

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092619\
 Data File : VW013306.D
 Acq On : 26 Sep 2019 14:52
 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
 10/9/2019 2:13:14 PM

Quant Time: Sep 27 08:31:25 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	404708	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	360603	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	176722	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	133207	27.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.40%
7) Chloroethane-d5	2.89	69	102004	26.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.32%
10) 1,1-Dichloroethene-d2	4.01	63	194668	20.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.96%
20) 2-Butanone-d5	7.07	46	104727	62.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.58%
24) Chloroform-d	7.65	84	227619	24.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.76%
26) 1,2-Dichloroethane-d4	8.31	65	127134	25.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.16%
29) Benzene-d6	8.27	84	508310	25.96	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.84%
33) 1,2-Dichloropropane-d6	9.27	67	149583	25.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.56%
37) Toluene-d8	10.32	98	473172	25.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.64%
38) trans-1,3-Dichloropropene-	10.58	79	64887	24.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.00%
39) 2-Hexanone-d5	10.93	63	79647	62.39	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.78%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	137991	27.85	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	111.40%
61) 1,2-Dichlorobenzene-d4	13.85	152	165552	26.22	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	3992m	1.576	ug/L	
3) Chloromethane	2.21	50	6789	2.000	ug/L	91
5) Vinyl chloride	2.36	62	9606	2.047	ug/L #	63
6) Bromomethane	2.78	94	6266	2.100	ug/L	96
8) Chloroethane	2.92	64	5848	2.054	ug/L	94
9) Trichlorofluoromethane	3.25	101	4702	1.616	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	10966	2.385	ug/L #	82
12) 1,1-Dichloroethene	4.03	96	10226m	2.192	ug/L	
13) Acetone	4.13	43	7491	5.396	ug/L	91
14) Carbon disulfide	4.38	76	25141	1.898	ug/L	99
15) Methyl Acetate	4.68	43	6712	2.506	ug/L #	69
16) Methylene chloride	4.90	84	15062m	2.491	ug/L	
17) Methyl tert-butyl Ether	5.43	73	15972	1.979	ug/L #	75
18) trans-1,2-Dichloroethene	5.42	96	9643	1.933	ug/L	91
19) 1,1-Dichloroethane	6.21	63	16989	1.942	ug/L	98
21) 2-Butanone	7.18	43	10327	5.165	ug/L	84
22) cis-1,2-Dichloroethene	7.17	96	10693	1.967	ug/L	98

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

23) Bromochloromethane	7.51	128	5063	2.070	ug/L	77
25) Chloroform	7.67	83	17712	2.060	ug/L	94
27) 1,2-Dichloroethane	8.40	62	11891	2.112	ug/L	98
30) Cyclohexane	7.95	56	17172	1.983	ug/L #	91
31) 1,1,1-Trichloroethane	7.87	97	13651	1.972	ug/L	98
32) Carbon tetrachloride	8.07	117	12445	1.886	ug/L	100
34) Benzene	8.32	78	40427m	2.000	ug/L	
35) Trichloroethene	9.09	95	10080	1.898	ug/L	92
36) Methylcyclohexane	9.33	83	18196	1.923	ug/L	97
40) 1,2-Dichloropropane	9.37	63	9696	1.949	ug/L	97
41) Bromodichloromethane	9.65	83	11794	1.933	ug/L	91
42) cis-1,3-Dichloropropene	10.07	75	15276	1.923	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	17534	4.605	ug/L #	94
44) Toluene	10.39	91	45785	2.080	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	13362m	2.092	ug/L	
46) 1,1,2-Trichloroethane	10.79	97	7657	1.965	ug/L	97
47) Tetrachloroethene	10.86	164	9819	2.055	ug/L	93
49) 2-Hexanone	10.97	43	12057	4.405	ug/L	98
50) Dibromochloromethane	11.13	129	8263	1.849	ug/L	95
51) 1,2-Dibromoethane	11.24	107	7482	1.954	ug/L #	94
52) Chlorobenzene	11.66	112	27806	2.005	ug/L	94
53) Ethylbenzene	11.73	91	46967	1.925	ug/L	93
54) m,p-Xylene	11.84	106	19179	2.047	ug/L	98
55) o-xylene	12.16	106	16911	1.913	ug/L	94
56) Styrene	12.18	104	27915	1.842	ug/L	98
57) Isopropylbenzene	12.46	105	45564	1.906	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	11340	2.362	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	7916	2.210	ug/L	94
62) Bromoform	12.35	173	5146	1.841	ug/L	93
63) 1,3-Dichlorobenzene	13.50	146	22054	2.028	ug/L	91
64) 1,4-Dichlorobenzene	13.58	146	22427	2.041	ug/L	94
65) 1,2-Dichlorobenzene	13.87	146	20509	2.073	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	1773	2.275	ug/L #	86
67) 1,3,5-Trichlorobenzene	14.63	180	16037	1.915	ug/L	97
68) 1,2,4-trichlorobenzene	15.13	180	11925	1.784	ug/L	98
69) Naphthalene	15.37	128	21898	1.715	ug/L	98
70) 1,2,3-Trichlorobenzene	15.55	180	11519	1.895	ug/L	98

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

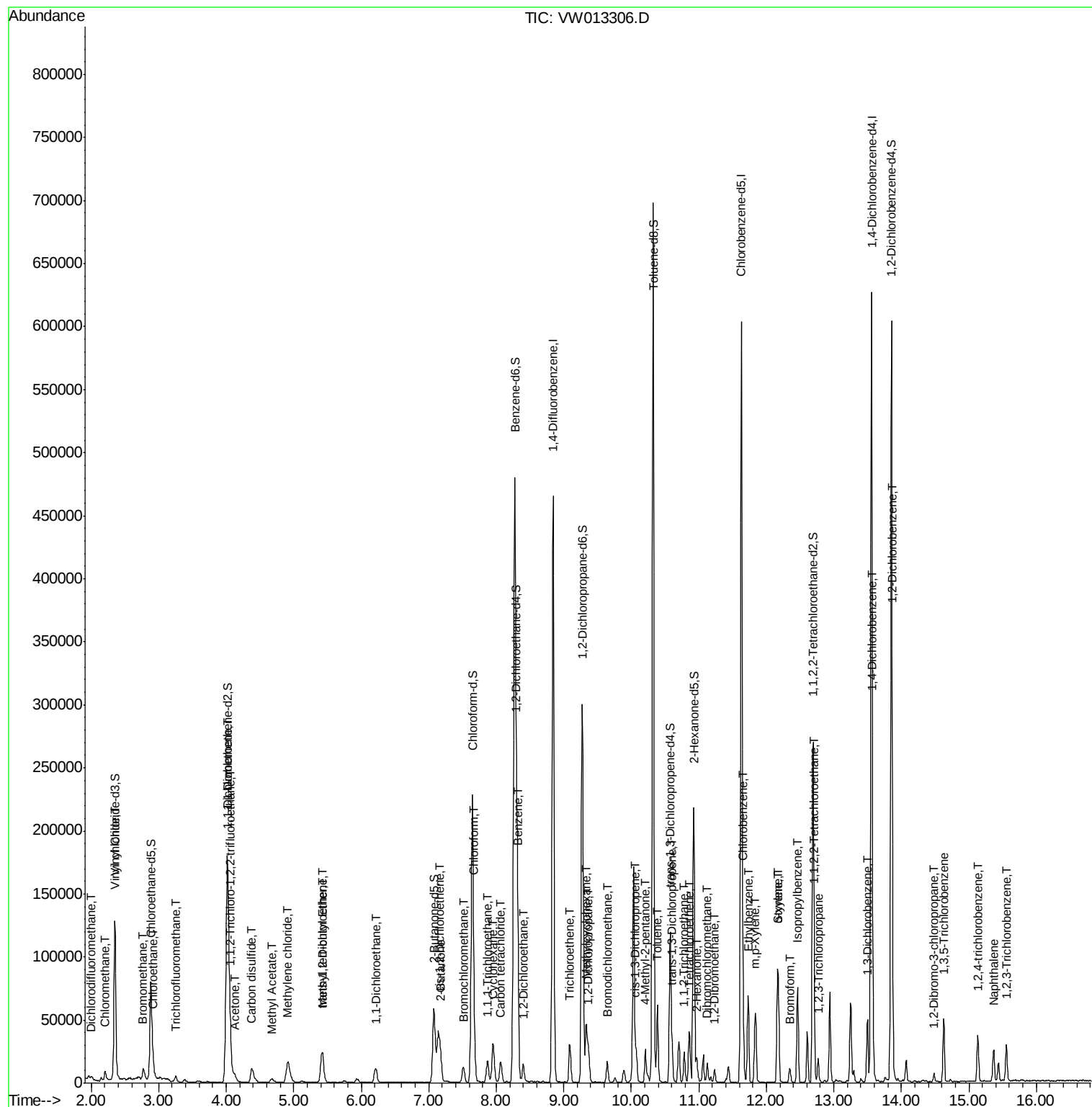
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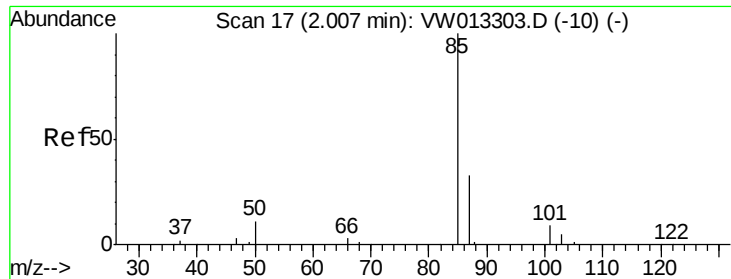
Instrument :
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ClientSampleId :
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#2

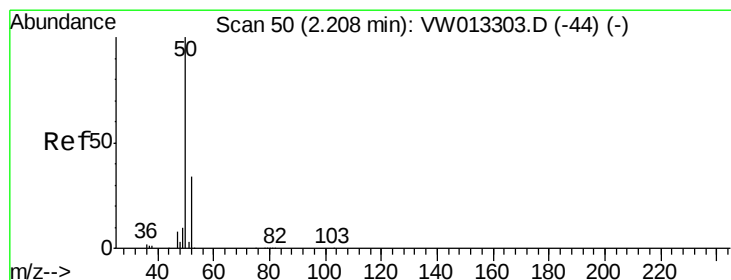
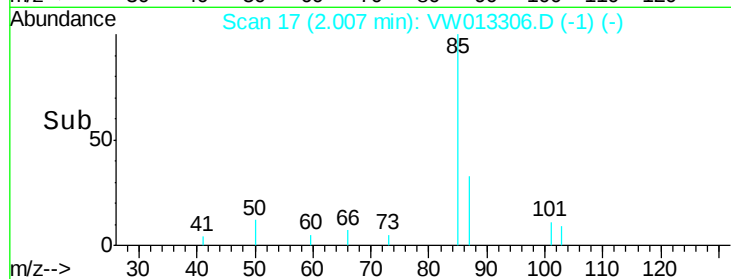
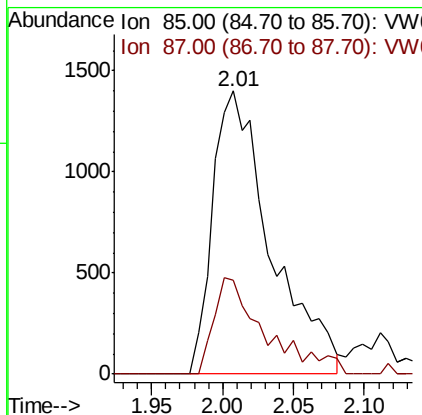
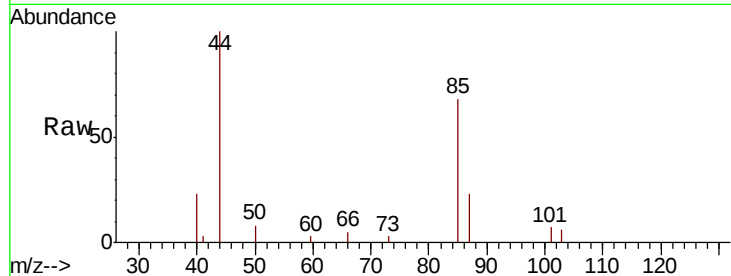
Dichlorodifluoromethane
Concen: 1.576 ug/L m
RT: 2.01 min Scan# 17
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion	85	Resp	3992
Ion Ratio	100	Lower	Upper
87	26.9	21.3	39.6

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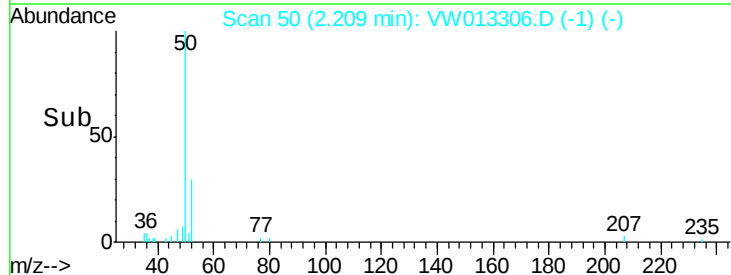
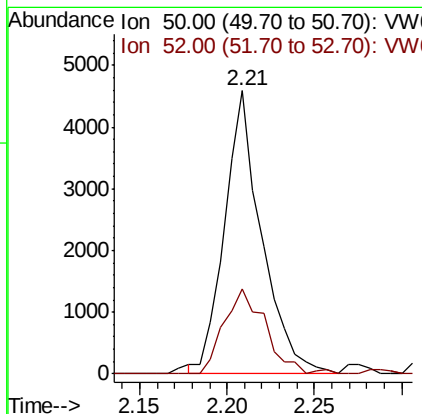
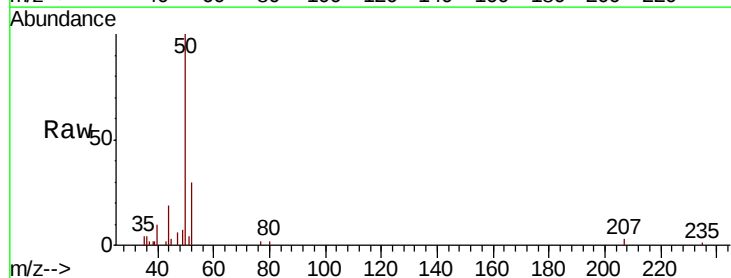
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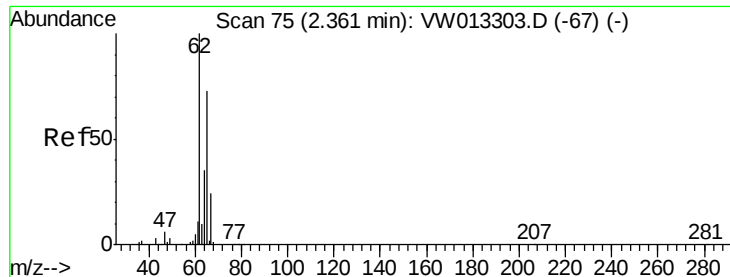


#3

Chloromethane
Concen: 2.000 ug/L
RT: 2.21 min Scan# 50
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion	50	Resp	6789
Ion Ratio	100	Lower	Upper
52	29.9	24.4	45.4





#5

Vinyl chloride

Concen: 2.047 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

Tot Ion: 62 Resp: 9606

Ion Ratio Lower Upper

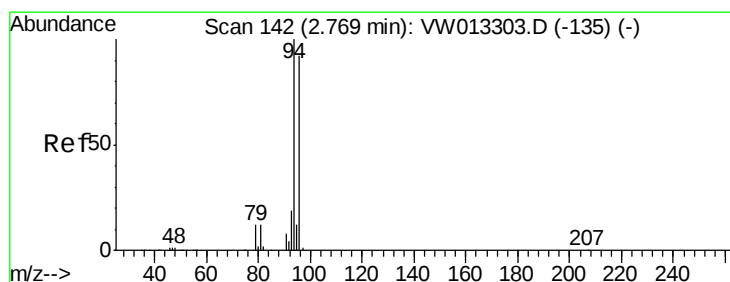
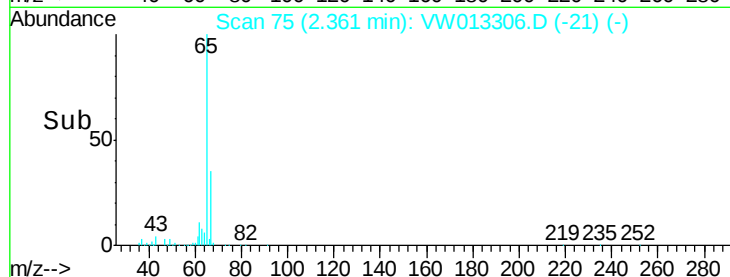
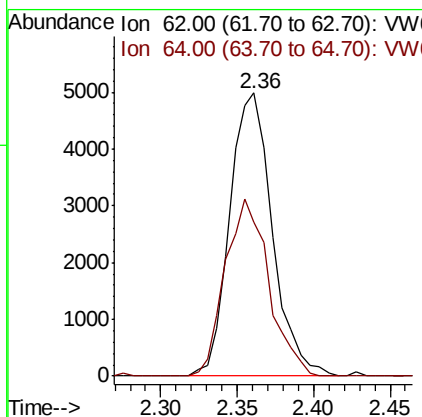
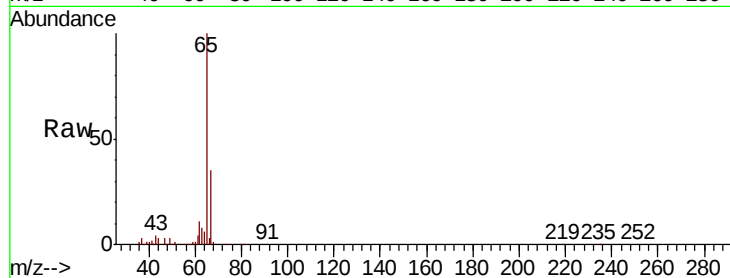
62 100

64 54.3 23.2 43.0#

Manual Integrations
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#6

Bromomethane

Concen: 2.100 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013306.D

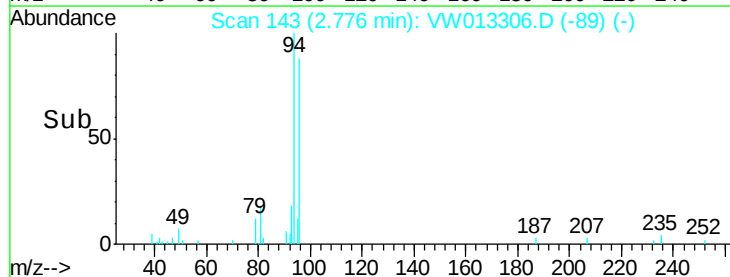
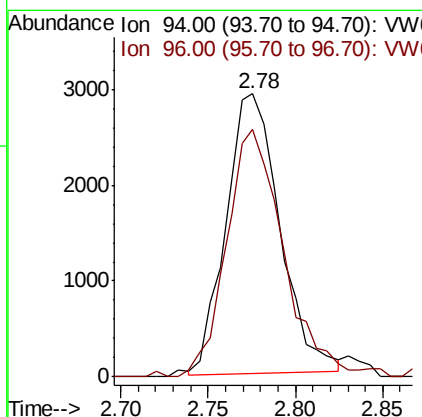
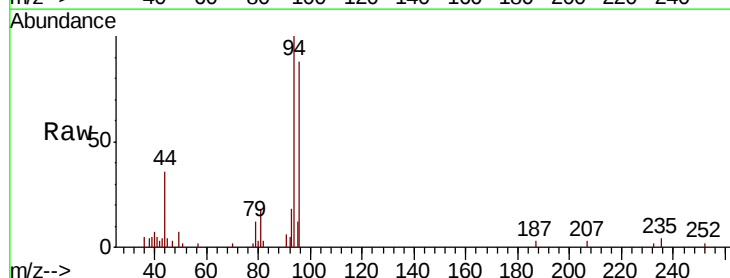
Acq: 26 Sep 2019 14:52

