

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010920\
 Data File : VW014575.D
 Acq On : 09 Jan 2020 12:06
 Operator : SY/VA
 Sample : VW0109SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0109SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/10/2020 10:41:00 AM

Quant Time: Jan 09 12:51:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	763261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	1120661	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	965531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	486019	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	312548	46.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.68%	
35) Dibromofluoromethane	7.88	113	317313	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	10.32	98	1312859	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
62) 4-Bromofluorobenzene	12.62	95	449027	49.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	74027	17.178	ug/l	98
3) Chloromethane	2.21	50	102038	19.344	ug/l	99
4) Vinyl Chloride	2.36	62	151925	19.582	ug/l	98
5) Bromomethane	2.76	94	90598	18.903	ug/l	99
6) Chloroethane	2.92	64	83946	18.981	ug/l	98
7) Trichlorofluoromethane	3.25	101	70994	18.289	ug/l	94
8) Diethyl Ether	3.68	74	66933	17.330	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.06	101	136255	18.786	ug/l	99
10) Methyl Iodide	4.26	142	199489	18.229	ug/l	99
11) Tert butyl alcohol	5.16	59	46096	73.387	ug/l	97
12) 1,1-Dichloroethene	4.04	96	138348	18.214	ug/l	97
13) Acrolein	3.89	56	56153	96.408	ug/l	99
14) Allyl chloride	4.66	41	208461	17.960	ug/l	99
15) Acrylonitrile	5.36	53	154767	87.663	ug/l	99
16) Acetone	4.11	43	156490	83.049	ug/l	97
17) Carbon Disulfide	4.38	76	406483	17.756	ug/l	98
18) Methyl Acetate	4.67	43	82225	18.068	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	177081	18.781	ug/l	98
20) Methylene Chloride	4.91	84	156508	17.608	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	143589	17.804	ug/l	98
22) Diisopropyl ether	6.31	45	394949	18.179	ug/l	99
23) Vinyl Acetate	6.25	43	1130694	86.186	ug/l	99
24) 1,1-Dichloroethane	6.21	63	247133	18.033	ug/l	98
25) 2-Butanone	7.17	43	206839	85.534	ug/l	99
26) 2,2-Dichloropropane	7.17	77	141858	18.697	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	152015	17.938	ug/l	99
28) Bromochloromethane	7.51	49	94147	17.523	ug/l	97
29) Tetrahydrofuran	7.52	42	128482	85.764	ug/l	99
30) Chloroform	7.67	83	231222	18.042	ug/l	100
31) Cyclohexane	7.95	56	252095	17.701	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	188372	18.276	ug/l	100
36) 1,1-Dichloropropene	8.08	75	204214	18.902	ug/l	99
37) Ethyl Acetate	7.25	43	86949	17.745	ug/l	98
38) Carbon Tetrachloride	8.07	117	174385	18.605	ug/l	98

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	254474	18.354	ug/l	99
40) Benzene	8.32	78	572901	18.742	ug/l	100
41) Methacrylonitrile	7.48	41	44990	16.472	ug/l	95
42) 1,2-Dichloroethane	8.40	62	143874	18.137	ug/l	99
43) Isopropyl Acetate	8.42	43	154736	17.391	ug/l	99
44) Trichloroethene	9.09	130	153273	18.531	ug/l	95
45) 1,2-Dichloropropane	9.37	63	138678	18.488	ug/l	100
46) Dibromomethane	9.45	93	67462	18.218	ug/l	97
47) Bromodichloromethane	9.64	83	166182	18.177	ug/l	93
48) Methyl methacrylate	9.43	41	71934	16.559	ug/l	95
49) 1,4-Dioxane	9.44	88	23419	338.138	ug/l	97
51) 4-Methyl-2-Pentanone	10.21	43	416399	90.120	ug/l	99
52) Toluene	10.38	92	361474	18.797	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	171381	18.105	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	213616	18.465	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	99916	18.475	ug/l	98
56) Ethyl methacrylate	10.64	69	127790	18.182	ug/l	99
57) 1,3-Dichloropropane	10.93	76	175472	18.461	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	197715	92.495	ug/l	100
59) 2-Hexanone	10.96	43	293583	92.208	ug/l	98
60) Dibromochloromethane	11.13	129	109951	18.019	ug/l	97
61) 1,2-Dibromoethane	11.23	107	93185	18.152	ug/l	100
64) Tetrachloroethene	10.86	164	135389	19.369	ug/l	98
65) Chlorobenzene	11.65	112	371639	18.788	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	122149	18.340	ug/l	99
67) Ethyl Benzene	11.73	91	664013	18.627	ug/l	98
68) m/p-Xylenes	11.83	106	512227	37.544	ug/l	100
69) o-Xylene	12.16	106	238154	18.897	ug/l	98
70) Styrene	12.18	104	403591	18.934	ug/l	99
71) Bromoform	12.35	173	65946	18.153	ug/l #	99
73) Isopropylbenzene	12.46	105	653479	18.324	ug/l	100
74) N-amyl acetate	12.27	43	142824	17.862	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	115620	17.962	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	88724m	19.308	ug/l	
77) Bromobenzene	12.74	156	155471	18.771	ug/l	96
78) n-propylbenzene	12.80	91	779969	18.600	ug/l	99
79) 2-Chlorotoluene	12.89	91	436253	18.281	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	553034	18.470	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	35479	17.202	ug/l	97
82) 4-Chlorotoluene	12.99	91	456528	18.413	ug/l	100
83) tert-Butylbenzene	13.21	119	484449	18.479	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	549891	18.454	ug/l	99
85) sec-Butylbenzene	13.38	105	671410	18.503	ug/l	99
86) p-Isopropyltoluene	13.49	119	619788	18.739	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	294130	18.262	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	292183	18.375	ug/l	98
89) n-Butylbenzene	13.82	91	565539	18.413	ug/l	100
90) Hexachloroethane	14.09	117	102361	17.715	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	263211	18.593	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	18379	18.031	ug/l	97

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ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VW0109SBSD01

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Quant Title : SW846 8260
QLast Update : Fri Jan 03 16:07:20 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	185187	19.372	ug/l	98
94) Hexachlorobutadiene	15.23	225	123768	19.320	ug/l	97
95) Naphthalene	15.36	128	294484	18.063	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	157450	18.895	ug/l	98

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

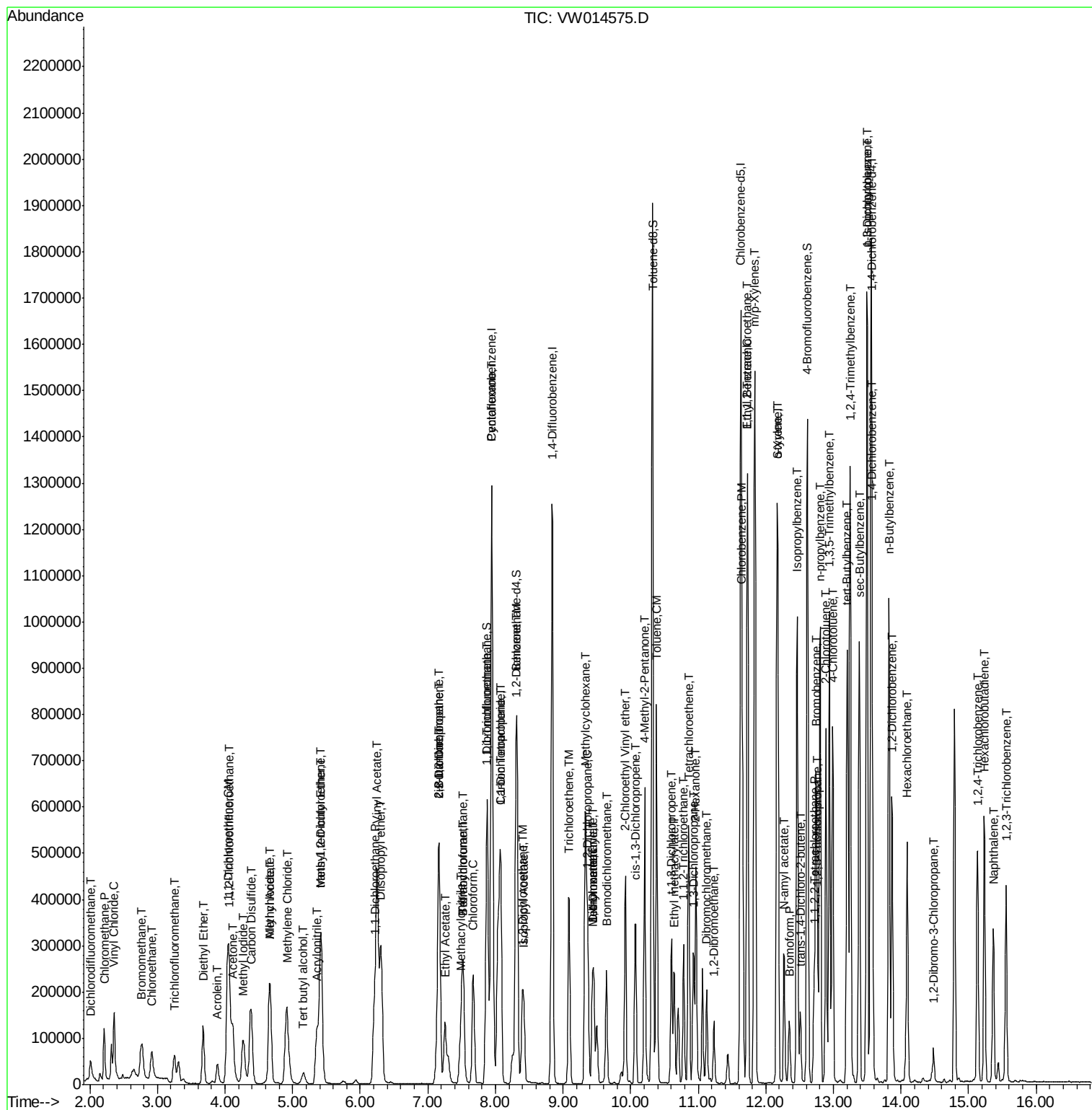
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010920\
Data File : VW014575.D
Acq On : 09 Jan 2020 12:06
Operator : SY/VA
Sample : VW0109SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 6 Sample Multiplier: 1

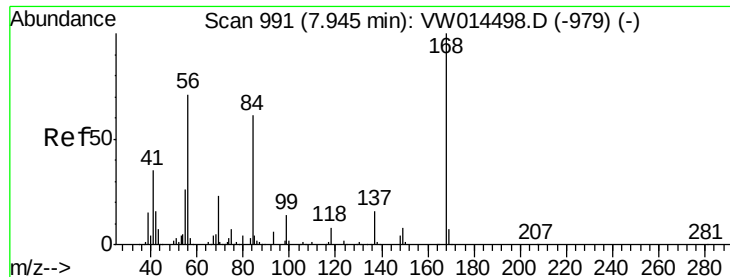
Instrument :
MSVOA_W
ClientSampleId :
VW0109SBSD01

Manual Integrations
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBSD01

Tot Ion:168 Resp: 763261

Ion Ratio Lower Upper

168 100

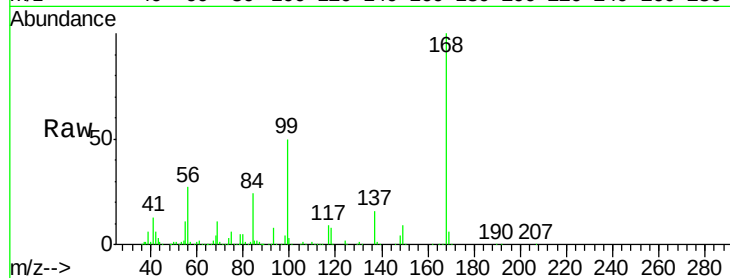
99 49.9 41.1 61.7

Manual Integrations

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1/10/2020 10:41:00 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

400000

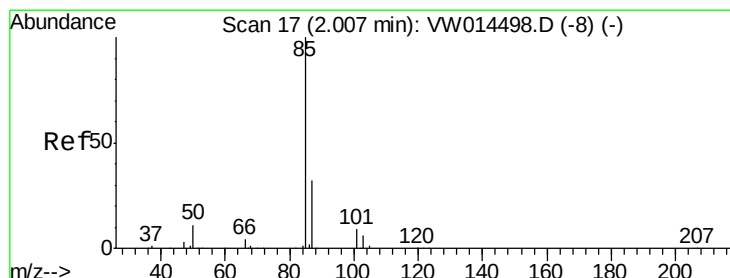
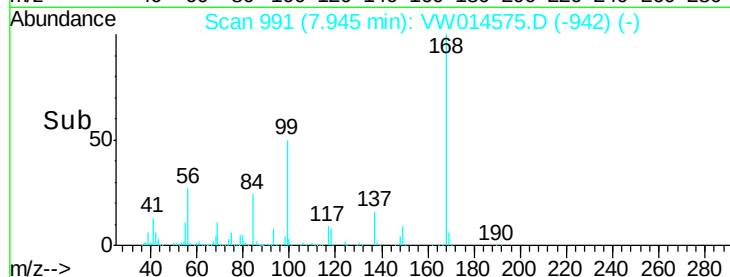
300000

200000

100000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 17.178 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW014575.D

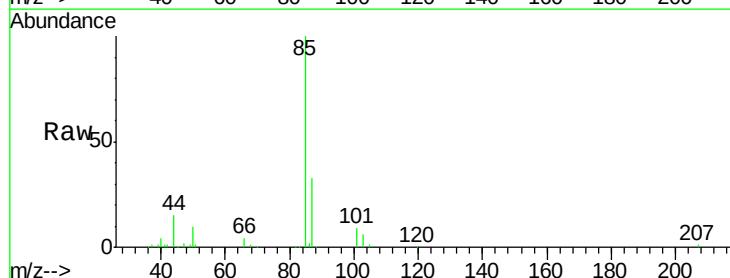
Acq: 09 Jan 2020 12:06

Tgt Ion: 85 Resp: 74027

Ion Ratio Lower Upper

85 100

87 33.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

30000

25000

20000

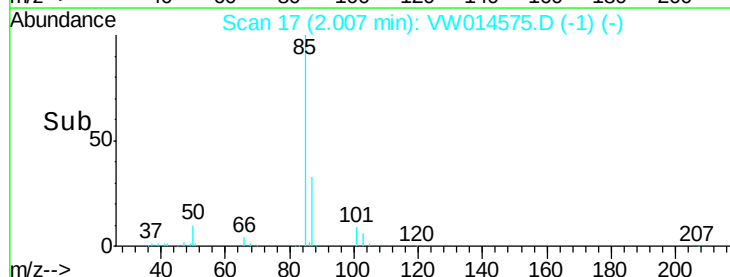
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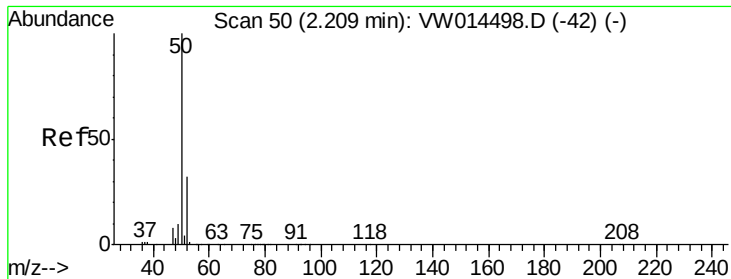
10000

5000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 19.344 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 50 Resp: 102038

Ion Ratio Lower Upper

50 100

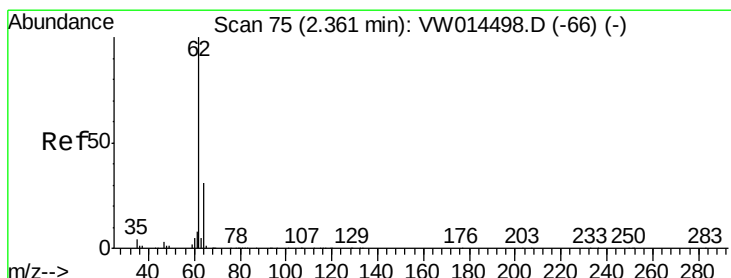
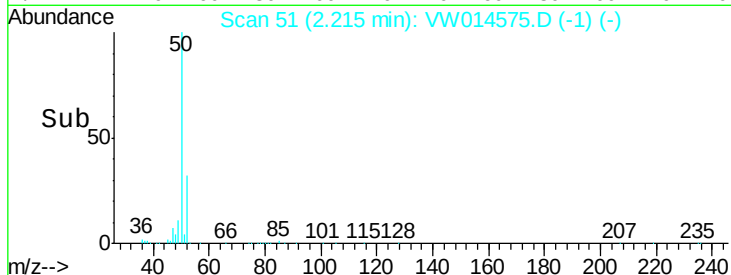
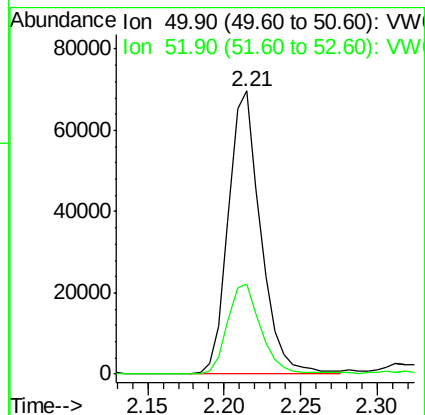
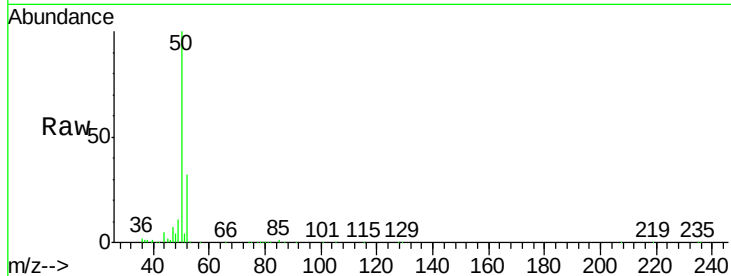
52 31.9 25.8 38.8

Manual Integrations

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1/10/2020 10:41:00 AM



#4

Vinyl Chloride

Concen: 19.582 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014575.D

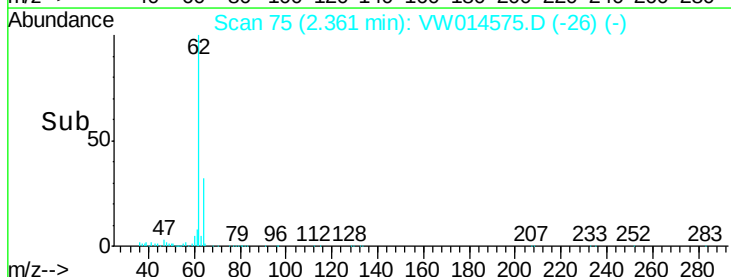
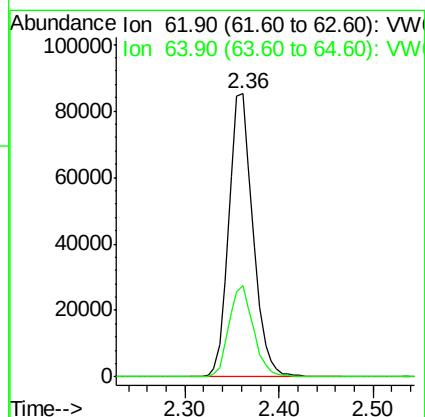
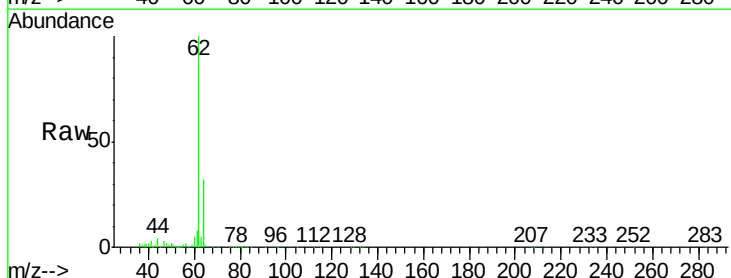
Acq: 09 Jan 2020 12:06

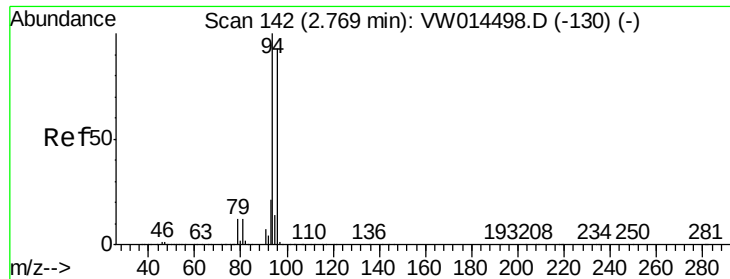
Tgt Ion: 62 Resp: 151925

Ion Ratio Lower Upper

62 100

64 32.1 25.0 37.4





#5

Bromomethane

Concen: 18.903 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 94 Resp: 90598

Ion Ratio Lower Upper

94 100

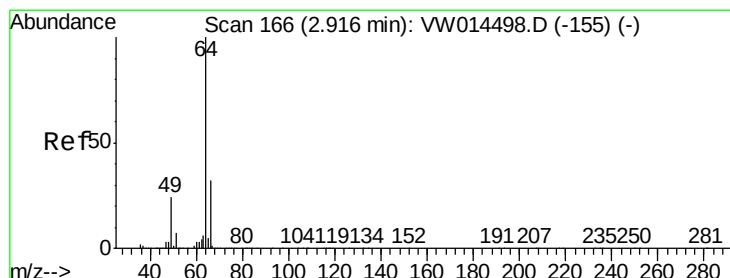
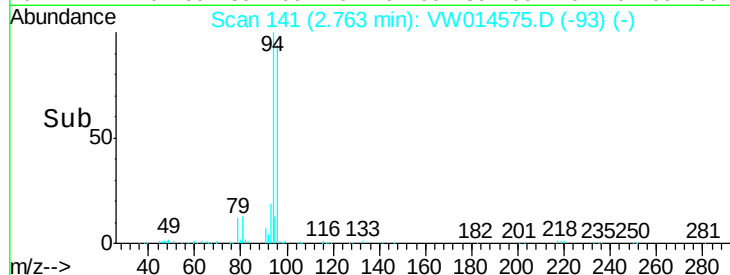
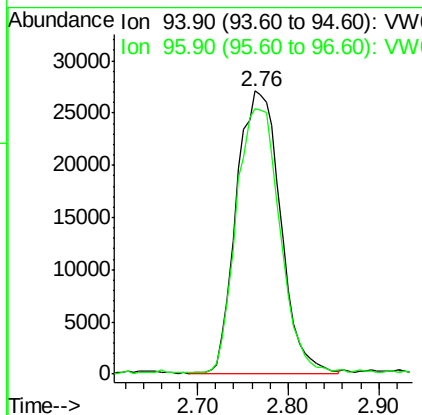
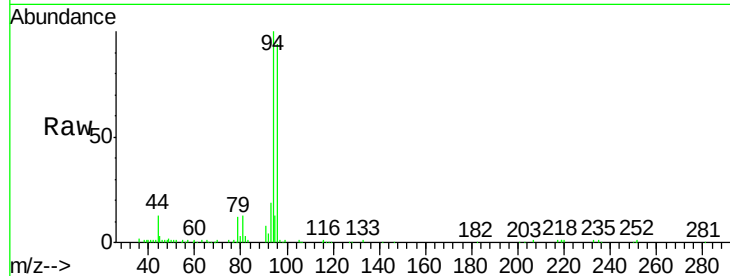
96 93.8 74.2 111.2

Manual Integrations

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1/10/2020 10:41:00 AM



#6

Chloroethane

Concen: 18.981 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW014575.D

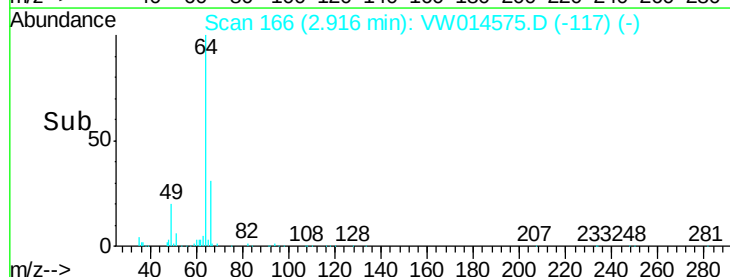
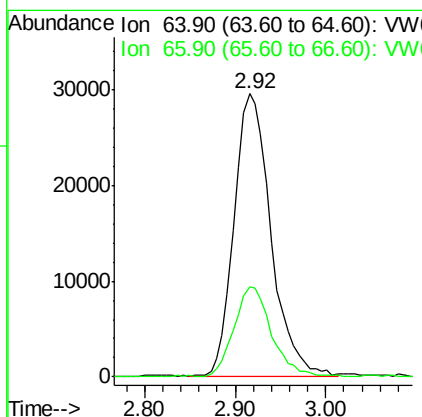
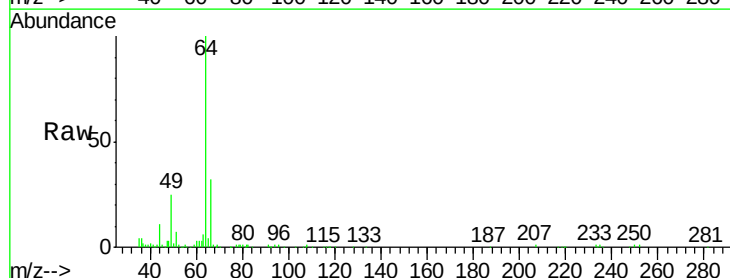
Acq: 09 Jan 2020 12:06

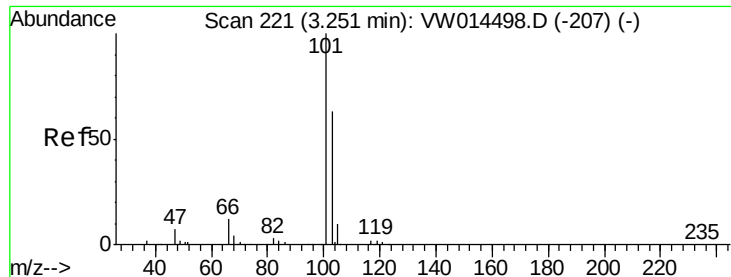
Tgt Ion: 64 Resp: 83946

Ion Ratio Lower Upper

64 100

66 31.2 25.7 38.5





#7

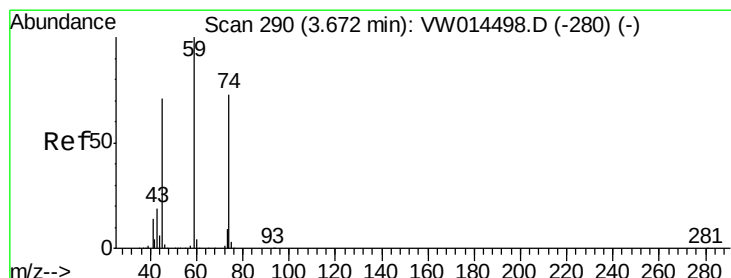
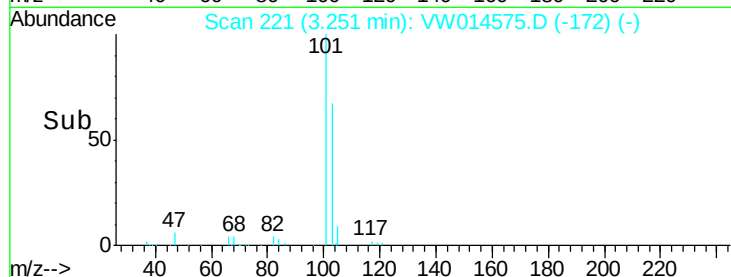
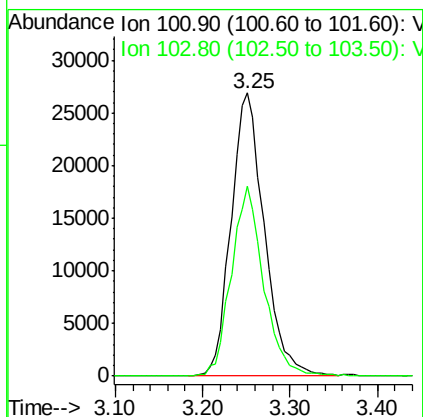
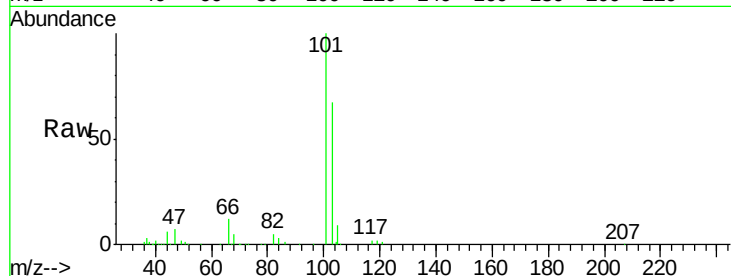
Trichlorofluoromethane
Concen: 18.289 ug/l
RT: 3.25 min Scan# 221
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
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ClientSampleId :
VW0109SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		70994		
103	67.0	50.1	75.1		

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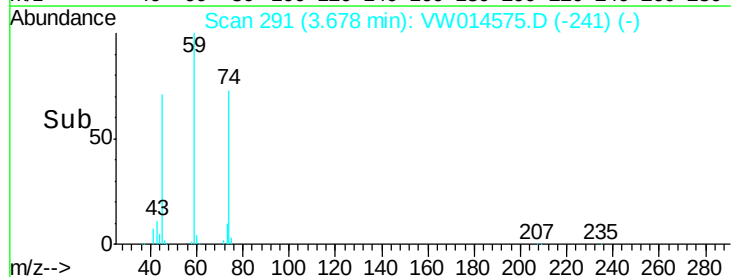
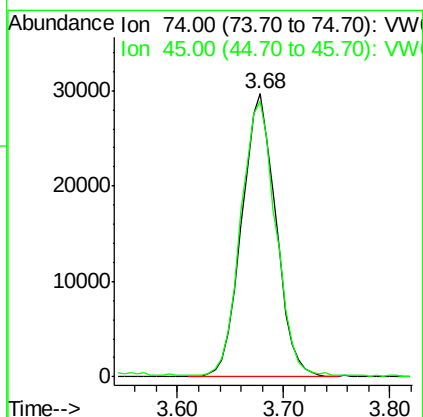
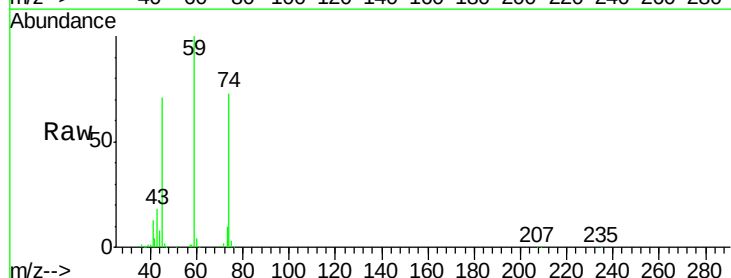
MMDadoda
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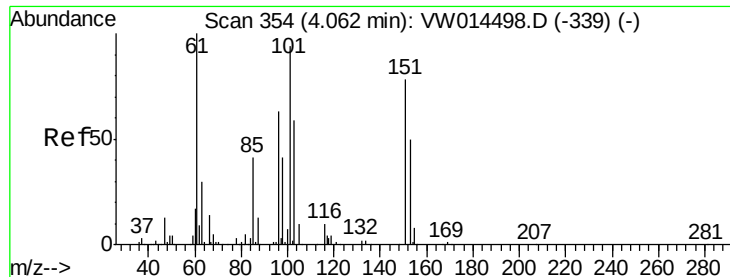


#8

Diethyl Ether
Concen: 17.330 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		66933		
45	99.3	48.6	145.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.786 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

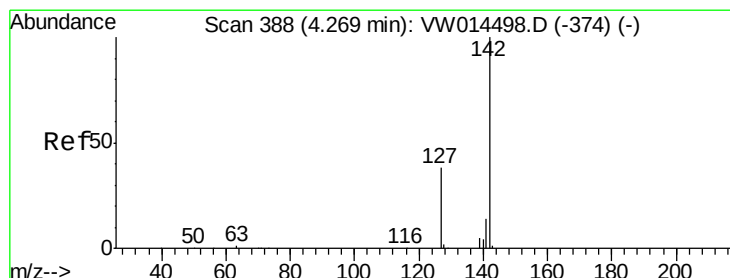
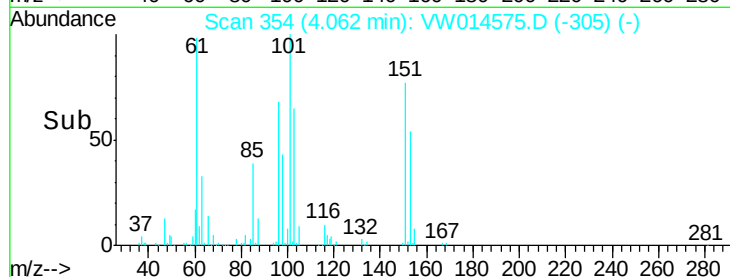
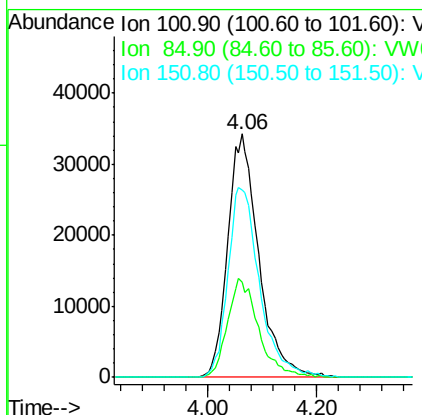
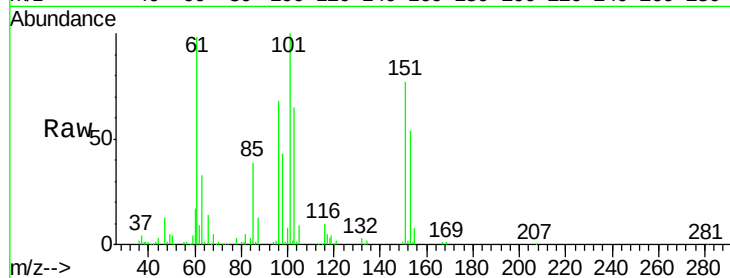
ClientSampleId :

