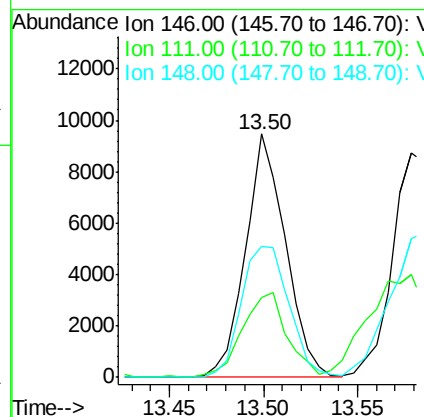
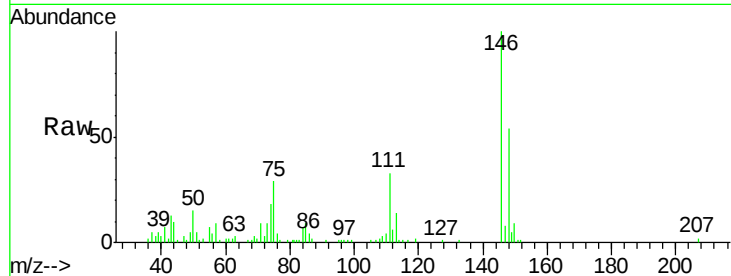
#63
 1,3-Dichlorobenzene
 Concen: 0.746 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	32.6	26.5	49.3
148	53.9	41.3	76.7

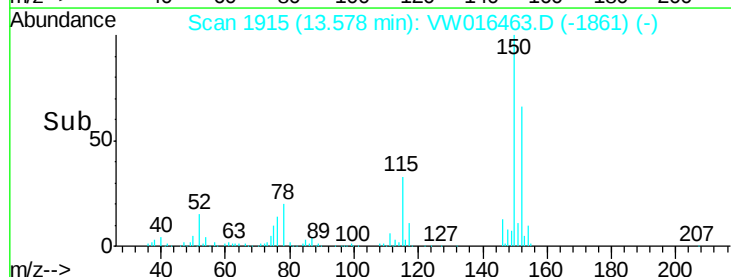
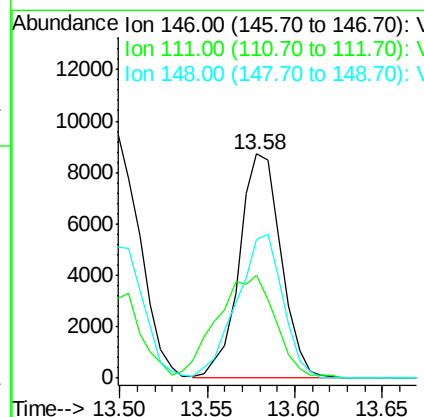
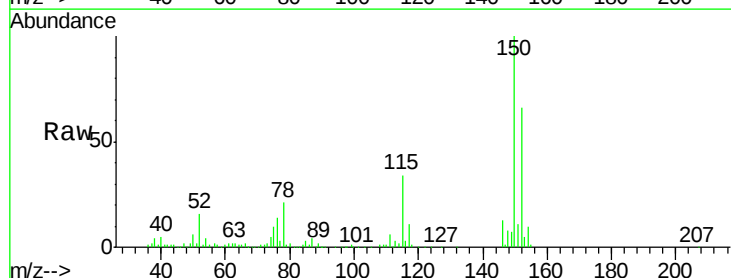
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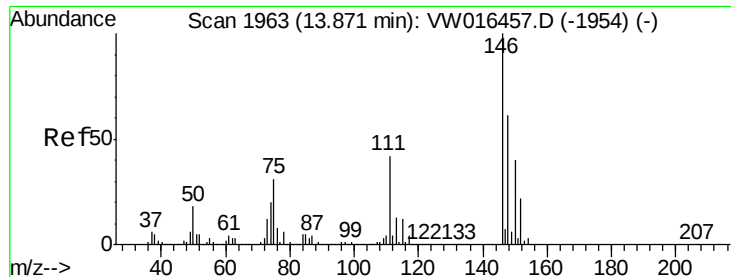
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 9/8/2020 10:14:48 AM



#64
 1,4-Dichlorobenzene
 Concen: 0.782 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	26.4	49.0
148	62.1	45.1	83.9