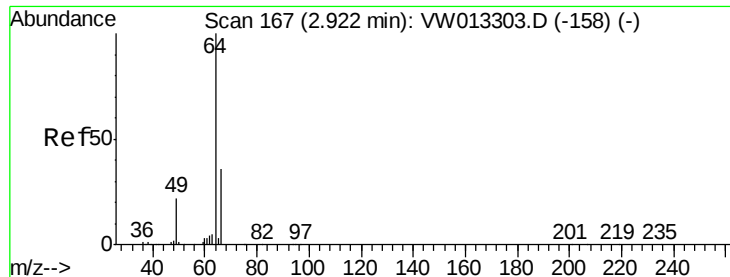
Tgt Ion: 94 Resp: 6266

Ion Ratio Lower Upper

94 100

96 92.9 9.7 184.3





#8

Chloroethane

Concen: 2.054 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

Tot Ion: 64 Resp: 5848

Ion Ratio Lower Upper

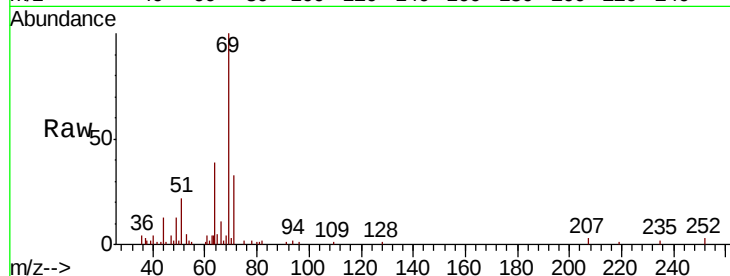
64 100

66 29.1 22.7 42.1

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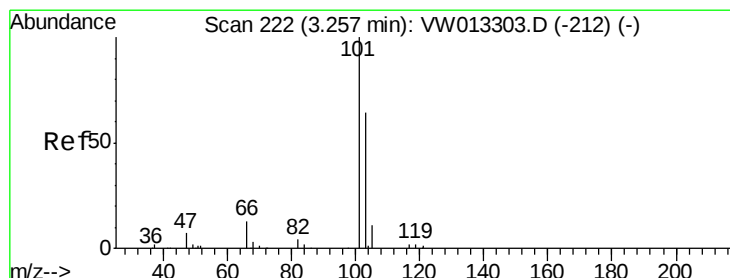
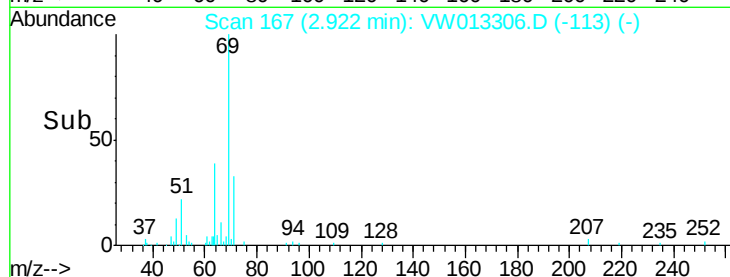
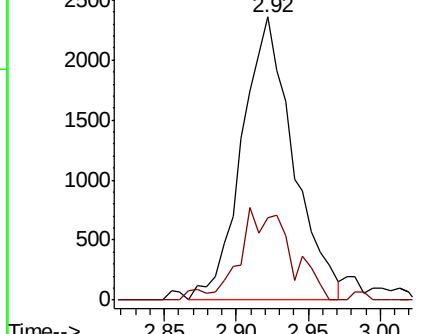
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Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 1.616 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW013306.D

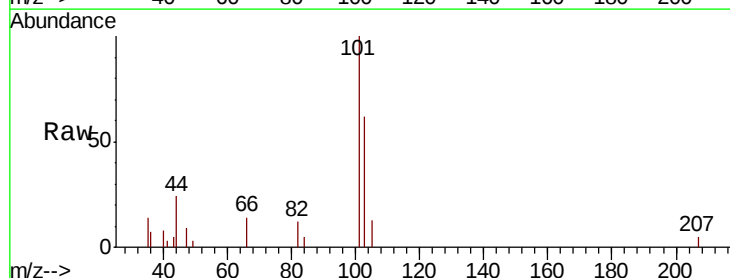
Acq: 26 Sep 2019 14:52

Tgt Ion: 101 Resp: 4702

Ion Ratio Lower Upper

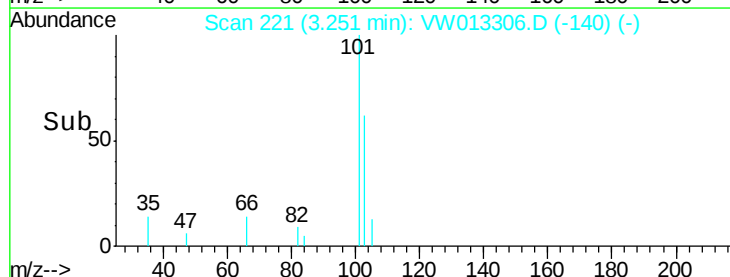
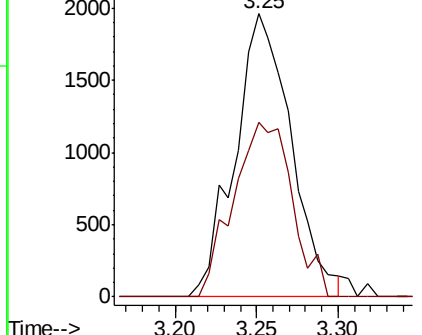
101 100

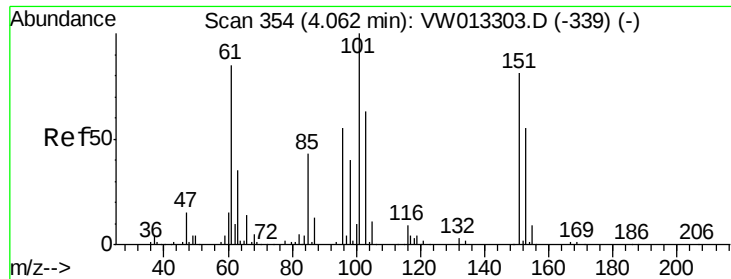
103 64.7 45.2 84.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 2.385 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

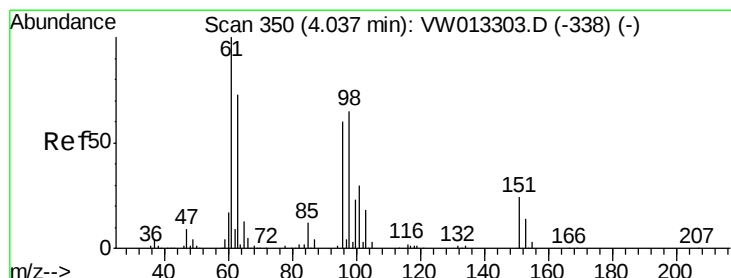
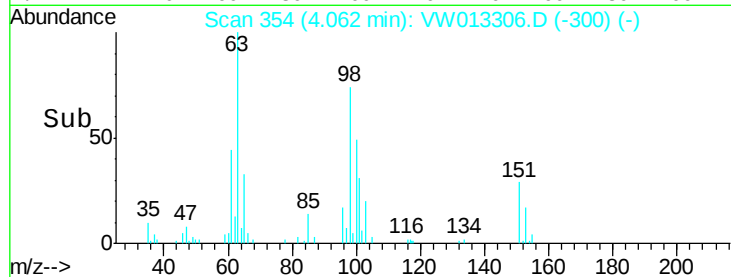
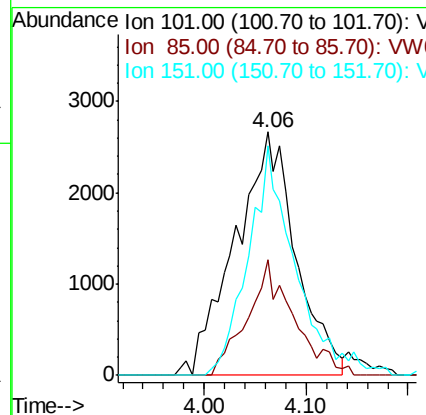
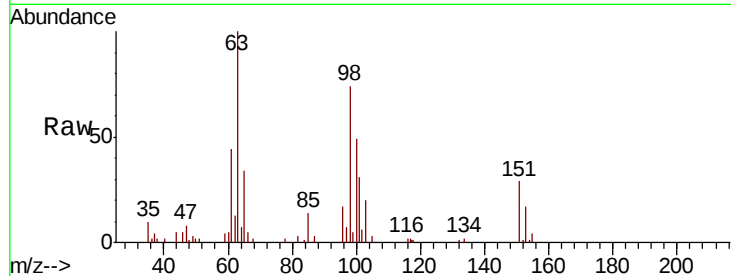
ClientSampleId :

MDL02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	10966		
85	20.8		31.8	47.8#
151	71.6		65.4	98.0

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#12

1,1-Dichloroethene

Concen: 2.192 ug/L m

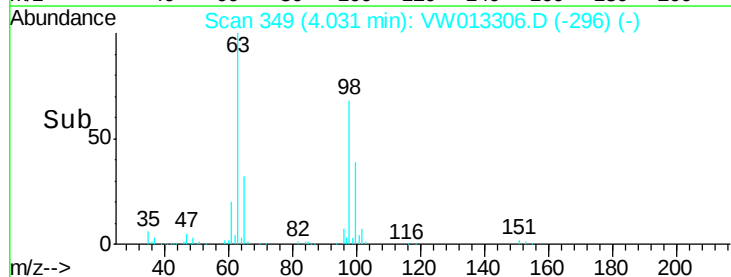
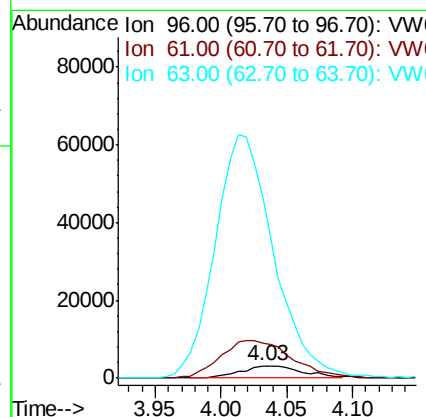
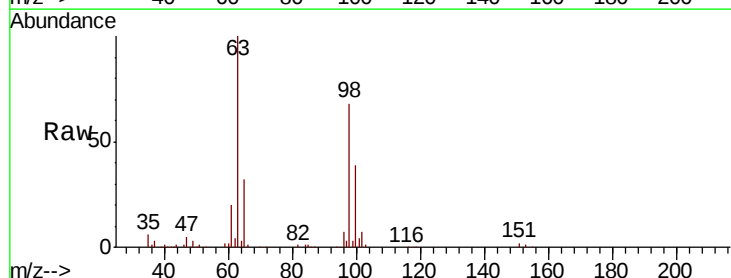
RT: 4.03 min Scan# 349

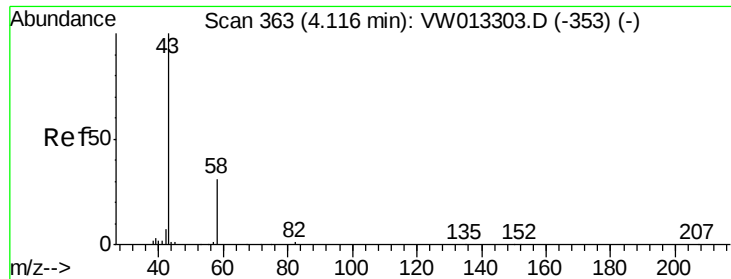
Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	10226		
61	290.5		115.9	215.3#
63	1483.2		88.9	165.1#





#13

Acetone

Concen: 5.396 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 7491

Ion Ratio Lower Upper

43 100

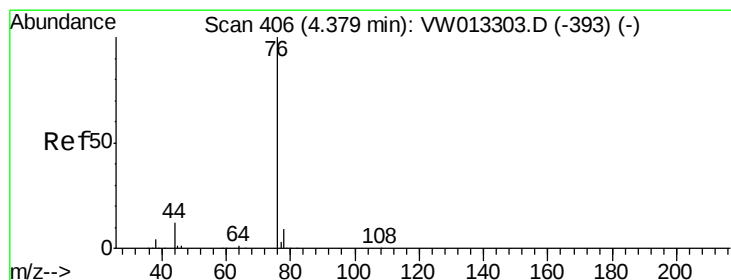
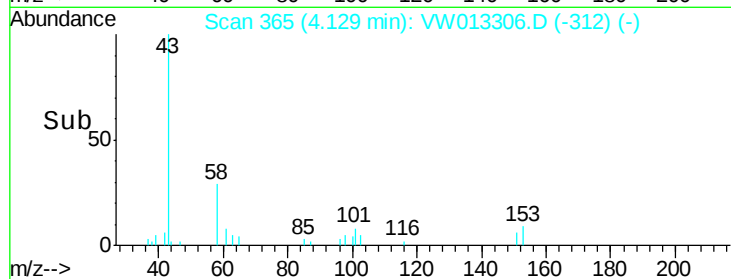
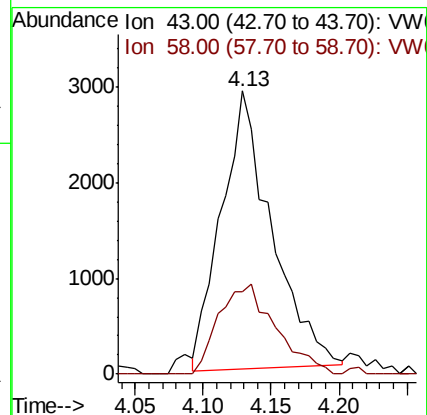
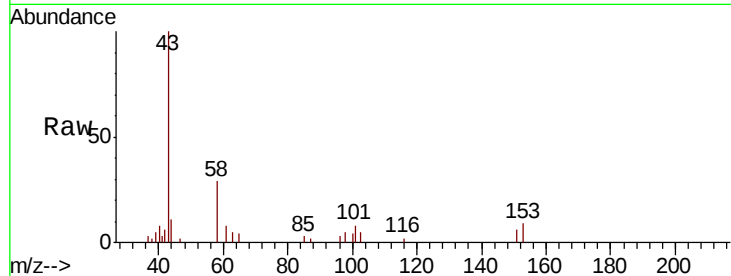
58 36.5 0.0 63.2

Manual Integrations

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#14

Carbon disulfide

Concen: 1.898 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

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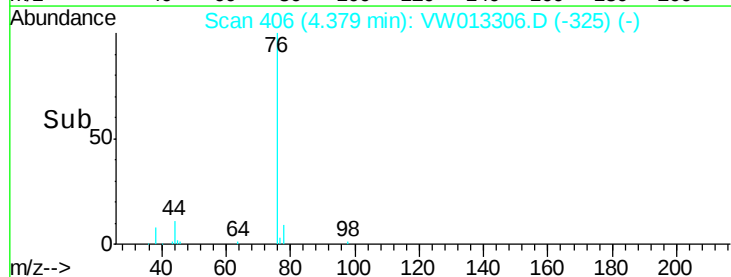
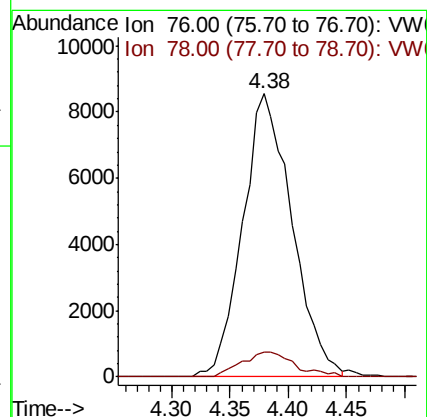
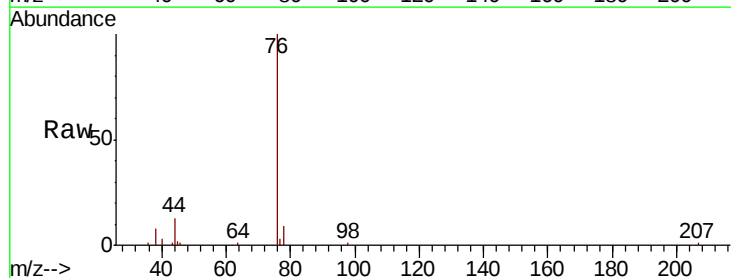
Acq: 26 Sep 2019 14:52

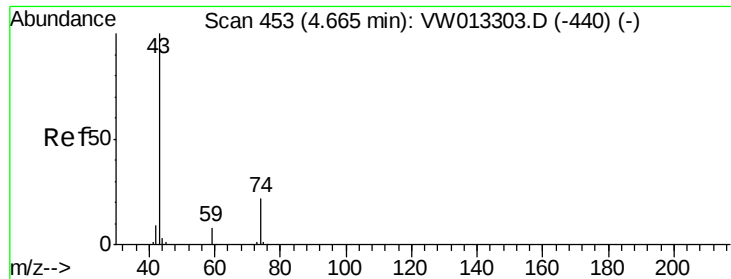
Tgt Ion: 76 Resp: 25141

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8





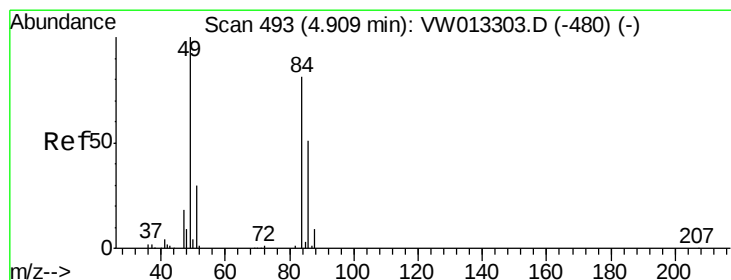
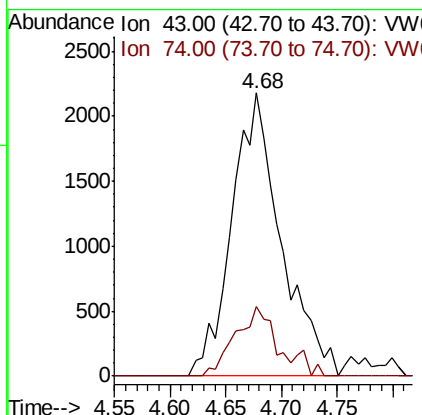
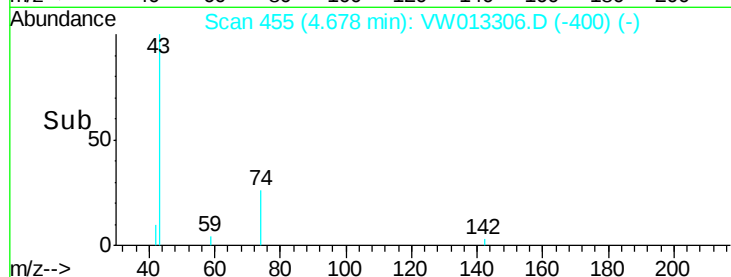
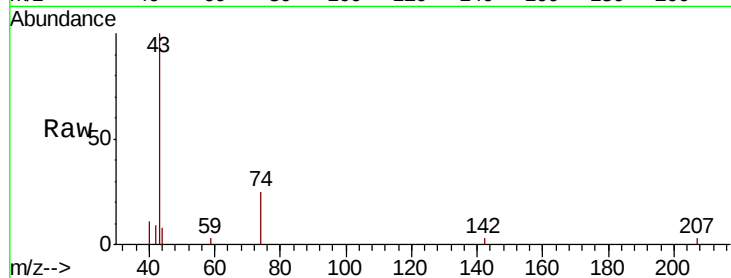
#15
Methyl Acetate
Concen: 2.506 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion: 43 Resp: 6712
Ion Ratio Lower Upper
43 100
74 8.2 18.7 28.1#

