

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021419\
 Data File : VW008659.D
 Acq On : 14 Feb 2019 11:48
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 12:10:47 AM

Quant Time: Feb 15 02:52:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	415462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	603620	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	536945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	274461	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	212187	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
35) Dibromofluoromethane	7.88	113	200266	53.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.86%	
50) Toluene-d8	10.32	98	779112	53.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.84%	
62) 4-Bromofluorobenzene	12.62	95	277831	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	138125	51.907	ug/l	95
3) Chloromethane	2.21	50	178399	46.506	ug/l	98
4) Vinyl Chloride	2.36	62	242650	48.155	ug/l	100
5) Bromomethane	2.78	94	185752	46.587	ug/l	97
6) Chloroethane	2.92	64	179963	47.997	ug/l	98
7) Trichlorofluoromethane	3.25	101	197328	50.280	ug/l	99
8) Diethyl Ether	3.67	74	108109	46.161	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	214190	51.644	ug/l	98
10) Methyl Iodide	4.26	142	323818	50.024	ug/l	100
11) Tert butyl alcohol	5.18	59	66260	191.734	ug/l	97
12) 1,1-Dichloroethene	4.03	96	206485	50.909	ug/l	99
13) Acrolein	3.89	56	103965	291.993	ug/l	97
14) Allyl chloride	4.65	41	340461	50.523	ug/l	99
15) Acrylonitrile	5.36	53	220799	223.987	ug/l	99
16) Acetone	4.12	43	233669	237.738	ug/l	100
17) Carbon Disulfide	4.37	76	625926	51.137	ug/l	99
18) Methyl Acetate	4.66	43	94941	42.271	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	322014	45.225	ug/l	98
20) Methylene Chloride	4.90	84	212389	48.884	ug/l	95
21) trans-1,2-Dichloroethene	5.41	96	220083	49.547	ug/l	100
22) Diisopropyl ether	6.31	45	641502	47.298	ug/l	96
23) Vinyl Acetate	6.25	43	2022767	229.793	ug/l	100
24) 1,1-Dichloroethane	6.21	63	379416	48.479	ug/l	99
25) 2-Butanone	7.17	43	309633	223.098	ug/l	99
26) 2,2-Dichloropropane	7.16	77	255765	52.312	ug/l	98
27) cis-1,2-Dichloroethene	7.16	96	230580	48.006	ug/l	98
28) Bromochloromethane	7.51	49	161879	48.997	ug/l	98
29) Tetrahydrofuran	7.52	42	191021	208.817	ug/l	99
30) Chloroform	7.67	83	380525	48.524	ug/l	96
31) Cyclohexane	7.95	56	378494	47.914	ug/l	99
32) 1,1,1-Trichloroethane	7.87	97	336375	50.789	ug/l	99
36) 1,1-Dichloropropene	8.07	75	323803	53.394	ug/l	99
37) Ethyl Acetate	7.24	43	133801	45.738	ug/l	100
38) Carbon Tetrachloride	8.06	117	325017	53.897	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	405793	52.903	ug/l	97
40) Benzene	8.32	78	854824	51.612	ug/l	100
41) Methacrylonitrile	7.48	41	84945	51.609	ug/l	97
42) 1,2-Dichloroethane	8.40	62	253303	49.306	ug/l	100
43) Isopropyl Acetate	8.42	43	270313	46.340	ug/l	98
44) Trichloroethene	9.09	130	243638	53.054	ug/l	97
45) 1,2-Dichloropropane	9.37	63	203865	49.736	ug/l	99
46) Dibromomethane	9.45	93	108617	48.104	ug/l	97
47) Bromodichloromethane	9.64	83	279644	51.533	ug/l	99
48) Methyl methacrylate	9.43	41	127159	47.038	ug/l	99
49) 1,4-Dioxane	9.45	88	31146	864.155	ug/l	97
51) 4-Methyl-2-Pentanone	10.21	43	678754	226.517	ug/l	99
52) Toluene	10.38	92	549553	51.433	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	286557	50.266	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	329523	50.991	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	147689	47.670	ug/l	98
56) Ethyl methacrylate	10.65	69	195658	47.560	ug/l	100
57) 1,3-Dichloropropane	10.93	76	266877	48.550	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	478912	242.673	ug/l	100
59) 2-Hexanone	10.97	43	489856	232.708	ug/l	99
60) Dibromochloromethane	11.13	129	182108	49.125	ug/l	98
61) 1,2-Dibromoethane	11.23	107	148188	48.579	ug/l	99
64) Tetrachloroethene	10.86	164	205778	51.536	ug/l	97
65) Chlorobenzene	11.66	112	594744	51.390	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	207980	50.729	ug/l	99
67) Ethyl Benzene	11.73	91	1081845	52.478	ug/l	99
68) m/p-Xylenes	11.84	106	828270	103.260	ug/l	99
69) o-Xylene	12.16	106	388716	51.268	ug/l	100
70) Styrene	12.18	104	627735	50.689	ug/l	99
71) Bromoform	12.35	173	104735	47.412	ug/l	99
73) Isopropylbenzene	12.46	105	1098150	53.715	ug/l	100
74) N-amyl acetate	12.27	43	261027	47.215	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	175566	49.358	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	122492m	45.197	ug/l	
77) Bromobenzene	12.75	156	245208	52.178	ug/l	98
78) n-propylbenzene	12.80	91	1325892	54.583	ug/l	100
79) 2-Chlorotoluene	12.90	91	726786	52.939	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	901959	53.116	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	54737	44.806	ug/l	100
82) 4-Chlorotoluene	12.99	91	765413	52.609	ug/l	99
83) tert-Butylbenzene	13.21	119	794996	53.916	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	925346	53.019	ug/l	100
85) sec-Butylbenzene	13.38	105	1161748	54.111	ug/l	100
86) p-Isopropyltoluene	13.50	119	1027083	53.475	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	494239	51.879	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	486681	51.835	ug/l	100
89) n-Butylbenzene	13.83	91	981781	53.791	ug/l	100
90) Hexachloroethane	14.10	117	187219	55.793	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	429925	50.936	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	29538	47.787	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	308338	51.319	ug/l	99
94) Hexachlorobutadiene	15.24	225	191485	54.750	ug/l	99
95) Naphthalene	15.37	128	538966	50.056	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	262056	50.827	ug/l	99

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

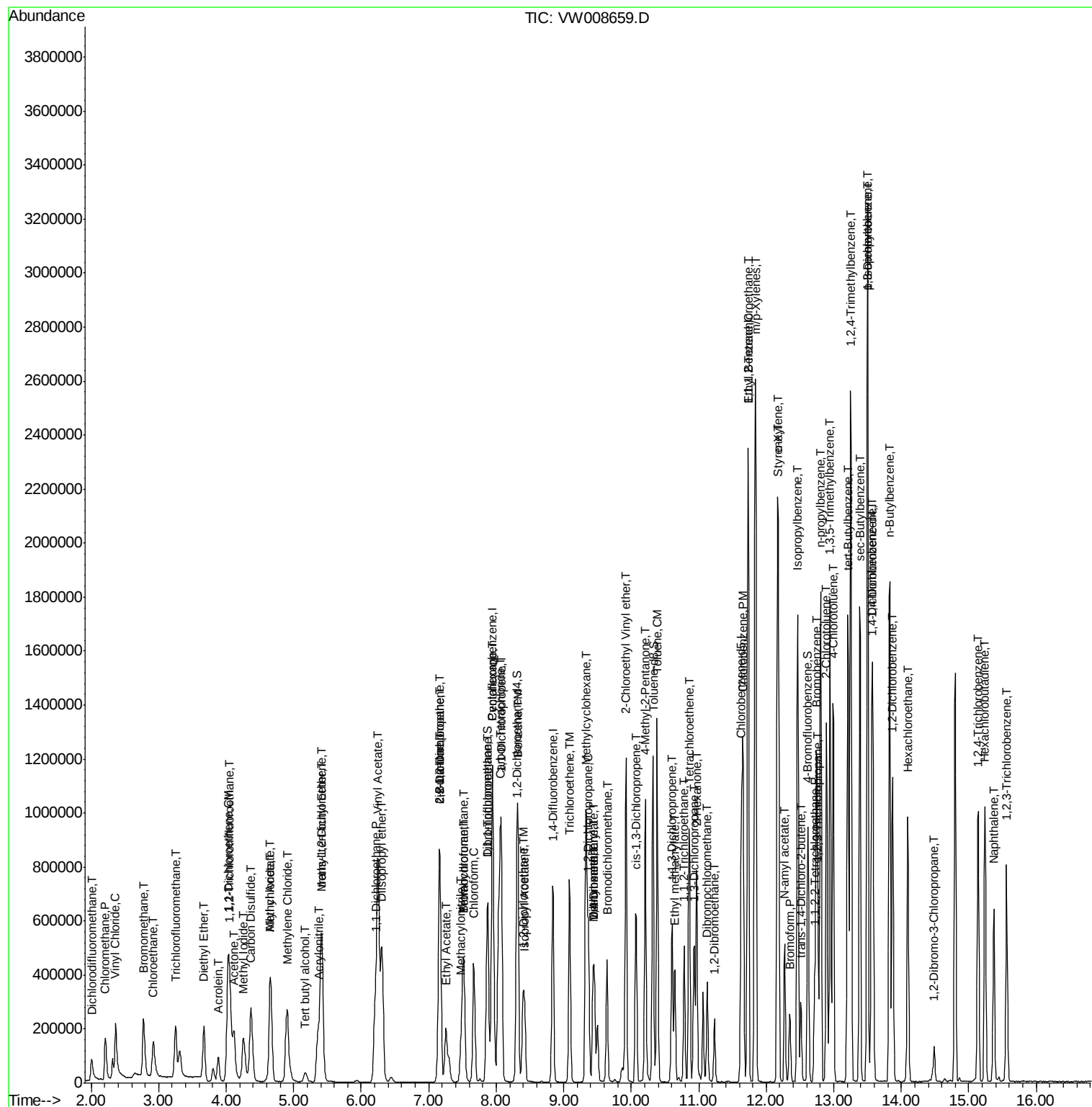
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW021419\
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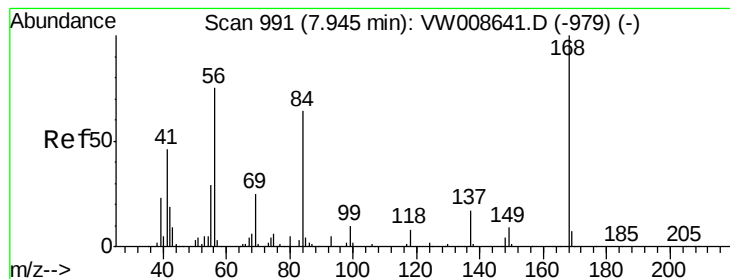
Instrument :
MSVOA_W
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 415462

Ion Ratio Lower Upper

168 100

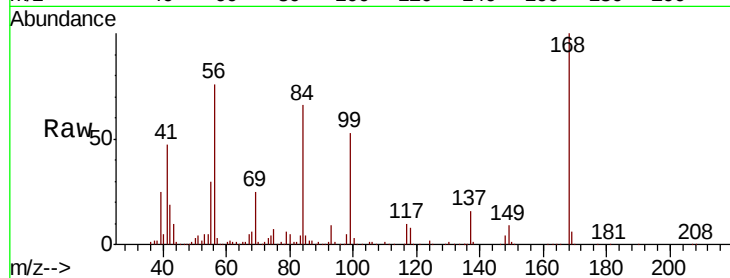
99 53.3 42.8 64.2

Manual Integrations

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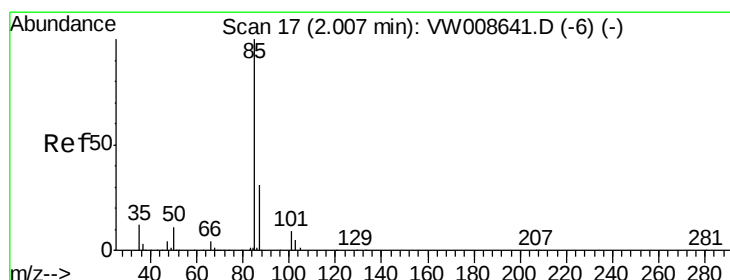
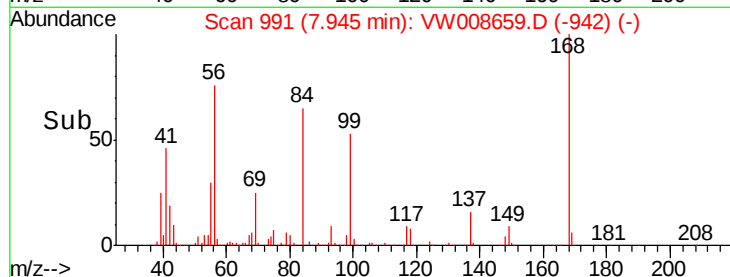
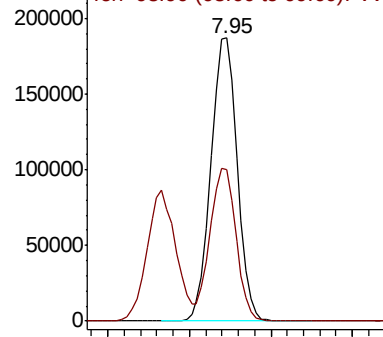
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 51.907 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW008659.D

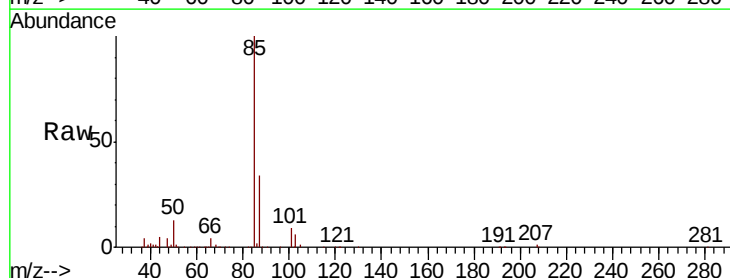
Acq: 14 Feb 2019 11:48

Tgt Ion: 85 Resp: 138125

Ion Ratio Lower Upper

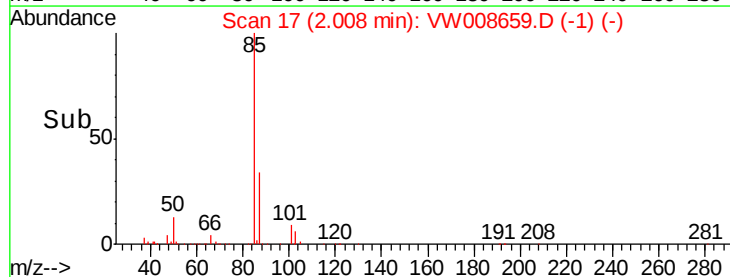
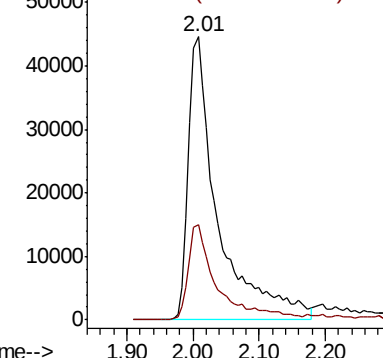
85 100

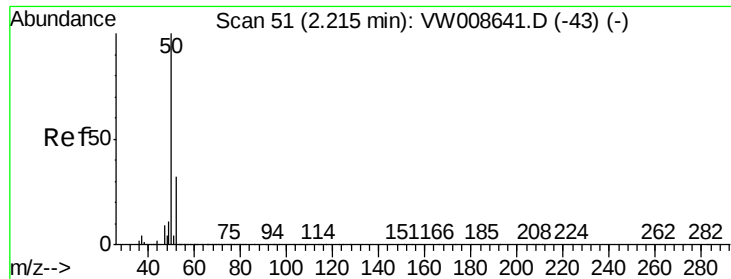
87 33.5 15.4 46.4



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 46.506 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 178399

Ion Ratio Lower Upper

50 100

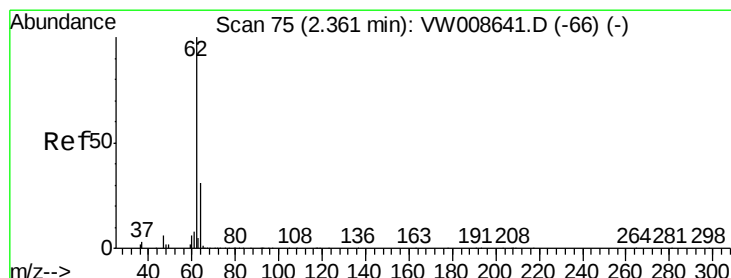
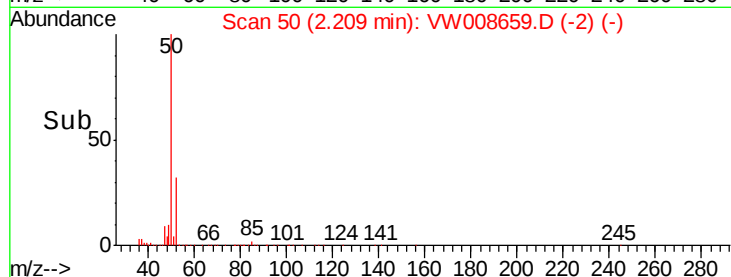
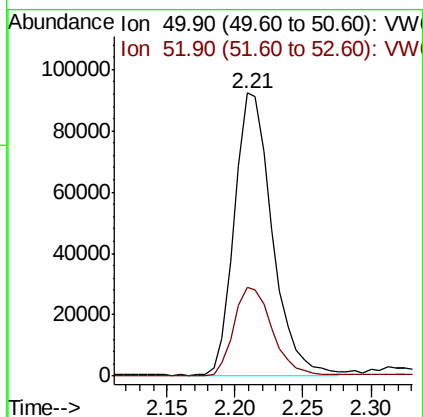
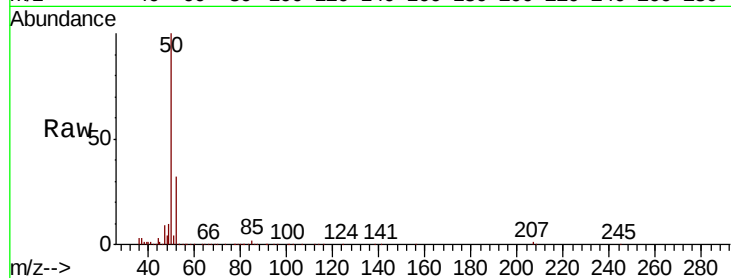
52 31.5 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 48.155 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW008659.D

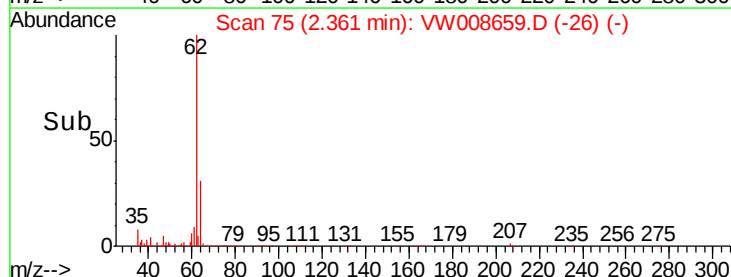
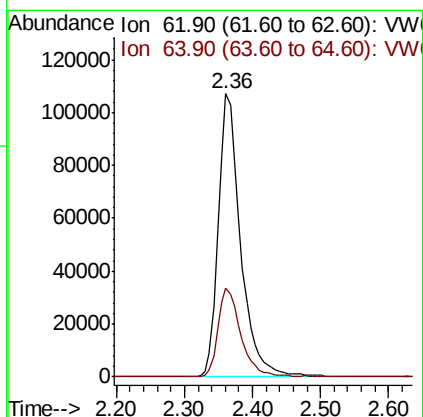
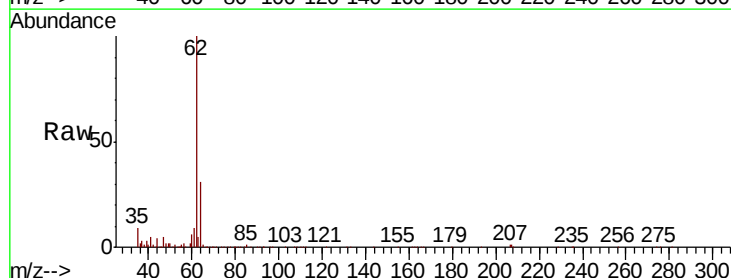
Acq: 14 Feb 2019 11:48

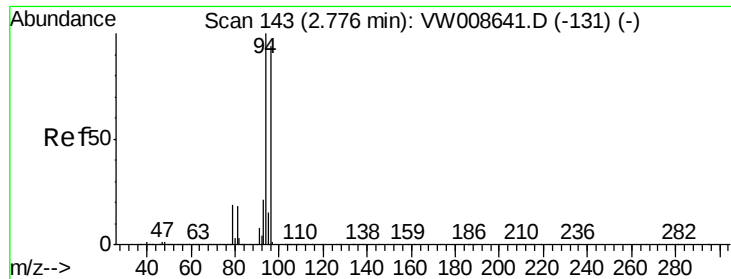
Tgt Ion: 62 Resp: 242650

Ion Ratio Lower Upper

62 100

64 31.3 25.1 37.7





#5

Bromomethane

Concen: 46.587 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 185752

Ion Ratio Lower Upper

94 100

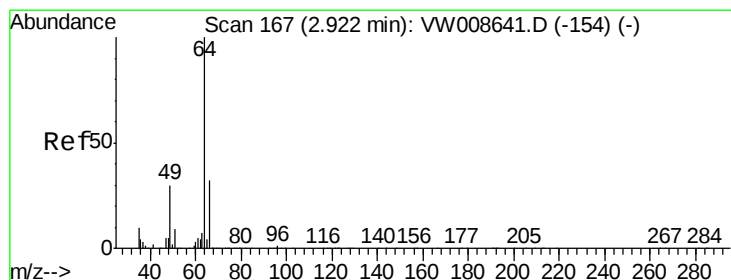
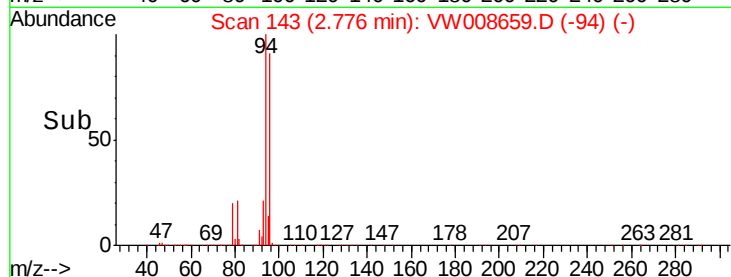
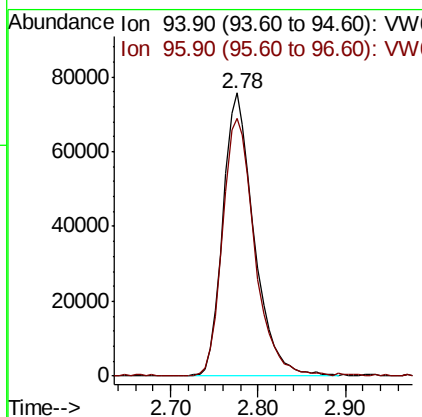
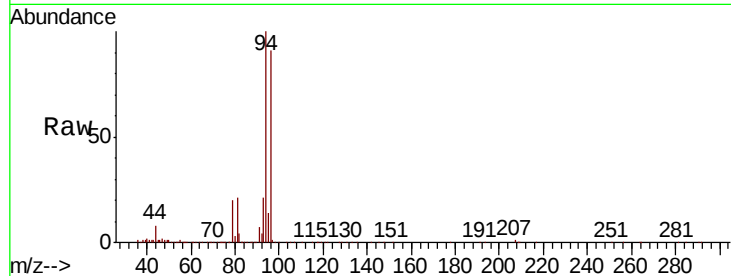
96 91.1 75.5 113.3

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#6

Chloroethane

Concen: 47.997 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW008659.D

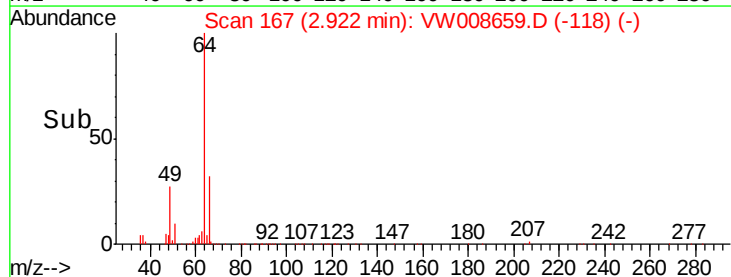
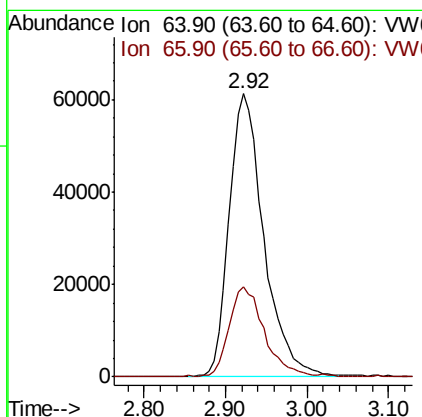
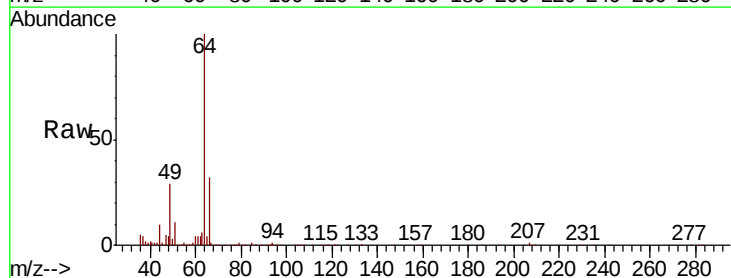
Acq: 14 Feb 2019 11:48

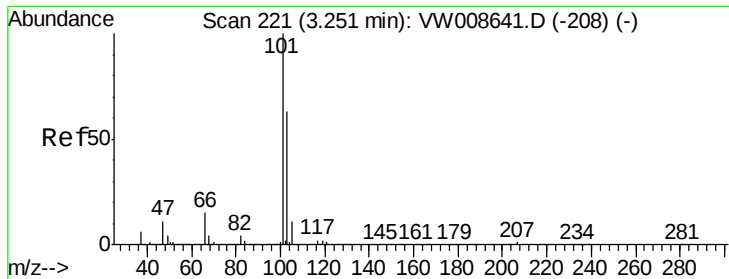
Tgt Ion: 64 Resp: 179963

Ion Ratio Lower Upper

64 100

66 31.5 26.2 39.4





#7

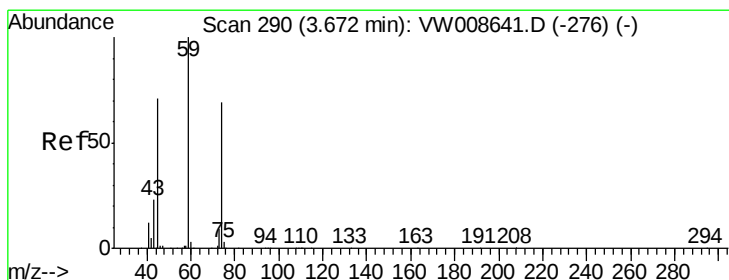
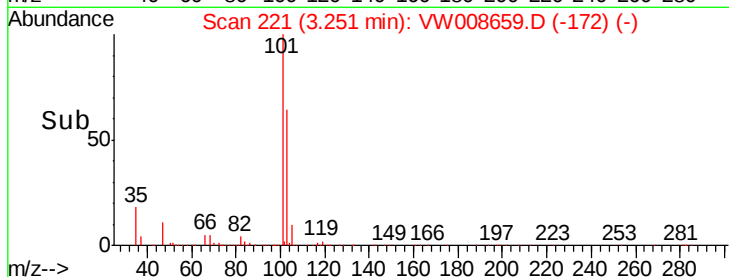
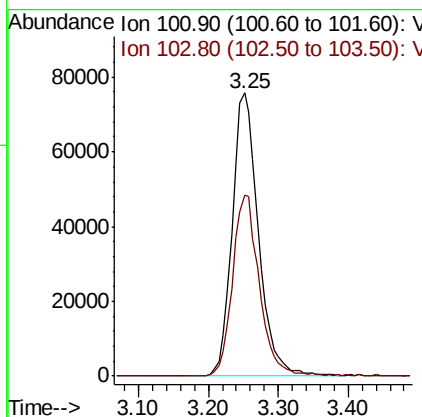
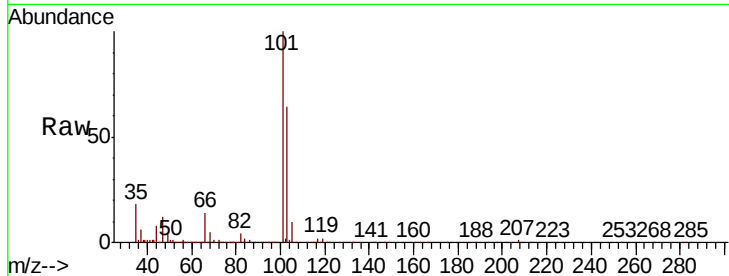
Trichlorofluoromethane
 Concen: 50.280 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	50.5	75.7

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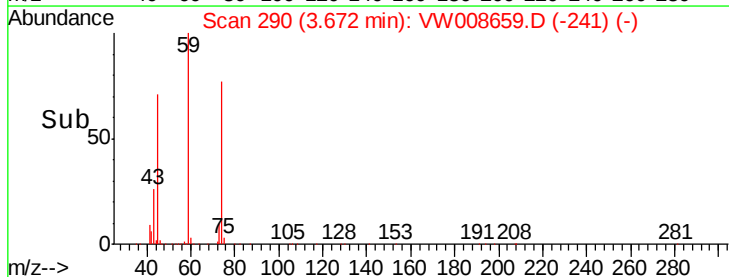
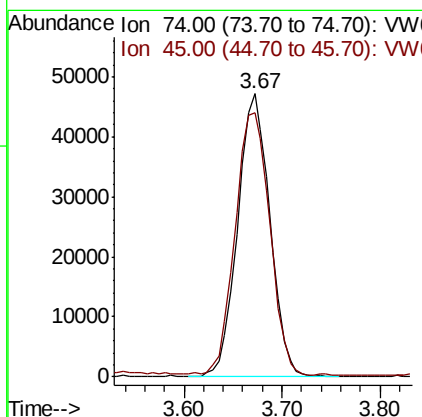
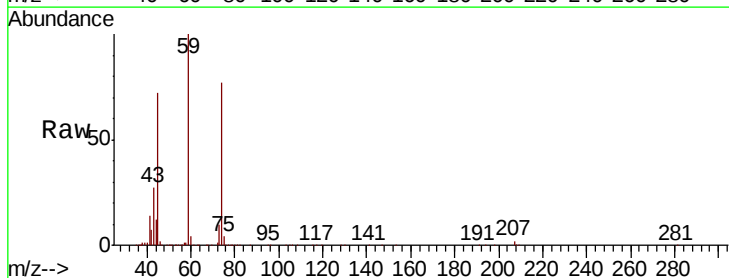
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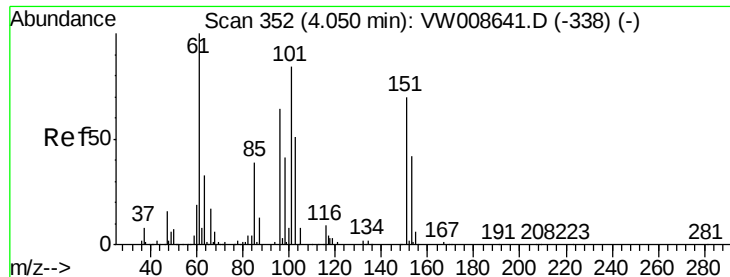


#8

Diethyl Ether
 Concen: 46.161 ug/l
 RT: 3.67 min Scan# 290
 Delta R.T. 0.00 min
 Lab File: VW008659.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.1	50.2	150.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.644 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

