

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091619\
 Data File : VW013034.D
 Acq On : 16 Sep 2019 12:06
 Operator : SY/VA
 Sample : VW0916SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 2:00:55 PM

Quant Time: Sep 16 12:40:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	319788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	472992	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	403817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	204310	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	142009	48.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.16%	
35) Dibromofluoromethane	7.88	113	124110	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
50) Toluene-d8	10.32	98	497529	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
62) 4-Bromofluorobenzene	12.62	95	173987	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	28902	21.016	ug/l	98
3) Chloromethane	2.21	50	40093	23.479	ug/l	98
4) Vinyl Chloride	2.35	62	51403	22.457	ug/l	96
5) Bromomethane	2.76	94	30512	21.828	ug/l	90
6) Chloroethane	2.91	64	30592	21.792	ug/l	93
7) Trichlorofluoromethane	3.25	101	33921	21.192	ug/l	90
8) Diethyl Ether	3.68	74	25419	20.338	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.06	101	49414	20.354	ug/l	99
10) Methyl Iodide	4.26	142	65159	21.447	ug/l	99
11) Tert butyl alcohol	5.17	59	23337	104.595	ug/l	98
12) 1,1-Dichloroethene	4.04	96	46418	21.029	ug/l	95
13) Acrolein	3.89	56	23355	103.150	ug/l	98
14) Allyl chloride	4.67	41	92027	21.961	ug/l	96
15) Acrylonitrile	5.37	53	67965	106.470	ug/l	98
16) Acetone	4.12	43	67750	93.477	ug/l	99
17) Carbon Disulfide	4.38	76	96810	22.008	ug/l	98
18) Methyl Acetate	4.67	43	38199	22.702	ug/l	100
19) Methyl tert-butyl Ether	5.42	73	90587	20.790	ug/l	94
20) Methylene Chloride	4.92	84	56269	20.525	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	49703	21.024	ug/l	96
22) Diisopropyl ether	6.31	45	184268	21.167	ug/l	98
23) Vinyl Acetate	6.25	43	539466	103.463	ug/l	98
24) 1,1-Dichloroethane	6.21	63	104782	20.876	ug/l	99
25) 2-Butanone	7.17	43	97264	103.568	ug/l	98
26) 2,2-Dichloropropane	7.16	77	71495	19.828	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	58772	20.764	ug/l	99
28) Bromochloromethane	7.51	49	42505	20.119	ug/l	99
29) Tetrahydrofuran	7.53	42	56691	105.944	ug/l	99
30) Chloroform	7.67	83	103417	20.278	ug/l	98
31) Cyclohexane	7.95	56	92008	22.042	ug/l	96
32) 1,1,1-Trichloroethane	7.87	97	84222	20.053	ug/l	97
36) 1,1-Dichloropropene	8.08	75	77605	20.532	ug/l	100
37) Ethyl Acetate	7.25	43	40386	20.131	ug/l	99
38) Carbon Tetrachloride	8.07	117	75503	19.493	ug/l	100

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 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	87747	21.187	ug/l	96
40) Benzene	8.32	78	216870	20.554	ug/l	100
41) Methacrylonitrile	7.48	41	23977	18.149	ug/l	93
42) 1,2-Dichloroethane	8.40	62	68296	19.309	ug/l	96
43) Isopropyl Acetate	8.42	43	77009	19.992	ug/l	99
44) Trichloroethene	9.09	130	58549	20.258	ug/l	95
45) 1,2-Dichloropropane	9.37	63	56930	20.308	ug/l	98
46) Dibromomethane	9.46	93	27532	20.499	ug/l	98
47) Bromodichloromethane	9.64	83	73459	19.499	ug/l	99
48) Methyl methacrylate	9.43	41	36370	20.119	ug/l	98
49) 1,4-Dioxane	9.45	88	9015	400.577	ug/l	91
51) 4-Methyl-2-Pentanone	10.21	43	200797	100.971	ug/l	99
52) Toluene	10.38	92	136547	20.366	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	75223	19.854	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	89585	20.665	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	40818	19.950	ug/l	97
56) Ethyl methacrylate	10.65	69	56256	20.427	ug/l	97
57) 1,3-Dichloropropane	10.93	76	73121	20.146	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	150227	101.687	ug/l	99
59) 2-Hexanone	10.97	43	139557	100.783	ug/l	100
60) Dibromochloromethane	11.13	129	47346	19.140	ug/l	97
61) 1,2-Dibromoethane	11.24	107	36997	19.822	ug/l	100
64) Tetrachloroethene	10.86	164	47739	19.872	ug/l	99
65) Chlorobenzene	11.65	112	145047	20.165	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	53228	19.310	ug/l	98
67) Ethyl Benzene	11.73	91	268463	20.209	ug/l	100
68) m/p-Xylenes	11.83	106	199697	41.149	ug/l	100
69) o-Xylene	12.16	106	94169	20.698	ug/l	99
70) Styrene	12.18	104	162447	20.071	ug/l	100
71) Bromoform	12.35	173	27955	19.308	ug/l #	98
73) Isopropylbenzene	12.46	105	270067	19.943	ug/l	99
74) N-amyl acetate	12.27	43	68782	19.744	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	48517	20.398	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	32019m	17.892	ug/l	
77) Bromobenzene	12.74	156	62093	19.903	ug/l	98
78) n-propylbenzene	12.80	91	319741	20.072	ug/l	100
79) 2-Chlorotoluene	12.89	91	181630	19.834	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	224256	19.574	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	15987	20.265	ug/l	97
82) 4-Chlorotoluene	12.99	91	190579	19.725	ug/l	99
83) tert-Butylbenzene	13.21	119	197766	19.299	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	225054	19.879	ug/l	100
85) sec-Butylbenzene	13.38	105	272720	19.533	ug/l	99
86) p-Isopropyltoluene	13.50	119	253903	19.807	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	120236	19.469	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	119693	19.722	ug/l	99
89) n-Butylbenzene	13.82	91	236251	19.543	ug/l	99
90) Hexachloroethane	14.09	117	43738	19.040	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	107507	19.795	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.48	75	7909	18.166	ug/l	98

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ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

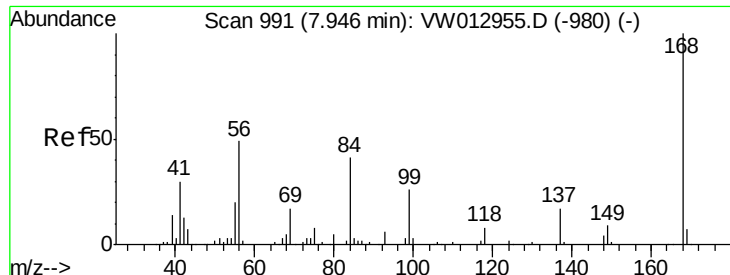
Manual Integrations
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QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	74643	19.271	ug/l	99
94) Hexachlorobutadiene	15.24	225	52416	19.116	ug/l	98
95) Naphthalene	15.36	128	130756	20.204	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	66480	19.416	ug/l	99

(#) = 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: VW013034.D

Acq: 16 Sep 2019 12:06

Tot Ion: 168 Resp: 319788

Ion Ratio Lower Upper

168 100

99 55.1 46.2 69.2

Instrument :

MSVOA_W

ClientSampleId :

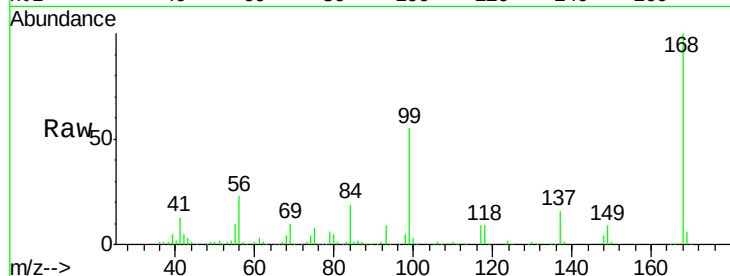
VW0916SBSD01

Manual Integrations

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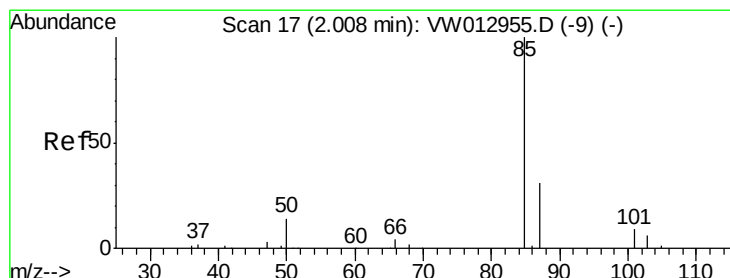
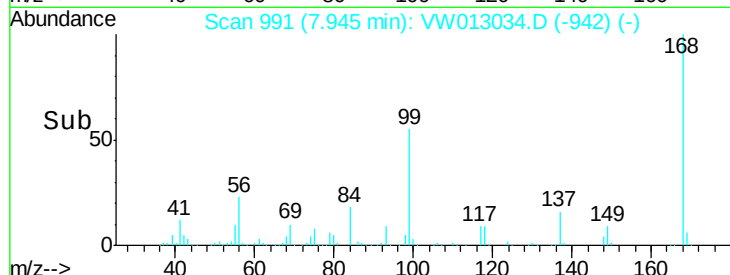
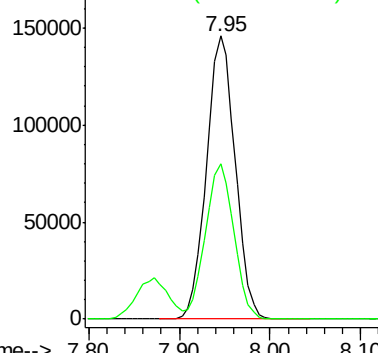
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 21.016 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013034.D

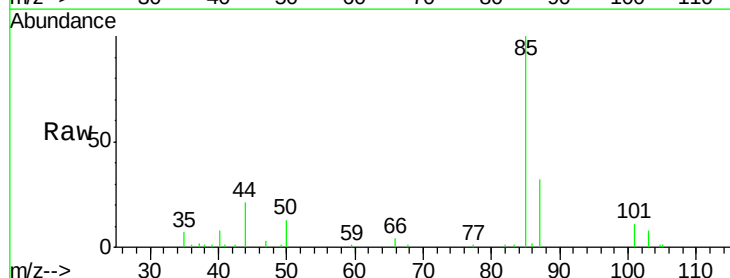
Acq: 16 Sep 2019 12:06

Tgt Ion: 85 Resp: 28902

Ion Ratio Lower Upper

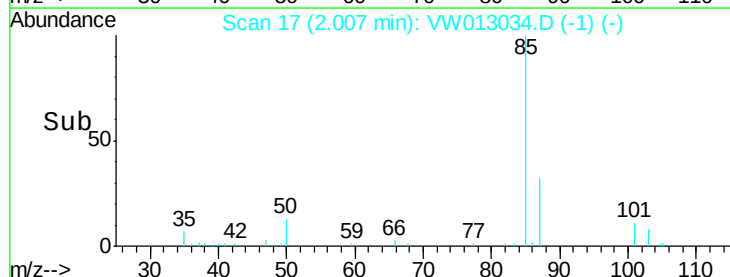
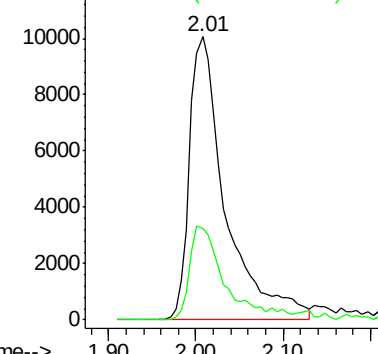
85 100

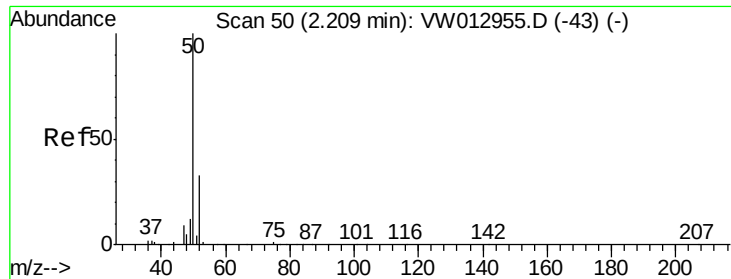
87 32.2 15.4 46.4



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 23.479 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBSD01

Tot Ion: 50 Resp: 40093

Ion Ratio Lower Upper

50 100

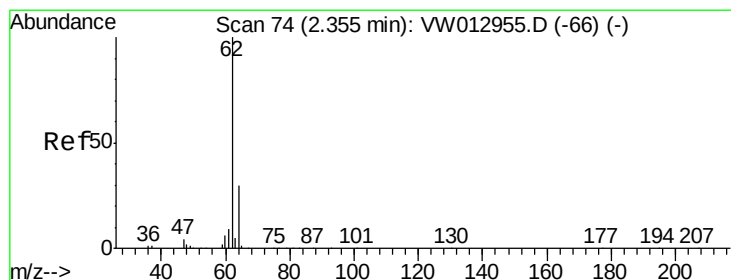
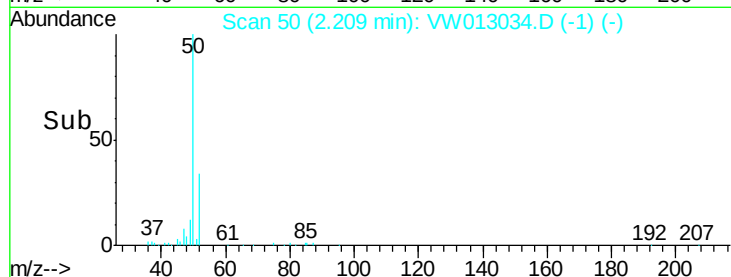
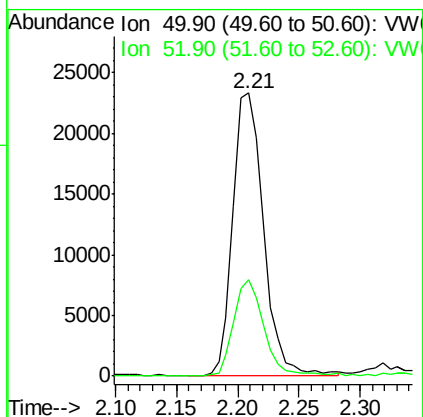
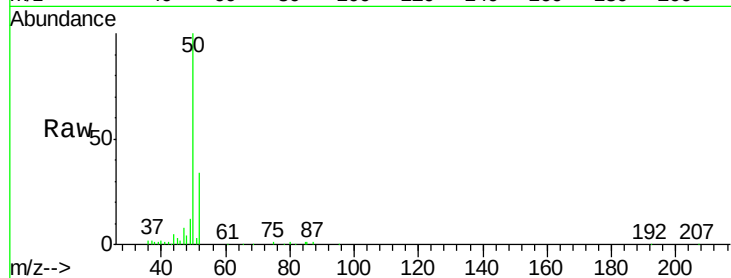
52 34.1 26.6 39.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 22.457 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW013034.D

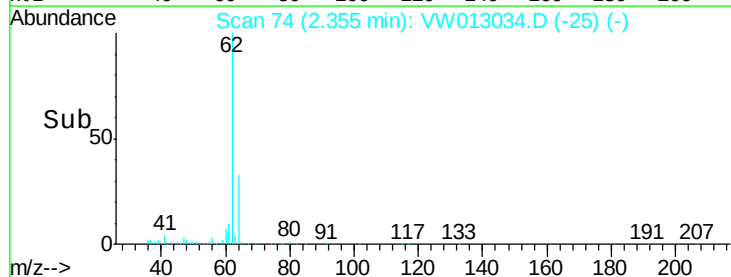
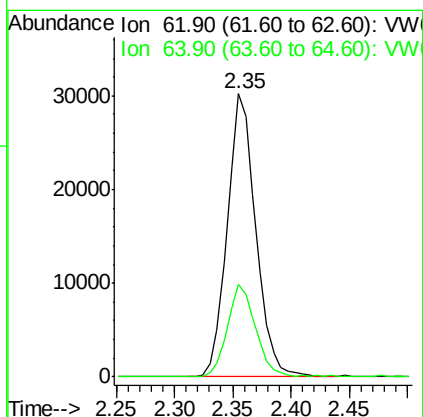
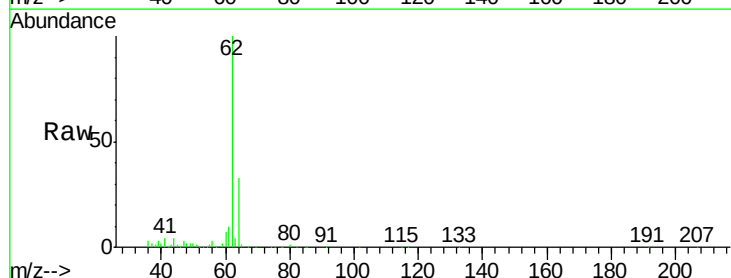
Acq: 16 Sep 2019 12:06

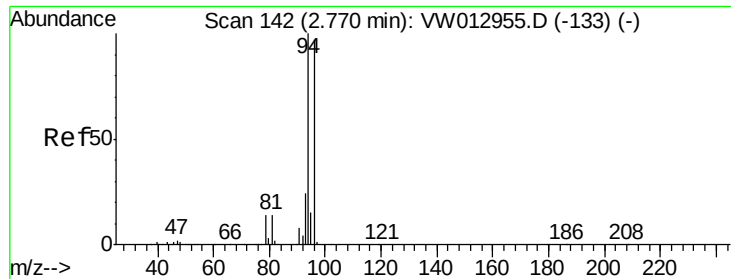
Tgt Ion: 62 Resp: 51403

Ion Ratio Lower Upper

62 100

64 32.7 24.2 36.4





#5

Bromomethane

Concen: 21.828 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBS01

Tot Ion: 94 Resp: 30512

Ion Ratio Lower Upper

94 100

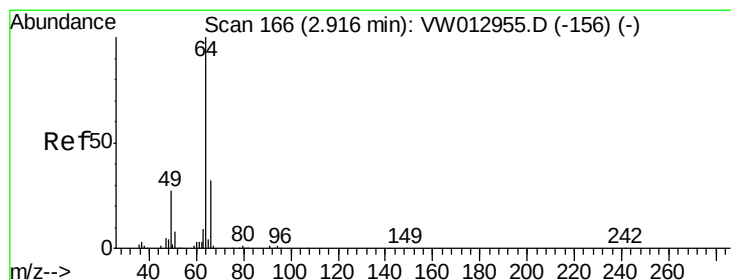
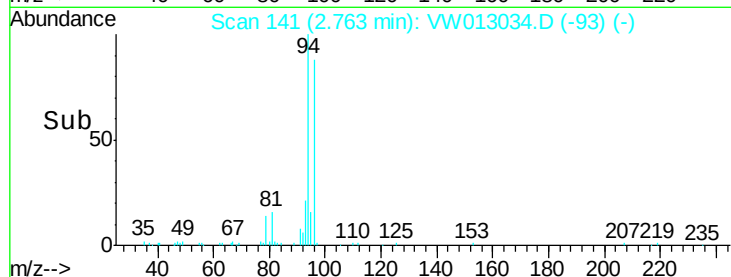
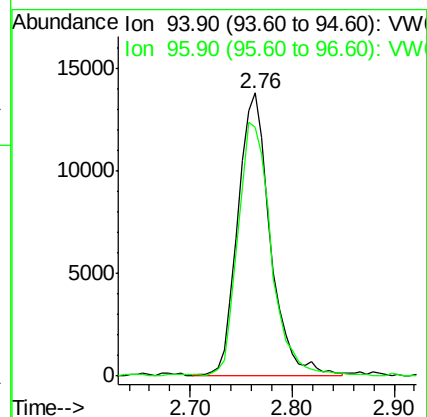
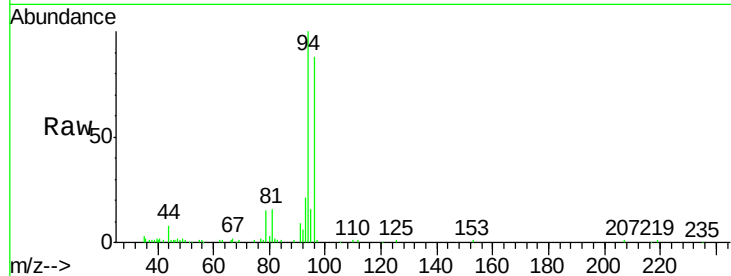
96 87.4 77.8 116.6

Manual Integrations

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#6

Chloroethane

Concen: 21.792 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW013034.D

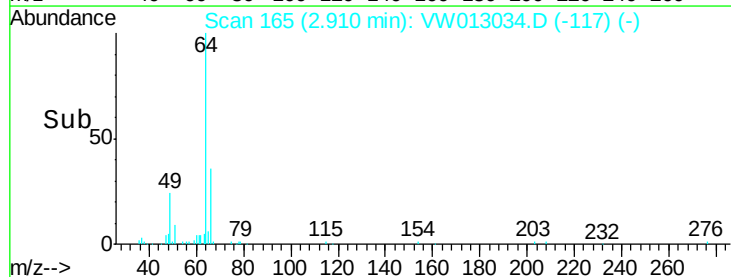
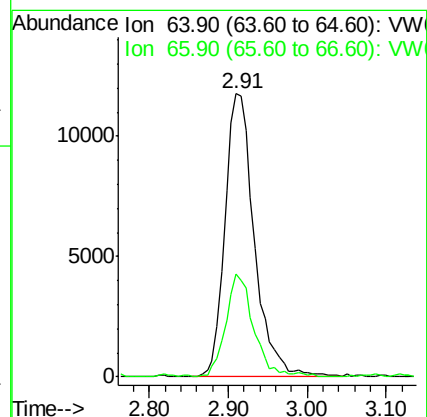
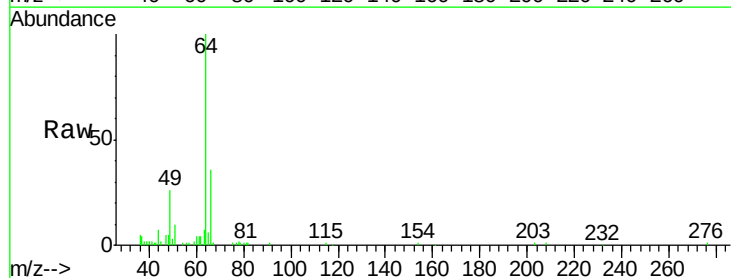
Acq: 16 Sep 2019 12:06

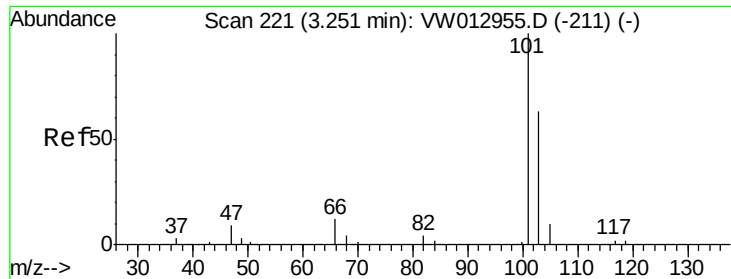
Tgt Ion: 64 Resp: 30592

Ion Ratio Lower Upper

64 100

66 36.4 25.9 38.9





#7

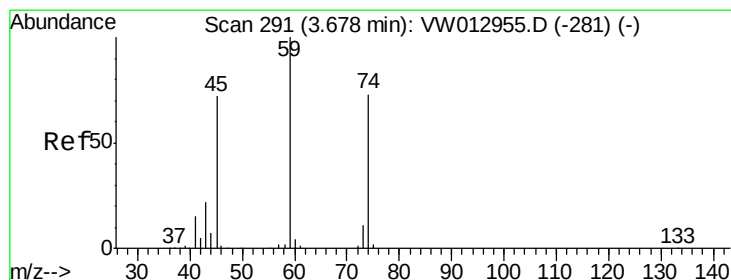
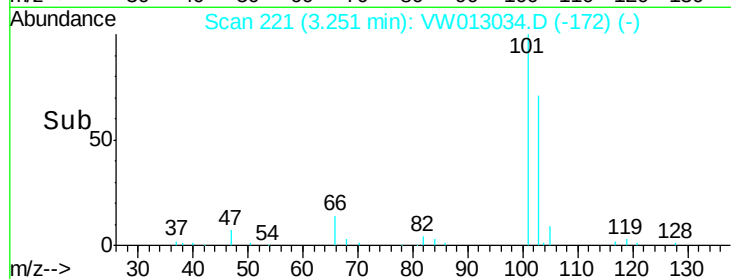
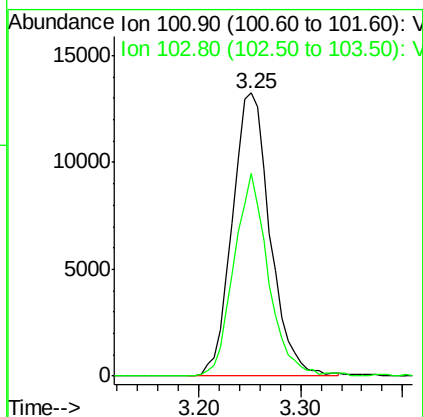
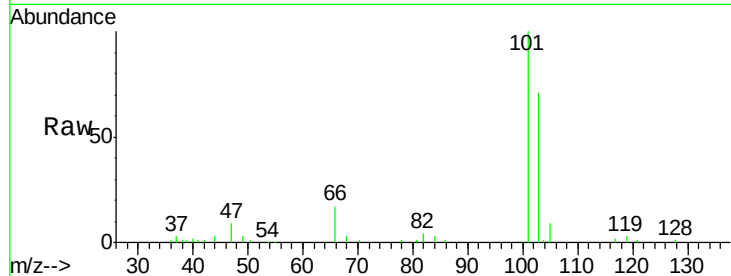
Trichlorofluoromethane
 Concen: 21.192 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
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 VW0916SBS01

Tot Ion	101	Resp	33921
Ion Ratio	100	Lower	Upper
101	100		
103	71.4	50.7	76.1

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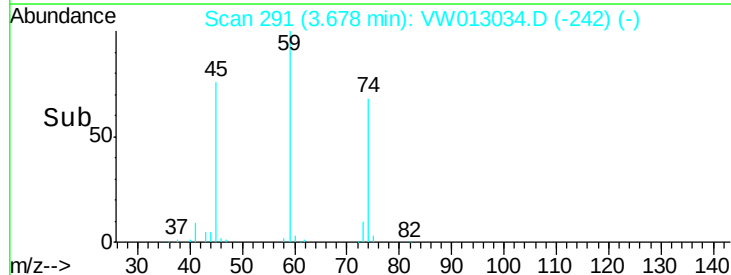
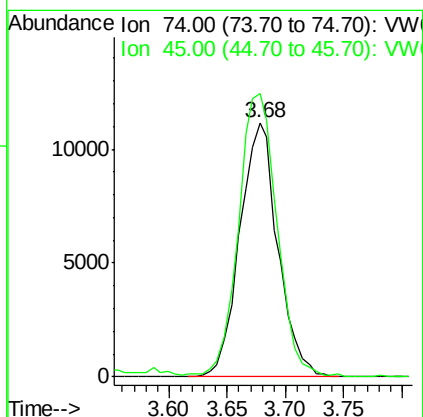
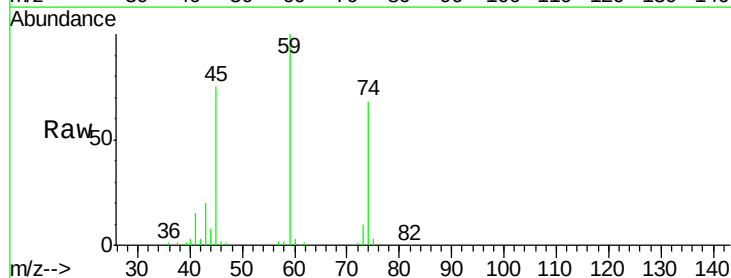
MMDadoda
 9/18/2019 2:00:55 PM

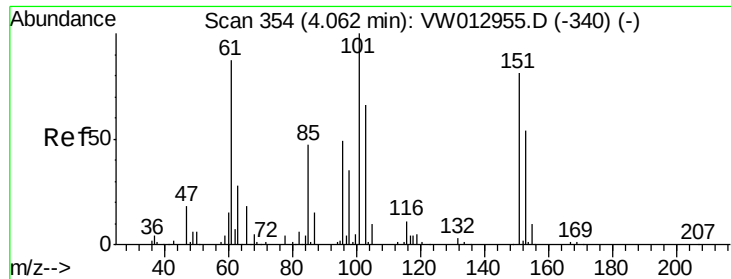


#8

Diethyl Ether
 Concen: 20.338 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	74	Resp	25419
Ion Ratio	100	Lower	Upper
74	100		
45	113.6	53.8	161.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.354 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

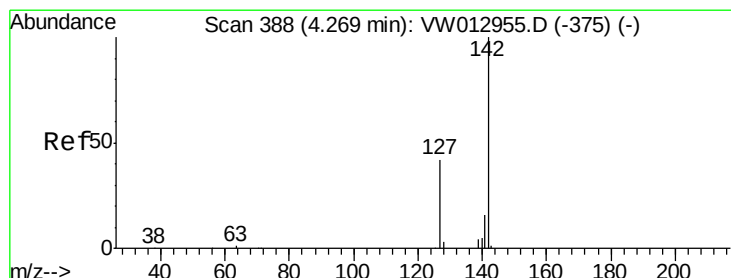
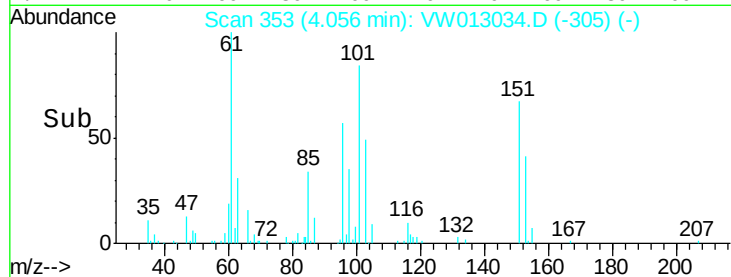
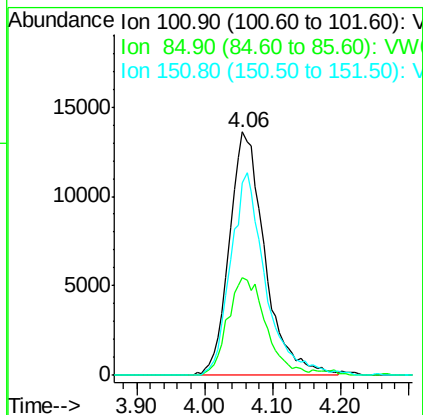
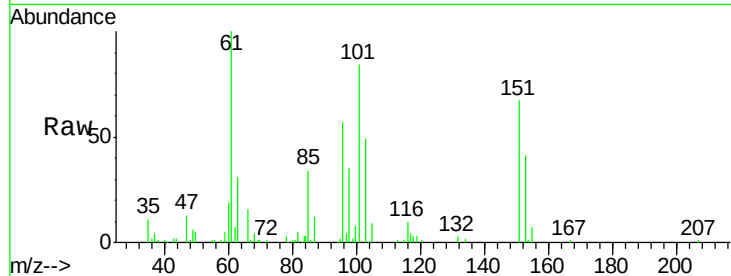
ClientSampleId :

VW0916SBSD01

Tot Ion:	101	Resp:	49414
Ion Ratio	Lower	Upper	
101	100		
85	42.7	34.9	52.3
151	81.6	66.0	99.0

Manual Integrations
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#10

Methyl Iodide

Concen: 21.447 ug/l

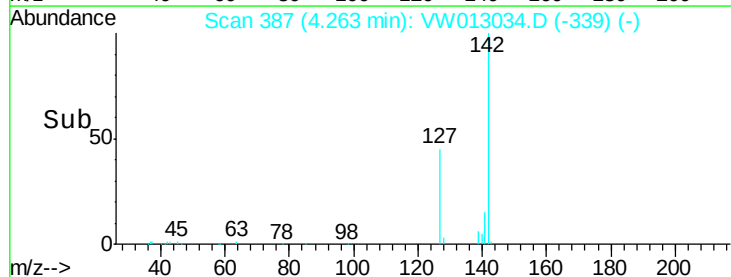
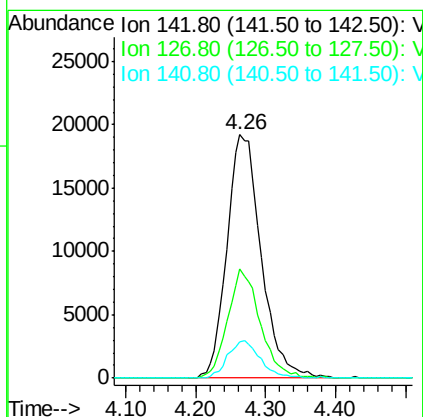
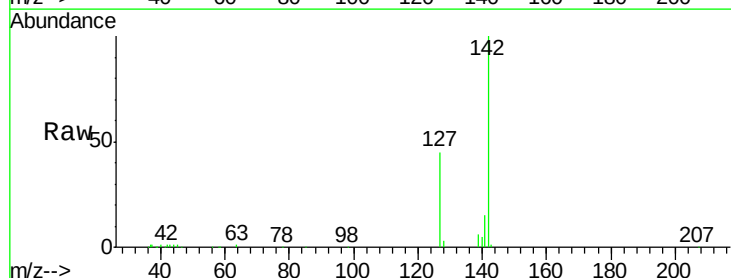
RT: 4.26 min Scan# 387

