

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091918\
 Data File : VD060038.D
 Acq On : 19 Sep 2018 12:03
 Operator : JC/SY
 Sample : VD0919SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Manual Integrations
 APPROVED

MMDadoda
 9/21/2018 5:02:14 PM

Quant Time: Sep 21 16:13:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1625729	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.45	114	2238875	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.29	117	1831557	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.38	152	967925	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	626663	49.43	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.86%	
35) Dibromofluoromethane	6.32	113	883266	50.50	ug/l	0.02
Spiked Amount	50.000		Recovery	=	101.00%	
50) Toluene-d8	9.46	98	2493129	51.43	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.44	95	927532	50.08	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	321700	18.746	ug/l	100
3) Chloromethane	1.75	50	328755	21.688	ug/l	99
4) Vinyl Chloride	1.85	62	249116	20.443	ug/l	99
5) Bromomethane	2.13	94	20828	14.440	ug/l	92
6) Chloroethane	2.24	64	60606	22.246	ug/l	96
7) Trichlorofluoromethane	2.50	101	291966	21.762	ug/l	97
8) Diethyl Ether	2.82	74	62592	21.947	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.08	101	190196	22.482	ug/l	98
10) Methyl Iodide	3.24	142	180054	20.095	ug/l	95
11) Tert butyl alcohol	3.97	59	77517	75.775	ug/l	99
12) 1,1-Dichloroethene	3.07	96	149243	22.311	ug/l	97
13) Acrolein	2.98	56	54677	86.309	ug/l	93
14) Allyl chloride	3.53	41	291218	20.643	ug/l	98
15) Acrylonitrile	4.08	53	362595	93.900	ug/l	99
16) Acetone	3.16	43	283443	115.798	ug/l	100
17) Carbon Disulfide	3.31	76	477899	20.735	ug/l	99
18) Methyl Acetate	3.56	43	95037	19.091	ug/l	96
19) Methyl tert-butyl Ether	4.12	73	590847	19.117	ug/l	99
20) Methylene Chloride	3.72	84	395682	18.123	ug/l	97
21) trans-1,2-Dichloroethene	4.10	96	350277	19.954	ug/l	100
22) Diisopropyl ether	4.86	45	1268787	19.717	ug/l	96
23) Vinyl Acetate	4.80	43	3634312	99.693	ug/l	98
24) 1,1-Dichloroethane	4.76	63	587564	20.347	ug/l	99
25) 2-Butanone	5.63	43	702040	106.287	ug/l	100
26) 2,2-Dichloropropane	5.59	77	479299	21.349	ug/l	98
27) cis-1,2-Dichloroethene	5.60	96	373012	20.315	ug/l	96
28) Bromochloromethane	5.92	49	282399	20.345	ug/l	91
29) Tetrahydrofuran	5.96	42	322663	91.089	ug/l	99
30) Chloroform	6.11	83	591952	20.214	ug/l	99
31) Cyclohexane	6.36	56	544727	19.347	ug/l	99
32) 1,1,1-Trichloroethane	6.30	97	480624	19.788	ug/l	99
36) 1,1-Dichloropropene	6.52	75	447158	20.106	ug/l	97
37) Ethyl Acetate	5.69	43	294023	19.225	ug/l	96
38) Carbon Tetrachloride	6.50	117	402220	19.374	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.05	83	494892	19.671	ug/l	97
40) Benzene	6.80	78	1149744	20.284	ug/l	99
41) Methacrylonitrile	5.93	41	134608m	16.805	ug/l	
42) 1,2-Dichloroethane	6.90	62	319140	18.751	ug/l	99
43) Isopropyl Acetate	8.35	43	367614	17.953	ug/l #	99
44) Trichloroethene	7.74	130	352258	20.114	ug/l	100
45) 1,2-Dichloropropane	8.11	63	295434	19.491	ug/l	99
46) Dibromomethane	8.22	93	188476	19.058	ug/l	93
47) Bromodichloromethane	8.50	83	418968	19.650	ug/l	99
48) Methyl methacrylate	8.25	41	214165	18.779	ug/l	99
49) 1,4-Dioxane	8.23	88	41436	365.808	ug/l	95
51) 4-Methyl-2-Pentanone	9.35	43	1473503	97.173	ug/l	100
52) Toluene	9.55	92	735610	20.246	ug/l	98
53) t-1,3-Dichloropropene	9.93	75	394672	19.847	ug/l	100
54) cis-1,3-Dichloropropene	9.11	75	470202	19.790	ug/l	99
55) 1,1,2-Trichloroethane	10.19	97	241758	19.164	ug/l	95
56) Ethyl methacrylate	10.03	69	254033	18.155	ug/l	98
57) 1,3-Dichloropropane	10.39	76	362115	19.447	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.93	63	716381	106.024	ug/l	98
59) 2-Hexanone	10.50	43	1090447	100.025	ug/l	100
60) Dibromochloromethane	10.64	129	295742	19.261	ug/l	99
61) 1,2-Dibromoethane	10.76	107	246375	18.916	ug/l	97
64) Tetrachloroethene	10.26	164	312511	19.339	ug/l	97
65) Chlorobenzene	11.32	112	816936	20.746	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	266621	20.075	ug/l	98
67) Ethyl Benzene	11.43	91	1330969	21.003	ug/l	97
68) m/p-Xylenes	11.57	106	1040298	44.450	ug/l	94
69) o-Xylene	11.94	106	490012	21.131	ug/l	97
70) Styrene	11.96	104	813419	20.861	ug/l	98
71) Bromoform	12.12	173	205050	17.970	ug/l	96
73) Isopropylbenzene	12.28	105	1372420	21.619	ug/l	98
74) N-amyl acetate	12.14	43	470928	18.728	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.56	83	278834	19.362	ug/l	97
76) 1,2,3-Trichloropropane	12.60	75	275201	18.616	ug/l	99
77) Bromobenzene	12.54	156	375974	20.561	ug/l	94
78) n-propylbenzene	12.64	91	1720233	21.549	ug/l	97
79) 2-Chlorotoluene	12.71	91	910390	20.205	ug/l	98
80) 1,3,5-Trimethylbenzene	12.80	105	1058878	21.762	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.35	75	83156	18.635	ug/l	96
82) 4-Chlorotoluene	12.82	91	1064201	21.483	ug/l	90
83) tert-Butylbenzene	13.06	119	1204092	21.361	ug/l	99
84) 1,2,4-Trimethylbenzene	13.10	105	1075337	20.710	ug/l	98
85) sec-Butylbenzene	13.22	105	1377054	20.580	ug/l	98
86) p-Isopropyltoluene	13.35	119	1129257	20.866	ug/l	100
87) 1,3-Dichlorobenzene	13.31	146	659467	20.739	ug/l	99
88) 1,4-Dichlorobenzene	13.40	146	666530	20.665	ug/l	98
89) n-Butylbenzene	13.65	91	1180843	20.130	ug/l	95
90) Hexachloroethane	13.86	117	265618	19.816	ug/l	97
91) 1,2-Dichlorobenzene	13.67	146	566456	19.078	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.23	75	36699	16.716	ug/l	88

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ClientSampleId :
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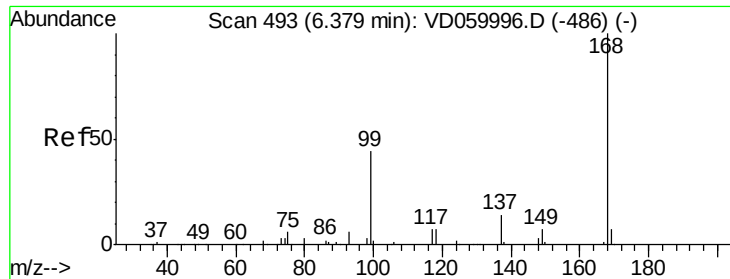
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	448022	19.771	ug/l	97
94) Hexachlorobutadiene	14.89	225	310748	20.730	ug/l	100
95) Naphthalene	14.97	128	637002	18.202	ug/l	99
96) 1,2,3-Trichlorobenzene	15.12	180	383511	19.205	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion:168 Resp: 1625729

Ion Ratio Lower Upper

168 100

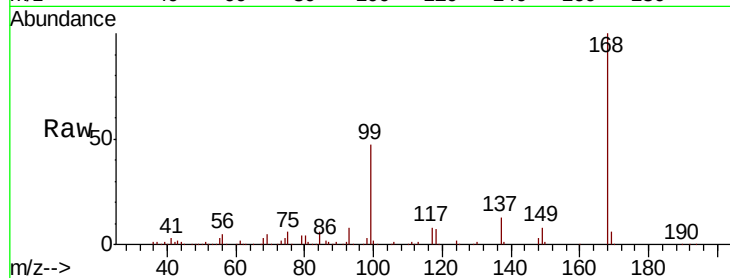
99 47.2 38.5 57.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

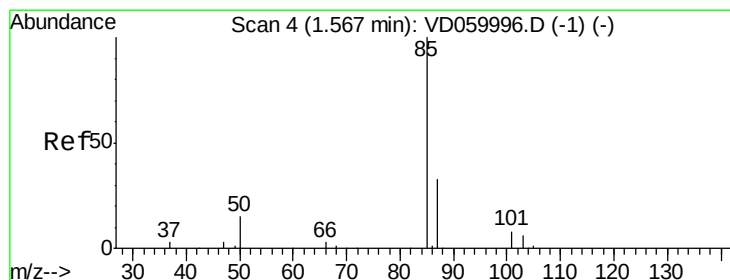
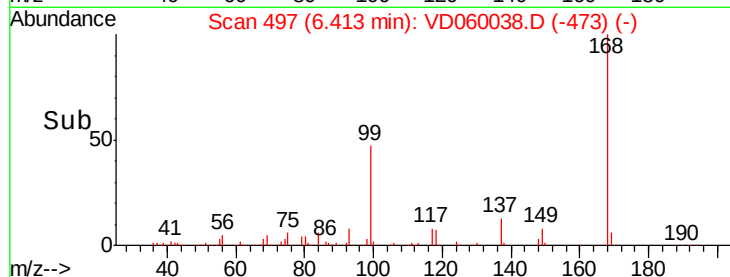
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.746 ug/l

RT: 1.58 min Scan# 6

Delta R.T. 0.01 min

Lab File: VD060038.D

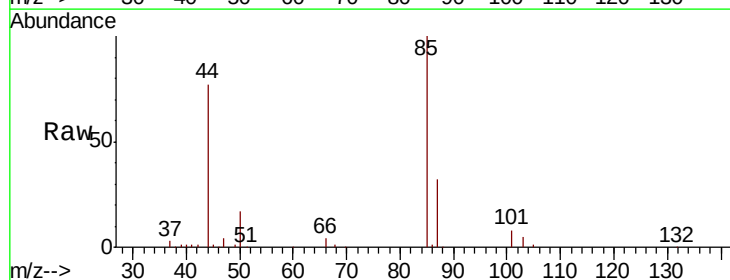
Acq: 19 Sep 2018 12:03

Tgt Ion: 85 Resp: 321700

Ion Ratio Lower Upper

85 100

87 32.5 16.4 49.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

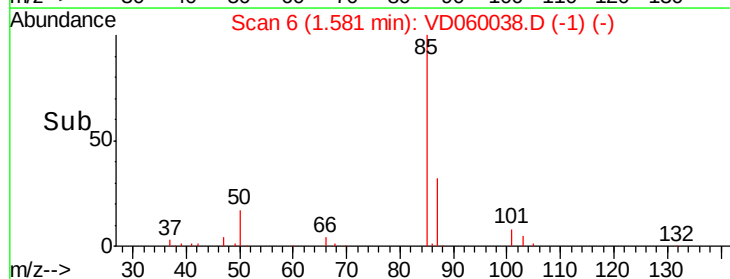
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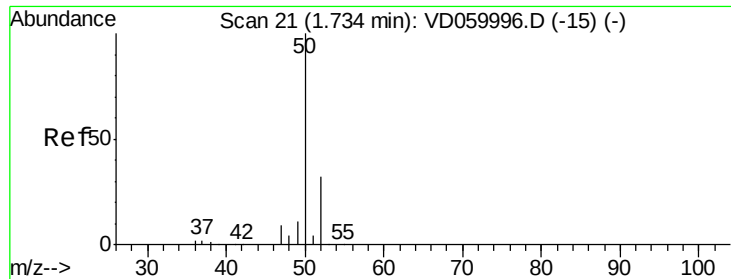
100000

50000

0

Time-->





#3

Chloromethane

Concen: 21.688 ug/l

RT: 1.75 min Scan# 23

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 50 Resp: 328755

Ion Ratio Lower Upper

50 100

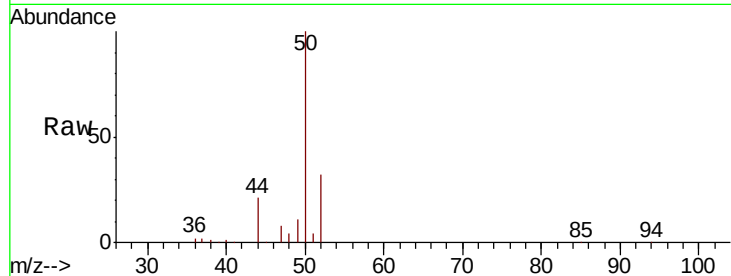
52 32.4 25.4 38.2

Manual Integrations

APPROVED

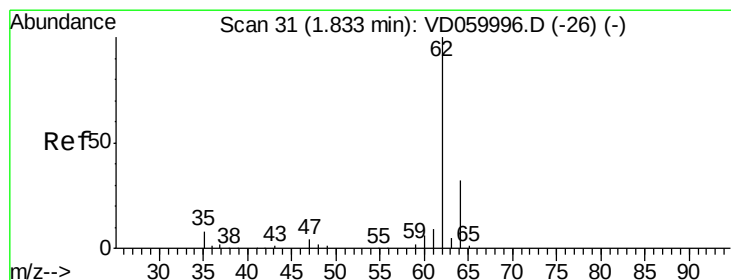
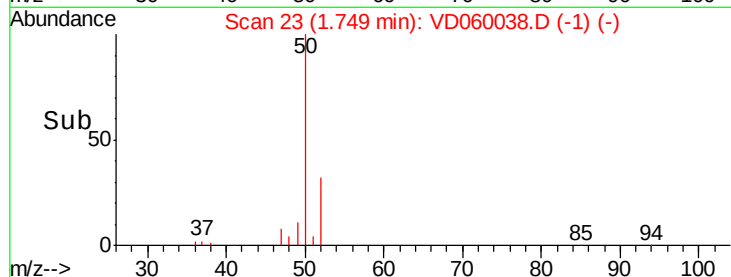
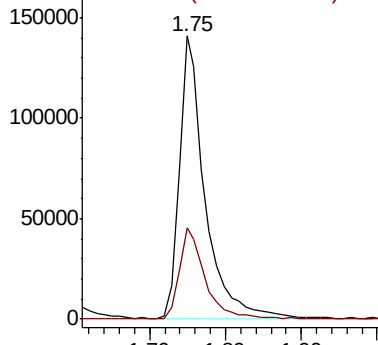
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.443 ug/l