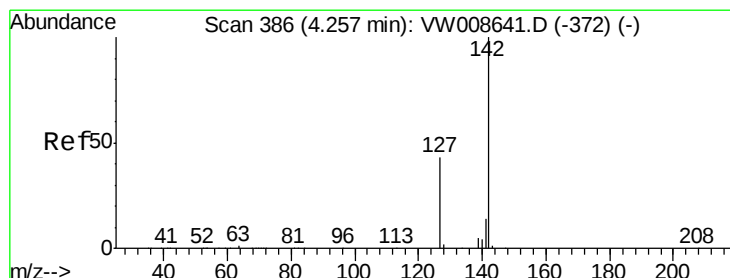
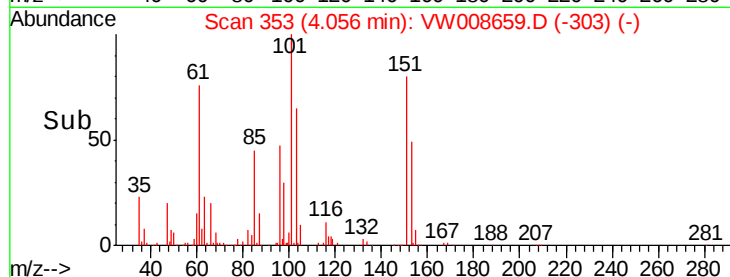
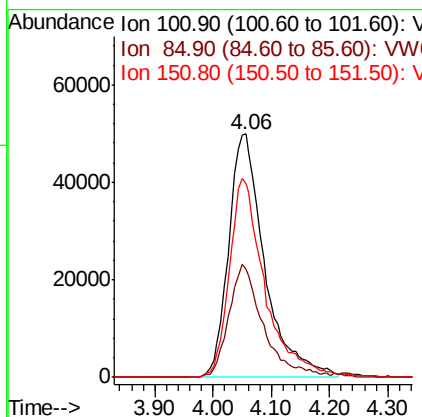
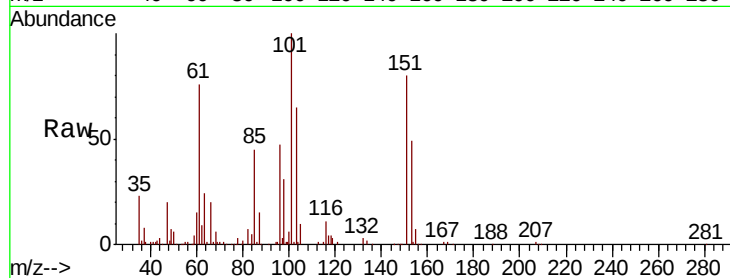
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	214190
Ion Ratio	Lower	Upper	
101	100		
85	44.5	34.3	51.5
151	81.0	65.6	98.4

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#10

Methyl Iodide

Concen: 50.024 ug/l

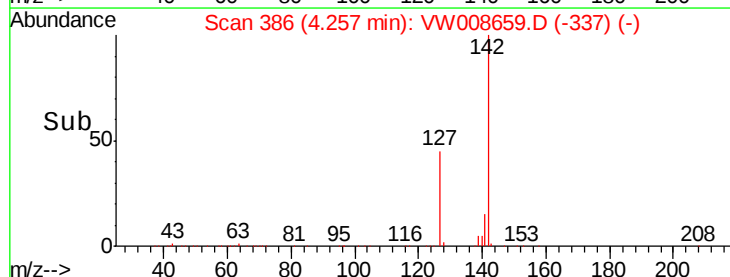
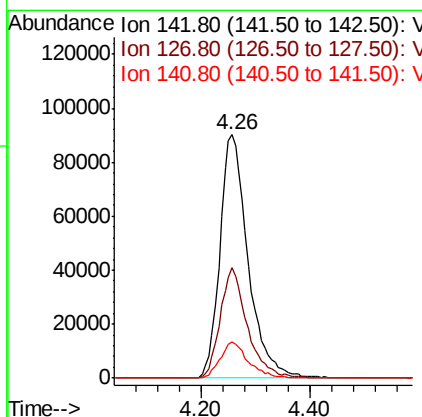
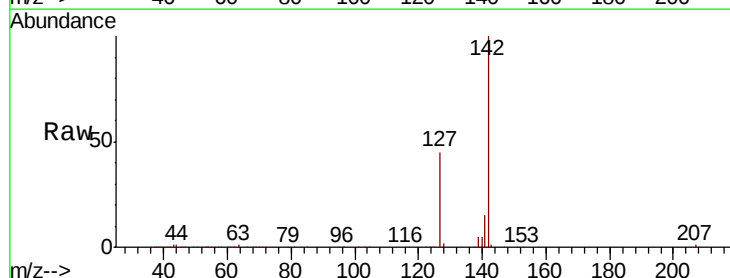
RT: 4.26 min Scan# 386

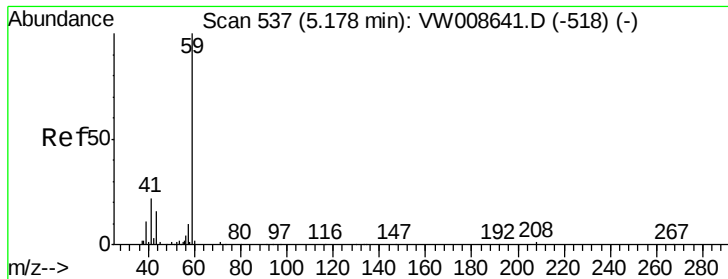
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	142	Resp:	323818
Ion Ratio	Lower	Upper	
142	100		
127	43.6	34.8	52.2
141	14.8	11.8	17.8





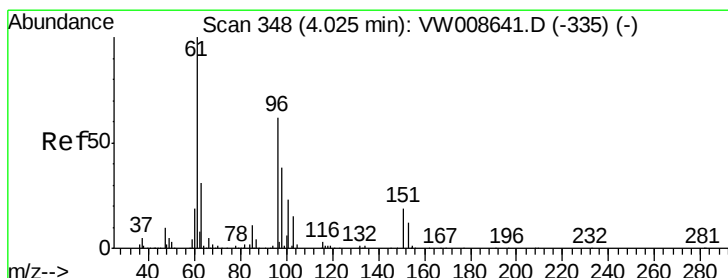
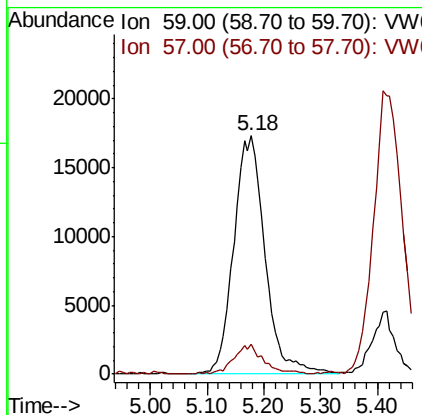
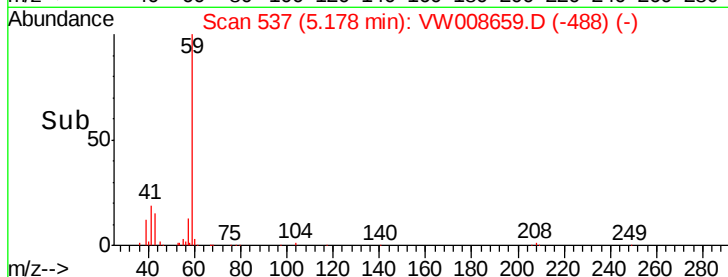
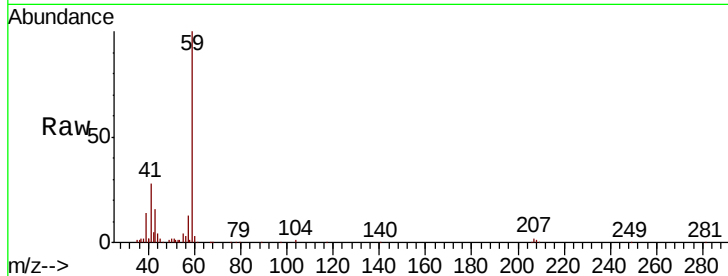
#11
Tert butyl alcohol
Concen: 191.734 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.3	12.5

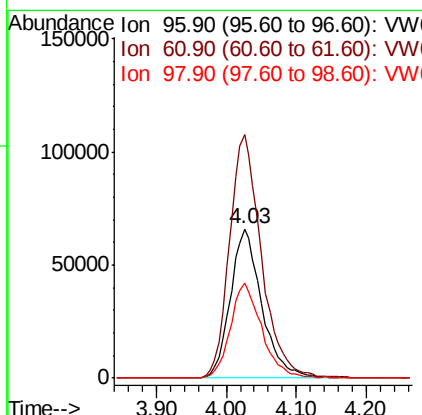
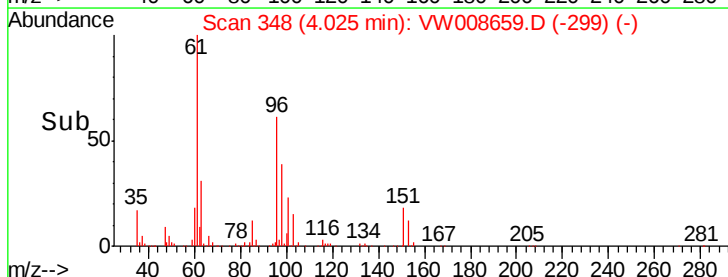
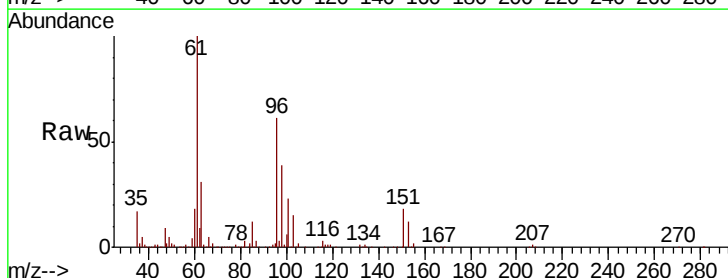
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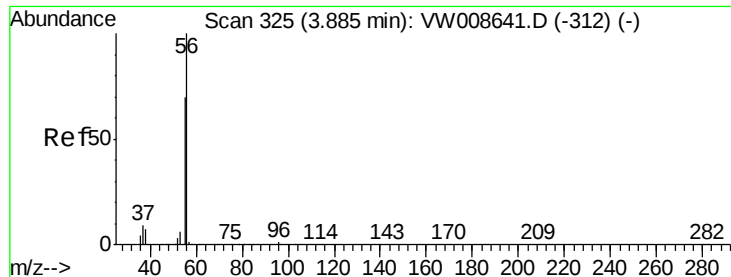
MMDadoda
2/18/2019 12:10:47 AM



#12
1,1-Dichloroethene
Concen: 50.909 ug/l
RT: 4.03 min Scan# 348
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.5	129.8	194.6
98	63.7	49.3	73.9





#13

Acrolein

Concen: 291.993 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 103965

Ion Ratio Lower Upper

56 100

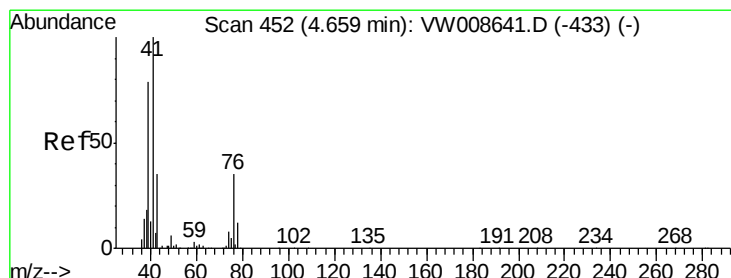
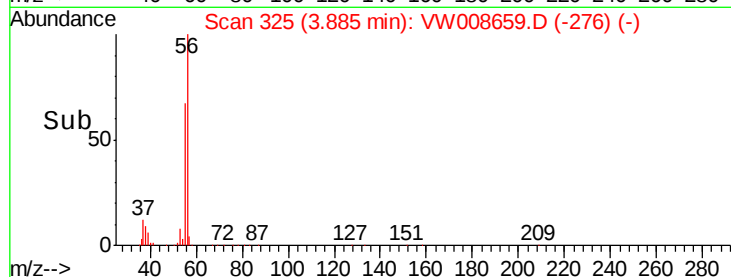
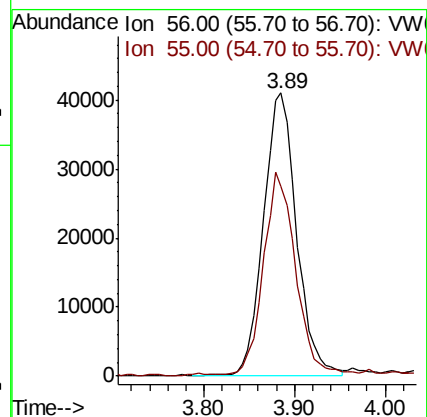
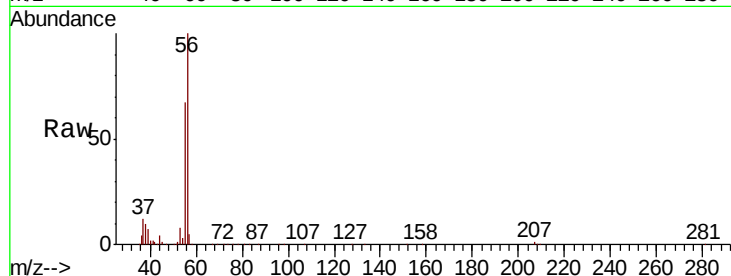
55 69.2 57.4 86.2

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#14

Allyl chloride

Concen: 50.523 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

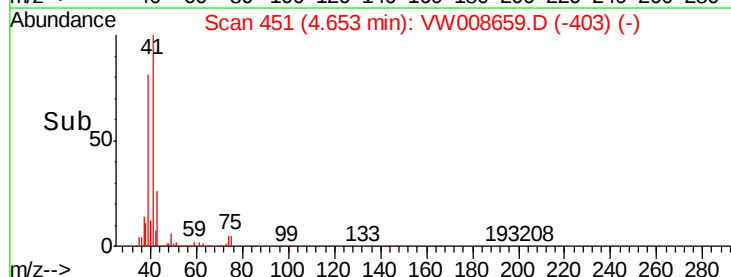
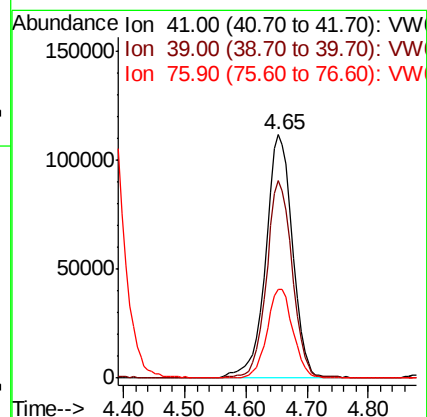
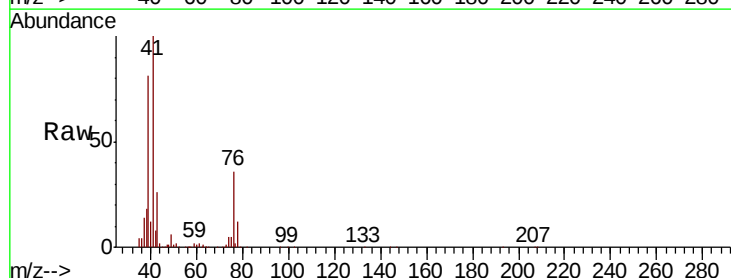
Tgt Ion: 41 Resp: 340461

Ion Ratio Lower Upper

41 100

39 77.6 61.7 92.5

76 34.9 27.7 41.5





#15

Acrylonitrile

Concen: 223.987 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

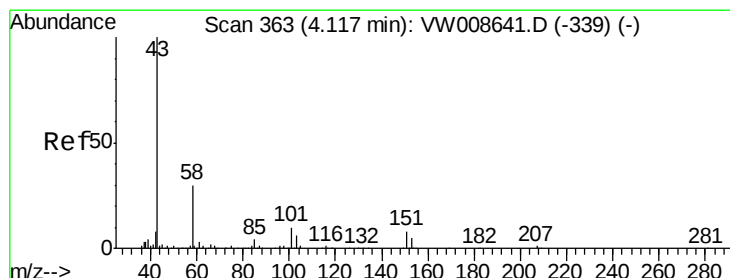
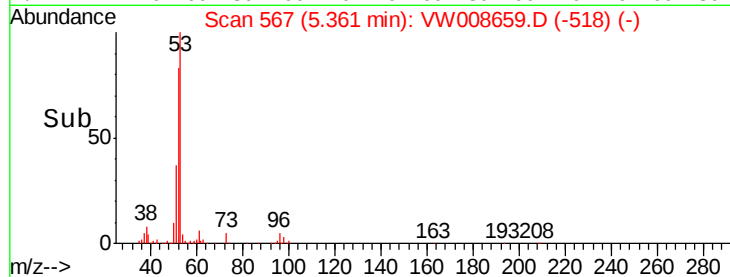
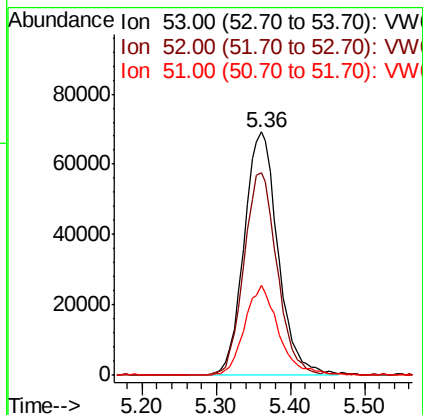
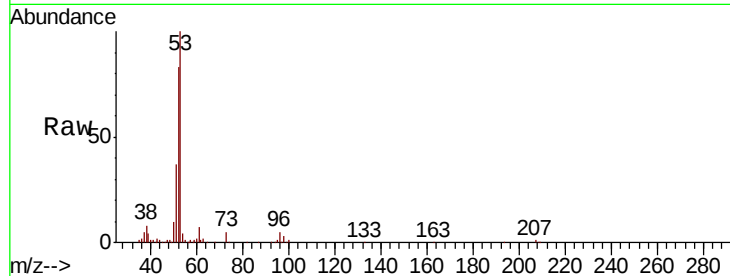
ClientSampleID :

VSTDCCC050

Tot Ion:	53	Resp:	220799
Ion Ratio		Lower	Upper
53	100		
52	82.0	66.8	100.2
51	37.0	29.4	44.0

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#16

Acetone

Concen: 237.738 ug/l

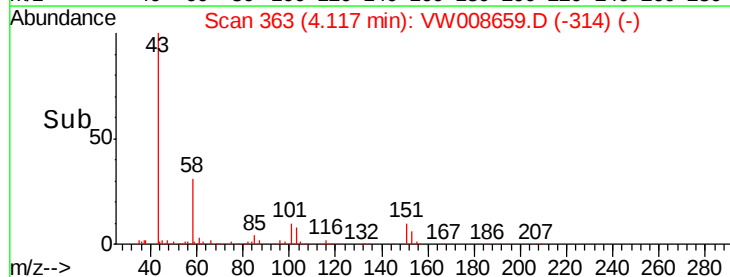
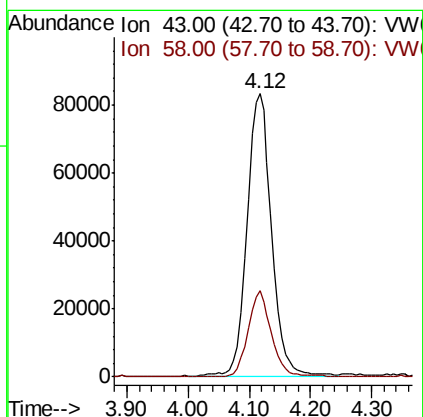
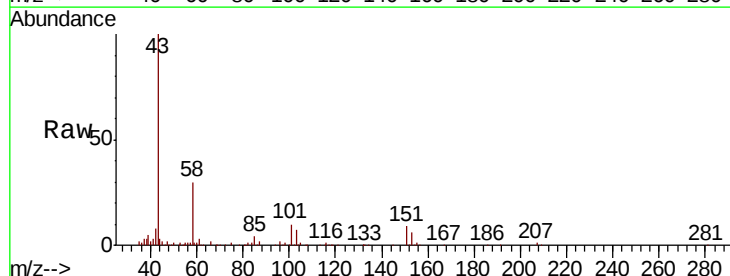
RT: 4.12 min Scan# 363

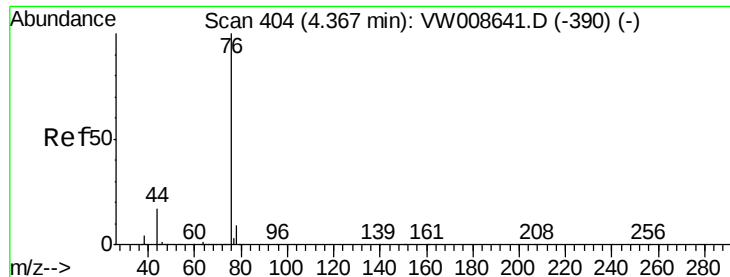
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	43	Resp:	233669
Ion Ratio		Lower	Upper
43	100		
58	30.2	24.1	36.1





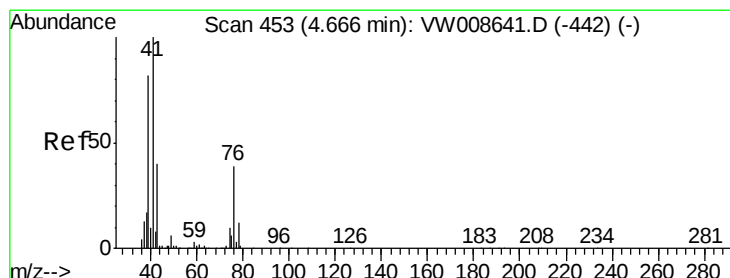
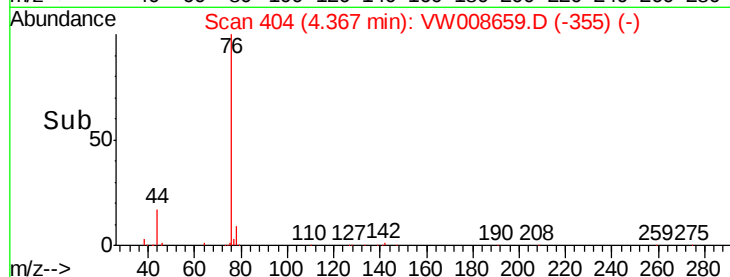
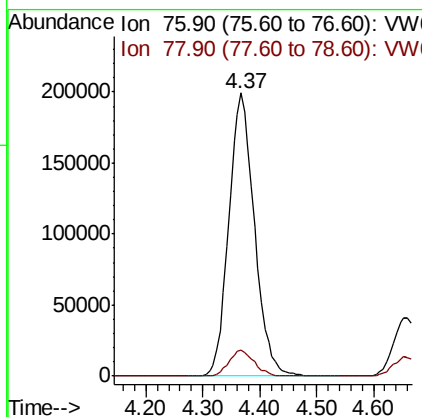
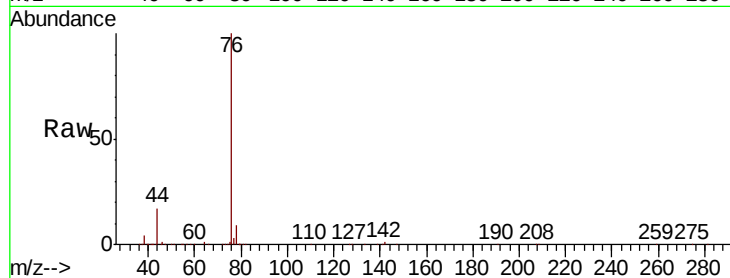
#17
Carbon Disulfide
Concen: 51.137 ug/l
RT: 4.37 min Scan# 404
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

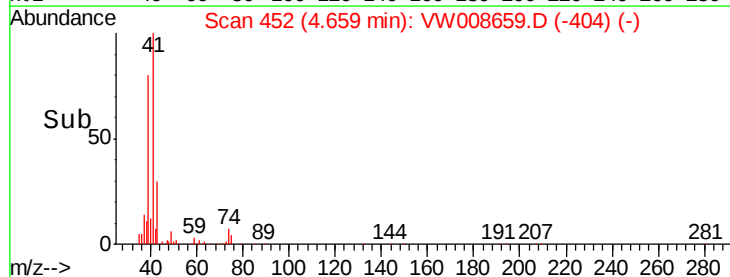
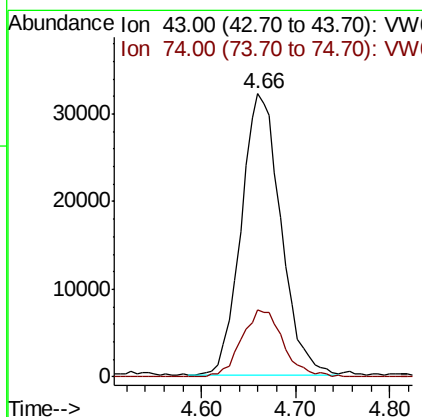
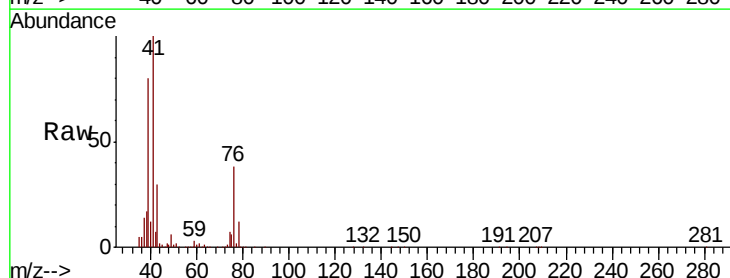
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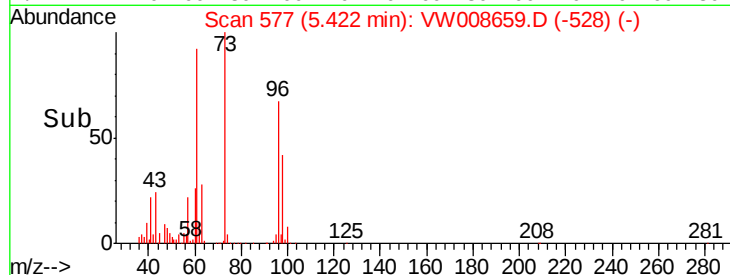
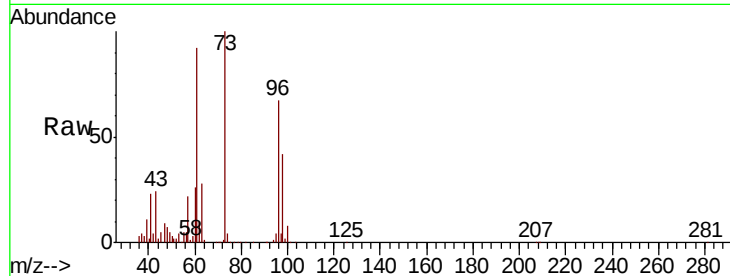
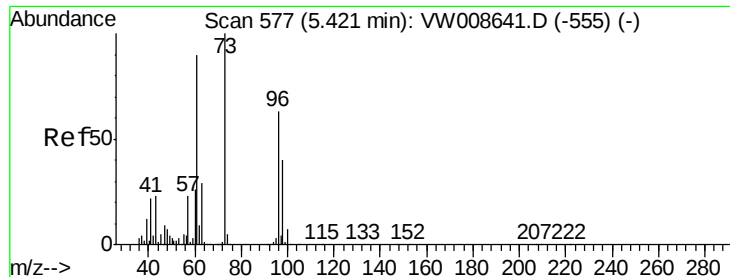
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#18
Methyl Acetate
Concen: 42.271 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.0	28.4





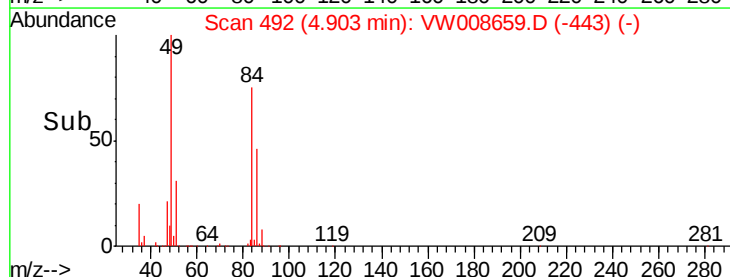
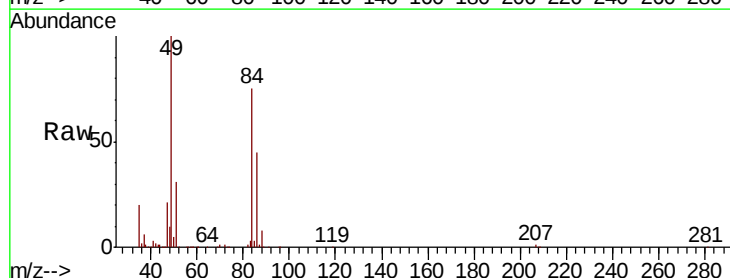
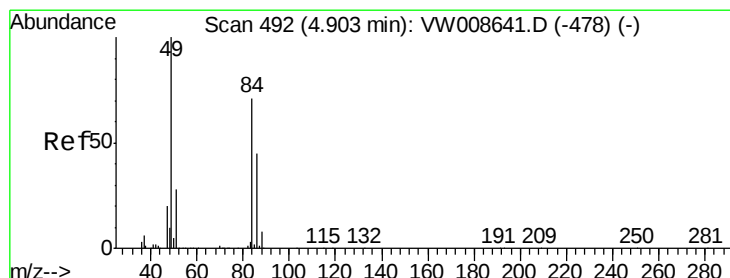
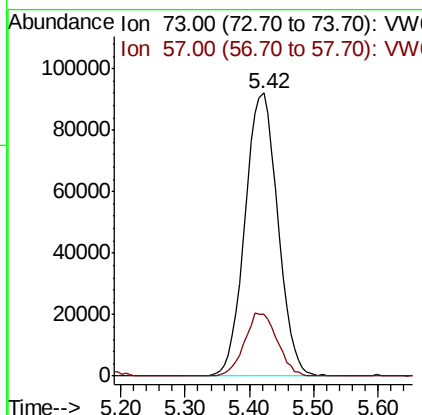
#19
Methvl tert-butvl Ether
Concen: 45.225 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.2	27.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

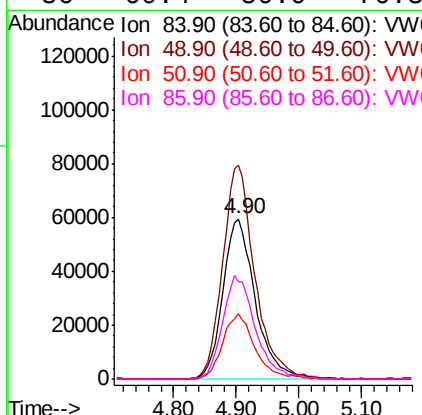
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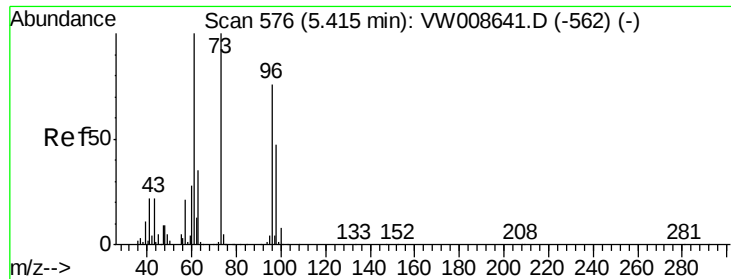
MMDadoda
2/18/2019 12:10:47 AM



#20
Methylene Chloride
Concen: 48.884 ug/l
RT: 4.90 min Scan# 492
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
84	100		
49	133.0	113.3	169.9
51	40.7	32.1	48.1
86	60.4	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 49.547 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

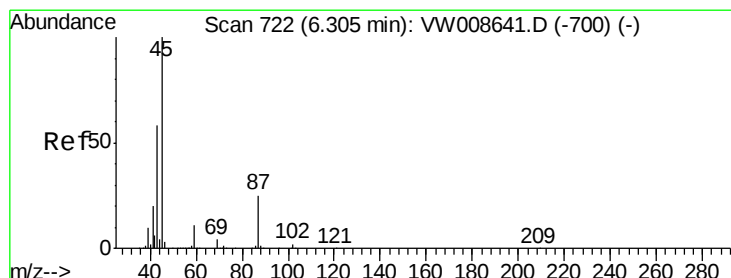
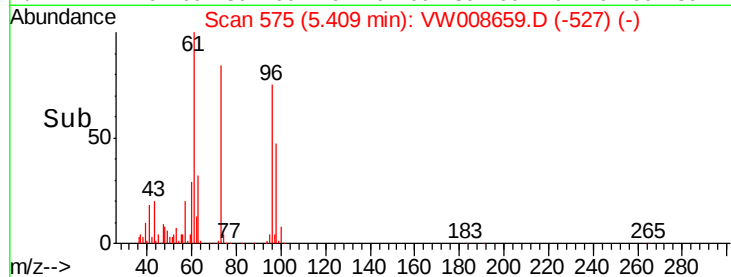
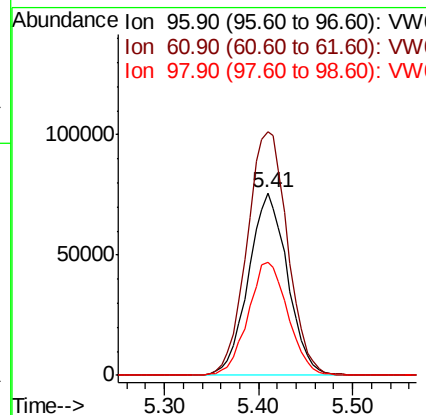
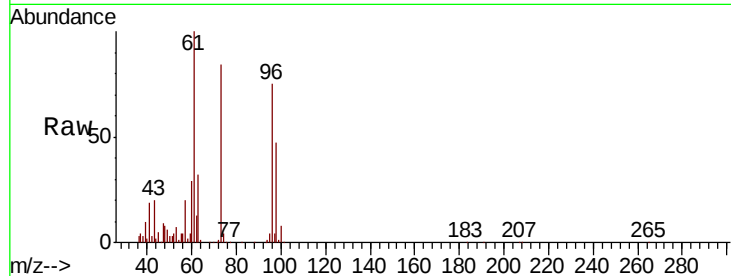
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	220083
Ion Ratio	Lower	Upper	
96	100		
61	132.9	105.9	158.9
98	62.1	49.8	74.6

