

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030920\
 Data File : VW015094.D
 Acq On : 09 Mar 2020 11:28
 Operator : SY/VA
 Sample : VSTDIC020
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

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 3/11/2020 3:23:56 PM

Quant Time: Mar 09 18:43:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 09 18:33:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	442786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	799194	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	721450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	333472	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	125930	19.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.68%	
35) Dibromofluoromethane	7.88	113	95821	20.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.06%	
50) Toluene-d8	10.32	98	399733	19.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.90%	
62) 4-Bromofluorobenzene	12.62	95	129450	19.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	57736	21.504	ug/l	96
3) Chloromethane	2.21	50	118589	20.582	ug/l	99
4) Vinyl Chloride	2.36	62	159506	21.146	ug/l	98
5) Bromomethane	2.76	94	89300	20.711	ug/l	100
6) Chloroethane	2.92	64	89893	20.575	ug/l	96
7) Trichlorofluoromethane	3.26	101	76306	20.215	ug/l	99
8) Diethyl Ether	3.68	74	56699	19.713	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	118757	20.638	ug/l	99
10) Methyl Iodide	4.27	142	130560	20.395	ug/l	100
11) Tert butyl alcohol	5.17	59	34147	91.260	ug/l	99
12) 1,1-Dichloroethene	4.04	96	115498	20.530	ug/l	95
13) Acrolein	3.89	56	55117	100.721	ug/l	96
14) Allyl chloride	4.67	41	225496	20.001	ug/l	99
15) Acrylonitrile	5.36	53	144258	97.847	ug/l	98
16) Acetone	4.12	43	138868	93.526	ug/l	100
17) Carbon Disulfide	4.38	76	411538	20.632	ug/l	99
18) Methyl Acetate	4.67	43	71978	20.450	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	143900	19.981	ug/l	99
20) Methylene Chloride	4.92	84	136833	19.906	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	120308	20.141	ug/l	98
22) Diisopropyl ether	6.31	45	454036	20.988	ug/l	98
23) Vinyl Acetate	6.25	43	1263223	98.919	ug/l	99
24) 1,1-Dichloroethane	6.21	63	256491	20.332	ug/l	98
25) 2-Butanone	7.17	43	191613	94.135	ug/l	97
26) 2,2-Dichloropropane	7.16	77	144923	20.086	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	125523	20.185	ug/l	98
28) Bromochloromethane	7.51	49	116499	19.273	ug/l	100
29) Tetrahydrofuran	7.52	42	123921	97.330	ug/l	99
30) Chloroform	7.68	83	229953	20.541	ug/l	99
31) Cyclohexane	7.95	56	261417	20.148	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	178568	20.428	ug/l	99
36) 1,1-Dichloropropene	8.08	75	196505	21.202	ug/l	99
37) Ethyl Acetate	7.25	43	91911	19.898	ug/l	99
38) Carbon Tetrachloride	8.07	117	155983	20.674	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	215659	20.350	ug/l	97
40) Benzene	8.32	78	541160	21.011	ug/l	100
41) Methacrylonitrile	7.48	41	50438	20.647	ug/l	94
42) 1,2-Dichloroethane	8.40	62	162701	20.734	ug/l	100
43) Isopropyl Acetate	8.42	43	162416	19.613	ug/l	98
44) Trichloroethene	9.09	130	112593	20.537	ug/l	99
45) 1,2-Dichloropropane	9.37	63	144568	20.842	ug/l	99
46) Dibromomethane	9.46	93	63159	20.941	ug/l	99
47) Bromodichloromethane	9.64	83	166448	20.671	ug/l	99
48) Methyl methacrylate	9.43	41	72604	18.997	ug/l	97
49) 1,4-Dioxane	9.45	88	18631	403.469	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	438158	95.792	ug/l	99
52) Toluene	10.38	92	308402	20.843	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	160300	20.235	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	196350	20.347	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	84096	20.349	ug/l	99
56) Ethyl methacrylate	10.65	69	102450	19.212	ug/l	99
57) 1,3-Dichloropropane	10.93	76	160171	20.357	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	312314	99.818	ug/l	100
59) 2-Hexanone	10.96	43	278279	97.401	ug/l	97
60) Dibromochloromethane	11.13	129	86472	20.259	ug/l	99
61) 1,2-Dibromoethane	11.23	107	74274	20.272	ug/l	100
64) Tetrachloroethene	10.86	164	85059	20.430	ug/l	94
65) Chlorobenzene	11.66	112	298724	20.629	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	96354	19.982	ug/l	97
67) Ethyl Benzene	11.73	91	573398	20.349	ug/l	99
68) m/p-Xylenes	11.83	106	417949	41.956	ug/l	99
69) o-Xylene	12.16	106	183881	20.492	ug/l	100
70) Styrene	12.18	104	317294	20.636	ug/l	99
71) Bromoform	12.35	173	41293	19.296	ug/l #	94
73) Isopropylbenzene	12.46	105	516946	20.294	ug/l	99
74) N-amyl acetate	12.27	43	141980	18.860	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	101817	19.684	ug/l	98
76) 1,2,3-Trichloropropane	12.76	75	81166m	13.133	ug/l	
77) Bromobenzene	12.74	156	101334	20.126	ug/l	98
78) n-propylbenzene	12.80	91	684911	20.689	ug/l	100
79) 2-Chlorotoluene	12.89	91	380844	20.461	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	453747	20.717	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	31754	19.030	ug/l	96
82) 4-Chlorotoluene	12.99	91	408954	20.632	ug/l	100
83) tert-Butylbenzene	13.20	119	355759	20.050	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	458611	20.941	ug/l	98
85) sec-Butylbenzene	13.38	105	551564	20.540	ug/l	100
86) p-Isopropyltoluene	13.49	119	473049	20.494	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	218805	20.511	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	215703	20.535	ug/l	98
89) n-Butylbenzene	13.82	91	501058	20.128	ug/l	100
90) Hexachloroethane	14.09	117	90295	19.505	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	189508	20.283	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	16228	19.537	ug/l	97

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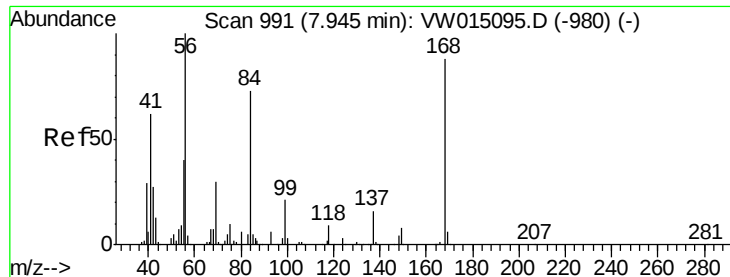
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	109266	20.436	ug/l	97
94) Hexachlorobutadiene	15.23	225	69445	20.687	ug/l	97
95) Naphthalene	15.36	128	186221	18.653	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	99011	20.879	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW015094.D

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ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 442786

Ion Ratio Lower Upper

168 100

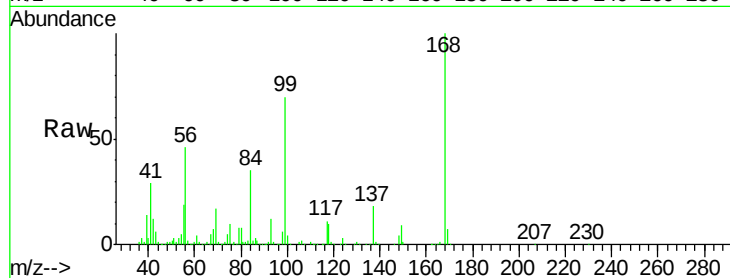
99 69.4 57.2 85.8

Manual Integrations

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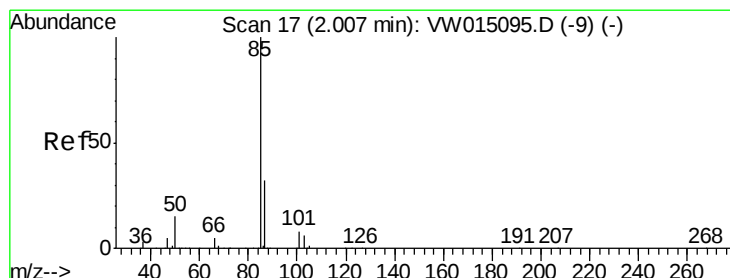
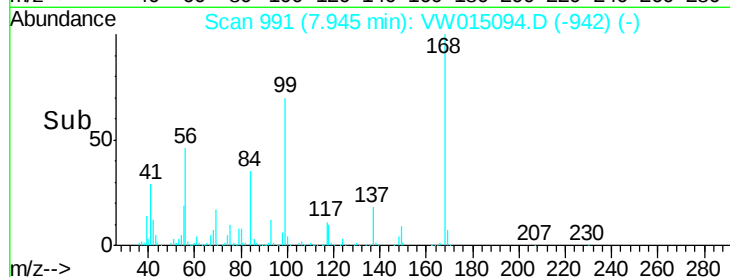
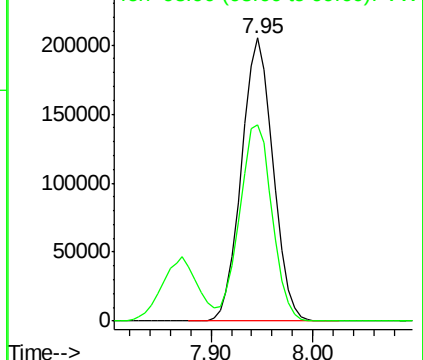
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 21.504 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW015094.D

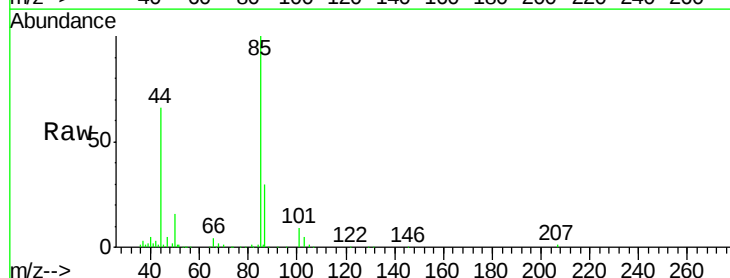
Acq: 09 Mar 2020 11:28

Tgt Ion: 85 Resp: 57736

Ion Ratio Lower Upper

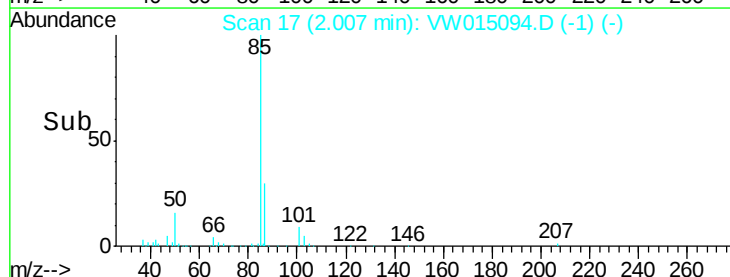
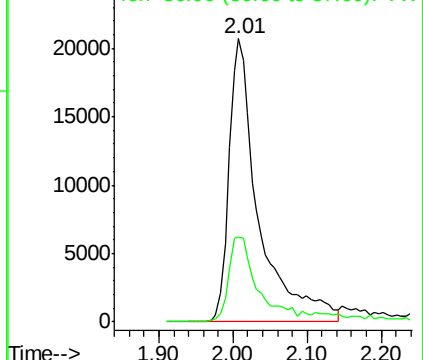
85 100

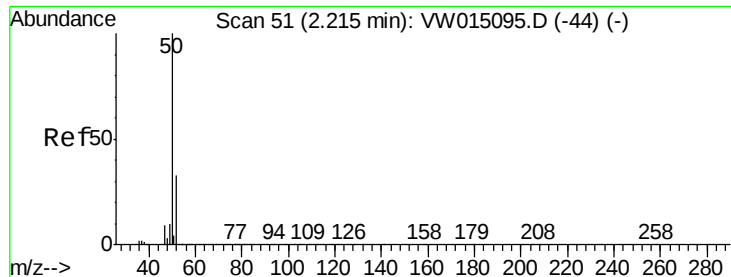
87 29.9 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 20.582 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 118589

Ion Ratio Lower Upper

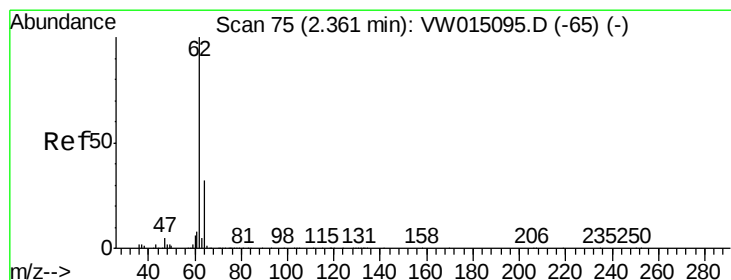
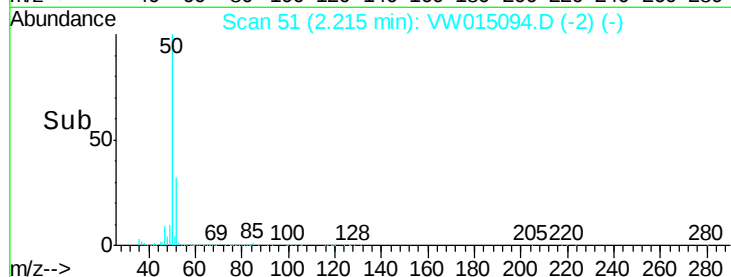
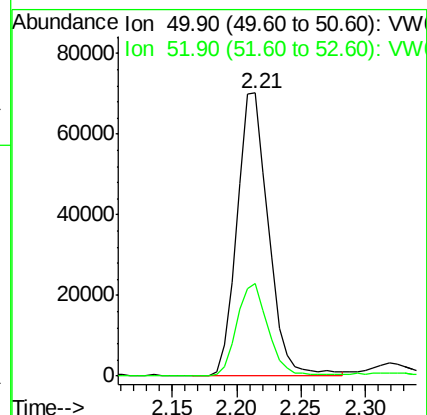
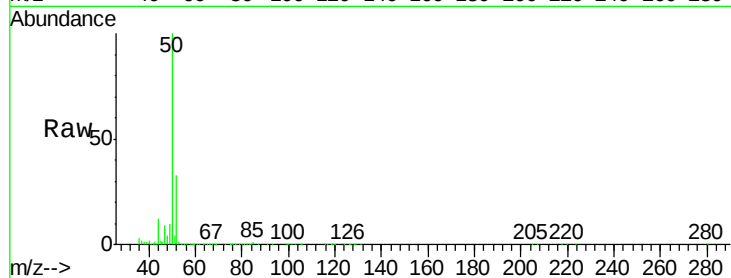
50 100

52 32.8 26.6 40.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 21.146 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW015094.D

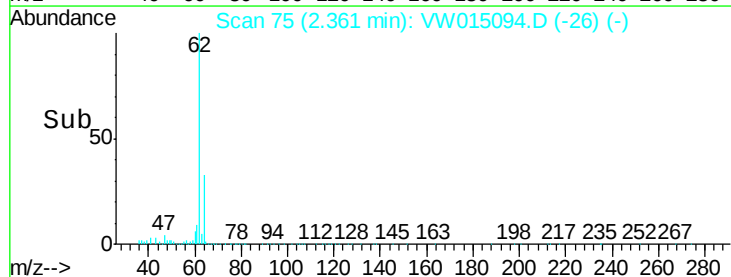
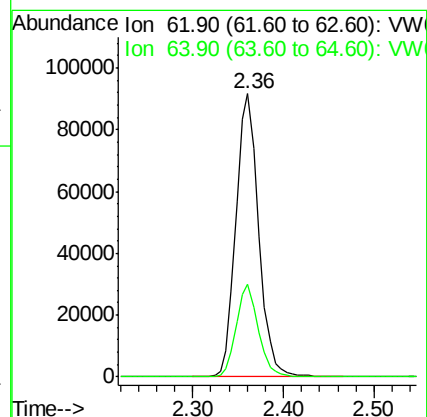
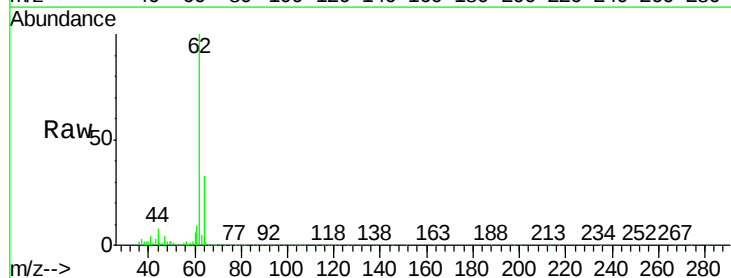
Acq: 09 Mar 2020 11:28

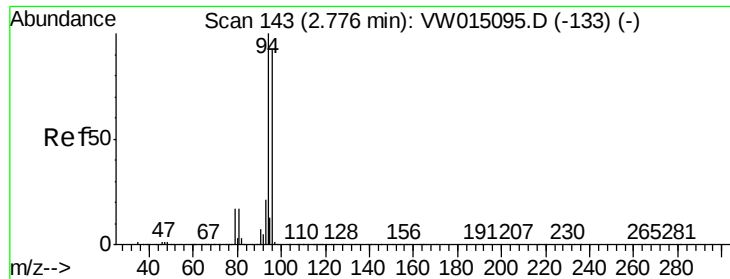
Tgt Ion: 62 Resp: 159506

Ion Ratio Lower Upper

62 100

64 32.8 25.3 37.9





#5

Bromomethane

Concen: 20.711 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 89300

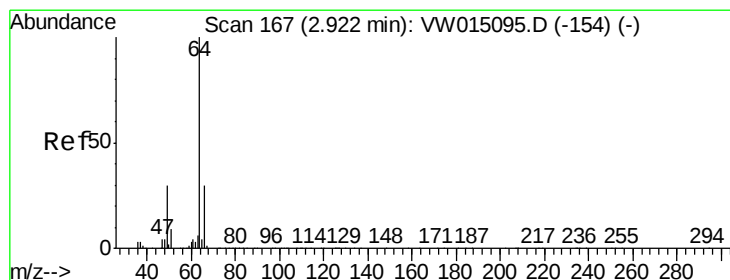
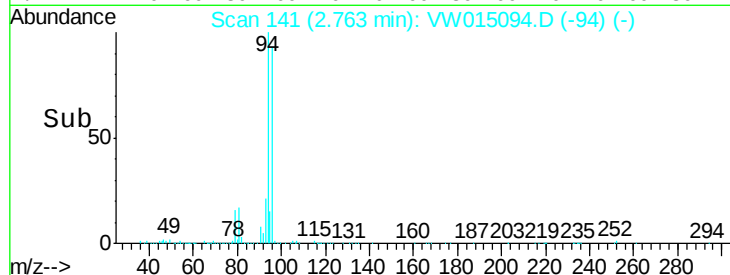
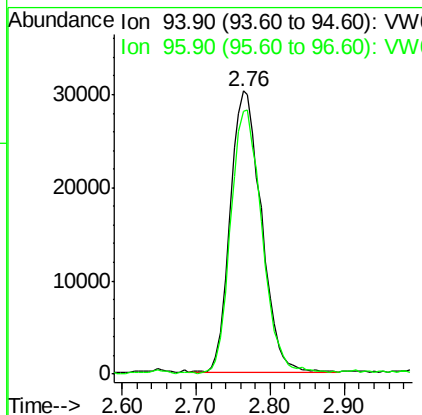
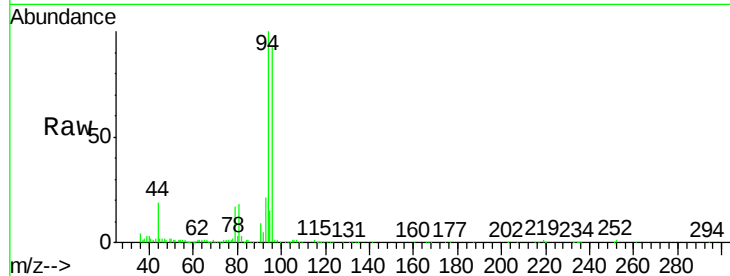
Ion Ratio Lower Upper

94 100

96 92.9 74.0 111.0

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#6

Chloroethane

Concen: 20.575 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW015094.D

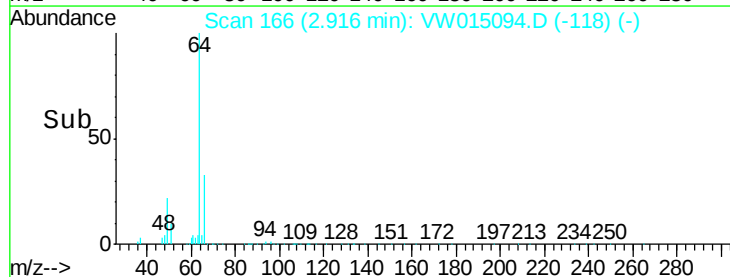
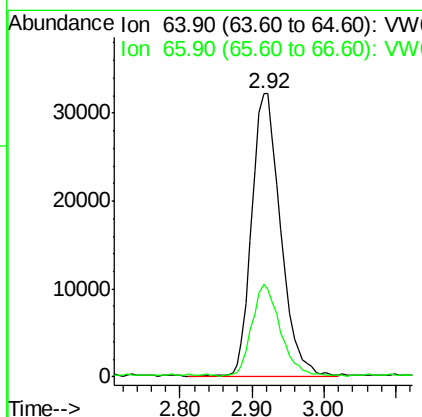
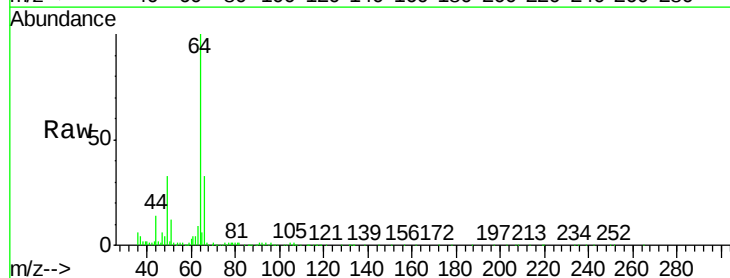
Acq: 09 Mar 2020 11:28

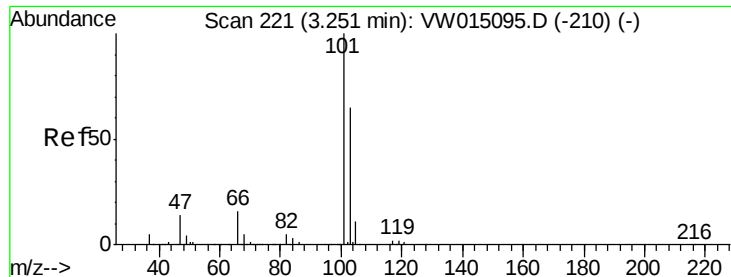
Tgt Ion: 64 Resp: 89893

Ion Ratio Lower Upper

64 100

66 32.4 24.2 36.2





#7

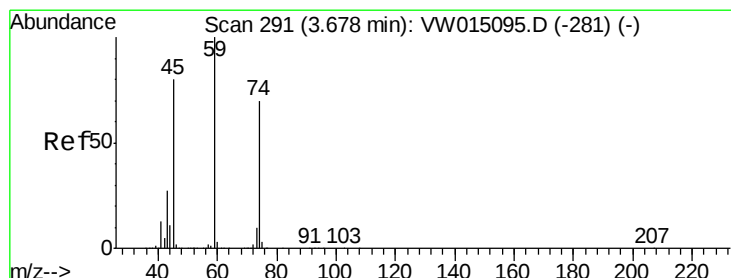
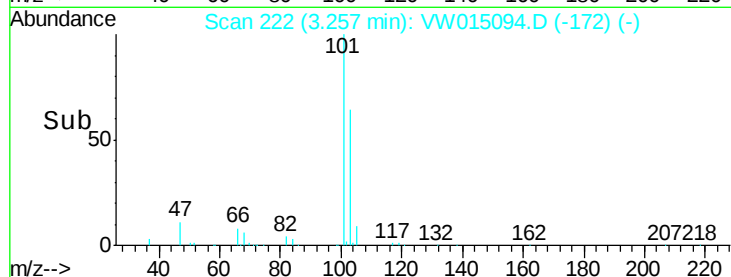
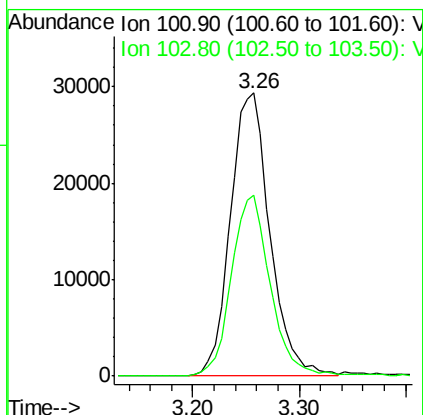
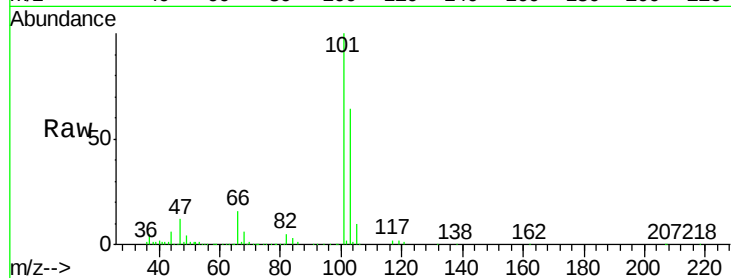
Trichlorofluoromethane
Concen: 20.215 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.01 min
Lab File: VW015094.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.8	77.6

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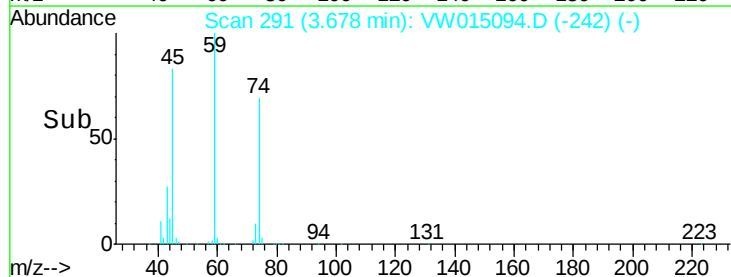
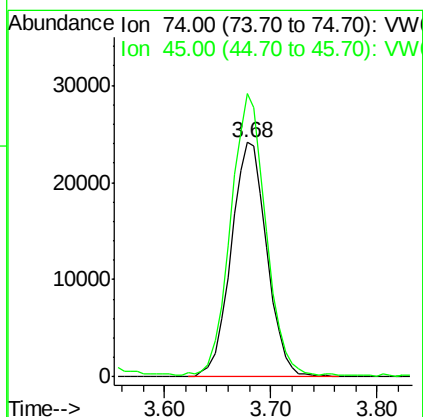
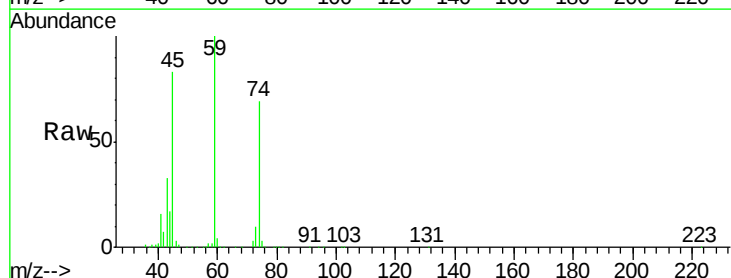
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3/11/2020 3:23:56 PM

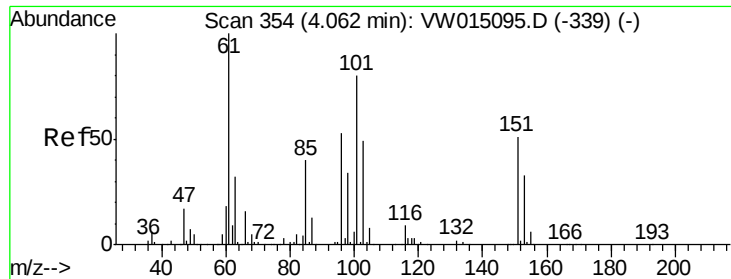


#8

Diethyl Ether
Concen: 19.713 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.00 min
Lab File: VW015094.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.4	59.2	177.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.638 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW015094.D

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Instrument :

MSVOA_W

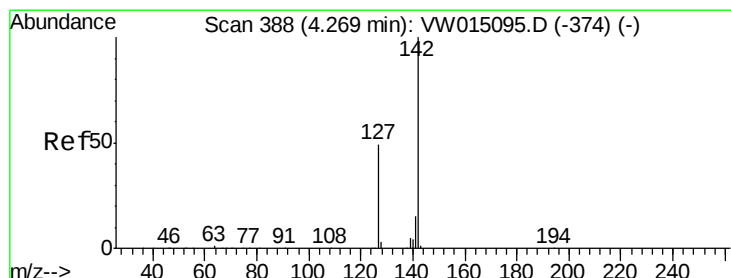
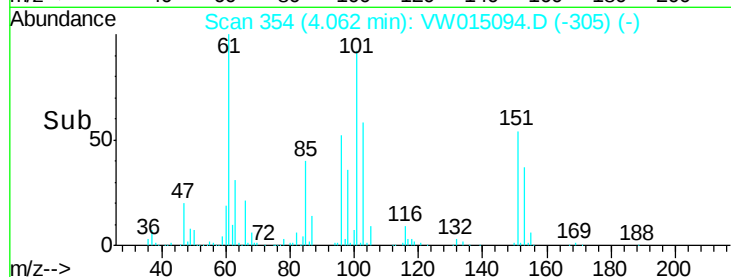
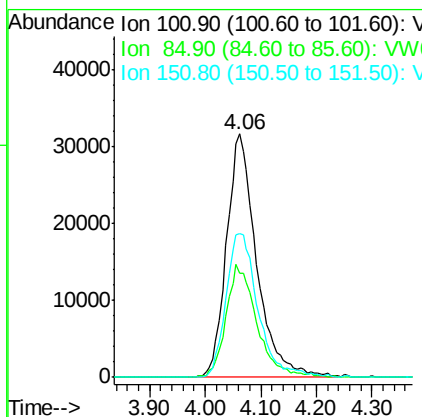
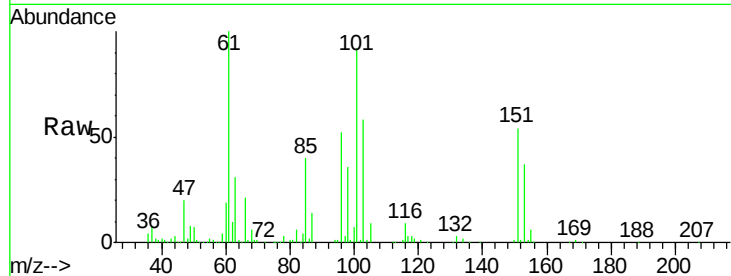
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	118757
Ion Ratio	Lower	Upper	
101	100		
85	47.3	39.0	58.4
151	62.9	50.8	76.2

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#10

Methyl Iodide

Concen: 20.395 ug/l

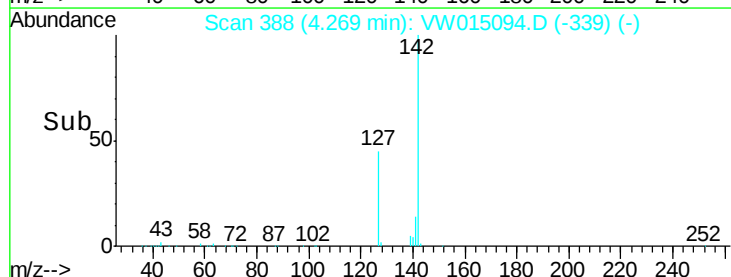
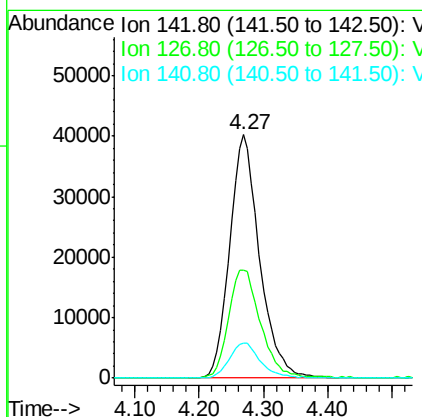
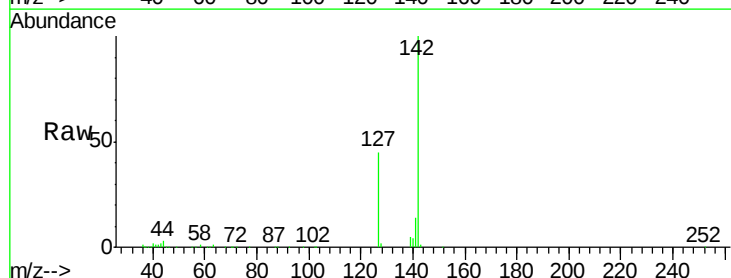
RT: 4.27 min Scan# 388