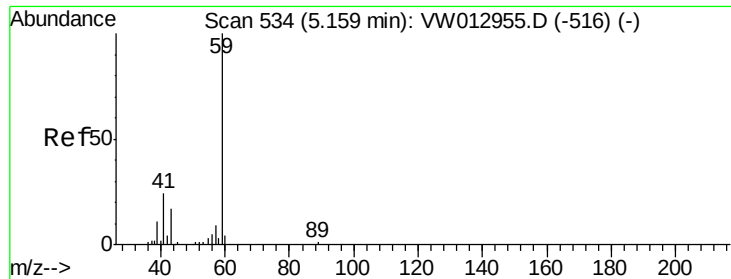
Delta R.T. -0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Tgt Ion:	142	Resp:	65159
Ion Ratio	Lower	Upper	
142	100		
127	42.7	34.7	52.1
141	14.7	12.2	18.2





#11

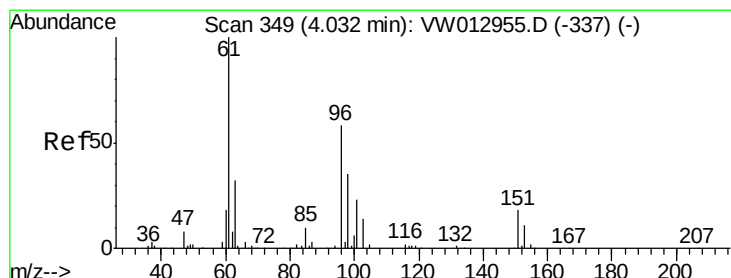
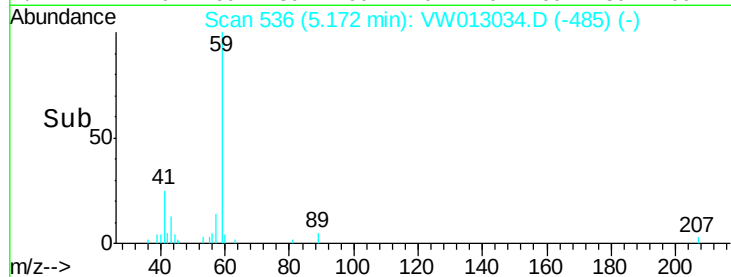
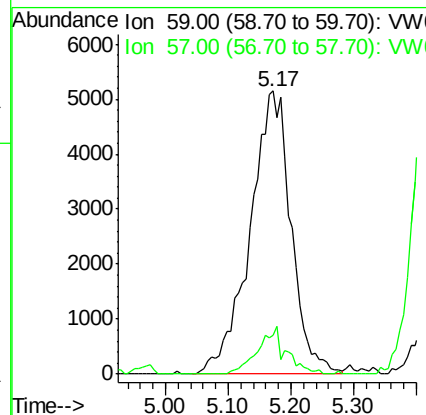
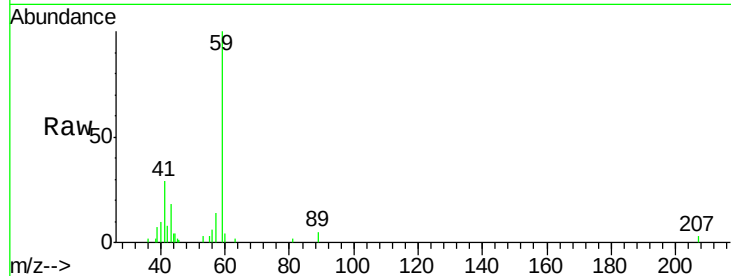
Tert butyl alcohol
Concen: 104.595 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	59	Resp	23337
Ion Ratio	100	Lower	Upper
57	11.5	8.5	12.7

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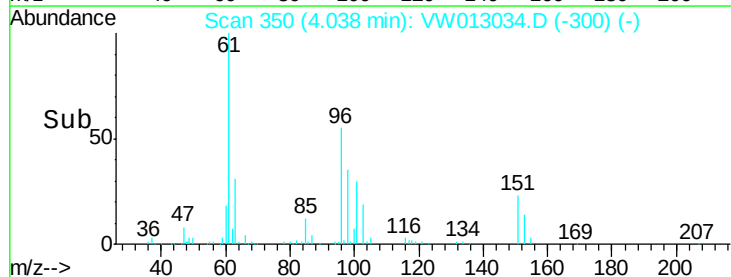
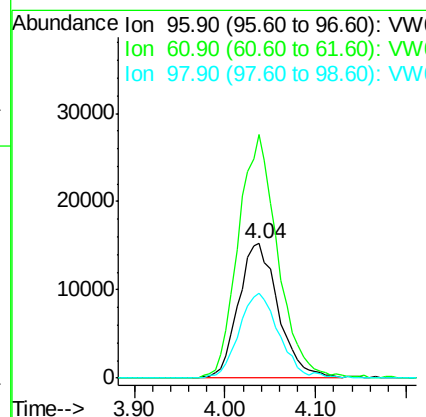
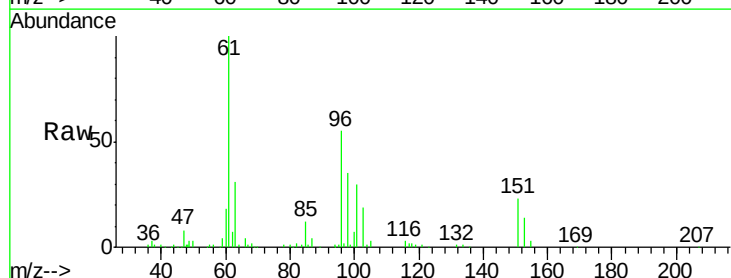
MMDadoda
9/18/2019 2:00:55 PM

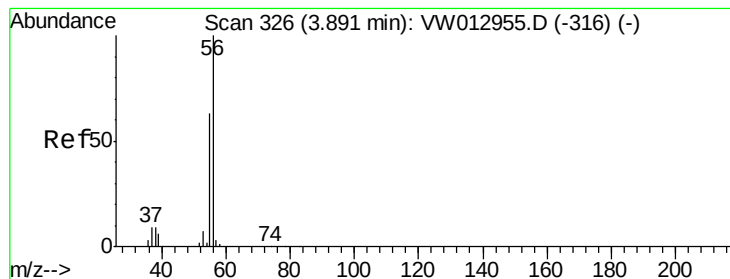


#12

1,1-Dichloroethene
Concen: 21.029 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	96	Resp	46418
Ion Ratio	100	Lower	Upper
61	180.8	137.9	206.9
98	63.2	48.9	73.3





#13

Acrolein

Concen: 103.150 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBS01

Tot Ion: 56 Resp: 23355

Ion Ratio Lower Upper

56 100

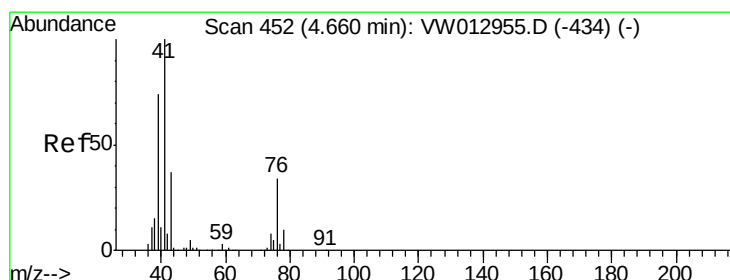
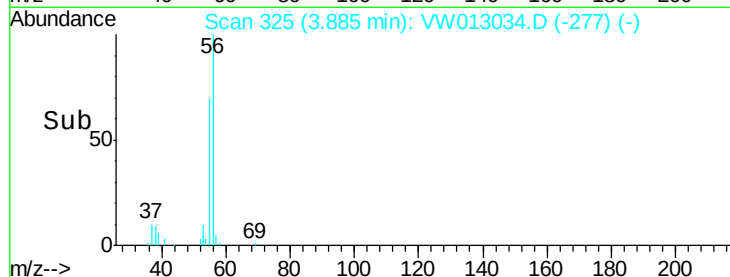
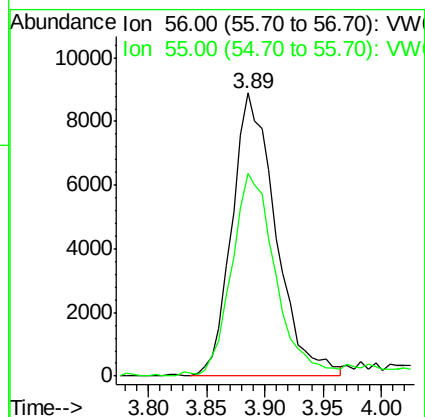
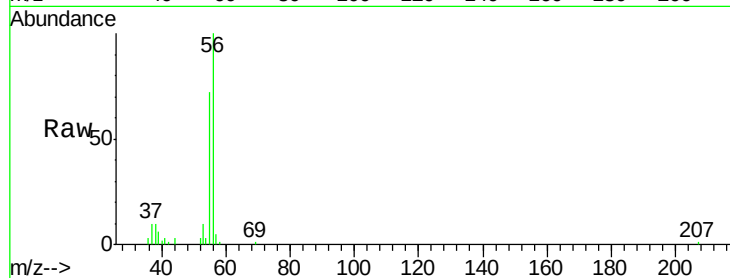
55 71.6 55.8 83.8

Manual Integrations

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9/18/2019 2:00:55 PM



#14

Allyl chloride

Concen: 21.961 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

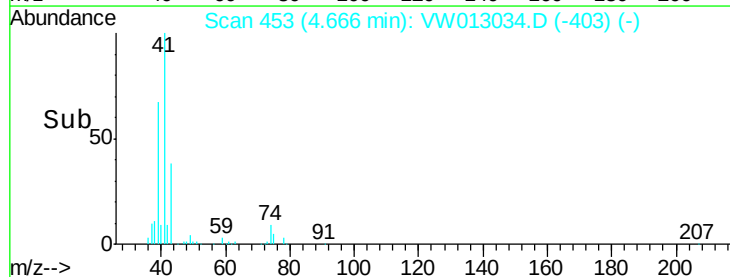
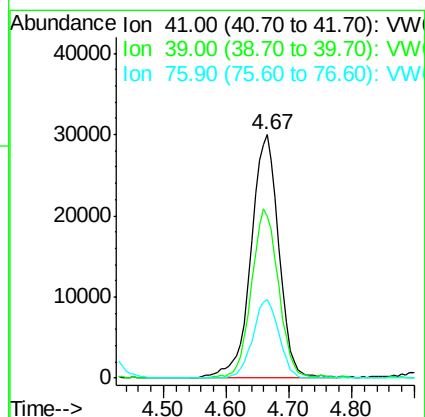
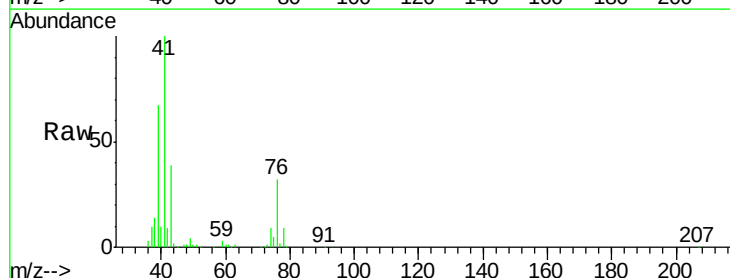
Tgt Ion: 41 Resp: 92027

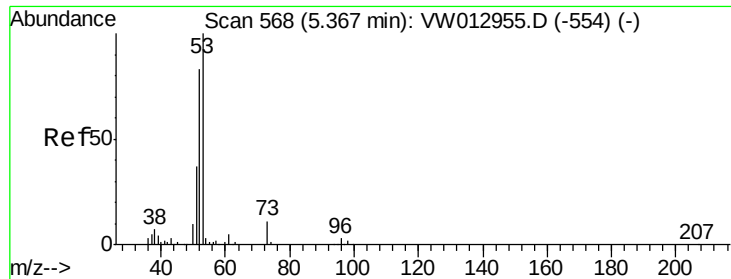
Ion Ratio Lower Upper

41 100

39 67.3 56.7 85.1

76 30.3 25.1 37.7





#15

Acrylonitrile

Concen: 106.470 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

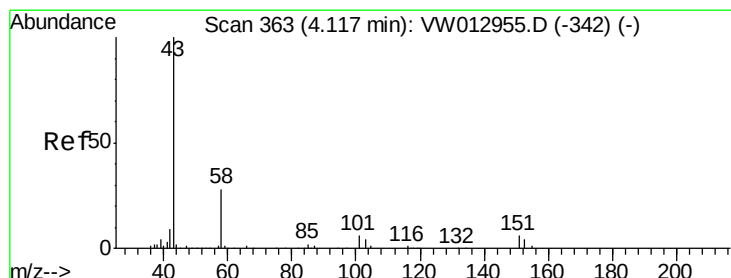
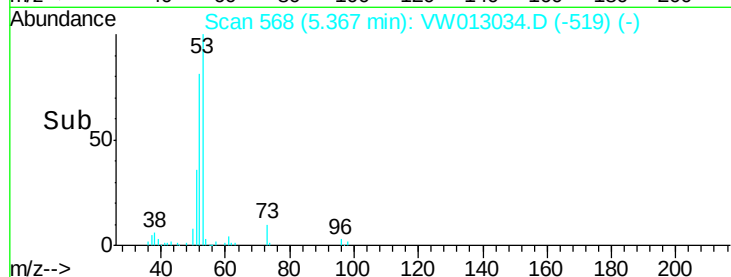
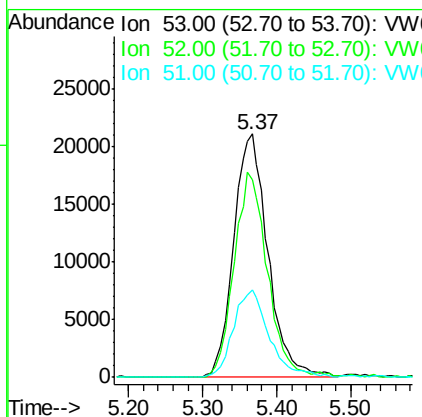
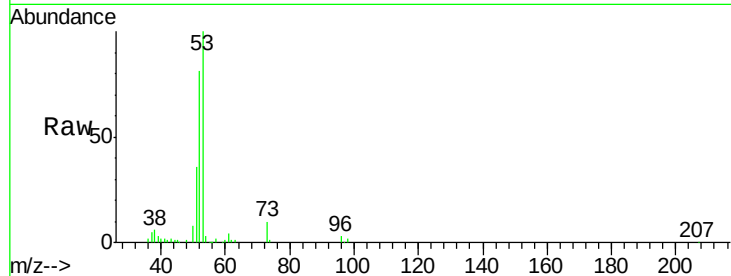
ClientSampleId :

VW0916SBS01

Tot Ion:	53	Resp:	67965
Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.6	100.0
51	37.3	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 93.477 ug/l

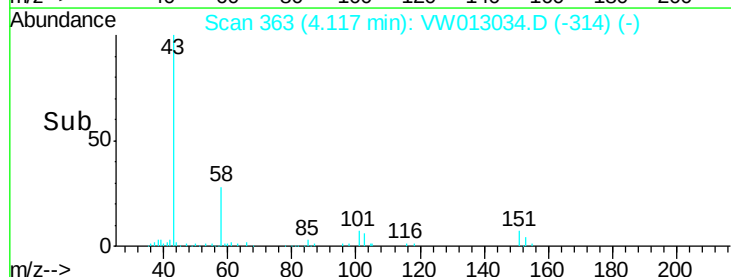
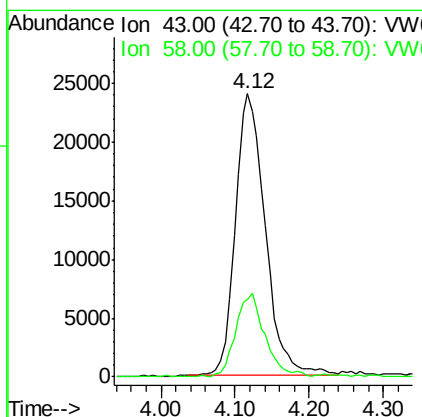
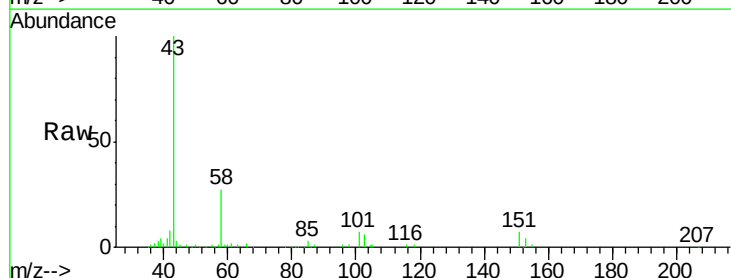
RT: 4.12 min Scan# 363

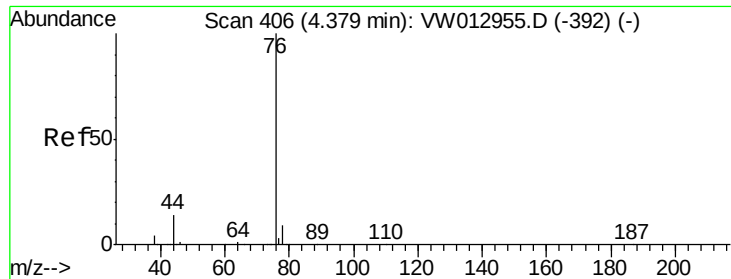
Delta R.T. 0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Tgt Ion:	43	Resp:	67750
Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.3	33.5





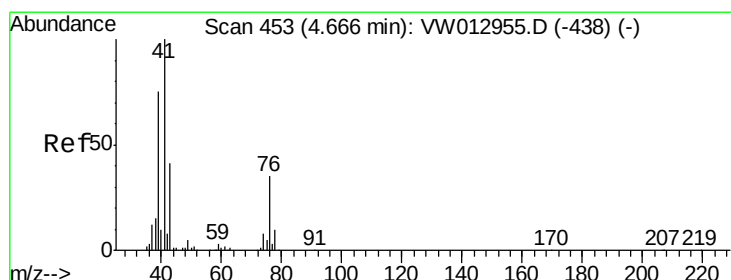
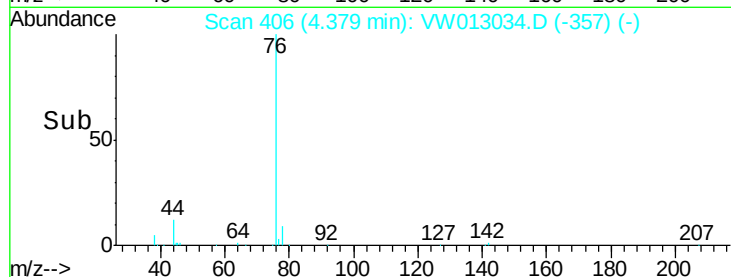
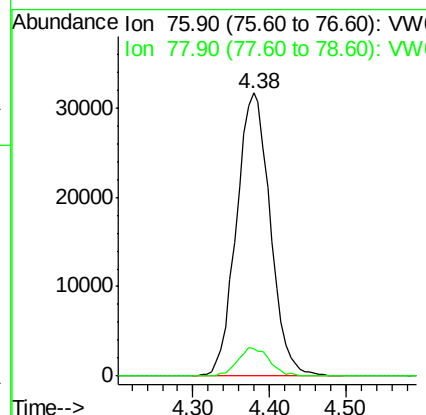
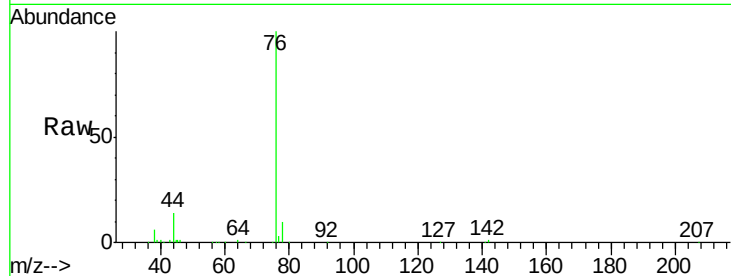
#17
Carbon Disulfide
Concen: 22.008 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.0	10.4

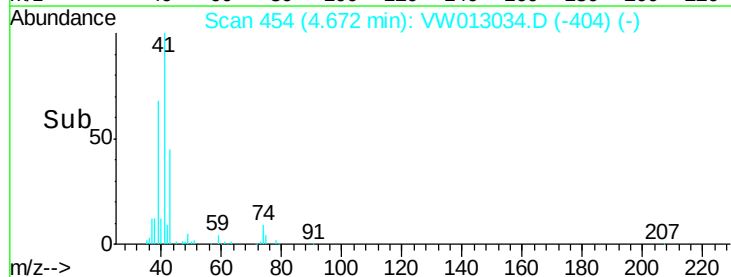
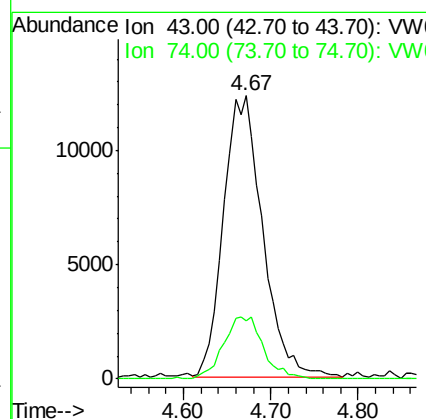
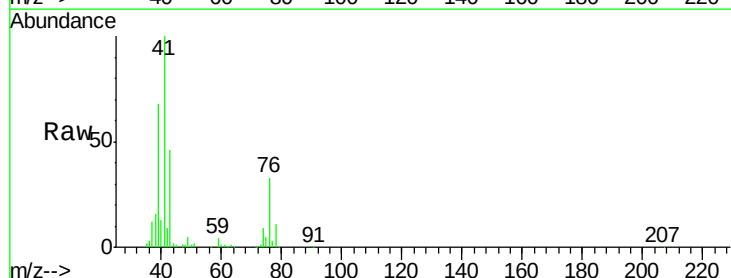
Manual Integrations
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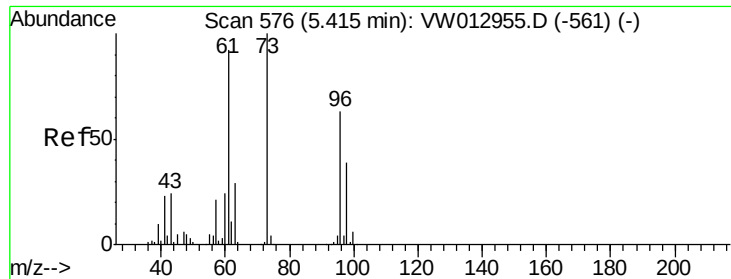
MMDadoda
9/18/2019 2:00:55 PM



#18
Methyl Acetate
Concen: 22.702 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.8	26.8





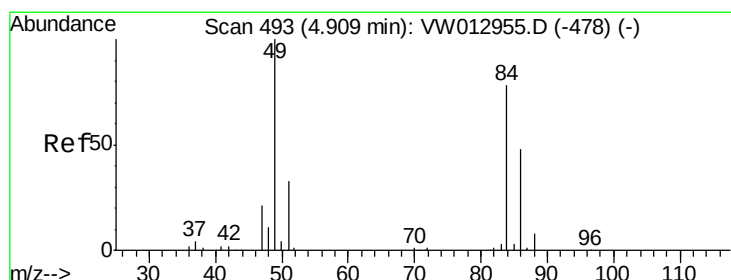
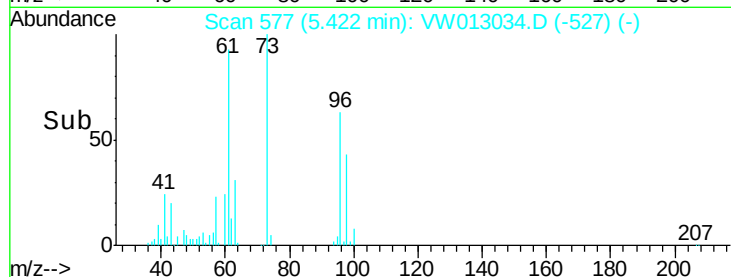
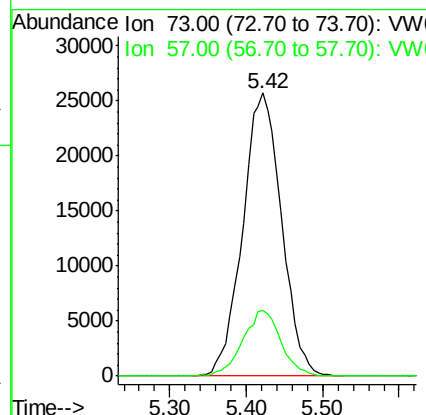
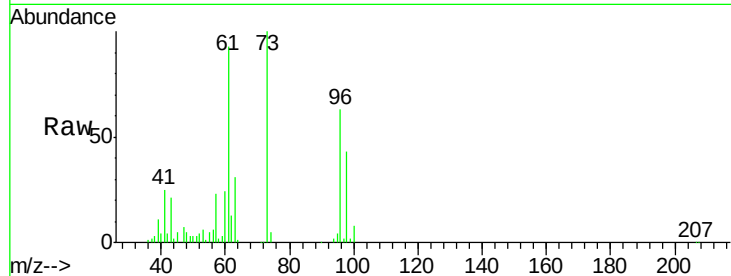
#19
Methyl tert-butyl Ether
Concen: 20.790 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.1	16.4	24.6

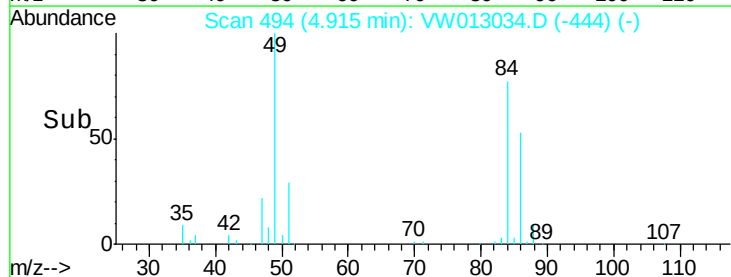
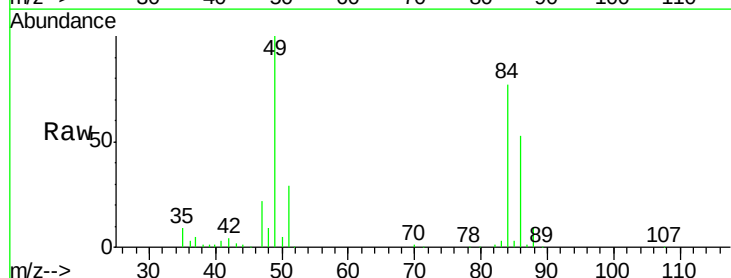
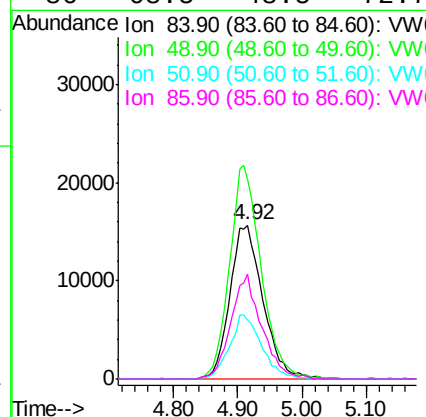
Manual Integrations
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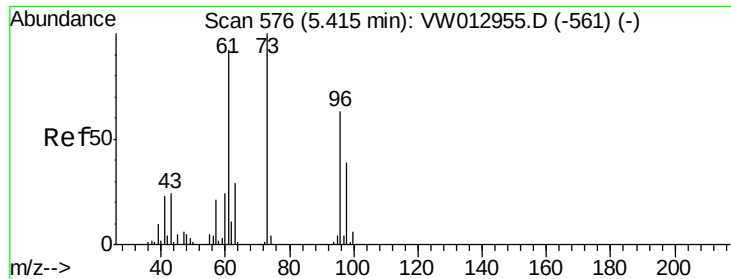
MMDadoda
9/18/2019 2:00:55 PM



#20
Methylene Chloride
Concen: 20.525 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	130.0	102.0	153.0
51	38.1	34.0	51.0
86	68.5	48.5	72.7





#21

trans-1,2-Dichloroethene

Concen: 21.024 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

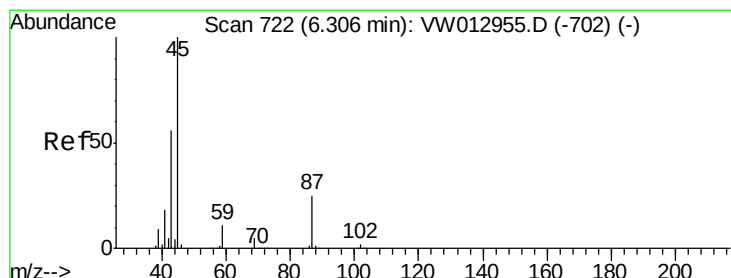
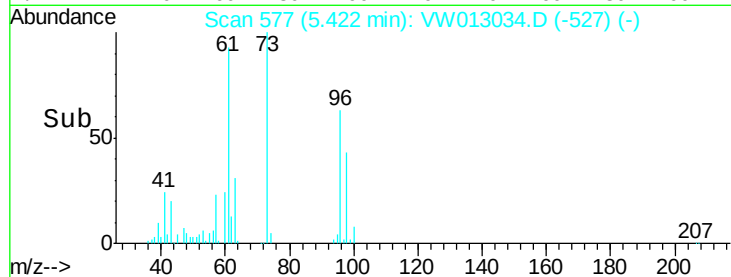
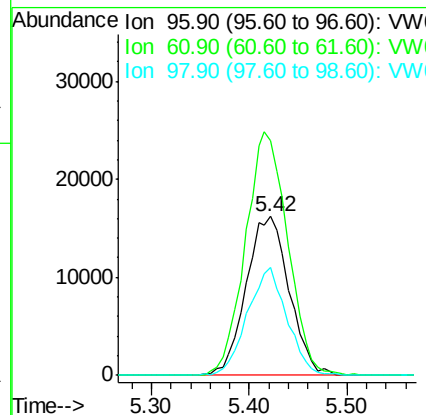
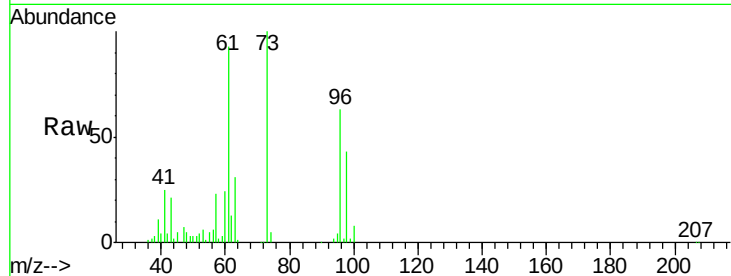
ClientSampleId :

VW0916SBSD01

Tot Ion:	96	Resp:	49703
Ion	Ratio	Lower	Upper
96	100		
61	148.2	116.2	174.2
98	67.8	49.8	74.6

Manual Integrations
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9/18/2019 2:00:55 PM



#22

Diisopropyl ether

Concen: 21.167 ug/l

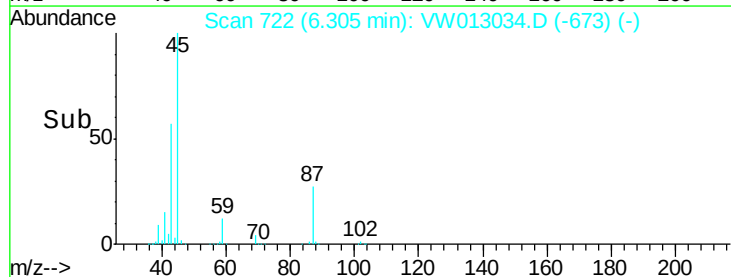
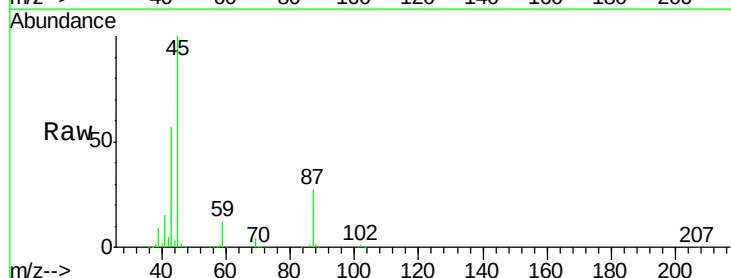
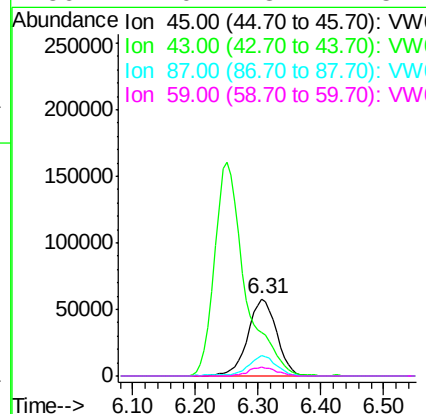
RT: 6.31 min Scan# 722