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#22

Diisopropyl ether

Concen: 47.298 ug/l

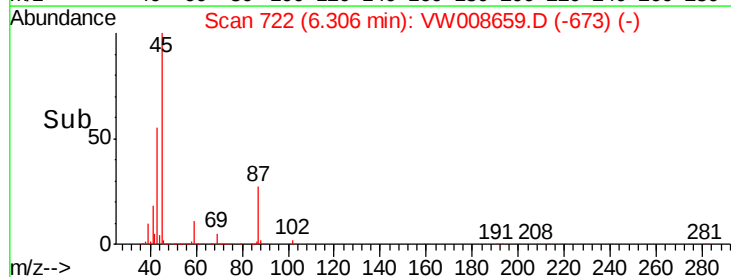
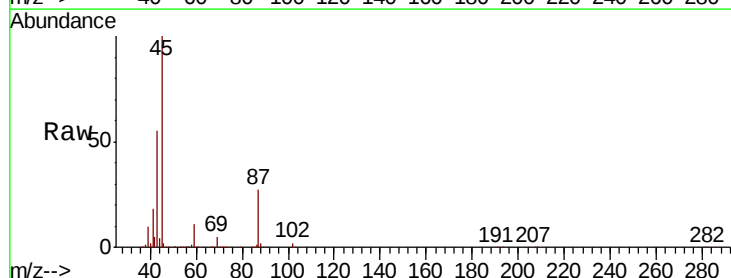
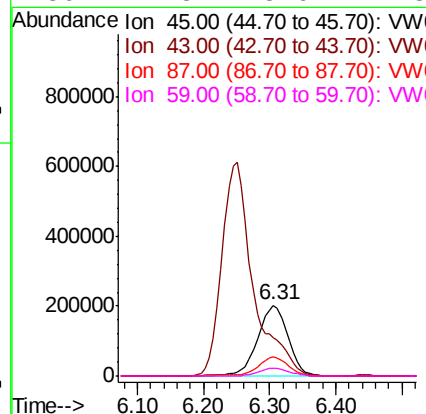
RT: 6.31 min Scan# 722

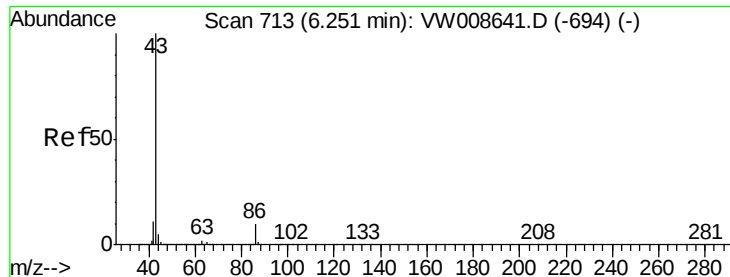
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	45	Resp:	641502
Ion Ratio	Lower	Upper	
45	100		
43	54.2	46.1	69.1
87	26.9	20.5	30.7
59	11.3	8.6	12.8





#23

Vinyl Acetate

Concen: 229.793 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2022767

Ion Ratio Lower Upper

43 100

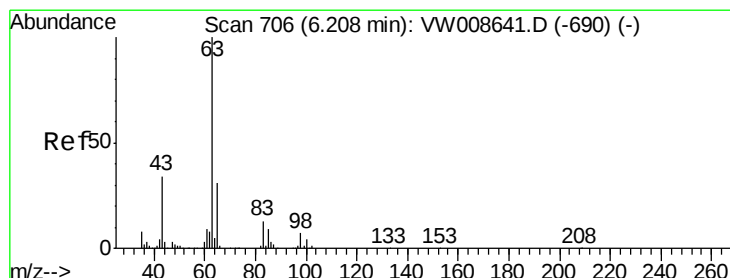
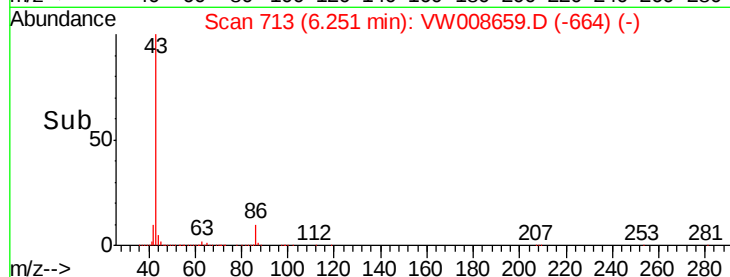
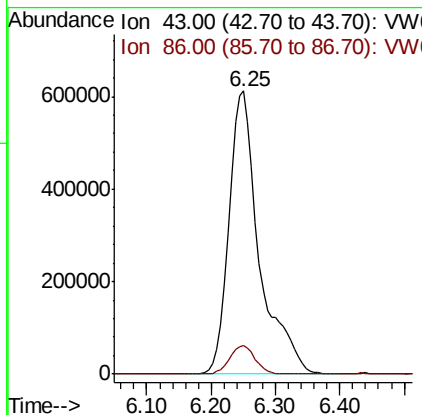
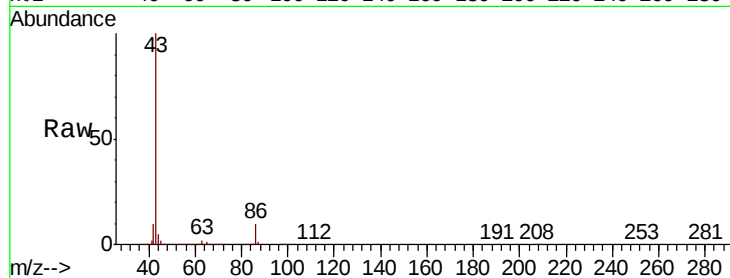
86 9.9 7.9 11.9

Manual Integrations

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2/18/2019 12:10:47 AM



#24

1,1-Dichloroethane

Concen: 48.479 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

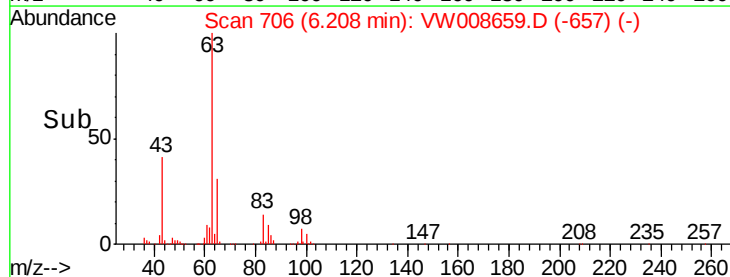
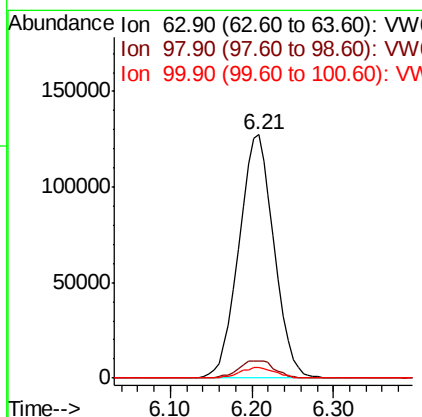
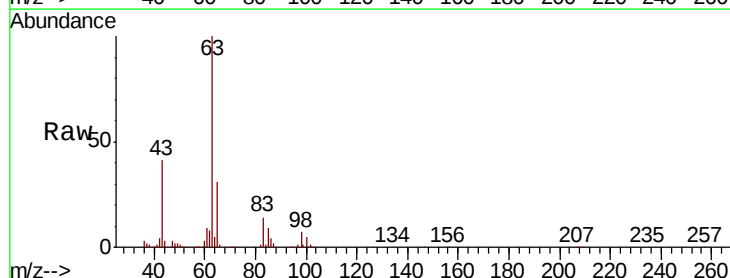
Tgt Ion: 63 Resp: 379416

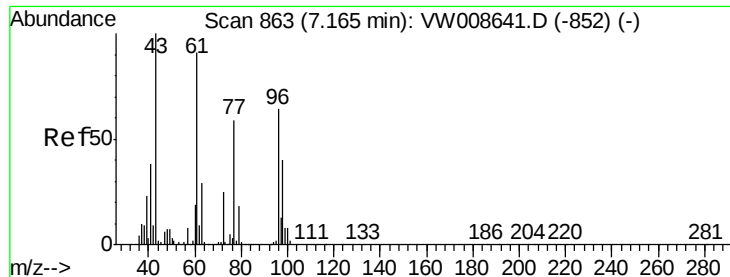
Ion Ratio Lower Upper

63 100

98 6.9 3.6 10.8

100 4.6 2.2 6.6





#25

2-Butanone

Concen: 223.098 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 309633

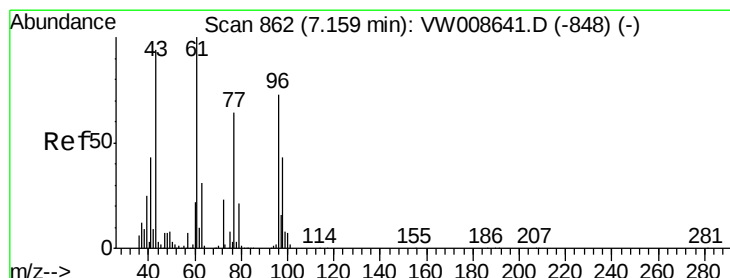
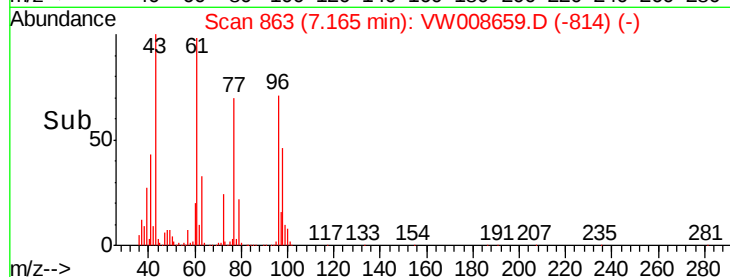
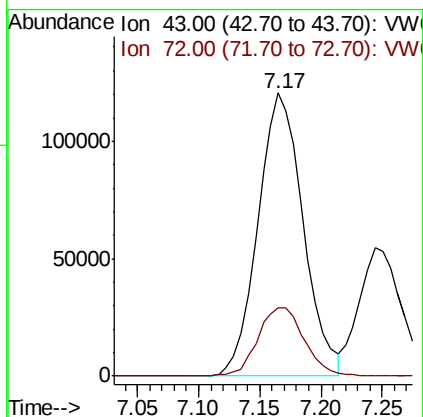
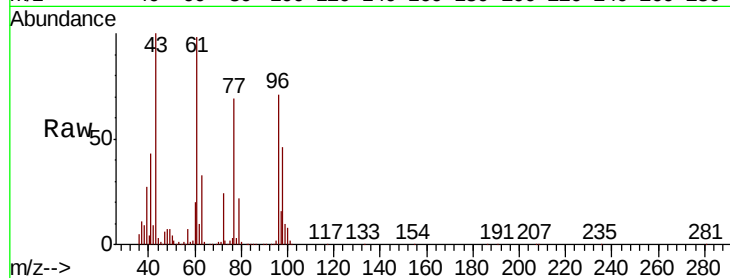
Ion Ratio Lower Upper

43 100

72 24.1 19.7 29.5

Manual Integrations
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2/18/2019 12:10:47 AM



#26

2,2-Dichloropropane

Concen: 52.312 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW008659.D

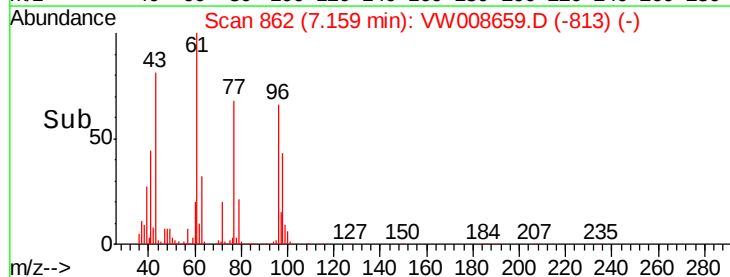
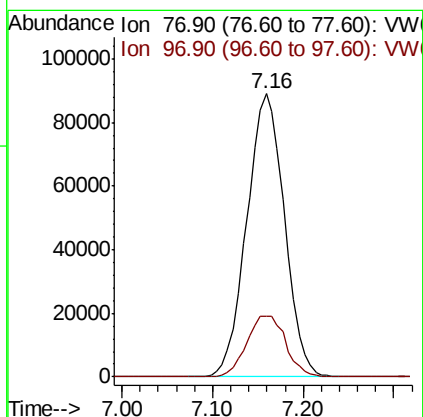
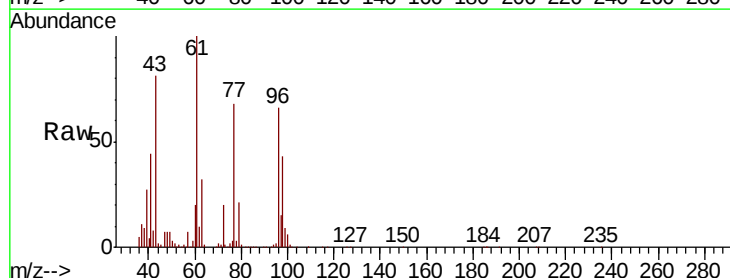
Acq: 14 Feb 2019 11:48

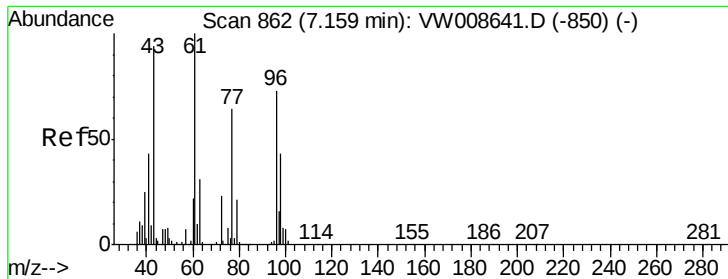
Tgt Ion: 77 Resp: 255765

Ion Ratio Lower Upper

77 100

97 22.3 11.7 35.0





#27

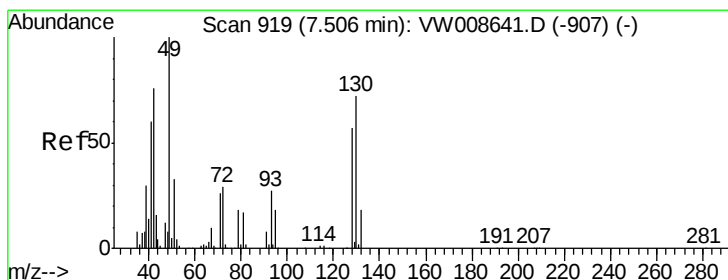
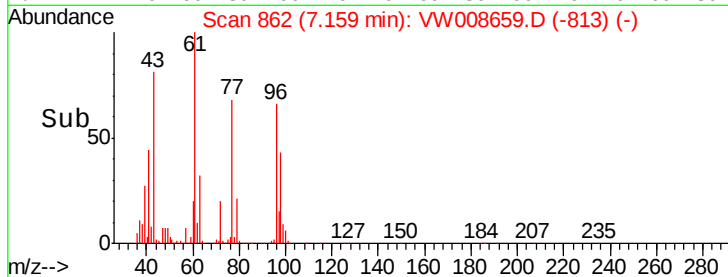
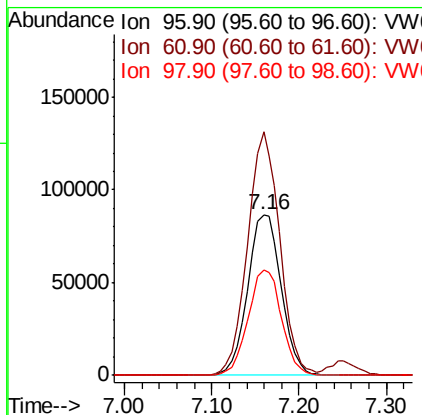
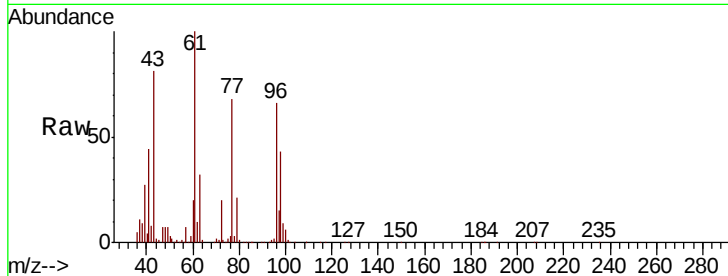
cis-1,2-Dichloroethene
Concen: 48.006 ug/l
RT: 7.16 min Scan# 862
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		230580		
61	145.4	0.0	286.4		
98	65.5	0.0	125.0		

Manual Integrations
APPROVED

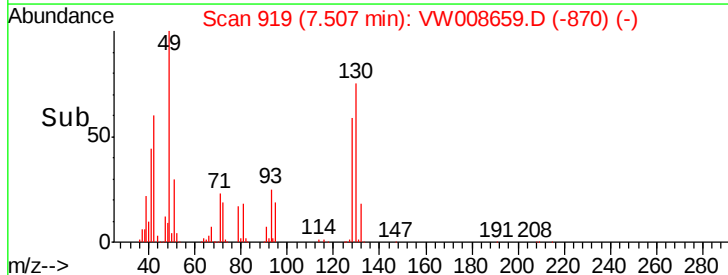
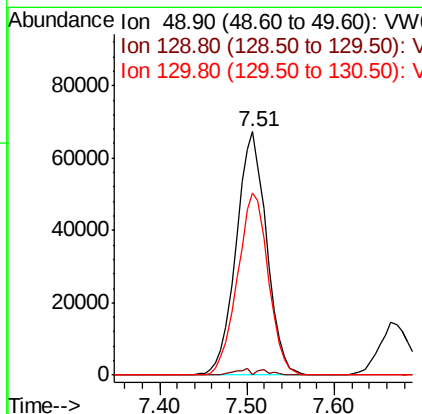
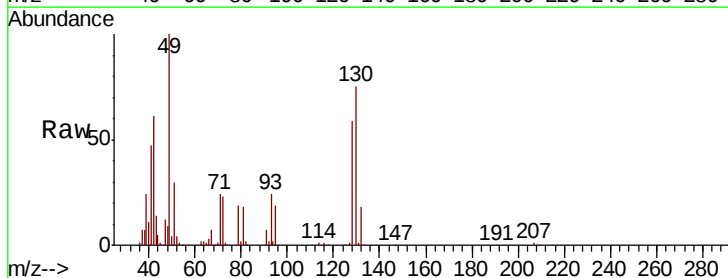
MMDadoda
2/18/2019 12:10:47 AM

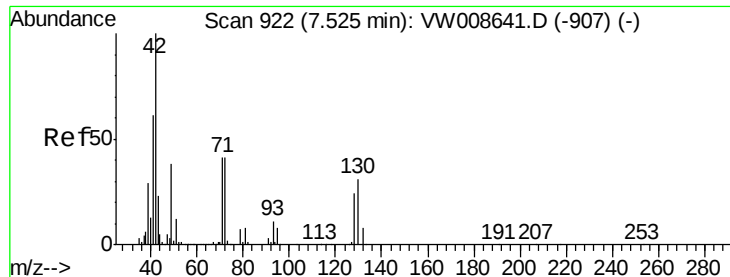


#28

Bromochloromethane
Concen: 48.997 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		161879		
129	1.4	0.0	3.2		
130	76.0	59.4	89.0		





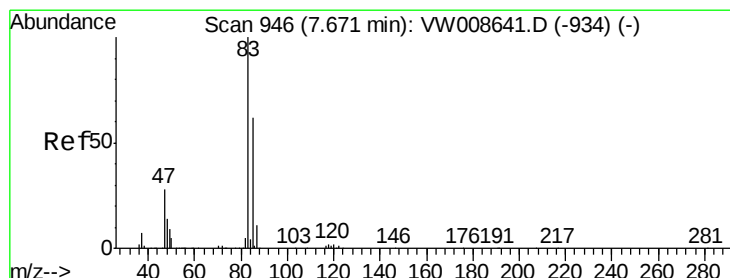
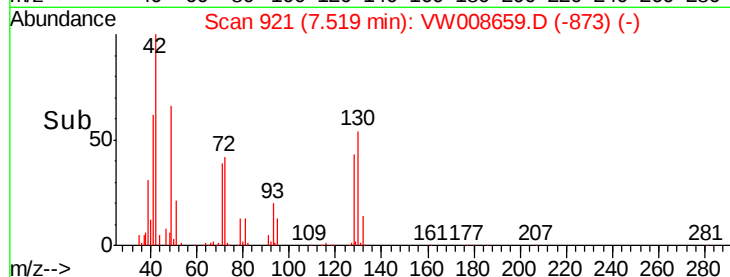
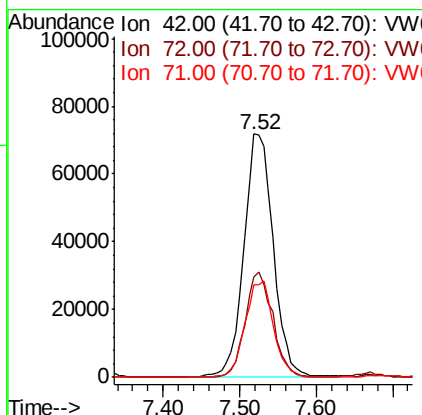
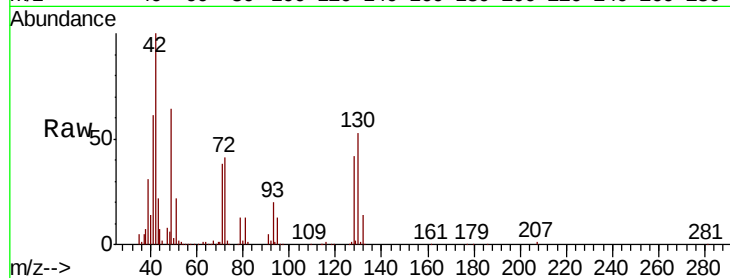
#29
Tetrahydrofuran
Concen: 208.817 ug/l
RT: 7.52 min Scan# 921
Delta R.T. -0.01 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion:	42	Resp:	191021
Ion Ratio		Lower	Upper
42	100		
72	41.1	32.2	48.2
71	38.7	31.0	46.6

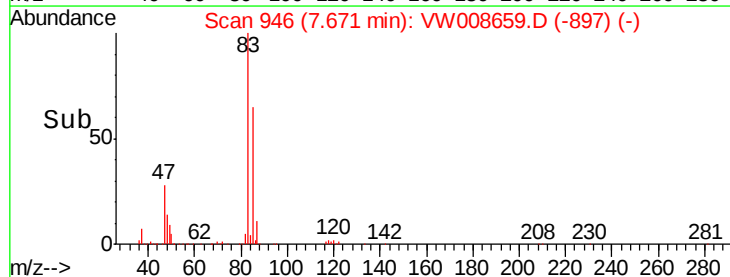
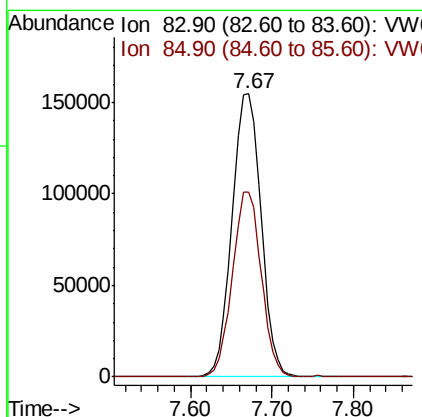
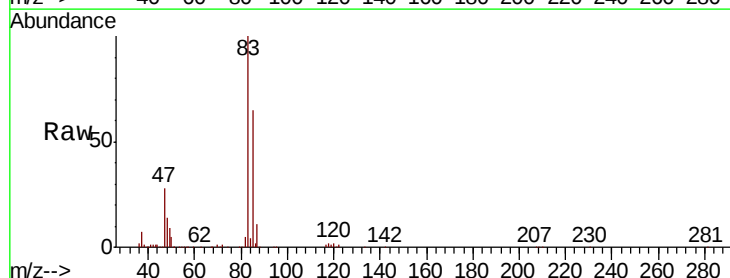
Manual Integrations
APPROVED

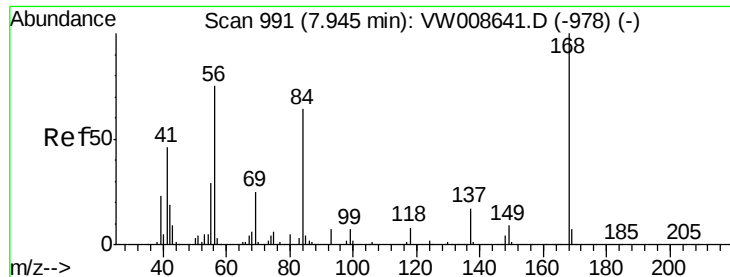
MMDadoda
2/18/2019 12:10:47 AM



#30
Chloroform
Concen: 48.524 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion:	83	Resp:	380525
Ion Ratio		Lower	Upper
83	100		
85	65.2	49.8	74.8





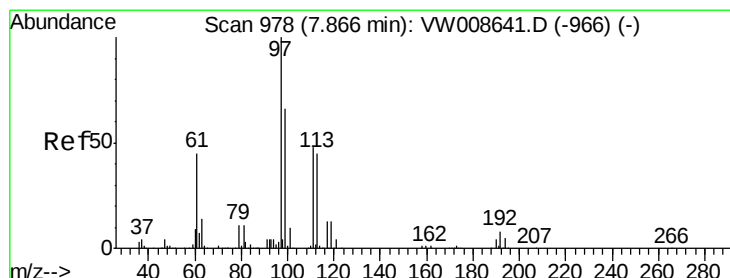
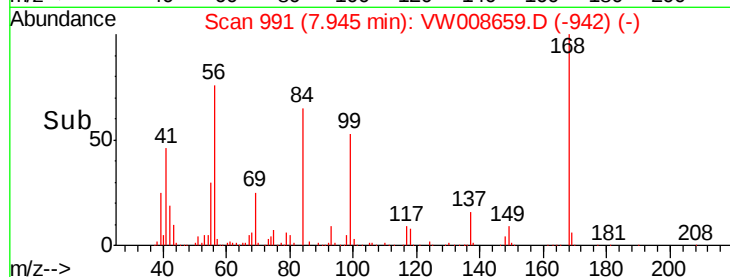
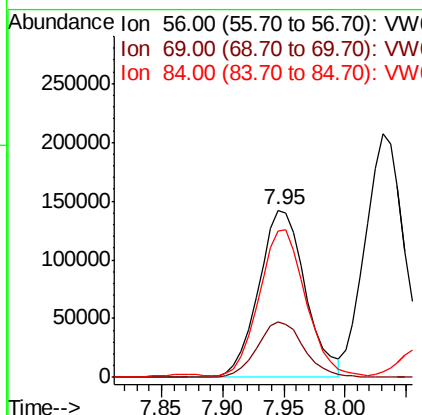
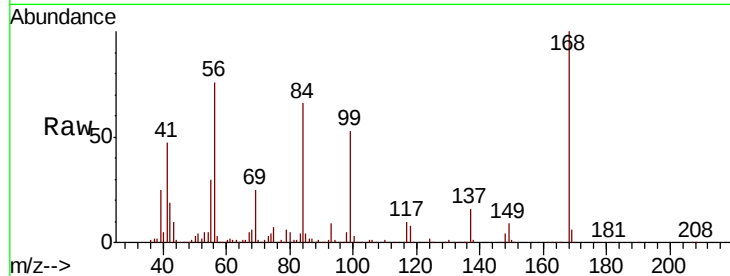
#31
Cyclohexane
Concen: 47.914 ug/l
RT: 7.95 min Scan# 991
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.4	39.6
84	85.9	67.4	101.2

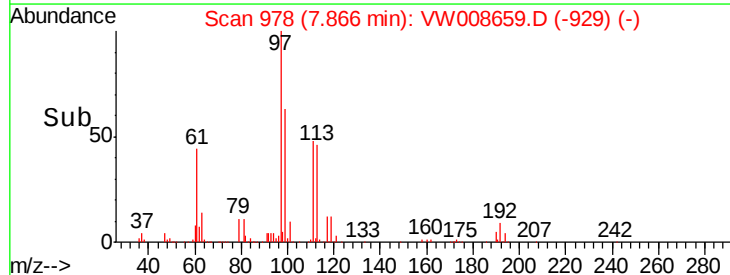
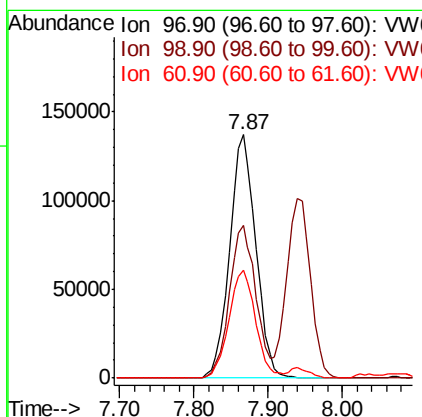
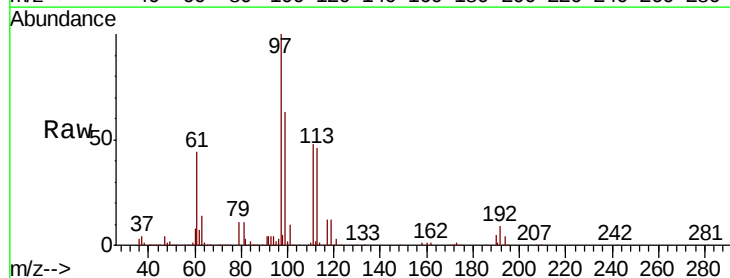
Manual Integrations
APPROVED

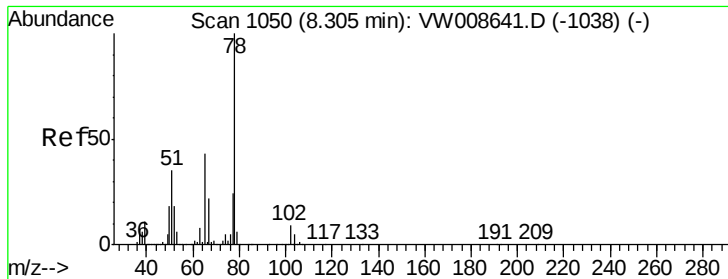
MMDadoda
2/18/2019 12:10:47 AM



#32
1,1,1-Trichloroethane
Concen: 50.789 ug/l
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.6	77.4
61	45.4	35.8	53.6





#33

1,2-Dichloroethane-d4

Concen: 49.126 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampled :

VSTDCCC050

Tot Ion: 65 Resp: 212187

Ion Ratio Lower Upper

65 100

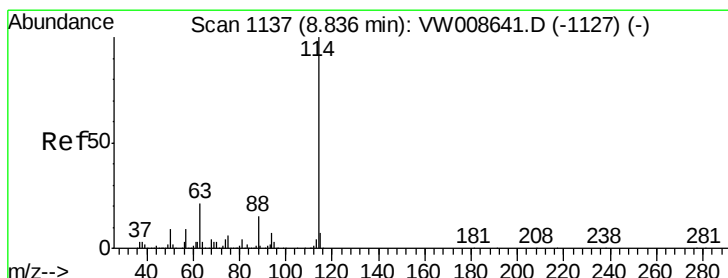
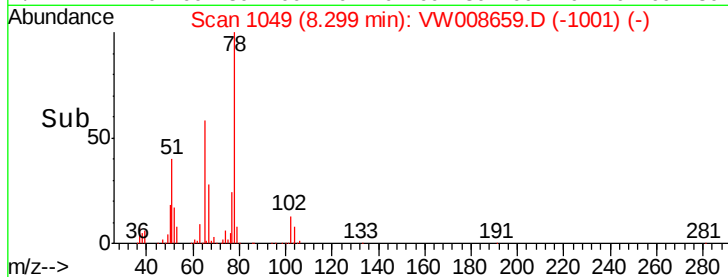
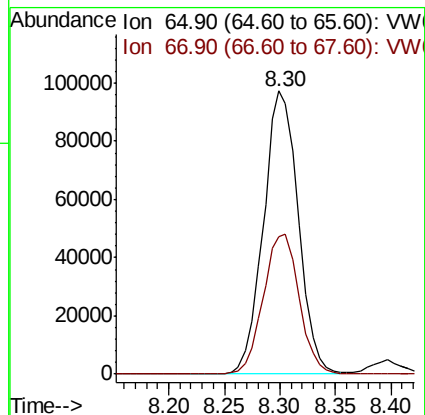
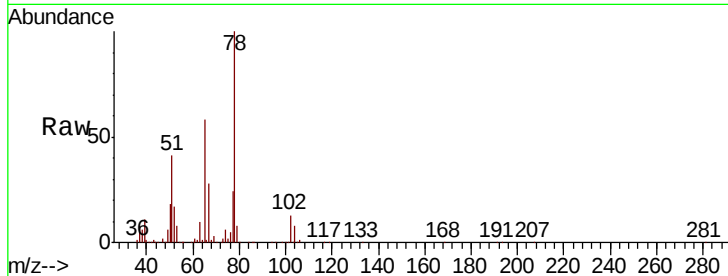
67 50.9 0.0 102.0