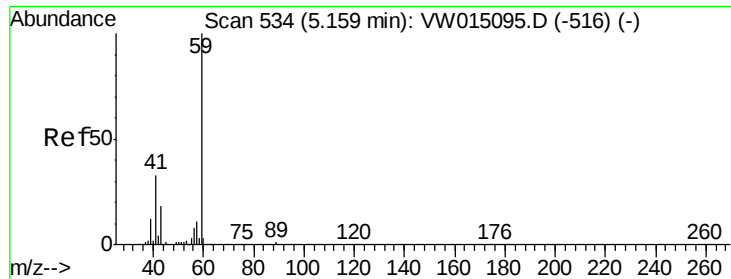
Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion:	142	Resp:	130560
Ion Ratio	Lower	Upper	
142	100		
127	47.4	38.2	57.4
141	15.0	12.0	18.0





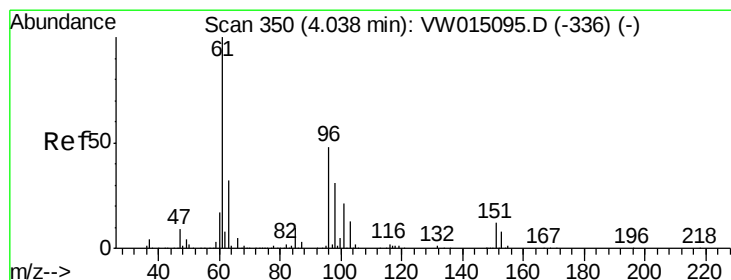
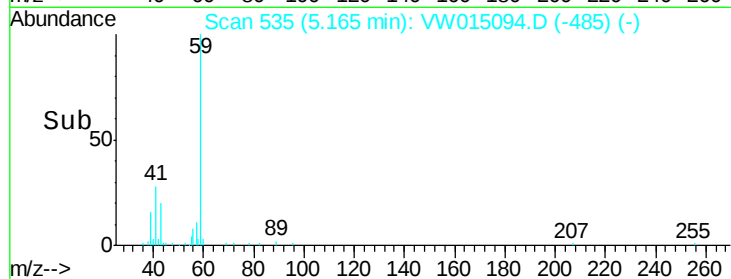
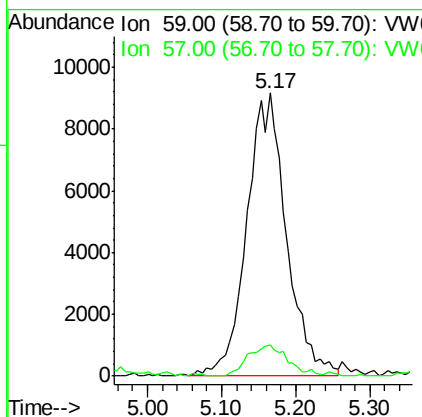
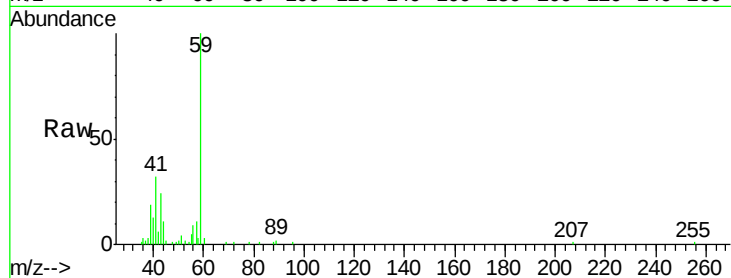
#11
Tert butyl alcohol
Concen: 91.260 ug/l
RT: 5.17 min Scan# 535
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	59.00	Resp	34147
Ion Ratio	100	Lower	Upper
59	100		
57	11.0	9.1	13.7

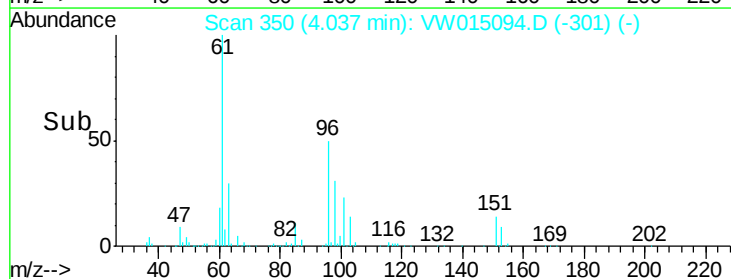
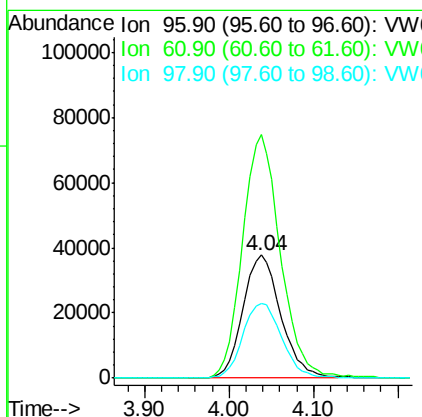
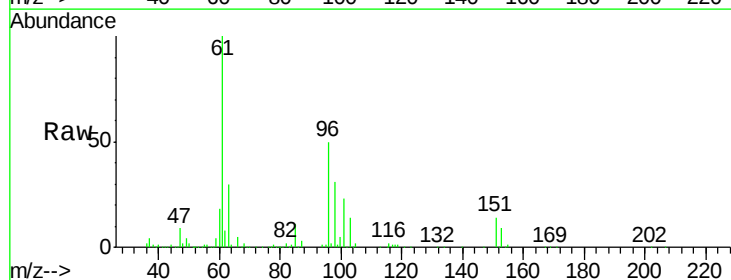
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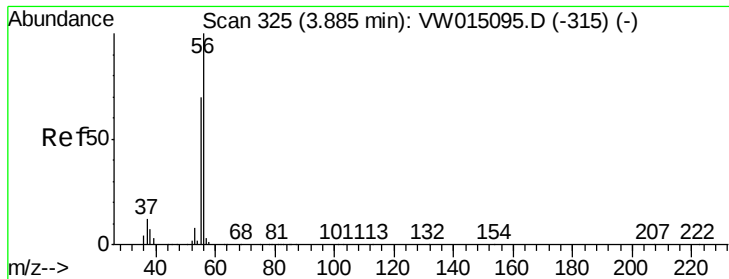
MMDadoda
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#12
1,1-Dichloroethene
Concen: 20.530 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	96	Resp	115498
Ion Ratio	100	Lower	Upper
96	100		
61	198.3	165.5	248.3
98	60.6	51.1	76.7





#13

Acrolein

Concen: 100.721 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 55117

Ion Ratio Lower Upper

56 100

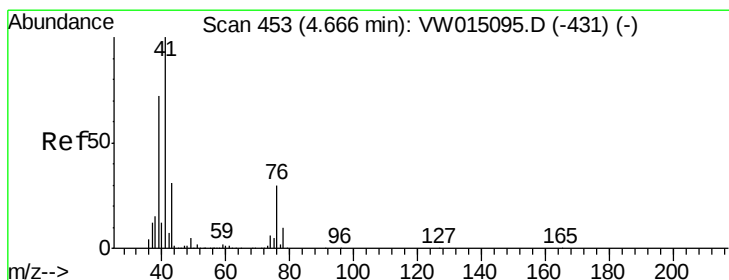
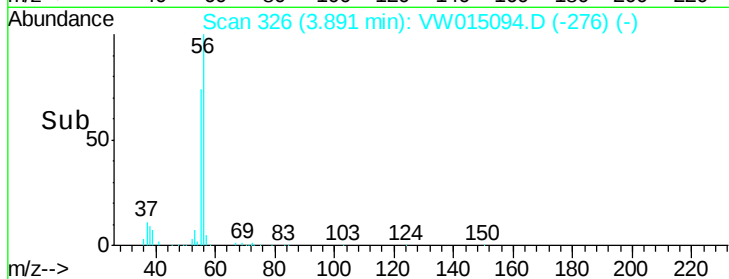
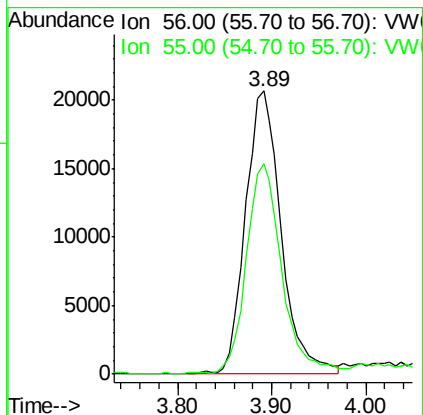
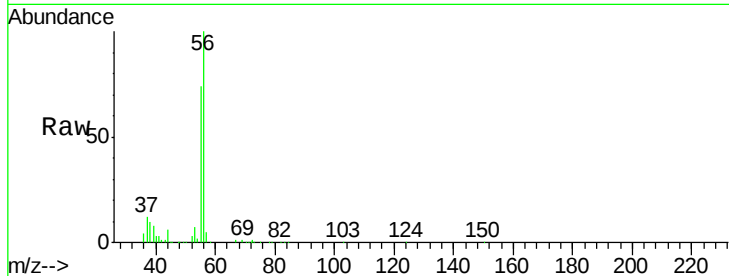
55 72.9 55.4 83.2

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#14

Allyl chloride

Concen: 20.001 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

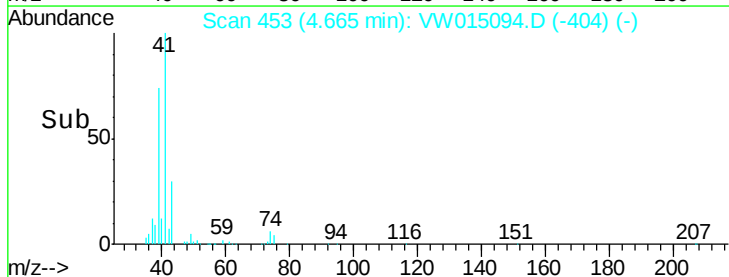
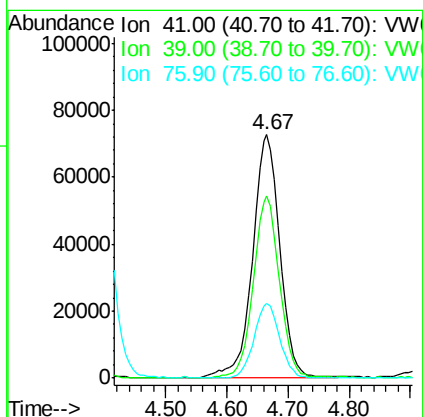
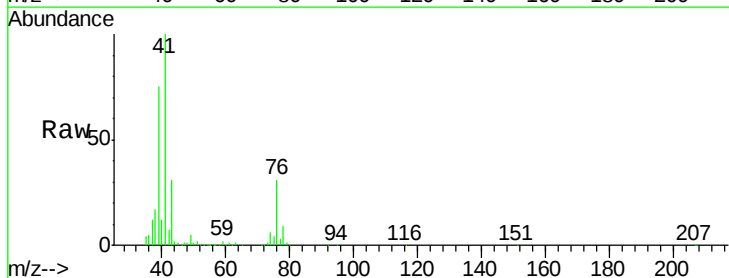
Tgt Ion: 41 Resp: 225496

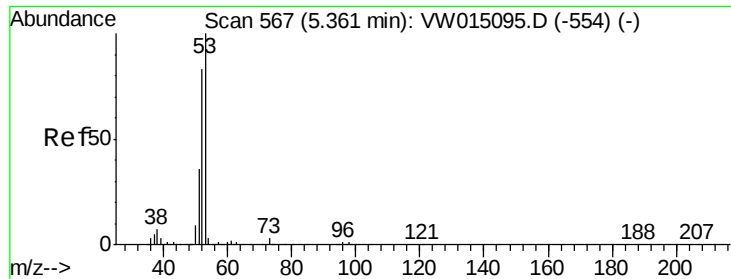
Ion Ratio Lower Upper

41 100

39 72.2 56.9 85.3

76 29.4 23.2 34.8





#15

Acrylonitrile

Concen: 97.847 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

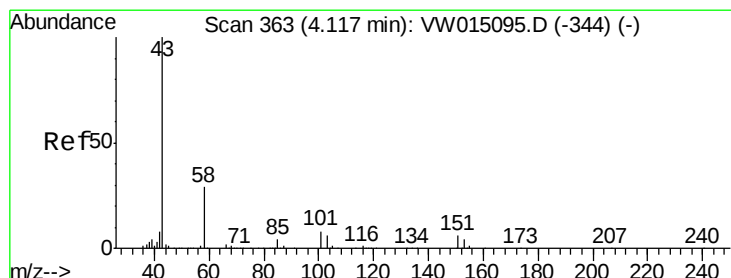
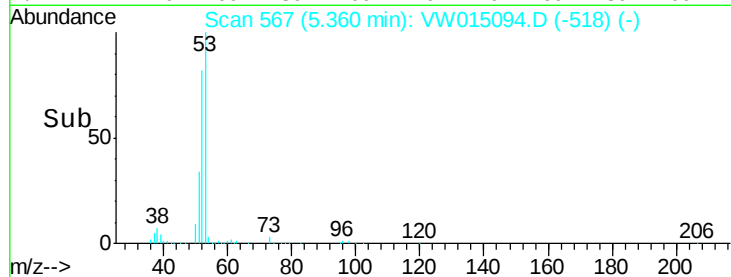
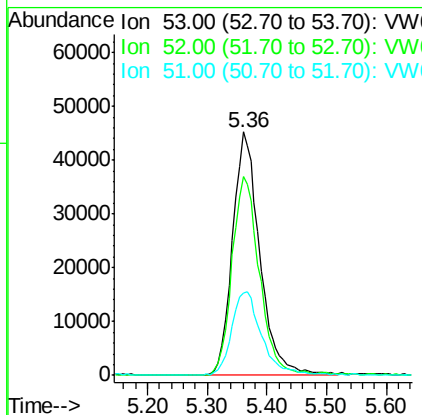
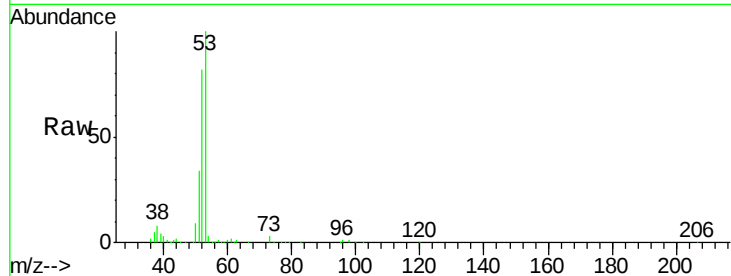
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	144258
Ion Ratio	Lower	Upper	
53	100		
52	81.7	67.2	100.8
51	37.5	29.8	44.6

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#16

Acetone

Concen: 93.526 ug/l

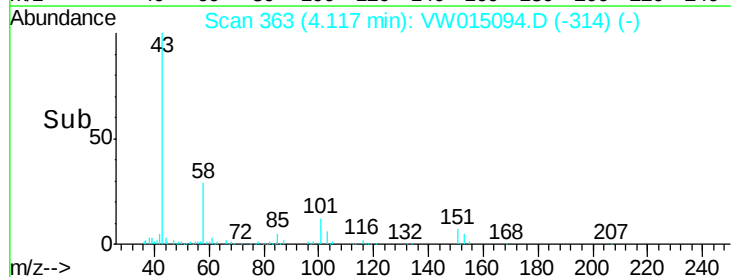
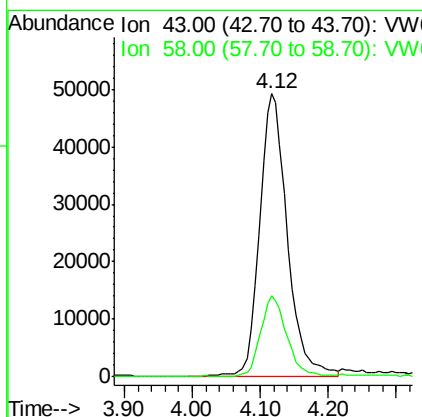
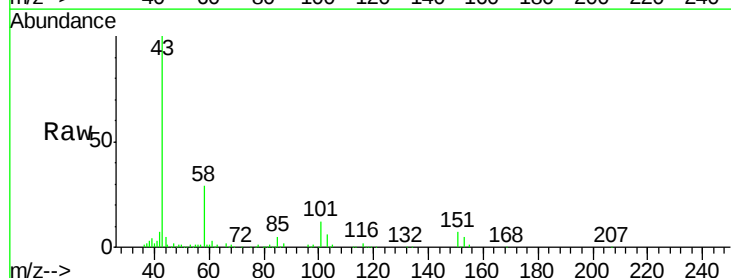
RT: 4.12 min Scan# 363

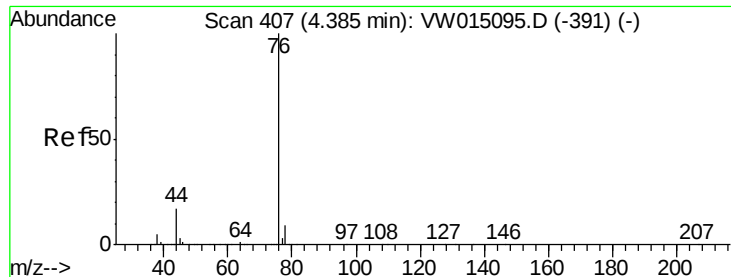
Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion:	43	Resp:	138868
Ion Ratio	Lower	Upper	
43	100		
58	28.5	22.9	34.3





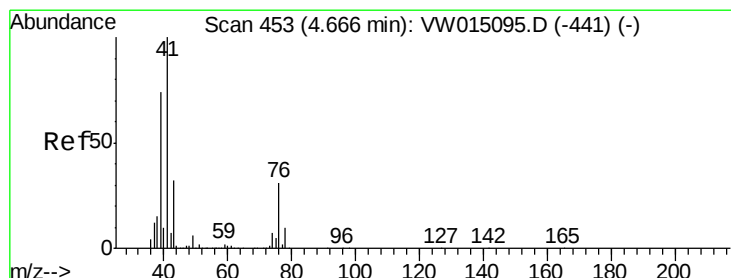
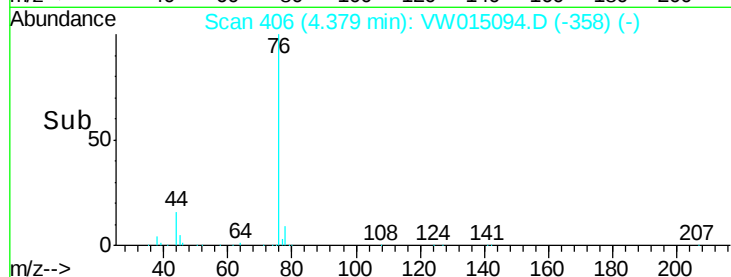
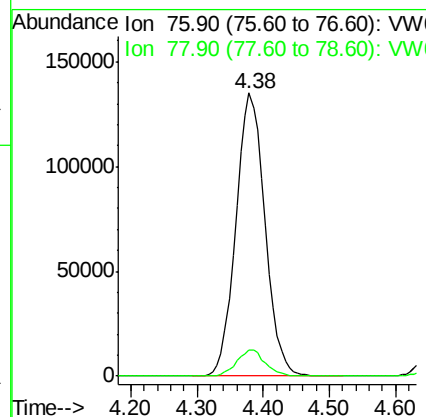
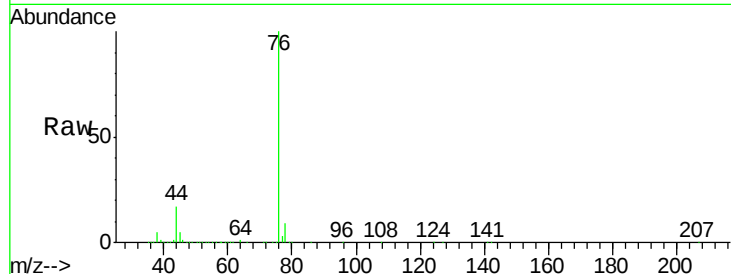
#17
Carbon Disulfide
Concen: 20.632 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.9	10.3

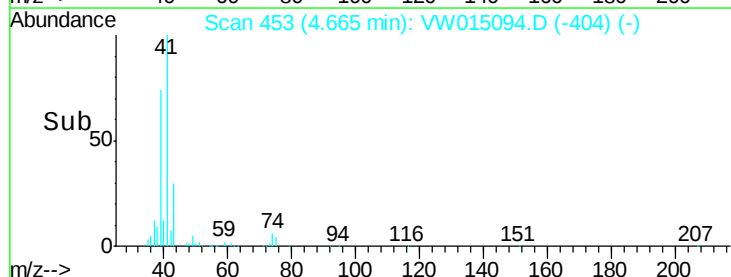
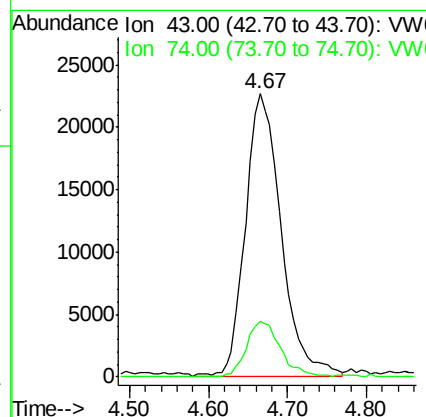
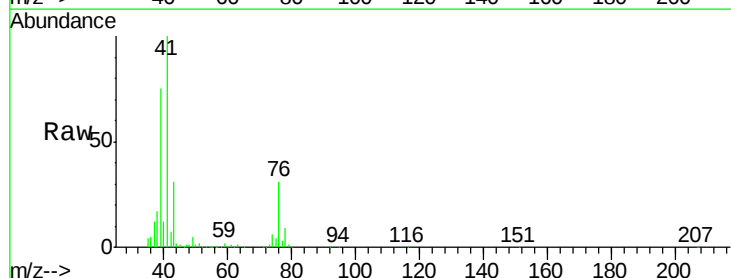
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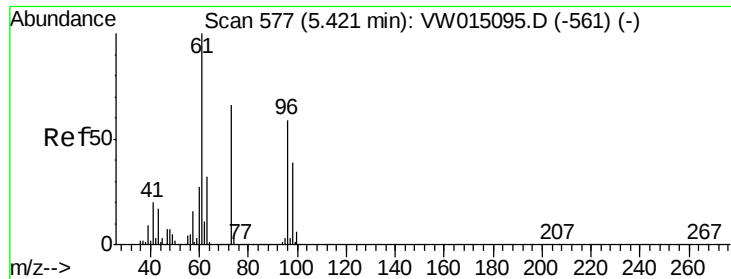
MMDadoda
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#18
Methyl Acetate
Concen: 20.450 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.6	15.8	23.6





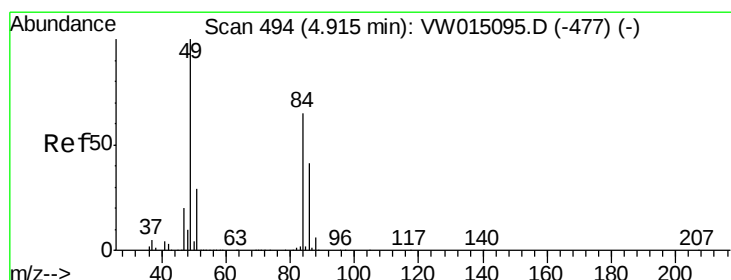
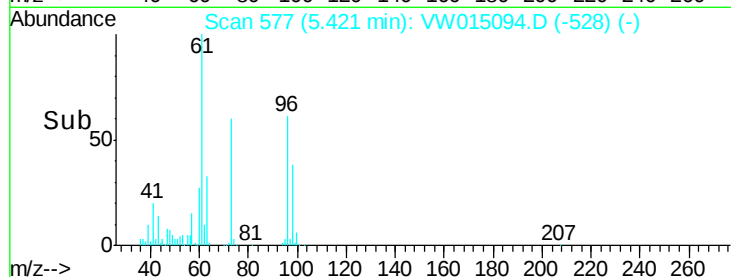
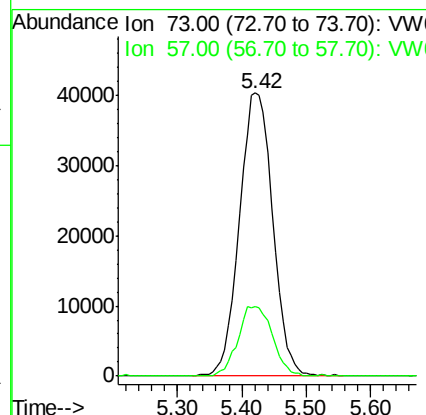
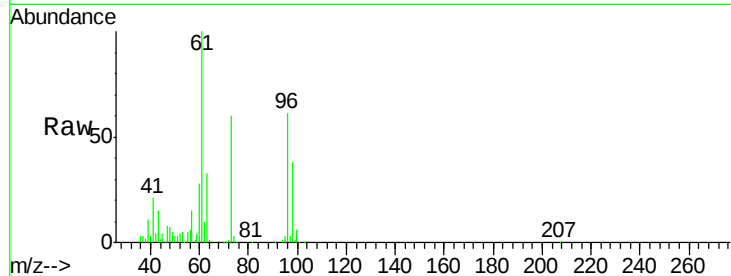
#19
Methyl tert-butyl Ether
Concen: 19.981 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.6	19.3	28.9

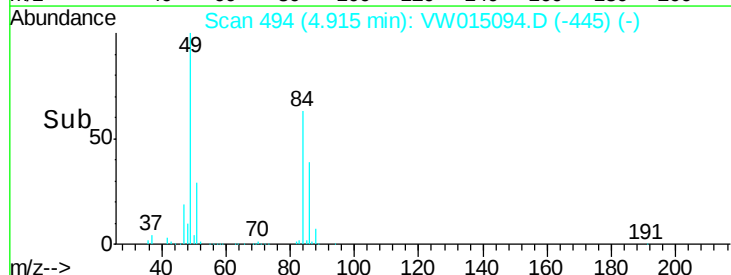
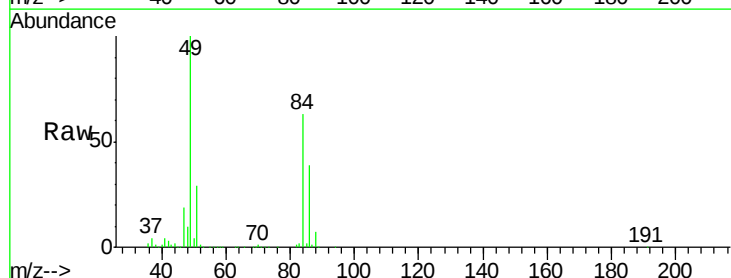
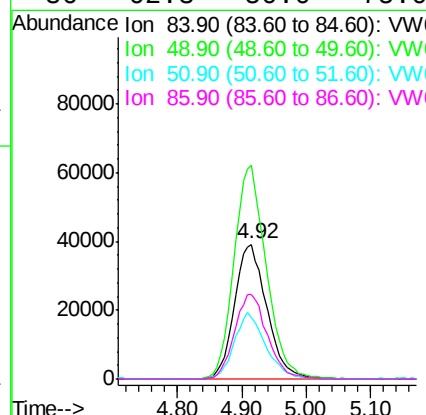
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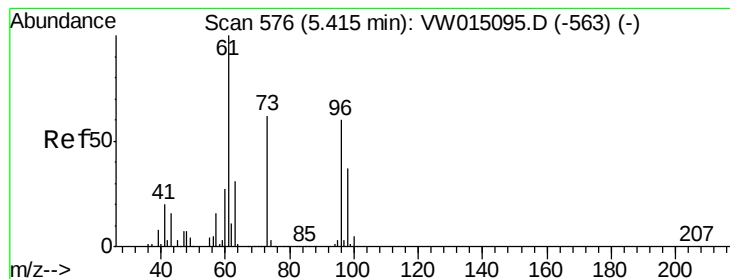
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#20
Methylene Chloride
Concen: 19.906 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
84	100		
49	158.1	122.8	184.2
51	45.9	35.9	53.9
86	62.3	50.0	75.0





#21

trans-1,2-Dichloroethene

Concen: 20.141 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 120308

Ion Ratio Lower Upper

96 100

61 163.5 132.5 198.7

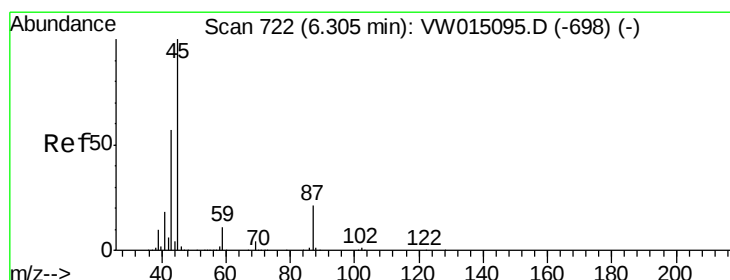
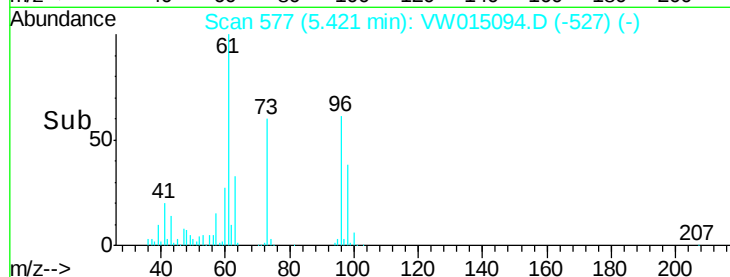
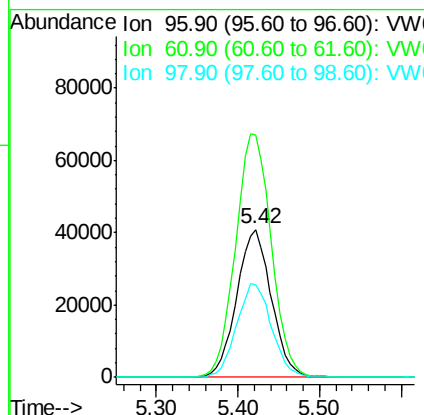
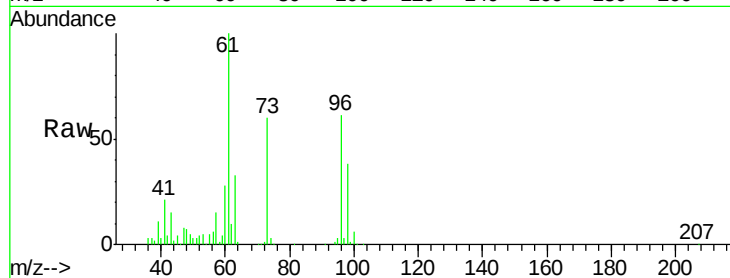
98 62.9 48.9 73.3

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#22

Diisopropyl ether

Concen: 20.988 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion: 45 Resp: 454036

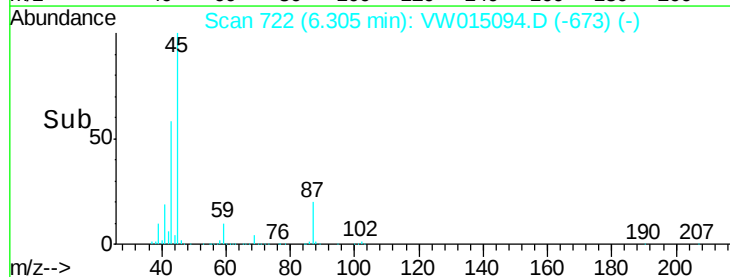
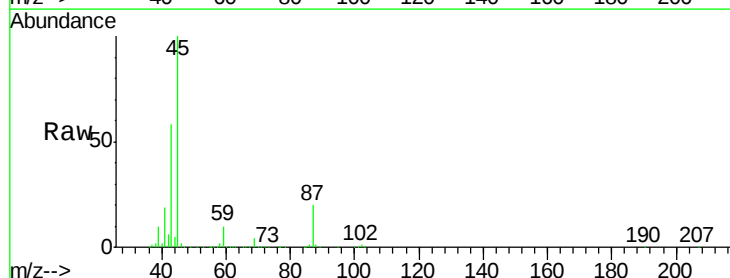
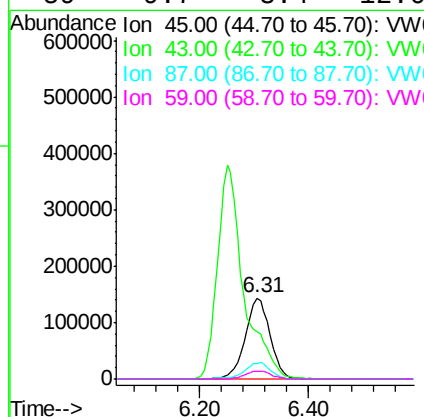
Ion Ratio Lower Upper

