

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030119\
 Data File : VW008917.D
 Acq On : 01 Mar 2019 12:06
 Operator : SY/VA
 Sample : K1657-22
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DB639

Manual Integrations
 APPROVED

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 3/5/2019 11:47:17 PM

Quant Time: Mar 02 03:08:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022019S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 02 02:55:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	430243	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	416674	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	221918	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	158073	23.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.48%
7) Chloroethane-d5	2.88	69	146671	24.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.64%
10) 1,1-Dichloroethene-d2	4.02	63	283331	25.45	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	101.80%
20) 2-Butanone-d5	7.08	46	97772	48.99	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.98%
24) Chloroform-d	7.65	84	252123m	24.23	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.92%
26) 1,2-Dichloroethane-d4	8.30	65	161833	26.36	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.44%
29) Benzene-d6	8.27	84	548332	27.41	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	109.64%
33) 1,2-Dichloropropane-d6	9.27	67	163909	27.97	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	111.88%
37) Toluene-d8	10.32	98	543518	27.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.52%
38) trans-1,3-Dichloropropene-	10.58	79	76179	25.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.76%
39) 2-Hexanone-d5	10.93	63	78333	49.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.14%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	145587	24.74	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.96%
61) 1,2-Dichlorobenzene-d4	13.86	152	212771	26.90	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	107.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.21	50	176530	20.663	ug/L	98
6) Bromomethane	2.77	94	68033	11.714	ug/L	100
9) Trichlorofluoromethane	3.26	101	167927	16.033	ug/L	99
12) 1,1-Dichloroethene	4.04	96	121369	22.615	ug/L	92
13) Acetone	4.13	43	131463	69.429	ug/L	99
15) Methyl Acetate	4.68	43	127456	33.749	ug/L	95
16) Methylene chloride	4.92	84	74741	10.743	ug/L	86
17) Methyl tert-butyl Ether	5.43	73	460714	30.526	ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	64575	10.929	ug/L	92
22) cis-1,2-Dichloroethene	7.17	96	163049	25.730	ug/L	92
23) Bromochloromethane	7.51	128	43483	14.996	ug/L #	84
27) 1,2-Dichloroethane	8.40	62	78532	10.225	ug/L #	95
30) Cyclohexane	7.95	56	102770	10.479	ug/L	95
31) 1,1,1-Trichloroethane	7.87	97	102604	10.666	ug/L	96
32) Carbon tetrachloride	8.07	117	115880	13.181	ug/L	100
35) Trichloroethene	9.09	95	261691	42.891	ug/L	97
36) Methylcyclohexane	9.34	83	279610	25.827	ug/L	95

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 Quant Title : VOC Analysis
 QLast Update : Sat Mar 02 02:55:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Dichloropropane	9.37	63	75791	13.573	ug/L	98
41) Bromodichloromethane	9.65	83	161554	21.278	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	160878	17.762	ug/L	98
44) Toluene	10.39	91	562107	21.630	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	66901	8.272	ug/L	92
47) Tetrachloroethene	10.86	164	231943	41.758	ug/L	93
49) 2-Hexanone	10.97	43	158050	39.957	ug/L #	90
50) Dibromochloromethane	11.13	129	114890	20.299	ug/L	97
53) Ethylbenzene	11.73	91	476918	15.795	ug/L	99
54) m,p-Xylene	11.85	106	122248	10.296	ug/L	91
55) o-xylene	12.17	106	142470	12.473	ug/L	90
57) Isopropylbenzene	12.47	105	390074	12.802	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	302487	20.884	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	141319	10.534	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	19466	16.341	ug/L	95

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

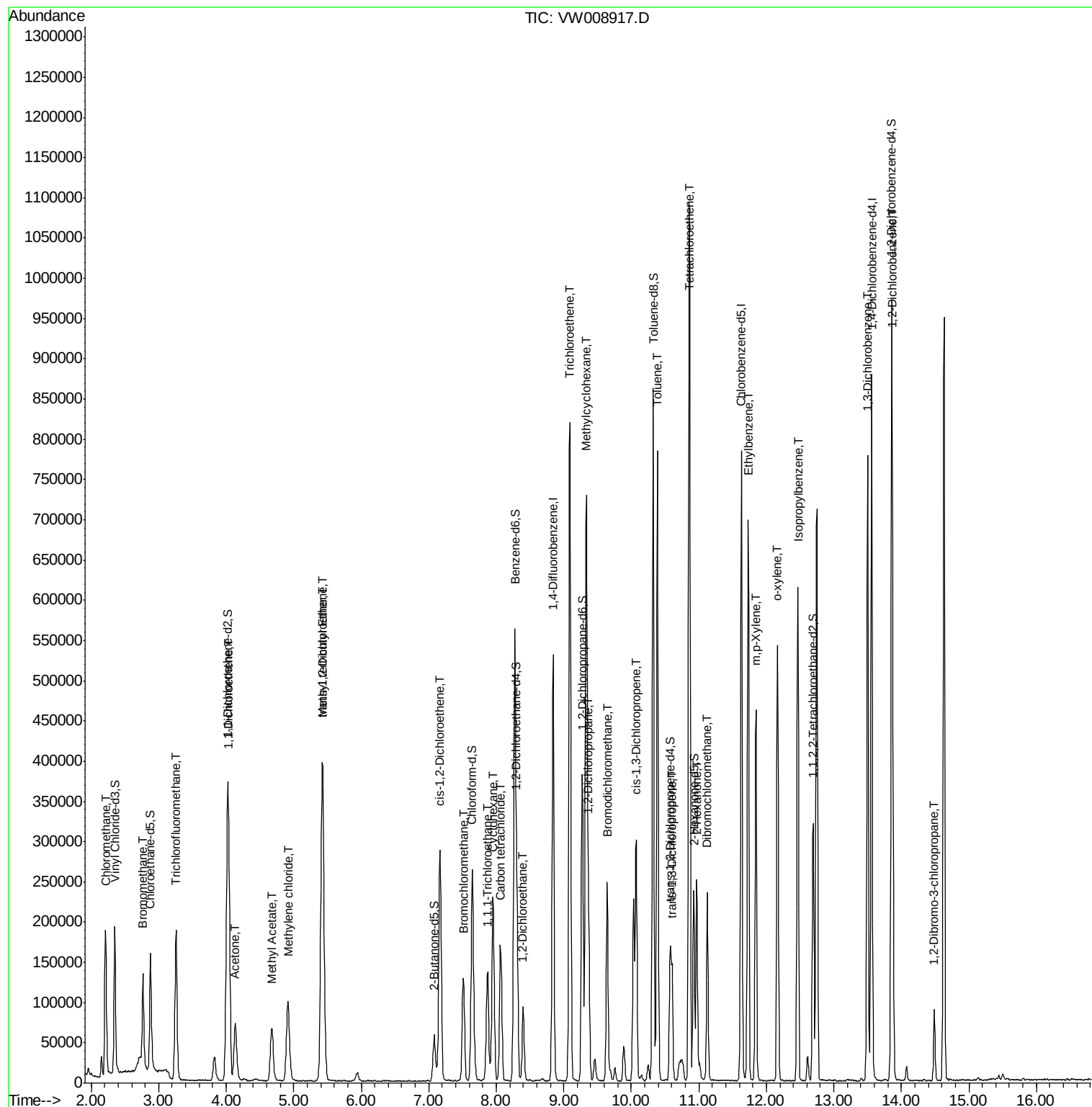
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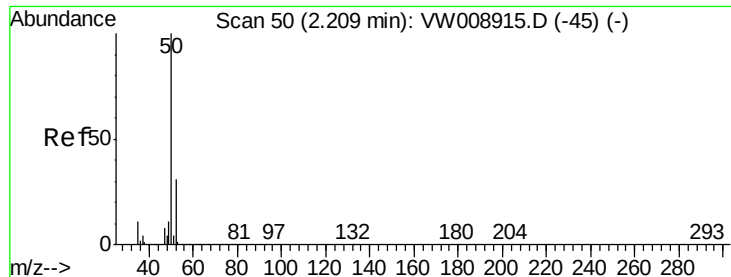
Instrument :
MSVOA_W
ClientSampleId :
DB639

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QLast Update : Sat Mar 02 02:55:16 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 20.663 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

DB639

Tot Ion: 50 Resp: 176530

Ion Ratio Lower Upper

50 100

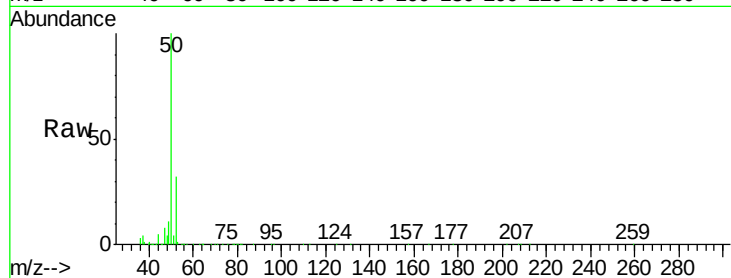
52 31.8 21.4 39.8

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW

2.21

120000

100000

80000

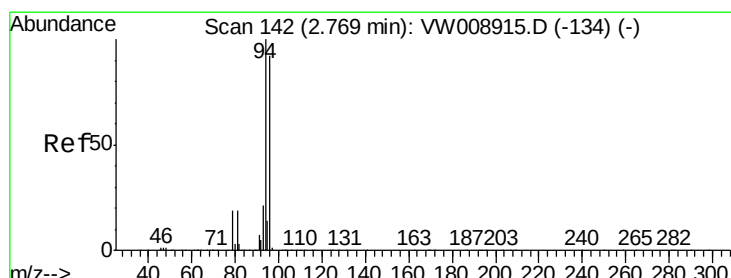
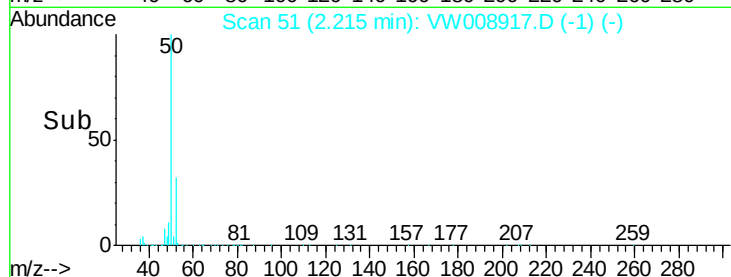
60000

40000

20000

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Time-->



#6

Bromomethane

Concen: 11.714 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW008917.D

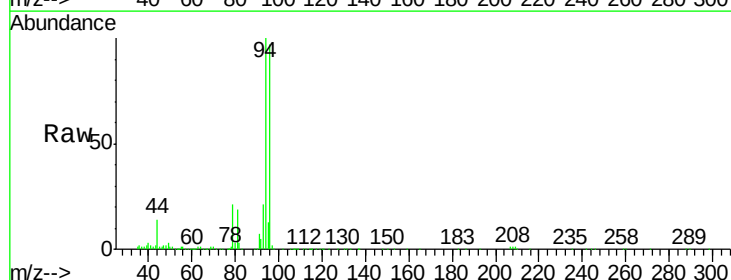
Acq: 01 Mar 2019 12:06

Tgt Ion: 94 Resp: 68033

Ion Ratio Lower Upper

94 100

96 92.7 9.2 175.4



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

2.77

40000

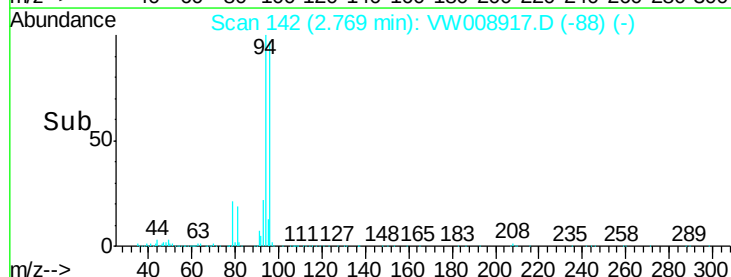
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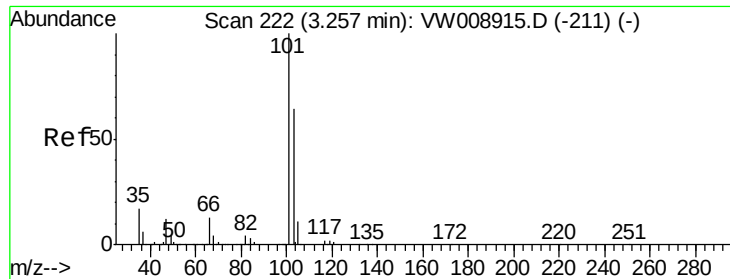
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#9