RT: 1.85 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD060038.D

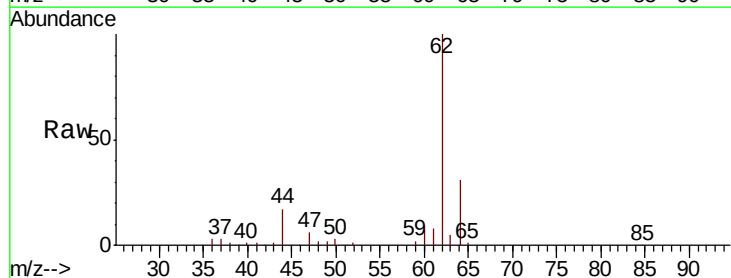
Acq: 19 Sep 2018 12:03

Tgt Ion: 62 Resp: 249116

Ion Ratio Lower Upper

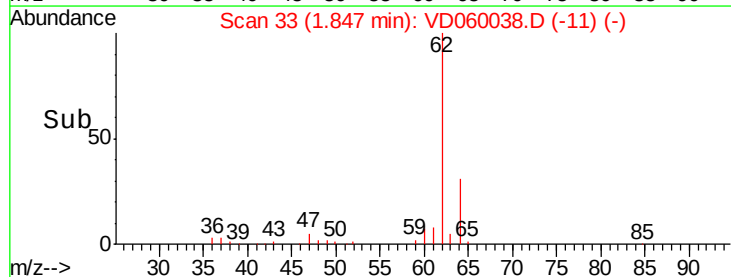
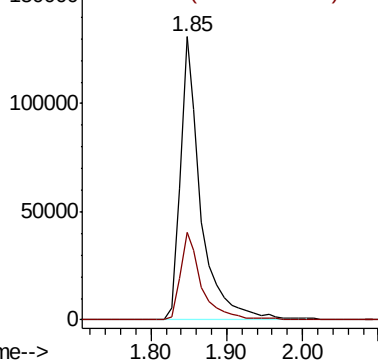
62 100

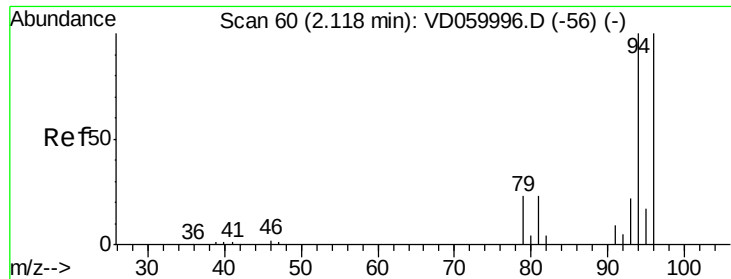
64 31.1 25.5 38.3



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 14.440 ug/l

RT: 2.13 min Scan# 62

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 94 Resp: 20828

Ion Ratio Lower Upper

94 100

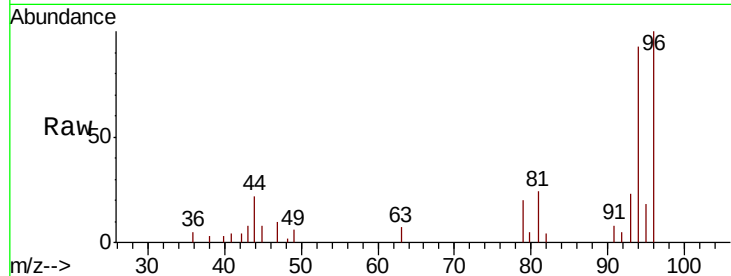
96 107.8 79.8 119.8

Manual Integrations

APPROVED

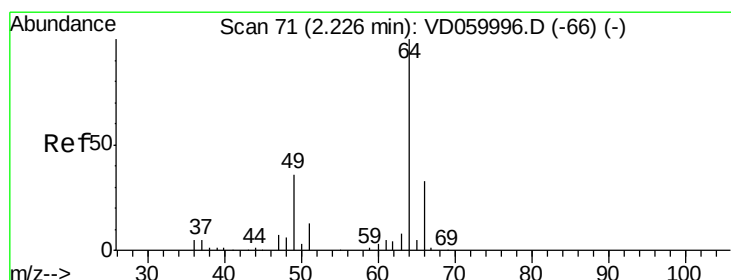
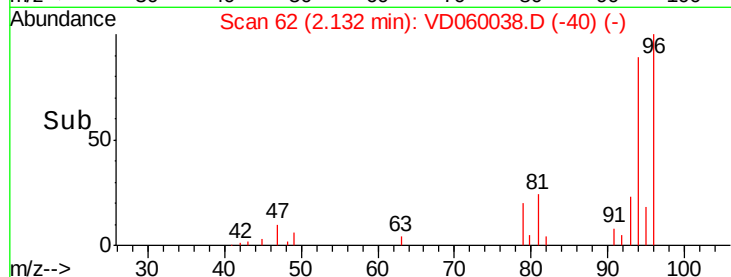
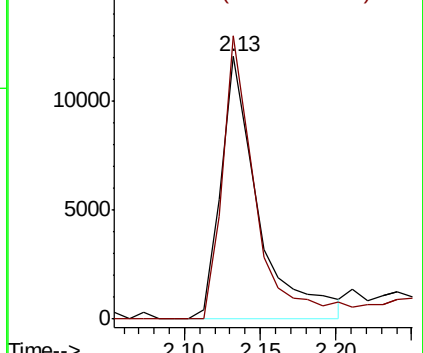
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 22.246 ug/l

RT: 2.24 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD060038.D

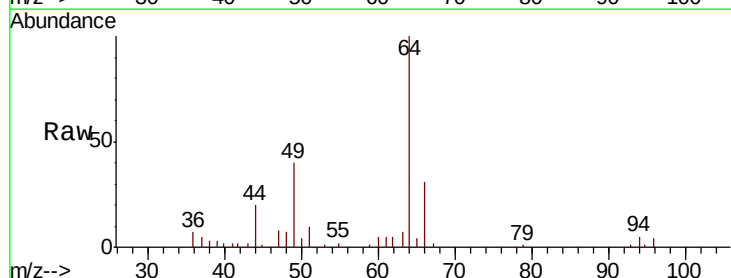
Acq: 19 Sep 2018 12:03

Tgt Ion: 64 Resp: 60606

Ion Ratio Lower Upper

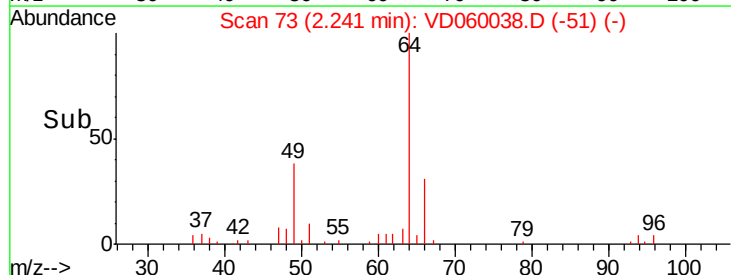
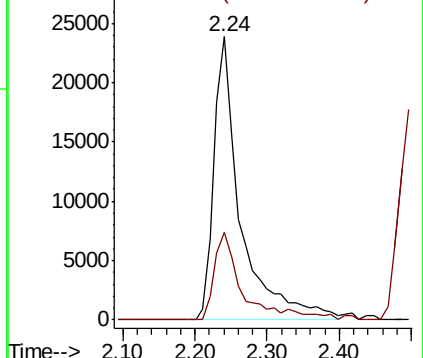
64 100

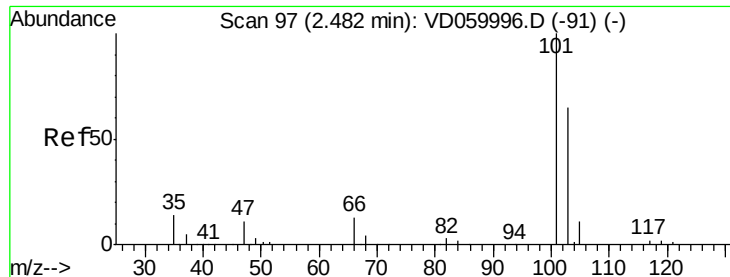
66 30.8 26.5 39.7



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

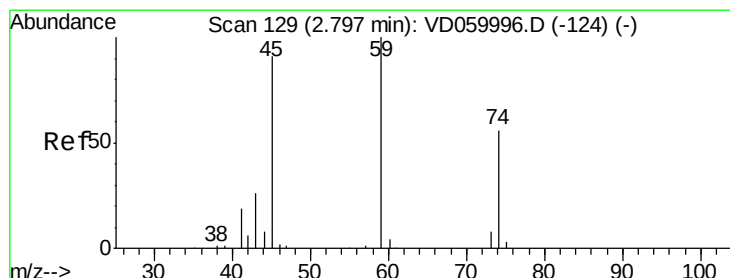
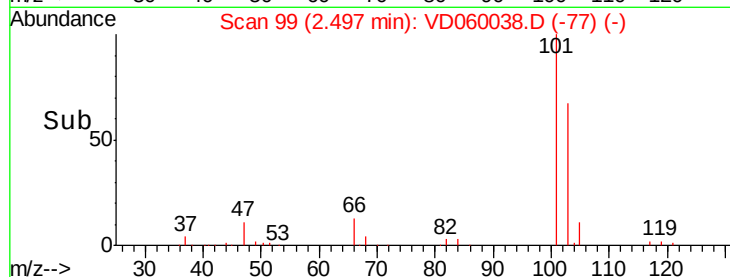
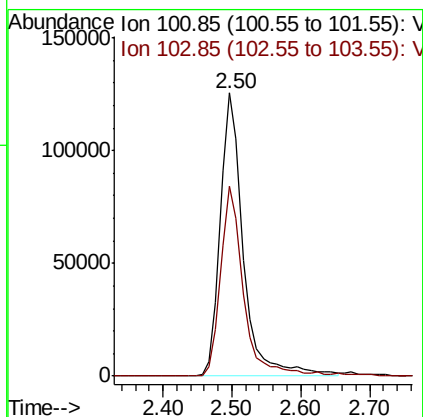
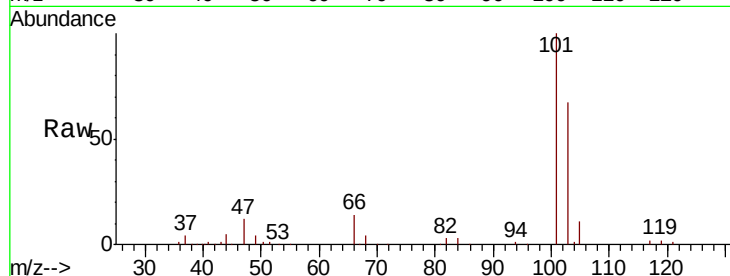
Trichlorofluoromethane
 Concen: 21.762 ug/l
 RT: 2.50 min Scan# 99
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion:101 Resp: 291966
 Ion Ratio Lower Upper
 101 100
 103 66.9 51.6 77.4

Manual Integrations
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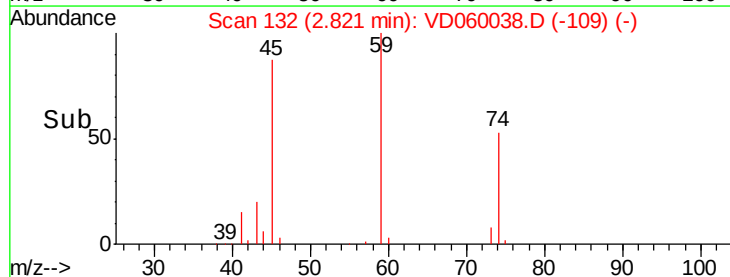
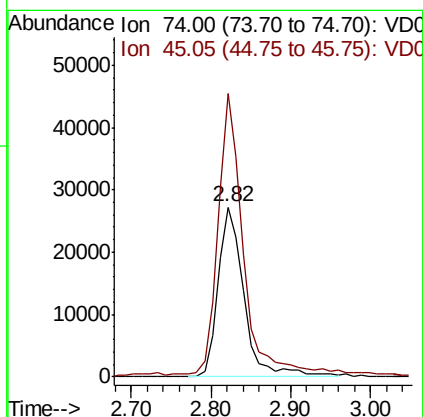
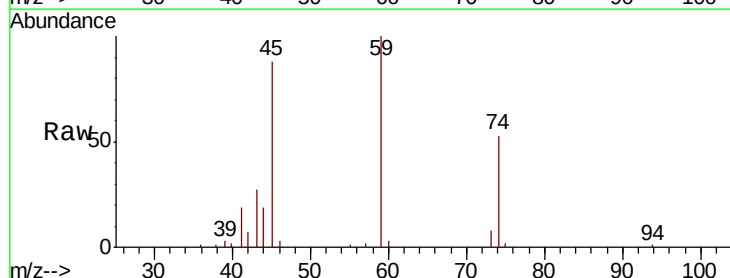
MMDadoda
 9/21/2018 5:02:14 PM

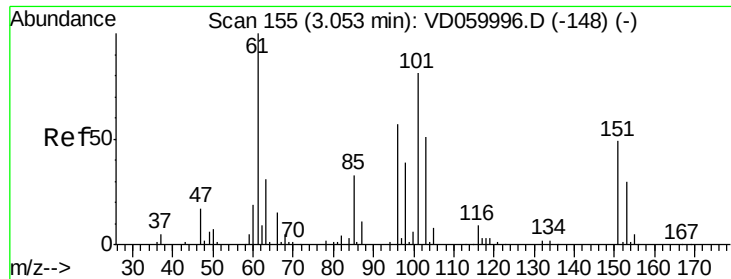


#8

Diethyl Ether
 Concen: 21.947 ug/l
 RT: 2.82 min Scan# 132
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion: 74 Resp: 62592
 Ion Ratio Lower Upper
 74 100
 45 166.5 81.2 243.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.482 ug/l

RT: 3.08 min Scan# 158

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

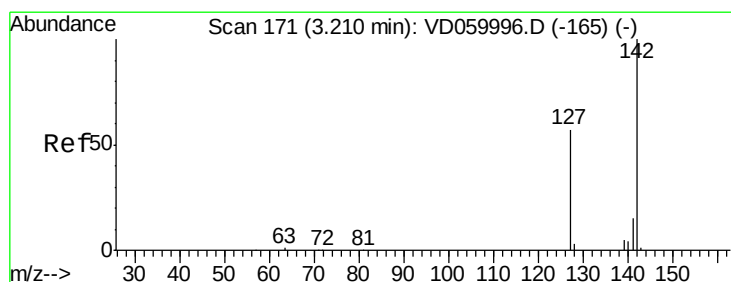
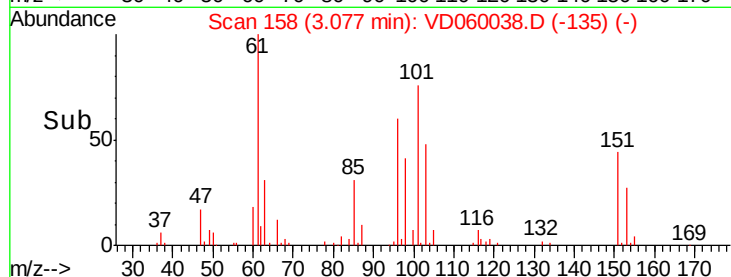
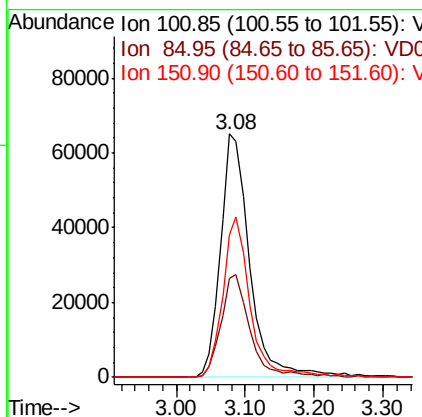
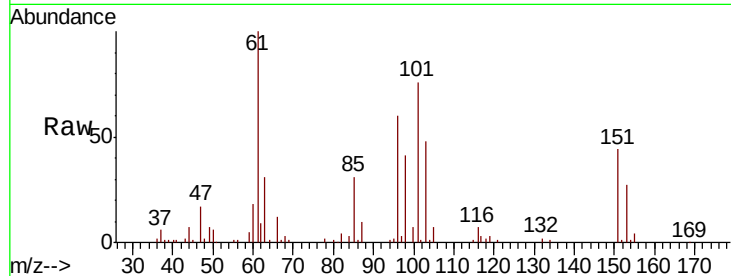
ClientSampleId :