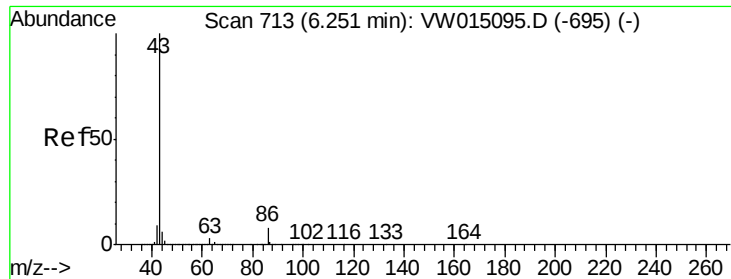
45 100

43 57.8 45.4 68.0

87 19.8 16.4 24.6

59 9.7 8.4 12.6





#23

Vinyl Acetate

Concen: 98.919 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 1263223

Ion Ratio Lower Upper

43 100

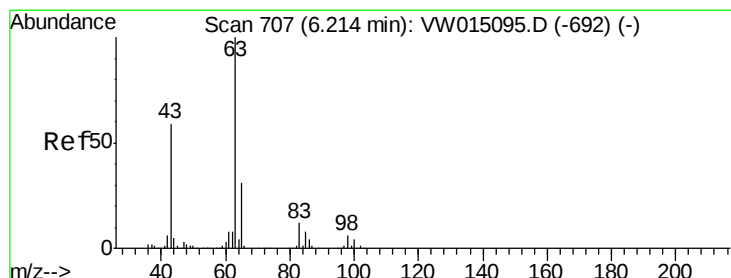
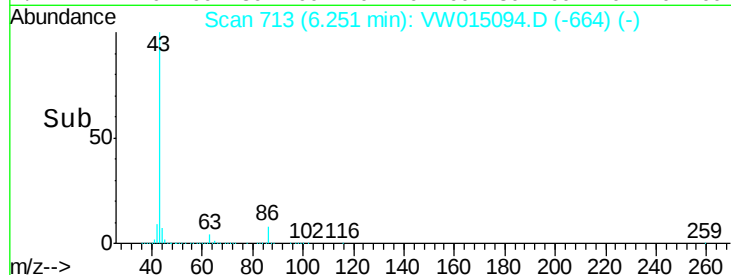
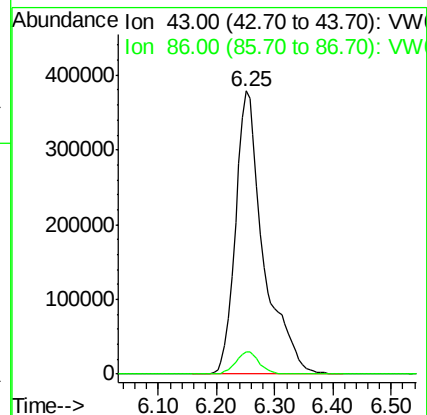
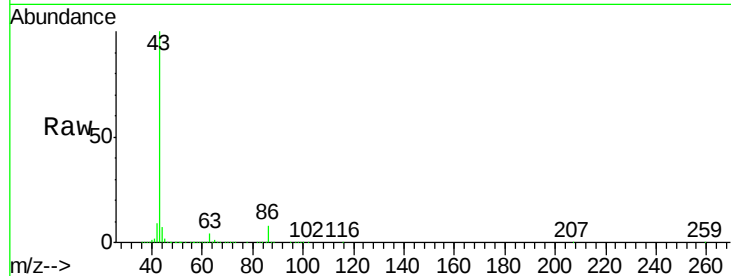
86 7.7 6.3 9.5

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#24

1,1-Dichloroethane

Concen: 20.332 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

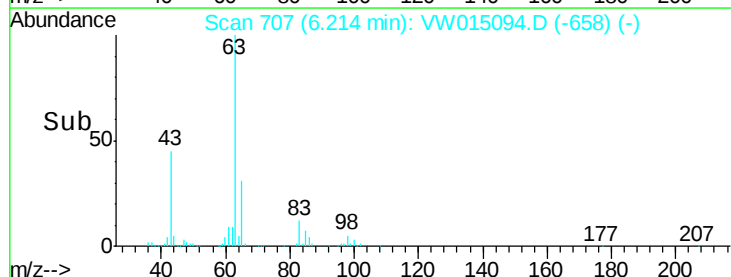
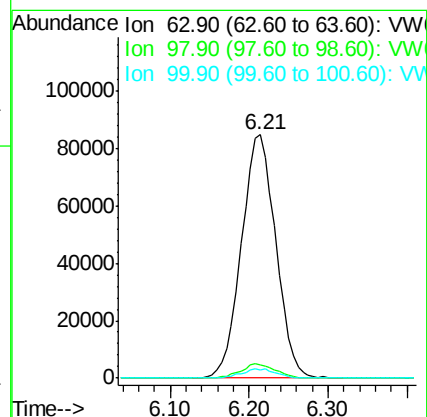
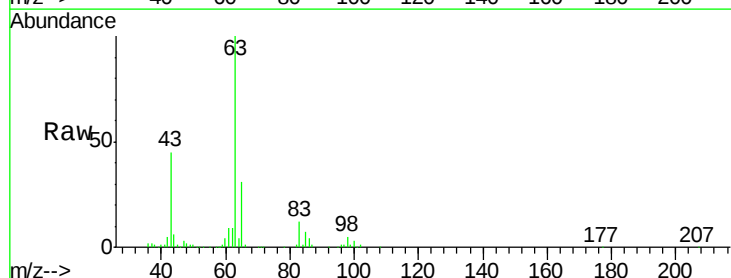
Tgt Ion: 63 Resp: 256491

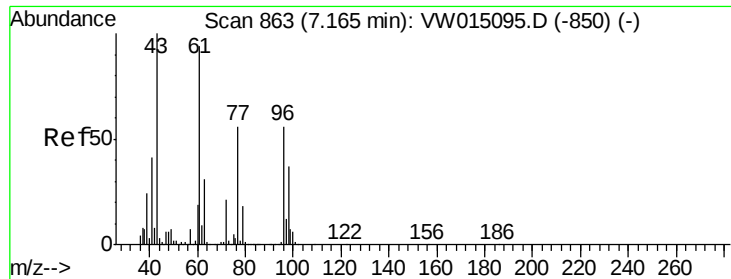
Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.8

100 3.5 2.1 6.3





#25

2-Butanone

Concen: 94.135 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 191613

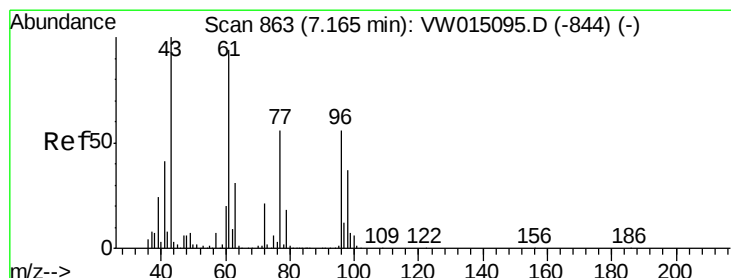
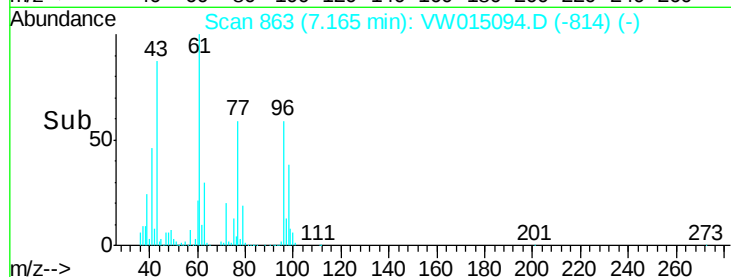
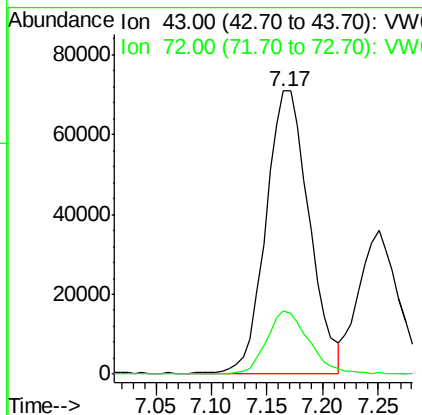
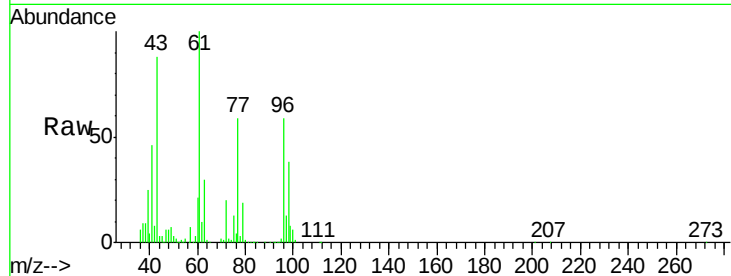
Ion Ratio Lower Upper

43 100

72 22.6 17.0 25.6

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#26

2,2-Dichloropropane

Concen: 20.086 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW015094.D

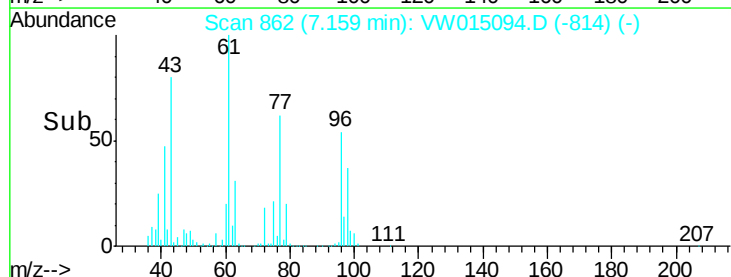
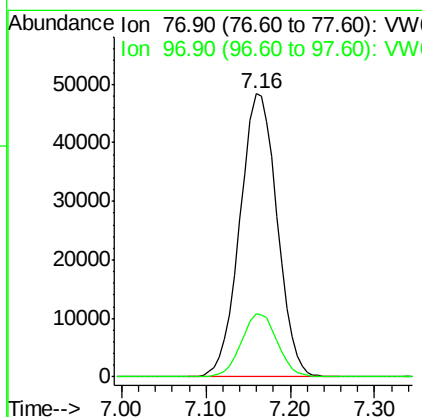
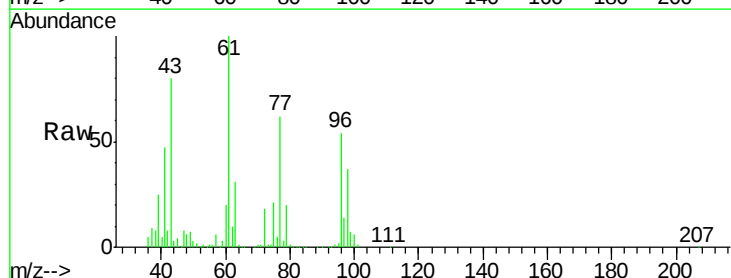
Acq: 09 Mar 2020 11:28

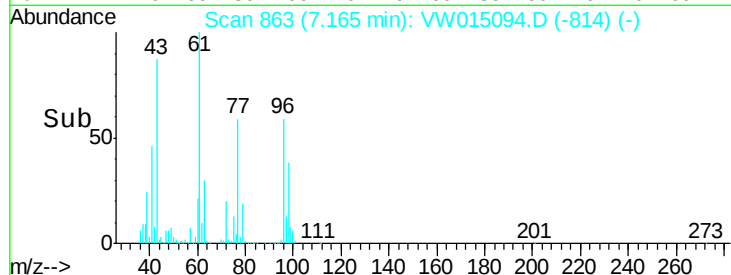
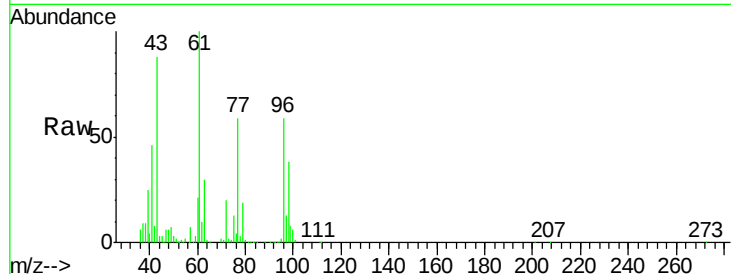
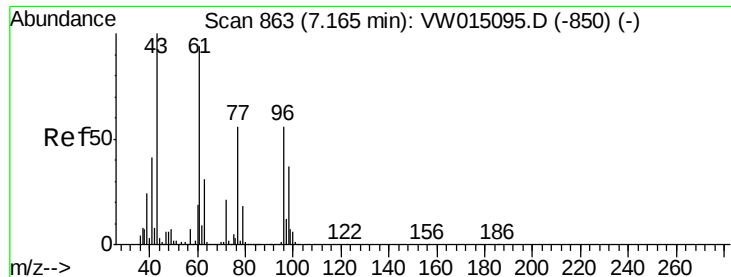
Tgt Ion: 77 Resp: 144923

Ion Ratio Lower Upper

77 100

97 21.5 10.6 31.8





#27

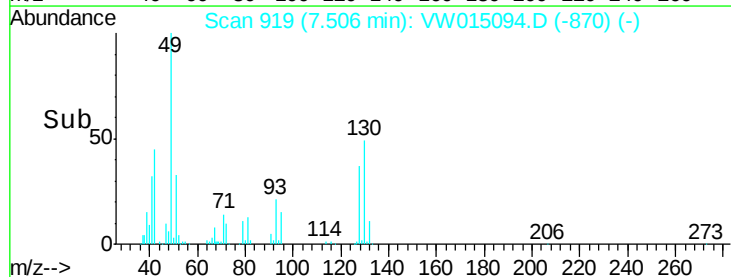
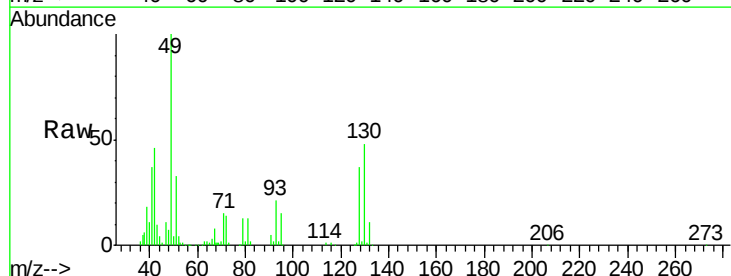
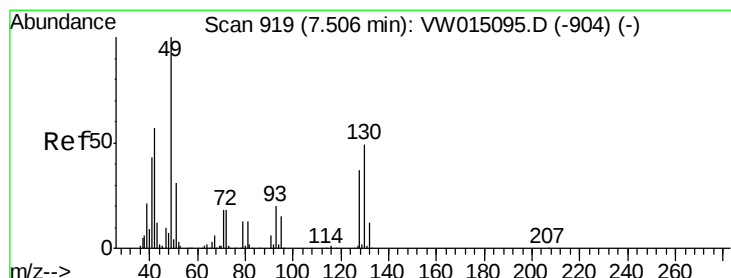
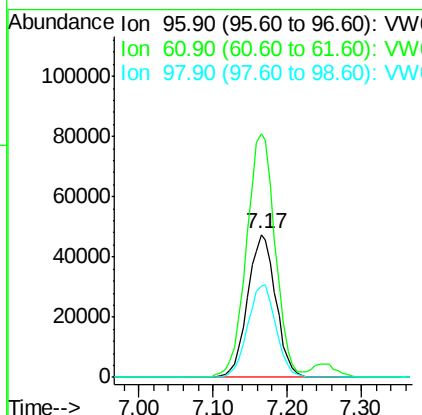
cis-1,2-Dichloroethene
Concen: 20.185 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tot Ion	Ratio	Resp	Lower	Upper
96	100	125523		
61	174.3	0.0	343.4	
98	65.0	0.0	127.6	

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Manual Integrations
APPROVED

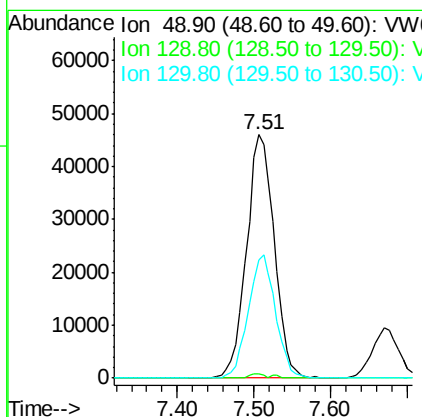
MMDadoda
3/11/2020 3:23:56 PM

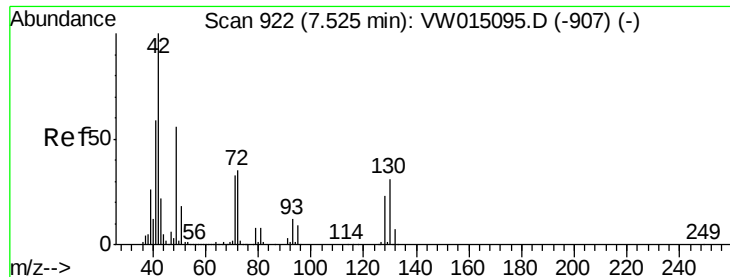


#28

Bromochloromethane
Concen: 19.273 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	116499		
129	0.9	0.0	3.0	
130	49.5	39.8	59.6	





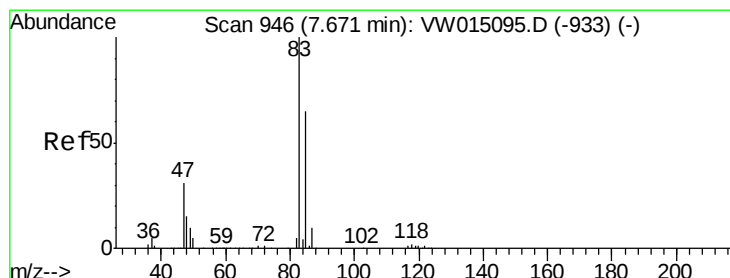
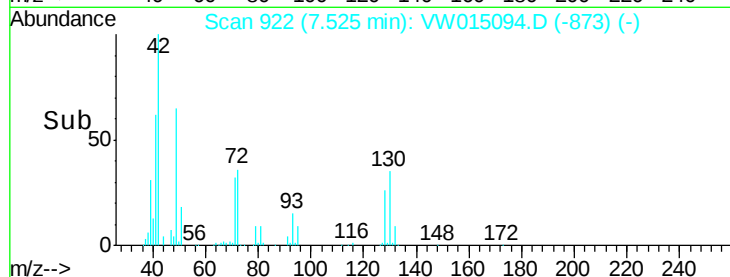
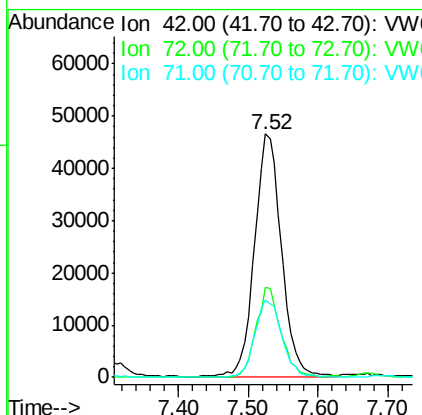
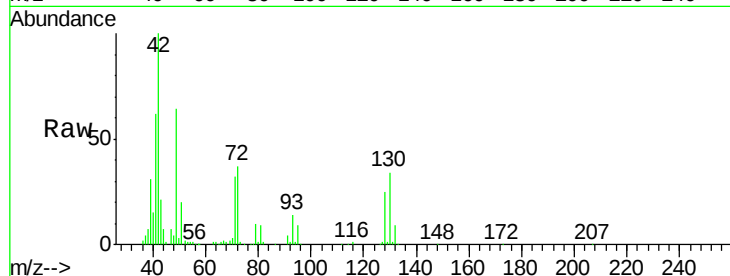
#29
Tetrahydrofuran
Concen: 97.330 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.1	27.8	41.6
71	32.1	26.4	39.6

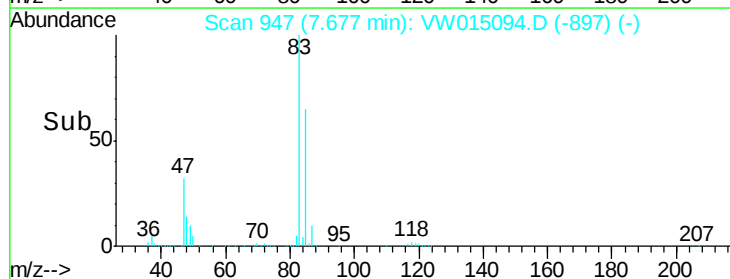
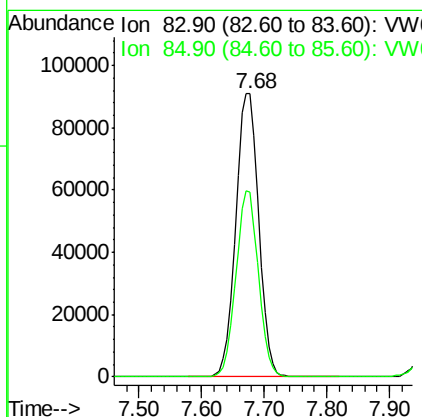
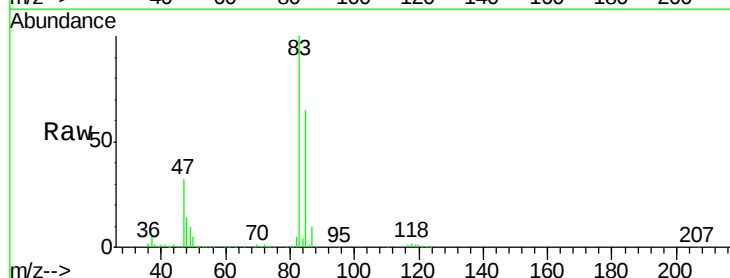
Manual Integrations
APPROVED

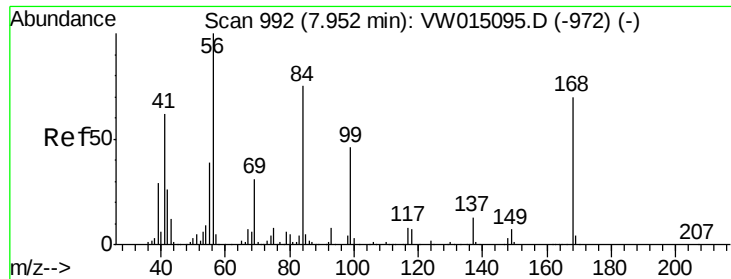
MMDadoda
3/11/2020 3:23:56 PM



#30
Chloroform
Concen: 20.541 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.9	77.9





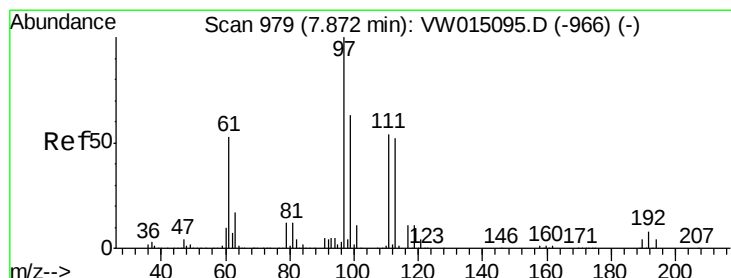
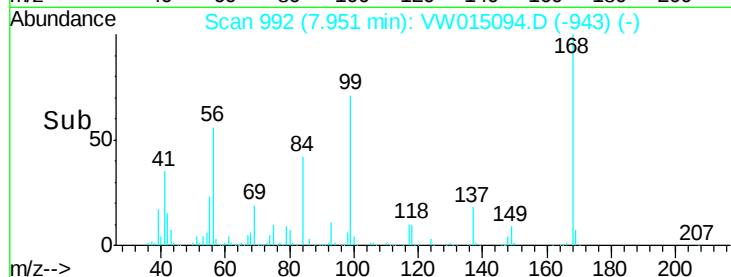
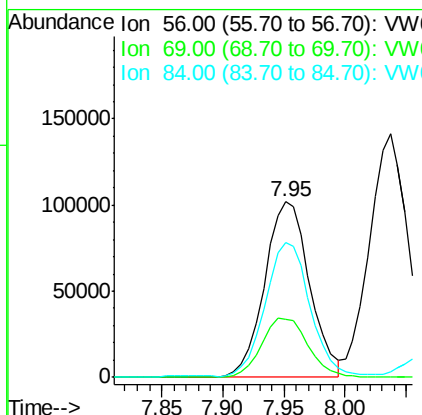
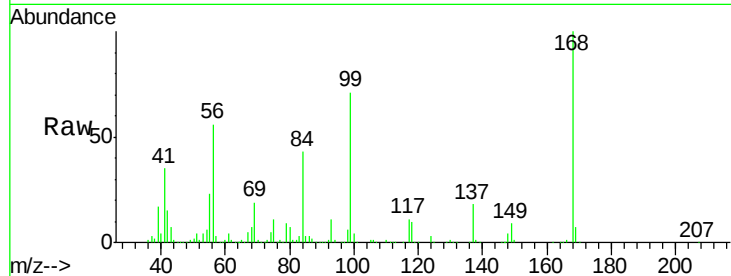
#31
Cyclohexane
Concen: 20.148 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.1	24.6	37.0
84	75.6	59.9	89.9

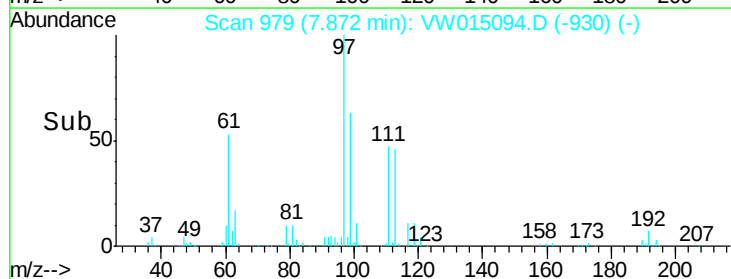
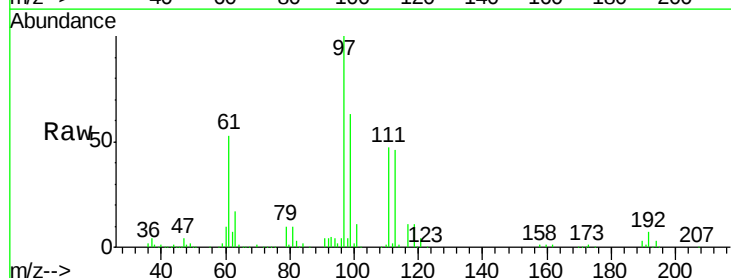
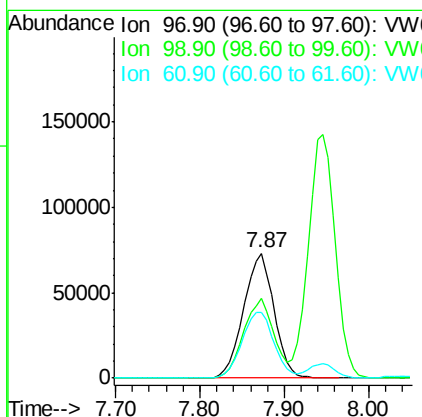
Manual Integrations
APPROVED

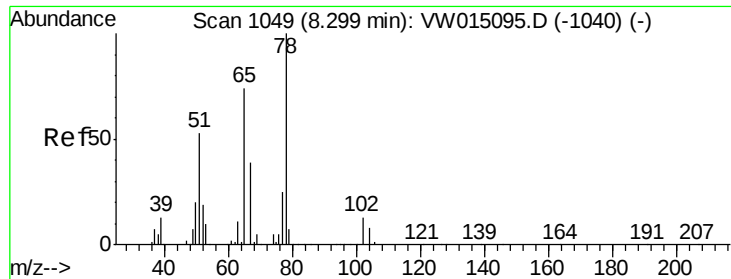
MMDadoda
3/11/2020 3:23:56 PM



#32
1,1,1-Trichloroethane
Concen: 20.428 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	55.6	44.0	66.0





#33

1,2-Dichloroethane-d4

Concen: 19.342 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 125930

Ion Ratio Lower Upper

65 100

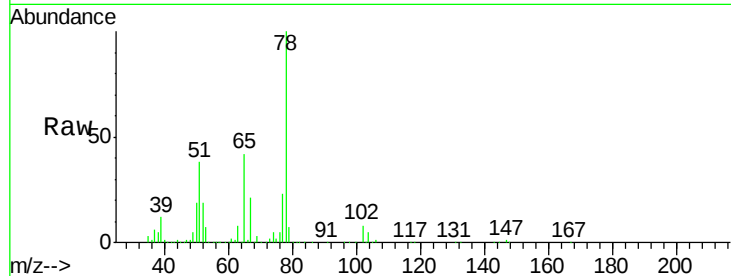
67 53.0 0.0 105.0

Manual Integrations

APPROVED

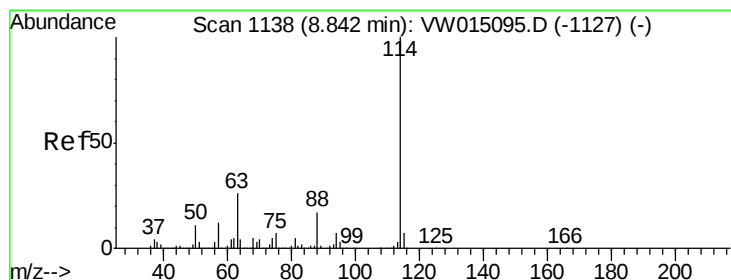
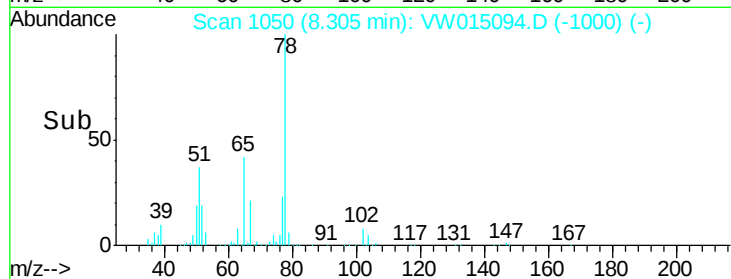
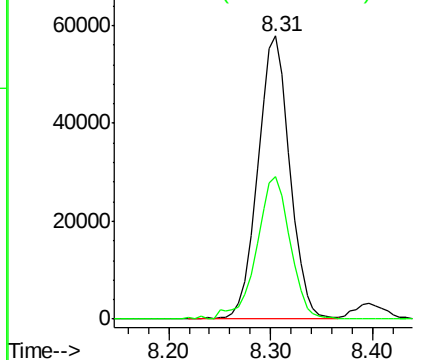
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

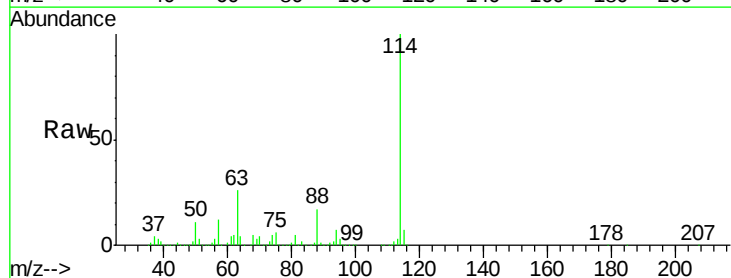
Tgt Ion: 114 Resp: 799194

Ion Ratio Lower Upper

114 100

63 26.4 0.0 52.0

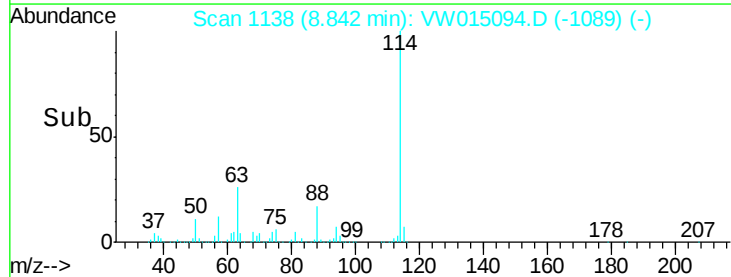
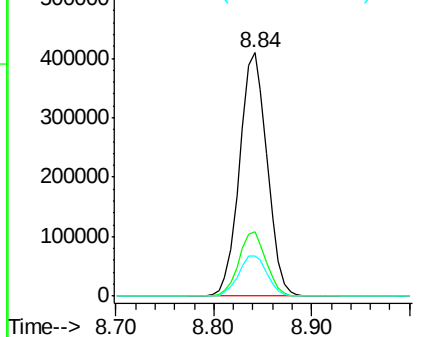
88 16.6 0.0 34.2