VW0109SBS01

Tot Ion:	101	Resp:	136255
Ion Ratio	Lower	Upper	
101	100		
85	40.7	33.7	50.5
151	79.7	63.5	95.3

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#10

Methyl Iodide

Concen: 18.229 ug/l

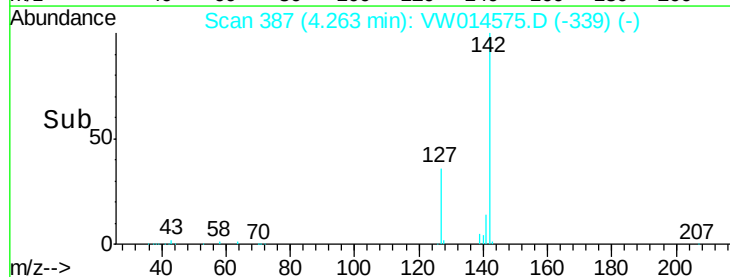
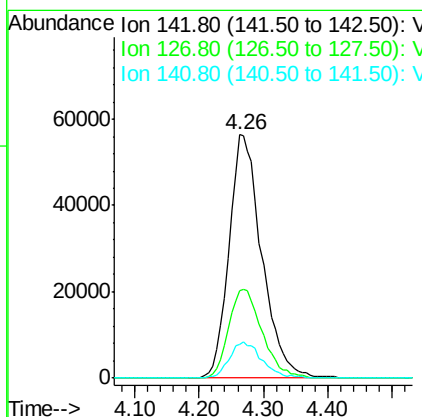
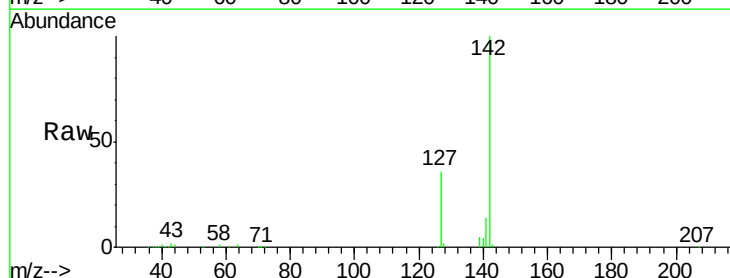
RT: 4.26 min Scan# 387

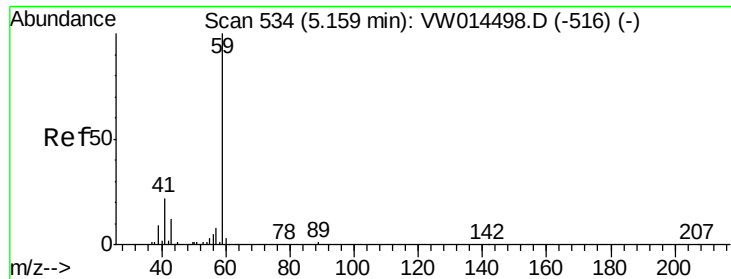
Delta R.T. -0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion:	142	Resp:	199489
Ion Ratio	Lower	Upper	
142	100		
127	37.6	30.2	45.4
141	14.9	11.4	17.2





#11

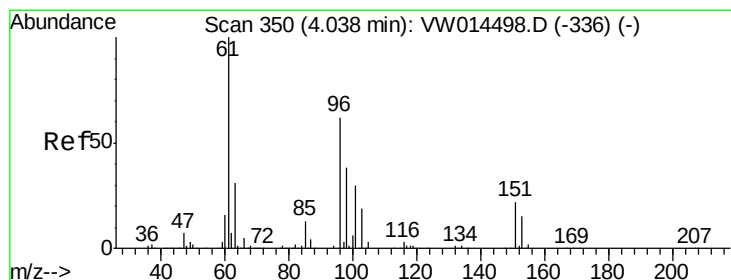
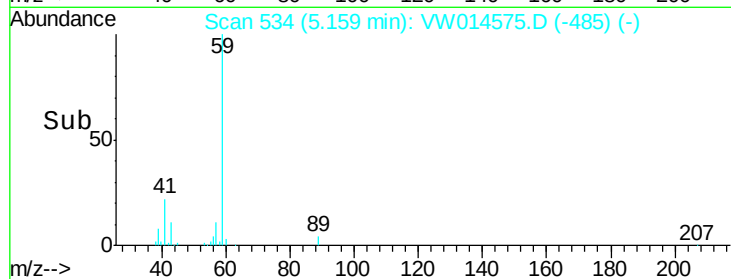
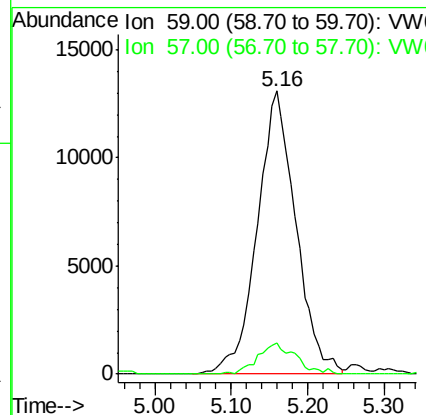
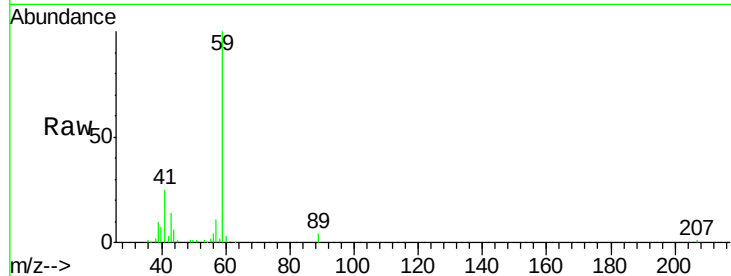
Tert butyl alcohol
Concen: 73.387 ug/l
RT: 5.16 min Scan# 534
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8

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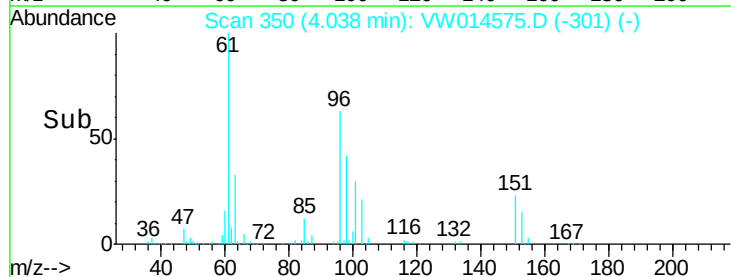
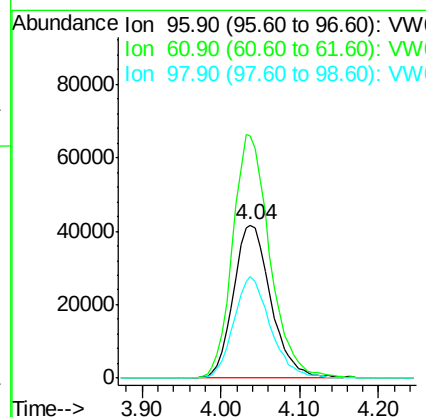
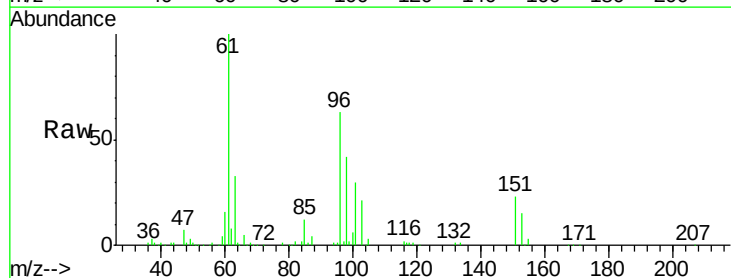
MMDadoda
1/10/2020 10:41:00 AM

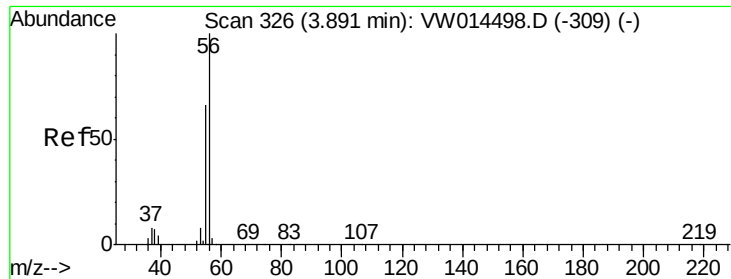


#12

1,1-Dichloroethene
Concen: 18.214 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.4	128.4	192.6
98	66.3	49.1	73.7





#13

Acrolein

Concen: 96.408 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 56 Resp: 56153

Ion Ratio Lower Upper

56 100

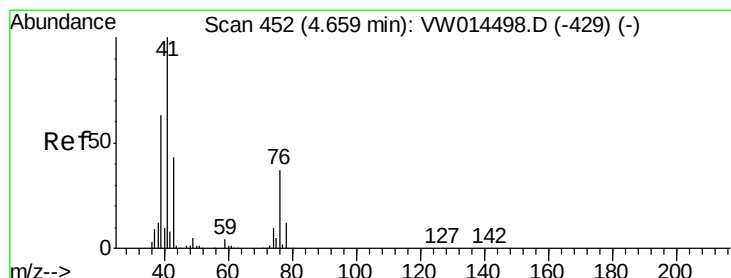
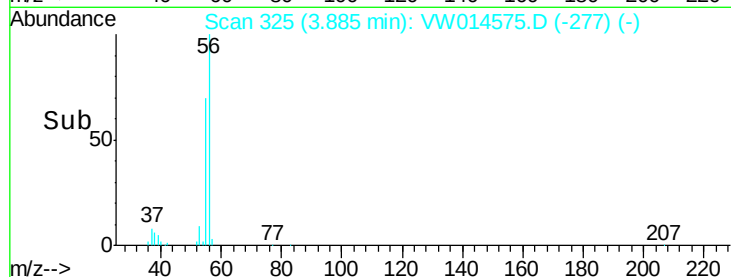
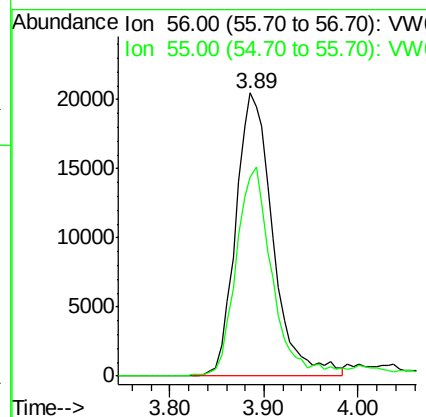
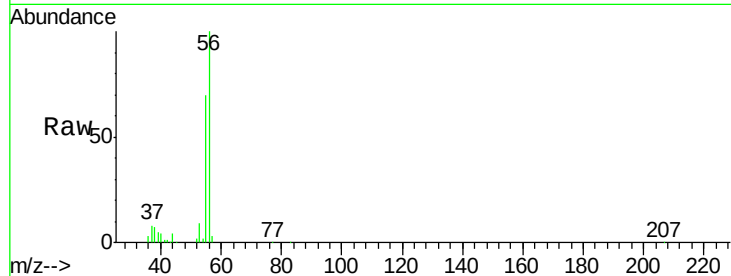
55 69.8 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 17.960 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

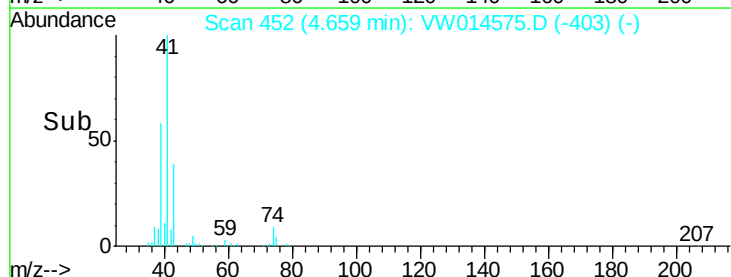
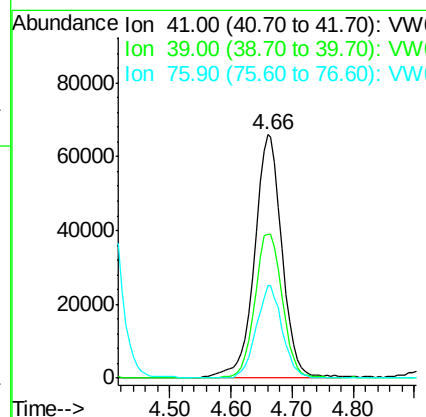
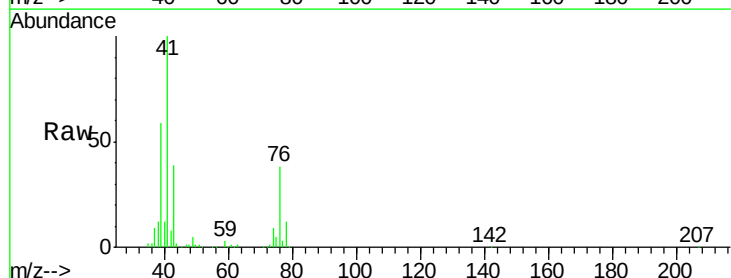
Tgt Ion: 41 Resp: 208461

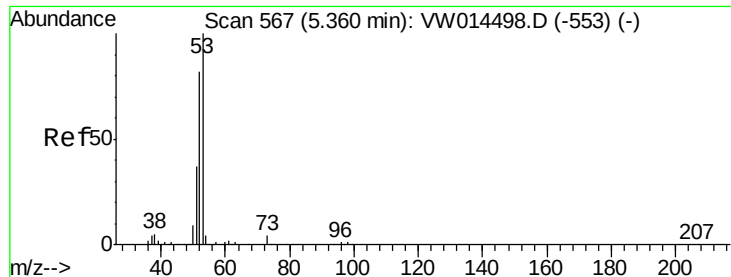
Ion Ratio Lower Upper

41 100

39 59.5 48.5 72.7

76 35.8 28.1 42.1





#15

Acrylonitrile

Concen: 87.663 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

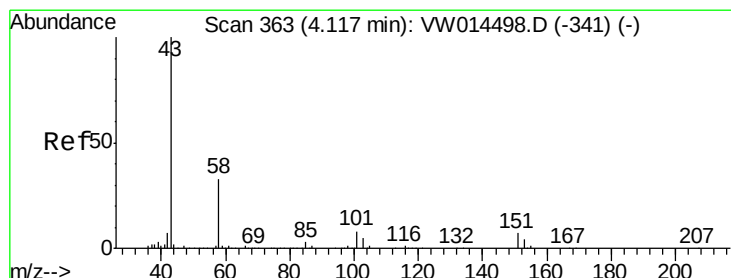
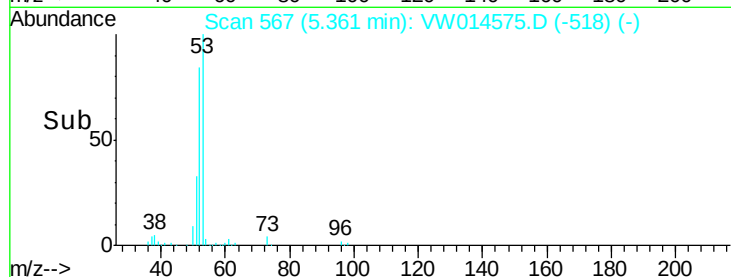
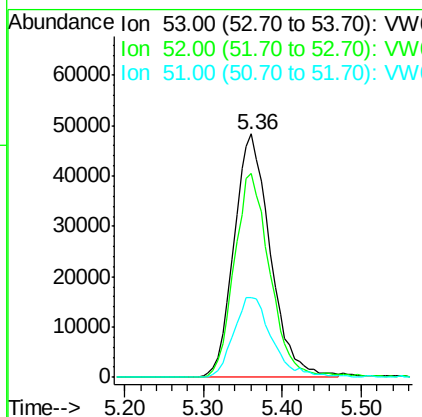
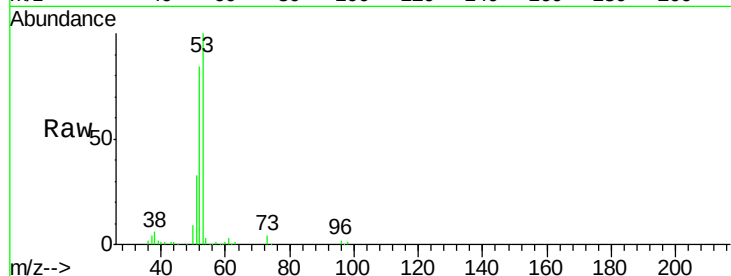
ClientSampleId :

VW0109SBS01

Tot Ion:	53	Resp:	154767
Ion Ratio	Lower	Upper	
53	100		
52	82.1	66.5	99.7
51	34.8	28.4	42.6

Manual Integrations
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#16

Acetone

Concen: 83.049 ug/l

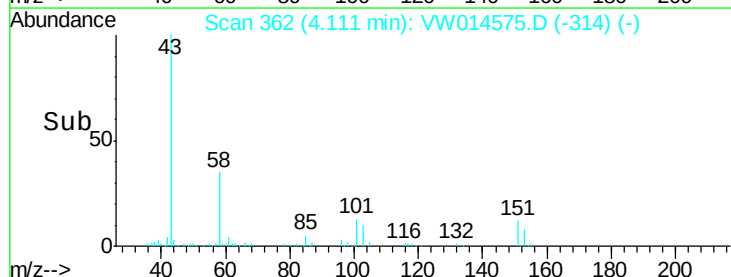
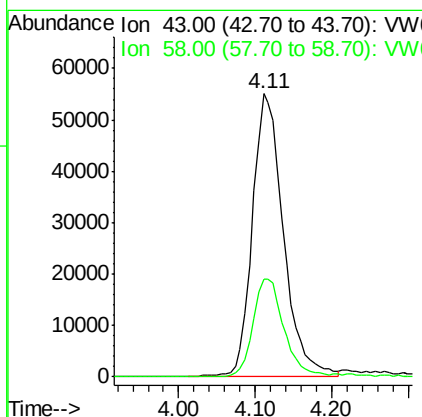
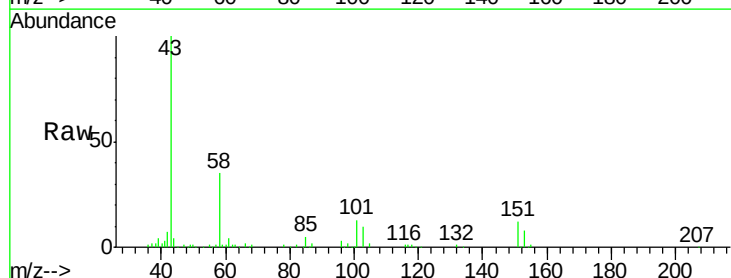
RT: 4.11 min Scan# 362

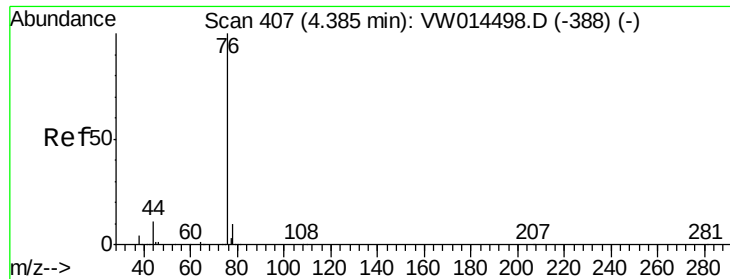
Delta R.T. -0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion:	43	Resp:	156490
Ion Ratio	Lower	Upper	
43	100		
58	34.7	26.6	39.8





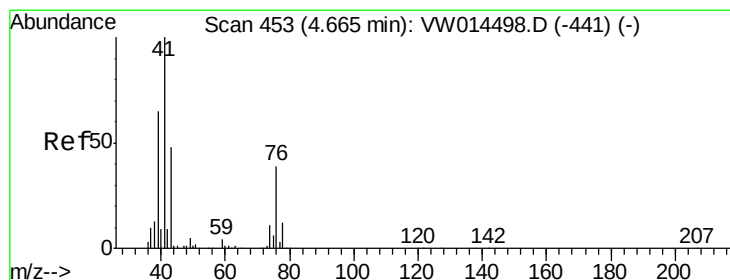
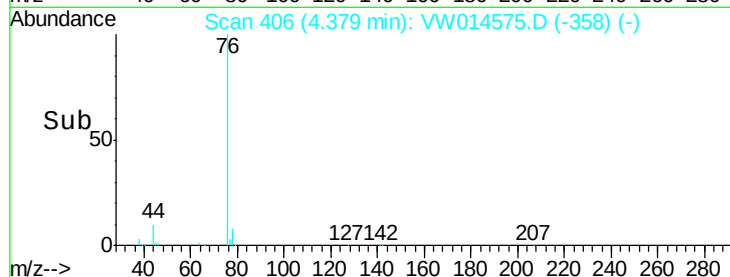
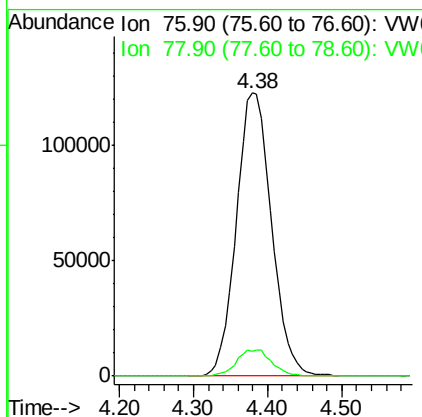
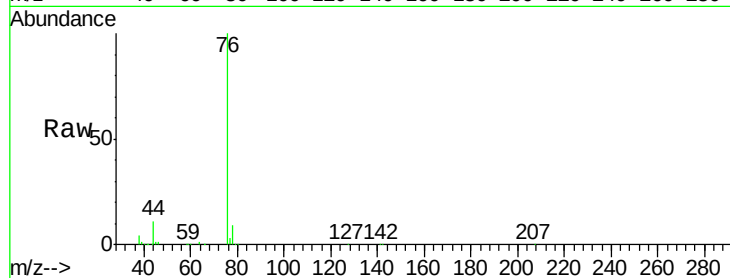
#17
Carbon Disulfide
Concen: 17.756 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.8	11.6

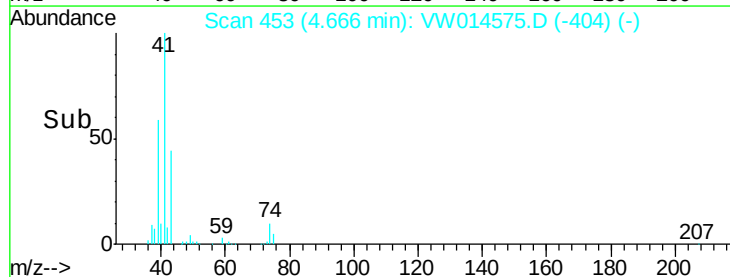
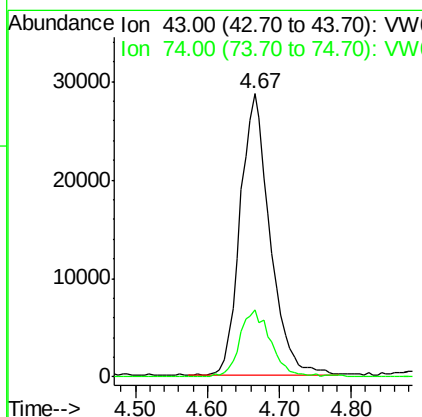
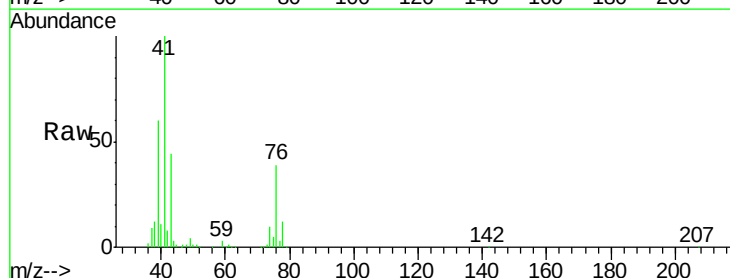
Manual Integrations
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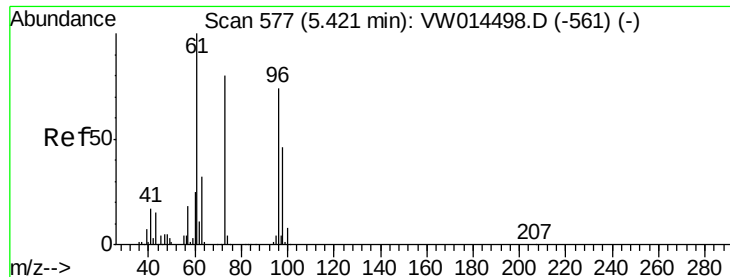
MMDadoda
1/10/2020 10:41:00 AM



#18
Methyl Acetate
Concen: 18.068 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	19.3	28.9





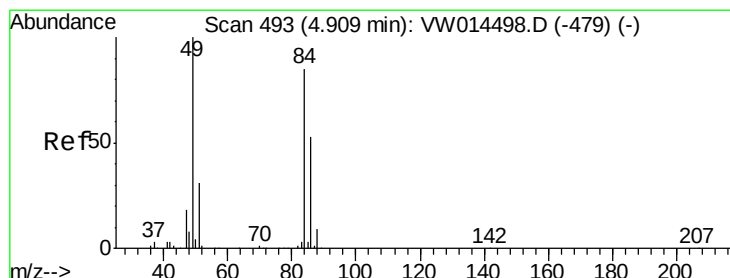
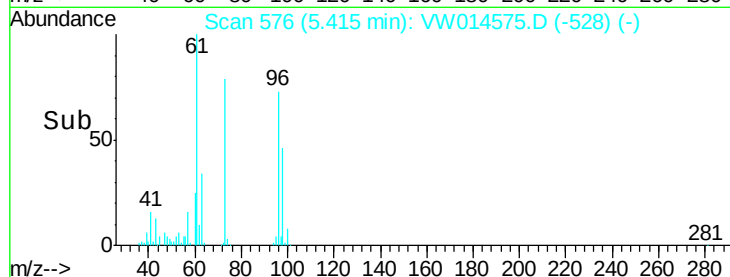
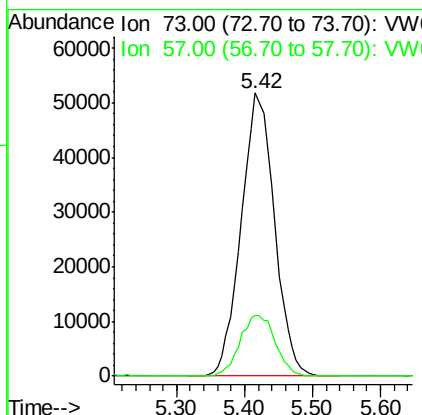
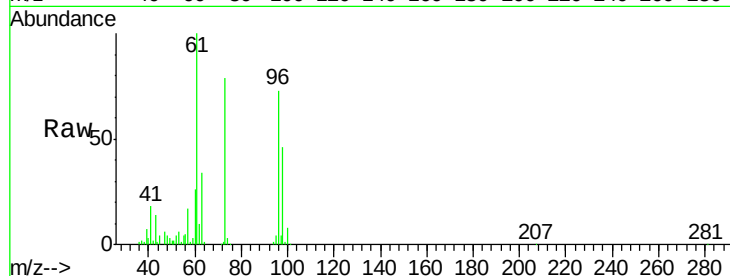
#19
Methyl tert-butyl Ether
Concen: 18.781 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.1	27.1

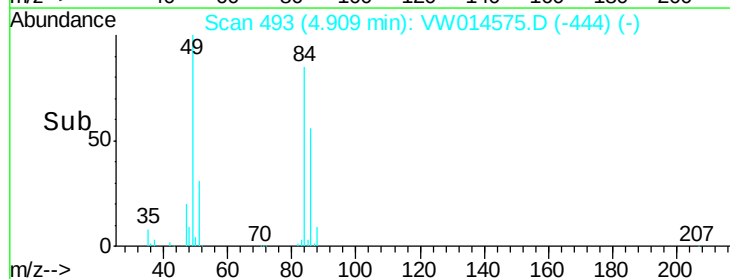
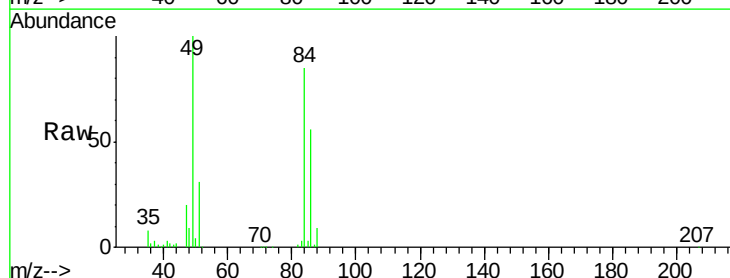
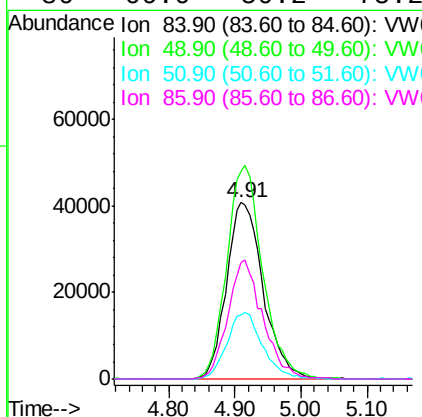
Manual Integrations
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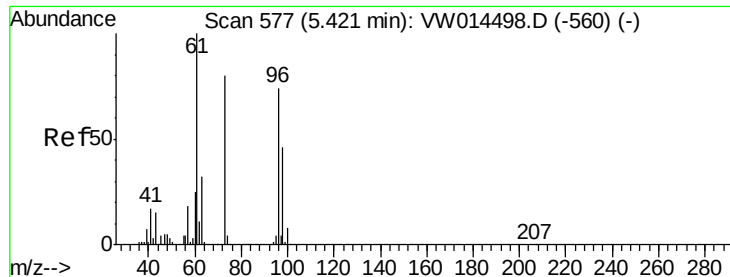
MMDadoda
1/10/2020 10:41:00 AM



#20
Methylene Chloride
Concen: 17.608 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.3	94.4	141.6
51	36.4	29.5	44.3
86	66.0	50.2	75.2





#21

trans-1,2-Dichloroethene

Concen: 17.804 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

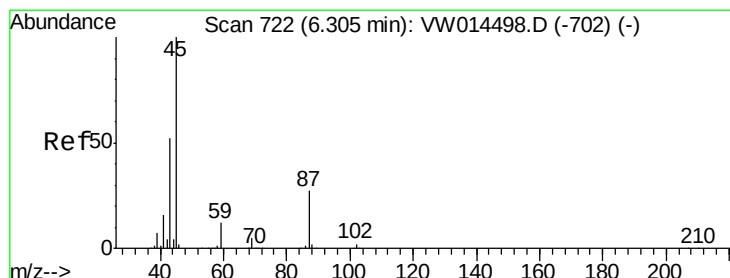
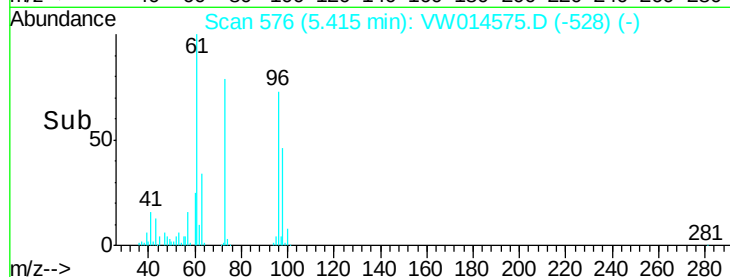
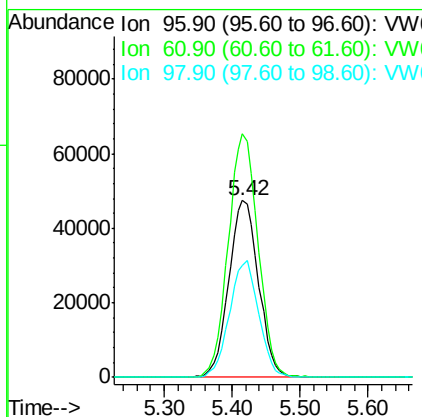
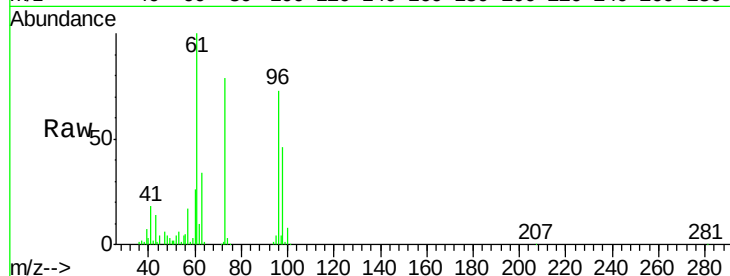
ClientSampleId :