VD0919SBS01

Tot Ion:	101	Resp:	190196
Ion Ratio	Lower	Upper	
101	100		
85	40.7	33.1	49.7
151	58.3	48.2	72.4

Manual Integrations
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#10

Methyl Iodide

Concen: 20.095 ug/l

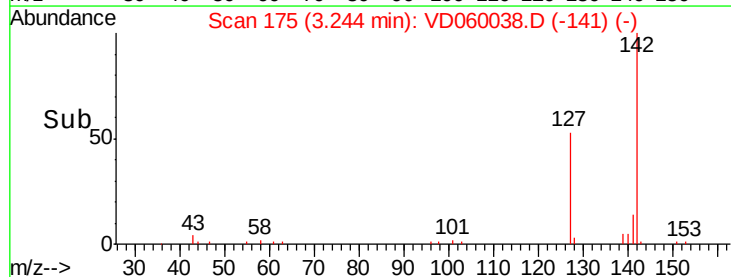
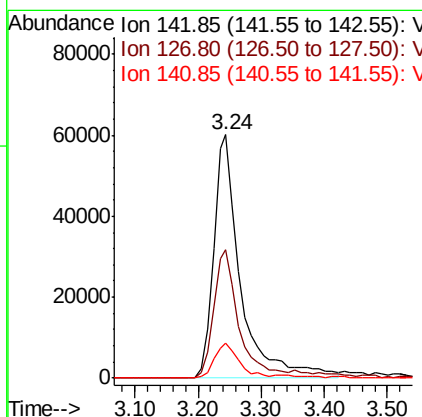
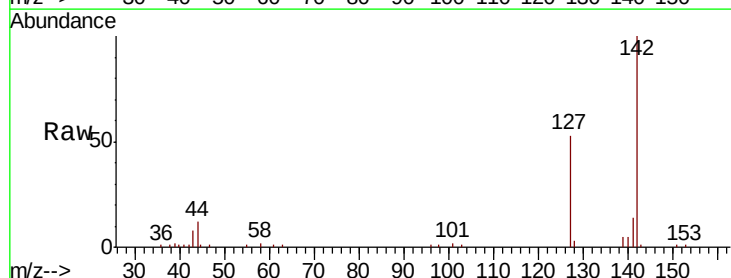
RT: 3.24 min Scan# 175

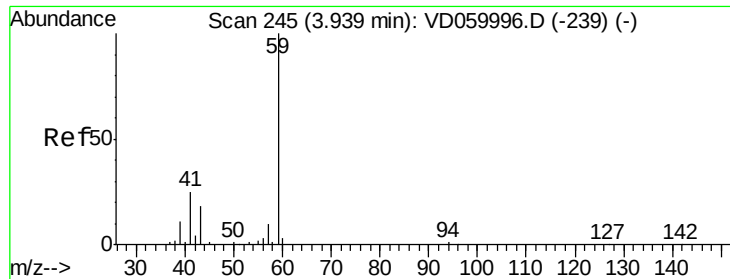
Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion:	142	Resp:	180054
Ion Ratio	Lower	Upper	
142	100		
127	52.6	45.8	68.8
141	14.4	12.2	18.4





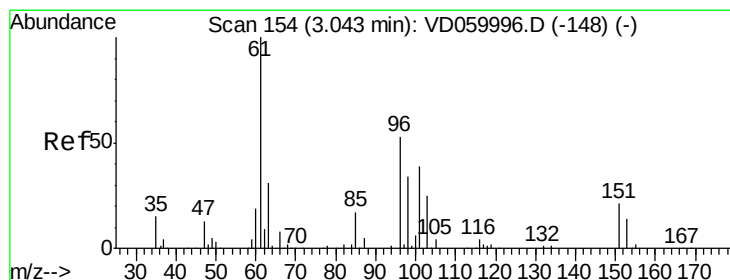
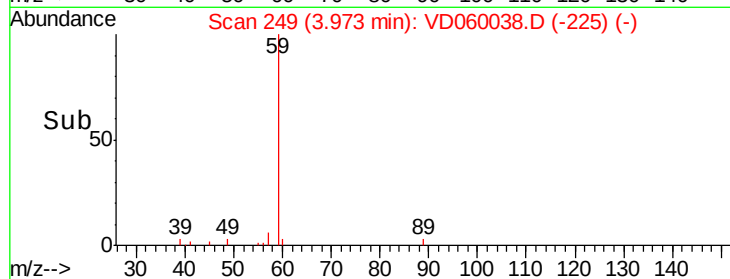
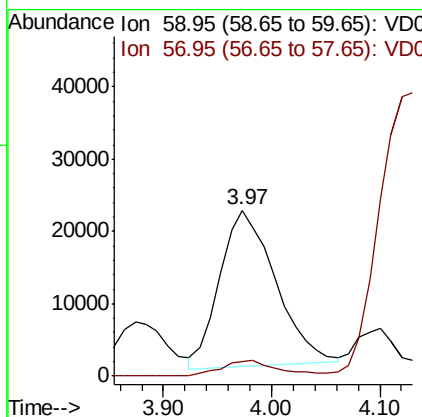
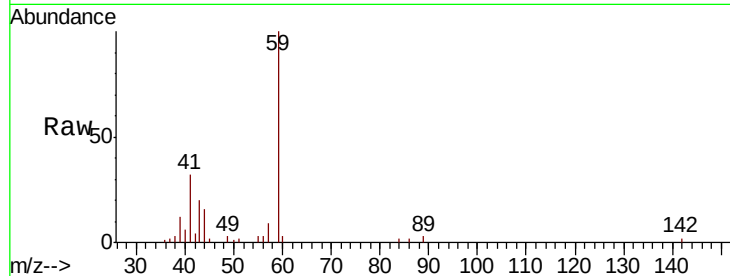
#11
Tert butyl alcohol
Concen: 75.775 ug/l
RT: 3.97 min Scan# 249
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion: 59 Resp: 77517
Ion Ratio Lower Upper
59 100
57 8.8 7.4 11.2

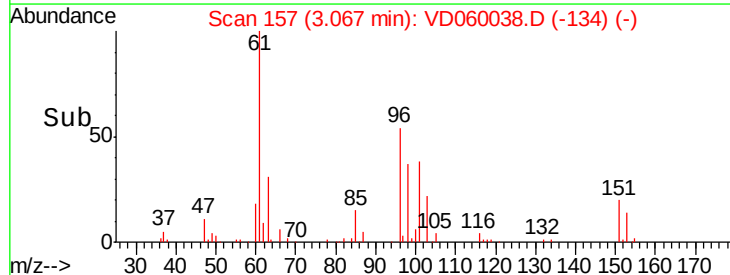
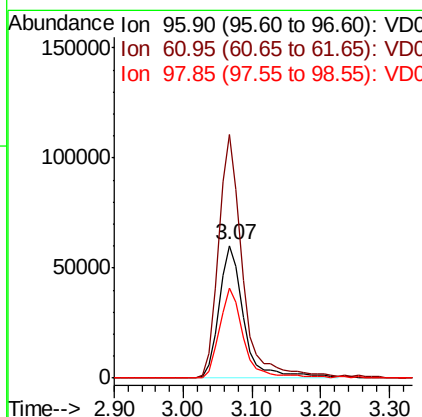
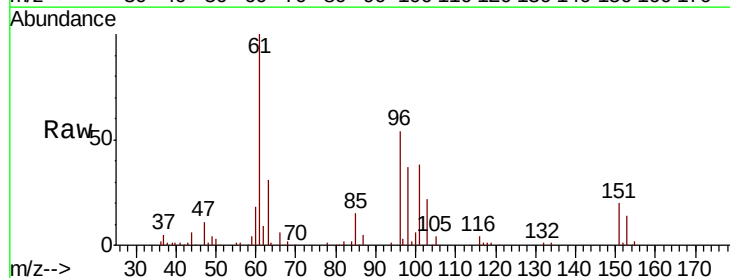
Manual Integrations
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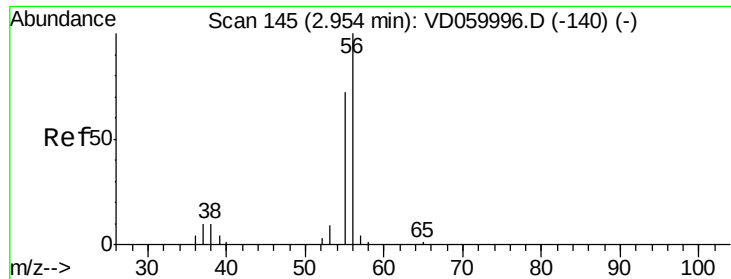
MMDadoda
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#12
1,1-Dichloroethene
Concen: 22.311 ug/l
RT: 3.07 min Scan# 157
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion: 96 Resp: 149243
Ion Ratio Lower Upper
96 100
61 183.8 149.8 224.6
98 67.7 50.2 75.4





#13

Acrolein

Concen: 86.309 ug/l

RT: 2.98 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 56 Resp: 54677

Ion Ratio Lower Upper

56 100

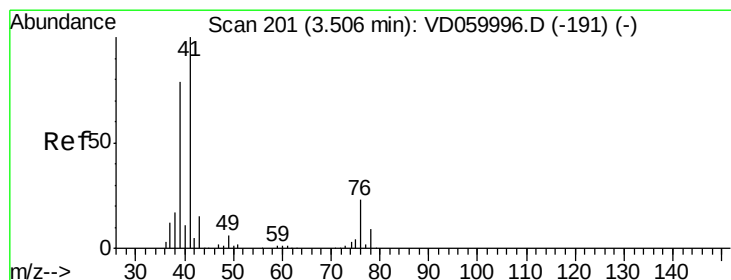
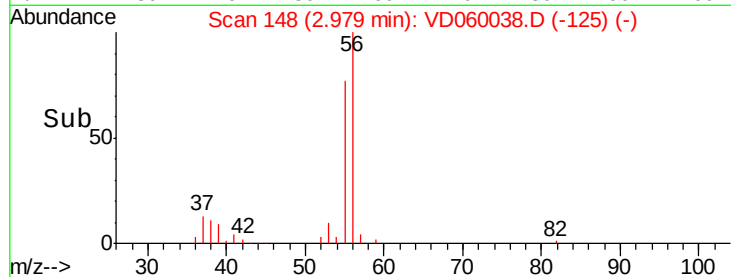
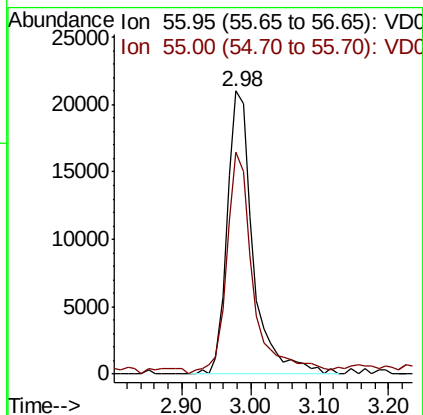
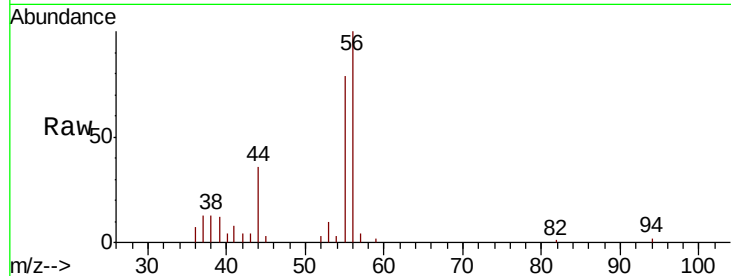
55 78.5 58.3 87.5

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 20.643 ug/l

RT: 3.53 min Scan# 204

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

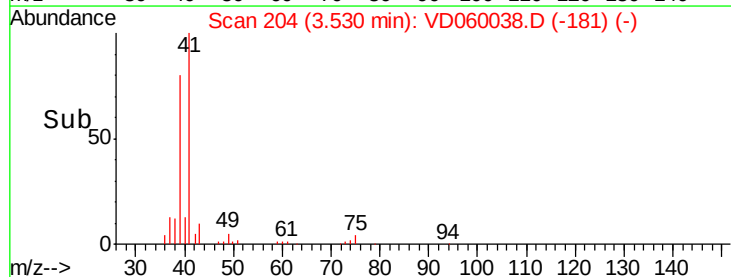
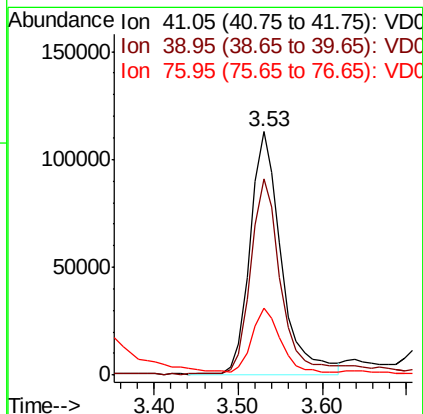
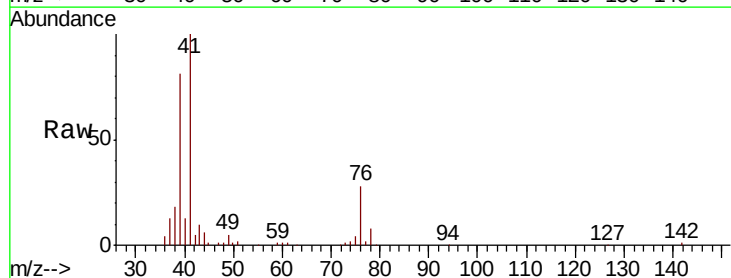
Tgt Ion: 41 Resp: 291218