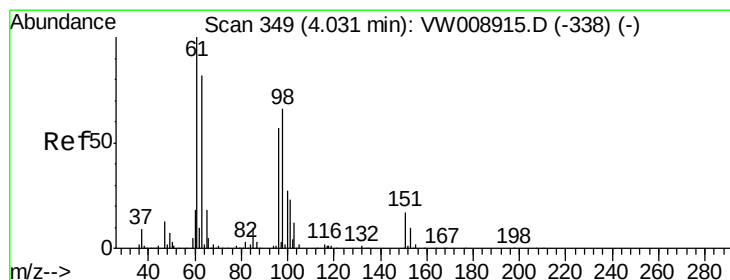
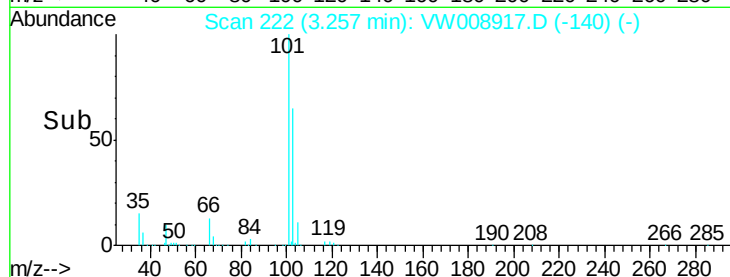
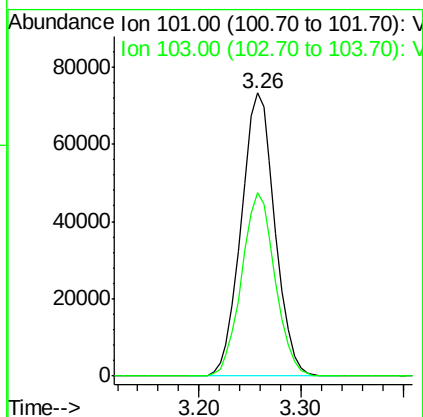
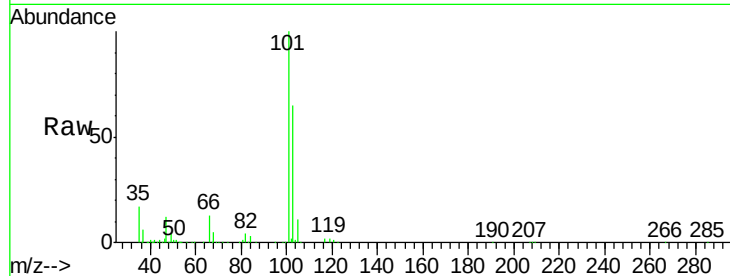
Trichlorofluoromethane
Concen: 16.033 ug/L
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
DB639

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	44.7	83.1

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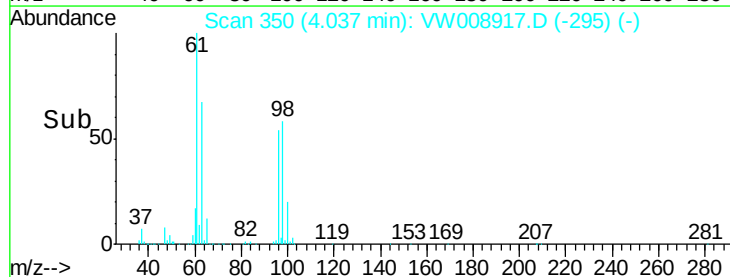
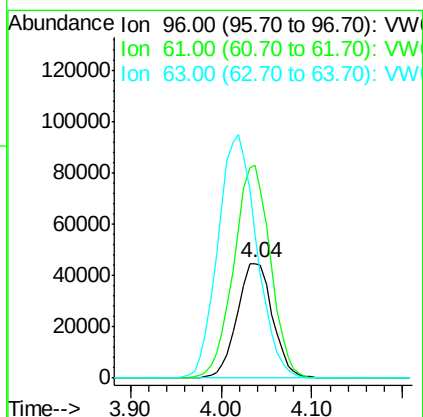
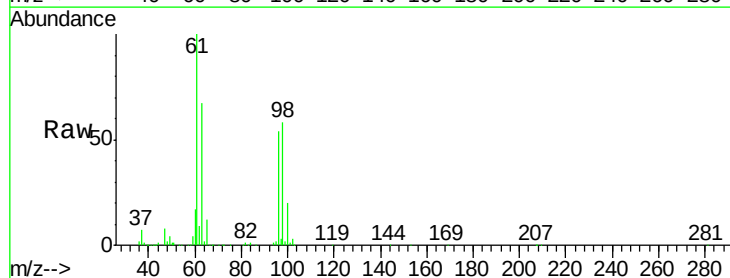
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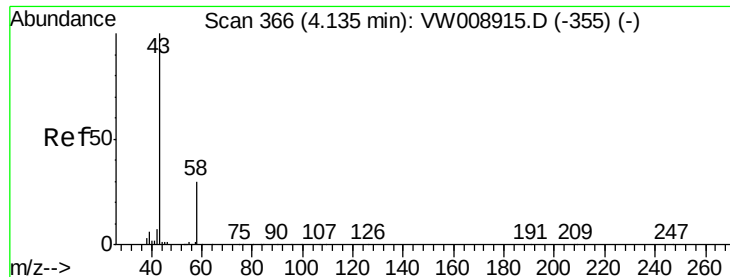


#12

1,1-Dichloroethene
Concen: 22.615 ug/L
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	185.4	120.3	223.3
63	124.7	91.6	170.0





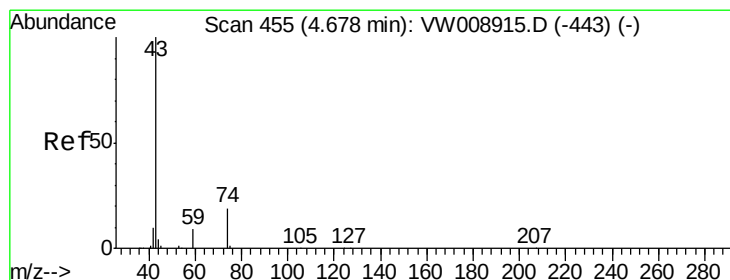
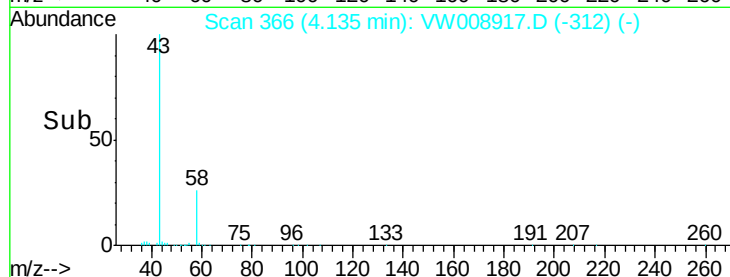
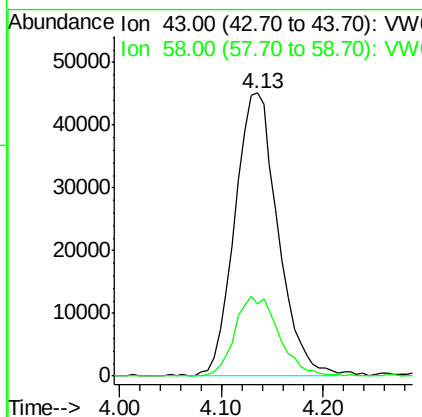
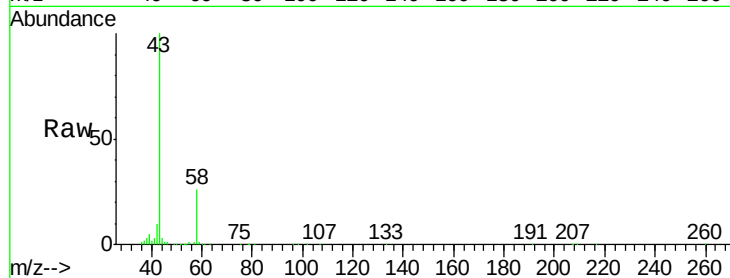
#13
Acetone
Concen: 69.429 ug/L
RT: 4.13 min Scan# 366
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Instrument :
MSVOA_W
ClientSampled :
DB639

Tot Ion	43	Resp	131463
Ion Ratio	43	100	Lower Upper
	58	28.6	0.0 58.6

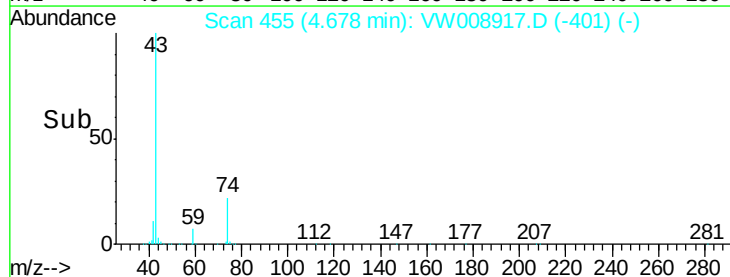
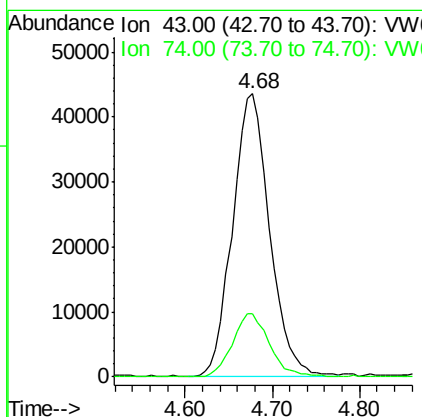
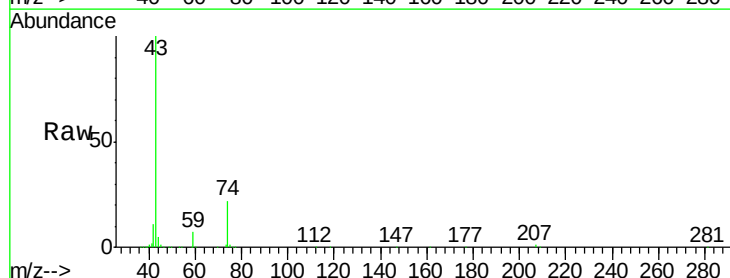
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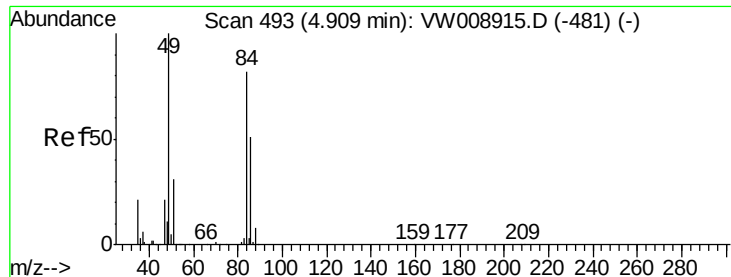
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#15
Methyl Acetate
Concen: 33.749 ug/L
RT: 4.68 min Scan# 455
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	43	Resp	127456
Ion Ratio	43	100	Lower Upper
	74	22.5	20.2 30.2