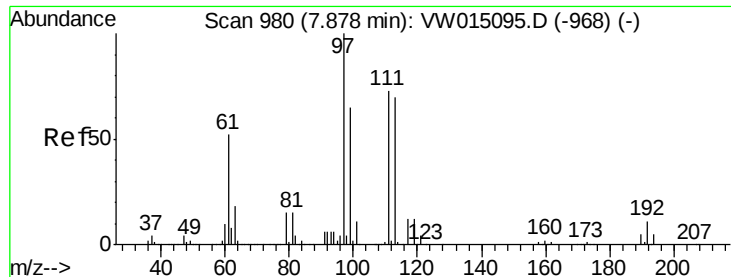


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





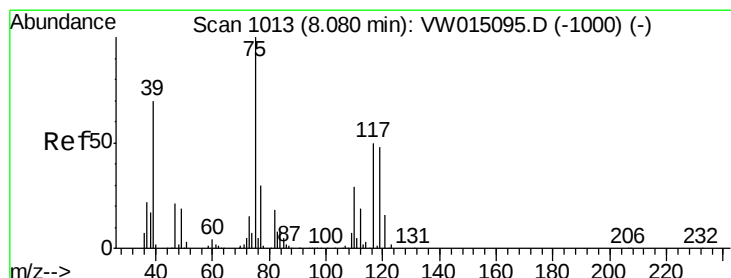
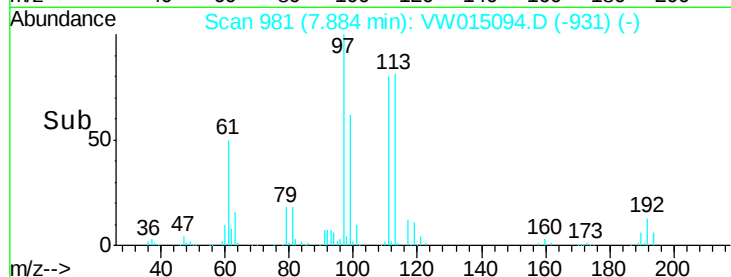
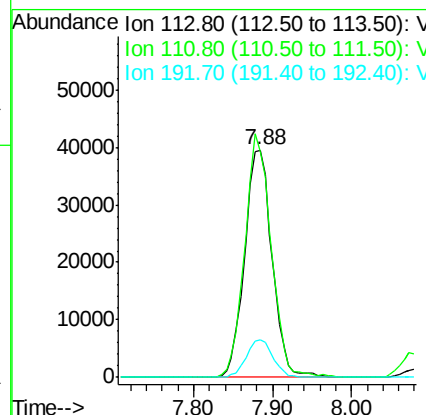
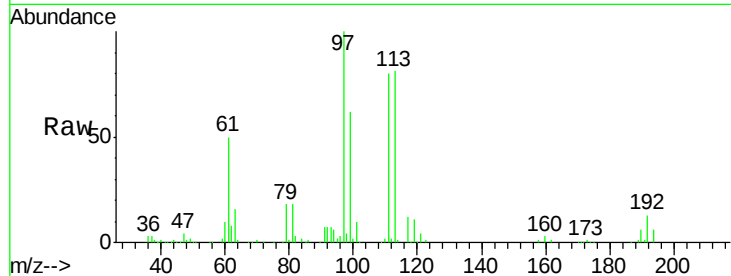
#35
Dibromofluoromethane
Concen: 20.027 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	95821		
111	103.2	83.6	125.4	
192	15.9	12.4	18.6	

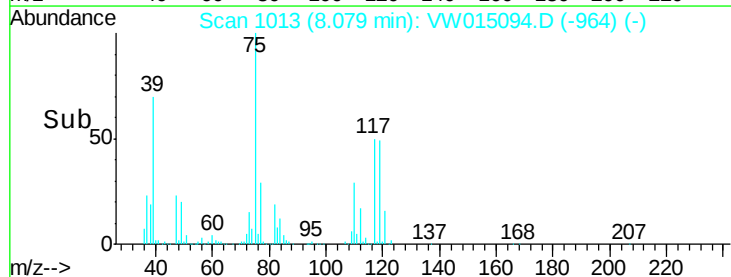
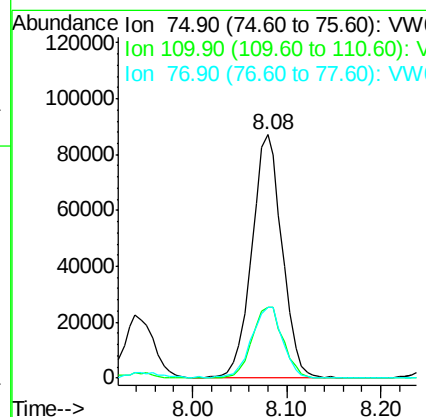
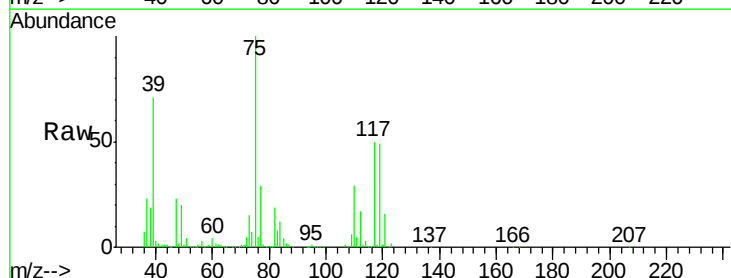
Manual Integrations
APPROVED

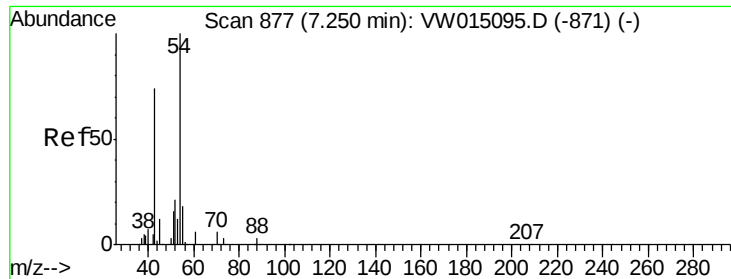
MMDadoda
3/11/2020 3:23:56 PM



#36
1,1-Dichloropropene
Concen: 21.202 ug/l
RT: 8.08 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	196505		
110	29.9	14.7	44.1	
77	30.0	24.2	36.4	





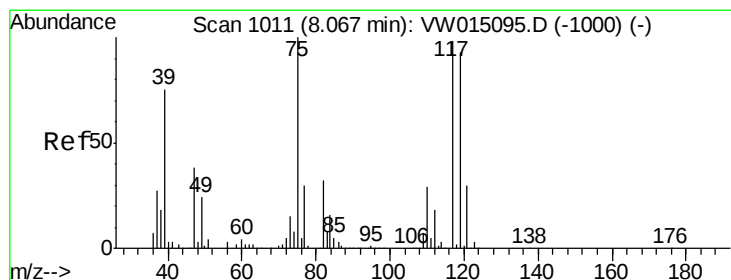
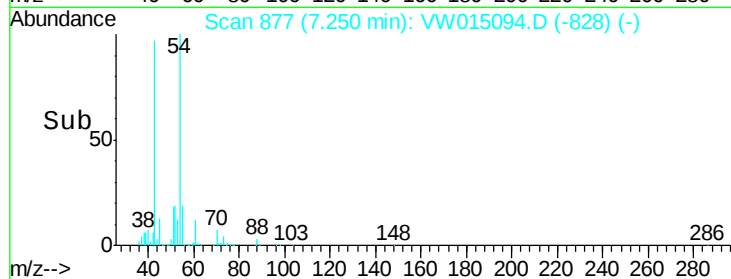
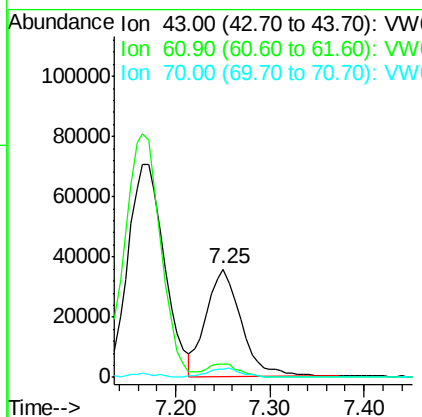
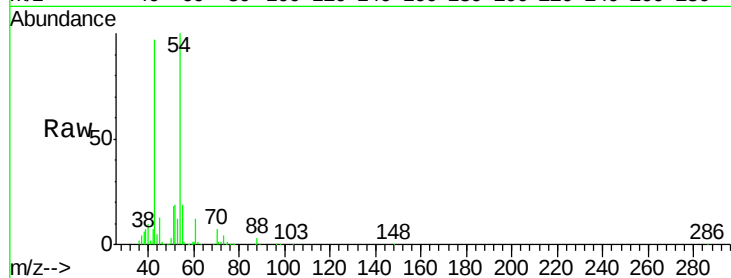
#37
Ethyl Acetate
Concen: 19.898 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.7	9.6	14.4
70	8.4	6.5	9.7

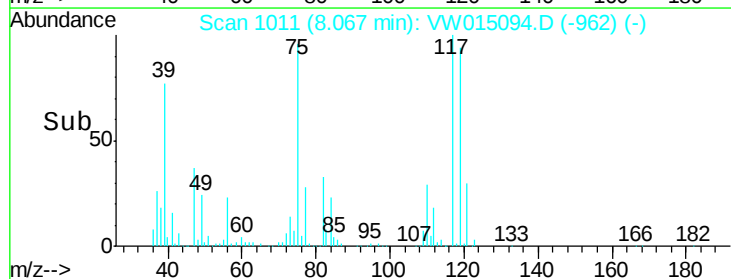
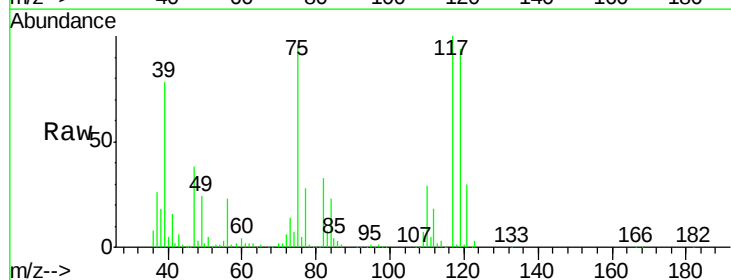
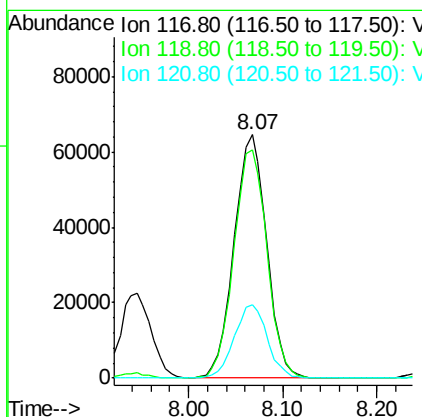
Manual Integrations
APPROVED

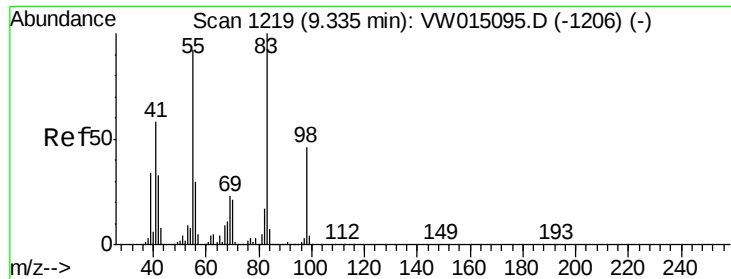
MMDadoda
3/11/2020 3:23:56 PM



#38
Carbon Tetrachloride
Concen: 20.674 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.5	75.8	113.8
121	29.9	24.5	36.7





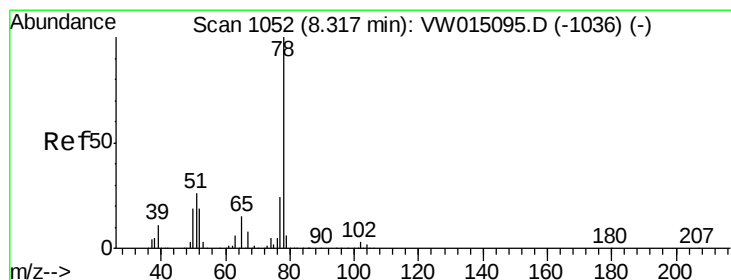
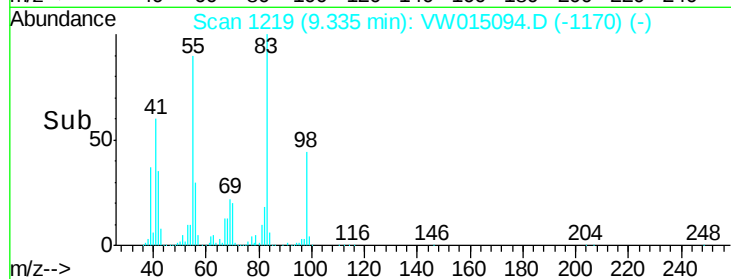
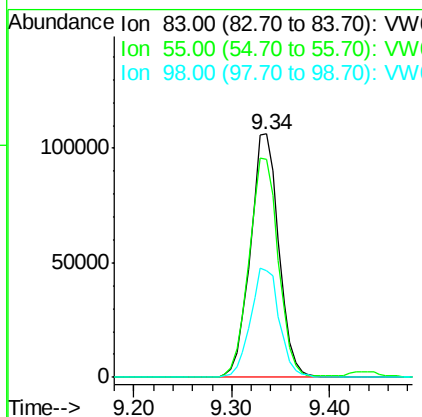
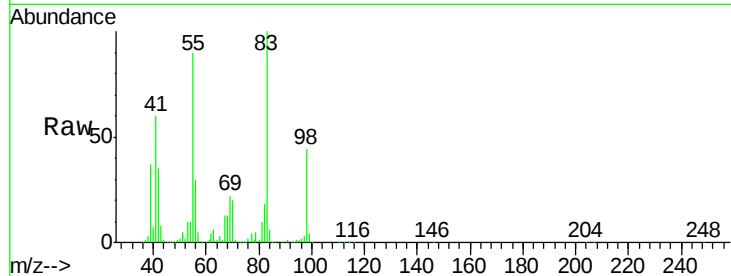
#39
Methvlcvclohexane
Concen: 20.350 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.6	73.5	110.3
98	43.6	37.2	55.8

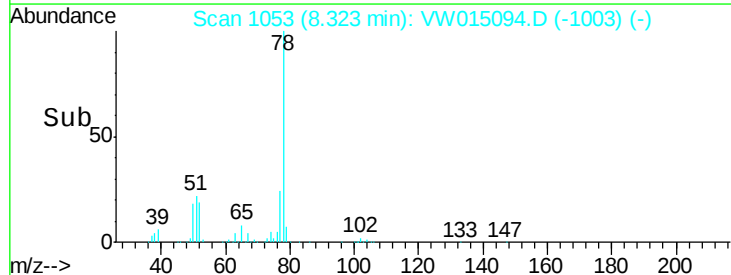
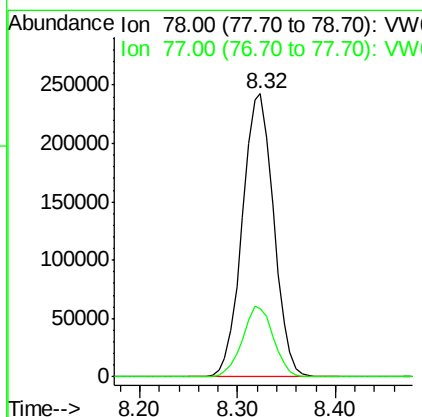
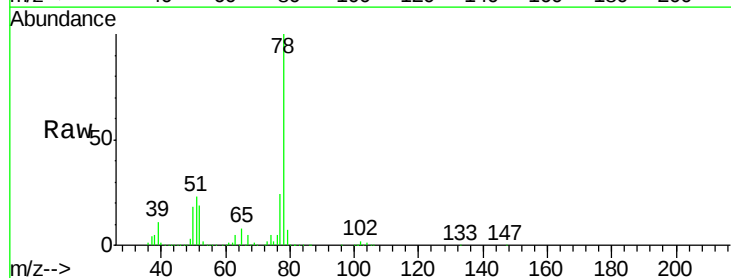
Manual Integrations
APPROVED

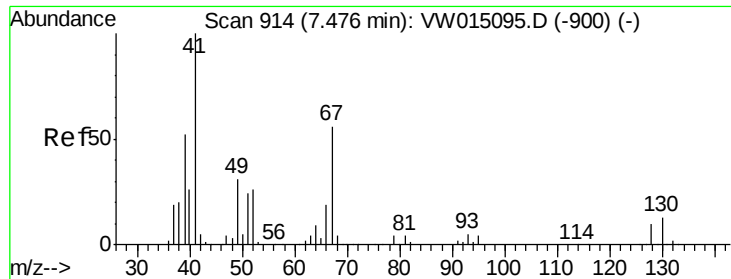
MMDadoda
3/11/2020 3:23:56 PM



#40
Benzene
Concen: 21.011 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.5	29.3





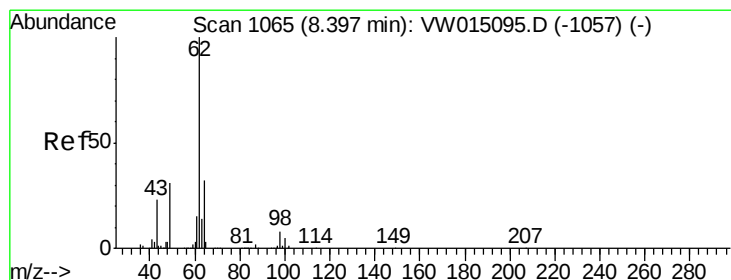
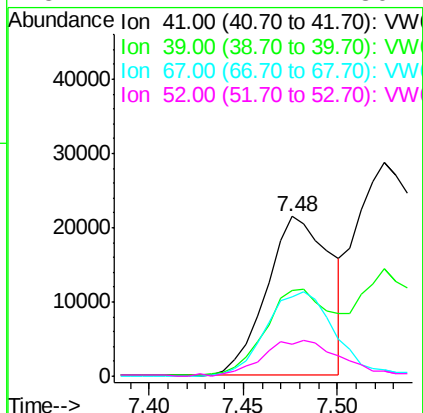
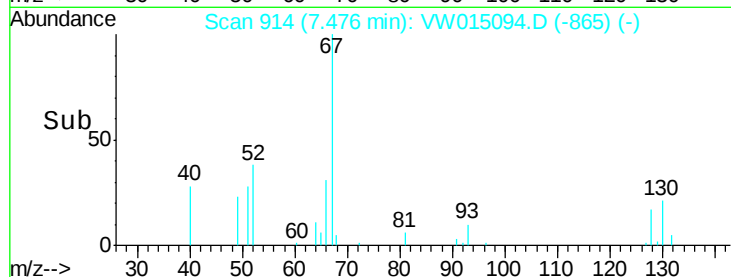
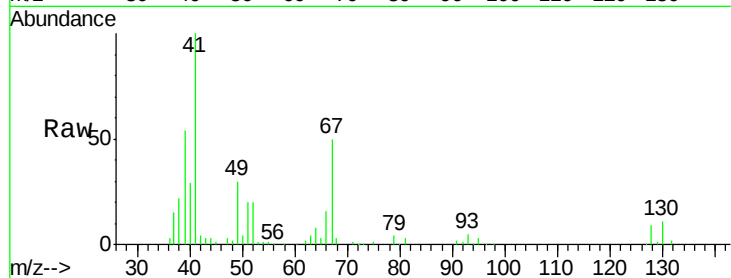
#41
Methacrylonitrile
Concen: 20.647 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	41	Resp	50438
Ion Ratio	Lower	Upper	
41	100		
39	55.1	49.0	73.4
67	58.9	50.4	75.6
52	27.2	24.2	36.4

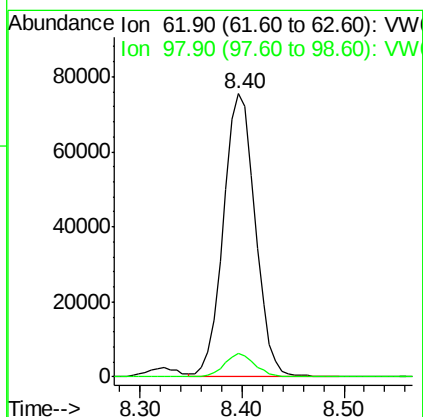
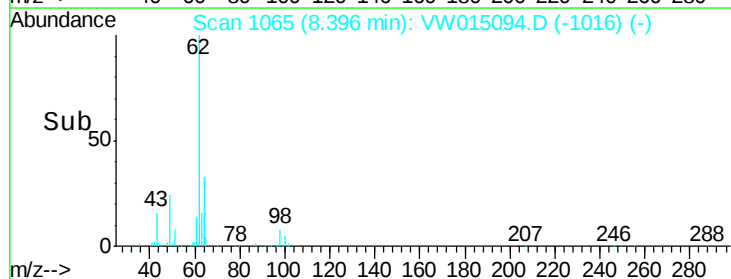
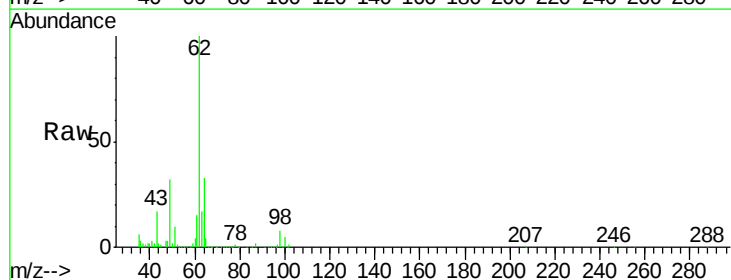
Manual Integrations
APPROVED

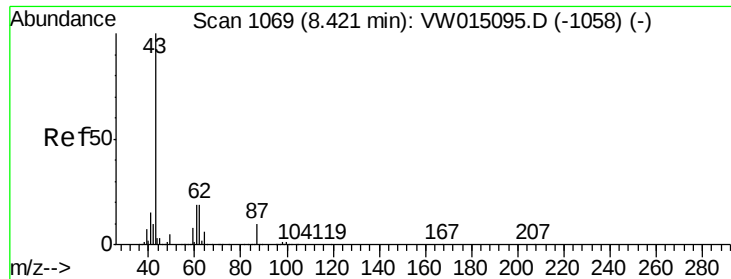
MMDadoda
3/11/2020 3:23:56 PM



#42
1,2-Dichloroethane
Concen: 20.734 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	62	Resp	162701
Ion Ratio	Lower	Upper	
62	100		
98	8.0	0.0	16.0





#43

Isopropyl Acetate

Concen: 19.613 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

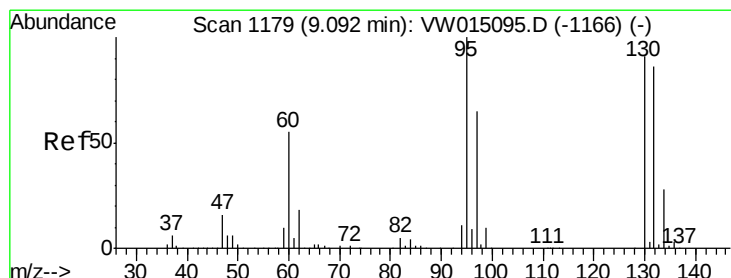
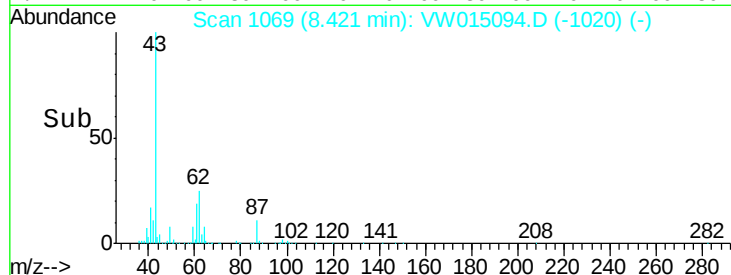
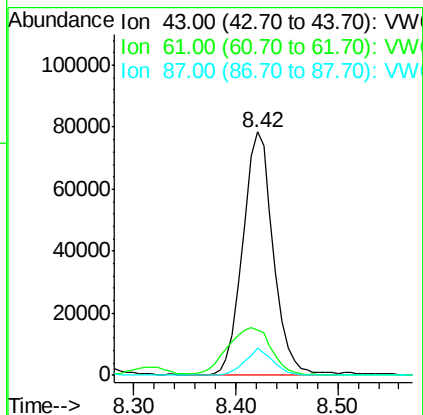
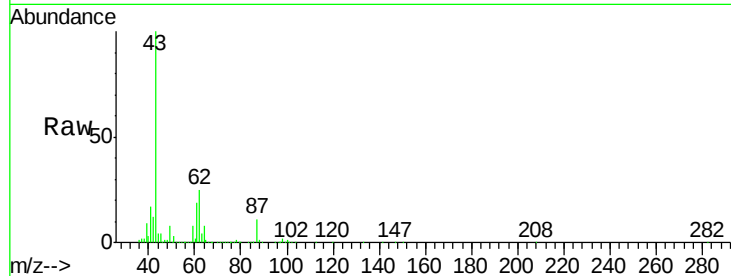
ClientSampled :

VSTDIC020

Tot Ion:	43	Resp:	162416
Ion	Ratio	Lower	Upper
43	100		
61	28.3	21.8	32.8
87	10.2	8.0	12.0

Manual Integrations
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#44

Trichloroethene

Concen: 20.537 ug/l

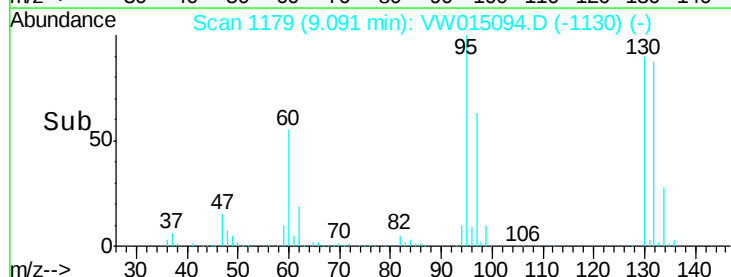
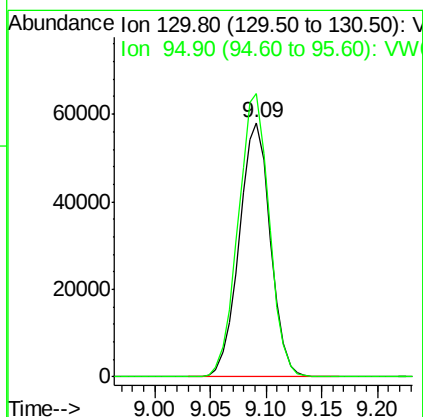
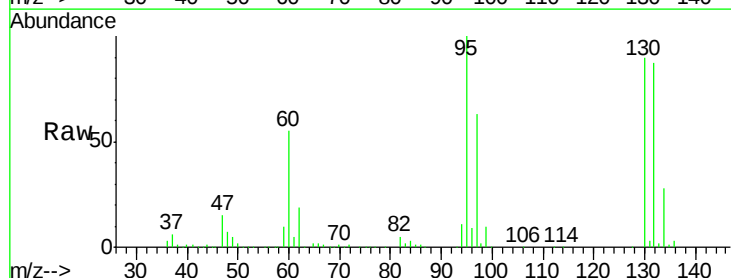
RT: 9.09 min Scan# 1179

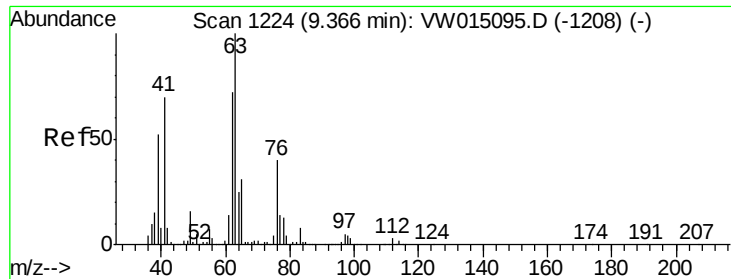
Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion:	130	Resp:	112593
Ion	Ratio	Lower	Upper
130	100		
95	111.4	0.0	219.8





#45

1,2-Dichloropropane

Concen: 20.842 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 144568

Ion Ratio Lower Upper

63 100

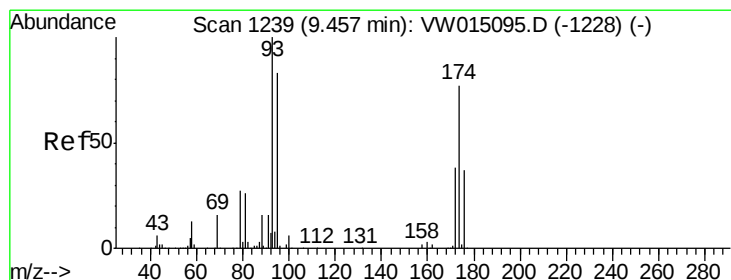
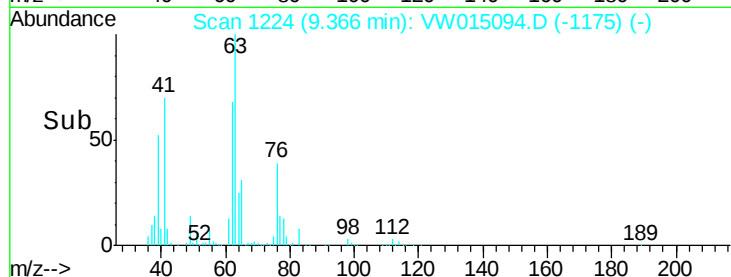
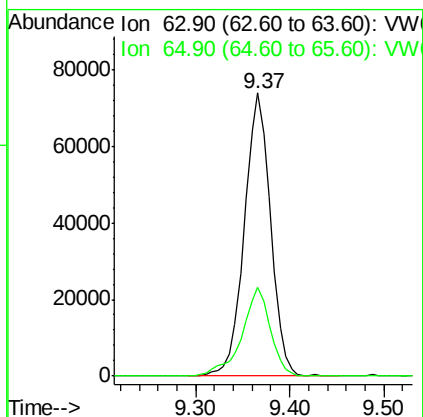
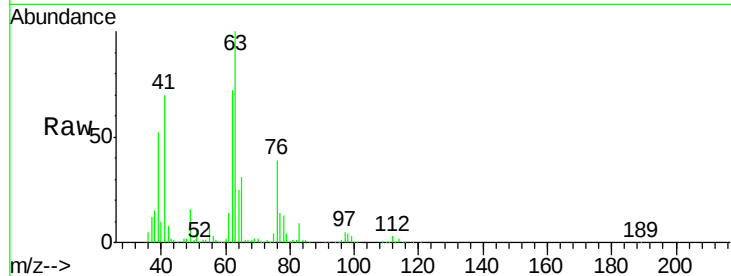
65 31.4 24.6 36.8

Manual Integrations

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#46

Dibromomethane

Concen: 20.941 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

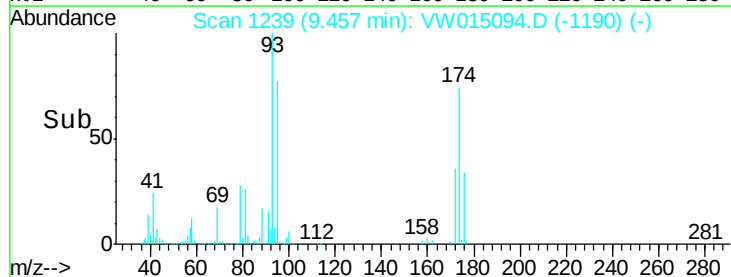
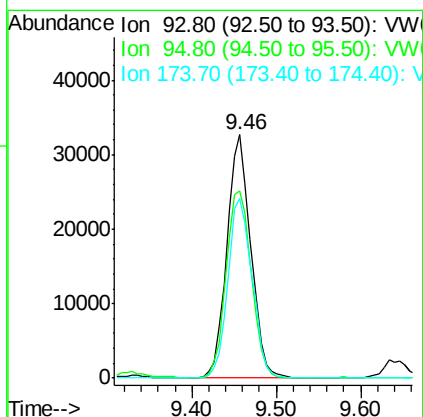
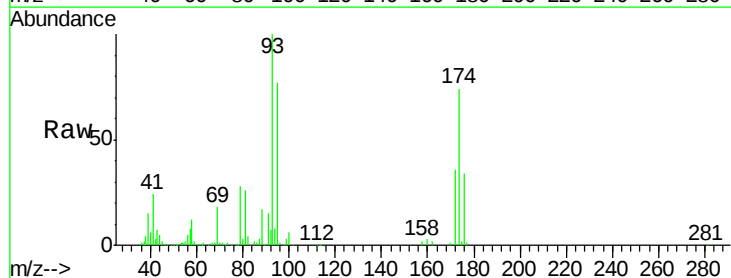
Tgt Ion: 93 Resp: 63159