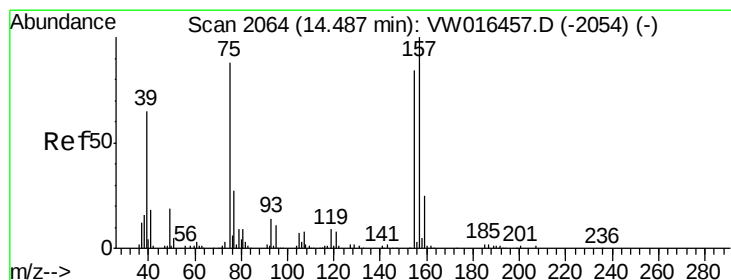
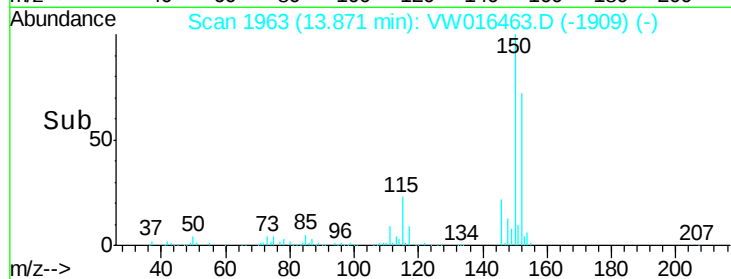
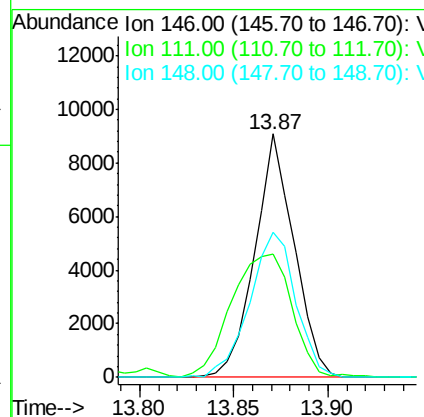
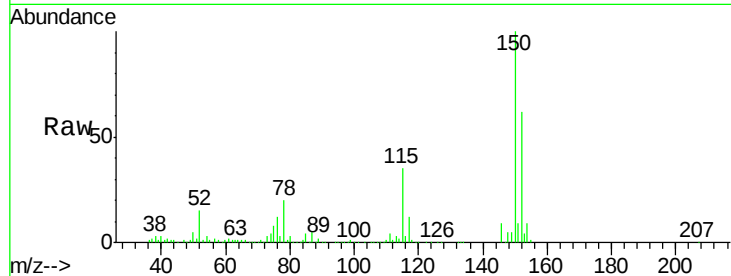
#65
 1,2-Dichlorobenzene
 Concen: 0.789 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	35.3	52.9
148	59.5	49.8	74.8

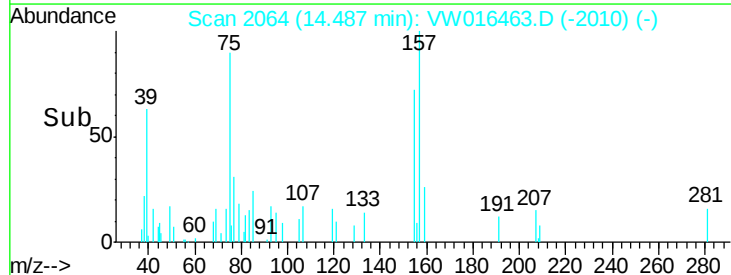
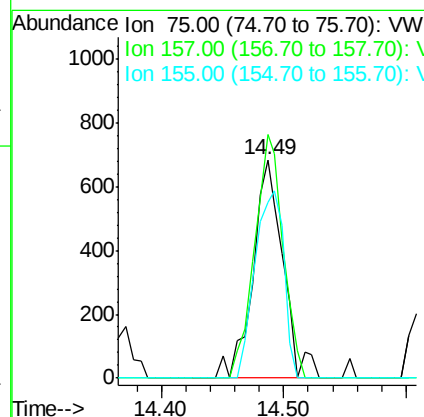
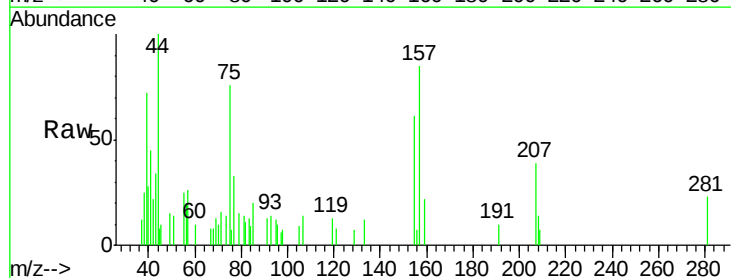
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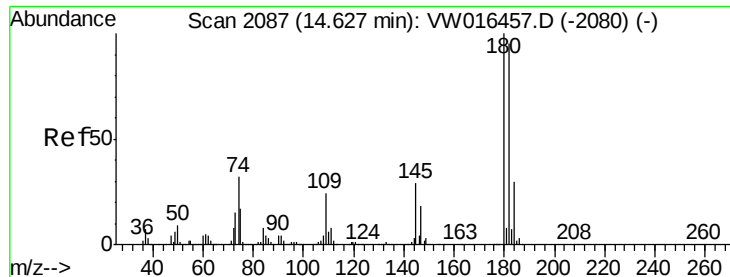
MMDadoda
 9/8/2020 10:14:48 AM