VW0109SBSD01

Tot Ion:	96	Resp:	143589
Ion	Ratio	Lower	Upper
96	100		
61	137.9	107.8	161.6
98	63.2	49.4	74.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 18.179 ug/l

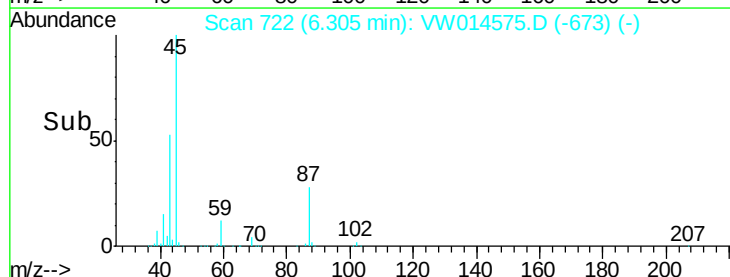
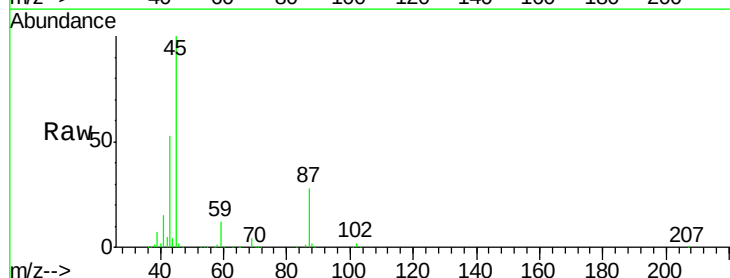
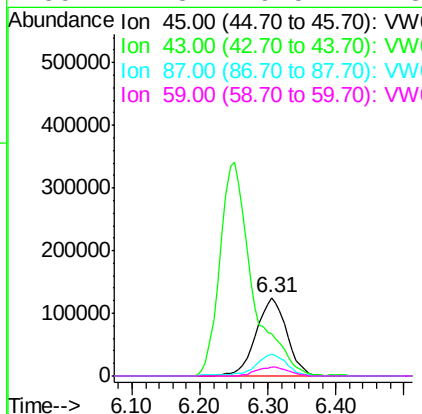
RT: 6.31 min Scan# 722

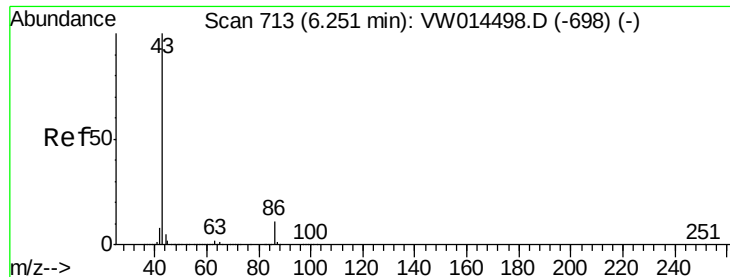
Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion:	45	Resp:	394949
Ion	Ratio	Lower	Upper
45	100		
43	53.2	41.4	62.0
87	27.5	22.2	33.2
59	11.8	9.5	14.3





#23

Vinyl Acetate

Concen: 86.186 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tot Ion: 43 Resp: 1130694

Ion Ratio Lower Upper

43 100

86 10.5 8.8 13.2

Instrument :

MSVOA_W

ClientSampleId :

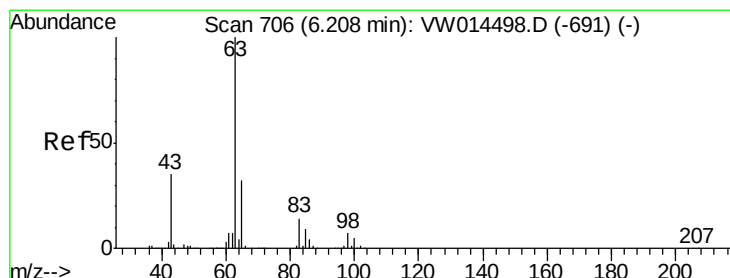
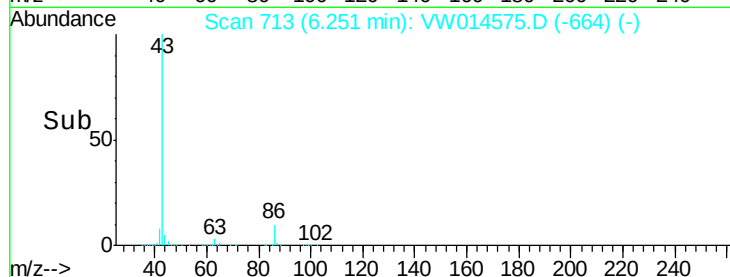
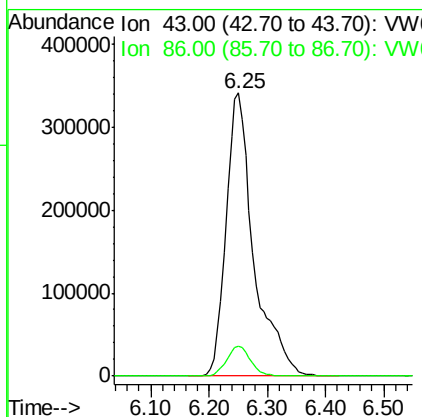
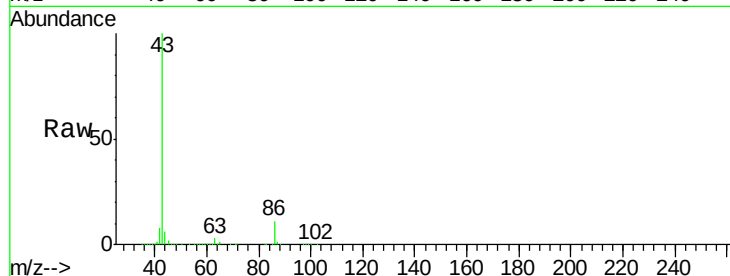
VW0109SBS01

Manual Integrations

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1/10/2020 10:41:00 AM



#24

1,1-Dichloroethane

Concen: 18.033 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

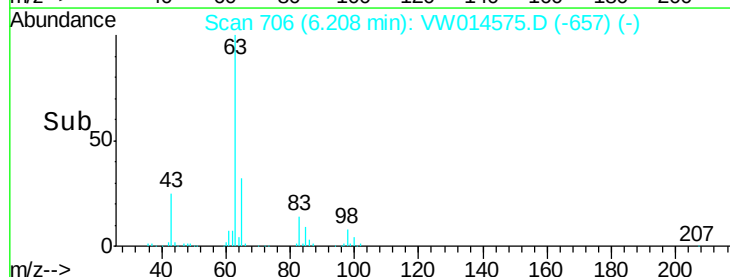
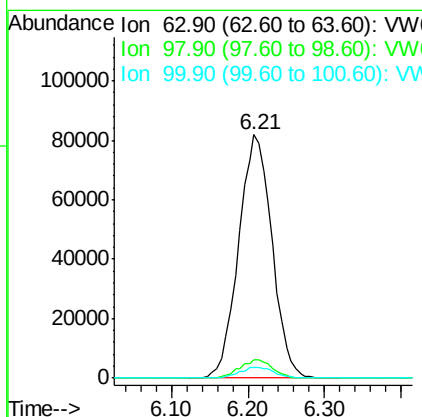
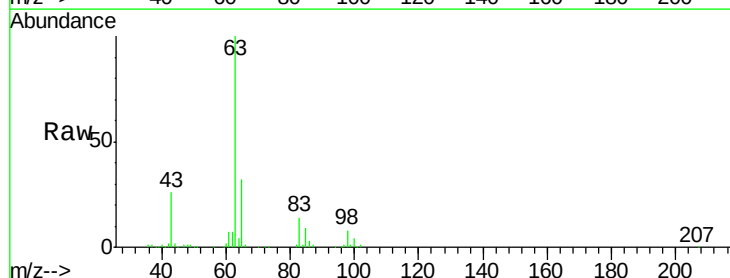
Tgt Ion: 63 Resp: 247133

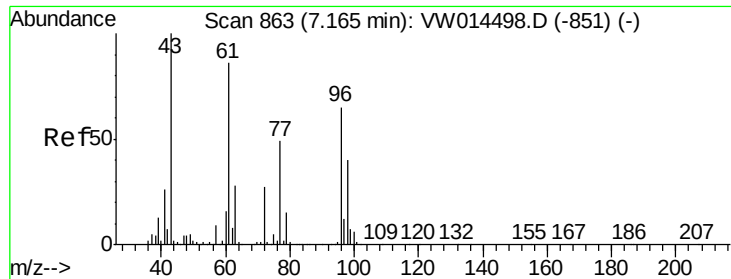
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.4

100 4.4 2.5 7.4





#25

2-Butanone

Concen: 85.534 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 43 Resp: 206839

Ion Ratio Lower Upper

43 100

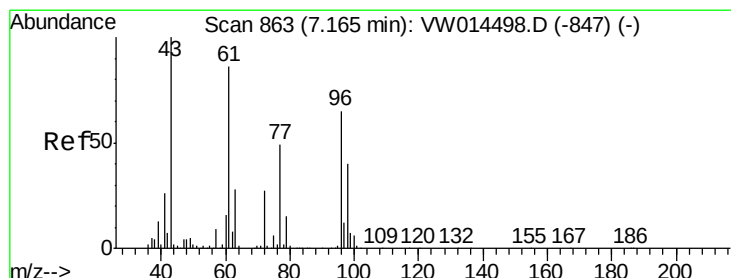
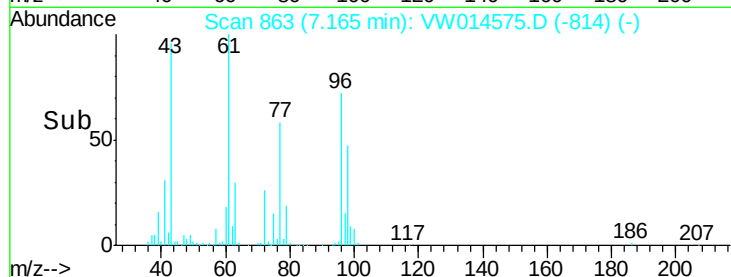
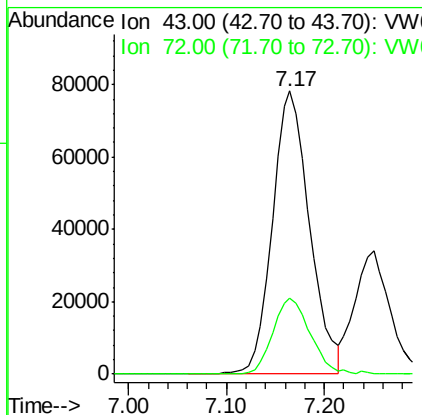
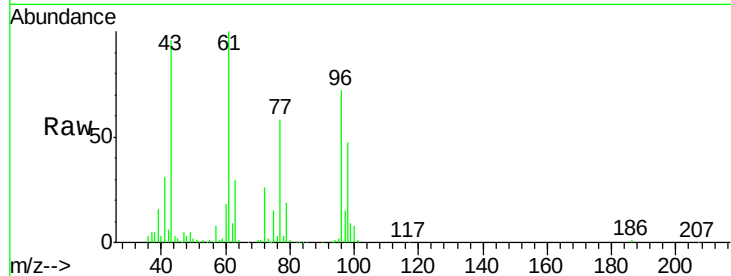
72 27.1 21.9 32.9

Manual Integrations

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MMDadoda

1/10/2020 10:41:00 AM



#26

2,2-Dichloropropane

Concen: 18.697 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014575.D

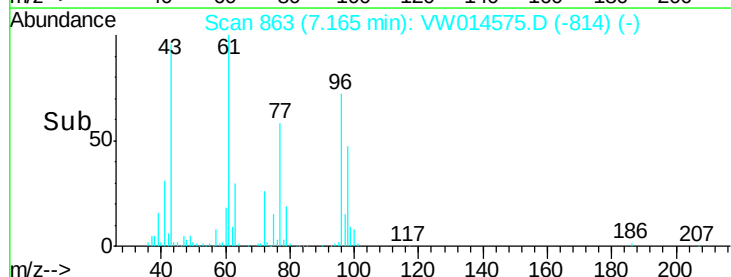
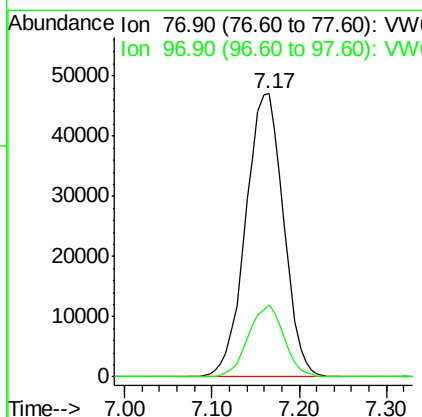
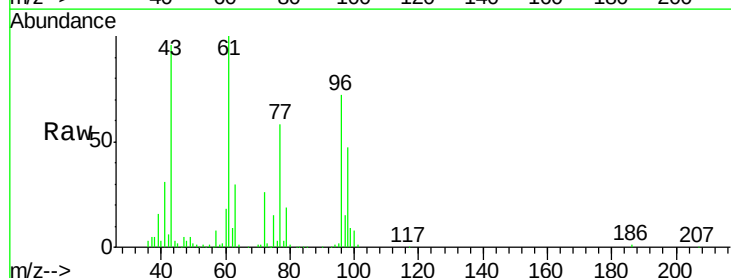
Acq: 09 Jan 2020 12:06

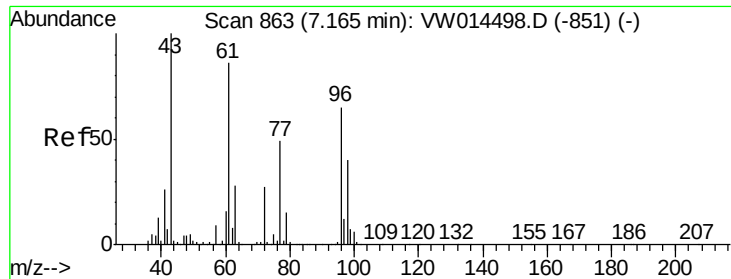
Tgt Ion: 77 Resp: 141858

Ion Ratio Lower Upper

77 100

97 23.9 12.5 37.5





#27

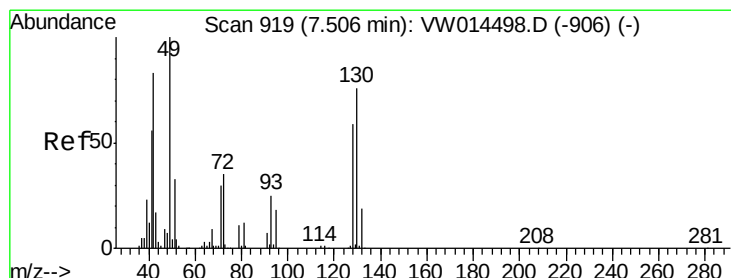
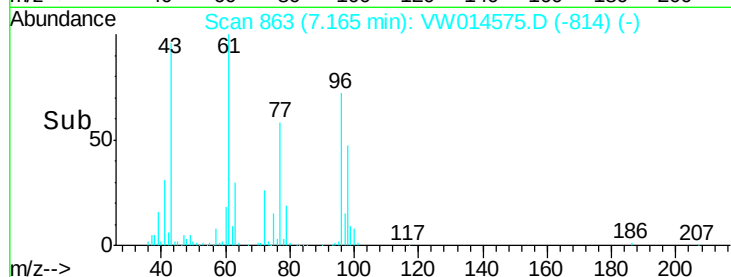
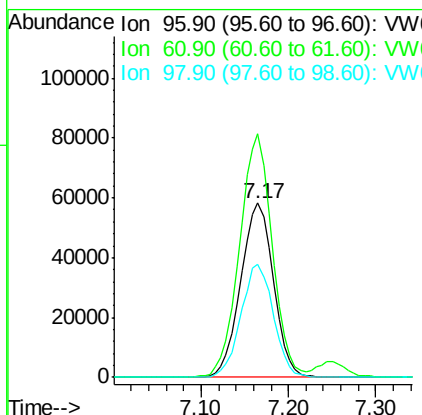
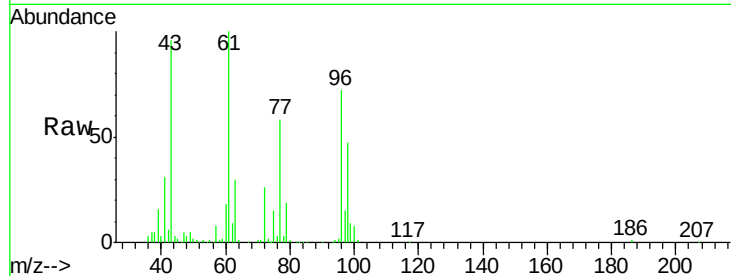
cis-1,2-Dichloroethene
Concen: 17.938 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	152015		
61	139.0	0.0	274.8	
98	64.5	0.0	128.6	

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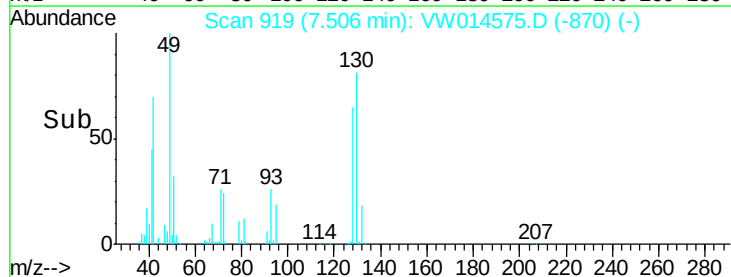
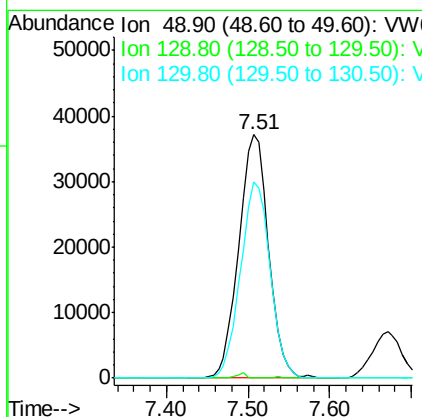
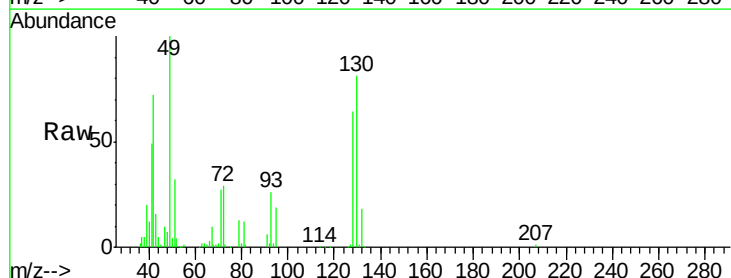
MMDadoda
1/10/2020 10:41:00 AM

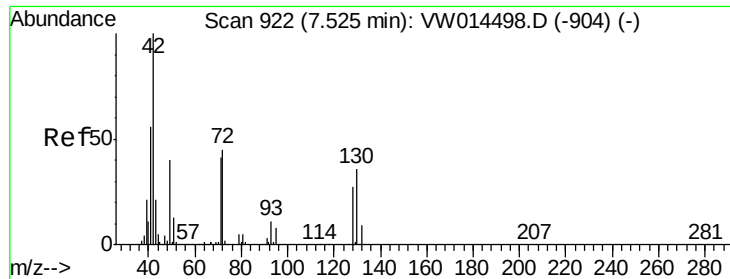


#28

Bromochloromethane
Concen: 17.523 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	94147		
129	0.7	0.0	2.0	
130	80.5	62.5	93.7	





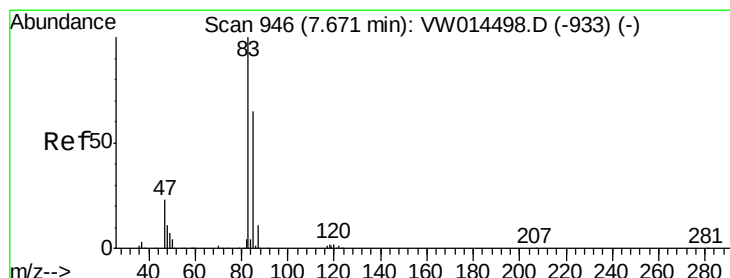
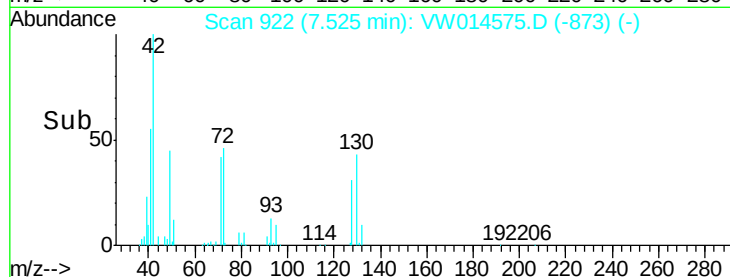
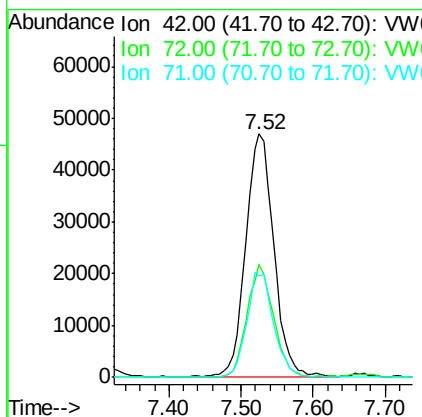
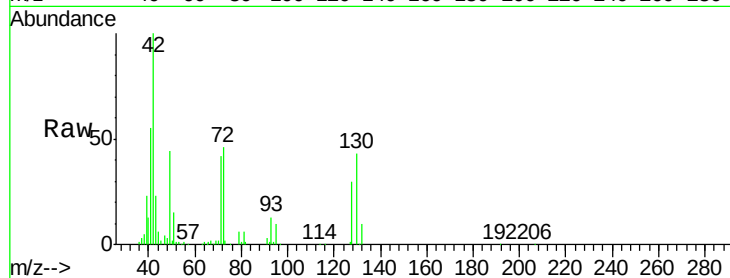
#29
Tetrahydrofuran
Concen: 85.764 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.5	51.7
71	40.6	32.0	48.0

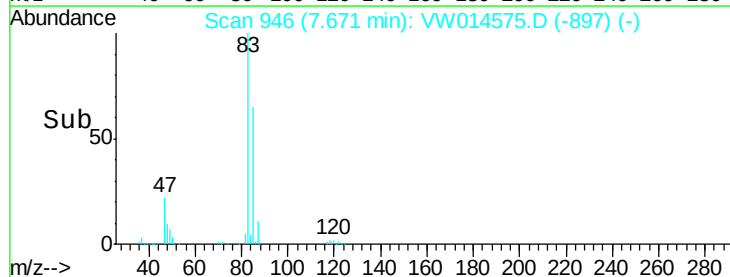
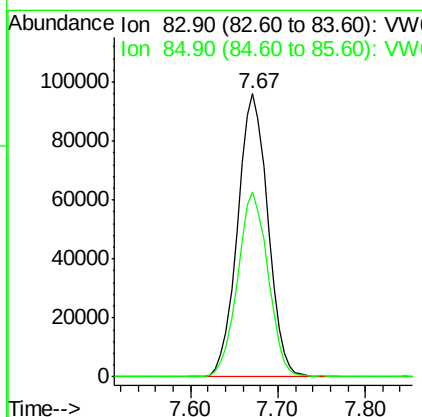
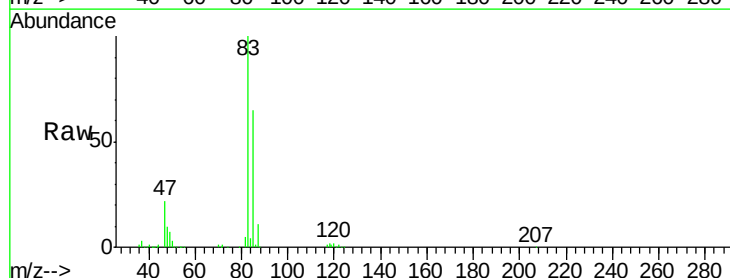
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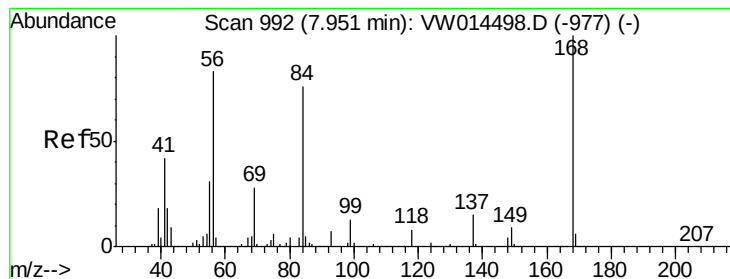
MMDadoda
1/10/2020 10:41:00 AM



#30
Chloroform
Concen: 18.042 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.2	78.2





#31

Cyclohexane

Concen: 17.701 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

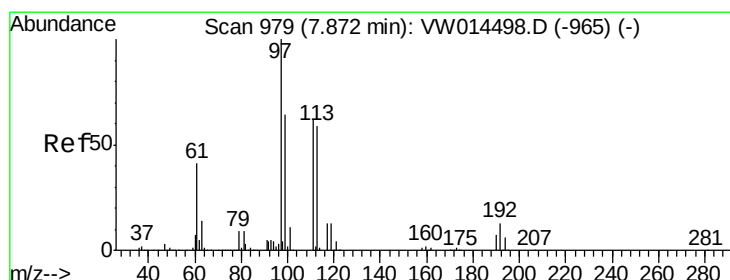
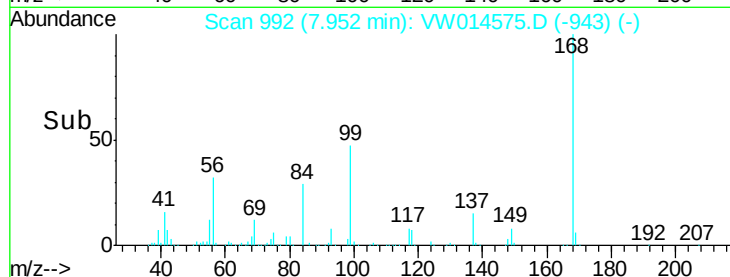
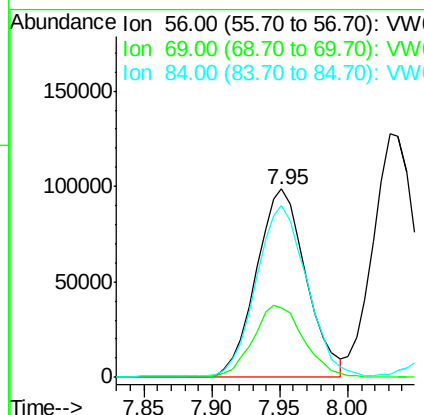
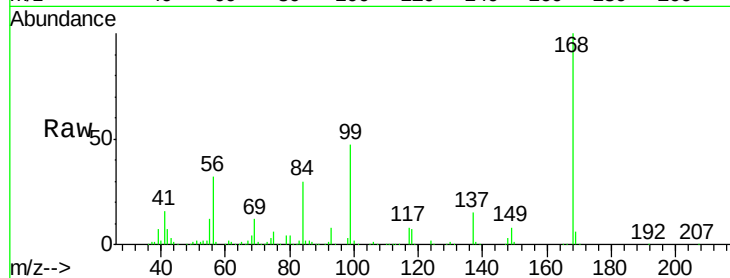
ClientSampleId :

VW0109SBS01

Tot Ion:	56	Resp:	252095
Ion Ratio	Lower	Upper	
56	100		
69	37.2	26.8	40.2
84	90.6	71.8	107.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 18.276 ug/l

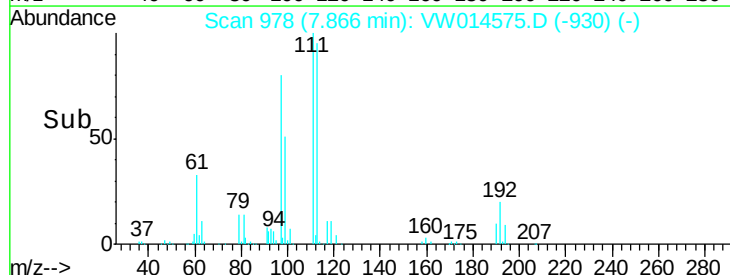
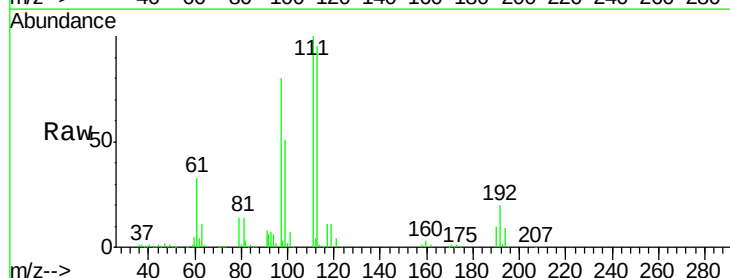
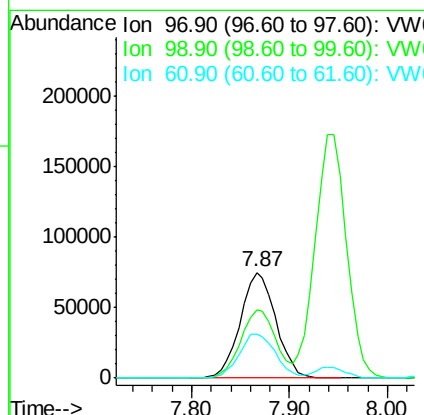
RT: 7.87 min Scan# 978

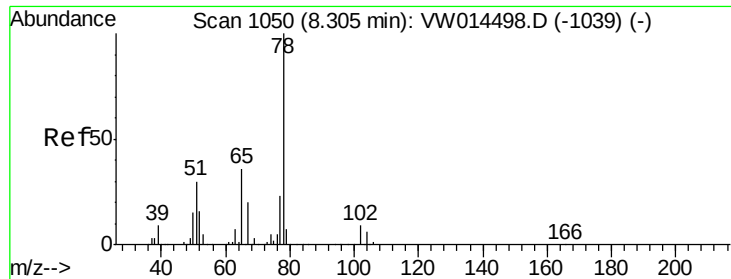
Delta R.T. -0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion:	97	Resp:	188372
Ion Ratio	Lower	Upper	
97	100		
99	64.8	51.8	77.6
61	43.0	33.8	50.8





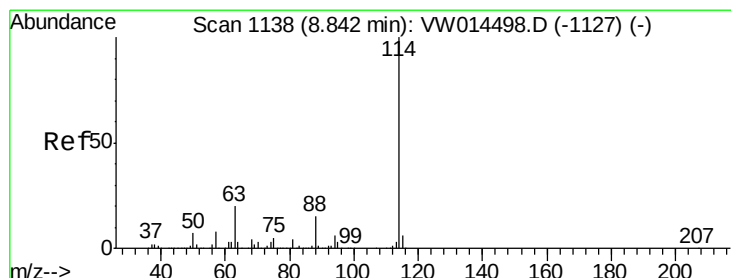
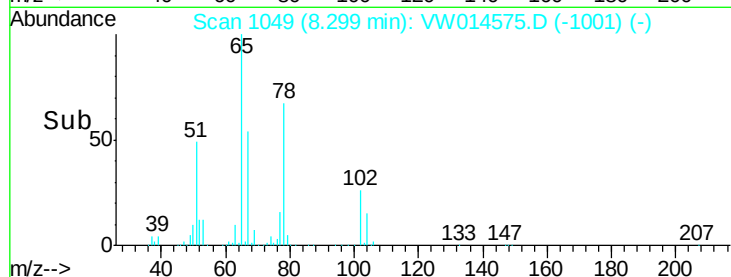
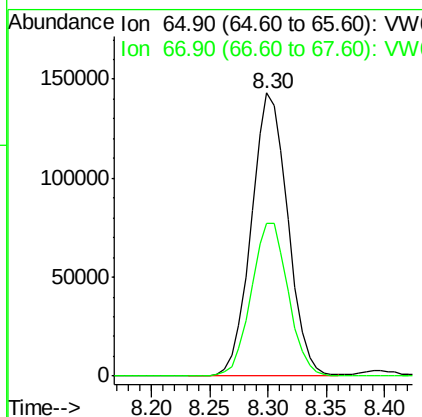
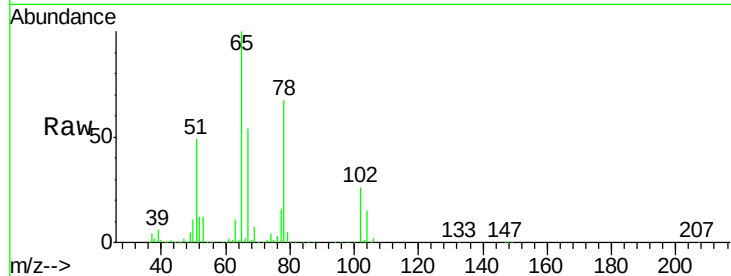
#33
 1,2-Dichloroethane-d4
 Concen: 46.836 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0109SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.0	0.0	108.4