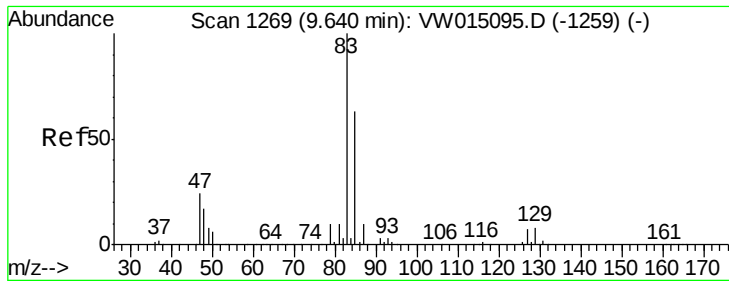
Ion Ratio Lower Upper

93 100

95 82.1 66.6 100.0

174 74.5 60.6 91.0





#47

Bromodichloromethane

Concen: 20.671 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 166448

Ion Ratio Lower Upper

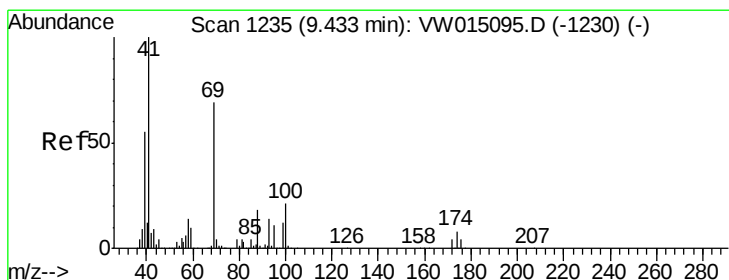
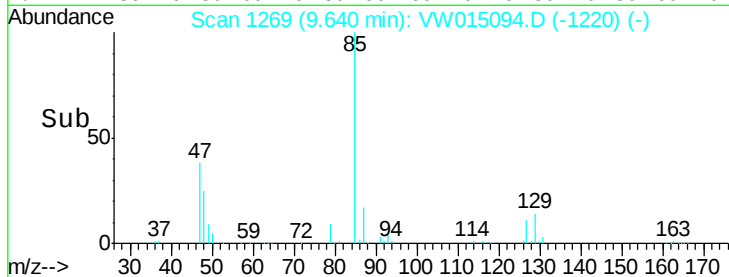
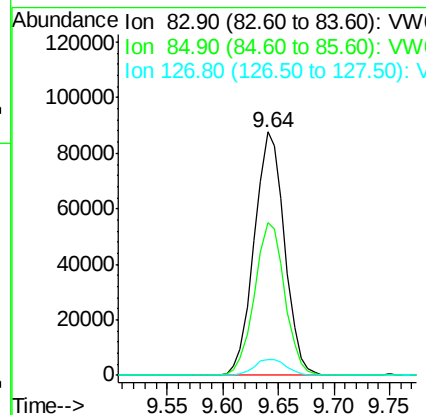
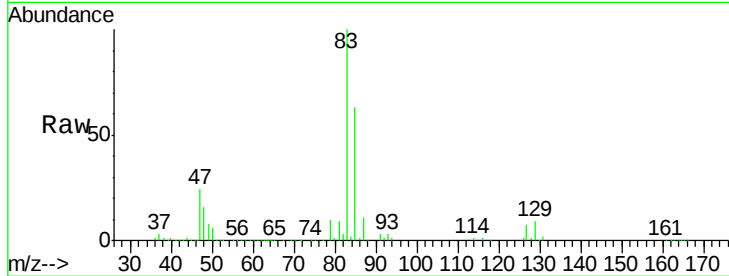
83 100

85 62.8 50.7 76.1

127 6.6 5.5 8.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.997 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

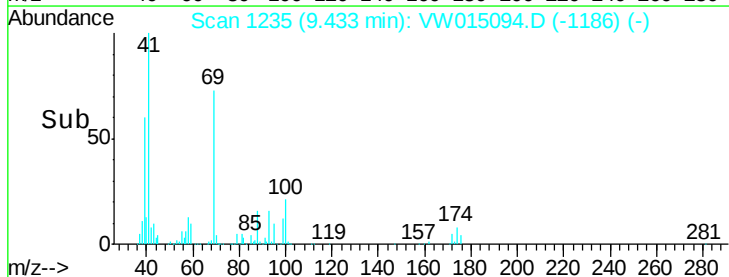
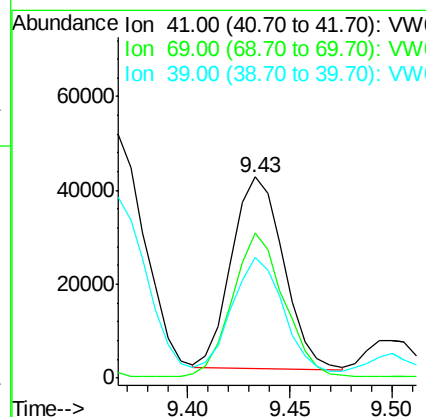
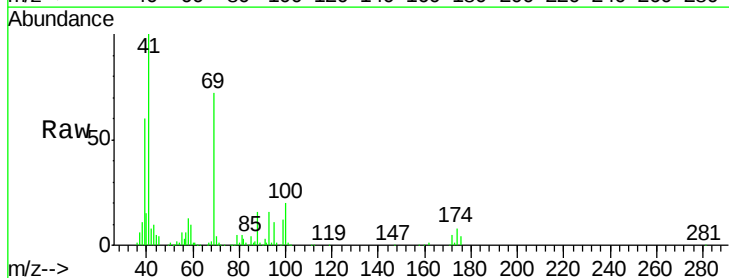
Tgt Ion: 41 Resp: 72604

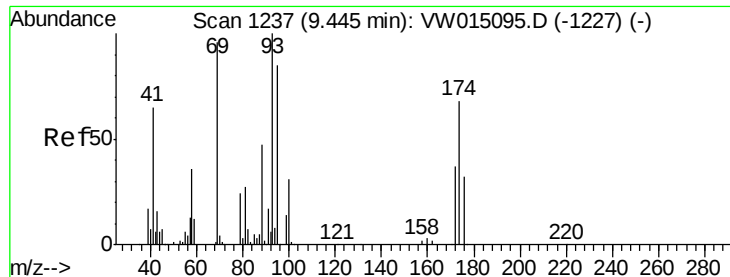
Ion Ratio Lower Upper

41 100

69 76.3 58.7 88.1

39 57.8 45.1 67.7





#49

1,4-Dioxane

Concen: 403.469 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 18631

Ion Ratio Lower Upper

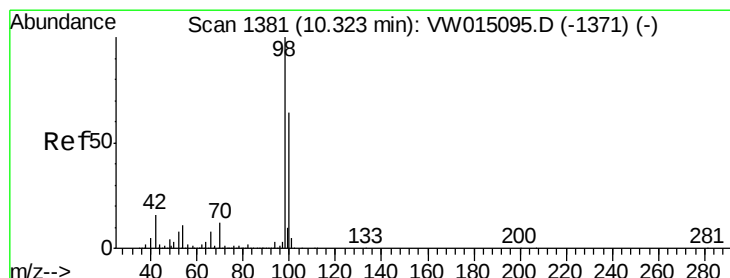
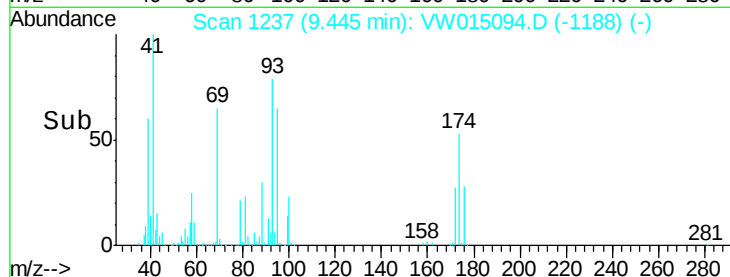
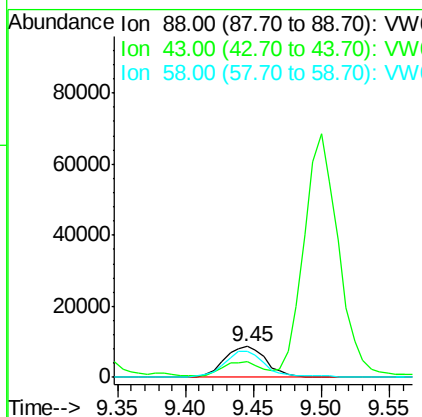
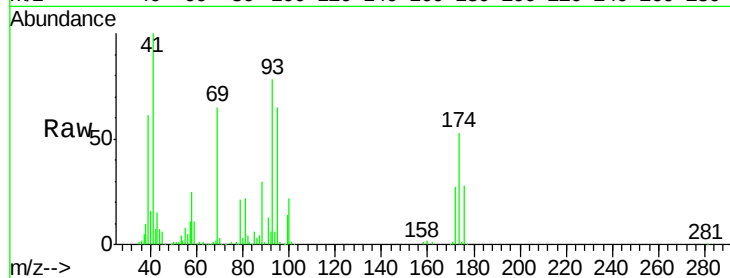
88 100

43 44.0 35.8 53.8

58 81.9 64.0 96.0

Manual Integrations
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#50

Toluene-d8

Concen: 19.950 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW015094.D

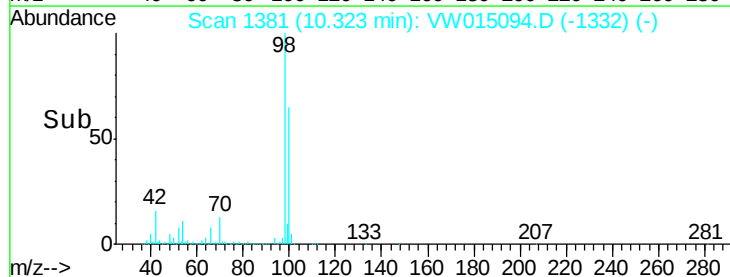
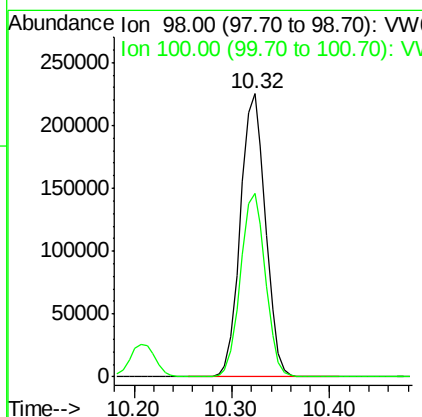
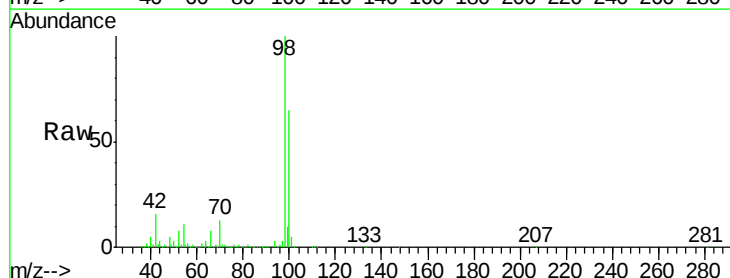
Acq: 09 Mar 2020 11:28

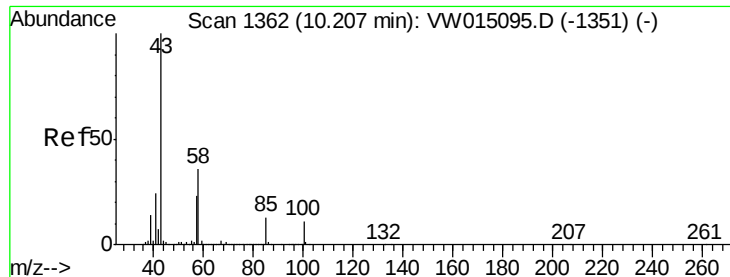
Tgt Ion: 98 Resp: 399733

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2





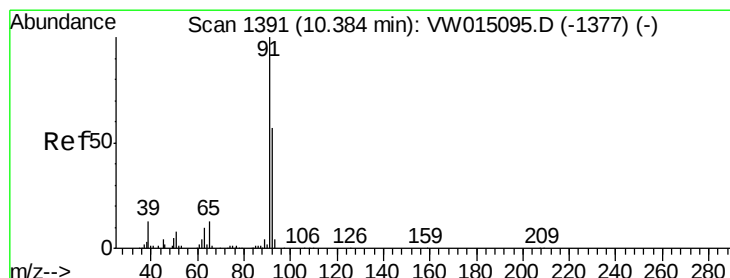
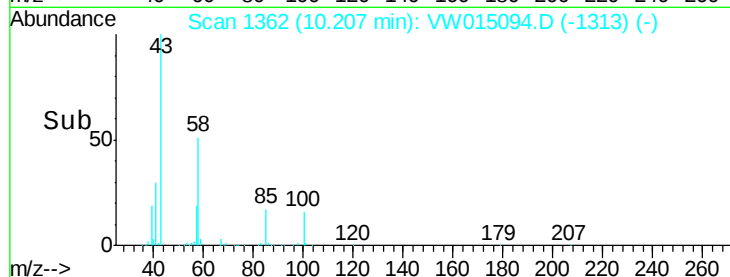
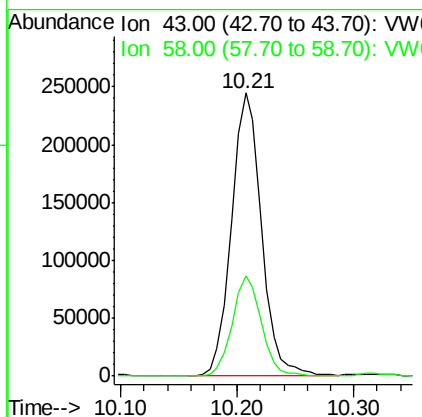
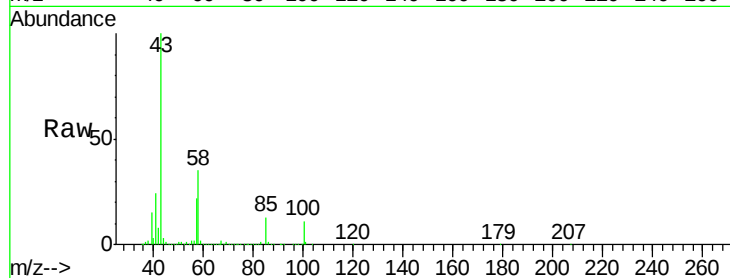
#51
4-Methyl-2-Pentanone
Concen: 95.792 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	34.5	28.0	42.0

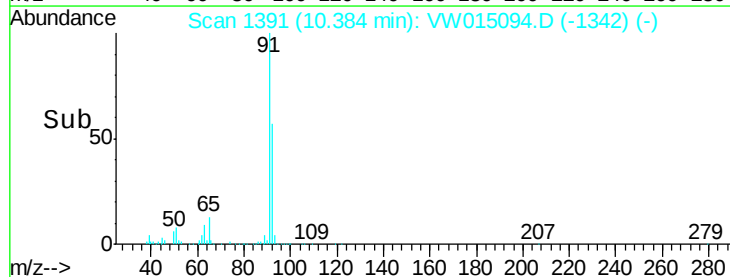
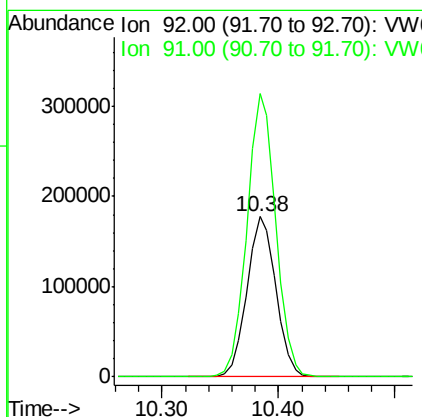
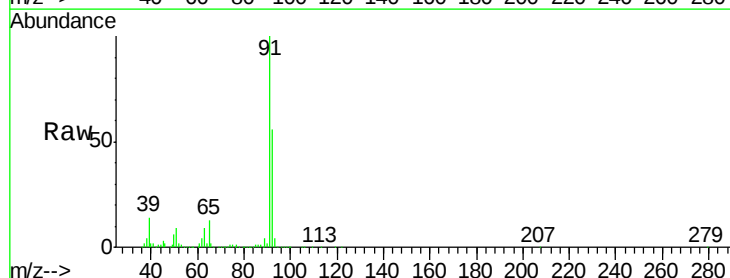
Manual Integrations
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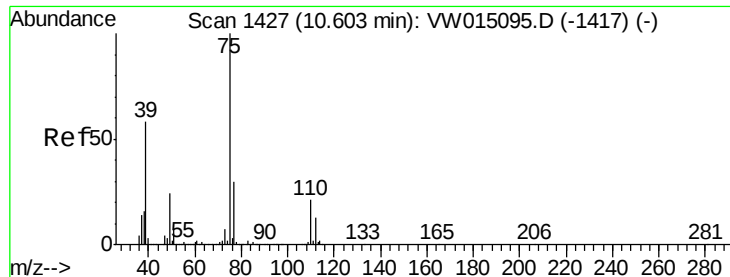
MMDadoda
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#52
Toluene
Concen: 20.843 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.4	138.9	208.3





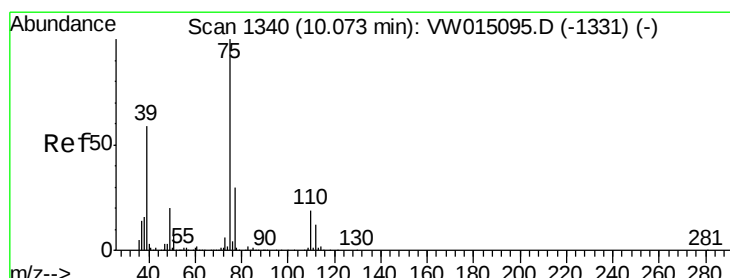
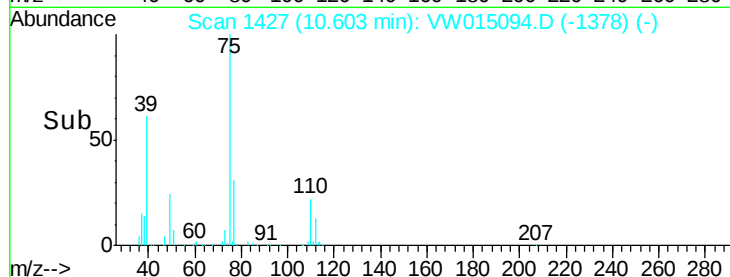
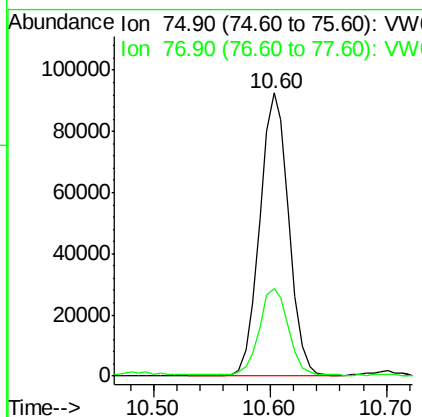
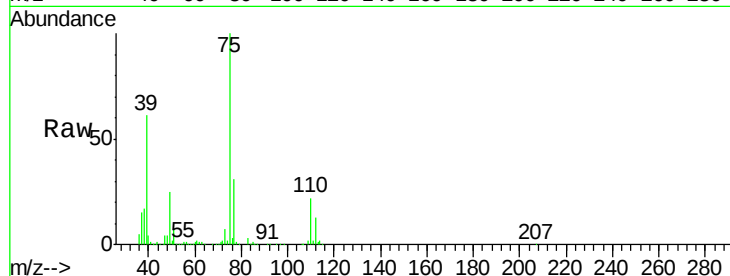
#53
t-1,3-Dichloropropene
Concen: 20.235 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.3	24.4	36.6

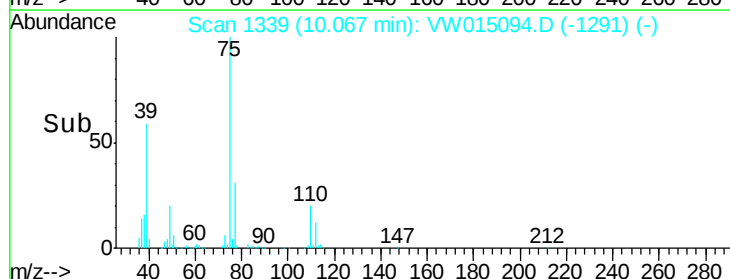
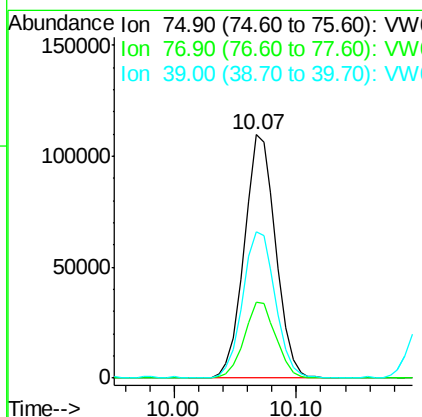
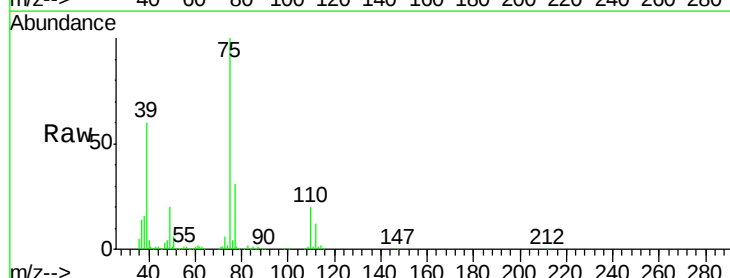
Manual Integrations
APPROVED

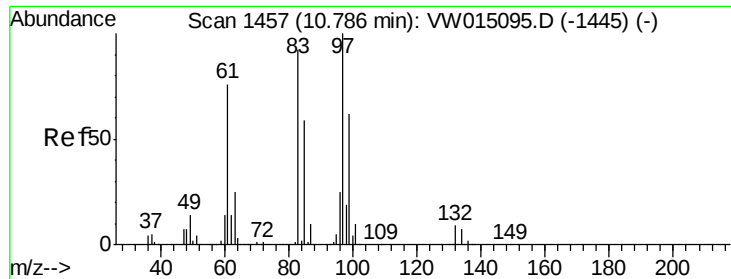
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 20.347 ug/l
RT: 10.07 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.3	36.5
39	59.6	47.0	70.6





#55

1,1,2-Trichloroethane

Concen: 20.349 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 84096

Ion Ratio Lower Upper

97 100

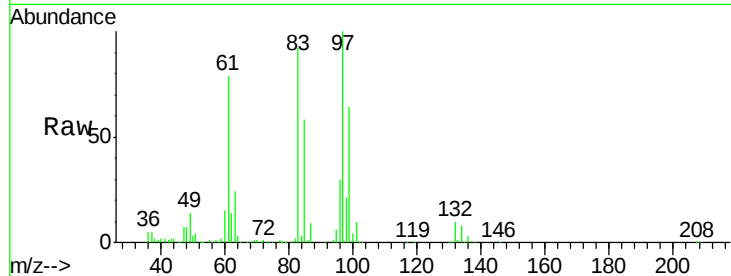
83 92.4 74.0 111.0

85 58.3 46.9 70.3

99 63.6 49.8 74.8

Manual Integrations
APPROVED

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3/11/2020 3:23:56 PM

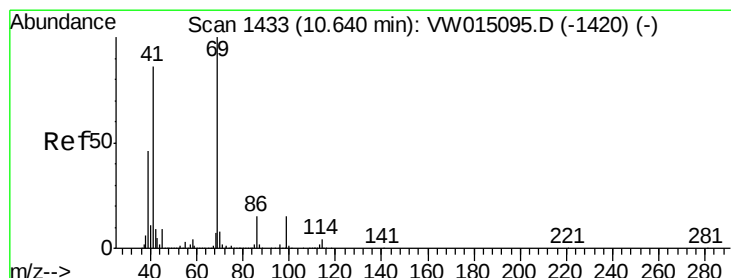
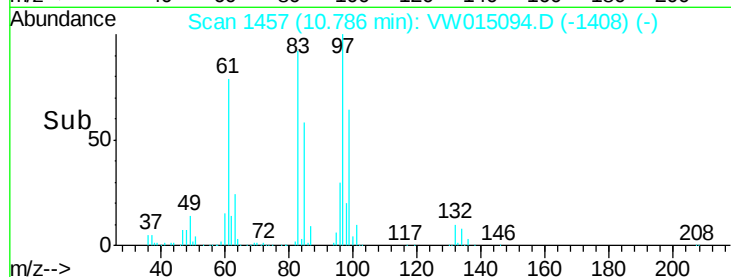
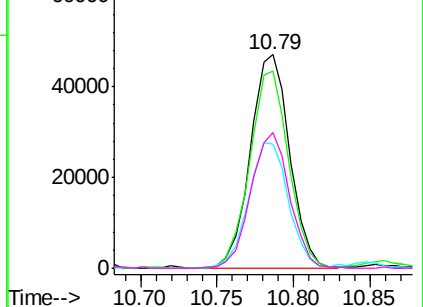


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 19.212 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

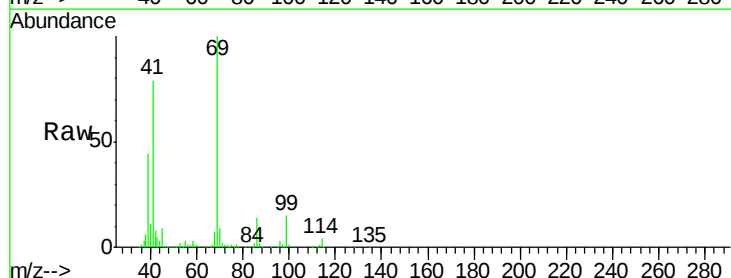
Tgt Ion: 69 Resp: 102450

Ion Ratio Lower Upper

69 100

41 82.5 65.8 98.6

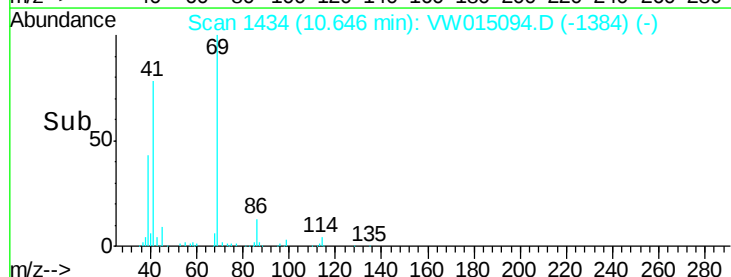
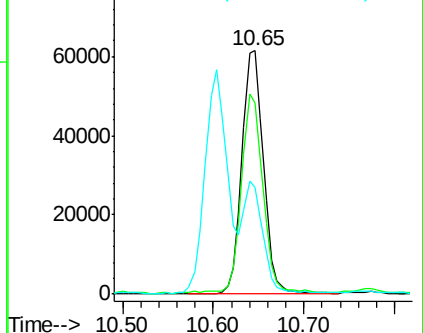
39 39.9 31.2 46.8

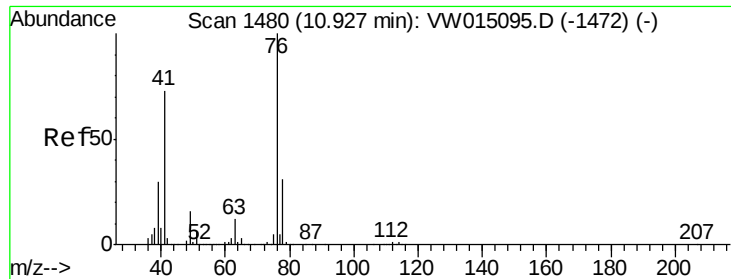


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 20.357 ug/l

RT: 10.93 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 160171

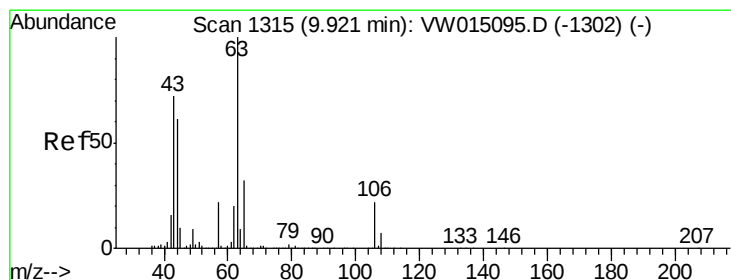
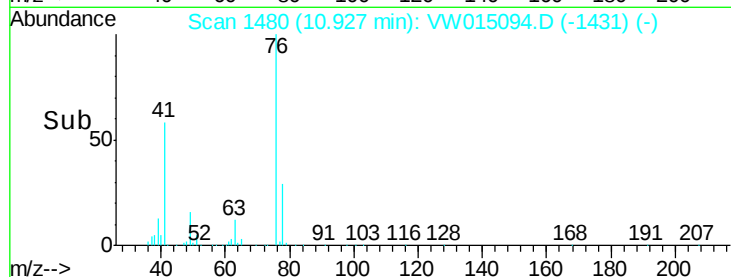
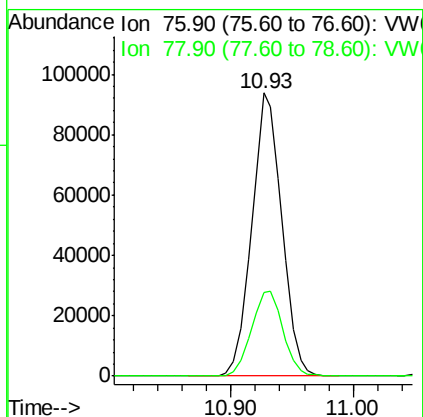
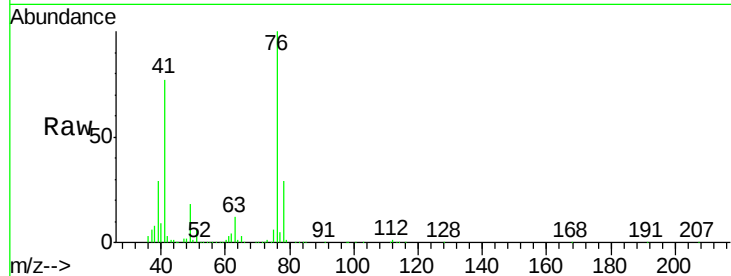
Ion Ratio Lower Upper

76 100

78 31.6 25.3 37.9

Manual Integrations
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3/11/2020 3:23:56 PM



#58

2-Chloroethyl Vinyl ether

Concen: 99.818 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VW015094.D

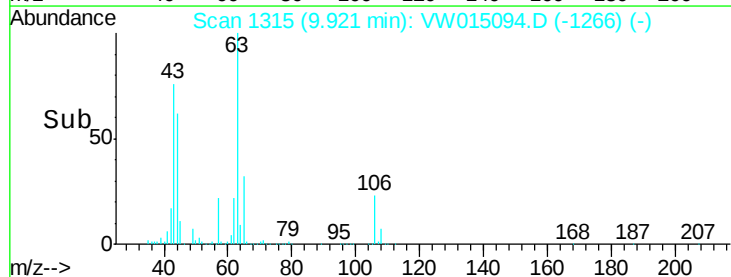
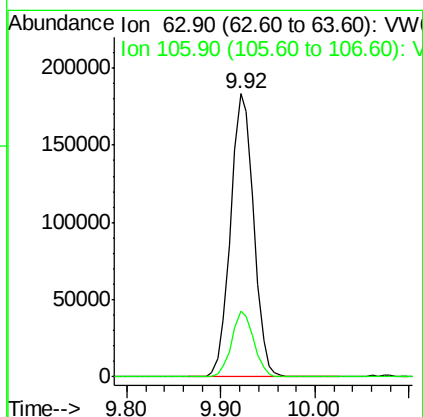
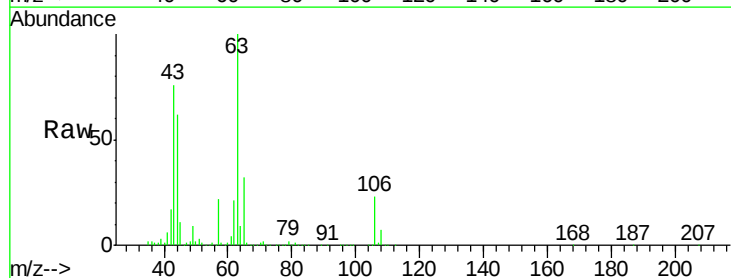
Acq: 09 Mar 2020 11:28