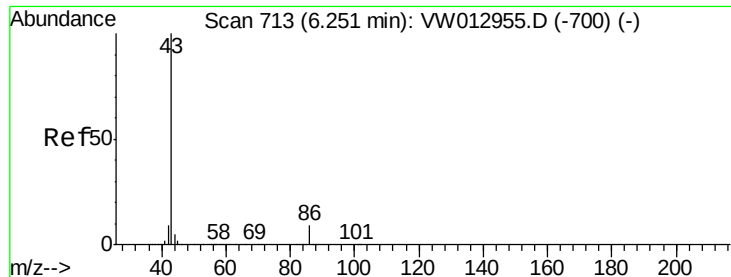
Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Tgt Ion:	45	Resp:	184268
Ion	Ratio	Lower	Upper
45	100		
43	55.9	44.6	67.0
87	27.0	20.0	30.0
59	12.0	8.7	13.1





#23

Vinyl Acetate

Concen: 103.463 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampled :

VW0916SBS01

Tot Ion: 43 Resp: 539466

Ion Ratio Lower Upper

43 100

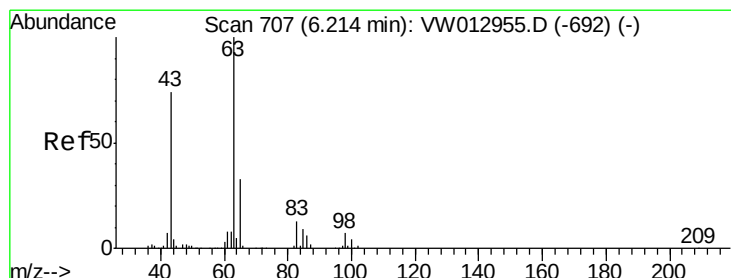
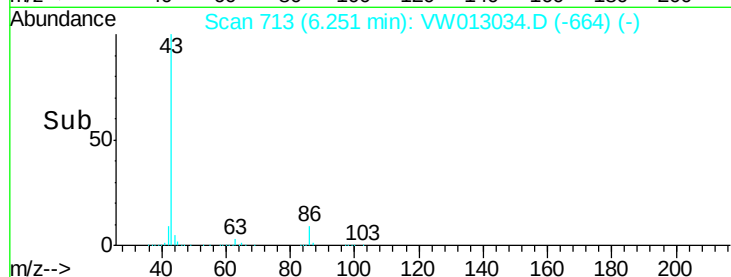
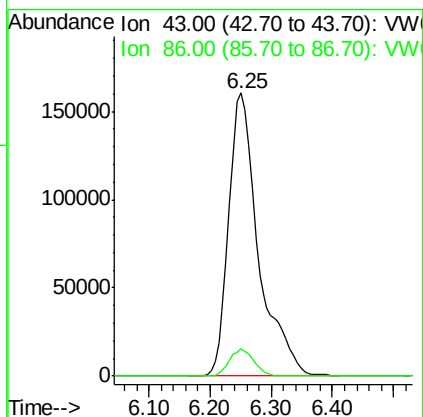
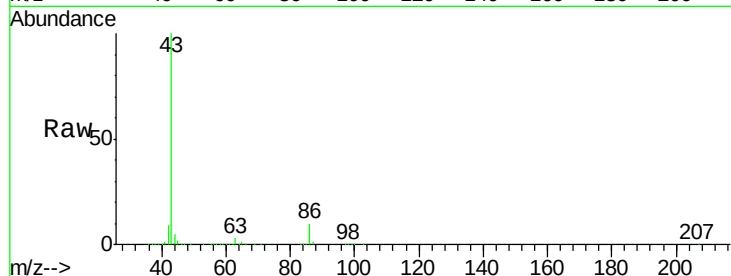
86 9.5 7.0 10.6

Manual Integrations

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MMDadoda

9/18/2019 2:00:55 PM



#24

1,1-Dichloroethane

Concen: 20.876 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

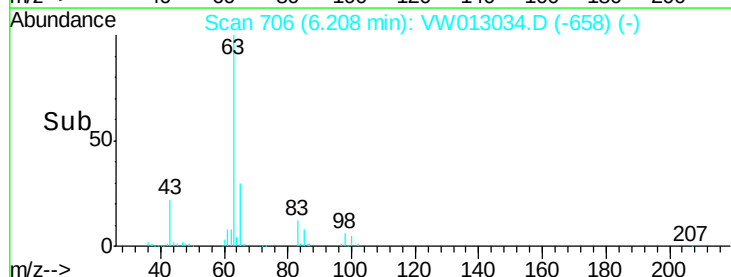
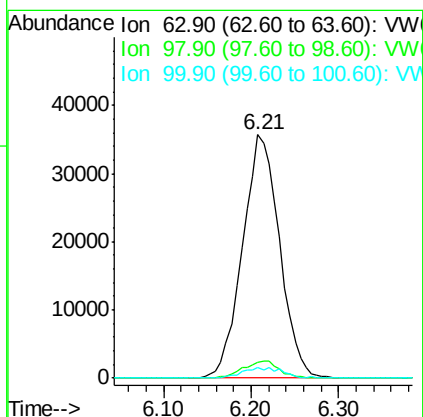
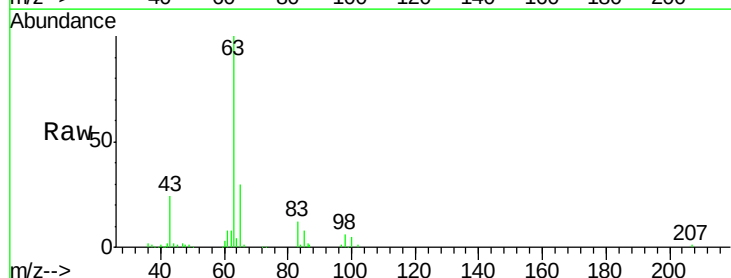
Tgt Ion: 63 Resp: 104782

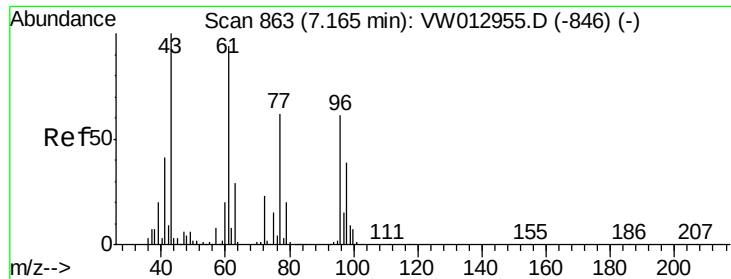
Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.9

100 4.6 1.8 5.5





#25

2-Butanone

Concen: 103.568 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBS01

Tot Ion: 43 Resp: 97264

Ion Ratio Lower Upper

43 100

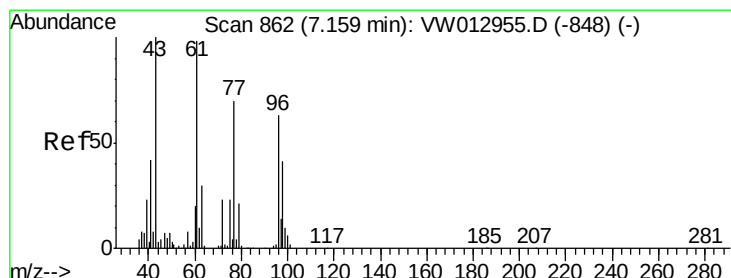
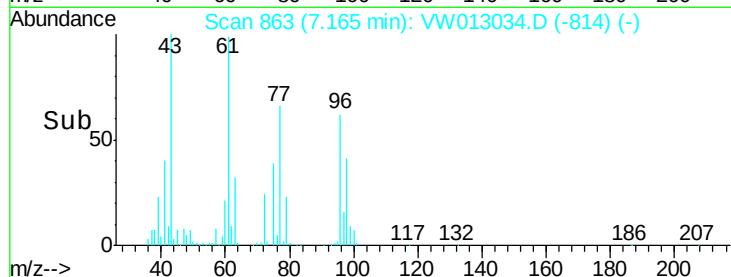
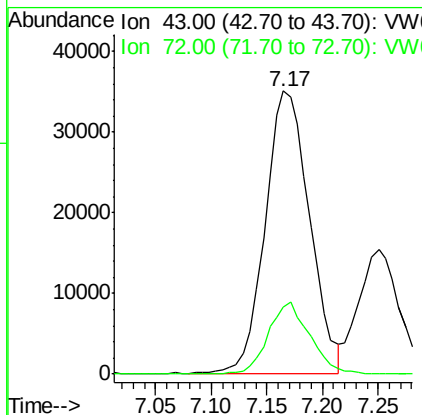
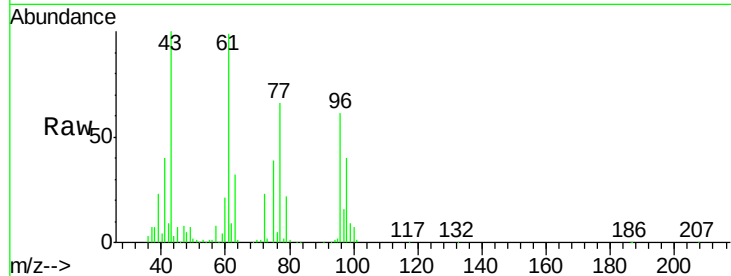
72 23.5 18.2 27.4

Manual Integrations

APPROVED

MMDadoda

9/18/2019 2:00:55 PM



#26

2,2-Dichloropropane

Concen: 19.828 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.00 min

Lab File: VW013034.D

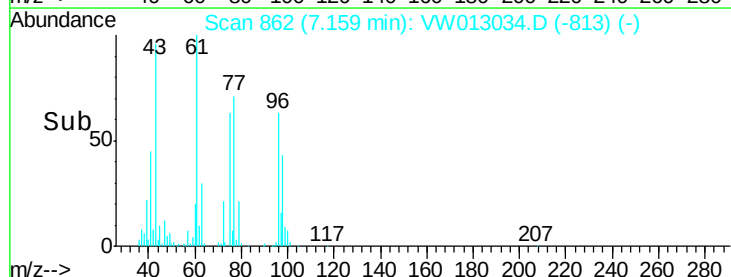
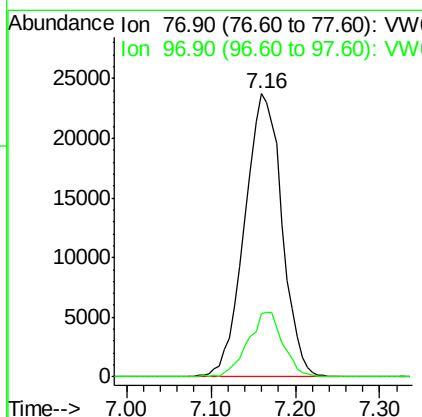
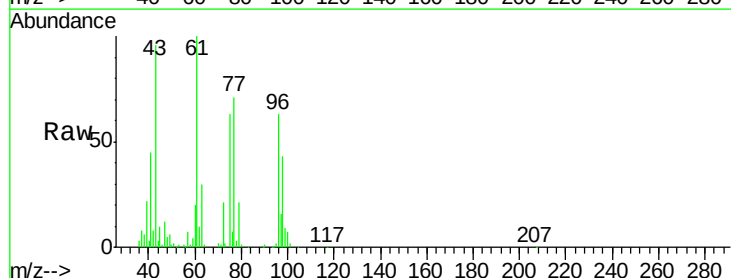
Acq: 16 Sep 2019 12:06

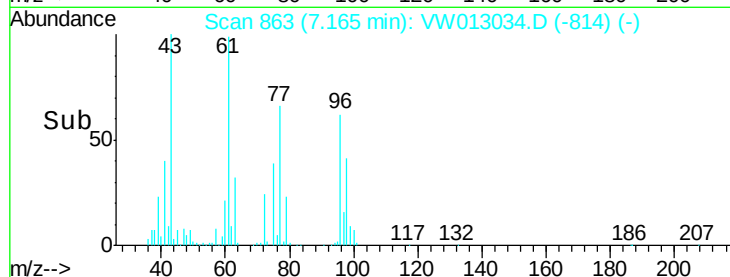
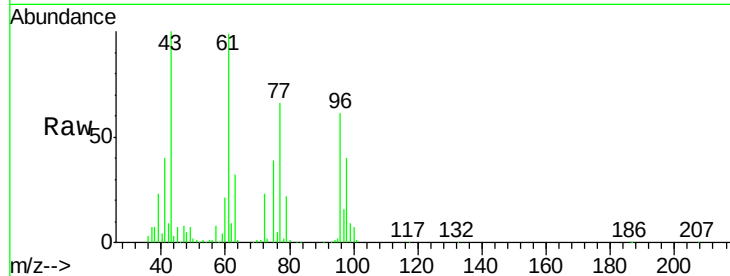
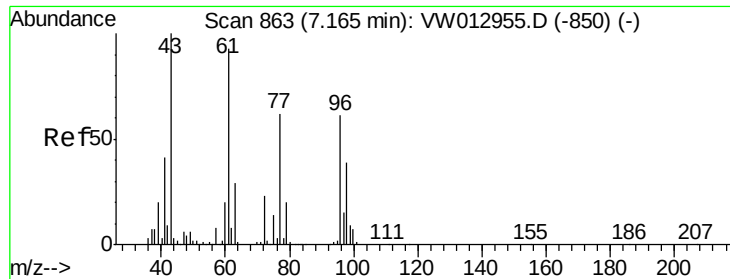
Tgt Ion: 77 Resp: 71495

Ion Ratio Lower Upper

77 100

97 21.7 10.7 32.1





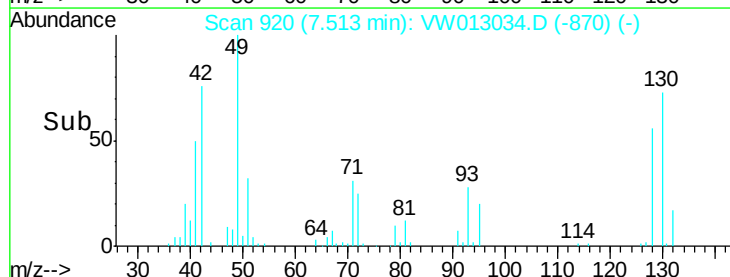
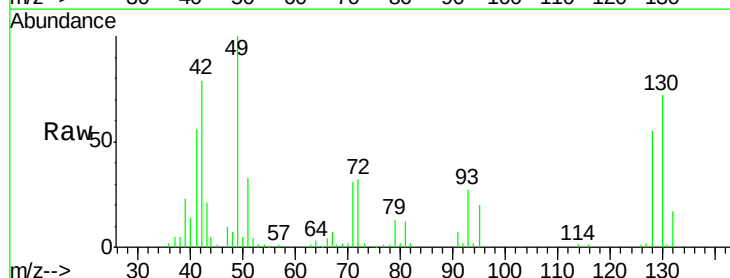
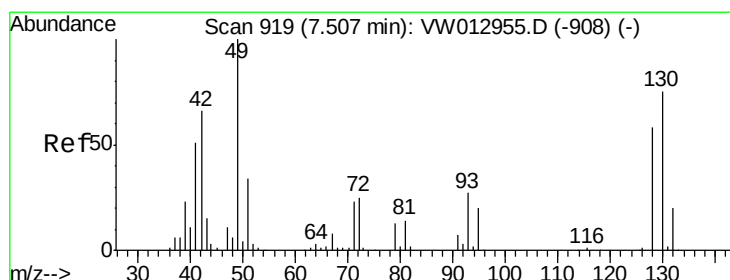
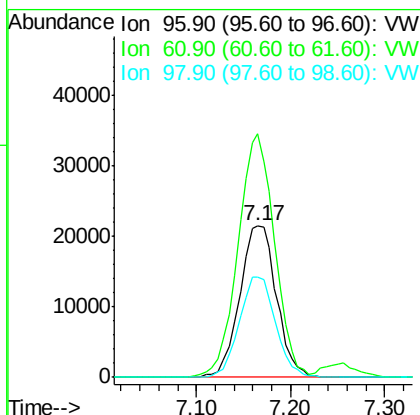
#27
 cis-1,2-Dichloroethene
 Concen: 20.764 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tot Ion	Ratio	Resp	Lower	Upper
96	100	58772		
61	159.6		0.0	315.4
98	65.2		0.0	131.0

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

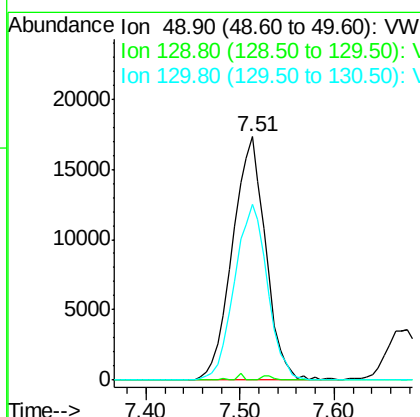
Manual Integrations
 APPROVED

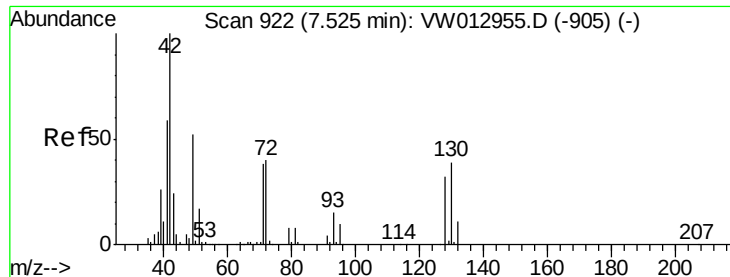
MMDadoda
 9/18/2019 2:00:55 PM



#28
 Bromochloromethane
 Concen: 20.119 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	42505		
129	0.5		0.0	1.4
130	71.7		57.8	86.6





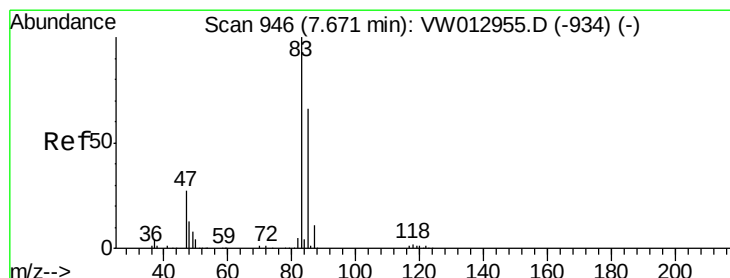
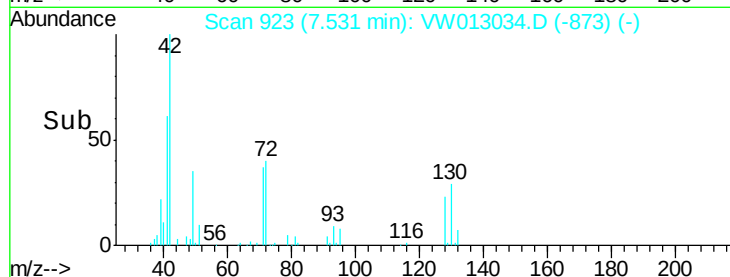
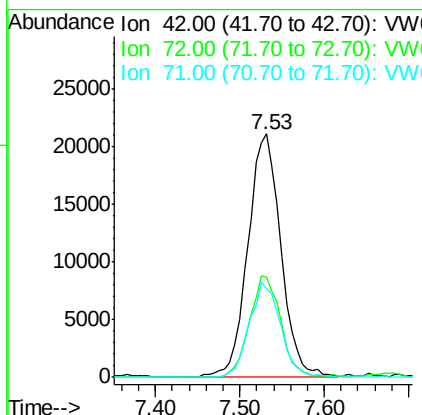
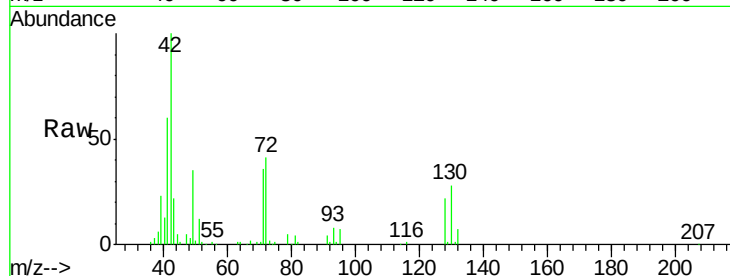
#29
Tetrahydrofuran
Concen: 105.944 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.4	47.0
71	36.4	29.8	44.8

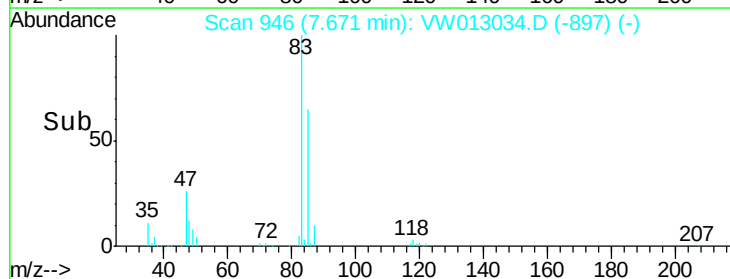
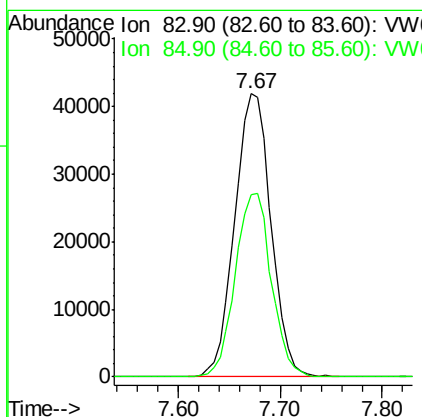
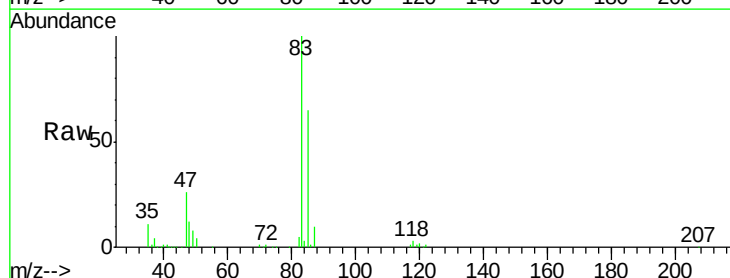
Manual Integrations
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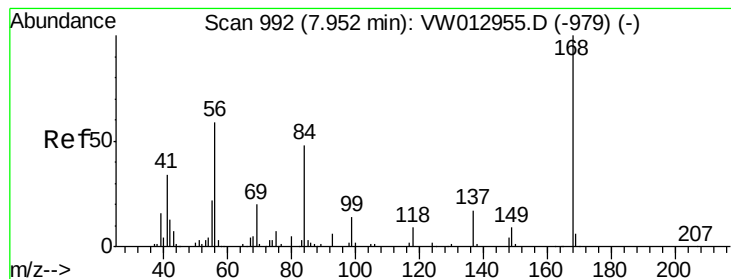
MMDadoda
9/18/2019 2:00:55 PM



#30
Chloroform
Concen: 20.278 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.8	79.2





#31

Cyclohexane

Concen: 22.042 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampled :

VW0916SBSD01

Tot Ion: 56 Resp: 92008

Ion Ratio Lower Upper

56 100

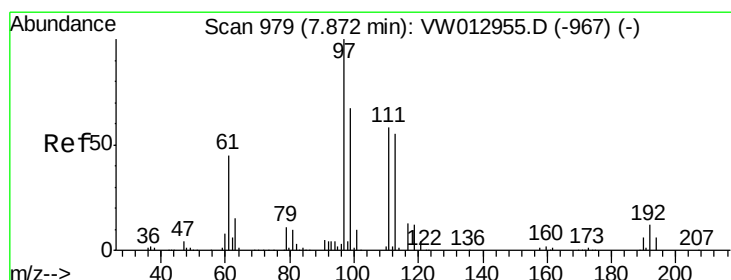
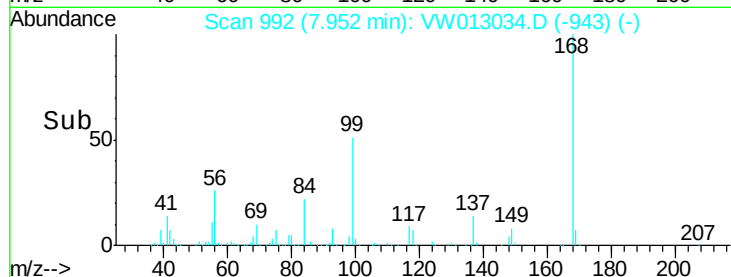
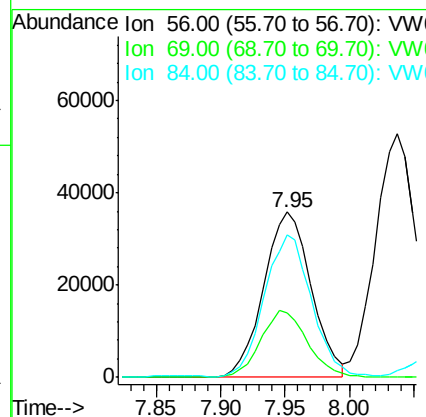
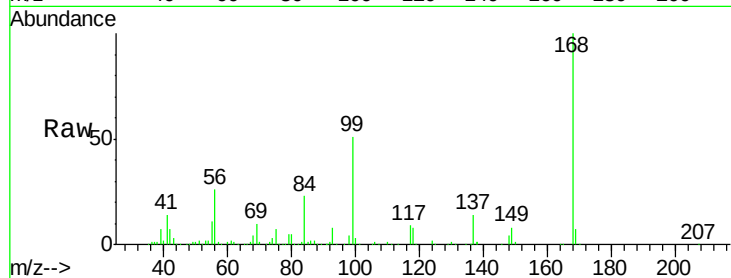
69 38.8 27.0 40.6

84 84.6 66.2 99.2

Manual Integrations
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9/18/2019 2:00:55 PM



#32

1,1,1-Trichloroethane

Concen: 20.053 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

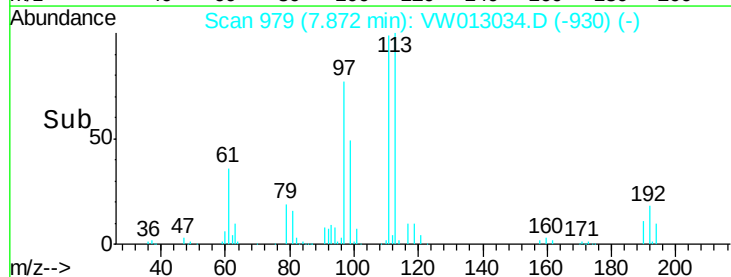
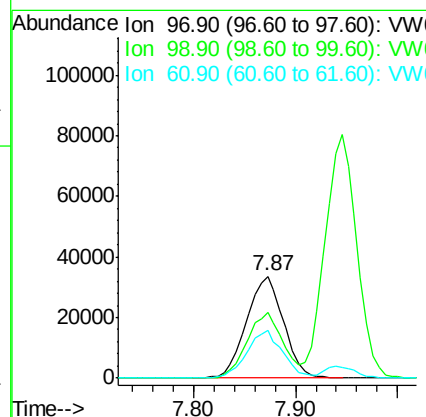
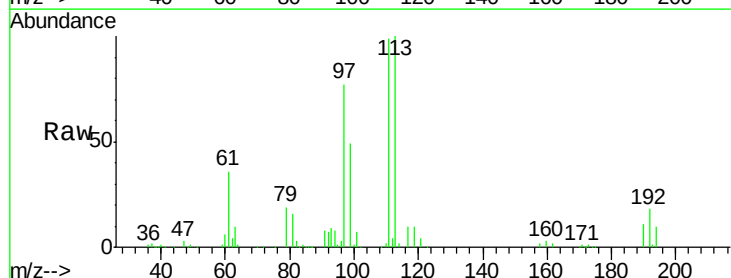
Tgt Ion: 97 Resp: 84222

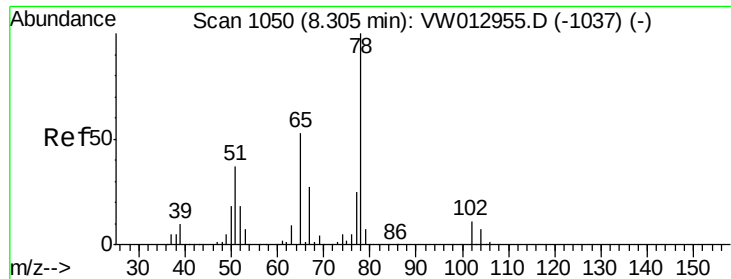
Ion Ratio Lower Upper

97 100

99 62.7 53.0 79.4

61 45.4 36.5 54.7





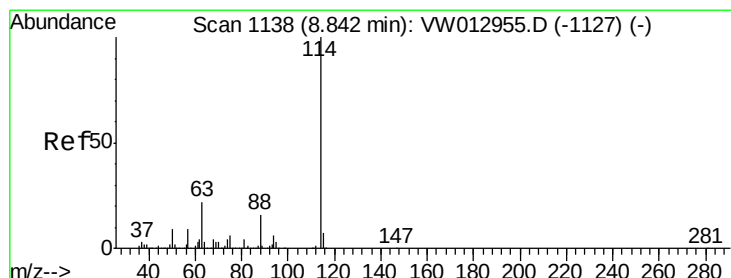
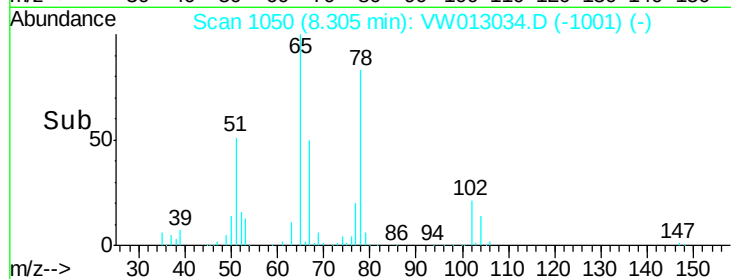
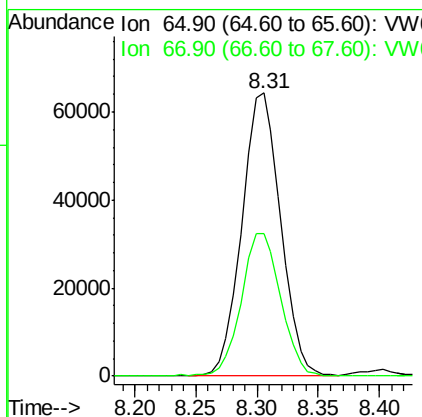
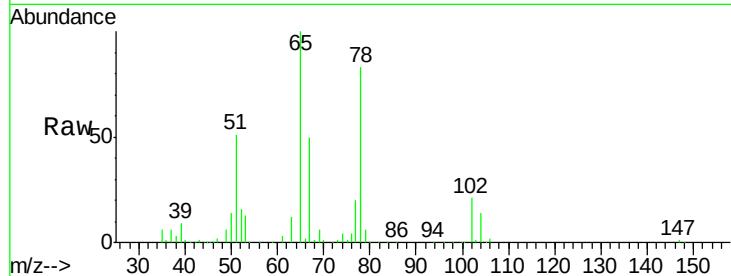
#33
 1,2-Dichloroethane-d4
 Concen: 48.082 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	142009		
67	51.3	0.0	101.2	

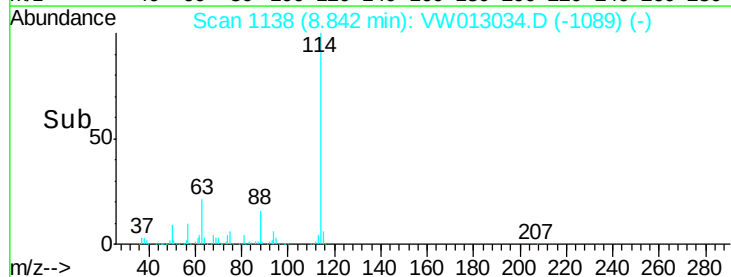
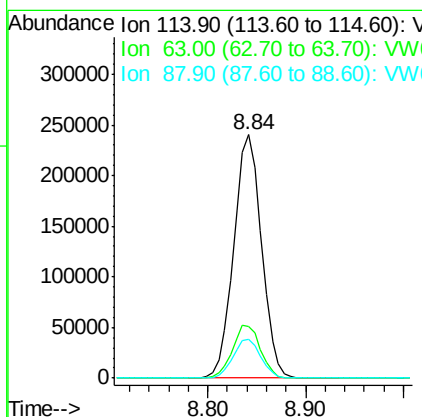
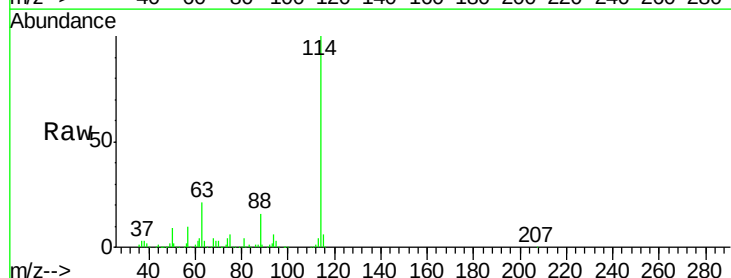
Manual Integrations
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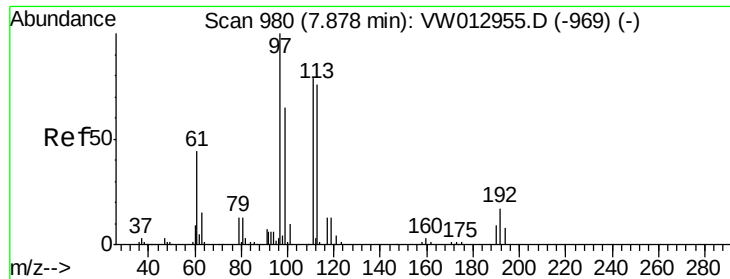
MMDadoda
 9/18/2019 2:00:55 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	472992		
63	21.3	0.0	43.4	
88	16.1	0.0	31.6	





