

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021320\
 Data File : VW014983.D
 Acq On : 13 Feb 2020 16:30
 Operator : SY/VA
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 2/14/2020 4:29:04 PM

Quant Time: Feb 14 05:32:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM021320SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Feb 13 12:39:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	702687	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	651485	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.55	152	264118	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	350355	24.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.04%
7) Chloroethane-d5	2.89	69	262071	24.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.20%
11) 1,1-Dichloroethene-d2	4.02	63	474132	18.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.72%
21) 2-Butanone-d5	7.07	46	204472	51.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.68%
24) Chloroform-d	7.65	84	548014	24.28	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.12%
26) 1,2-Dichloroethane-d4	8.31	65	338706m	25.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.32%
32) Benzene-d6	8.27	84	1120228	25.52	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.08%
36) 1,2-Dichloropropane-d6	9.27	67	383801	25.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.68%
41) Toluene-d8	10.32	98	940869	25.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.60%
43) trans-1,3-Dichloropropene-	10.58	79	141379	24.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.60%
47) 2-Hexanone-d5	10.92	63	140612	52.36	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.72%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	286826	25.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.84%
66) 1,2-Dichlorobenzene-d4	13.85	152	262464	26.40	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	12560m	1.799	ug/L	
3) Chloromethane	2.21	50	26828	2.044	ug/L	98
5) Vinyl chloride	2.36	62	35482m	2.100	ug/L	
6) Bromomethane	2.78	94	15999	2.087	ug/L	97
8) Chloroethane	2.92	64	18169	2.010	ug/L	99
9) Trichlorofluoromethane	3.26	101	11434	1.713	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	4.07	101	25398	2.326	ug/L #	60
12) 1,1-Dichloroethene	4.04	96	23958	2.288	ug/L #	1
13) Acetone	4.12	43	22648	5.501	ug/L	93
14) Carbon disulfide	4.39	76	74269	1.962	ug/L	97
15) Methyl Acetate	4.68	43	14562	2.038	ug/L	99
16) Methylene chloride	4.92	84	65952	5.080	ug/L	98
17) trans-1,2-Dichloroethene	5.42	96	21534	2.038	ug/L	88
18) Methyl tert-butyl Ether	5.43	73	25351	1.944	ug/L #	91
19) 1,1-Dichloroethane	6.21	63	46966	1.990	ug/L	96
20) cis-1,2-Dichloroethene	7.17	96	21942m	2.015	ug/L	
22) 2-Butanone	7.17	43	25601	5.172	ug/L	96

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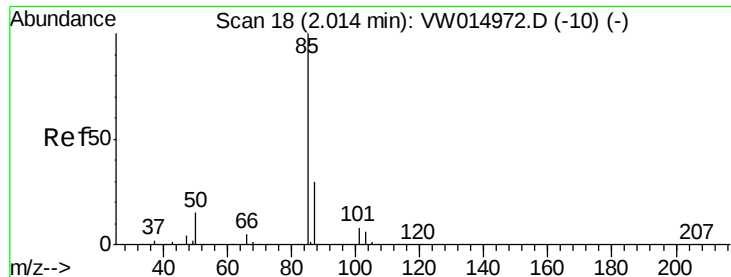
Manual Integrations
 APPROVED

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 2/14/2020 4:29:04 PM

Quant Time: Feb 14 05:32:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM021320SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Feb 13 12:39:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	9406	2.129	ug/L	88
25) Chloroform	7.68	83	46318	2.202	ug/L	94
27) 1,2-Dichloroethane	8.40	62	33792	2.186	ug/L	100
29) Cyclohexane	7.95	56	34948	1.645	ug/L	99
30) 1,1,1-Trichloroethane	7.87	97	32414	2.045	ug/L	98
31) Carbon tetrachloride	8.07	117	28523	1.997	ug/L	99
33) Benzene	8.32	78	108598	2.270	ug/L	100
34) Trichloroethene	9.09	95	23872	2.084	ug/L	95
35) Methylcyclohexane	9.33	83	35138	1.778	ug/L	96
37) 1,2-Dichloropropane	9.37	63	27499	2.058	ug/L #	96
38) Bromodichloromethane	9.64	83	30389	2.020	ug/L	99
39) cis-1,3-Dichloropropene	10.07	75	35631	1.994	ug/L	94
40) 4-Methyl-2-pentanone	10.21	43	37643	3.958	ug/L	100
42) Toluene	10.38	91	97325	2.106	ug/L	96
44) trans-1,3-Dichloropropene	10.60	75	26858m	1.811	ug/L	
45) 1,1,2-Trichloroethane	10.79	97	16754	2.067	ug/L	94
46) Tetrachloroethene	10.86	164	15548	2.090	ug/L	94
48) 2-Hexanone	10.97	43	28373	4.094	ug/L	97
49) Dibromochloromethane	11.13	129	17099	2.025	ug/L	95
50) 1,2-Dibromoethane	11.23	107	15138	2.072	ug/L	97
51) Chlorobenzene	11.65	112	55080	2.020	ug/L	97
52) Ethylbenzene	11.73	91	92604	1.839	ug/L	97
53) m,p-Xylene	11.84	106	30306	1.716	ug/L	97
54) o-Xylene	12.16	106	27432	1.654	ug/L	95
55) Styrene	12.18	104	44800	1.567	ug/L	88
57) 1,1,2,2-Tetrachloroethane	12.71	83	24621	2.271	ug/L	99
59) Bromoform	12.35	173	8554	2.118	ug/L	95
60) Isopropylbenzene	12.46	105	71047	1.718	ug/L	98
61) 1,2,3-Trichloropropane	12.77	75	17441	2.253	ug/L	97
62) 1,3,5-Trimethylbenzene	12.94	105	54340	1.648	ug/L	99
63) 1,2,4-Trimethylbenzene	13.25	105	50038	1.551	ug/L	97
64) 1,3-Dichlorobenzene	13.50	146	33526	1.967	ug/L	97
65) 1,4-Dichlorobenzene	13.58	146	35720	2.033	ug/L	98
67) 1,2-Dichlorobenzene	13.87	146	33456	2.121	ug/L	99
68) 1,2-Dibromo-3-chloropropan	14.48	75	3690	2.280	ug/L	97
69) 1,3,5-Trichlorobenzene	14.63	180	21314	1.866	ug/L	98
70) 1,2,4-trichlorobenzene	15.13	180	13895	1.623	ug/L	97
71) Naphthalene	15.37	128	12932	1.471	ug/L #	96
72) 1,2,3-Trichlorobenzene	15.55	180	13548	1.708	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 1.799 ug/L m

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 12560

Ion Ratio Lower Upper

85 100

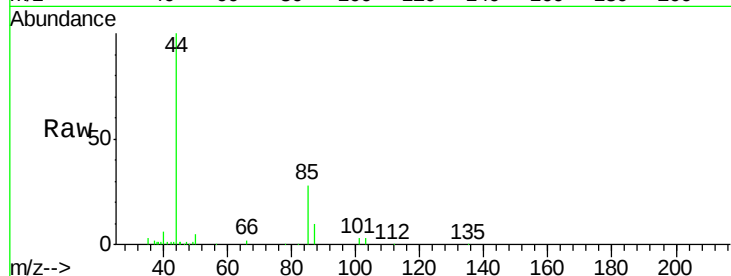
87 0.4 21.5 32.3#

Manual Integrations

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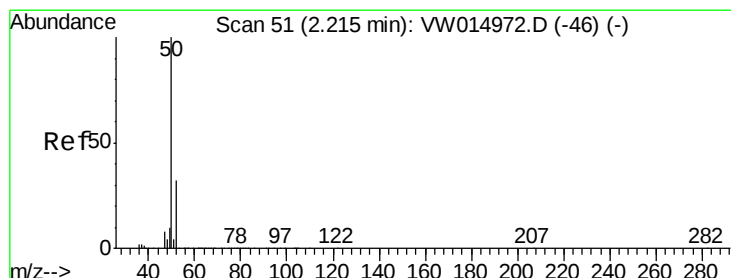
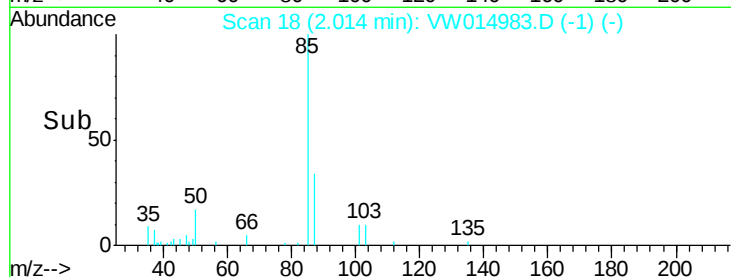
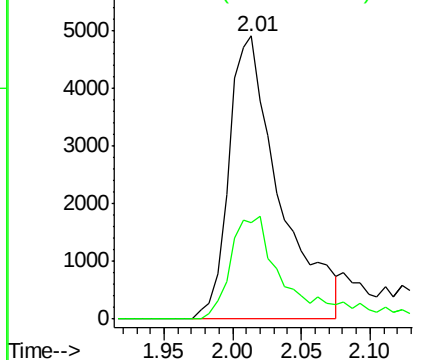
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Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 2.044 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014983.D

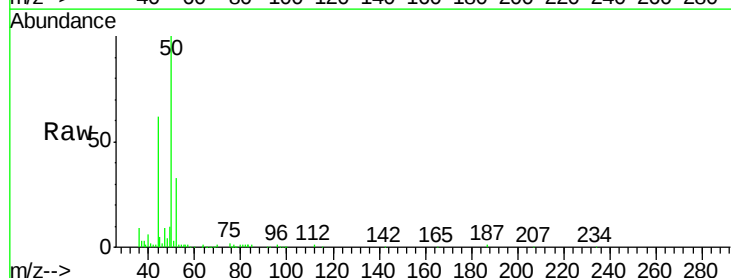
Acq: 13 Feb 2020 16:30

Tgt Ion: 50 Resp: 26828

Ion Ratio Lower Upper

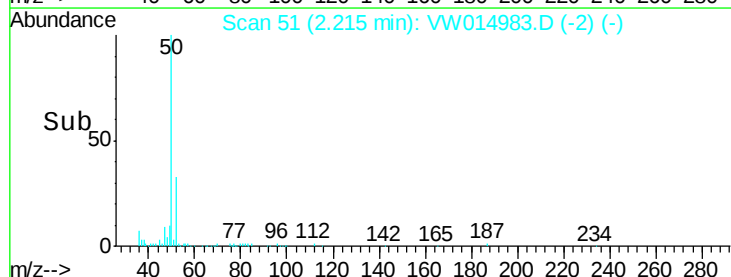
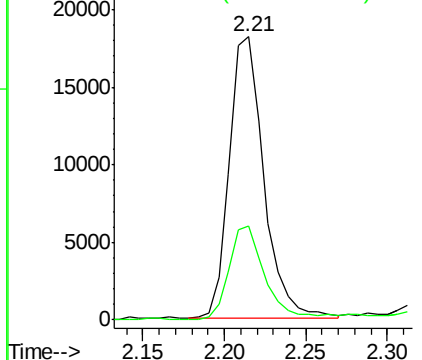
50 100

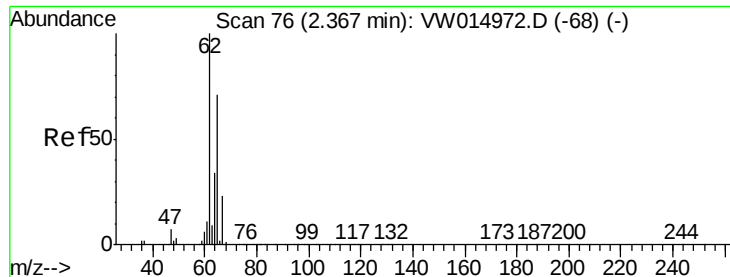
52 33.1 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 2.100 ug/L m

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 62 Resp: 35482

Ion Ratio Lower Upper

62 100

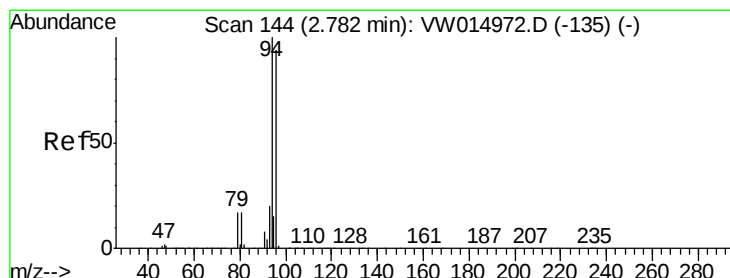
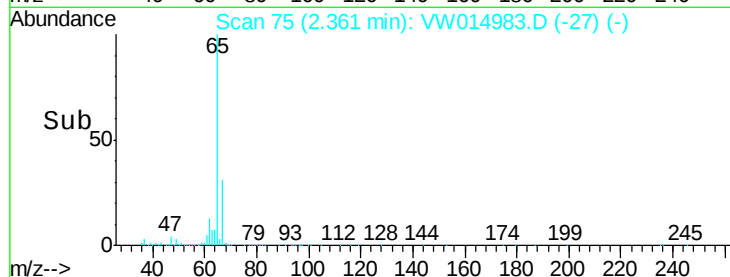
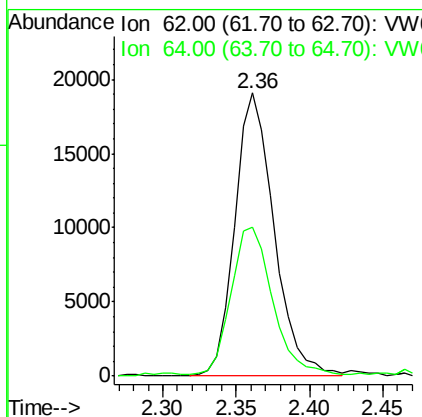
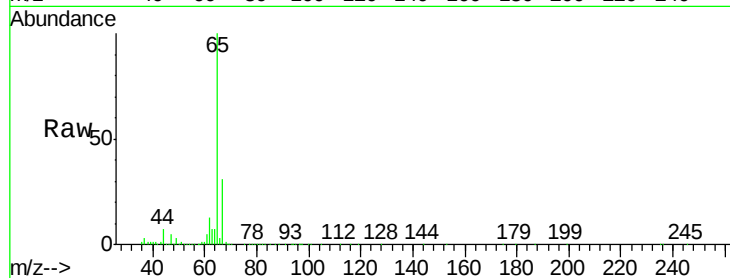
64 52.5 23.6 43.8#

Manual Integrations

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#6

Bromomethane

Concen: 2.087 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW014983.D

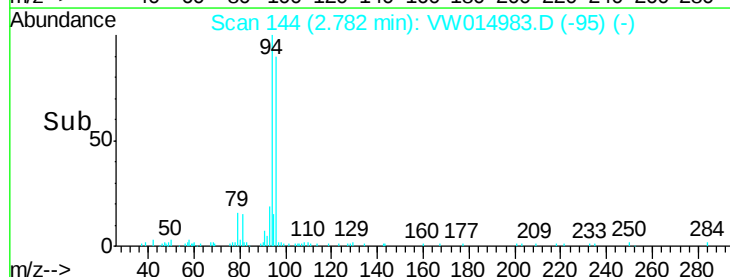
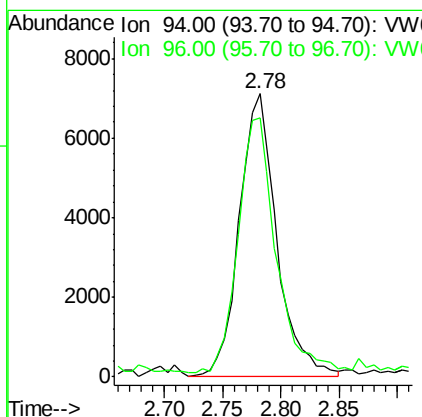
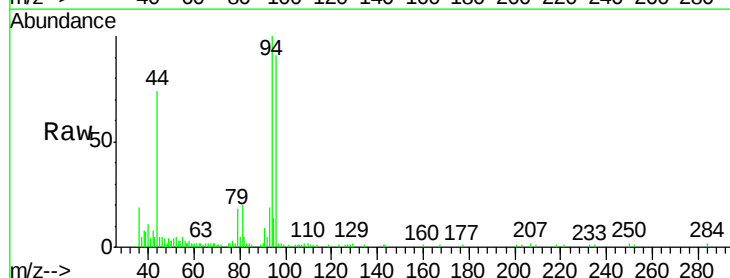
Acq: 13 Feb 2020 16:30

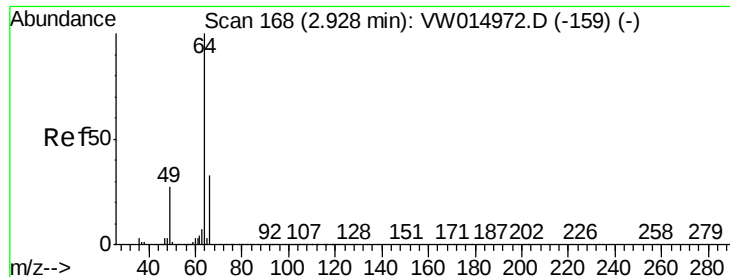
Tgt Ion: 94 Resp: 15999

Ion Ratio Lower Upper

94 100

96 91.5 65.8 122.2





#8

Chloroethane

Concen: 2.010 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

ClientSampled :

MDL02

Tot Ion: 64 Resp: 18169

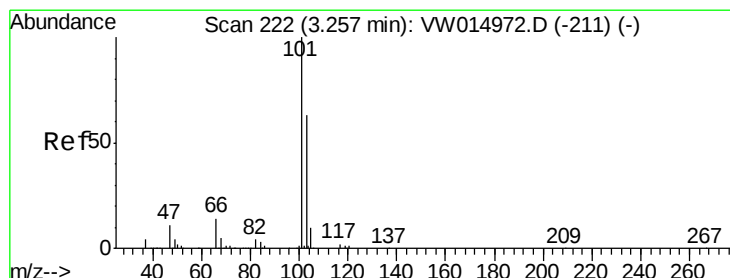
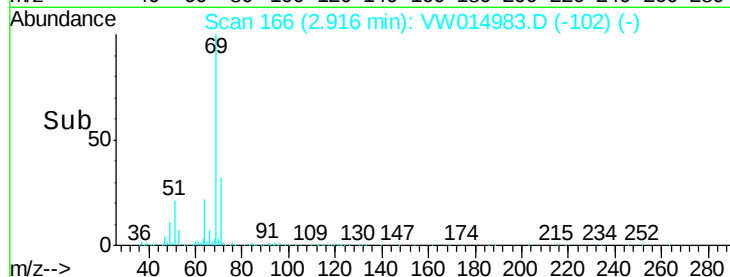
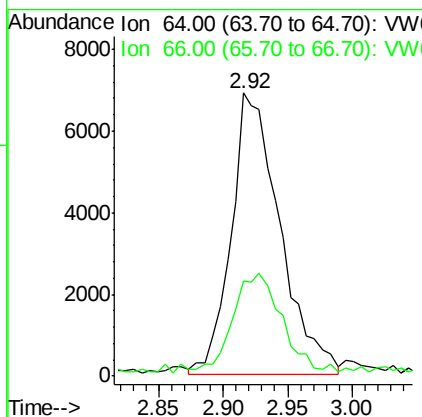
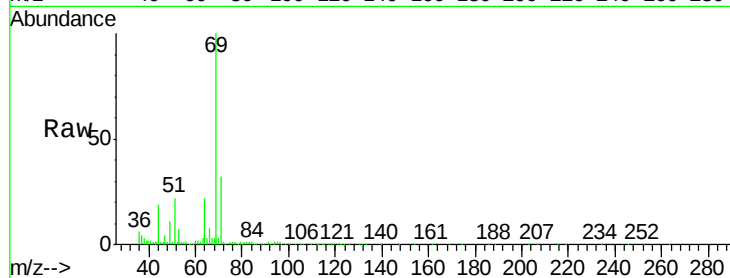
Ion Ratio Lower Upper