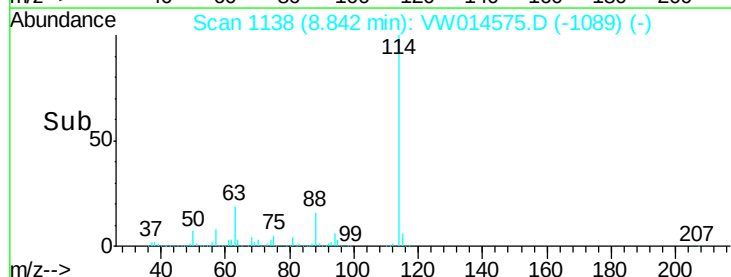
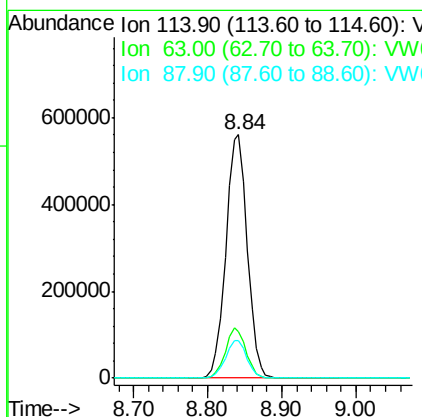
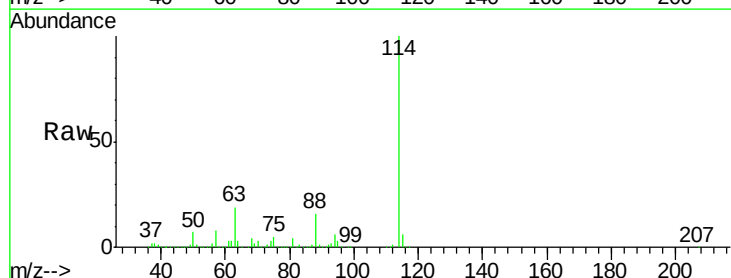
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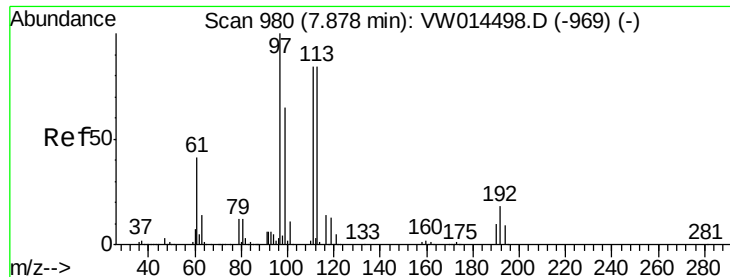
MMDadoda
 1/10/2020 10:41:00 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.4
88	15.6	0.0	30.6





#35

Dibromofluoromethane

Concen: 49.543 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

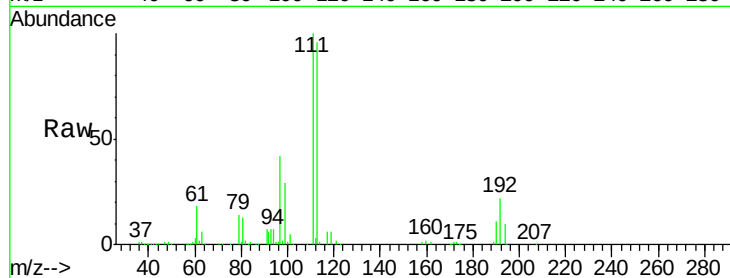
ClientSampled :

VW0109SBS01

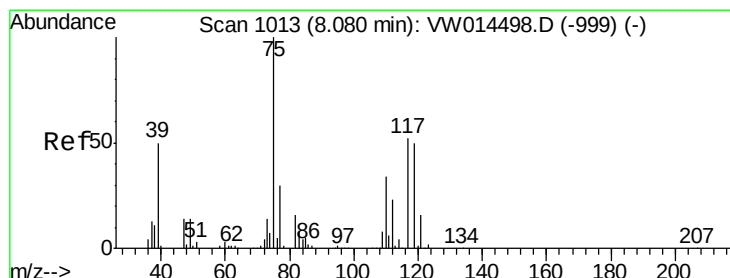
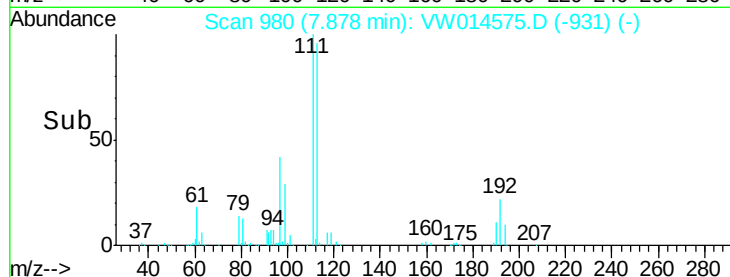
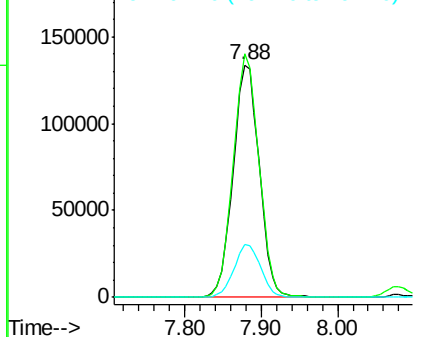
Tot Ion:	113	Resp:	317313
Ion Ratio	Lower	Upper	
113	100		
111	102.9	81.4	122.2
192	23.1	17.8	26.8

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Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 18.902 ug/l

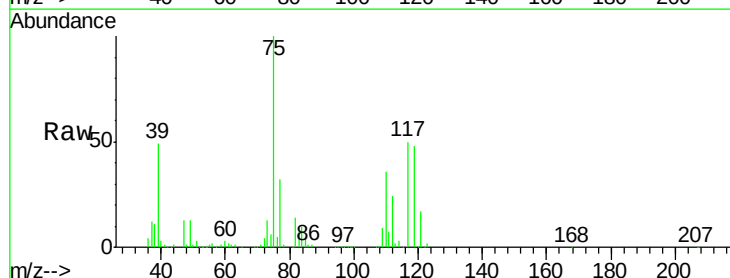
RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

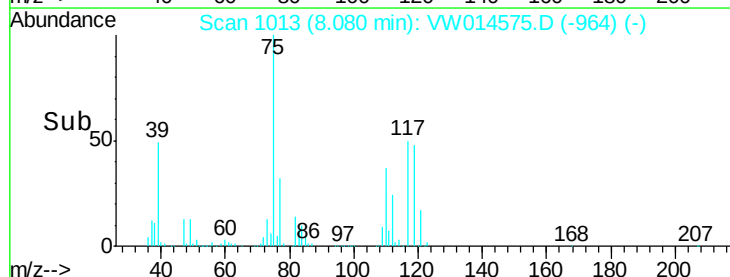
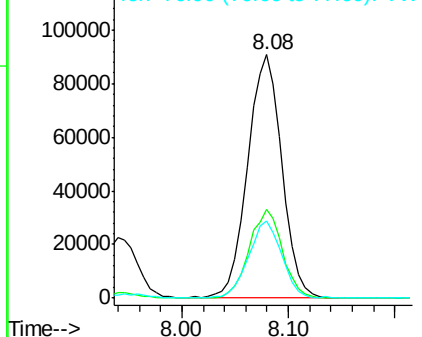
Lab File: VW014575.D

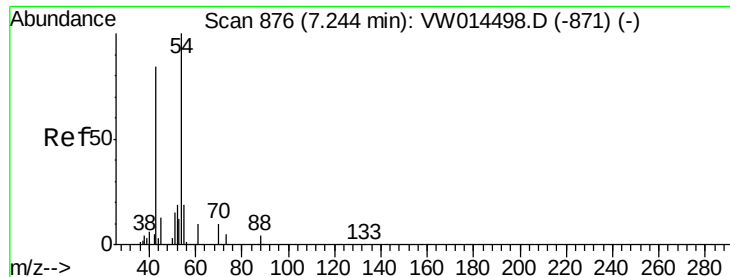
Acq: 09 Jan 2020 12:06

Tgt Ion:	75	Resp:	204214
Ion Ratio	Lower	Upper	
75	100		
110	35.4	17.8	53.5
77	31.2	24.7	37.1



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW





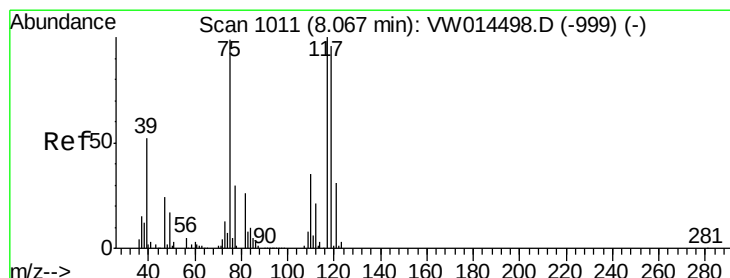
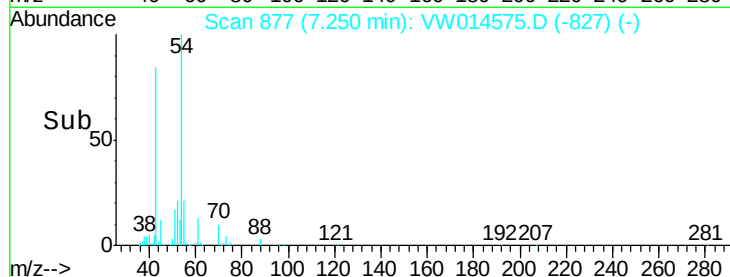
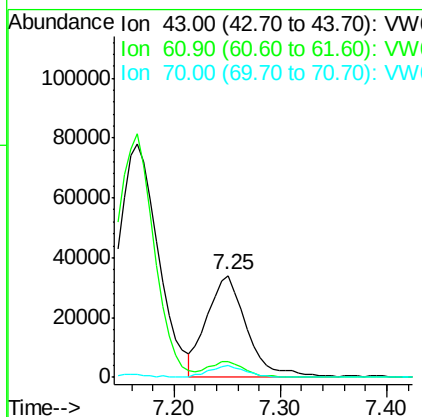
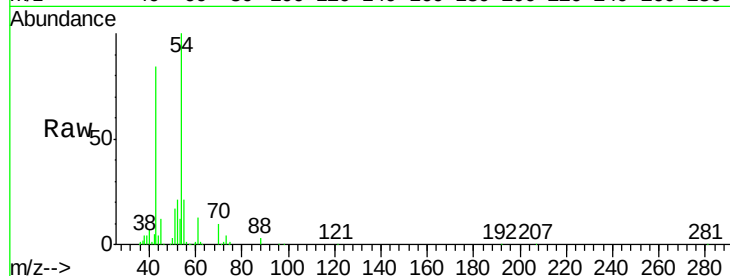
#37
Ethyl Acetate
Concen: 17.745 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.7	17.5
70	10.6	9.0	13.6

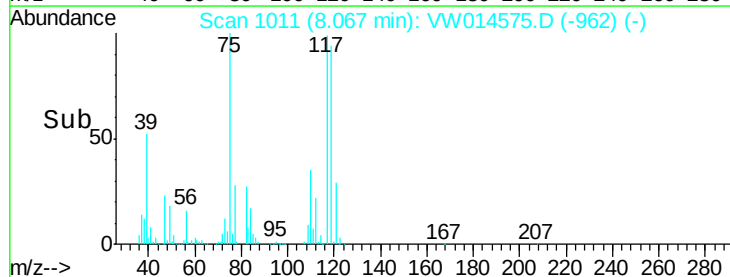
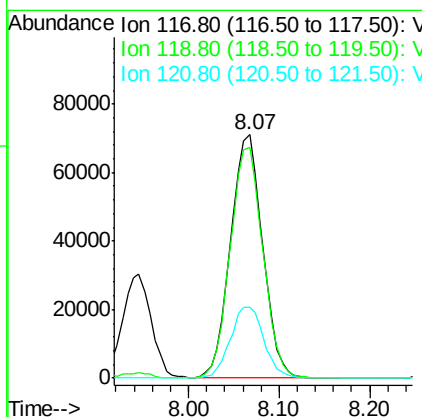
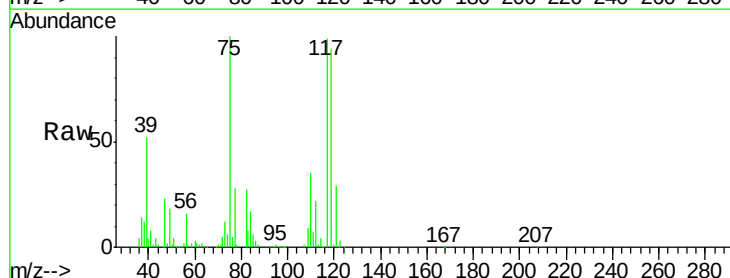
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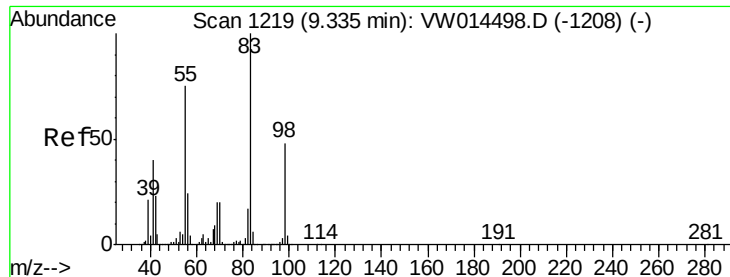
MMDadoda
1/10/2020 10:41:00 AM



#38
Carbon Tetrachloride
Concen: 18.605 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.0	115.6
121	29.2	24.6	36.8





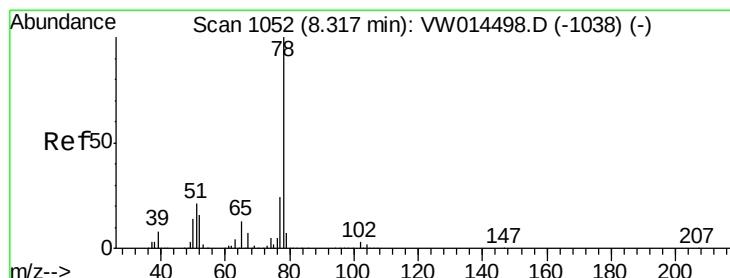
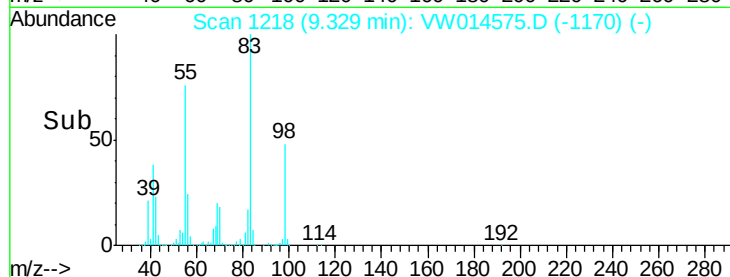
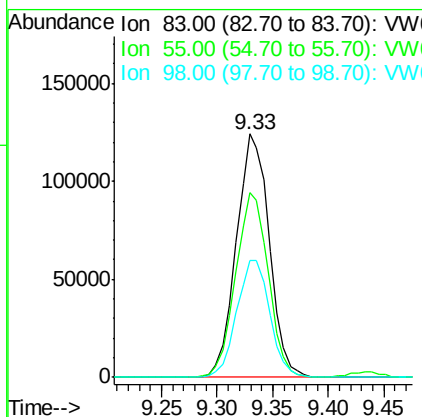
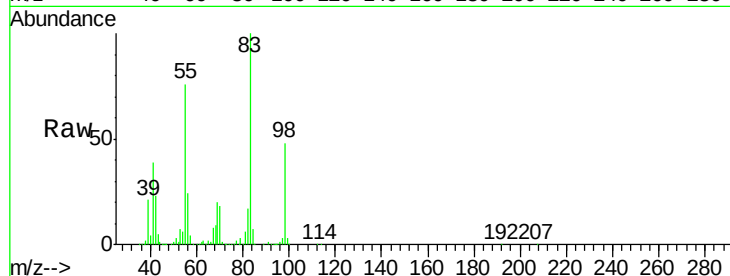
#39
Methylvlcyclohexane
Concen: 18.354 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.7	60.1	90.1
98	47.8	38.8	58.2

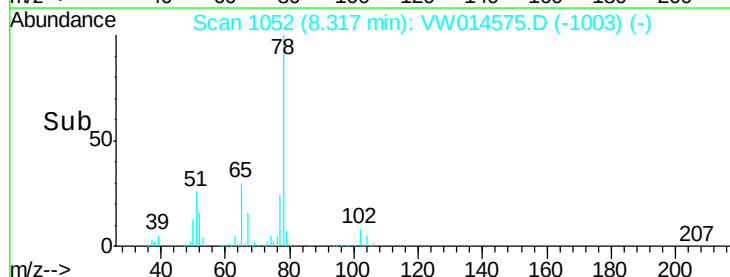
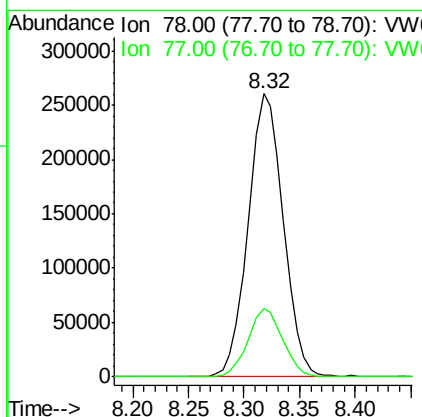
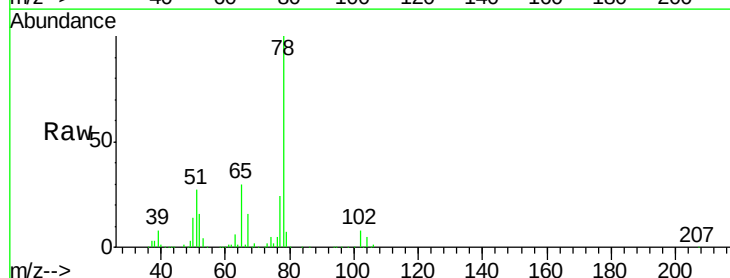
Manual Integrations
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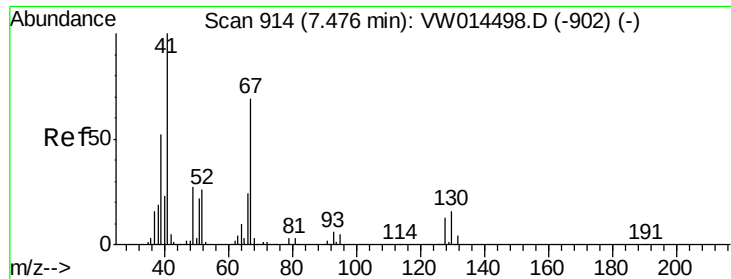
MMDadoda
1/10/2020 10:41:00 AM



#40
Benzene
Concen: 18.742 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9





#41

Methacrylonitrile

Concen: 16.472 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 41 Resp: 44990

Ion Ratio Lower Upper

41 100

39 57.8 46.0 69.0

67 82.4 60.8 91.2

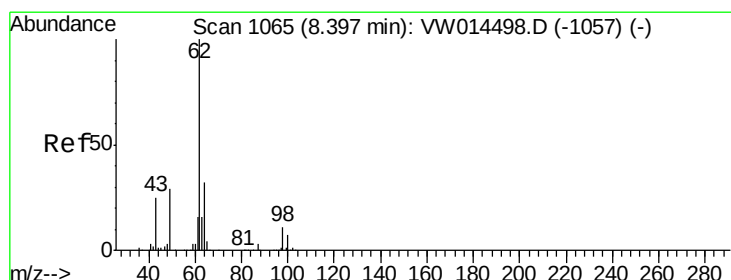
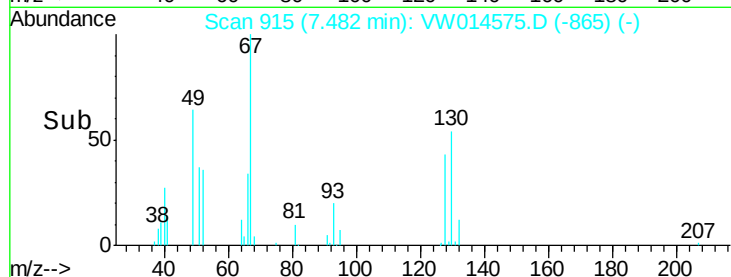
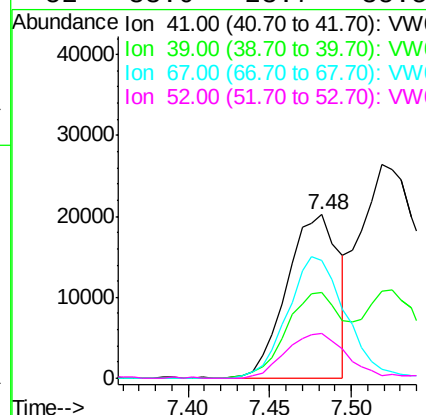
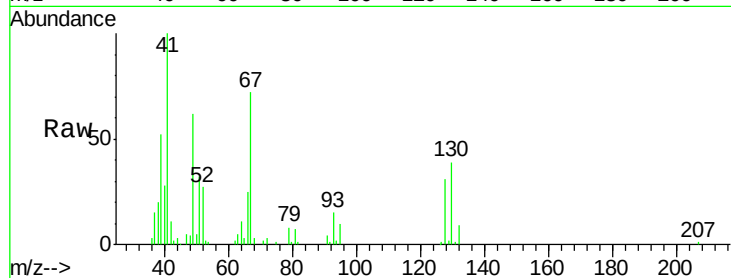
52 33.0 23.7 35.5

Manual Integrations

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#42

1,2-Dichloroethane

Concen: 18.137 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014575.D

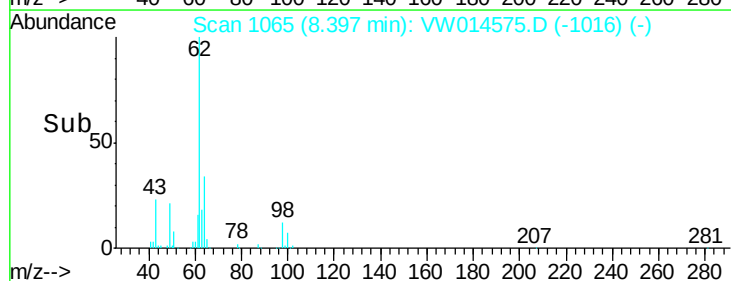
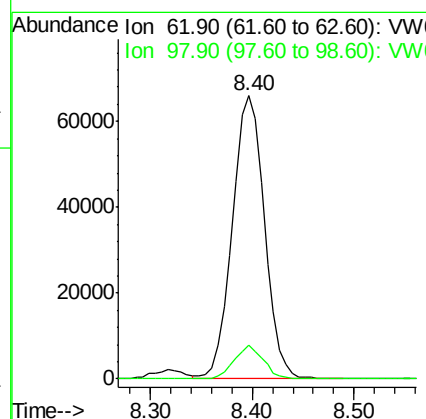
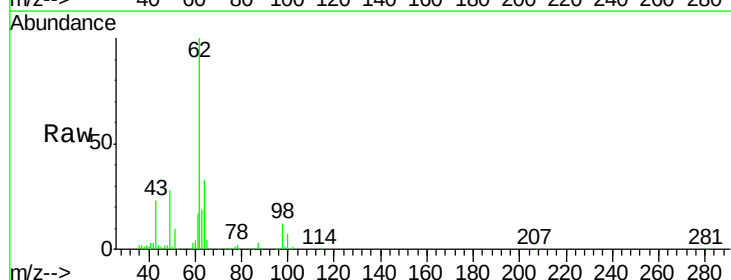
Acq: 09 Jan 2020 12:06

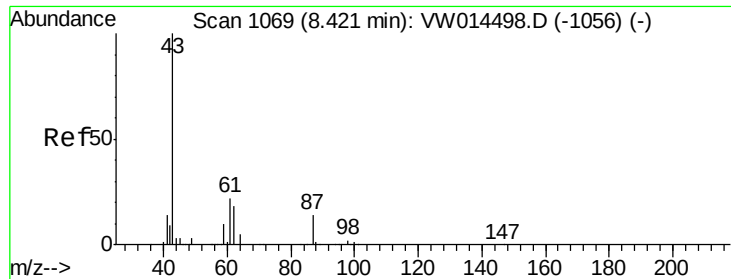
Tgt Ion: 62 Resp: 143874

Ion Ratio Lower Upper

62 100

98 10.7 0.0 22.0





#43

Isopropyl Acetate

Concen: 17.391 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

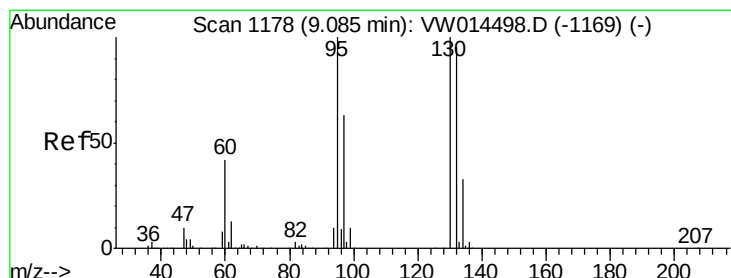
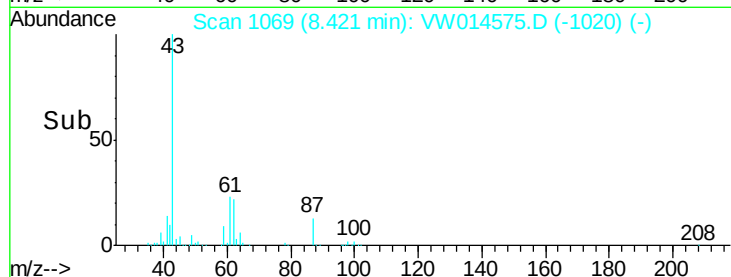
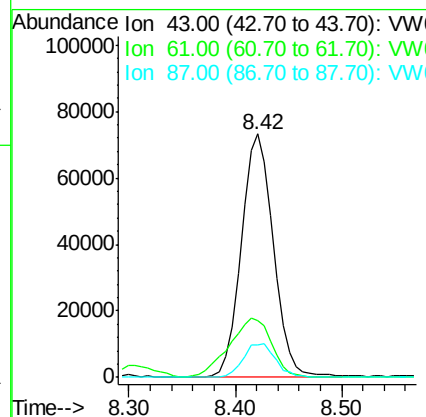
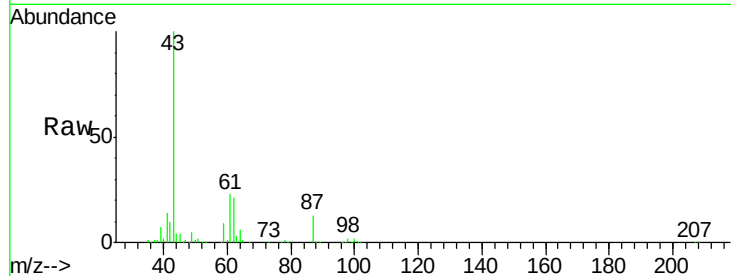
ClientSampleId :

VW0109SBS01

Tot Ion:	43	Resp:	154736
Ion	Ratio	Lower	Upper
43	100		
61	31.7	24.7	37.1
87	14.1	11.1	16.7

Manual Integrations
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1/10/2020 10:41:00 AM



#44

Trichloroethene

Concen: 18.531 ug/l

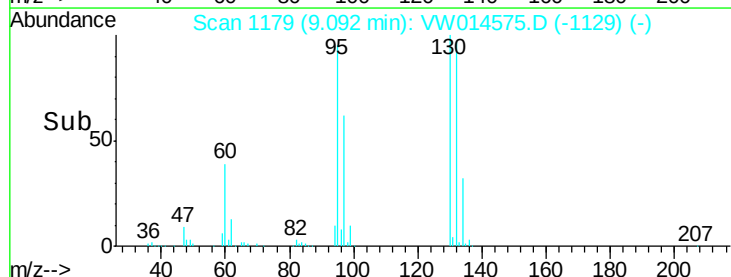
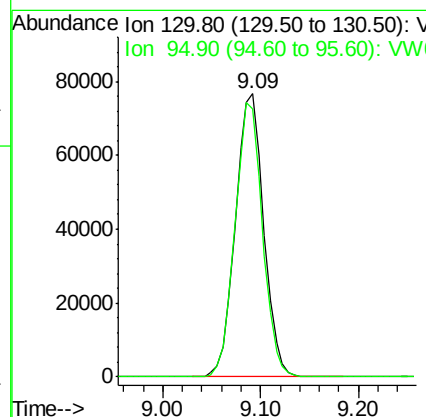
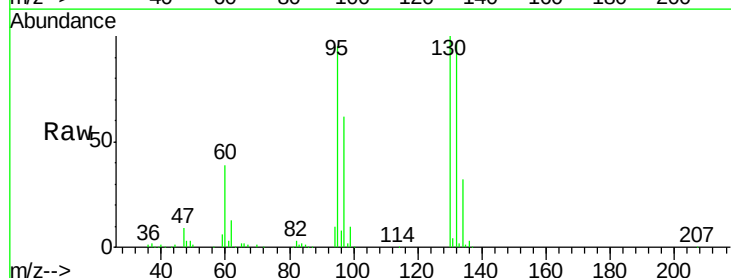
RT: 9.09 min Scan# 1179

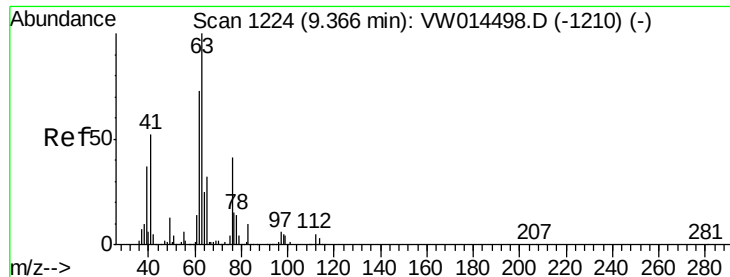
Delta R.T. 0.01 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion:	130	Resp:	153273
Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	199.4





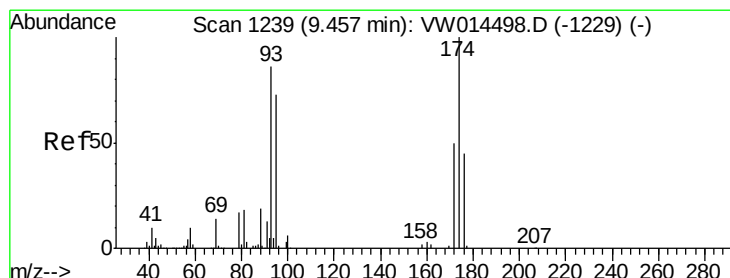
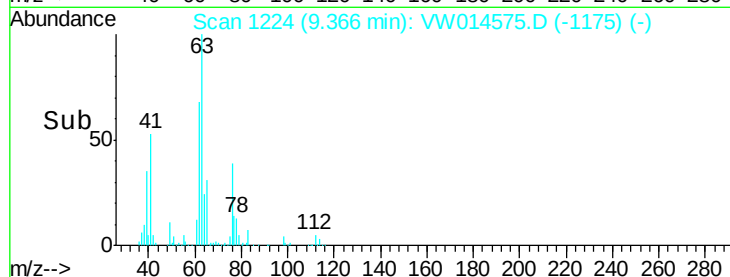
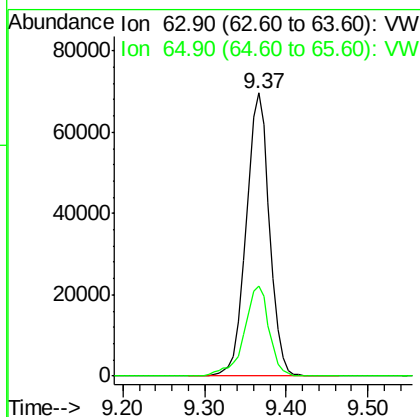
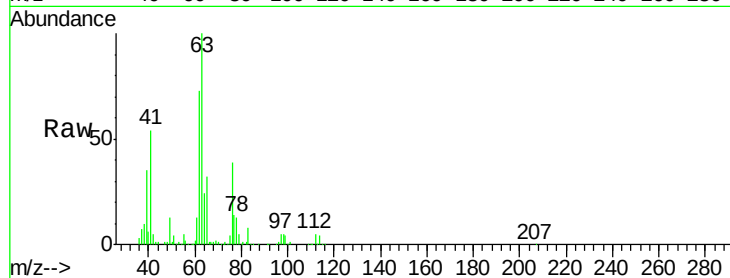
#45
 1,2-Dichloropropane
 Concen: 18.488 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0109SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.6	38.4