Manual Integrations

APPROVED

MMDadoda

2/18/2019 12:10:47 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

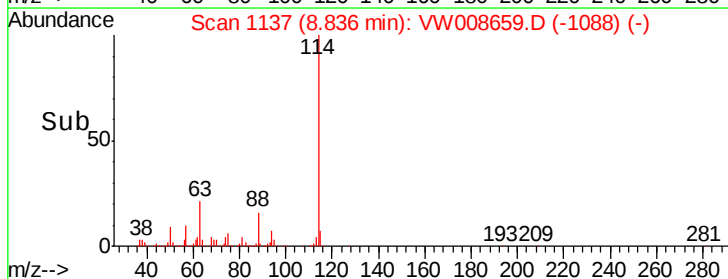
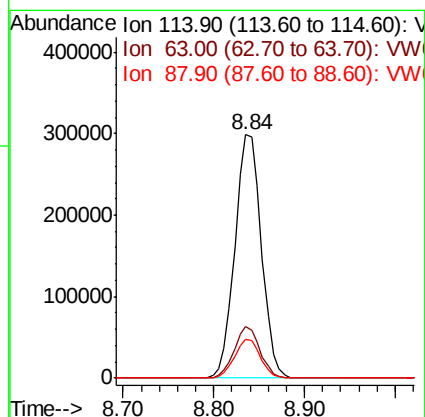
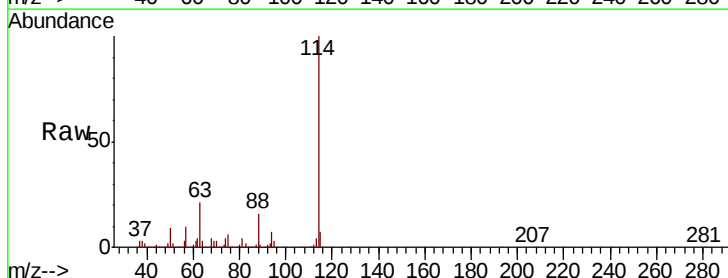
Tgt Ion: 114 Resp: 603620

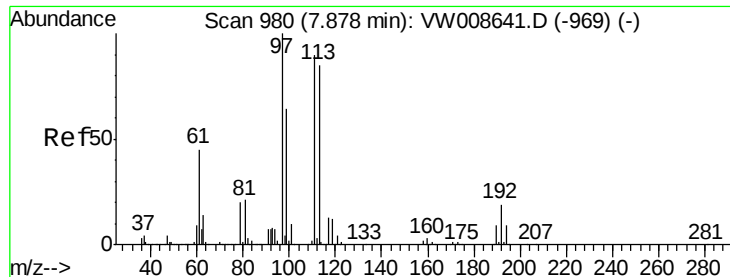
Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.2

88 15.9 0.0 29.6





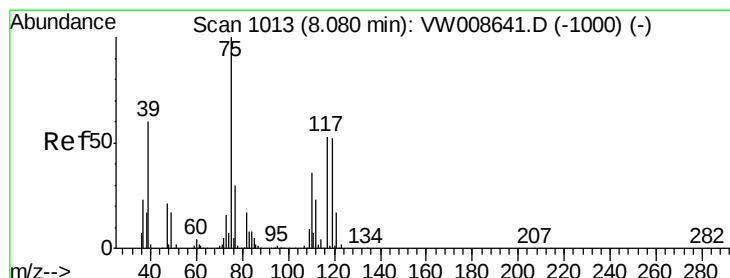
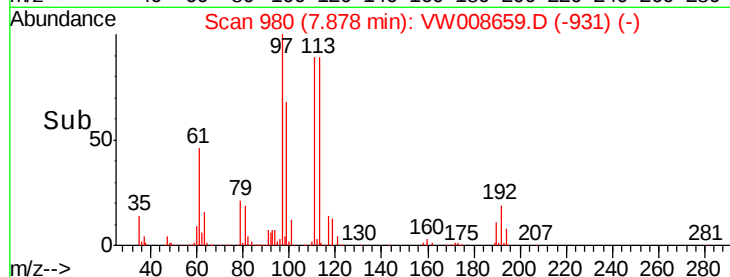
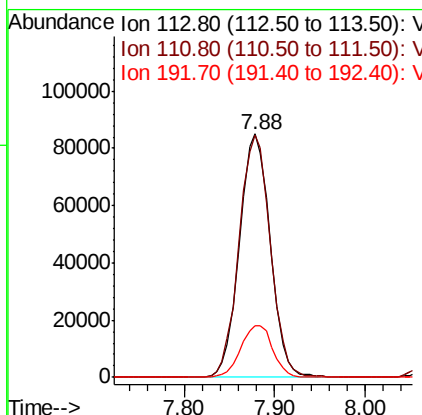
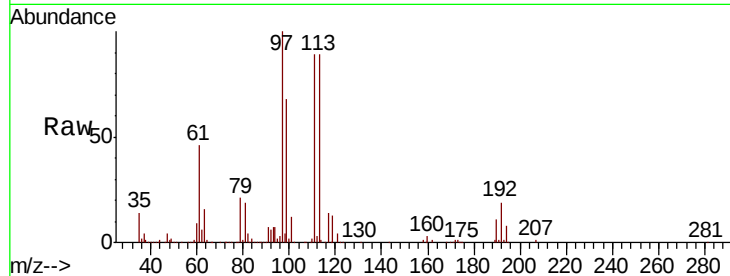
#35
 Dibromofluoromethane
 Concen: 53.431 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	200266		
111	101.2		84.0	126.0
192	22.0		17.4	26.2

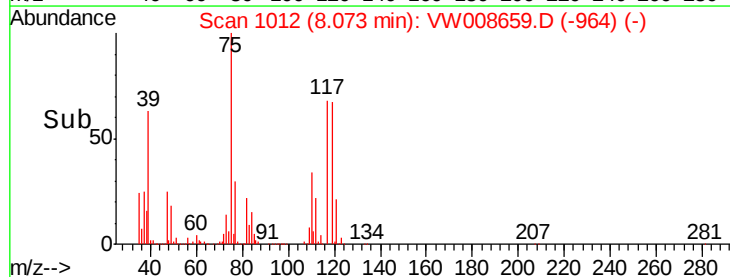
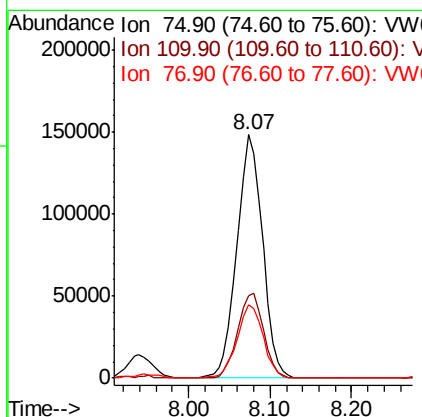
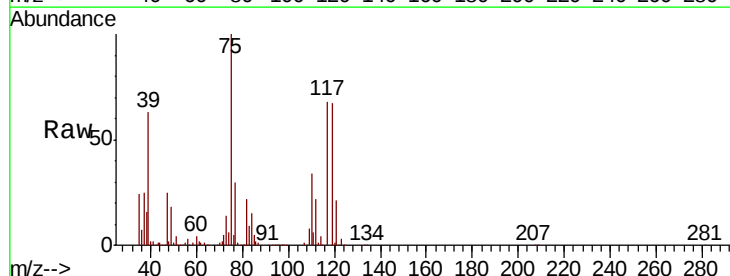
Manual Integrations
 APPROVED

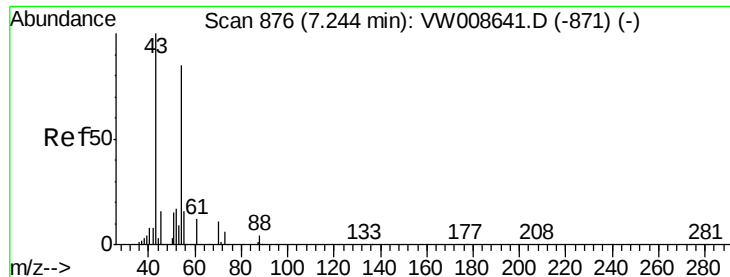
MMDadoda
 2/18/2019 12:10:47 AM



#36
 1,1-Dichloropropene
 Concen: 53.394 ug/l
 RT: 8.07 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	323803		
110	35.1		17.8	53.3
77	30.7		24.7	37.1





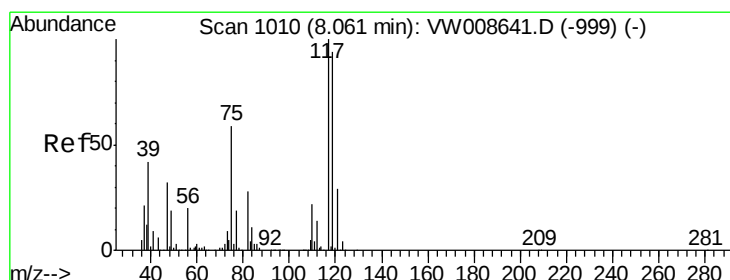
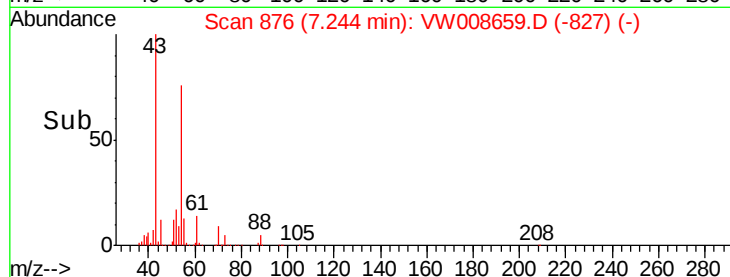
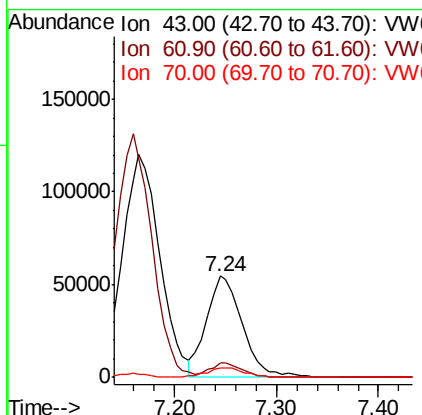
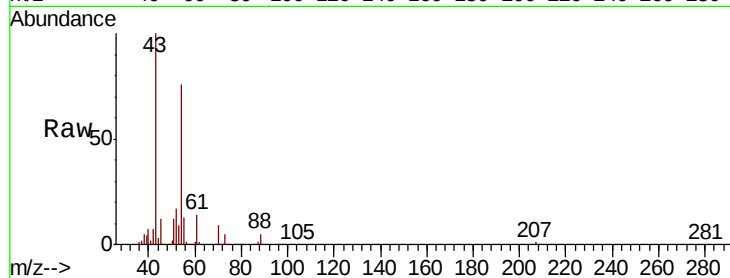
#37
Ethyl Acetate
Concen: 45.738 ug/l
RT: 7.24 min Scan# 876
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.5	15.7
70	10.1	8.1	12.1

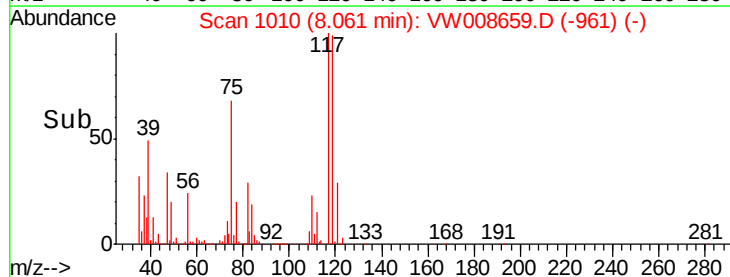
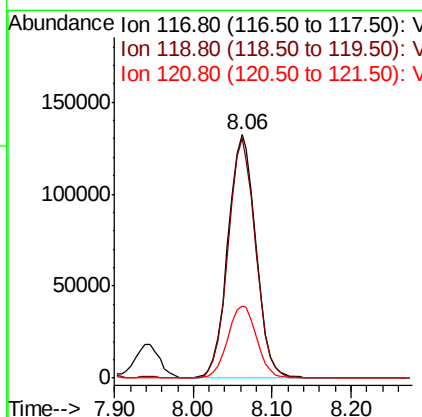
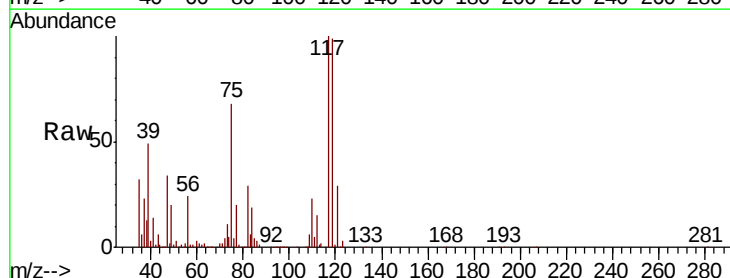
Manual Integrations
APPROVED

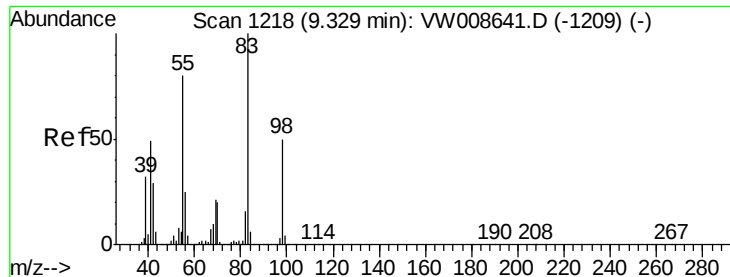
MMDadoda
2/18/2019 12:10:47 AM



#38
Carbon Tetrachloride
Concen: 53.897 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.6	75.1	112.7
121	29.5	23.5	35.3





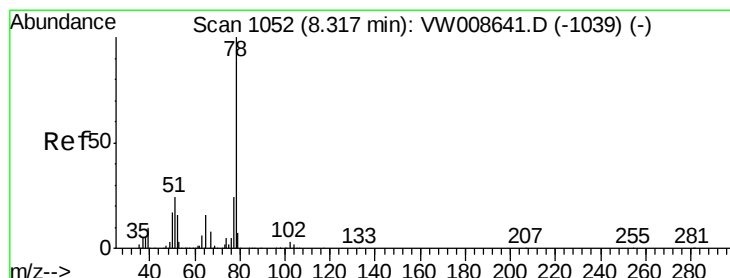
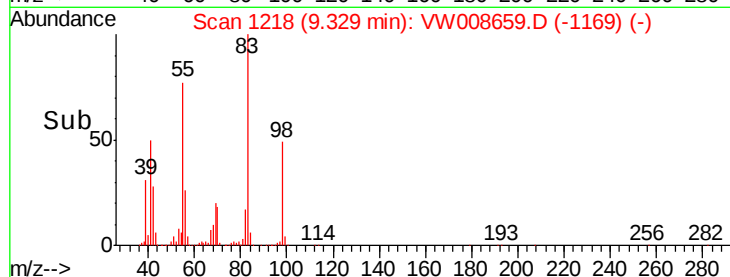
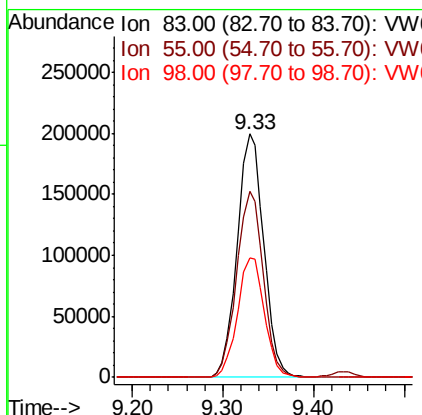
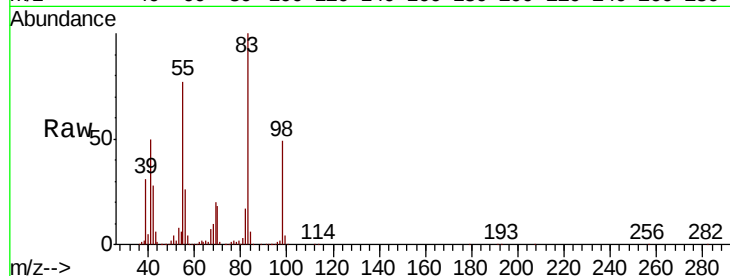
#39
Methvlcvclohexane
Concen: 52.903 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	405793
Ion	Ratio	Lower	Upper
83	100		
55	76.7	63.9	95.9
98	49.0	40.2	60.2

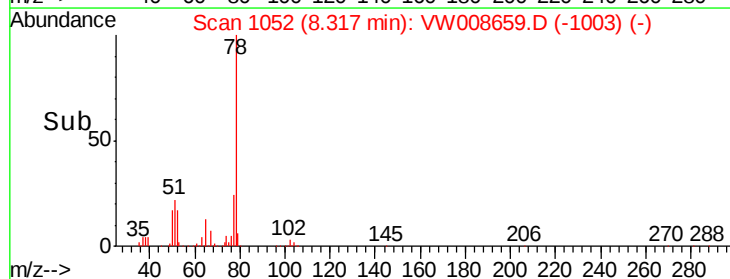
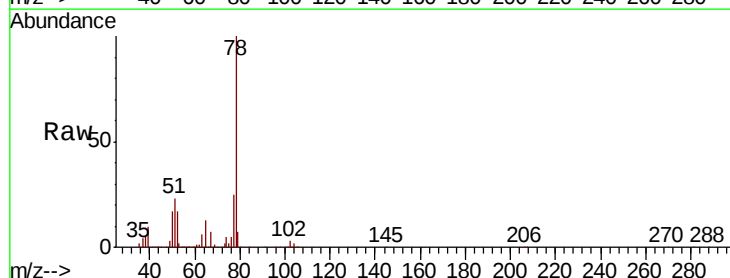
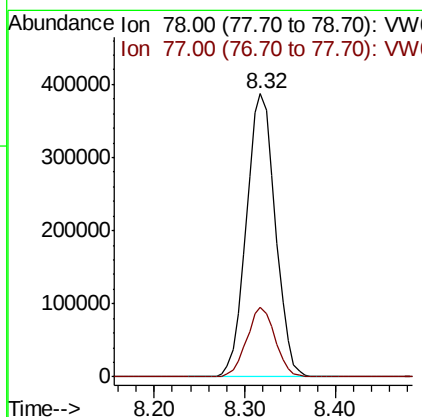
Manual Integrations
APPROVED

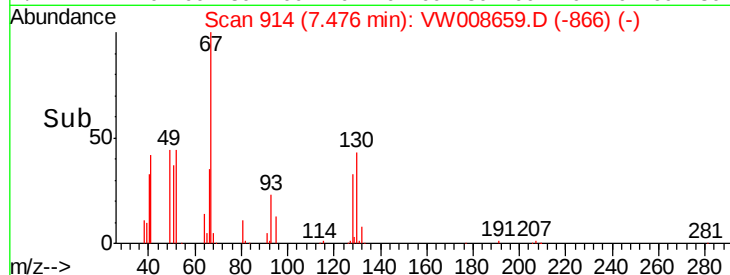
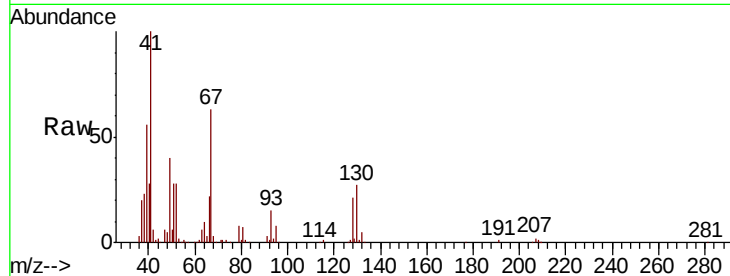
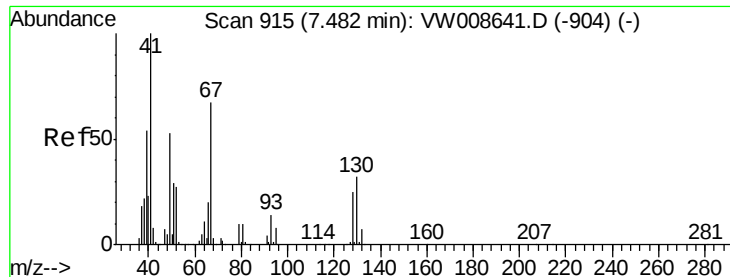
MMDadoda
2/18/2019 12:10:47 AM



#40
Benzene
Concen: 51.612 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	78.00	Resp	854824
Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.5	29.3





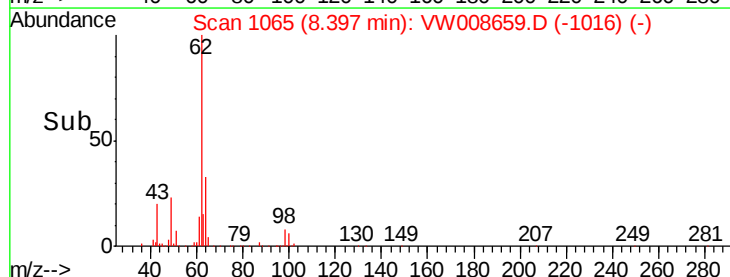
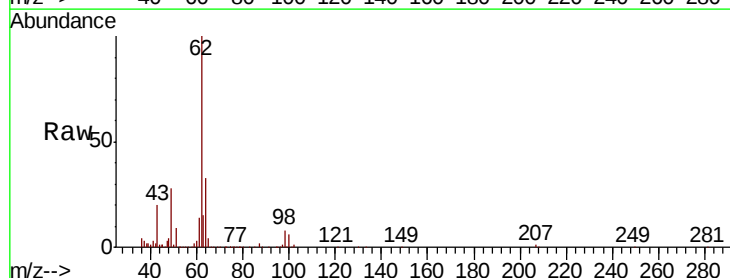
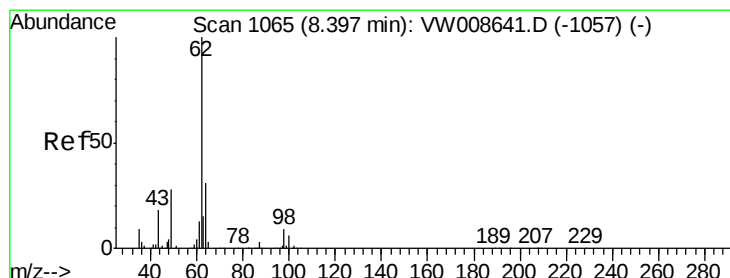
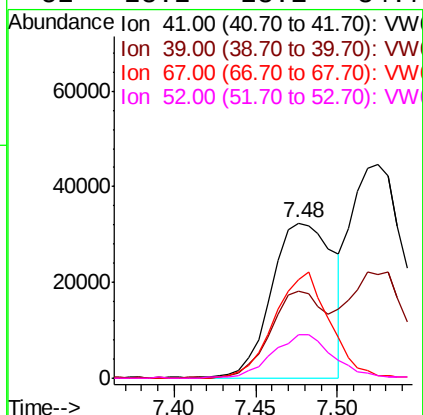
#41
Methacrylonitrile
Concen: 51.609 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tot Ion	Ratio	Lower	Upper
41	100		
39	49.1	39.7	59.5
67	61.6	52.5	78.7
52	28.2	23.1	34.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

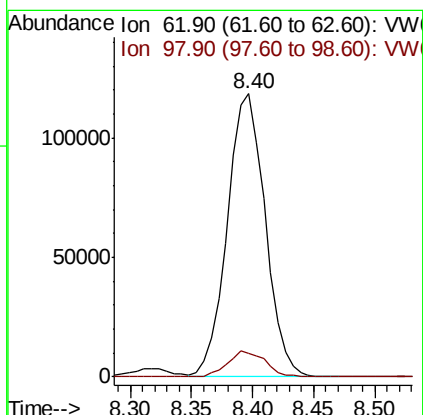
Manual Integrations
APPROVED

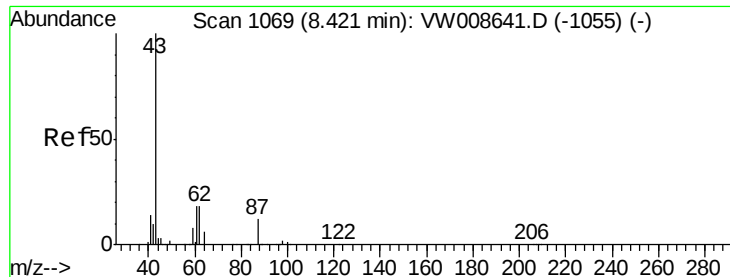
MMDadoda
2/18/2019 12:10:47 AM



#42
1,2-Dichloroethane
Concen: 49.306 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2





#43

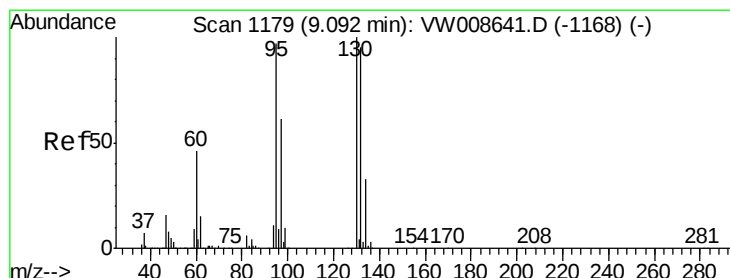
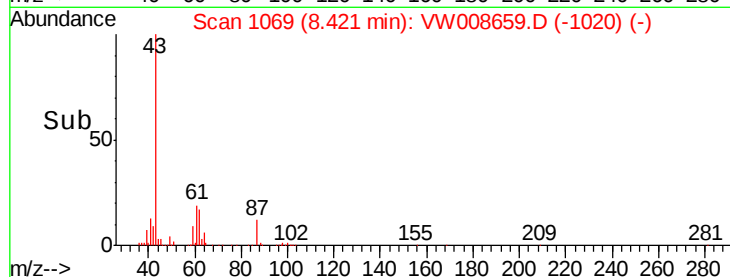
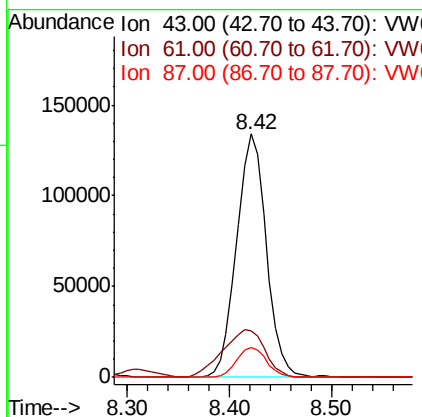
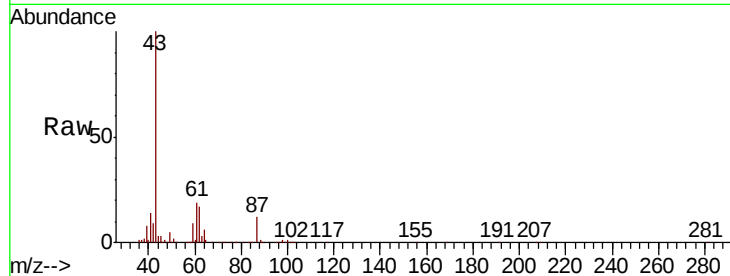
Isopropyl Acetate
 Concen: 46.340 ug/l
 RT: 8.42 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.3	21.4	32.2
87	12.6	9.8	14.8

Manual Integrations
 APPROVED

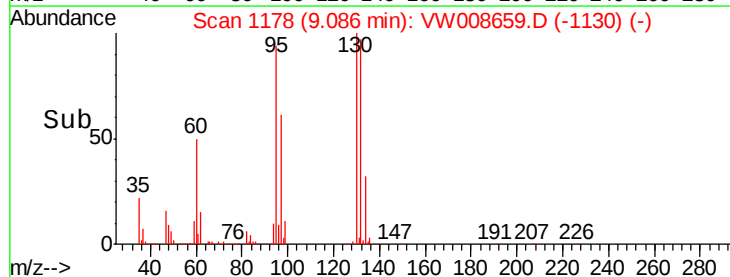
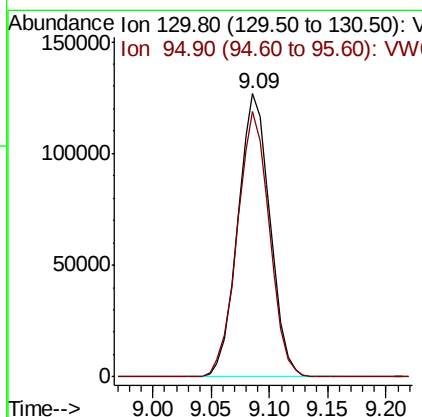
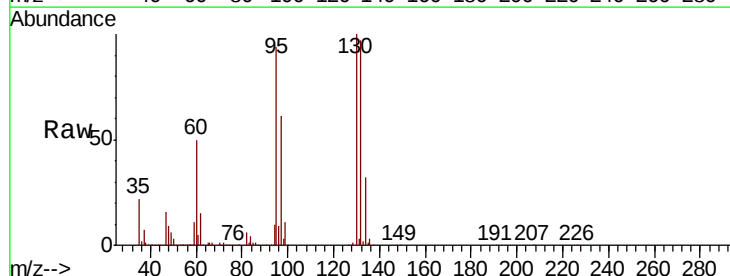
MMDadoda
 2/18/2019 12:10:47 AM

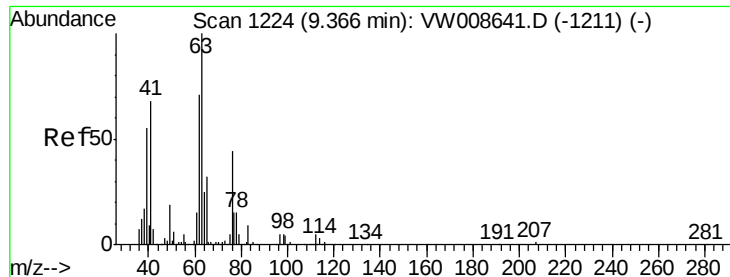


#44

Trichloroethene
 Concen: 53.054 ug/l
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	193.4





#45

1,2-Dichloropropane

Concen: 49.736 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 203865

Ion Ratio Lower Upper

63 100

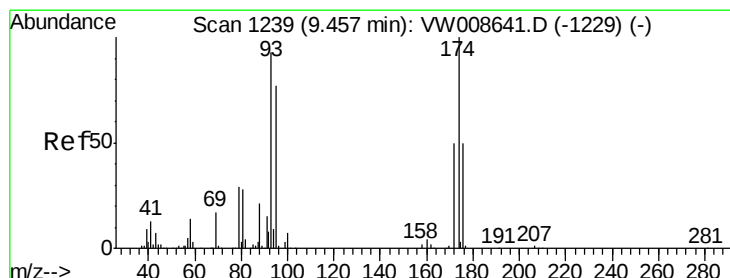
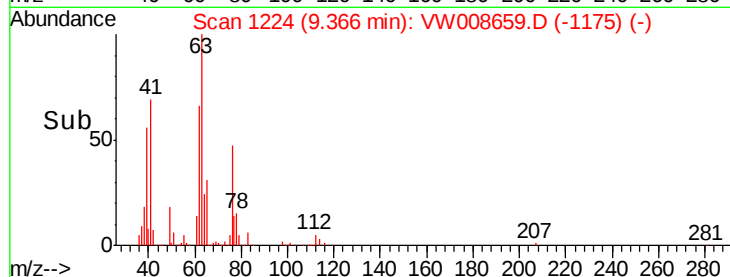
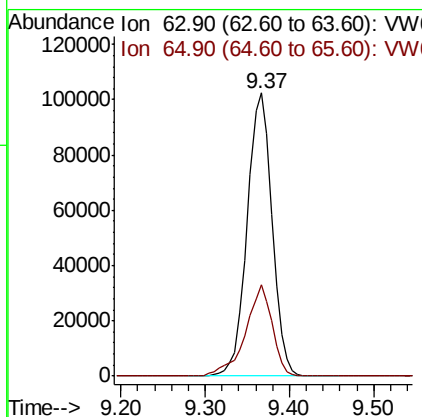
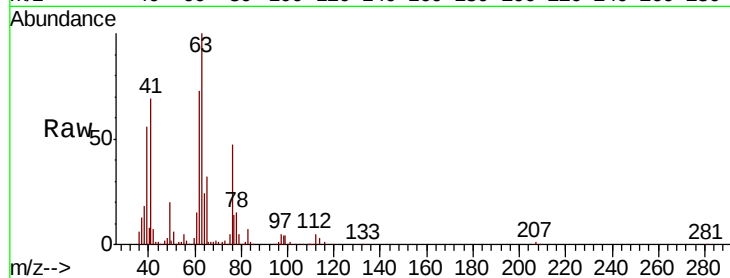
65 32.1 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