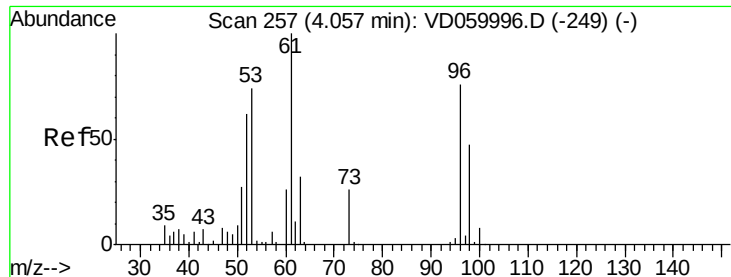
Ion Ratio Lower Upper

41 100

39 80.7 63.6 95.4

76 27.6 21.1 31.7





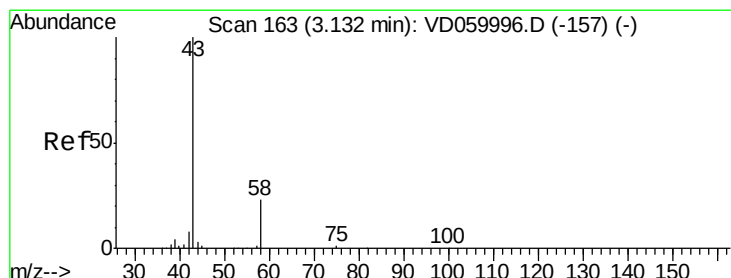
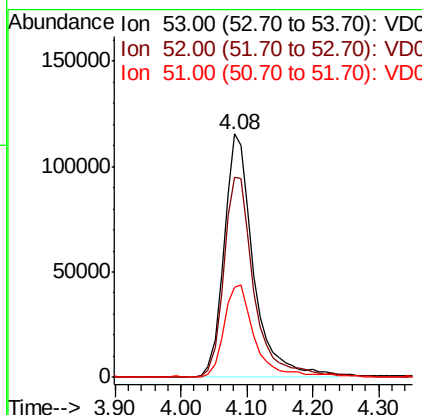
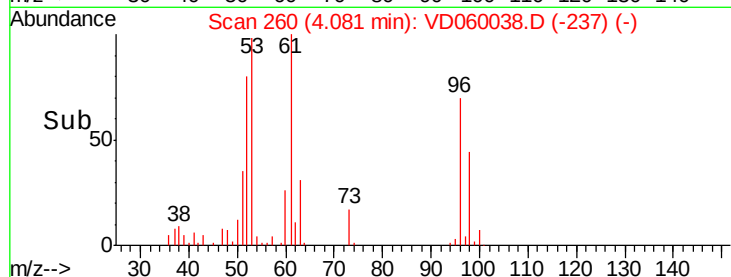
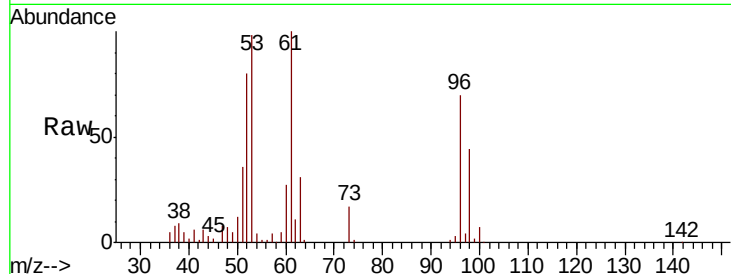
#15
 Acrylonitrile
 Concen: 93.900 ug/l
 RT: 4.08 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	53	Ratio	Lower	Upper
53	100			
52	82.0	66.7	100.1	
51	36.9	29.0	43.6	

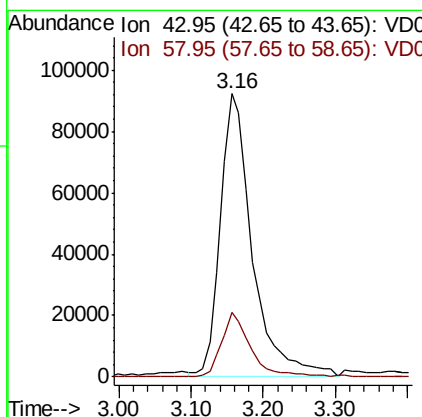
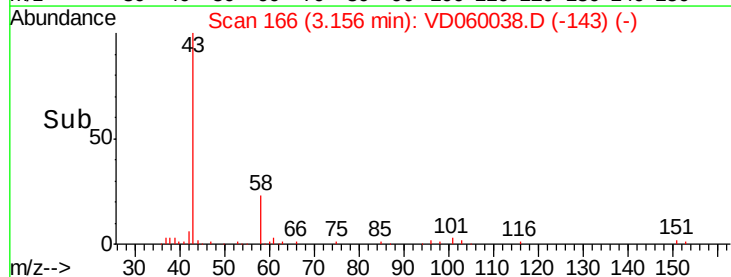
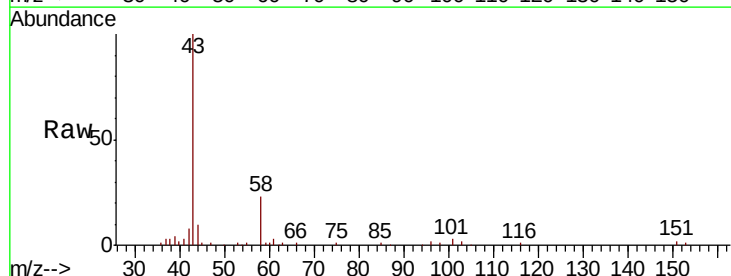
Manual Integrations
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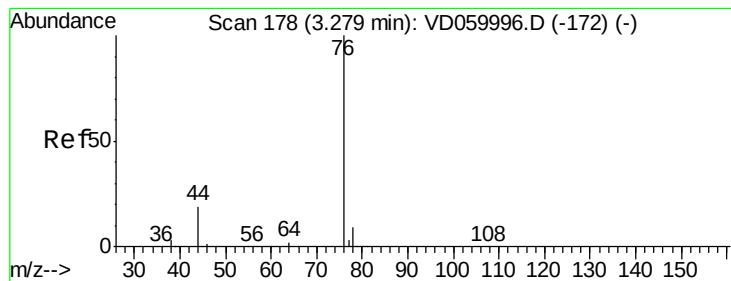
MMDadoda
 9/21/2018 5:02:14 PM



#16
 Acetone
 Concen: 115.798 ug/l
 RT: 3.16 min Scan# 166
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	43	Ratio	Lower	Upper
43	100			
58	22.8	18.1	27.1	





#17

Carbon Disulfide

Concen: 20.735 ug/l

RT: 3.31 min Scan# 182

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 76 Resp: 477899

Ion Ratio Lower Upper

76 100

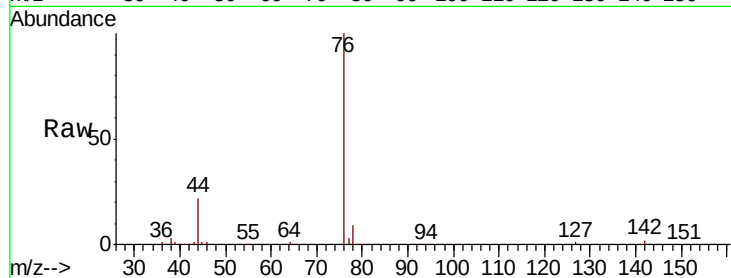
78 9.0 7.0 10.4

Manual Integrations

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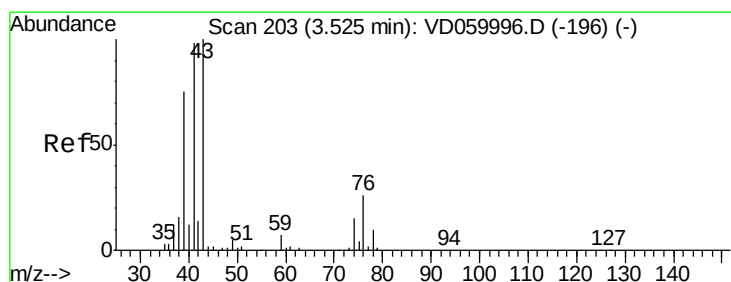
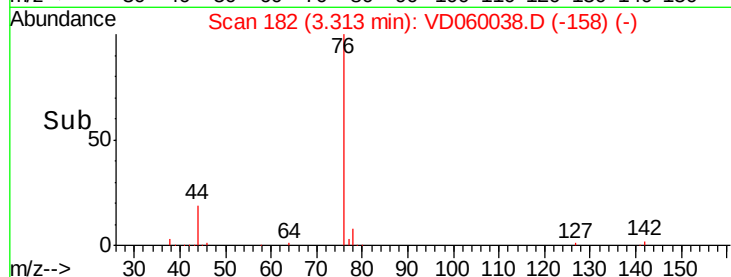
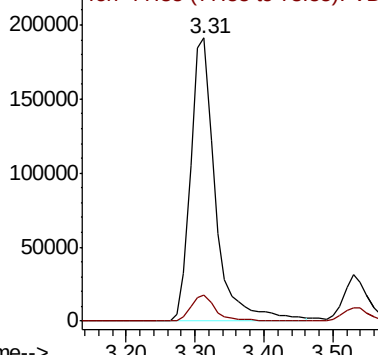
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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 19.091 ug/l

RT: 3.56 min Scan# 207

Delta R.T. 0.03 min

Lab File: VD060038.D

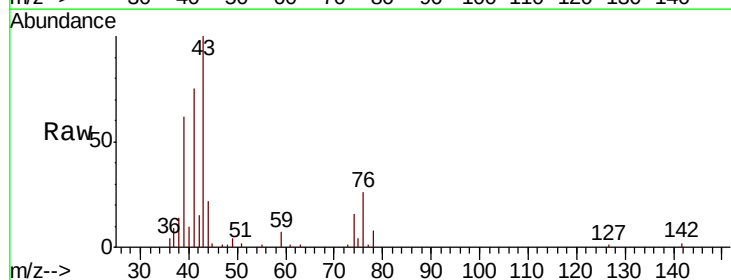
Acq: 19 Sep 2018 12:03

Tgt Ion: 43 Resp: 95037

Ion Ratio Lower Upper

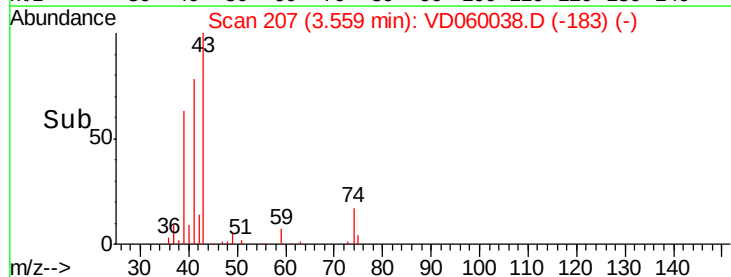
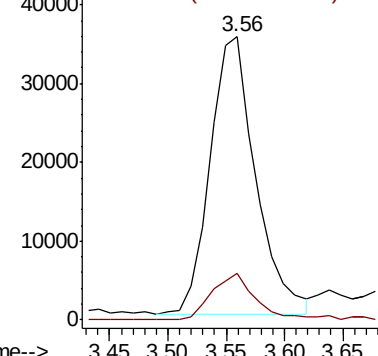
43 100

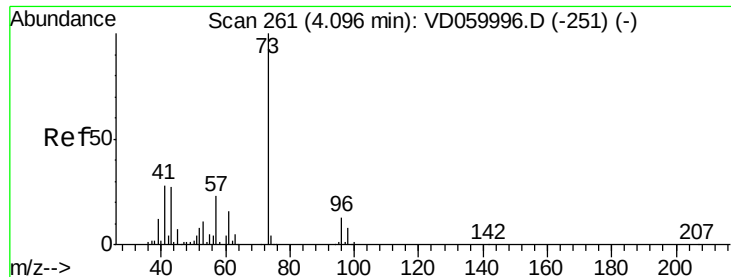
74 16.5 11.8 17.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

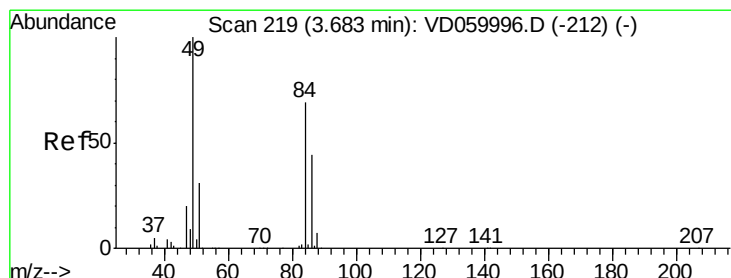
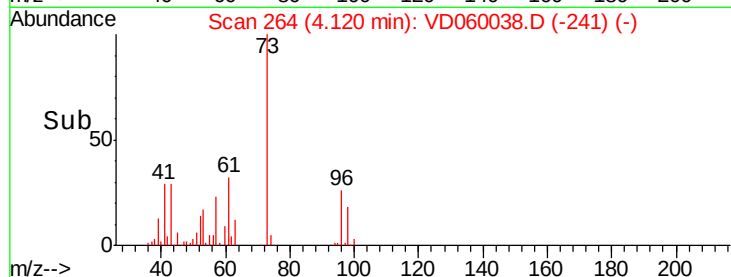
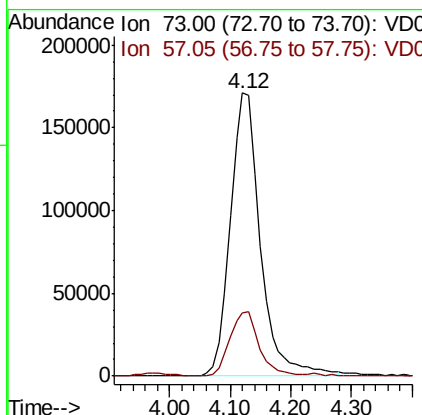
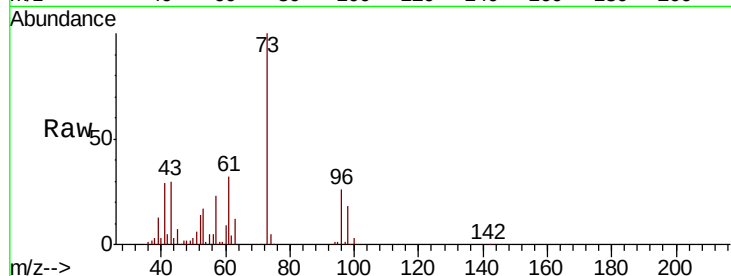
Methyl tert-butyl Ether
 Concen: 19.117 ug/l
 RT: 4.12 min Scan# 264
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.4	27.6

Manual Integrations
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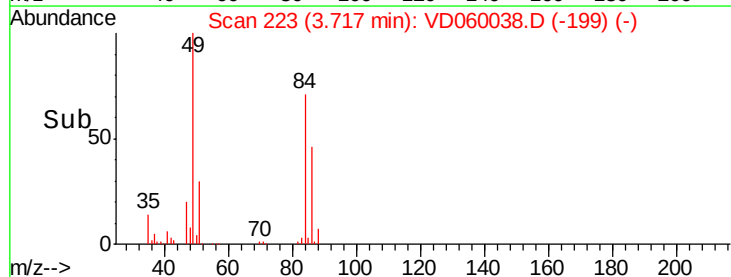
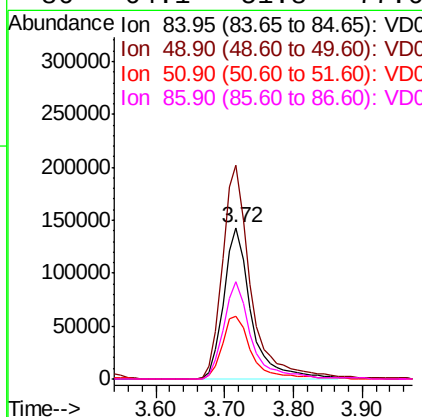
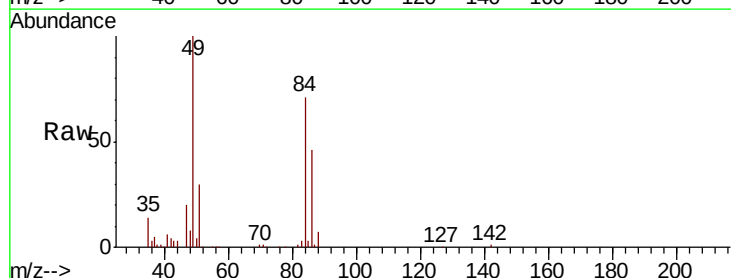
MMDadoda
 9/21/2018 5:02:14 PM

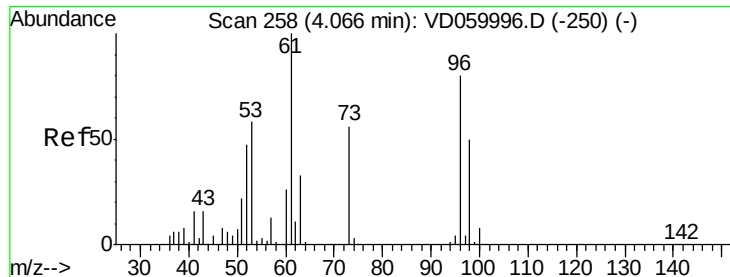


#20

Methylene Chloride
 Concen: 18.123 ug/l
 RT: 3.72 min Scan# 223
 Delta R.T. 0.03 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.8	116.6	175.0
51	41.6	35.9	53.9
86	64.1	51.8	77.6