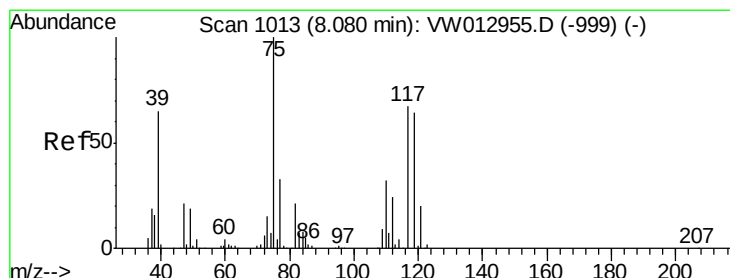
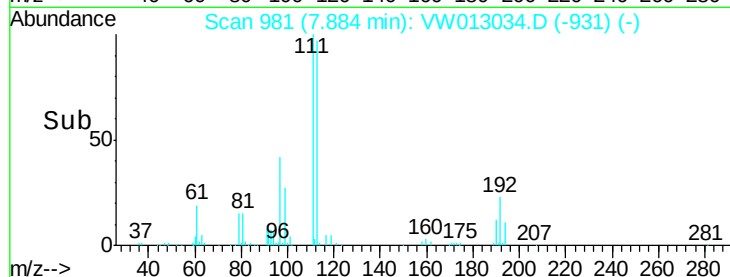
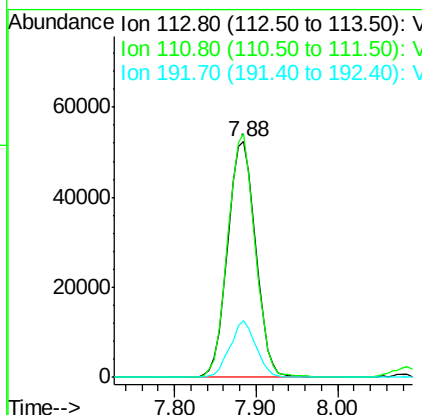
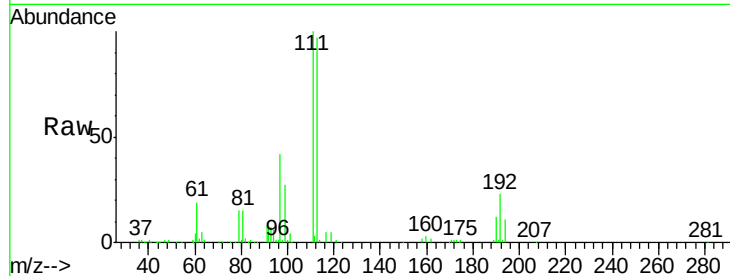
#35
 Dibromofluoromethane
 Concen: 48.358 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampled :
 VW0916SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	124110		
111	100.4	82.8	124.2	
192	22.2	17.8	26.8	

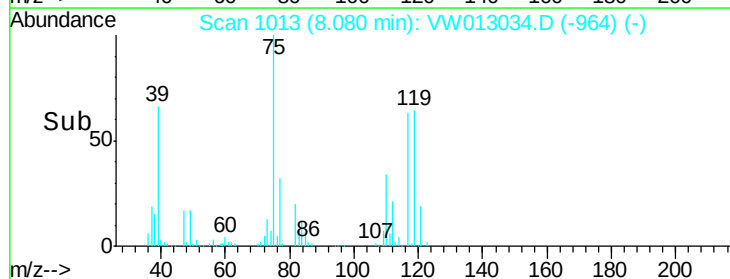
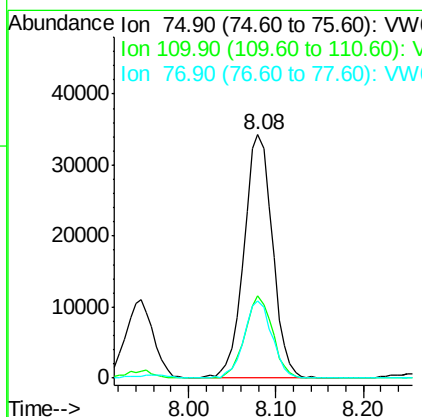
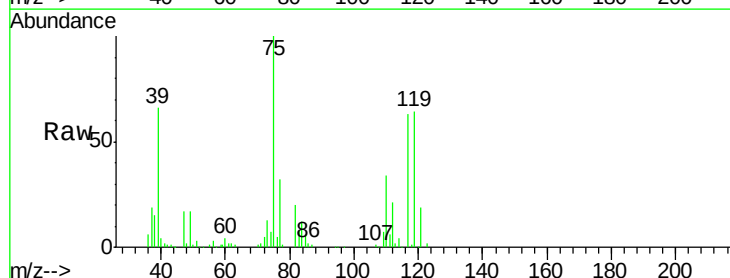
Manual Integrations
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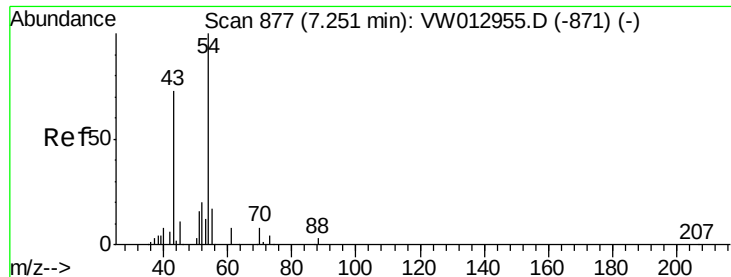
MMDadoda
 9/18/2019 2:00:55 PM



#36
 1,1-Dichloropropene
 Concen: 20.532 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	77605		
110	32.6	16.4	49.1	
77	31.1	25.1	37.7	





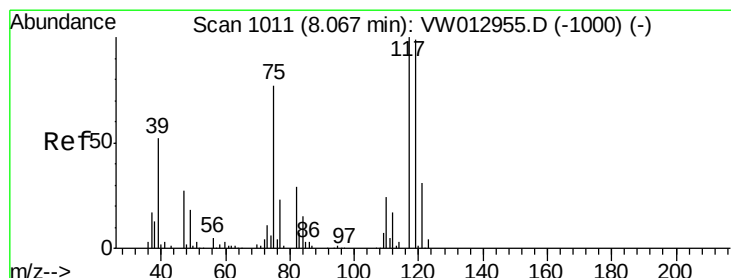
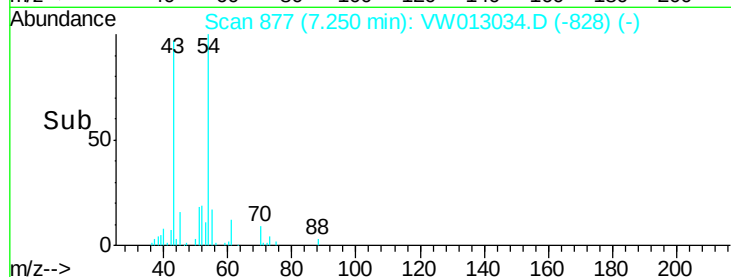
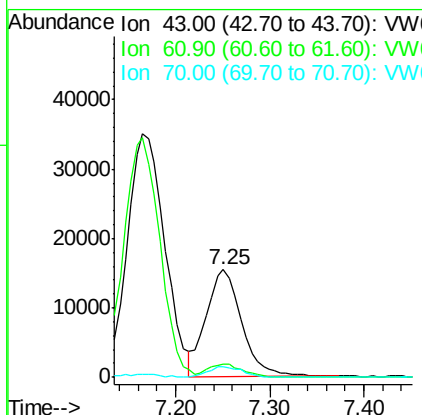
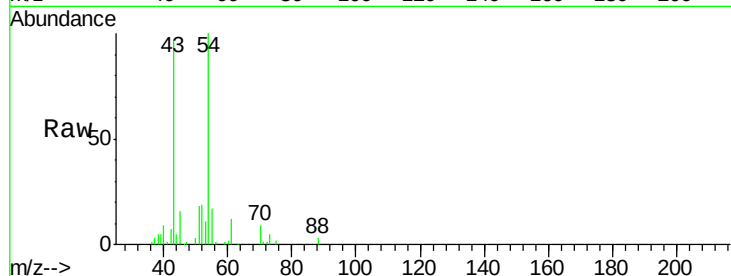
#37
Ethyl Acetate
Concen: 20.131 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	12.2		9.6	14.4
70	9.9		7.6	11.4

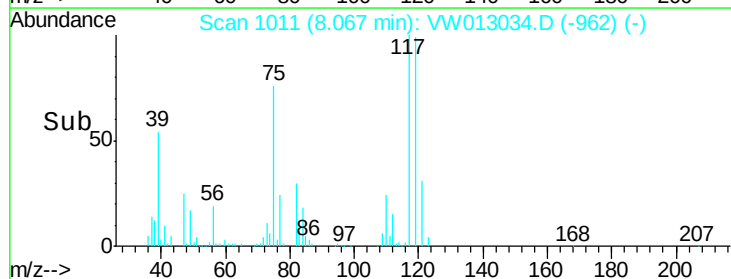
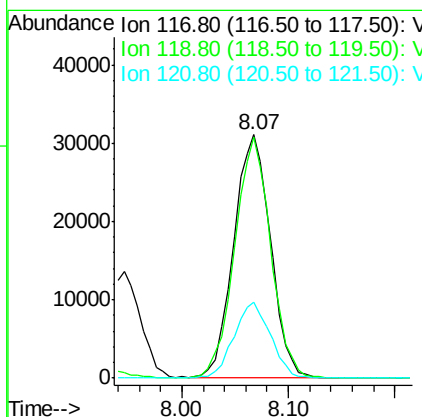
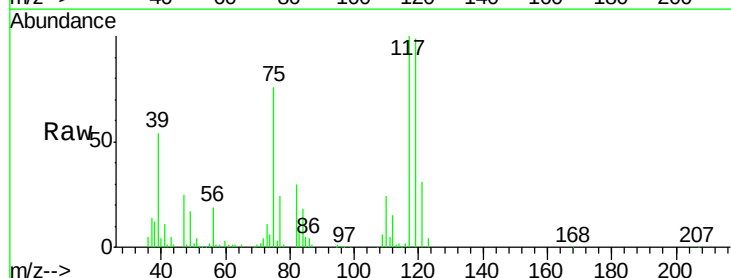
Manual Integrations
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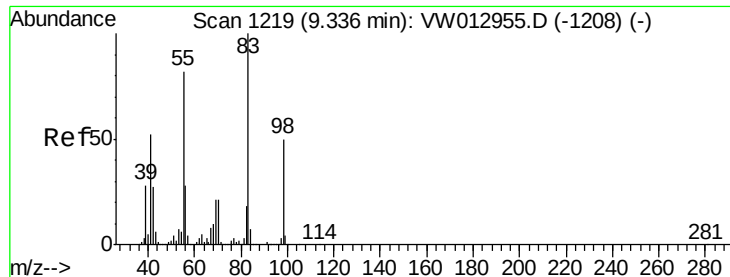
MMDadoda
9/18/2019 2:00:55 PM



#38
Carbon Tetrachloride
Concen: 19.493 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	98.9		79.4	119.0
121	31.1		24.6	36.8





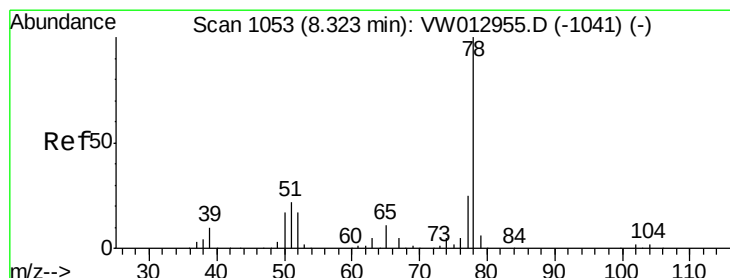
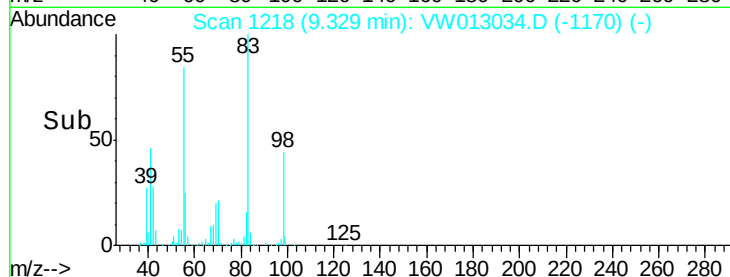
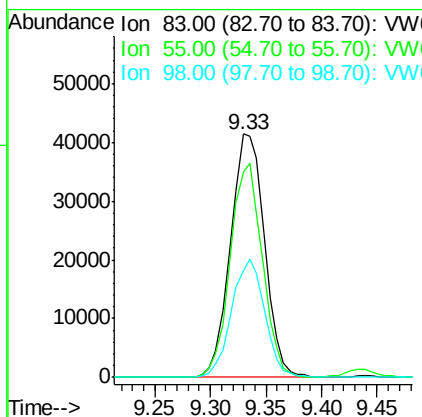
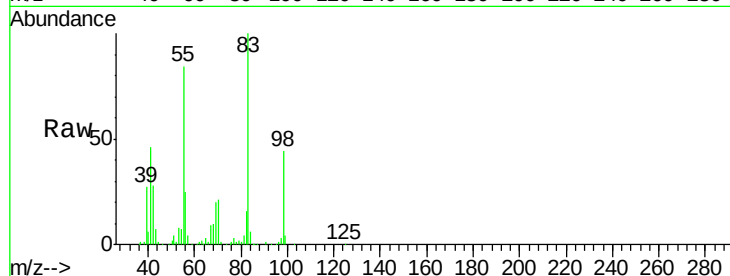
#39
Methylvlcyclohexane
Concen: 21.187 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	83	Resp	87747
Ion	Ratio	Lower	Upper
83	100		
55	83.9	65.9	98.9
98	43.8	39.6	59.4

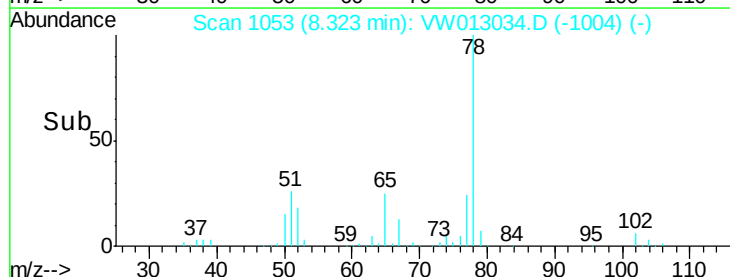
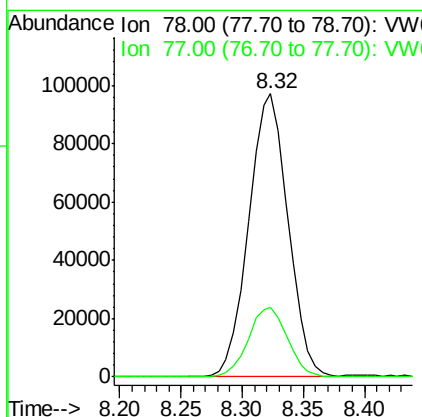
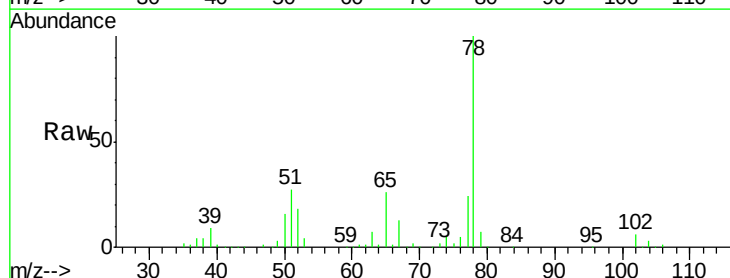
Manual Integrations
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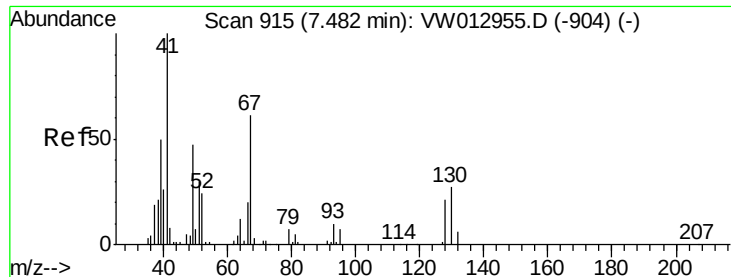
MMDadoda
9/18/2019 2:00:55 PM



#40
Benzene
Concen: 20.554 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	78	Resp	216870
Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.6	29.4





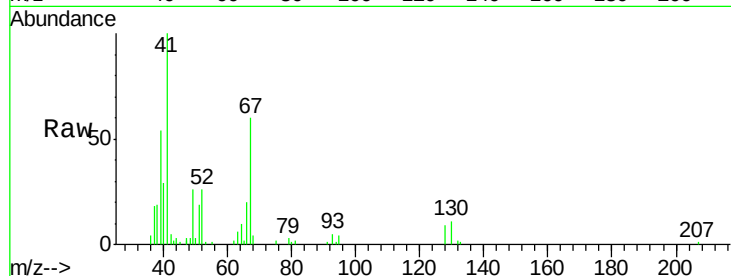
#41
Methacrylonitrile
Concen: 18.149 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

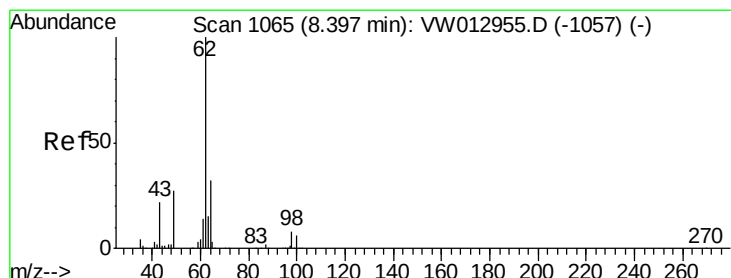
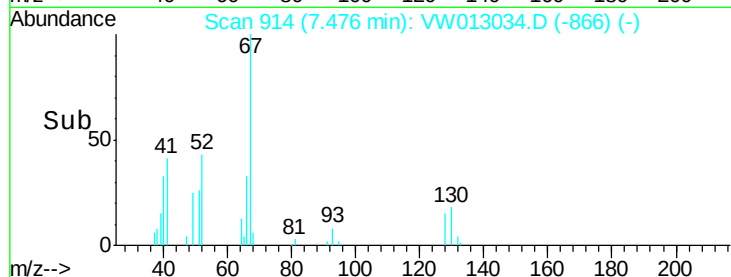
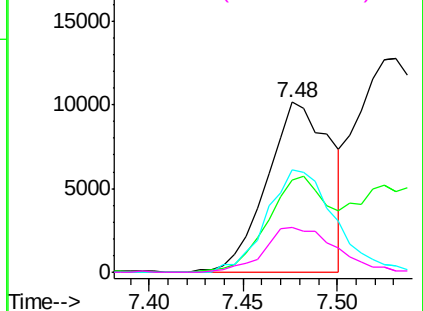
Tot Ion	Ion	Ratio	Lower	Upper
23977	41	100		
	39	54.1	48.2	72.4
	67	64.3	47.5	71.3
	52	29.6	21.0	31.4

Manual Integrations
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9/18/2019 2:00:55 PM

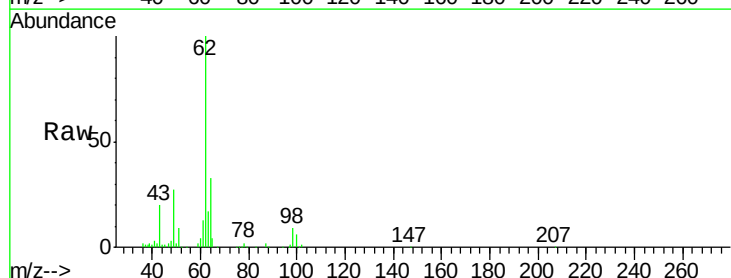


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

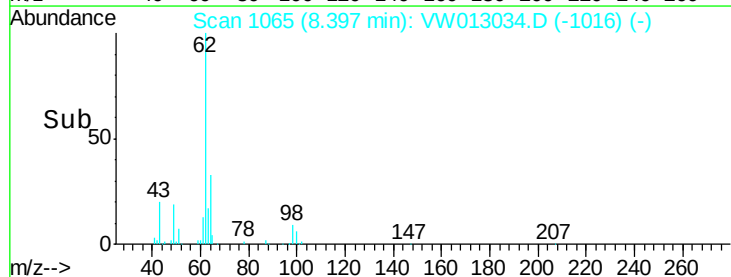
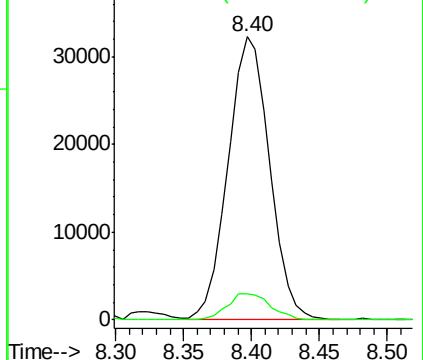


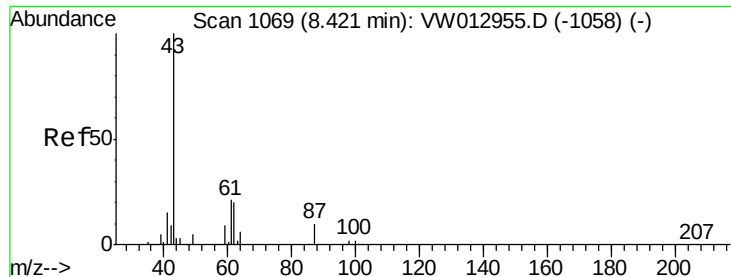
#42
1,2-Dichloroethane
Concen: 19.309 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ion	Ratio	Lower	Upper
68296	62	100		
	98	9.8	0.0	16.8



Abundance Ion 61.90 (61.60 to 62.60): VW
Ion 97.90 (97.60 to 98.60): VW





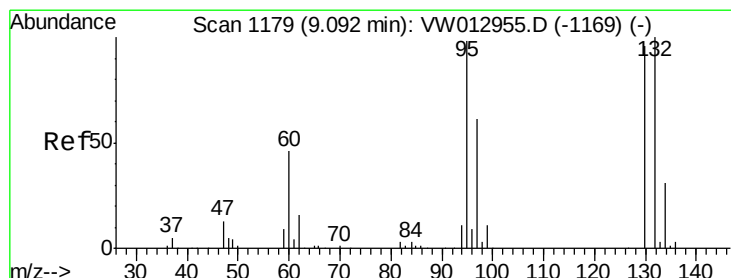
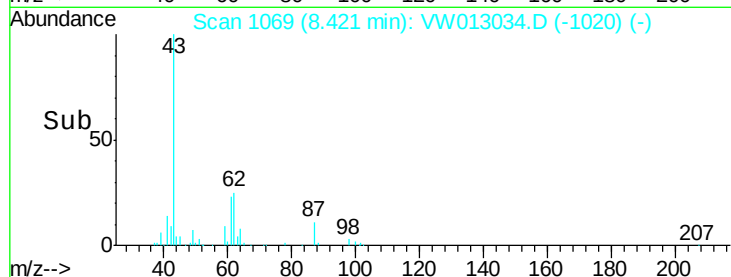
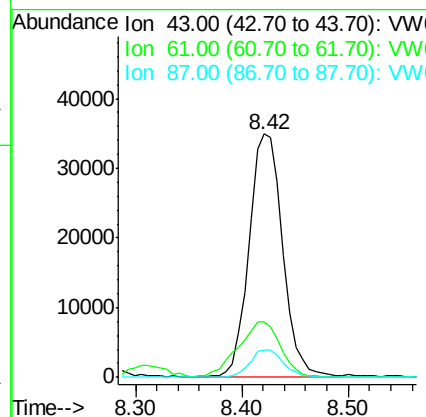
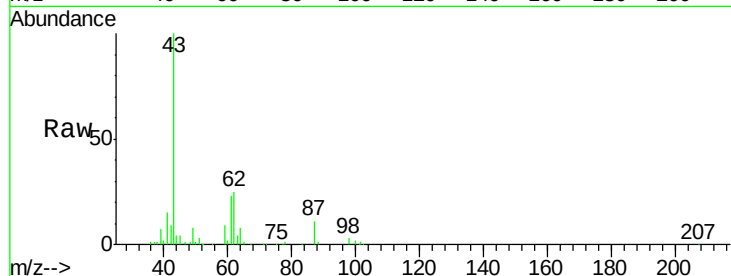
#43
Isopropyl Acetate
Concen: 19.992 ug/l
RT: 8.42 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.2	22.7	34.1
87	11.3	9.4	14.2

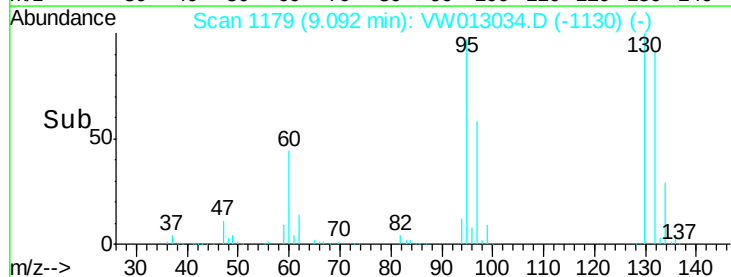
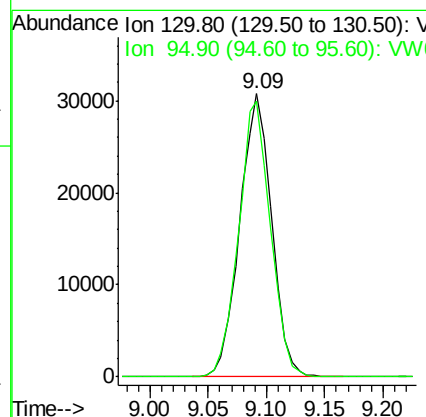
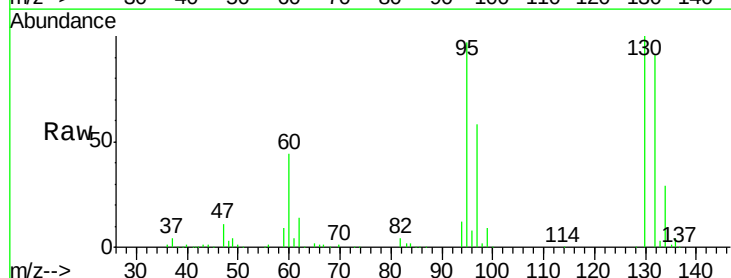
Manual Integrations
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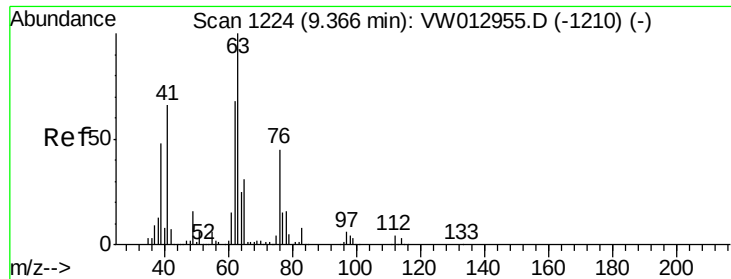
MMDadoda
9/18/2019 2:00:55 PM



#44
Trichloroethene
Concen: 20.258 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	204.4





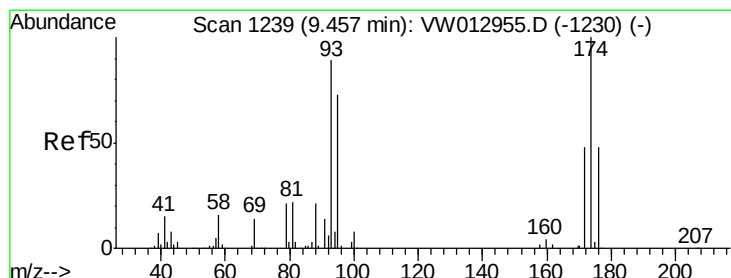
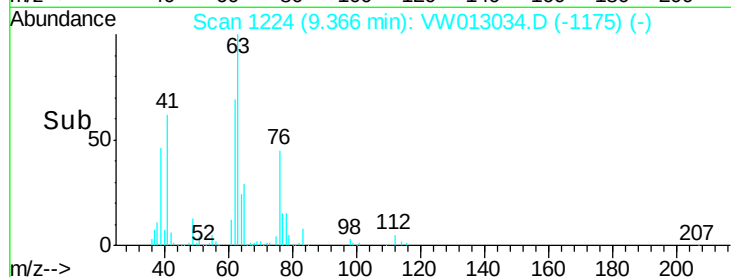
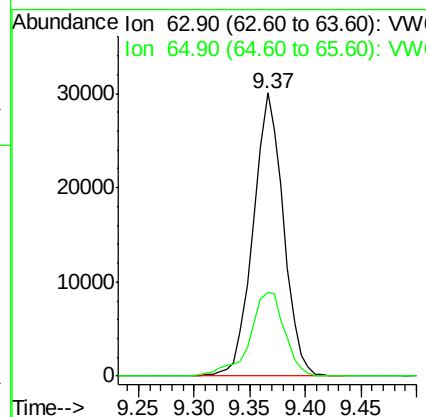
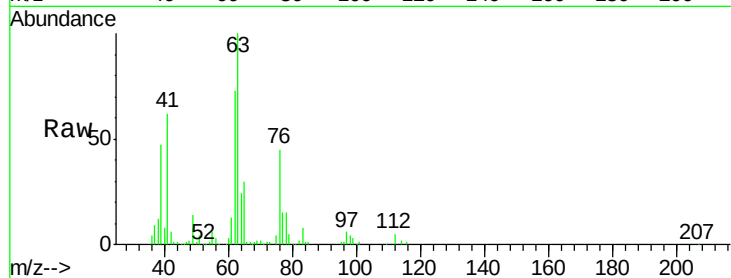
#45
 1,2-Dichloropropane
 Concen: 20.308 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

Tot Ion: 63 Resp: 56930
 Ion Ratio Lower Upper
 63 100
 65 29.6 24.6 37.0

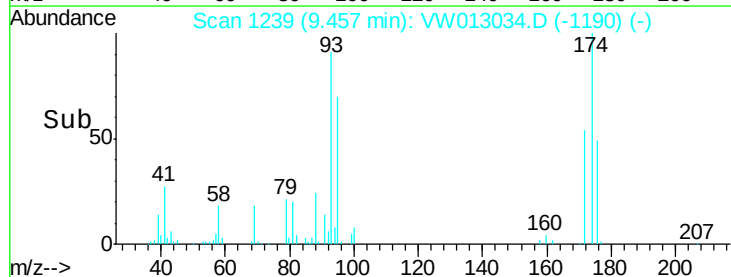
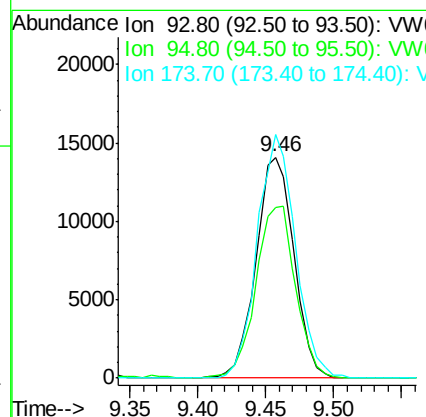
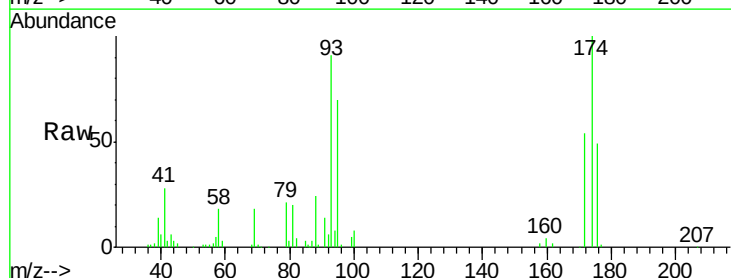
Manual Integrations
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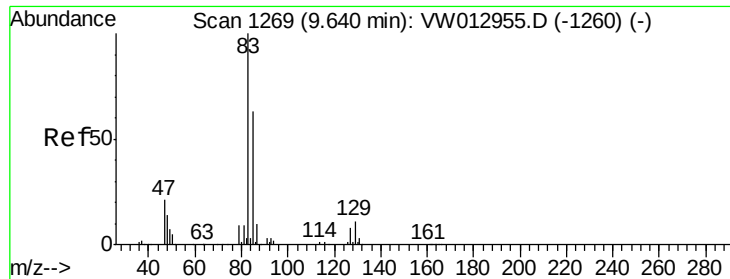
MMDadoda
 9/18/2019 2:00:55 PM



#46
 Dibromomethane
 Concen: 20.499 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion: 93 Resp: 27532
 Ion Ratio Lower Upper
 93 100
 95 81.5 67.0 100.4
 174 111.0 90.5 135.7