2/18/2019 12:10:47 AM



#46

Dibromomethane

Concen: 48.104 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

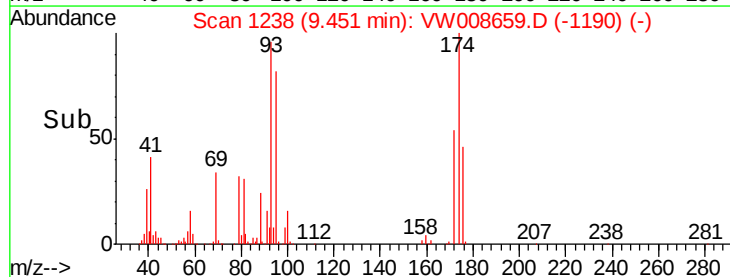
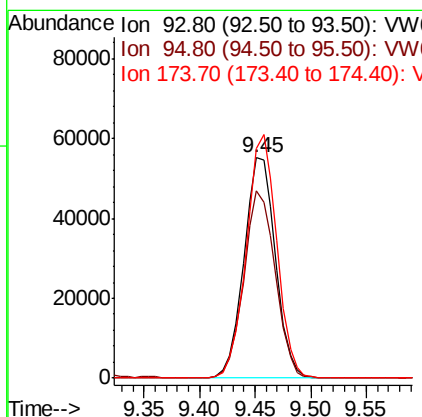
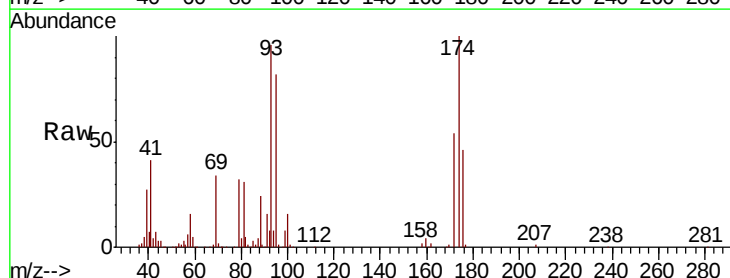
Tgt Ion: 93 Resp: 108617

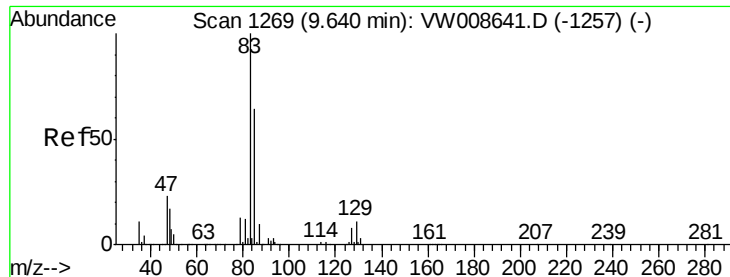
Ion Ratio Lower Upper

93 100

95 84.8 65.8 98.8

174 106.8 82.5 123.7





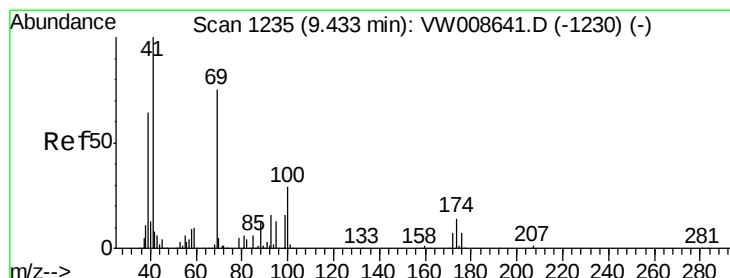
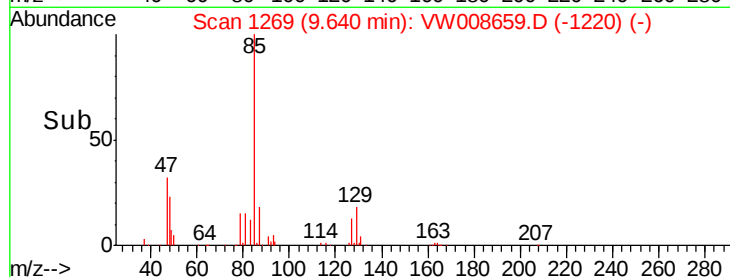
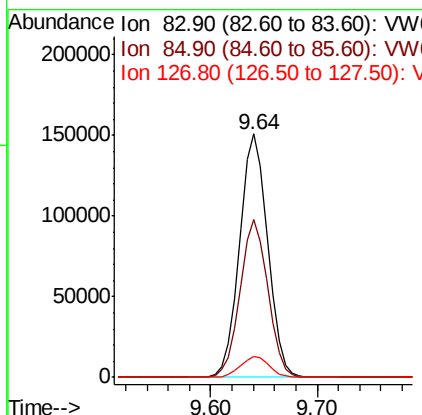
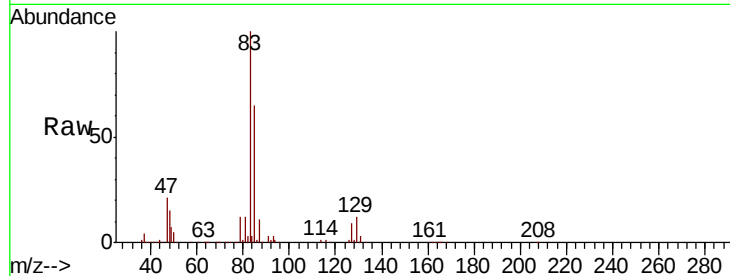
#47
Bromodichloromethane
Concen: 51.533 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	279644		
85	64.8		51.2	76.8
127	8.6		6.4	9.6

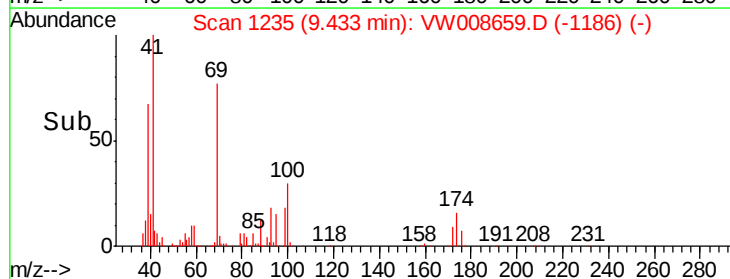
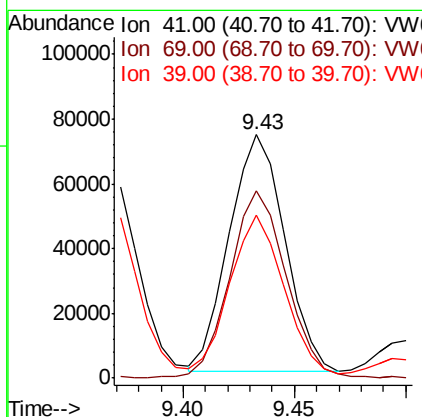
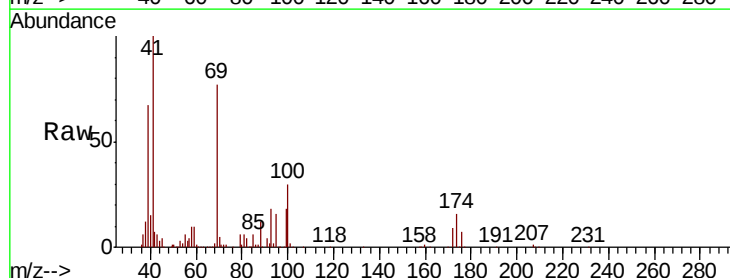
Manual Integrations
APPROVED

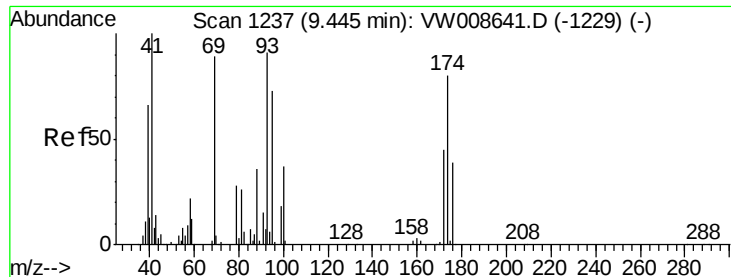
MMDadoda
2/18/2019 12:10:47 AM



#48
Methyl methacrylate
Concen: 47.038 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	127159		
69	80.0		64.1	96.1
39	64.0		52.3	78.5





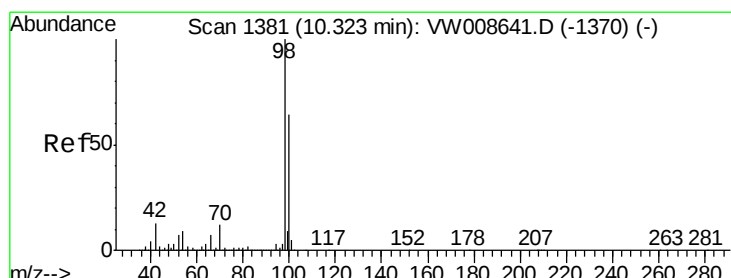
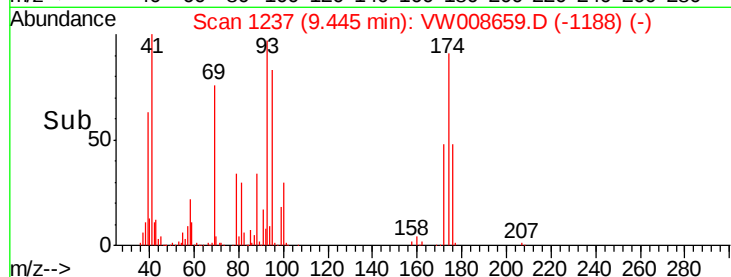
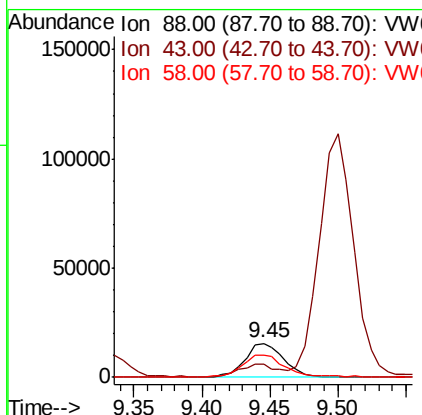
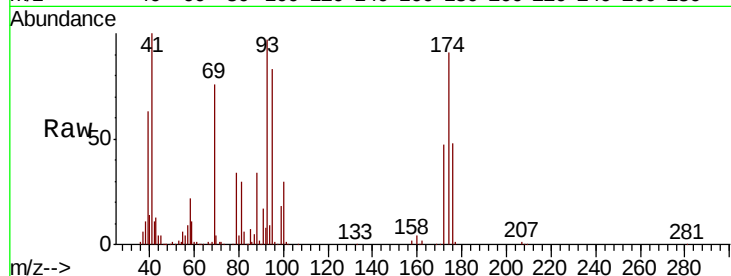
#49
1,4-Dioxane
Concen: 864.155 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.6	31.0	46.6
58	74.0	57.0	85.6

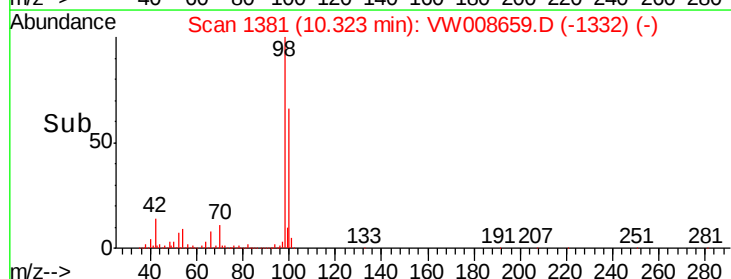
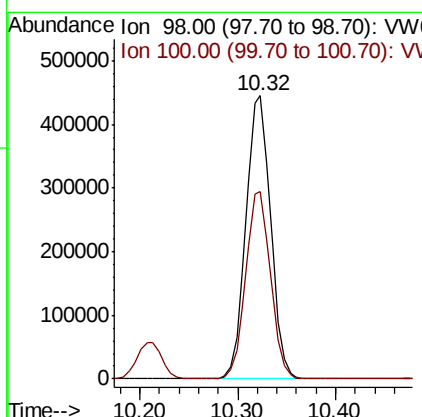
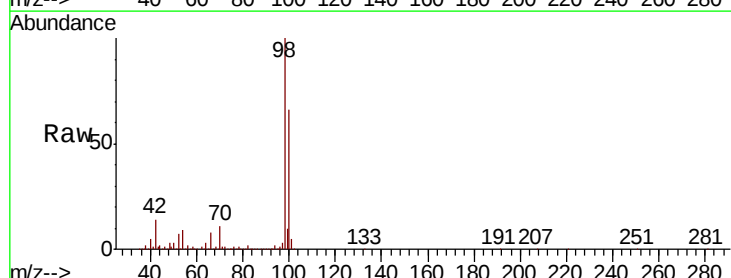
Manual Integrations
APPROVED

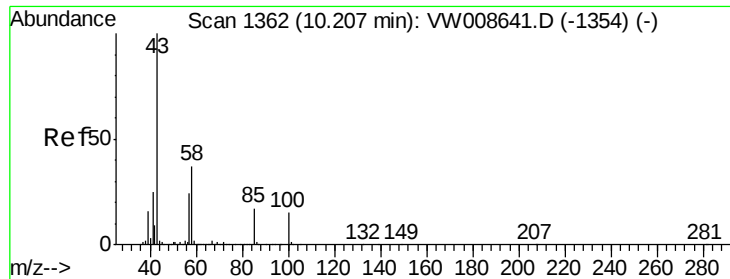
MMDadoda
2/18/2019 12:10:47 AM



#50
Toluene-d8
Concen: 53.923 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 226.517 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 678754

Ion Ratio Lower Upper

43 100

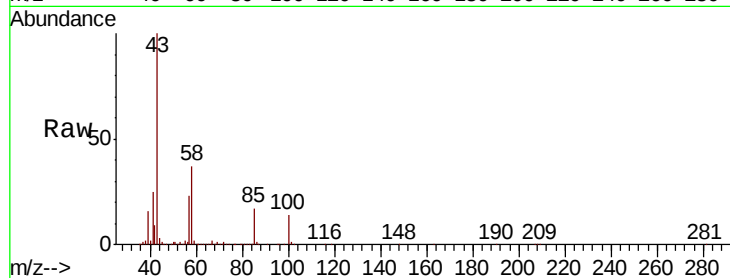
58 37.1 29.0 43.6

Manual Integrations

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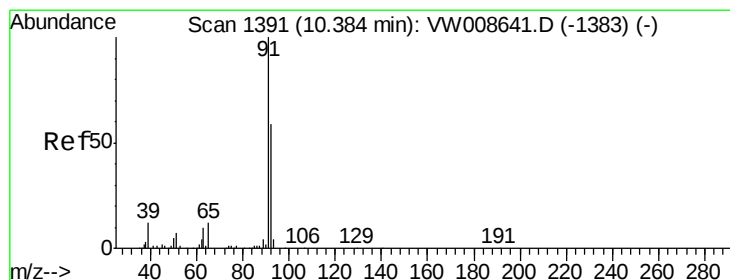
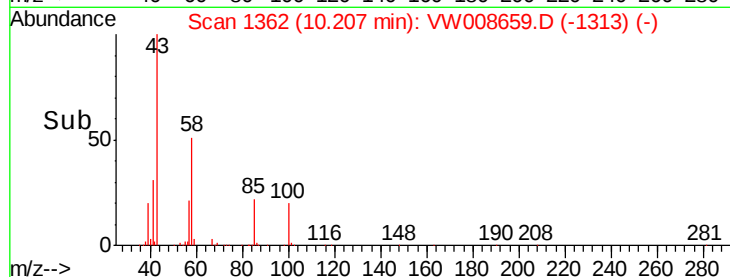
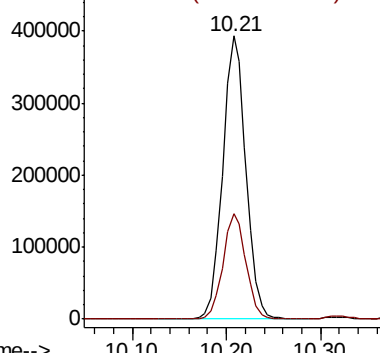
MMDadoda

2/18/2019 12:10:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 51.433 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW008659.D

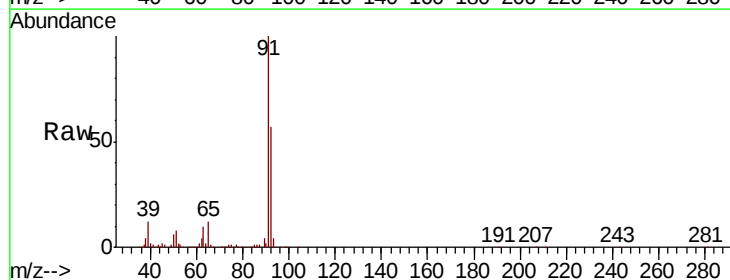
Acq: 14 Feb 2019 11:48

Tgt Ion: 92 Resp: 549553

Ion Ratio Lower Upper

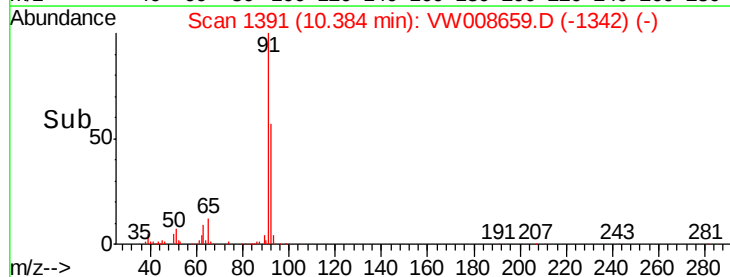
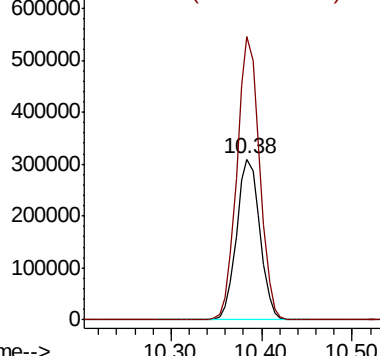
92 100

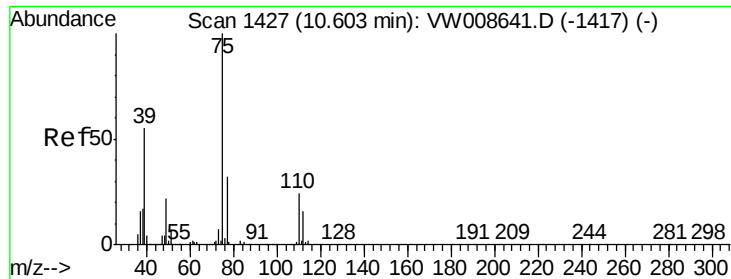
91 171.5 135.8 203.6



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





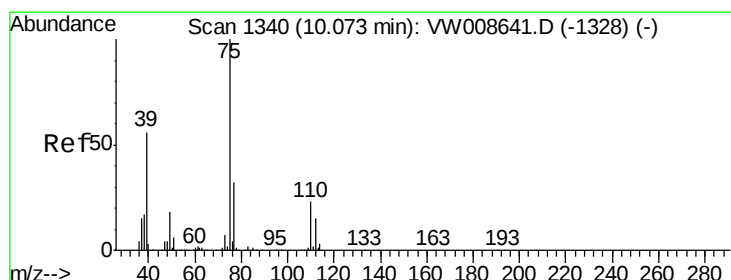
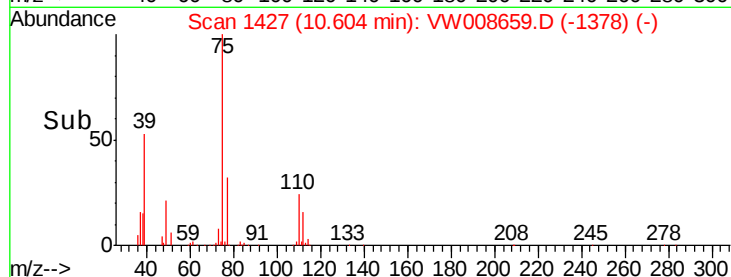
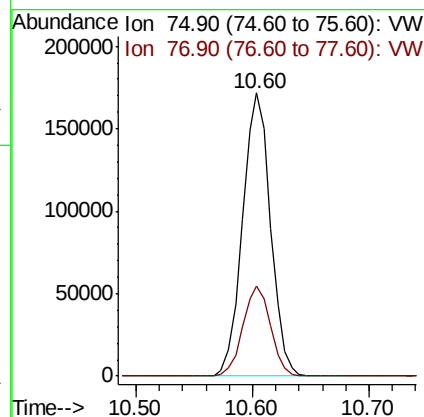
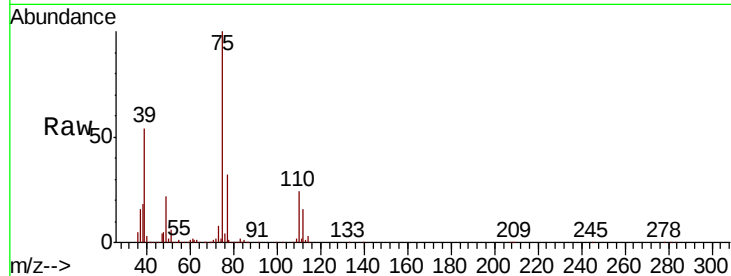
#53
t-1,3-Dichloropropene
Concen: 50.266 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5

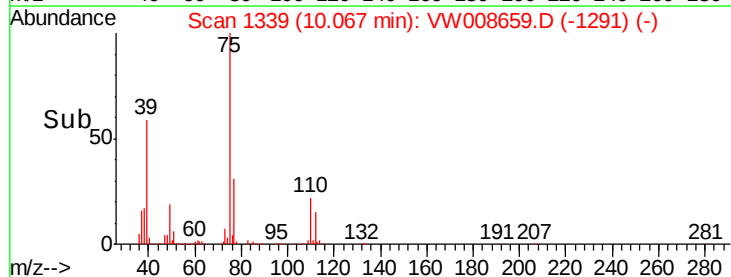
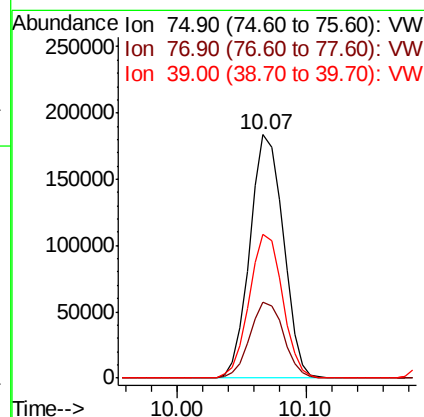
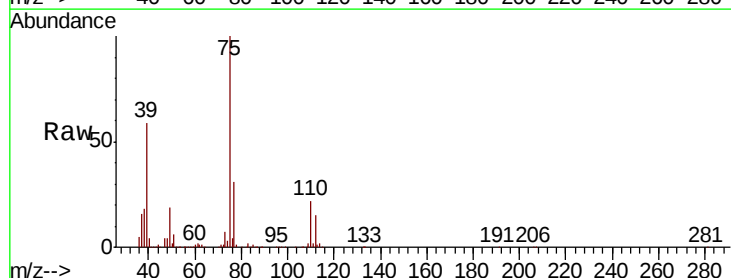
Manual Integrations
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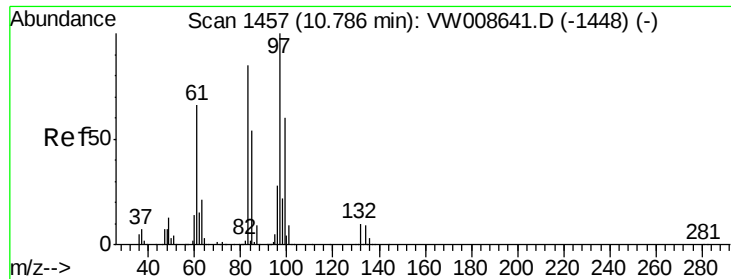
MMDadoda
2/18/2019 12:10:47 AM



#54
cis-1,3-Dichloropropene
Concen: 50.991 ug/l
RT: 10.07 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	58.9	44.5	66.7





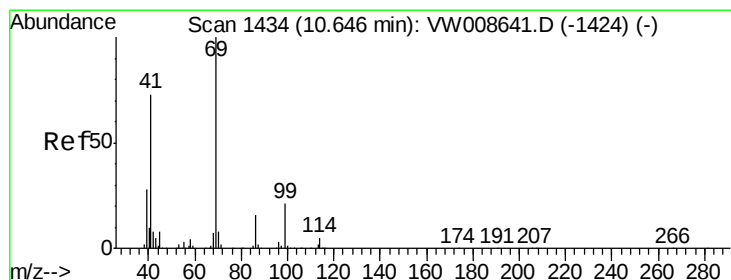
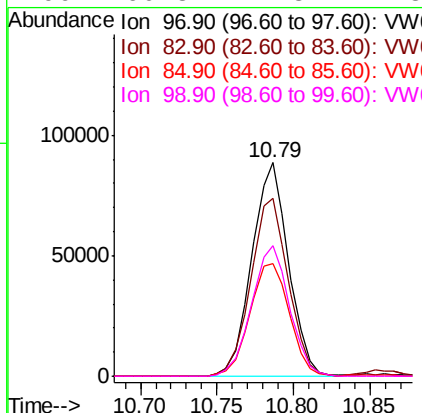
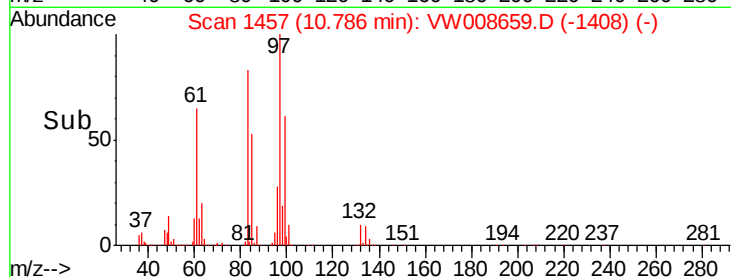
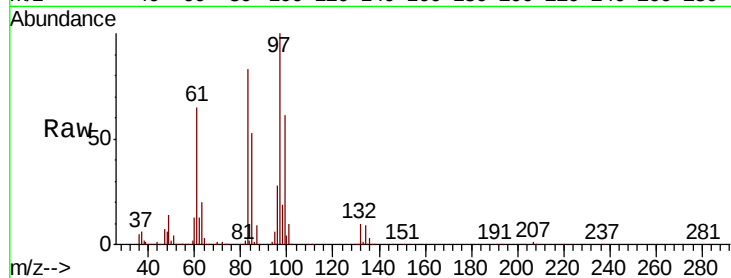
#55
 1,1,2-Trichloroethane
 Concen: 47.670 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	147689
Ion	Ratio	Lower	Upper
97	100		
83	83.1	68.4	102.6
85	52.9	43.1	64.7
99	60.8	47.8	71.8

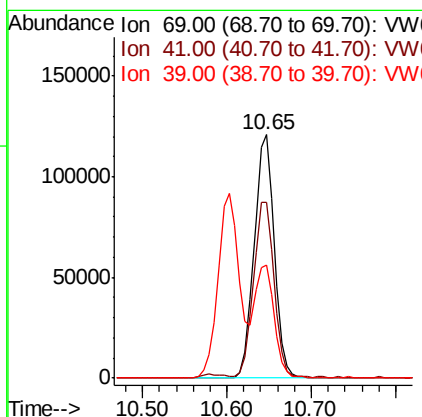
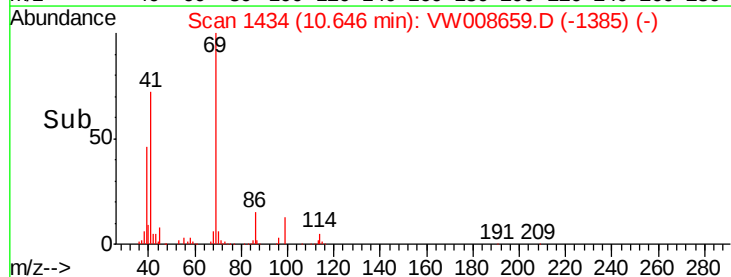
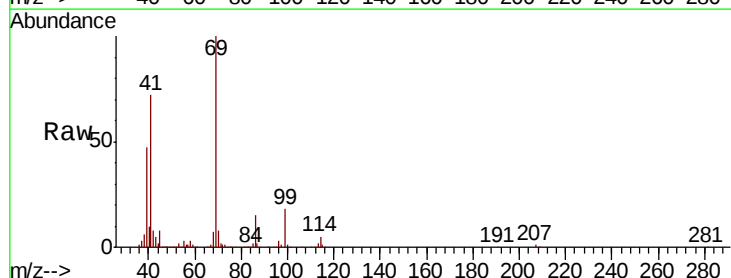
Manual Integrations
 APPROVED

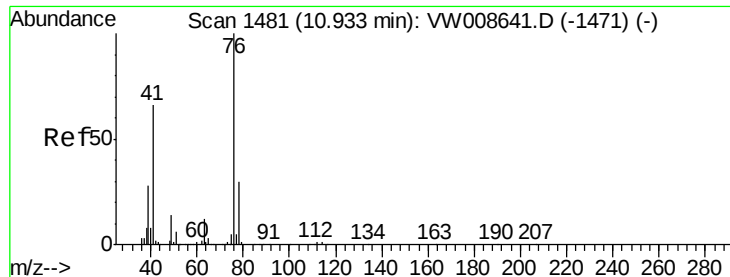
MMDadoda
 2/18/2019 12:10:47 AM



#56
 Ethyl methacrylate
 Concen: 47.560 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion:	69	Resp:	195658
Ion	Ratio	Lower	Upper
69	100		
41	73.9	59.0	88.4
39	42.9	34.4	51.6





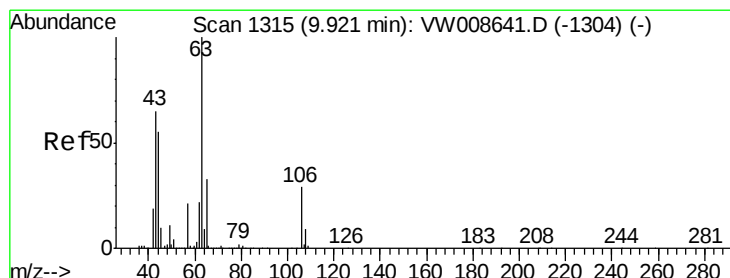
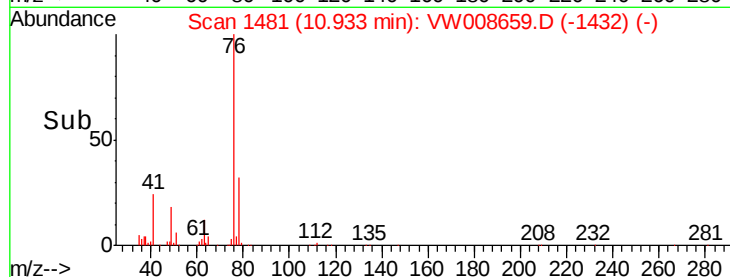
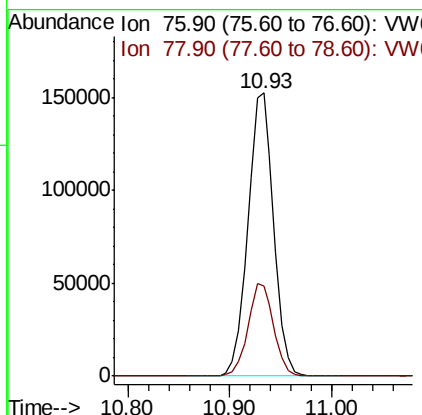
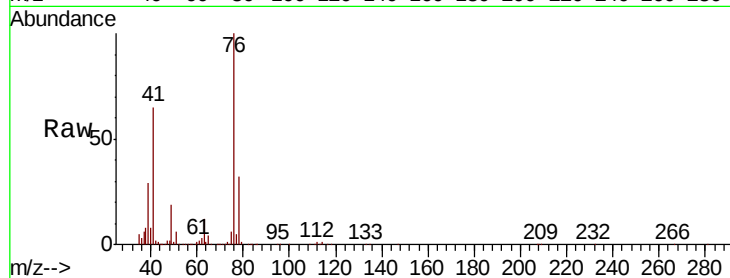
#57
 1,3-Dichloropropane
 Concen: 48.550 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.4	38.0

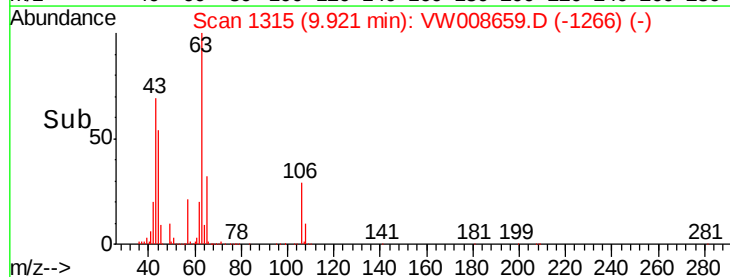
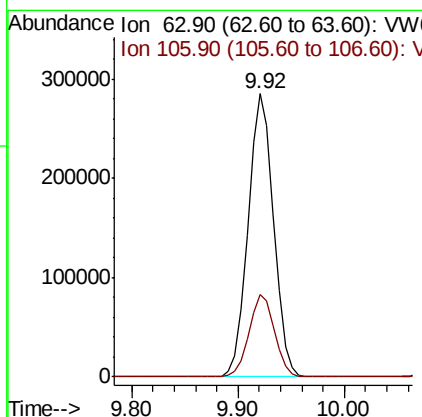
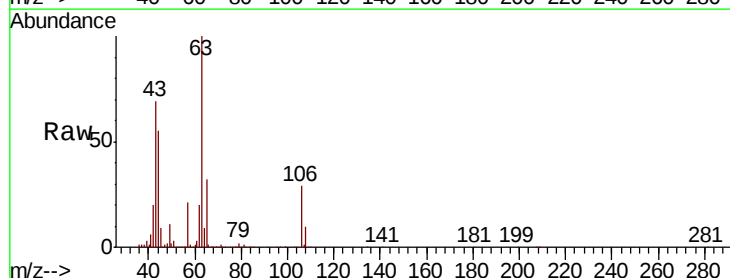
Manual Integrations
 APPROVED