#21

trans-1,2-Dichloroethene

Concen: 19.954 ug/l

RT: 4.10 min Scan# 262

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 96 Resp: 350277

Ion Ratio Lower Upper

96 100

61 124.9 100.1 150.1

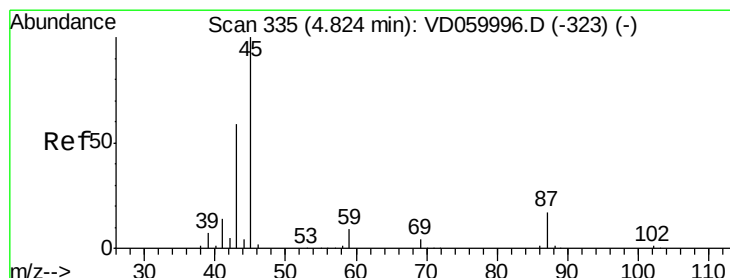
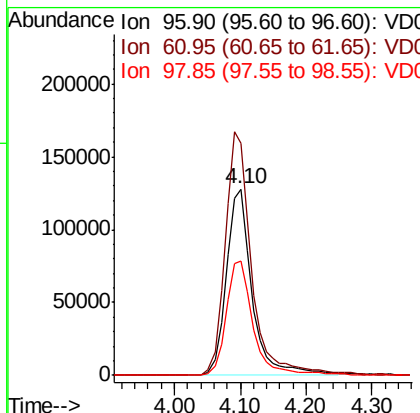
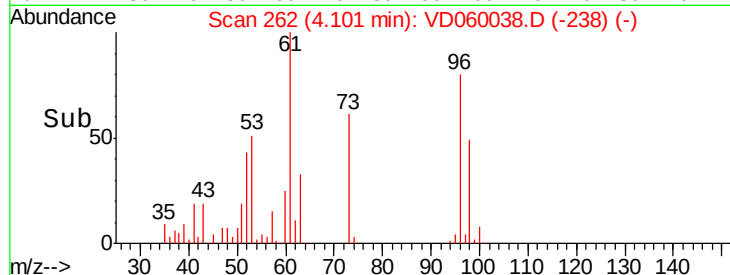
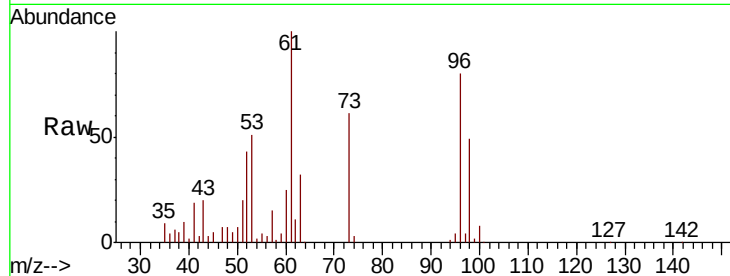
98 61.6 49.5 74.3

Manual Integrations

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#22

Diisopropyl ether

Concen: 19.717 ug/l

RT: 4.86 min Scan# 339

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion: 45 Resp: 1268787

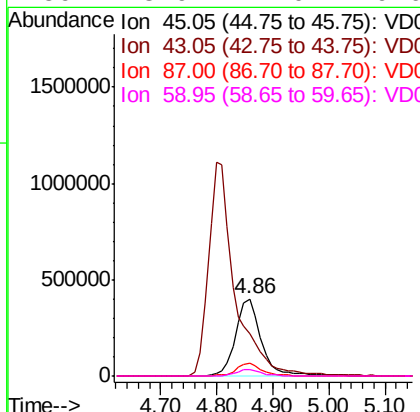
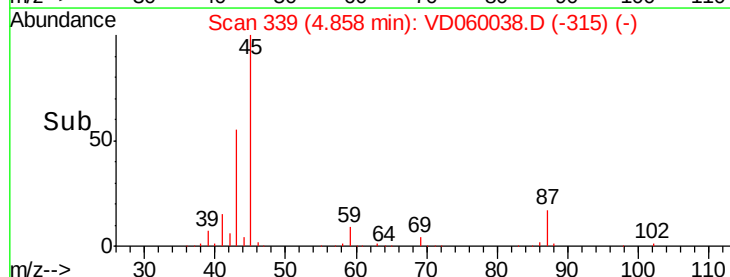
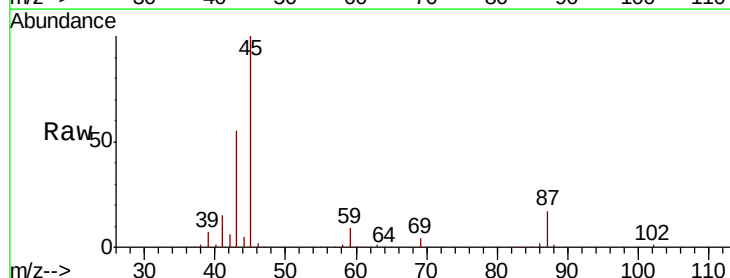
Ion Ratio Lower Upper

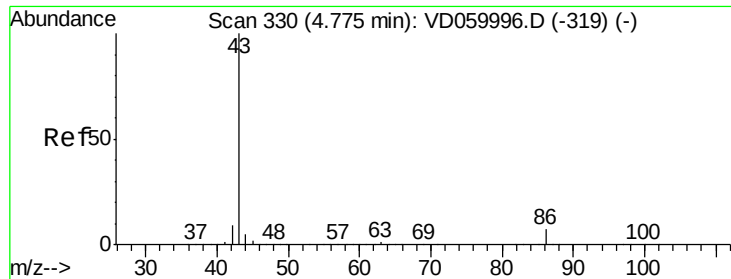
45 100

43 55.3 47.1 70.7

87 16.8 14.2 21.2

59 8.9 7.0 10.6





#23

Vinyl Acetate

Concen: 99.693 ug/l

RT: 4.80 min Scan# 333

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 43 Resp: 3634312

Ion Ratio Lower Upper

43 100

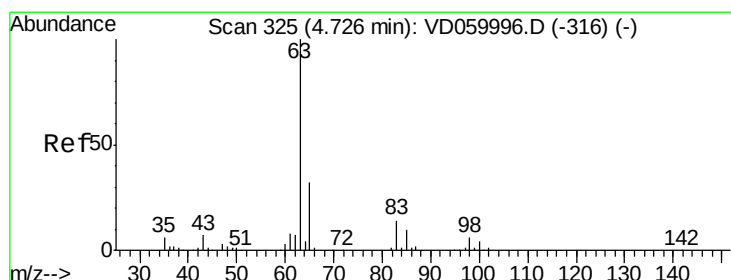
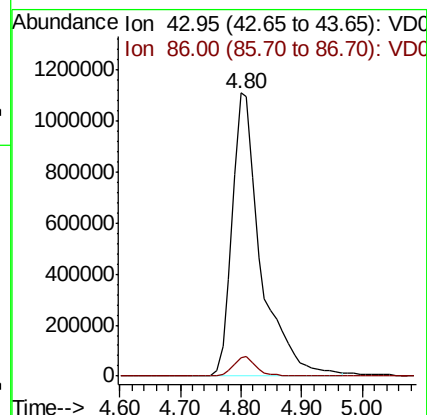
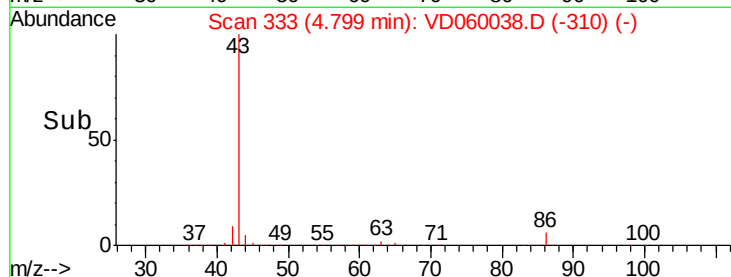
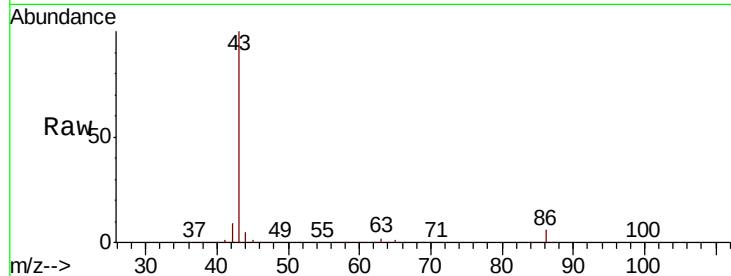
86 6.3 5.5 8.3

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 20.347 ug/l

RT: 4.76 min Scan# 329

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

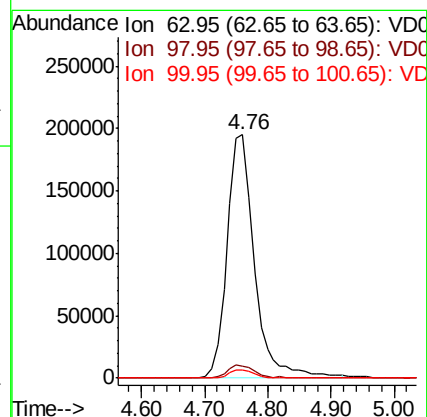
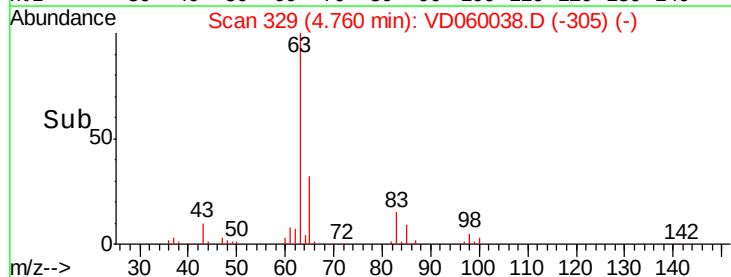
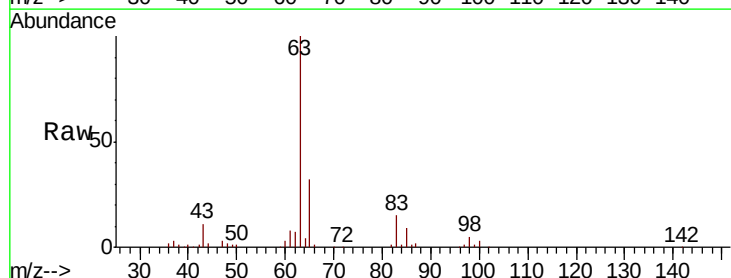
Tgt Ion: 63 Resp: 587564

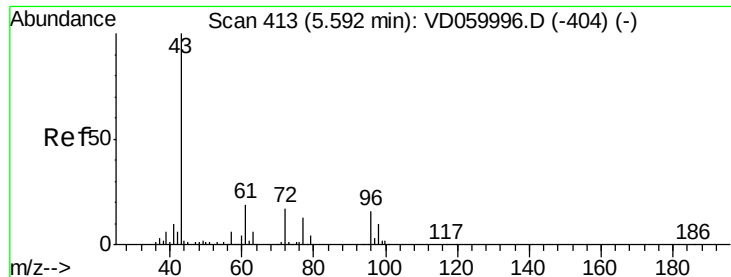
Ion Ratio Lower Upper

63 100

98 5.1 2.9 8.6

100 3.4 1.8 5.4





#25

2-Butanone

Concen: 106.287 ug/l

RT: 5.63 min Scan# 417

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 43 Resp: 702040

Ion Ratio Lower Upper

43 100

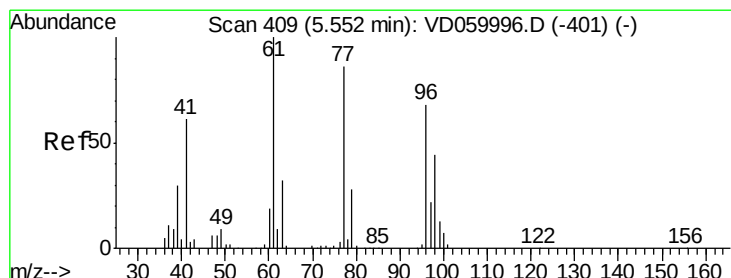
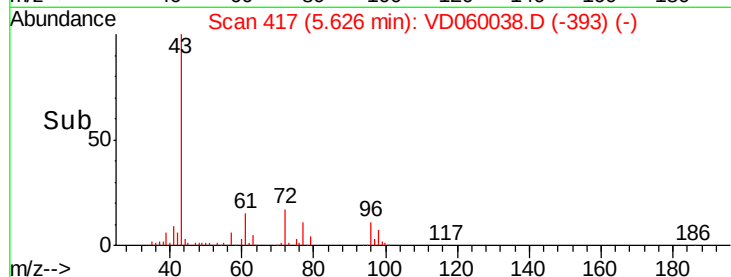
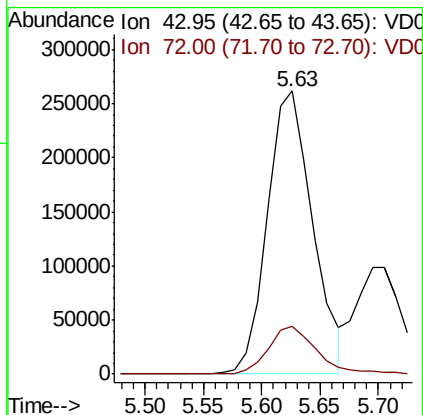
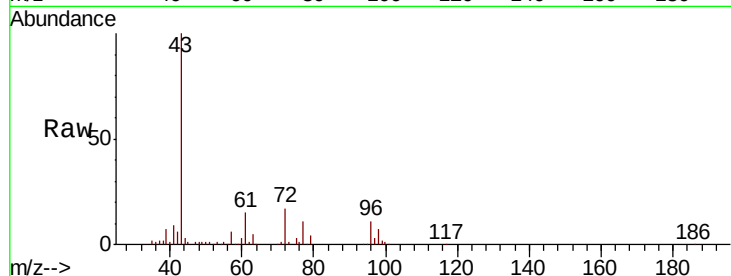
72 17.0 13.6 20.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 21.349 ug/l

RT: 5.59 min Scan# 413

Delta R.T. 0.03 min

Lab File: VD060038.D

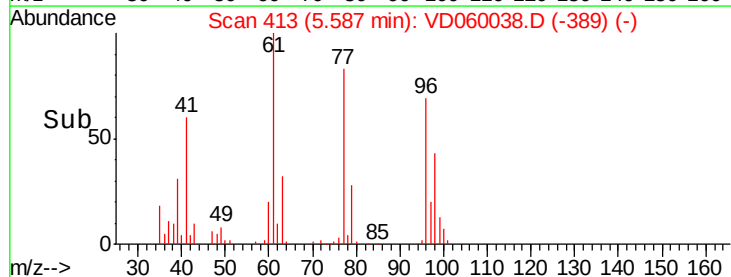
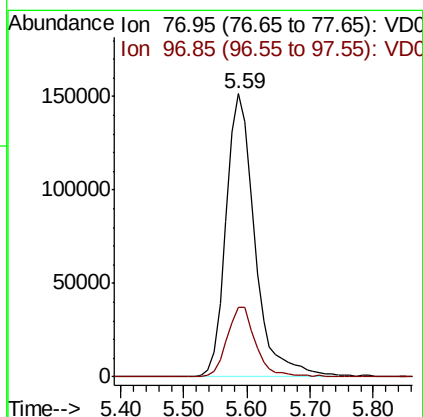
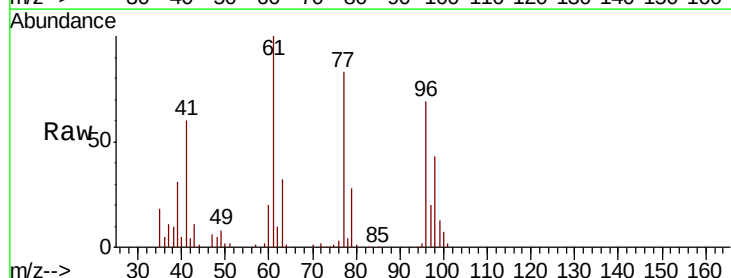
Acq: 19 Sep 2018 12:03