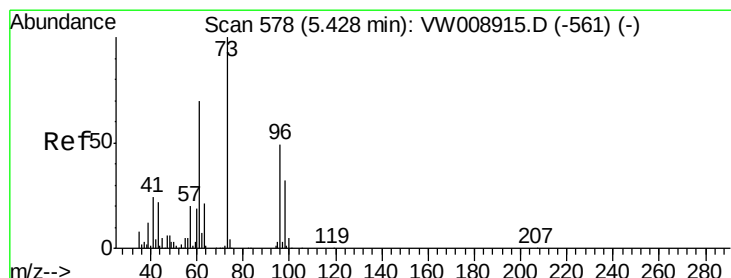
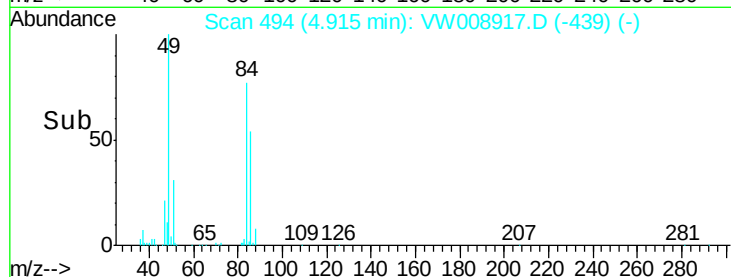
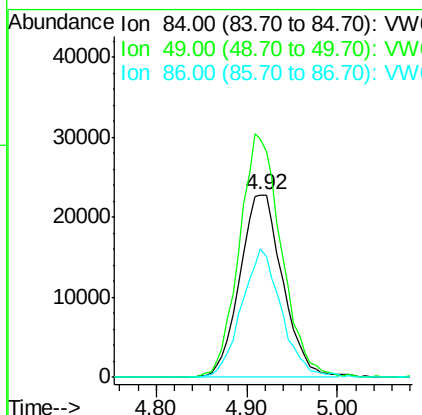
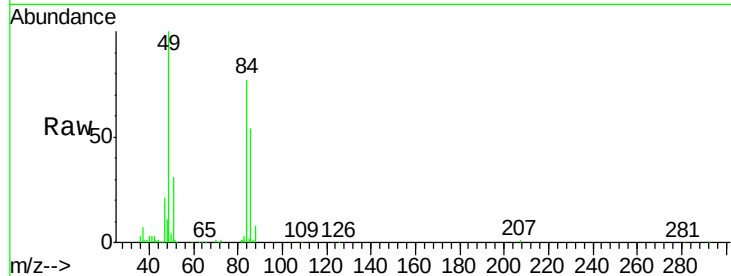
#16
Methylene chloride
Concen: 10.743 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
DB639

Tot Ion	Ratio	Lower	Upper
84	100		
49	130.4	79.2	147.0
86	70.2	43.2	80.2

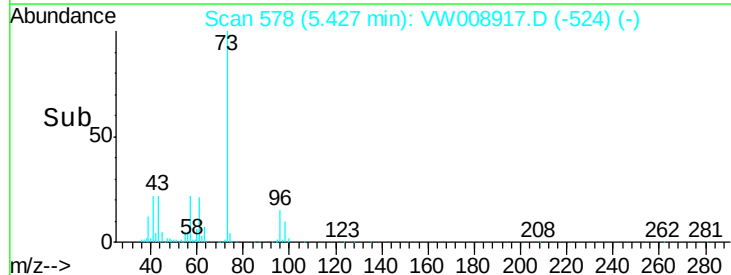
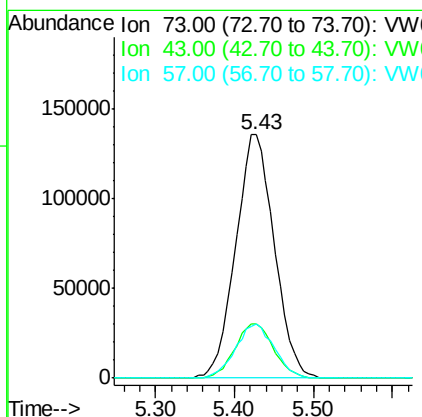
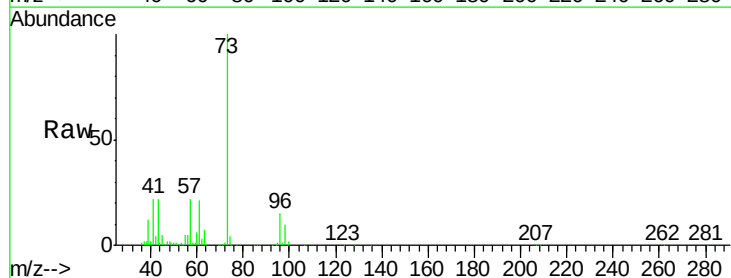
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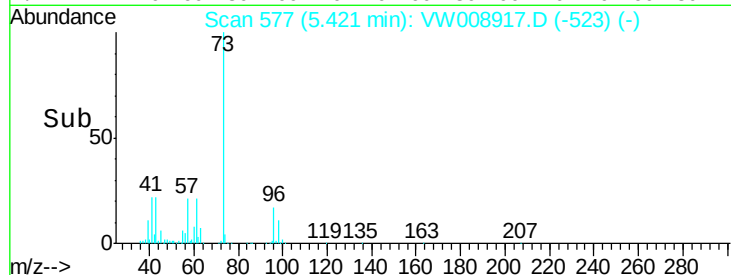
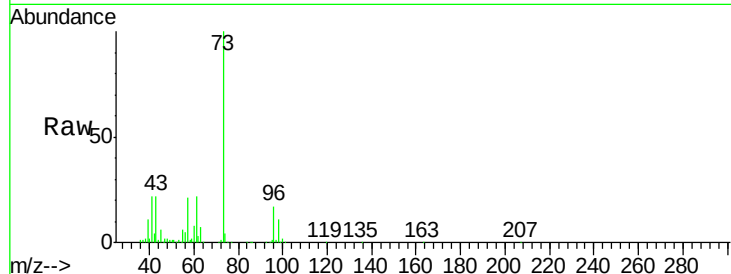
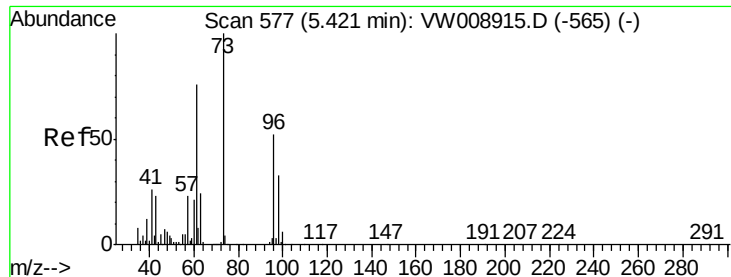
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#17
Methyl tert-butyl Ether
Concen: 30.526 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.4	18.5	27.7
57	22.2	16.4	24.6





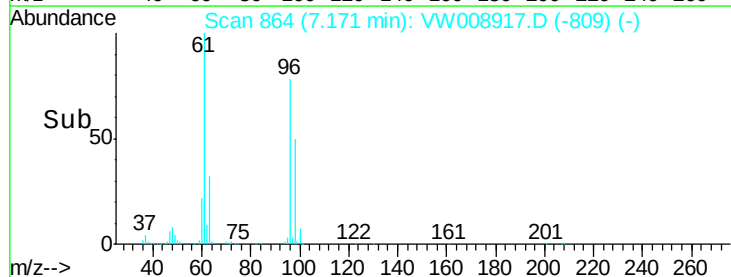
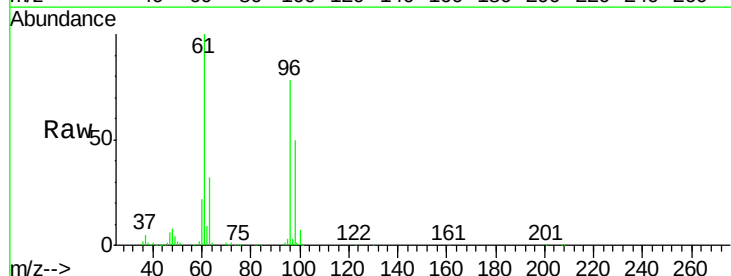
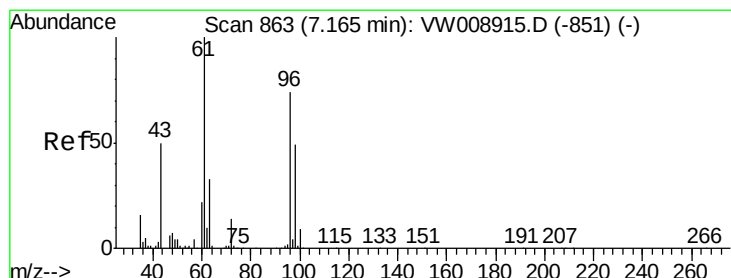
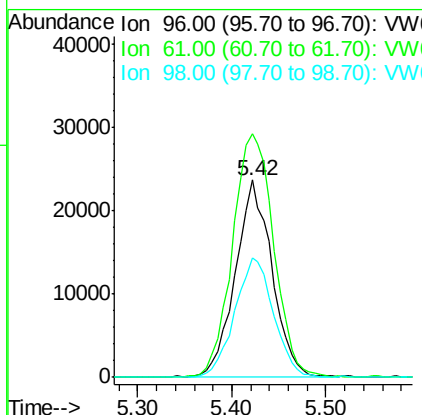
#18
trans-1,2-Dichloroethene
Concen: 10.929 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tot Ion	Ratio	Resp	Lower	Upper
96	100	64575		
61	123.4		91.4	169.8
98	60.3		48.0	89.2

Instrument :
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ClientSampleId :
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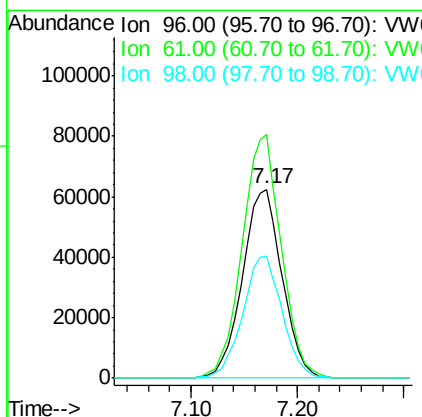
Manual Integrations
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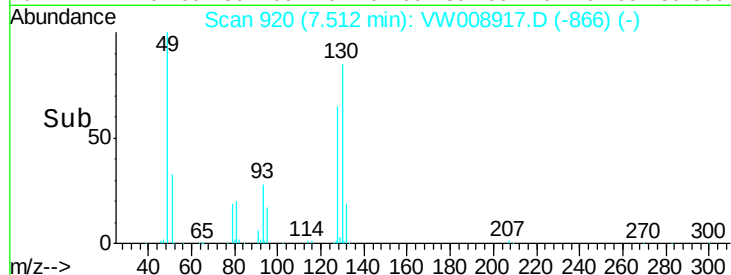
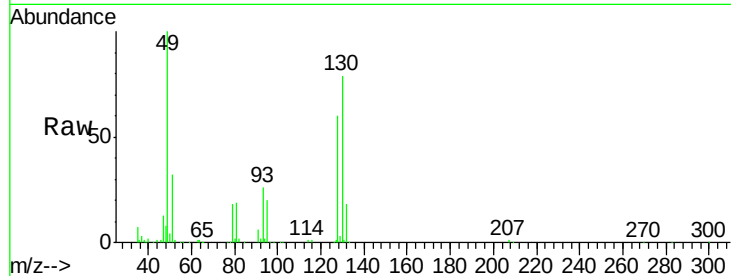
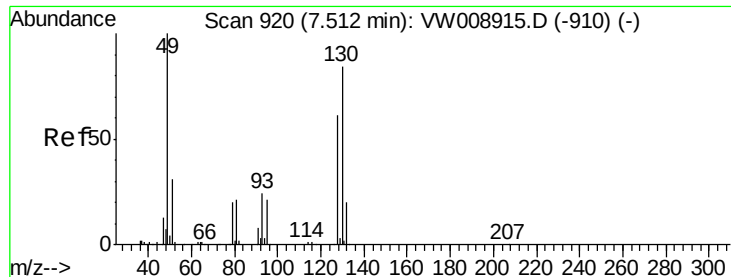
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#22
cis-1,2-Dichloroethene
Concen: 25.730 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	163049		
61	128.9		83.4	155.0
98	64.6		42.3	78.5