64 100

66 33.7 23.1 42.9

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 1.713 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014983.D

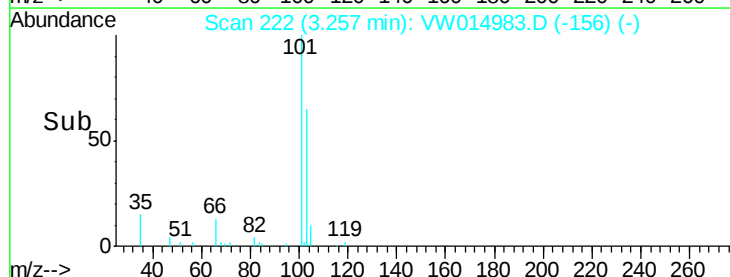
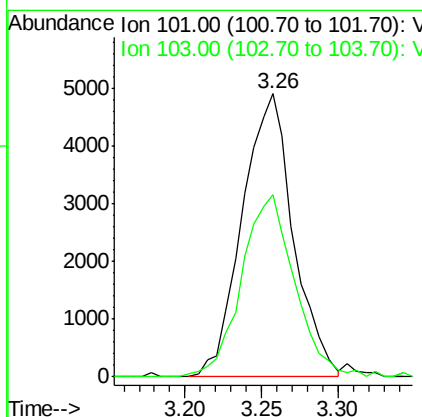
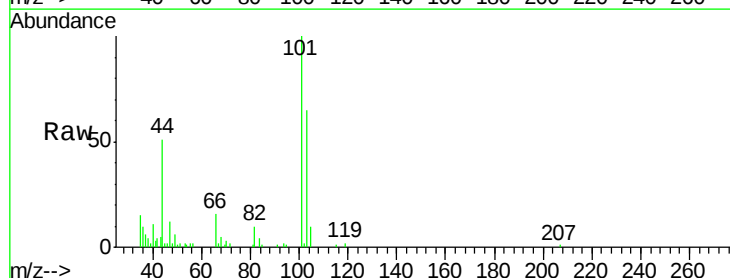
Acq: 13 Feb 2020 16:30

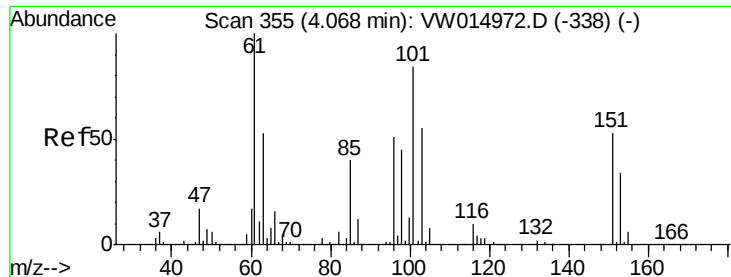
Tgt Ion: 101 Resp: 11434

Ion Ratio Lower Upper

101 100

103 66.4 51.5 77.3





#10

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

Concen: 2.326 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

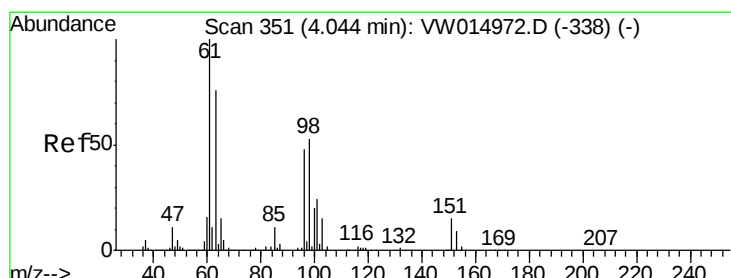
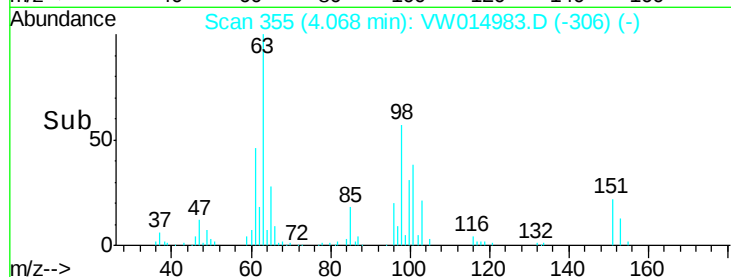
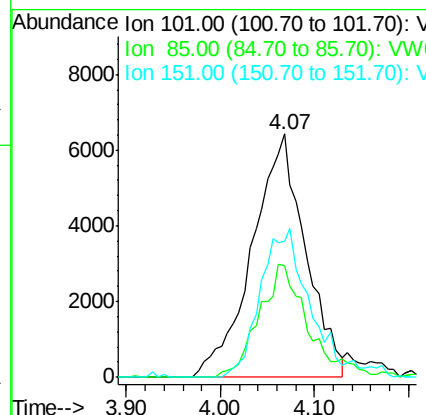
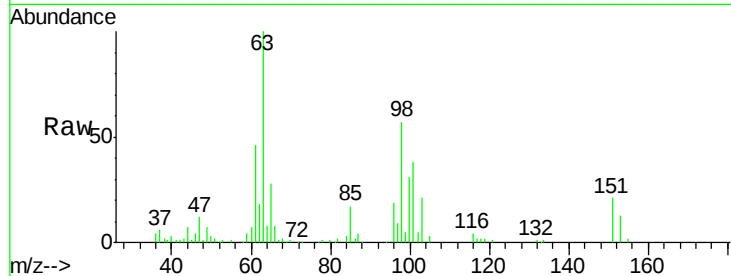
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	25398
Ion Ratio	Lower	Upper	
101	100		
85	27.3	36.5	54.7#
151	24.6	50.2	75.4#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.288 ug/L

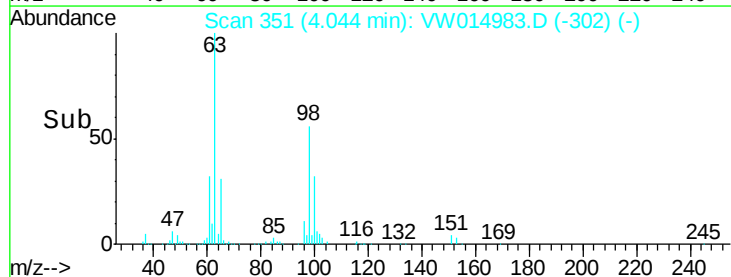
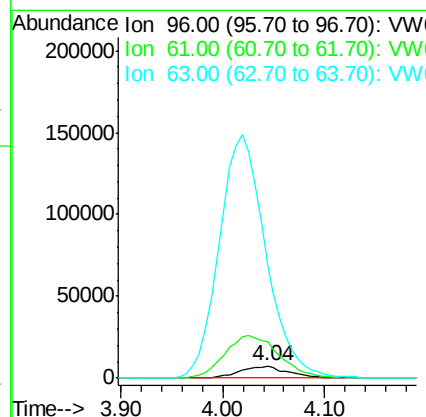
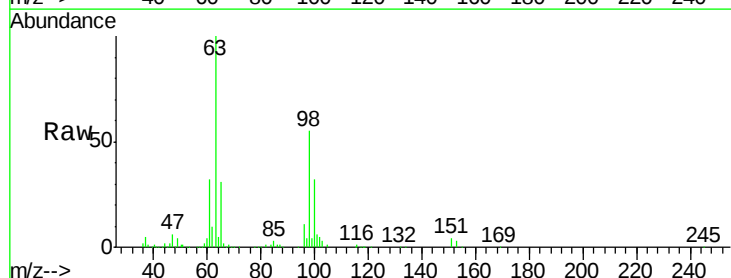
RT: 4.04 min Scan# 351

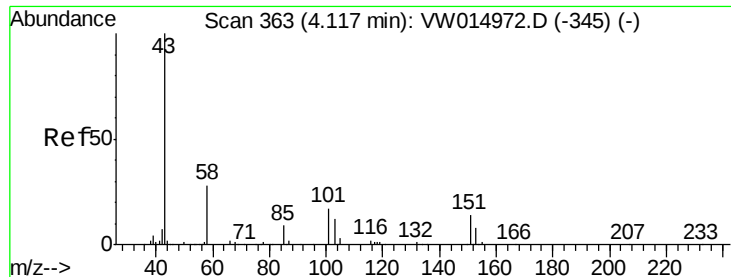
Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Tgt Ion:	96	Resp:	23958
Ion Ratio	Lower	Upper	
96	100		
61	298.7	147.0	273.0#
63	935.9	113.4	210.6#





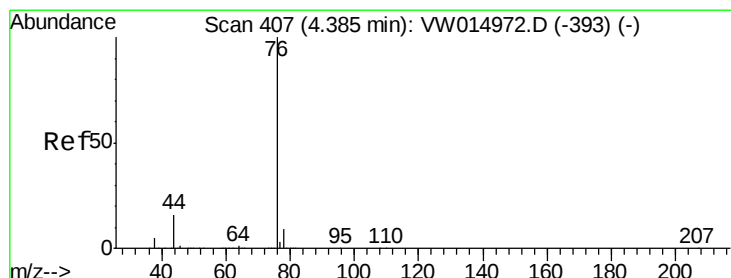
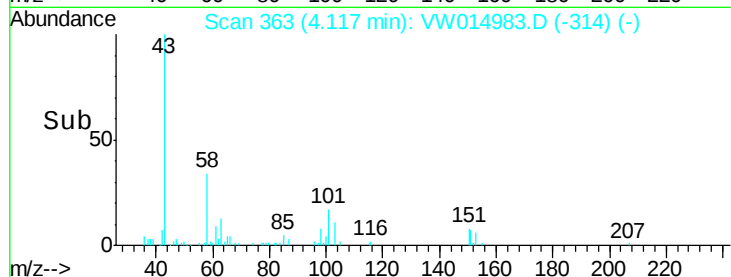
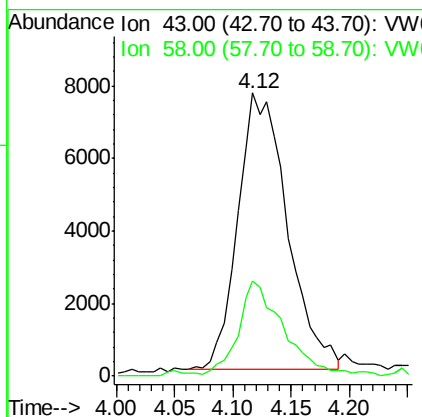
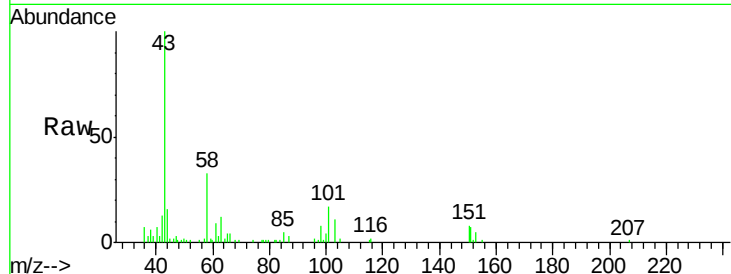
#13
Acetone
Concen: 5.501 ug/L
RT: 4.12 min Scan# 363
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion	43	Resp	22648
Ion Ratio	100	Lower	Upper
43	100		
58	30.9	0.0	54.6

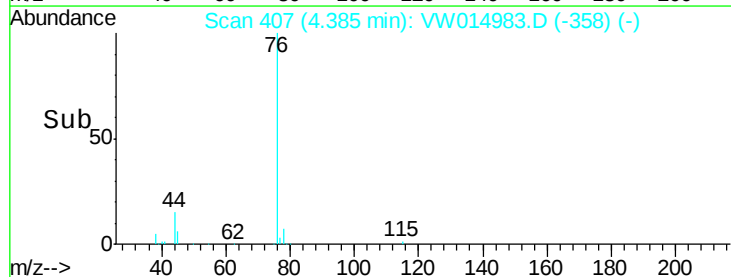
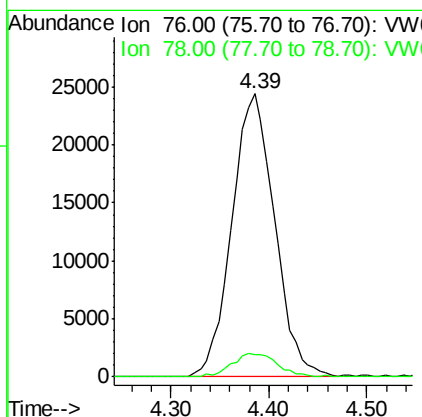
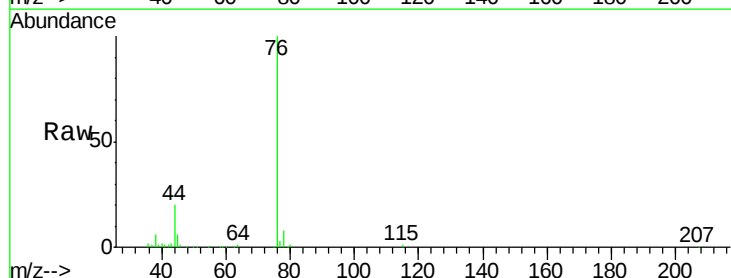
Manual Integrations
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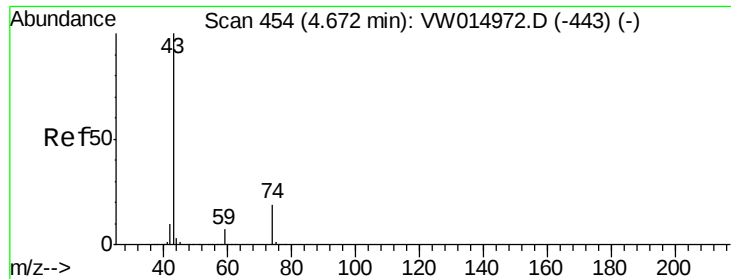
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#14
Carbon disulfide
Concen: 1.962 ug/L
RT: 4.39 min Scan# 407
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	76	Resp	74269
Ion Ratio	100	Lower	Upper
76	100		
78	8.0	7.2	10.8





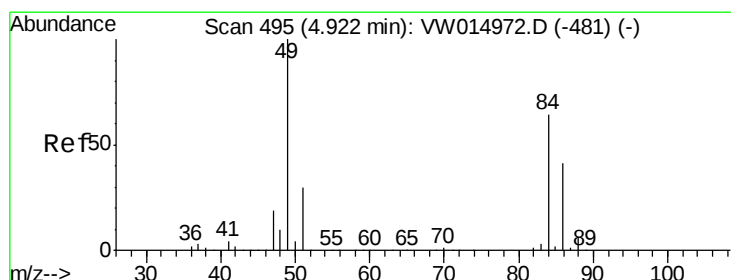
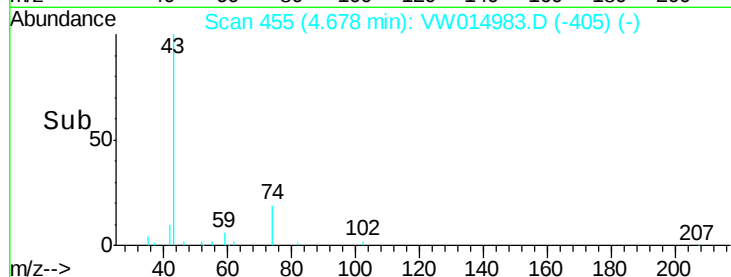
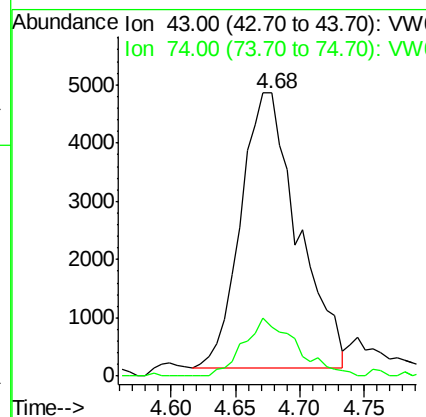
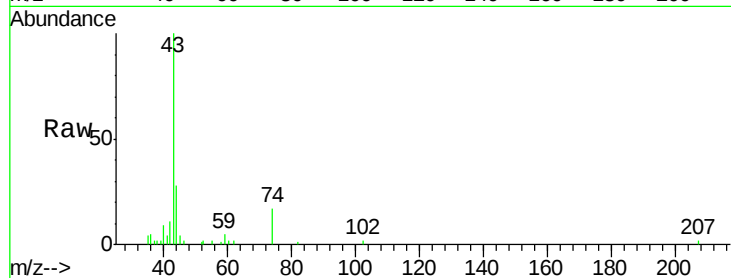
#15
Methyl Acetate
Concen: 2.038 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion: 43 Resp: 14562
Ion Ratio Lower Upper
43 100
74 17.6 14.6 21.8

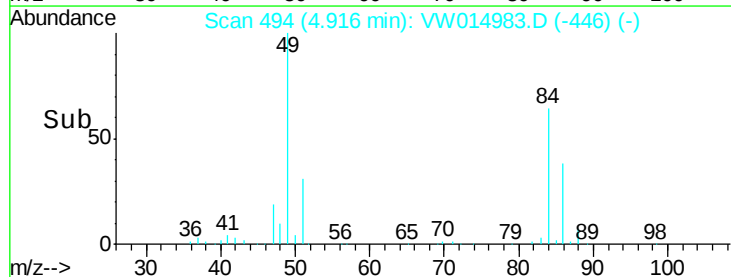
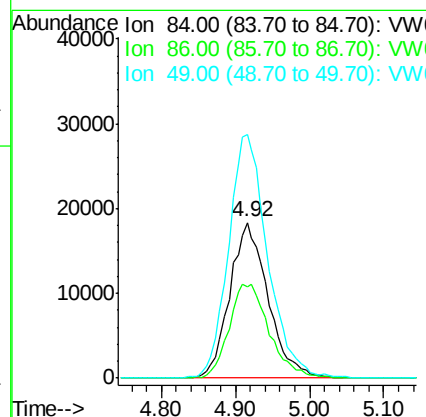
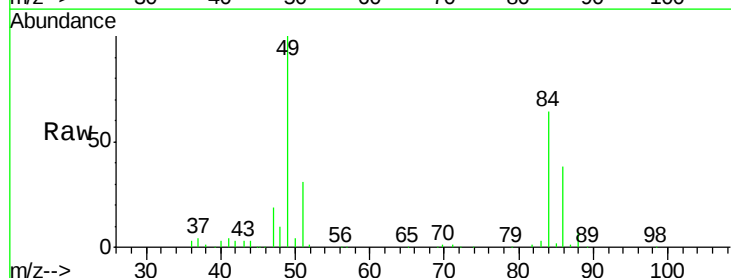
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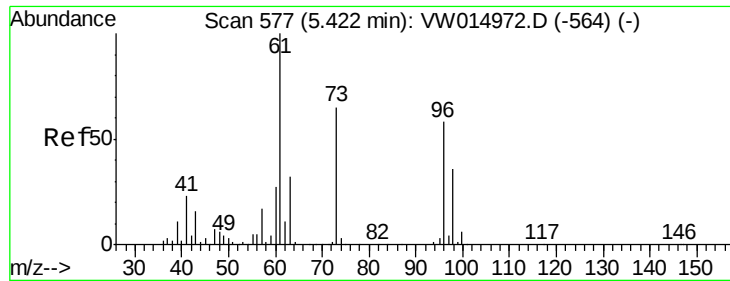
MMDadoda
2/14/2020 4:29:04 PM



#16
Methylene chloride
Concen: 5.080 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion: 84 Resp: 65952
Ion Ratio Lower Upper
84 100
86 59.0 44.4 82.4
49 156.5 109.0 202.4