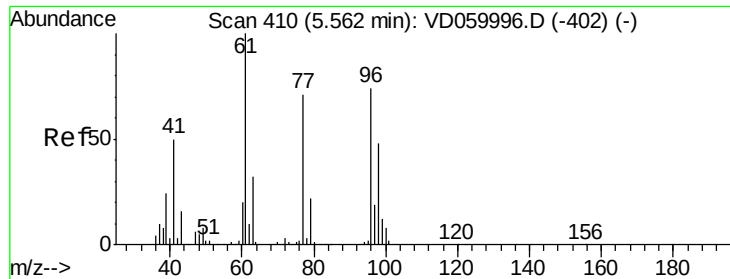
Tgt Ion: 77 Resp: 479299

Ion Ratio Lower Upper

77 100

97 24.4 12.7 38.1





#27

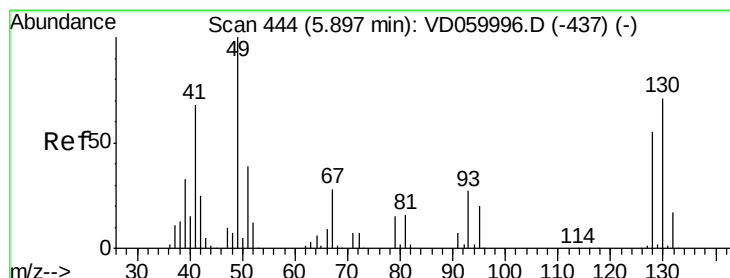
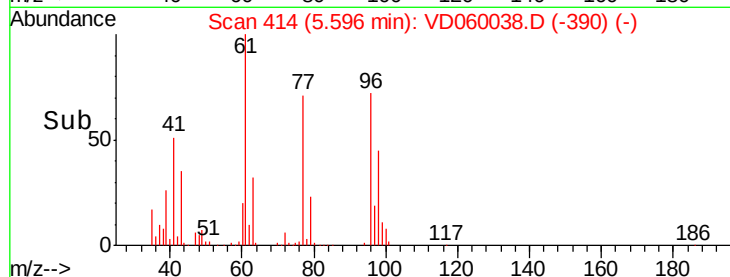
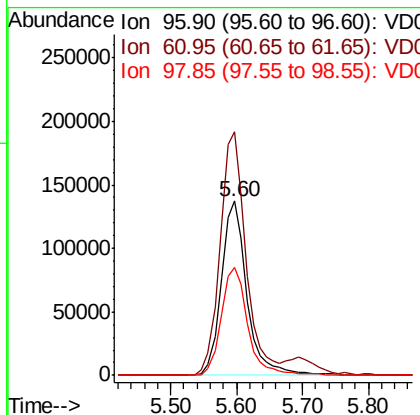
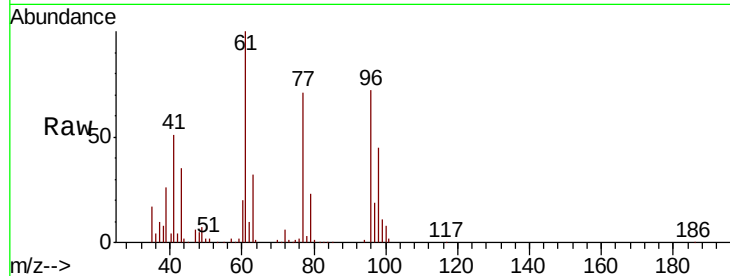
cis-1,2-Dichloroethene
Concen: 20.315 ug/l
RT: 5.60 min Scan# 414
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	139.6	0.0	269.6	
98	62.1	0.0	128.4	

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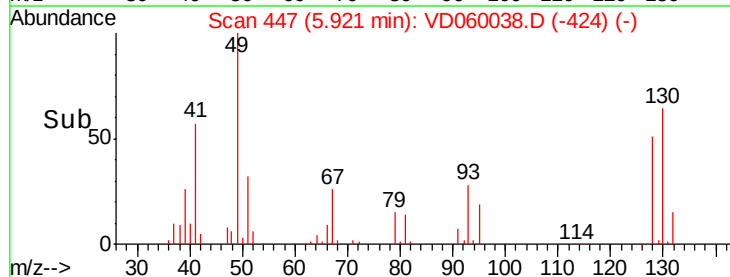
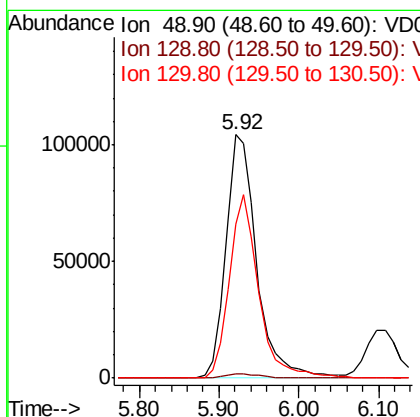
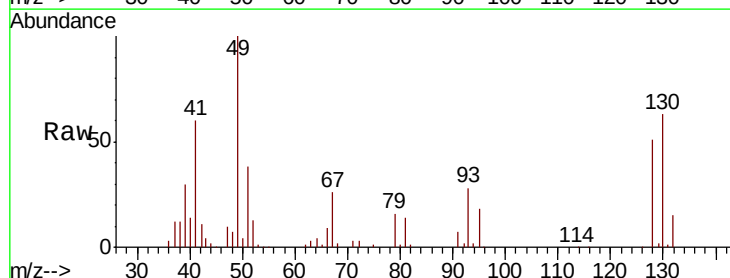
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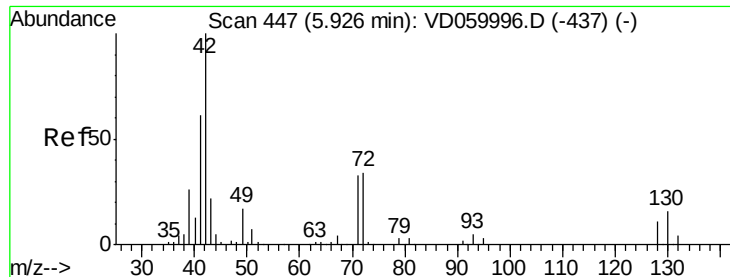


#28

Bromochloromethane
Concen: 20.345 ug/l
RT: 5.92 min Scan# 447
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.6	0.0	3.6	
130	63.4	57.1	85.7	





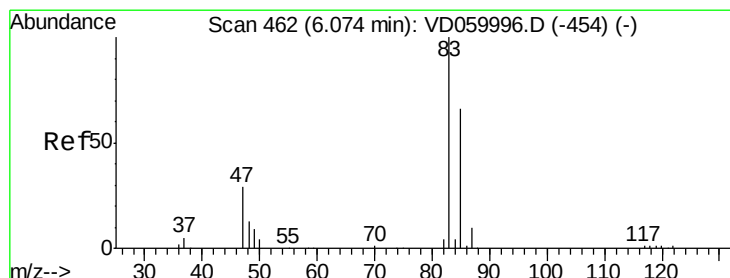
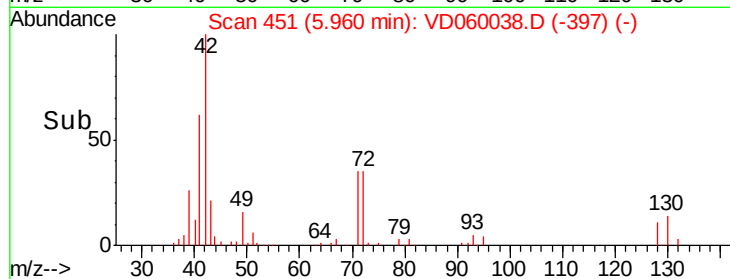
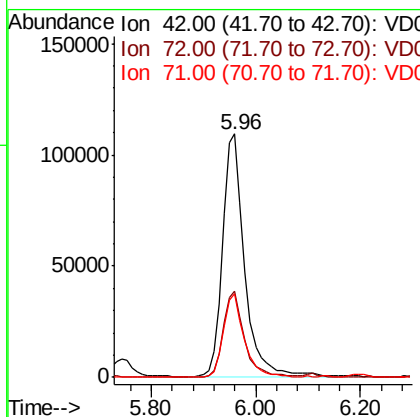
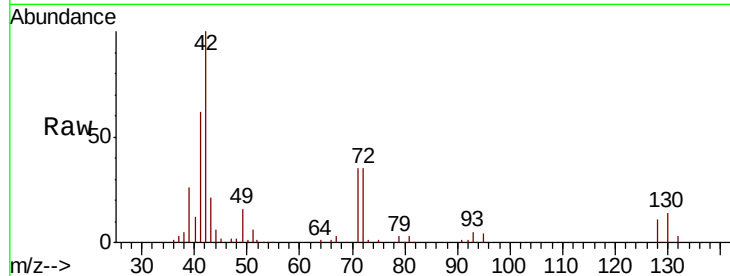
#29
Tetrahydrofuran
Concen: 91.089 ug/l
RT: 5.96 min Scan# 451
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.3	26.9	40.3
71	32.4	26.2	39.4

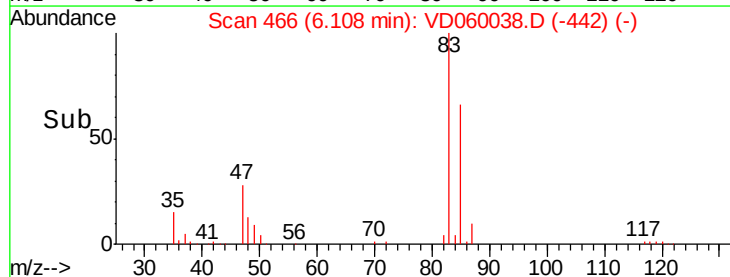
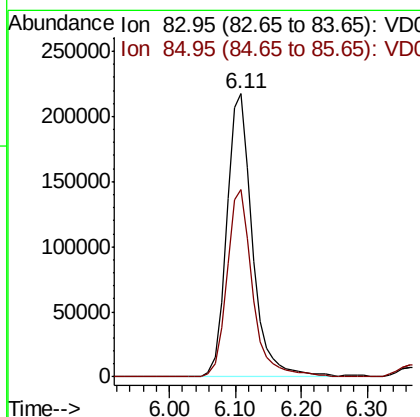
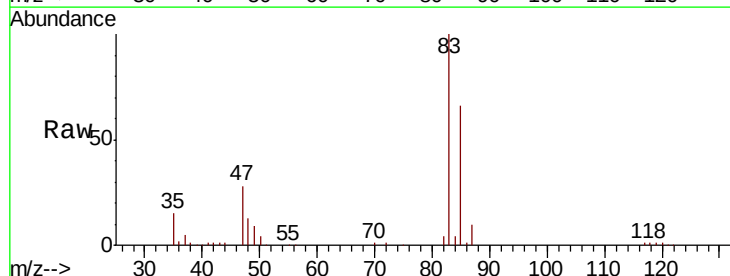
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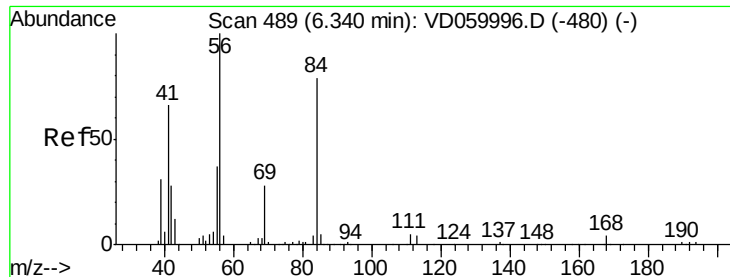
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#30
Chloroform
Concen: 20.214 ug/l
RT: 6.11 min Scan# 466
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.6	78.8





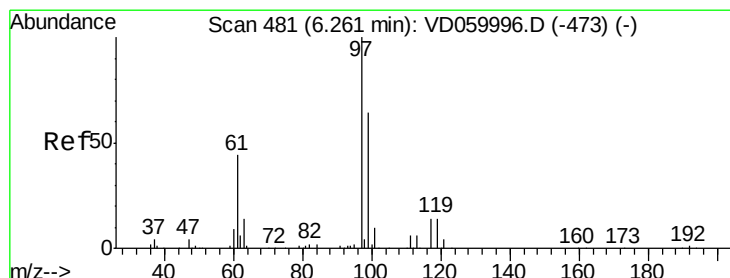
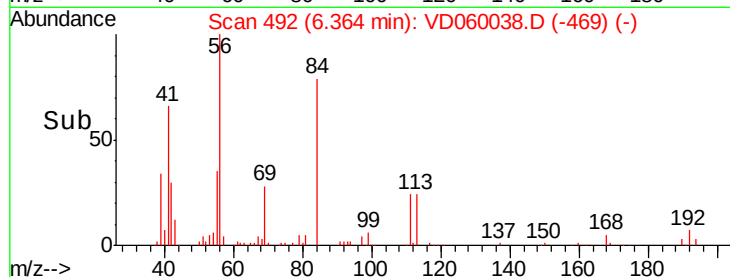
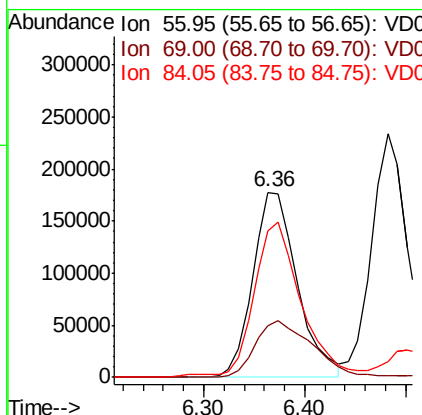
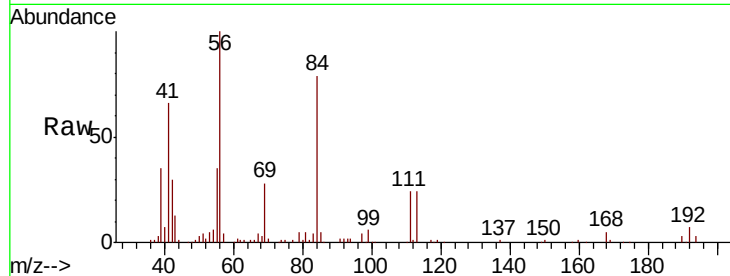
#31
Cyclohexane
Concen: 19.347 ug/l
RT: 6.36 min Scan# 492
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.0	22.7	34.1
84	79.2	64.0	96.0