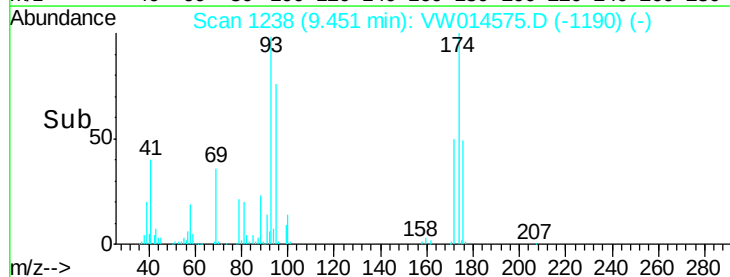
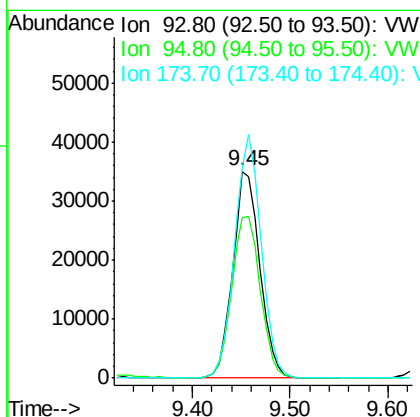
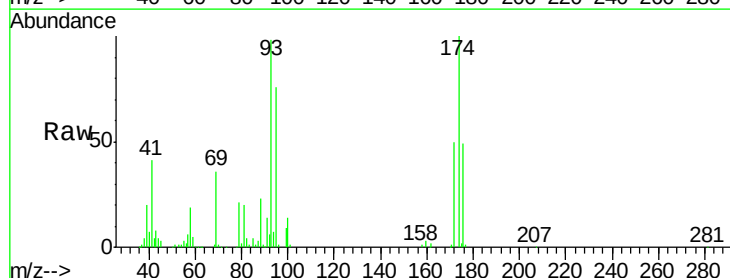
Manual Integrations
 APPROVED

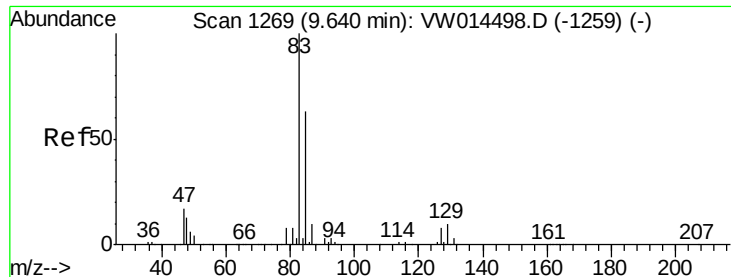
MMDadoda
 1/10/2020 10:41:00 AM



#46
 Dibromomethane
 Concen: 18.218 ug/l
 RT: 9.45 min Scan# 1238
 Delta R.T. -0.01 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.4	99.6
174	115.3	89.1	133.7





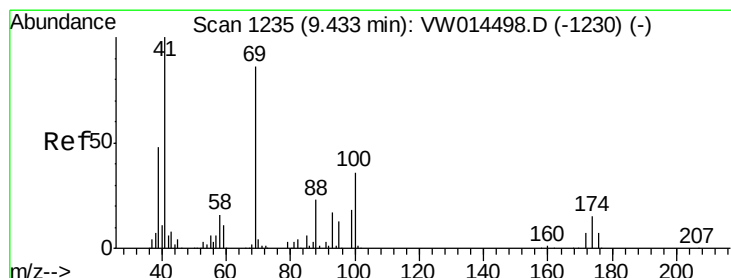
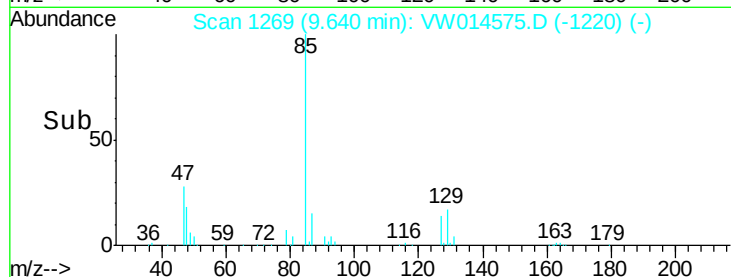
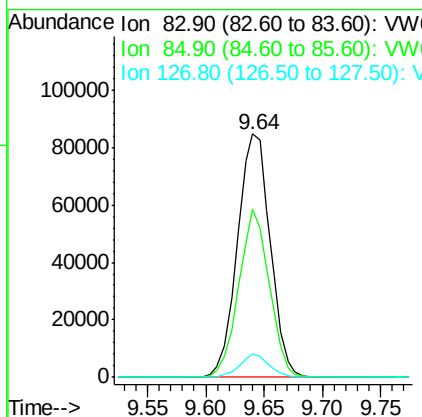
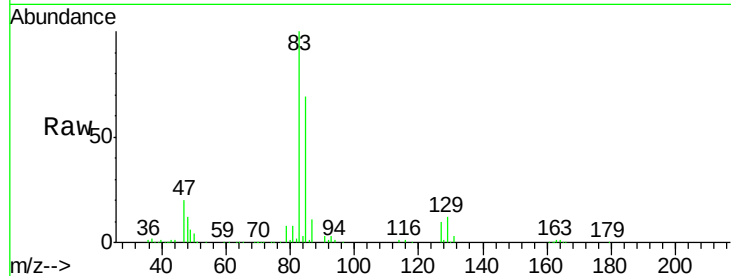
#47
Bromodichloromethane
Concen: 18.177 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	83	Resp	166182
Ion Ratio	100	Lower	Upper
83	100		
85	69.1	50.6	76.0
127	9.6	6.6	9.8

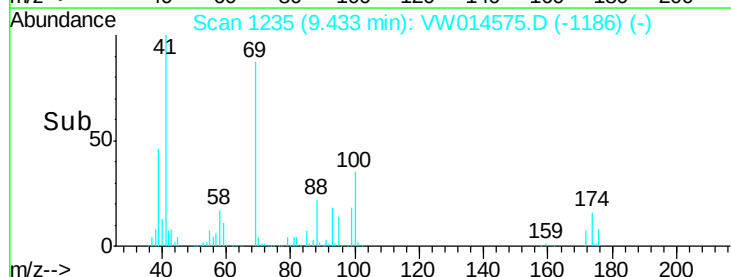
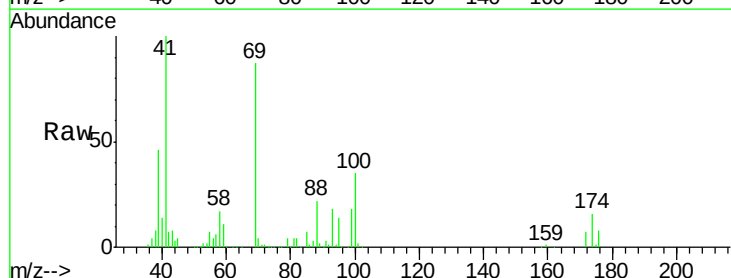
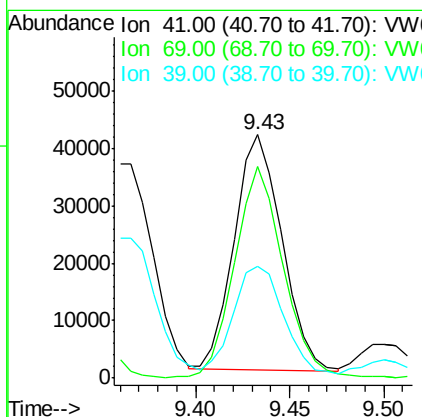
Manual Integrations
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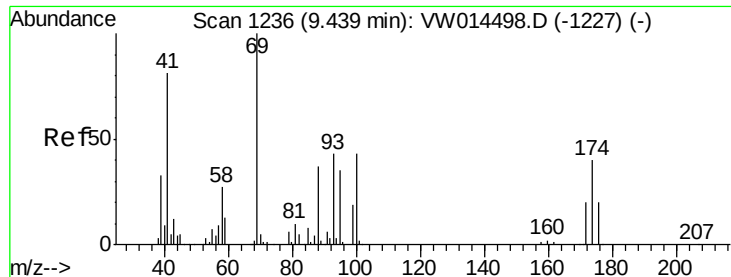
MMDadoda
1/10/2020 10:41:00 AM



#48
Methyl methacrylate
Concen: 16.559 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	41	Resp	71934
Ion Ratio	100	Lower	Upper
41	100		
69	91.5	68.3	102.5
39	47.9	36.8	55.2





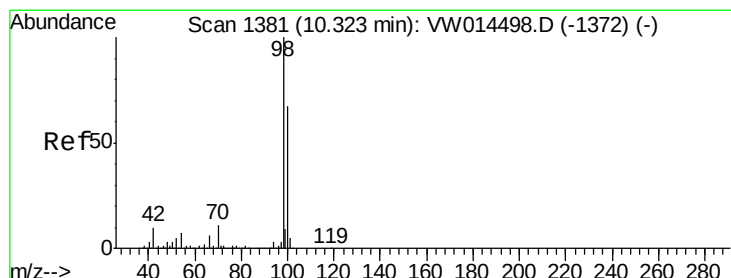
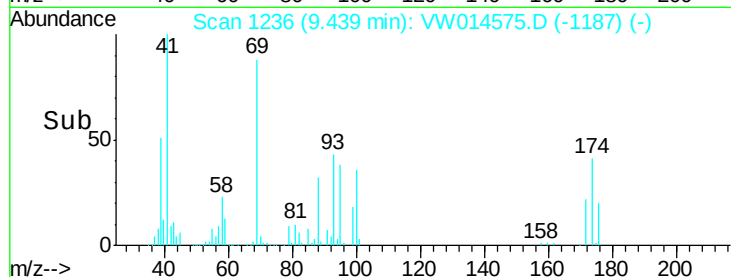
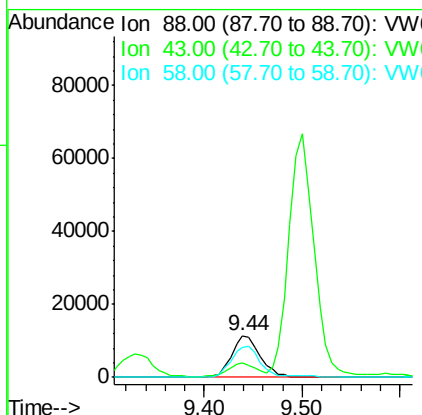
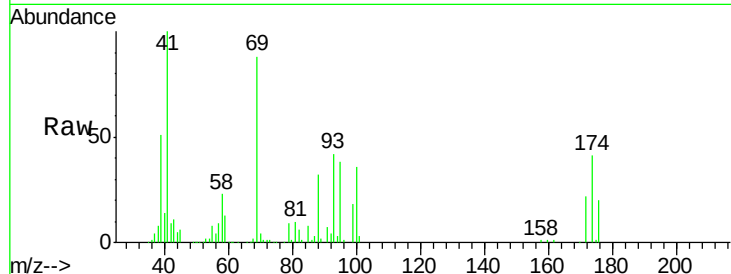
#49
1,4-Dioxane
Concen: 338.138 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.0	24.9	37.3
58	74.7	56.9	85.3

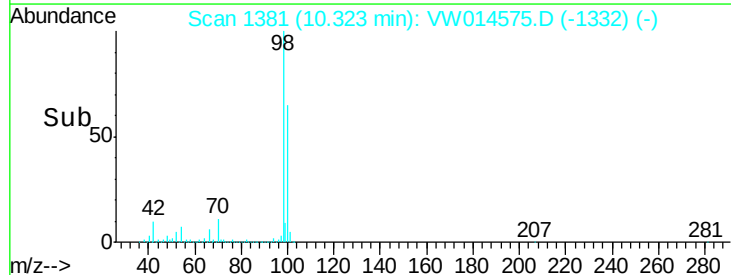
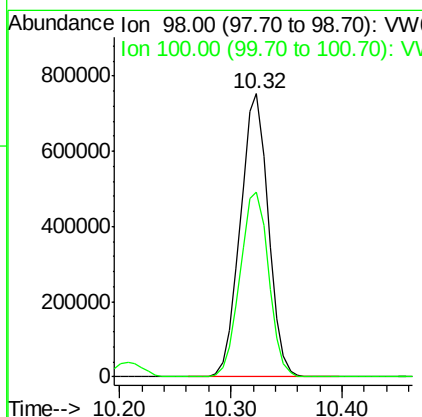
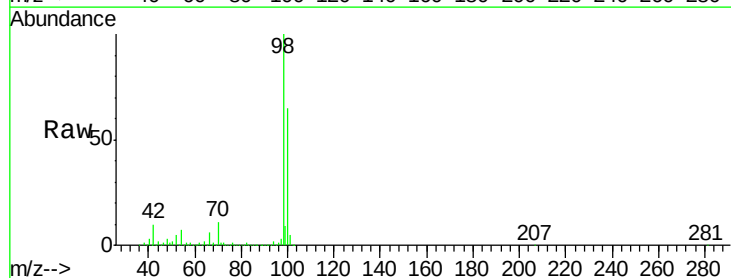
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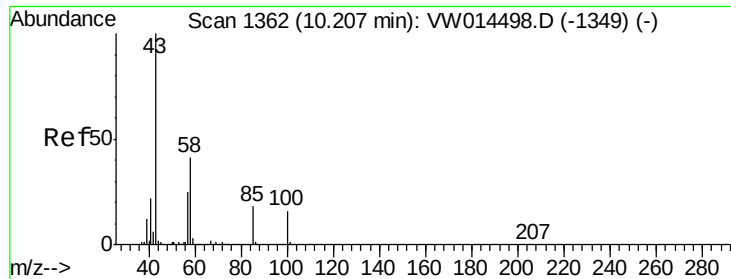
MMDadoda
1/10/2020 10:41:00 AM



#50
Toluene-d8
Concen: 49.118 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.8	80.6





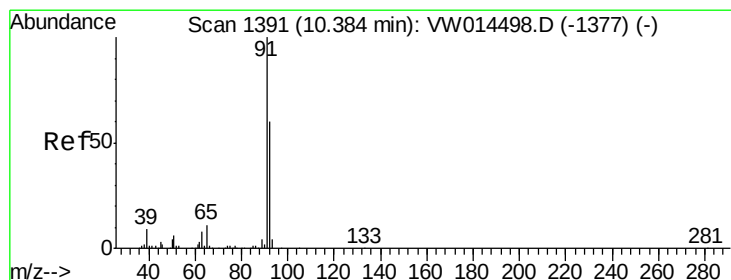
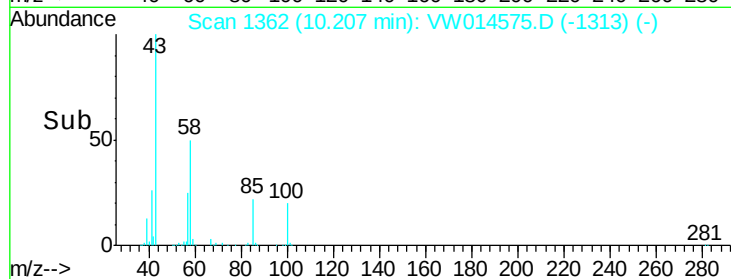
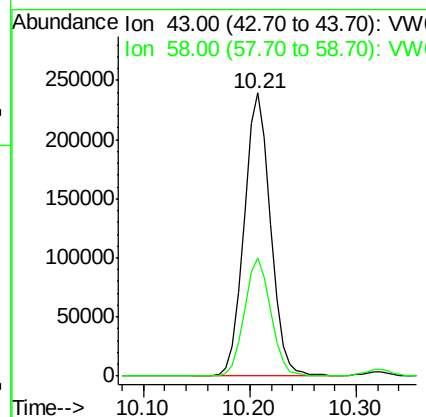
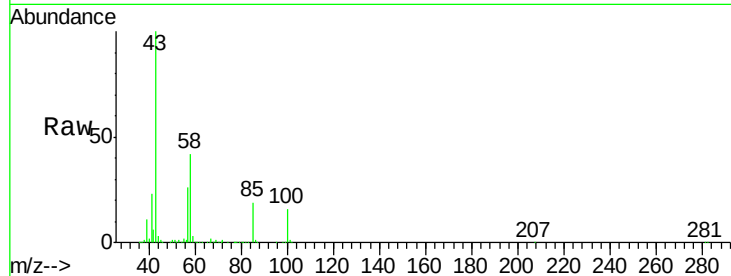
#51
4-Methyl-2-Pentanone
Concen: 90.120 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	43	Resp	416399
Ion Ratio	100	Lower	Upper
43	100		
58	41.8	32.7	49.1

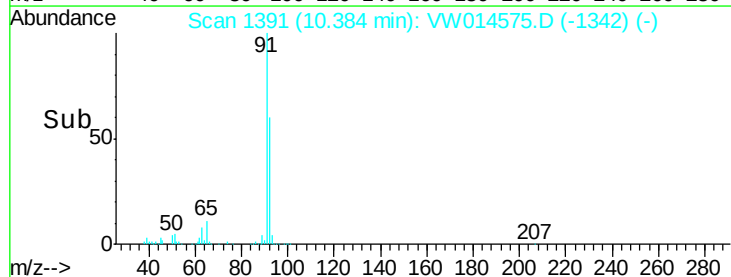
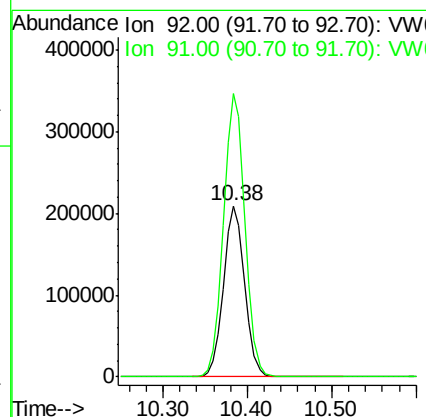
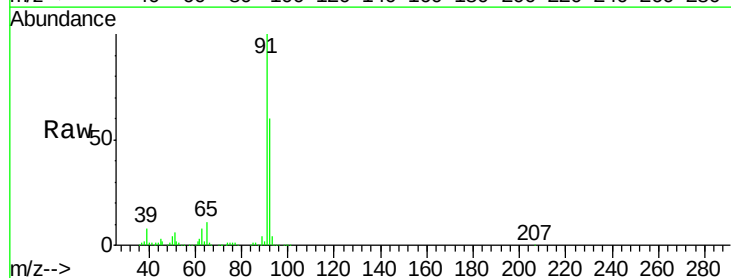
Manual Integrations
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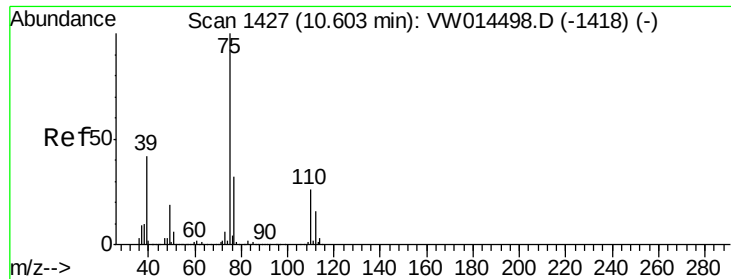
MMDadoda
1/10/2020 10:41:00 AM



#52
Toluene
Concen: 18.797 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	92	Resp	361474
Ion Ratio	100	Lower	Upper
92	100		
91	167.9	134.1	201.1





#53

t-1,3-Dichloropropene

Concen: 18.105 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 75 Resp: 171381

Ion Ratio Lower Upper

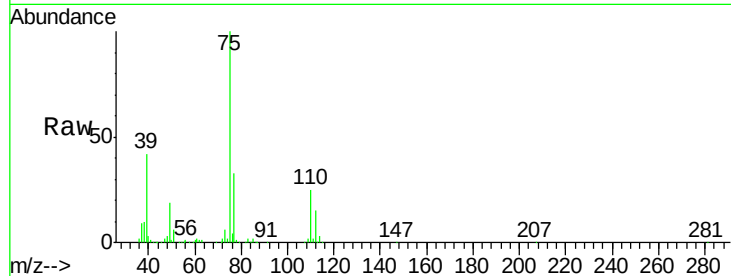
75 100

77 32.2 25.4 38.2

Manual Integrations
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MMDadoda

1/10/2020 10:41:00 AM



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

120000

100000

80000

60000

40000

20000

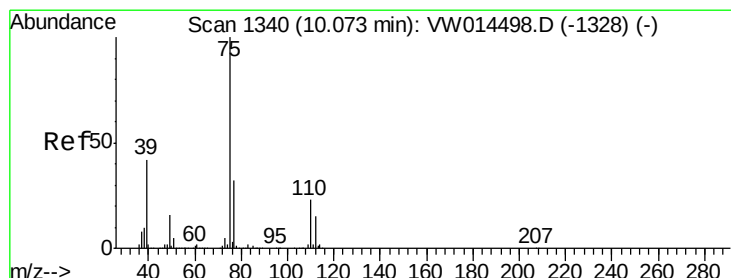
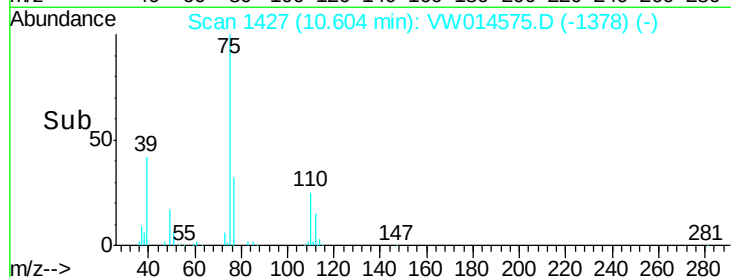
0

10.50

10.60

10.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 18.465 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

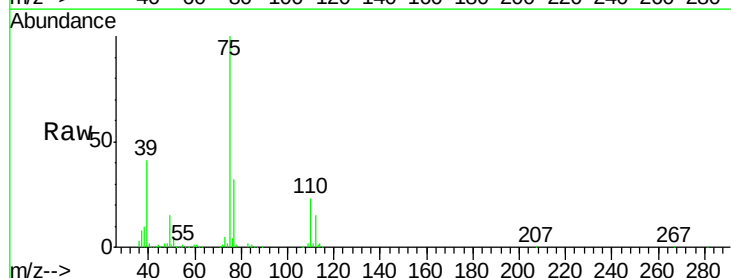
Tgt Ion: 75 Resp: 213616

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0

39 41.0 33.4 50.2



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

150000

100000

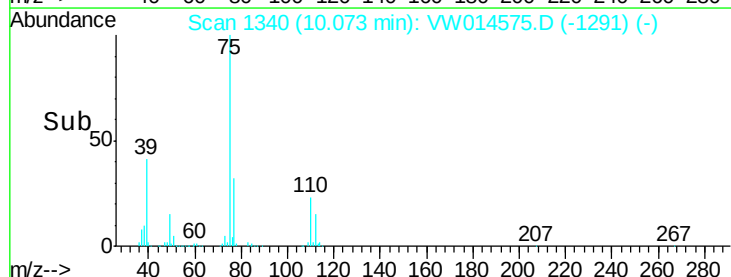
50000

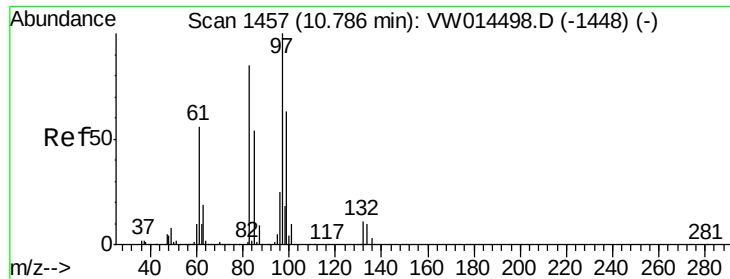
0

10.00

10.10

Time-->





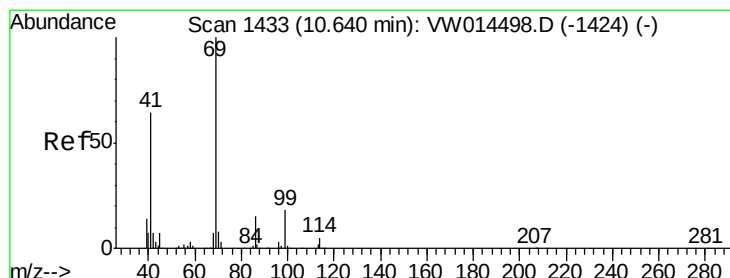
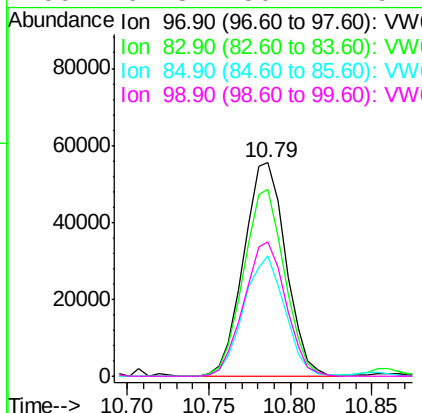
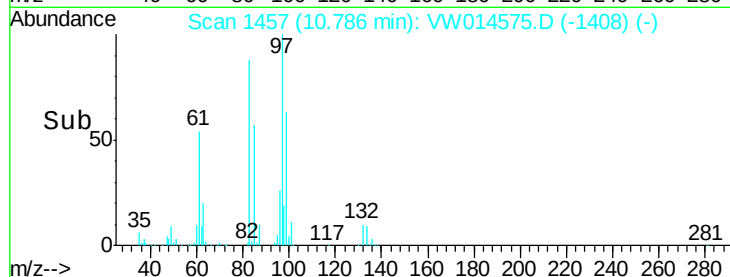
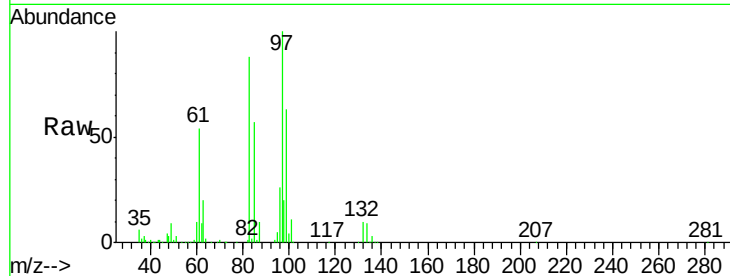
#55
 1,1,2-Trichloroethane
 Concen: 18.475 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0109SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		99916		
83	87.5	68.2	102.4		
85	56.5	43.0	64.4		
99	62.8	50.1	75.1		

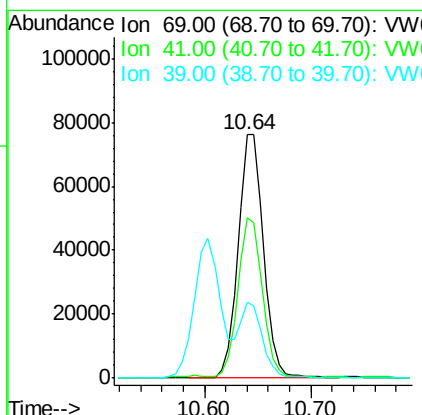
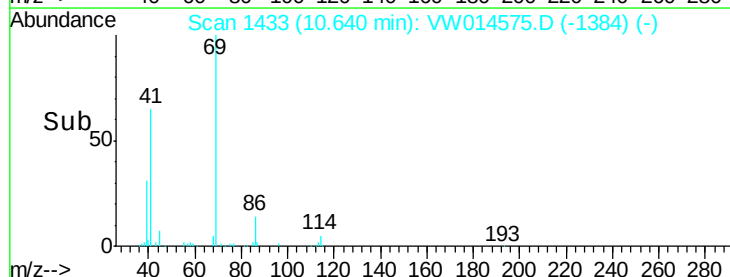
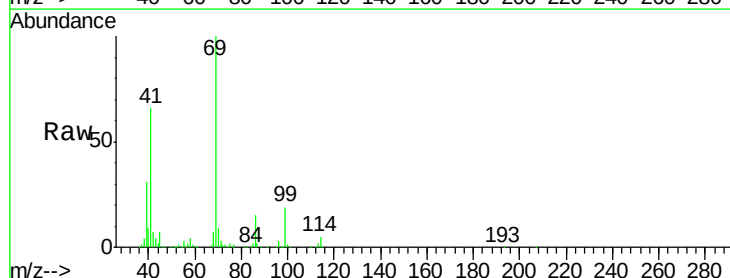
Manual Integrations
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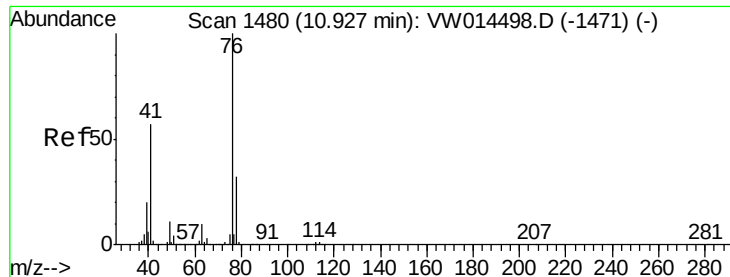
MMDadoda
 1/10/2020 10:41:00 AM



#56
 Ethyl methacrylate
 Concen: 18.182 ug/l
 RT: 10.64 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		127790		
41	62.8	51.3	76.9		
39	26.6	21.0	31.6		





#57

1,3-Dichloropropane

Concen: 18.461 ug/l

RT: 10.93 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 76 Resp: 175472

Ion Ratio Lower Upper

76 100

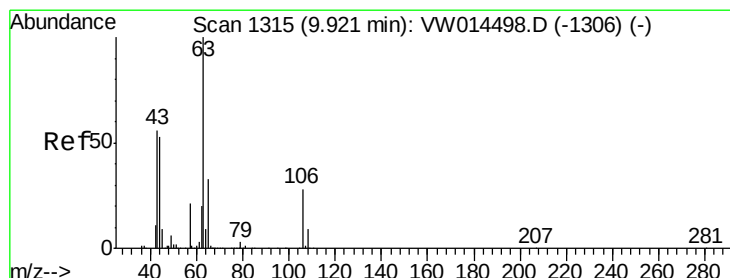
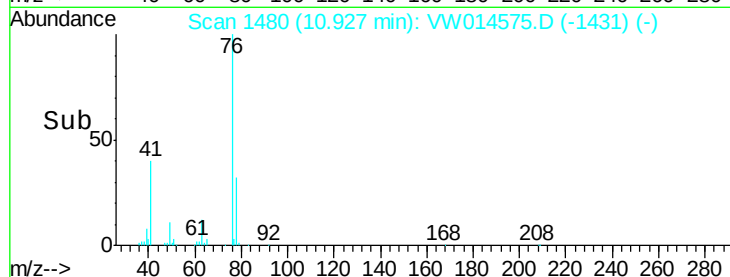
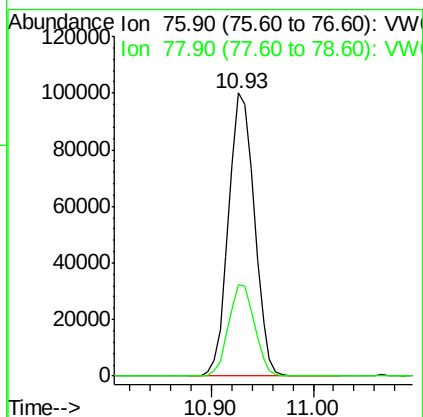
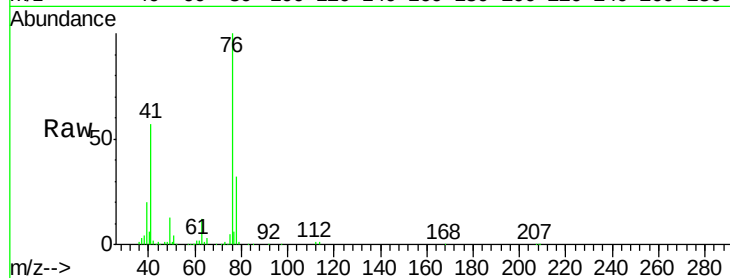
78 32.5 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