#17

trans-1,2-Dichloroethene

Concen: 2.038 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

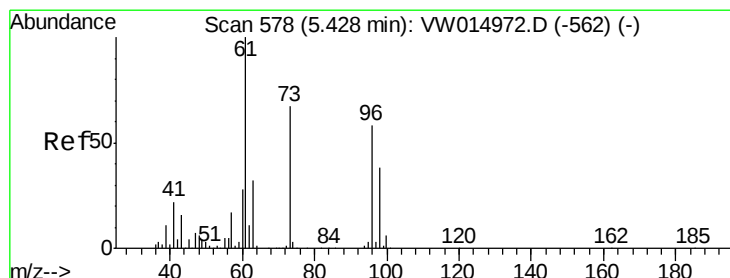
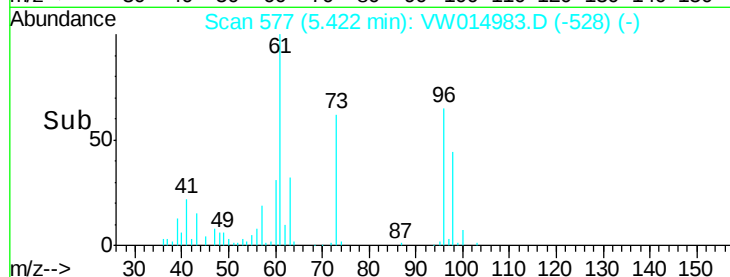
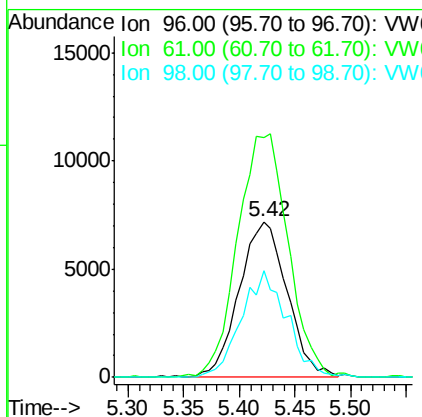
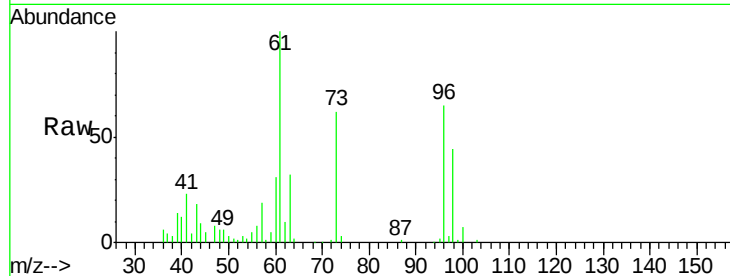
ClientSampled :

MDL02

Tot Ion:	96	Resp:	21534
Ion	Ratio	Lower	Upper
96	100		
61	153.7	120.1	223.1
98	68.2	43.8	81.3

Manual Integrations
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#18

Methyl tert-butyl Ether

Concen: 1.944 ug/L

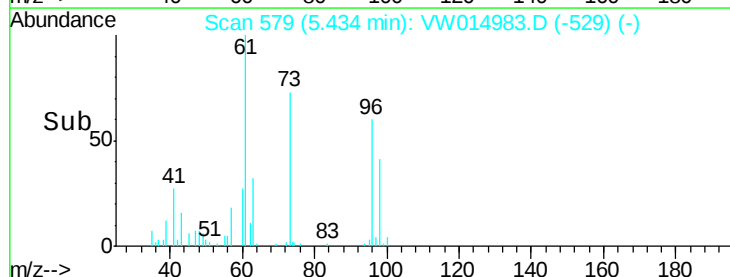
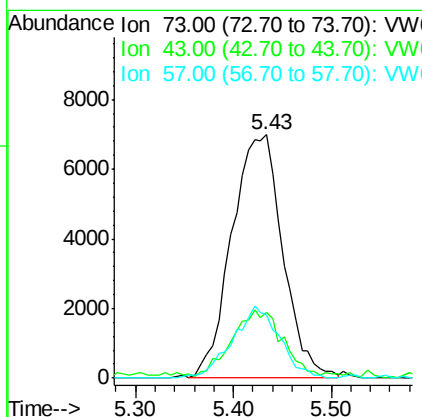
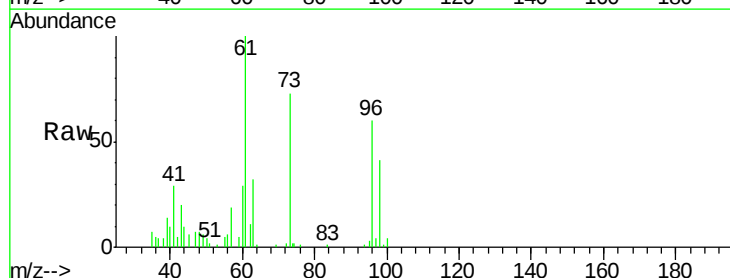
RT: 5.43 min Scan# 579

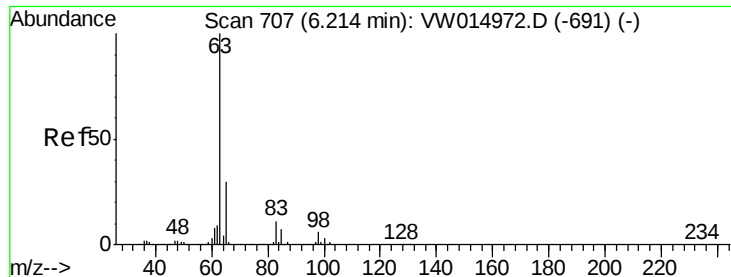
Delta R.T. 0.01 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Tgt Ion:	73	Resp:	25351
Ion	Ratio	Lower	Upper
73	100		
43	15.8	19.6	29.4#
57	26.6	21.0	31.4





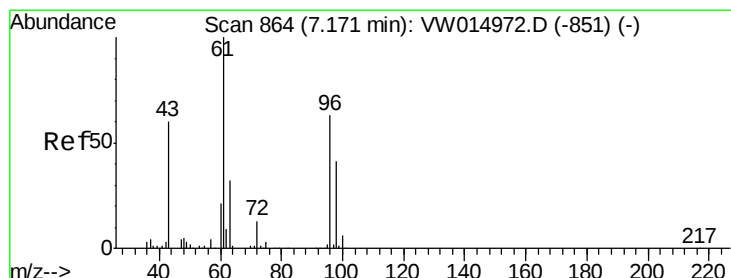
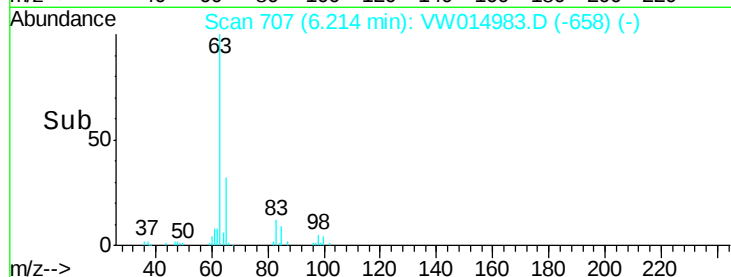
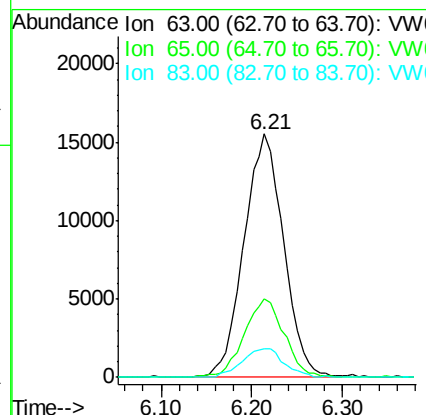
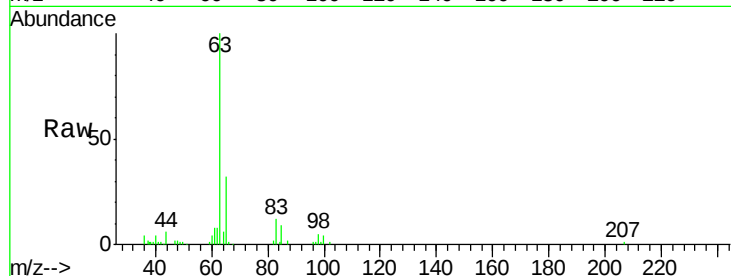
#19
 1,1-Dichloroethane
 Concen: 1.990 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion:	63	Resp:	46966
Ion Ratio	Lower	Upper	
63	100		
65	32.2	20.9	38.7
83	11.6	7.8	14.6

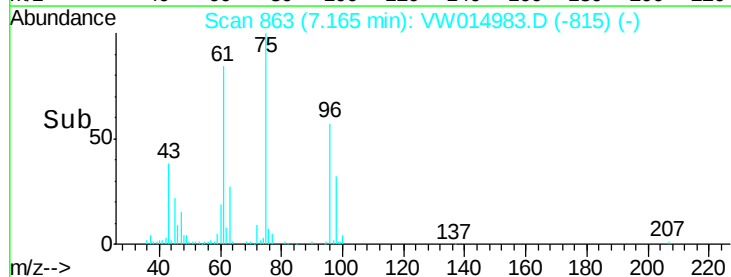
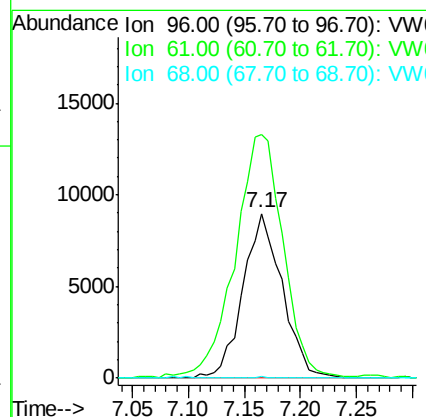
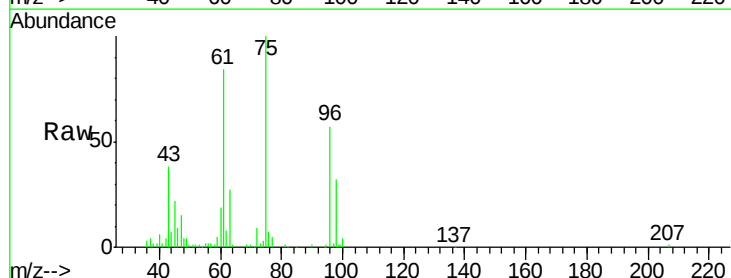
Manual Integrations
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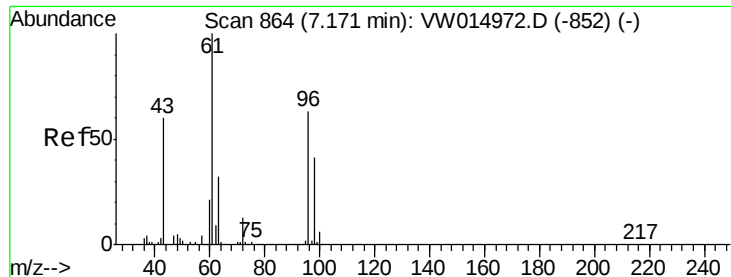
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#20
 cis-1,2-Dichloroethene
 Concen: 2.015 ug/L m
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion:	96	Resp:	21942
Ion Ratio	Lower	Upper	
96	100		
61	147.8	111.5	207.1
68	0.9	0.0	0.0#





#22

2-Butanone

Concen: 5.172 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 25601

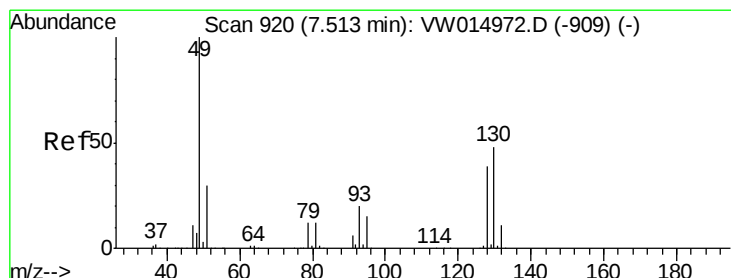
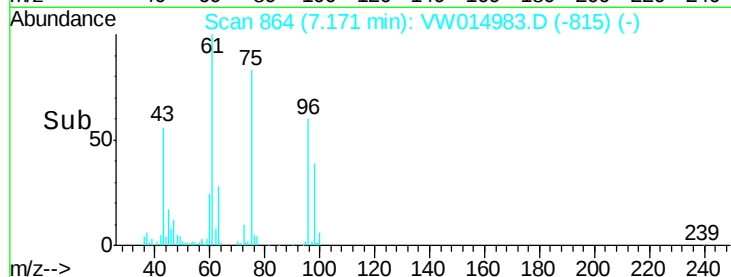
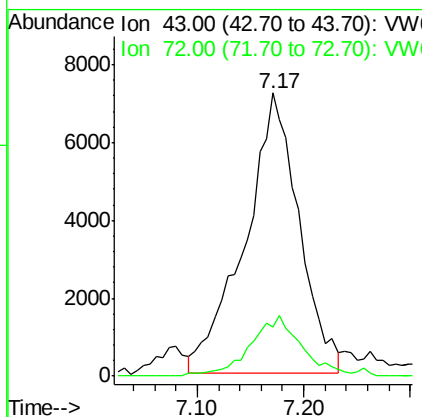
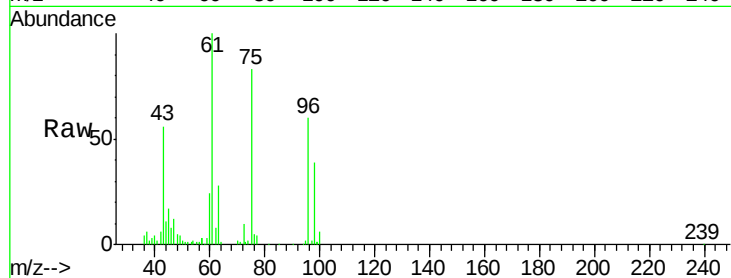
Ion Ratio Lower Upper

43 100

72 20.3 11.1 33.1

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#23

Bromochloromethane

Concen: 2.129 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Tgt Ion: 128 Resp: 9406

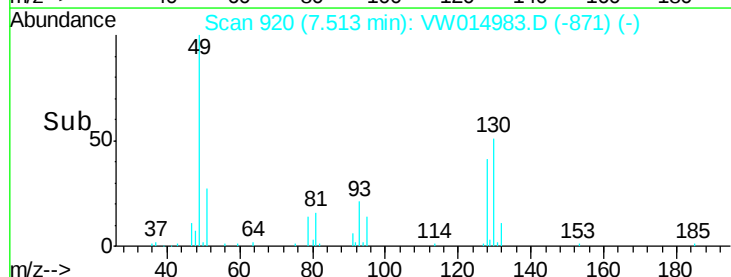
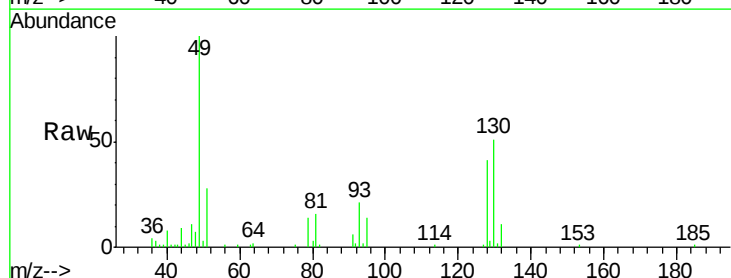
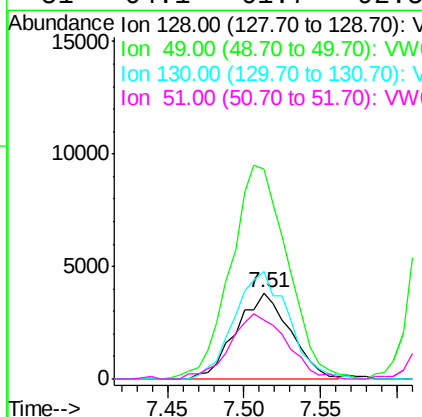
Ion Ratio Lower Upper

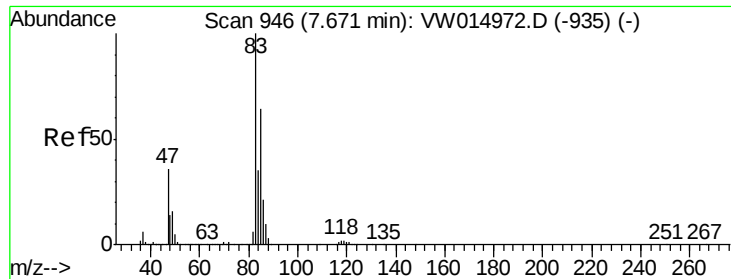
128 100

49 228.6 179.0 332.4

130 117.1 85.5 158.7

51 64.1 61.7 92.5





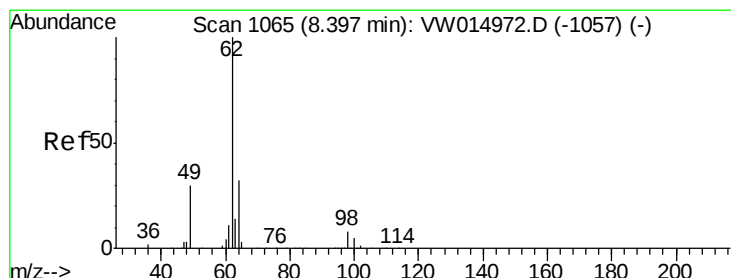
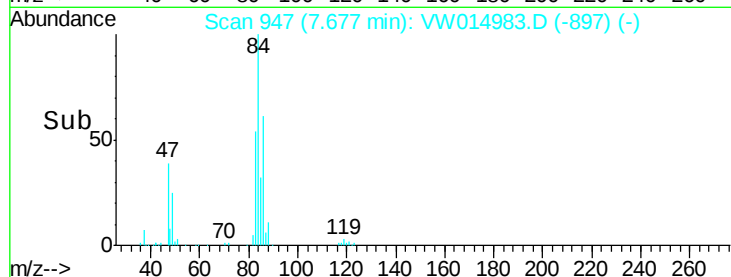
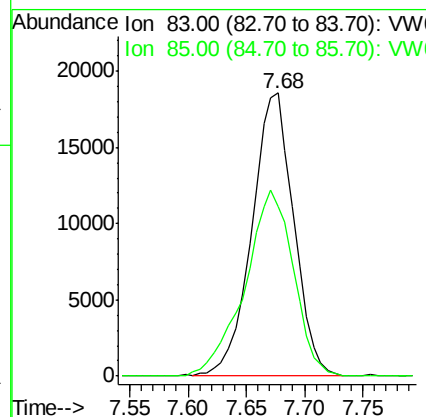
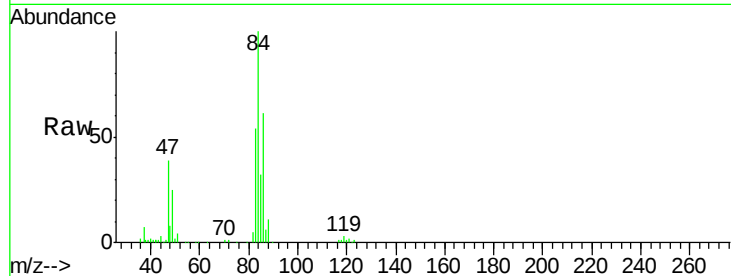
#25
Chloroform
Concen: 2.202 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	46318		
85	59.9	45.1	83.7	