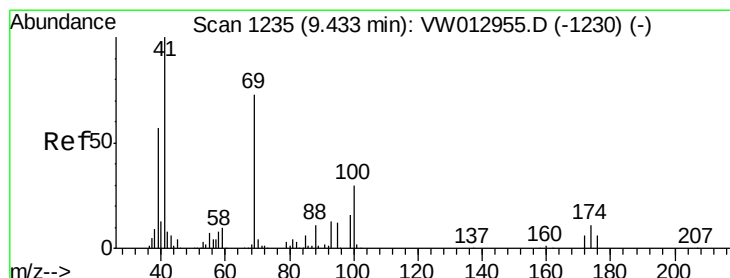
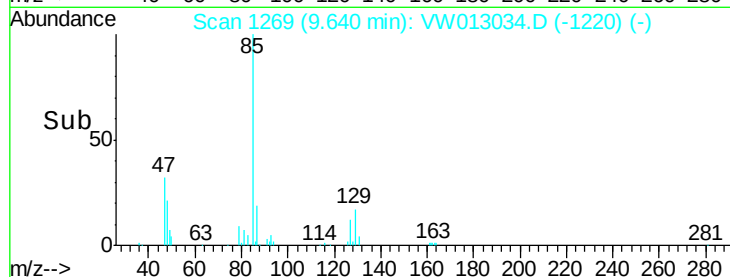
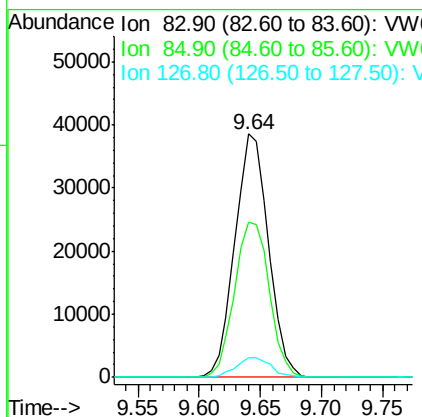
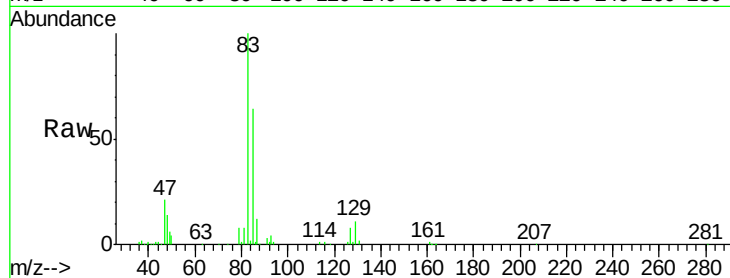
#47
 Bromodichloromethane
 Concen: 19.499 ug/l
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBSD01

Tot Ion	83	Resp	73459
Ion Ratio	100	Lower	Upper
83	100		
85	63.9	50.6	75.8
127	7.9	6.7	10.1

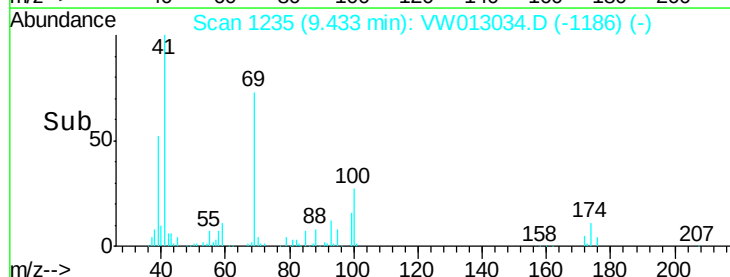
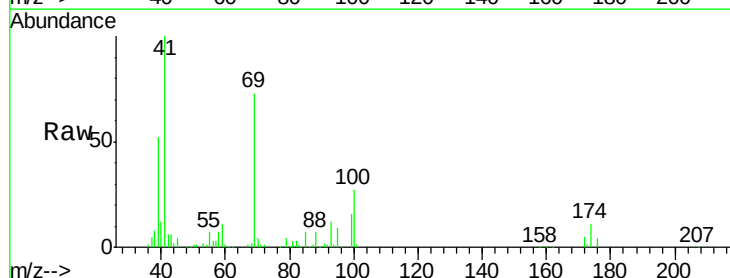
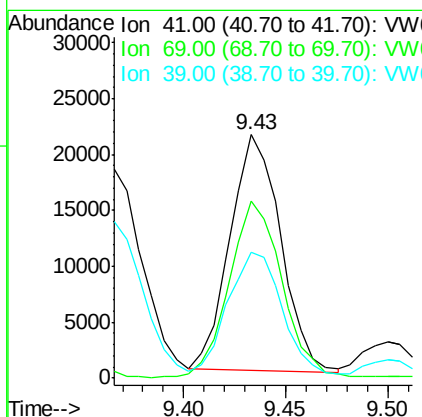
Manual Integrations
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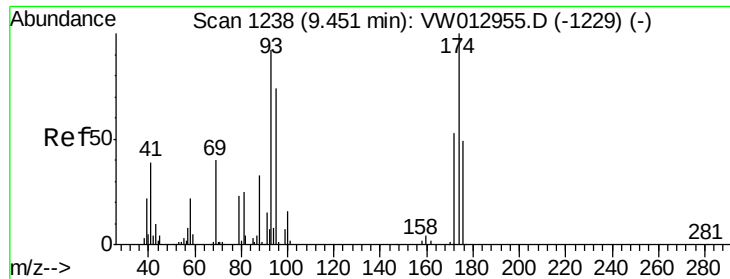
MMDadoda
 9/18/2019 2:00:55 PM



#48
 Methyl methacrylate
 Concen: 20.119 ug/l
 RT: 9.43 min Scan# 1235
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	41	Resp	36370
Ion Ratio	100	Lower	Upper
41	100		
69	78.9	62.8	94.2
39	58.2	48.5	72.7





#49

1,4-Dioxane

Concen: 400.577 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

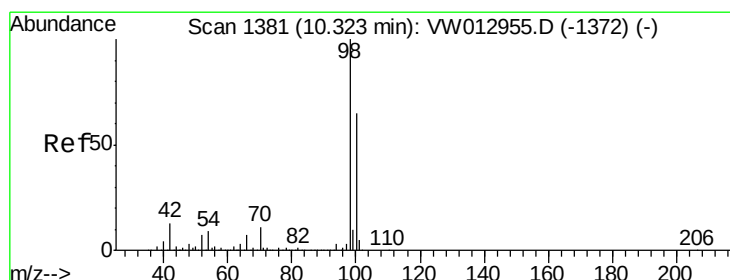
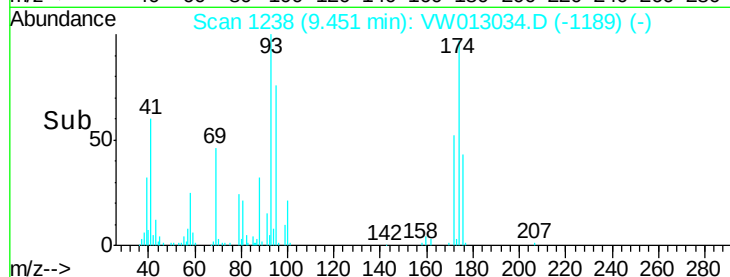
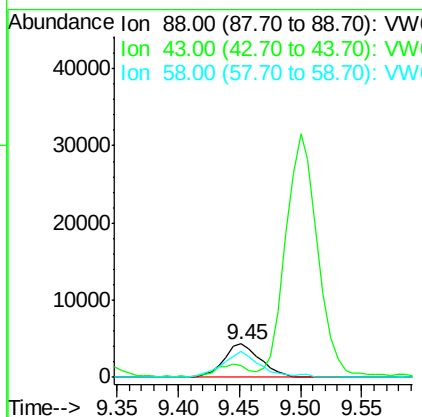
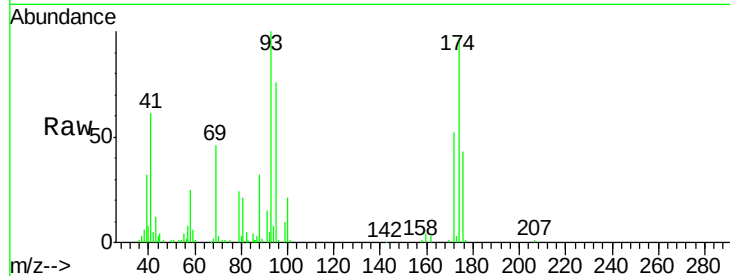
ClientSampleId :

VW0916SBS01

Tot Ion:	88	Resp:	9015
Ion	Ratio	Lower	Upper
88	100		
43	32.4	31.3	46.9
58	82.6	60.2	90.2

Manual Integrations
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9/18/2019 2:00:55 PM



#50

Toluene-d8

Concen: 49.540 ug/l

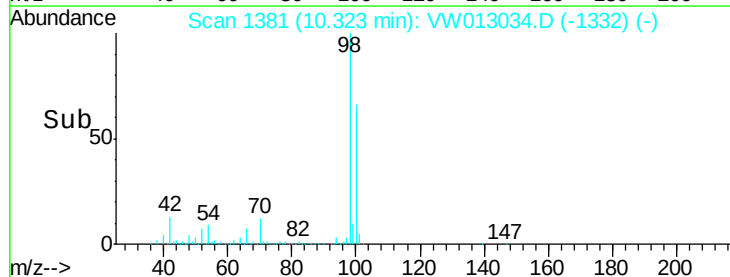
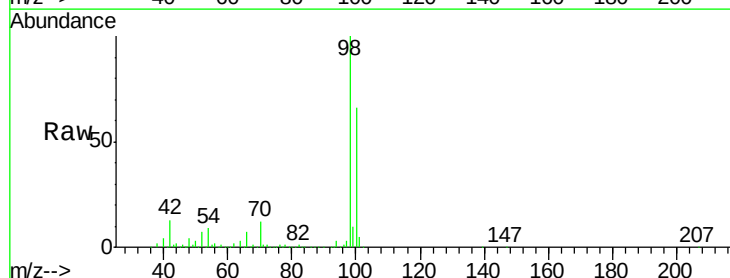
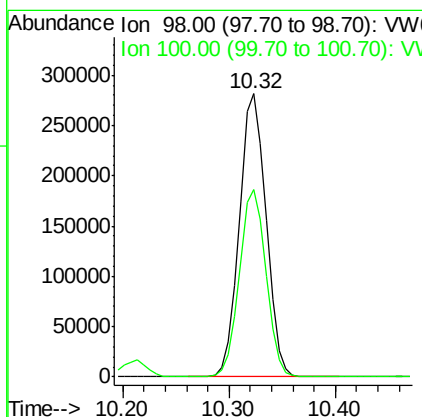
RT: 10.32 min Scan# 1381

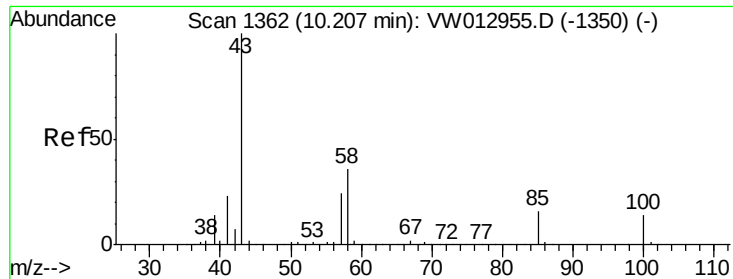
Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Tgt Ion:	98	Resp:	497529
Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 100.971 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBSD01

Tot Ion: 43 Resp: 200797

Ion Ratio Lower Upper

43 100

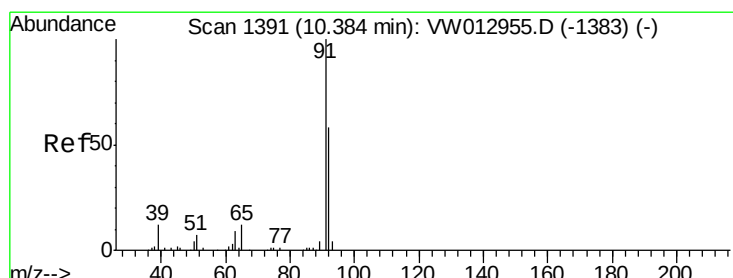
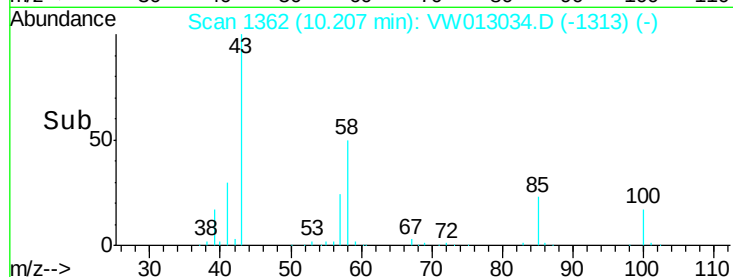
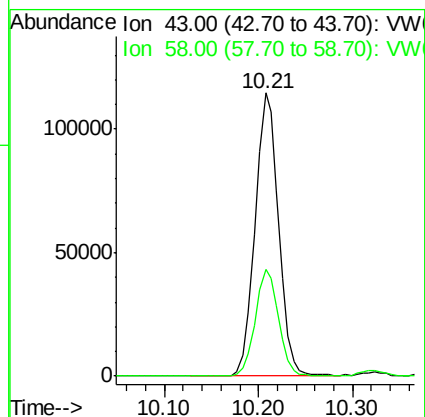
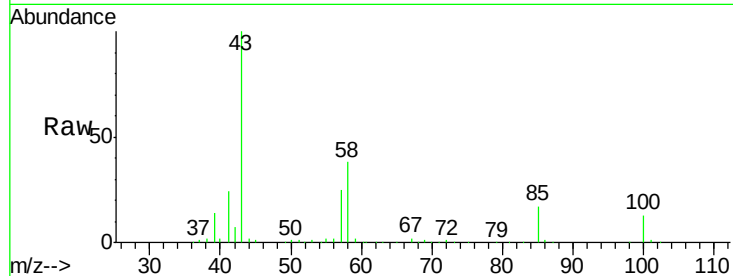
58 37.4 29.5 44.3

Manual Integrations

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#52

Toluene

Concen: 20.366 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013034.D

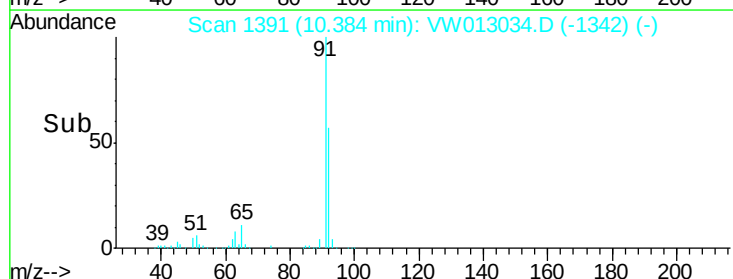
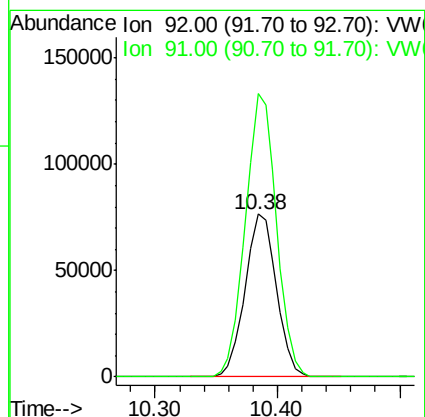
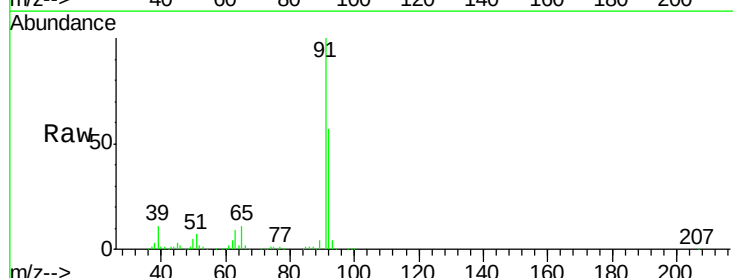
Acq: 16 Sep 2019 12:06

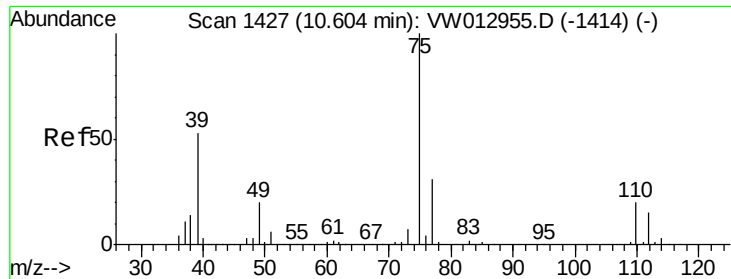
Tgt Ion: 92 Resp: 136547

Ion Ratio Lower Upper

92 100

91 172.2 137.5 206.3





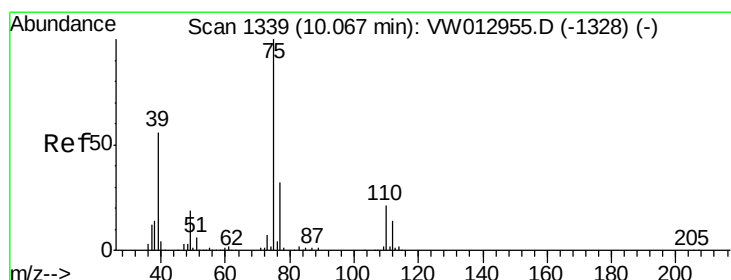
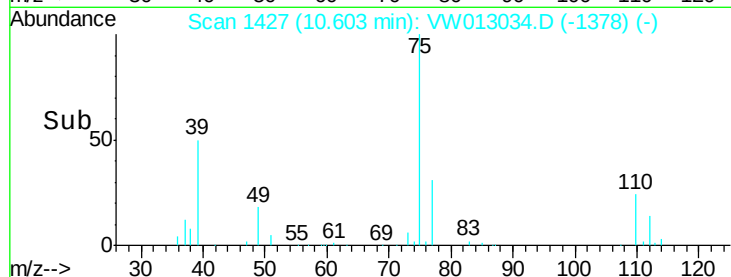
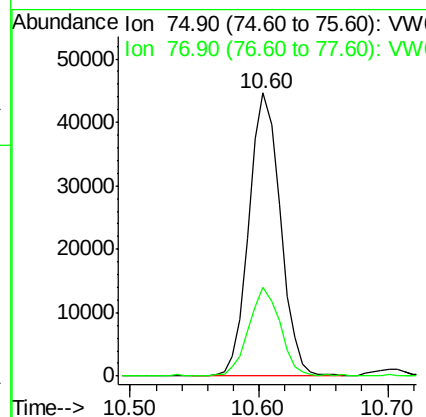
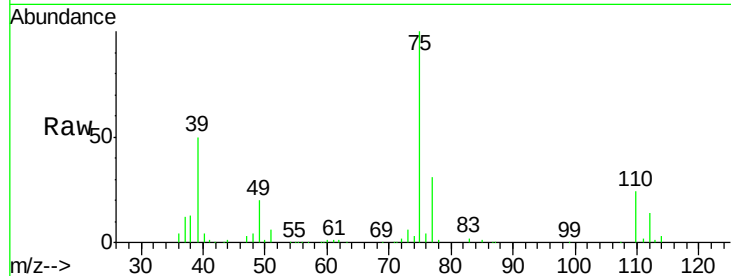
#53
t-1,3-Dichloropropene
Concen: 19.854 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion: 75 Resp: 75223
Ion Ratio Lower Upper
75 100
77 31.2 24.6 37.0

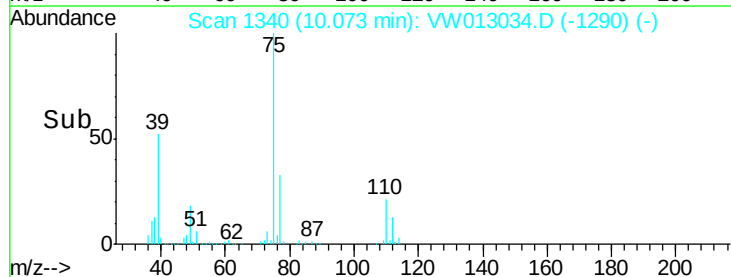
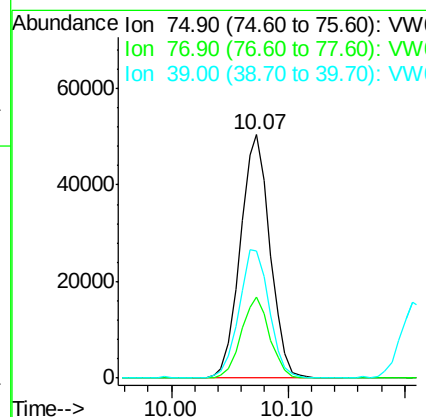
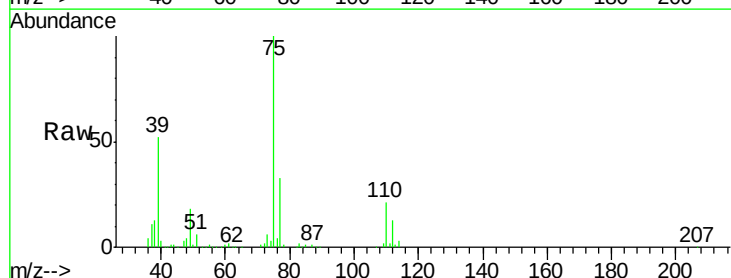
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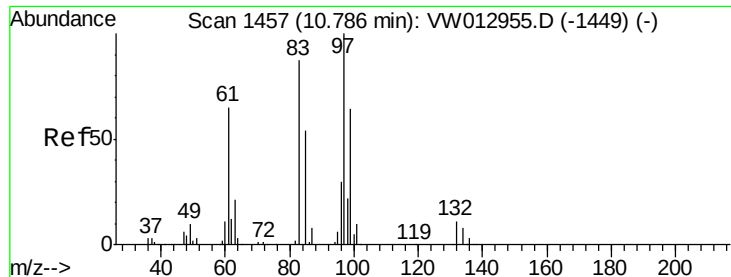
MMDadoda
9/18/2019 2:00:55 PM



#54
cis-1,3-Dichloropropene
Concen: 20.665 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 75 Resp: 89585
Ion Ratio Lower Upper
75 100
77 33.2 25.5 38.3
39 52.3 45.0 67.6





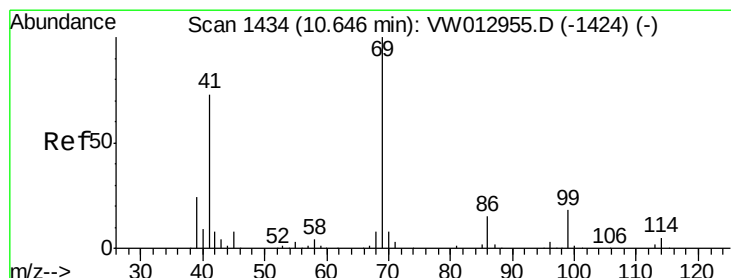
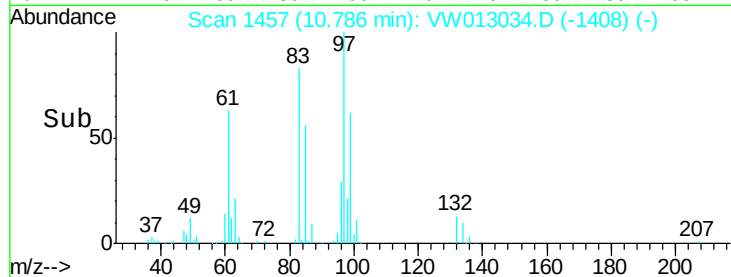
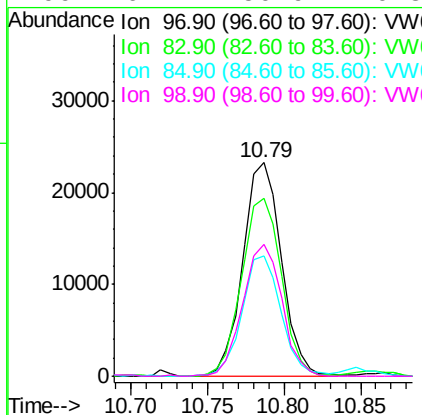
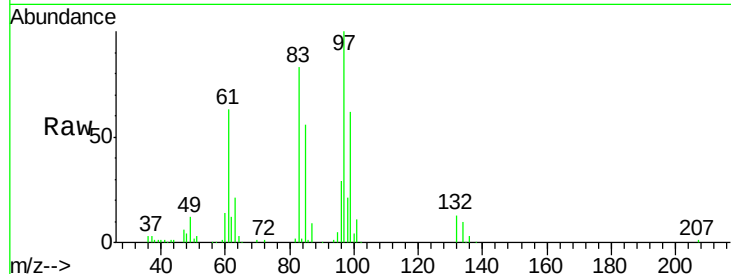
#55
 1,1,2-Trichloroethane
 Concen: 19.950 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

Tot Ion	97	Resp	40818
Ion	Ratio	Lower	Upper
97	100		
83	83.4	69.4	104.0
85	56.1	43.3	64.9
99	61.7	50.9	76.3

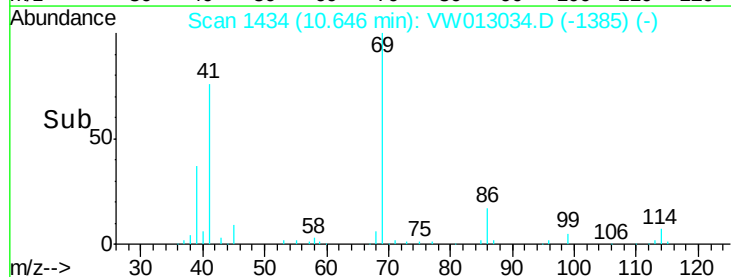
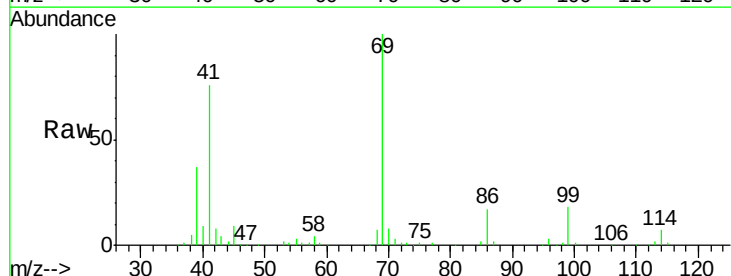
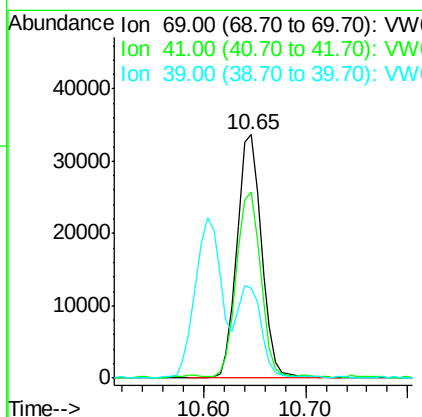
Manual Integrations
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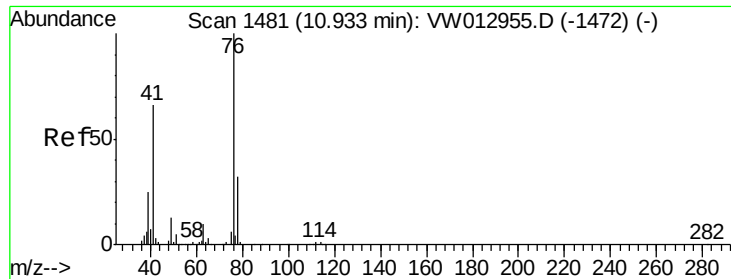
MMDadoda
 9/18/2019 2:00:55 PM



#56
 Ethyl methacrylate
 Concen: 20.427 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	69	Resp	56256
Ion	Ratio	Lower	Upper
69	100		
41	73.4	60.8	91.2
39	34.4	29.4	44.0





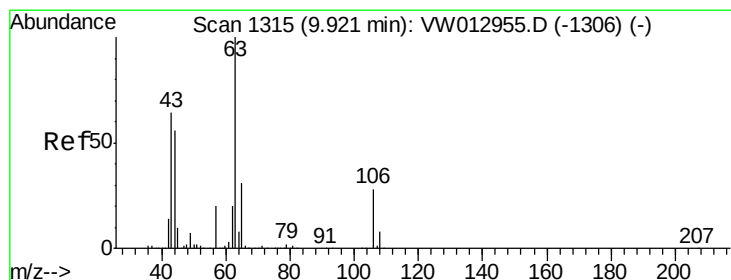
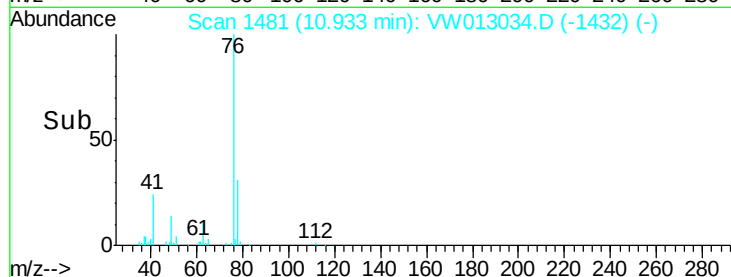
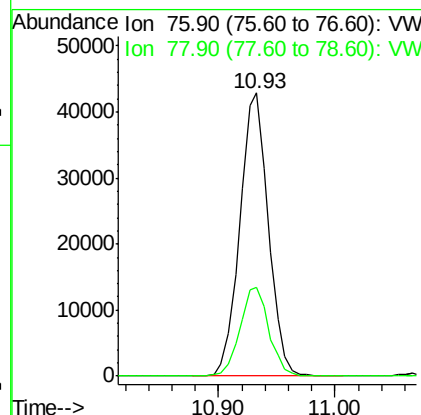
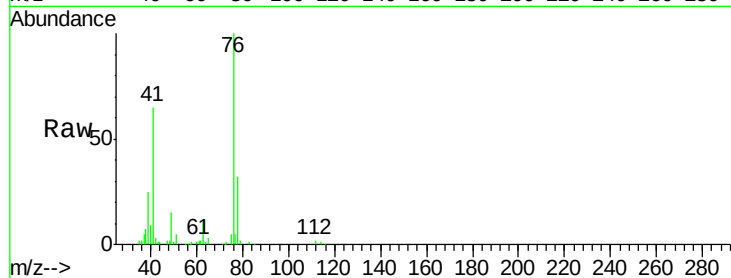
#57
 1,3-Dichloropropane
 Concen: 20.146 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.6	38.4

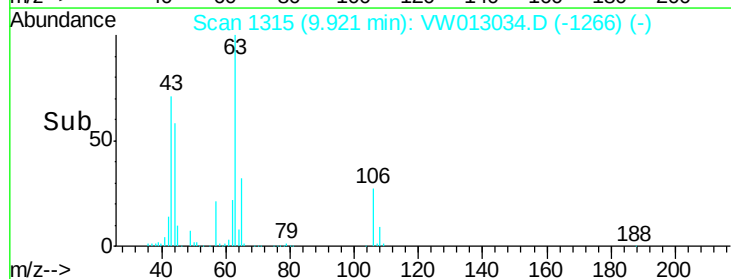
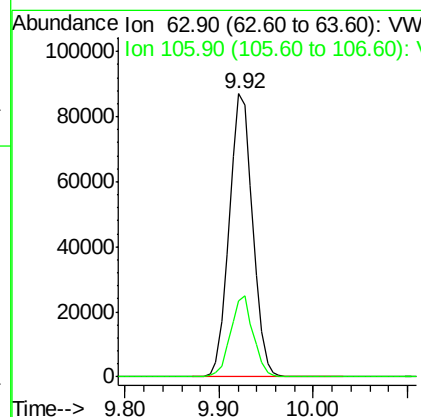
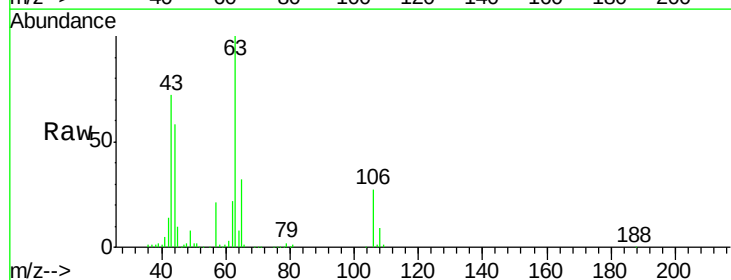
Manual Integrations
 APPROVED

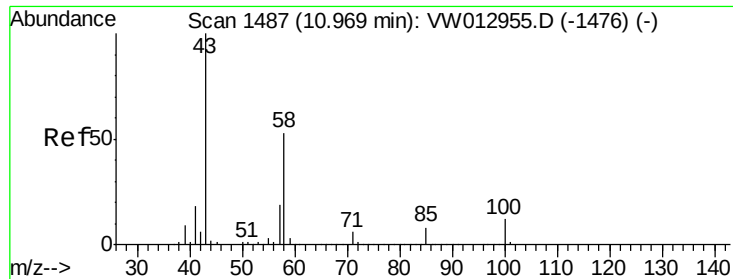
MMDadoda
 9/18/2019 2:00:55 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 101.687 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	22.2	33.2