1/10/2020 10:41:00 AM



#58

2-Chloroethyl Vinyl ether

Concen: 92.495 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW014575.D

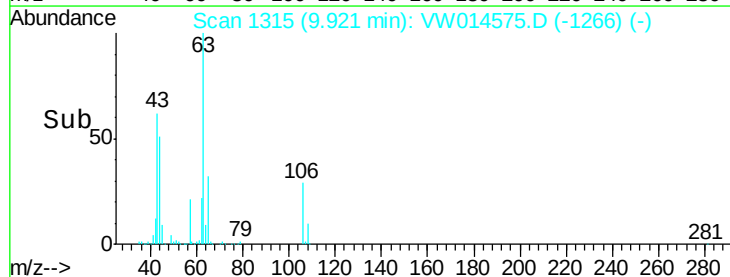
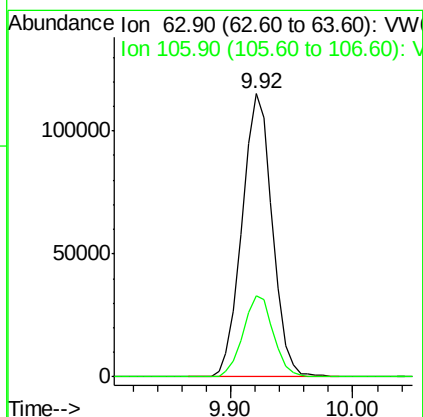
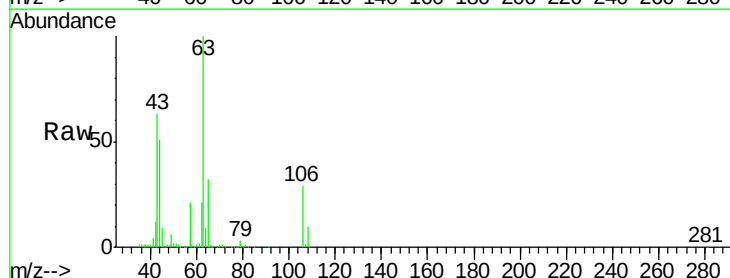
Acq: 09 Jan 2020 12:06

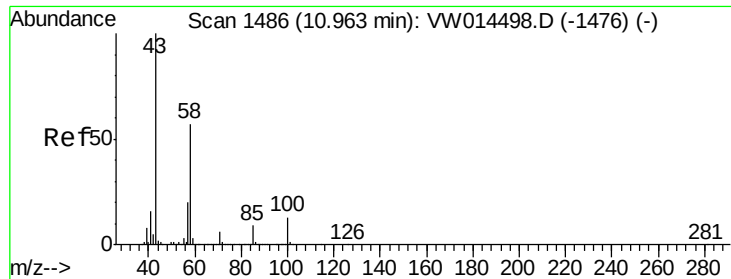
Tgt Ion: 63 Resp: 197715

Ion Ratio Lower Upper

63 100

106 28.7 23.0 34.6





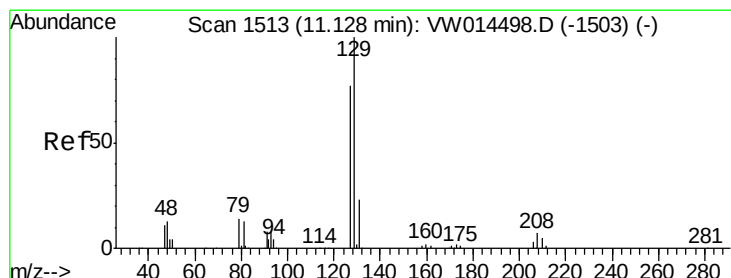
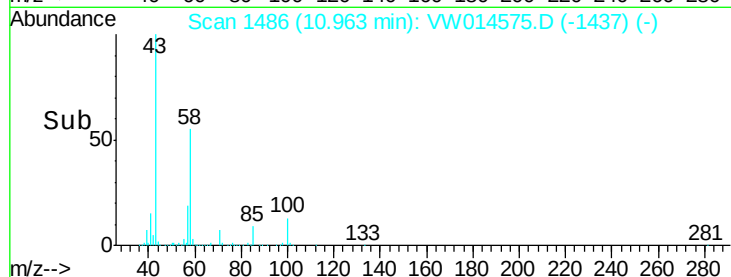
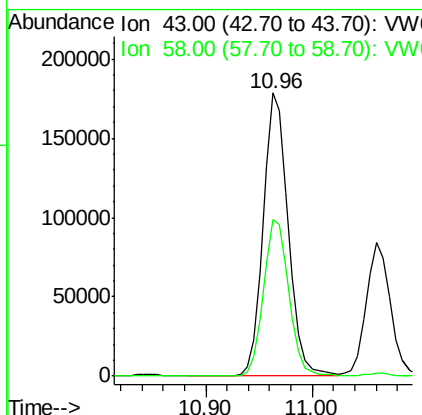
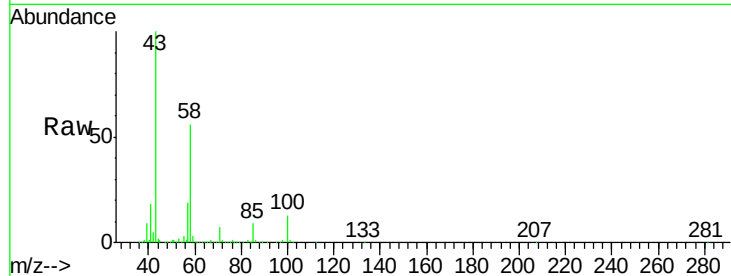
#59
2-Hexanone
Concen: 92.208 ug/l
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	43	Resp	293583
Ion Ratio	43	100	
Lower	58	56.2	28.7
Upper			86.3

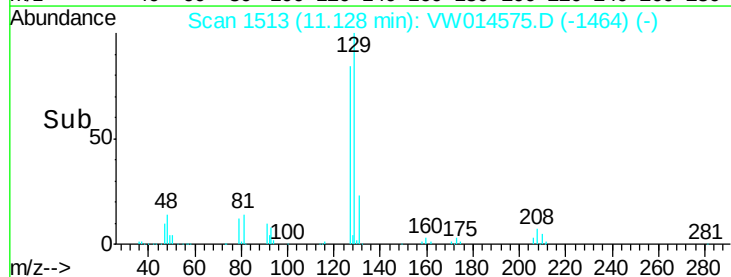
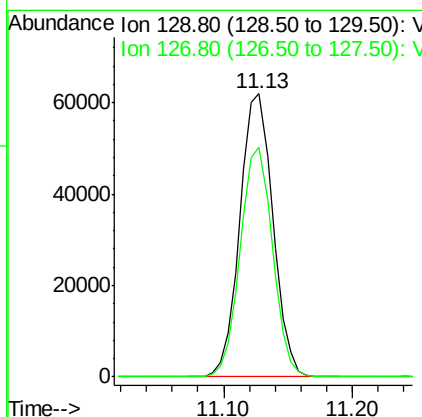
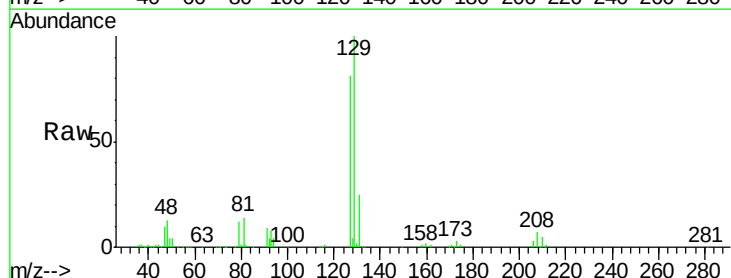
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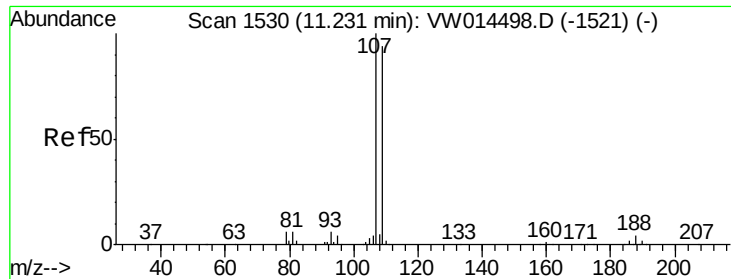
MMDadoda
1/10/2020 10:41:00 AM



#60
Dibromochloromethane
Concen: 18.019 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	129	Resp	109951
Ion Ratio	129	100	
Lower	127	79.2	38.1
Upper			114.5





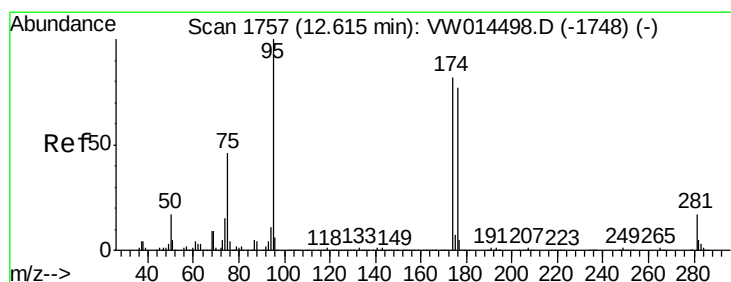
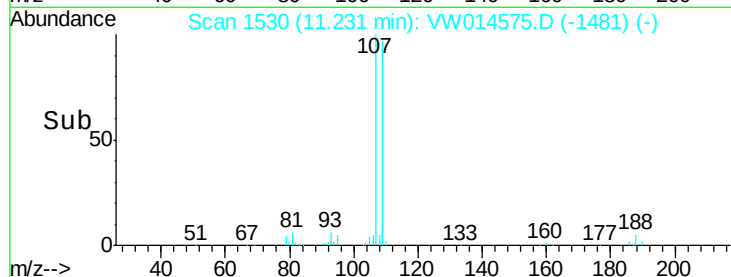
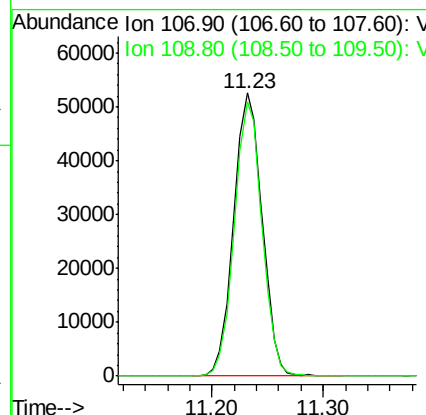
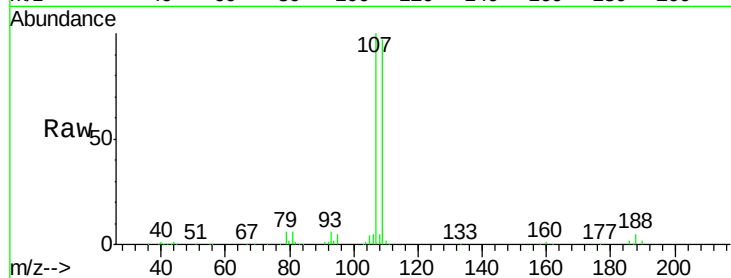
#61
1,2-Dibromoethane
Concen: 18.152 ug/l
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBSD01

Tot Ion: 107 Resp: 93185
Ion Ratio Lower Upper
107 100
109 94.3 75.1 112.7

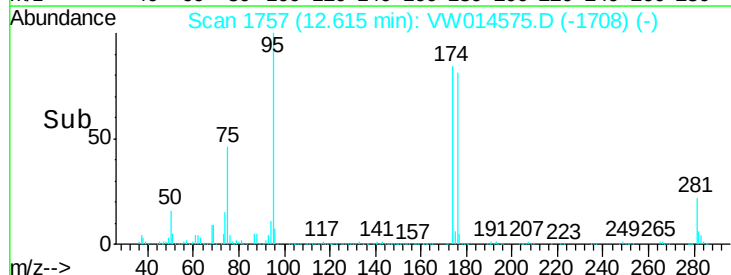
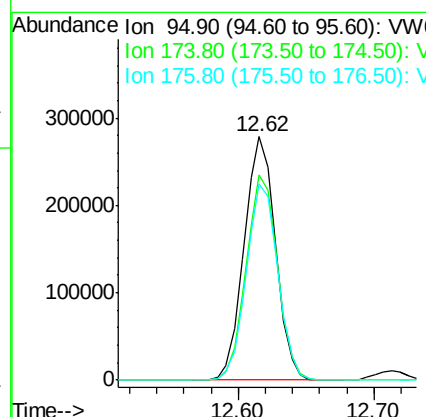
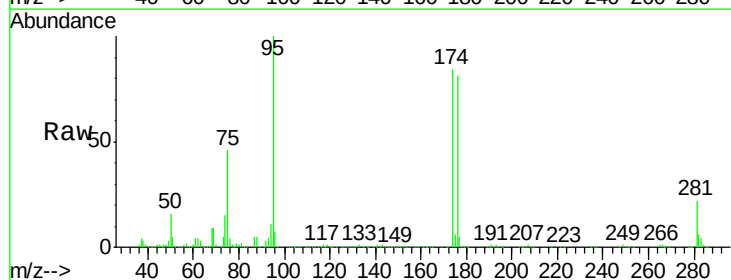
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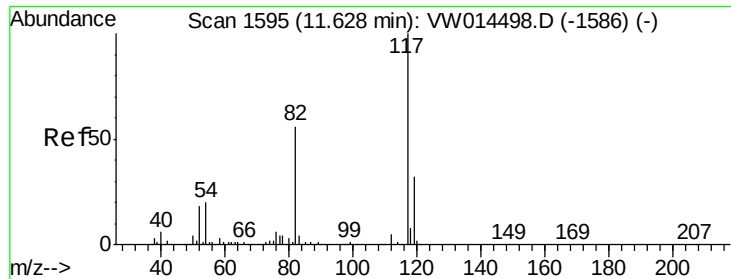
MMDadoda
1/10/2020 10:41:00 AM



#62
4-Bromofluorobenzene
Concen: 49.528 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion: 95 Resp: 449027
Ion Ratio Lower Upper
95 100
174 84.6 0.0 168.6
176 81.2 0.0 162.0





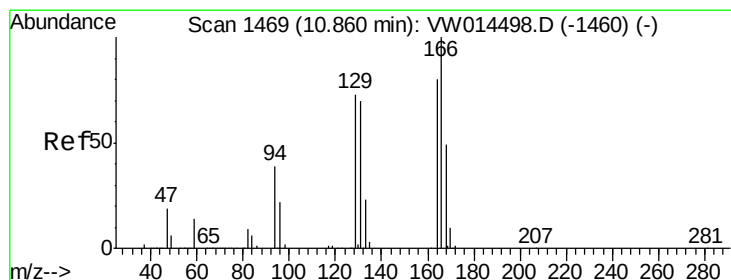
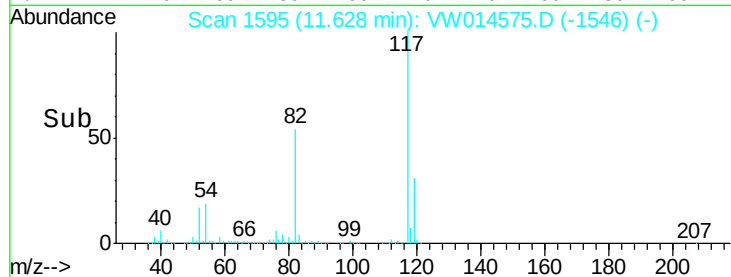
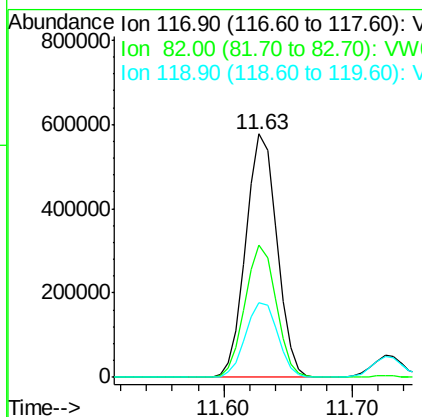
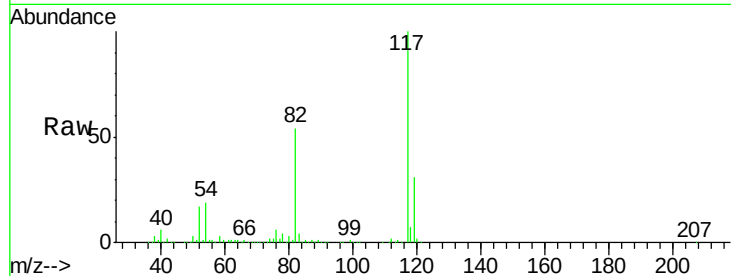
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	965531		
82	54.2		44.6	67.0
119	30.9		25.7	38.5

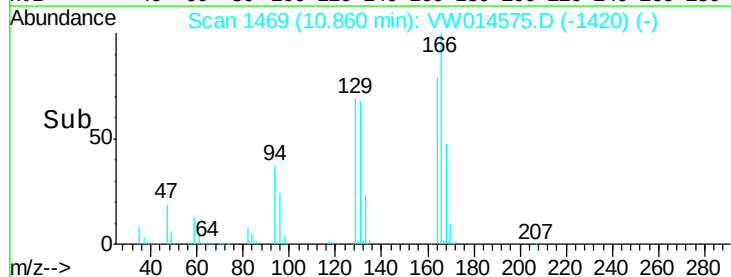
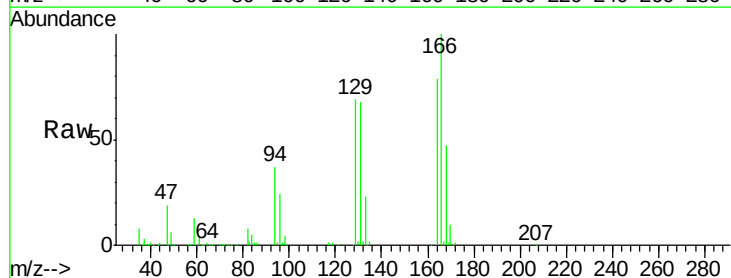
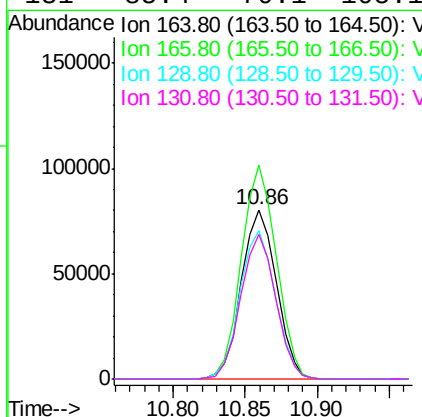
Manual Integrations
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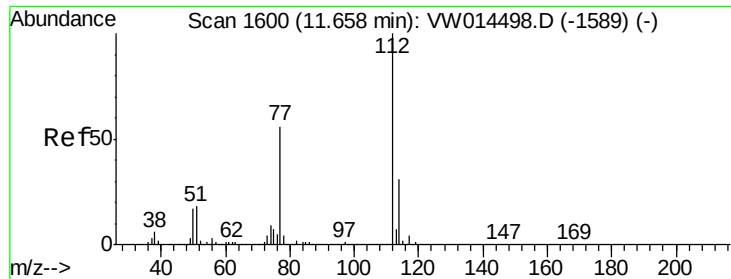
MMDadoda
1/10/2020 10:41:00 AM



#64
Tetrachloroethene
Concen: 19.369 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	135389		
166	125.9		99.8	149.6
129	87.4		72.4	108.6
131	85.4		70.1	105.1





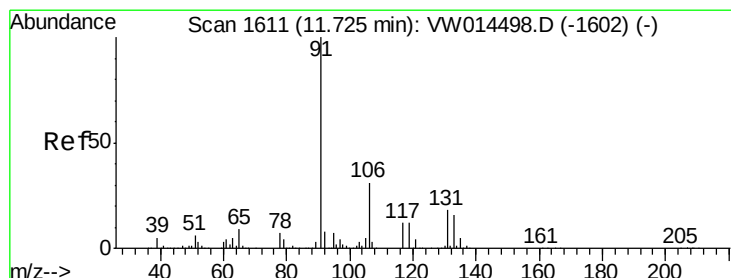
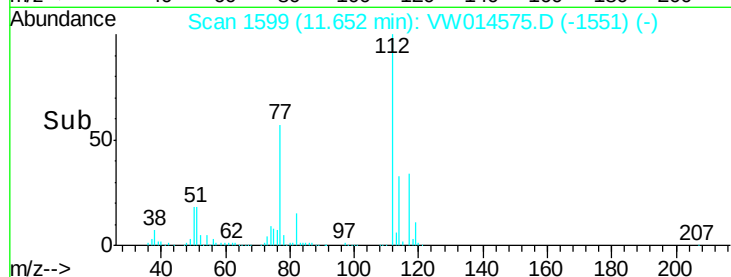
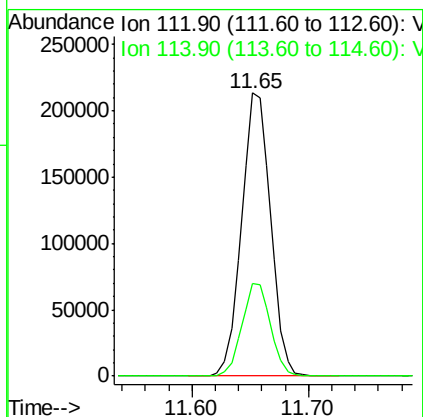
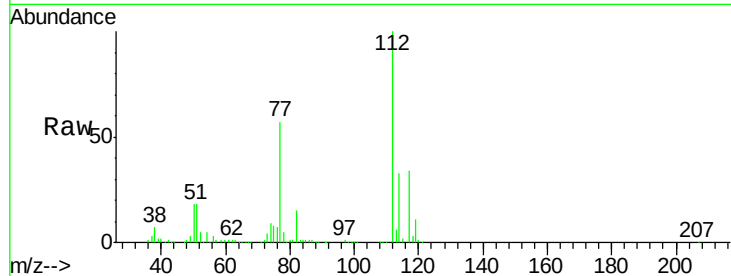
#65
Chlorobenzene
Concen: 18.788 ug/l
RT: 11.65 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBSD01

Tot Ion:112 Resp: 371639
Ion Ratio Lower Upper
112 100
114 32.6 24.6 37.0

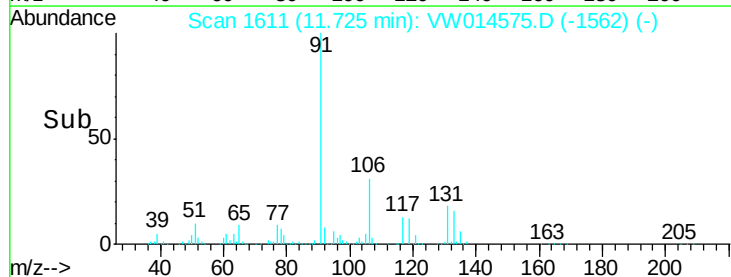
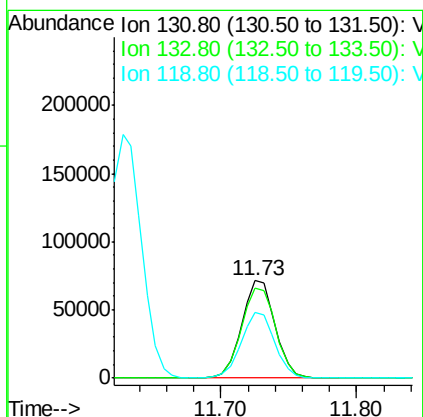
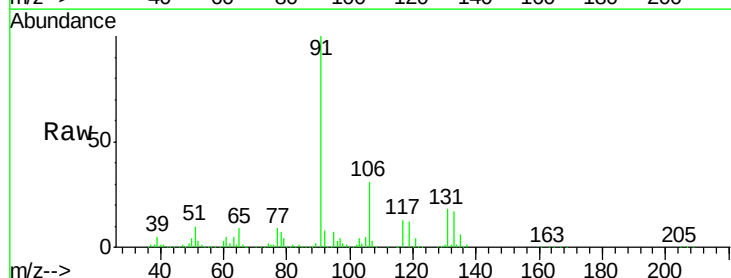
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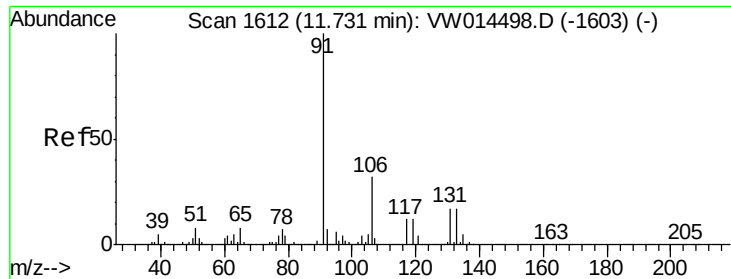
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#66
1,1,1,2-Tetrachloroethane
Concen: 18.340 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion:131 Resp: 122149
Ion Ratio Lower Upper
131 100
133 95.3 47.3 142.0
119 67.6 33.1 99.3





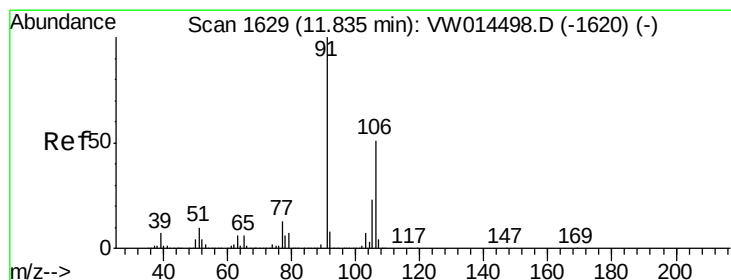
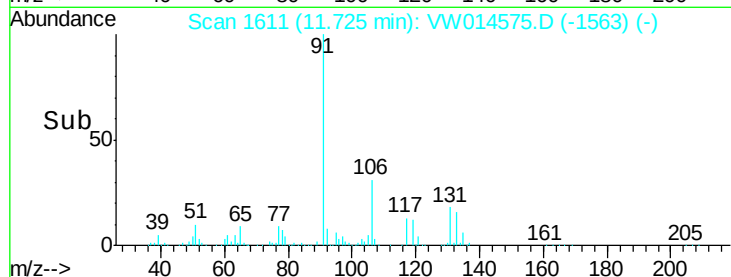
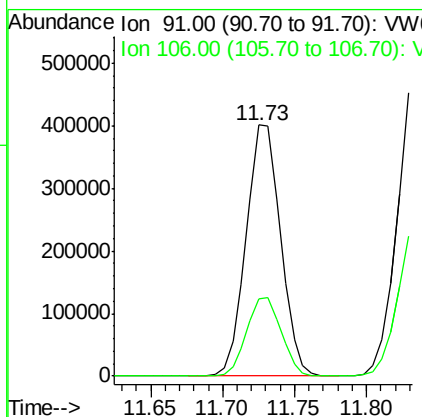
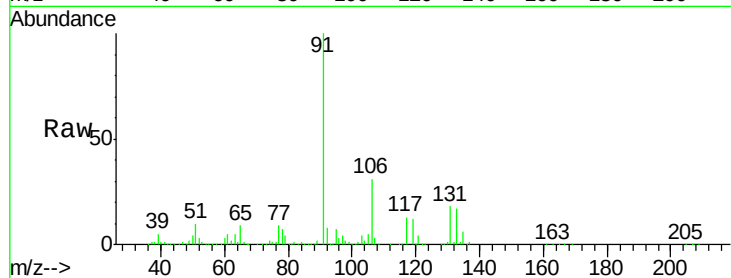
#67
Ethyl Benzene
Concen: 18.627 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion: 91 Resp: 664013
Ion Ratio Lower Upper
91 100
106 31.0 25.5 38.3

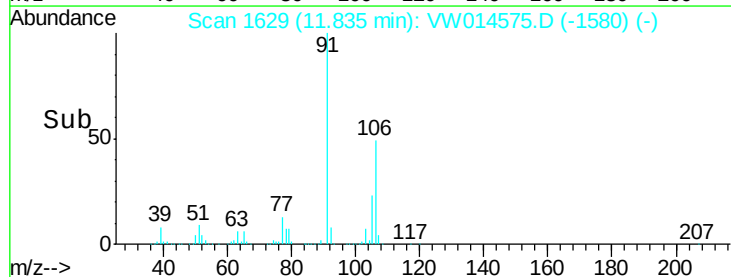
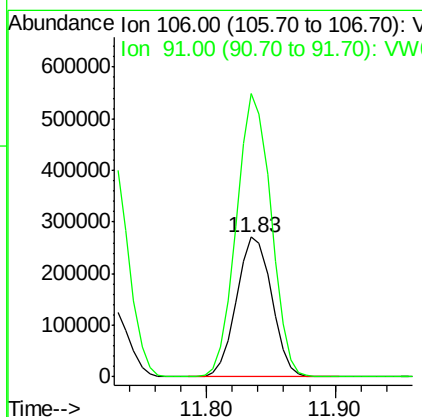
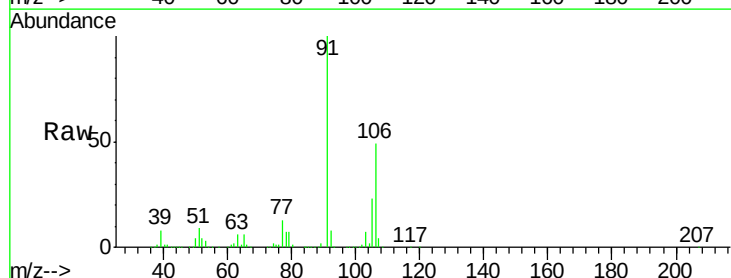
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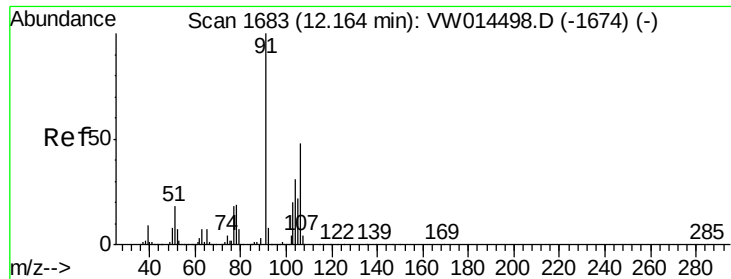
MMDadoda
1/10/2020 10:41:00 AM



#68
m/p-Xylenes
Concen: 37.544 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion: 106 Resp: 512227
Ion Ratio Lower Upper
106 100
91 199.4 159.0 238.6





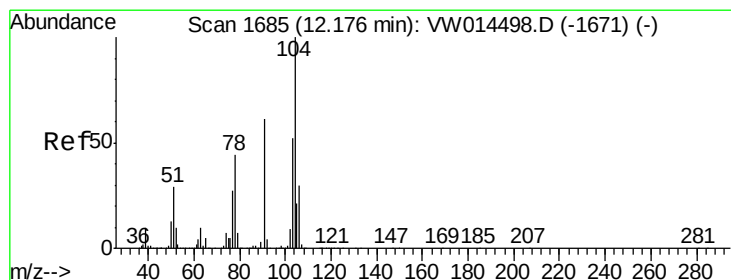
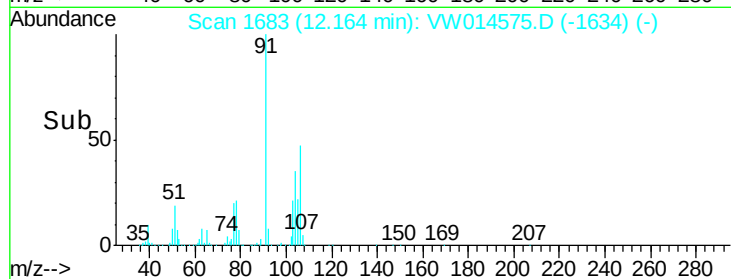
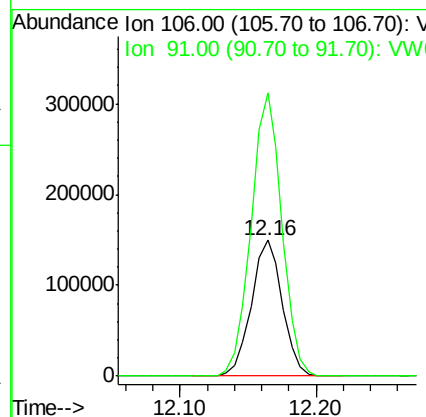
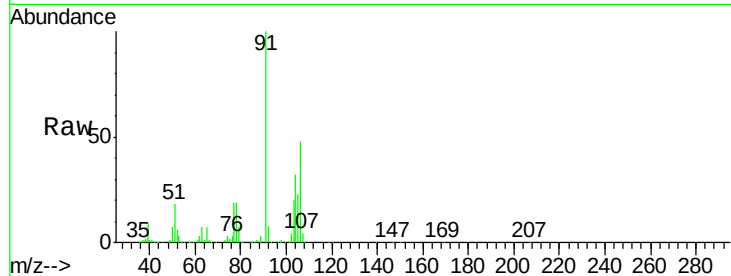
#69
o-Xylene
Concen: 18.897 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	207.2	105.2	315.6