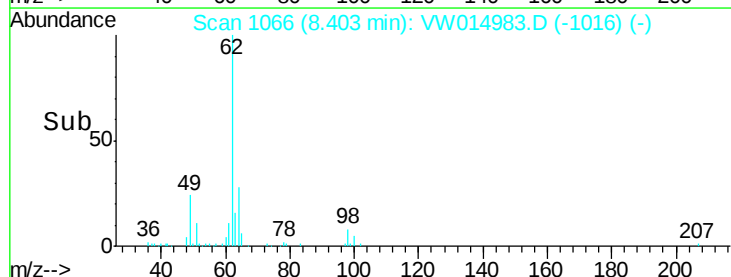
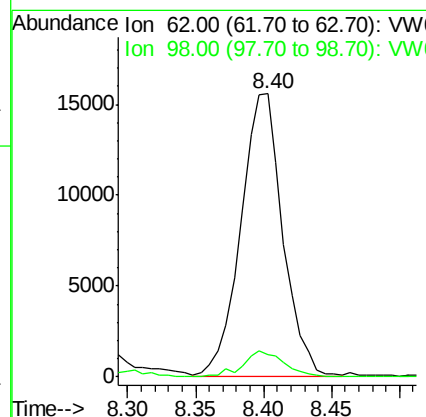
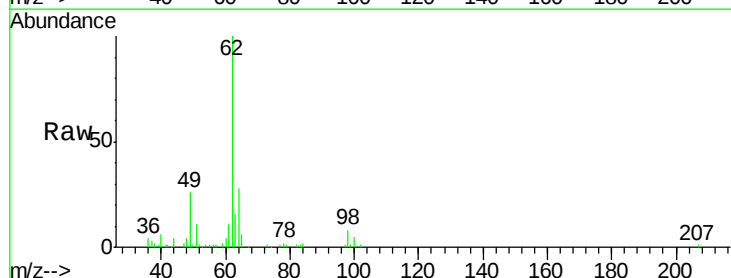
Manual Integrations
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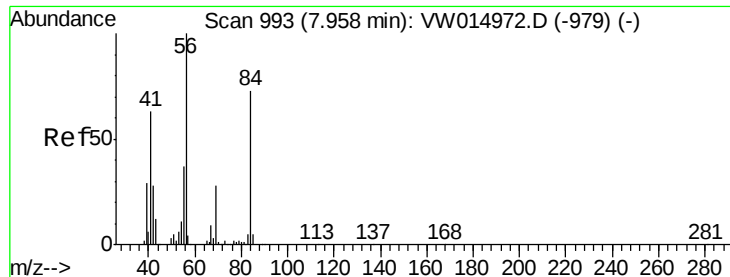
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.186 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	33792		
98	7.7	6.2	9.4	





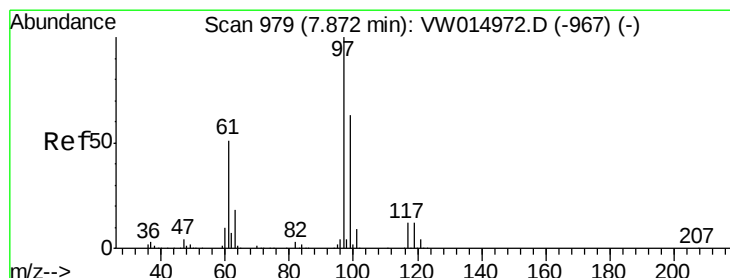
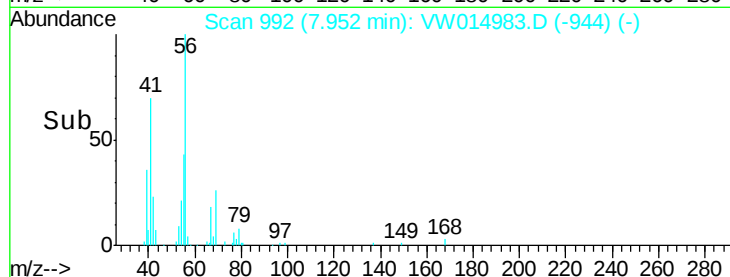
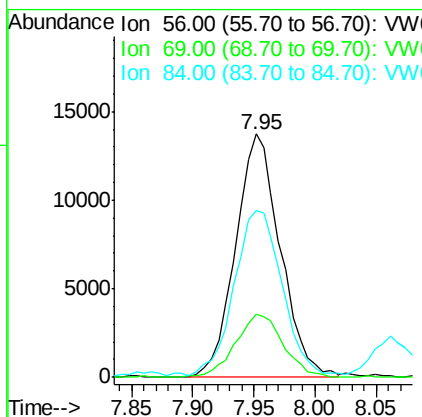
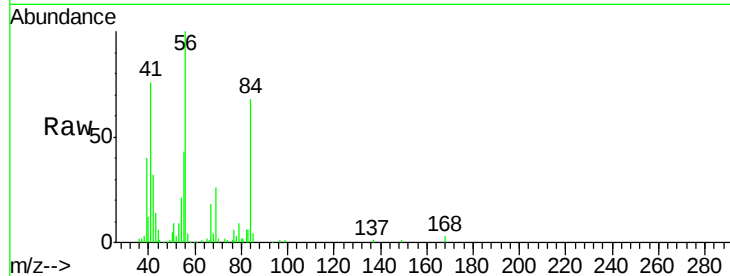
#29
Cyclohexane
Concen: 1.645 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.6	22.0	33.0
84	73.1	57.8	86.6

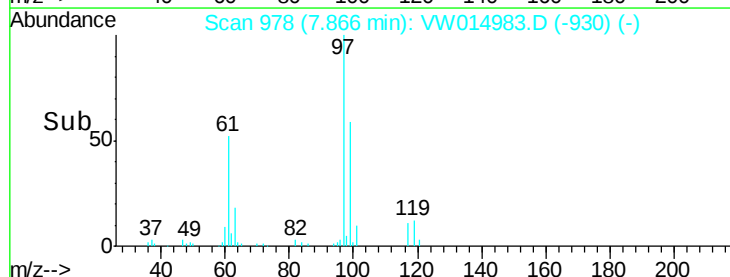
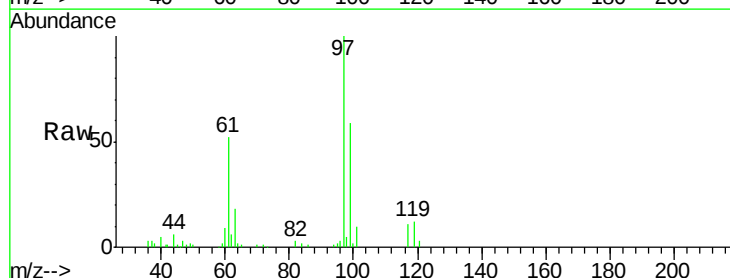
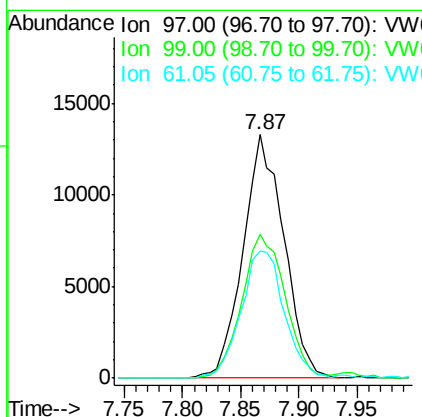
Manual Integrations
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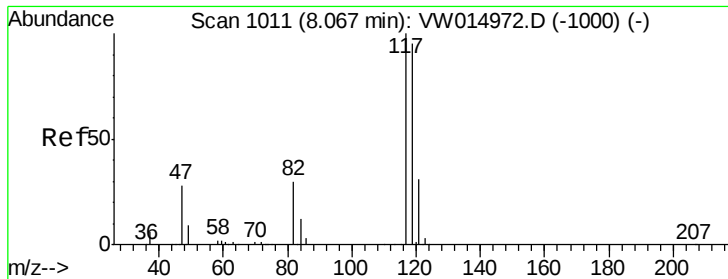
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.045 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.4	50.6	75.8
61	55.1	42.7	64.1





#31

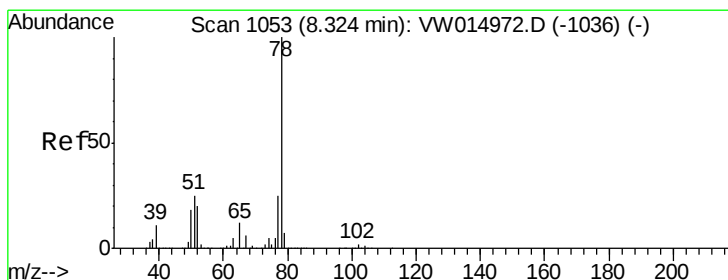
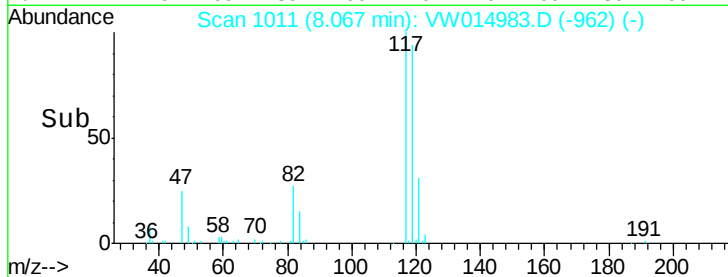
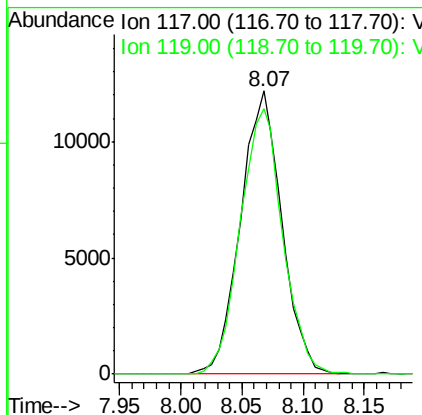
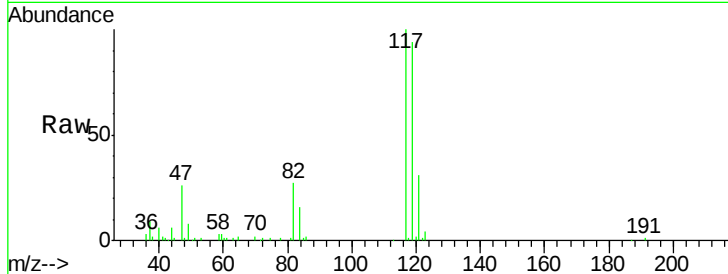
Carbon tetrachloride
Concen: 1.997 ug/L
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion:117 Resp: 28523
Ion Ratio Lower Upper
117 100
119 96.8 76.6 114.8

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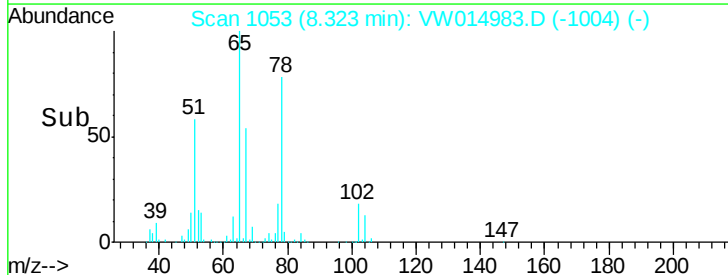
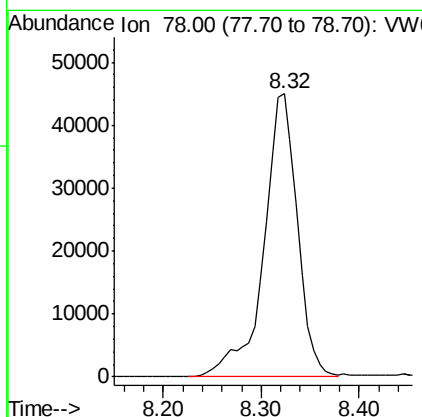
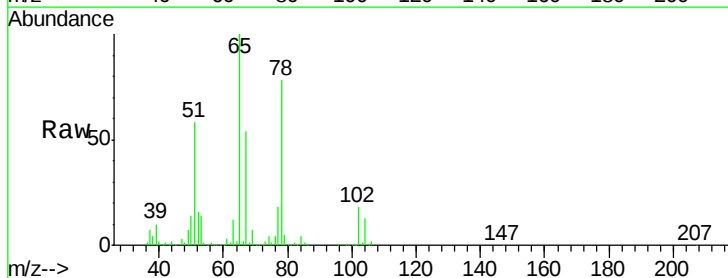
MMDadoda
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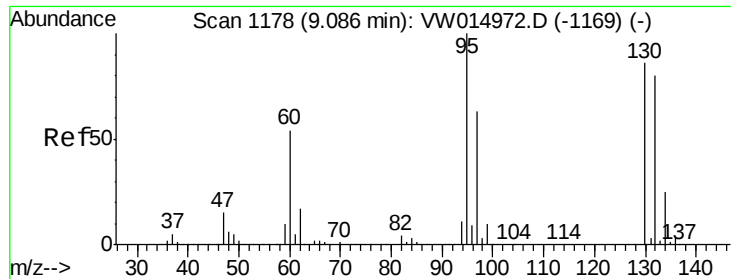


#33

Benzene
Concen: 2.270 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion: 78 Resp: 108598





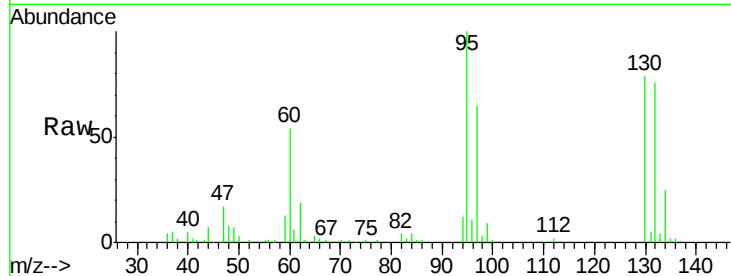
#34
 Trichloroethene
 Concen: 2.084 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

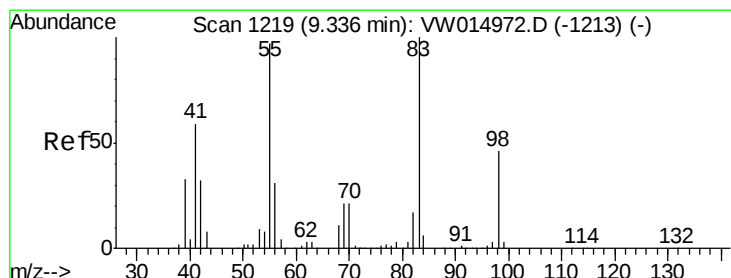
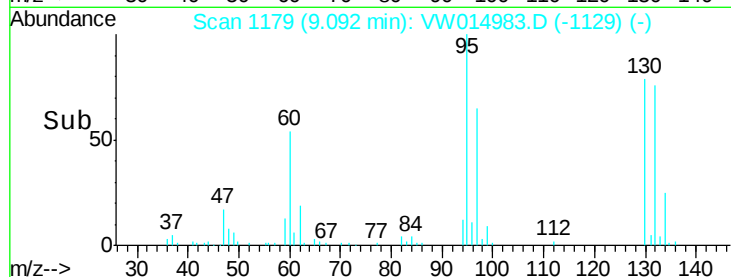
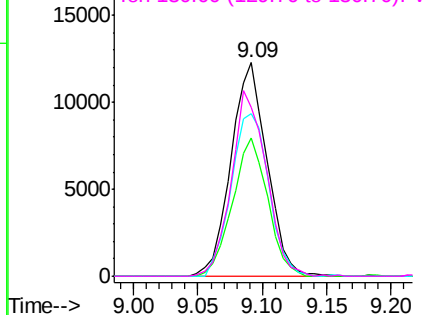
Tot Ion	Ratio	Resp	Lower	Upper
95	100	23872		
97	65.0	44.2	82.0	
132	76.1	56.1	104.3	
130	79.3	60.1	111.7	

Manual Integrations
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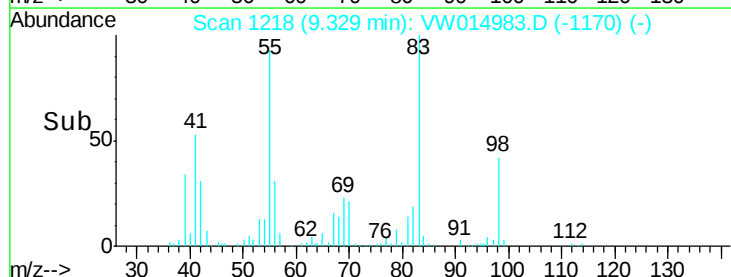
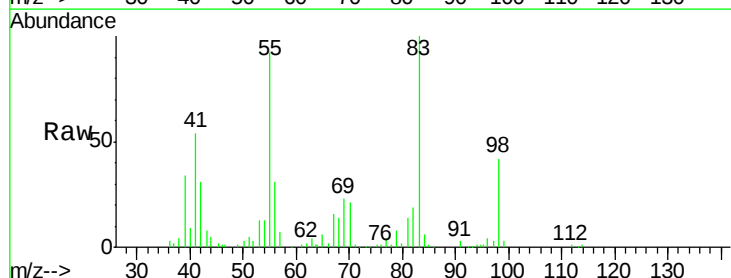
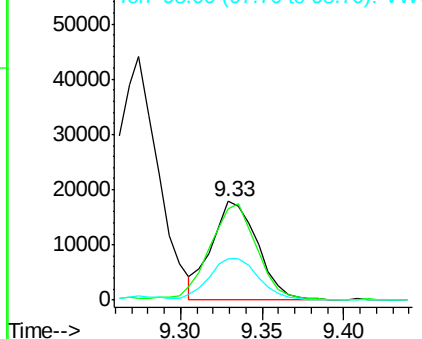
Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

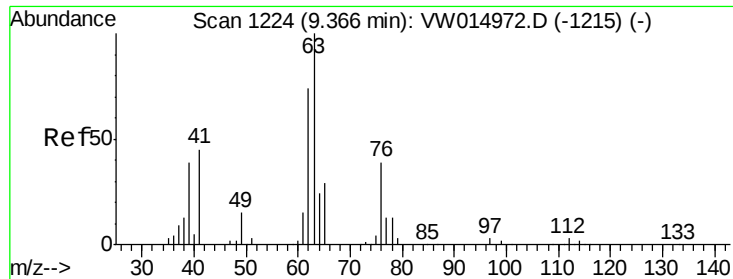


#35
 Methylcyclohexane
 Concen: 1.778 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	35138		
55	100.3	76.3	114.5	
98	44.9	36.4	54.6	

Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 98.00 (97.70 to 98.70): VW





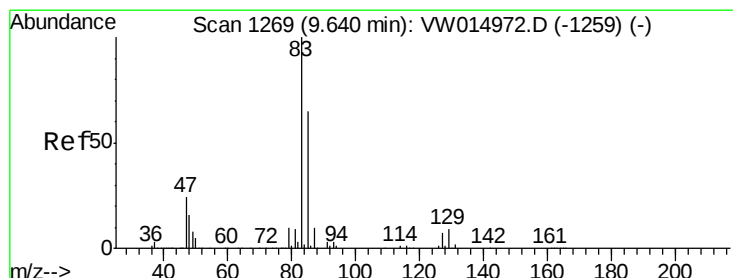
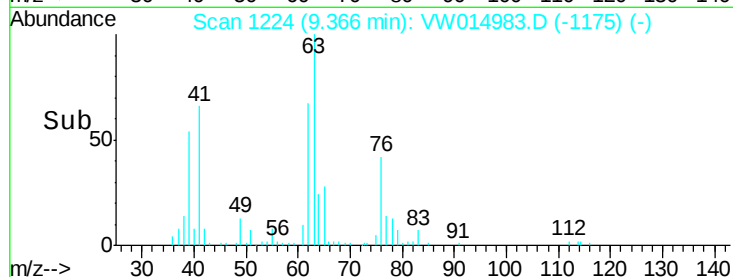
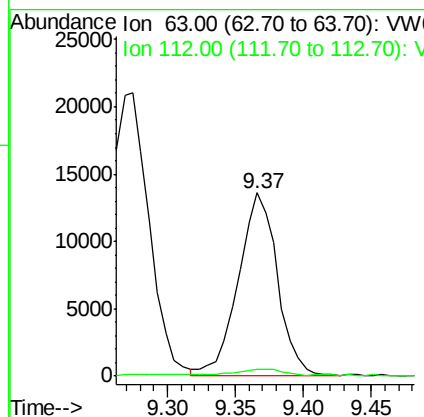
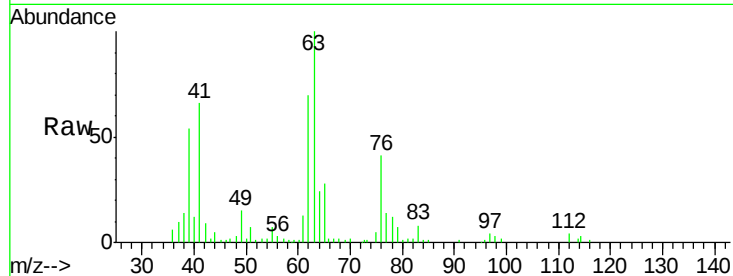
#37
 1,2-Dichloropropane
 Concen: 2.058 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion: 63 Resp: 27499
 Ion Ratio Lower Upper
 63 100
 112 4.6 2.6 4.0#