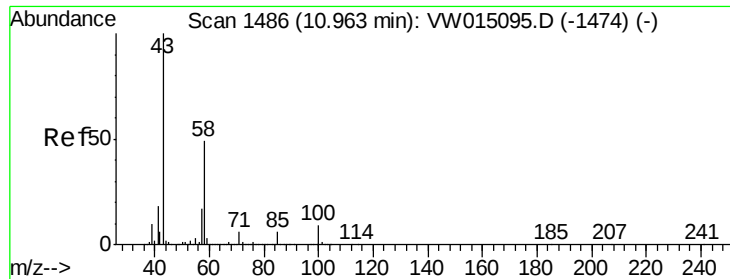
Tgt Ion: 63 Resp: 312314

Ion Ratio Lower Upper

63 100

106 22.4 18.0 27.0





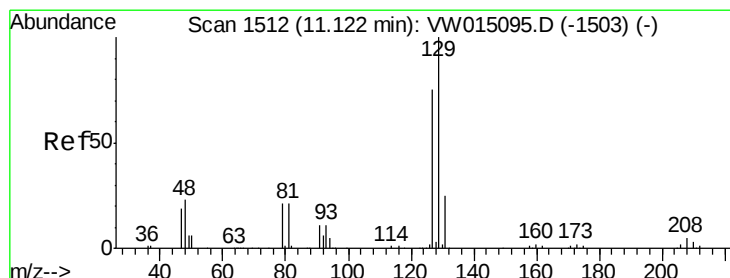
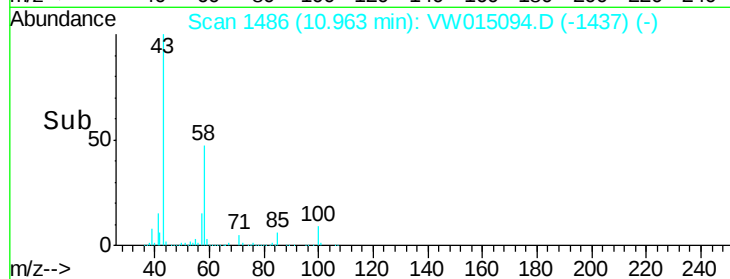
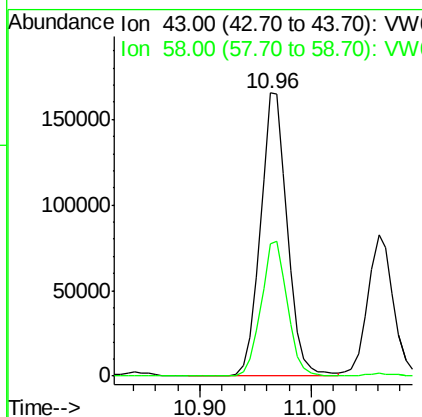
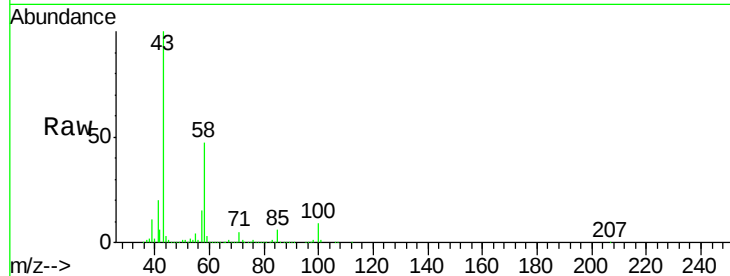
#59
2-Hexanone
Concen: 97.401 ug/l
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 278279
Ion Ratio Lower Upper
43 100
58 46.9 24.6 73.8

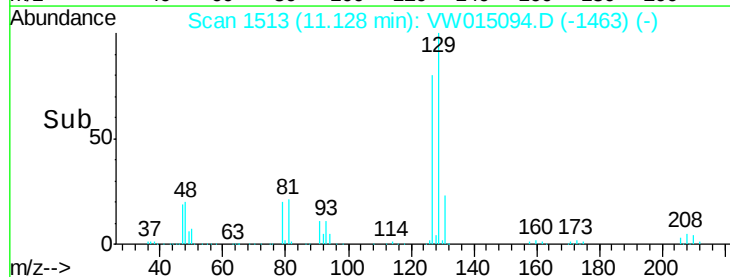
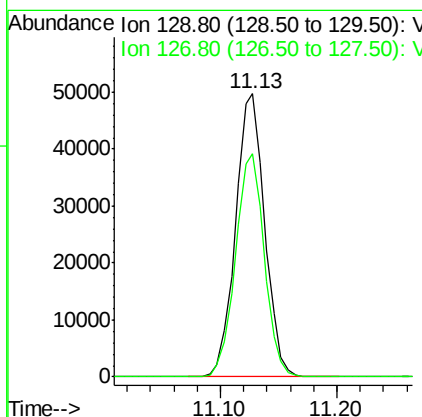
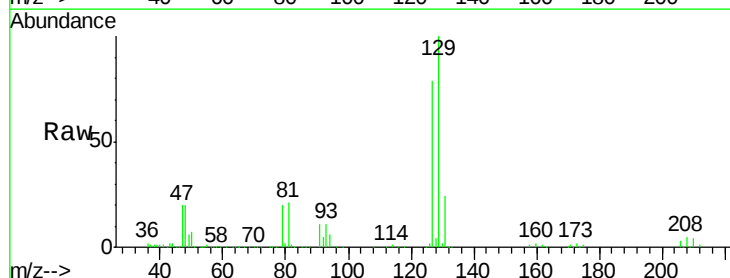
Manual Integrations
APPROVED

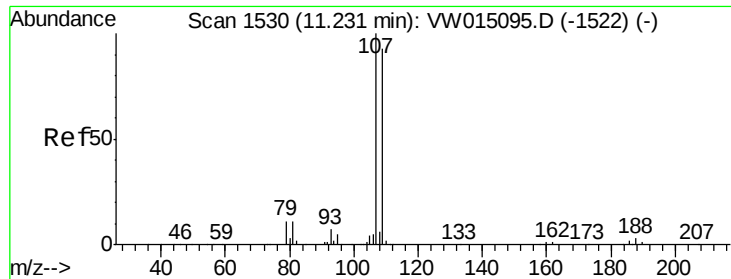
MMDadoda
3/11/2020 3:23:56 PM



#60
Dibromochloromethane
Concen: 20.259 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 129 Resp: 86472
Ion Ratio Lower Upper
129 100
127 78.1 38.7 116.1





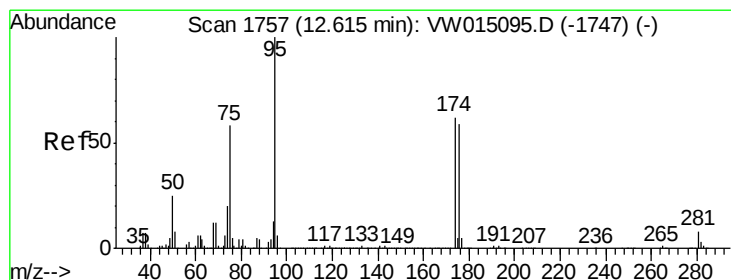
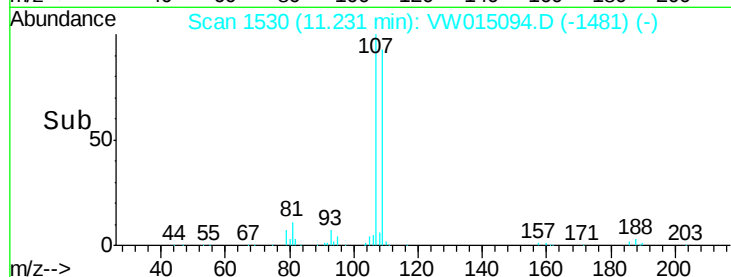
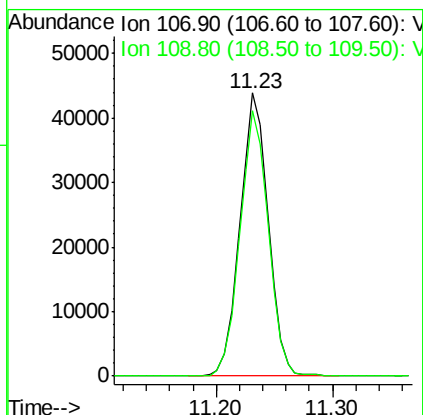
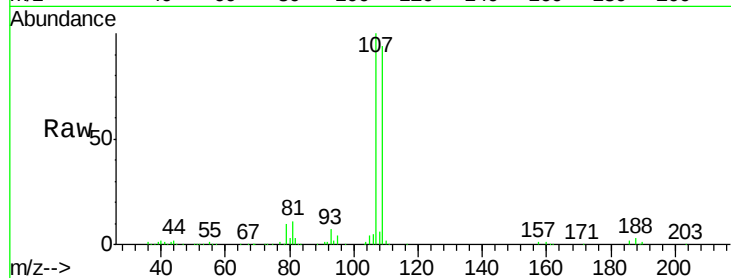
#61
 1,2-Dibromoethane
 Concen: 20.272 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.3	112.9

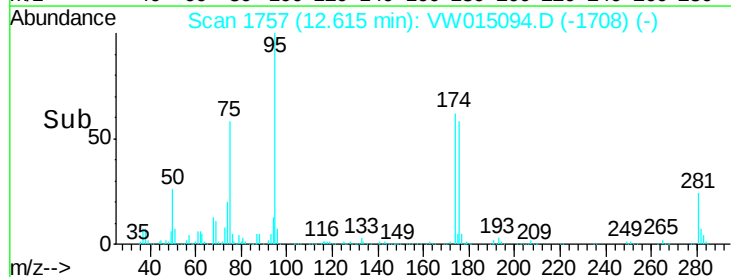
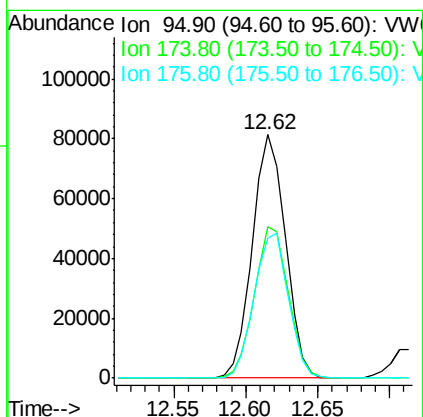
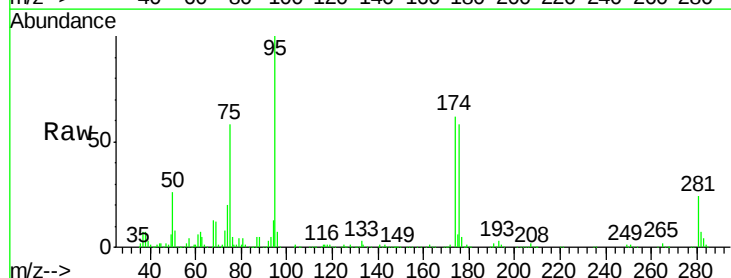
Manual Integrations
 APPROVED

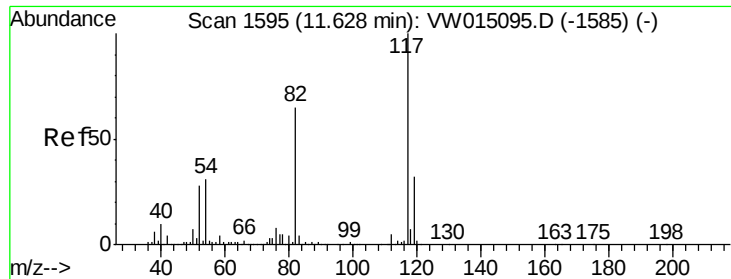
MMDadoda
 3/11/2020 3:23:56 PM



#62
 4-Bromofluorobenzene
 Concen: 19.449 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.9	0.0	126.8
176	61.6	0.0	121.6





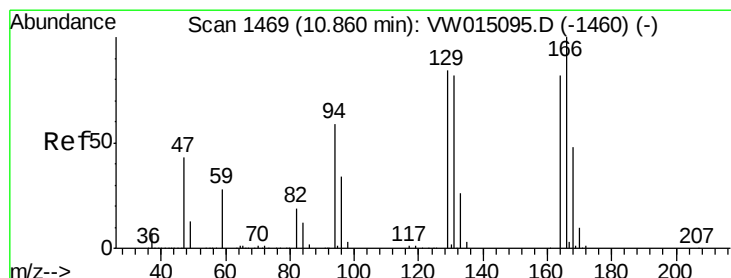
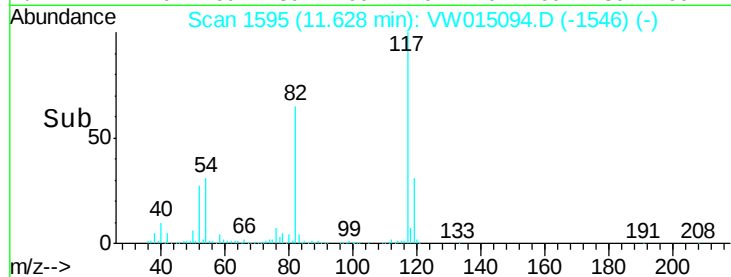
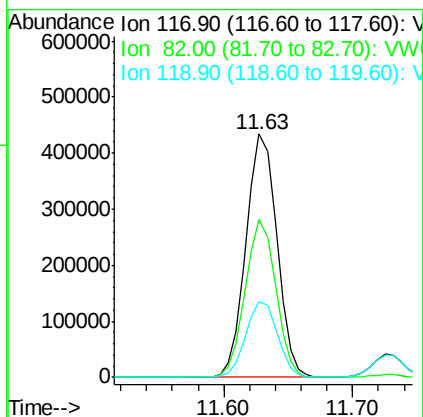
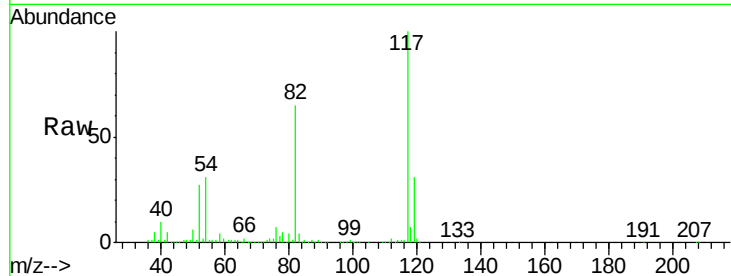
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	721450		
82	64.7	52.2	78.2	
119	31.4	25.4	38.0	

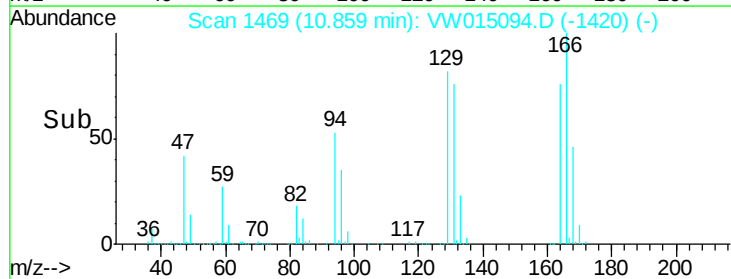
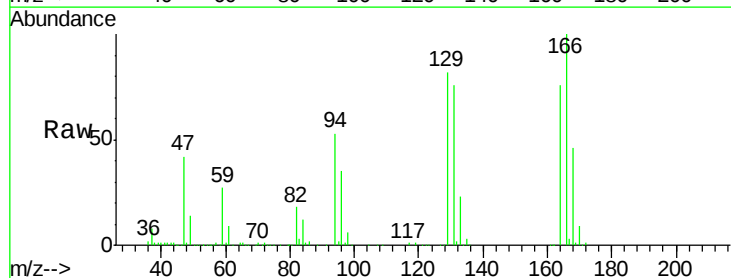
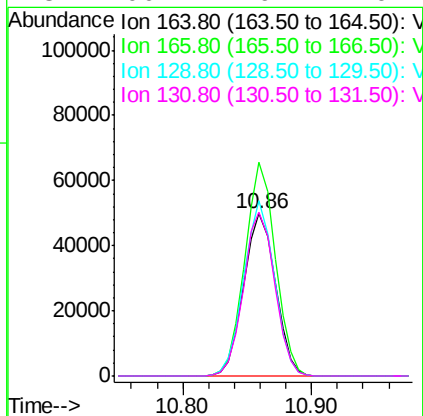
Manual Integrations
APPROVED

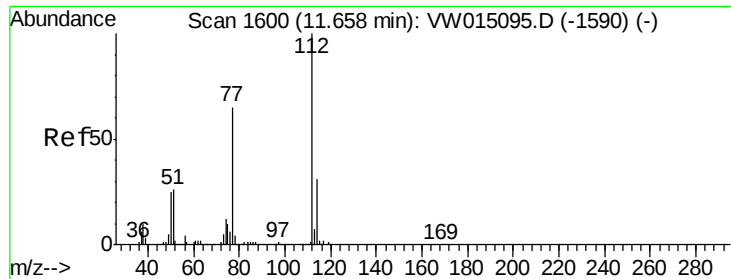
MMDadoda
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#64
Tetrachloroethene
Concen: 20.430 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	85059		
166	131.6	97.0	145.6	
129	107.9	81.2	121.8	
131	100.4	79.4	119.2	





#65

Chlorobenzene

Concen: 20.629 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 298724

Ion Ratio Lower Upper

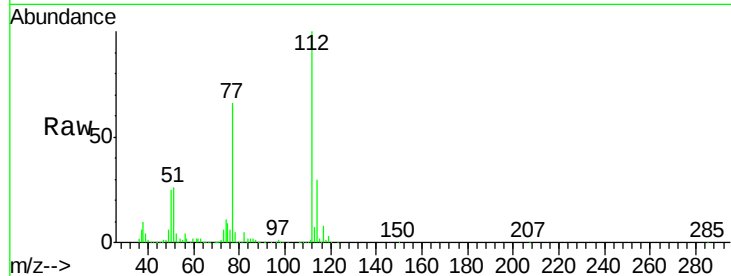
112 100

114 30.4 25.0 37.6

Manual Integrations
APPROVED

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

200000

150000

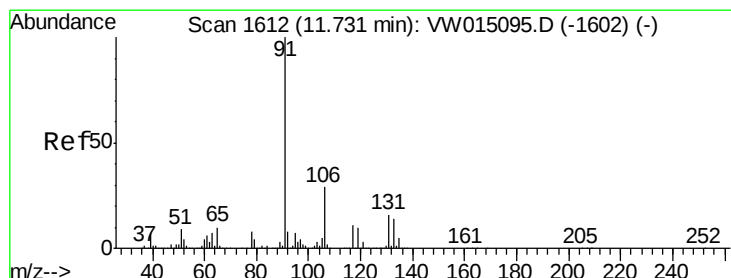
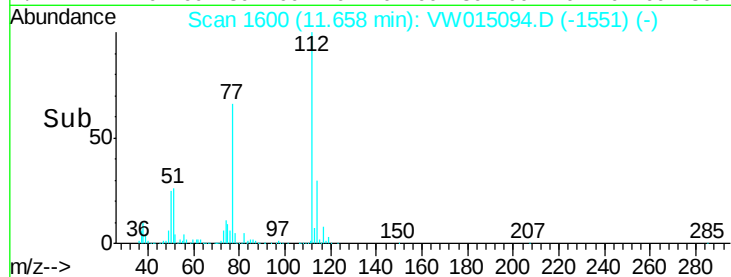
100000

50000

0

11.60 11.70

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.982 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

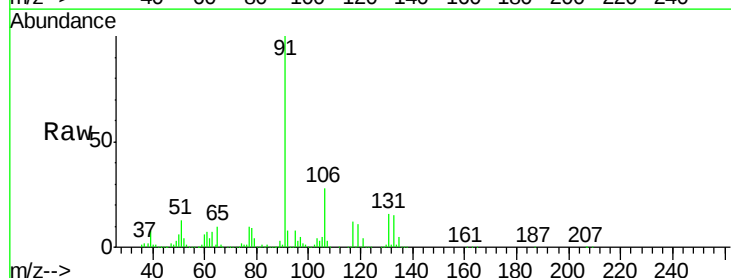
Tgt Ion:131 Resp: 96354

Ion Ratio Lower Upper

131 100

133 96.9 47.3 141.8

119 70.9 34.0 101.8



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

150000

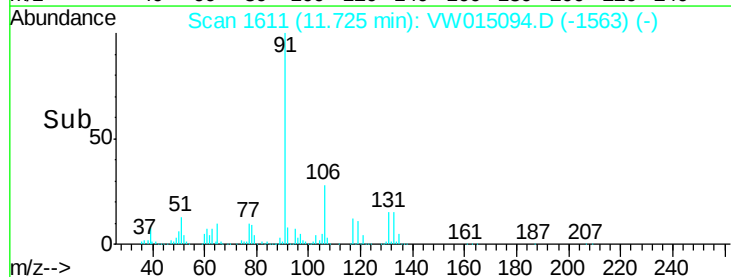
100000

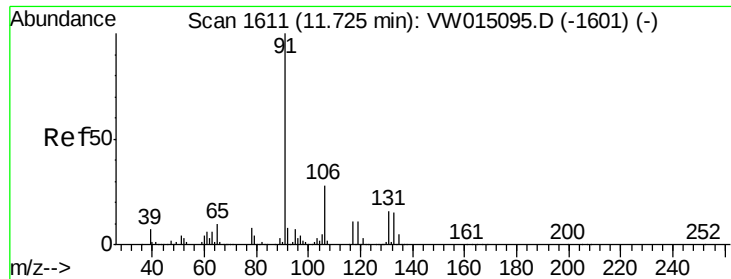
50000

0

11.65 11.75

Time-->





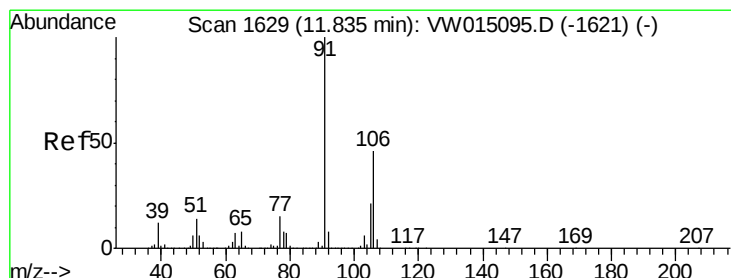
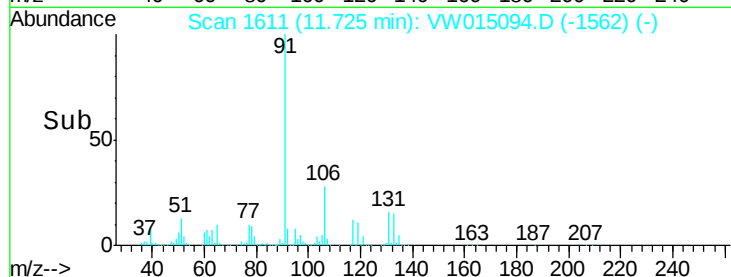
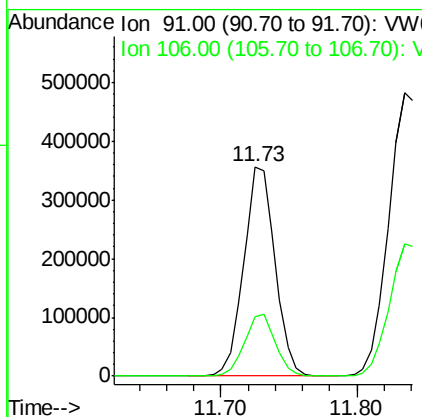
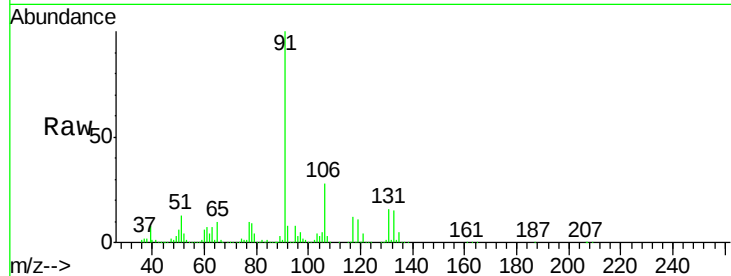
#67
Ethyl Benzene
Concen: 20.349 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 573398
Ion Ratio Lower Upper
91 100
106 28.2 22.8 34.2

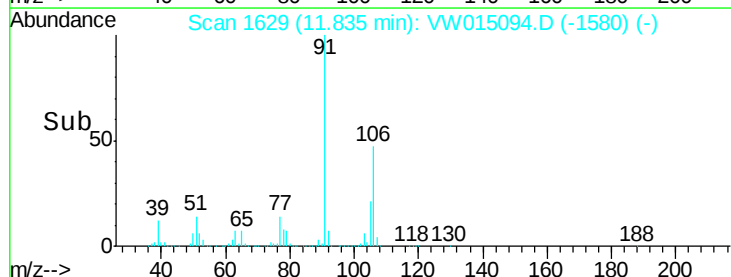
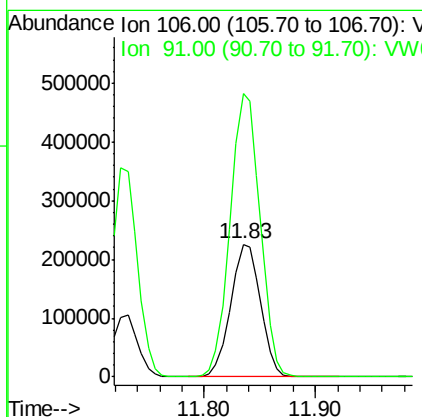
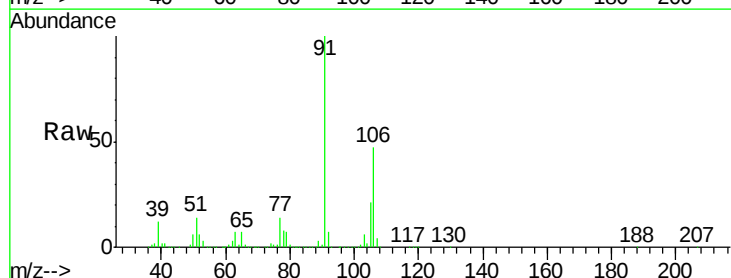
Manual Integrations
APPROVED

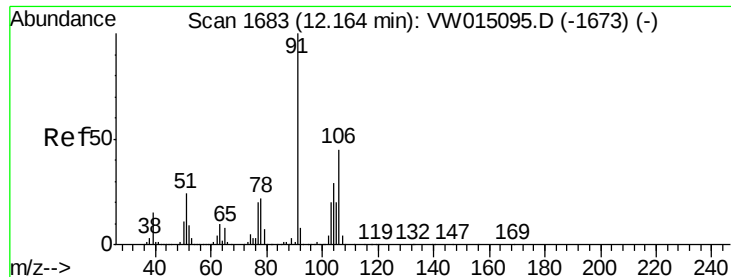
MMDadoda
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#68
m/p-Xylenes
Concen: 41.956 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 106 Resp: 417949
Ion Ratio Lower Upper
106 100
91 214.4 172.3 258.5





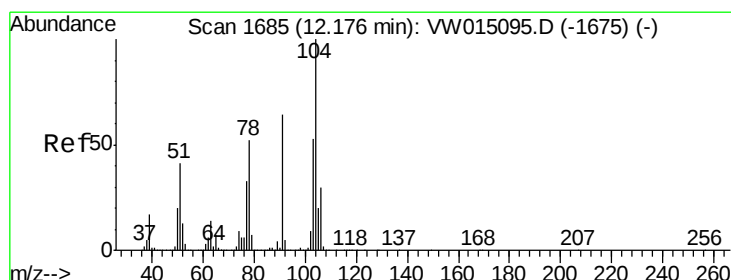
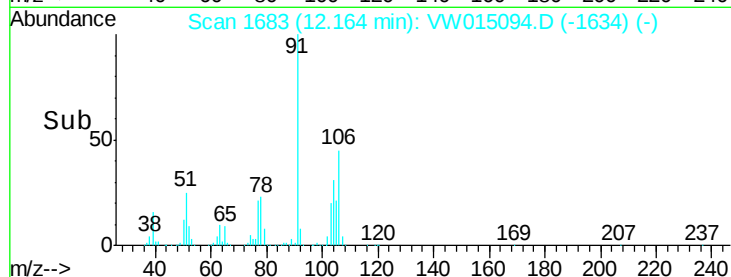
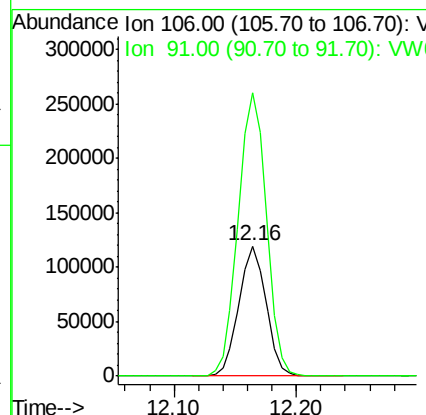
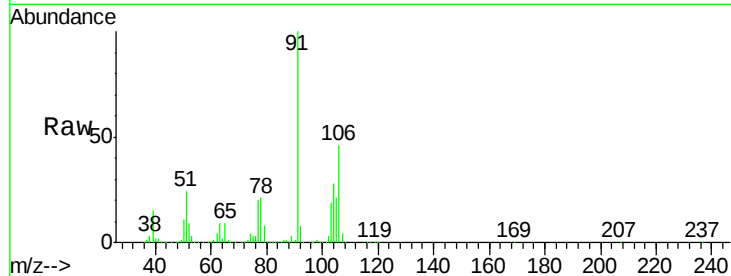
#69
o-Xylene
Concen: 20.492 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

Tot Ion:106 Resp: 183881
Ion Ratio Lower Upper
106 100
91 225.9 112.6 337.8

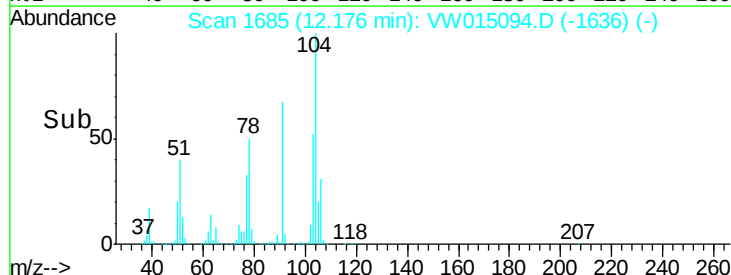
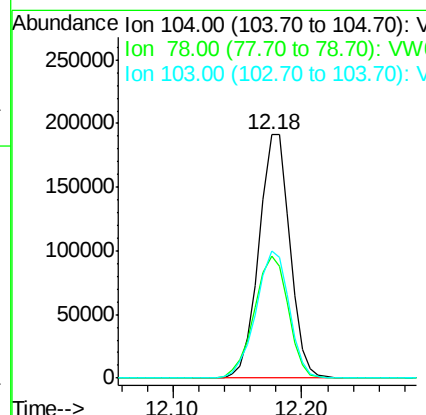
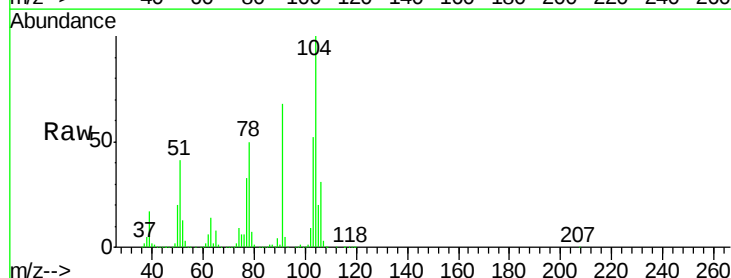
Manual Integrations
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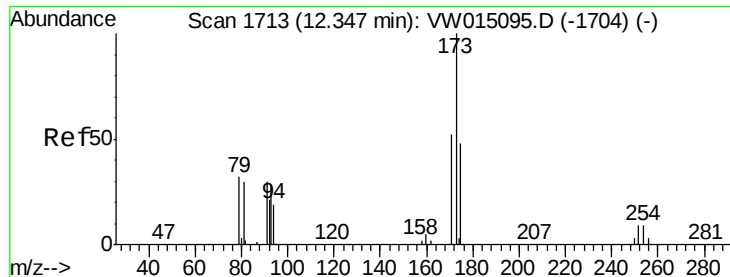
MMDadoda
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#70
Styrene
Concen: 20.636 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion:104 Resp: 317294
Ion Ratio Lower Upper
104 100
78 55.2 44.7 67.1
103 56.2 44.7 67.1





#71

Bromoform

Concen: 19.296 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

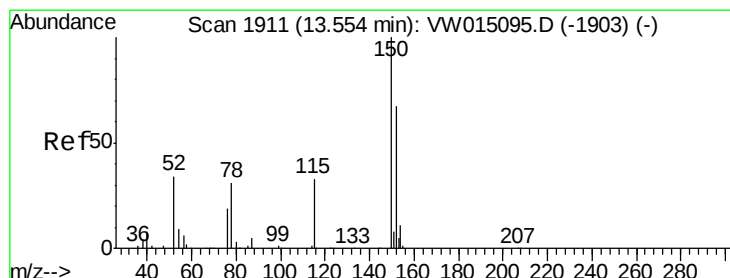
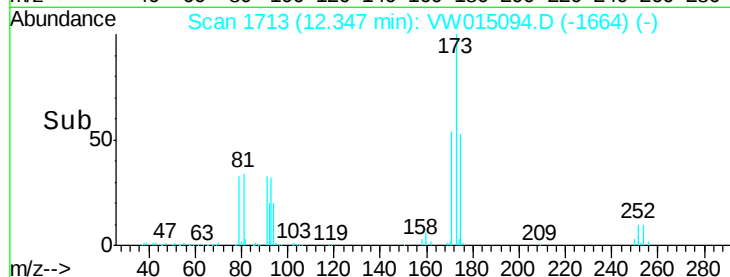
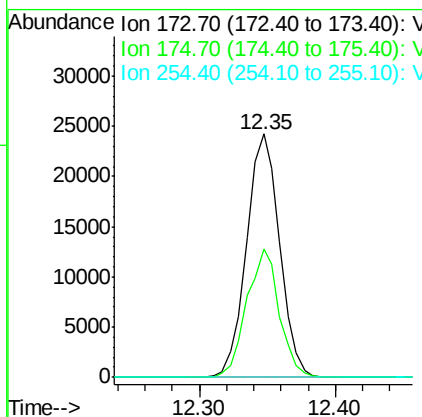
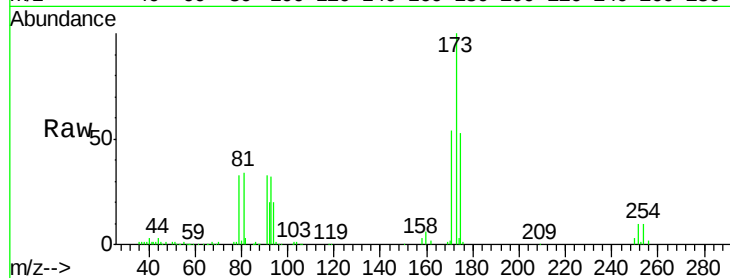
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.7	23.8	71.4
254	0.1	0.1	0.1