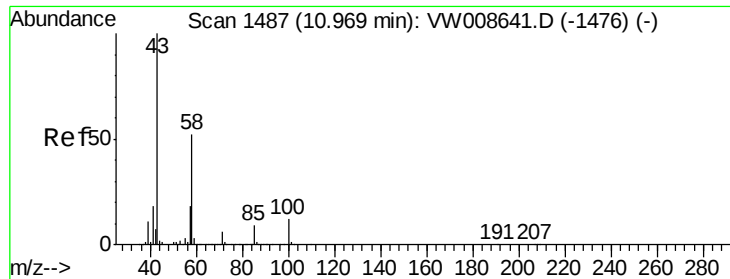
MMDadoda
 2/18/2019 12:10:47 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 242.673 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.4	35.2





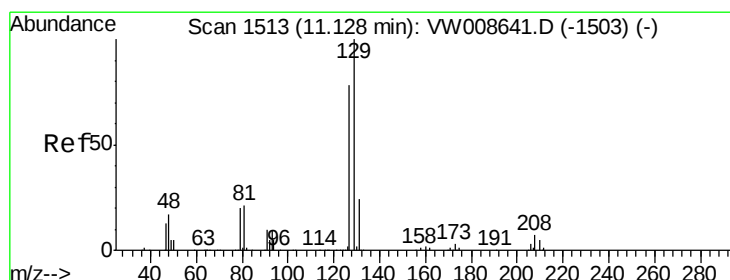
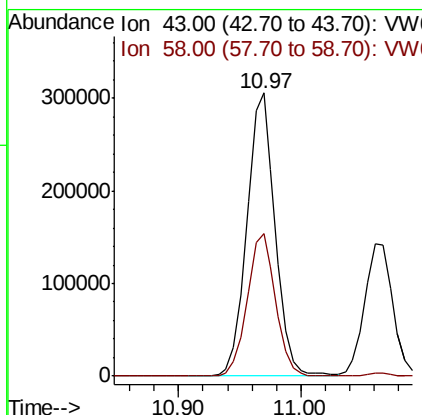
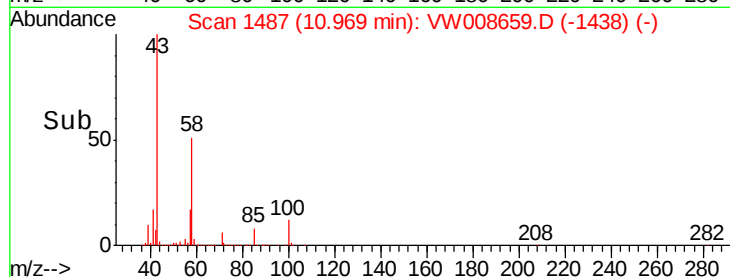
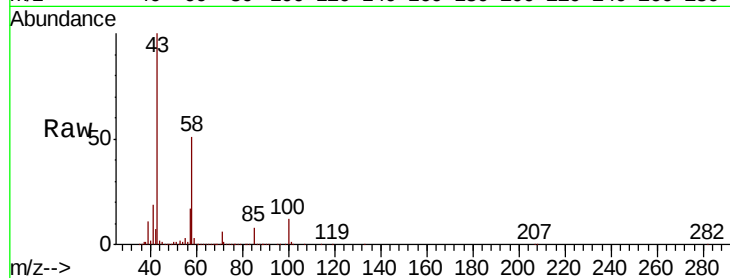
#59
2-Hexanone
Concen: 232.708 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.4	25.6	76.6

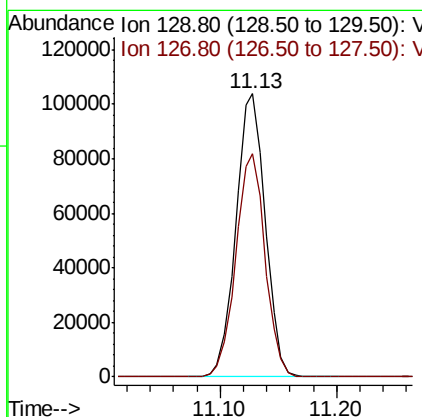
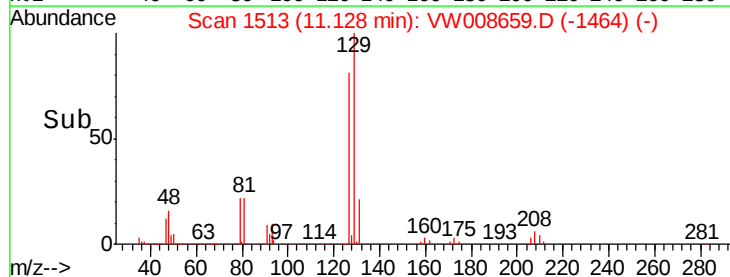
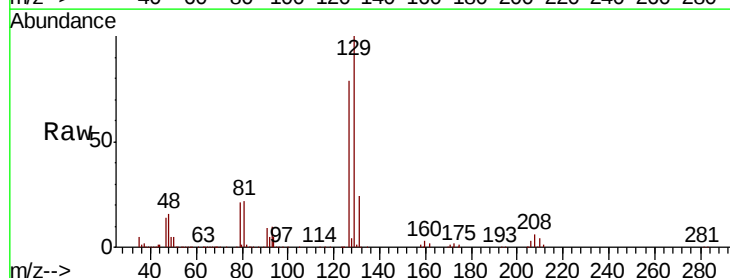
Manual Integrations
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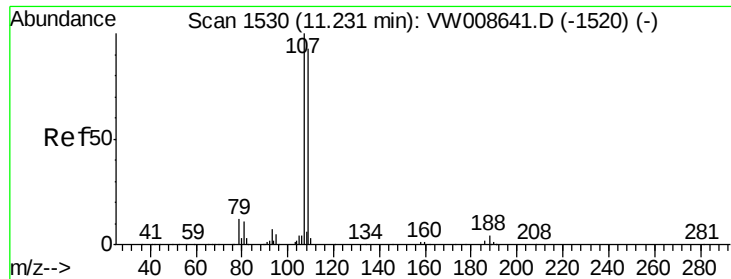
MMDadoda
2/18/2019 12:10:47 AM



#60
Dibromochloromethane
Concen: 49.125 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.5	115.3





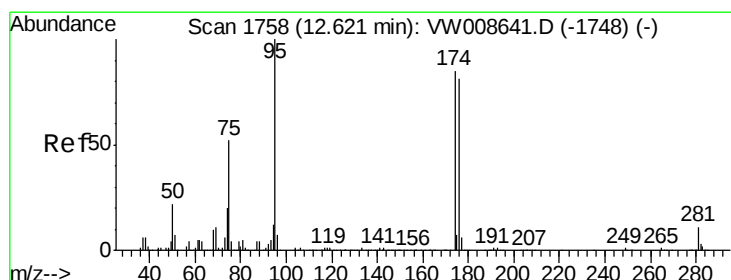
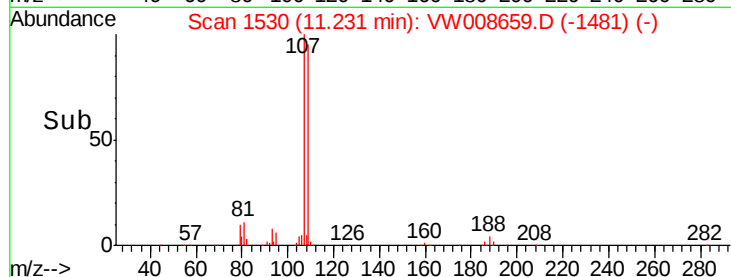
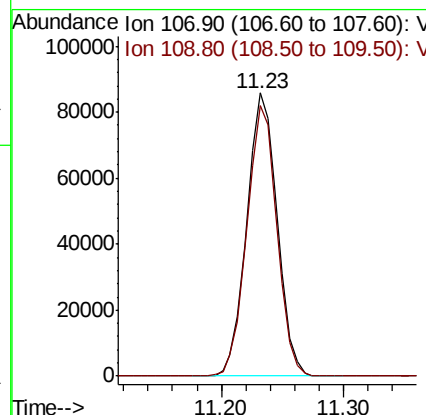
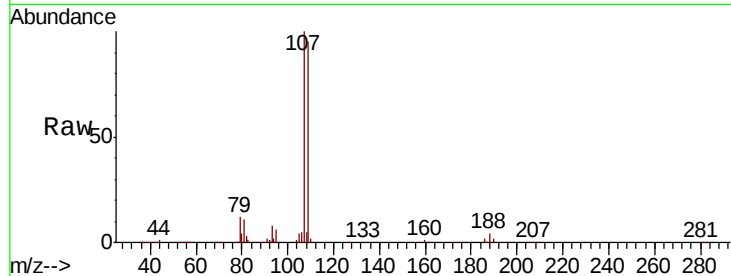
#61
 1,2-Dibromoethane
 Concen: 48.579 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	148188		
109	94.3	74.8	112.2	

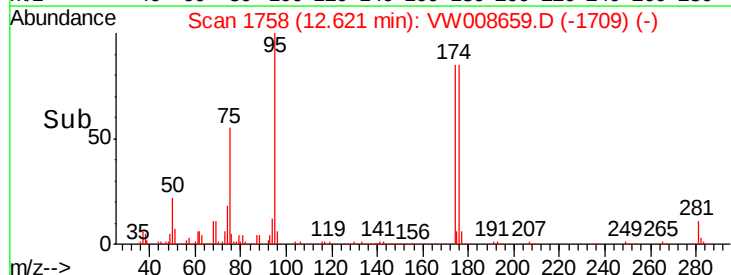
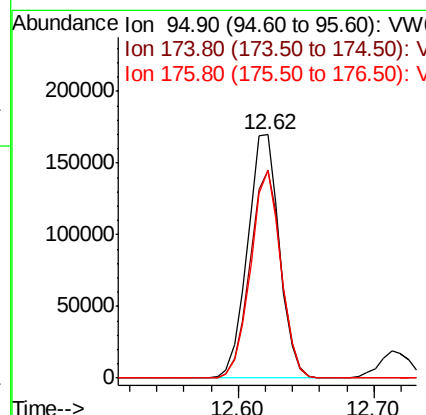
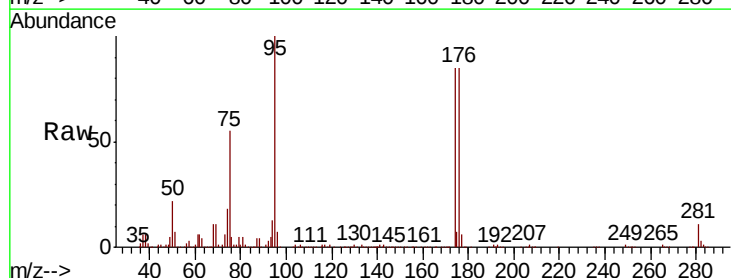
Manual Integrations
 APPROVED

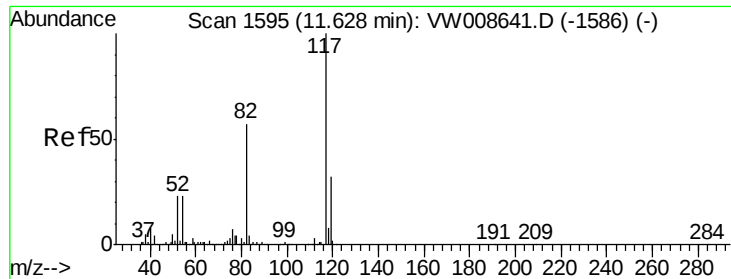
MMDadoda
 2/18/2019 12:10:47 AM



#62
 4-Bromofluorobenzene
 Concen: 51.051 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	277831		
174	83.4	0.0	163.2	
176	80.9	0.0	158.0	





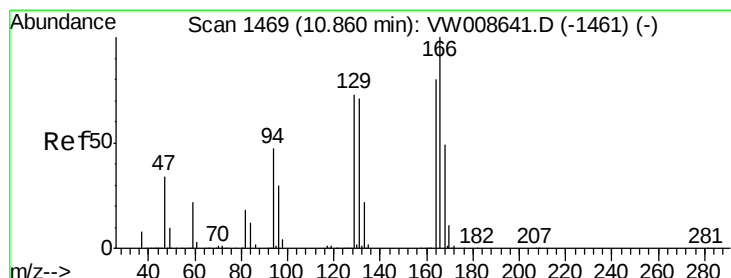
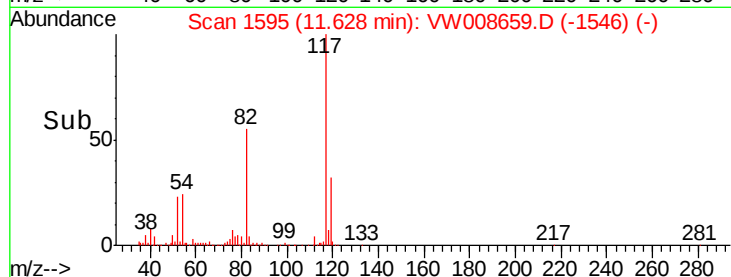
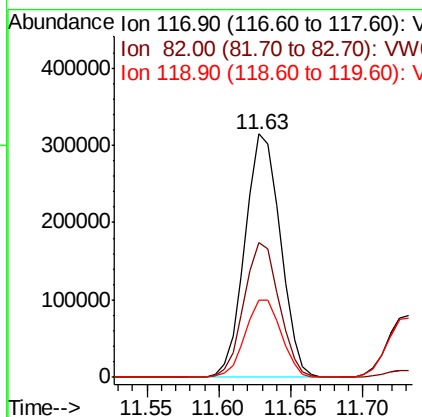
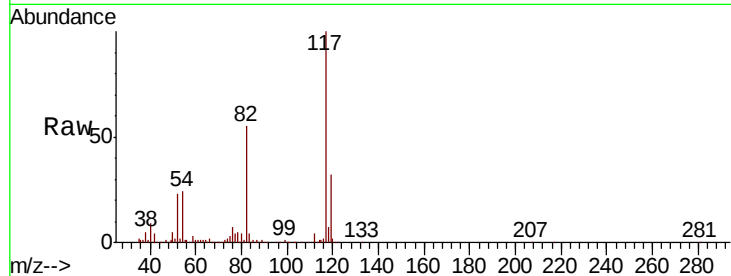
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	536945		
82	55.1	45.6	68.4	
119	31.8	25.7	38.5	

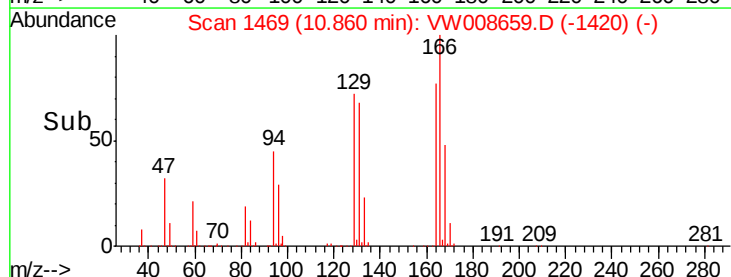
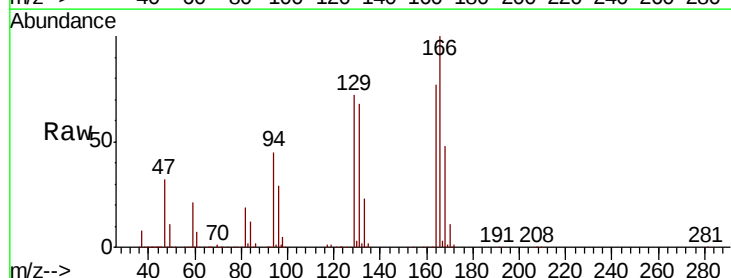
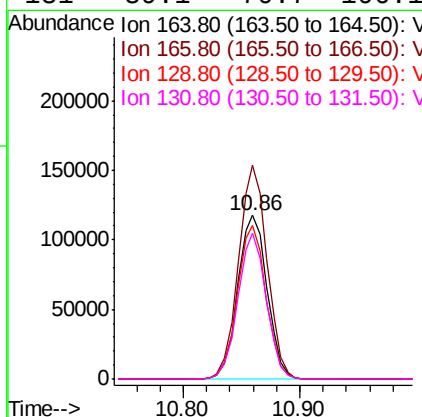
Manual Integrations
APPROVED

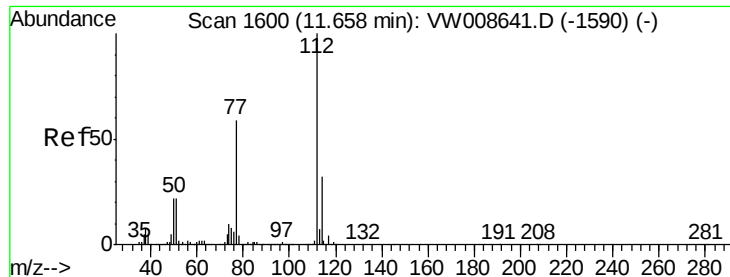
MMDadoda
2/18/2019 12:10:47 AM



#64
Tetrachloroethene
Concen: 51.536 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	205778		
166	130.4	100.2	150.2	
129	93.7	73.6	110.4	
131	89.1	70.7	106.1	





#65

Chlorobenzene

Concen: 51.390 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 594744

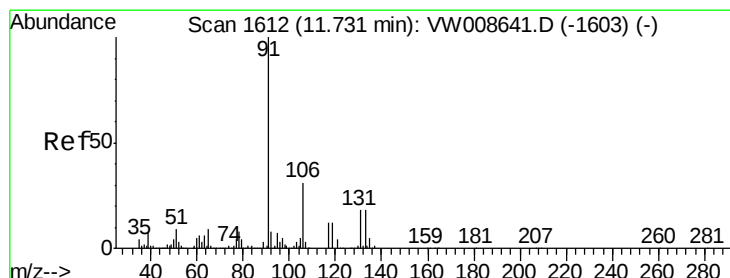
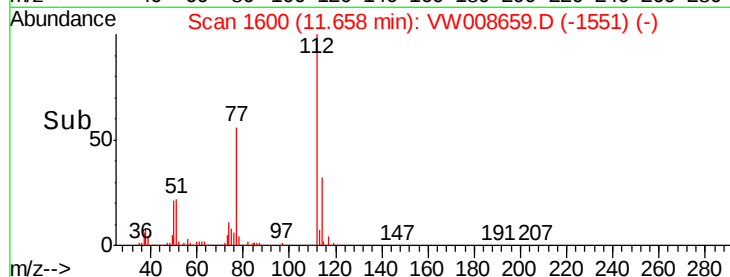
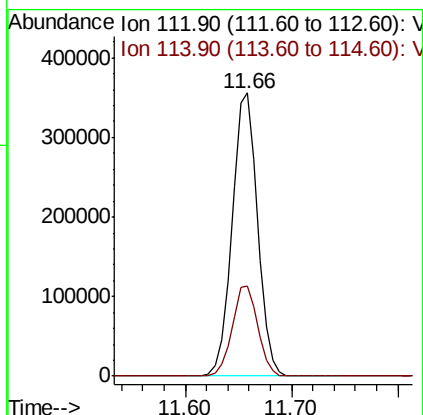
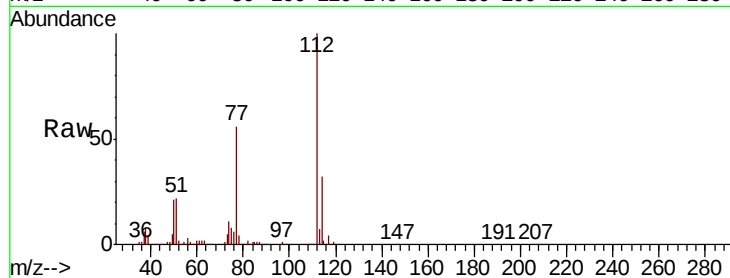
Ion Ratio Lower Upper

112 100

114 31.8 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
2/18/2019 12:10:47 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 50.729 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

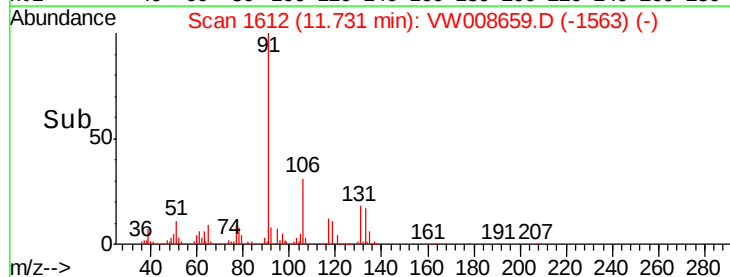
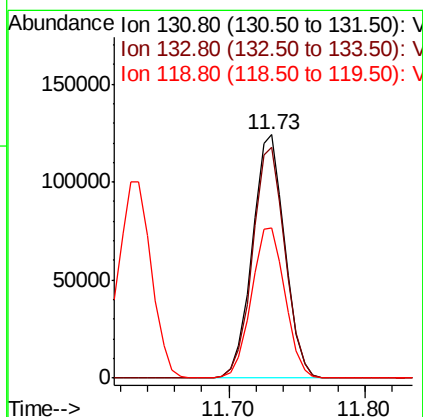
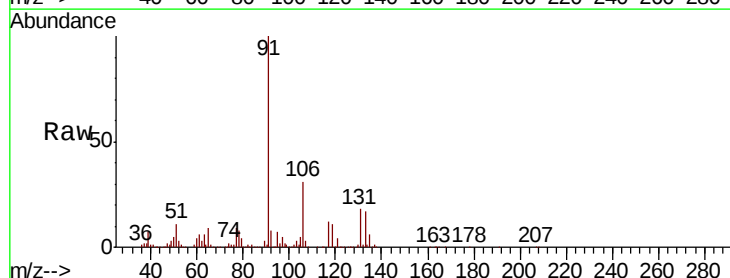
Tgt Ion:131 Resp: 207980

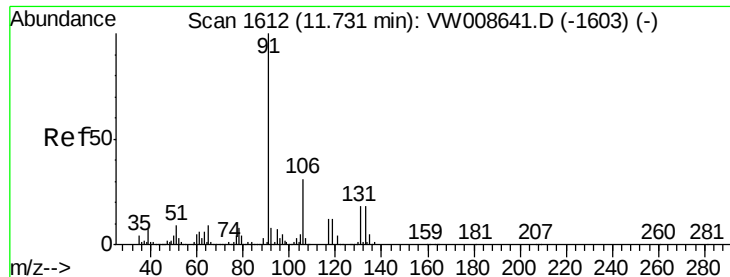
Ion Ratio Lower Upper

131 100

133 95.2 47.8 143.4

119 63.8 31.6 94.8





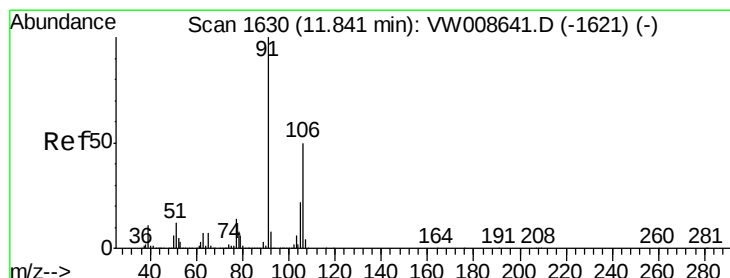
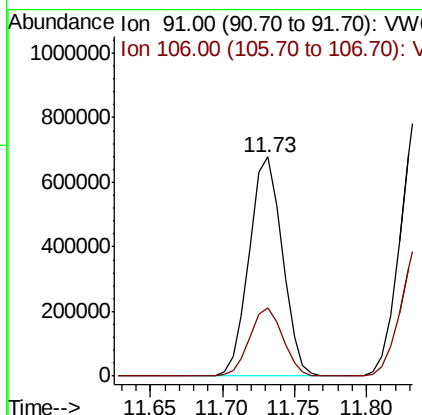
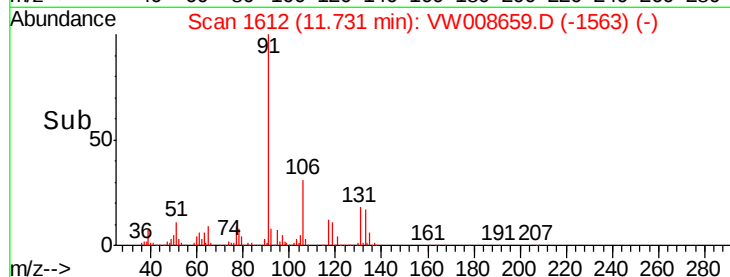
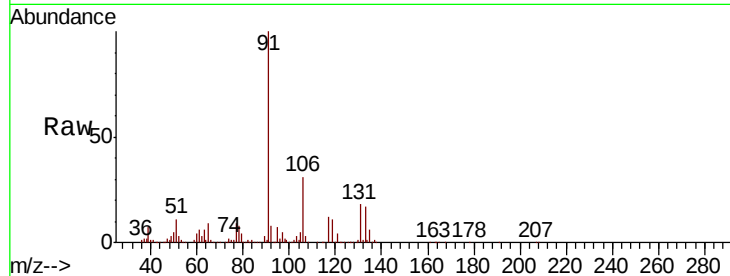
#67
Ethyl Benzene
Concen: 52.478 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1081845
Ion Ratio Lower Upper
91 100
106 31.0 24.5 36.7

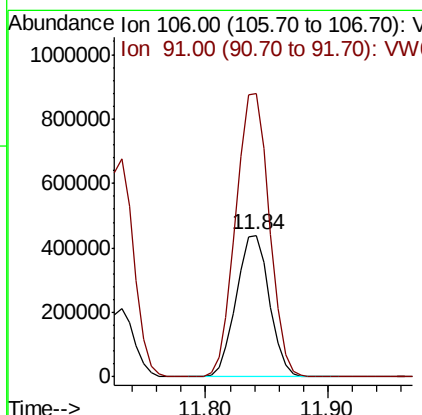
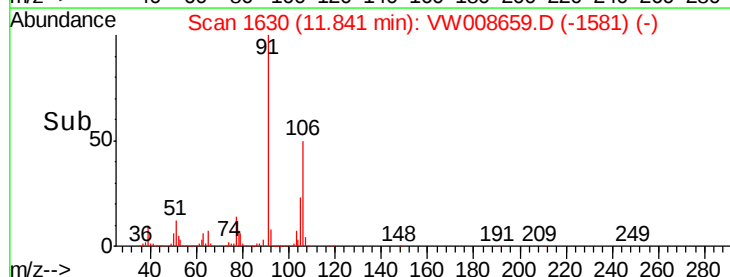
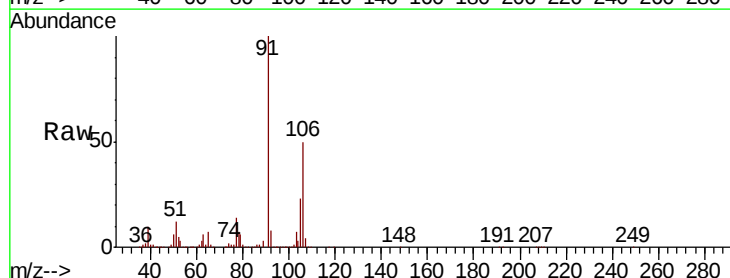
Manual Integrations
APPROVED

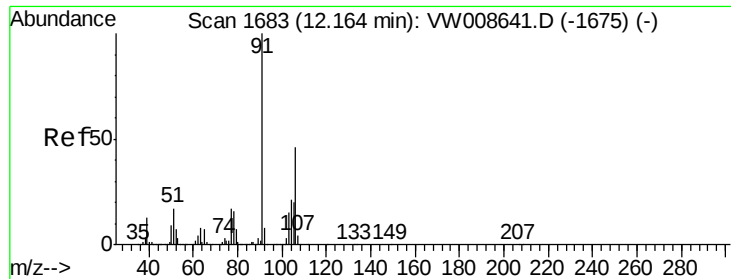
MMDadoda
2/18/2019 12:10:47 AM



#68
m/p-Xylenes
Concen: 103.260 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion: 106 Resp: 828270
Ion Ratio Lower Upper
106 100
91 202.1 161.0 241.4





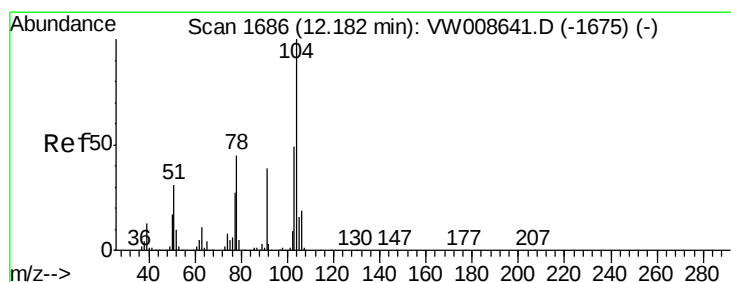
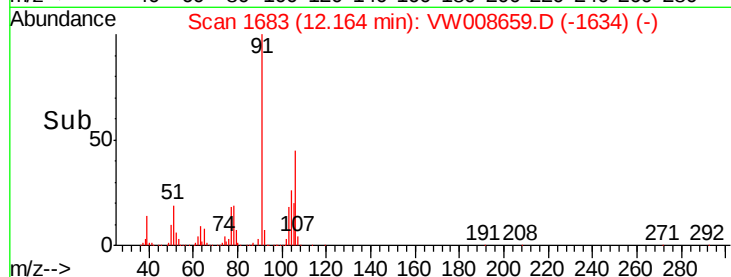
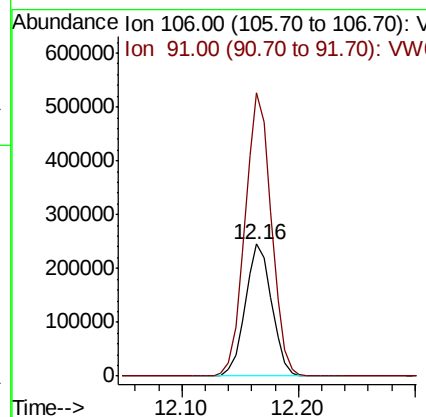
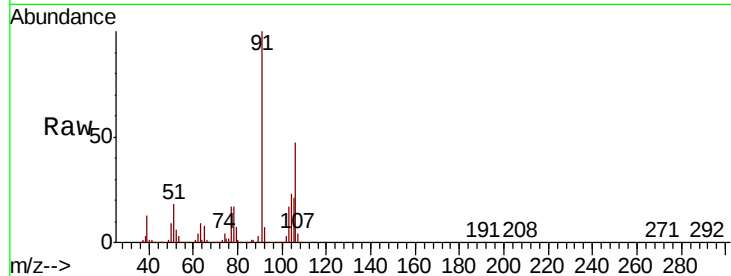
#69
o-Xylene
Concen: 51.268 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.5	106.7	320.1

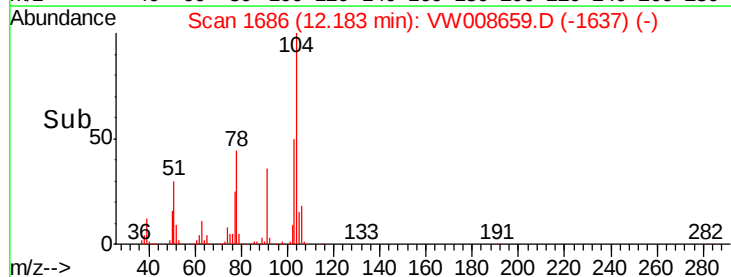
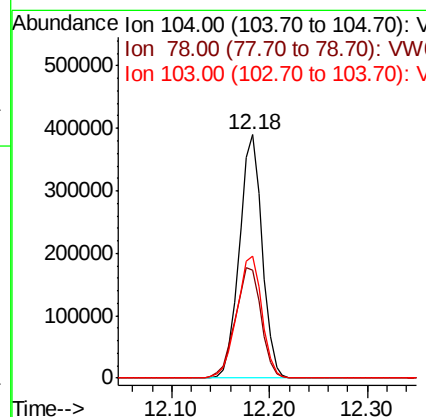
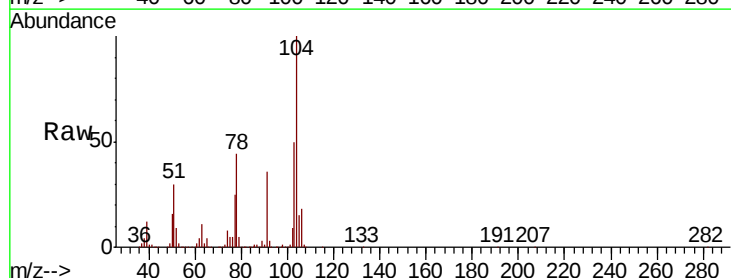
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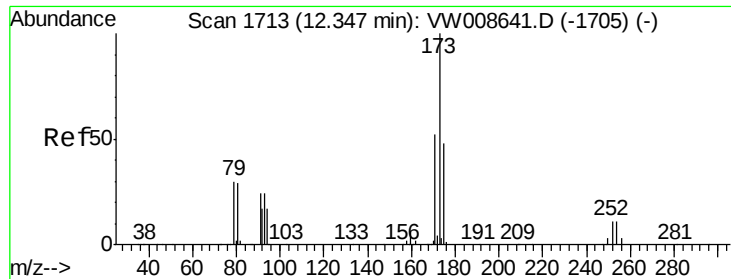
MMDadoda
2/18/2019 12:10:47 AM