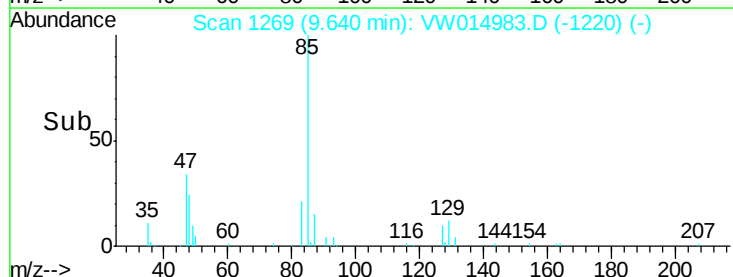
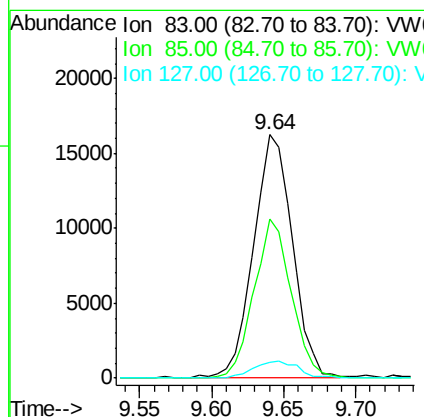
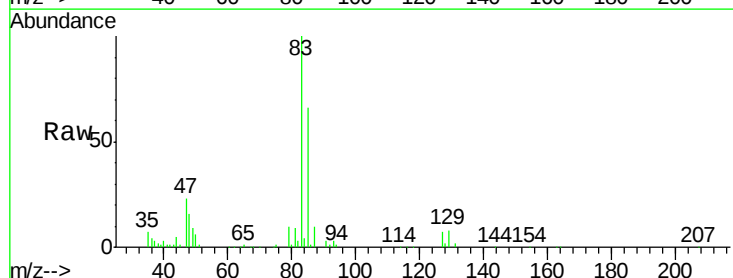
Manual Integrations
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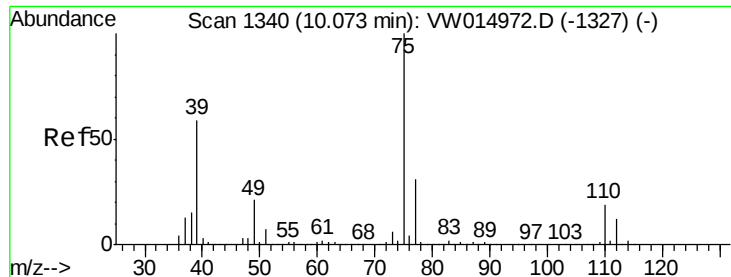
MMDadoda
 2/14/2020 4:29:04 PM



#38
 Bromodichloromethane
 Concen: 2.020 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion: 83 Resp: 30389
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.2 84.0
 127 6.5 5.5 8.3





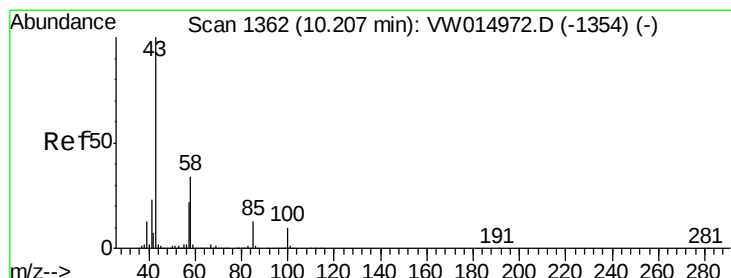
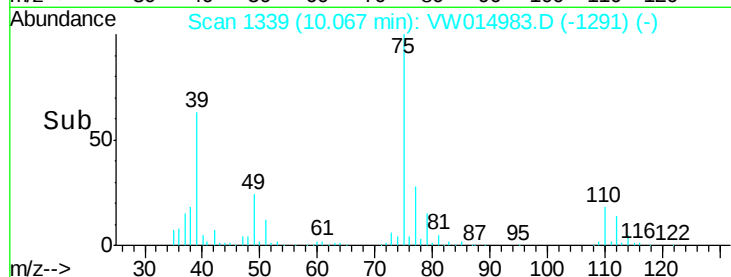
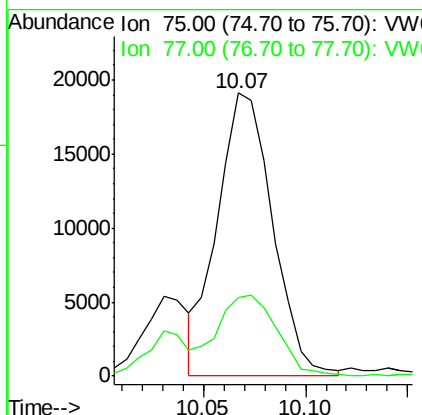
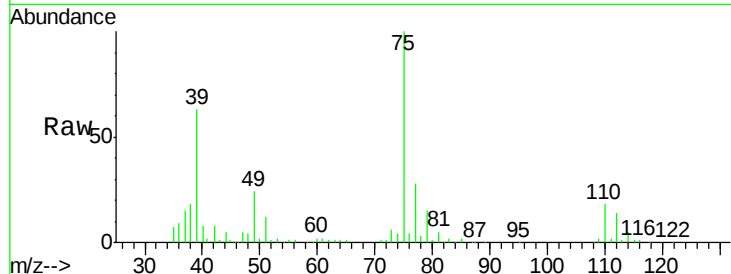
#39
 cis-1,3-Dichloropropene
 Concen: 1.994 ug/L
 RT: 10.07 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 35631
 Ion Ratio Lower Upper
 75 100
 77 27.7 21.6 40.2

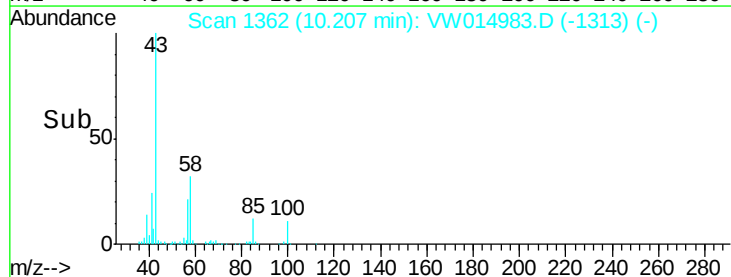
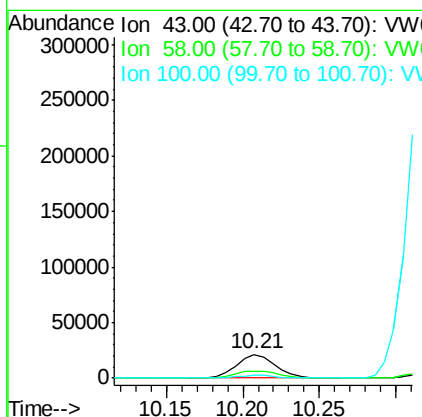
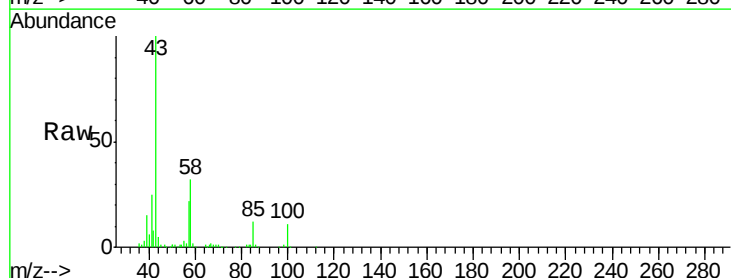
Manual Integrations
 APPROVED

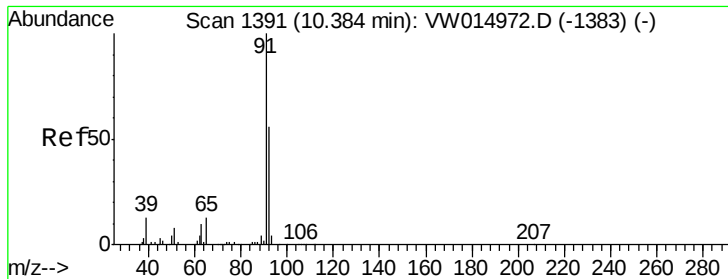
MMDadoda
 2/14/2020 4:29:04 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.958 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion: 43 Resp: 37643
 Ion Ratio Lower Upper
 43 100
 58 34.6 27.7 41.5
 100 11.1 8.6 13.0





#42

Toluene

Concen: 2.106 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 97325

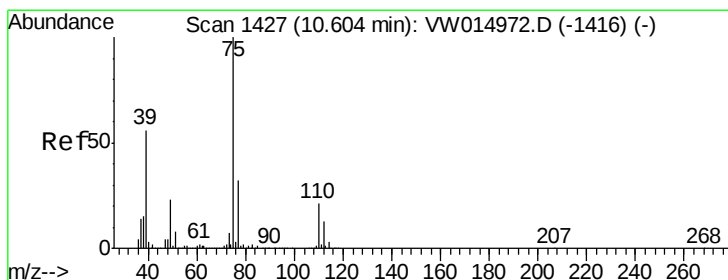
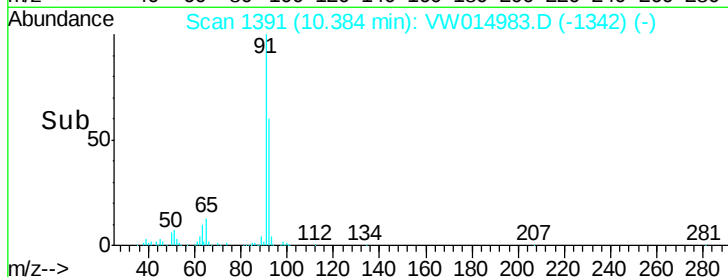
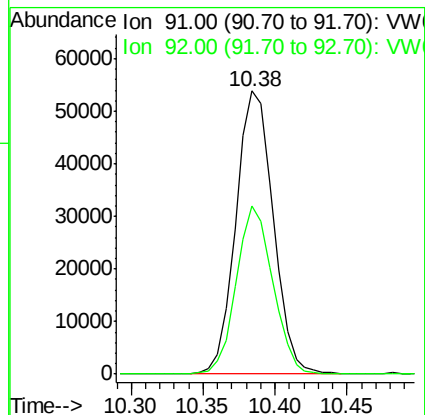
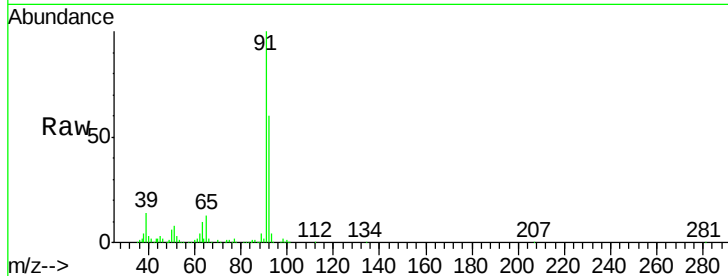
Ion Ratio Lower Upper

91 100

92 59.5 39.5 73.3

Manual Integrations
APPROVED

MMDadoda
2/14/2020 4:29:04 PM



#44

trans-1,3-Dichloropropene

Concen: 1.811 ug/L m

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014983.D

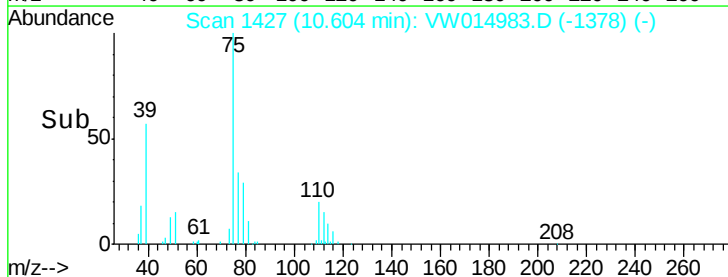
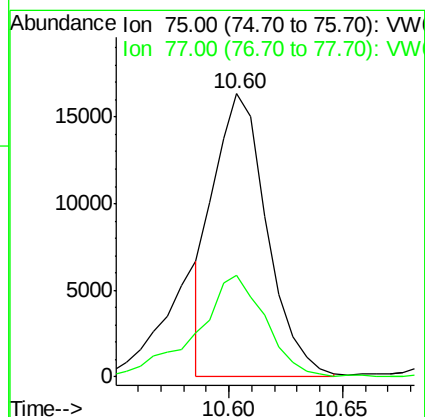
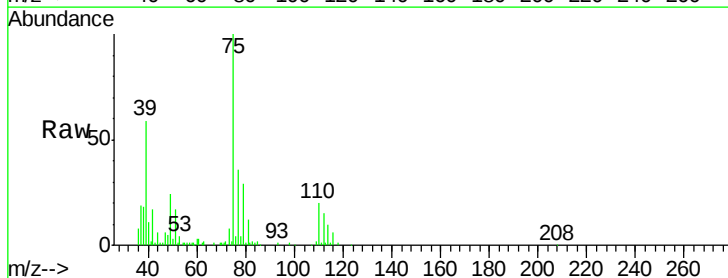
Acq: 13 Feb 2020 16:30

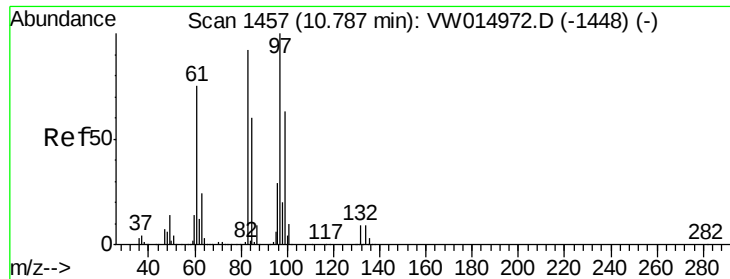
Tgt Ion: 75 Resp: 26858

Ion Ratio Lower Upper

75 100

77 35.8 22.7 42.1





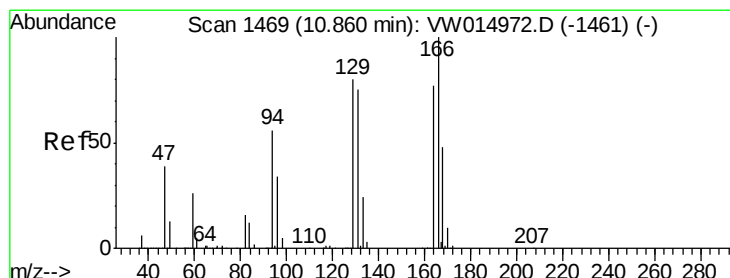
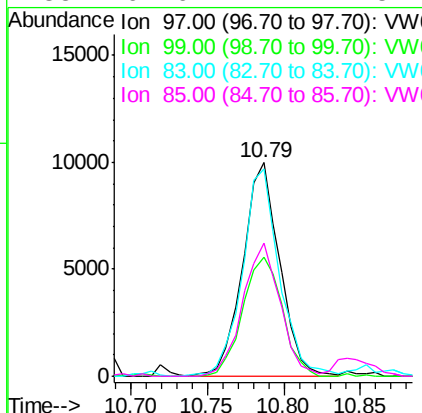
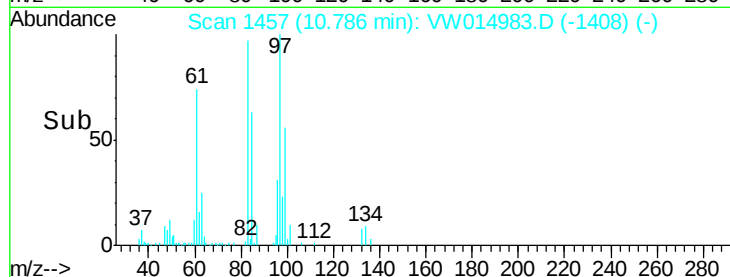
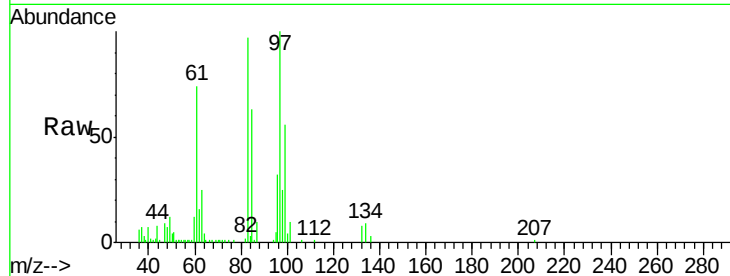
#45
 1,1,2-Trichloroethane
 Concen: 2.067 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		16754		
99	56.0	44.2	82.0		
83	97.2	64.1	119.1		
85	62.6	42.1	78.1		

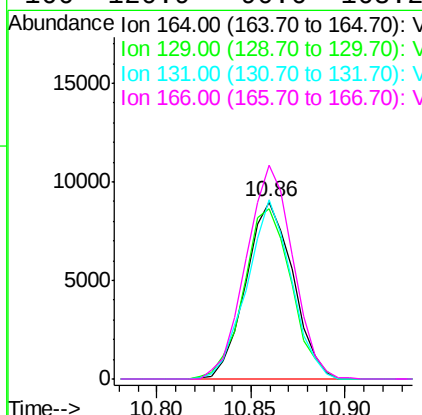
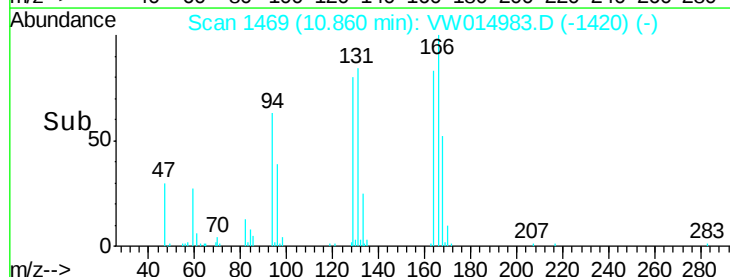
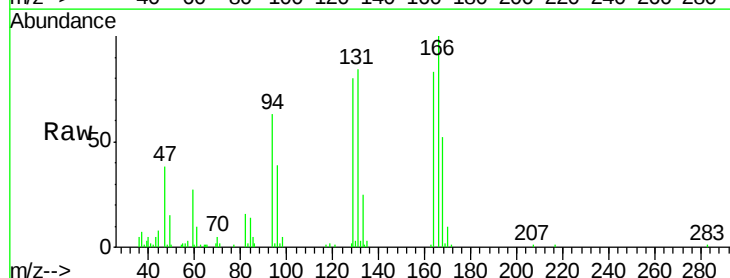
Manual Integrations
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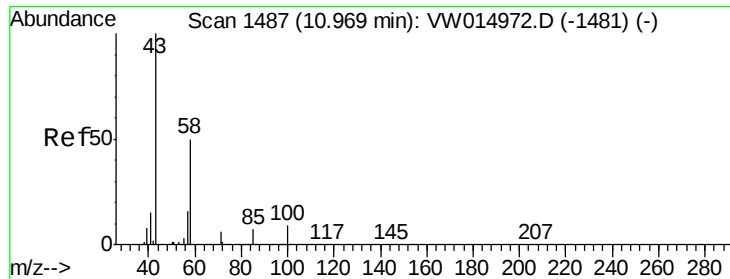
MMDadoda
 2/14/2020 4:29:04 PM