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

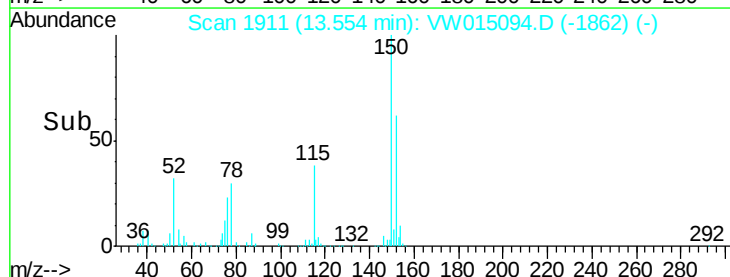
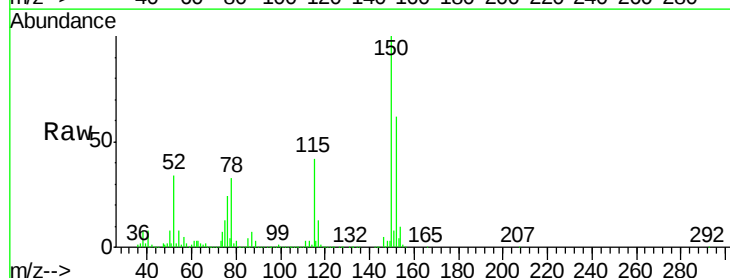
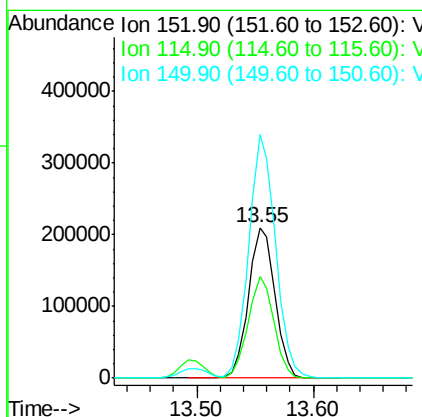
RT: 13.55 min Scan# 1911

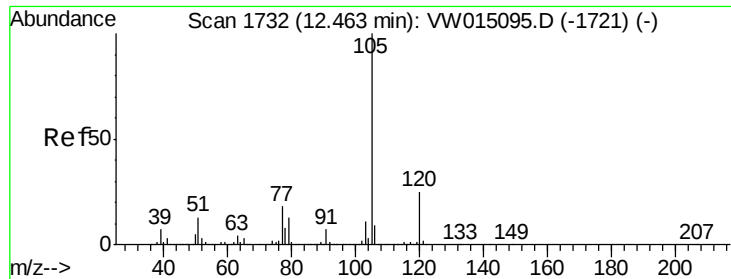
Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.5	33.3	99.9
150	163.5	0.0	351.2





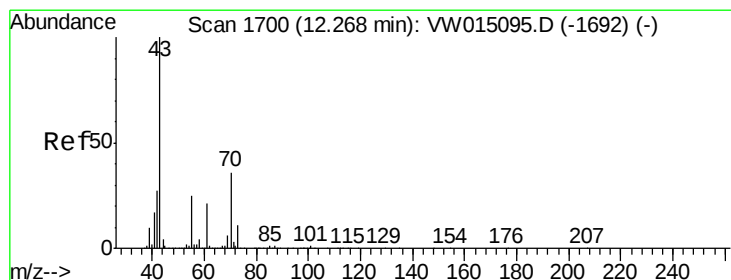
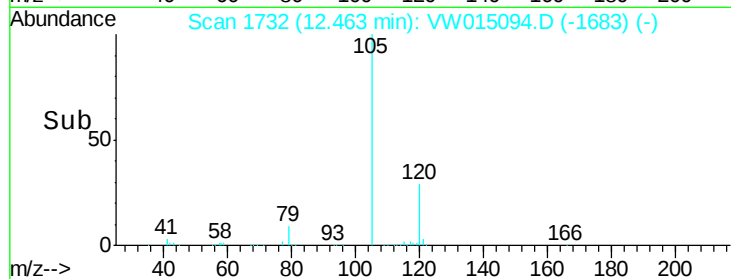
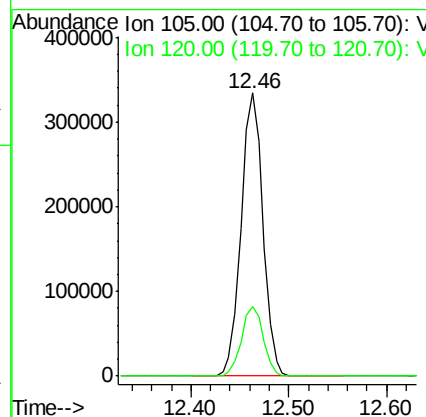
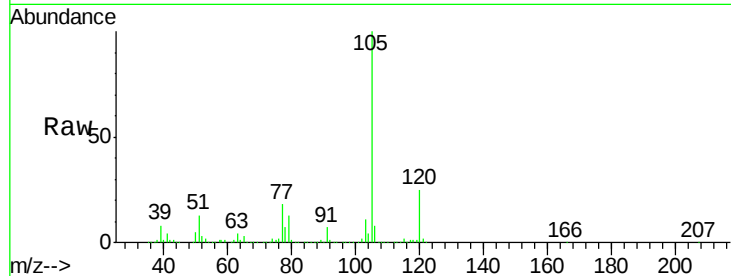
#73
Isopropylbenzene
Concen: 20.294 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.7	12.6	37.8

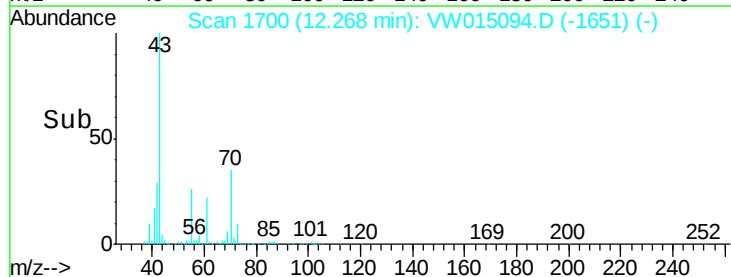
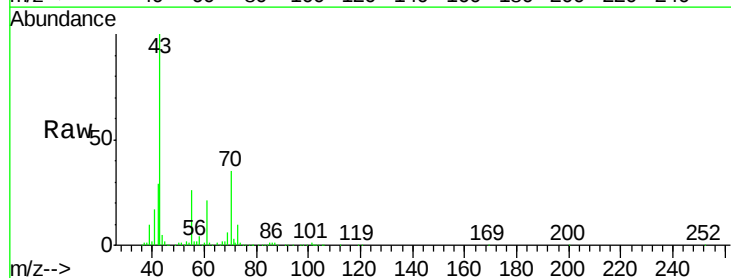
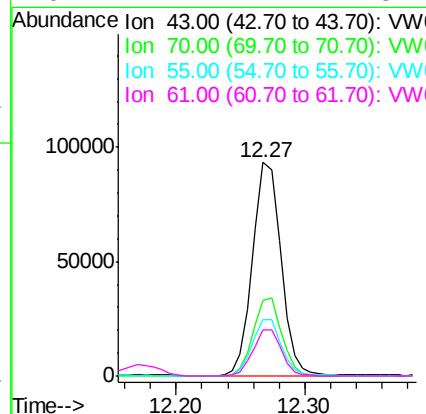
Manual Integrations
APPROVED

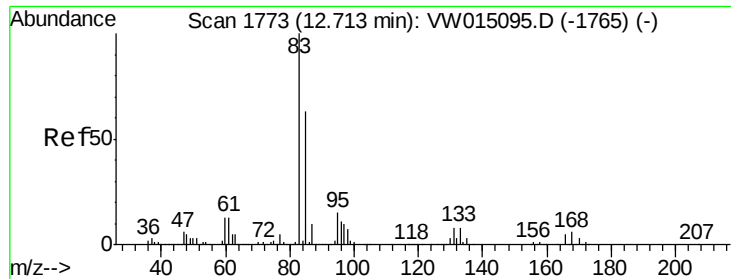
MMDadoda
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#74
N-ethyl acetate
Concen: 18.860 ug/l
RT: 12.27 min Scan# 1700
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
43	100		
70	36.9	29.4	44.2
55	27.6	20.3	30.5
61	21.7	17.1	25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.684 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

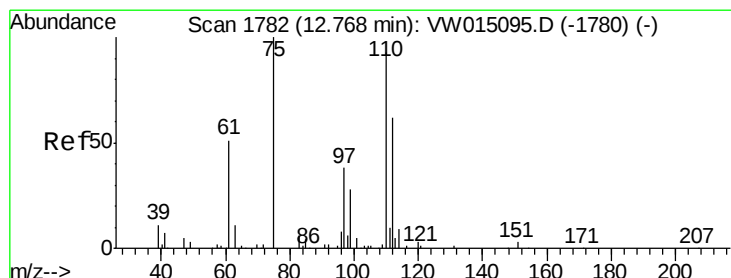
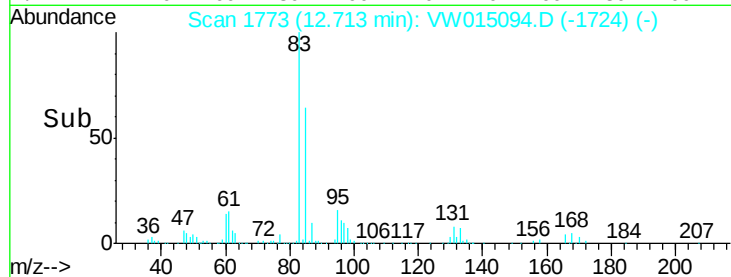
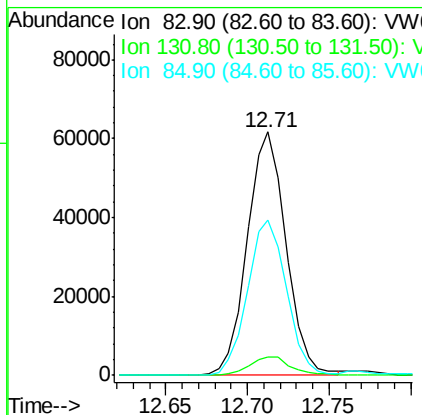
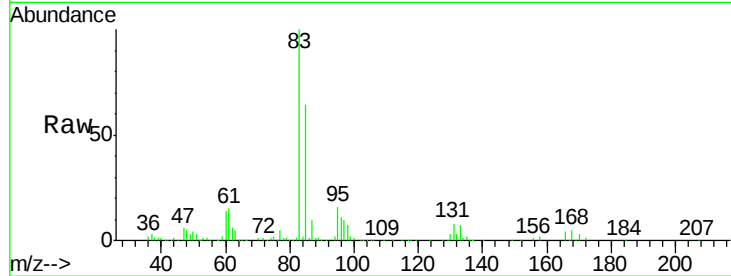
ClientSampled :

VSTDIC020

Tot Ion:	83	Resp:	101817
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.3	13.1
85	64.3	31.5	94.5

Manual Integrations
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3/11/2020 3:23:56 PM



#76

1,2,3-Trichloropropane

Concen: 13.133 ug/l m

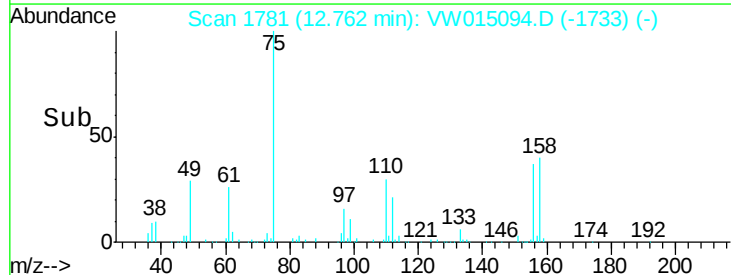
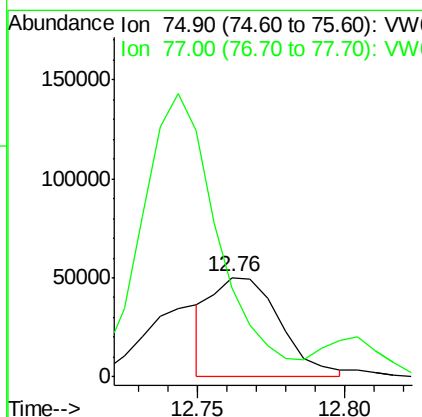
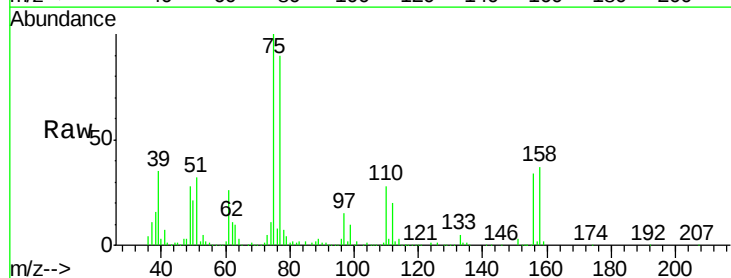
RT: 12.76 min Scan# 1781

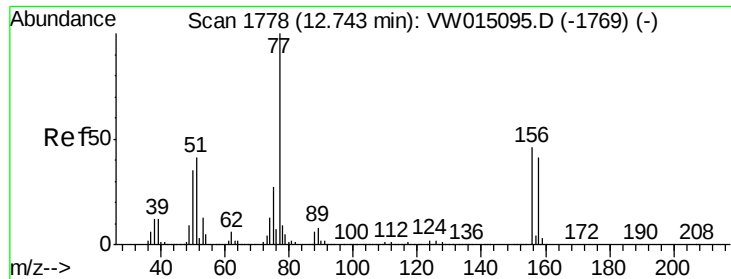
Delta R.T. -0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion:	75	Resp:	81166
Ion Ratio	Lower	Upper	
75	100		
77	319.5	0.0	0.0#





#77

Bromobenzene

Concen: 20.126 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

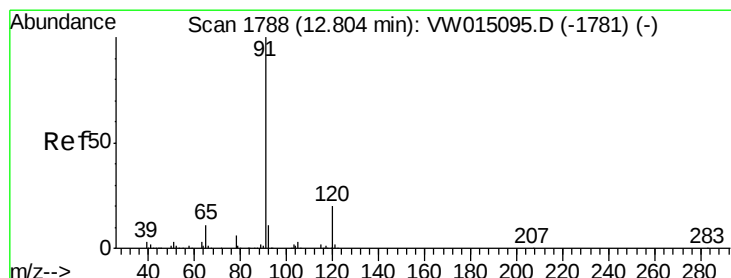
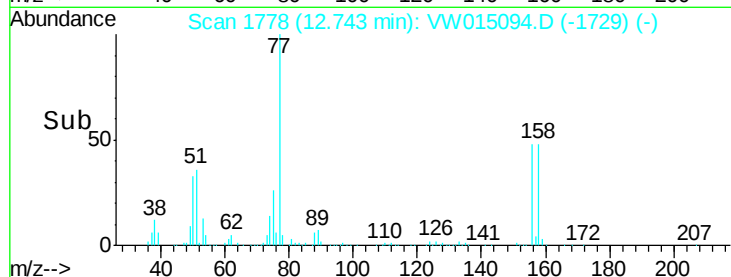
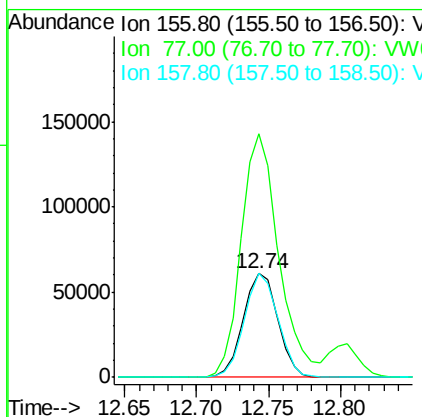
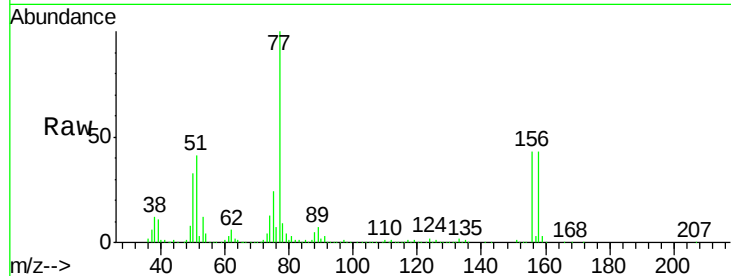
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	255.9	126.6	379.8	
158	97.4	47.4	142.2	

Manual Integrations
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#78

n-propylbenzene

Concen: 20.689 ug/l

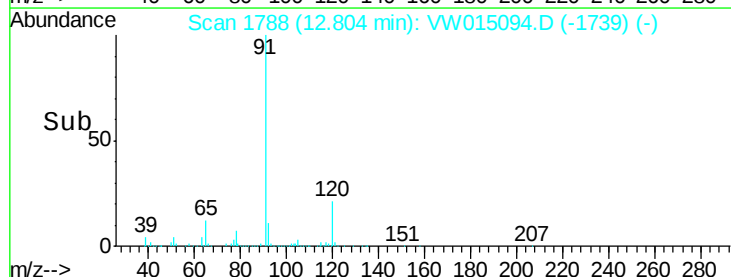
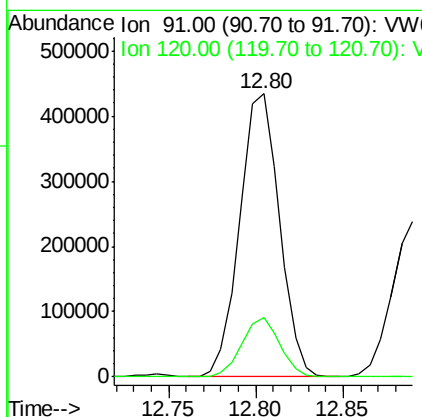
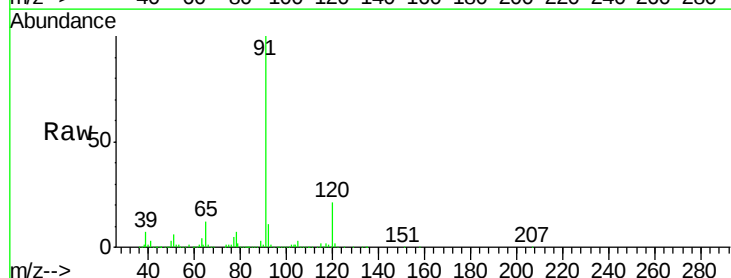
RT: 12.80 min Scan# 1788

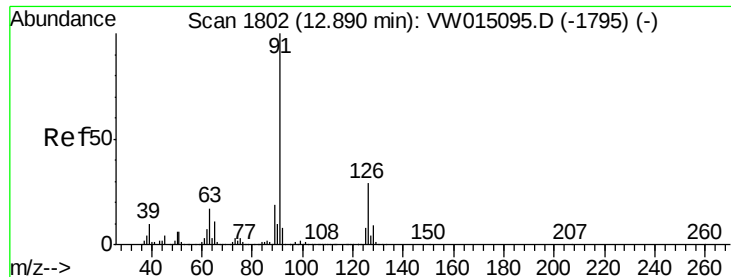
Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.2	10.2	30.4	





#79

2-Chlorotoluene

Concen: 20.461 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 380844

Ion Ratio Lower Upper

91 100

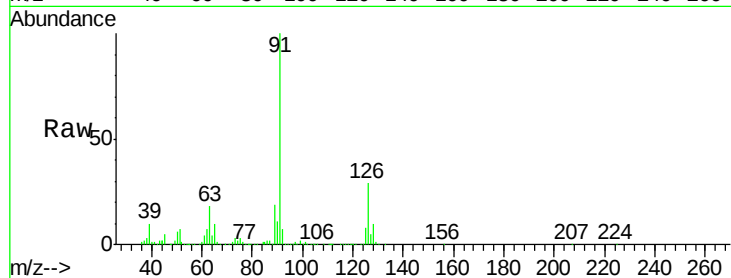
126 29.6 14.5 43.6

Manual Integrations

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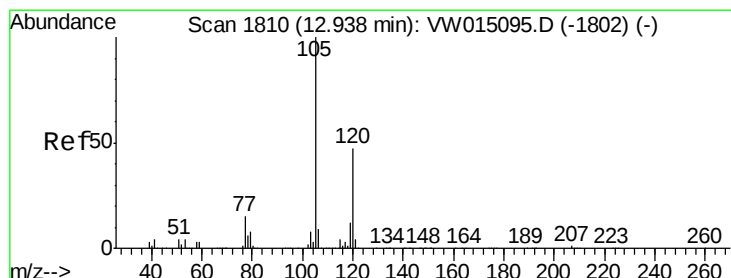
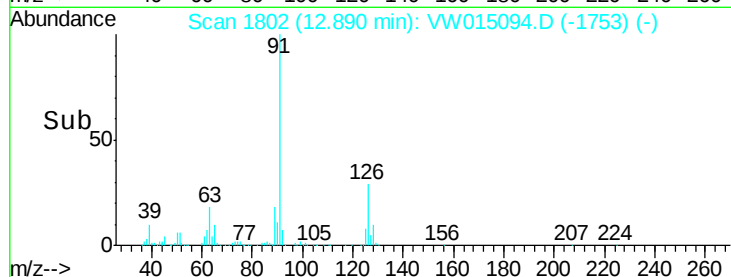
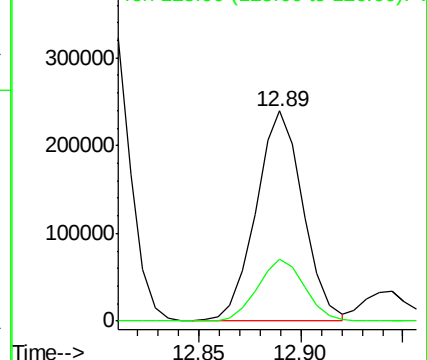
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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.717 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW015094.D

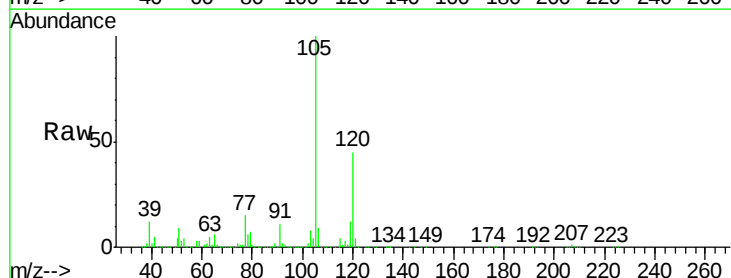
Acq: 09 Mar 2020 11:28

Tgt Ion: 105 Resp: 453747

Ion Ratio Lower Upper

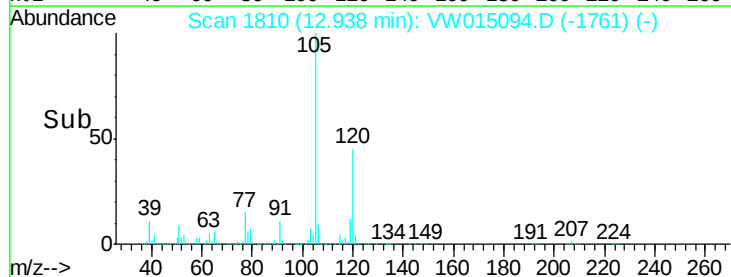
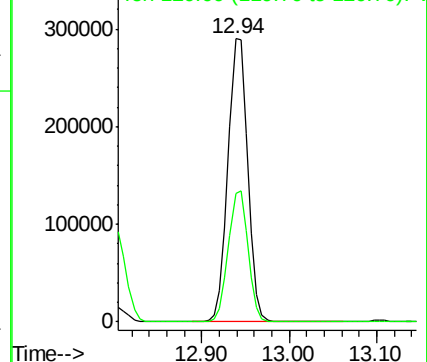
105 100

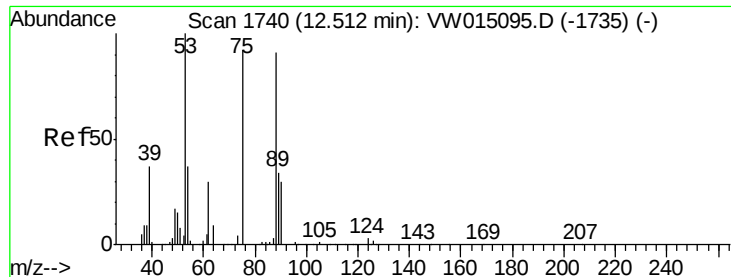
120 46.3 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





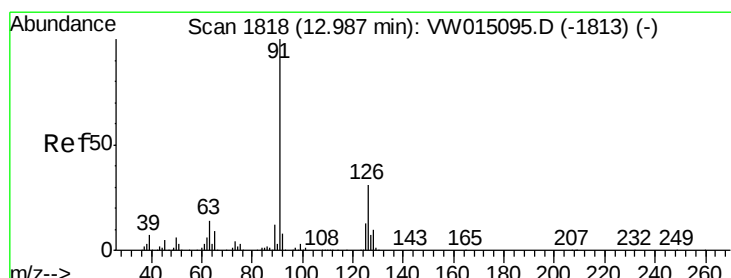
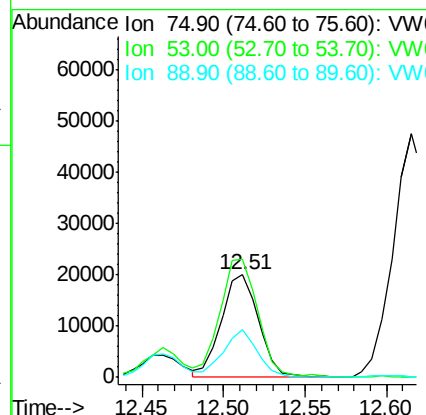
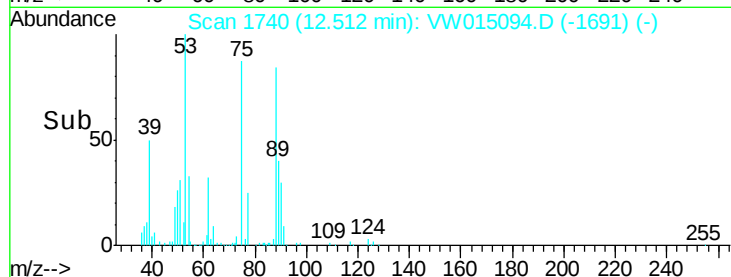
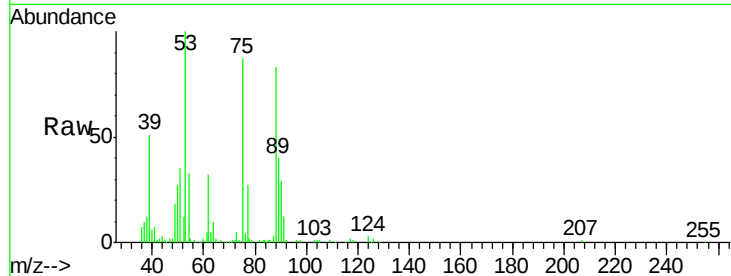
#81
trans-1,4-Dichloro-2-butene
Concen: 19.030 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	115.3	88.4	132.6
89	43.7	33.1	49.7

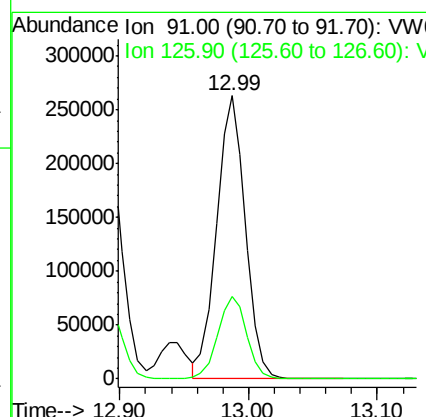
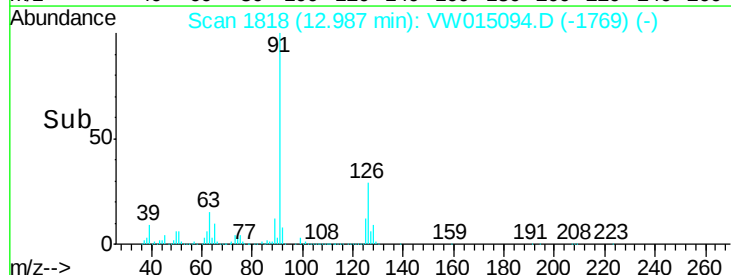
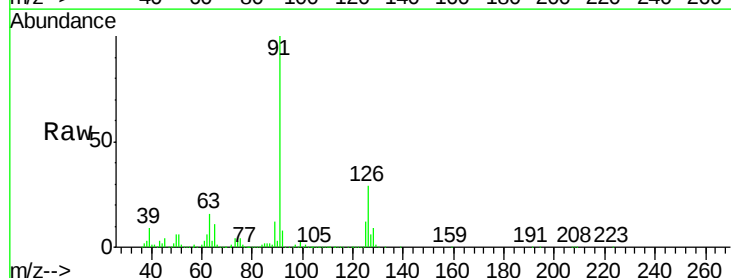
Manual Integrations
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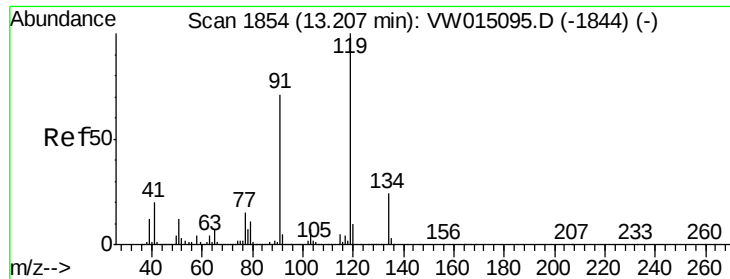
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#82
4-Chlorotoluene
Concen: 20.632 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.8	44.4





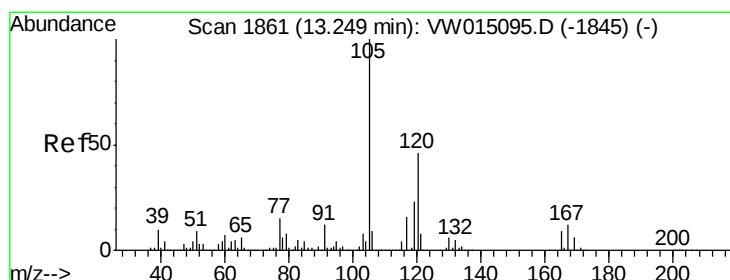
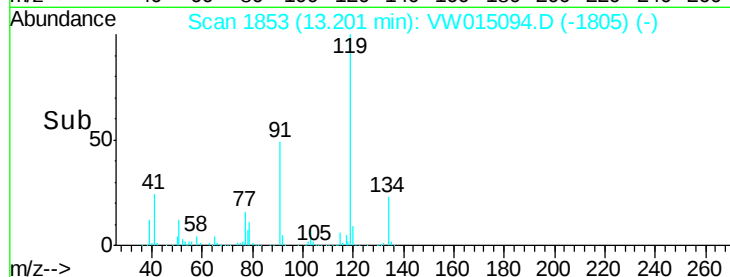
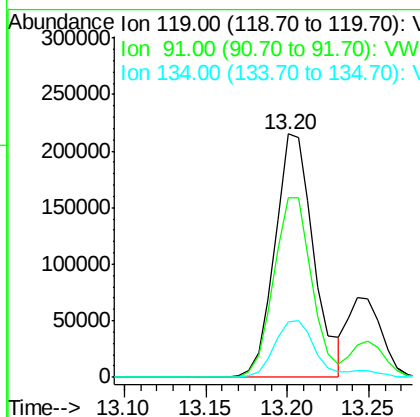
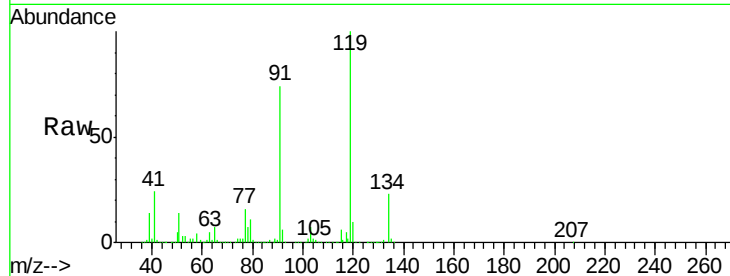
#83
 tert-Butylbenzene
 Concen: 20.050 ug/l
 RT: 13.20 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	72.7	35.7	107.1
134	24.2	12.7	38.1