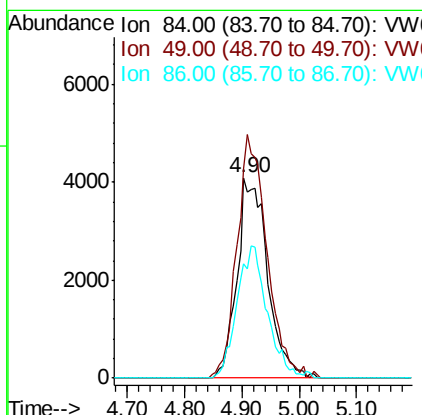
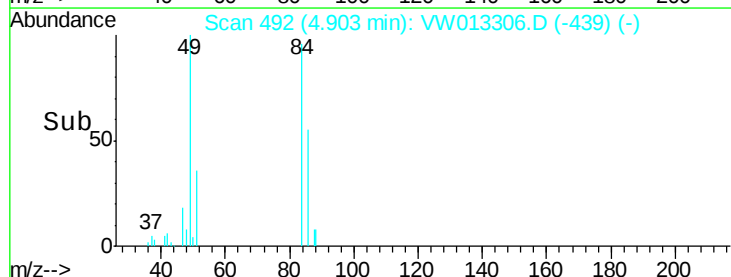
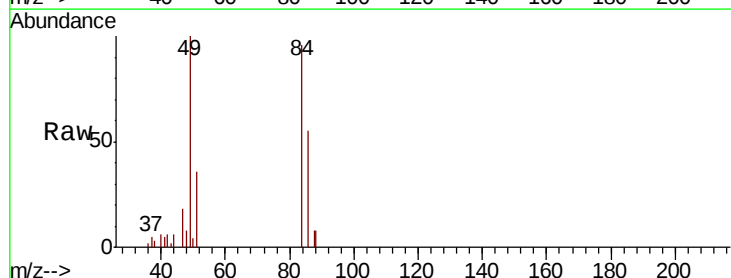
Manual Integrations
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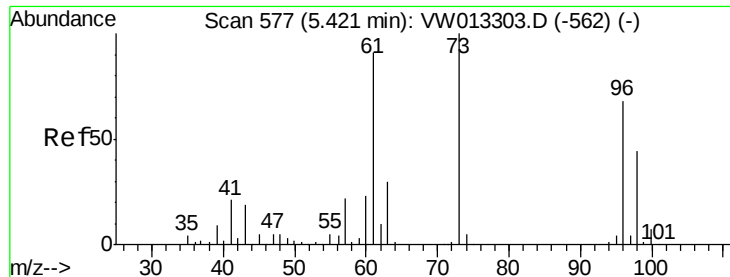
MMDadoda
10/9/2019 2:13:14 PM



#16
Methylene chloride
Concen: 2.491 ug/L m
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion: 84 Resp: 15062
Ion Ratio Lower Upper
84 100
49 104.7 84.8 157.4
86 57.4 44.0 81.6





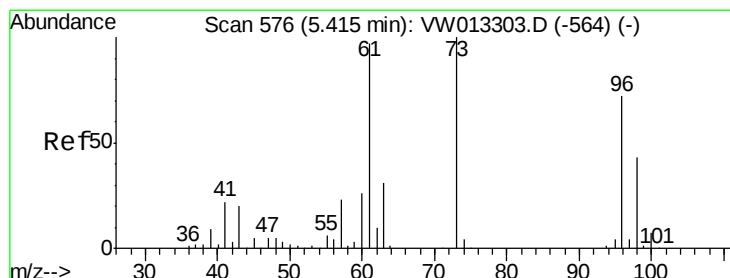
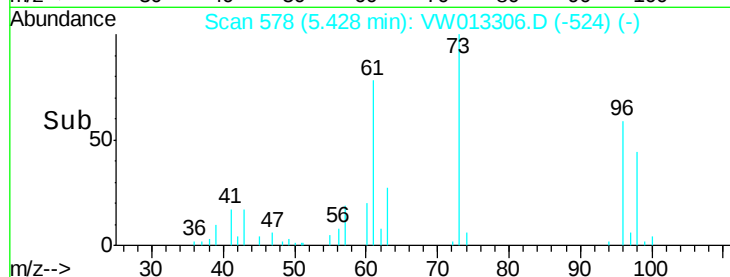
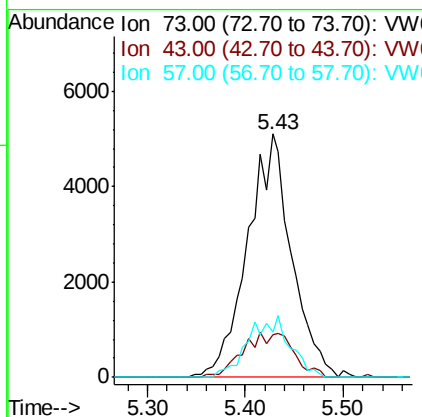
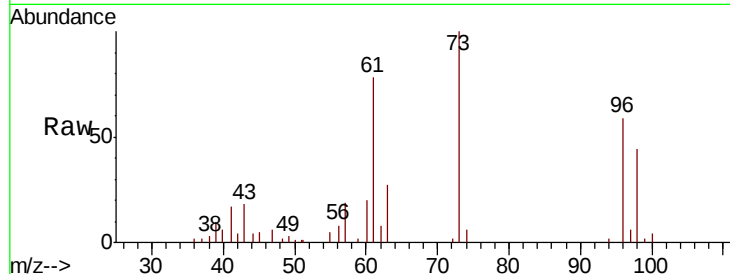
#17
Methvl tert-butvl Ether
Concen: 1.979 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
73	100		
43	9.1	15.3	22.9#
57	9.3	18.2	27.4#

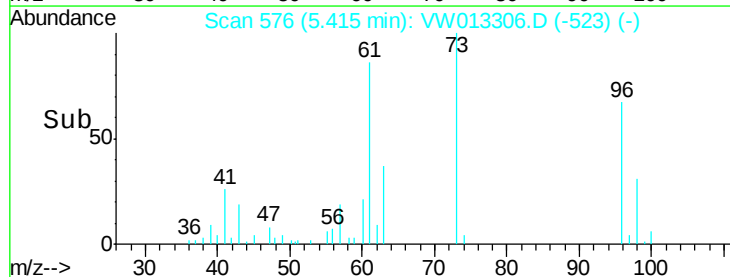
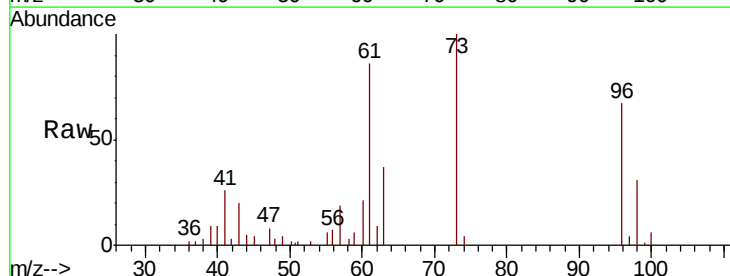
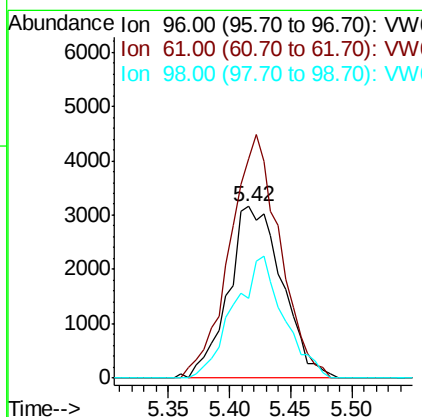
Manual Integrations
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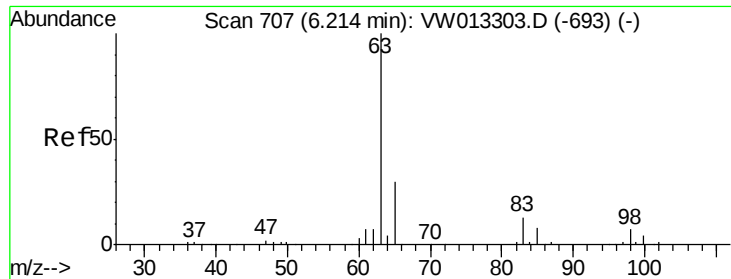
MMDadoda
10/9/2019 2:13:14 PM



#18
trans-1,2-Dichloroethene
Concen: 1.933 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.9	91.2	169.4
98	46.1	44.7	82.9





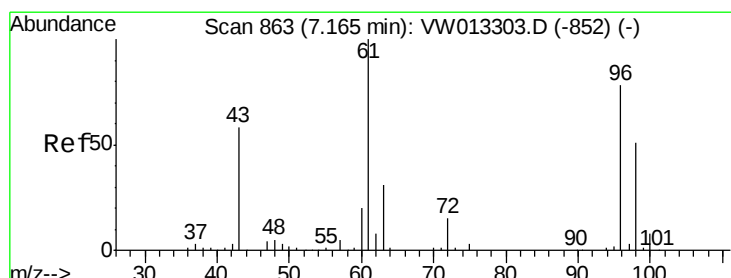
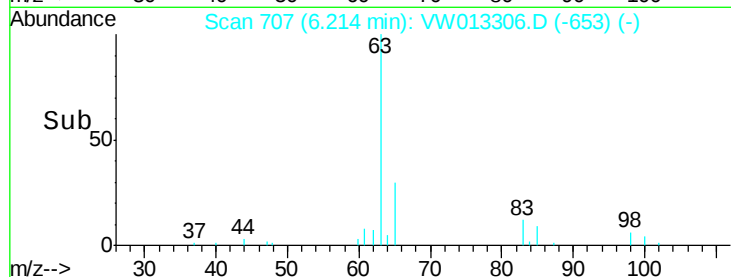
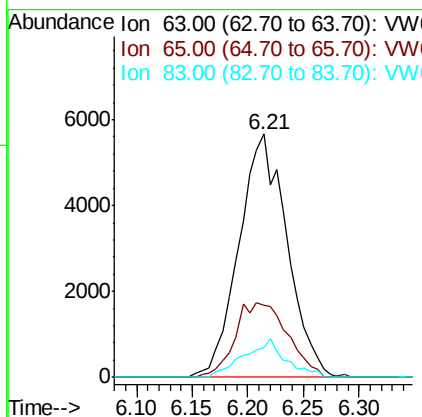
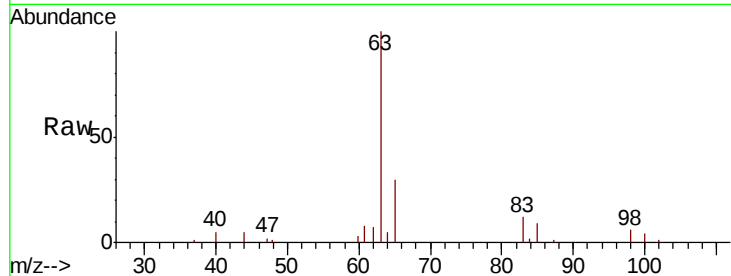
#19
 1,1-Dichloroethane
 Concen: 1.942 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.8	21.8	40.4
83	12.3	9.3	17.3

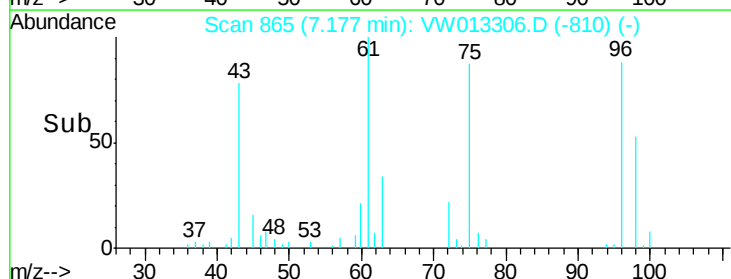
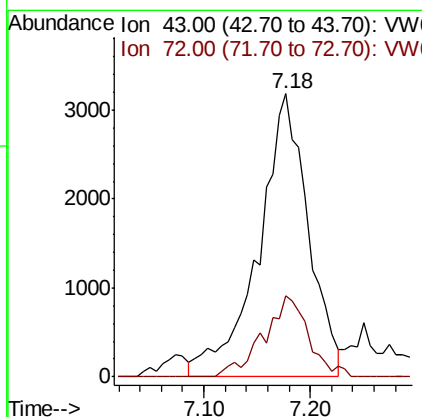
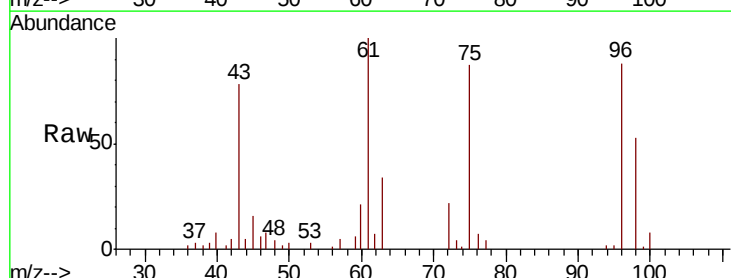
Manual Integrations
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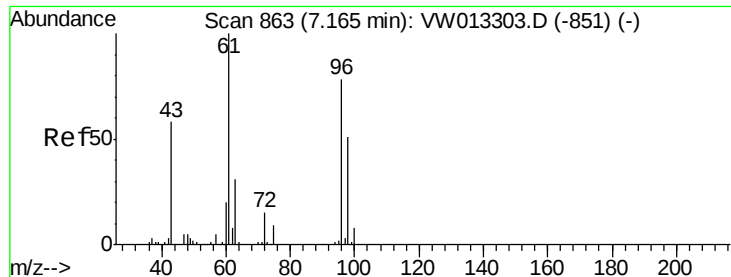
MMDadoda
 10/9/2019 2:13:14 PM



#21
 2-Butanone
 Concen: 5.165 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.4	13.2	39.6





#22

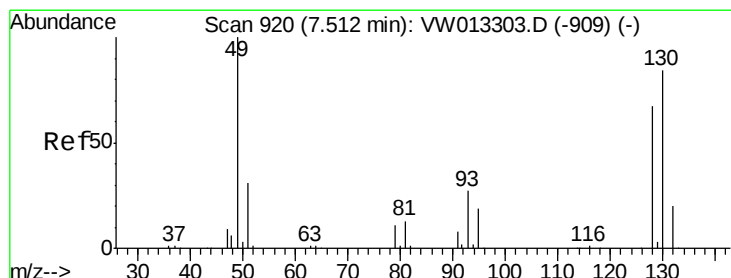
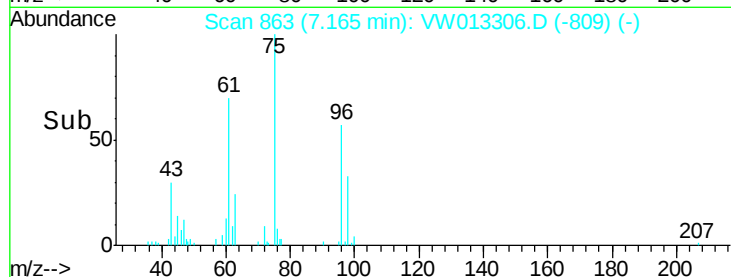
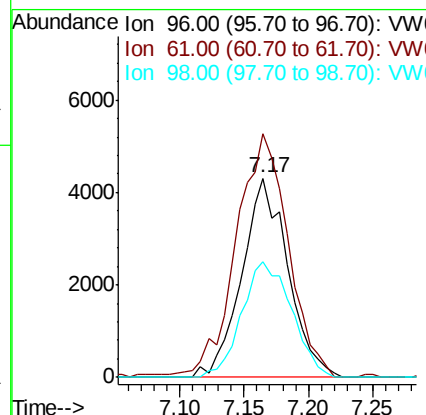
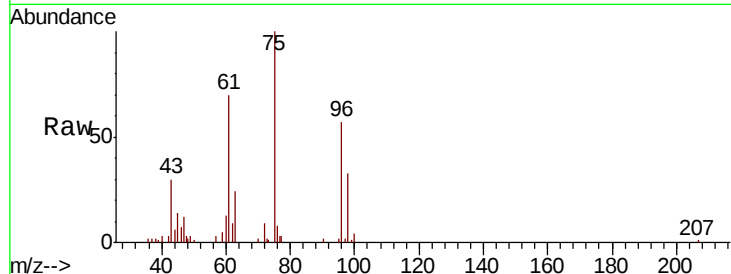
cis-1,2-Dichloroethene
Concen: 1.967 ug/L
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
96	100		
61	122.2	86.0	159.6
98	58.1	43.5	80.9

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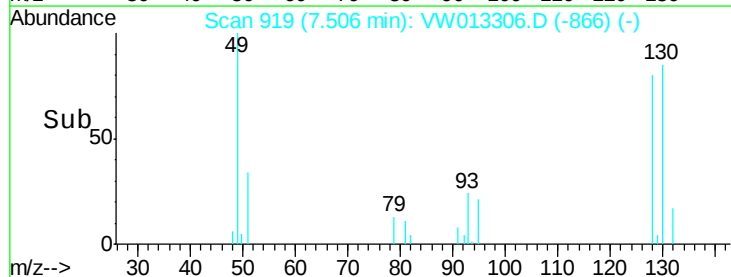
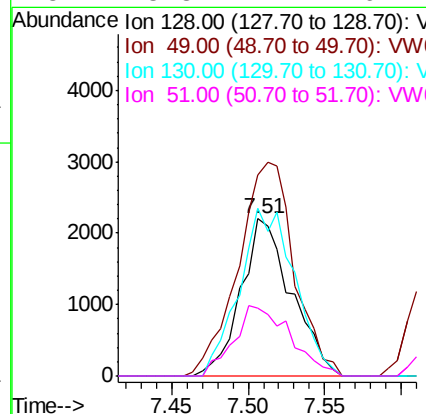
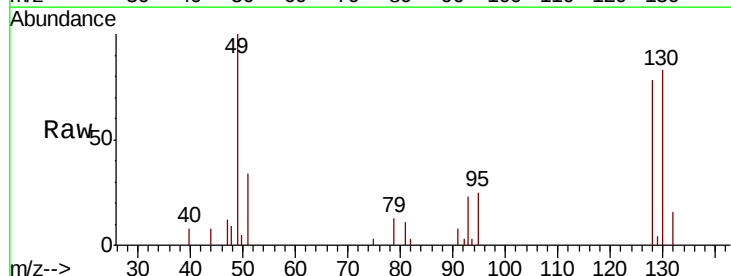
MMDadoda
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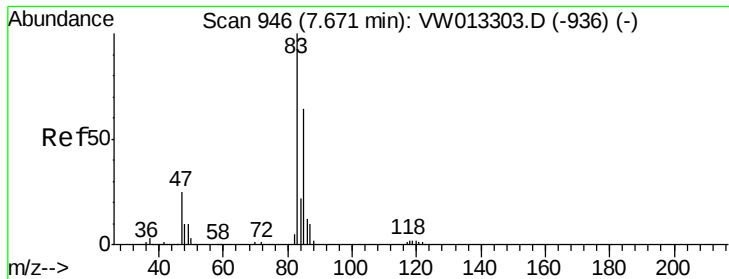