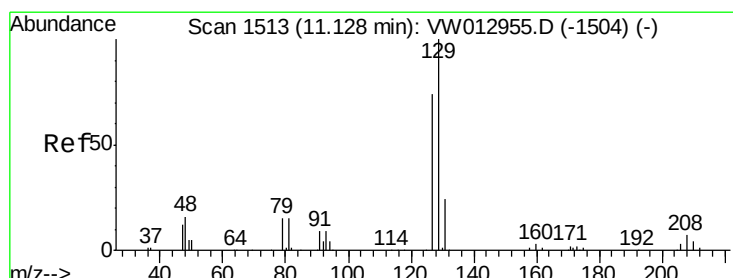
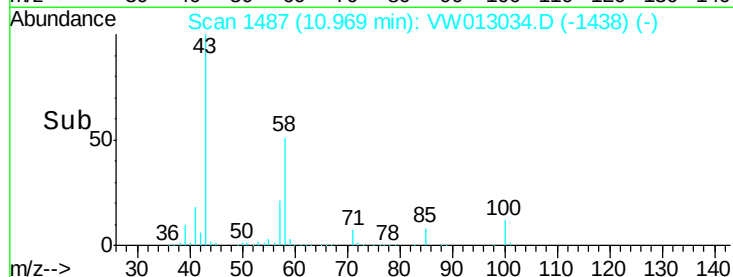
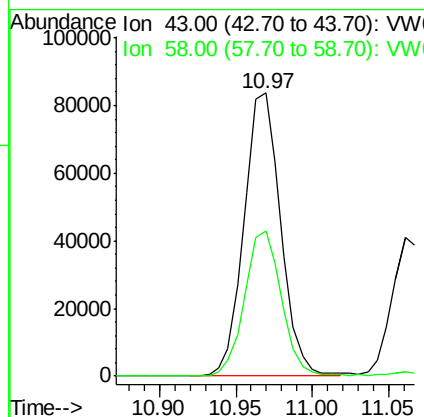
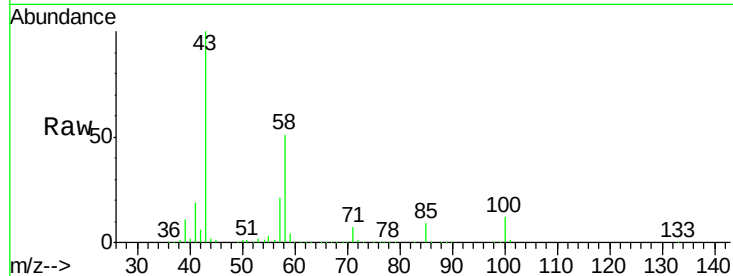
#59
2-Hexanone
Concen: 100.783 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion: 43 Resp: 139557
Ion Ratio Lower Upper
43 100
58 51.5 25.8 77.3

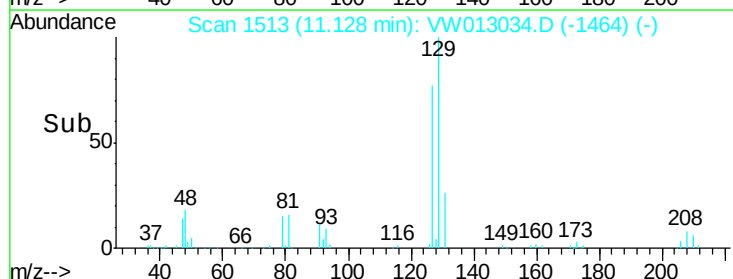
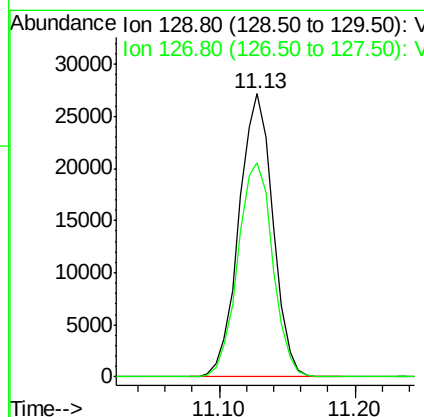
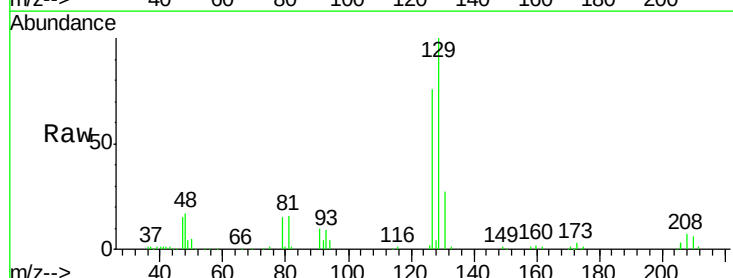
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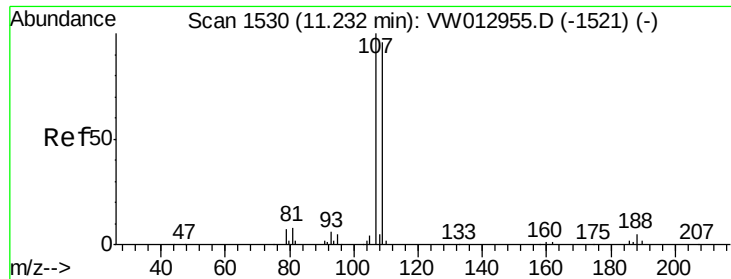
MMDadoda
9/18/2019 2:00:55 PM



#60
Dibromochloromethane
Concen: 19.140 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion: 129 Resp: 47346
Ion Ratio Lower Upper
129 100
127 77.6 37.4 112.2





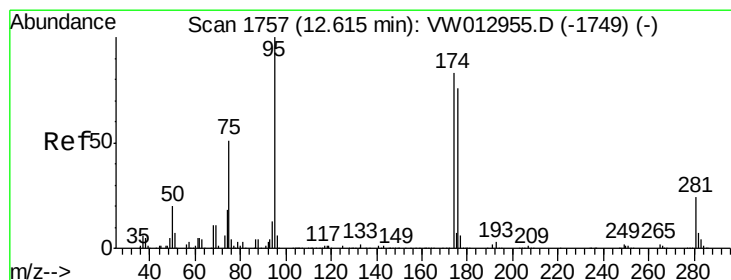
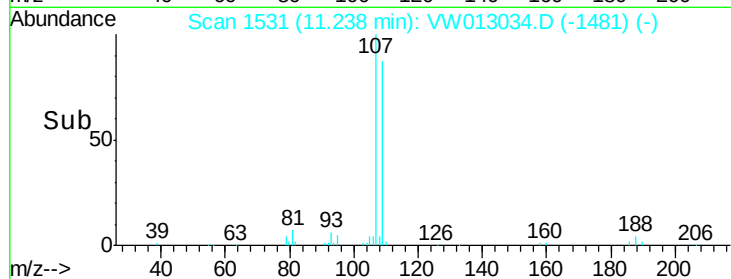
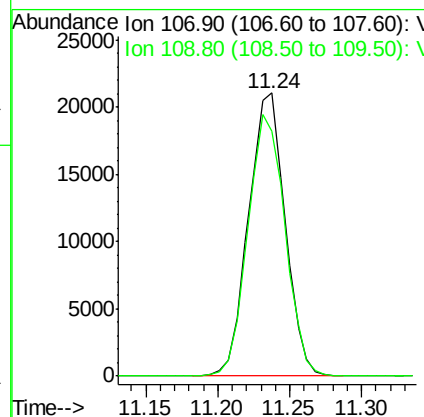
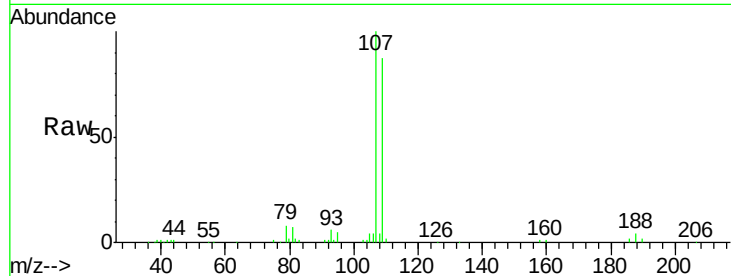
#61
 1,2-Dibromoethane
 Concen: 19.822 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
107	107	100	36997		
109	109	94.0	75.0	112.6	

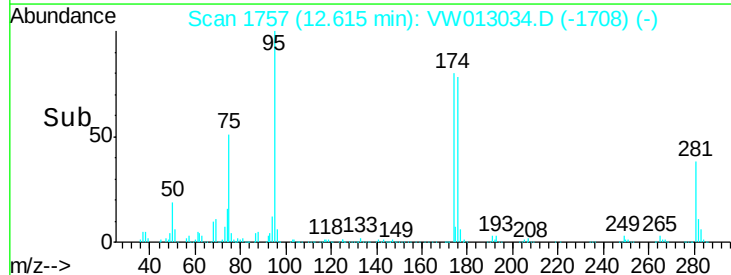
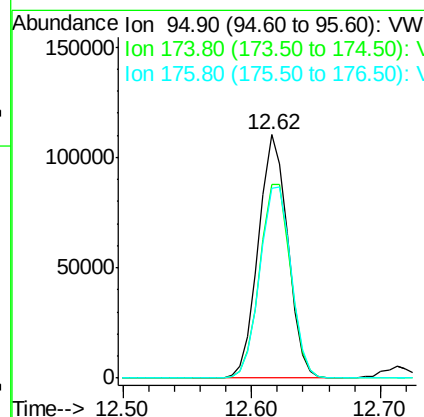
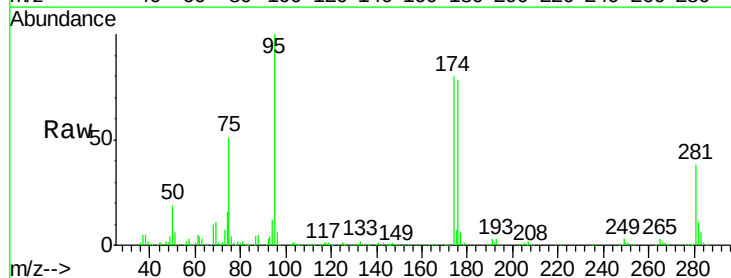
Manual Integrations
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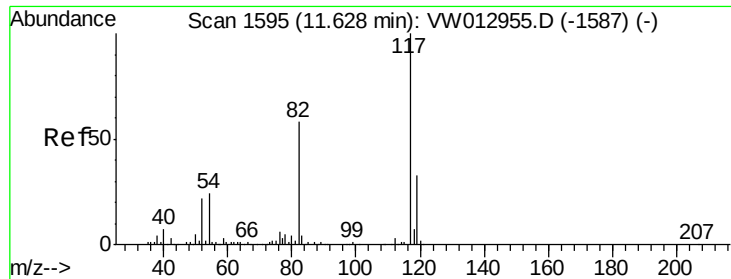
MMDadoda
 9/18/2019 2:00:55 PM



#62
 4-Bromofluorobenzene
 Concen: 48.179 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
95	95	100	173987		
174	174	83.6	0.0	170.4	
176	176	83.5	0.0	164.6	





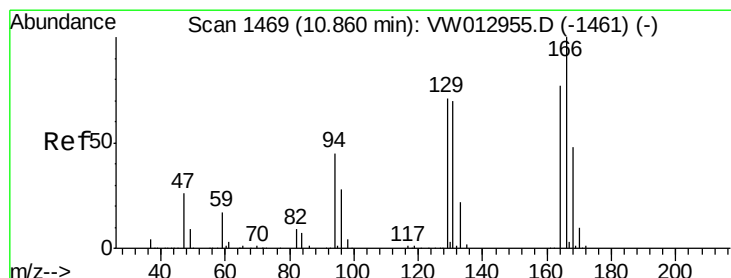
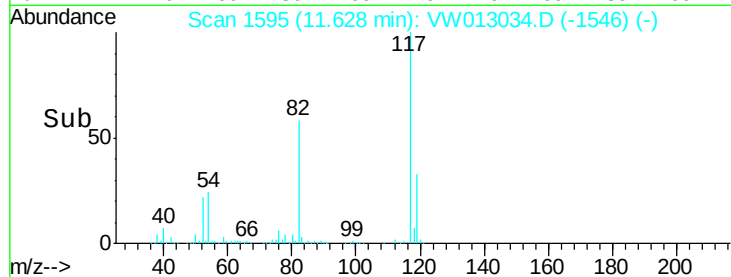
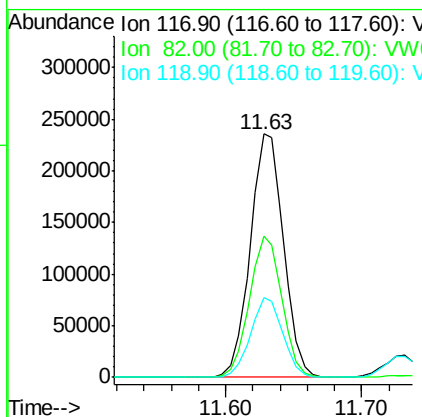
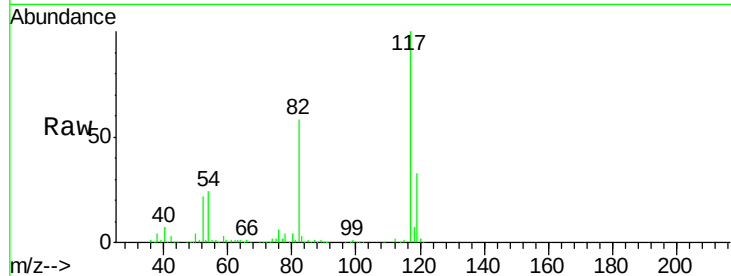
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	403817		
82	58.2	46.3	69.5	
119	32.9	26.2	39.4	

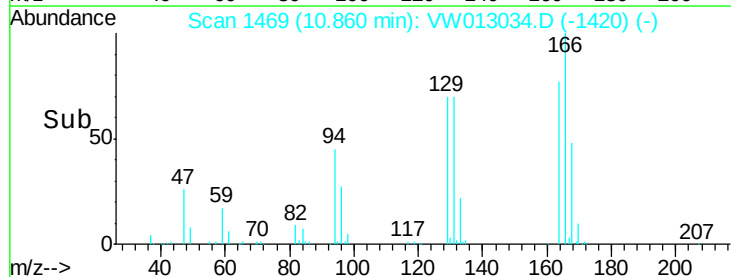
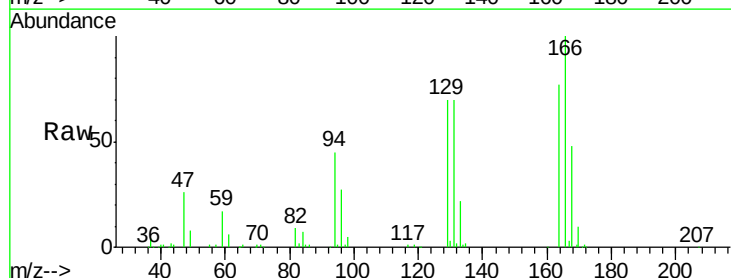
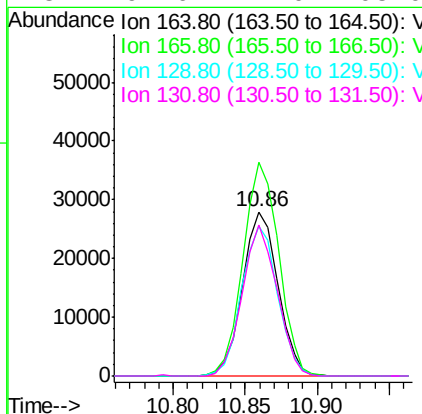
Manual Integrations
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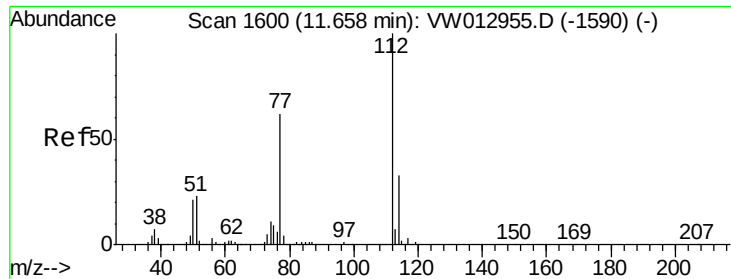
MMDadoda
9/18/2019 2:00:55 PM



#64
Tetrachloroethene
Concen: 19.872 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	47739		
166	130.0	103.3	154.9	
129	91.1	73.8	110.8	
131	91.6	72.0	108.0	





#65

Chlorobenzene

Concen: 20.165 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBSD01

Tot Ion:112 Resp: 145047

Ion Ratio Lower Upper

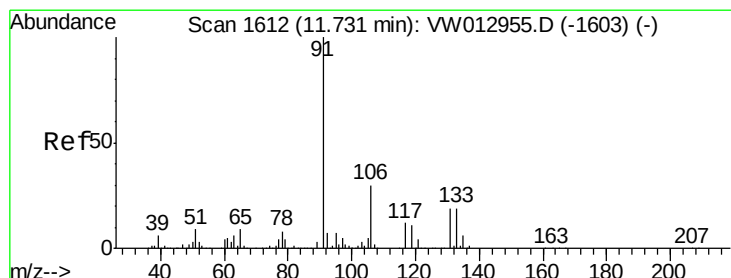
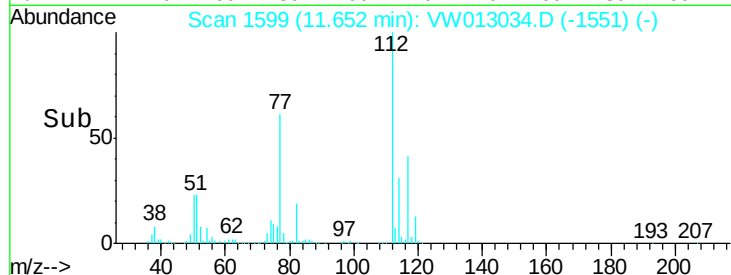
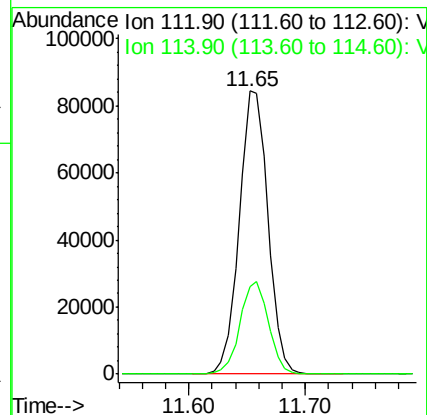
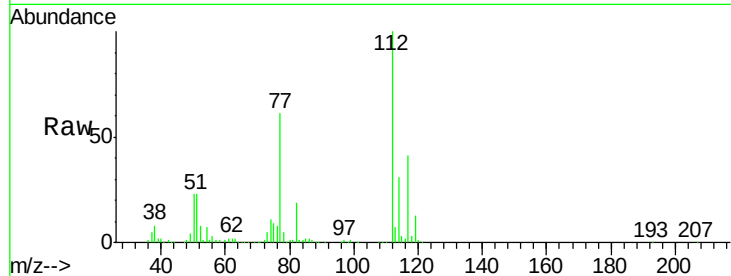
112 100

114 31.0 26.4 39.6

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 19.310 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

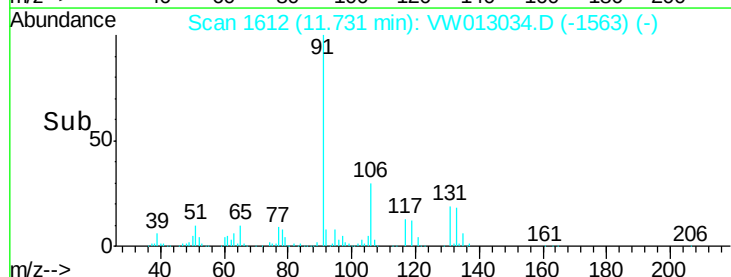
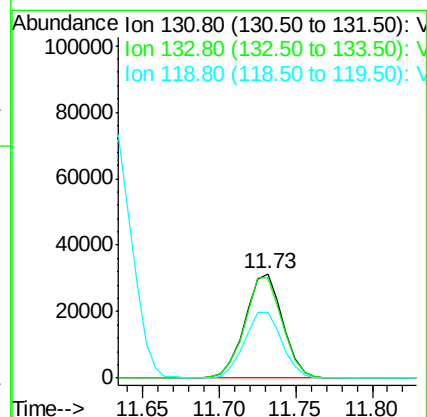
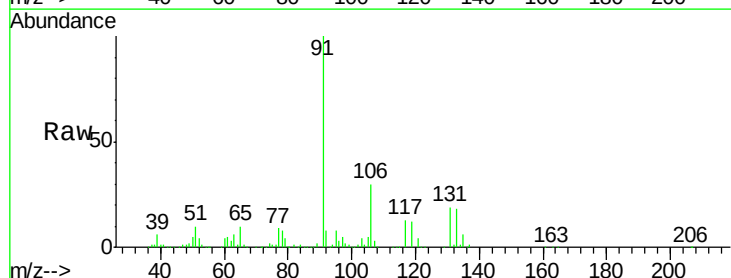
Tgt Ion:131 Resp: 53228

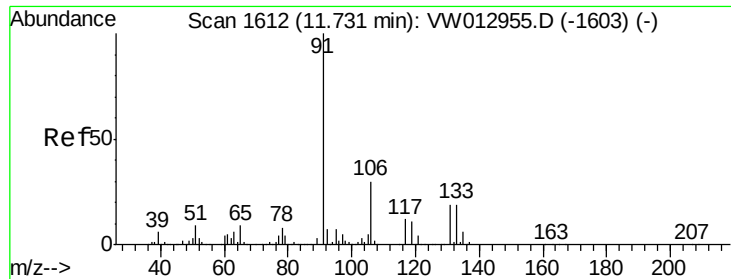
Ion Ratio Lower Upper

131 100

133 97.5 47.9 143.8

119 63.7 30.9 92.7





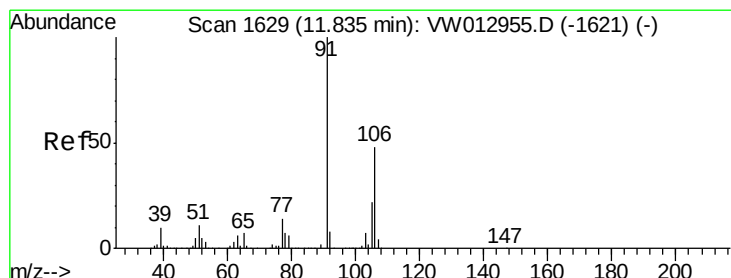
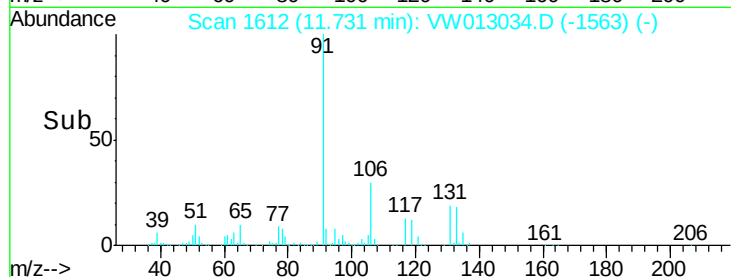
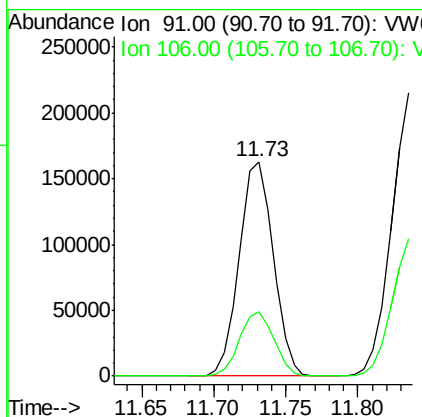
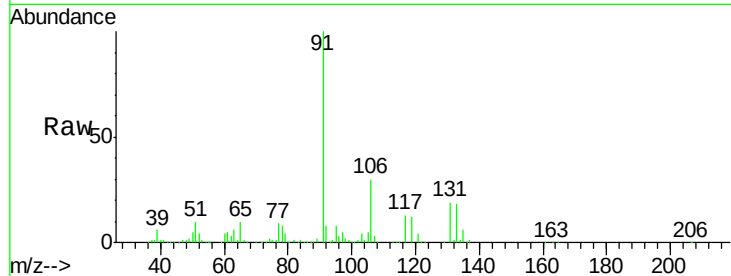
#67
Ethyl Benzene
Concen: 20.209 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.3	36.5

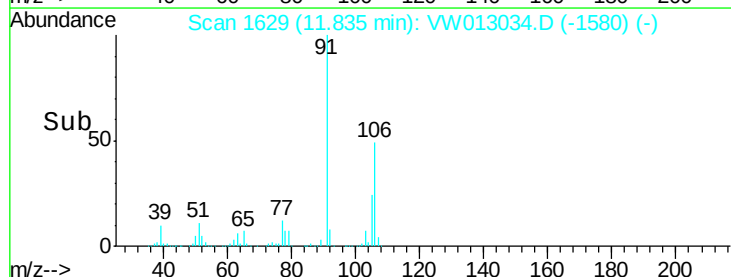
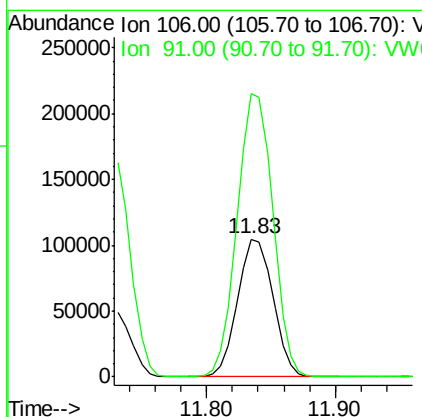
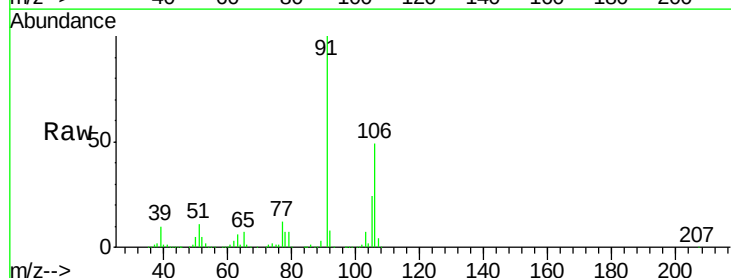
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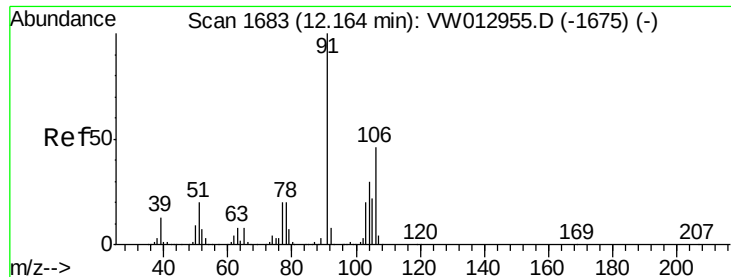
MMDadoda
9/18/2019 2:00:55 PM



#68
m/p-Xylenes
Concen: 41.149 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
106	100		
91	206.8	165.8	248.8





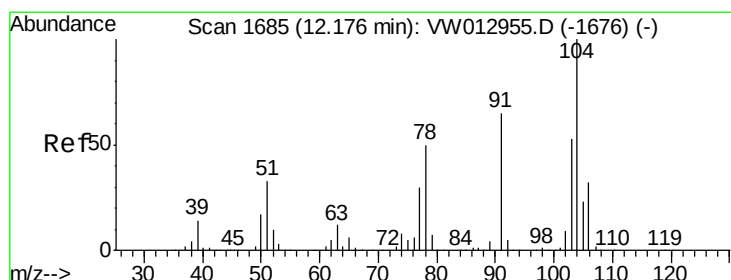
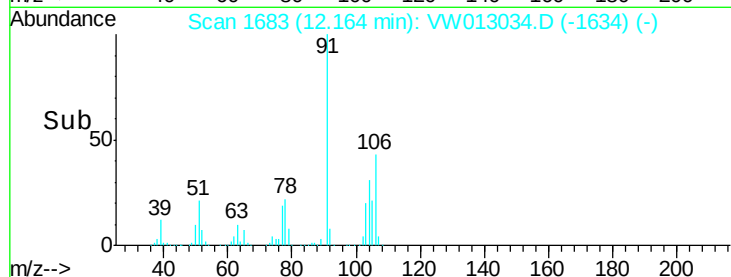
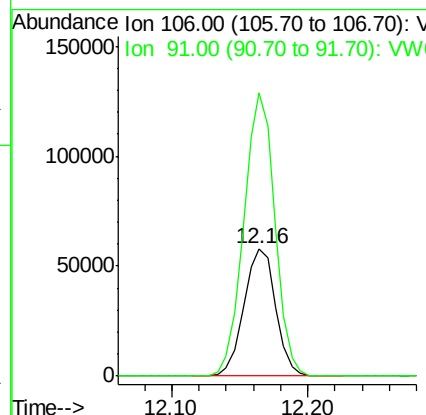
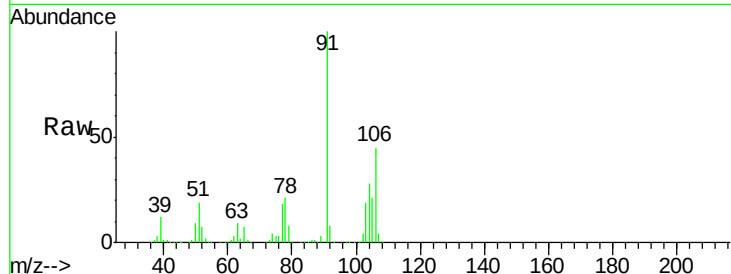
#69
o-Xylene
Concen: 20.698 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

Tot Ion:106 Resp: 94169
Ion Ratio Lower Upper
106 100
91 218.1 109.7 329.0

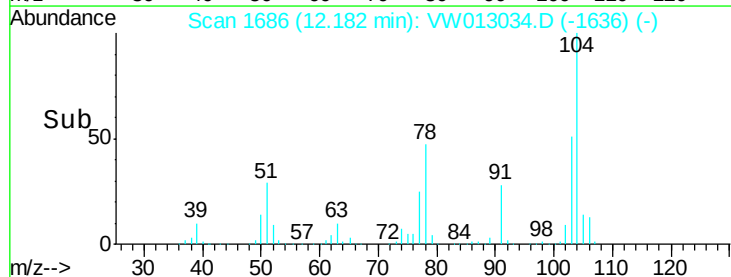
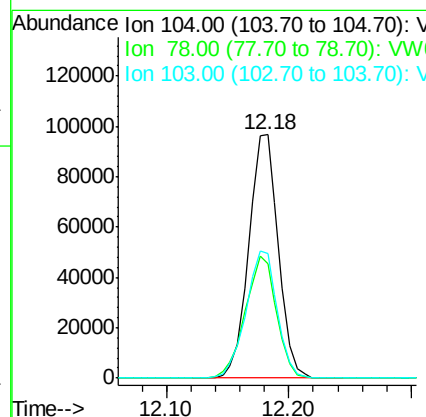
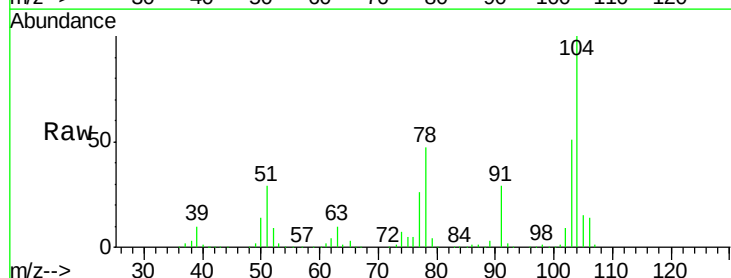
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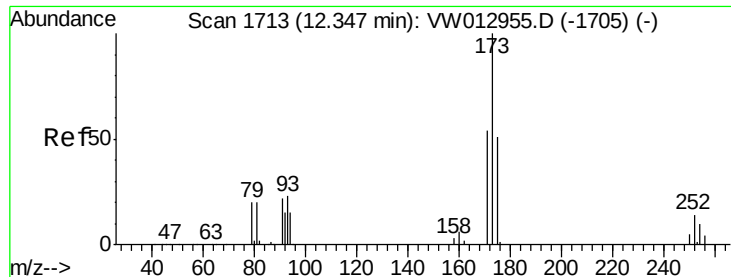
MMDadoda
9/18/2019 2:00:55 PM



#70
Styrene
Concen: 20.071 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion:104 Resp: 162447
Ion Ratio Lower Upper
104 100
78 52.9 42.1 63.1
103 55.1 44.2 66.4





#71

Bromoform

Concen: 19.308 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

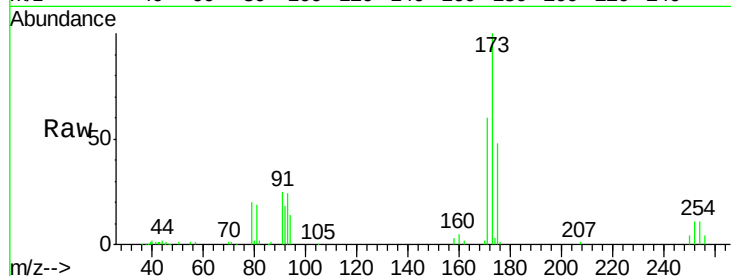
ClientSampleId :