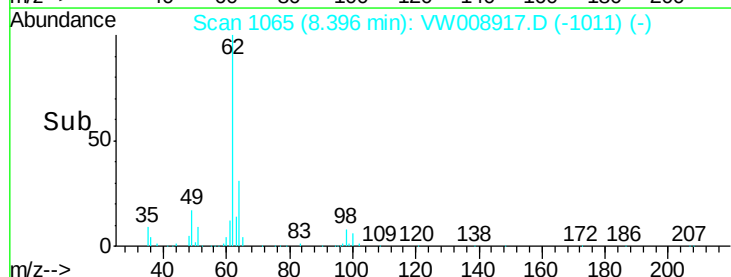
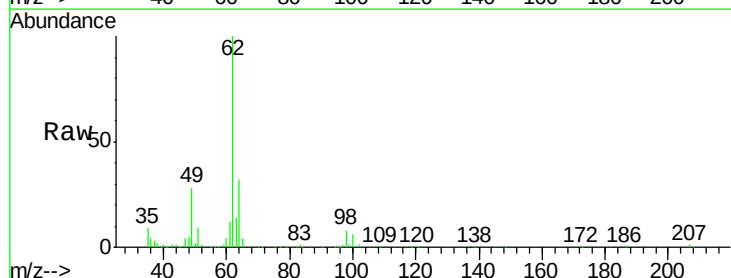
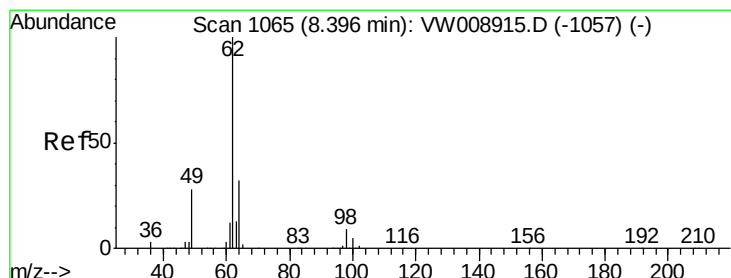
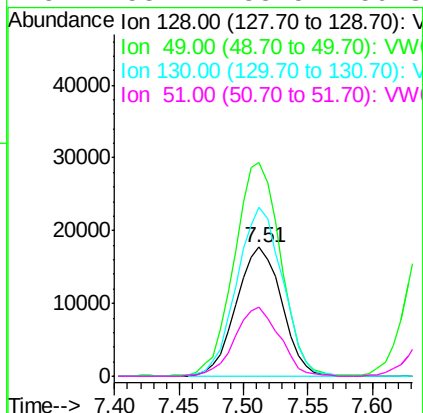
#23
Bromochloromethane
Concen: 14.996 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tot Ion	Ratio	Lower	Upper
128	100		
49	165.8	96.9	180.1
130	131.1	86.2	160.0
51	53.4	33.5	50.3

Instrument :
MSVOA_W
ClientSampleId :
DB639

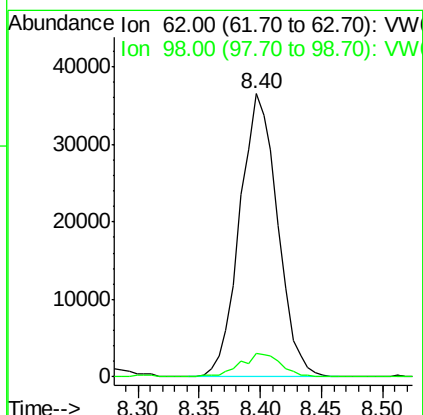
Manual Integrations
APPROVED

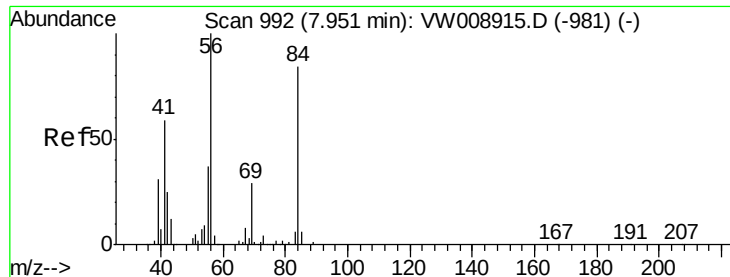
MMDadoda
3/5/2019 11:47:17 PM



#27
1,2-Dichloroethane
Concen: 10.225 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	5.4	8.2





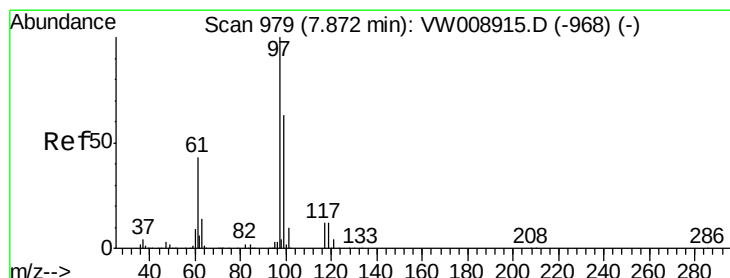
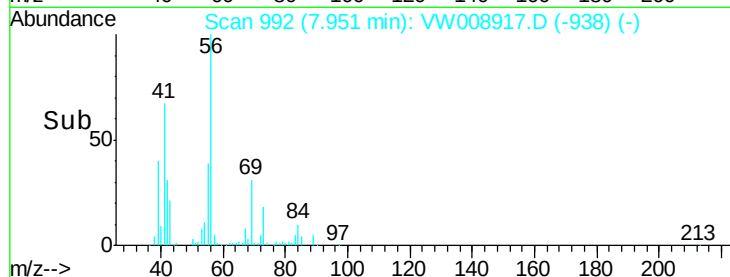
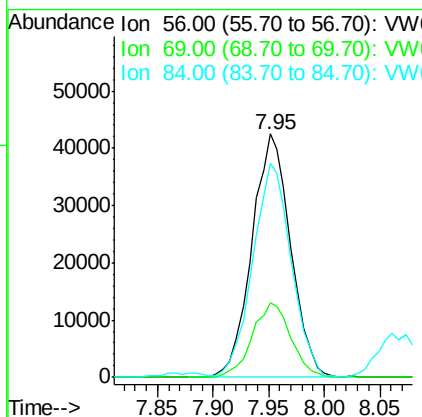
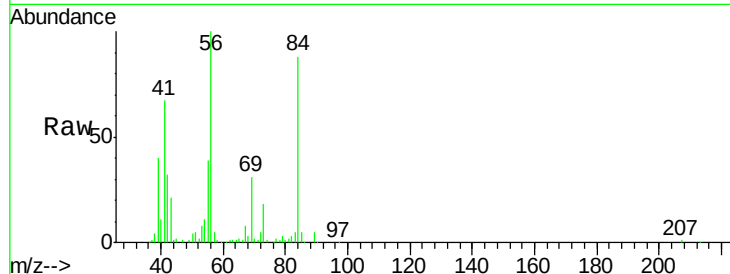
#30
Cyclohexane
Concen: 10.479 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Instrument :
MSVOA_W
ClientSampled :
DB639

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	30.5	26.2	39.4	
84	87.8	74.3	111.5	

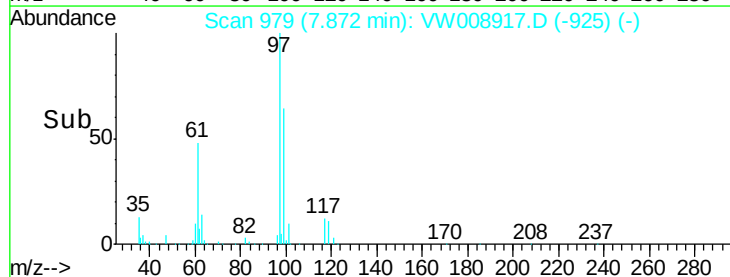
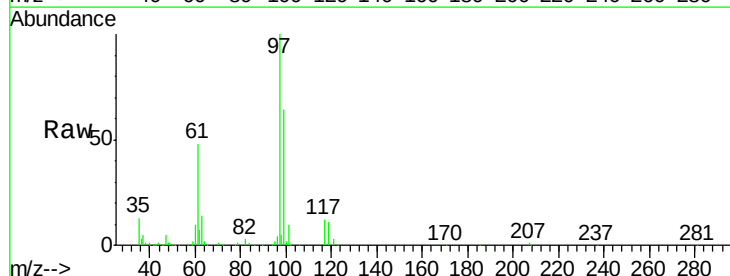
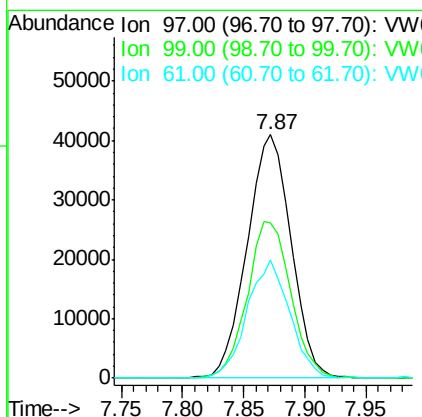
Manual Integrations
APPROVED

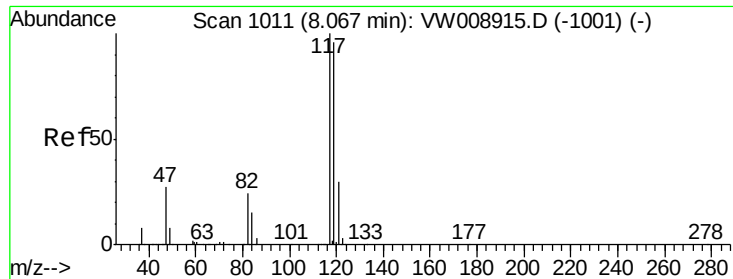
MMDadoda
3/5/2019 11:47:17 PM



#31
1,1,1-Trichloroethane
Concen: 10.666 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	63.6	52.3	78.5	
61	46.7	33.5	50.3	





#32

Carbon tetrachloride

Concen: 13.181 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Instrument :

MSVOA_W

ClientSampled :