#23

Bromochloromethane
Concen: 2.070 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
128	100		
49	128.1	114.6	212.8
130	106.6	92.6	172.0
51	43.3	42.7	64.1





#25

Chloroform

Concen: 2.060 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 83 Resp: 17712

Ion Ratio Lower Upper

83 100

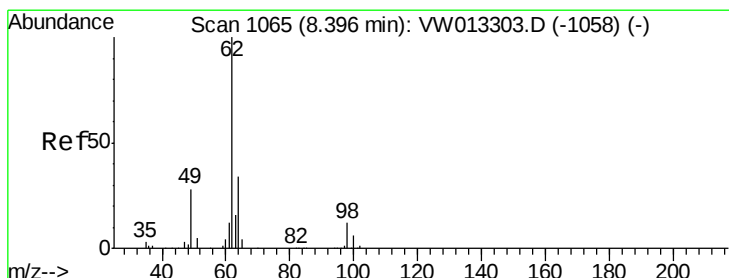
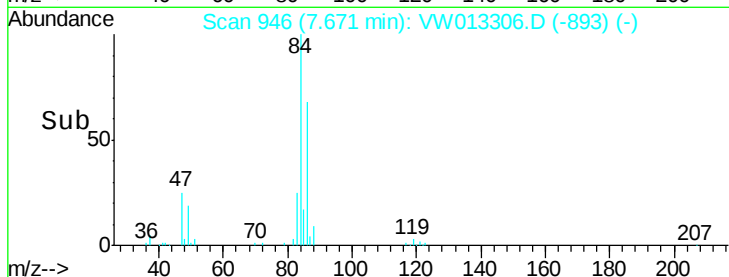
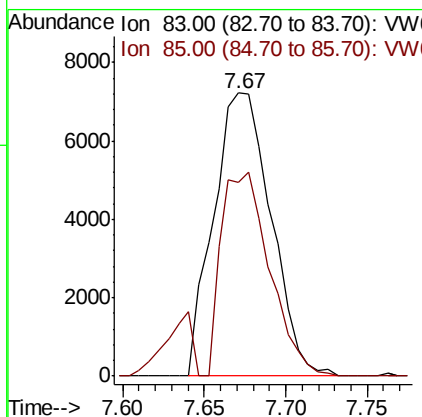
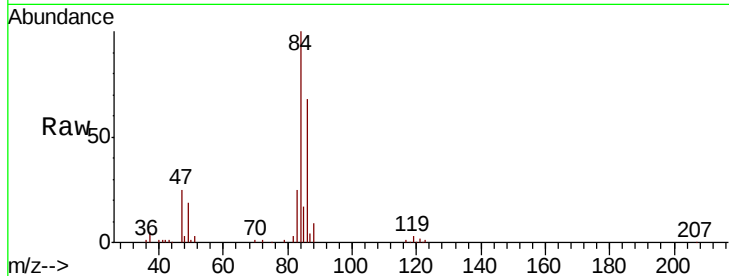
85 61.0 45.9 85.3

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 2.112 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW013306.D

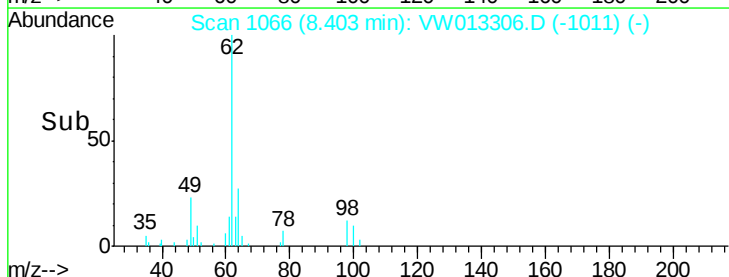
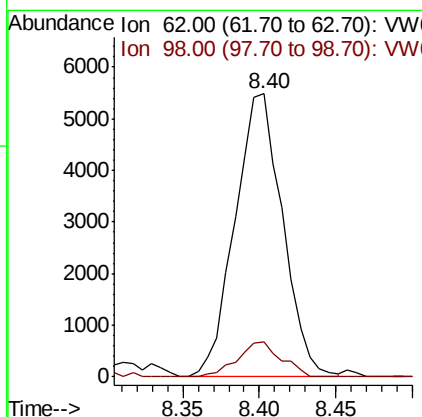
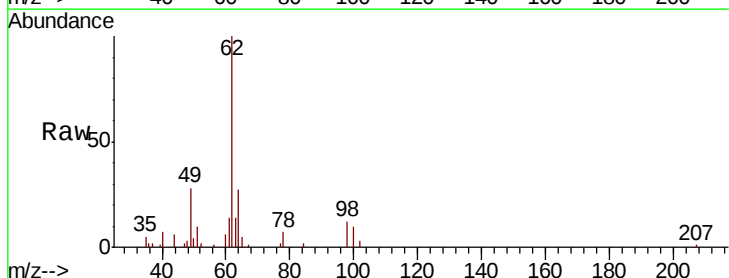
Acq: 26 Sep 2019 14:52

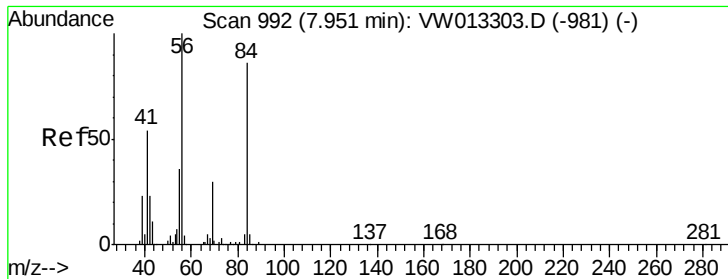
Tgt Ion: 62 Resp: 11891

Ion Ratio Lower Upper

62 100

98 12.3 9.0 13.6





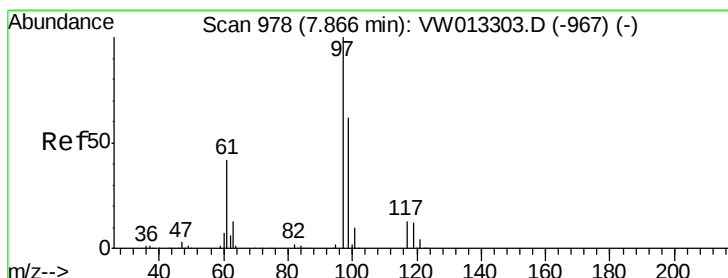
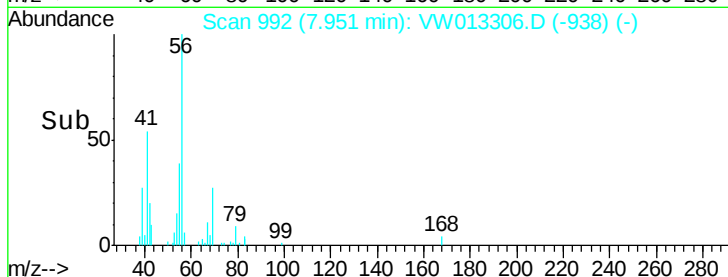
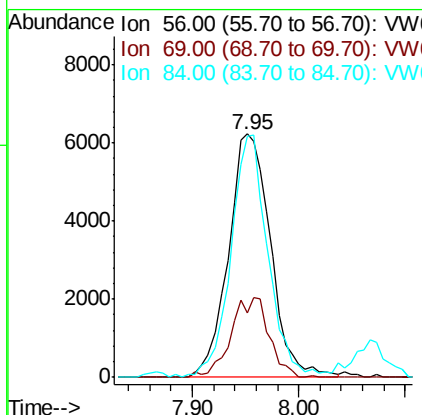
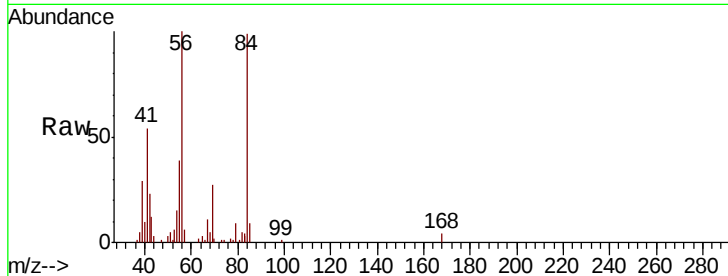
#30
Cyclohexane
Concen: 1.983 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	14.8	24.6	37.0#
84	88.4	69.5	104.3

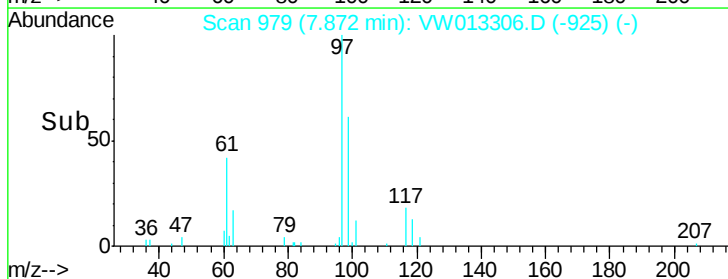
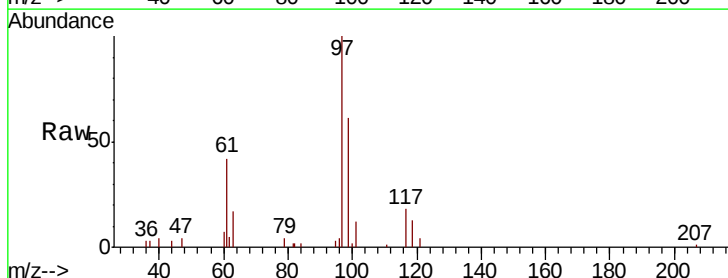
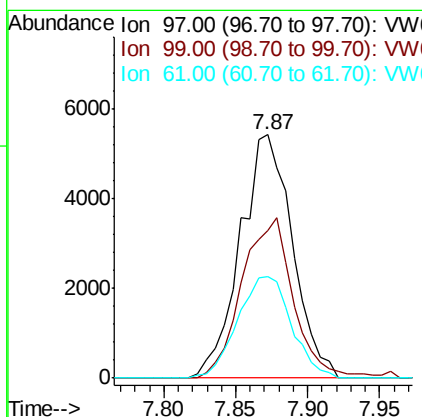
Manual Integrations
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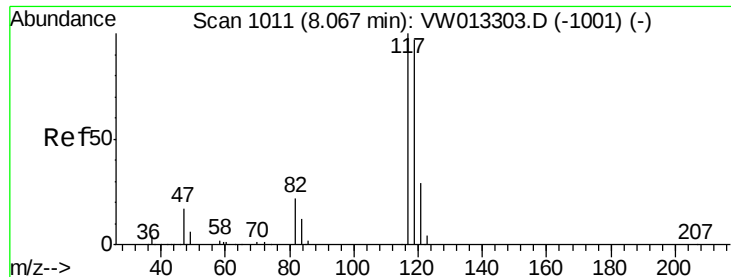
MMDadoda
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#31
1,1,1-Trichloroethane
Concen: 1.972 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	50.6	75.8
61	43.1	34.2	51.2





#32

Carbon tetrachloride

Concen: 1.886 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion:117 Resp: 12445

Ion Ratio Lower Upper

117 100

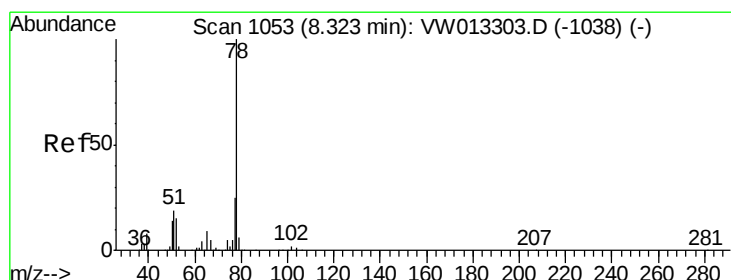
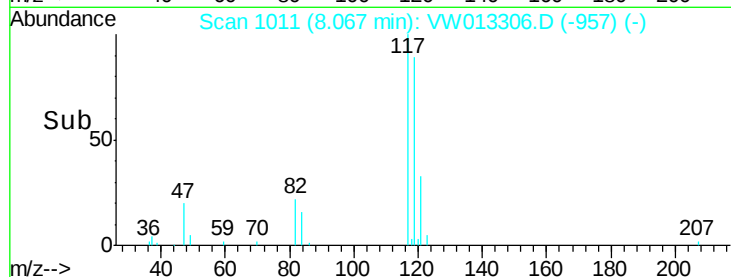
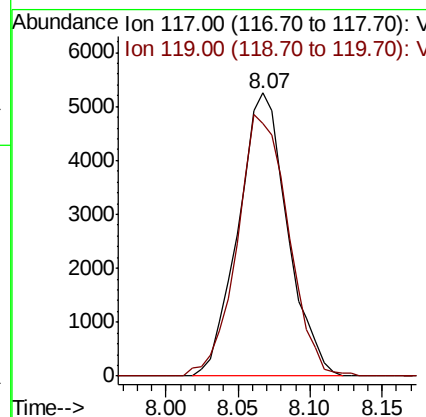
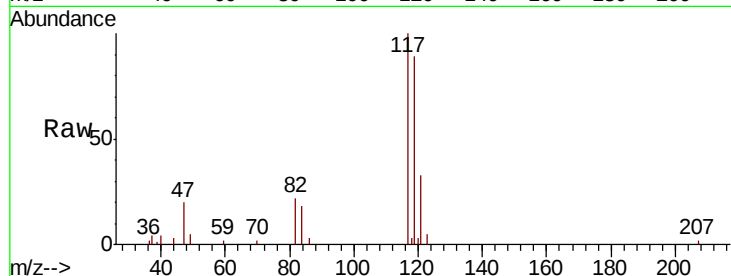
119 96.0 76.7 115.1

Manual Integrations

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#34

Benzene

Concen: 2.000 ug/L m

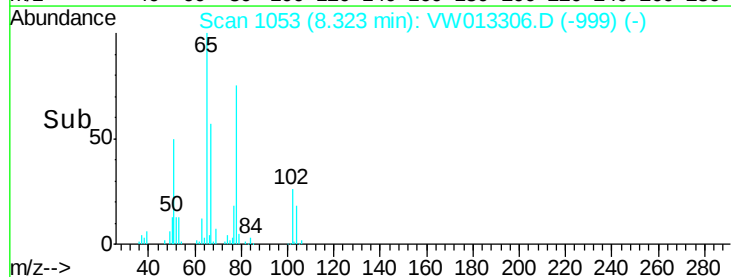
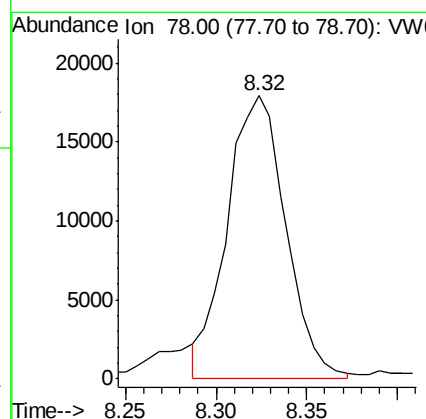
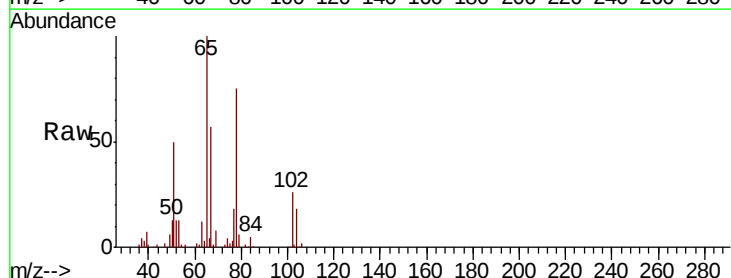
RT: 8.32 min Scan# 1053

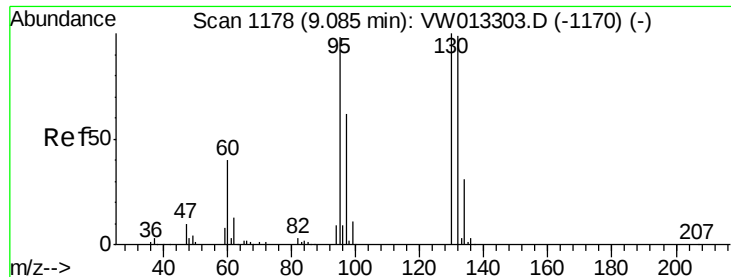
Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion: 78 Resp: 40427





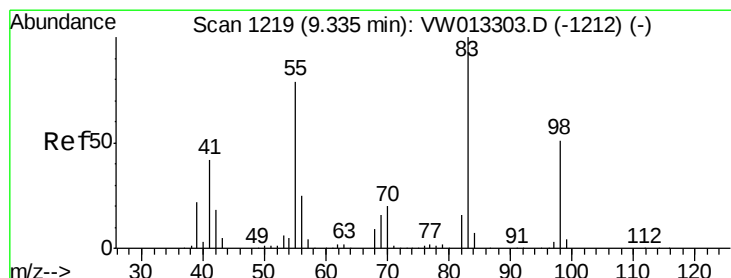
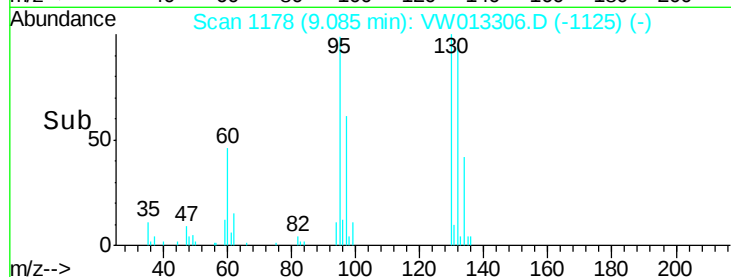
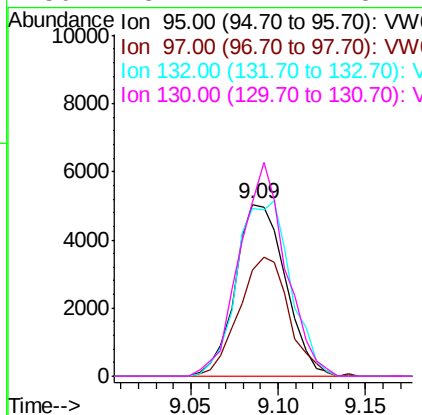
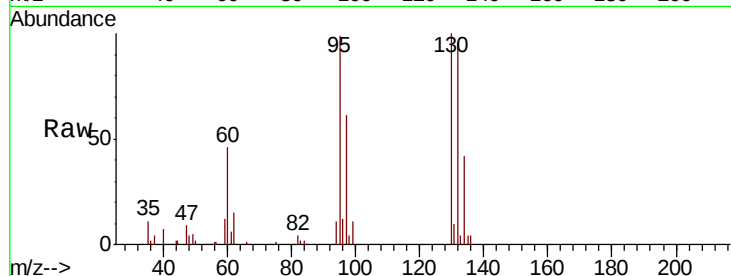
#35
 Trichloroethene
 Concen: 1.898 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

Tot Ion	95	Resp	10080
Ion	Ratio	Lower	Upper
95	100		
97	69.2	44.3	82.3
132	109.5	71.7	133.3
130	115.1	74.1	137.7