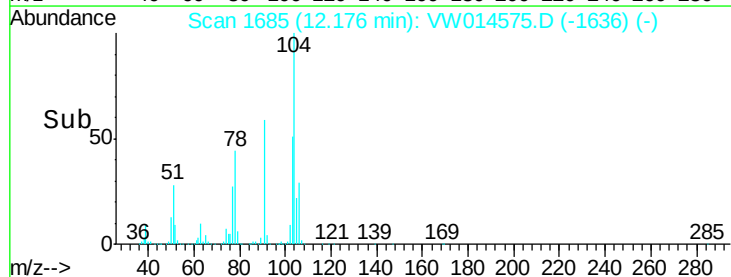
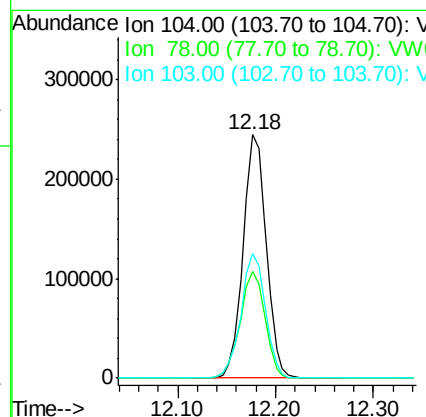
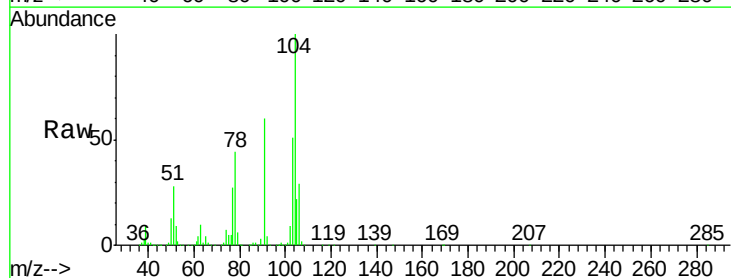
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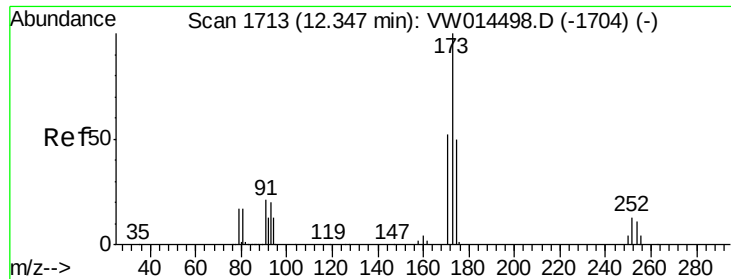
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#70
Styrene
Concen: 18.934 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.4	57.6
103	54.3	43.7	65.5





#71

Bromoform

Concen: 18.153 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion:173 Resp: 65946

Ion Ratio Lower Upper

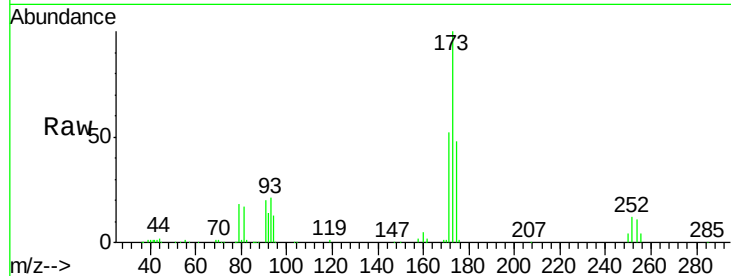
173 100

175 48.1 24.5 73.5

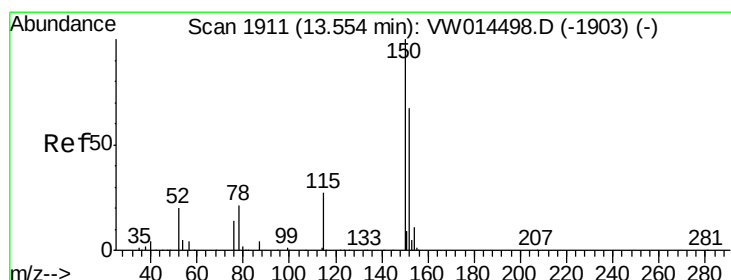
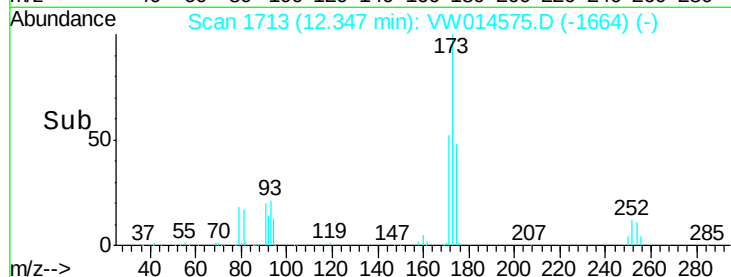
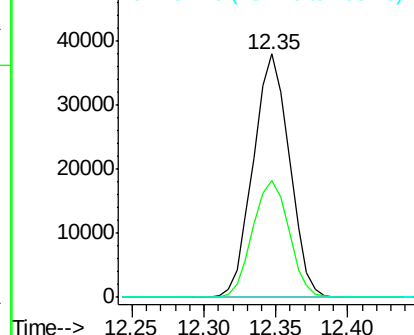
254 0.0 0.0 0.0

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

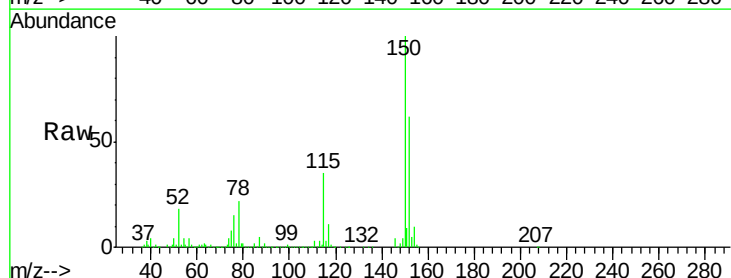
Tgt Ion:152 Resp: 486019

Ion Ratio Lower Upper

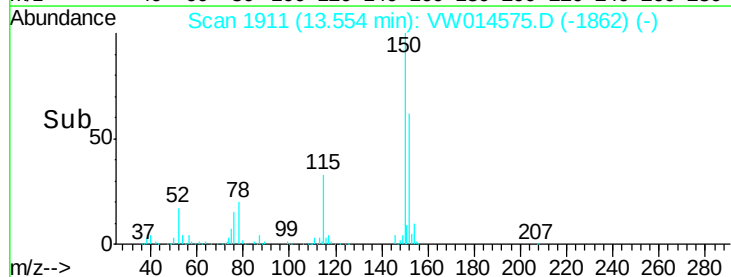
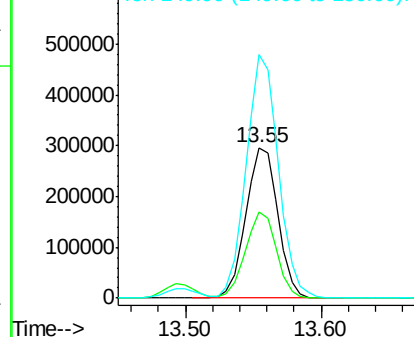
152 100

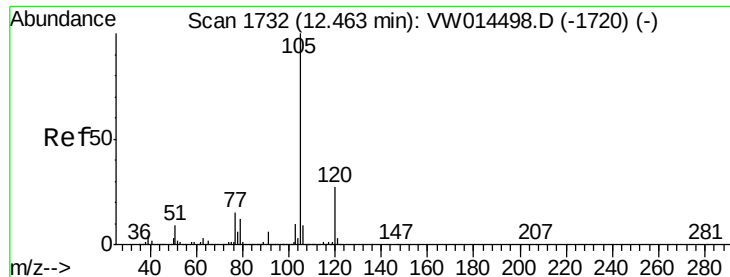
115 55.6 27.7 83.1

150 163.2 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.324 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion: 105 Resp: 653479

Ion Ratio Lower Upper

105 100

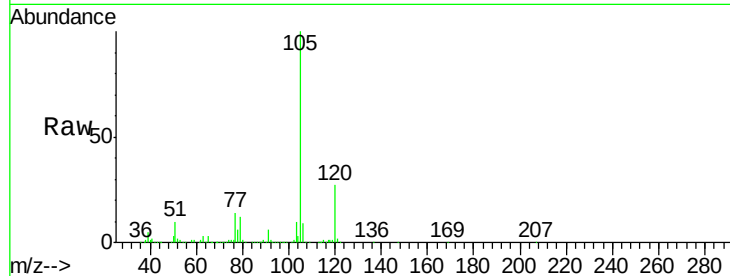
120 26.5 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

400000

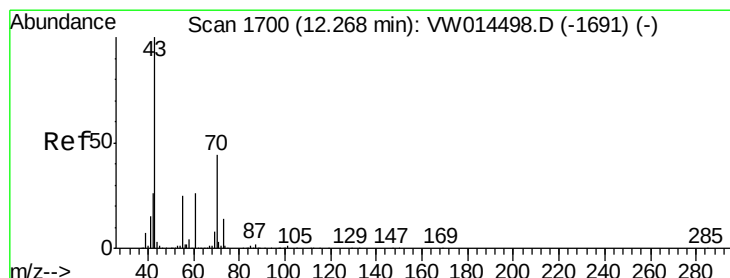
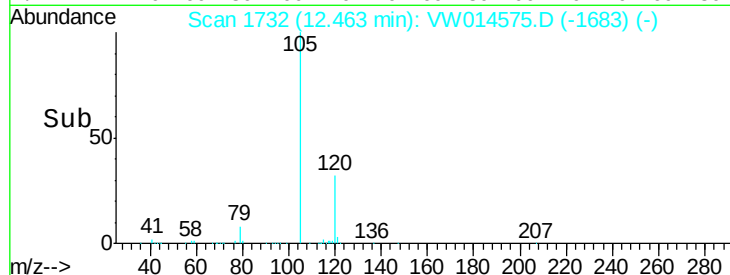
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 17.862 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion: 43 Resp: 142824

Ion Ratio Lower Upper

43 100

70 45.9 36.5 54.7

55 26.8 20.9 31.3

61 25.4 20.7 31.1

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

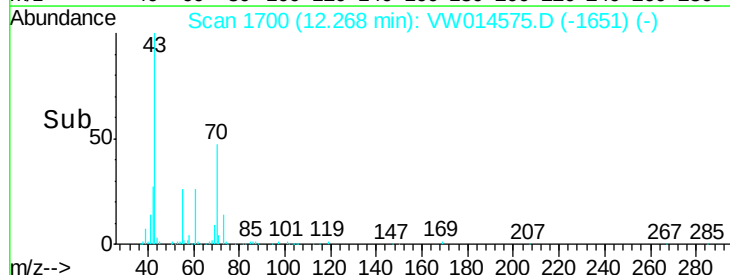
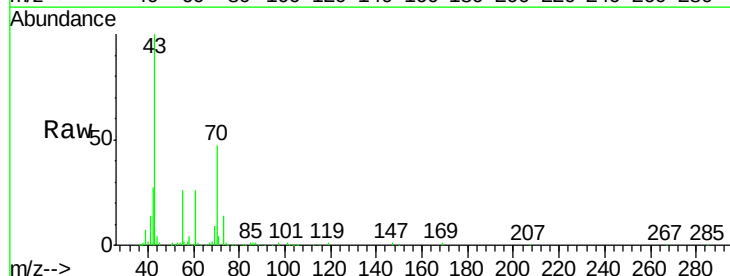
12.27

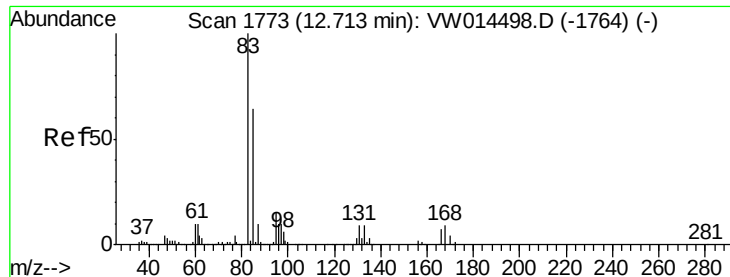
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 17.962 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

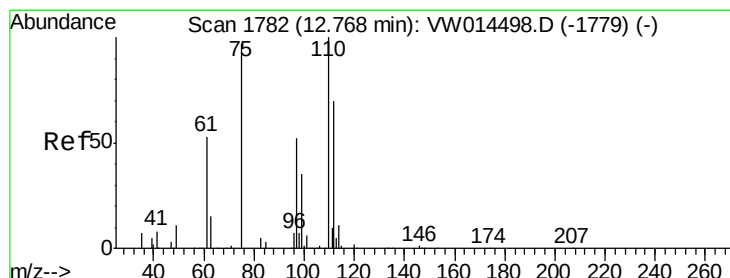
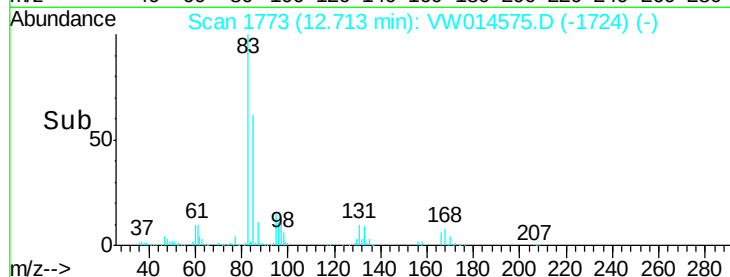
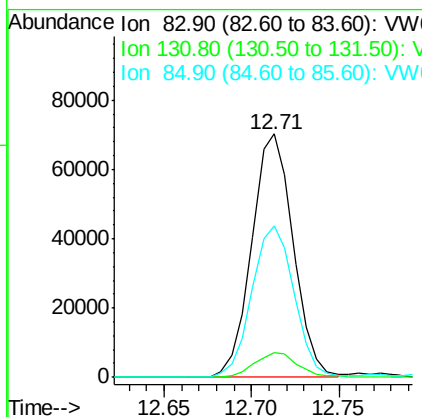
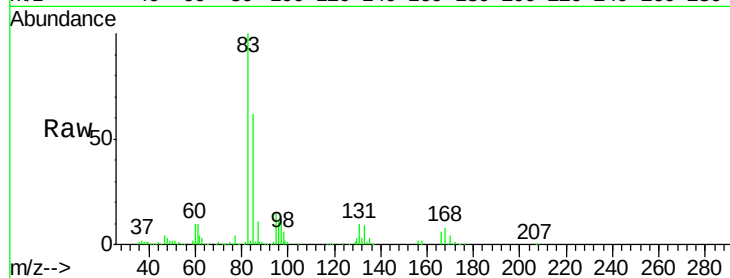
ClientSampleId :

VW0109SBSD01

Tot Ion:	83	Resp:	115620
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.1	15.4
85	63.4	31.9	95.7

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#76

1,2,3-Trichloropropane

Concen: 19.308 ug/l m

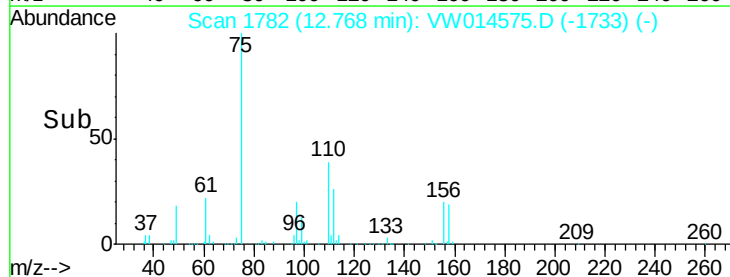
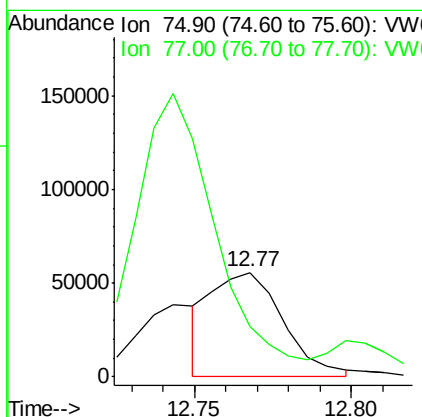
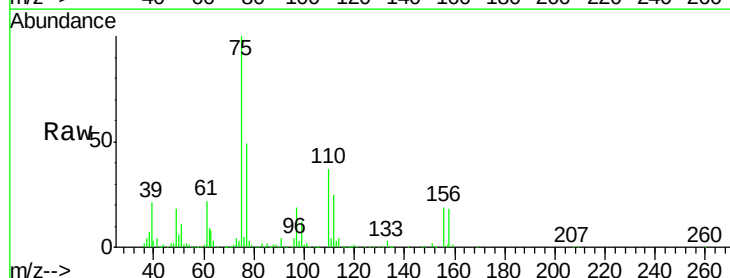
RT: 12.77 min Scan# 1782

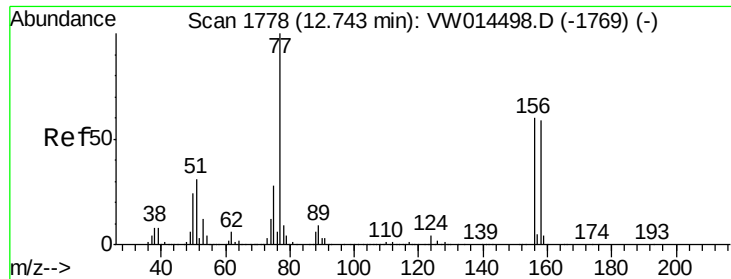
Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion:	75	Resp:	88724
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.771 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

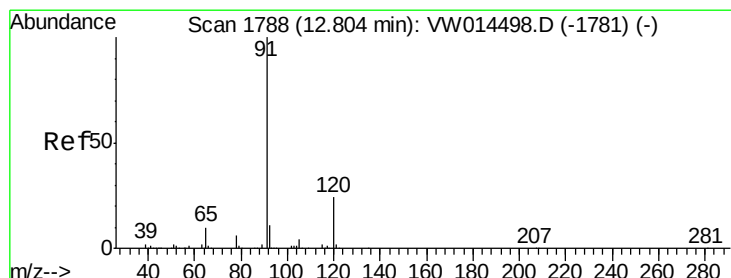
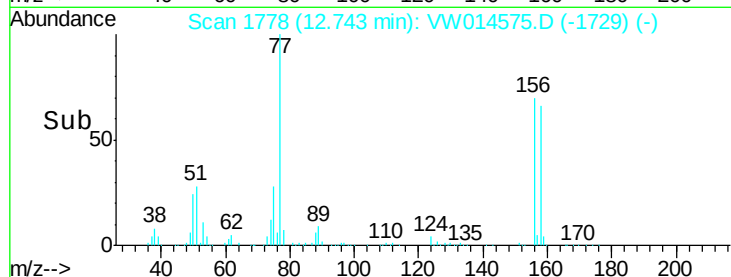
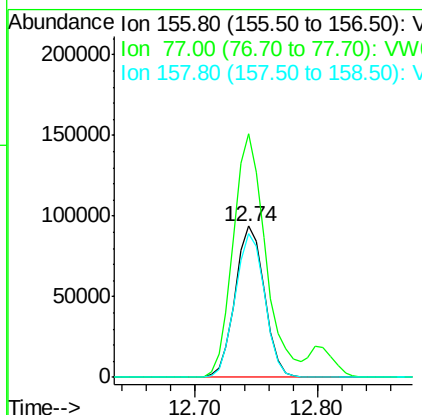
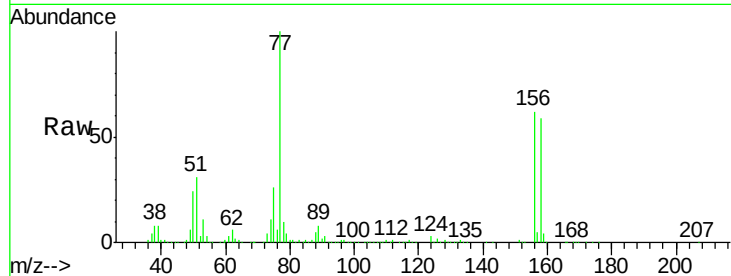
ClientSampleId :

VW0109SBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	177.5	92.3	277.1
158	95.8	48.6	145.9

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#78

n-propylbenzene

Concen: 18.600 ug/l

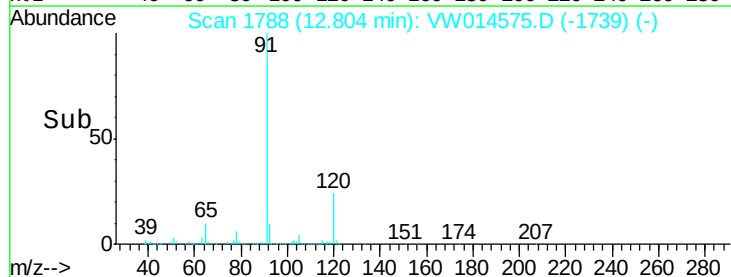
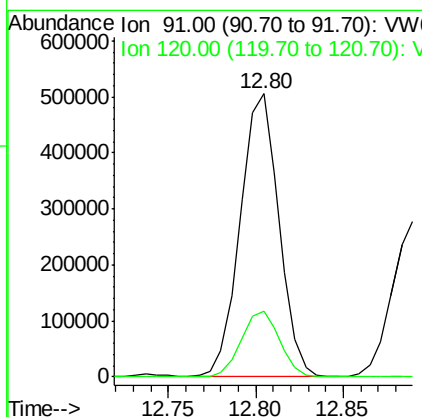
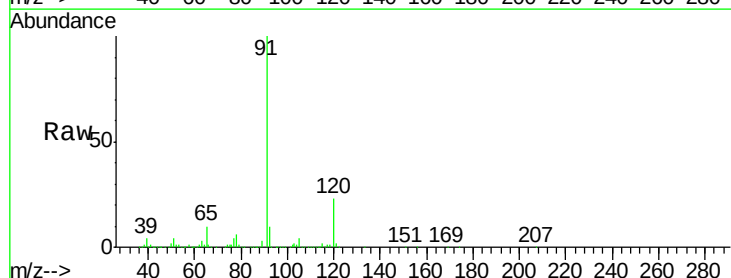
RT: 12.80 min Scan# 1788

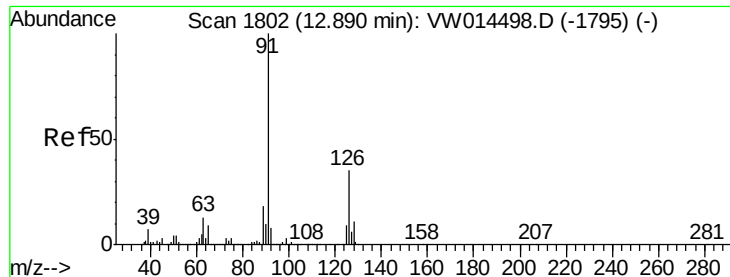
Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.7	35.1





#79

2-Chlorotoluene

Concen: 18.281 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBSD01

Tot Ion: 91 Resp: 436253

Ion Ratio Lower Upper

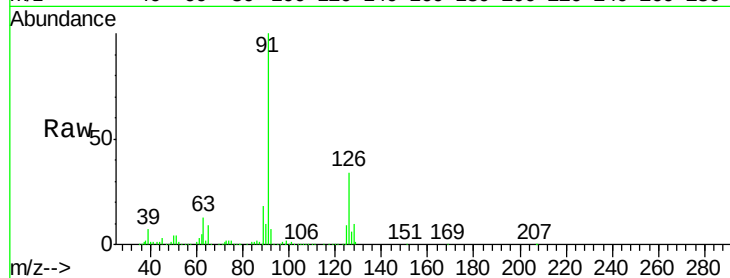
91 100

126 34.4 17.1 51.2

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

400000

300000

200000

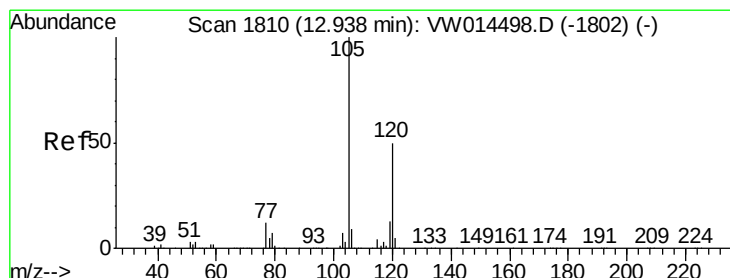
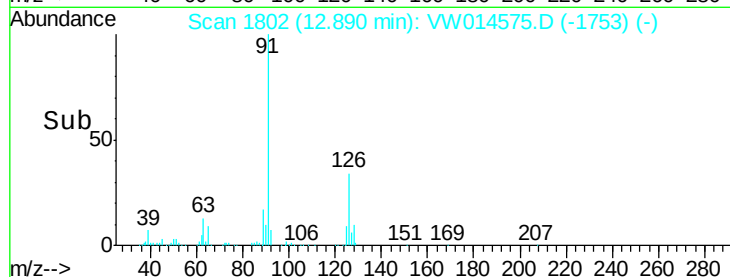
100000

0

12.85

12.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.470 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW014575.D

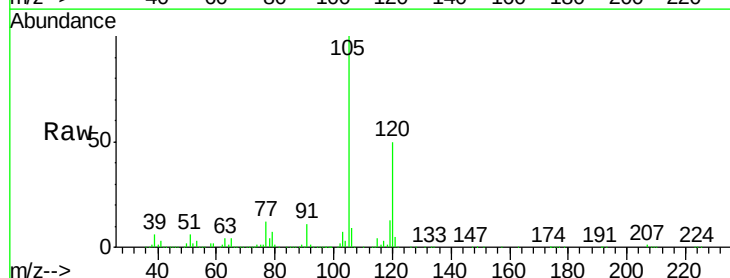
Acq: 09 Jan 2020 12:06

Tgt Ion: 105 Resp: 553034

Ion Ratio Lower Upper

105 100

120 50.8 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

400000

300000

200000

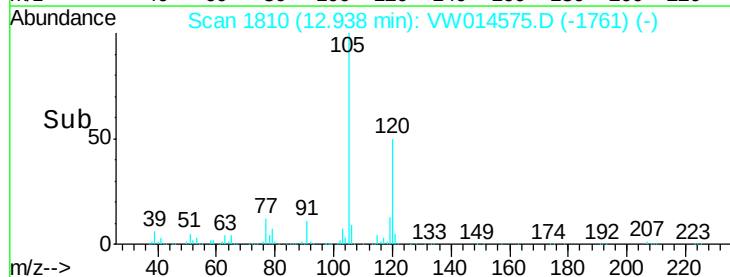
100000

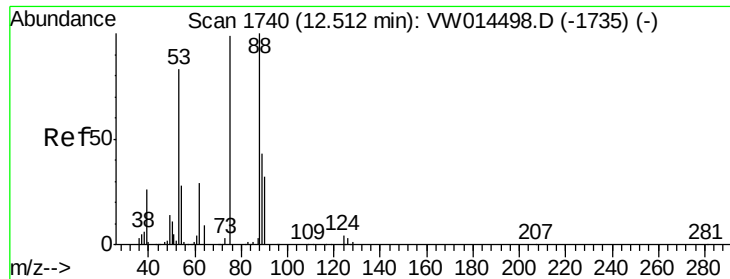
0

12.90

13.00

Time-->





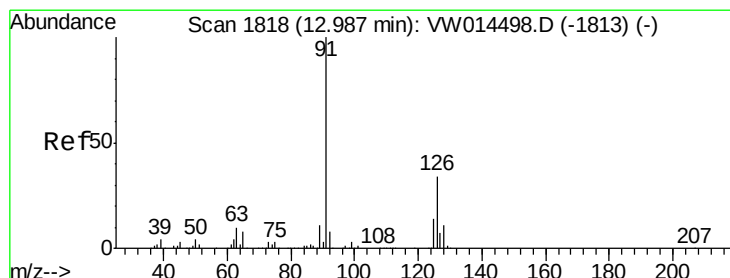
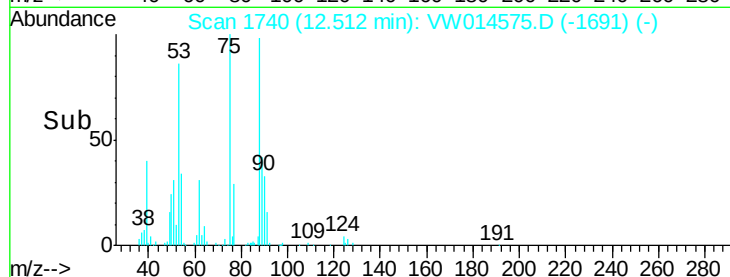
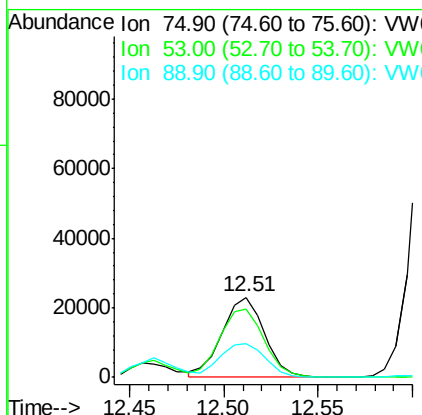
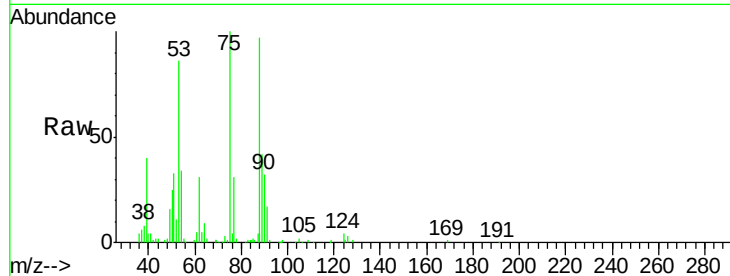
#81
trans-1,4-Dichloro-2-butene
Concen: 17.202 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.8	70.9	106.3
89	45.2	35.8	53.8

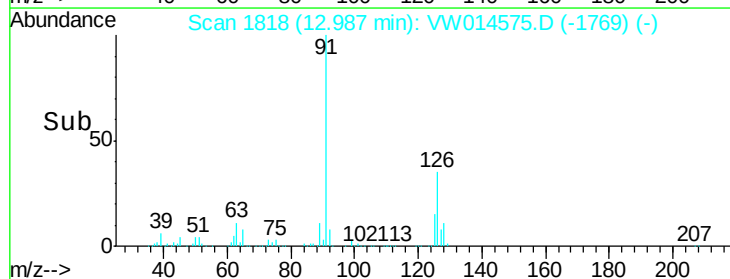
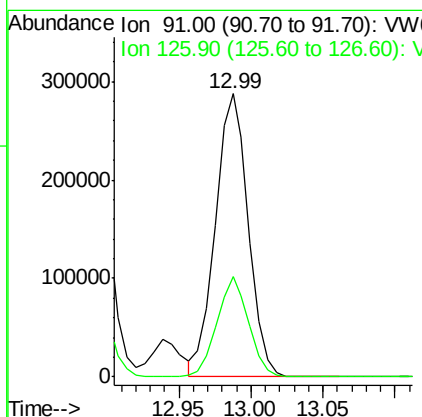
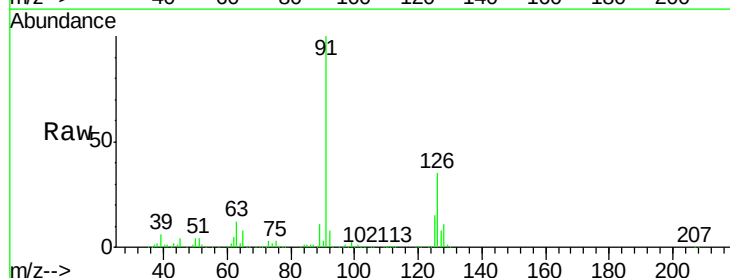
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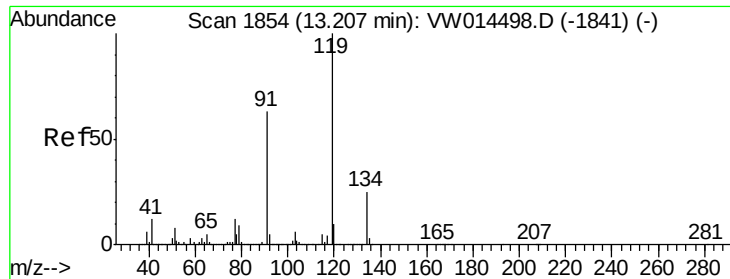
MMDadoda
1/10/2020 10:41:00 AM



#82
4-Chlorotoluene
Concen: 18.413 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.1	51.2





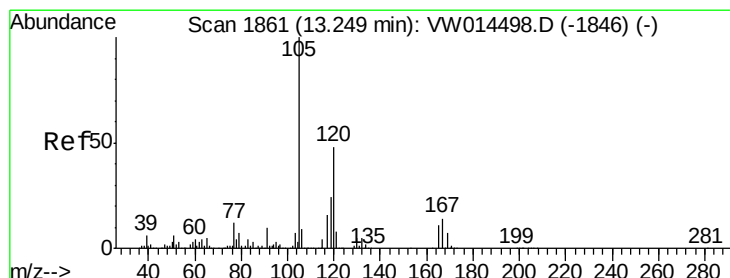
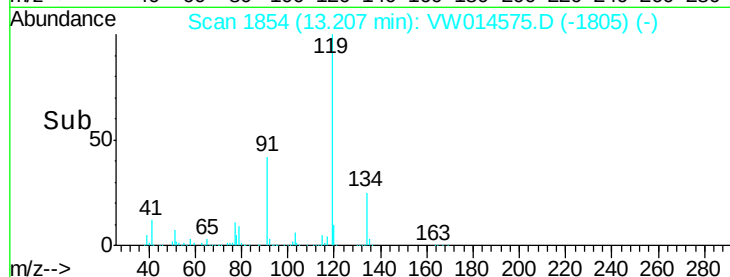
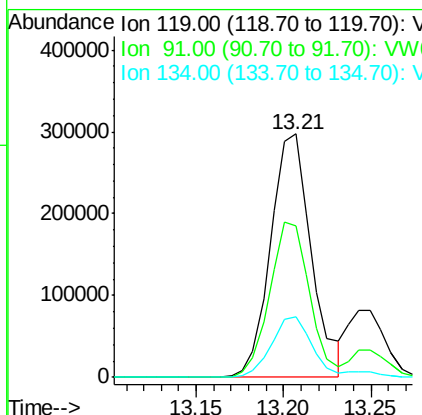
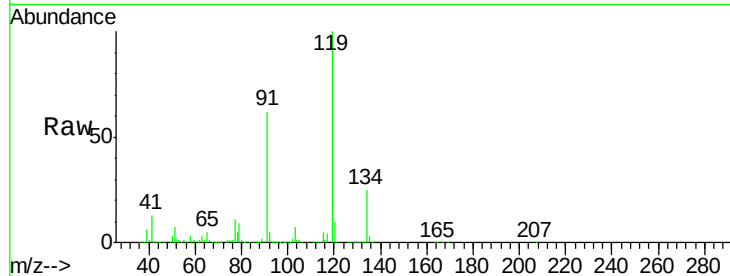
#83
tert-Butylbenzene
Concen: 18.479 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.3	31.1	93.3
134	24.9	13.5	40.5