VW0916SBSD01

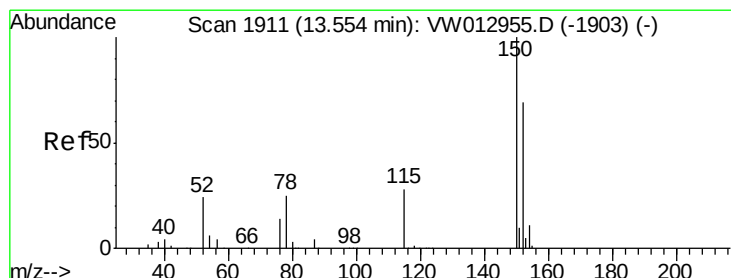
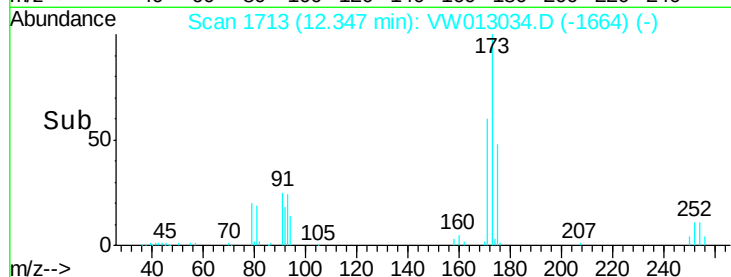
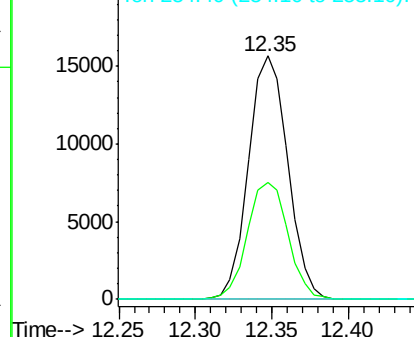
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.2	72.6
254	0.0	0.1	0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

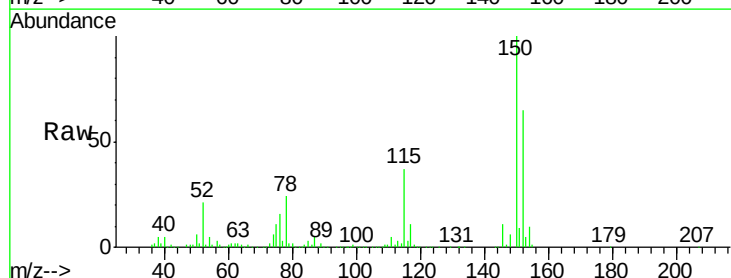
RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

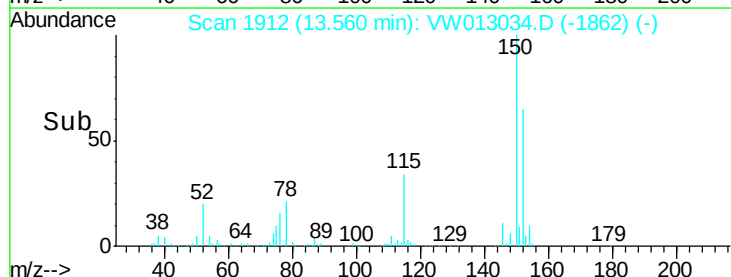
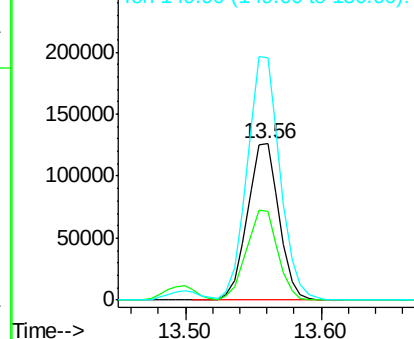
Lab File: VW013034.D

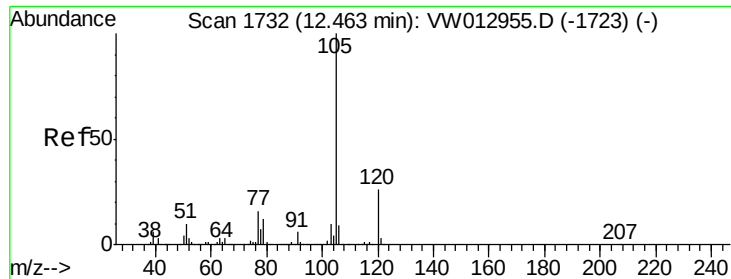
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.8	86.4
150	162.3	0.0	340.2



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





#73

Isopropylbenzene

Concen: 19.943 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBS01

Tot Ion:105 Resp: 270067

Ion Ratio Lower Upper

105 100

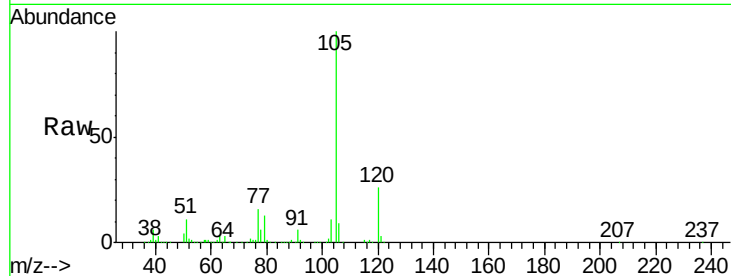
120 25.7 13.0 39.0

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

50000

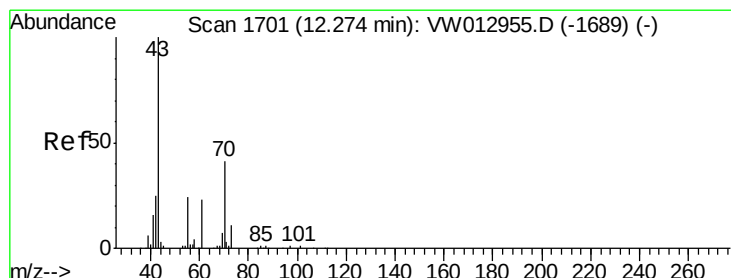
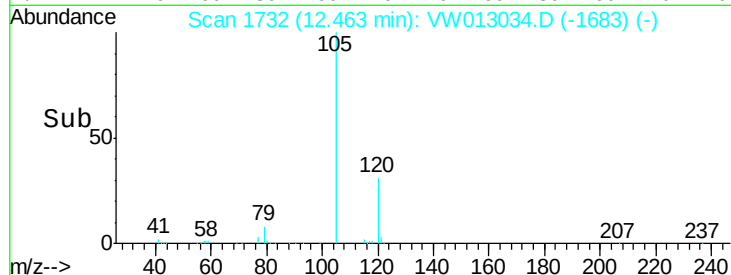
0

12.46

12.40

12.50

Time-->



#74

N-ethyl acetate

Concen: 19.744 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Tgt Ion: 43 Resp: 68782

Ion Ratio Lower Upper

43 100

70 39.1 31.7 47.5

55 24.1 19.4 29.2

61 23.0 18.7 28.1

Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

60000

40000

20000

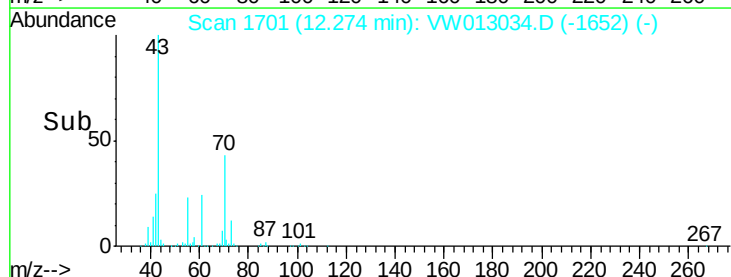
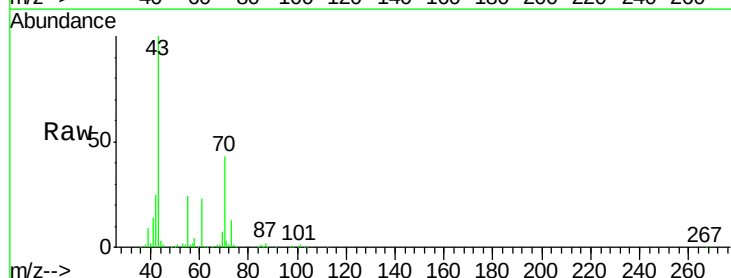
0

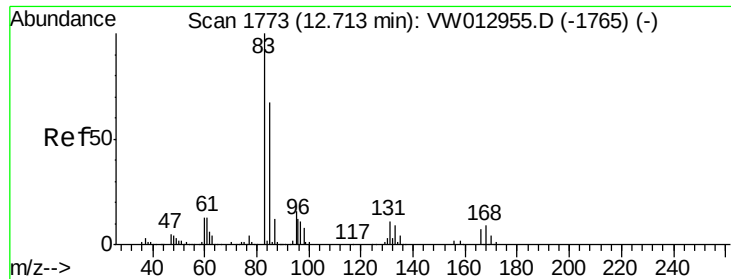
12.27

12.20

12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.398 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

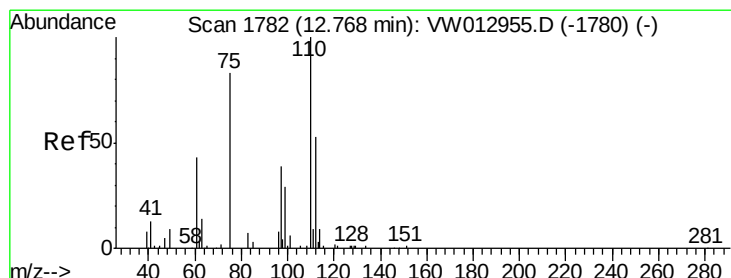
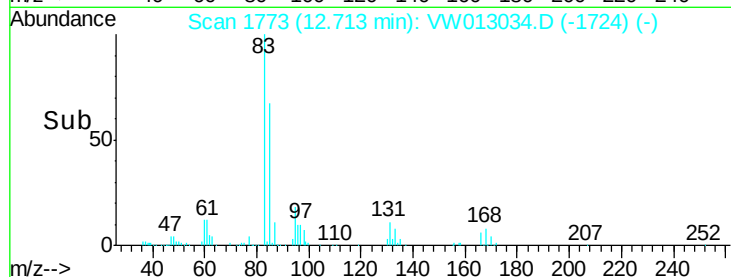
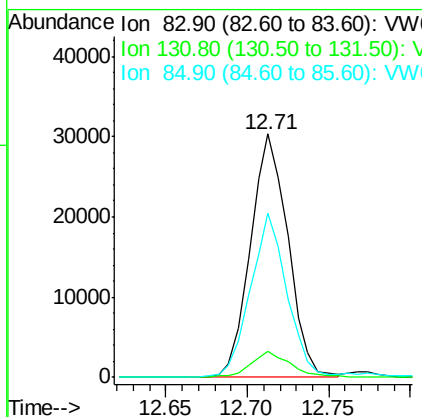
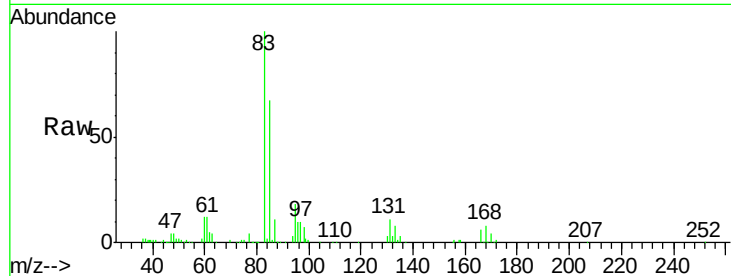
ClientSampleId :

VW0916SBSD01

Tot Ion:	83	Resp:	48517
Ion Ratio	Lower	Upper	
83	100		
131	11.3	5.7	17.1
85	65.6	31.4	94.3

Manual Integrations
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9/18/2019 2:00:55 PM



#76

1,2,3-Trichloropropane

Concen: 17.892 ug/l m

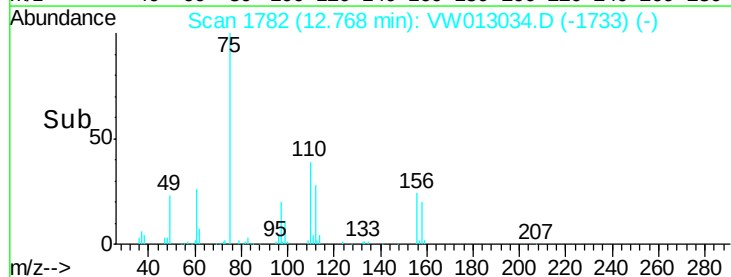
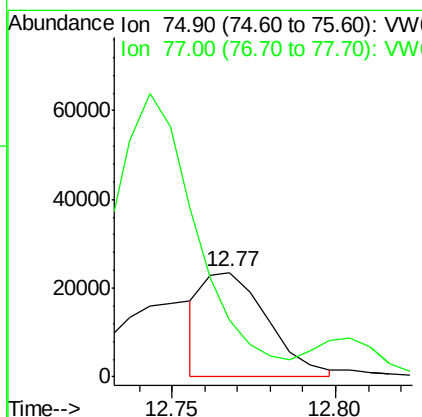
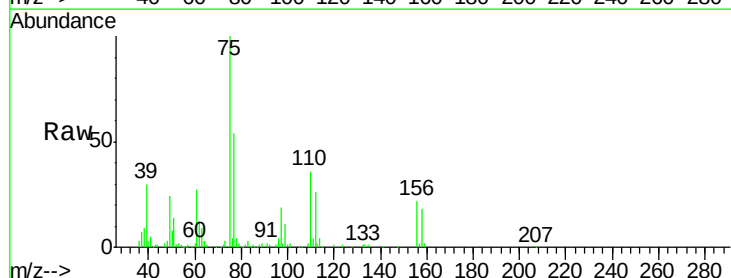
RT: 12.77 min Scan# 1782

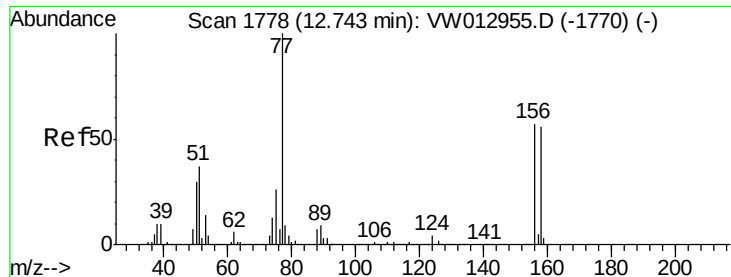
Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Tgt Ion:	75	Resp:	32019
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.903 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBSD01

Tot Ion:156 Resp: 62093

Ion Ratio Lower Upper

156 100

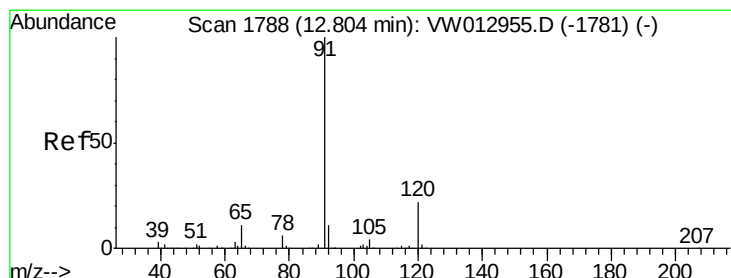
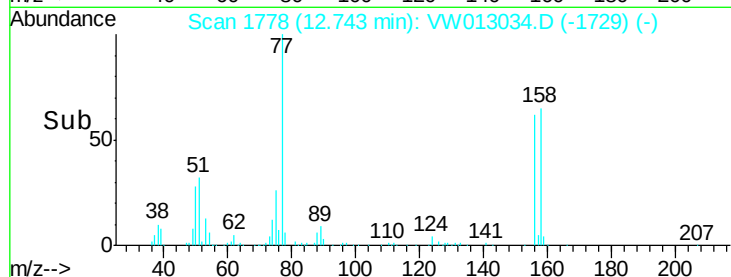
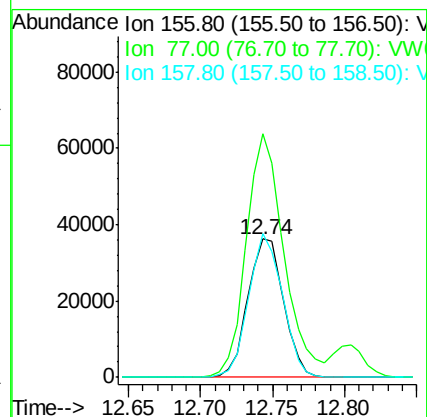
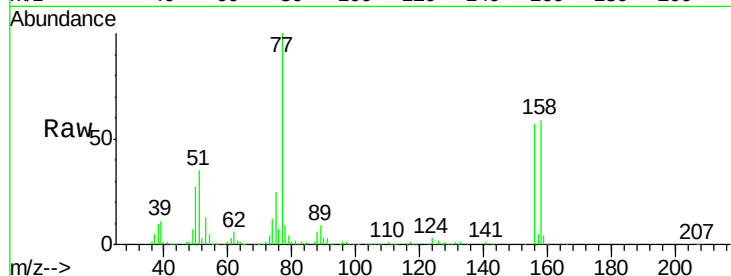
77 186.1 95.2 285.6

158 98.1 49.0 147.2

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#78

n-propylbenzene

Concen: 20.072 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013034.D

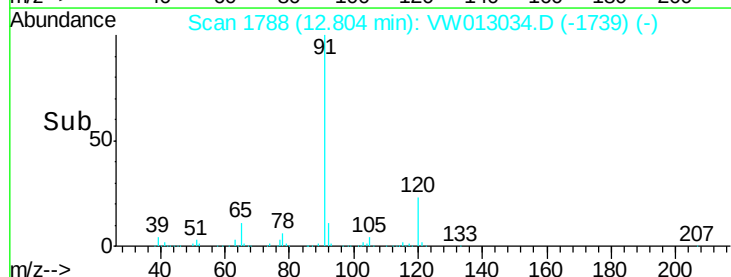
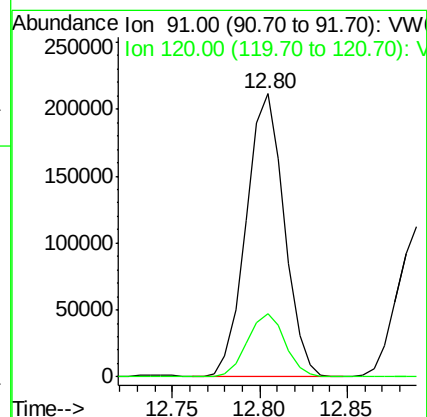
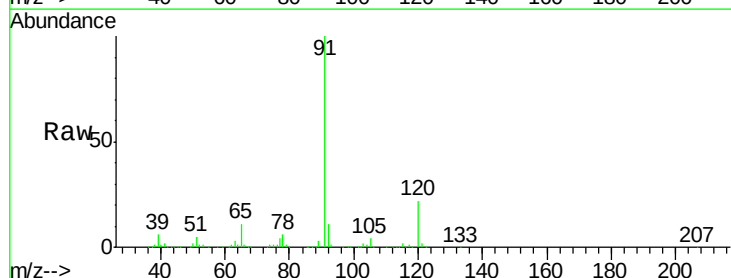
Acq: 16 Sep 2019 12:06

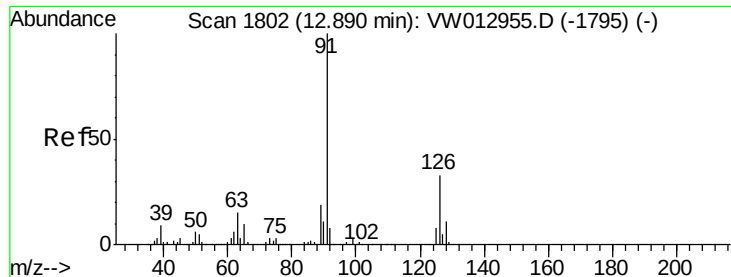
Tgt Ion: 91 Resp: 319741

Ion Ratio Lower Upper

91 100

120 22.2 11.2 33.5





#79

2-Chlorotoluene

Concen: 19.834 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBSD01

Tot Ion: 91 Resp: 181630

Ion Ratio Lower Upper

91 100

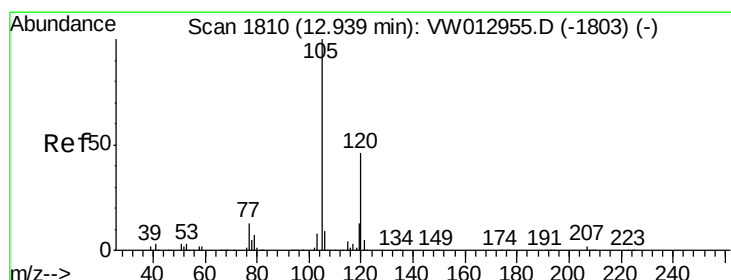
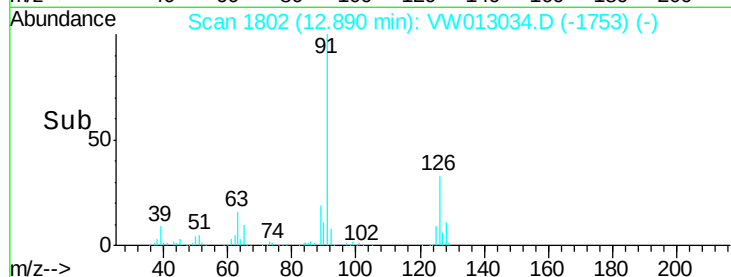
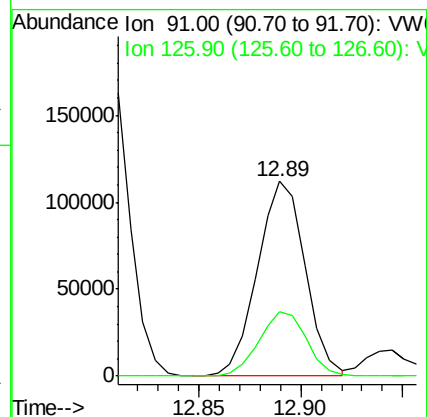
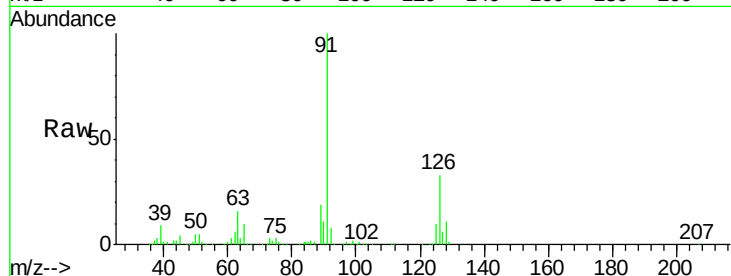
126 33.1 16.5 49.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.574 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW013034.D

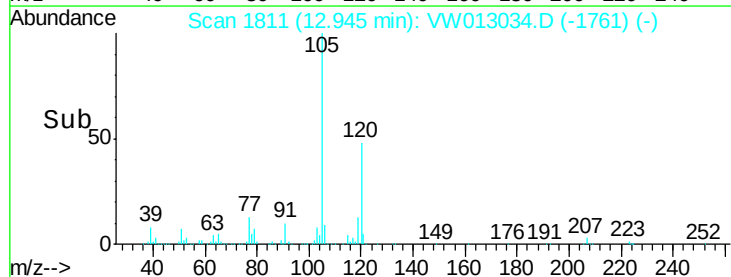
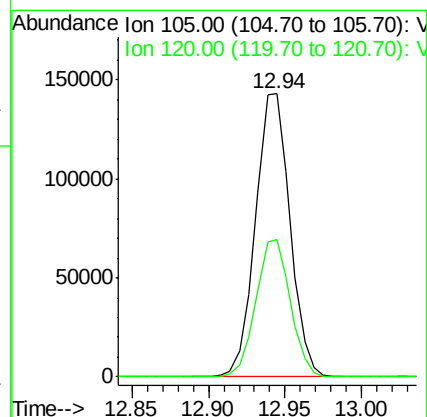
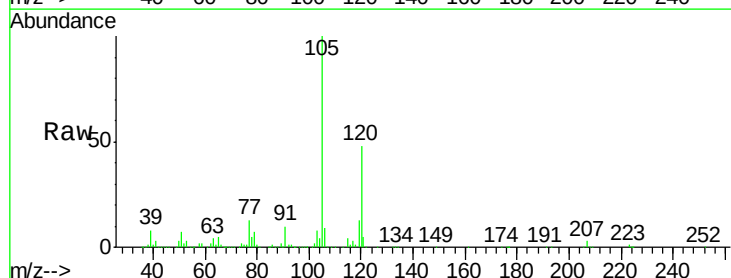
Acq: 16 Sep 2019 12:06

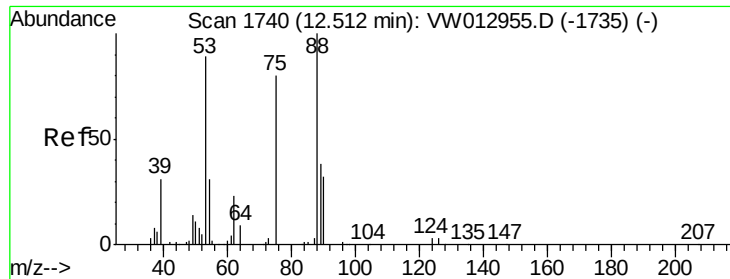
Tgt Ion:105 Resp: 224256

Ion Ratio Lower Upper

105 100

120 48.6 24.2 72.6





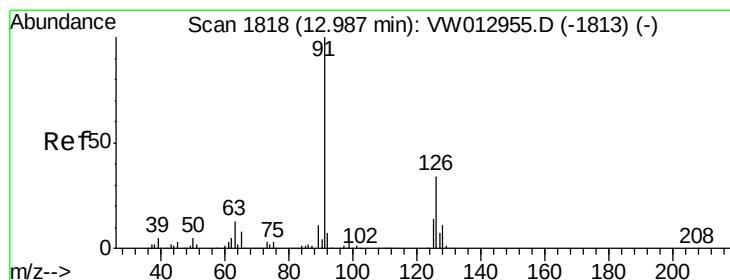
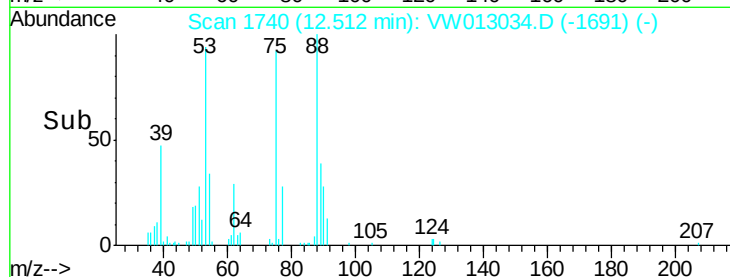
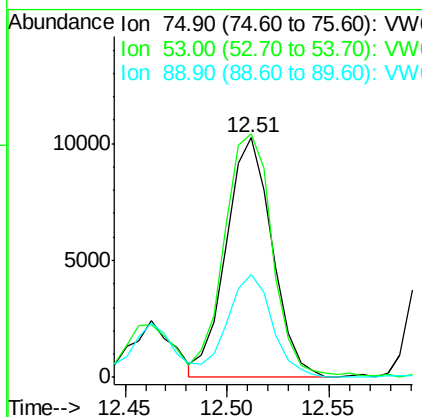
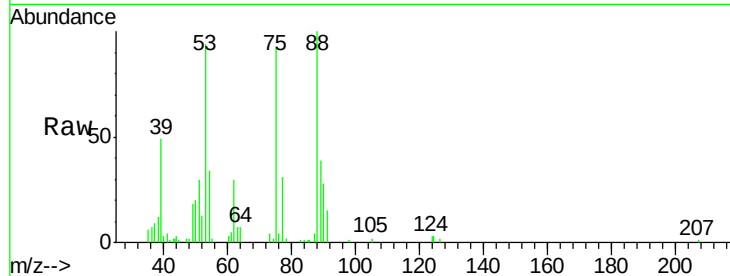
#81
trans-1,4-Dichloro-2-butene
Concen: 20.265 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBS01

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
53	107.5	85.6	128.4	
89	41.3	37.2	55.8	

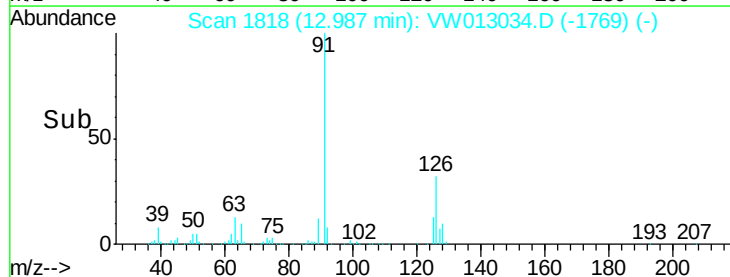
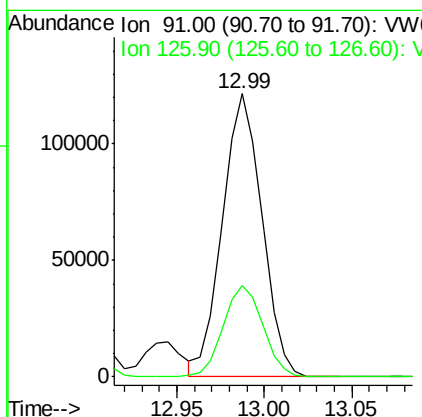
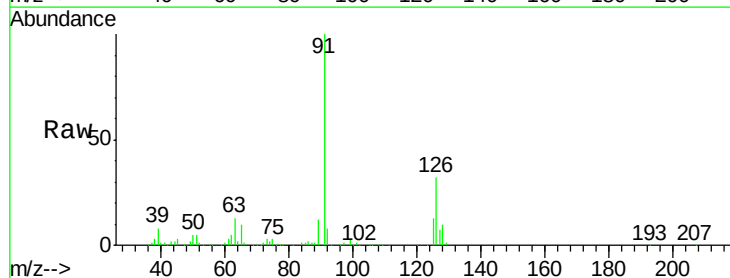
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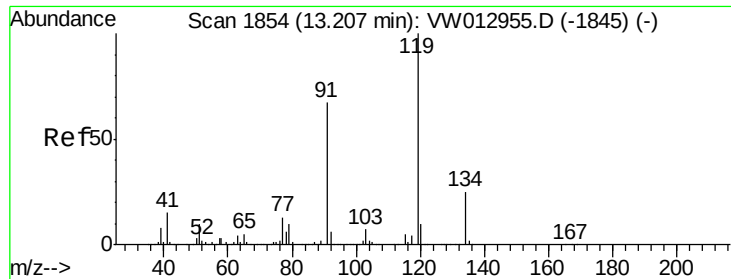
MMDadoda
9/18/2019 2:00:55 PM



#82
4-Chlorotoluene
Concen: 19.725 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
126	32.6	16.1	48.3	





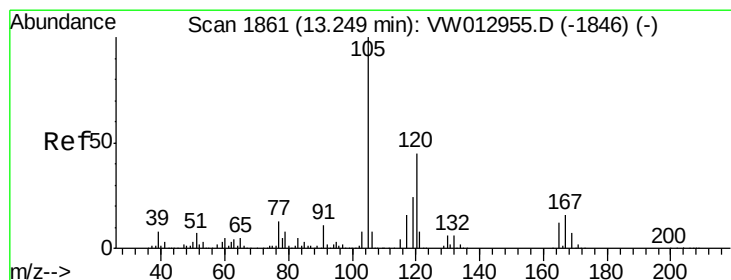
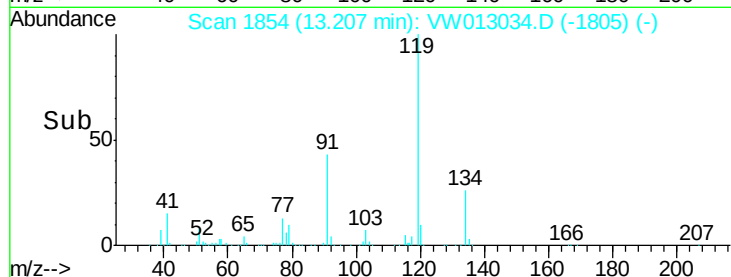
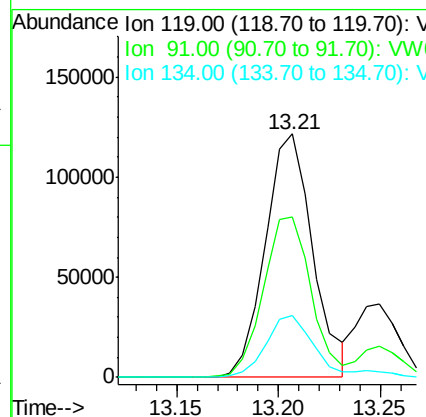
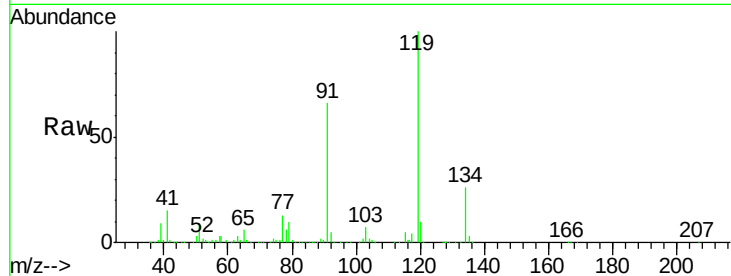
#83
 tert-Butylbenzene
 Concen: 19.299 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	197766		
91	66.1		32.6	98.0
134	25.4		12.4	37.4