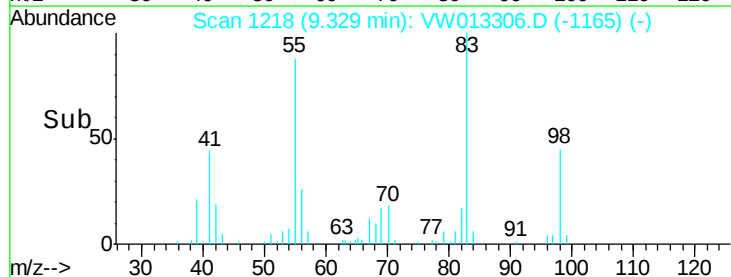
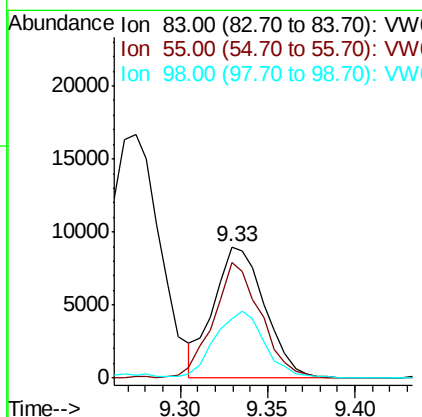
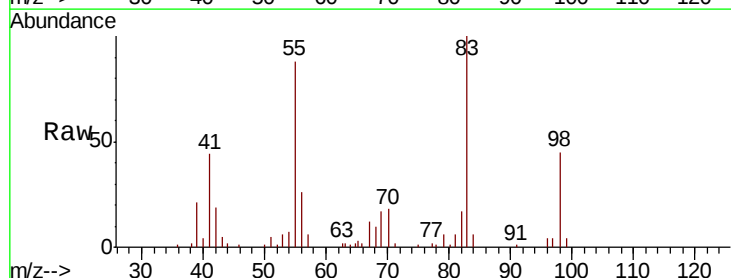
Manual Integrations
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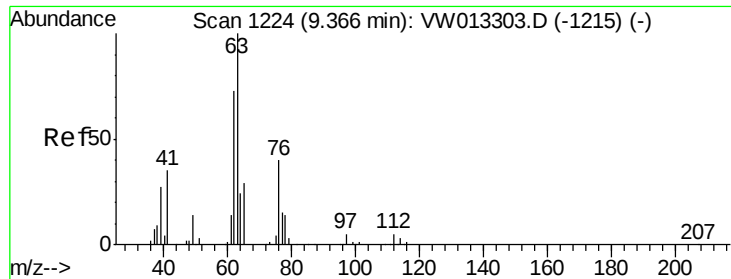
MMDadoda
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#36
 Methylcyclohexane
 Concen: 1.923 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion	83	Resp	18196
Ion	Ratio	Lower	Upper
83	100		
55	81.6	61.8	92.6
98	49.7	39.6	59.4





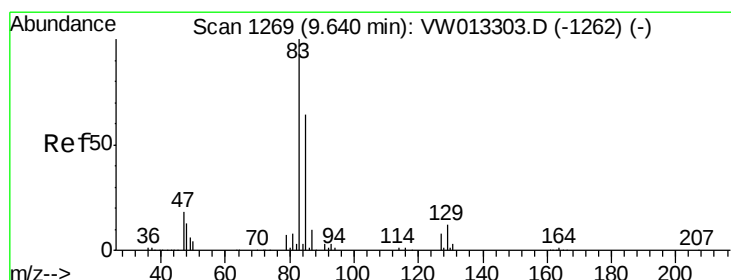
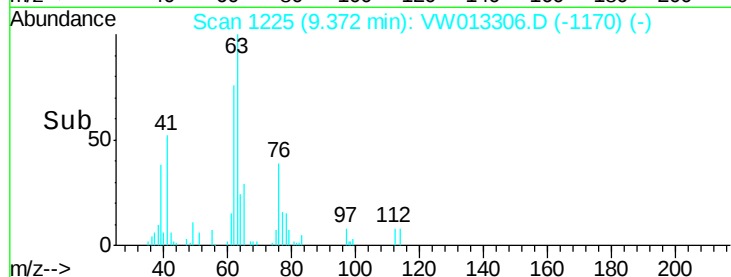
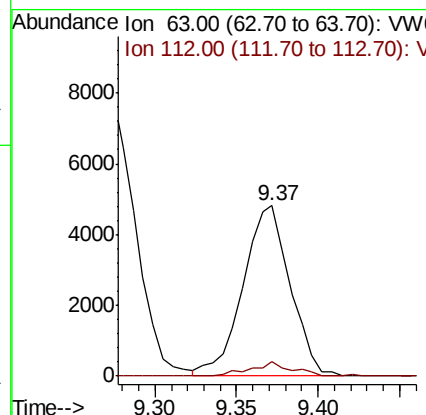
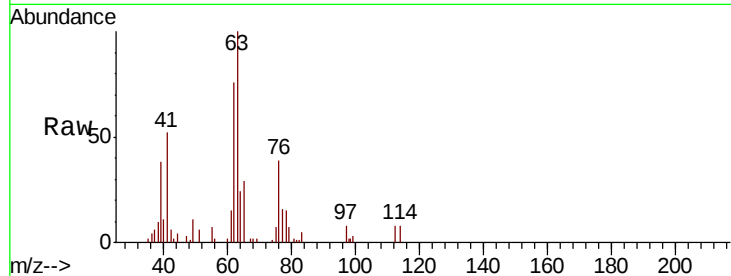
#40
 1,2-Dichloropropane
 Concen: 1.949 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

Tot Ion: 63 Resp: 9696
 Ion Ratio Lower Upper
 63 100
 112 6.0 4.1 6.1

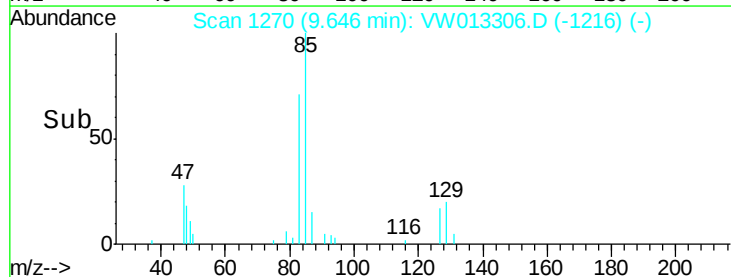
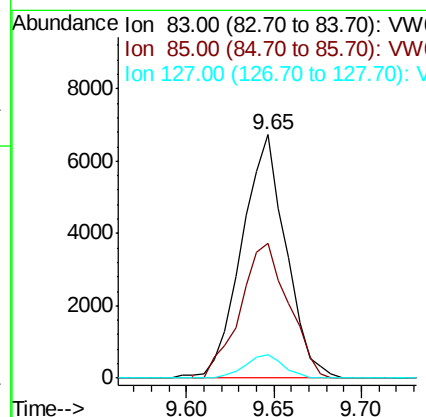
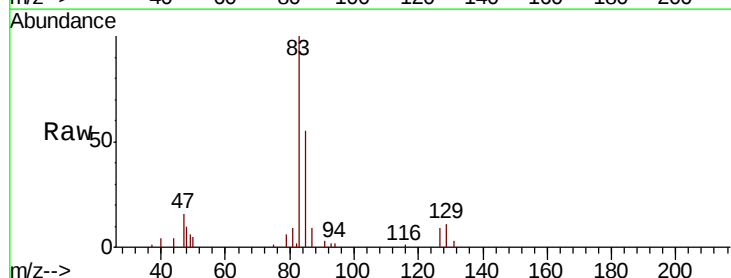
Manual Integrations
 APPROVED

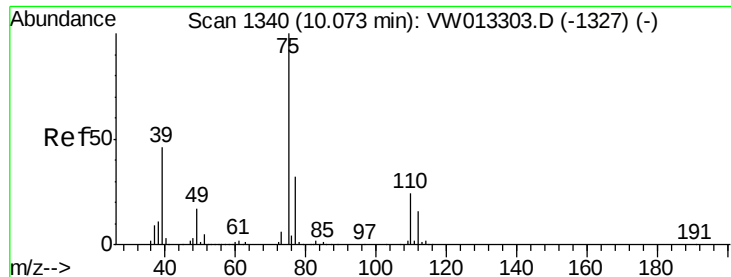
MMDadoda
 10/9/2019 2:13:14 PM



#41
 Bromodichloromethane
 Concen: 1.933 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion: 83 Resp: 11794
 Ion Ratio Lower Upper
 83 100
 85 55.2 43.8 81.4
 127 9.4 7.0 10.6





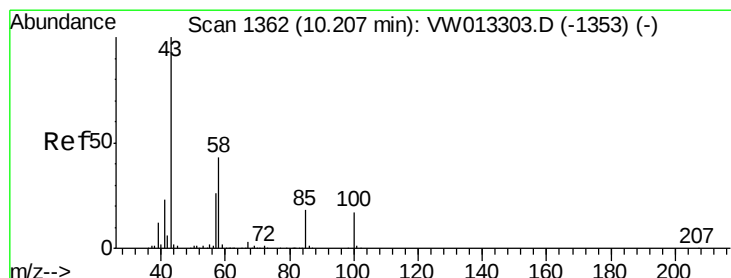
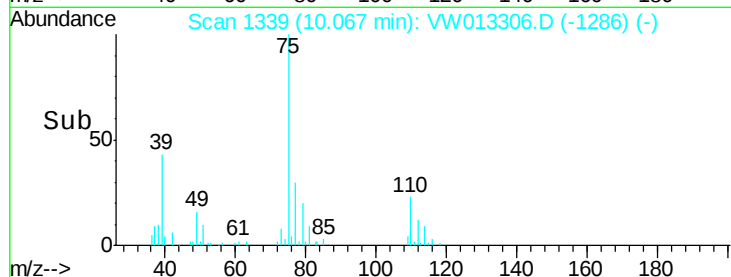
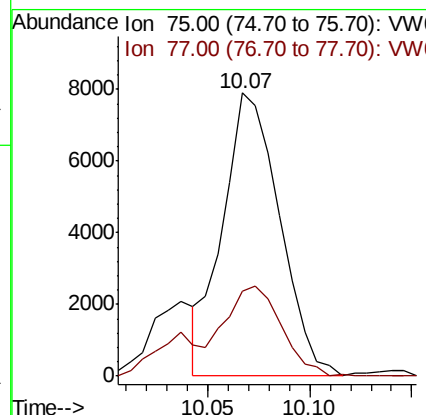
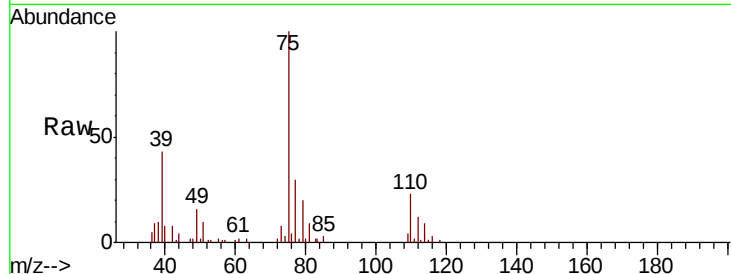
#42
 cis-1,3-Dichloropropene
 Concen: 1.923 ug/L
 RT: 10.07 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 15276
 Ion Ratio Lower Upper
 75 100
 77 30.2 21.3 39.5

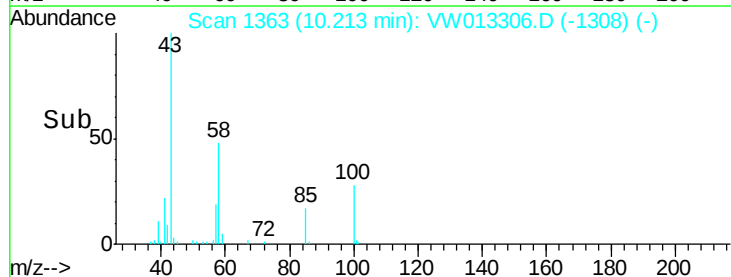
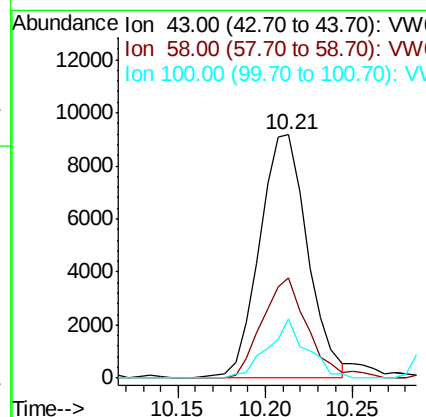
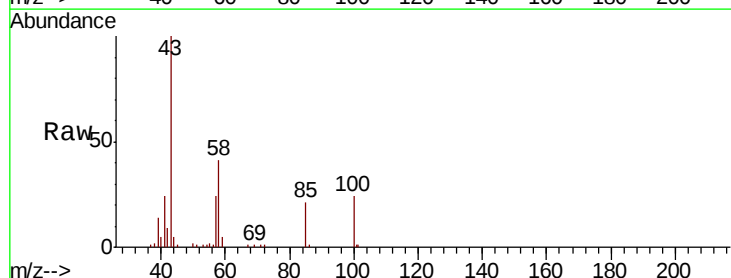
Manual Integrations
 APPROVED

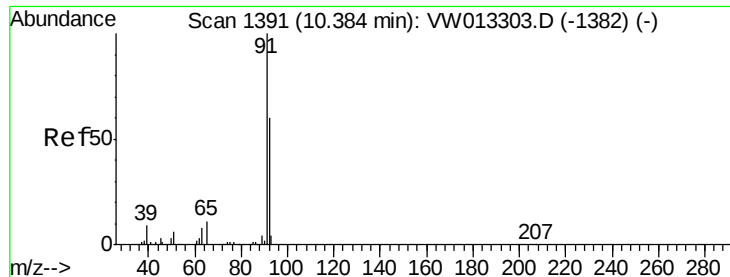
MMDadoda
 10/9/2019 2:13:14 PM



#43
 4-Methyl-2-pentanone
 Concen: 4.605 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion: 43 Resp: 17534
 Ion Ratio Lower Upper
 43 100
 58 37.9 32.7 49.1
 100 19.5 12.9 19.3#





#44

Toluene

Concen: 2.080 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 45785

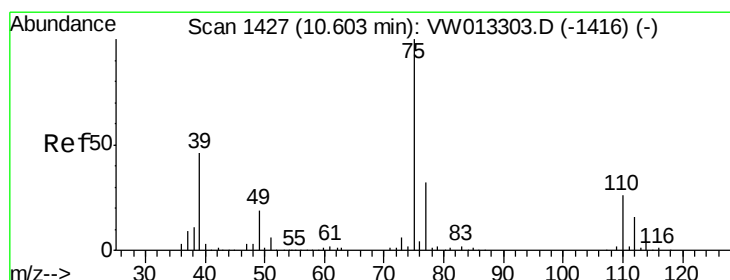
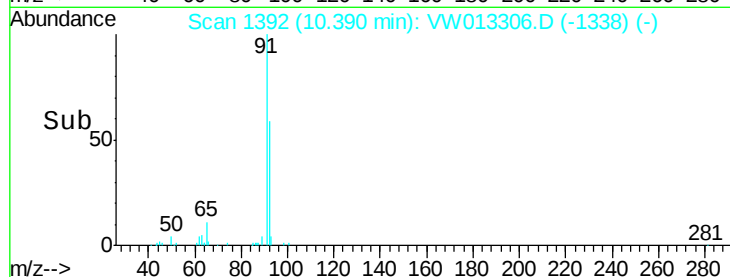
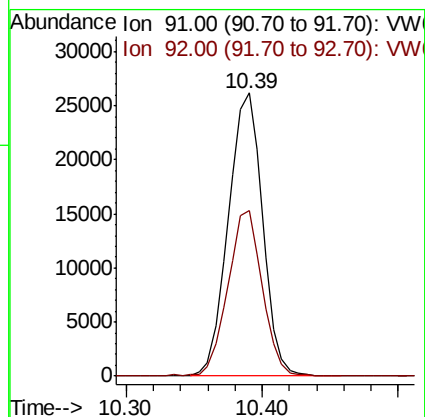
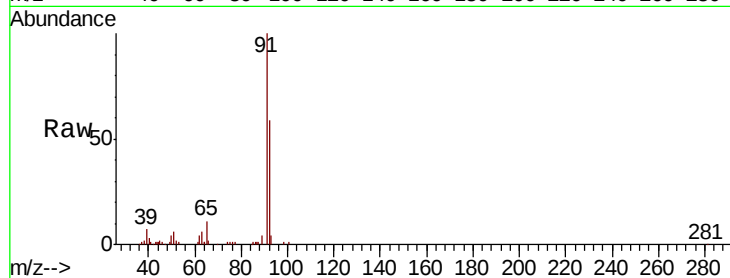
Ion Ratio Lower Upper

91 100

92 58.7 41.5 77.1

Manual Integrations
APPROVED

MMDadoda
10/9/2019 2:13:14 PM



#45

trans-1,3-Dichloropropene

Concen: 2.092 ug/L m

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013306.D

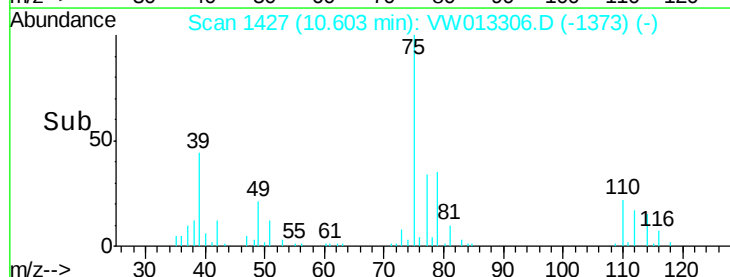
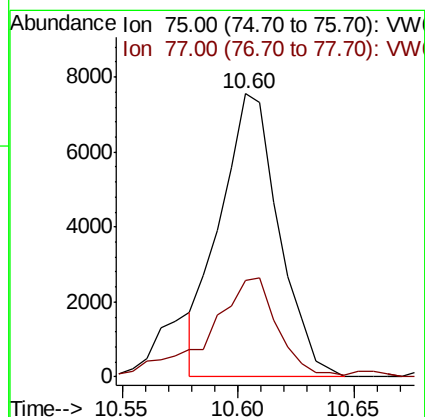
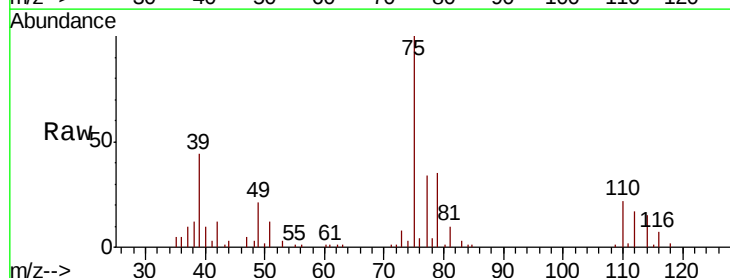
Acq: 26 Sep 2019 14:52

