

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092619\
 Data File : VW013309.D
 Acq On : 26 Sep 2019 17:26
 Operator : SY/VA
 Sample : MDL05
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 2:13:28 PM

Quant Time: Sep 27 08:41:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092619S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 12:57:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	415611	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	367957	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	180933	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	134512	27.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.56%
7) Chloroethane-d5	2.89	69	103934	26.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.52%
10) 1,1-Dichloroethene-d2	4.01	63	199138	20.41	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.64%
20) 2-Butanone-d5	7.07	46	111833	65.29	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	130.58%
24) Chloroform-d	7.65	84	233659	24.93	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.72%
26) 1,2-Dichloroethane-d4	8.31	65	132270	26.12	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.48%
29) Benzene-d6	8.27	84	517600	25.91	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.64%
33) 1,2-Dichloropropane-d6	9.27	67	152356	25.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.36%
37) Toluene-d8	10.32	98	484047	25.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.92%
38) trans-1,3-Dichloropropene-	10.58	79	67369	25.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.72%
39) 2-Hexanone-d5	10.92	63	84854	65.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	130.28%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	142067	28.10	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	112.40%
61) 1,2-Dichlorobenzene-d4	13.85	152	169300	26.19	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	4297m	1.652	ug/L	
3) Chloromethane	2.21	50	7639	2.192	ug/L	97
5) Vinyl chloride	2.35	62	10631	2.206	ug/L #	36
6) Bromomethane	2.77	94	6548	2.137	ug/L	90
8) Chloroethane	2.92	64	6119	2.093	ug/L	94
9) Trichlorofluoromethane	3.26	101	5623	1.882	ug/L #	72
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	12145m	2.573	ug/L	
12) 1,1-Dichloroethene	4.04	96	12255	2.558	ug/L #	1
13) Acetone	4.12	43	10134	7.108	ug/L	98
14) Carbon disulfide	4.38	76	27730	2.039	ug/L	99
15) Methyl Acetate	4.67	43	6878m	2.500	ug/L	
16) Methylene chloride	4.92	84	28176	4.538	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	18065	2.180	ug/L #	85
18) trans-1,2-Dichloroethene	5.43	96	11114	2.169	ug/L	96
19) 1,1-Dichloroethane	6.21	63	19171	2.133	ug/L	96
21) 2-Butanone	7.17	43	13398m	6.525	ug/L	
22) cis-1,2-Dichloroethene	7.17	96	12311	2.206	ug/L	92

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

23) Bromochloromethane	7.50	128	5795m	2.307	ug/L	
25) Chloroform	7.67	83	20536	2.326	ug/L	89
27) 1,2-Dichloroethane	8.40	62	12982	2.245	ug/L #	92
30) Cyclohexane	7.96	56	19722	2.232	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	16078	2.277	ug/L	99
32) Carbon tetrachloride	8.07	117	14804	2.198	ug/L	97
34) Benzene	8.32	78	45799m	2.220	ug/L	
35) Trichloroethene	9.09	95	12734	2.350	ug/L	94
36) Methylcyclohexane	9.34	83	20405	2.114	ug/L	96
40) 1,2-Dichloropropane	9.37	63	11218	2.210	ug/L #	92
41) Bromodichloromethane	9.64	83	12934	2.077	ug/L	83
42) cis-1,3-Dichloropropene	10.07	75	17087	2.108	ug/L	86
43) 4-Methyl-2-pentanone	10.21	43	25340	6.522	ug/L	91
44) Toluene	10.38	91	50338	2.241	ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	15793m	2.424	ug/L	
46) 1,1,2-Trichloroethane	10.79	97	8901	2.238	ug/L	89
47) Tetrachloroethene	10.86	164	10719	2.198	ug/L	96
49) 2-Hexanone	10.96	43	14986	5.366	ug/L	99
50) Dibromochloromethane	11.13	129	10178	2.231	ug/L	92
51) 1,2-Dibromoethane	11.24	107	8739	2.237	ug/L #	97
52) Chlorobenzene	11.66	112	31202	2.205	ug/L	95
53) Ethylbenzene	11.73	91	53500	2.149	ug/L	100
54) m,p-Xylene	11.84	106	20225	2.116	ug/L	97
55) o-xylene	12.16	106	18777	2.082	ug/L	92
56) Styrene	12.18	104	31999	2.069	ug/L	97
57) Isopropylbenzene	12.46	105	51892	2.127	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	12103	2.471	ug/L #	95
59) 1,2,3-Trichloropropane	12.77	75	9288	2.541	ug/L	99
62) Bromoform	12.35	173	6381	2.229	ug/L #	94
63) 1,3-Dichlorobenzene	13.50	146	24564	2.206	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	23958	2.130	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	23368	2.307	ug/L	93
66) 1,2-Dibromo-3-chloropropan	14.49	75	2379	2.982	ug/L	82
67) 1,3,5-Trichlorobenzene	14.63	180	17586	2.051	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	13130	1.919	ug/L	98
69) Naphthalene	15.36	128	23997	1.836	ug/L	97
70) 1,2,3-Trichlorobenzene	15.56	180	12257	1.969	ug/L	98

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

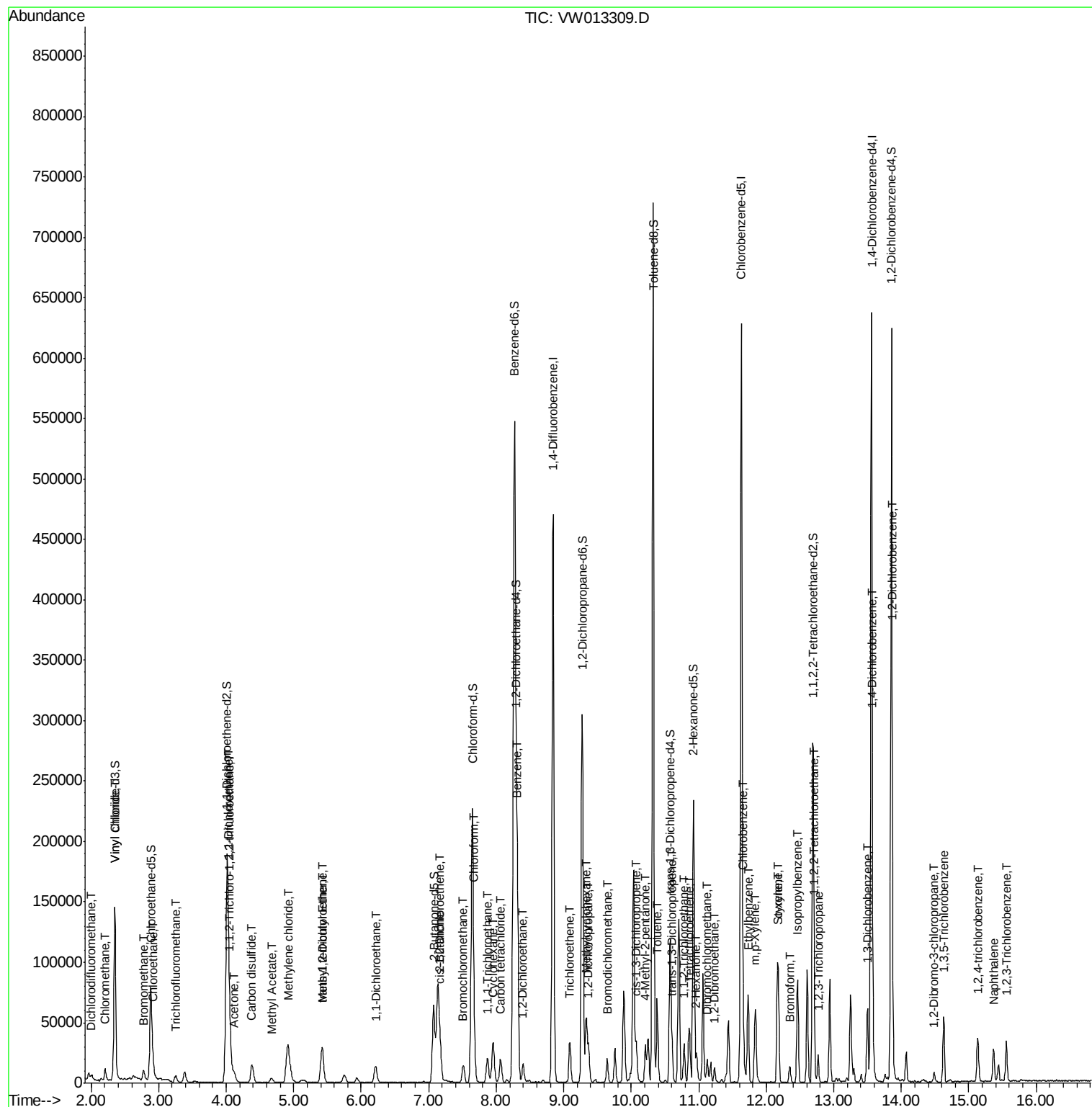
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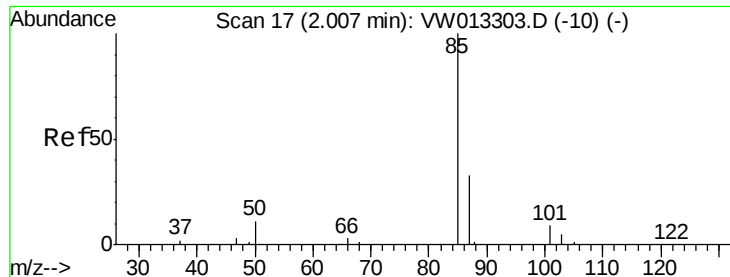
Instrument :
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ClientSampleId :
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#2

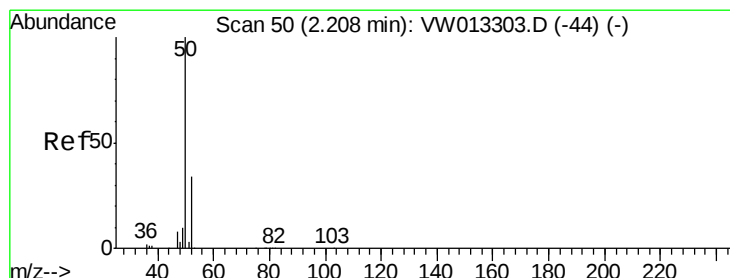
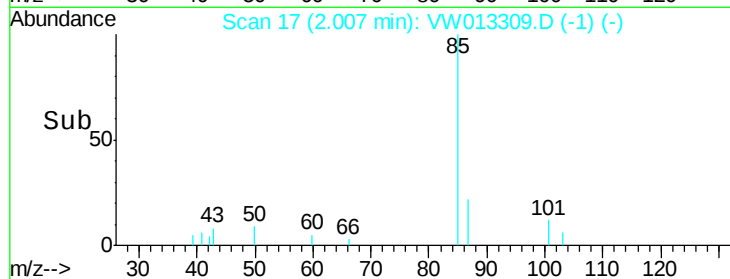
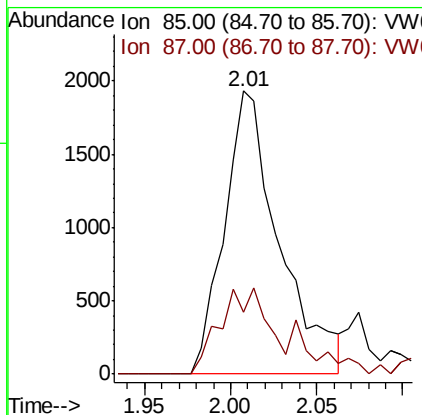
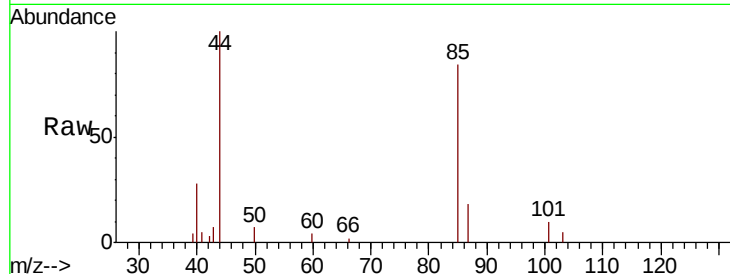
Dichlorodifluoromethane
Concen: 1.652 ug/L m
RT: 2.01 min Scan# 17
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion	85.00	Resp	4297
Ion Ratio	Lower	Upper	
85	100		
87	26.6	21.3	39.6

Manual Integrations
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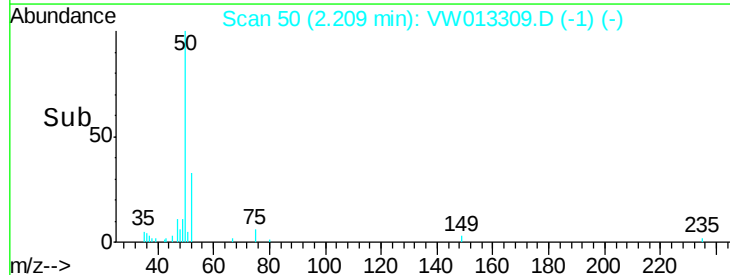
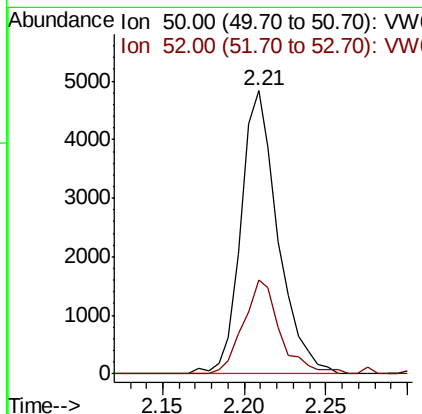
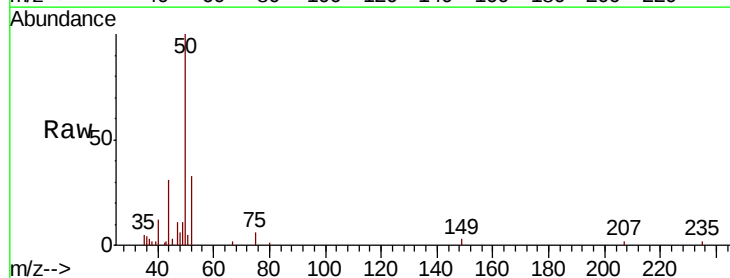
MMDadoda
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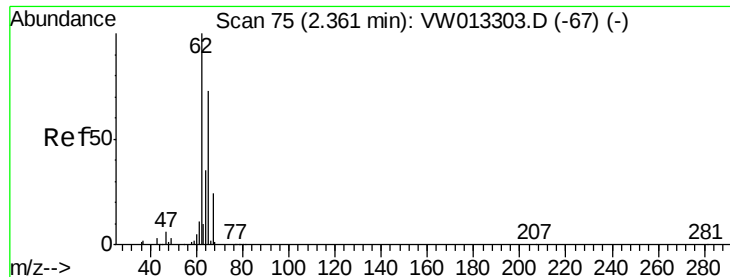


#3

Chloromethane
Concen: 2.192 ug/L
RT: 2.21 min Scan# 50
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion	50.00	Resp	7639
Ion Ratio	Lower	Upper	
50	100		
52	33.3	24.4	45.4





#5

Vinyl chloride

Concen: 2.206 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

ClientSampled :

MDL05

Tot Ion: 62 Resp: 10631

Ion Ratio Lower Upper

62 100

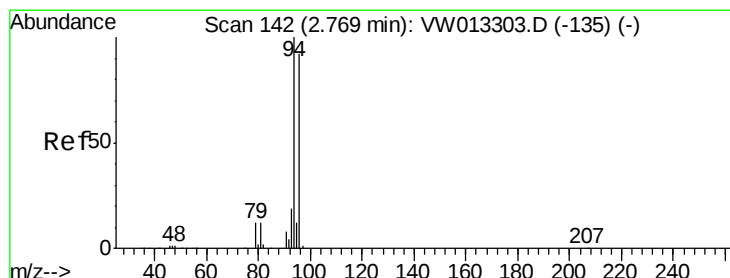
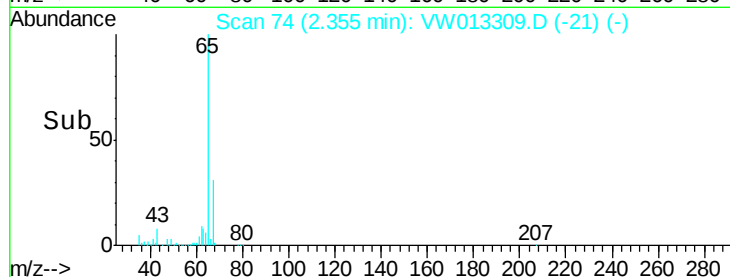
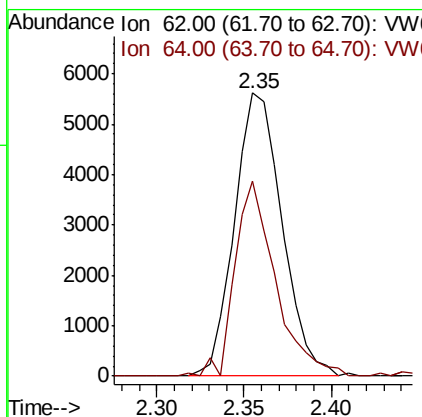
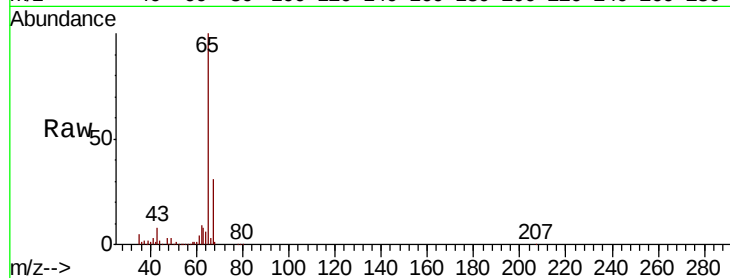
64 69.1 23.2 43.0#

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#6

Bromomethane

Concen: 2.137 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013309.D

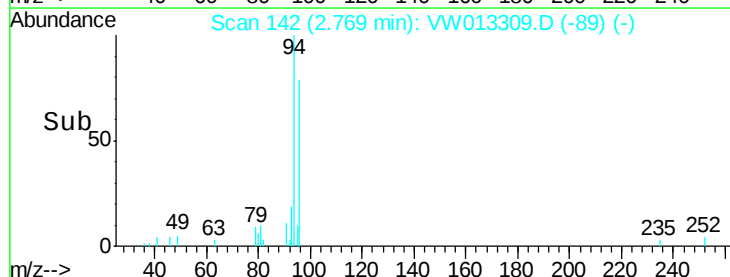
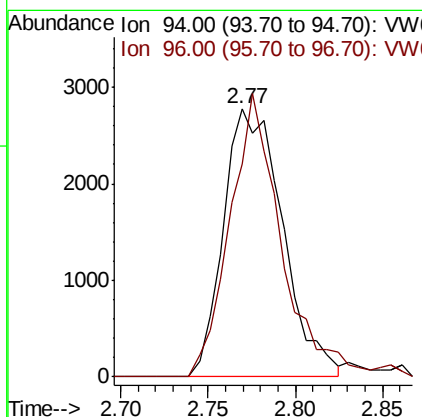
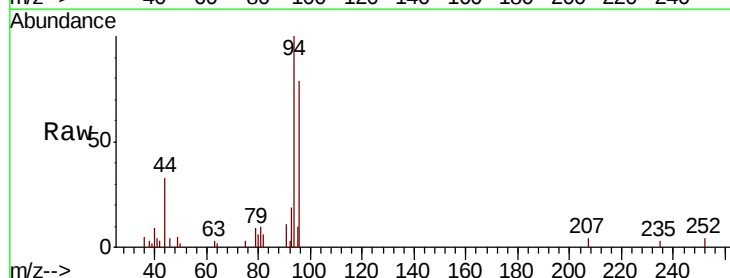
Acq: 26 Sep 2019 17:26