#46
 Tetrachloroethene
 Concen: 2.090 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		15548		
129	96.6	72.2	134.2		
131	101.7	68.1	126.5		
166	120.9	90.6	168.2		





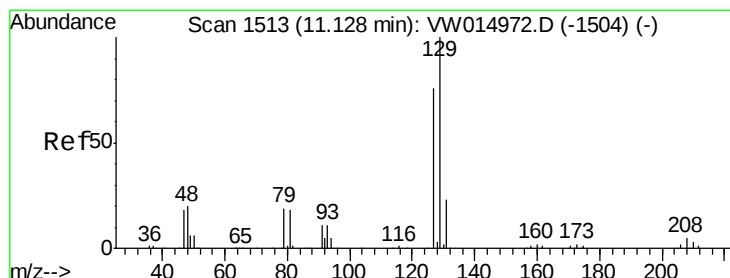
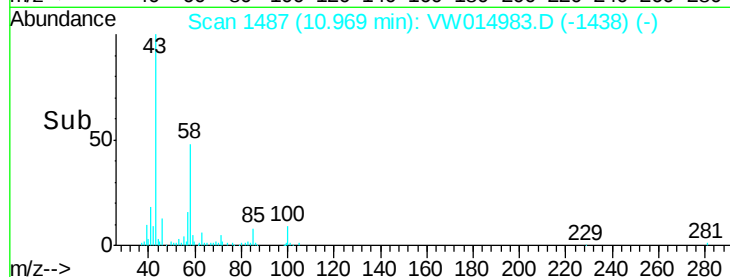
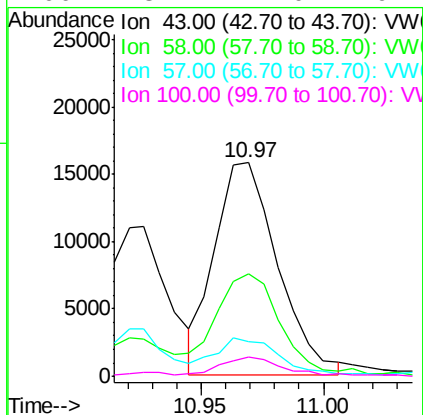
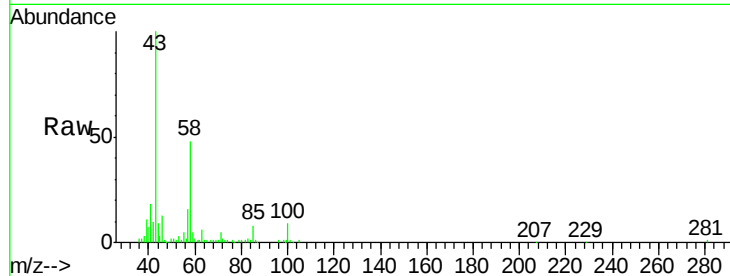
#48
2-Hexanone
Concen: 4.094 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.8	39.2	58.8
57	19.2	13.1	19.7
100	8.7	7.0	10.4

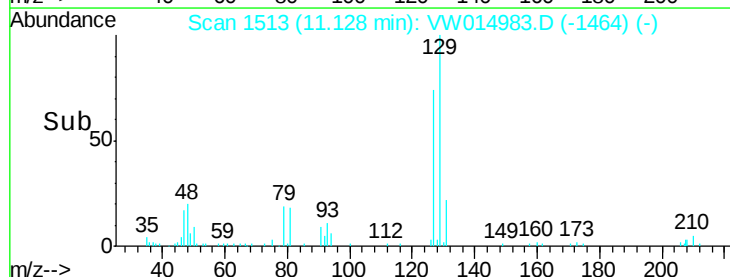
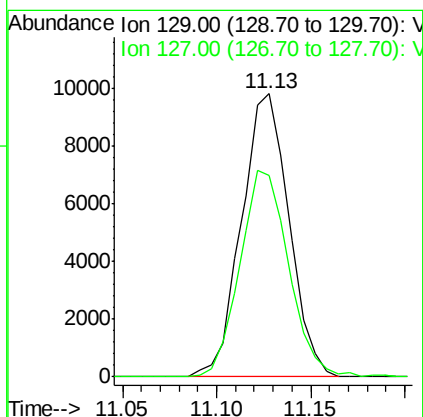
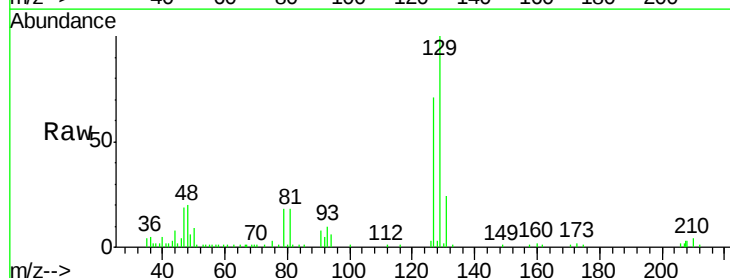
Manual Integrations
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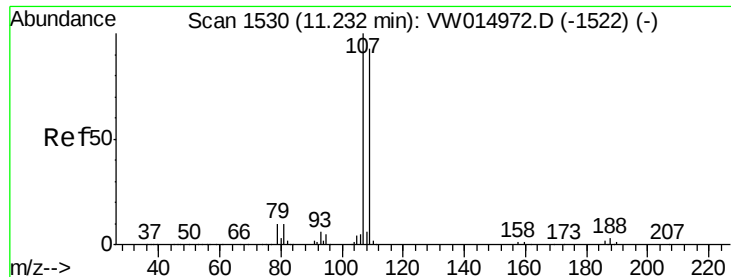
MMDadoda
2/14/2020 4:29:04 PM



#49
Dibromochloromethane
Concen: 2.025 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	71.2	53.0	98.4





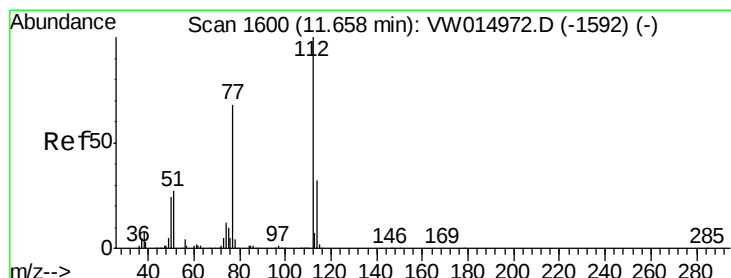
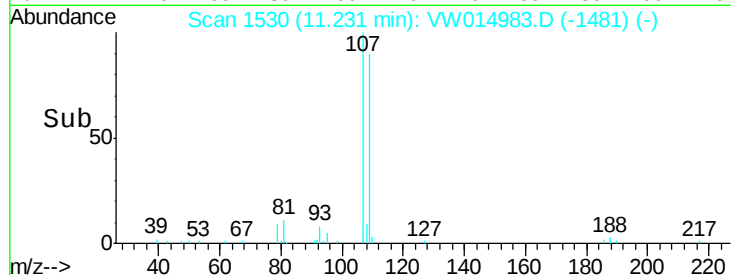
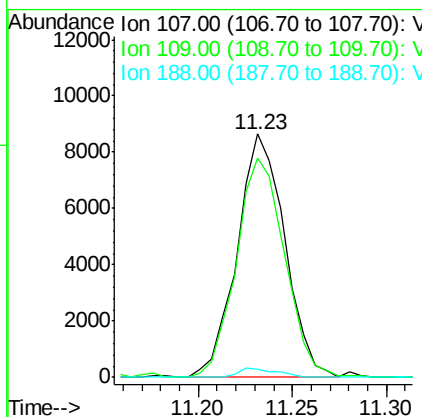
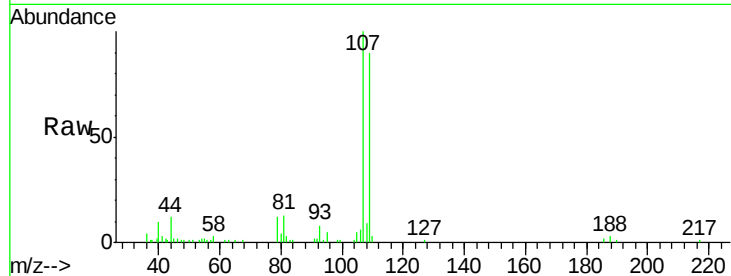
#50
1,2-Dibromoethane
Concen: 2.072 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.0	65.1	120.9
188	3.3	2.4	3.6

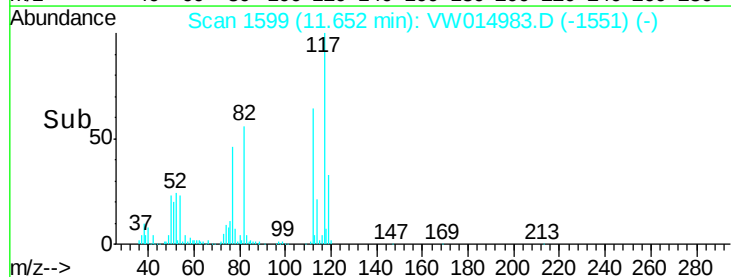
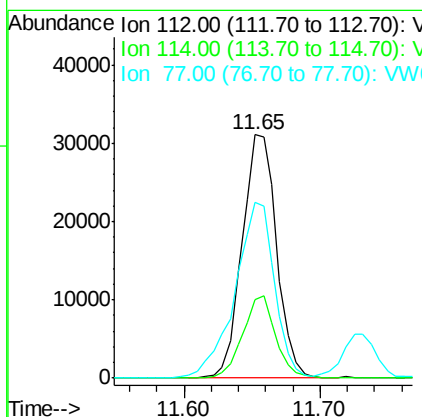
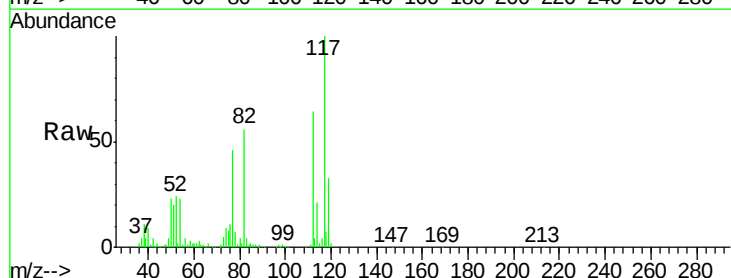
Manual Integrations
APPROVED

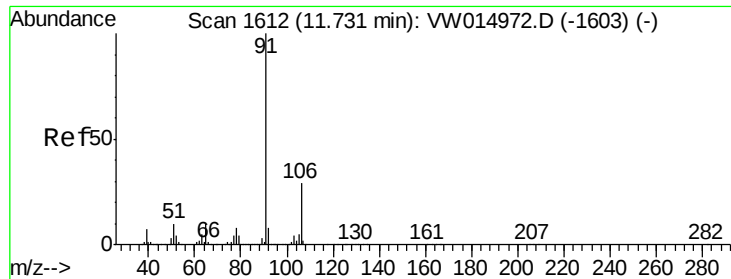
MMDadoda
2/14/2020 4:29:04 PM



#51
Chlorobenzene
Concen: 2.020 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.6	42.0
77	72.2	54.6	82.0





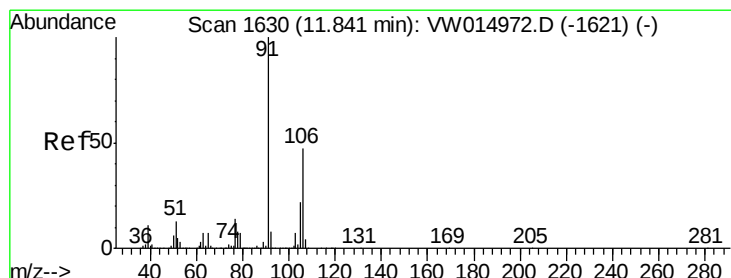
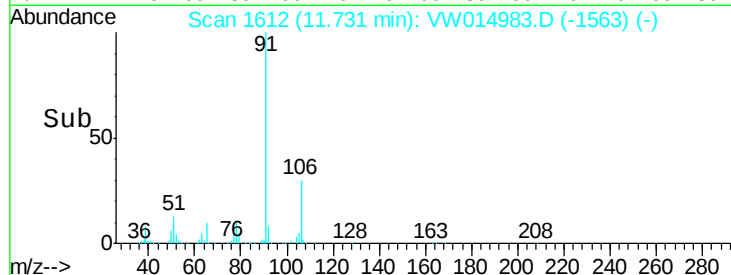
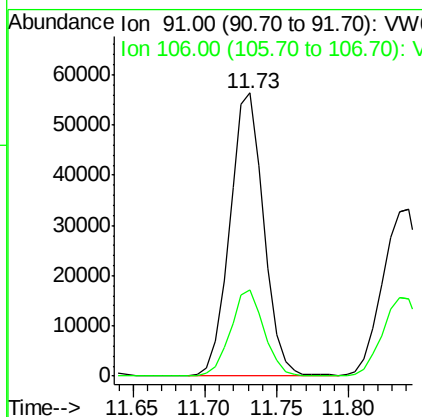
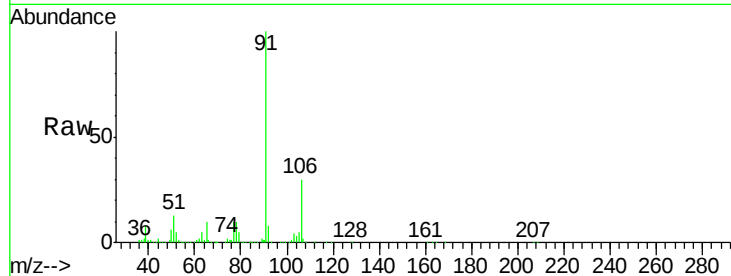
#52
Ethylbenzene
Concen: 1.839 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion: 91 Resp: 92604
Ion Ratio Lower Upper
91 100
106 30.3 20.2 37.4

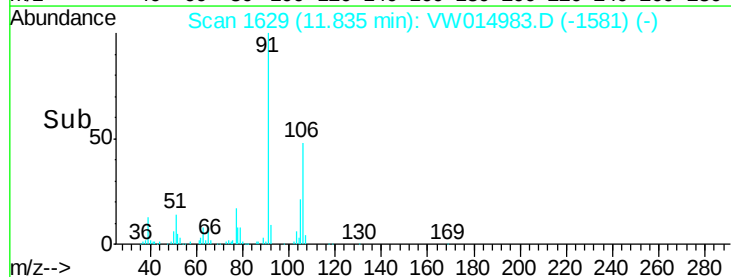
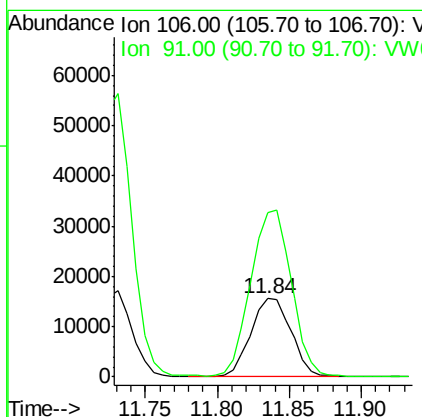
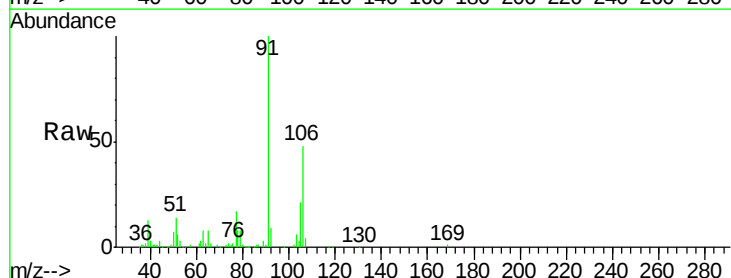
Manual Integrations
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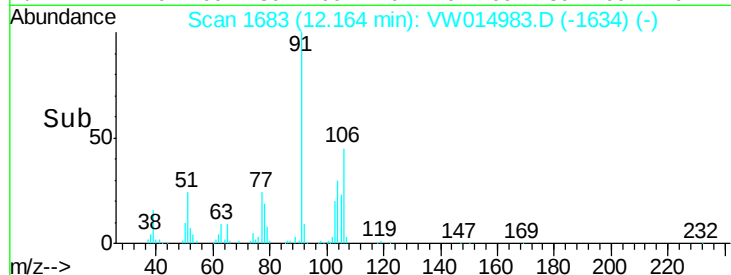
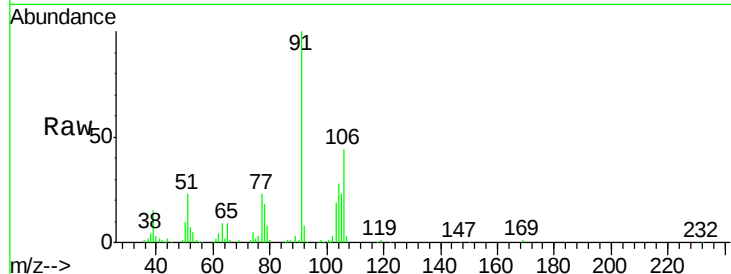
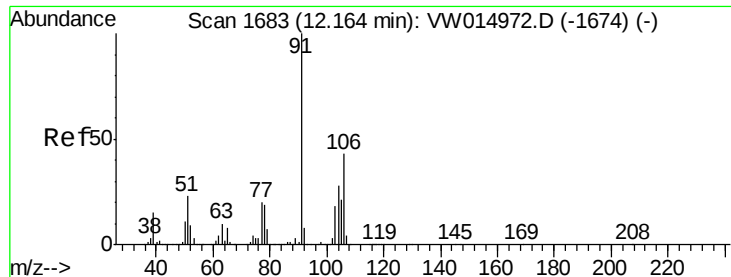
MMDadoda
2/14/2020 4:29:04 PM



#53
m,p-Xylene
Concen: 1.716 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion: 106 Resp: 30306
Ion Ratio Lower Upper
106 100
91 209.2 149.2 277.2