DB639

Tot Ion:117 Resp: 115880

Ion Ratio Lower Upper

117 100

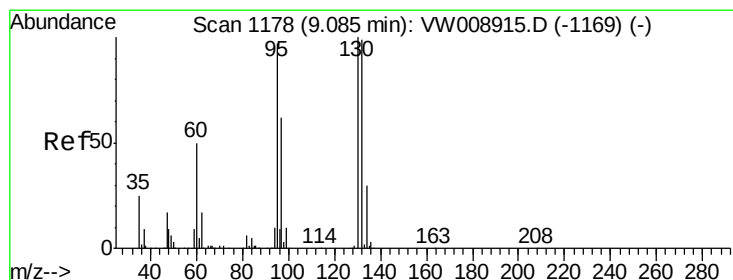
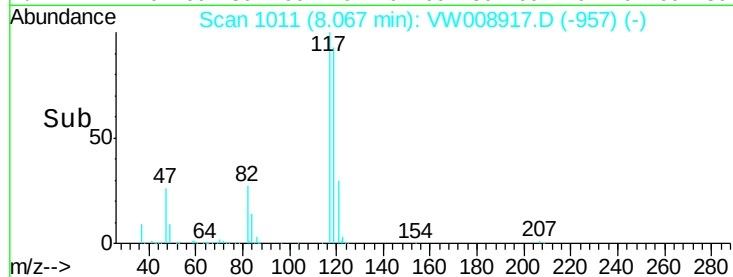
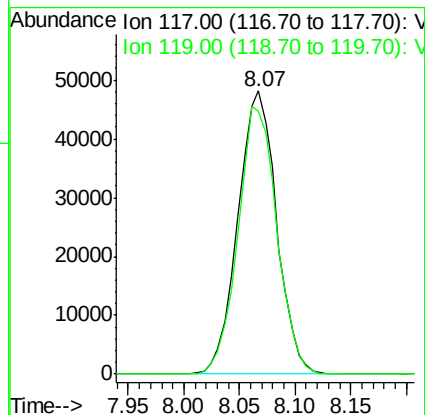
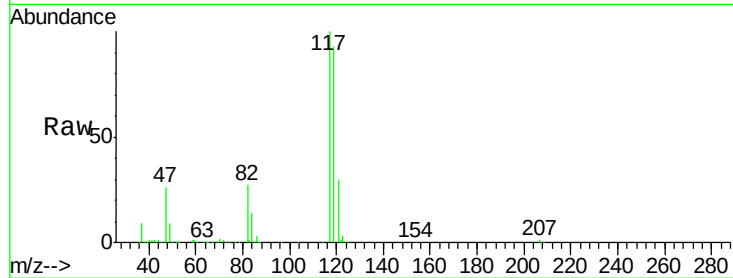
119 95.1 76.0 114.0

Manual Integrations

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#35

Trichloroethene

Concen: 42.891 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Tgt Ion: 95 Resp: 261691

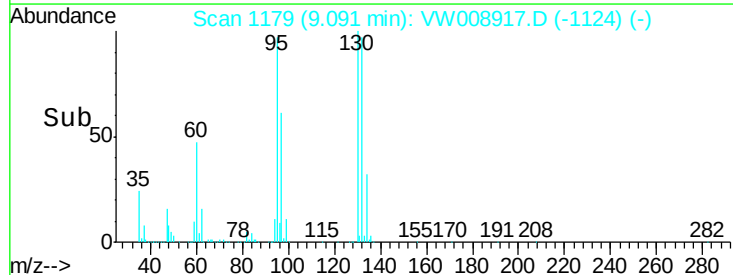
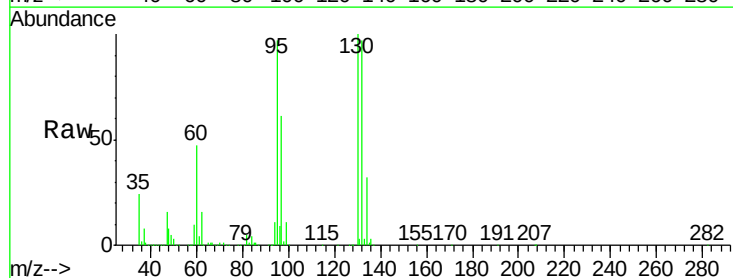
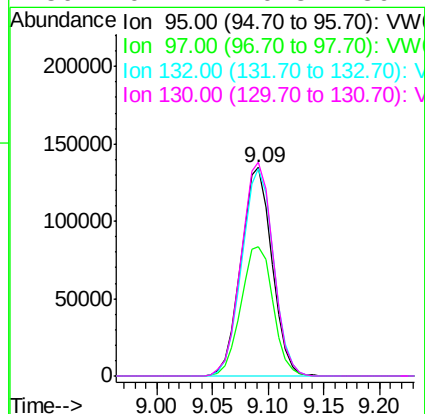
Ion Ratio Lower Upper

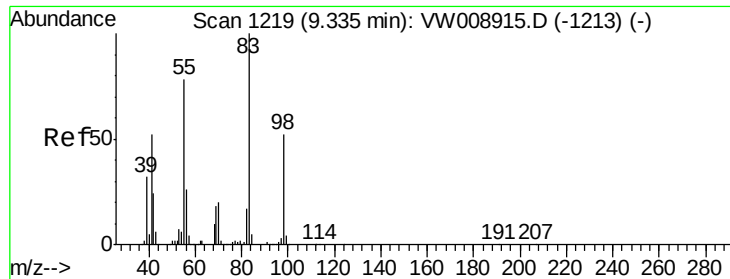
95 100

97 64.1 44.4 82.5

132 101.0 67.8 126.0

130 104.7 70.3 130.7





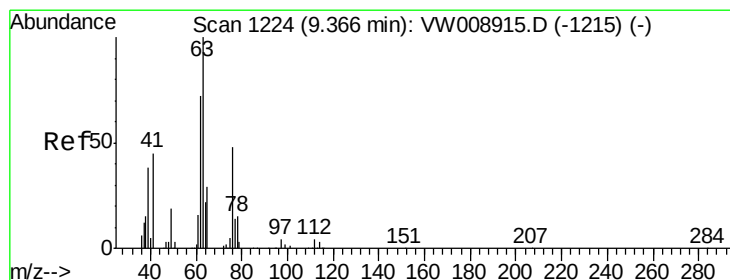
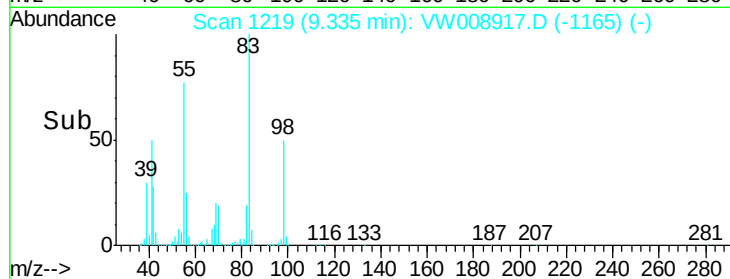
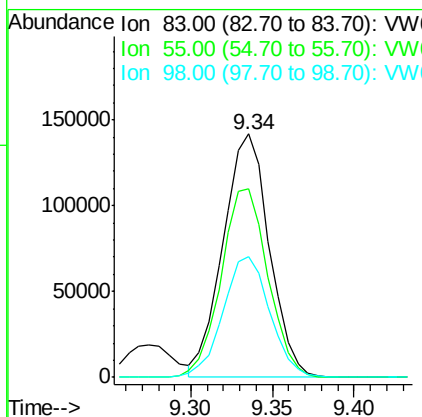
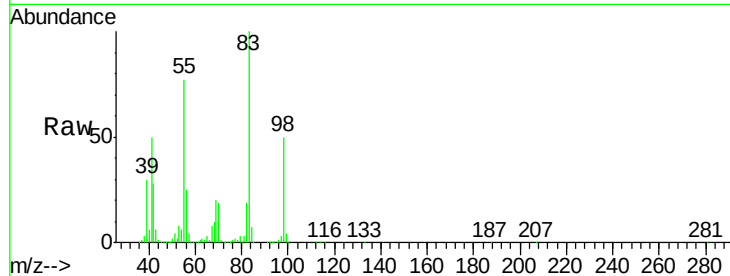
#36
Methylvlcyclohexane
Concen: 25.827 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
DB639

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.6	59.4	89.0
98	50.2	38.2	57.2

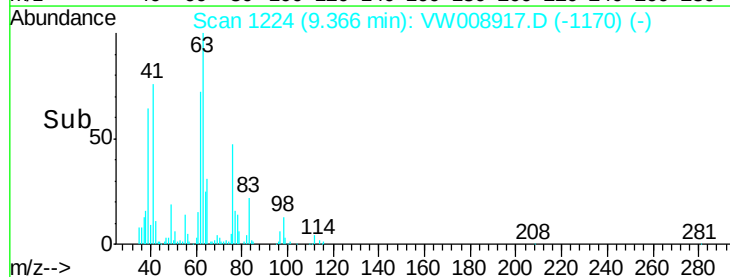
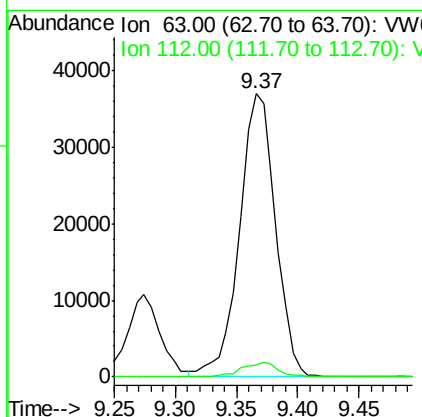
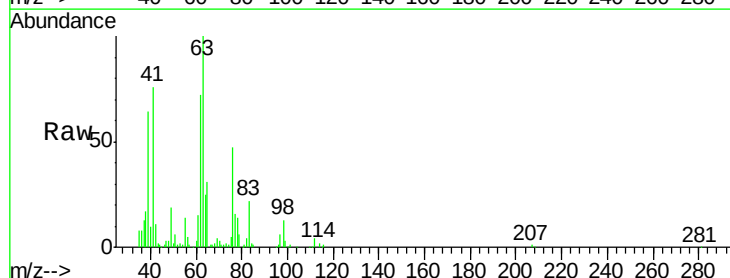
Manual Integrations
APPROVED

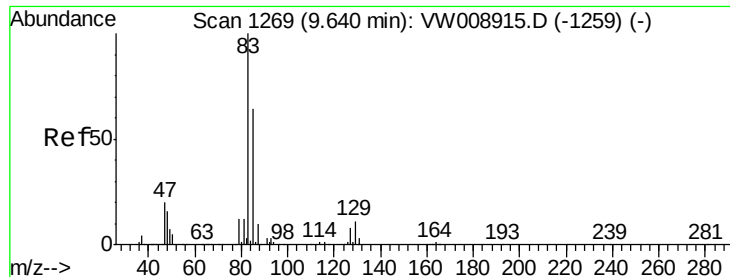
MMDadoda
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#40
1,2-Dichloropropane
Concen: 13.573 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Lower	Upper
63	100		
112	5.2	3.7	5.5





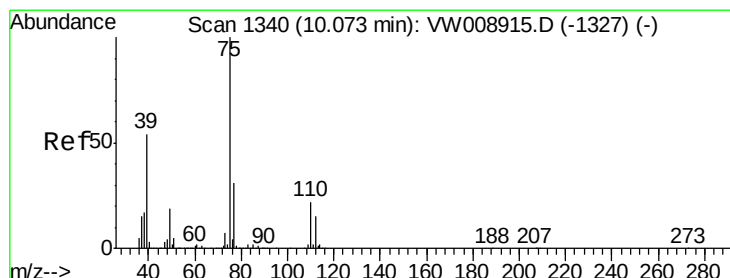
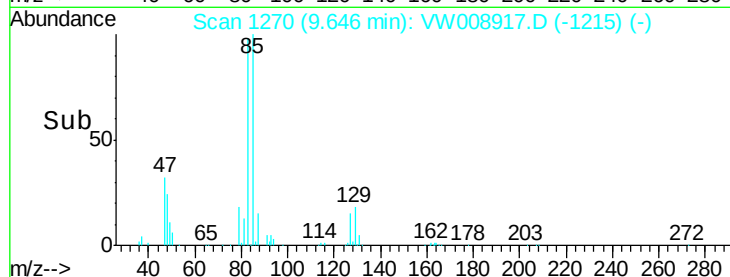
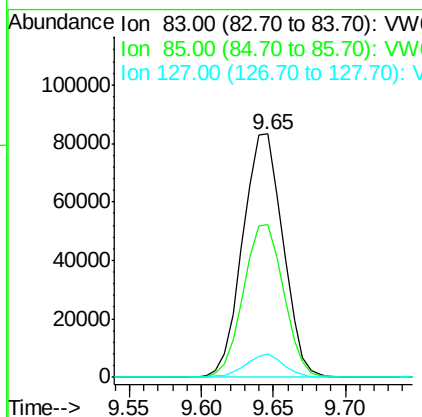
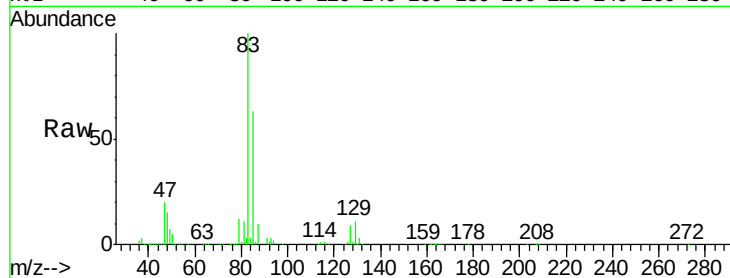
#41
 Bromodichloromethane
 Concen: 21.278 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW008917.D
 Acq: 01 Mar 2019 12:06