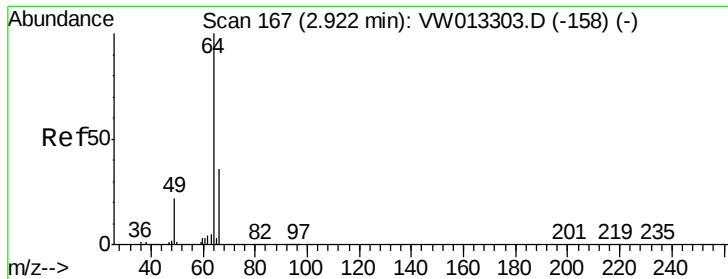
Tgt Ion: 94 Resp: 6548

Ion Ratio Lower Upper

94 100

96 87.1 9.7 184.3





#8

Chloroethane

Concen: 2.093 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 64 Resp: 6119

Ion Ratio Lower Upper

64 100

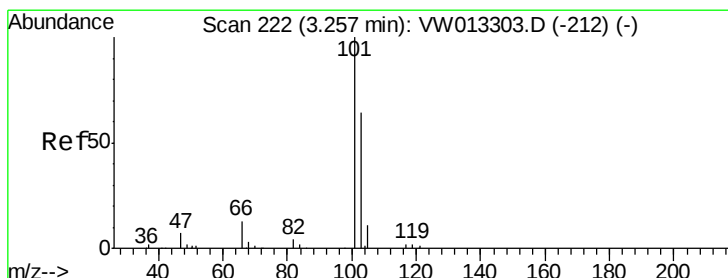
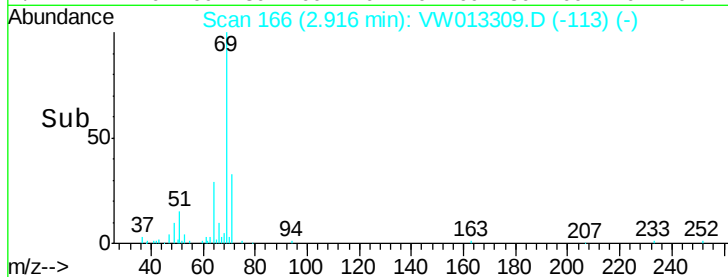
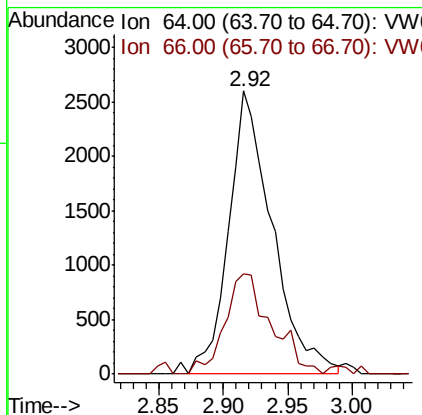
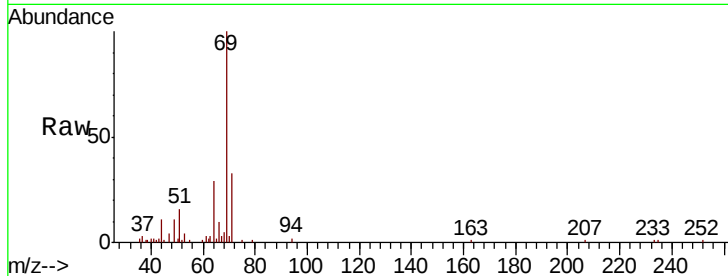
66 35.6 22.7 42.1

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 1.882 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW013309.D

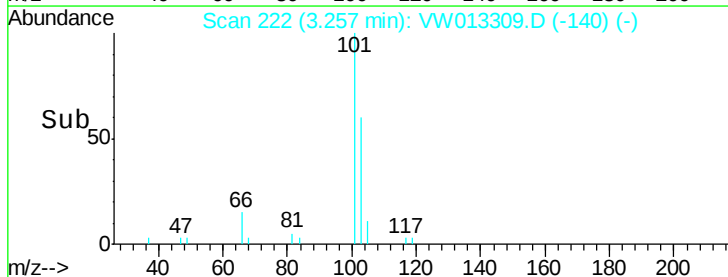
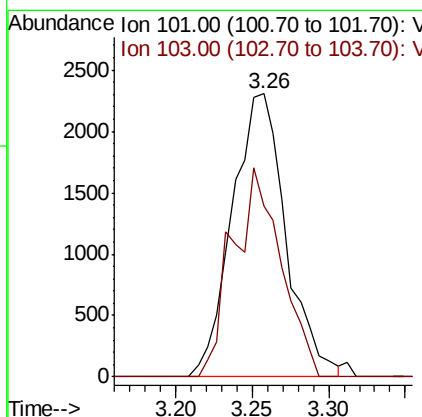
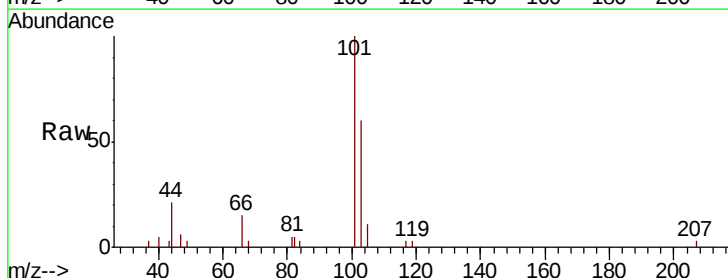
Acq: 26 Sep 2019 17:26

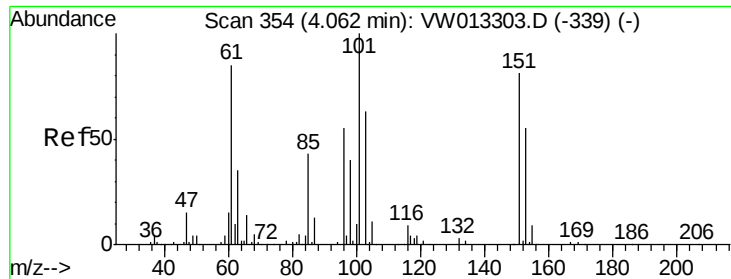
Tgt Ion: 101 Resp: 5623

Ion Ratio Lower Upper

101 100

103 42.5 45.2 84.0#





#11

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

Concen: 2.573 ug/L m

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

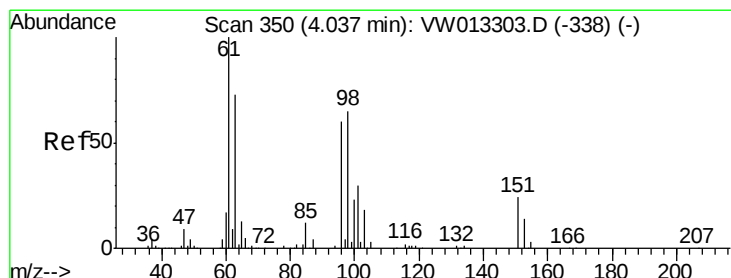
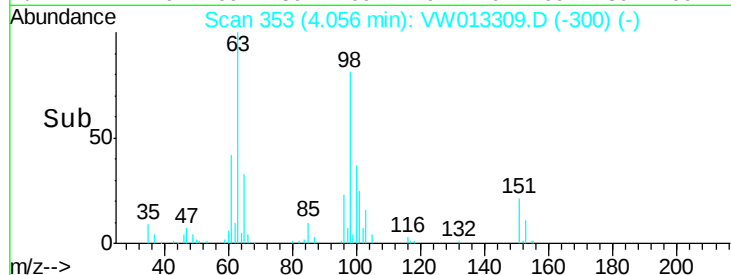
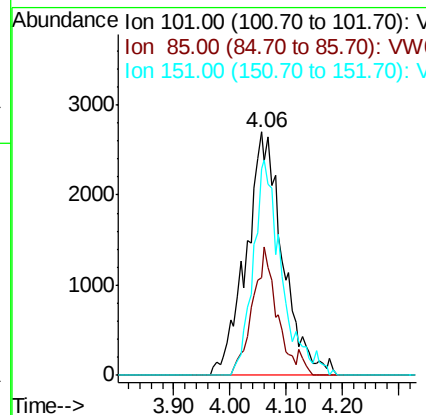
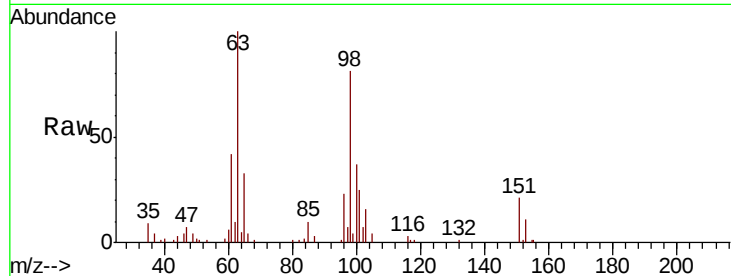
ClientSampleId :

MDL05

Tot Ion:	101	Resp:	12145
Ion Ratio	Lower	Upper	
101	100		
85	34.1	31.8	47.8
151	61.1	65.4	98.0#

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#12

1,1-Dichloroethene

Concen: 2.558 ug/L

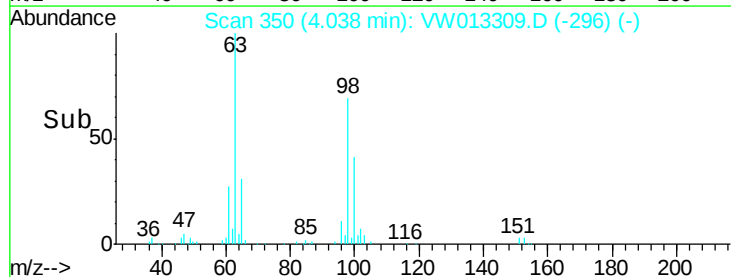
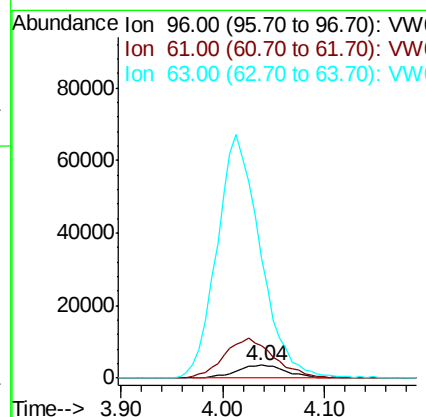
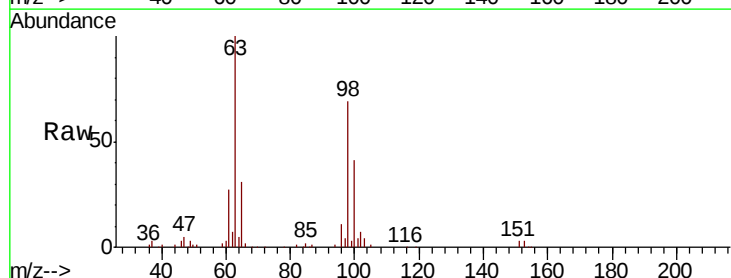
RT: 4.04 min Scan# 350

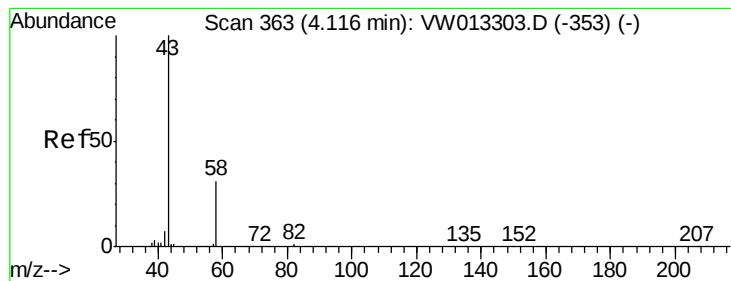
Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Tgt Ion:	96	Resp:	12255
Ion Ratio	Lower	Upper	
96	100		
61	249.8	115.9	215.3#
63	930.1	88.9	165.1#





#13

Acetone

Concen: 7.108 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 10134

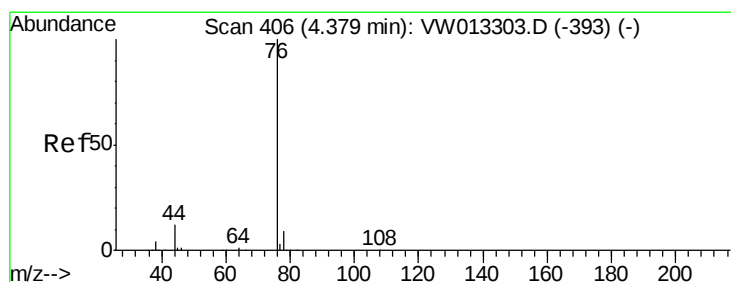
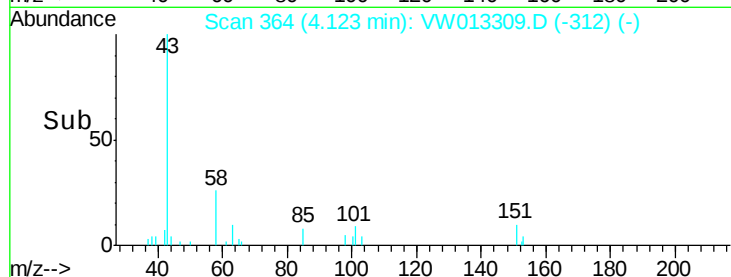
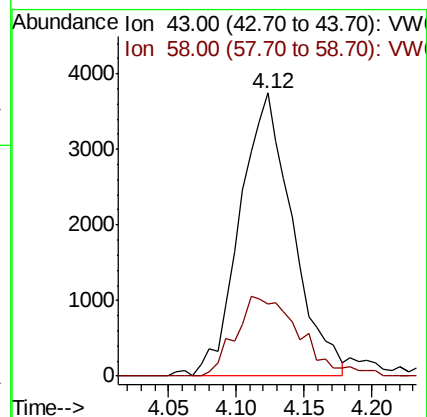
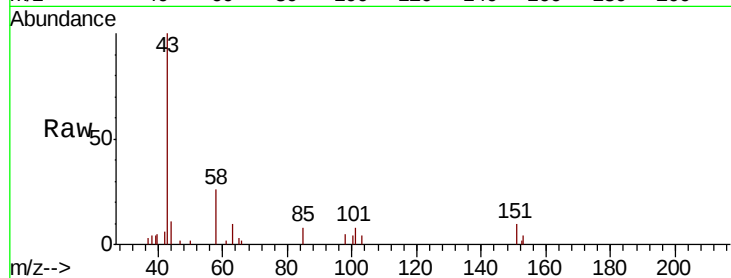
Ion Ratio Lower Upper

43 100

58 32.7 0.0 63.2

Manual Integrations
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#14

Carbon disulfide

Concen: 2.039 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

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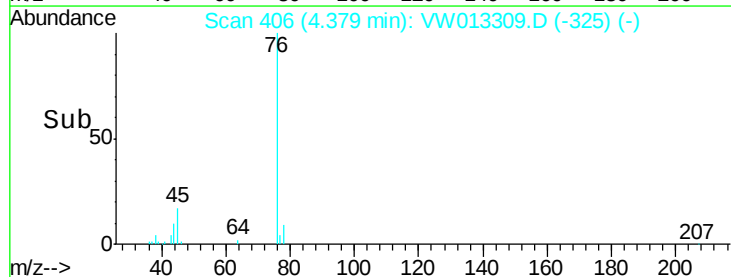
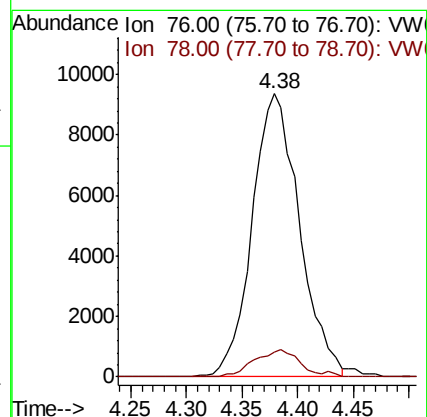
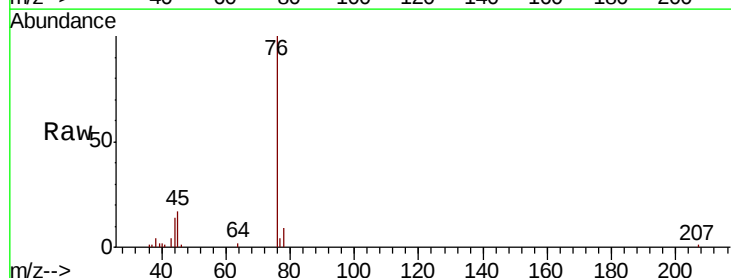
Acq: 26 Sep 2019 17:26

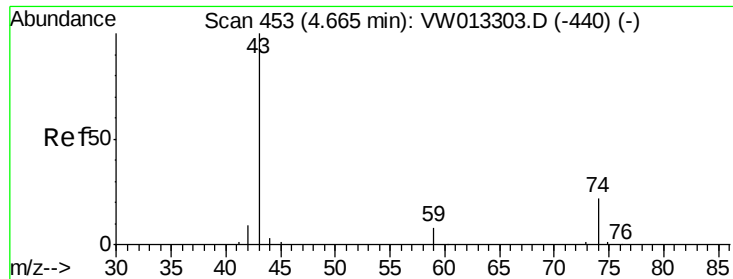
Tgt Ion: 76 Resp: 27730

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8





#15

Methyl Acetate

Concen: 2.500 ug/L m

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Tot Ion: 43 Resp: 6878

Ion Ratio Lower Upper

43 100

74 0.8 18.7 28.1#

Instrument :

MSVOA_W

ClientSampled :

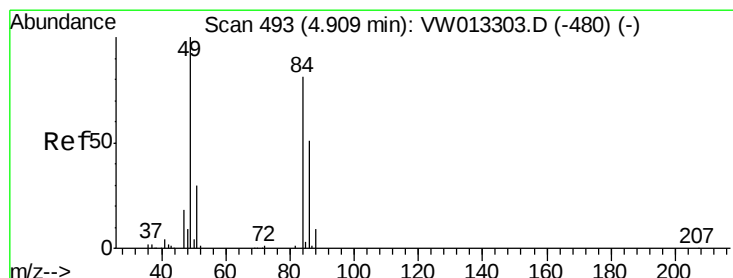
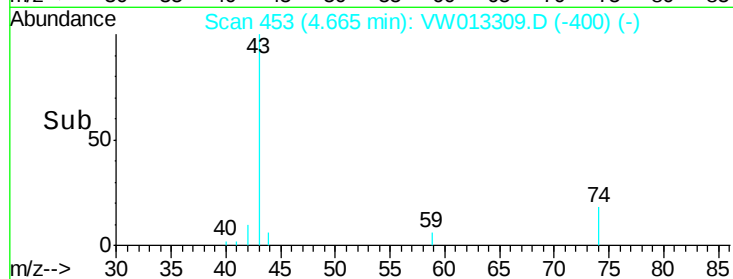
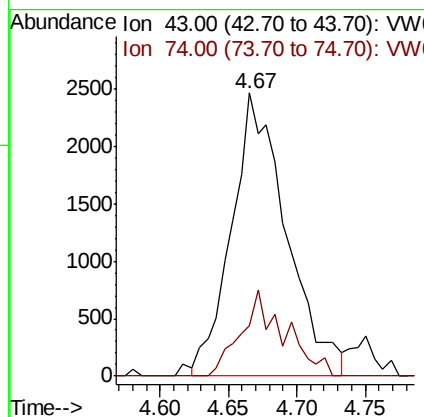
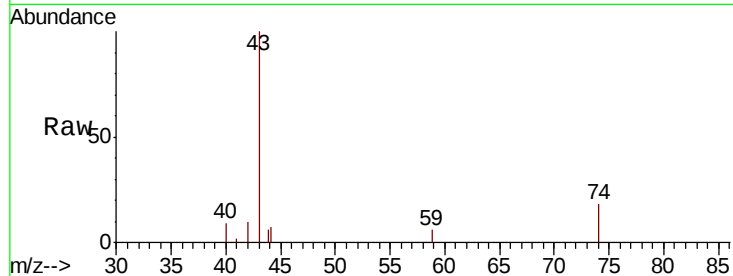
MDL05