#70
Styrene
Concen: 50.689 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.5	62.3
103	55.1	43.5	65.3





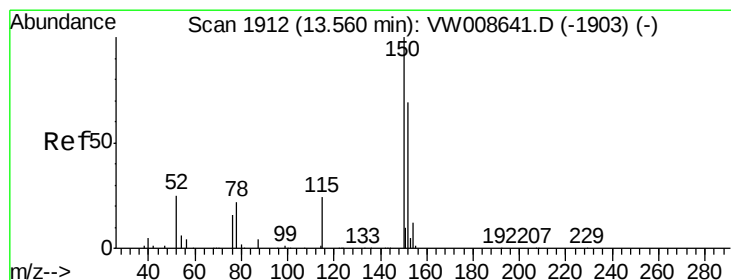
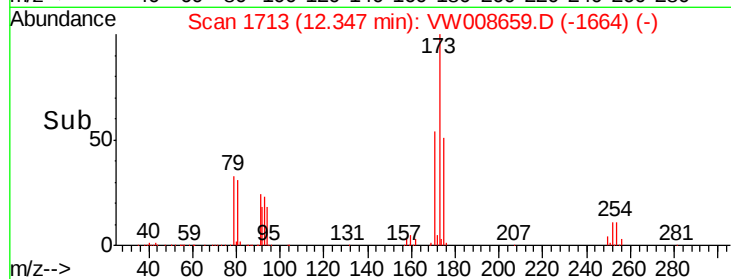
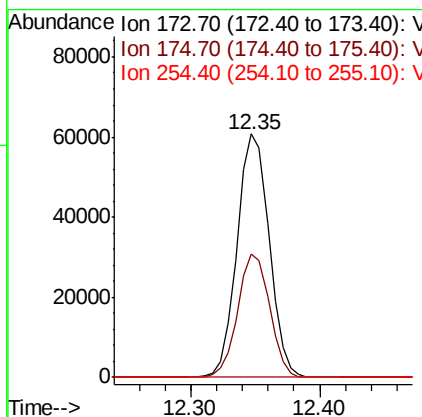
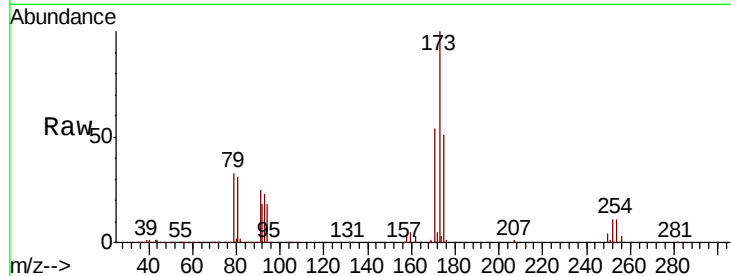
#71
Bromoform
Concen: 47.412 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.4	24.9	74.7
254	0.1	0.1	0.1

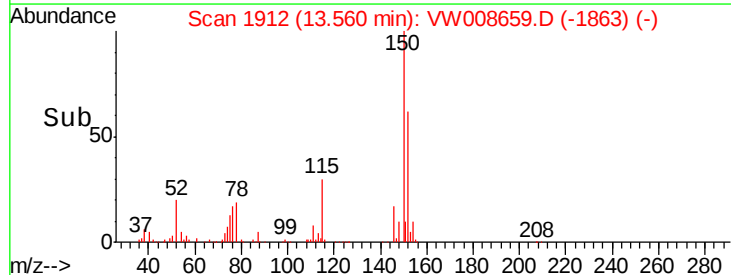
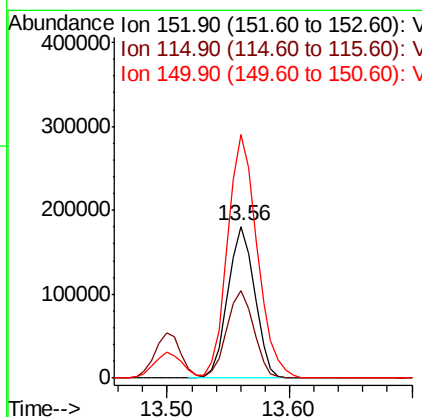
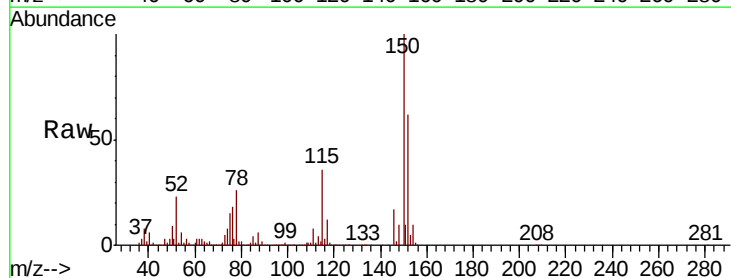
Manual Integrations
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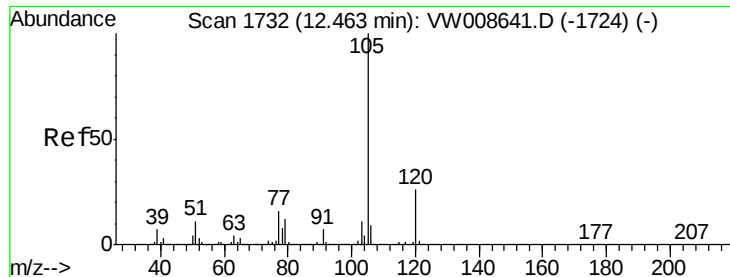
MMDadoda
2/18/2019 12:10:47 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.3	87.8
150	177.2	0.0	352.8





#73

Isopropylbenzene

Concen: 53.715 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1098150

Ion Ratio Lower Upper

105 100

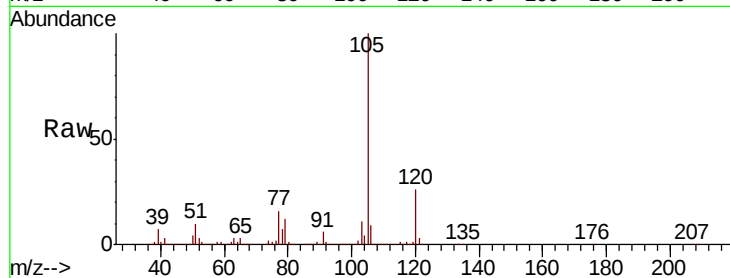
120 26.2 13.2 39.6

Manual Integrations

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2/18/2019 12:10:47 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

600000

400000

200000

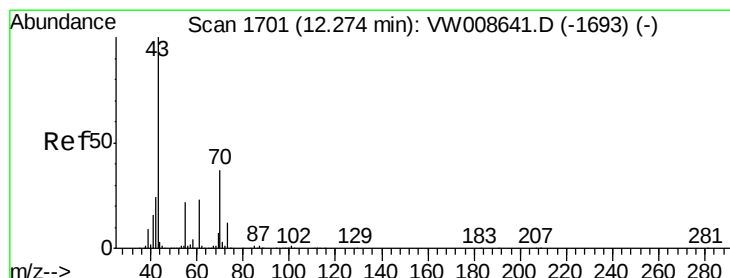
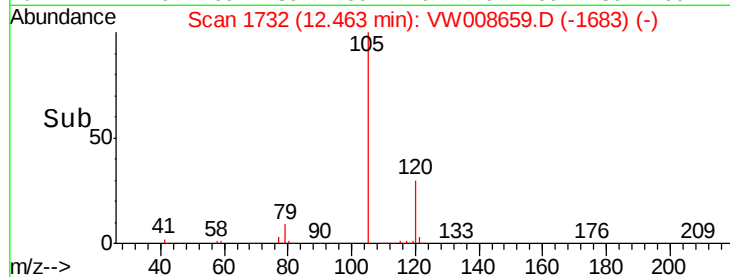
0

12.46

12.40

12.50

Time-->



#74

N-ethyl acetate

Concen: 47.215 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion: 43 Resp: 261027

Ion Ratio Lower Upper

43 100

70 38.9 30.5 45.7

55 22.4 17.6 26.4

61 22.7 17.9 26.9

Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

250000

200000

150000

100000

50000

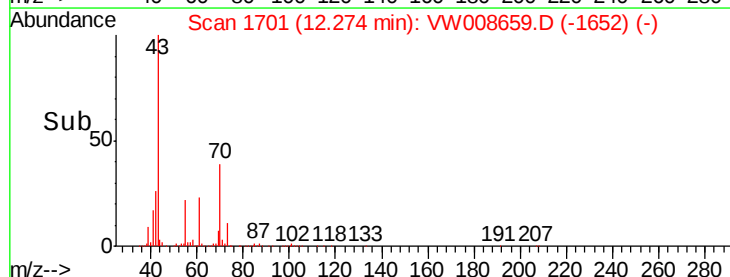
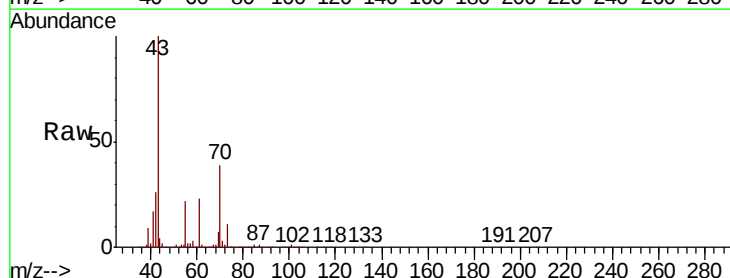
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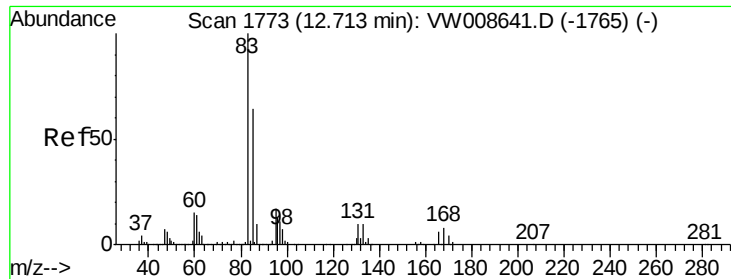
12.27

12.20

12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 49.358 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

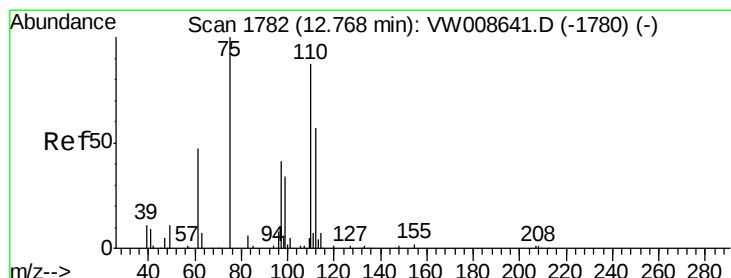
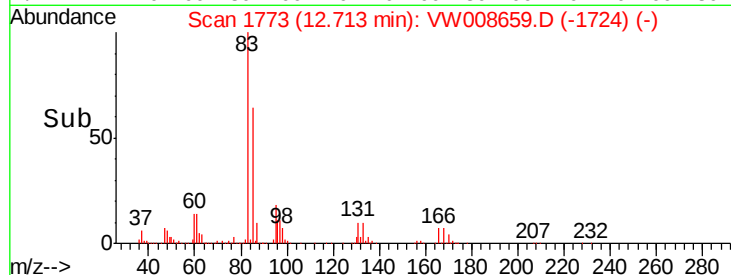
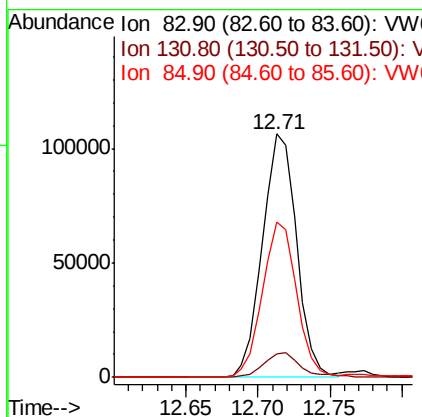
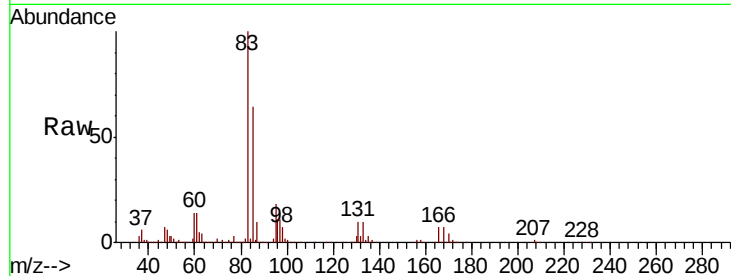
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	175566
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.5	16.7
85	63.6	31.8	95.3

Manual Integrations
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2/18/2019 12:10:47 AM



#76

1,2,3-Trichloropropane

Concen: 45.197 ug/l m

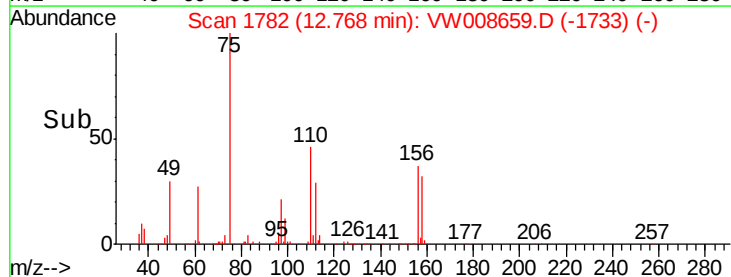
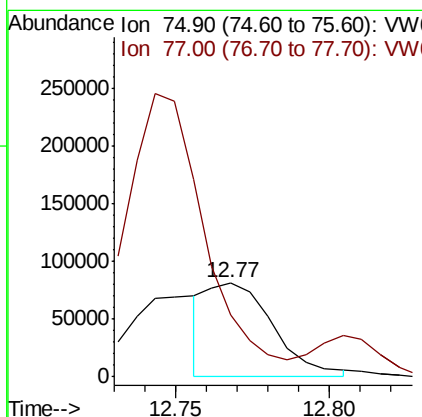
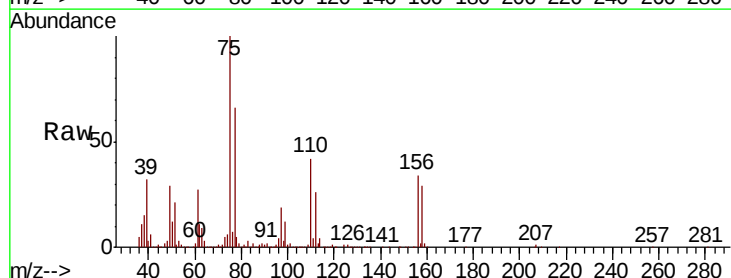
RT: 12.77 min Scan# 1782

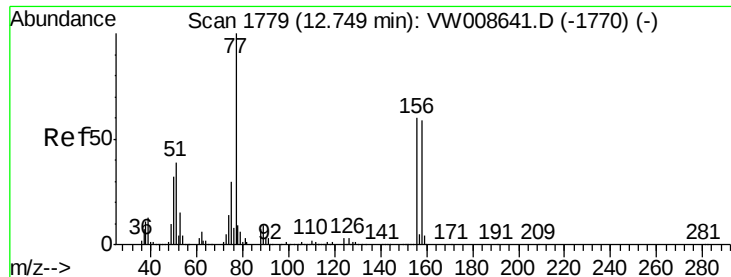
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	75	Resp:	122492
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 52.178 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

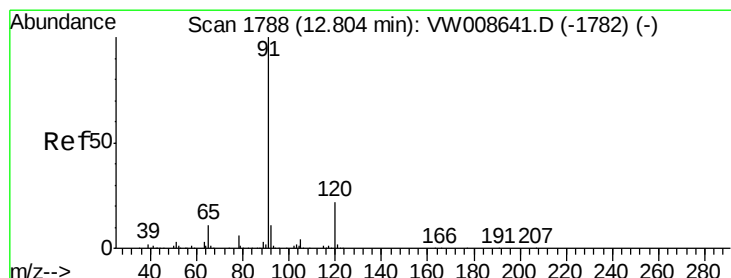
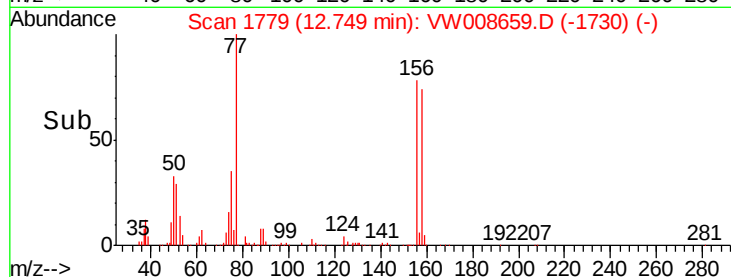
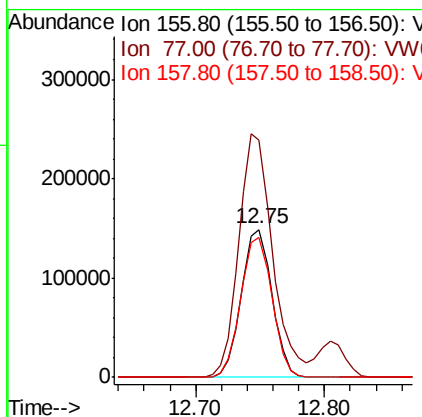
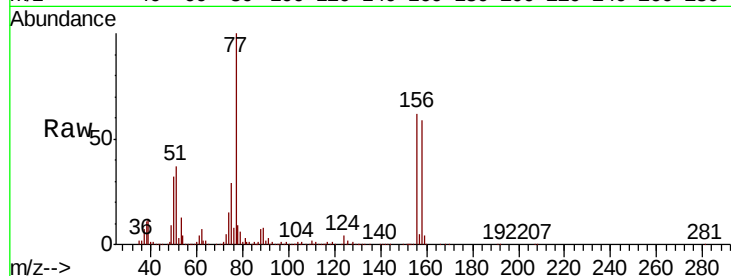
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	245208
Ion Ratio	Lower	Upper	
156	100		
77	181.4	93.2	279.5
158	96.5	48.5	145.5

Manual Integrations
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#78

n-propylbenzene

Concen: 54.583 ug/l

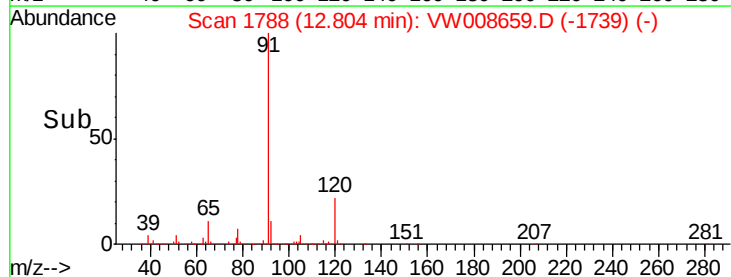
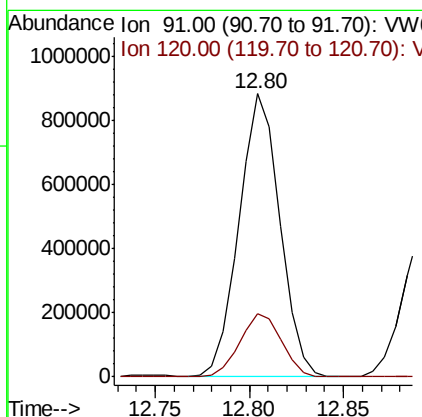
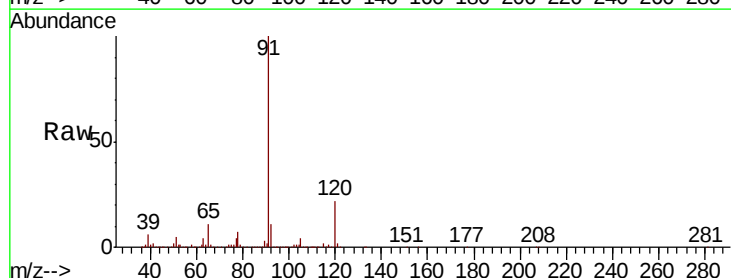
RT: 12.80 min Scan# 1788

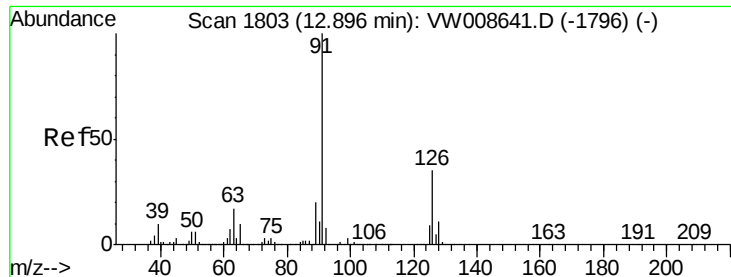
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	91	Resp:	1325892
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.4	34.2





#79

2-Chlorotoluene

Concen: 52.939 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 726786

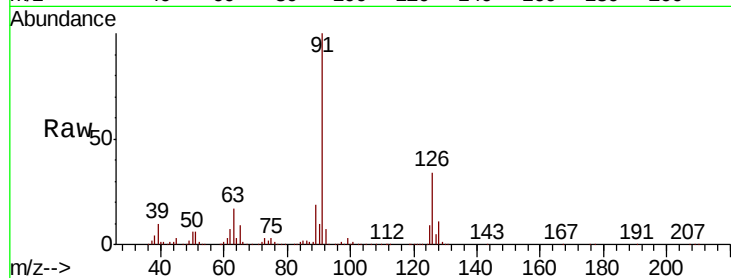
Ion Ratio Lower Upper

91 100

126 33.8 17.0 50.9

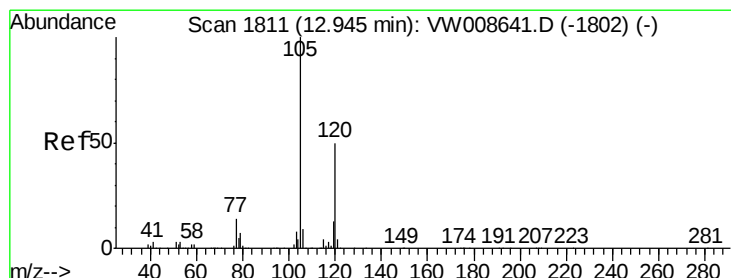
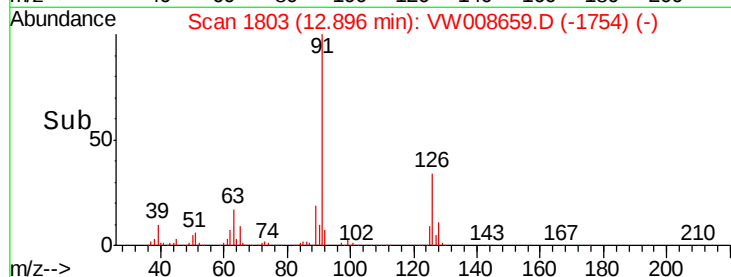
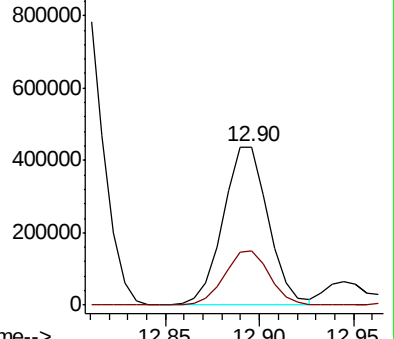
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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 53.116 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008659.D

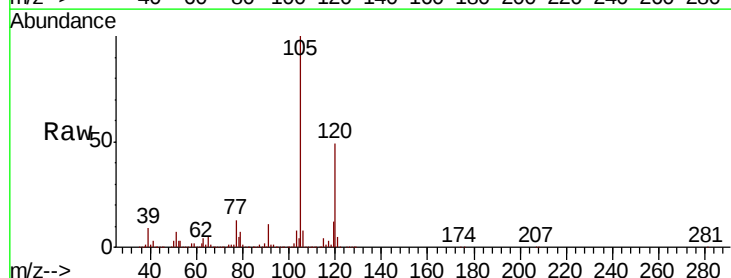
Acq: 14 Feb 2019 11:48

Tgt Ion: 105 Resp: 901959

Ion Ratio Lower Upper

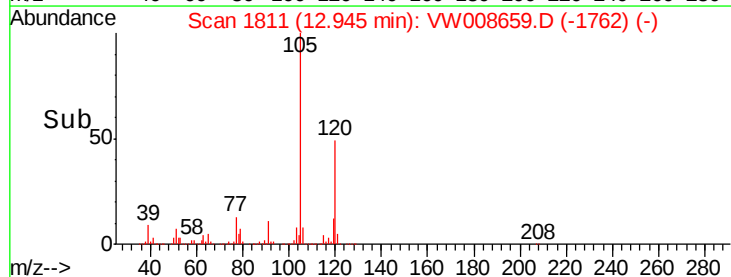
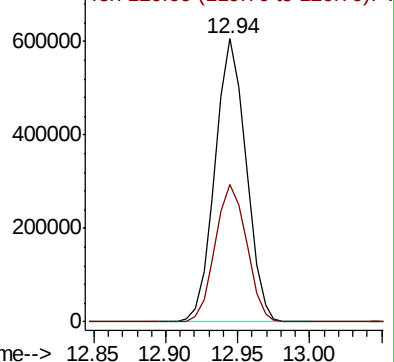
105 100

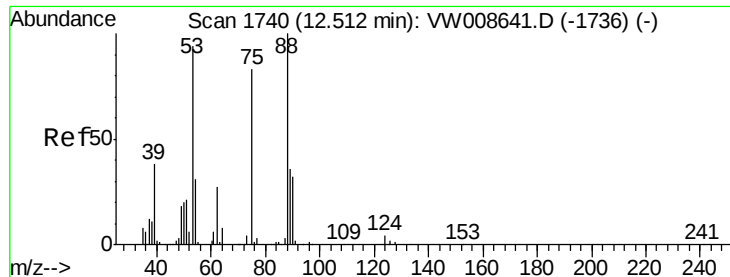
120 49.4 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 44.806 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

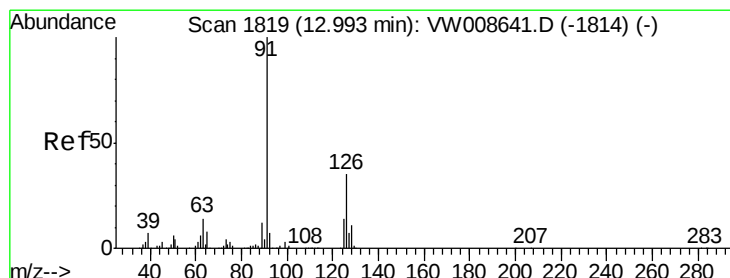
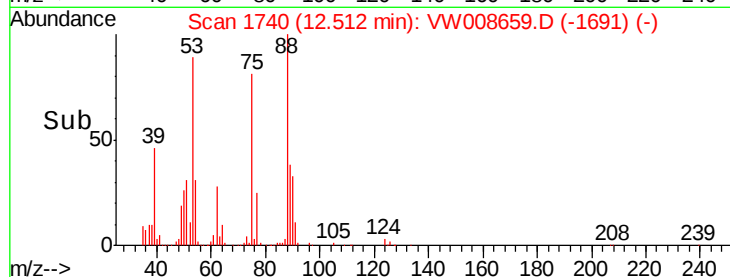
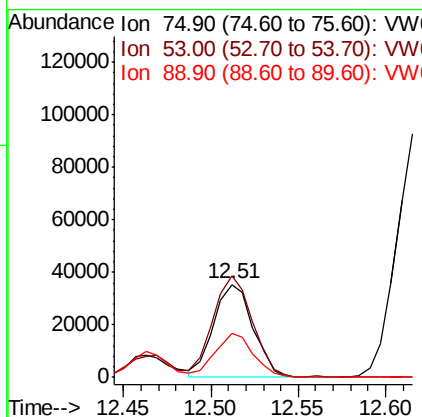
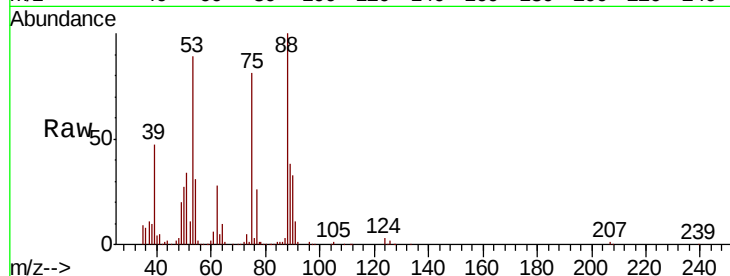
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	54737
Ion	Ratio	Lower	Upper
75	100		
53	109.0	87.4	131.0
89	46.3	37.0	55.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 52.609 ug/l

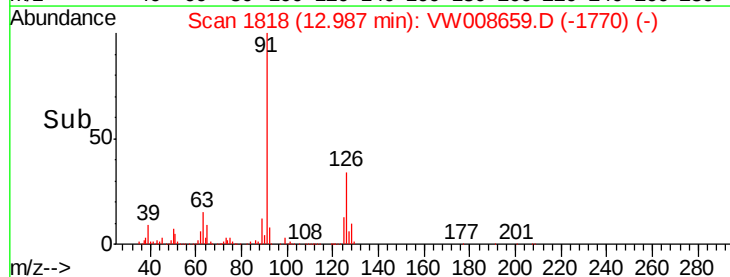
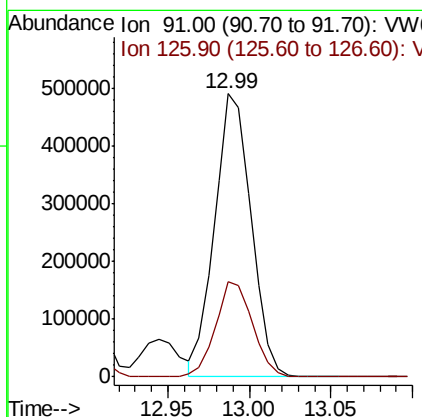
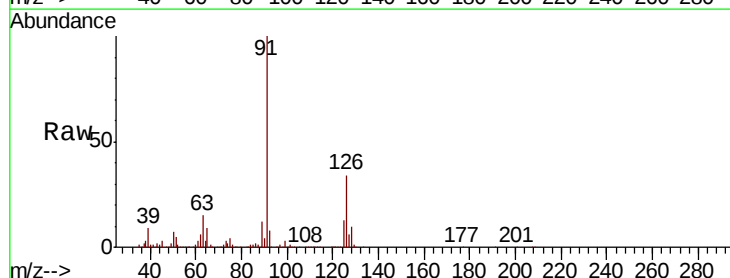
RT: 12.99 min Scan# 1818

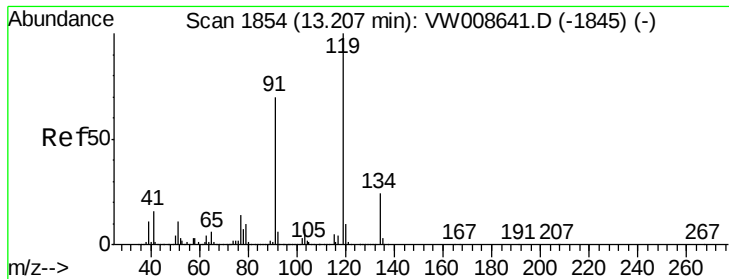
Delta R.T. -0.01 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	91	Resp:	765413
Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.9	50.7





#83

tert-Butylbenzene

Concen: 53.916 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Instrument :

MSVOA_W

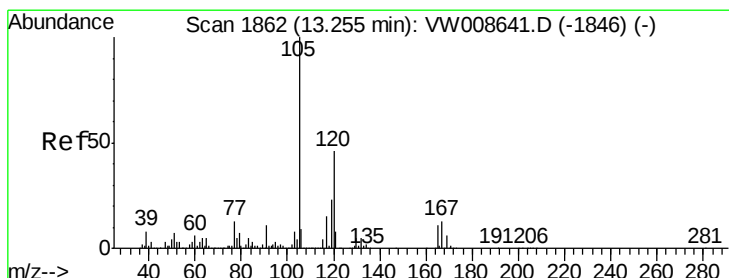
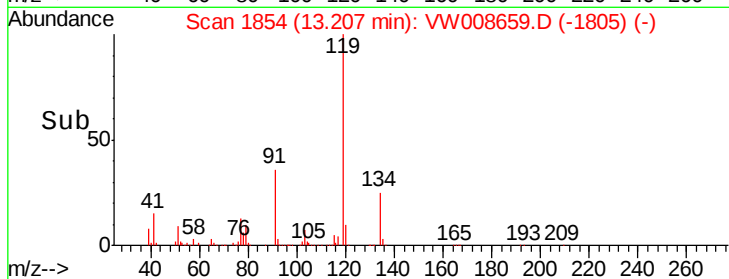
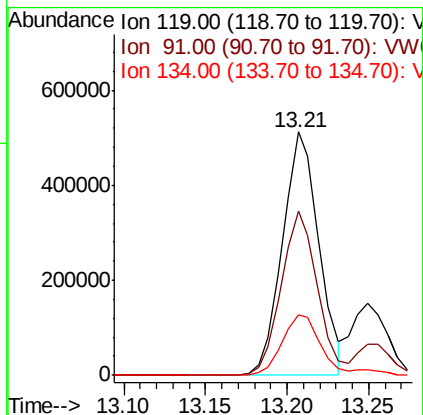
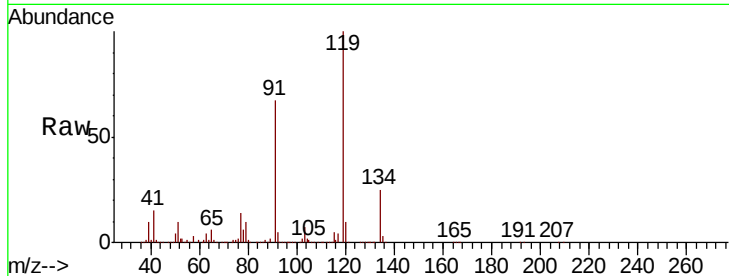
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	794996
Ion Ratio	Lower	Upper	
119	100		
91	67.5	34.0	102.0
134	27.7	13.6	40.8