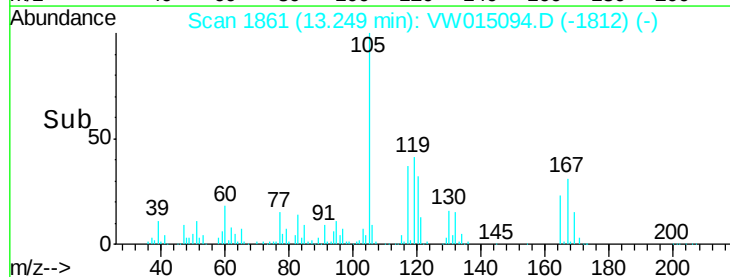
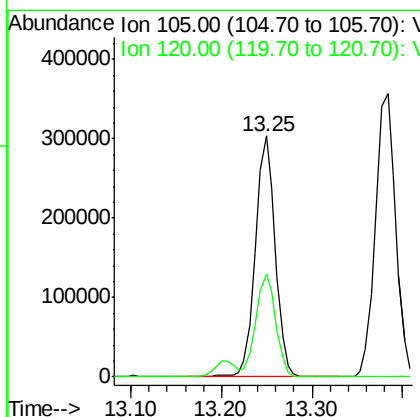
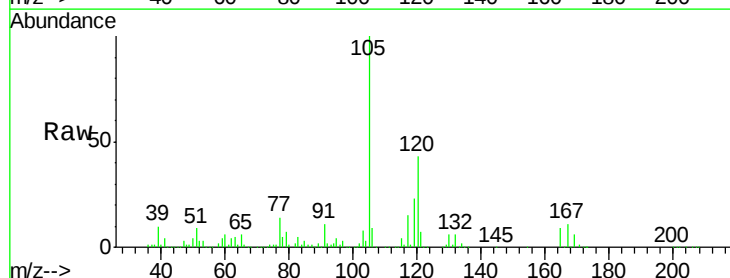
Manual Integrations
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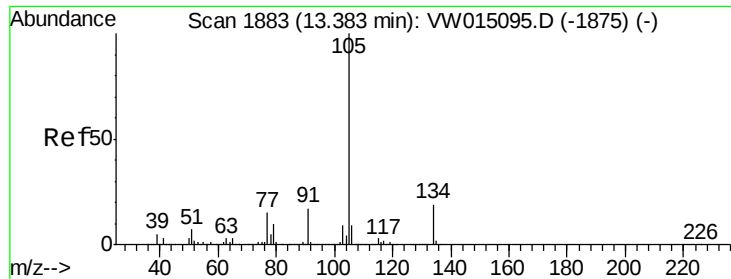
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.941 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.1	66.3





#85

sec-Butylbenzene

Concen: 20.540 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 551564

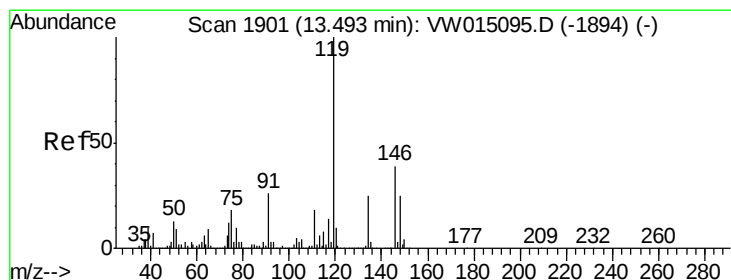
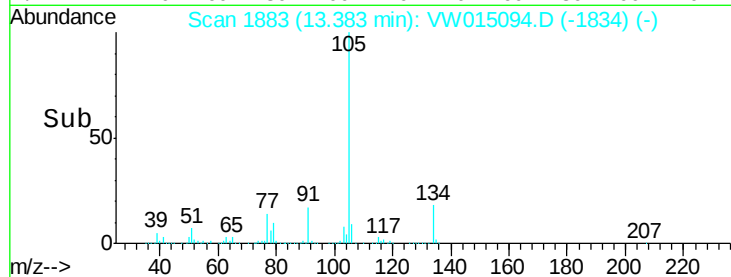
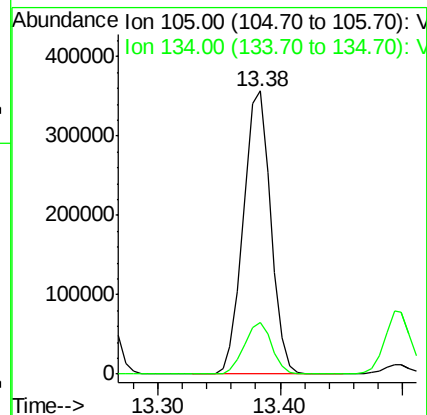
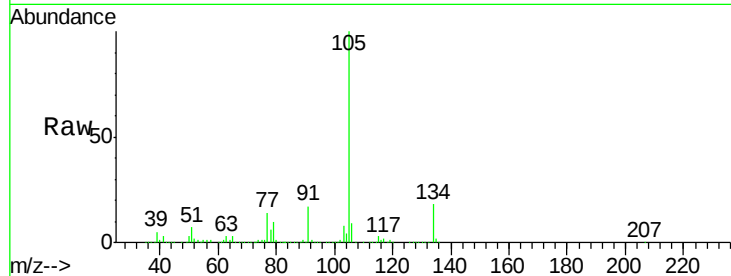
Ion Ratio Lower Upper

105 100

134 18.3 9.0 27.1

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 20.494 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

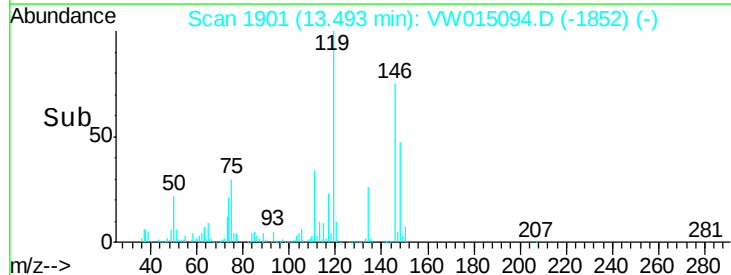
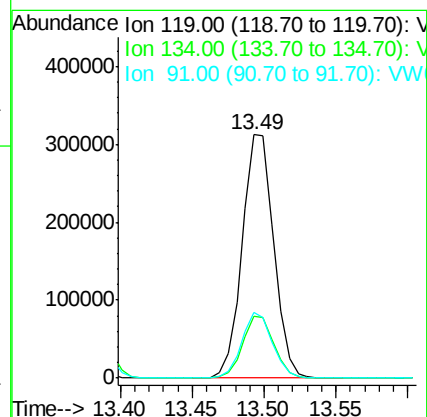
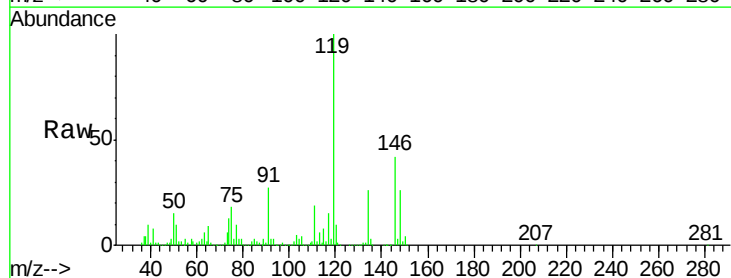
Tgt Ion:119 Resp: 473049

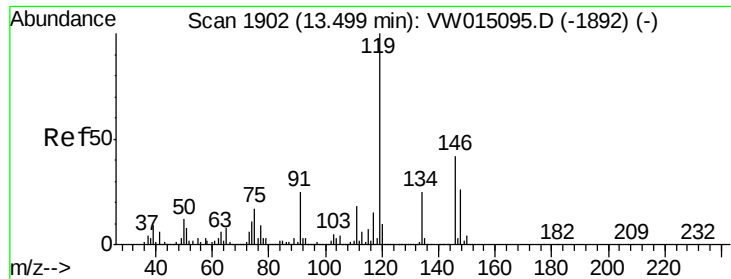
Ion Ratio Lower Upper

119 100

134 25.2 12.6 37.8

91 26.0 12.9 38.6





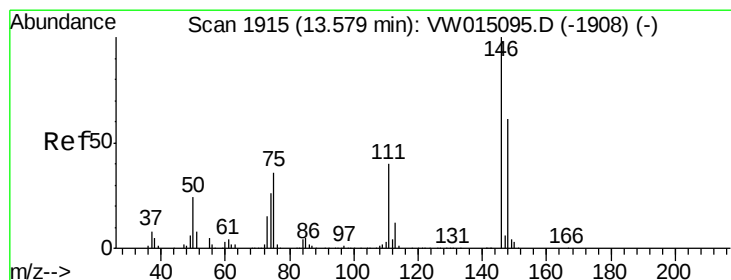
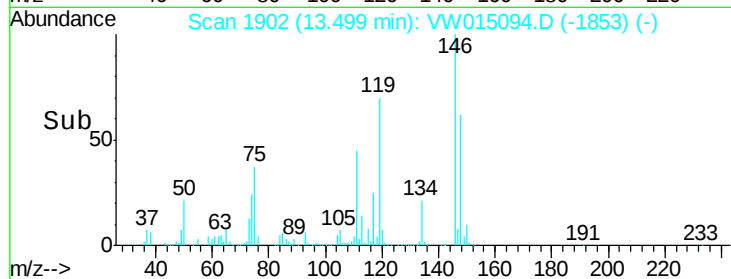
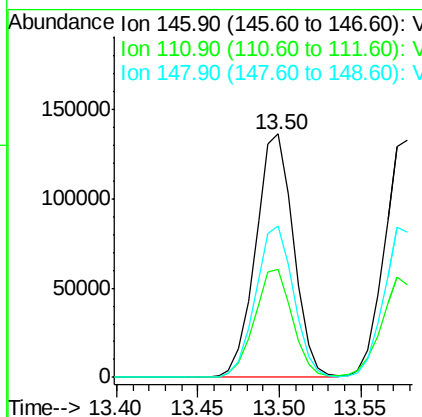
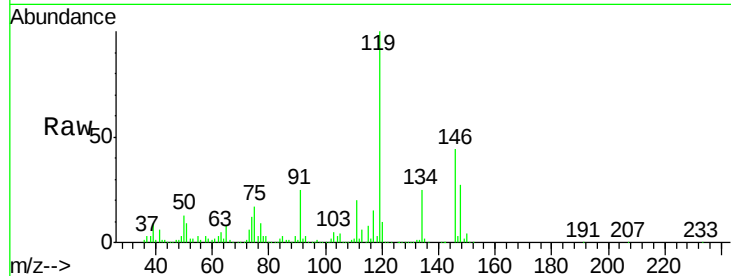
#87
 1,3-Dichlorobenzene
 Concen: 20.511 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.5	67.5
148	62.5	31.9	95.9

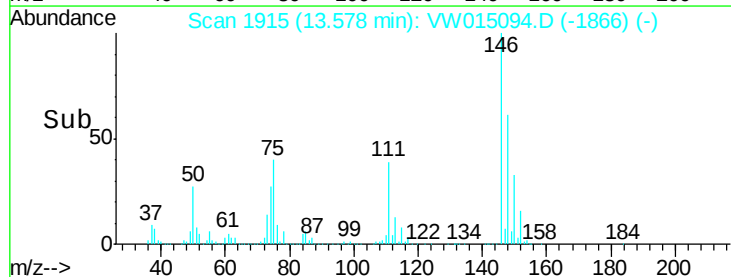
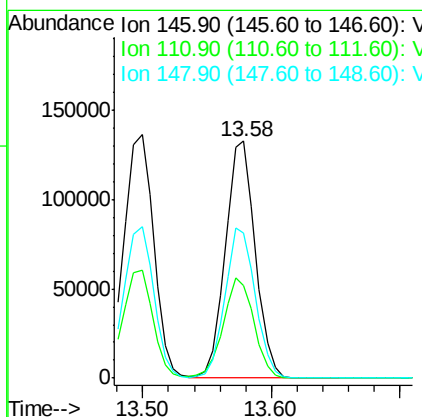
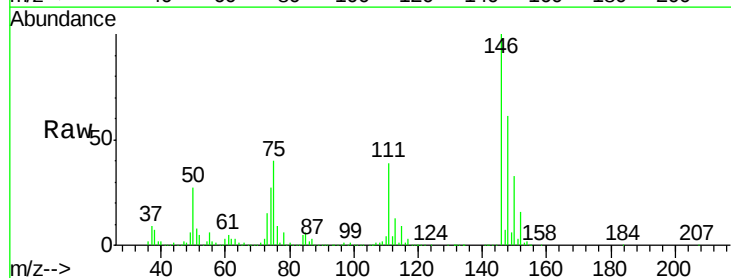
Manual Integrations
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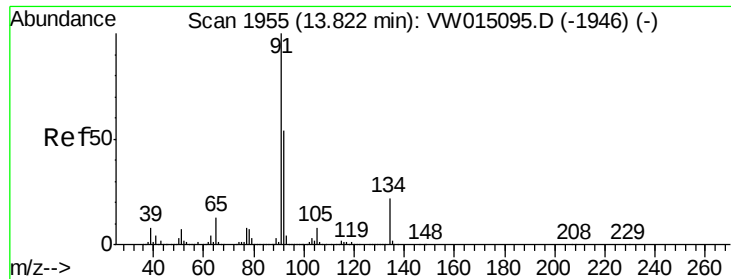
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#88
 1,4-Dichlorobenzene
 Concen: 20.535 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.9
148	64.4	31.6	94.8





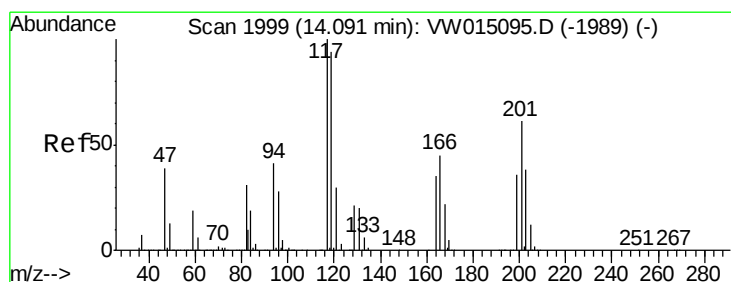
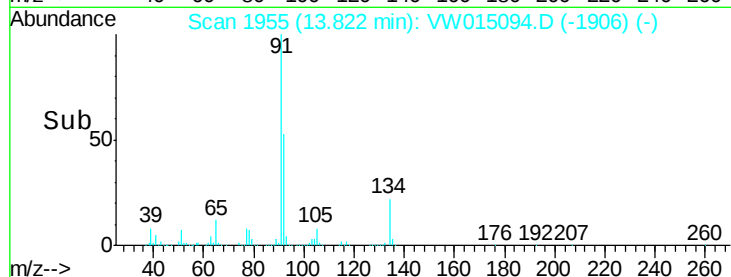
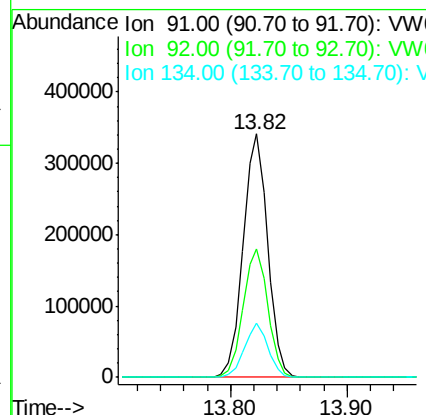
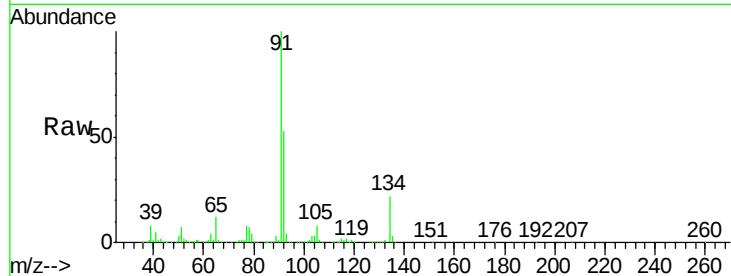
#89
n-Butylbenzene
Concen: 20.128 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.8	80.3
134	21.6	10.8	32.4

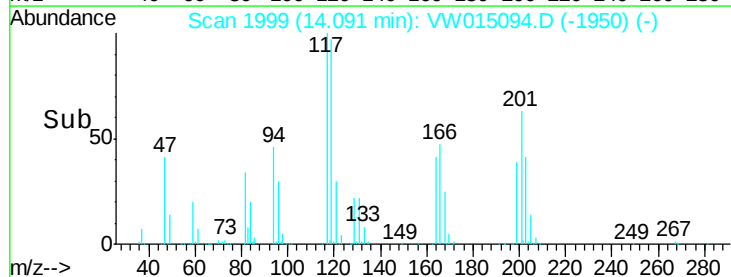
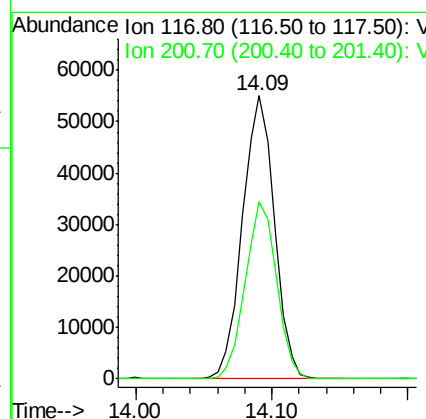
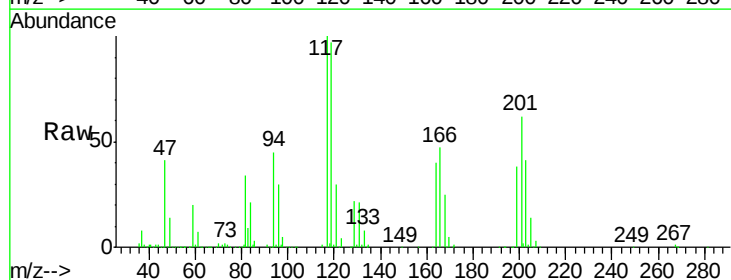
Manual Integrations
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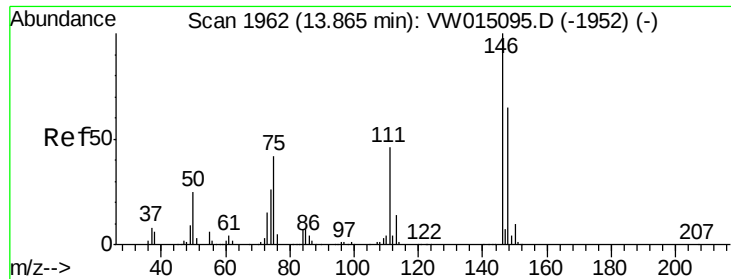
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#90
Hexachloroethane
Concen: 19.505 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	61.6	30.3	90.9





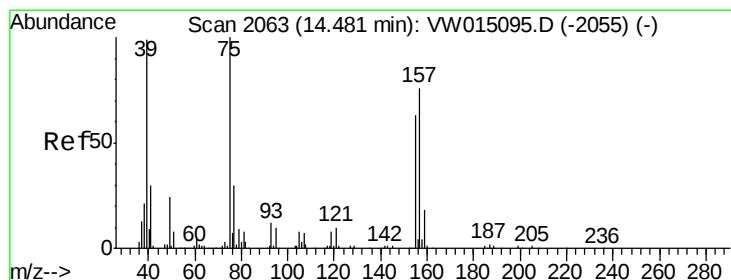
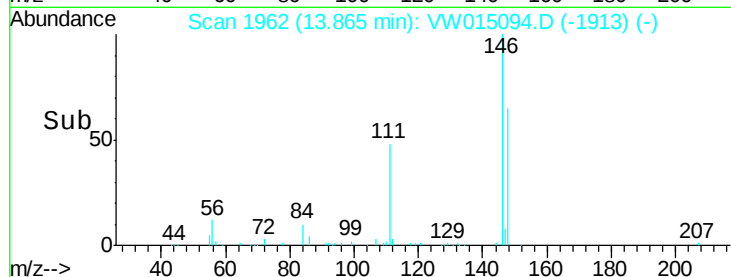
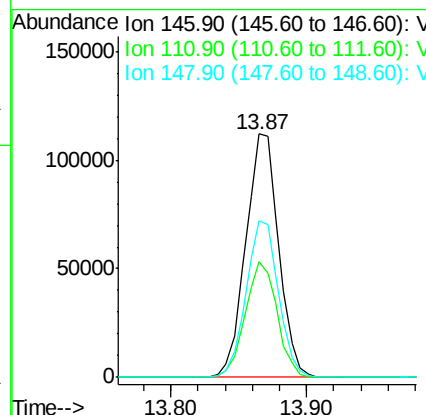
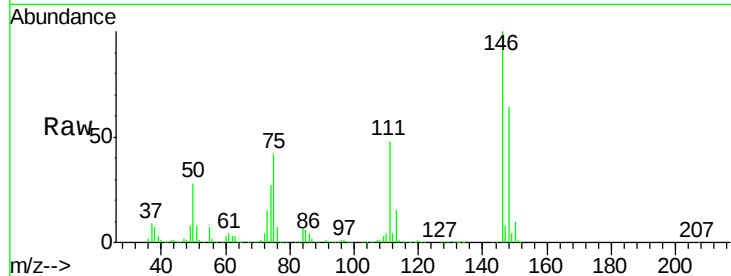
#91
 1,2-Dichlorobenzene
 Concen: 20.283 ug/l
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	189508		
111	45.9	23.1	69.2	
148	63.3	32.3	96.9	

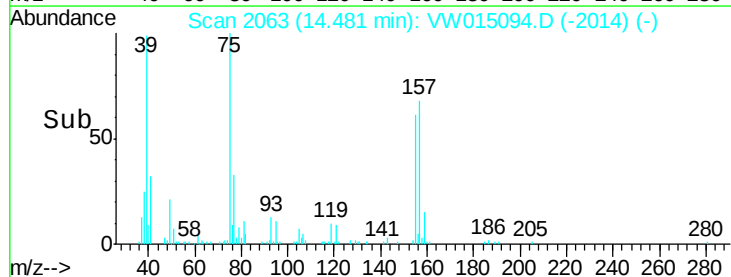
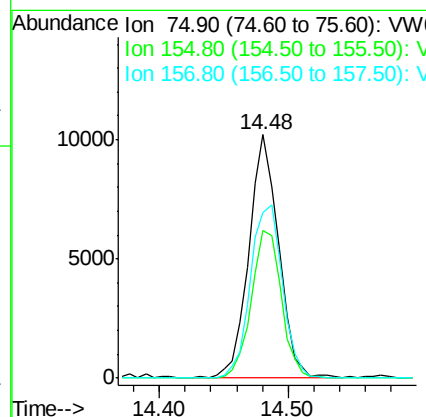
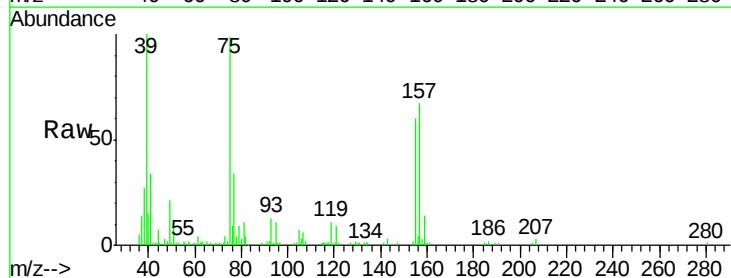
Manual Integrations
 APPROVED

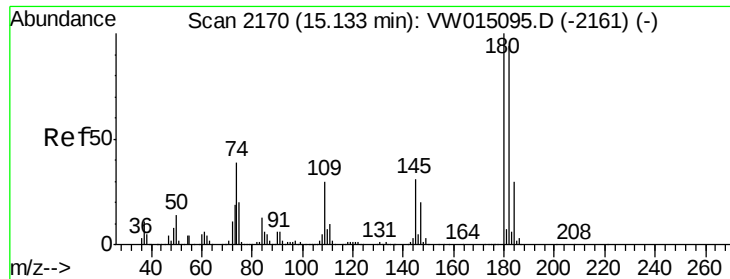
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 3/11/2020 3:23:56 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.537 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	16228		
155	61.1	32.1	96.3	
157	76.6	39.6	118.7	





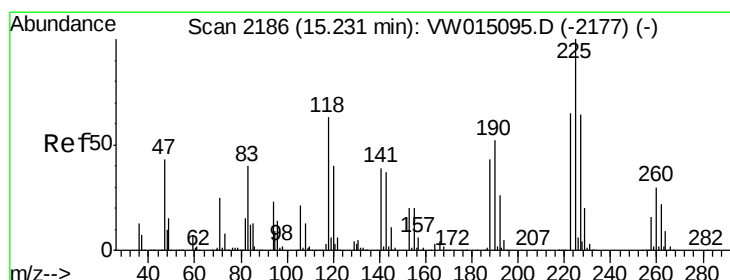
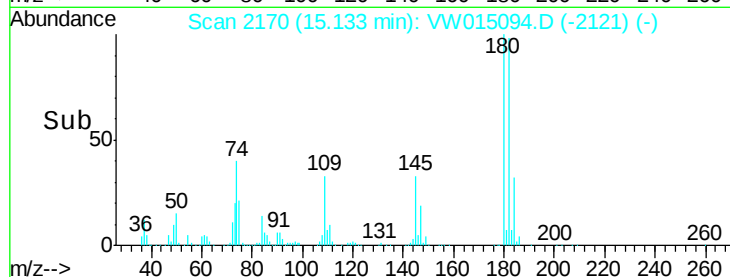
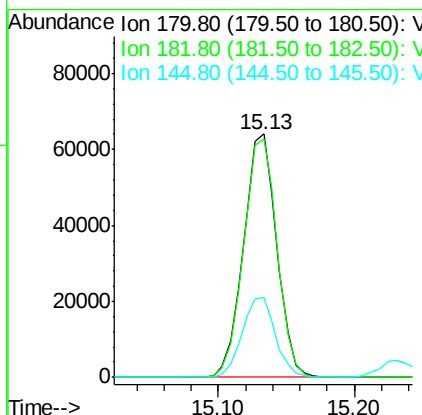
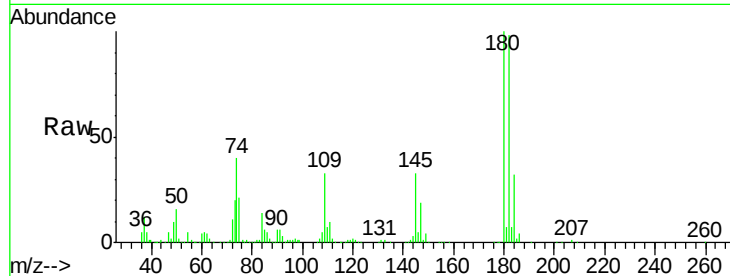
#93
 1,2,4-Trichlorobenzene
 Concen: 20.436 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	109266		
182	98.9	47.6	142.9	
145	33.0	16.2	48.5	

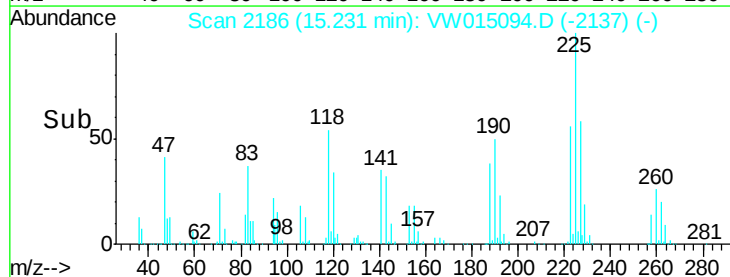
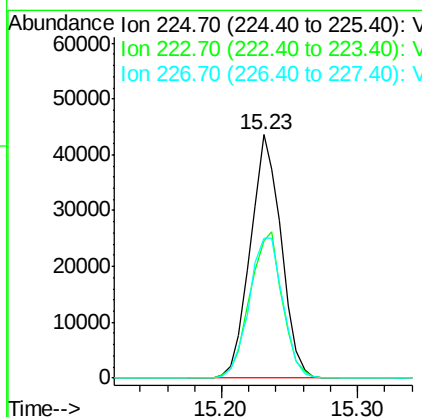
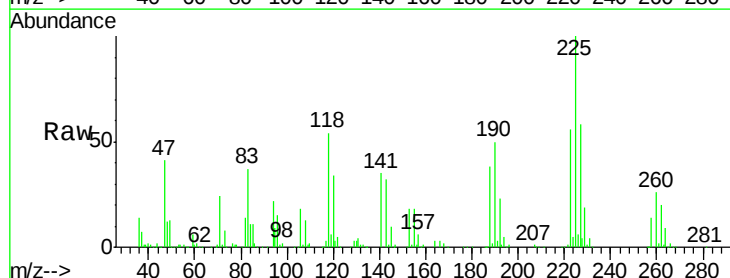
Manual Integrations
 APPROVED

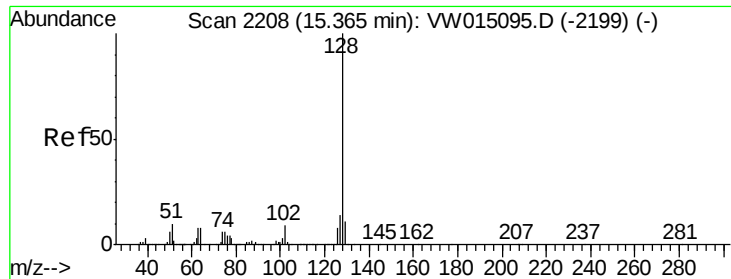
MMDadoda
 3/11/2020 3:23:56 PM



#94
 Hexachlorobutadiene
 Concen: 20.687 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	69445		
223	62.9	32.5	97.4	
227	63.1	33.0	99.0	





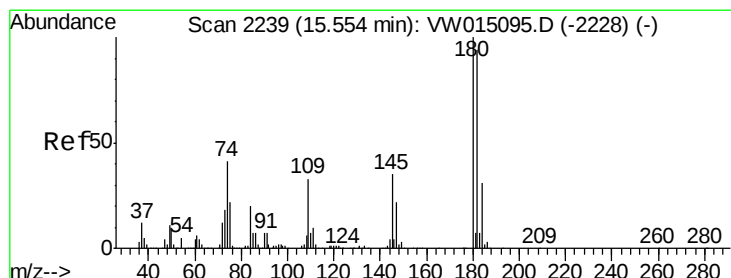
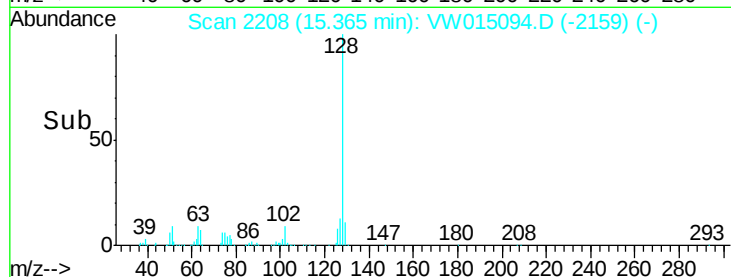
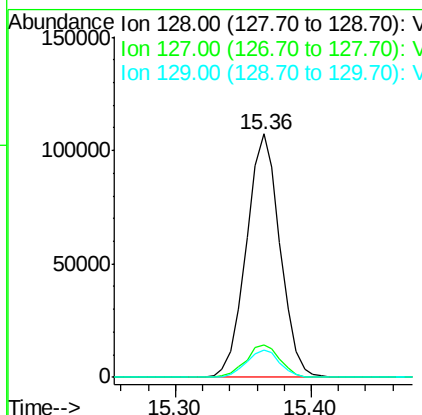
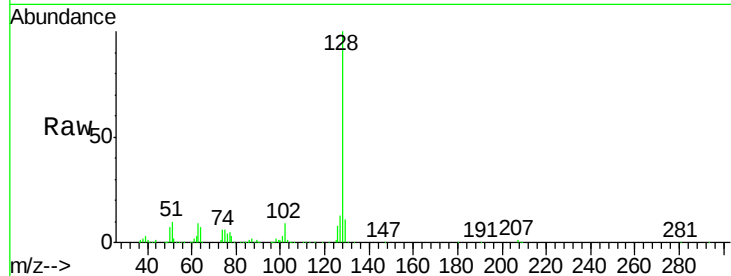
#95
Naphthalene
Concen: 18.653 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.7	16.1
129	11.1	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:23:56 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.879 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.7
145	33.4	17.5	52.6