Manual Integrations

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MMDadoda

10/9/2019 2:13:28 PM



#16

Methylene chloride

Concen: 4.538 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

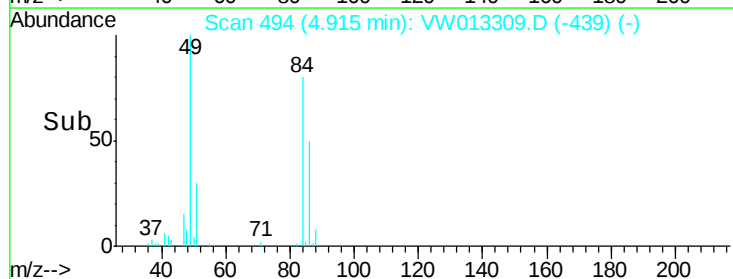
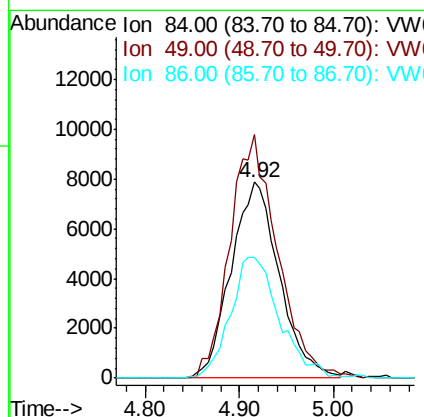
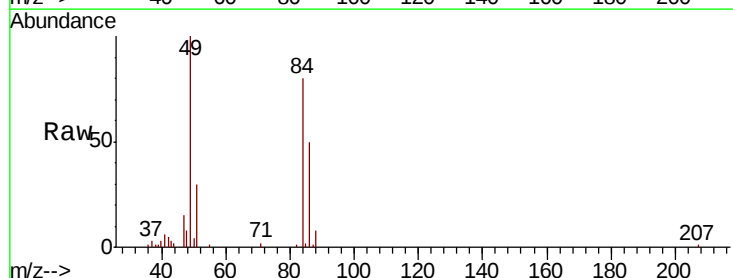
Tgt Ion: 84 Resp: 28176

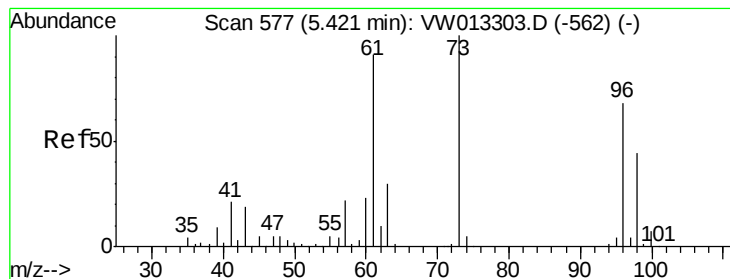
Ion Ratio Lower Upper

84 100

49 124.3 84.8 157.4

86 61.8 44.0 81.6





#17

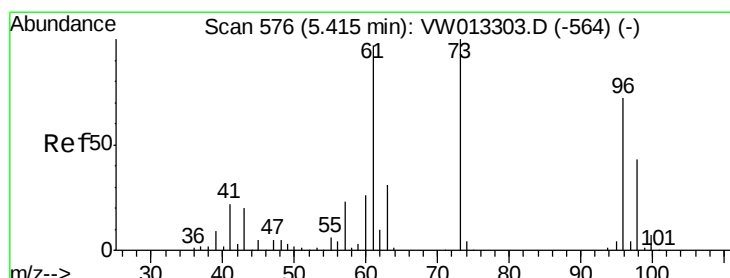
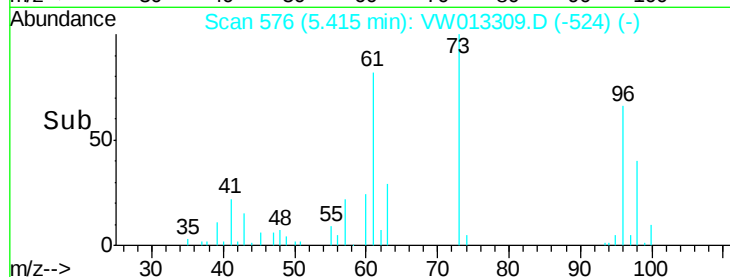
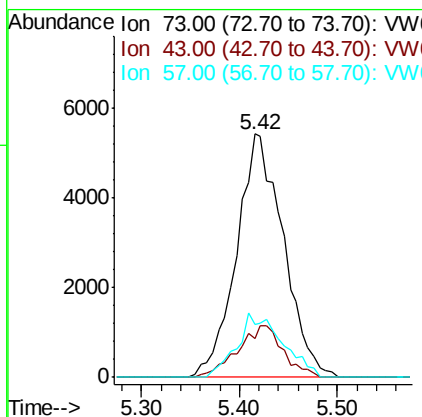
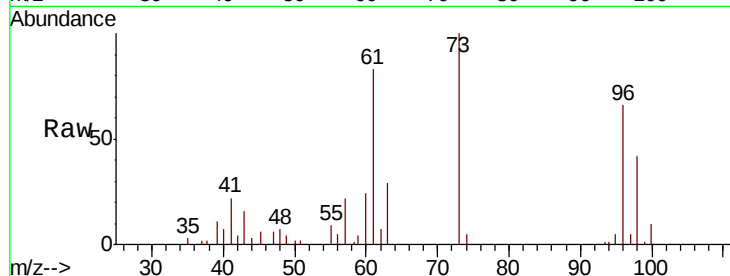
Methvl tert-butvl Ether
 Concen: 2.180 ug/L
 RT: 5.42 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
73	100		
43	20.5	15.3	22.9
57	11.0	18.2	27.4

Manual Integrations
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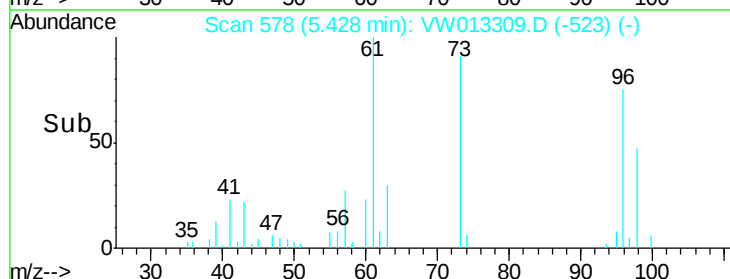
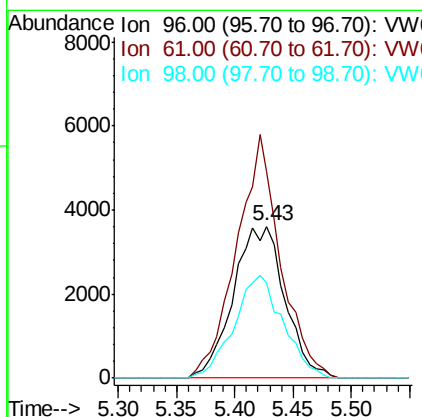
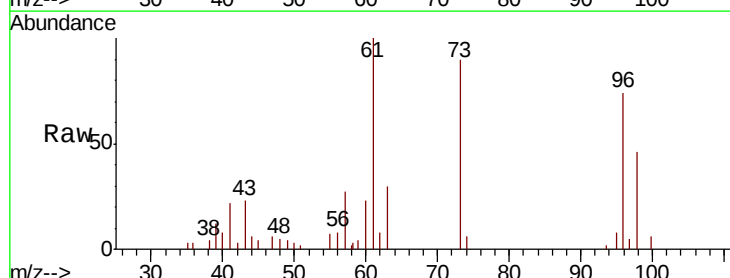
MMDadoda
 10/9/2019 2:13:28 PM

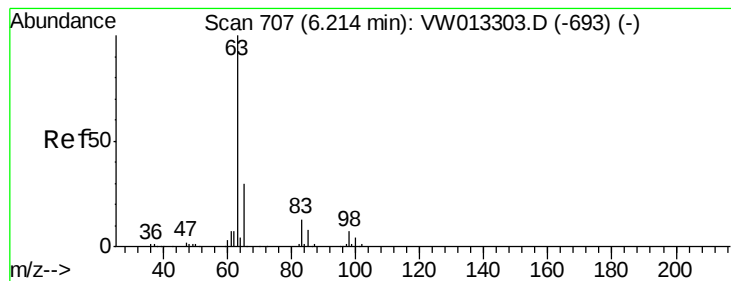


#18

trans-1,2-Dichloroethene
 Concen: 2.169 ug/L
 RT: 5.43 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.0	91.2	169.4
98	62.5	44.7	82.9





#19

1,1-Dichloroethane

Concen: 2.133 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

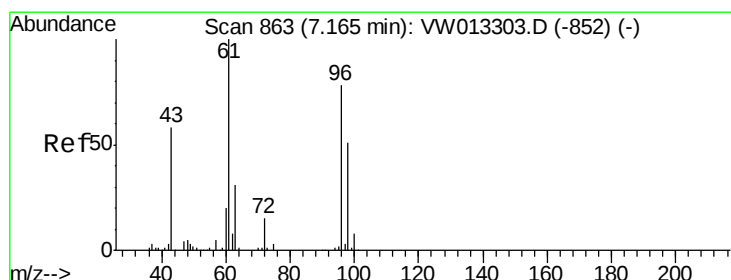
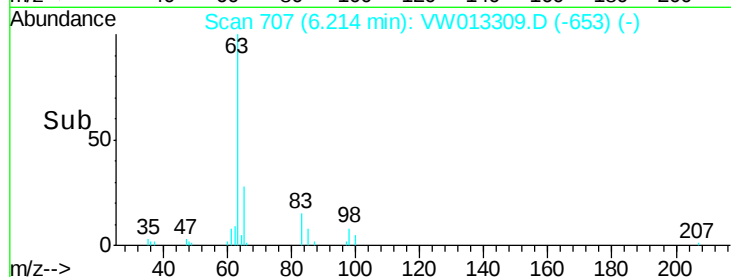
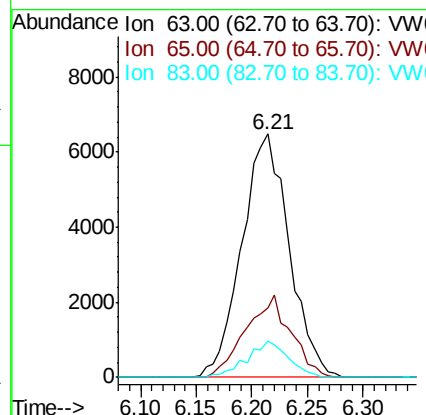
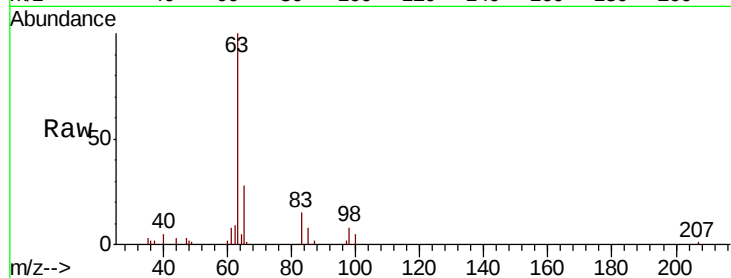
ClientSampleId :

MDL05

Tot Ion:	63	Resp:	19171
Ion Ratio	Lower	Upper	
63	100		
65	28.4	21.8	40.4
83	14.7	9.3	17.3

Manual Integrations
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#21

2-Butanone

Concen: 6.525 ug/L m

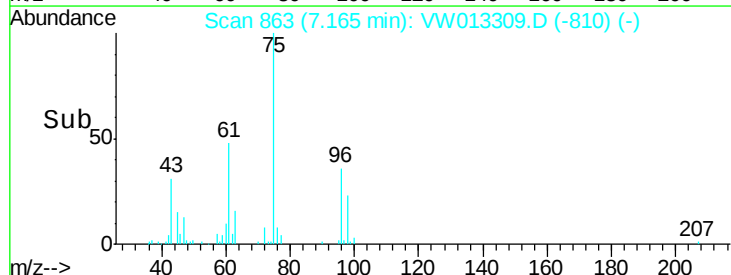
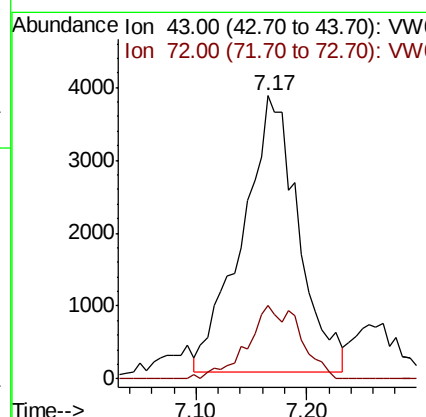
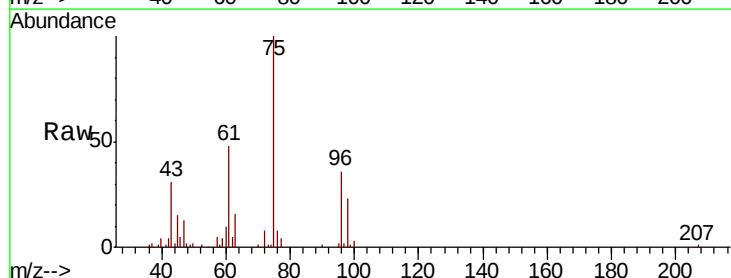
RT: 7.17 min Scan# 863

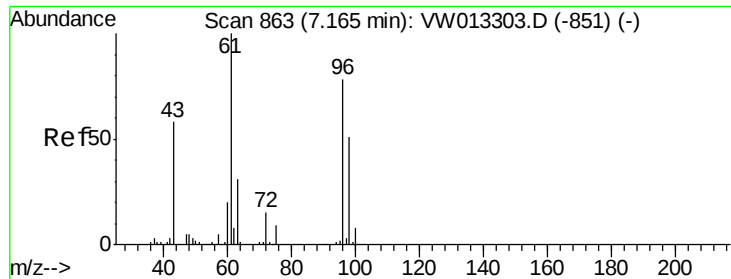
Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Tgt Ion:	43	Resp:	13398
Ion Ratio	Lower	Upper	
43	100		
72	15.9	13.2	39.6





#22

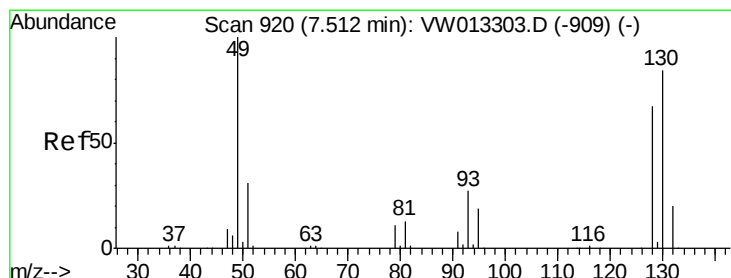
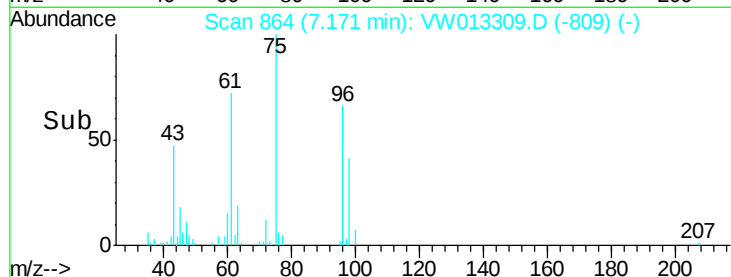
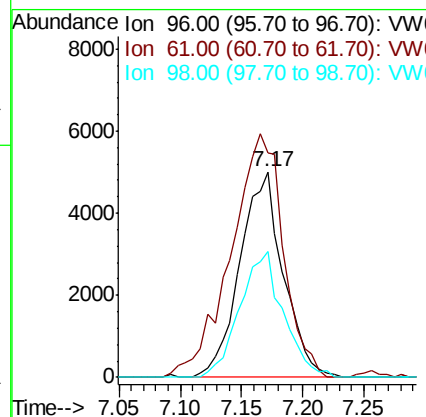
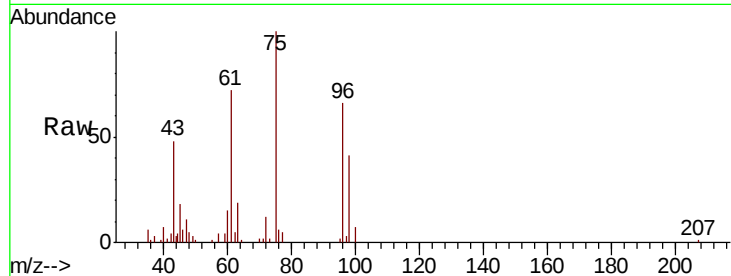
cis-1,2-Dichloroethene
 Concen: 2.206 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion:	96	Resp:	12311
Ion Ratio	Lower	Upper	
96	100		
61	109.3	86.0	159.6
98	61.3	43.5	80.9

Manual Integrations
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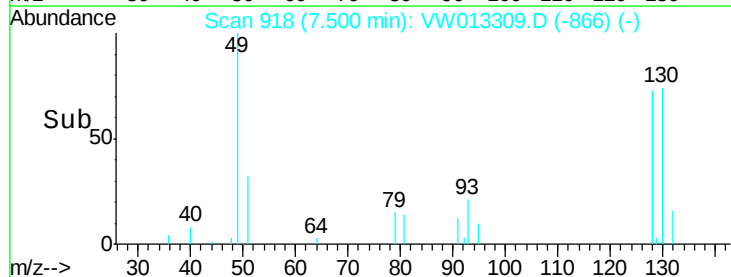
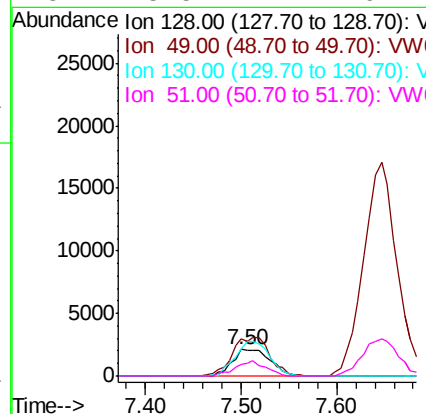
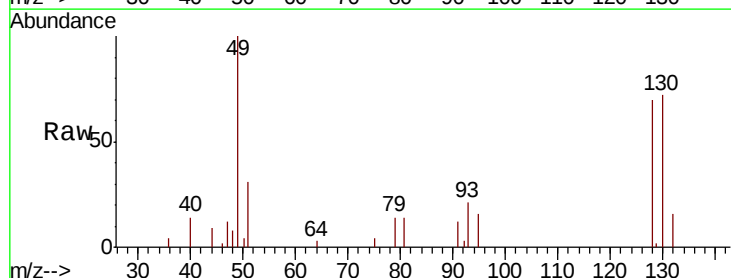
MMDadoda
 10/9/2019 2:13:28 PM