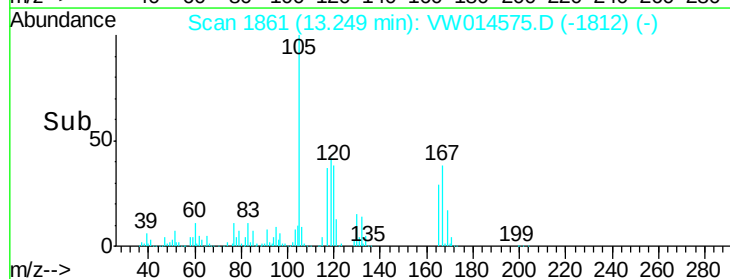
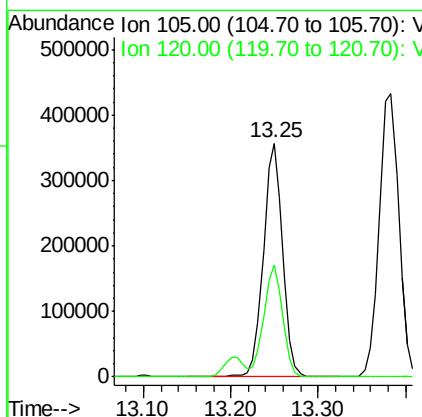
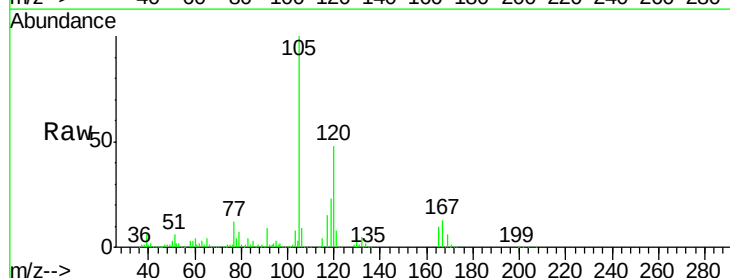
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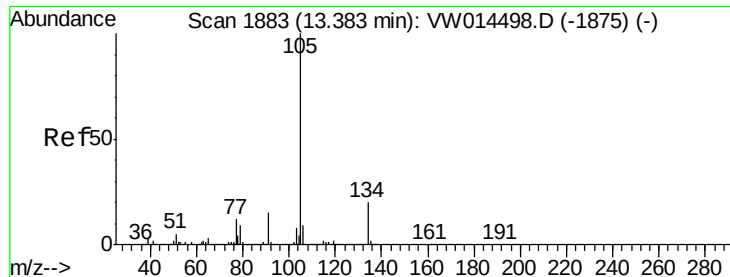
MMDadoda
1/10/2020 10:41:00 AM



#84
1,2,4-Trimethylbenzene
Concen: 18.454 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.4	70.0





#85

sec-Butylbenzene

Concen: 18.503 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0109SBS01

Tot Ion:105 Resp: 671410

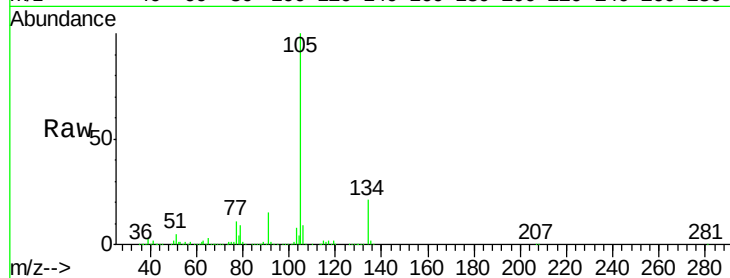
Ion Ratio Lower Upper

105 100

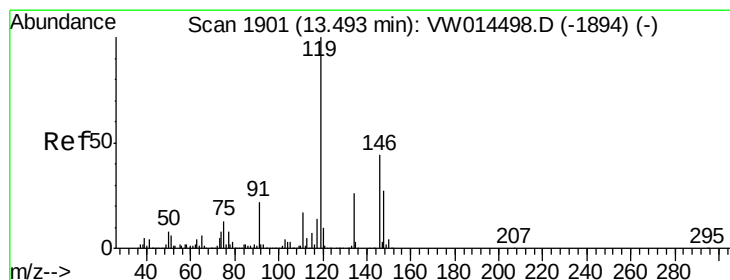
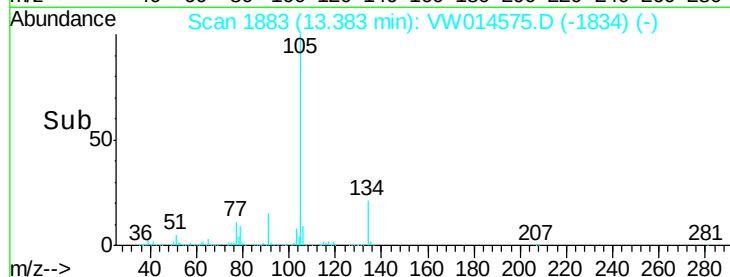
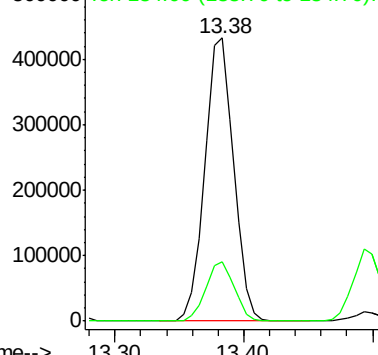
134 20.9 10.2 30.6

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 18.739 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

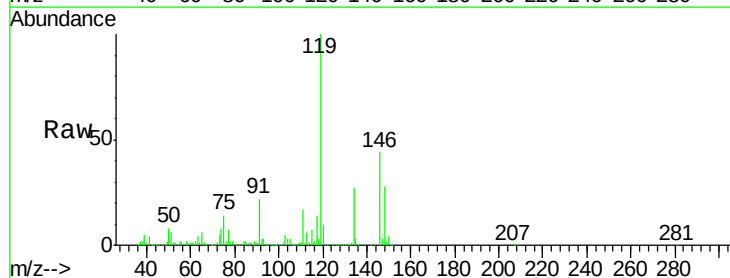
Tgt Ion:119 Resp: 619788

Ion Ratio Lower Upper

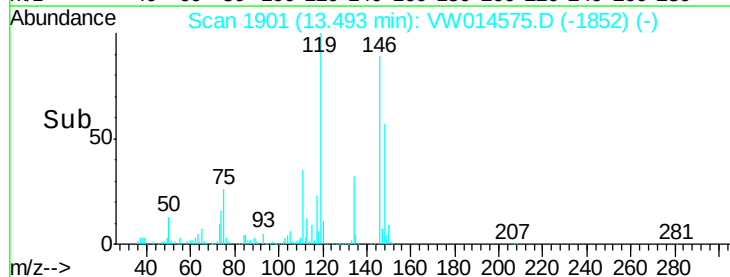
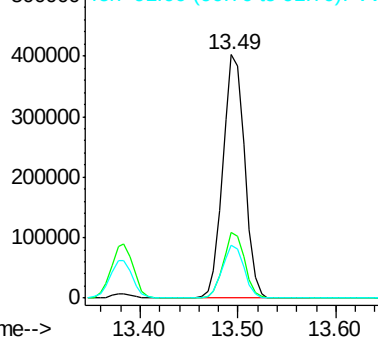
119 100

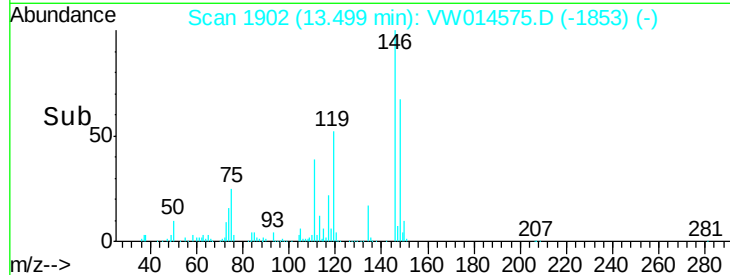
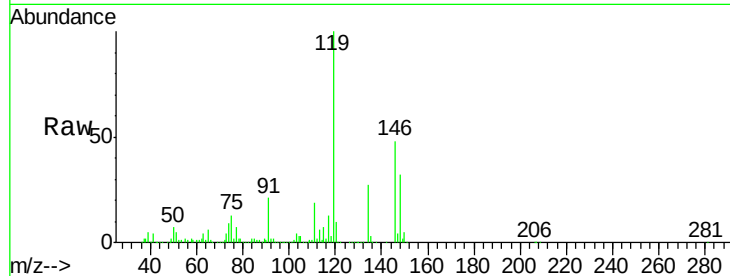
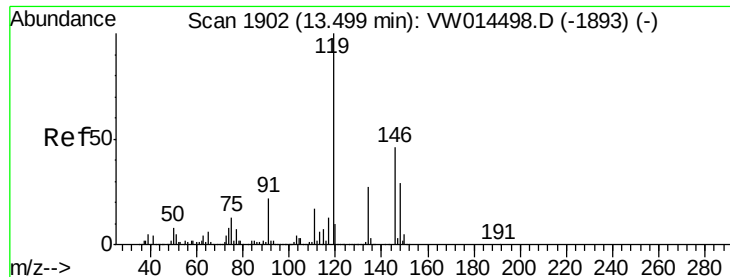
134 26.4 13.2 39.5

91 21.7 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 18.262 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

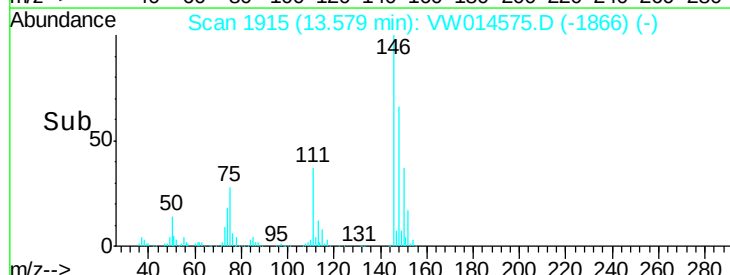
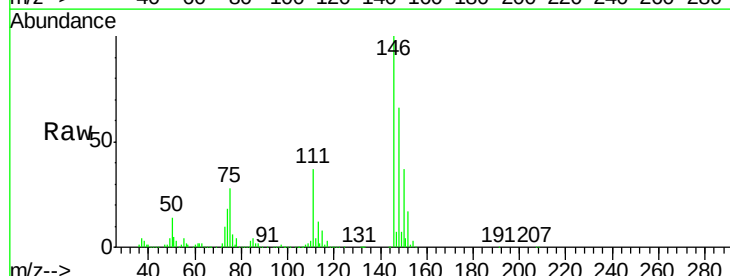
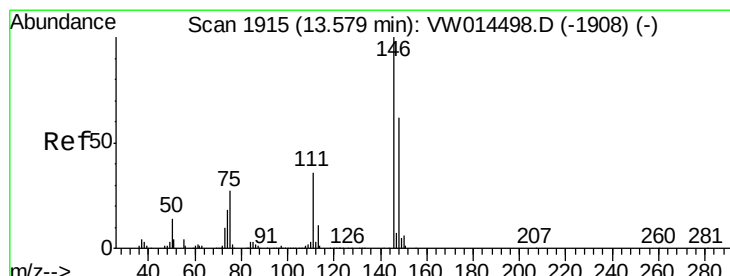
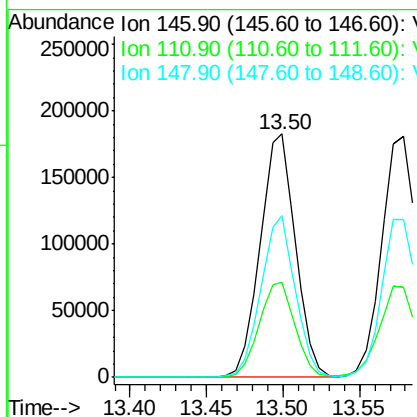
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.3	57.9
148	64.7	31.8	95.4

Instrument :
MSVOA_W

ClientSampleId :
VW0109SBS01

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#88

1,4-Dichlorobenzene

Concen: 18.375 ug/l

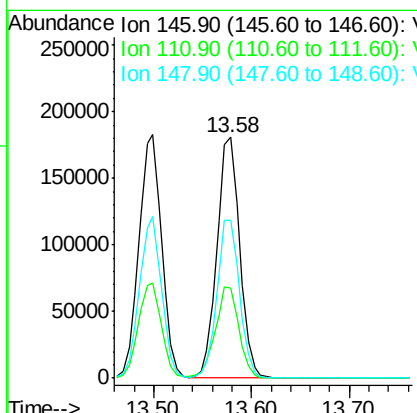
RT: 13.58 min Scan# 1915

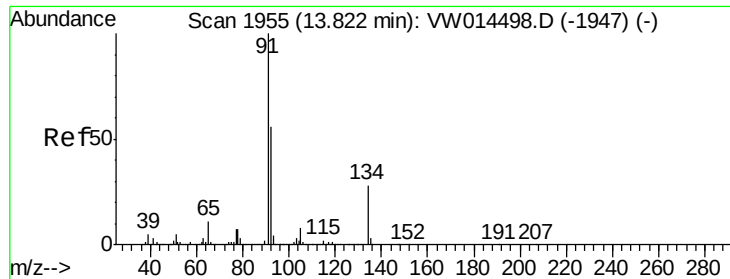
Delta R.T. 0.00 min

Lab File: VW014575.D

Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.7	56.1
148	65.1	31.7	95.1





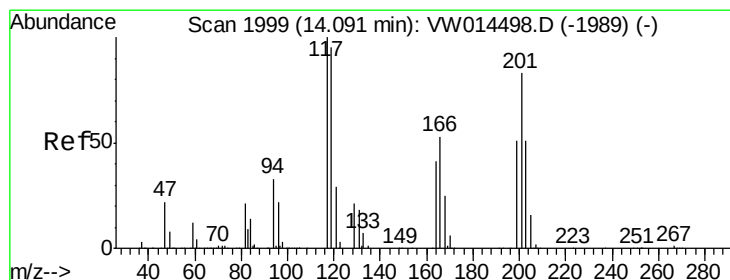
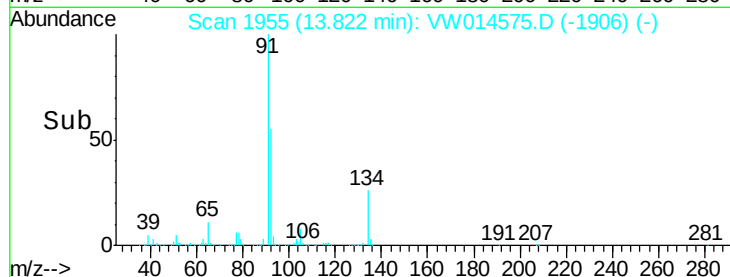
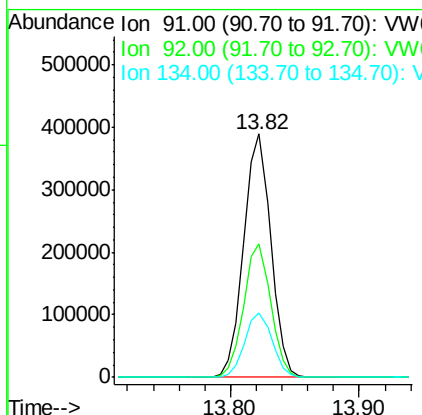
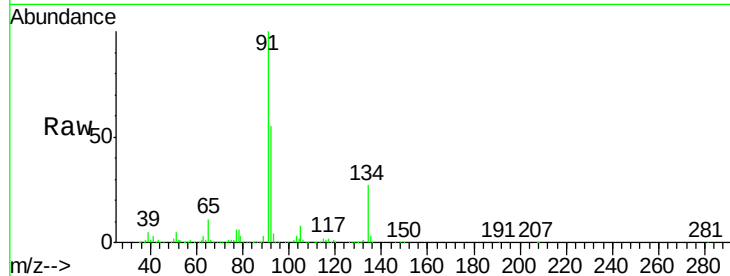
#89
n-Butylbenzene
Concen: 18.413 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.8	27.5	82.5
134	26.9	13.7	41.1

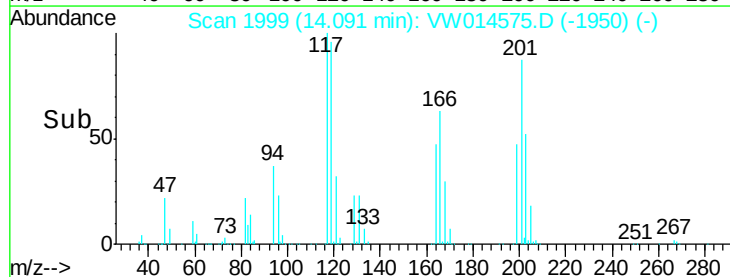
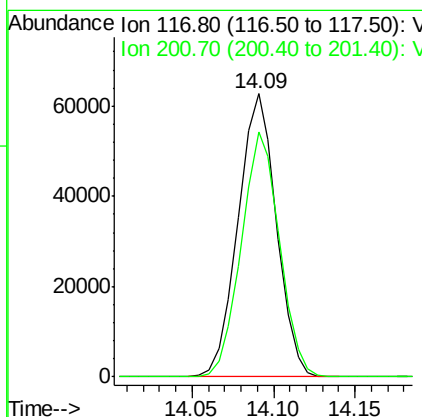
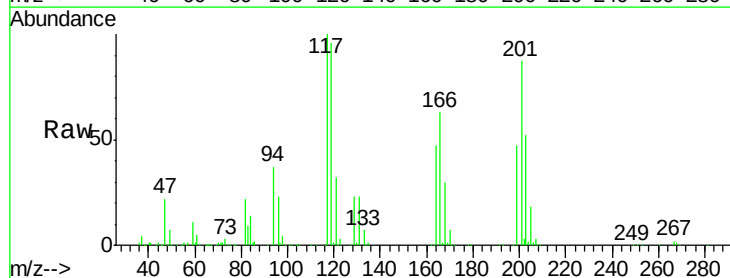
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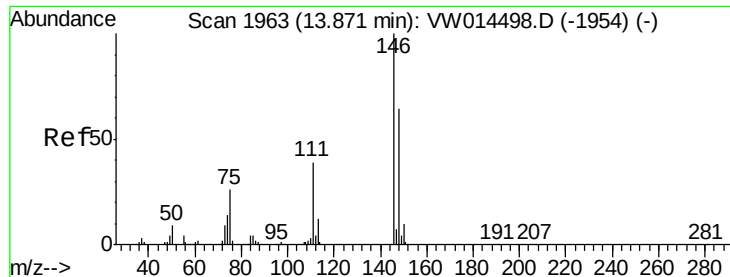
MMDadoda
1/10/2020 10:41:00 AM



#90
Hexachloroethane
Concen: 17.715 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.4	43.0	128.8





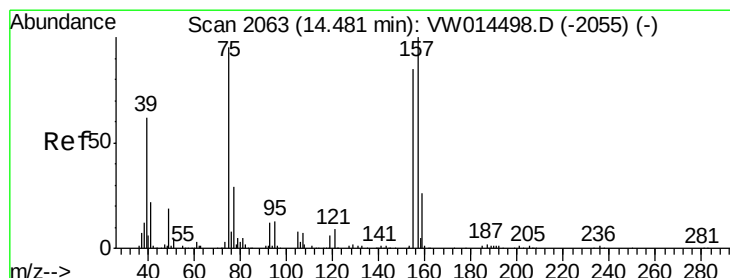
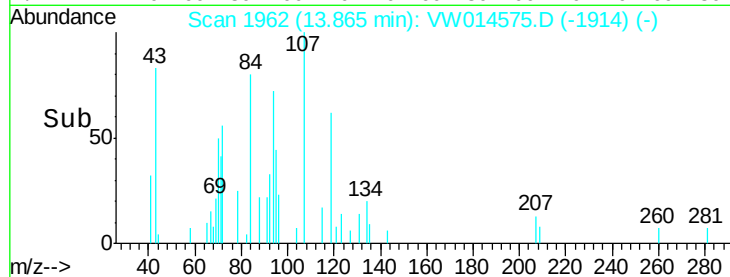
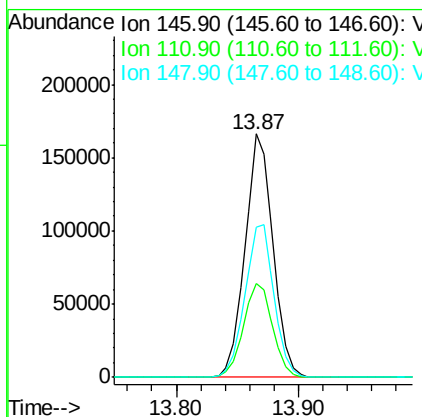
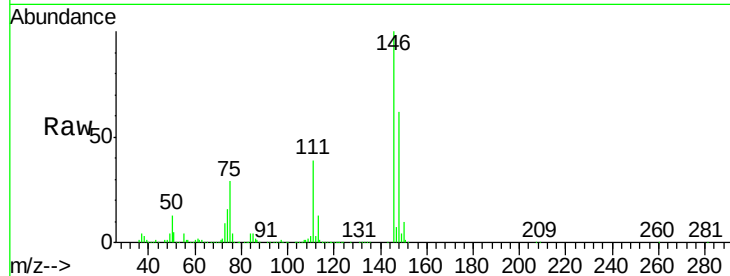
#91
 1,2-Dichlorobenzene
 Concen: 18.593 ug/l
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0109SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	263211		
111	40.3		20.4	61.3
148	65.3		32.3	96.8

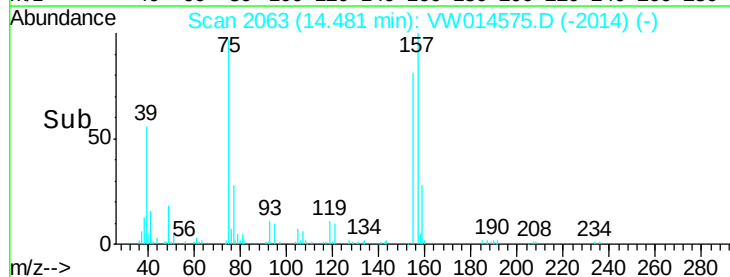
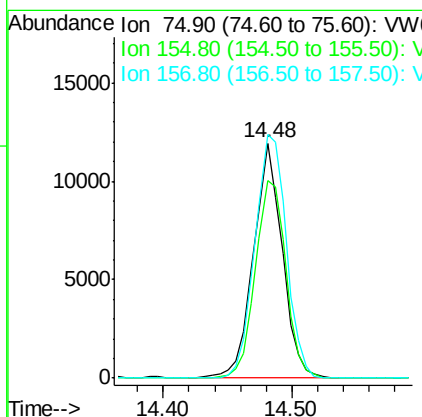
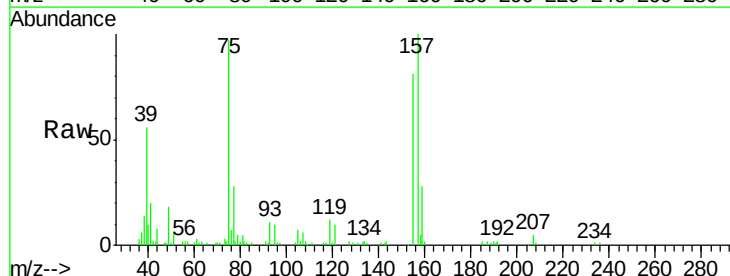
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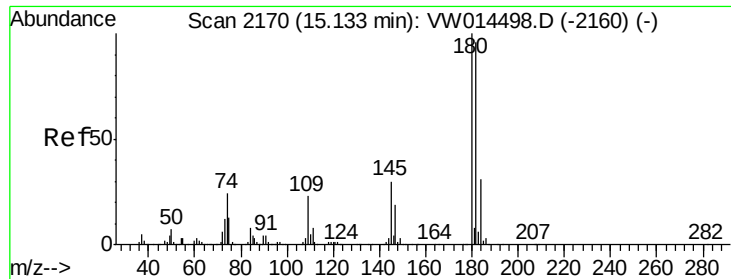
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.031 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	18379		
155	88.9		45.8	137.4
157	112.7		58.1	174.2





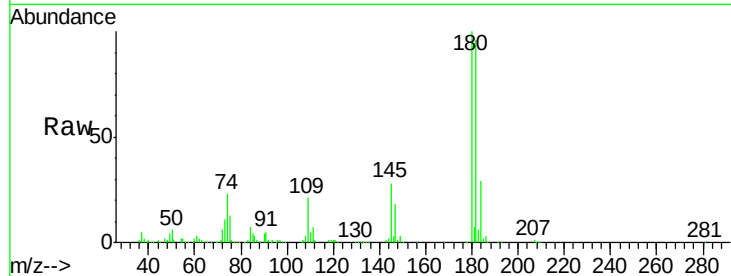
#93
 1,2,4-Trichlorobenzene
 Concen: 19.372 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	185187		
182	92.5	47.3	141.8	
145	28.1	14.7	44.1	

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 1/10/2020 10:41:00 AM

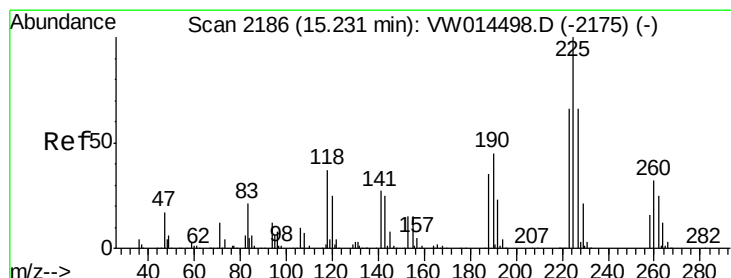
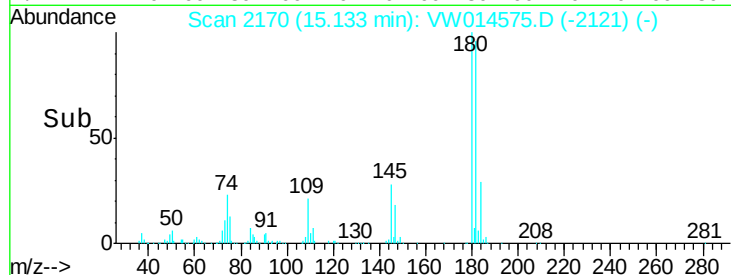
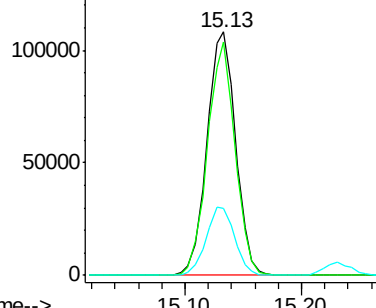


Abundance

Ion 179.80 (179.50 to 180.50): V

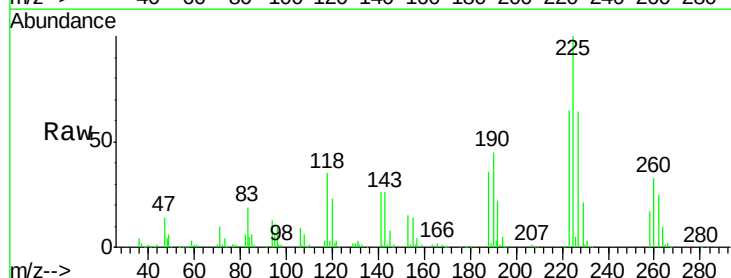
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.320 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VW014575.D
 Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	123768		
223	62.8	32.4	97.2	
227	63.1	32.6	97.8	

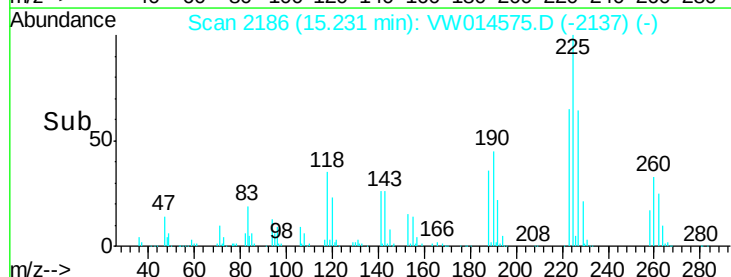
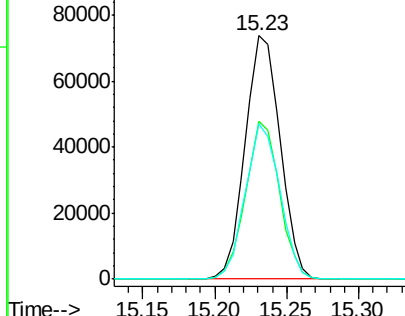


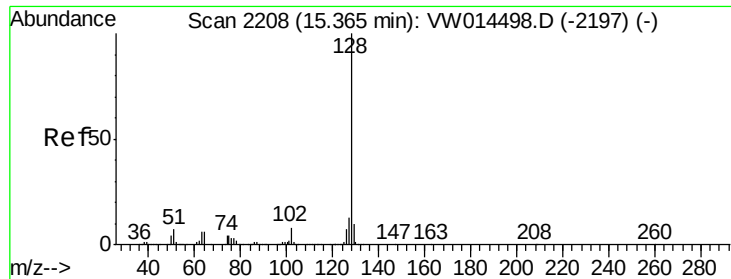
Abundance

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





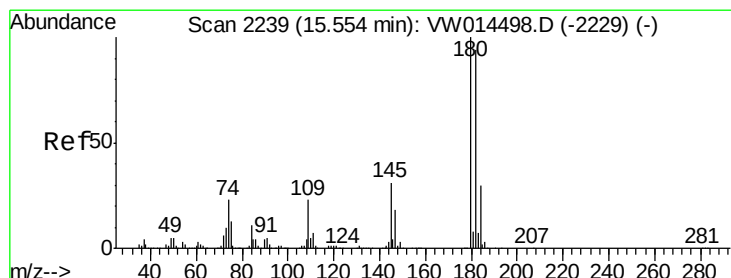
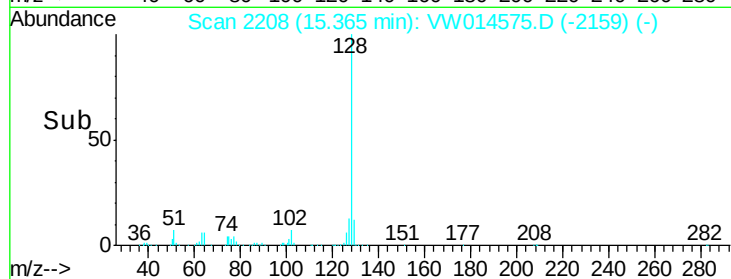
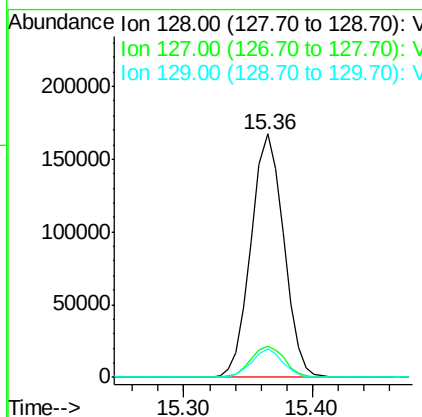
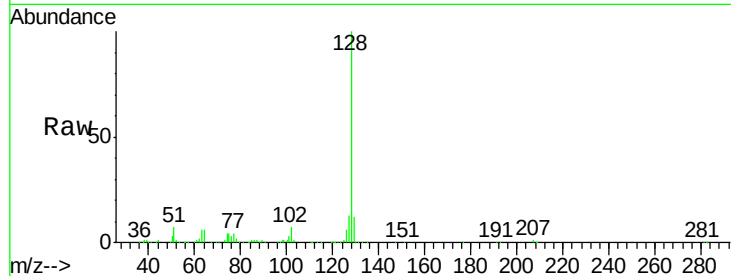
#95
Naphthalene
Concen: 18.063 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0109SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
1/10/2020 10:41:00 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.895 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW014575.D
Acq: 09 Jan 2020 12:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.4	142.2
145	30.8	15.5	46.5