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.755 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion	Ratio	Lower	Upper
75	100		
157	111.4	91.4	137.0
155	80.2	71.3	106.9





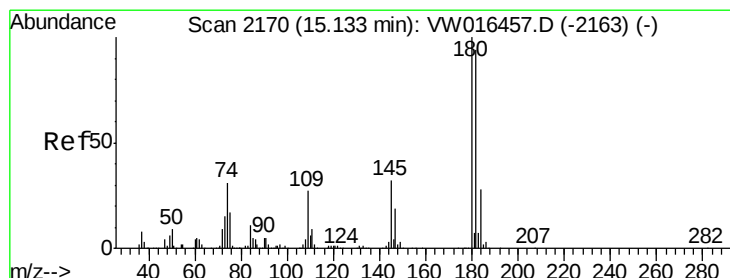
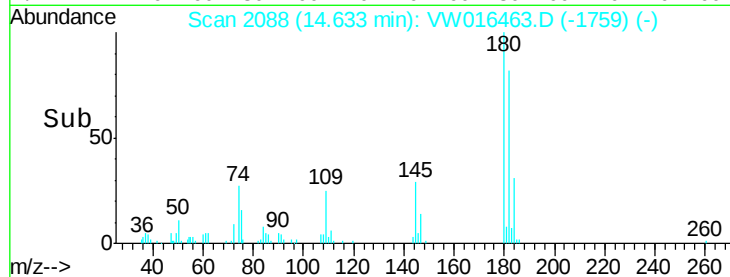
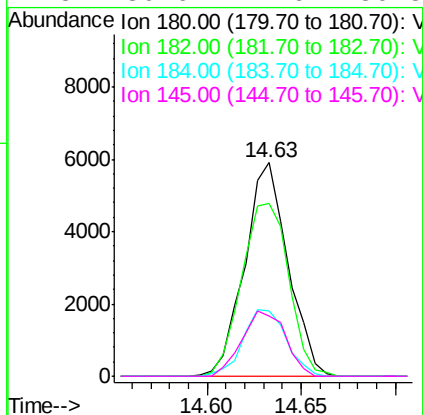
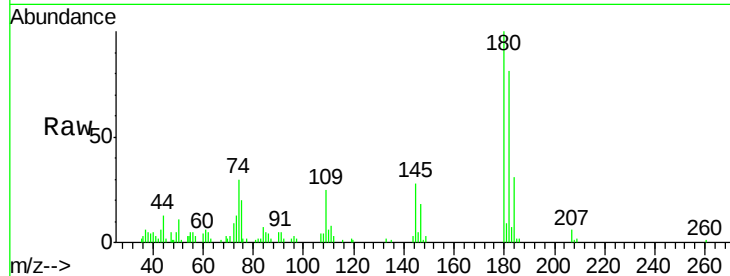
#67
 1,3,5-Trichlorobenzene
 Concen: 0.732 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion:	180	Resp:	9451
Ion	Ratio	Lower	Upper
180	100		
182	87.9	75.8	113.8
184	31.1	24.2	36.2
145	30.6	24.6	36.8

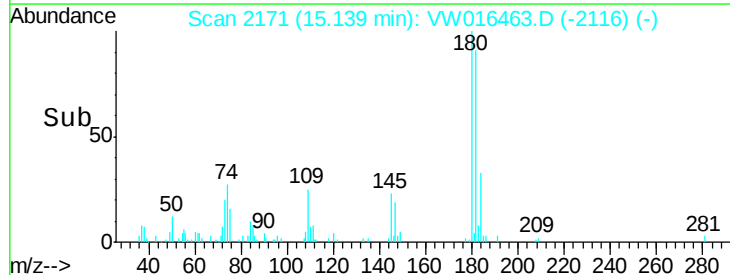
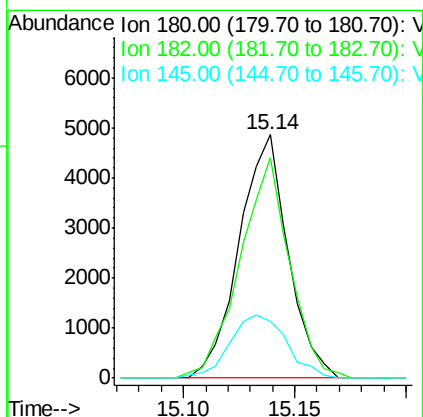
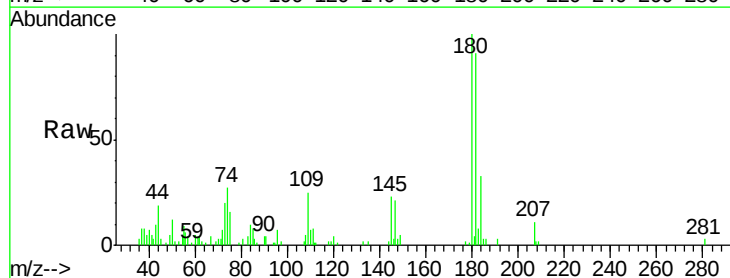
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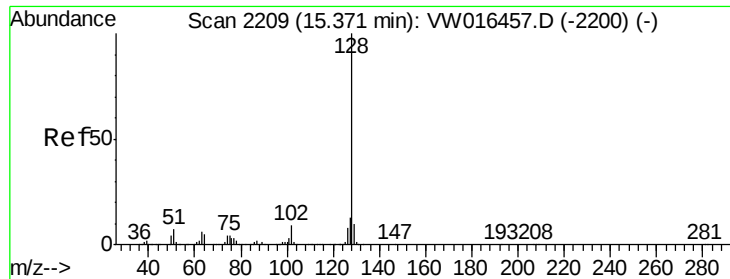
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#68
 1,2,4-trichlorobenzene
 Concen: 0.667 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW016463.D
 Acq: 04 Sep 2020 14:30