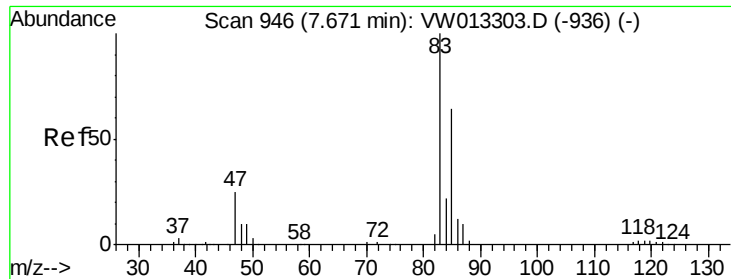


#23

Bromochloromethane
 Concen: 2.307 ug/L m
 RT: 7.50 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion:	128	Resp:	5795
Ion Ratio	Lower	Upper	
128	100		
49	142.5	114.6	212.8
130	102.4	92.6	172.0
51	43.5	42.7	64.1





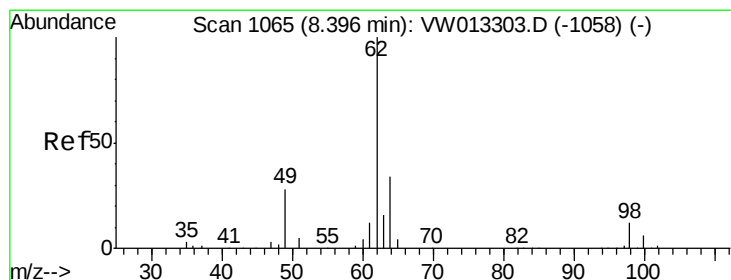
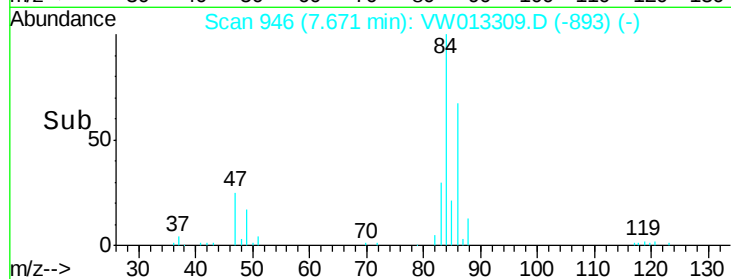
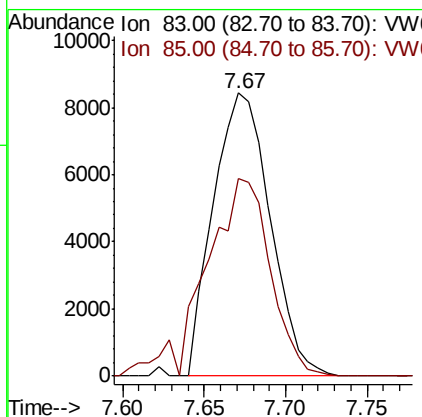
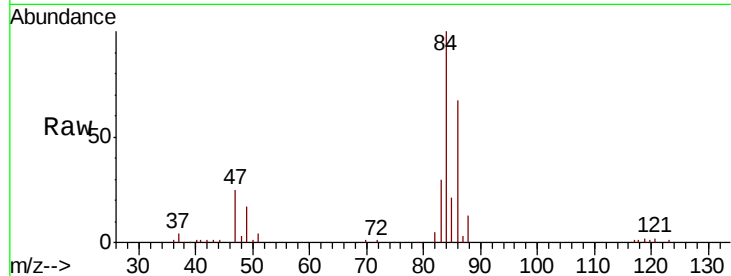
#25
Chloroform
Concen: 2.326 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Tot Ion	83	Resp	20536
Ion Ratio	100	Lower	Upper
85	74.4	45.9	85.3

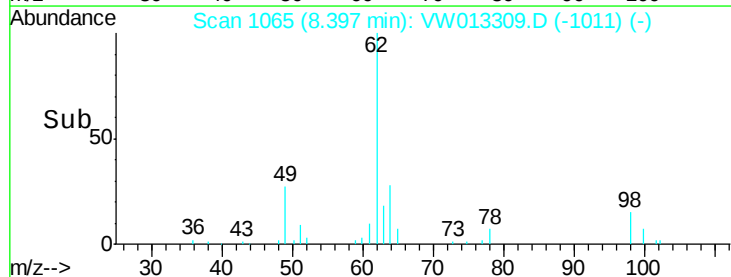
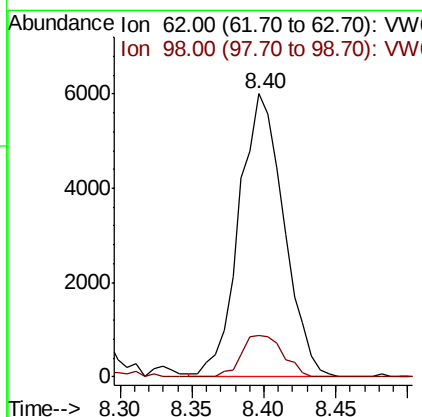
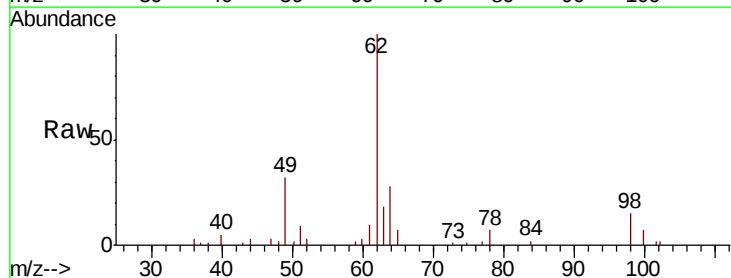
Manual Integrations
APPROVED

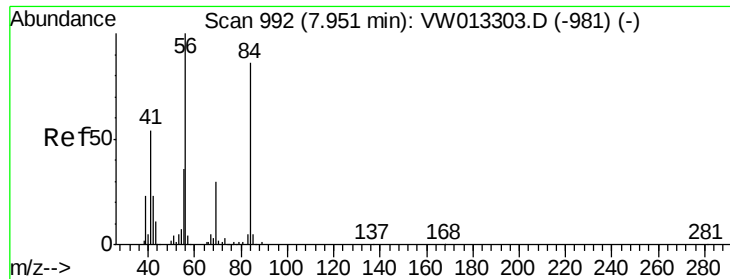
MMDadoda
10/9/2019 2:13:28 PM



#27
1,2-Dichloroethane
Concen: 2.245 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion	62	Resp	12982
Ion Ratio	100	Lower	Upper
98	14.5	9.0	13.6#





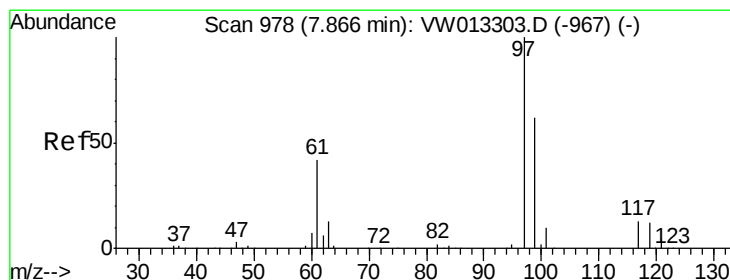
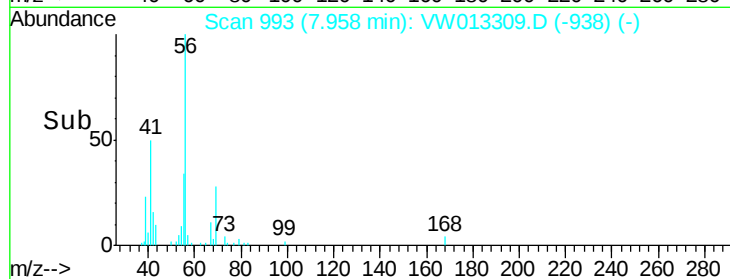
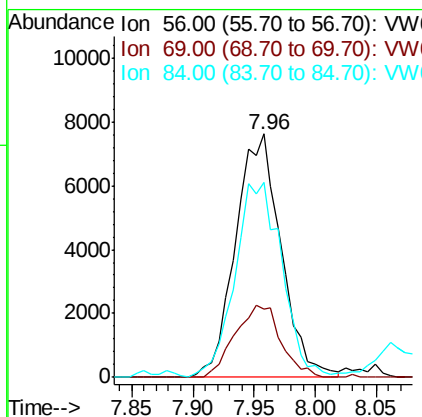
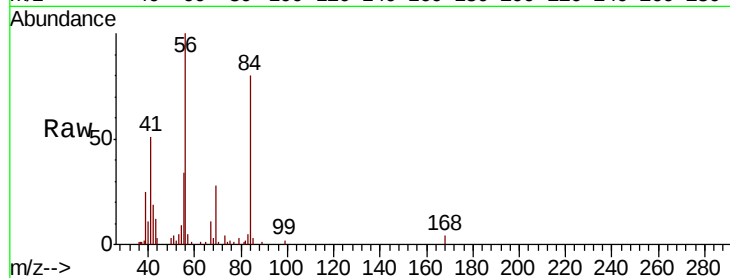
#30
Cyclohexane
Concen: 2.232 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.6	37.0
84	82.3	69.5	104.3

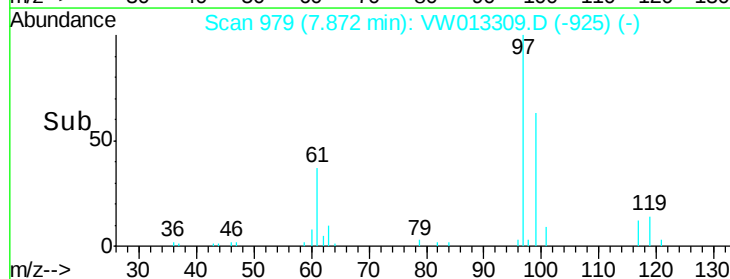
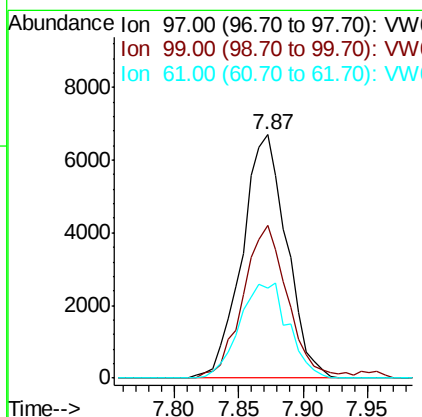
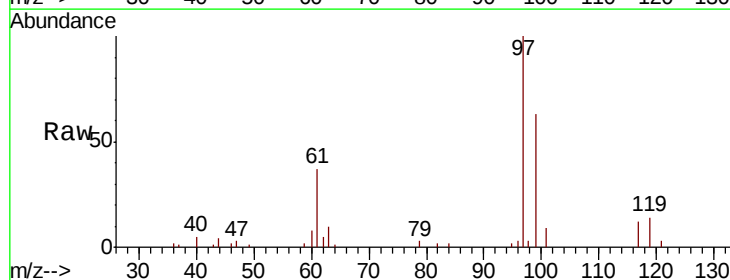
Manual Integrations
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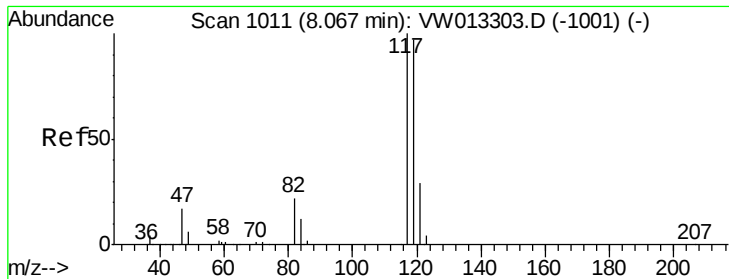
MMDadoda
10/9/2019 2:13:28 PM



#31
1,1,1-Trichloroethane
Concen: 2.277 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.4	50.6	75.8
61	42.6	34.2	51.2





#32

Carbon tetrachloride

Concen: 2.198 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion:117 Resp: 14804

Ion Ratio Lower Upper

117 100

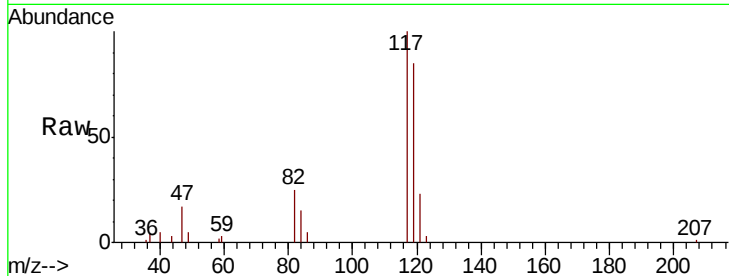
119 92.9 76.7 115.1

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

8.07

6000

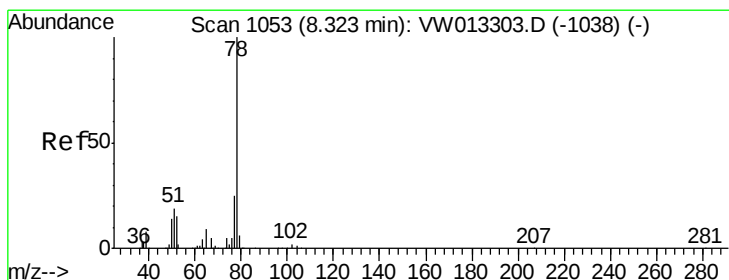
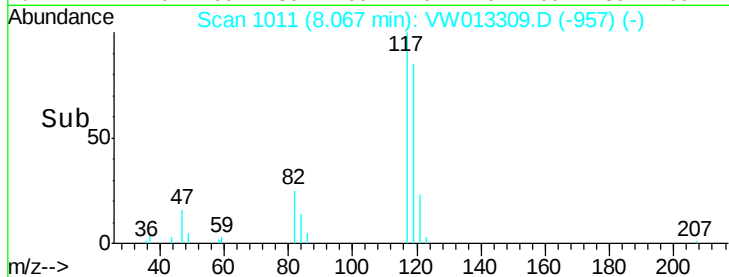
4000

2000

0

8.00 8.05 8.10 8.15

Time-->



#34

Benzene

Concen: 2.220 ug/L m

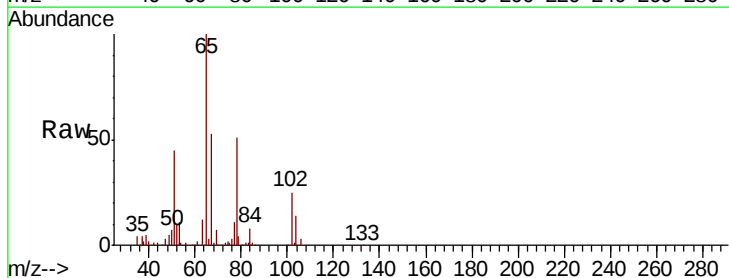
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Tgt Ion: 78 Resp: 45799



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

20000

15000

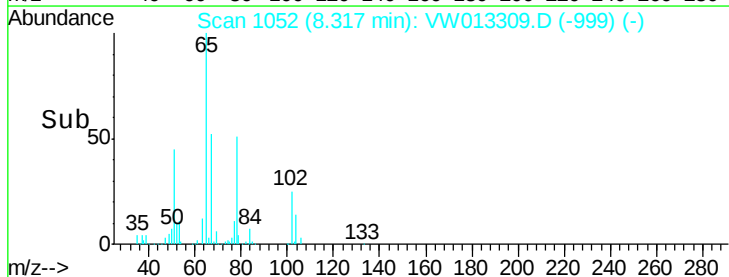
10000

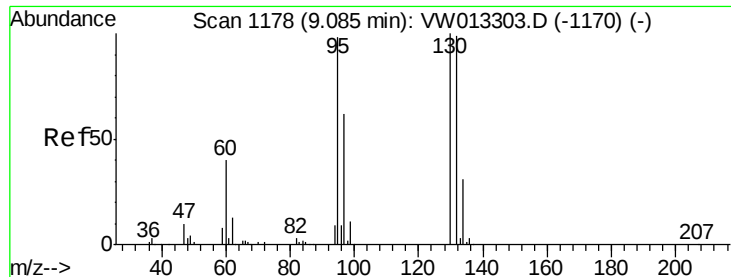
5000

0

8.25 8.30 8.35 8.40

Time-->





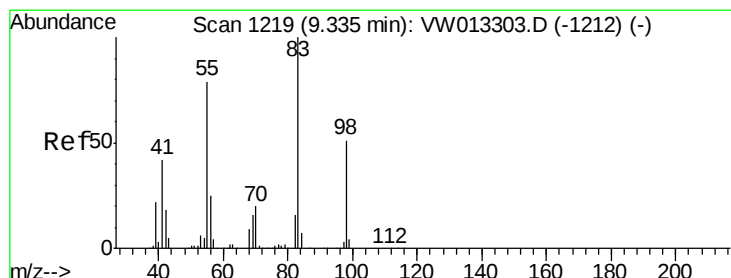
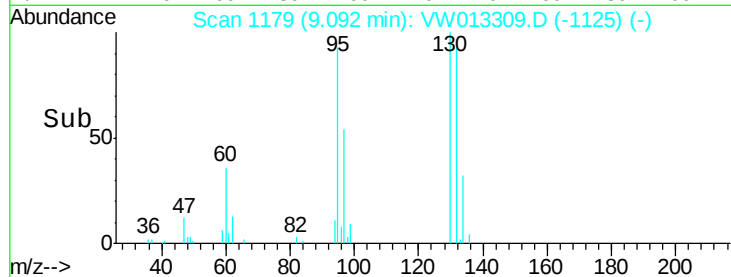
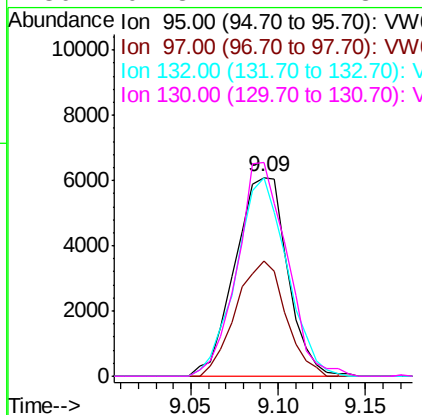
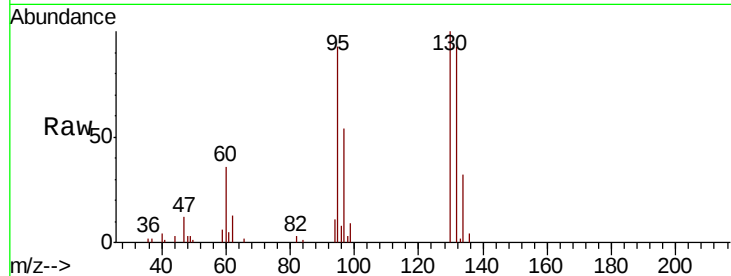
#35
 Trichloroethene
 Concen: 2.350 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