Instrument :
 MSVOA_W
 ClientSampled :
 DB639

Tot Ion	Ratio	Resp	Lower	Upper
83	100	161554		
85	62.8		44.4	82.5
127	9.5		7.0	10.6

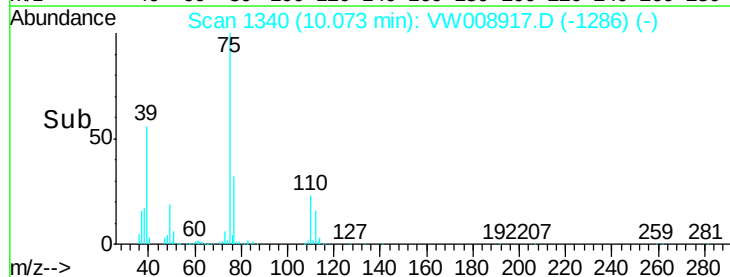
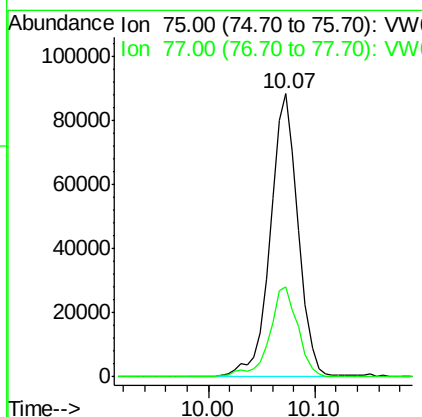
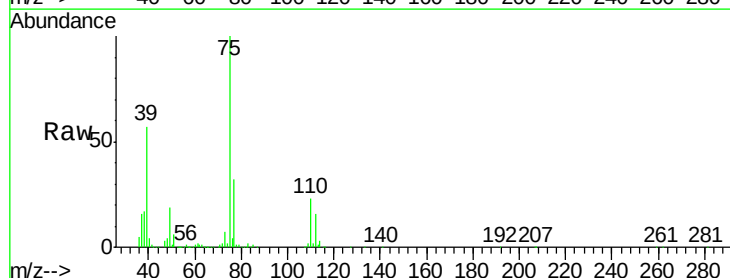
Manual Integrations
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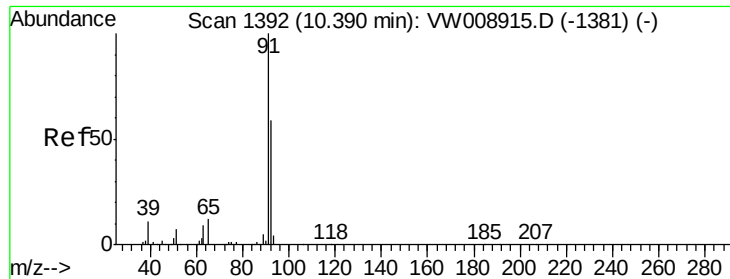
MMDadoda
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#42
 cis-1,3-Dichloropropene
 Concen: 17.762 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW008917.D
 Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	160878		
77	31.7		23.0	42.8





#44

Toluene

Concen: 21.630 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Instrument :

MSVOA_W

ClientSampled :

DB639

Tot Ion: 91 Resp: 562107

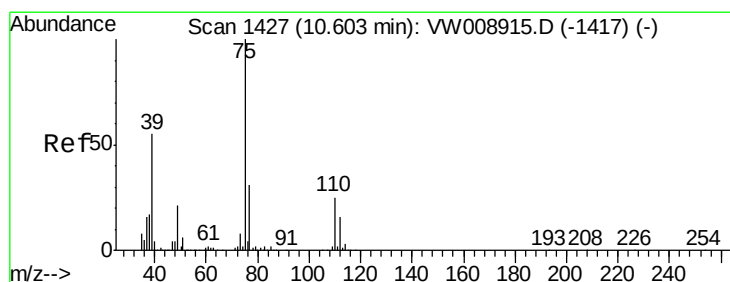
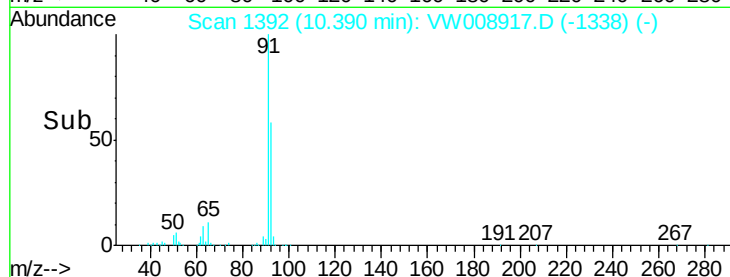
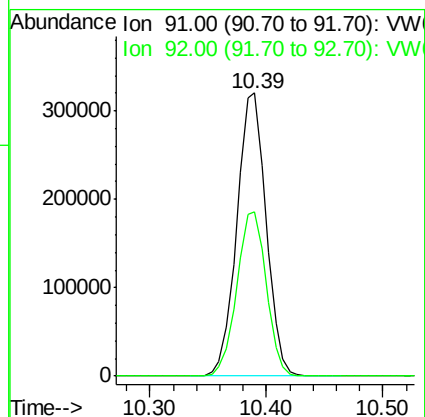
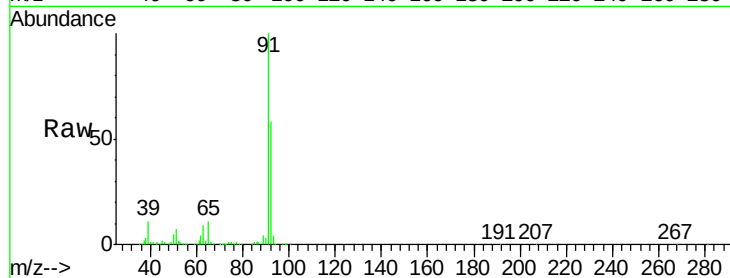
Ion Ratio Lower Upper

91 100

92 57.9 39.6 73.6

Manual Integrations
APPROVED

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#45

trans-1,3-Dichloropropene

Concen: 8.272 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW008917.D

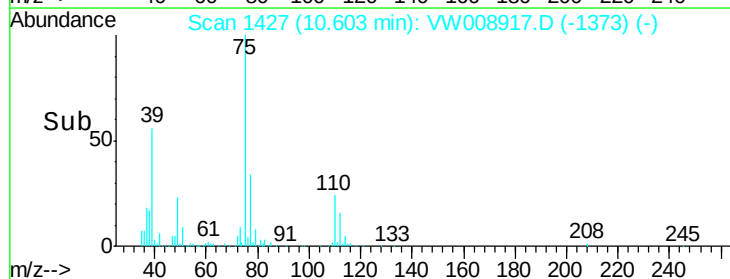
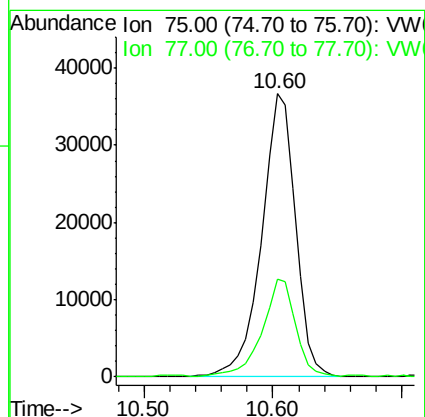
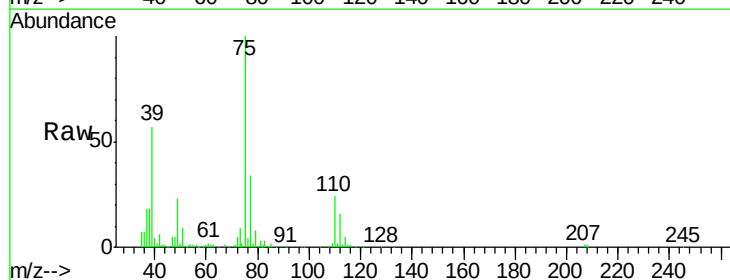
Acq: 01 Mar 2019 12:06

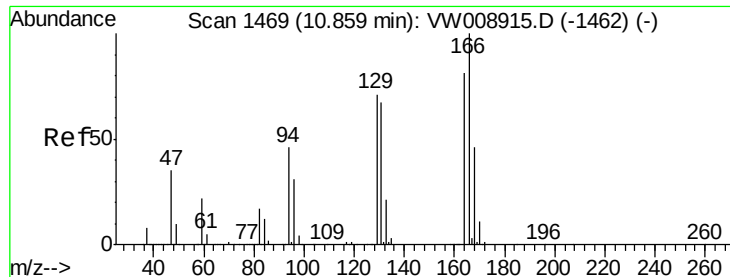
Tgt Ion: 75 Resp: 66901

Ion Ratio Lower Upper

75 100

77 34.5 21.1 39.3





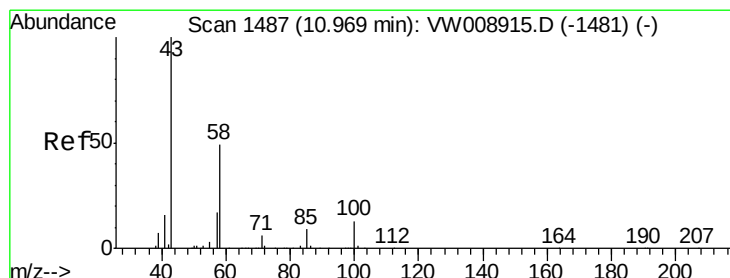
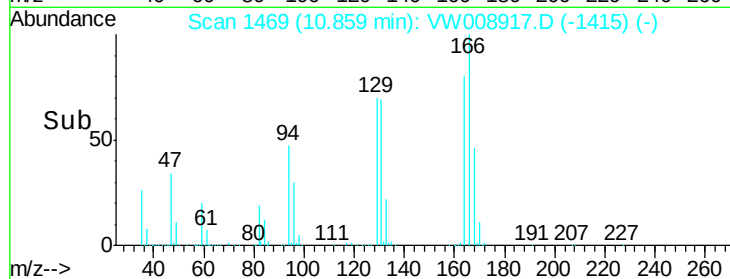
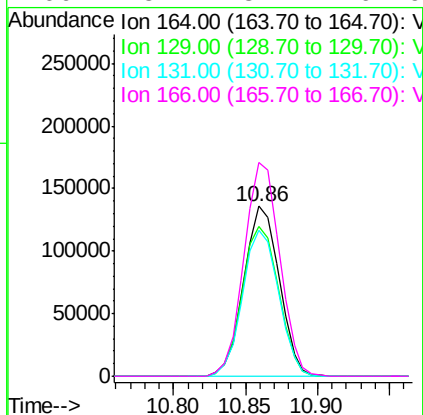
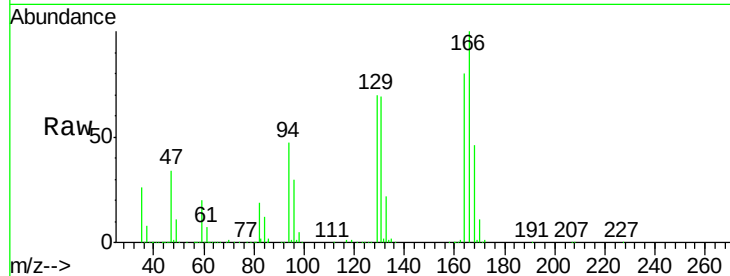
#47
Tetrachloroethene
Concen: 41.758 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Instrument :
MSVOA_W
ClientSampled :
DB639