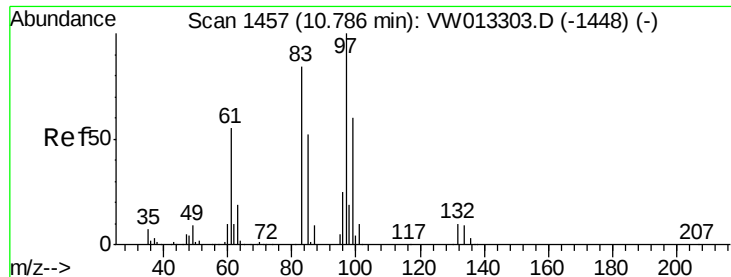
Tgt Ion: 75 Resp: 13362

Ion Ratio Lower Upper

75 100

77 34.3 20.5 38.1





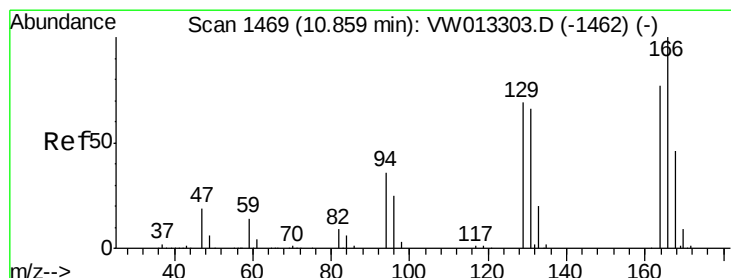
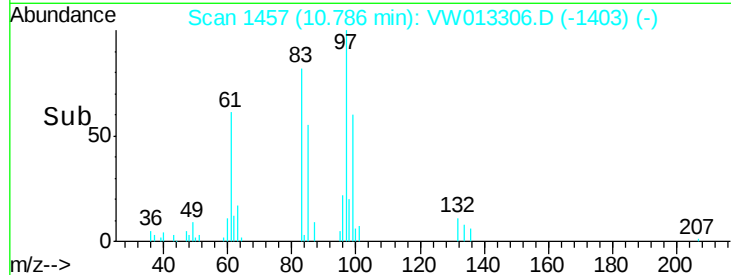
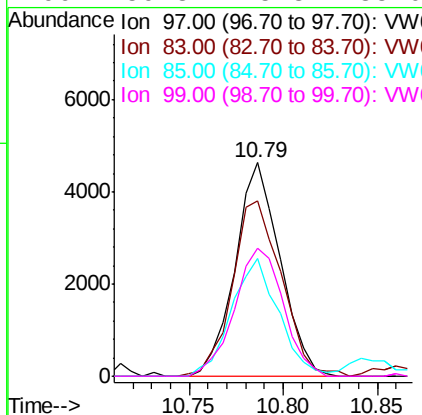
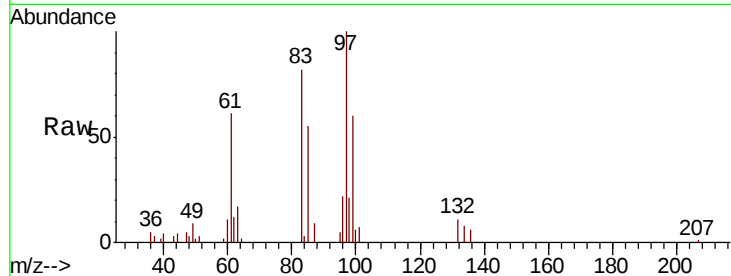
#46
 1,1,2-Trichloroethane
 Concen: 1.965 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion:	97	Resp:	7657
Ion	Ratio	Lower	Upper
97	100		
83	82.4	59.4	110.2
85	55.4	38.7	71.9
99	59.8	45.8	85.0

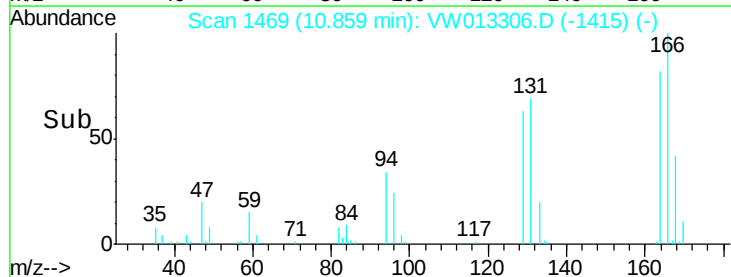
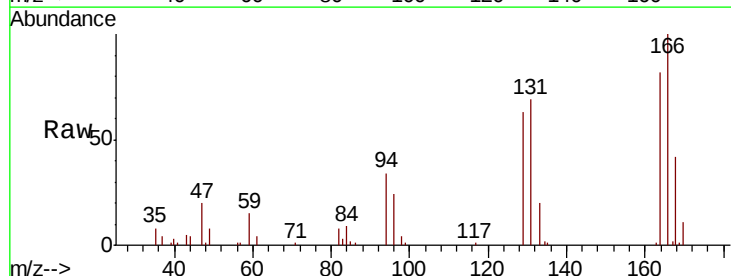
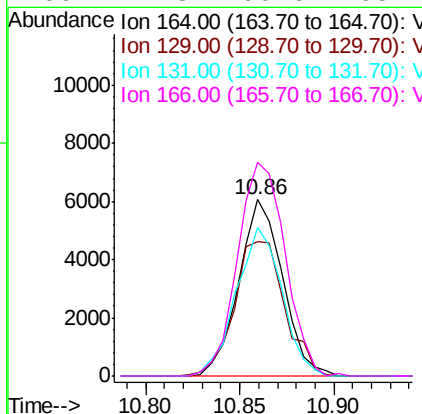
Manual Integrations
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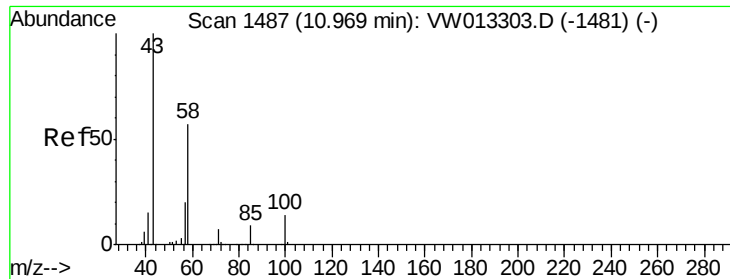
MMDadoda
 10/9/2019 2:13:14 PM



#47
 Tetrachloroethene
 Concen: 2.055 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion:	164	Resp:	9819
Ion	Ratio	Lower	Upper
164	100		
129	76.4	60.5	112.5
131	84.3	60.6	112.6
166	121.3	90.6	168.2





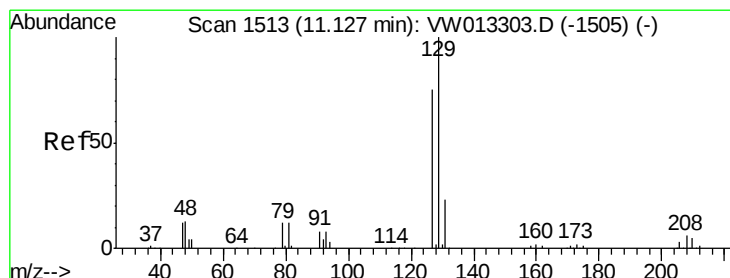
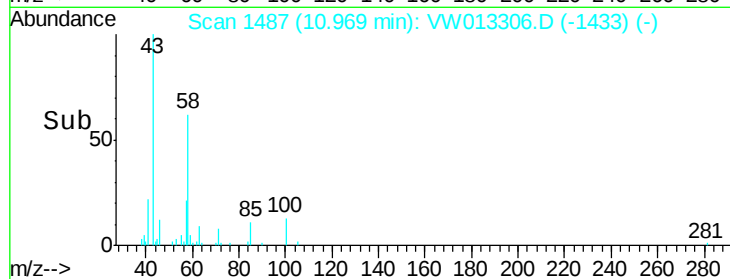
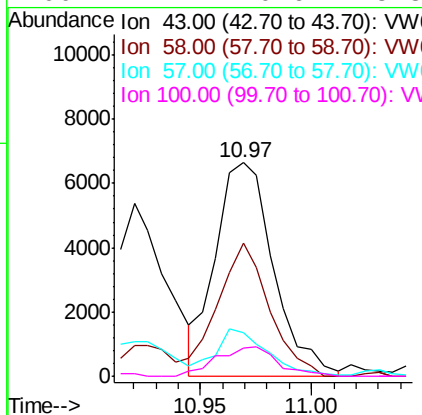
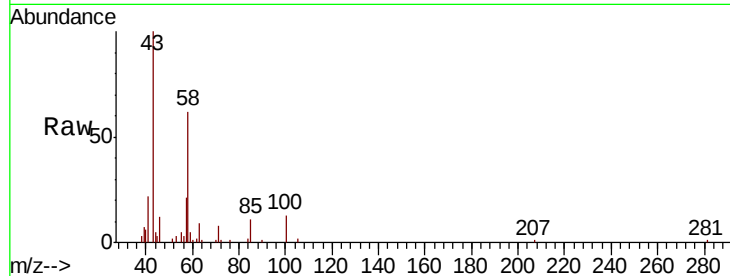
#49
2-Hexanone
Concen: 4.405 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	56.2	44.3	66.5	
57	20.1	15.3	22.9	
100	14.4	10.6	15.8	

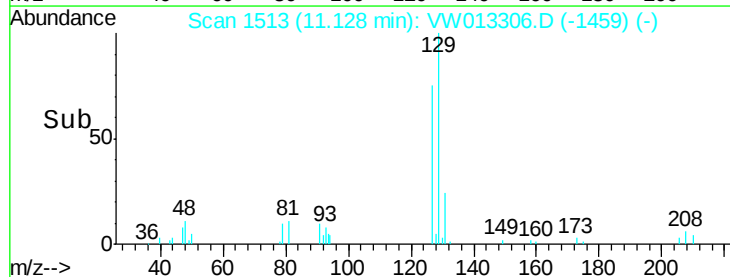
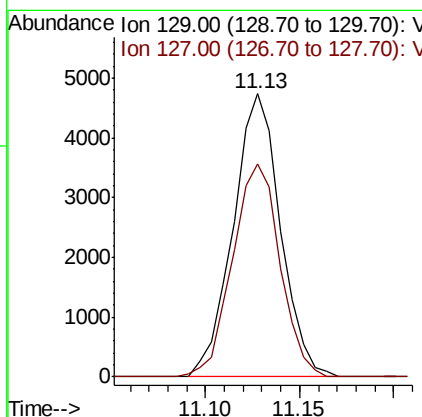
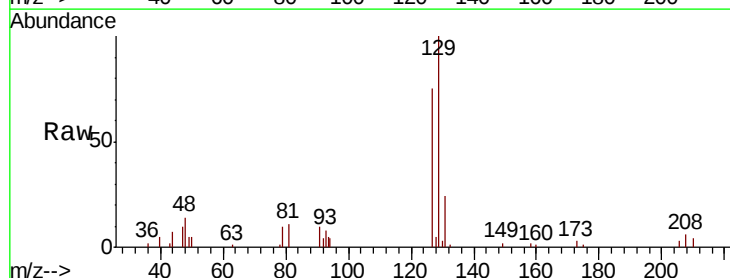
Manual Integrations
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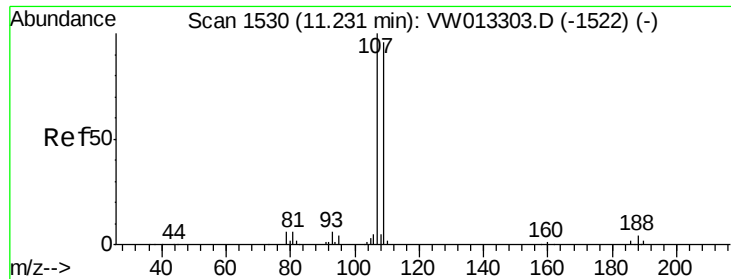
MMDadoda
10/9/2019 2:13:14 PM



#50
Dibromochloromethane
Concen: 1.849 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	75.4	56.1	104.1	





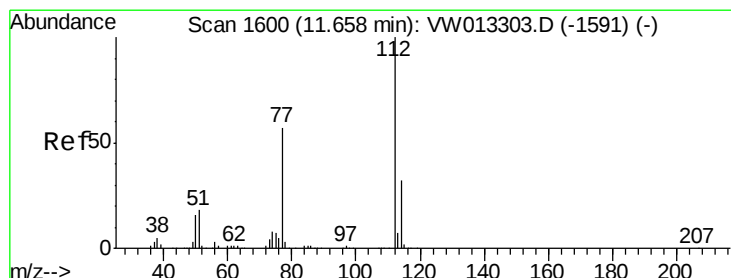
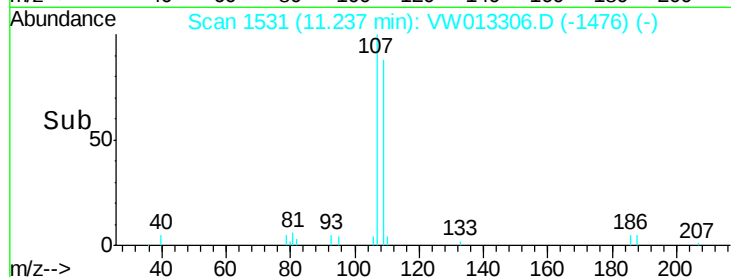
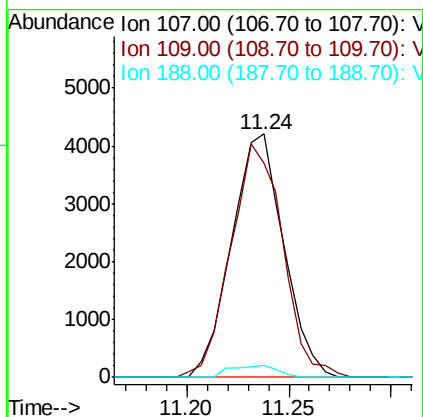
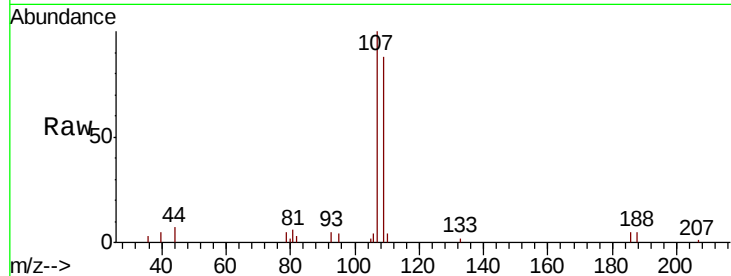
#51
 1,2-Dibromoethane
 Concen: 1.954 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	87.8	65.5	121.6
188	4.7	3.0	4.6#

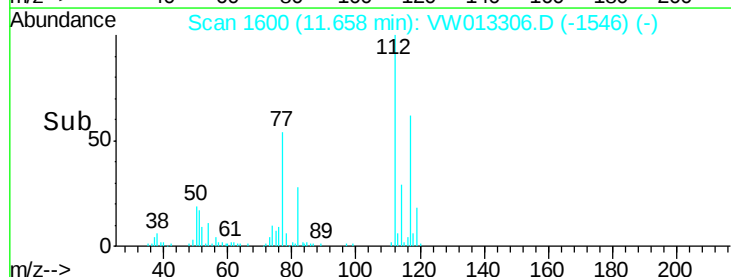
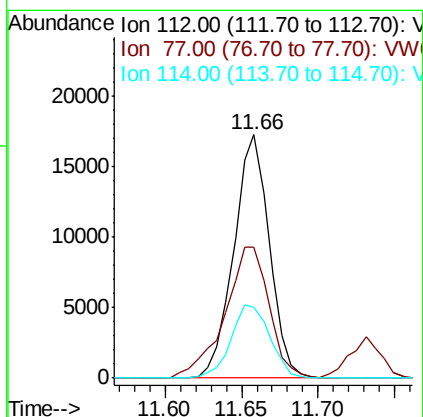
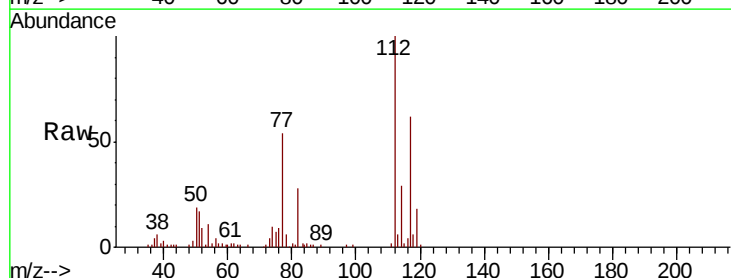
Manual Integrations
 APPROVED

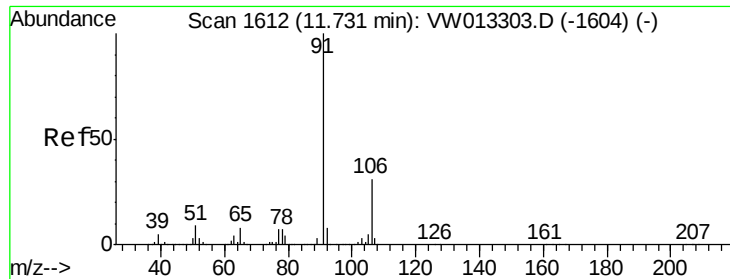
MMDadoda
 10/9/2019 2:13:14 PM



#52
 Chlorobenzene
 Concen: 2.005 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
112	100		
77	53.9	46.5	69.7
114	28.8	23.0	42.8





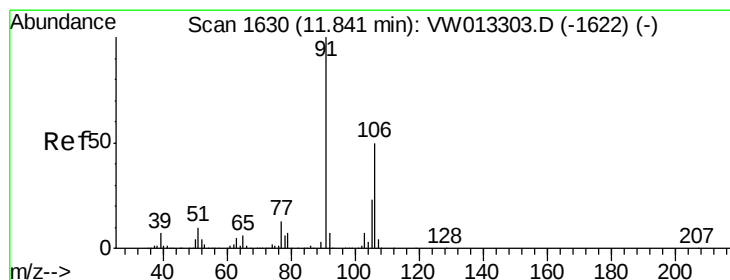
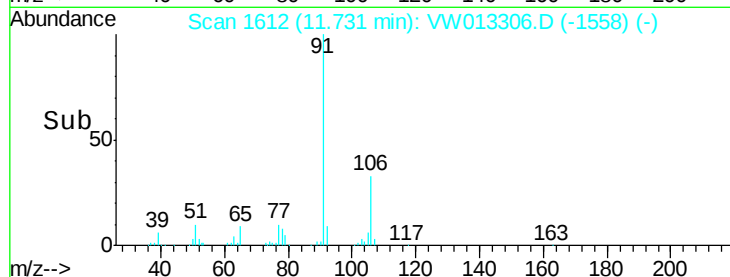
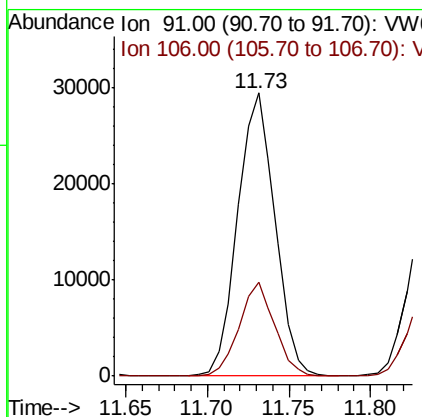
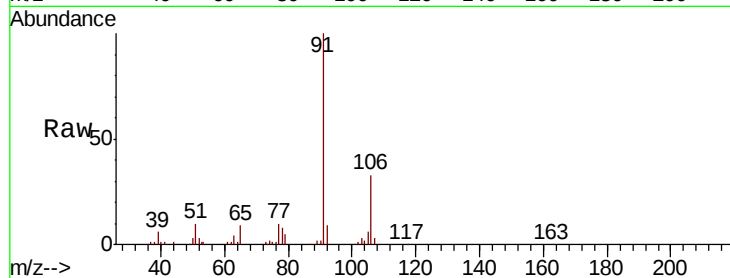
#53
Ethylbenzene
Concen: 1.925 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion: 91 Resp: 46967
Ion Ratio Lower Upper
91 100
106 33.2 20.8 38.6