Tot Ion	95	Resp	12734
Ion	Ratio	Lower	Upper
95	100		
97	55.0	44.3	82.3
132	96.6	71.7	133.3
130	101.3	74.1	137.7

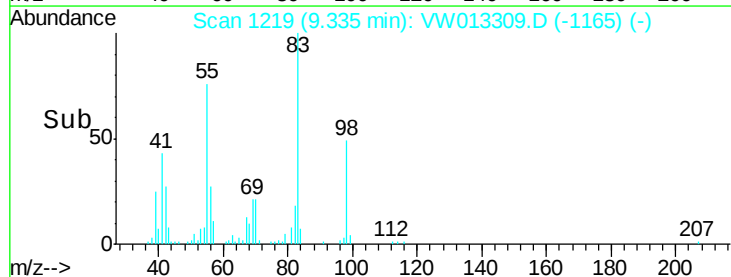
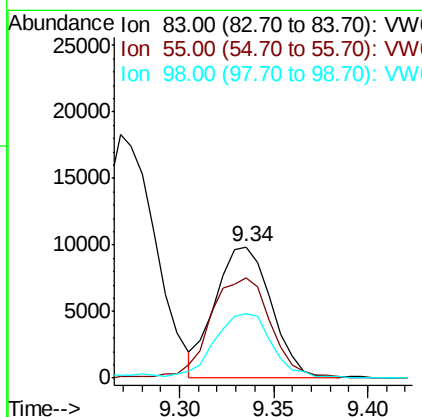
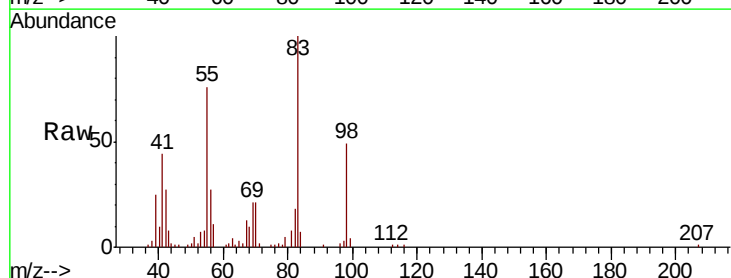
Manual Integrations
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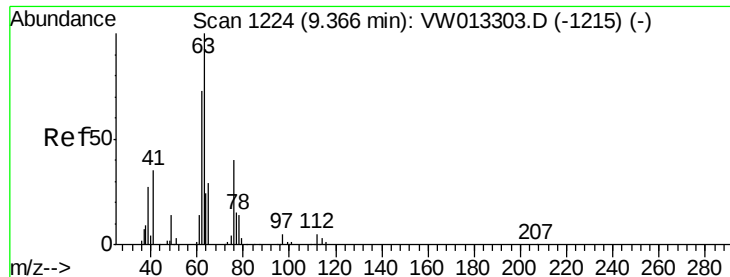
MMDadoda
 10/9/2019 2:13:28 PM



#36
 Methylcyclohexane
 Concen: 2.114 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion	83	Resp	20405
Ion	Ratio	Lower	Upper
83	100		
55	81.8	61.8	92.6
98	50.2	39.6	59.4





#40

1,2-Dichloropropane

Concen: 2.210 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tot Ion: 63 Resp: 11218

Ion Ratio Lower Upper

63 100

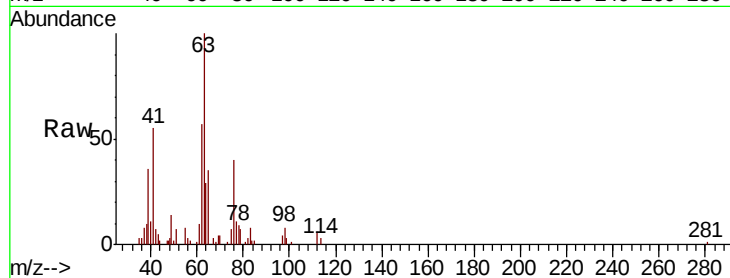
112 7.7 4.1 6.1#

Manual Integrations

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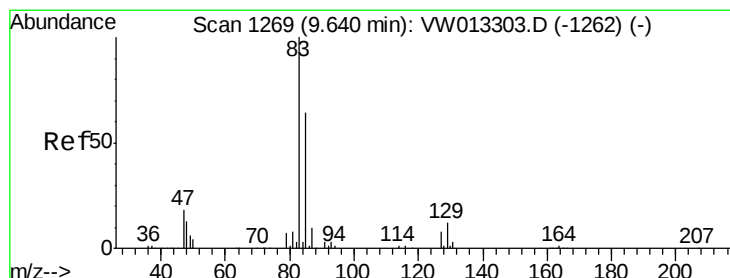
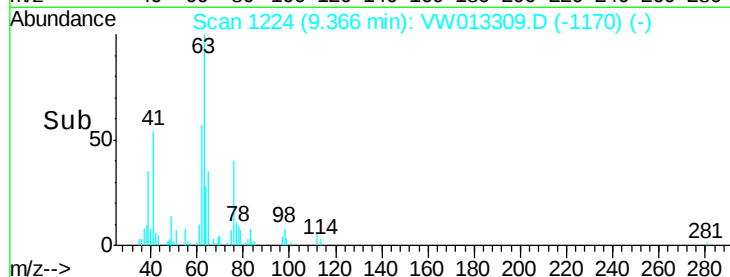
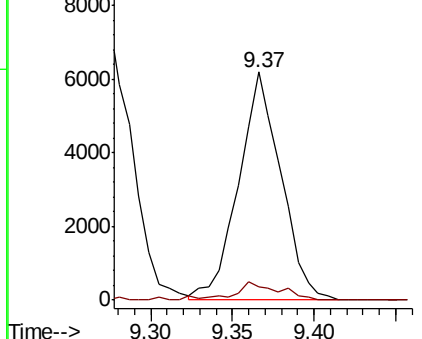
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 2.077 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

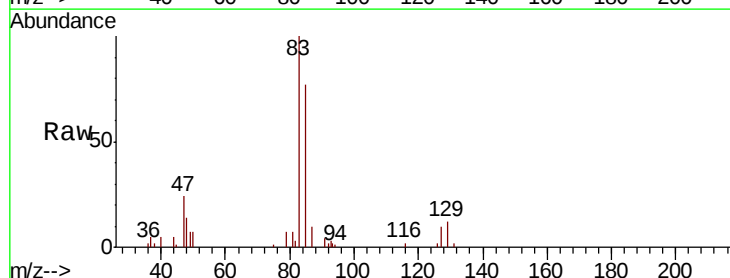
Tgt Ion: 83 Resp: 12934

Ion Ratio Lower Upper

83 100

85 77.4 43.8 81.4

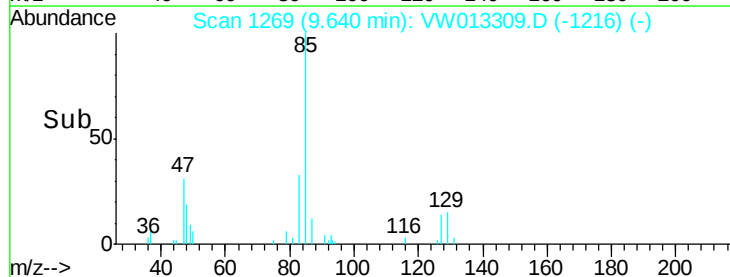
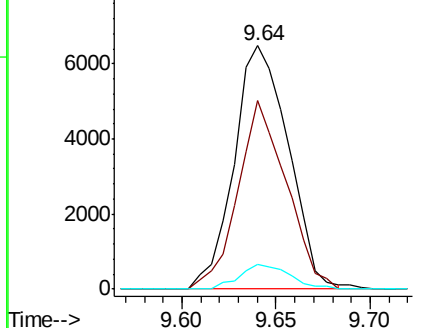
127 10.3 7.0 10.6

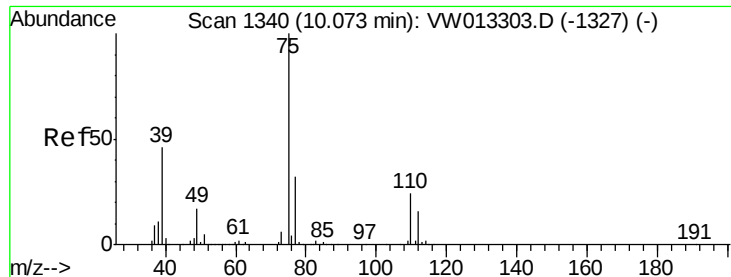


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





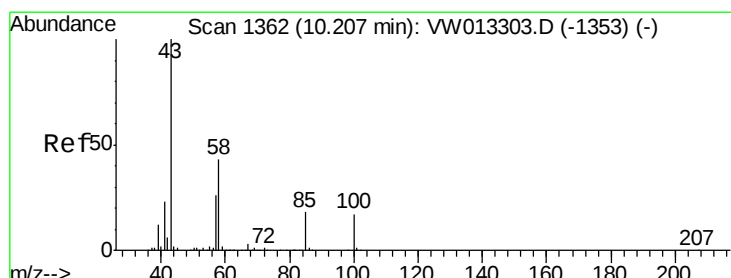
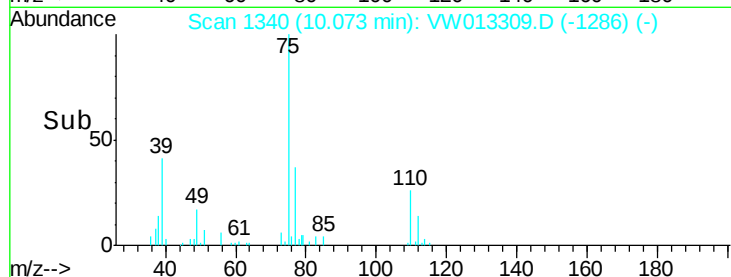
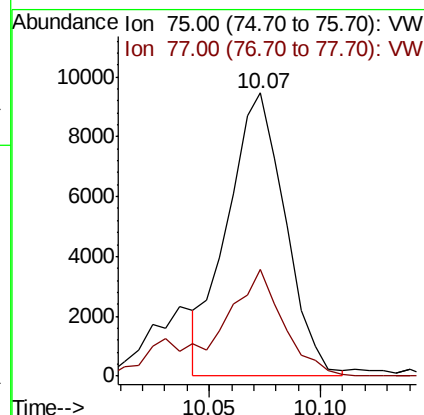
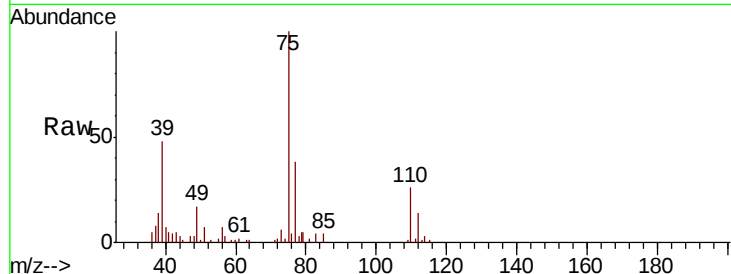
#42
 cis-1,3-Dichloropropene
 Concen: 2.108 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 17087
 Ion Ratio Lower Upper
 75 100
 77 37.8 21.3 39.5

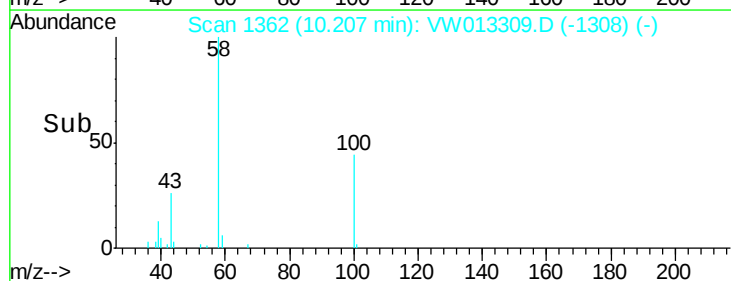
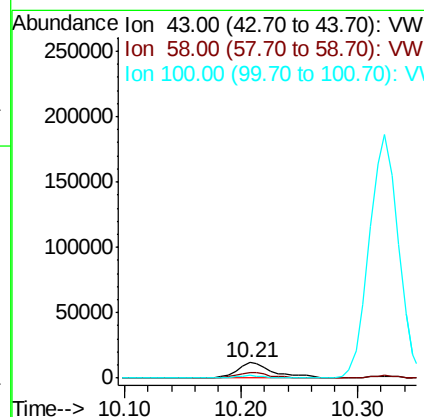
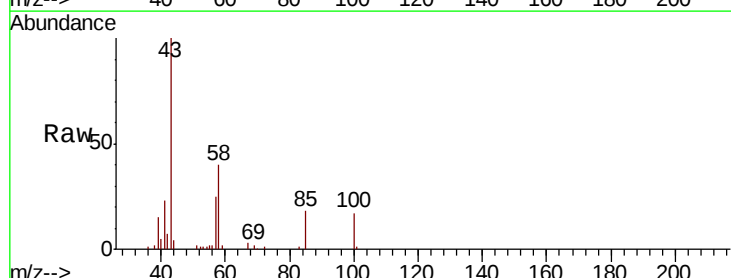
Manual Integrations
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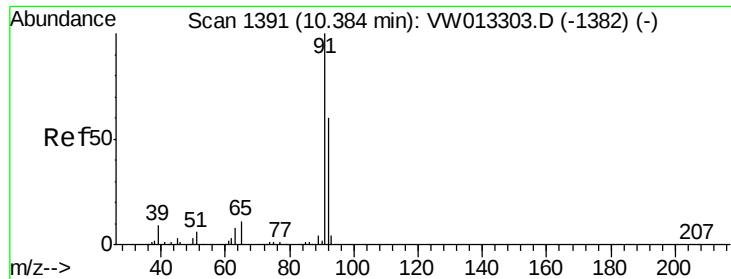
MMDadoda
 10/9/2019 2:13:28 PM



#43
 4-Methyl-2-pentanone
 Concen: 6.522 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion: 43 Resp: 25340
 Ion Ratio Lower Upper
 43 100
 58 34.5 32.7 49.1
 100 13.3 12.9 19.3





#44

Toluene

Concen: 2.241 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

ClientSampled :

MDL05

Tot Ion: 91 Resp: 50338

Ion Ratio Lower Upper

91 100

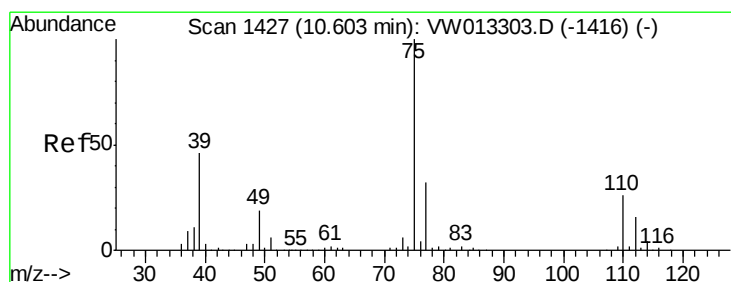
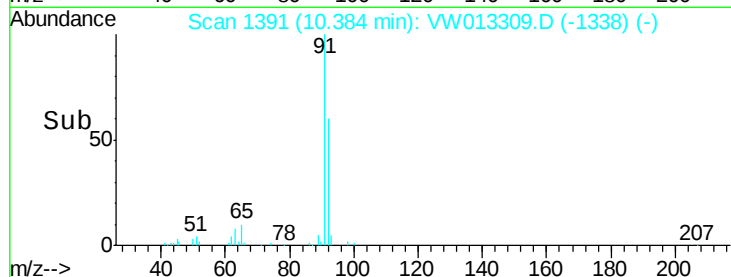
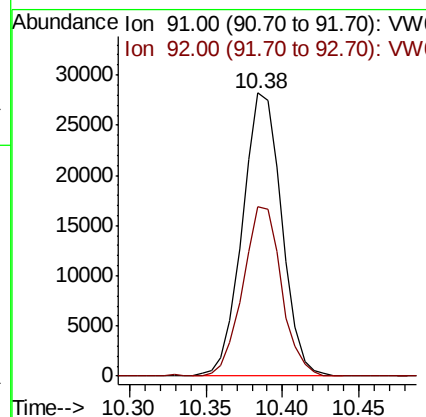
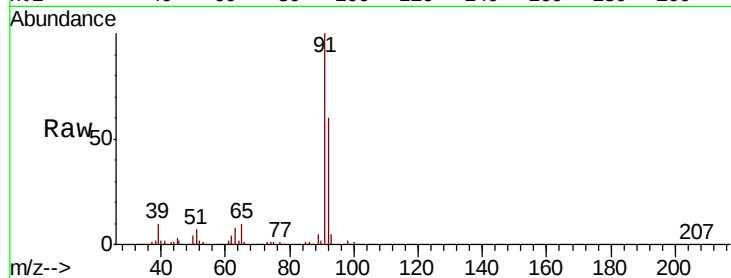
92 60.1 41.5 77.1

Manual Integrations

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MMDadoda

10/9/2019 2:13:28 PM



#45

trans-1,3-Dichloropropene

Concen: 2.424 ug/L m

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW013309.D

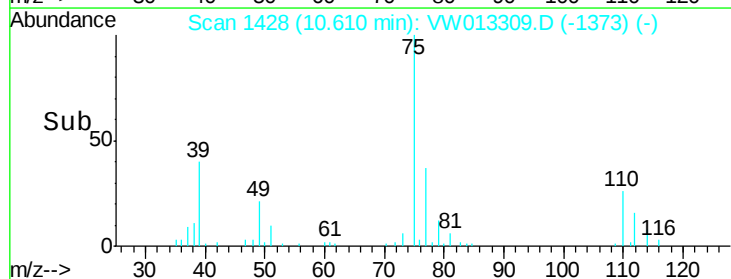
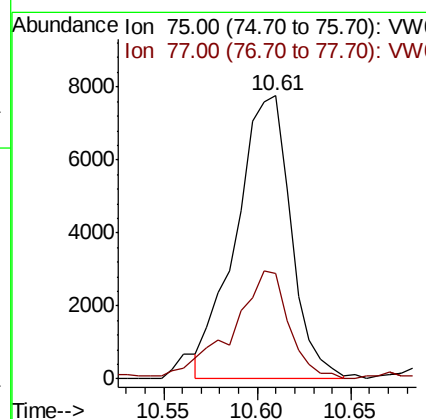
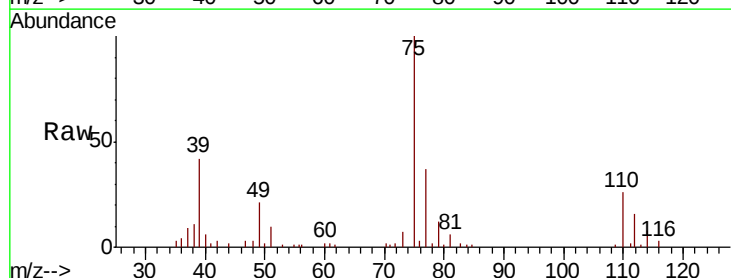
Acq: 26 Sep 2019 17:26