Tot Ion	Ratio	Lower	Upper
164	100		
129	88.5	70.6	131.2
131	86.3	66.5	123.5
166	125.7	87.7	162.9

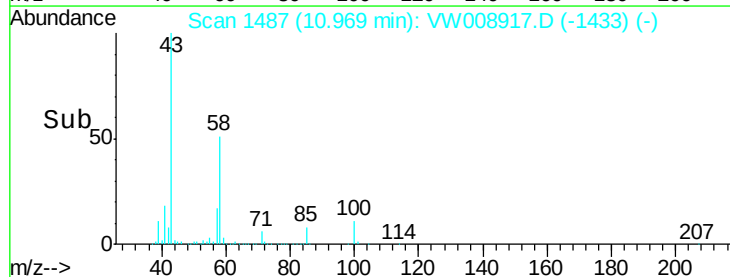
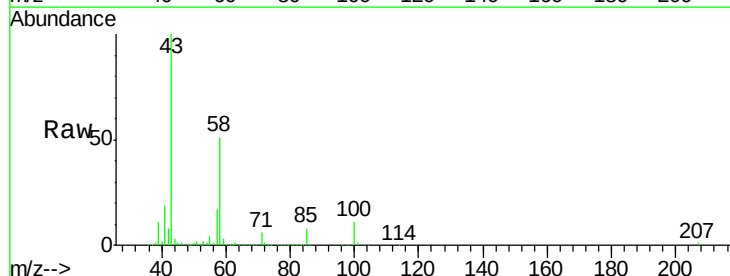
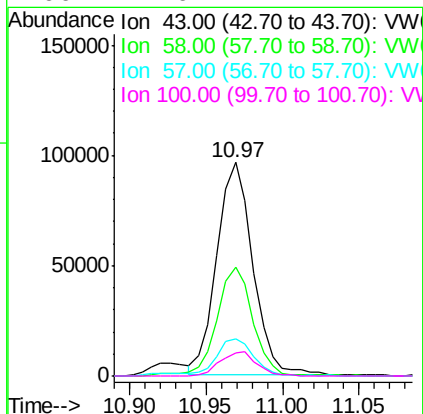
Manual Integrations
APPROVED

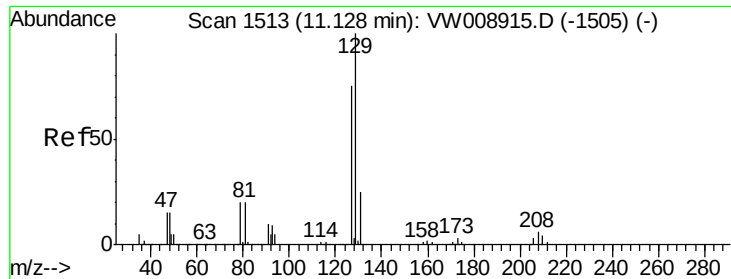
MMDadoda
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#49
2-Hexanone
Concen: 39.957 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW008917.D
Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	50.2	46.2	69.4
57	17.8	17.9	26.9
100	11.6	11.4	17.2





#50

Dibromochloromethane

Concen: 20.299 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

DB639

Tot Ion:129 Resp: 114890

Ion Ratio Lower Upper

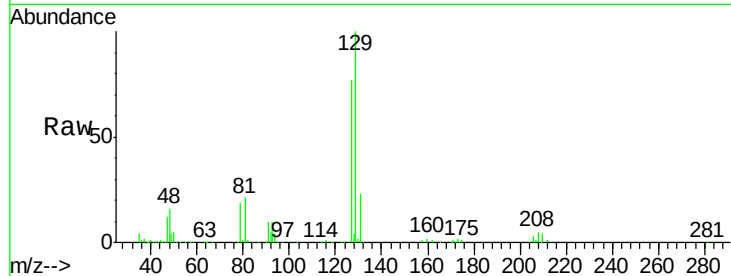
129 100

127 77.0 55.8 103.6

Manual Integrations
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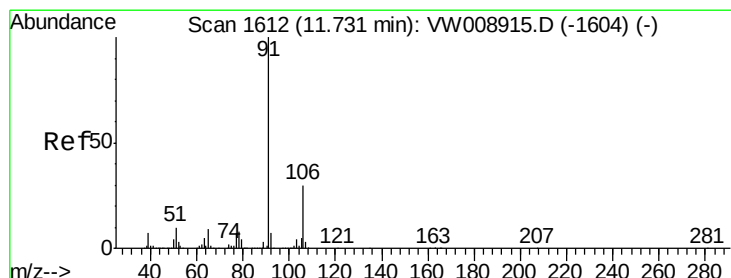
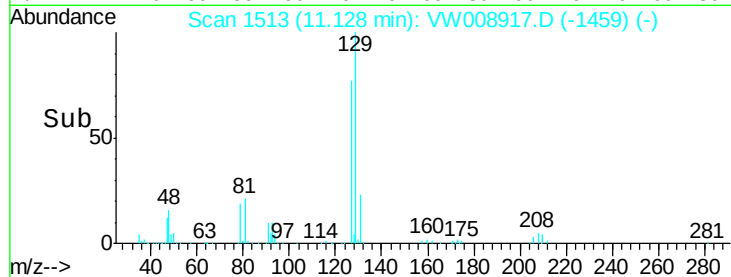
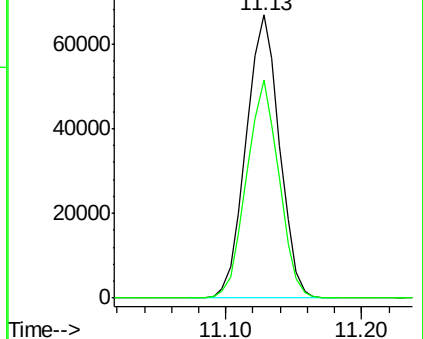
MMDadoda

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#53

Ethylbenzene

Concen: 15.795 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW008917.D

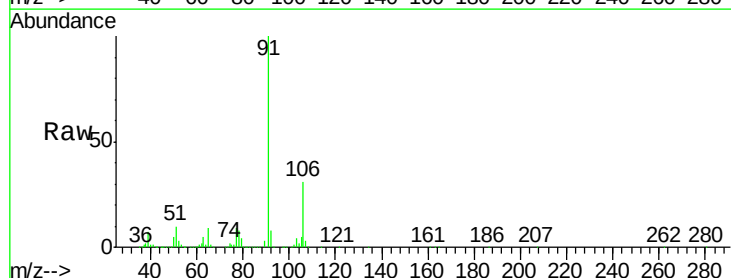
Acq: 01 Mar 2019 12:06

Tgt Ion: 91 Resp: 476918

Ion Ratio Lower Upper

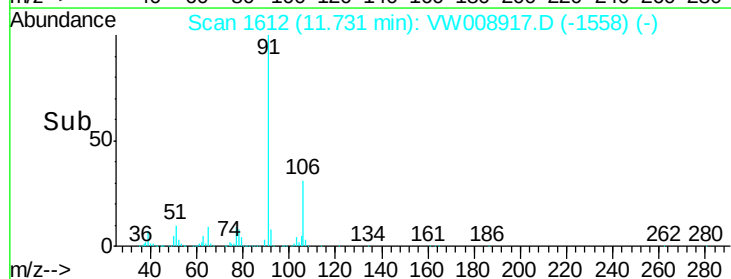
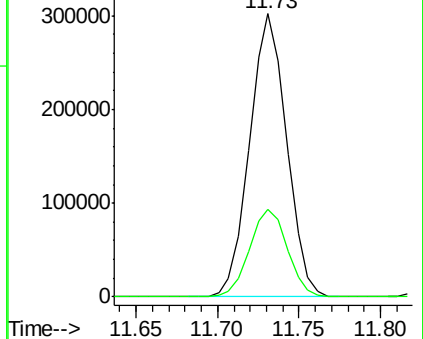
91 100

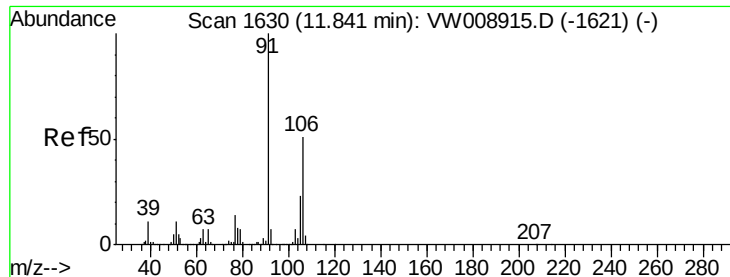
106 31.1 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 10.296 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Instrument :

MSVOA_W

ClientSampled :

DB639

Tot Ion:106 Resp: 122248

Ion Ratio Lower Upper

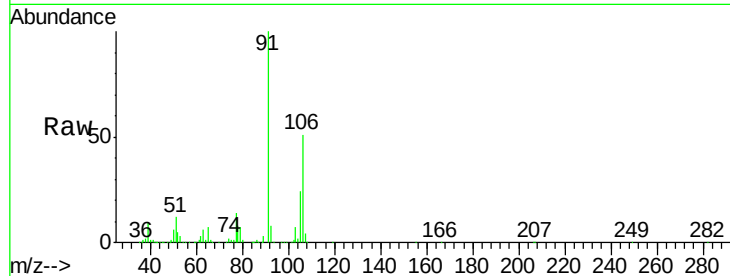
106 100

91 197.5 147.8 274.4

Manual Integrations
APPROVED

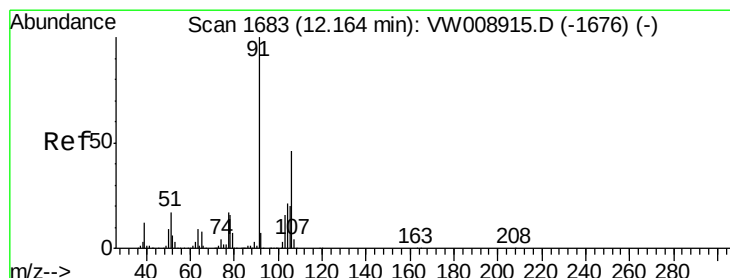
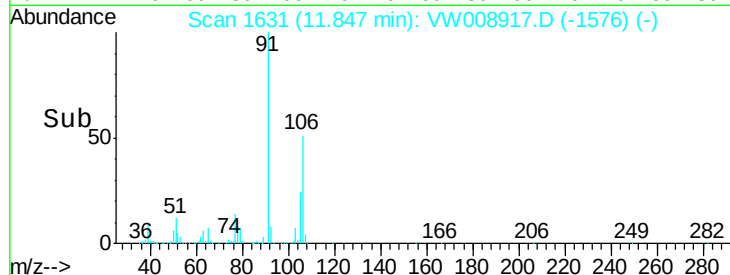
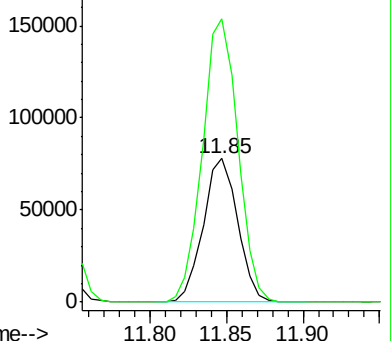
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 12.473 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW008917.D