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 53.019 ug/l

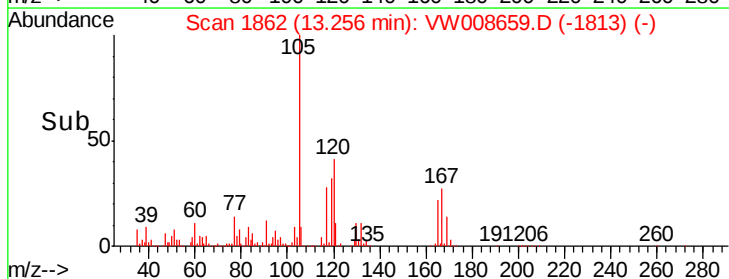
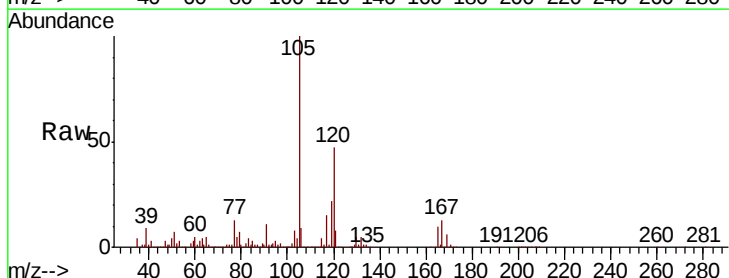
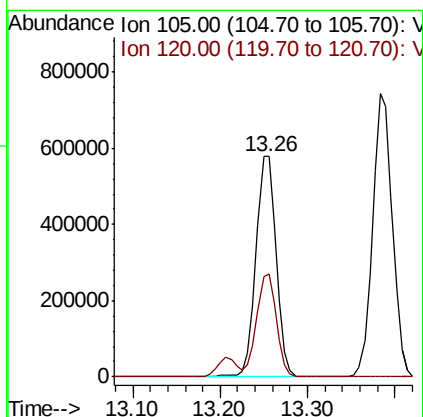
RT: 13.26 min Scan# 1862

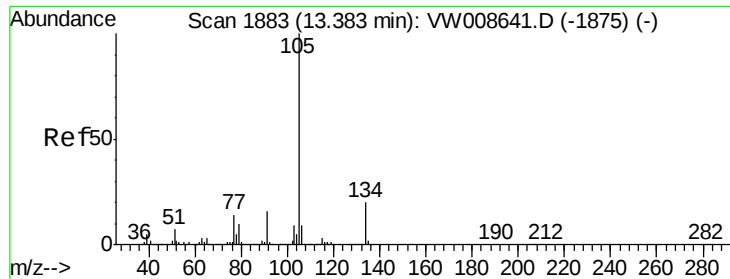
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion:	105	Resp:	925346
Ion Ratio	Lower	Upper	
105	100		
120	45.7	22.9	68.8





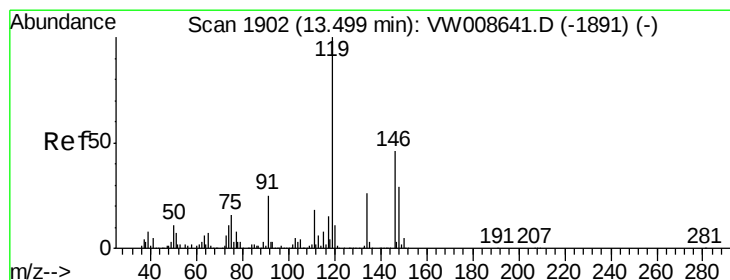
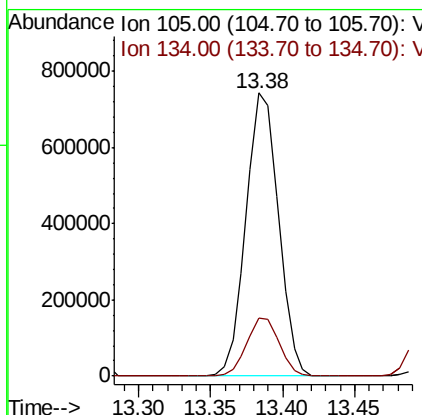
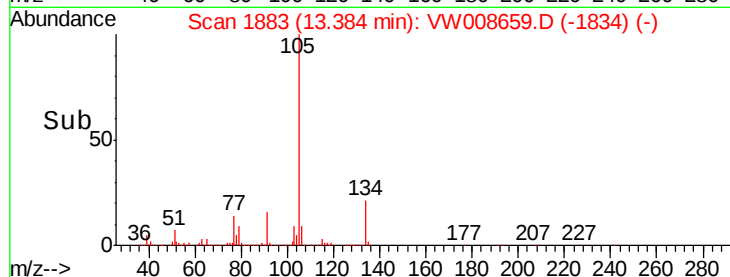
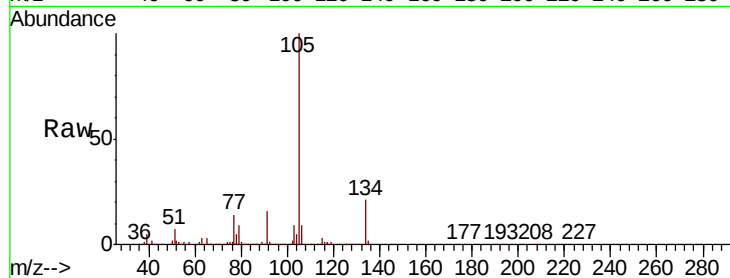
#85
 sec-Butylbenzene
 Concen: 54.111 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1161748
 Ion Ratio Lower Upper
 105 100
 134 20.5 10.3 30.8

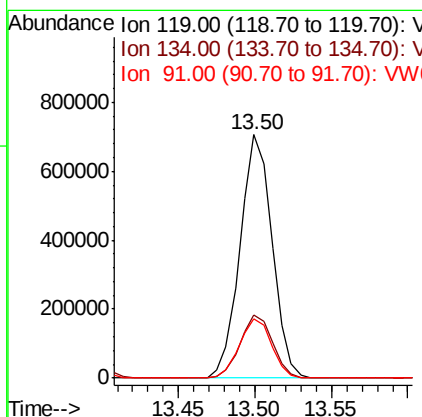
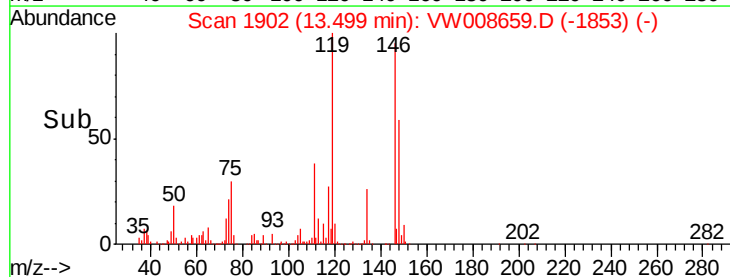
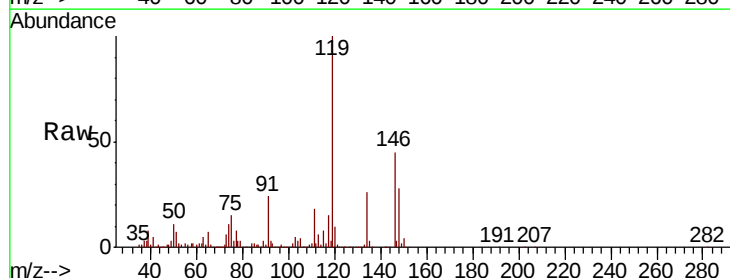
Manual Integrations
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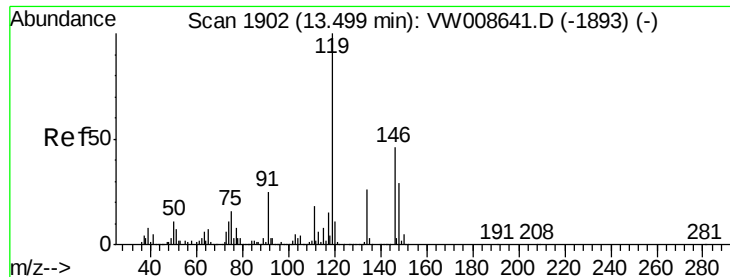
MMDadoda
 2/18/2019 12:10:47 AM



#86
 p-Isopropyltoluene
 Concen: 53.475 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion:119 Resp: 1027083
 Ion Ratio Lower Upper
 119 100
 134 26.2 13.0 39.0
 91 24.6 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 51.879 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

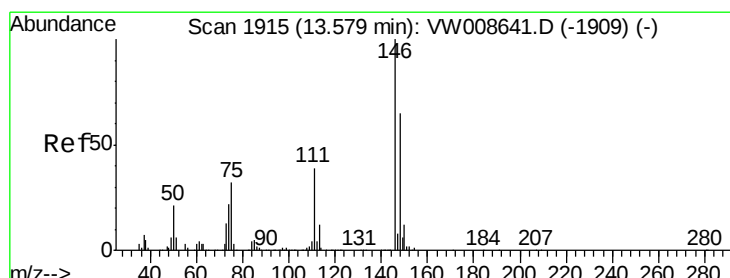
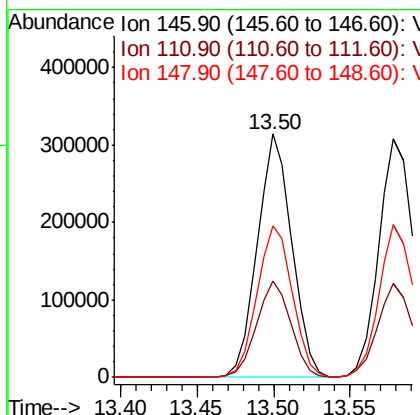
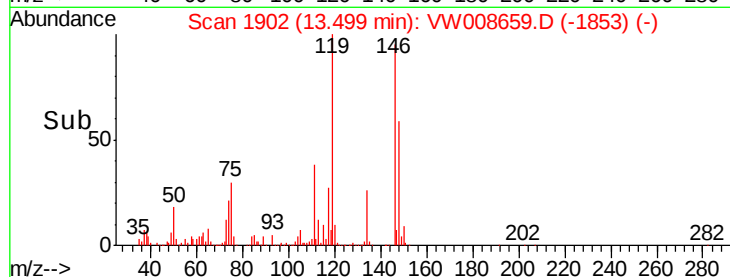
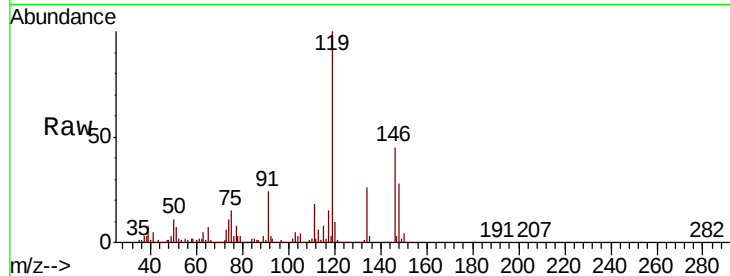
Instrument :
MSVOA_W

ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	494239		
111	39.4	19.4	58.1	
148	63.6	31.6	94.8	

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 51.835 ug/l

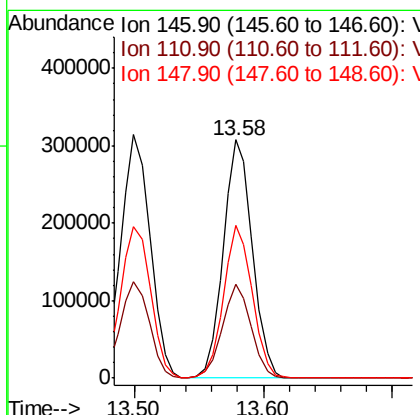
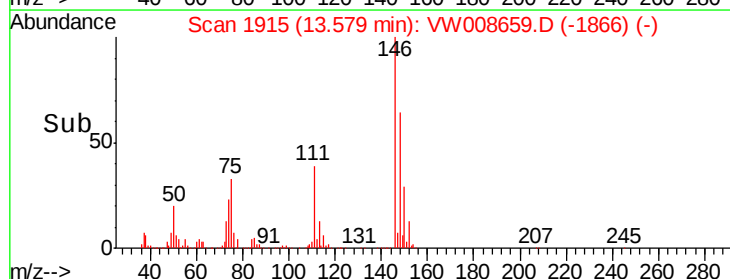
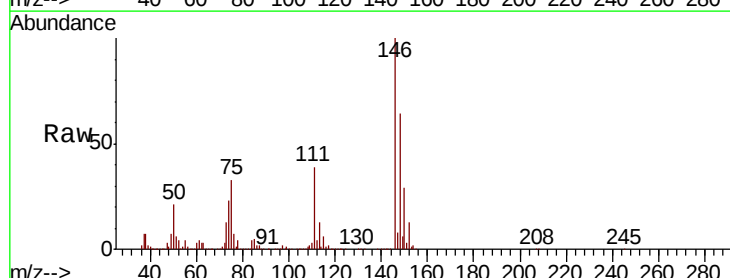
RT: 13.58 min Scan# 1915

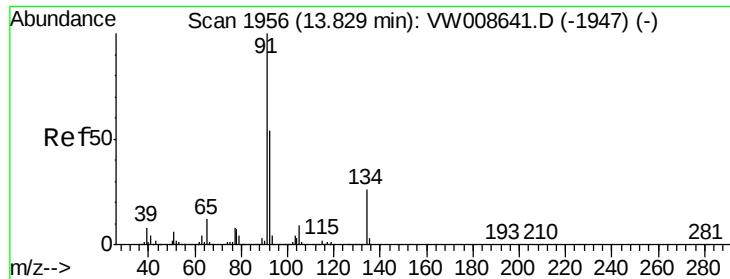
Delta R.T. 0.00 min

Lab File: VW008659.D

Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	486681		
111	39.0	19.4	58.1	
148	63.2	31.8	95.4	





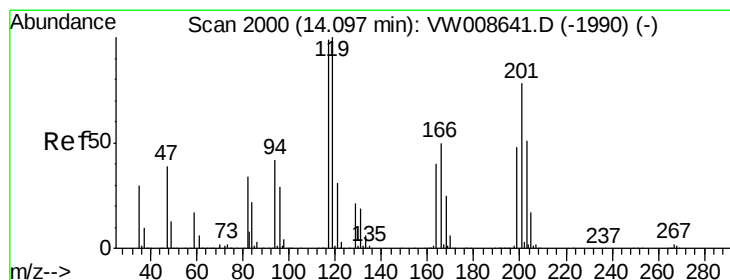
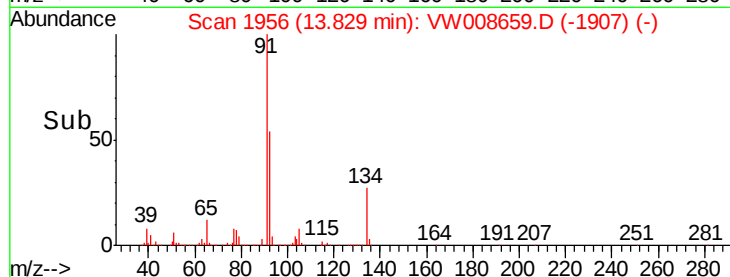
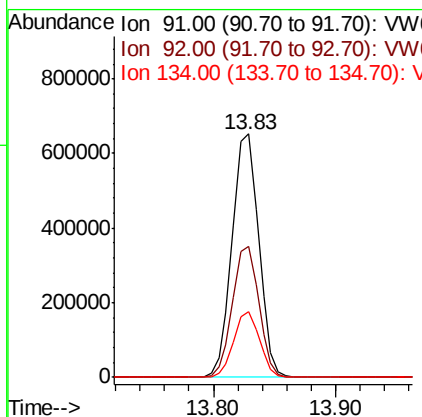
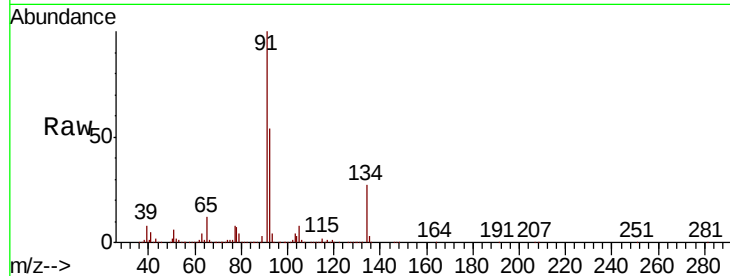
#89
n-Butylbenzene
Concen: 53.791 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.8	80.4
134	26.4	13.0	39.0

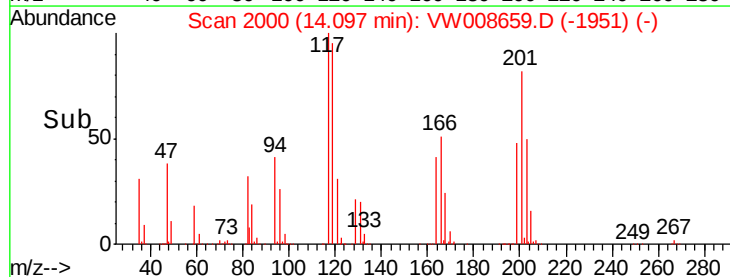
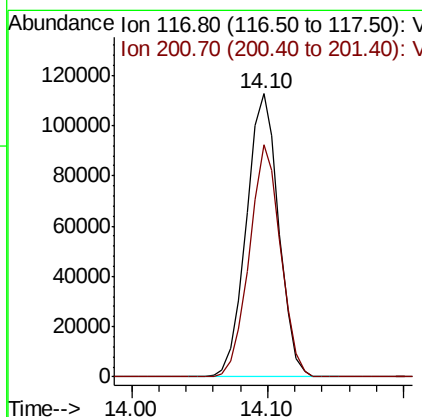
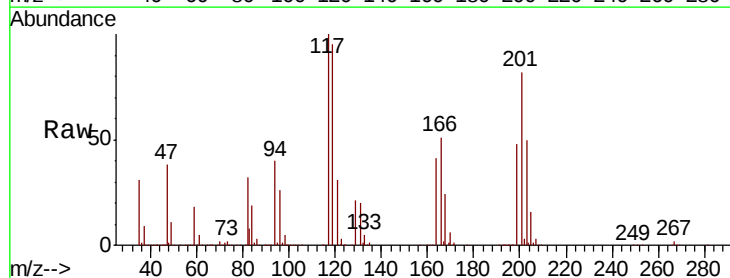
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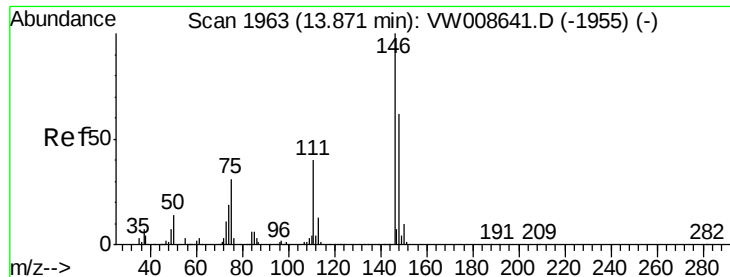
MMDadoda
2/18/2019 12:10:47 AM



#90
Hexachloroethane
Concen: 55.793 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.5	38.7	116.1





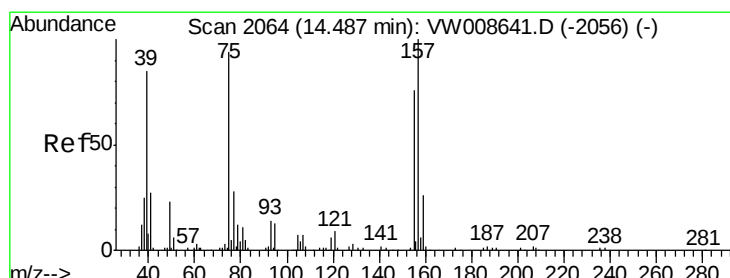
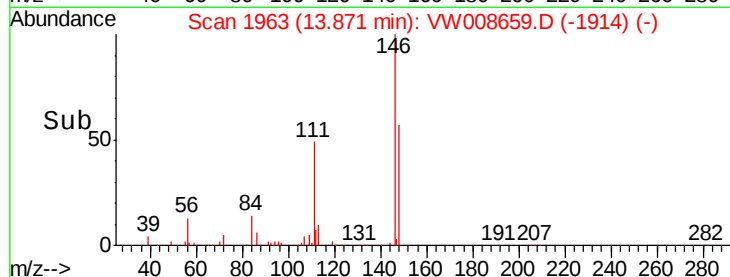
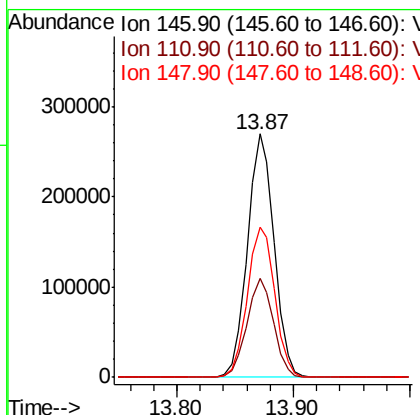
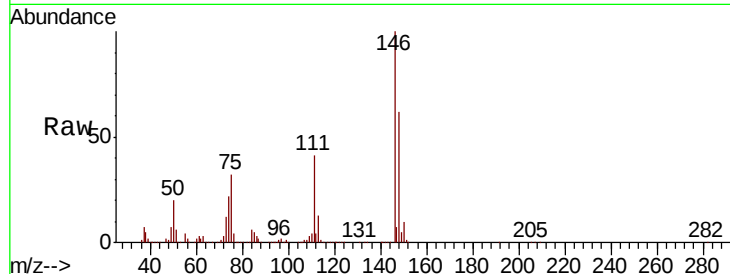
#91
 1,2-Dichlorobenzene
 Concen: 50.936 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	429925		
111	40.6		20.5	61.5
148	63.6		31.6	94.8

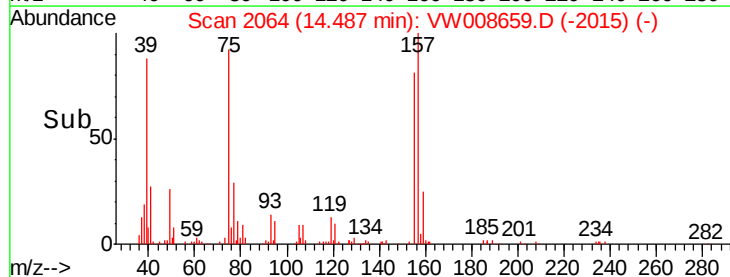
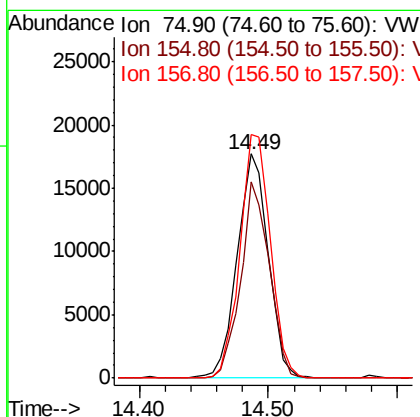
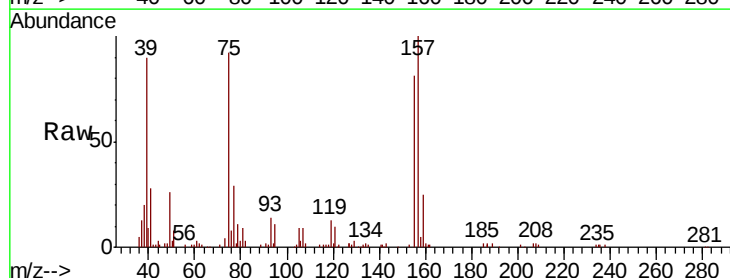
Manual Integrations
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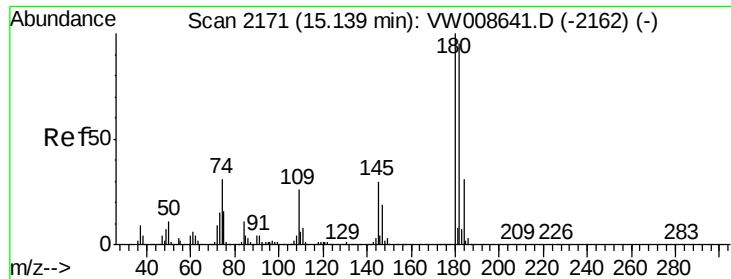
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.787 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	29538		
155	80.4		41.8	125.4
157	106.1		53.8	161.4





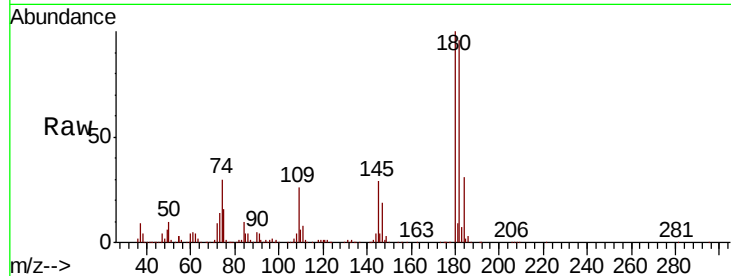
#93
 1,2,4-Trichlorobenzene
 Concen: 51.319 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.3	47.5	142.5	
145	29.9	15.1	45.3	

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 12:10:47 AM

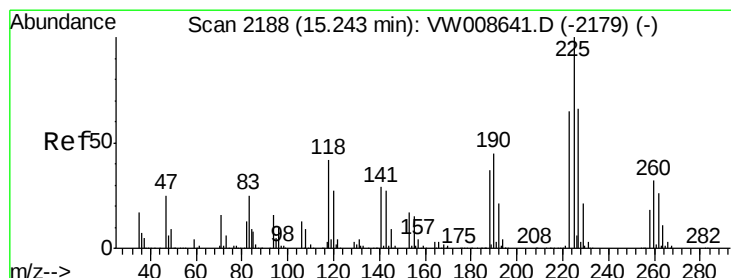
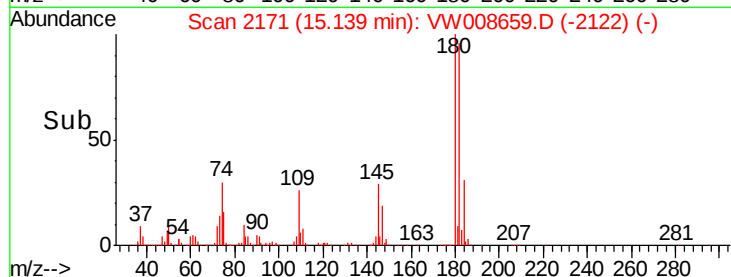
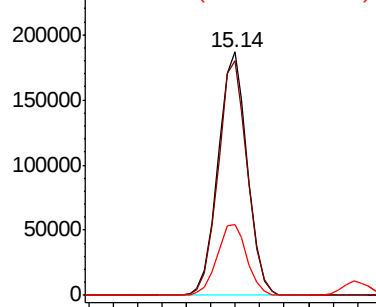


Abundance

Ion 179.80 (179.50 to 180.50): V

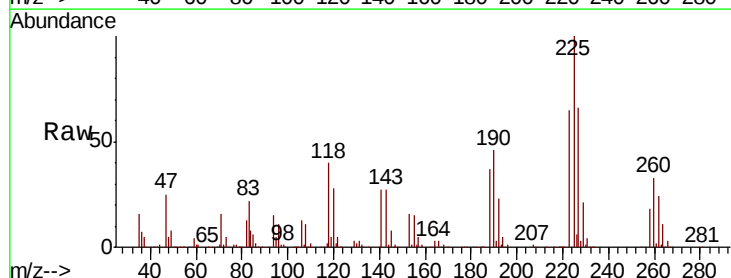
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 54.750 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. 0.00 min
 Lab File: VW008659.D
 Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.0	31.4	94.3	
227	62.9	32.4	97.0	

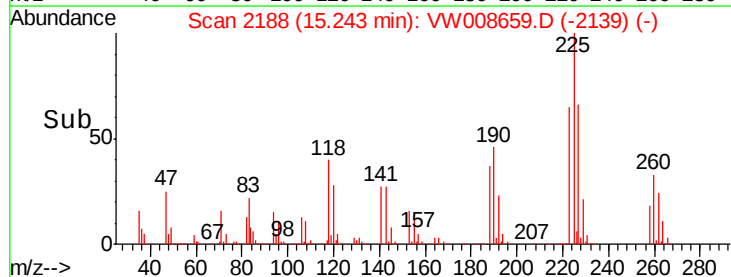
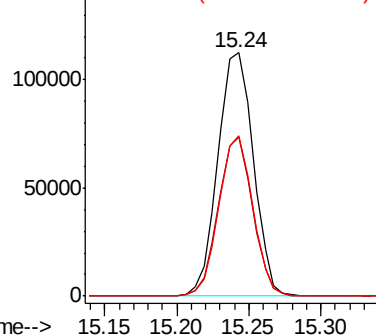


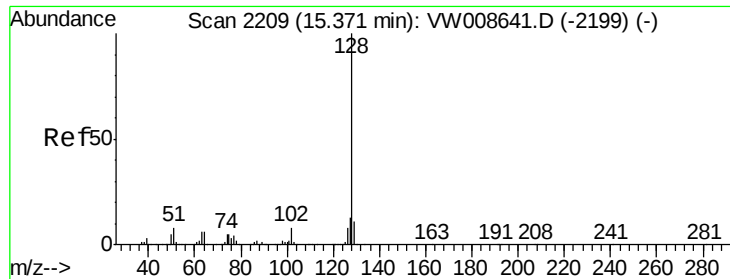
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





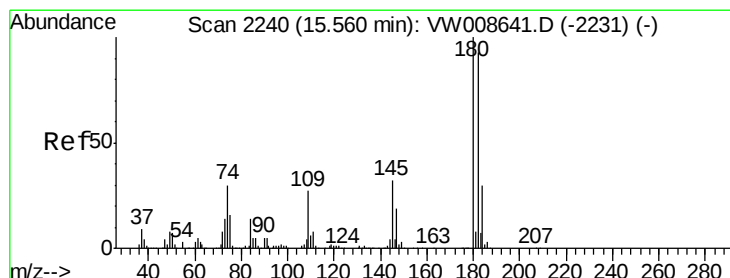
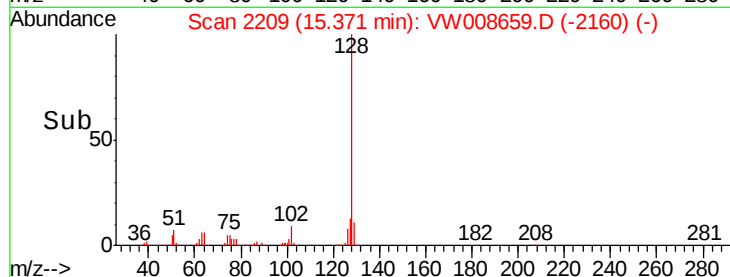
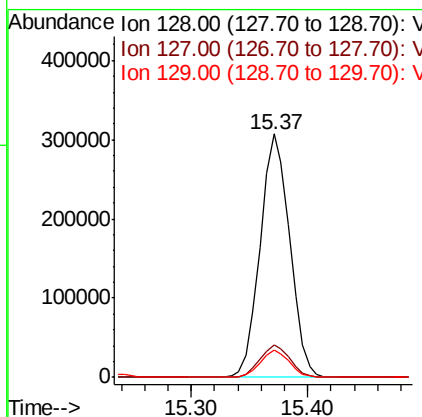
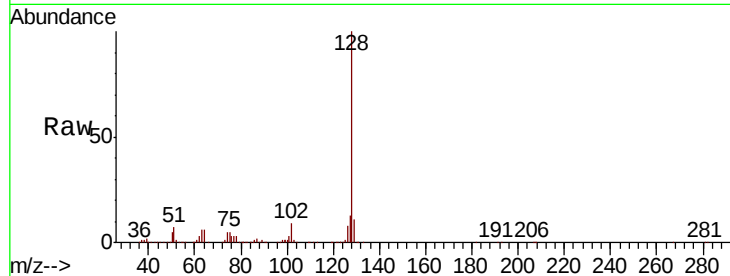
#95
Naphthalene
Concen: 50.056 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.4	10.9	16.3
129	11.1	8.7	13.1

Manual Integrations
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MMDadoda
2/18/2019 12:10:47 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.827 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW008659.D
Acq: 14 Feb 2019 11:48

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	96.5	47.5	142.5
145	32.3	15.9	47.7