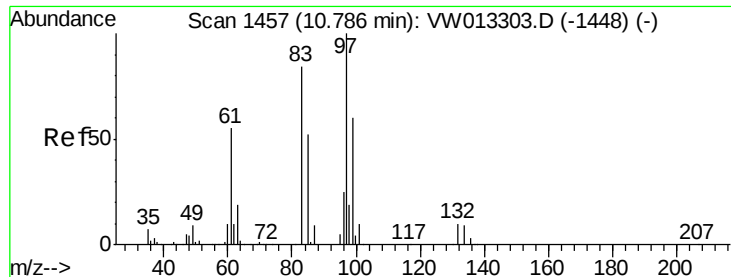
Tgt Ion: 75 Resp: 15793

Ion Ratio Lower Upper

75 100

77 37.1 20.5 38.1





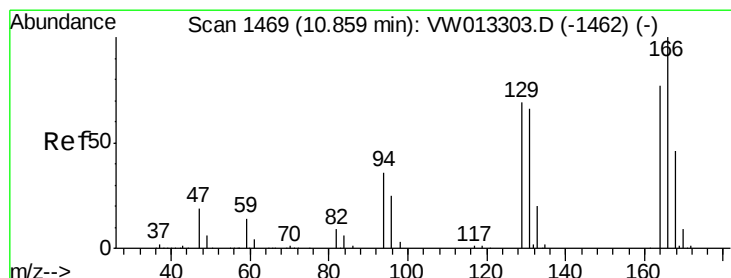
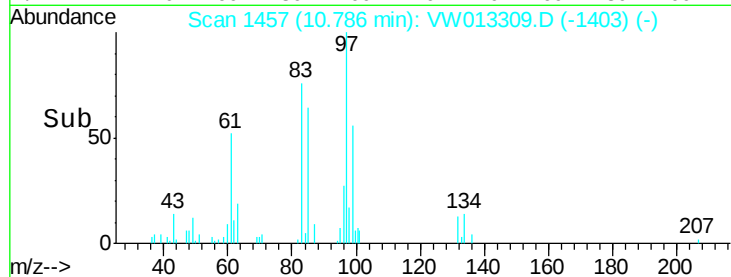
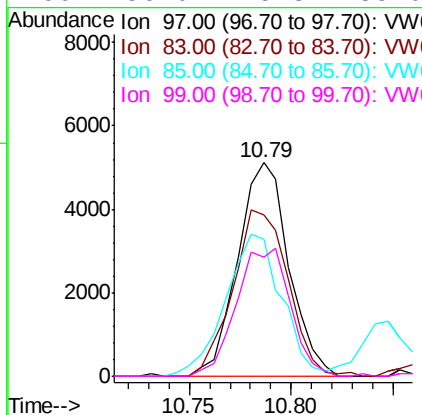
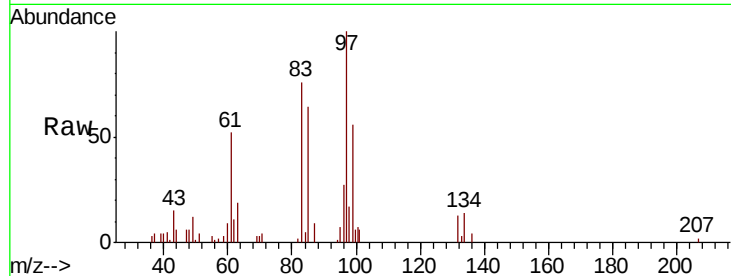
#46
1,1,2-Trichloroethane
Concen: 2.238 ug/L
RT: 10.79 min Scan# 1457
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion:	97	Resp:	8901
Ion	Ratio	Lower	Upper
97	100		
83	75.6	59.4	110.2
85	63.9	38.7	71.9
99	56.0	45.8	85.0

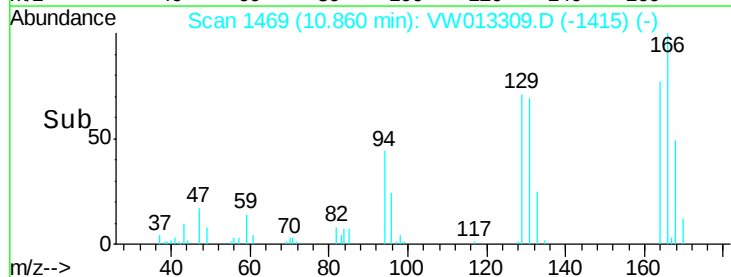
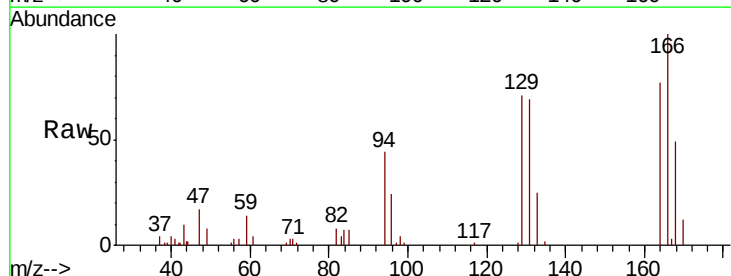
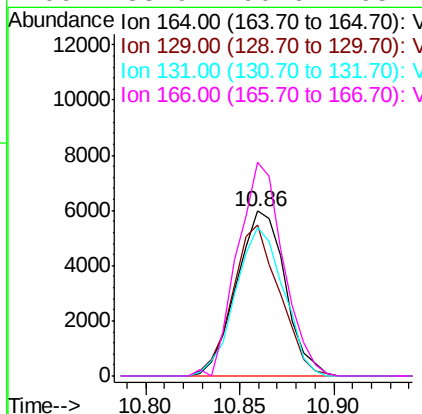
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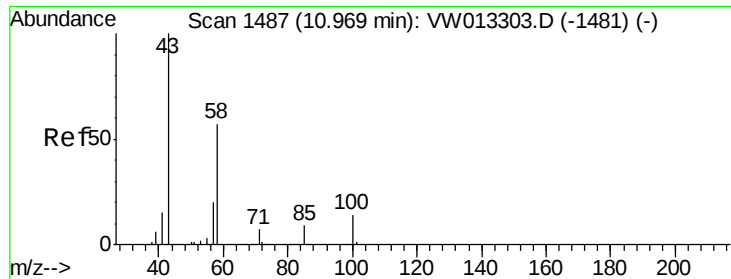
MMDadoda
10/9/2019 2:13:28 PM



#47
Tetrachloroethene
Concen: 2.198 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion:	164	Resp:	10719
Ion	Ratio	Lower	Upper
164	100		
129	91.9	60.5	112.5
131	89.8	60.6	112.6
166	133.9	90.6	168.2





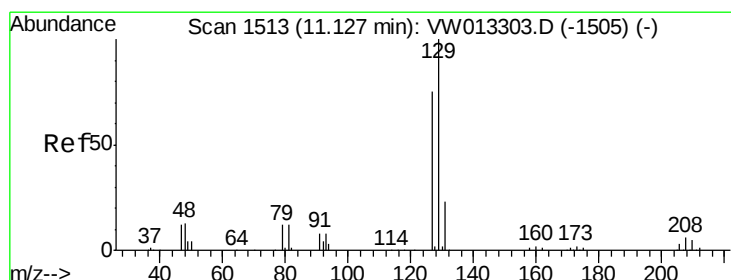
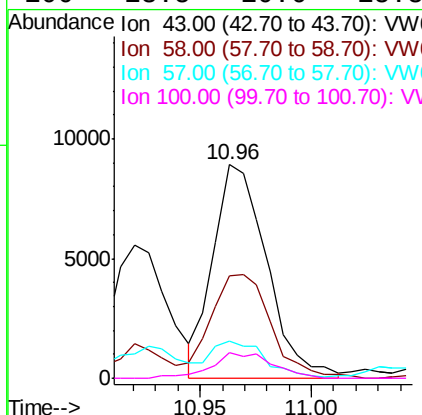
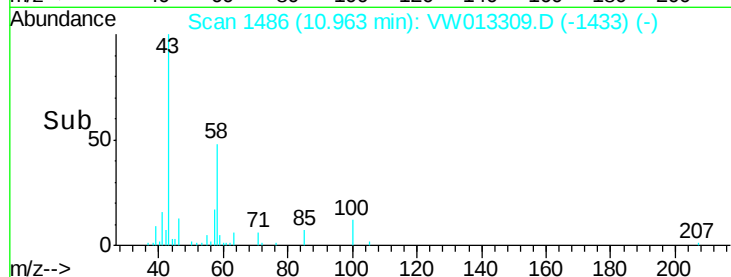
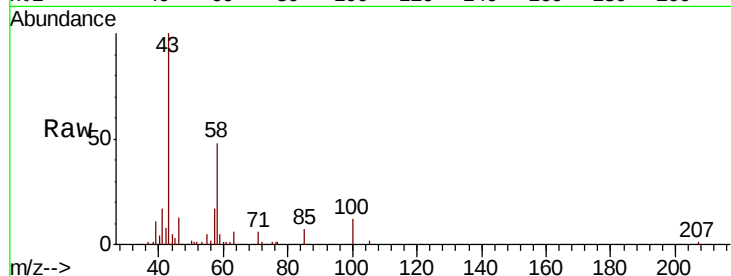
#49
2-Hexanone
Concen: 5.366 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.9	44.3	66.5
57	18.3	15.3	22.9
100	13.5	10.6	15.8

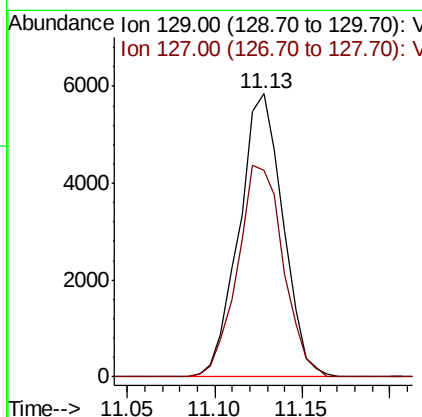
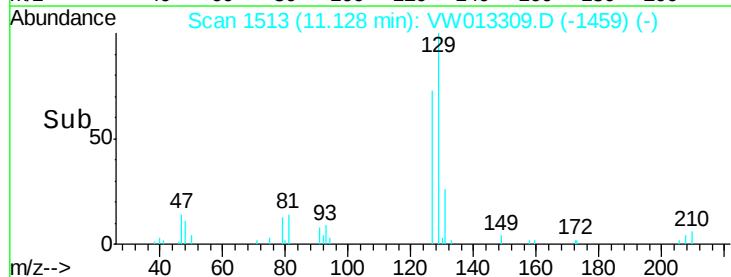
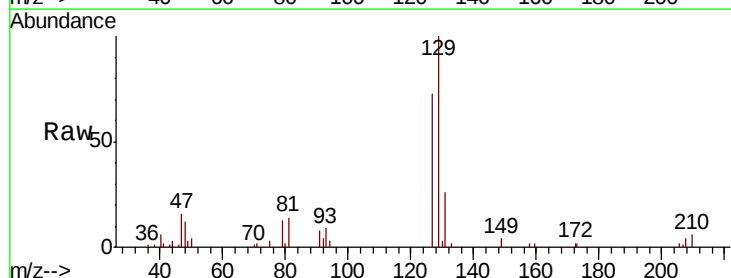
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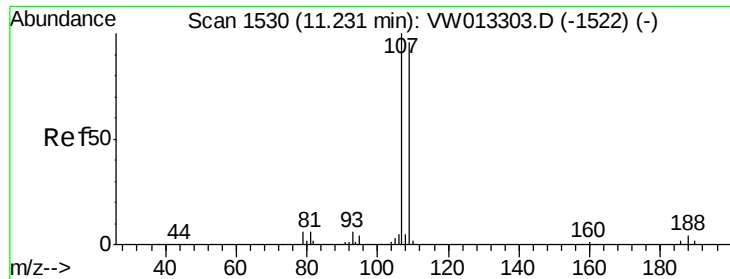
MMDadoda
10/9/2019 2:13:28 PM



#50
Dibromochloromethane
Concen: 2.231 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.0	56.1	104.1





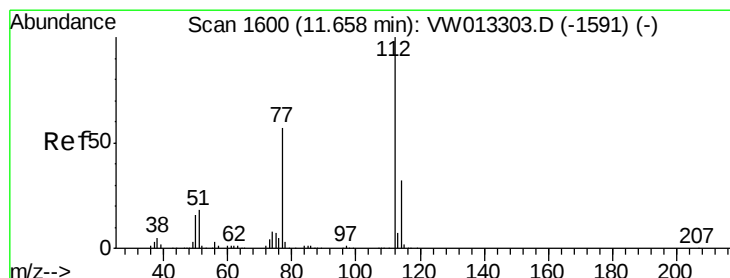
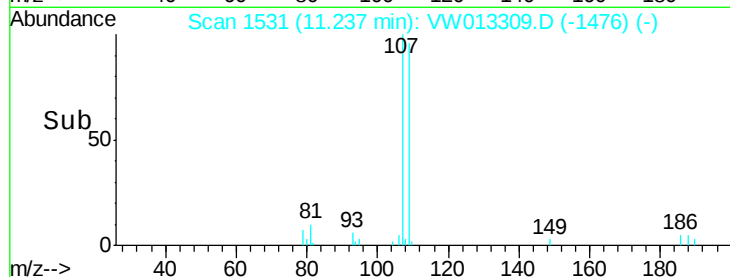
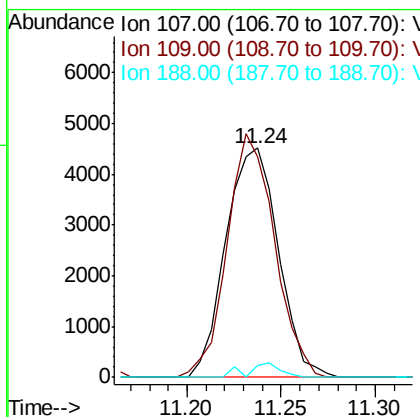
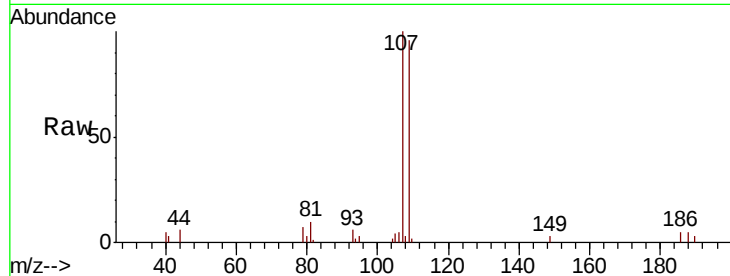
#51
 1,2-Dibromoethane
 Concen: 2.237 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Resp	Lower	Upper
107	100	8739		
109	96.2		65.5	121.6
188	5.3		3.0	4.6#

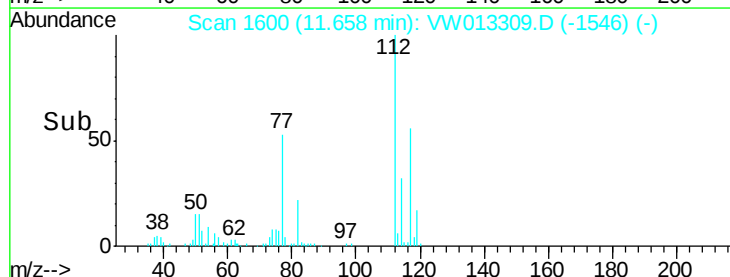
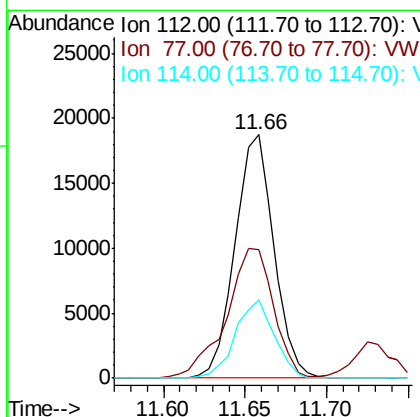
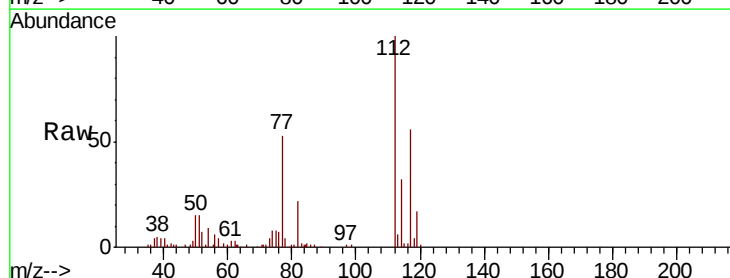
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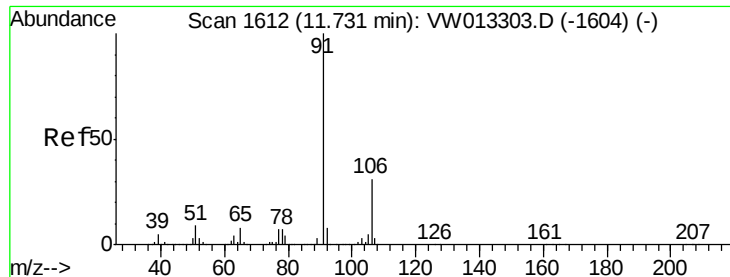
MMDadoda
 10/9/2019 2:13:28 PM



#52
 Chlorobenzene
 Concen: 2.205 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	31202		
77	52.6		46.5	69.7
114	32.4		23.0	42.8





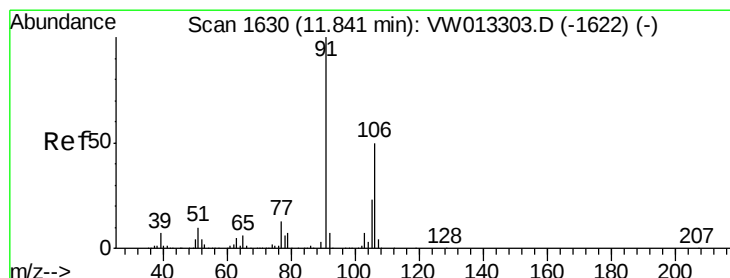
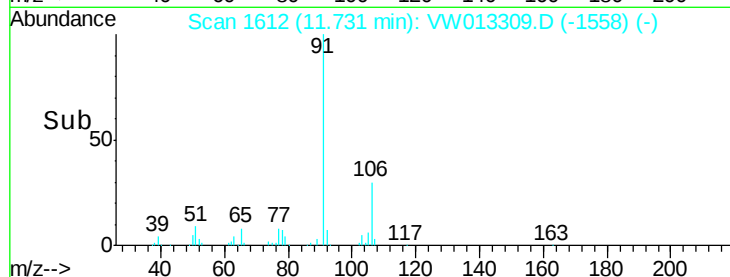
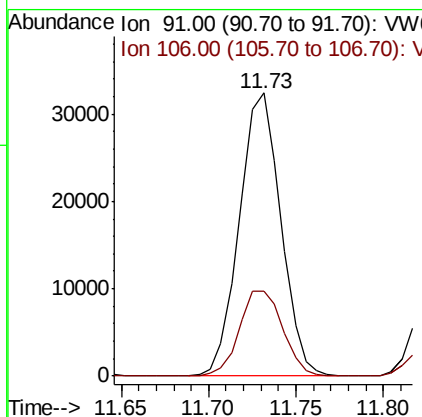
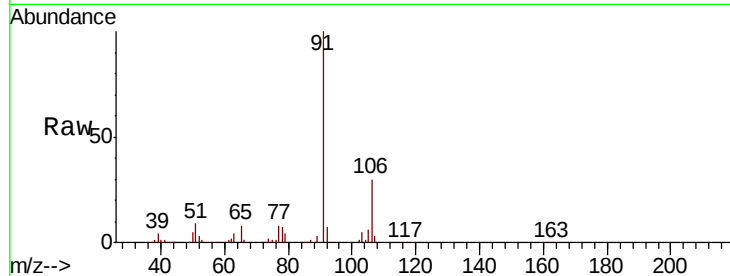
#53
Ethylbenzene
Concen: 2.149 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		53500		
106	29.9	20.8	38.6		