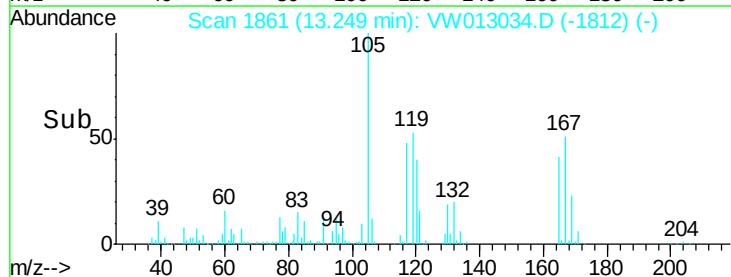
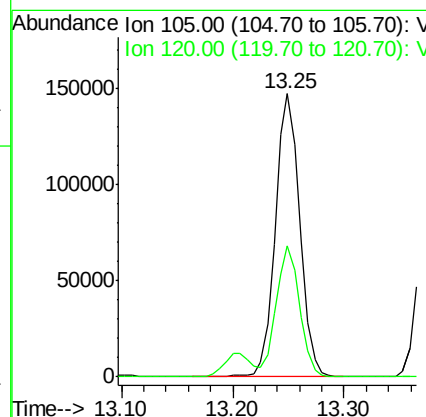
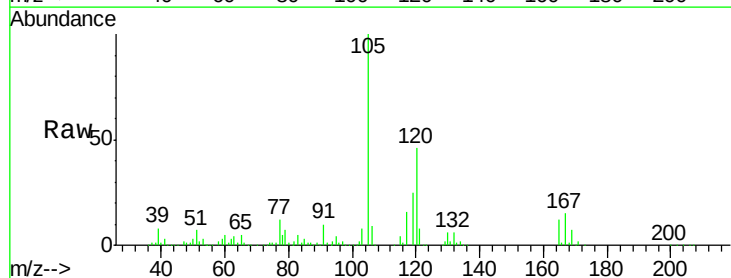
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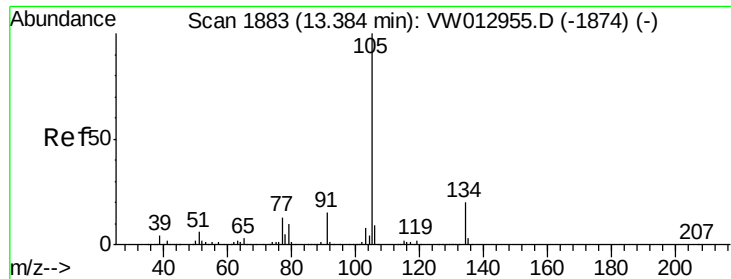
MMDadoda
 9/18/2019 2:00:55 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.879 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	225054		
120	44.1		21.9	65.7





#85

sec-Butylbenzene

Concen: 19.533 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

Instrument :

MSVOA_W

ClientSampleId :

VW0916SBS01

Tot Ion:105 Resp: 272720

Ion Ratio Lower Upper

105 100

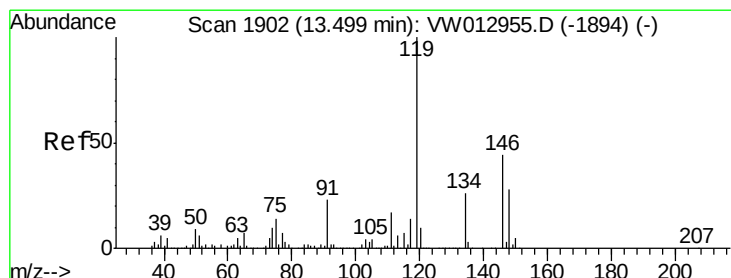
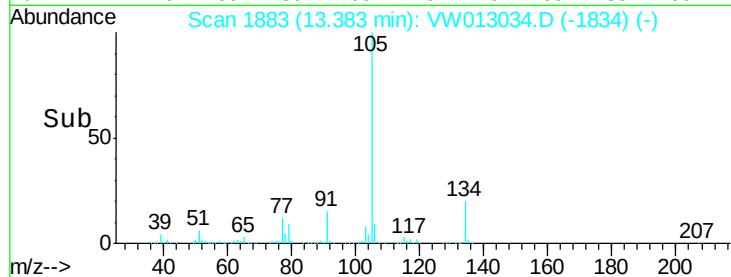
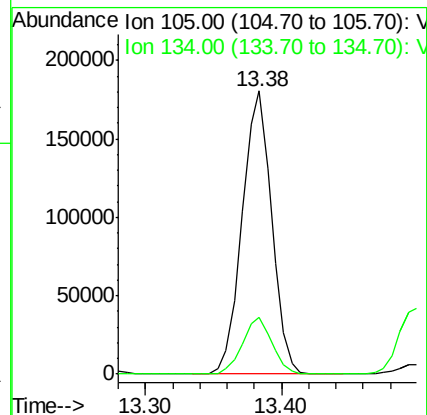
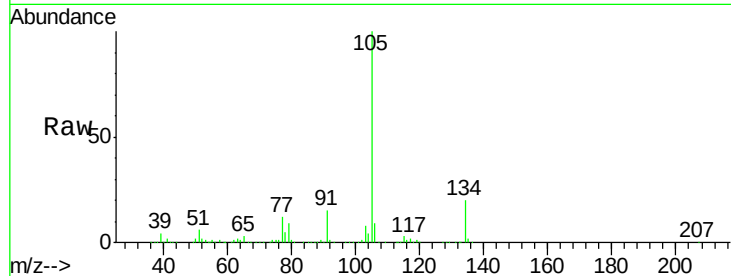
134 20.1 10.2 30.4

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#86

p-Isopropyltoluene

Concen: 19.807 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013034.D

Acq: 16 Sep 2019 12:06

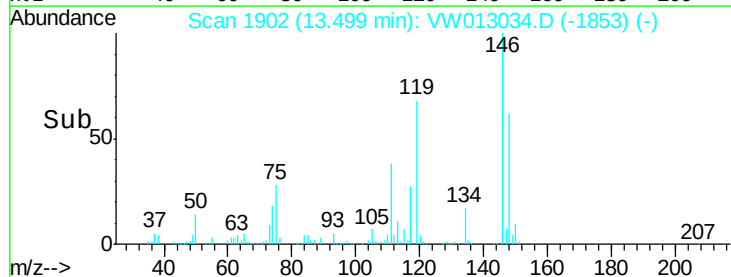
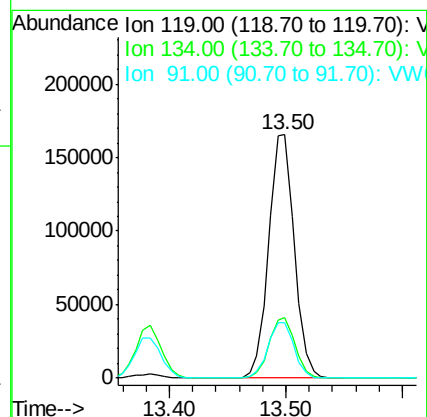
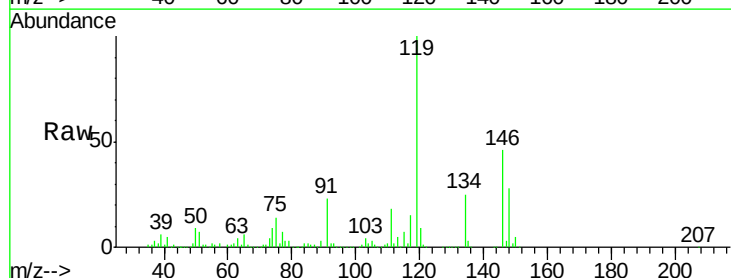
Tgt Ion:119 Resp: 253903

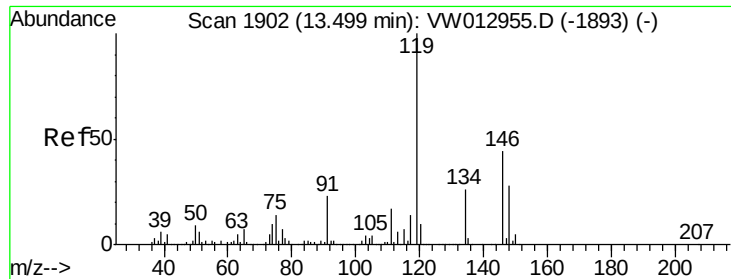
Ion Ratio Lower Upper

119 100

134 25.0 12.8 38.3

91 23.1 11.8 35.4





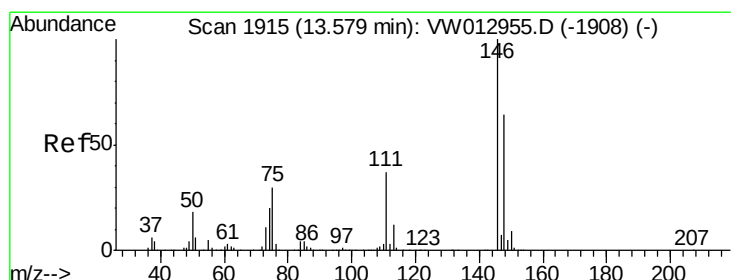
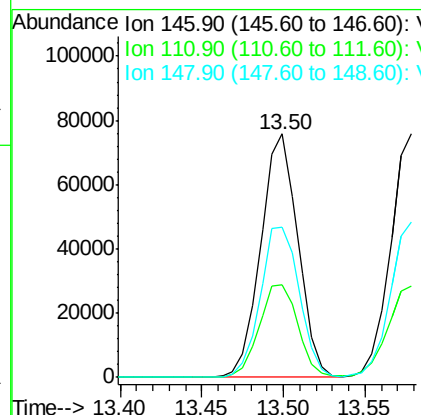
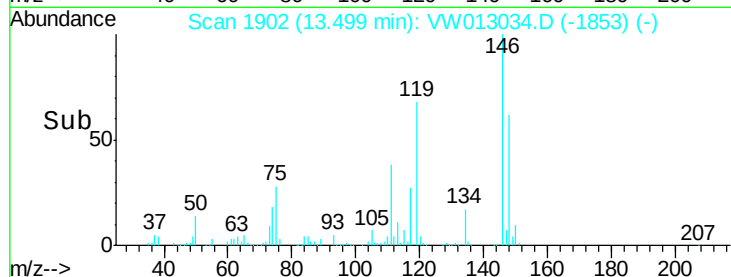
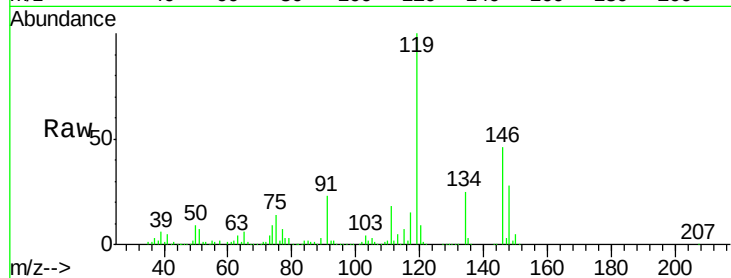
#87
 1,3-Dichlorobenzene
 Concen: 19.469 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	120236		
111	39.7	19.8	59.4	
148	65.0	31.9	95.7	

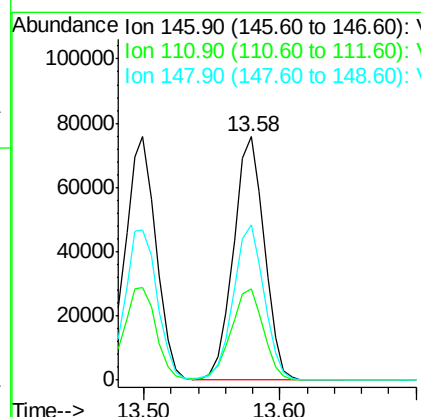
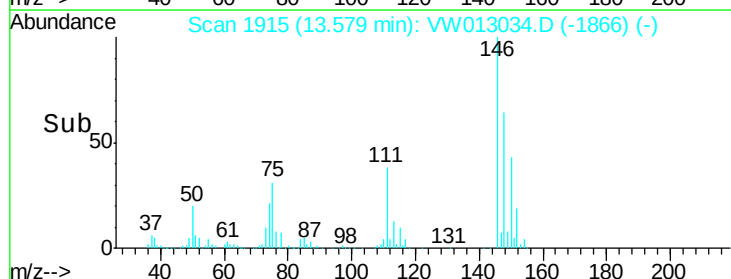
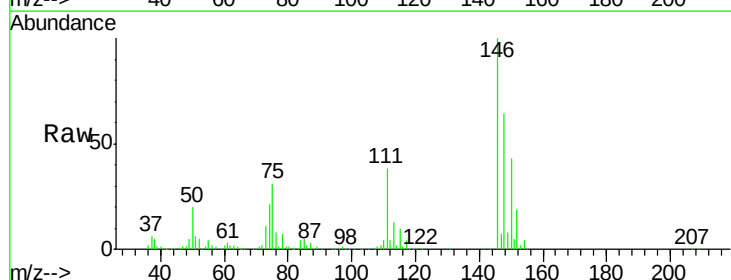
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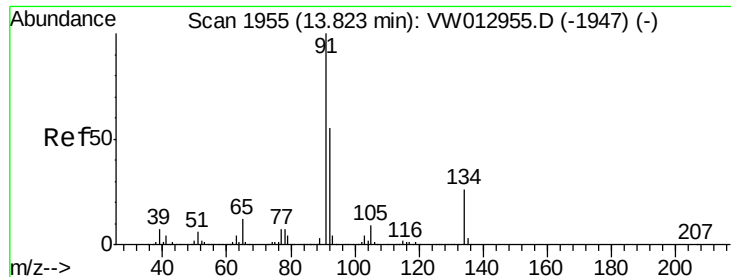
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 9/18/2019 2:00:55 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.722 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	119693		
111	39.7	19.4	58.2	
148	63.9	31.9	95.5	





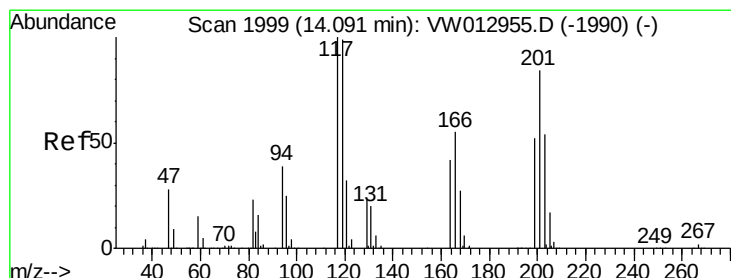
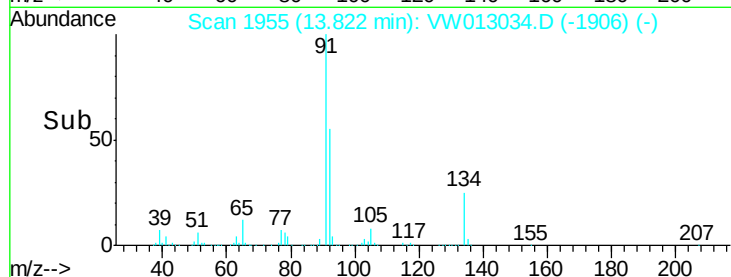
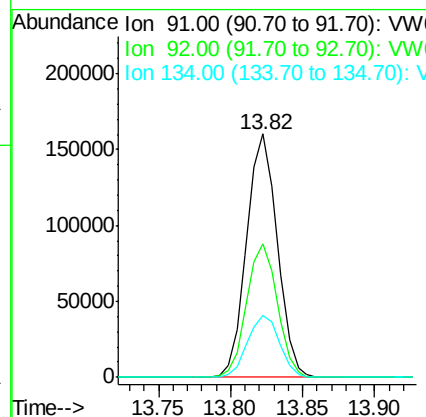
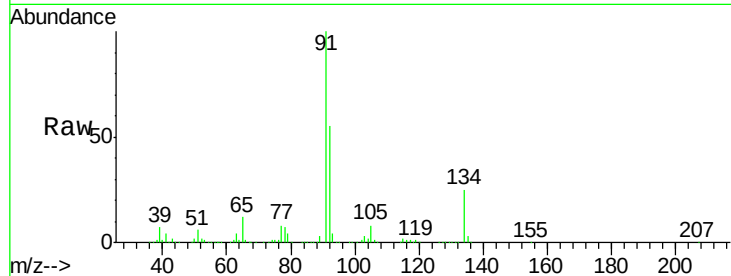
#89
n-Butylbenzene
Concen: 19.543 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	236251		
92	54.8		27.2	81.5
134	26.3		13.1	39.1

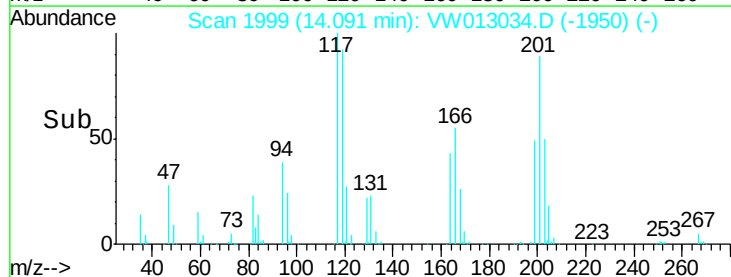
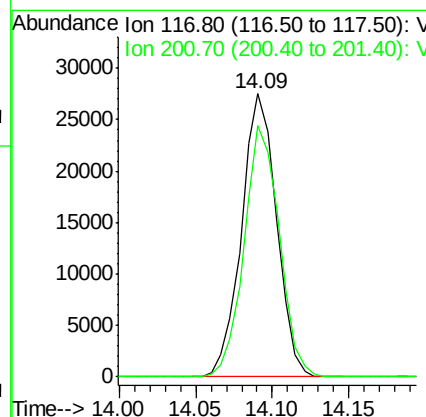
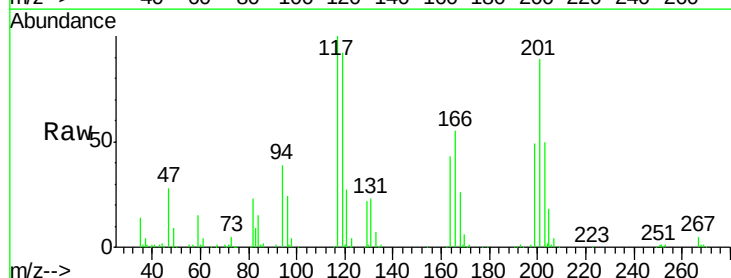
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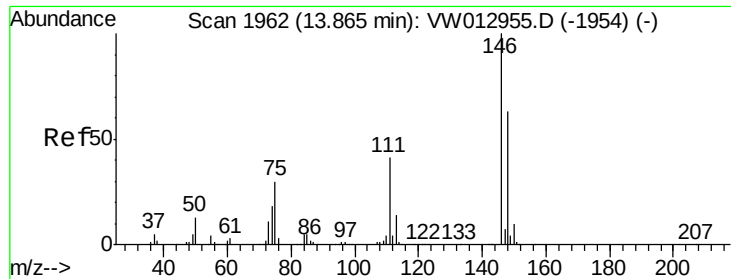
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#90
Hexachloroethane
Concen: 19.040 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	43738		
201	89.2		45.3	135.9





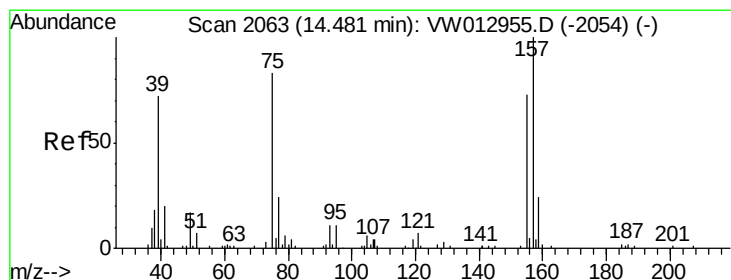
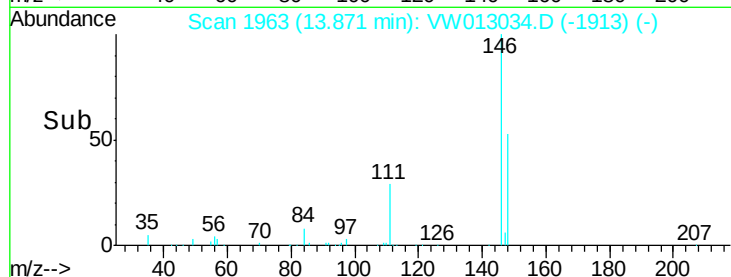
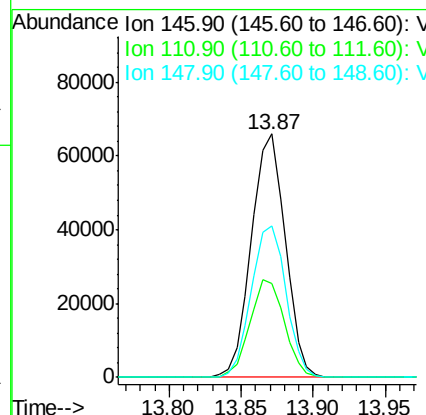
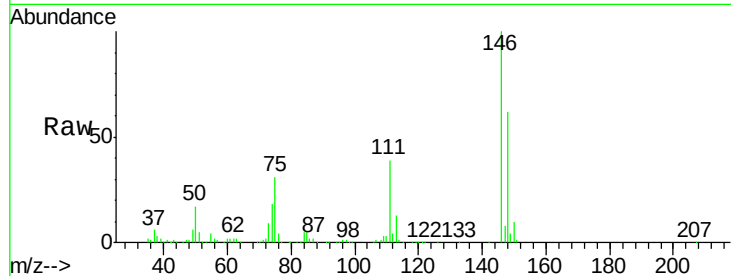
#91
 1,2-Dichlorobenzene
 Concen: 19.795 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.5
148	63.9	32.7	98.1

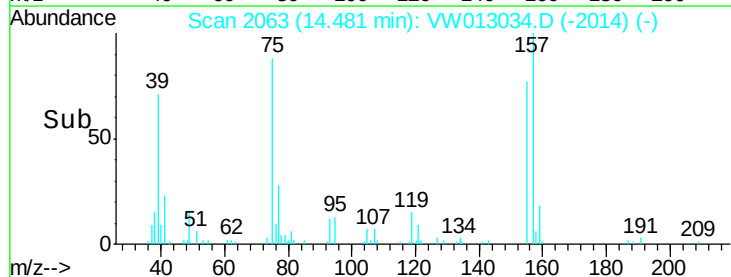
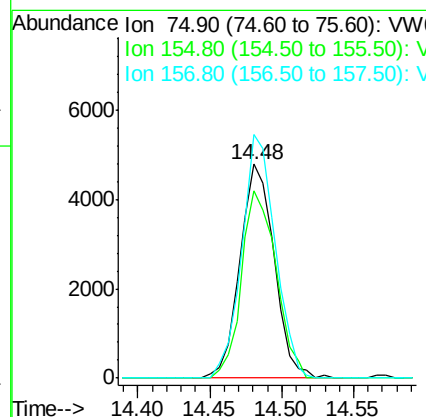
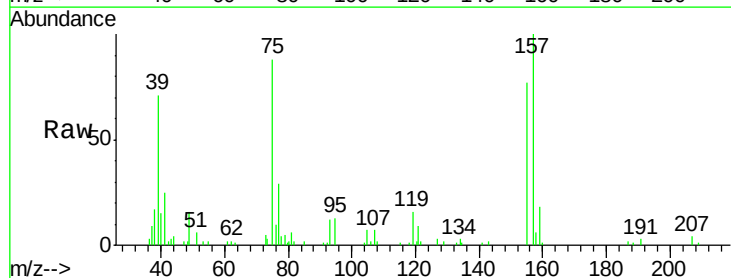
Manual Integrations
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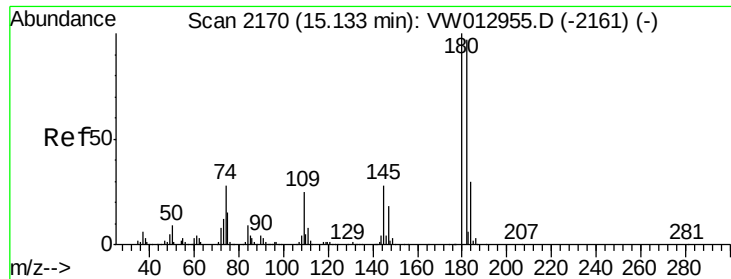
MMDadoda
 9/18/2019 2:00:55 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.166 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.0	43.3	129.9
157	111.1	54.7	164.1





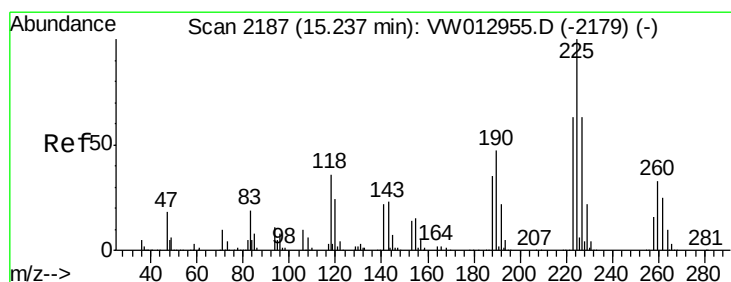
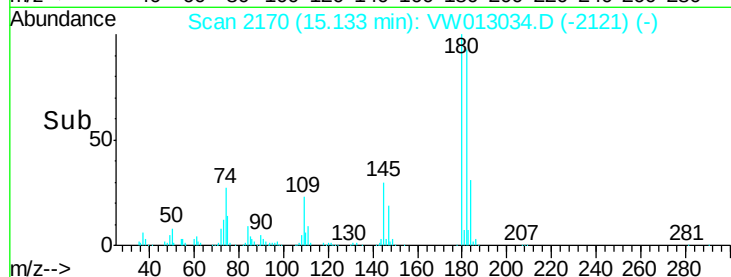
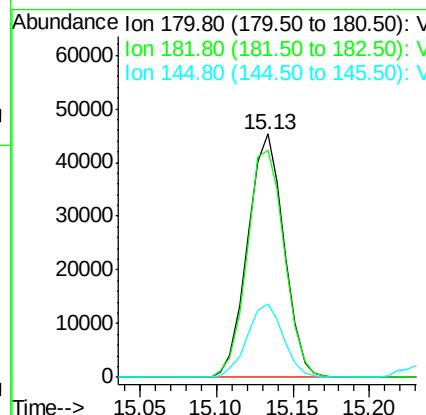
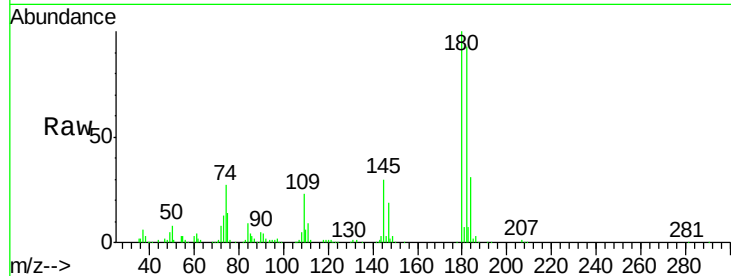
#93
 1,2,4-Trichlorobenzene
 Concen: 19.271 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0916SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.4	142.2
145	30.2	14.9	44.7

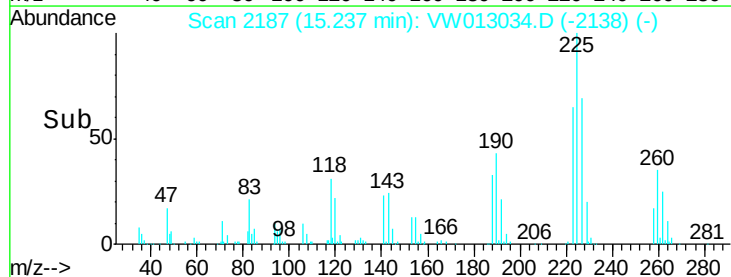
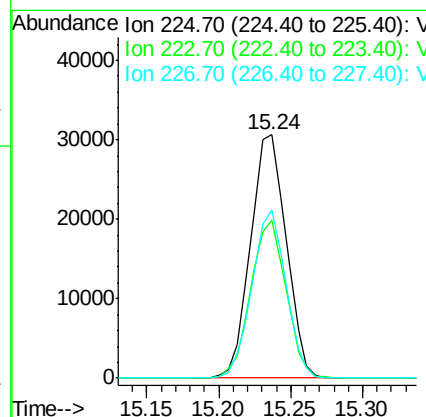
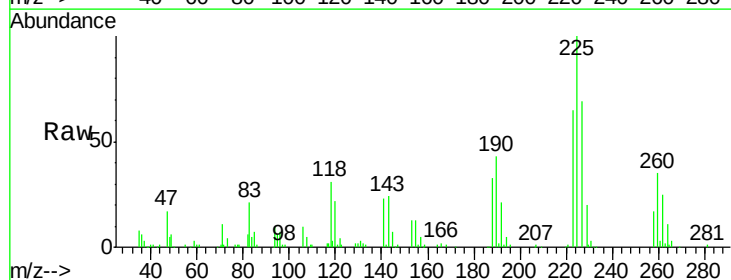
Manual Integrations
 APPROVED

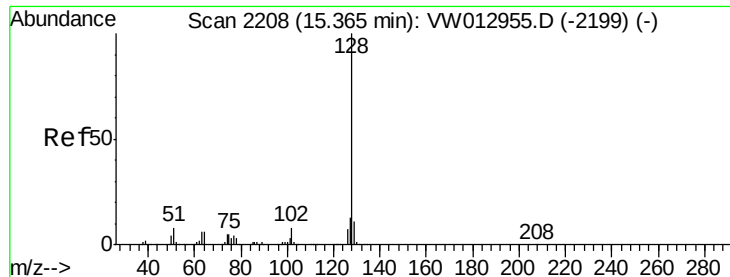
MMDadoda
 9/18/2019 2:00:55 PM



#94
 Hexachlorobutadiene
 Concen: 19.116 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW013034.D
 Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.8	95.3
227	65.9	31.3	93.8





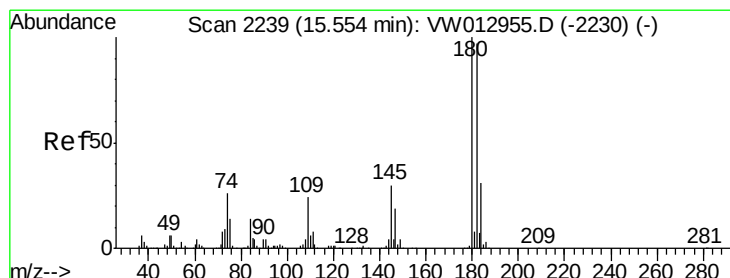
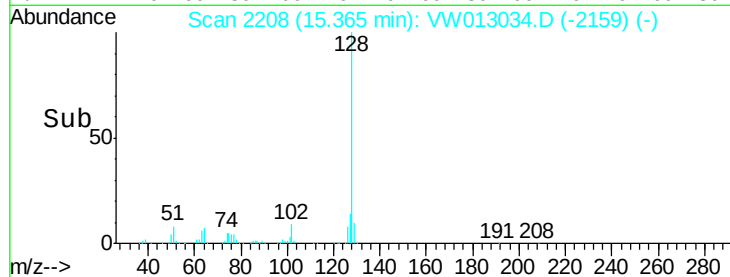
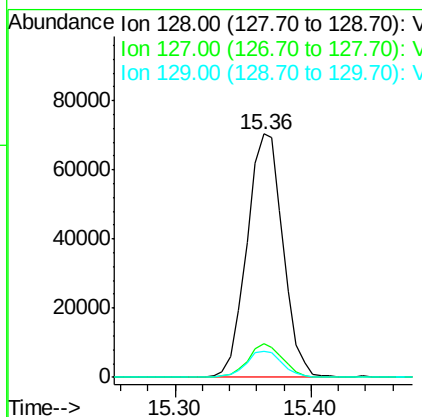
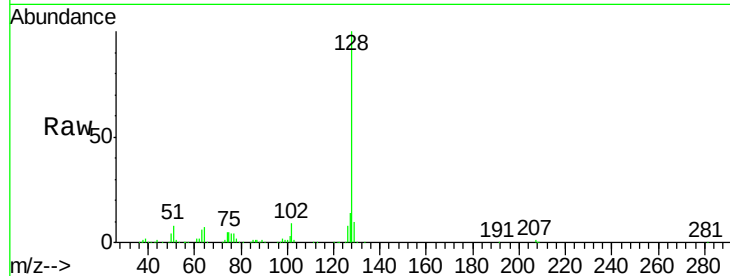
#95
Naphthalene
Concen: 20.204 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Instrument :
MSVOA_W
ClientSampleId :
VW0916SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	11.0	16.6
129	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/18/2019 2:00:55 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.416 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW013034.D
Acq: 16 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	30.2	15.4	46.2