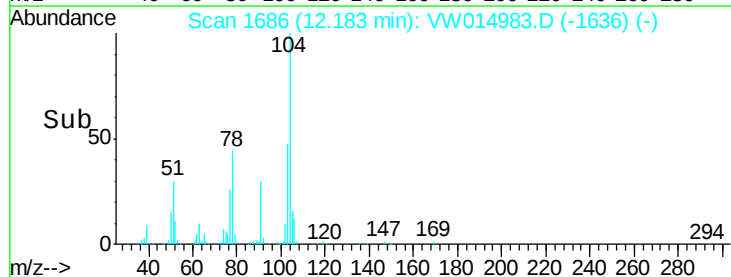
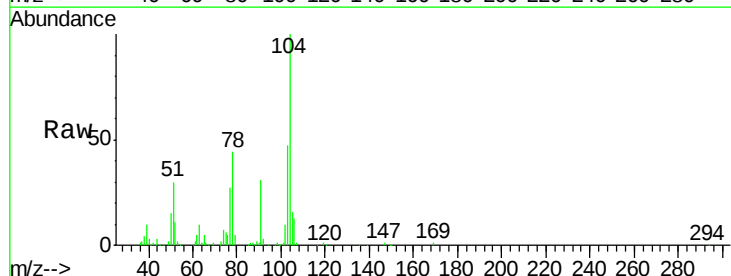
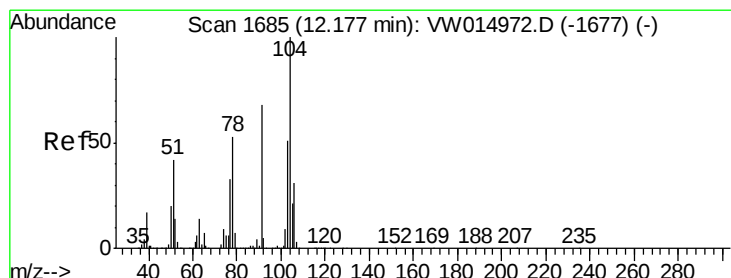
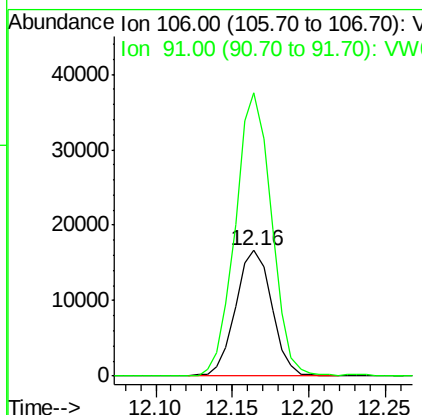
#54
o-Xylene
Concen: 1.654 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tot Ion:106 Resp: 27432
Ion Ratio Lower Upper
106 100
91 225.3 163.7 304.1

Instrument :
MSVOA_W
ClientSampled :
MDL02

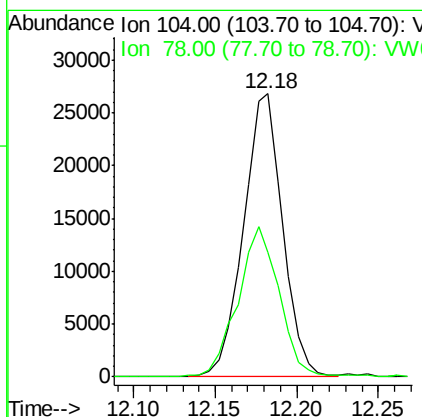
Manual Integrations
APPROVED

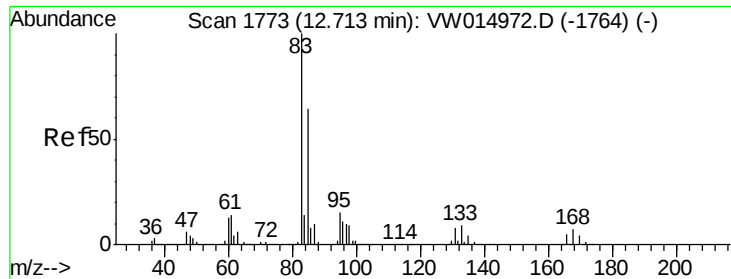
MMDadoda
2/14/2020 4:29:04 PM



#55
Styrene
Concen: 1.567 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion:104 Resp: 44800
Ion Ratio Lower Upper
104 100
78 44.0 36.8 68.4





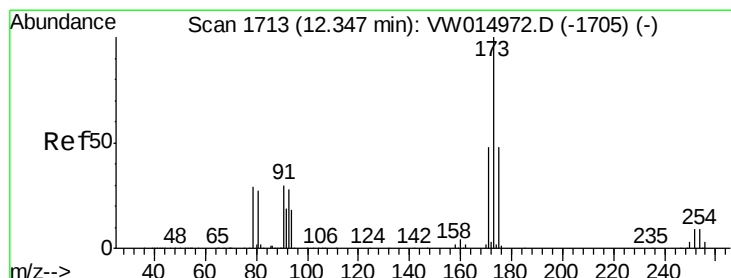
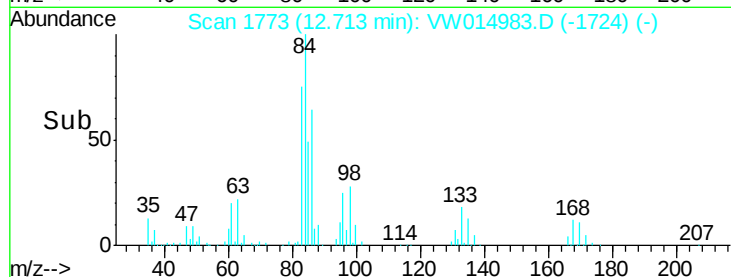
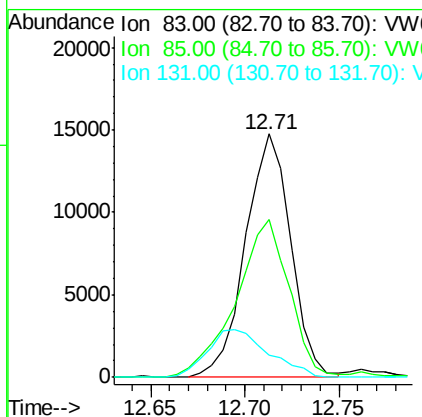
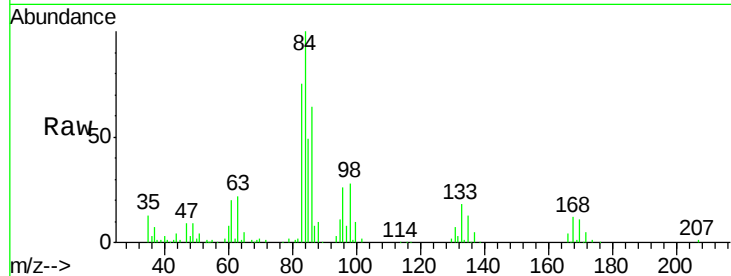
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.271 ug/L
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.9	83.5
131	9.2	6.2	9.2

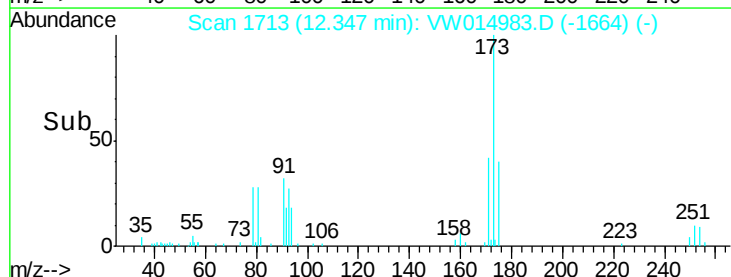
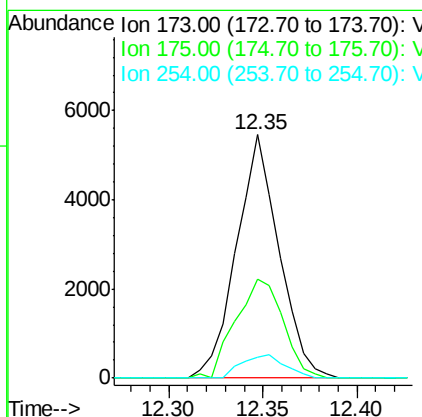
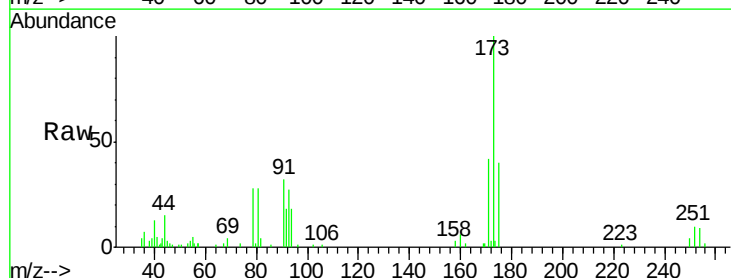
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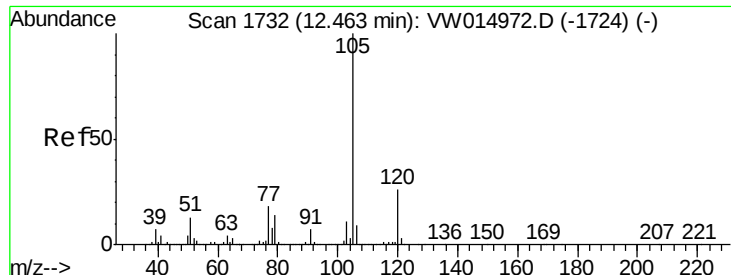
MMDadoda
 2/14/2020 4:29:04 PM



#59
 Bromoform
 Concen: 2.118 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
173	100		
175	45.0	39.0	58.4
254	9.7	7.1	10.7





#60

Isopropylbenzene

Concen: 1.718 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Instrument :

MSVOA_W

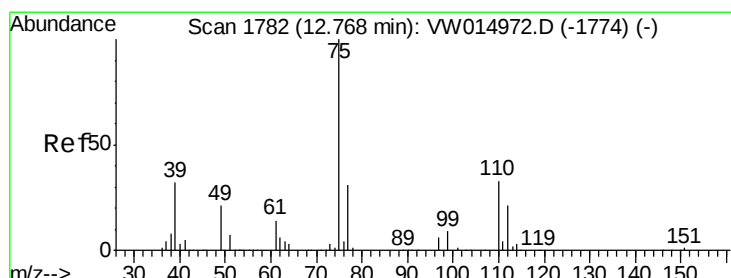
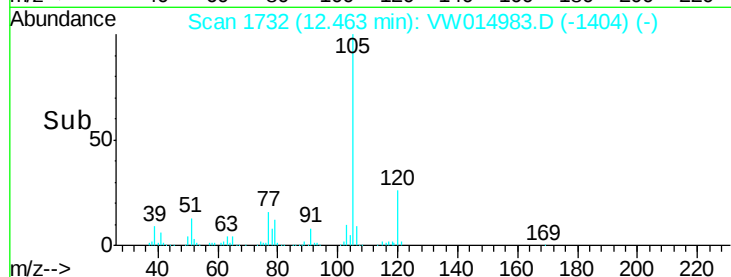
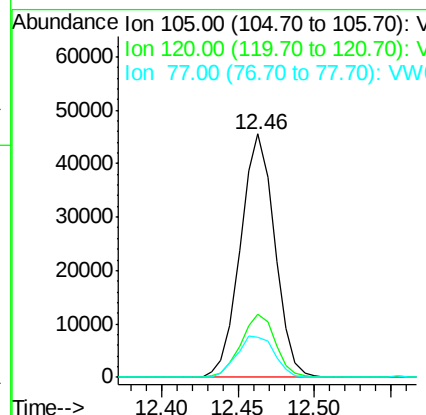
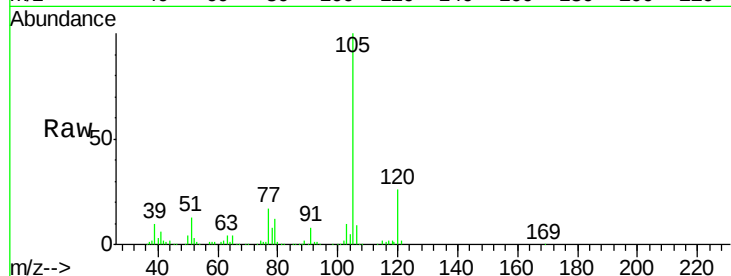
ClientSampled :

MDL02

Tot Ion:	105	Resp:	71047
Ion Ratio	Lower	Upper	
105	100		
120	26.1	20.1	30.1
77	19.0	14.4	21.6

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#61

1,2,3-Trichloropropane

Concen: 2.253 ug/L

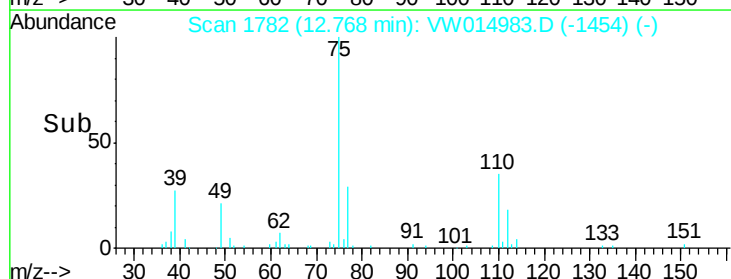
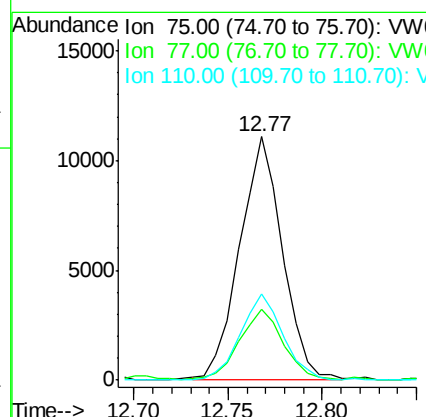
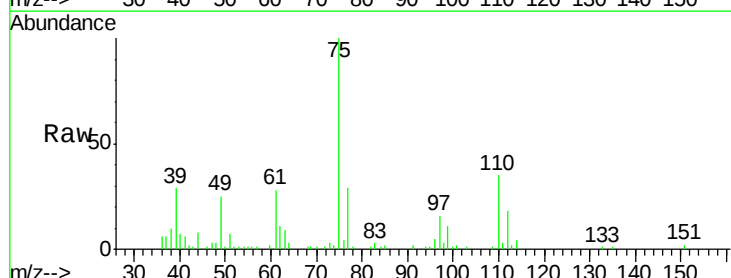
RT: 12.77 min Scan# 1782

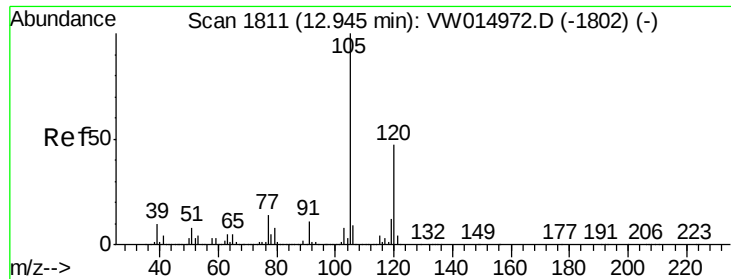
Delta R.T. -0.00 min

Lab File: VW014983.D

Acq: 13 Feb 2020 16:30

Tgt Ion:	75	Resp:	17441
Ion Ratio	Lower	Upper	
75	100		
77	30.2	25.8	38.6
110	34.9	26.6	39.8





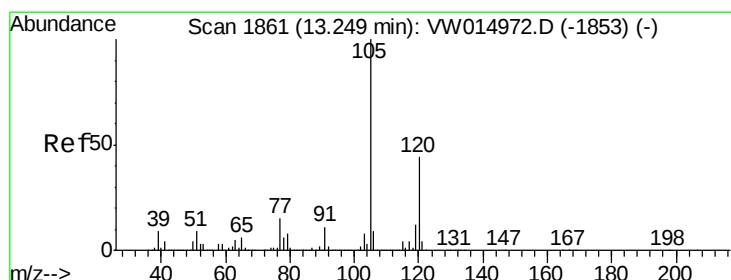
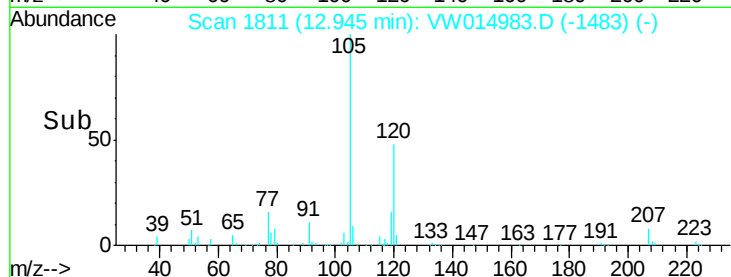
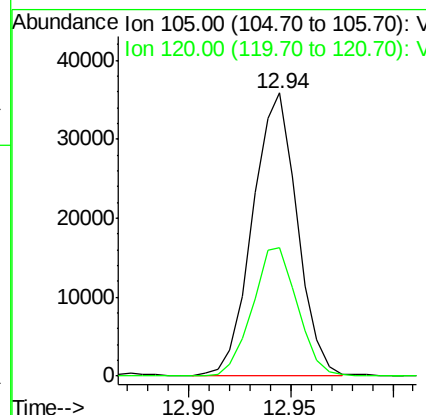
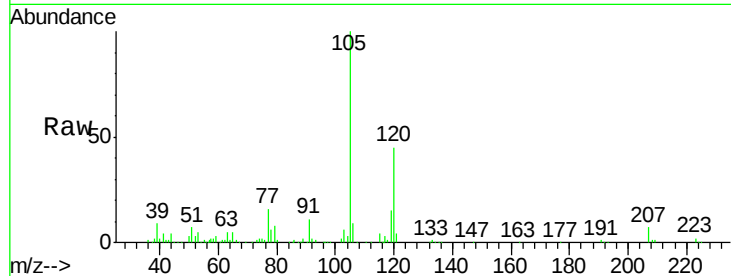
#62
 1,3,5-Trimethylbenzene
 Concen: 1.648 ug/L
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

Tot Ion:105 Resp: 54340
 Ion Ratio Lower Upper
 105 100
 120 45.9 37.4 56.0

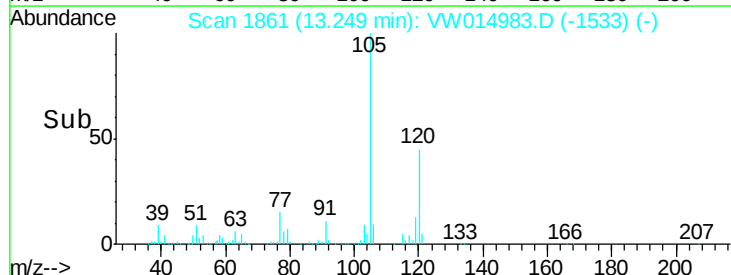
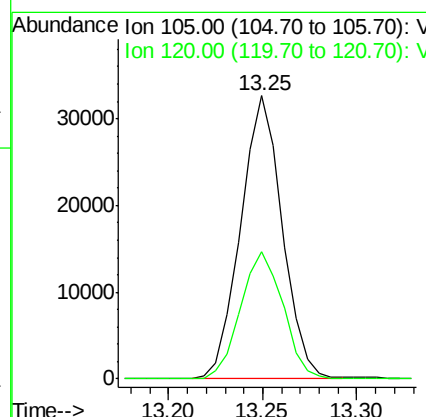
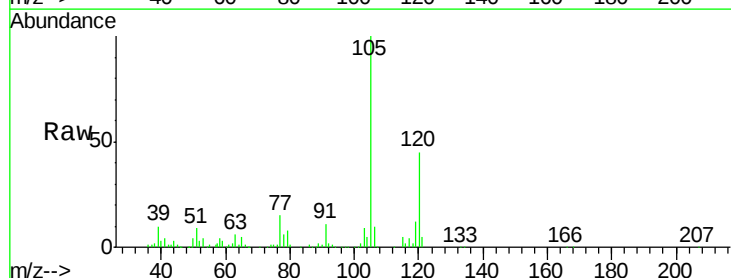
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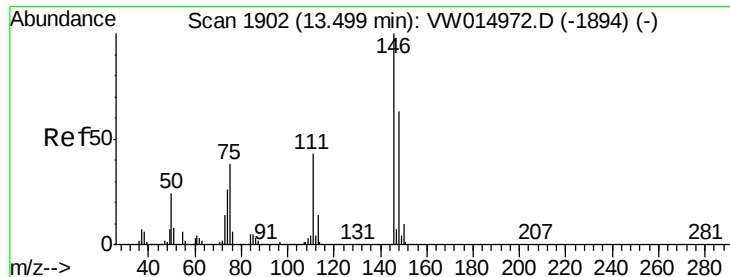
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.551 ug/L
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion:105 Resp: 50038
 Ion Ratio Lower Upper
 105 100
 120 45.9 35.0 52.4