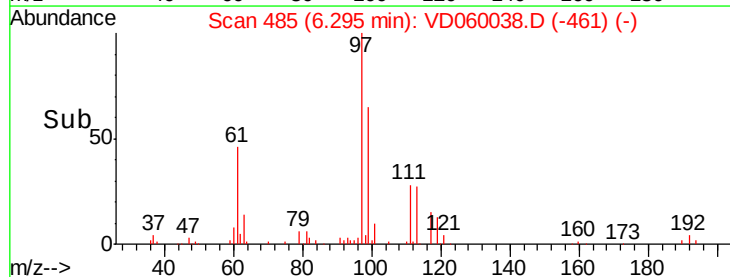
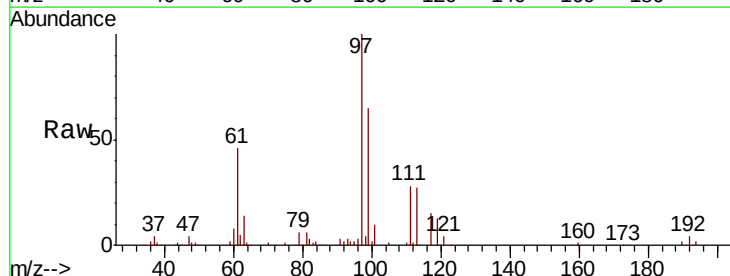
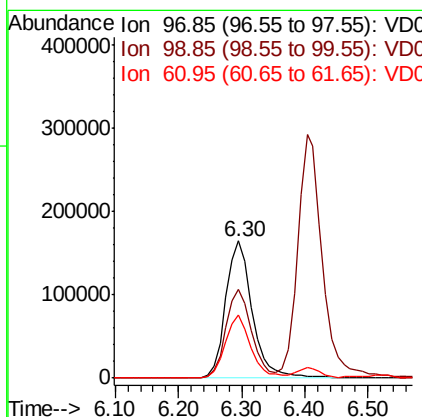
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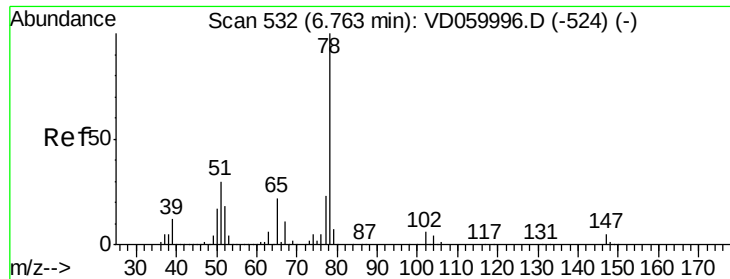
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#32
1,1,1-Trichloroethane
Concen: 19.788 ug/l
RT: 6.30 min Scan# 485
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.3	76.9
61	45.8	35.5	53.3





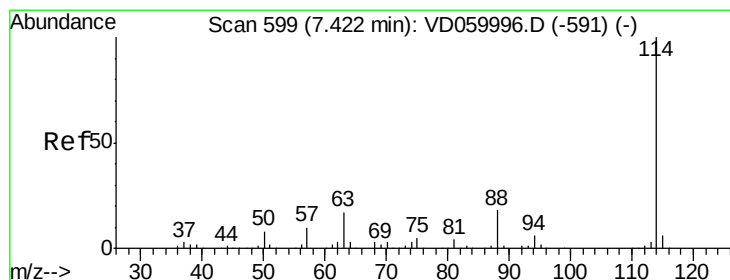
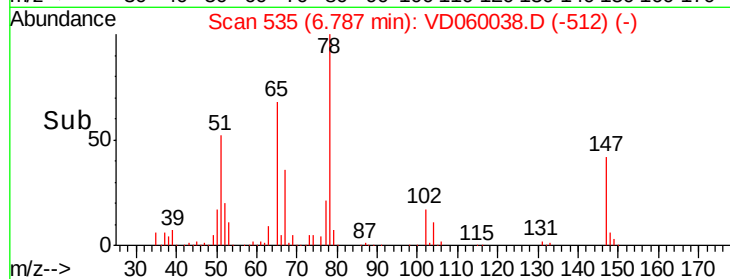
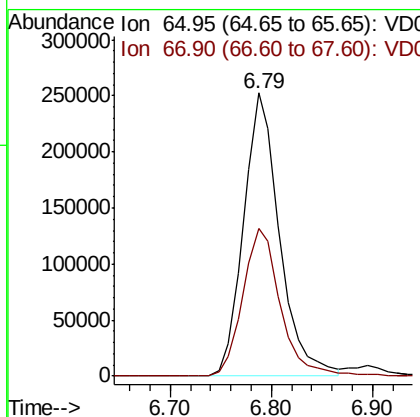
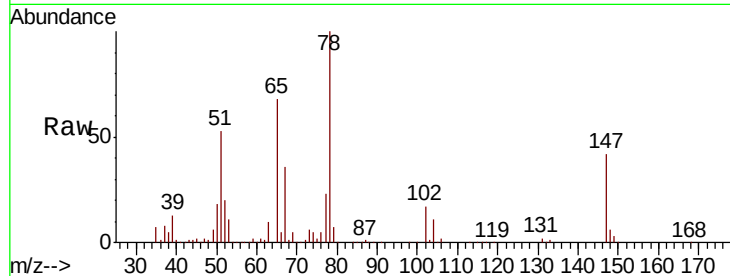
#33
 1,2-Dichloroethane-d4
 Concen: 19.788 ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.3	0.0	104.8	

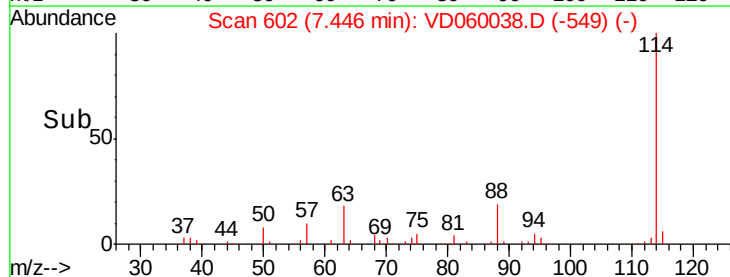
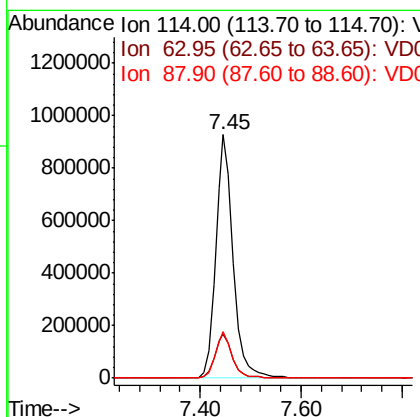
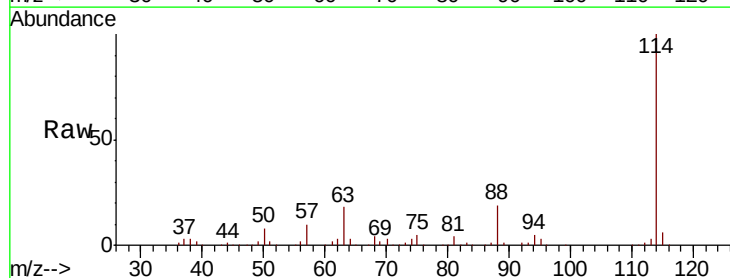
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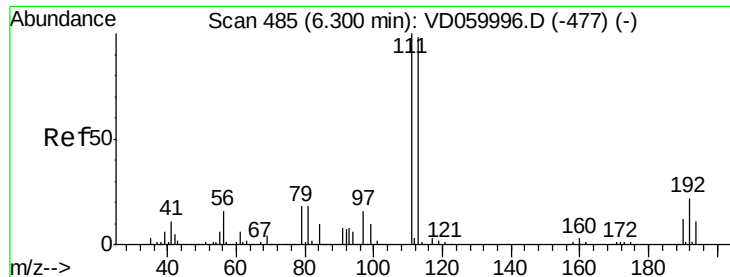
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.3	0.0	34.4	
88	18.9	0.0	35.8	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 488

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

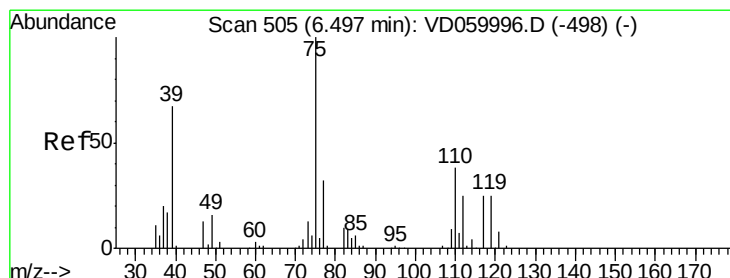
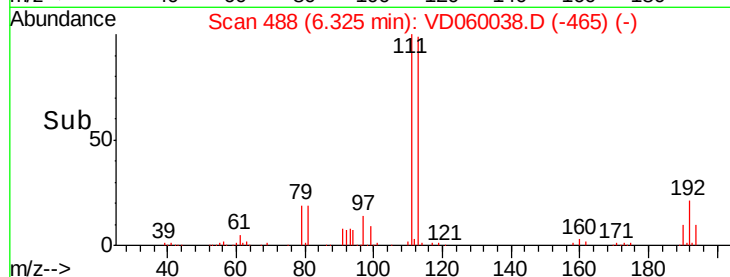
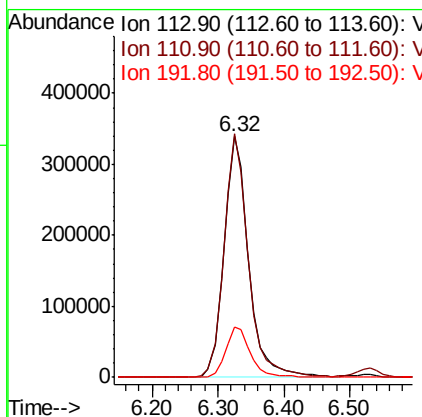
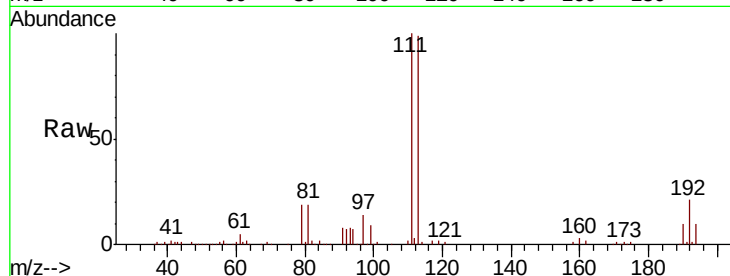
ClientSampleId :

VD0919SBS01

Tot Ion:	113	Resp:	883266
Ion Ratio	Lower	Upper	
113	100		
111	101.1	81.3	121.9
192	20.8	18.1	27.1

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#36

1,1-Dichloropropene

Concen: 20.106 ug/l

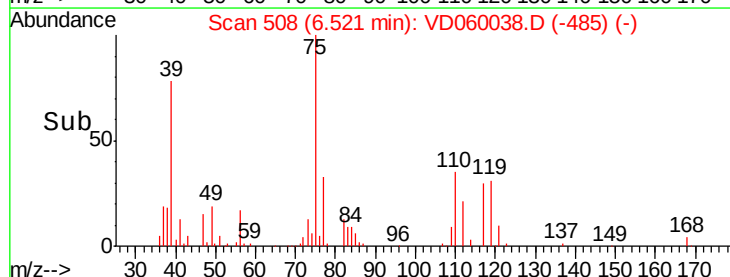
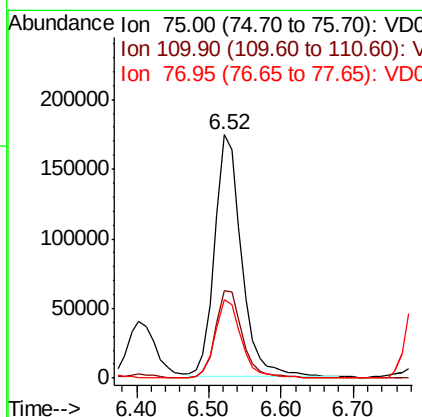
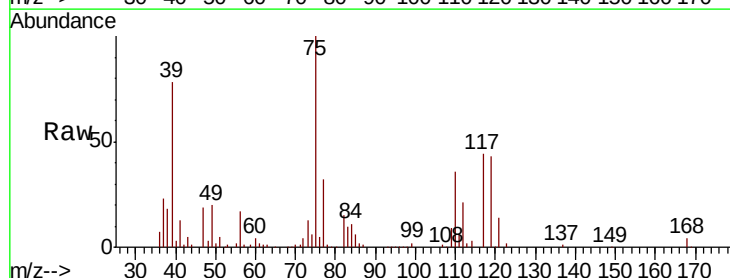
RT: 6.52 min Scan# 508

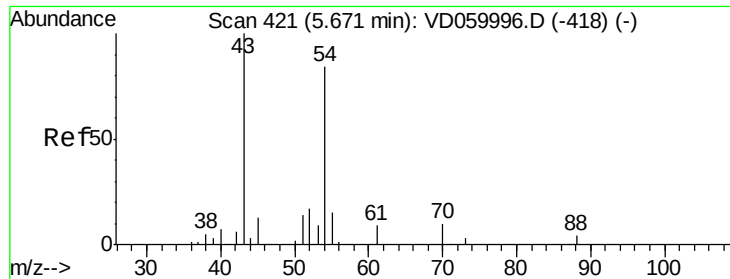
Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion:	75	Resp:	447158
Ion Ratio	Lower	Upper	
75	100		
110	35.7	18.9	56.9
77	32.5	25.3	37.9





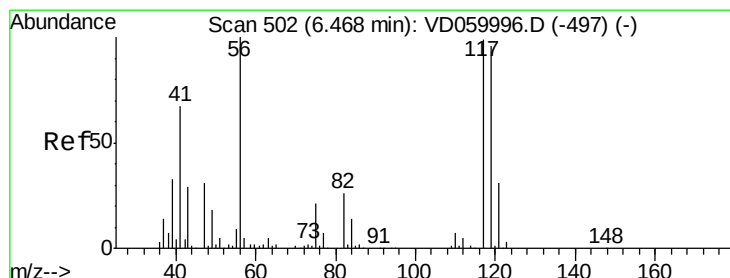
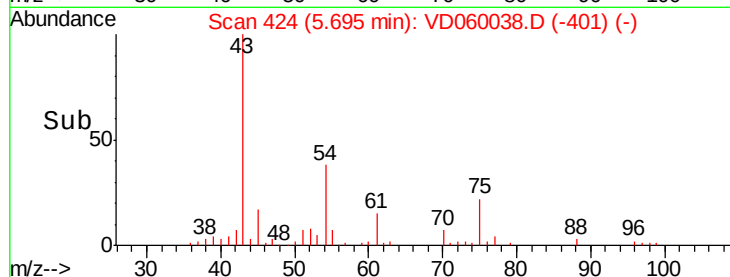
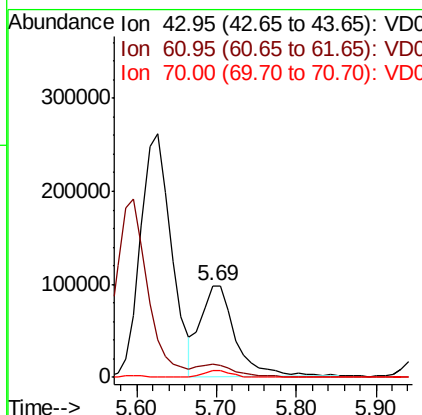
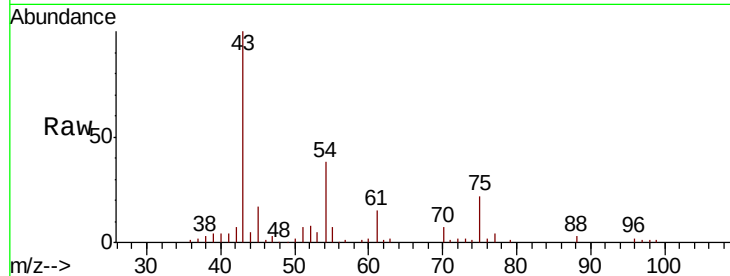
#37
Ethyl Acetate
Concen: 19.225 ug/l
RT: 5.69 min Scan# 424
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.2	15.2
70	7.4	6.1	9.1