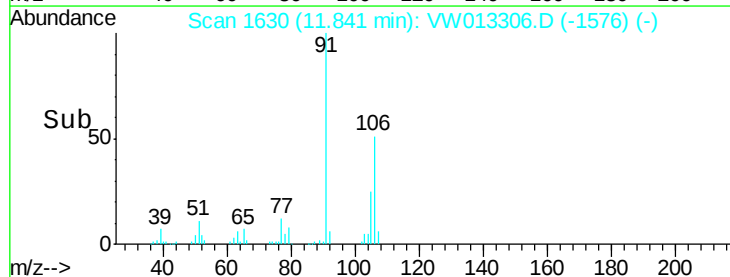
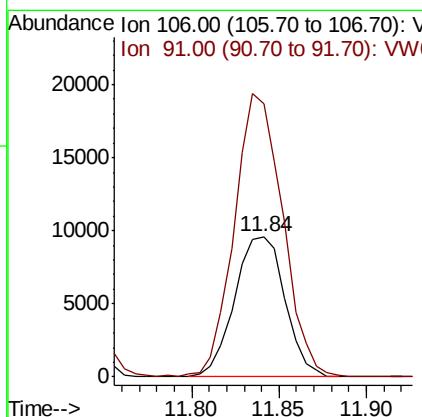
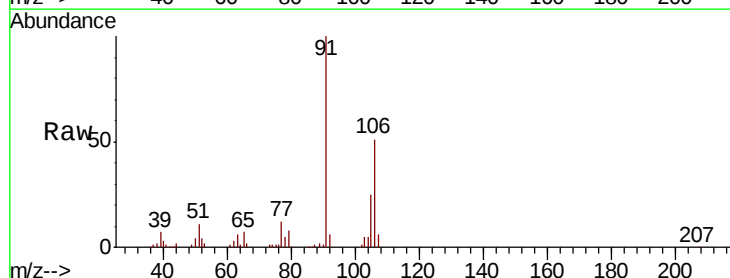
Manual Integrations
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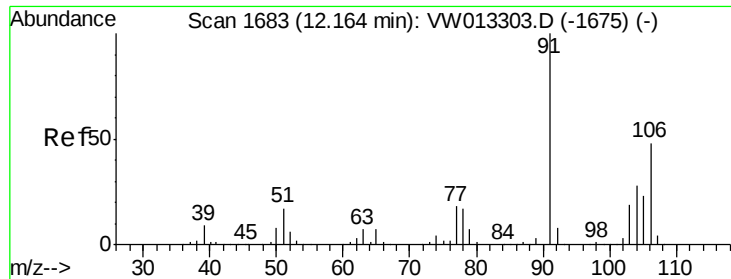
MMDadoda
10/9/2019 2:13:14 PM



#54
m,p-Xylene
Concen: 2.047 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion:106 Resp: 19179
Ion Ratio Lower Upper
106 100
91 194.5 138.3 256.9





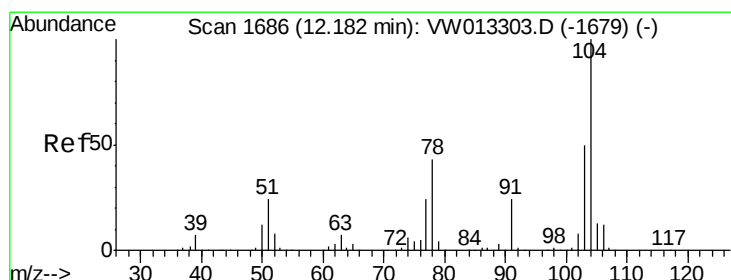
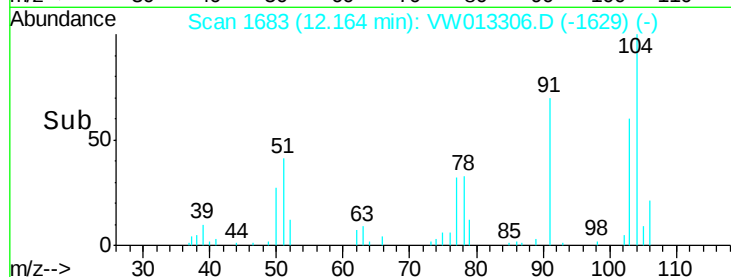
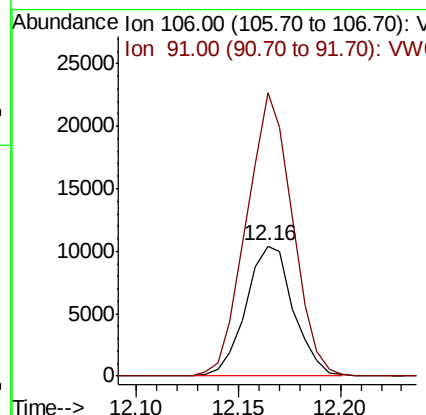
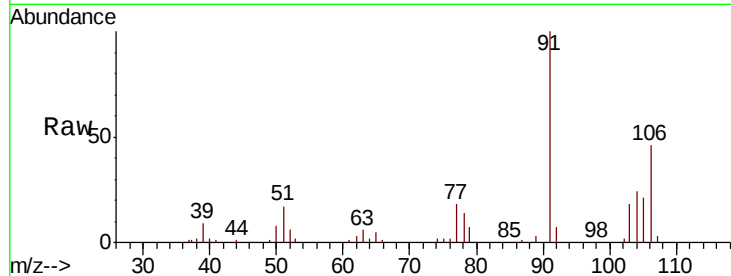
#55
o-xylene
Concen: 1.913 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion:106 Resp: 16911
Ion Ratio Lower Upper
106 100
91 217.1 145.9 271.1

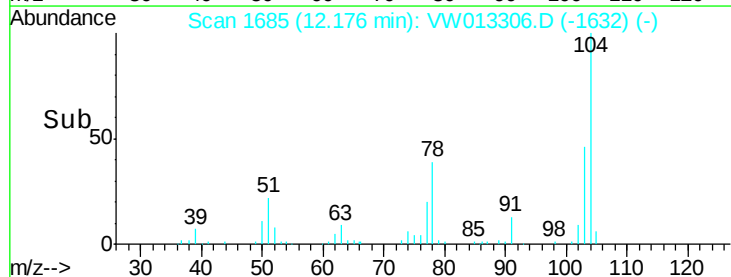
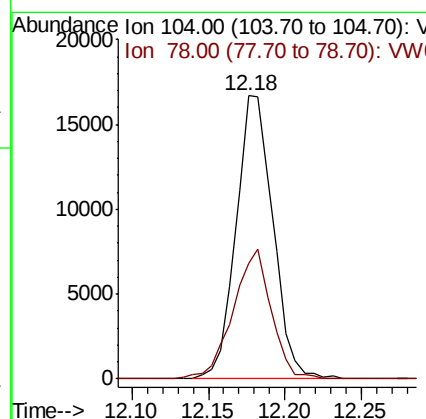
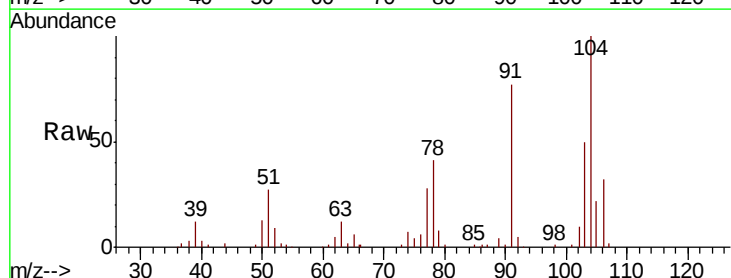
Manual Integrations
APPROVED

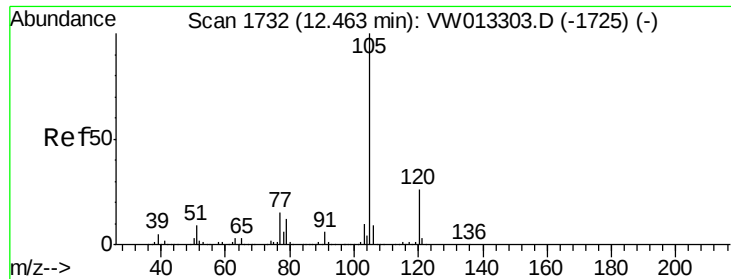
MMDadoda
10/9/2019 2:13:14 PM



#56
Styrene
Concen: 1.842 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion:104 Resp: 27915
Ion Ratio Lower Upper
104 100
78 41.1 29.8 55.4





#57

Isopropylbenzene

Concen: 1.906 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

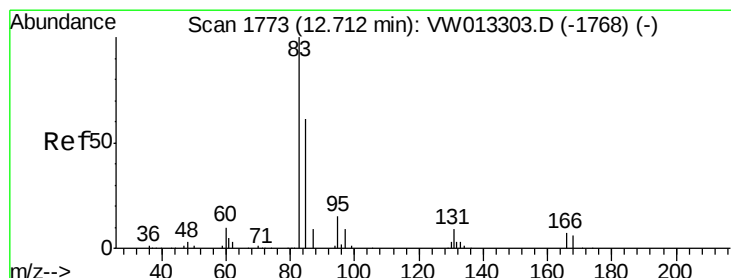
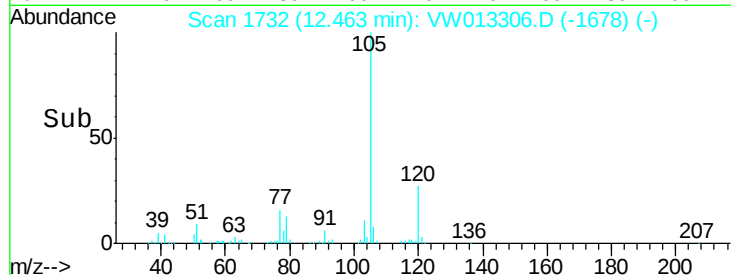
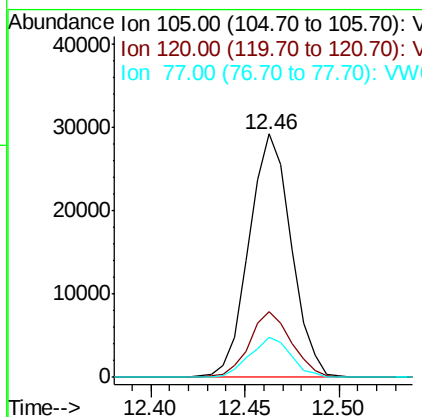
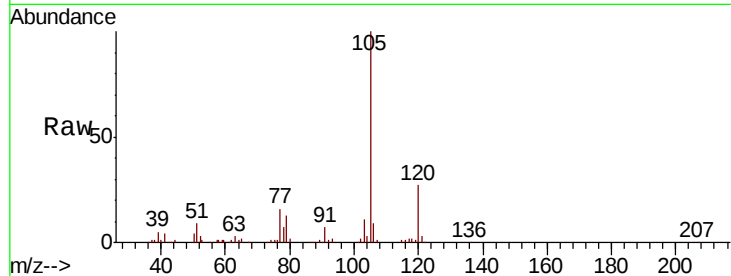
ClientSampleId :

MDL02

Tot Ion:	105	Resp:	45564
Ion Ratio	Lower	Upper	
105	100		
120	26.8	21.4	32.2
77	15.9	11.8	17.6

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.362 ug/L

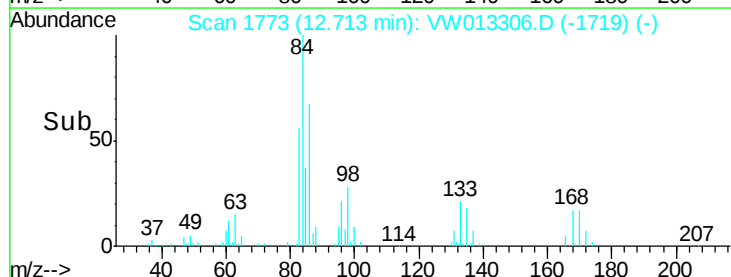
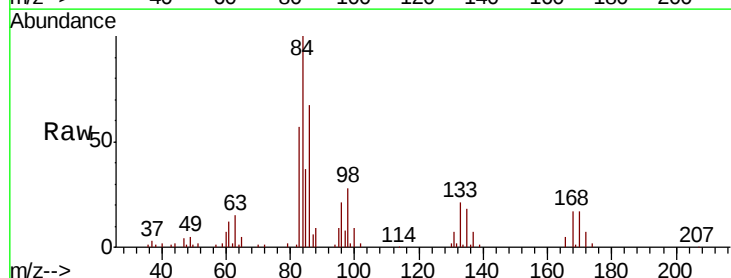
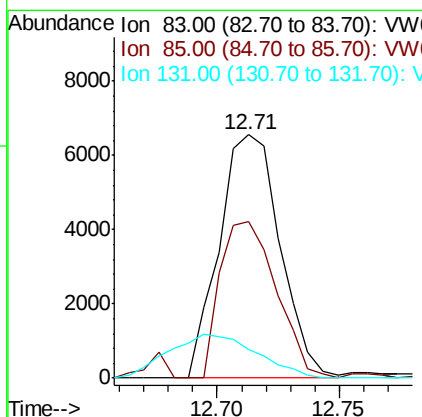
RT: 12.71 min Scan# 1773

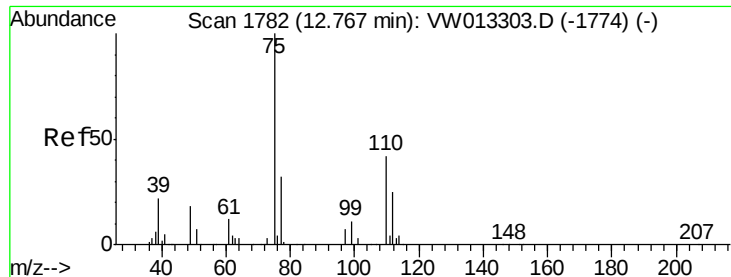
Delta R.T. -0.00 min

Lab File: VW013306.D

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Tgt Ion:	83	Resp:	11340
Ion Ratio	Lower	Upper	
83	100		
85	64.3	45.2	84.0
131	11.7	8.9	13.3





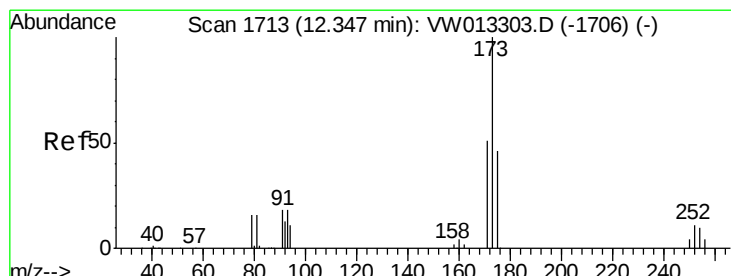
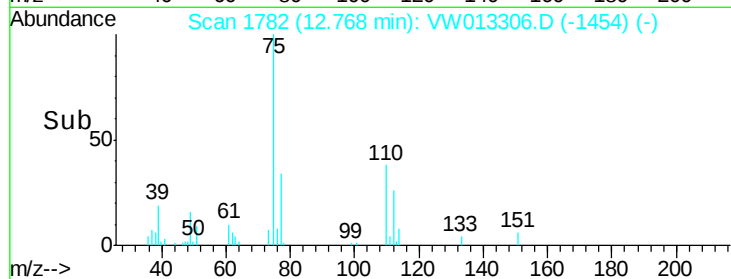
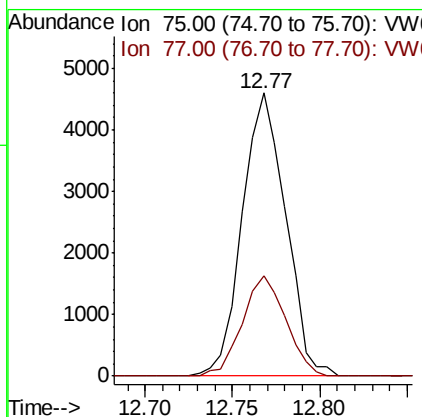
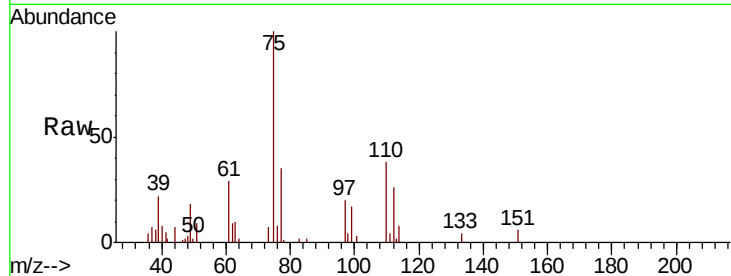
#59
 1,2,3-Trichloropropane
 Concen: 2.210 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 7916
 Ion Ratio Lower Upper
 75 100
 77 35.6 25.8 38.8

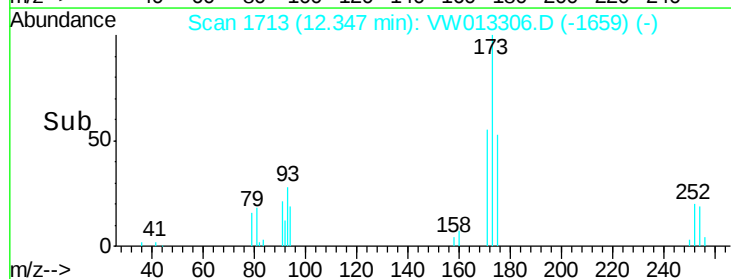
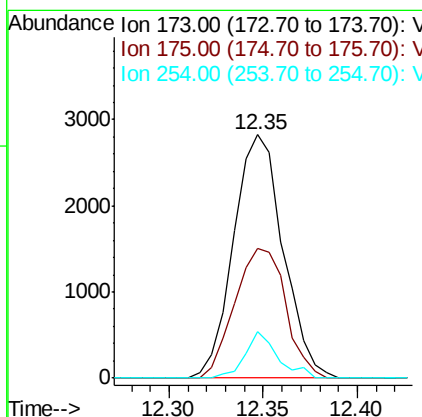
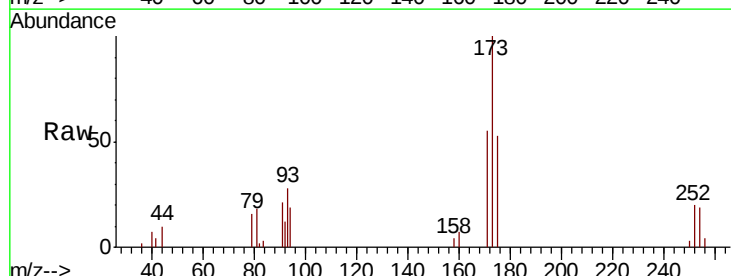
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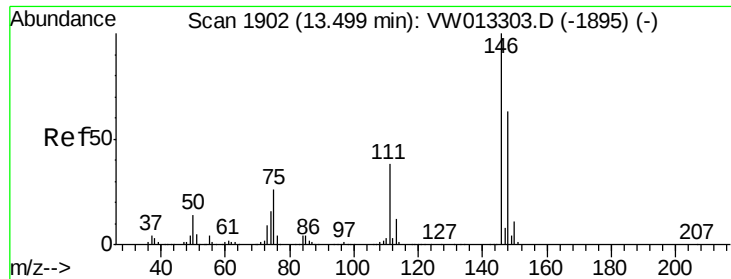
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#62
 Bromoform
 Concen: 1.841 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion: 173 Resp: 5146
 Ion Ratio Lower Upper
 173 100
 175 54.5 39.3 58.9
 254 12.7 9.1 13.7