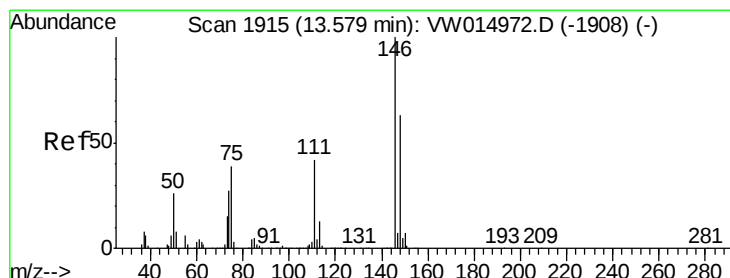
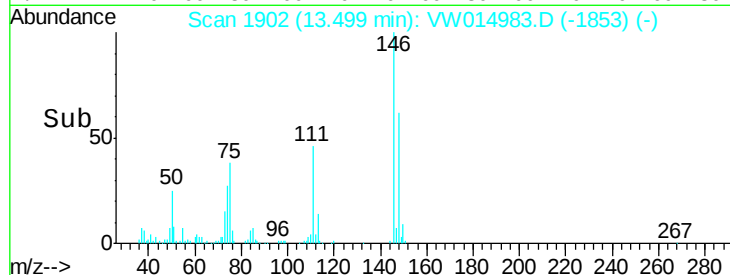
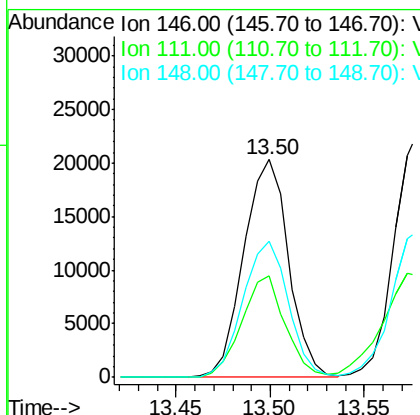
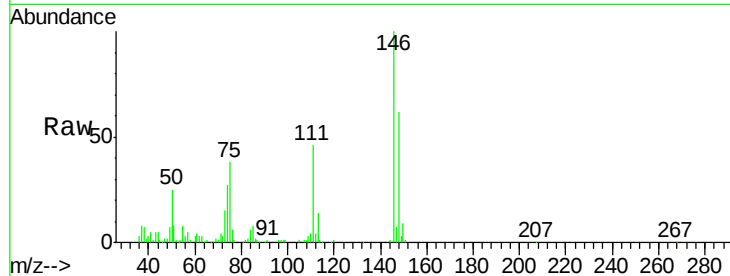
#64
1,3-Dichlorobenzene
Concen: 1.967 ug/L
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.4	30.2	56.0
148	62.4	44.2	82.2

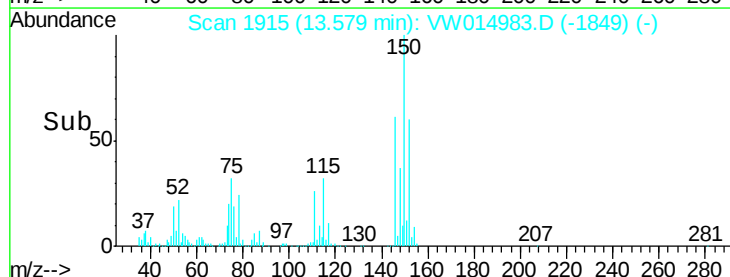
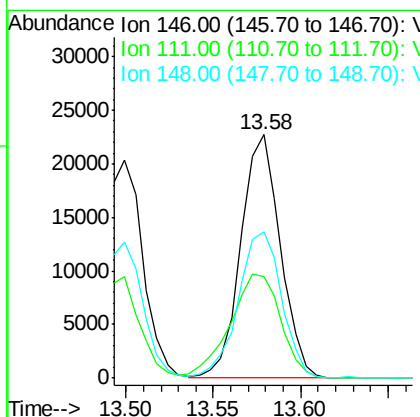
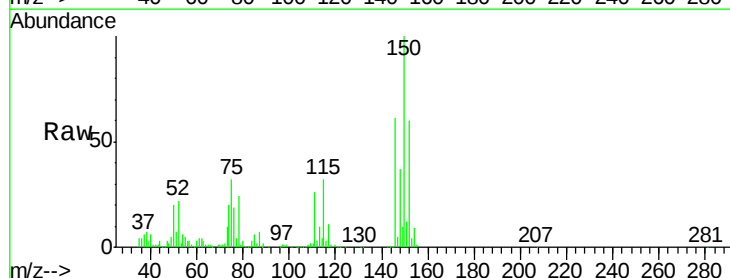
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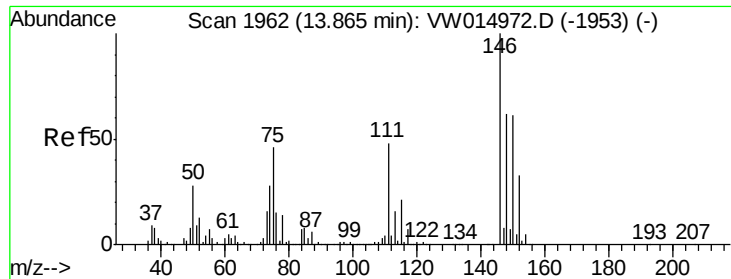
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#65
1,4-Dichlorobenzene
Concen: 2.033 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	29.5	54.9
148	60.1	43.8	81.3





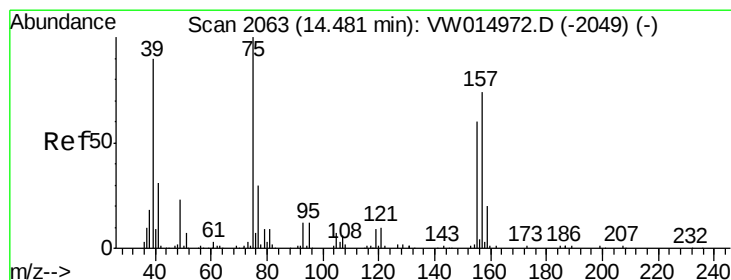
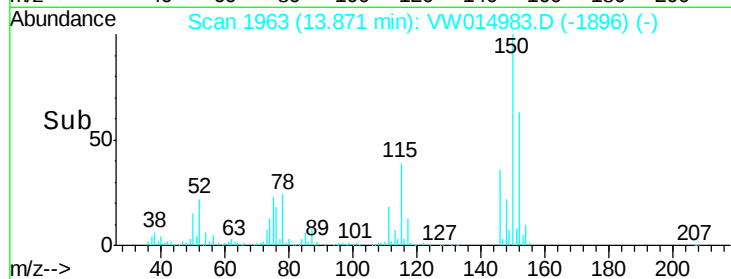
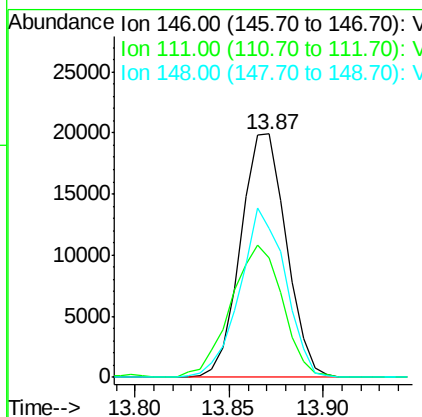
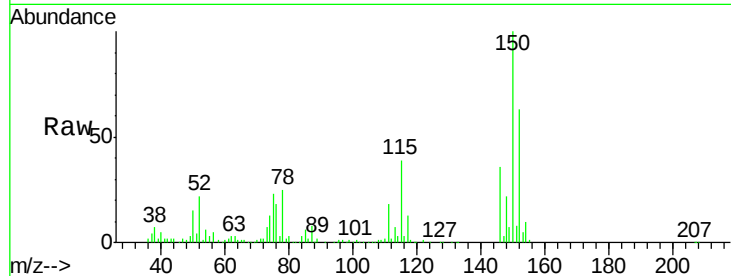
#67
 1,2-Dichlorobenzene
 Concen: 2.121 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.0	38.0	57.0
148	61.3	49.5	74.3

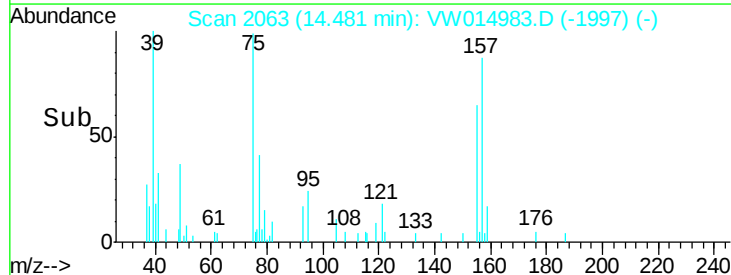
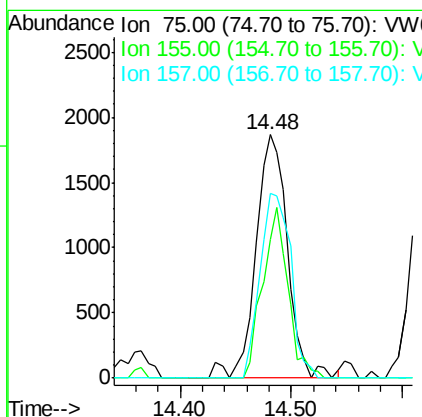
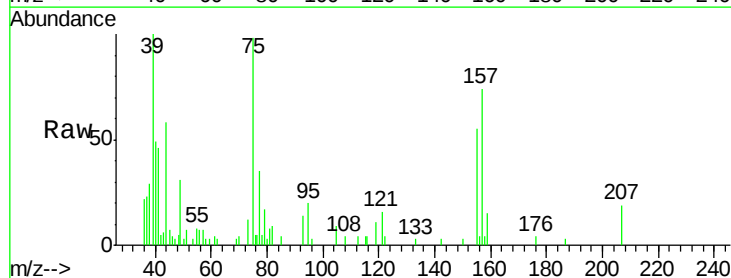
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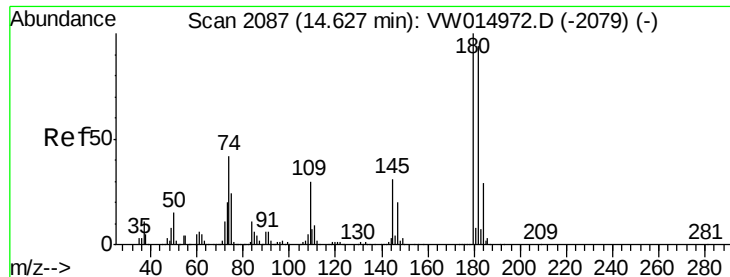
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.280 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	56.7	48.0	72.0
157	75.6	59.4	89.0





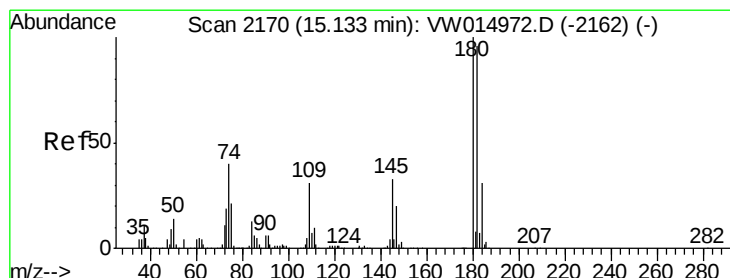
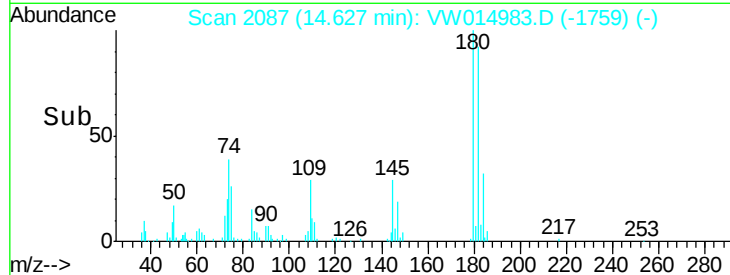
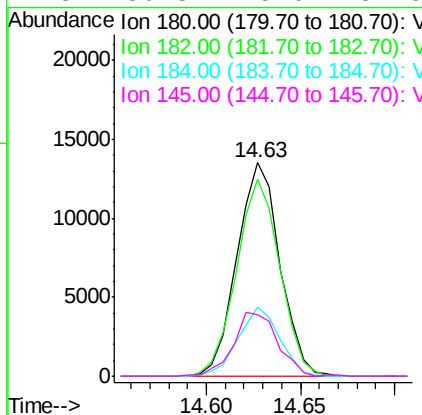
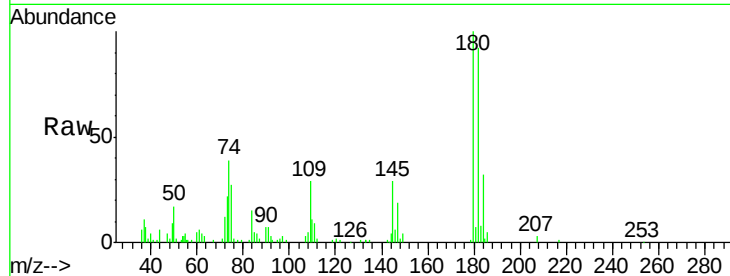
#69
 1,3,5-Trichlorobenzene
 Concen: 1.866 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.8	76.5	114.7
184	31.4	24.2	36.2
145	30.8	25.0	37.6

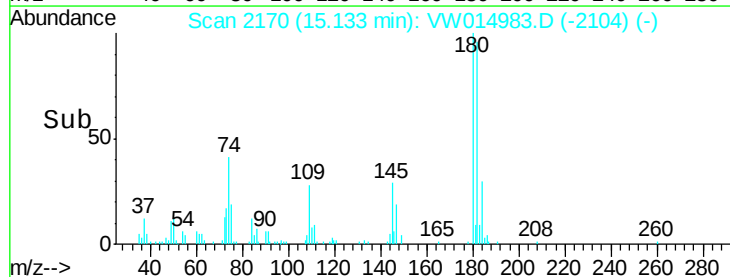
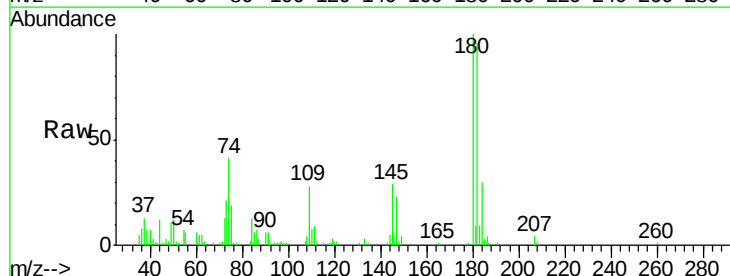
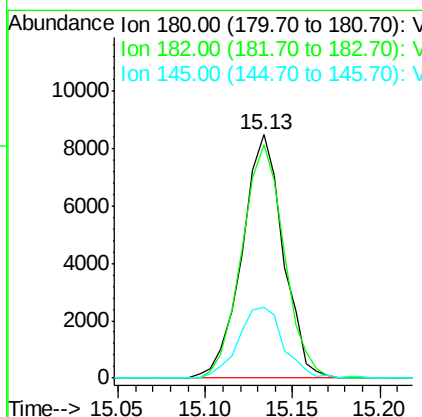
Manual Integrations
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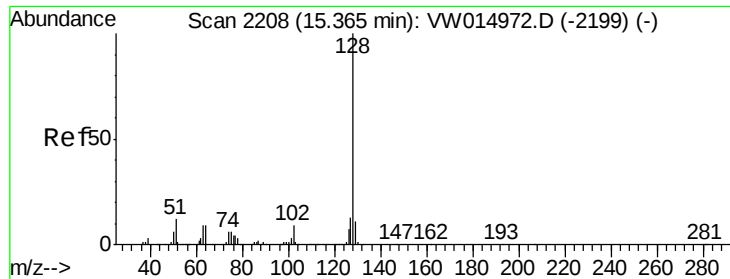
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#70
 1,2,4-trichlorobenzene
 Concen: 1.623 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014983.D
 Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.5	76.2	114.4
145	31.9	26.2	39.4





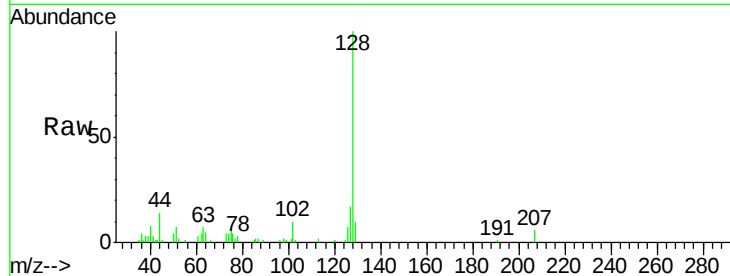
#71
Naphthalene
Concen: 1.471 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Instrument :
MSVOA_W
ClientSampled :
MDL02

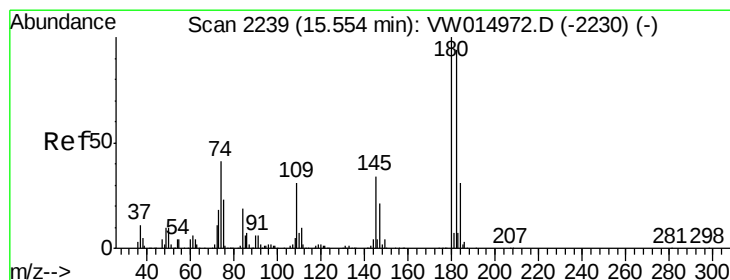
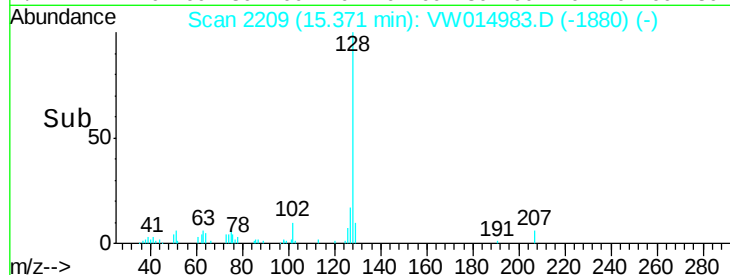
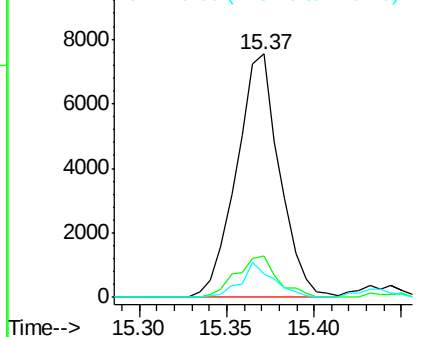
Tot Ion	Ratio	Lower	Upper
128	100		
127	16.1	10.5	15.7#
129	10.9	8.6	12.8

Manual Integrations
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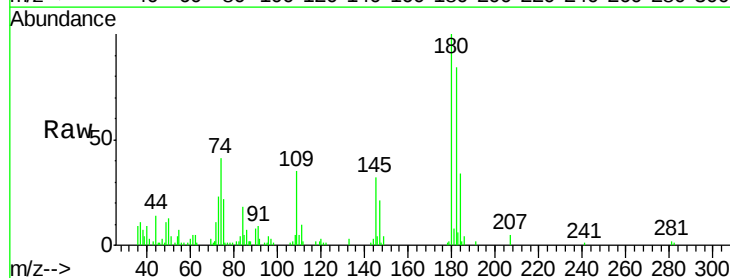


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 1.708 ug/L
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW014983.D
Acq: 13 Feb 2020 16:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.5	75.2	112.8
145	33.4	27.0	40.6



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