Tgt Ion:	180	Resp:	7455
Ion	Ratio	Lower	Upper
180	100		
182	91.5	78.5	117.7
145	30.3	25.6	38.4





#69

Naphthalene

Concen: 0.643 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Instrument :

MSVOA_W

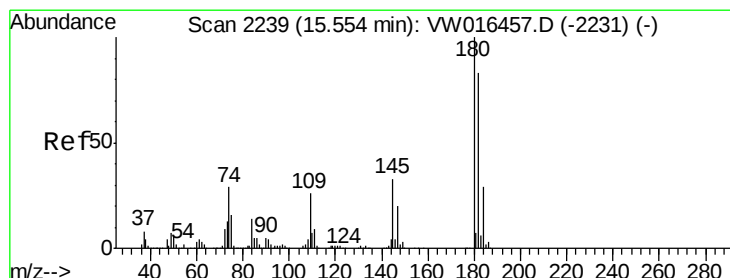
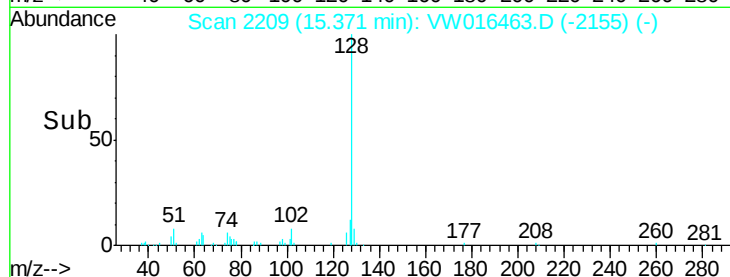
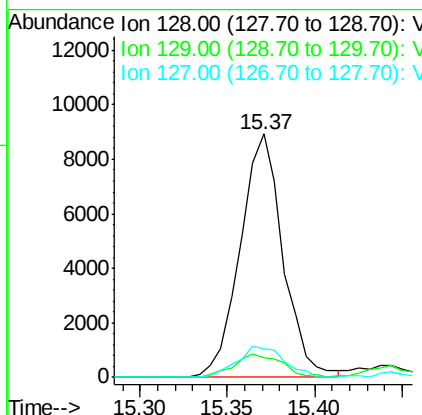
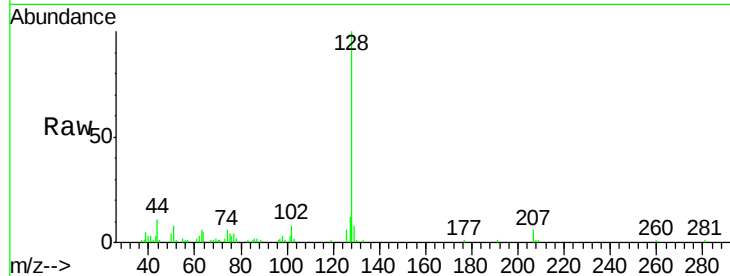
ClientSampleId :

MDL05

Tot Ion:	128	Resp:	15160
Ion Ratio	Lower	Upper	
128	100		
129	10.7	8.7	13.1
127	13.9	10.5	15.7

Manual Integrations
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MMDadoda
9/8/2020 10:14:48 AM



#70

1,2,3-Trichlorobenzene

Concen: 0.701 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW016463.D

Acq: 04 Sep 2020 14:30

Tgt Ion:	180	Resp:	6726
Ion Ratio	Lower	Upper	
180	100		
182	91.0	76.1	114.1
145	35.4	28.1	42.1