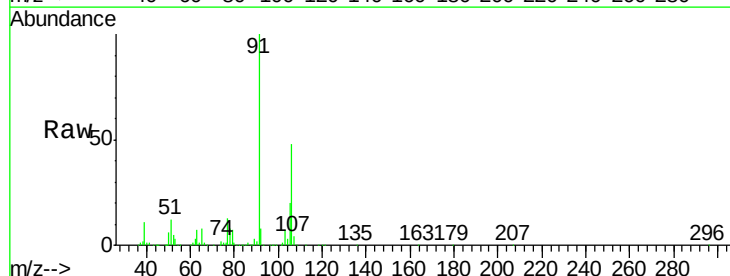
Acq: 01 Mar 2019 12:06

Tgt Ion:106 Resp: 142470

Ion Ratio Lower Upper

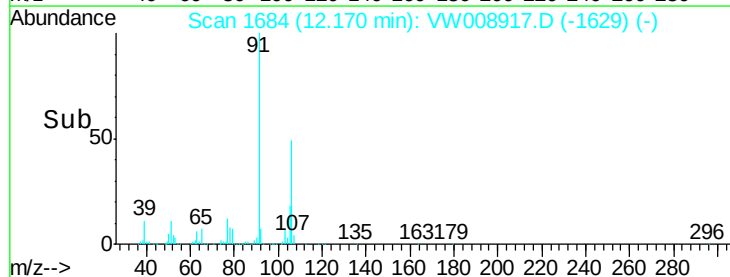
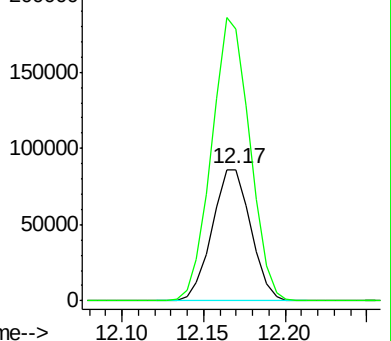
106 100

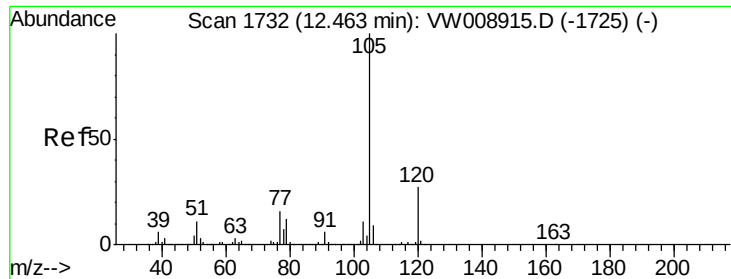
91 206.7 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 12.802 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Instrument :

MSVOA_W

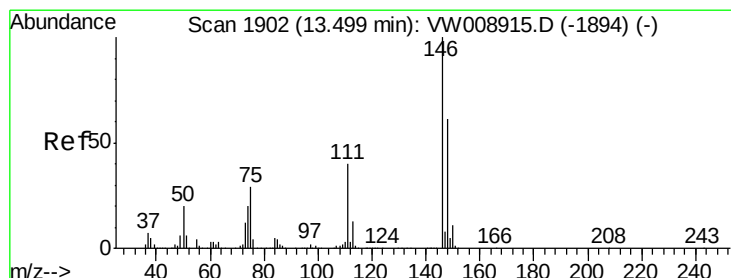
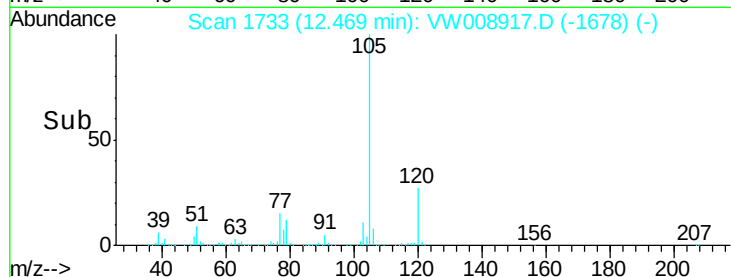
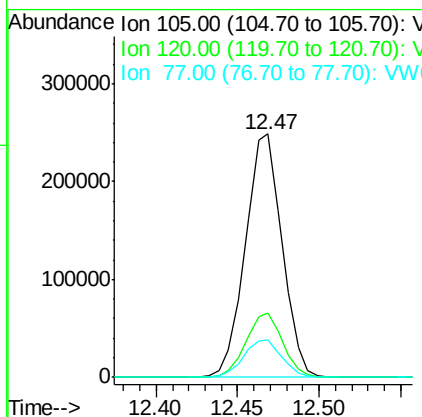
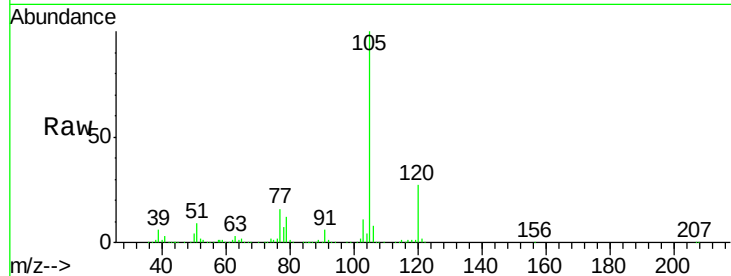
ClientSampleId :

DB639

Tot Ion:	105	Resp:	390074
Ion Ratio		Lower	Upper
105	100		
120	26.5	21.1	31.7
77	16.1	12.4	18.6

Manual Integrations
APPROVED

MMDadoda
3/5/2019 11:47:17 PM



#63

1,3-Dichlorobenzene

Concen: 20.884 ug/L

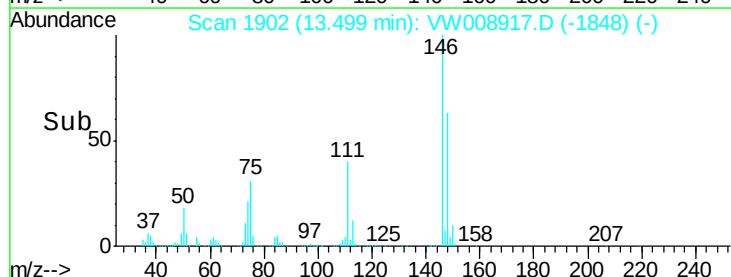
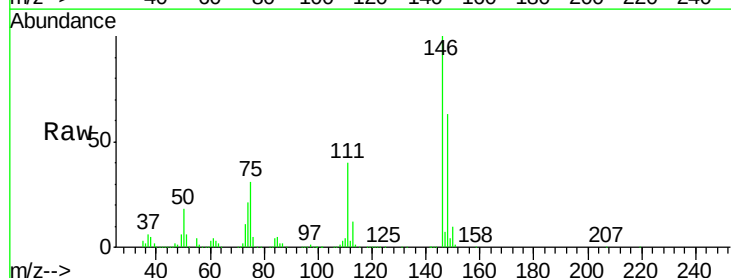
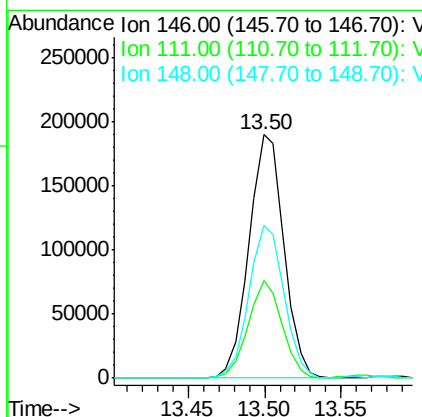
RT: 13.50 min Scan# 1902

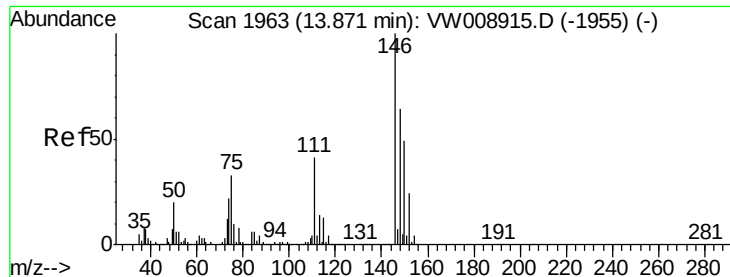
Delta R.T. -0.00 min

Lab File: VW008917.D

Acq: 01 Mar 2019 12:06

Tgt Ion:	146	Resp:	302487
Ion Ratio		Lower	Upper
146	100		
111	40.0	31.0	57.6
148	62.6	43.6	81.0





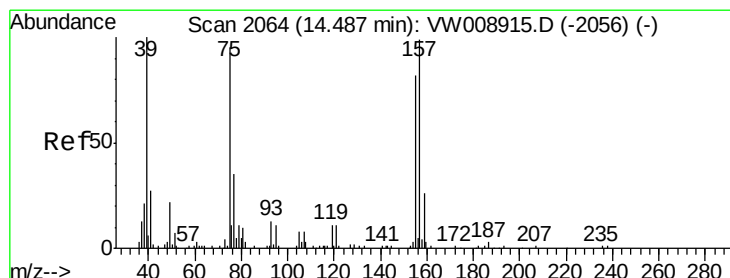
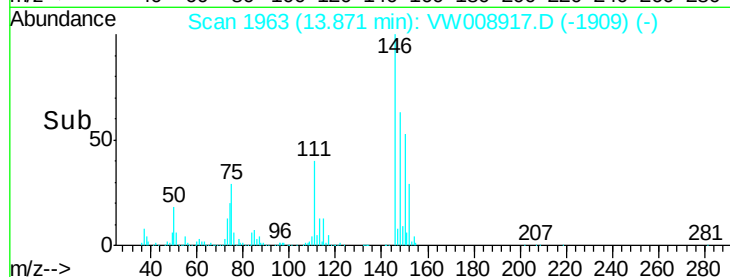
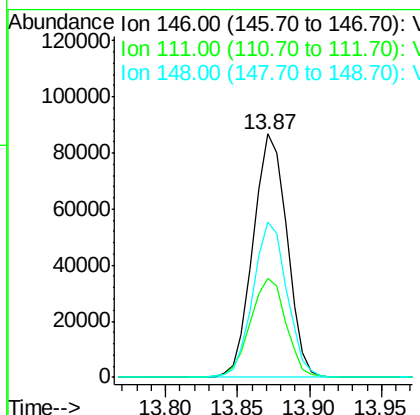
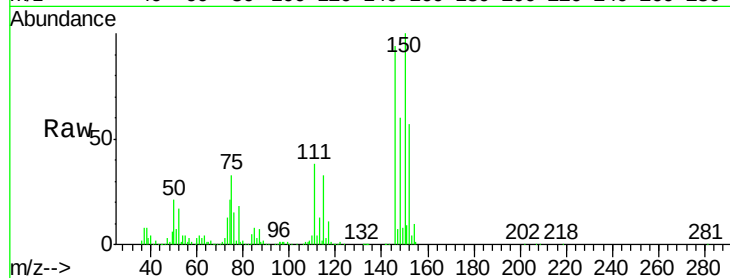
#65
 1,2-Dichlorobenzene
 Concen: 10.534 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW008917.D
 Acq: 01 Mar 2019 12:06

Instrument :
 MSVOA_W
 ClientSampled :
 DB639

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	36.4	54.6
148	63.7	51.0	76.4

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 11:47:17 PM



#66
 1,2-Dibromo-3-chloropropane
 Concen: 16.341 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW008917.D
 Acq: 01 Mar 2019 12:06

Tgt Ion	Ratio	Lower	Upper
75	100		
157	103.6	85.6	128.4
155	86.5	63.4	95.0