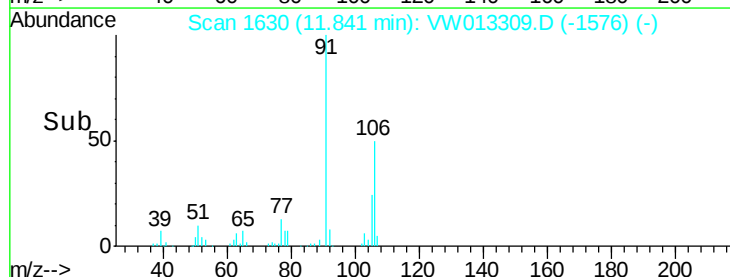
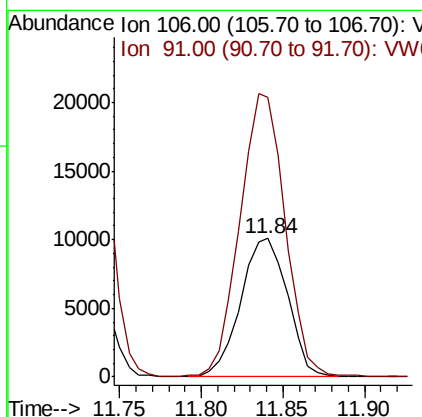
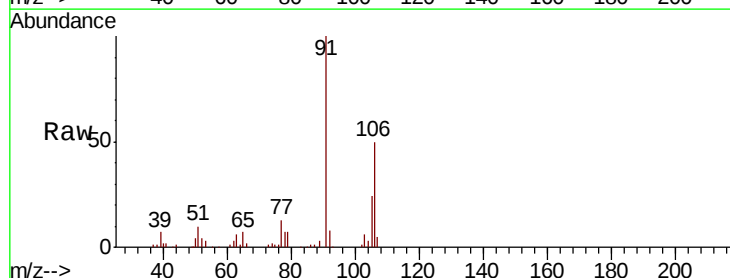
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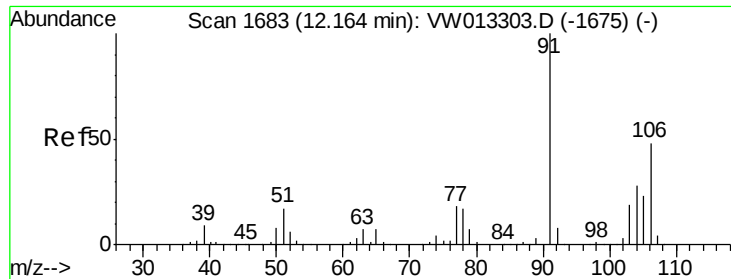
MMDadoda
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#54
m,p-Xylene
Concen: 2.116 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		20225		
91	201.6	138.3	256.9		





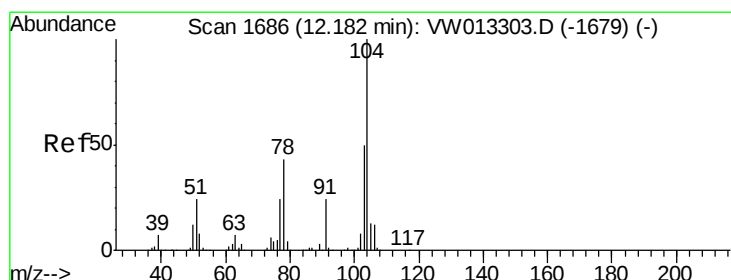
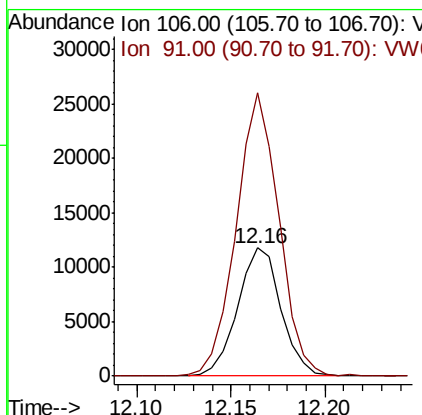
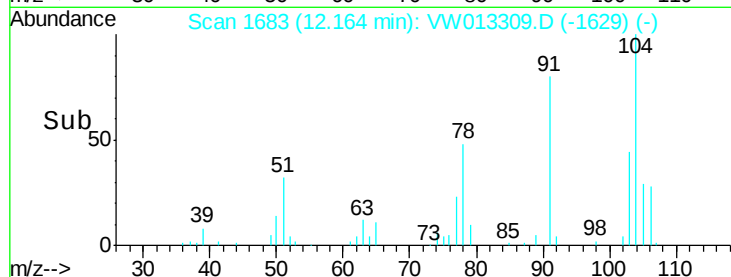
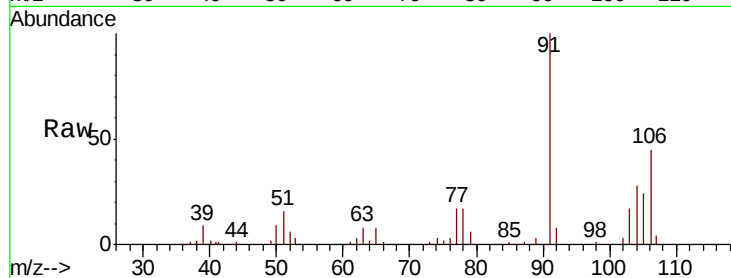
#55
o-xylene
Concen: 2.082 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Instrument :
MSVOA_W
ClientSampled :
MDL05

Tot Ion:106 Resp: 18777
Ion Ratio Lower Upper
106 100
91 221.0 145.9 271.1

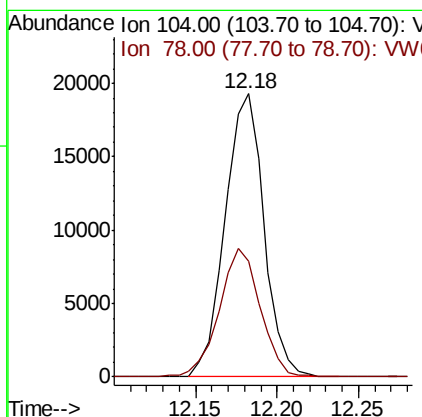
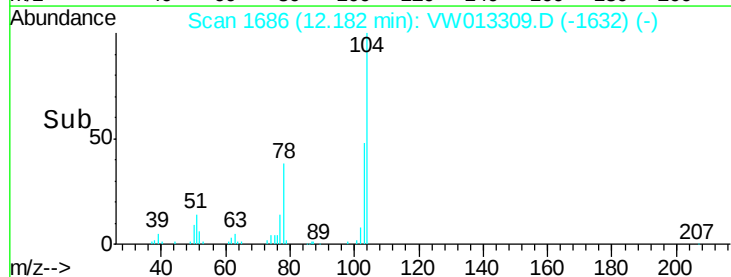
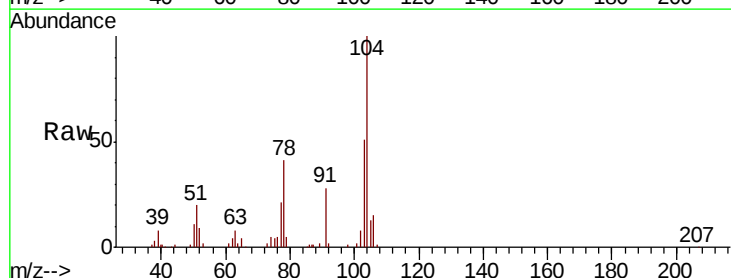
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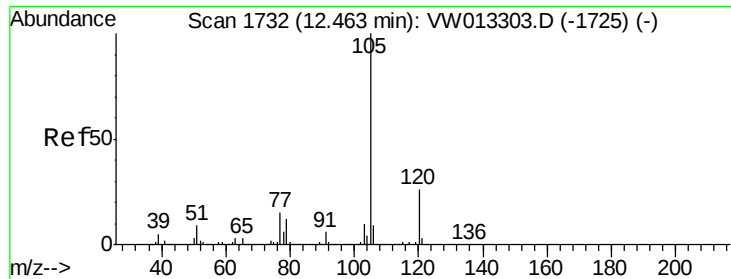
MMDadoda
10/9/2019 2:13:28 PM



#56
Styrene
Concen: 2.069 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013309.D
Acq: 26 Sep 2019 17:26

Tgt Ion:104 Resp: 31999
Ion Ratio Lower Upper
104 100
78 40.9 29.8 55.4





#57

Isopropylbenzene

Concen: 2.127 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

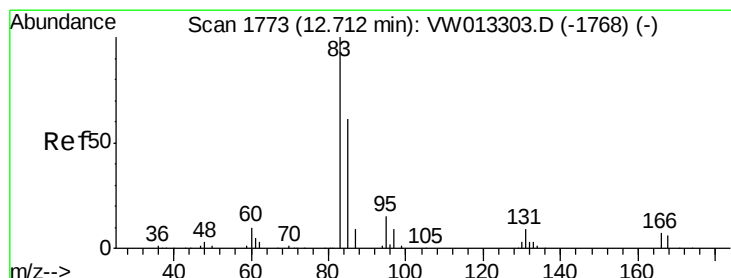
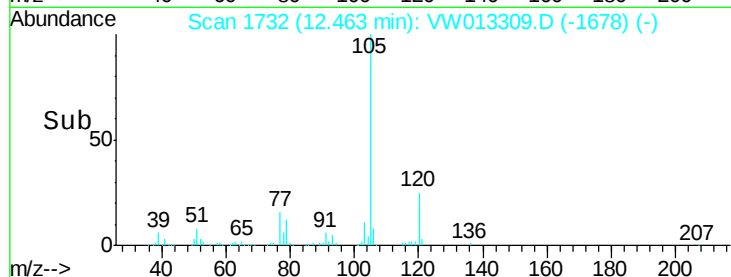
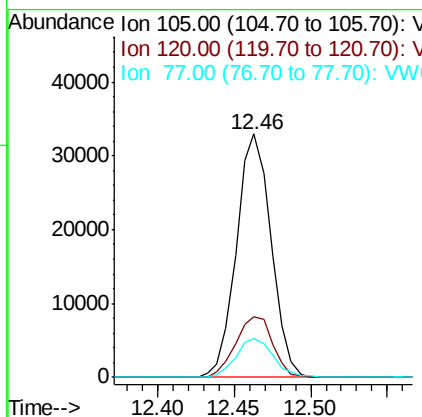
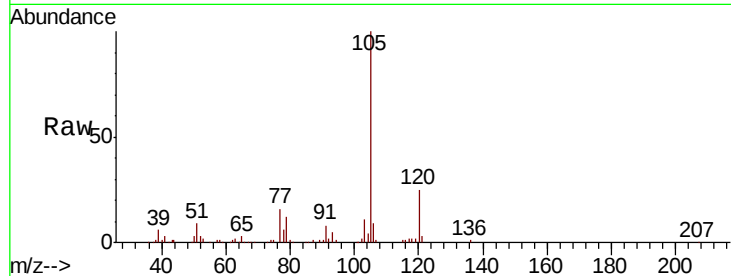
ClientSampleId :

MDL05

Tot Ion:	105	Resp:	51892
Ion Ratio	Lower	Upper	
105	100		
120	26.5	21.4	32.2
77	17.1	11.8	17.6

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.471 ug/L

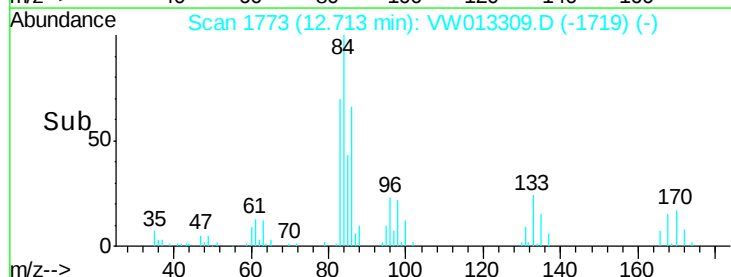
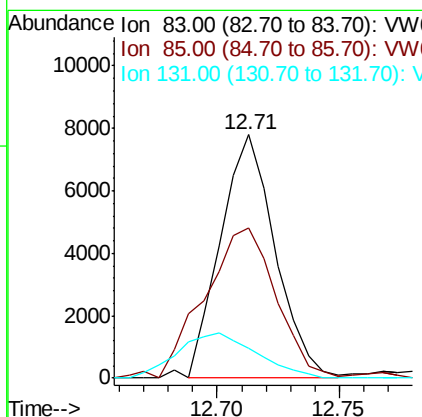
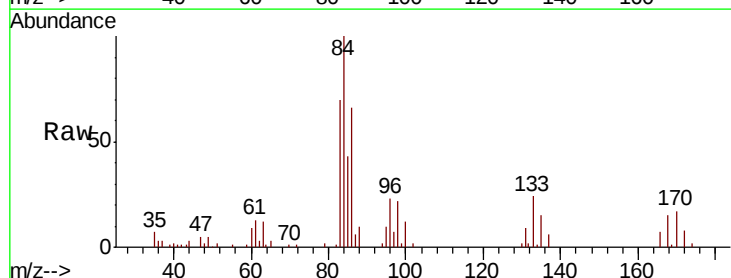
RT: 12.71 min Scan# 1773

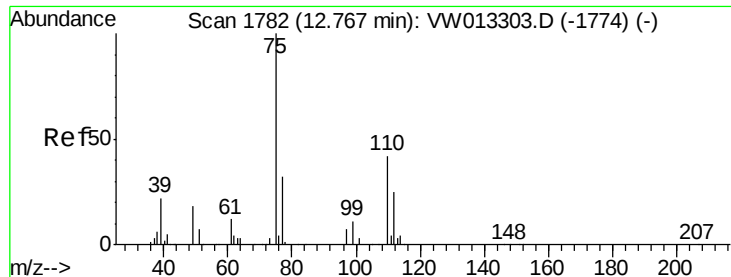
Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Tgt Ion:	83	Resp:	12103
Ion Ratio	Lower	Upper	
83	100		
85	61.5	45.2	84.0
131	14.8	8.9	13.3#





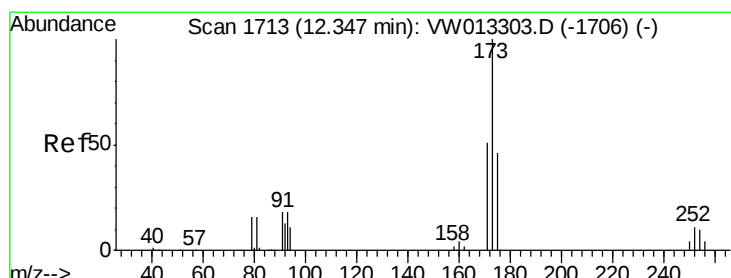
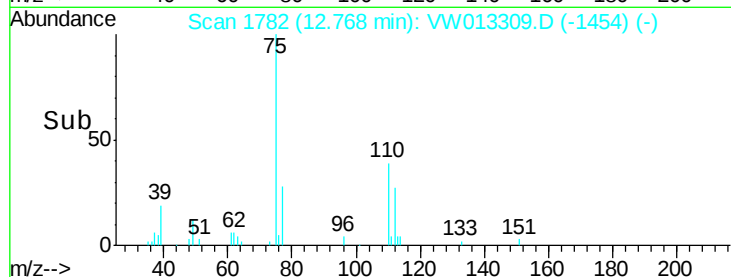
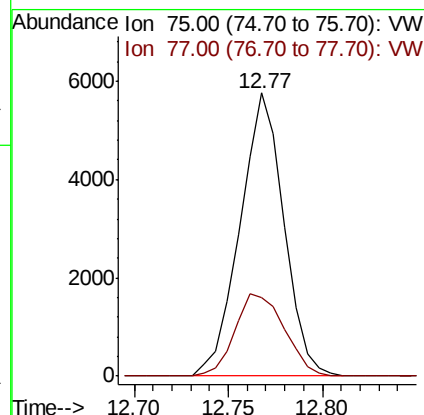
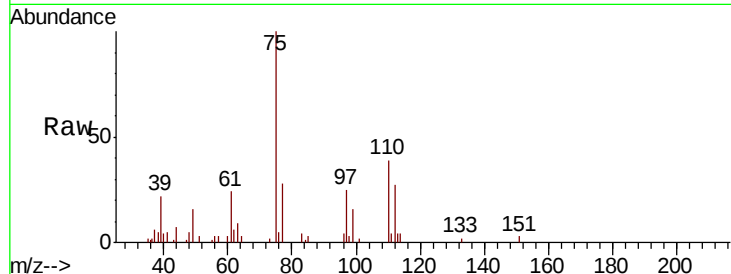
#59
 1,2,3-Trichloropropane
 Concen: 2.541 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 9288
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.8 38.8

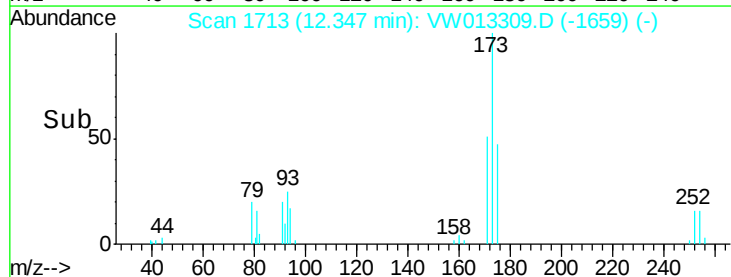
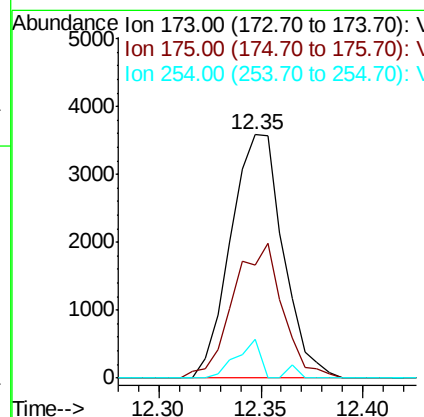
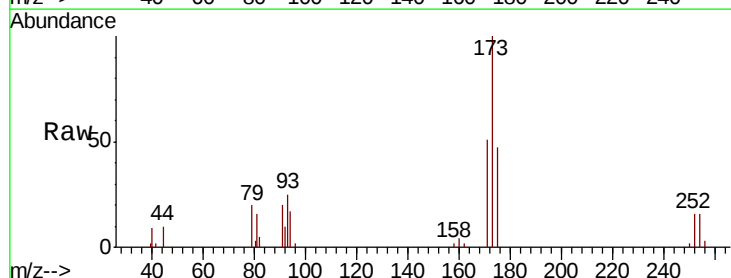
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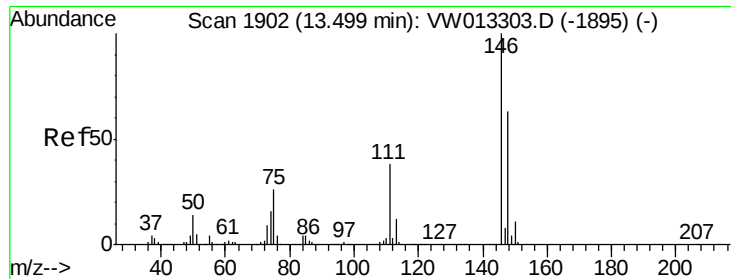
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#62
 Bromoform
 Concen: 2.229 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion: 173 Resp: 6381
 Ion Ratio Lower Upper
 173 100
 175 52.3 39.3 58.9
 254 7.2 9.1 13.7#