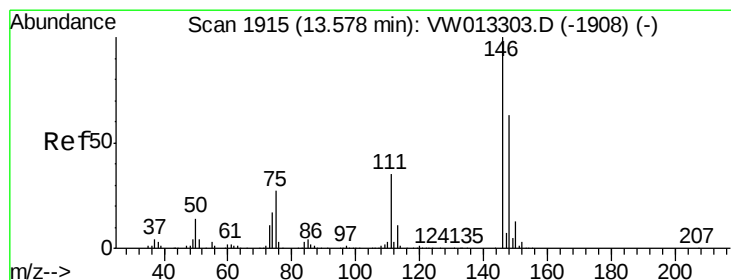
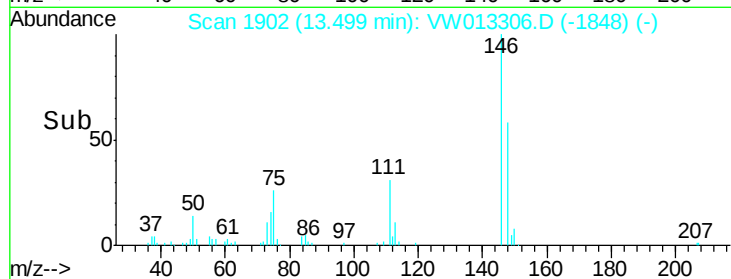
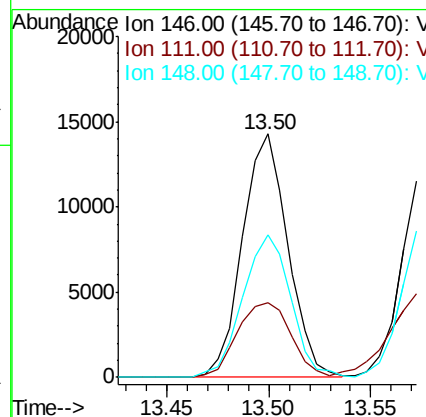
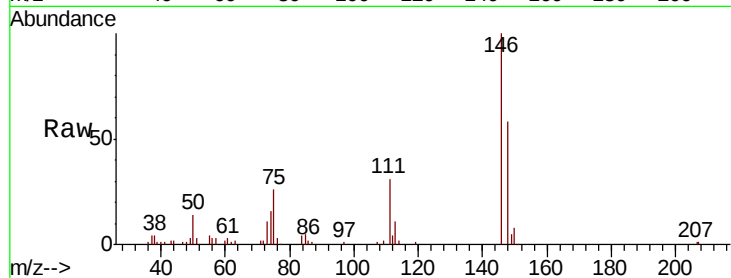
#63
 1,3-Dichlorobenzene
 Concen: 2.028 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	30.8	26.7	49.5
148	58.4	45.0	83.6

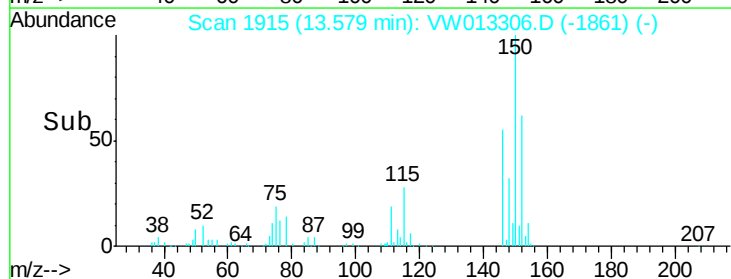
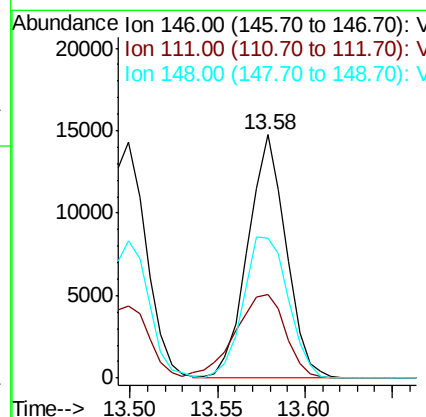
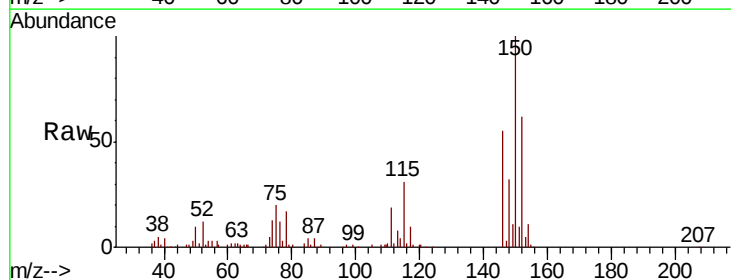
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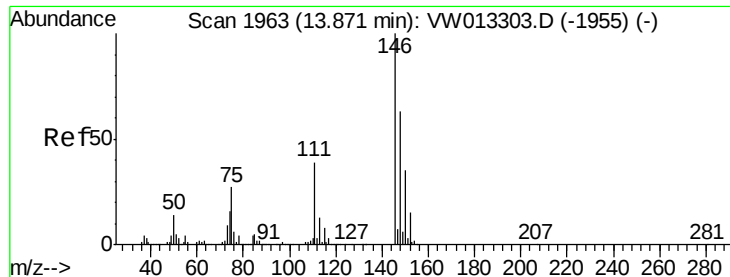
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#64
 1,4-Dichlorobenzene
 Concen: 2.041 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.1	24.2	45.0
148	57.3	45.1	83.7





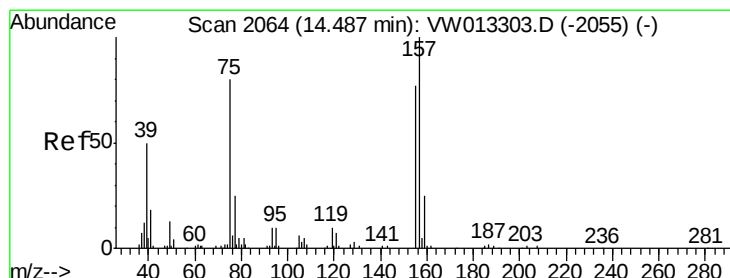
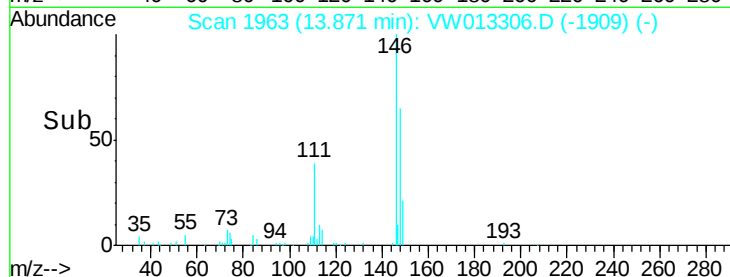
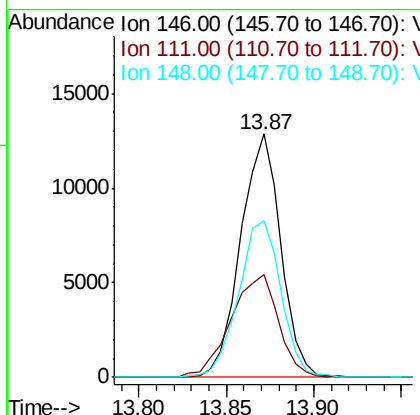
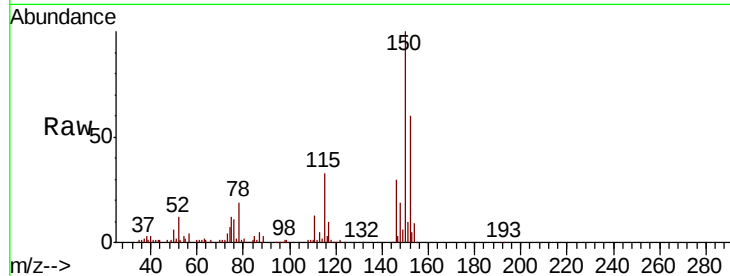
#65
 1,2-Dichlorobenzene
 Concen: 2.073 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	30.8	46.2
148	64.1	52.5	78.7

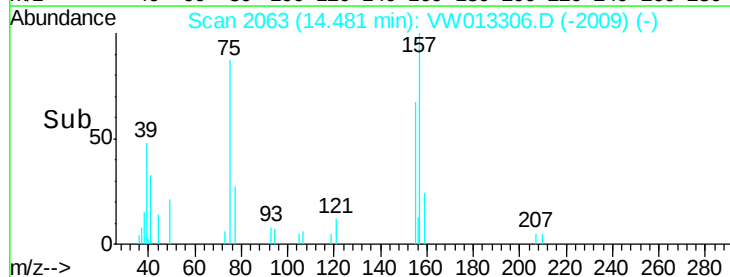
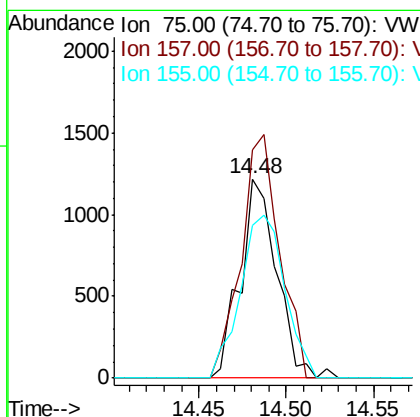
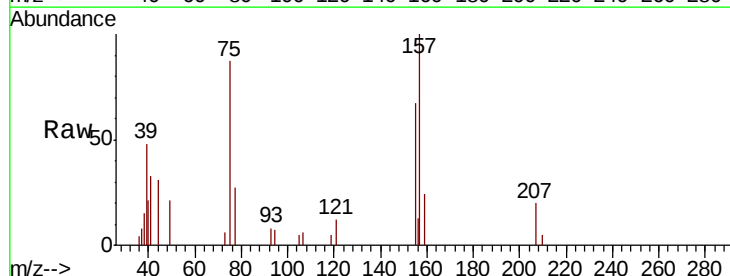
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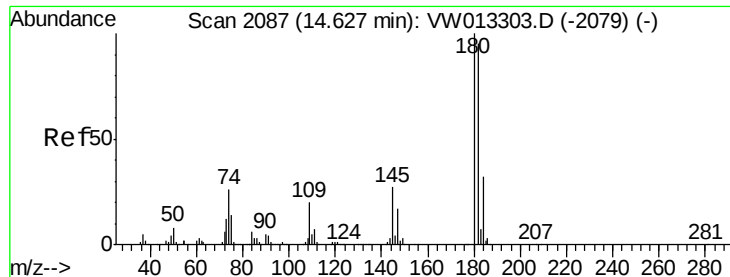
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.275 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Lower	Upper
75	100		
157	114.4	97.8	146.8
155	76.4	78.4	117.6#





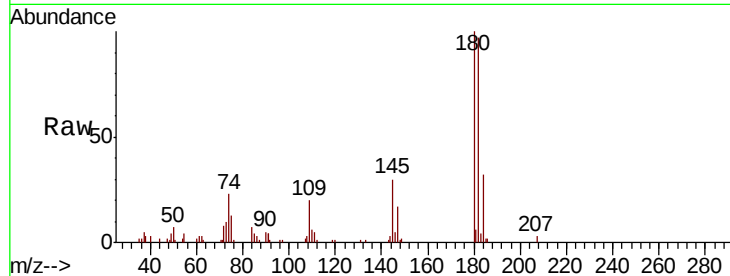
#67
 1,3,5-Trichlorobenzene
 Concen: 1.915 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion:	180	Resp:	16037
Ion Ratio	Lower	Upper	
180	100		
182	98.0	76.4	114.6
184	32.0	23.9	35.9
145	30.3	21.7	32.5

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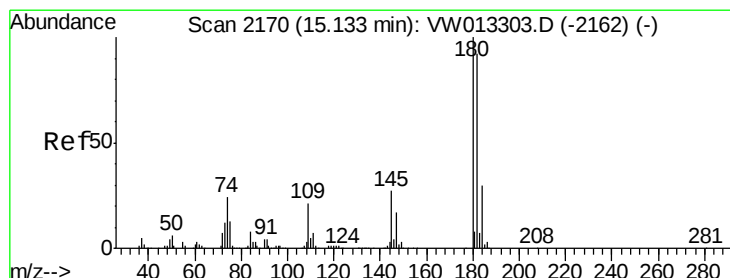
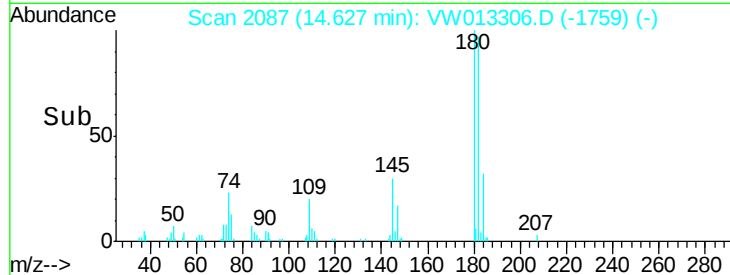
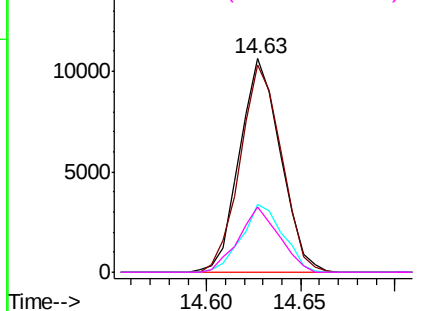


Abundance Ion 180.00 (179.70 to 180.70): V

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



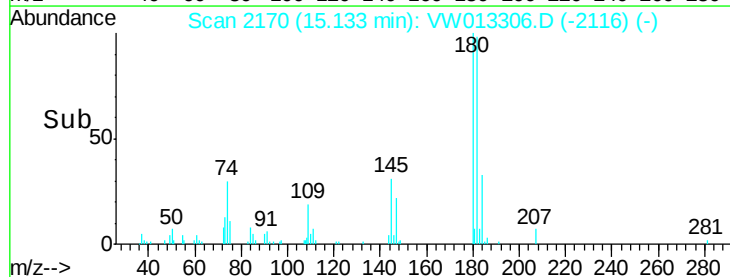
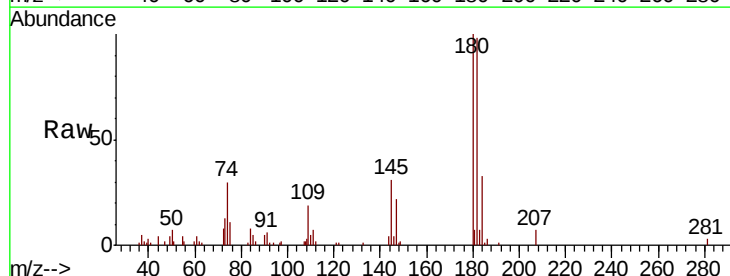
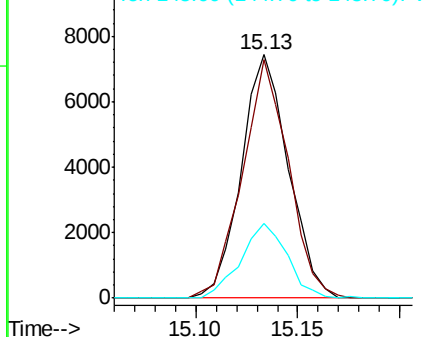
#68
 1,2,4-trichlorobenzene
 Concen: 1.784 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

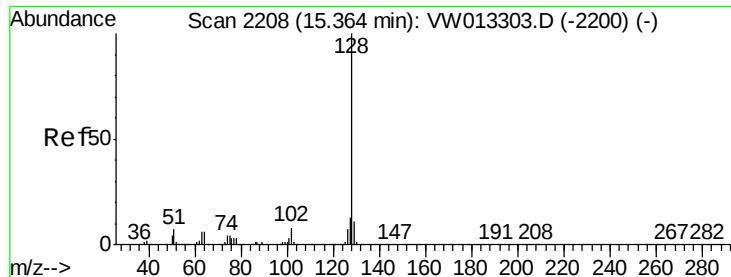
Tgt Ion:	180	Resp:	11925
Ion Ratio	Lower	Upper	
180	100		
182	96.0	75.9	113.9
145	30.1	23.0	34.4

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





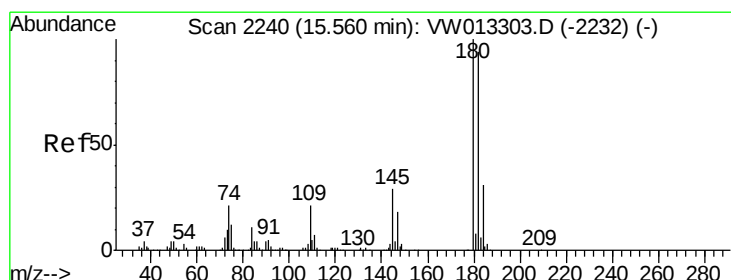
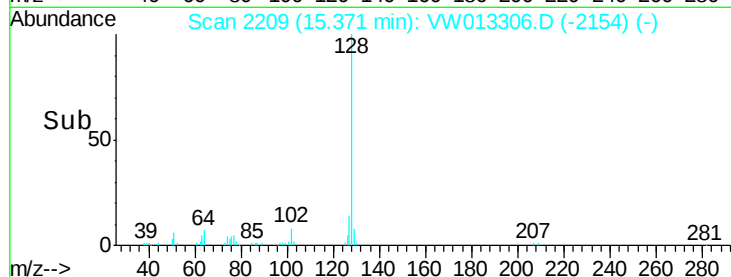
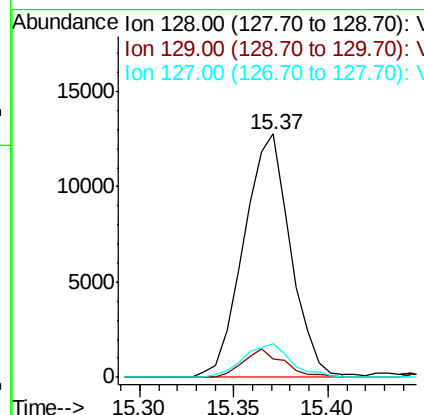
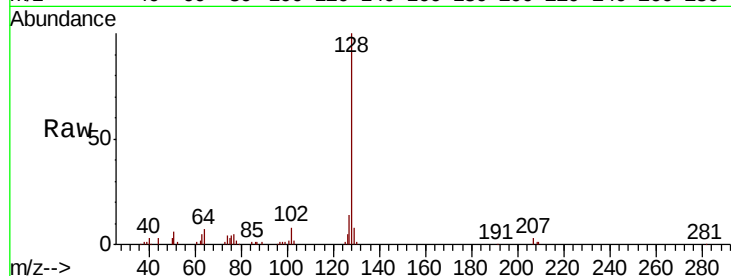
#69
Naphthalene
Concen: 1.715 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Instrument :
MSVOA_W
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	21898		
129	10.3		8.7	13.1
127	14.0		10.6	15.8

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#70
1,2,3-Trichlorobenzene
Concen: 1.895 ug/L
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	11519		
182	95.2		78.2	117.4
145	29.1		24.1	36.1