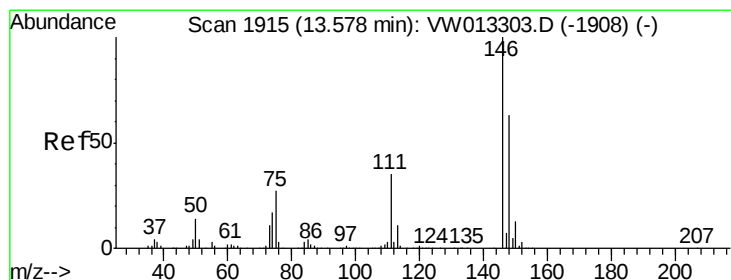
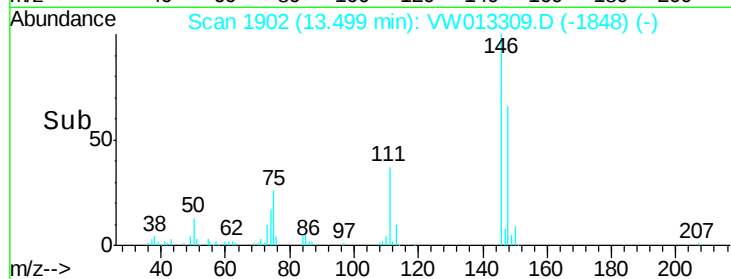
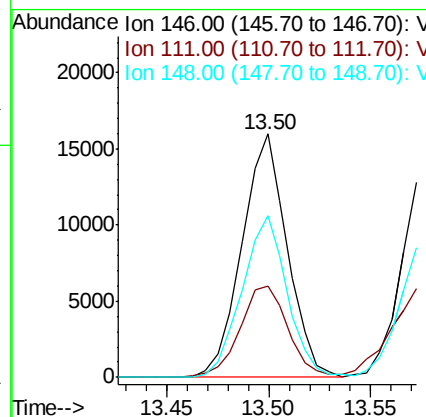
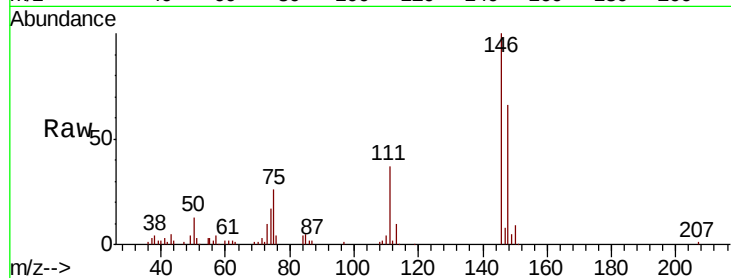
#63
 1,3-Dichlorobenzene
 Concen: 2.206 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	26.7	49.5
148	66.2	45.0	83.6

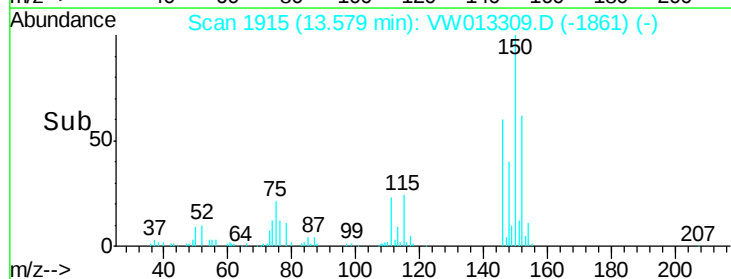
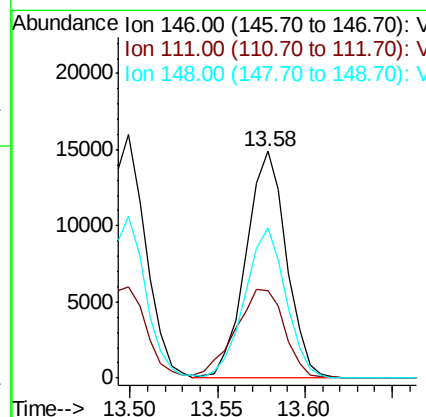
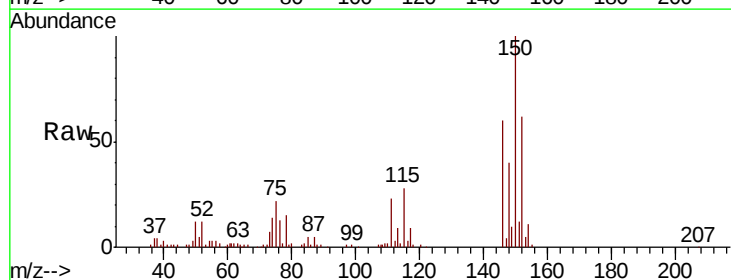
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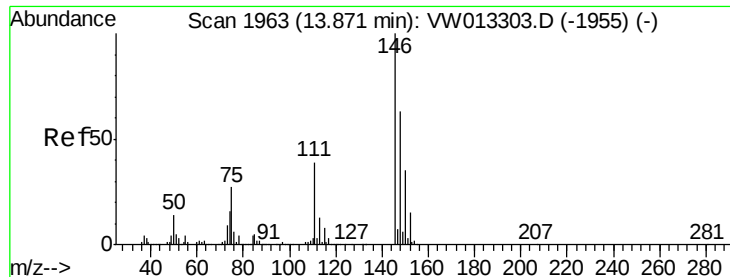
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#64
 1,4-Dichlorobenzene
 Concen: 2.130 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	24.2	45.0
148	66.3	45.1	83.7





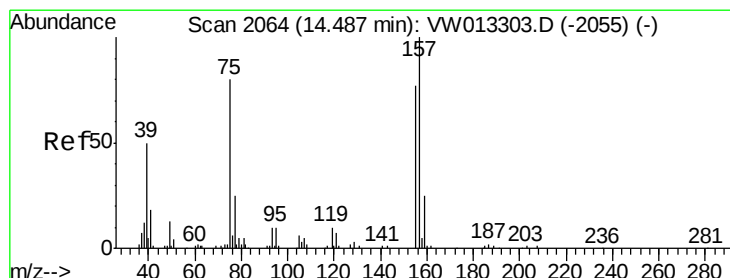
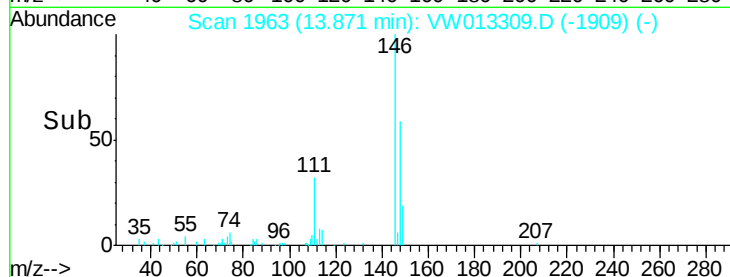
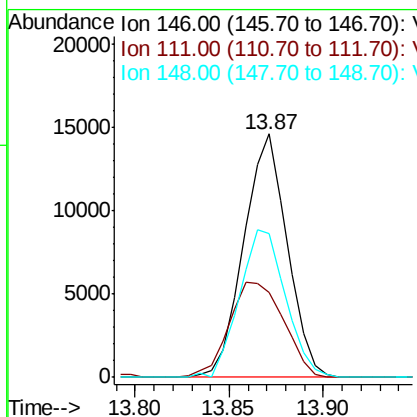
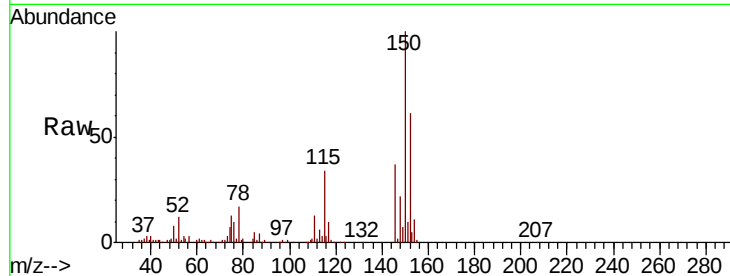
#65
 1,2-Dichlorobenzene
 Concen: 2.307 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.8	30.8	46.2
148	59.1	52.5	78.7

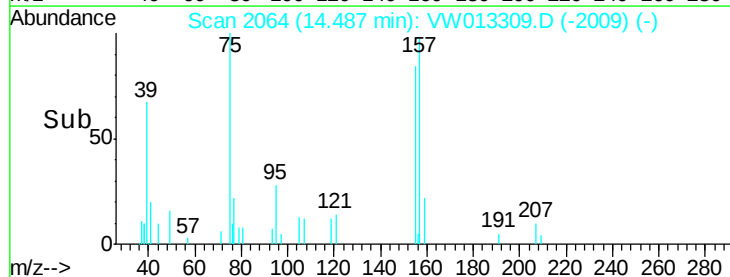
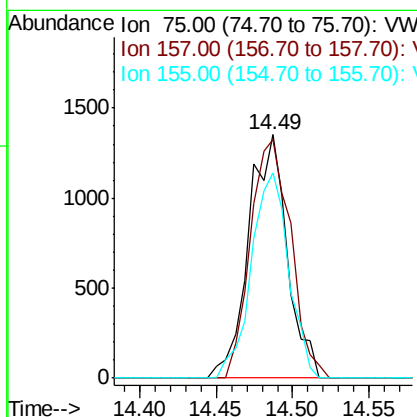
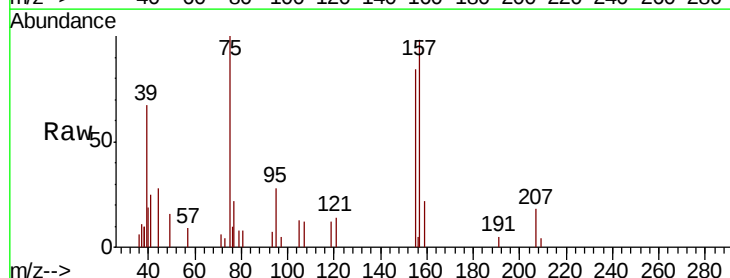
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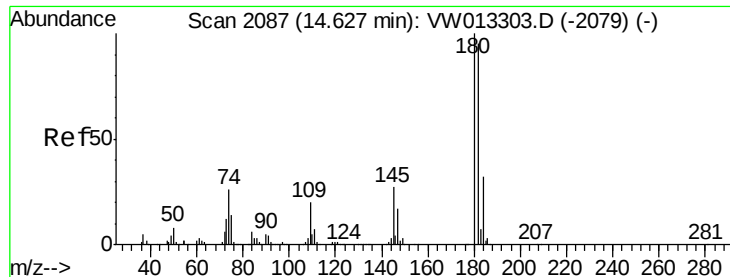
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.982 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Lower	Upper
75	100		
157	98.2	97.8	146.8
155	84.0	78.4	117.6





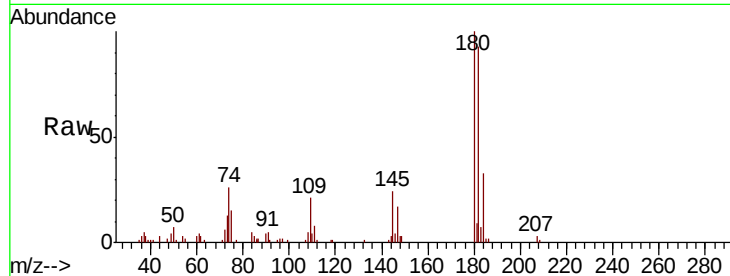
#67
 1,3,5-Trichlorobenzene
 Concen: 2.051 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Resp	Lower	Upper
180	100	17586		
182	93.9	76.4	114.6	
184	32.2	23.9	35.9	
145	27.0	21.7	32.5	

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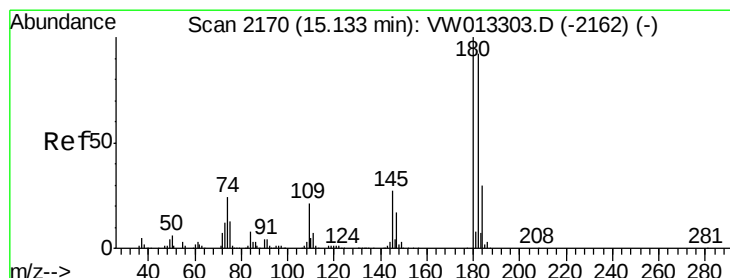
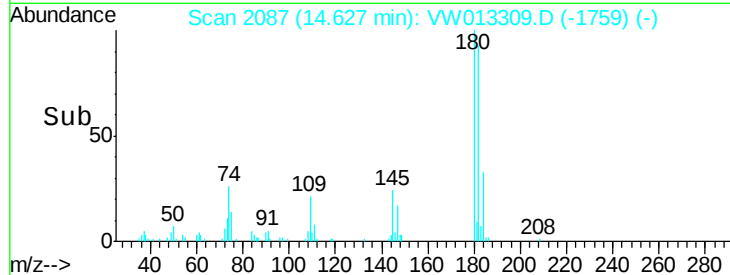
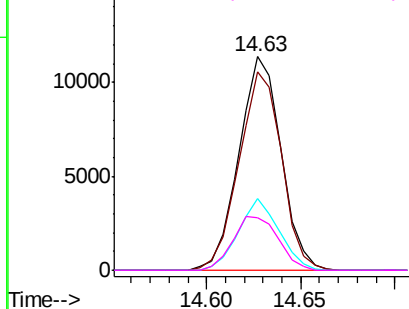
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

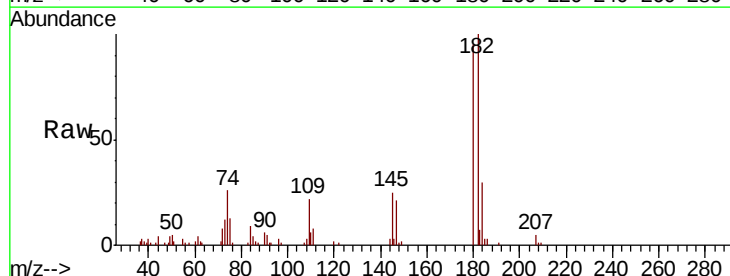
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.919 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013309.D
 Acq: 26 Sep 2019 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	13130		
182	97.0	75.9	113.9	
145	27.1	23.0	34.4	

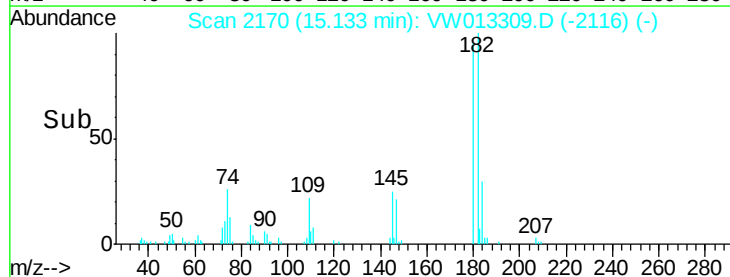
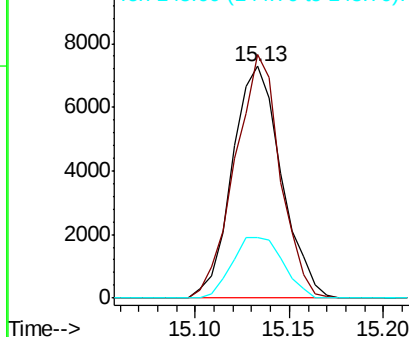


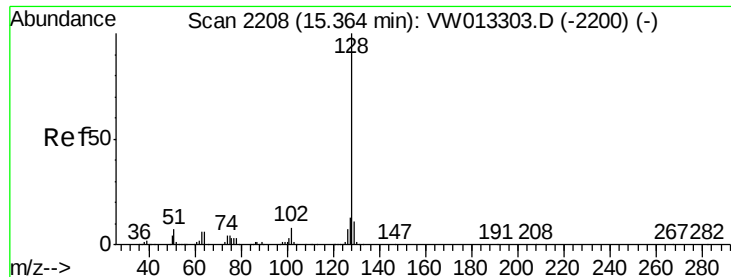
Abundance

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





#69

Naphthalene

Concen: 1.836 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Instrument :

MSVOA_W

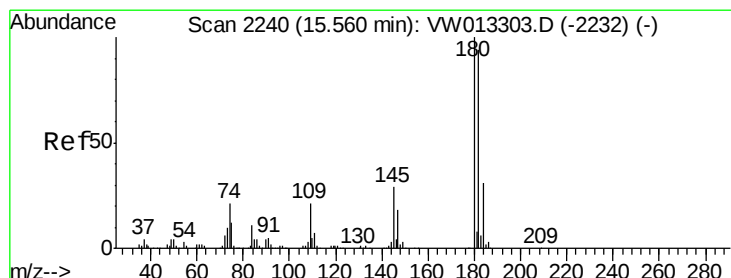
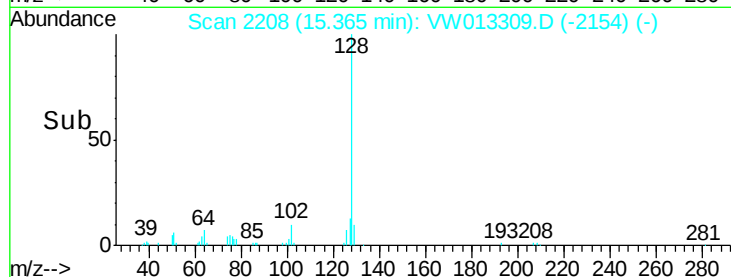
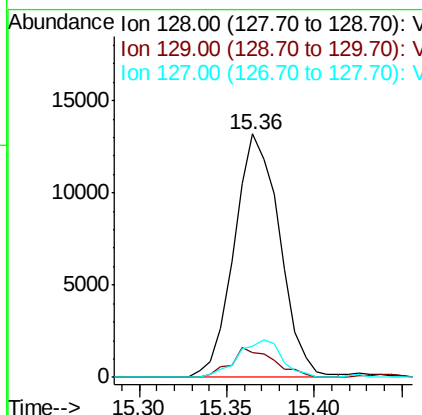
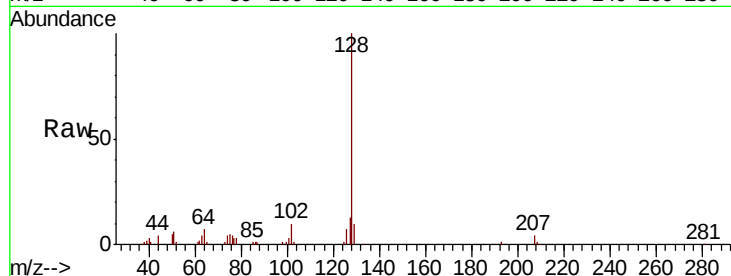
ClientSampleId :

MDL05

Tot Ion:	128	Resp:	23997
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.7	13.1
127	14.7	10.6	15.8

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#70

1,2,3-Trichlorobenzene

Concen: 1.969 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013309.D

Acq: 26 Sep 2019 17:26

Tgt Ion:	180	Resp:	12257
Ion Ratio	Lower	Upper	
180	100		
182	96.1	78.2	117.4
145	29.2	24.1	36.1