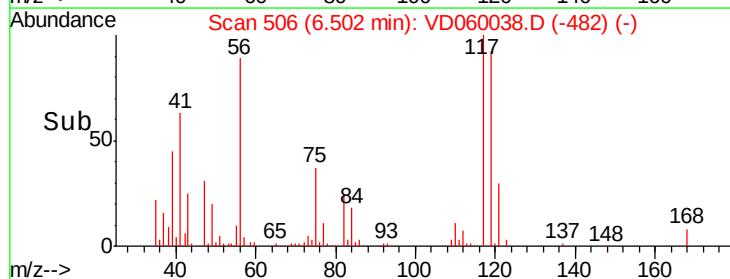
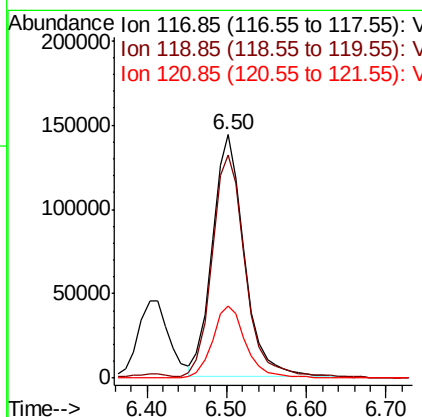
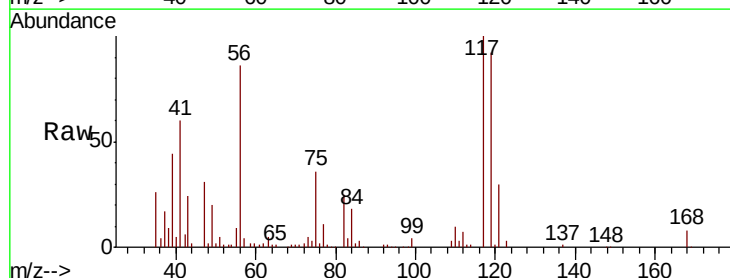
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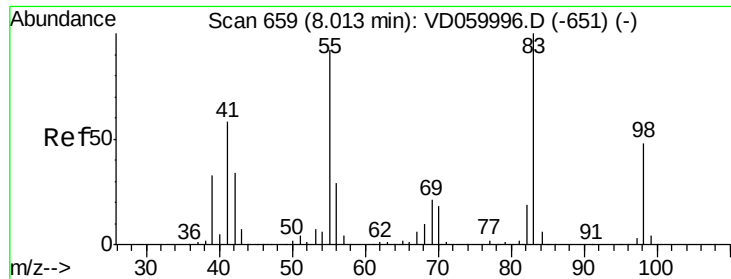
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#38
Carbon Tetrachloride
Concen: 19.374 ug/l
RT: 6.50 min Scan# 506
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.7	76.7	115.1
121	29.6	24.9	37.3





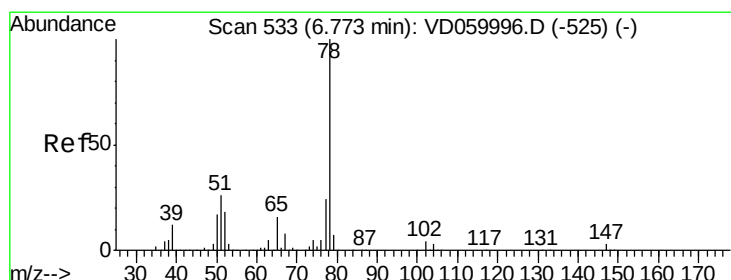
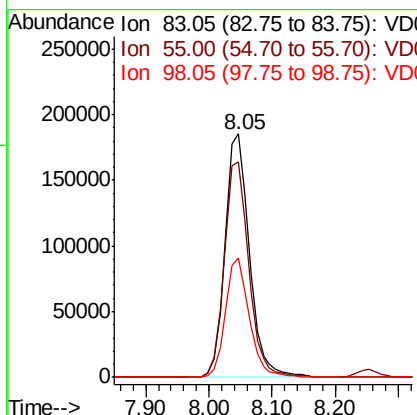
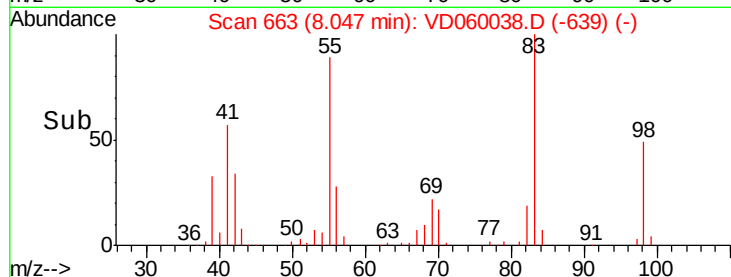
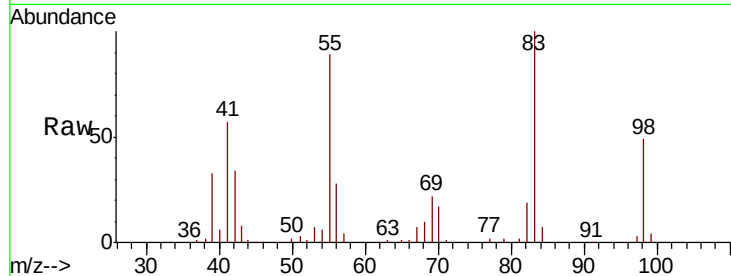
#39
Methylvlcyclohexane
Concen: 19.671 ug/l
RT: 8.05 min Scan# 663
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.5	73.8	110.6
98	48.9	38.1	57.1

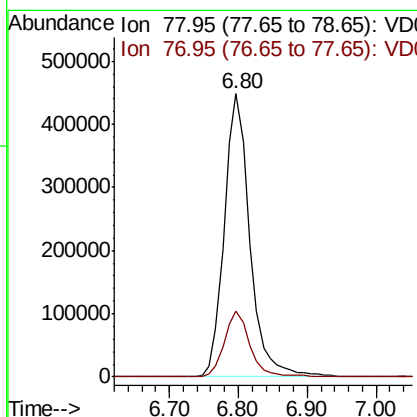
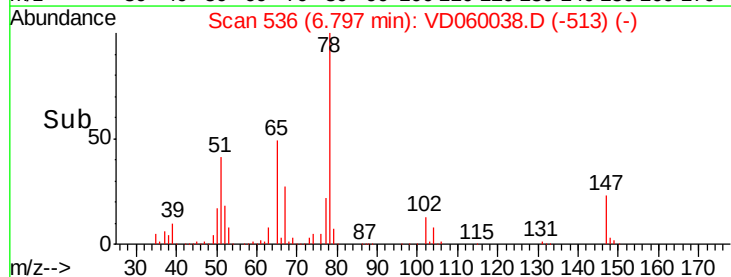
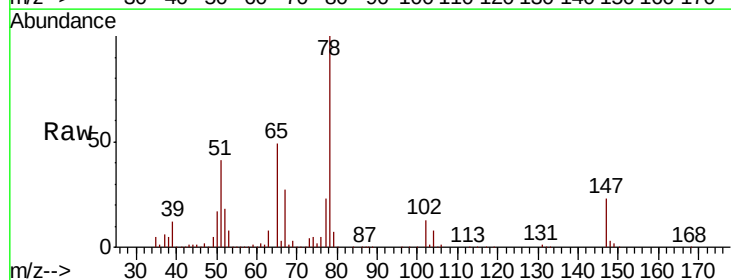
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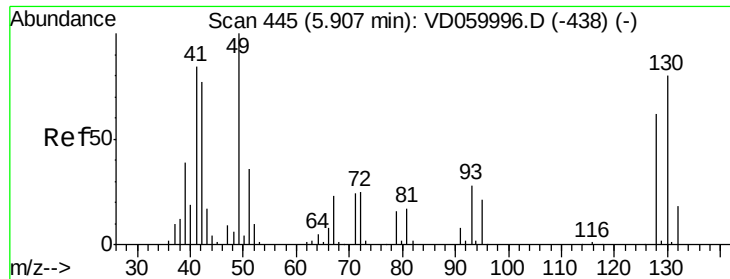
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#40
Benzene
Concen: 20.284 ug/l
RT: 6.80 min Scan# 536
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4





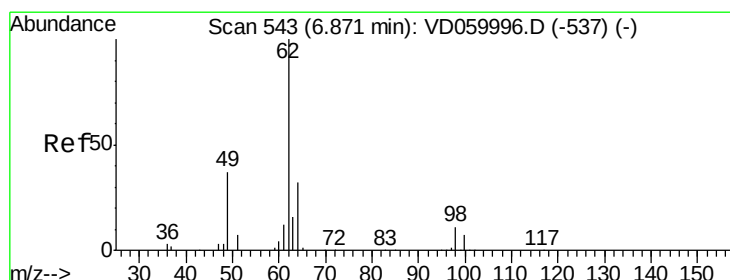
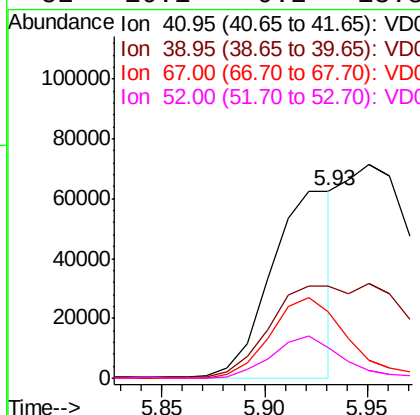
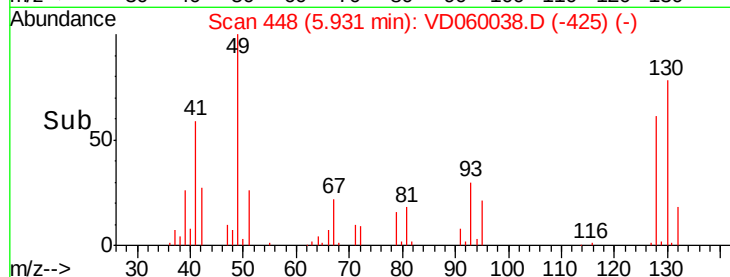
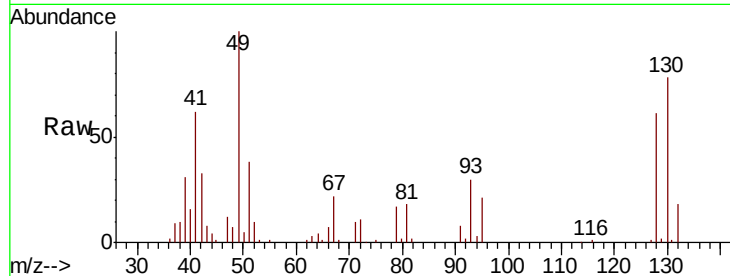
#41
Methacrylonitrile
Concen: 16.805 ug/l m
RT: 5.93 min Scan# 448
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	49.2	37.5	56.3
67	35.8	21.5	32.3
52	16.1	9.2	13.8

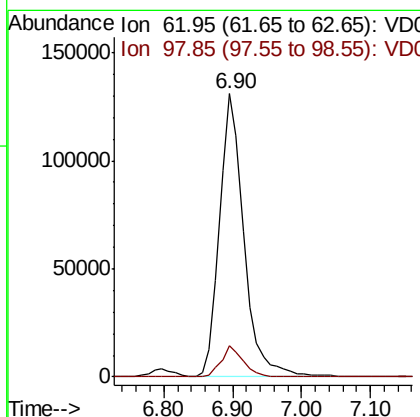
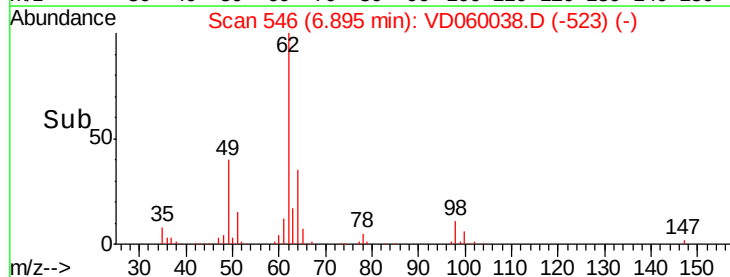
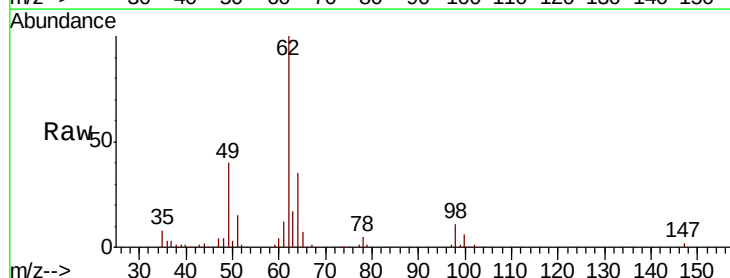
Manual Integrations
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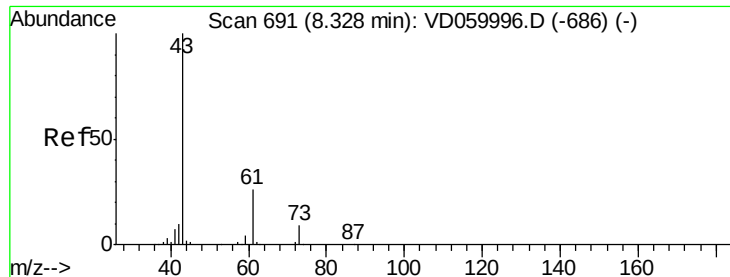
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#42
1,2-Dichloroethane
Concen: 18.751 ug/l
RT: 6.90 min Scan# 546
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	21.4





#43

Isopropyl Acetate

Concen: 17.953 ug/l

RT: 8.35 min Scan# 694

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

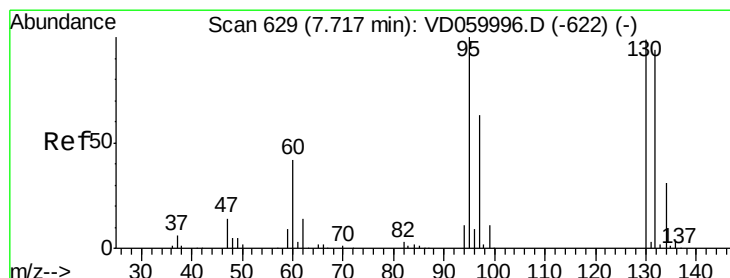
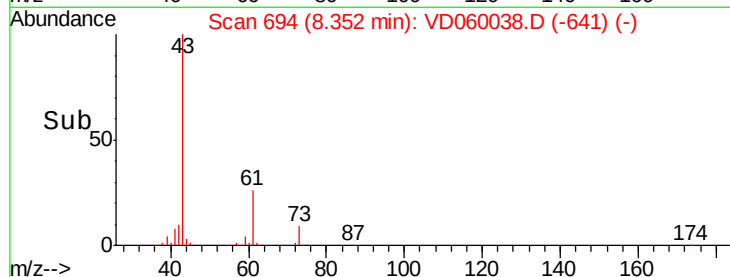
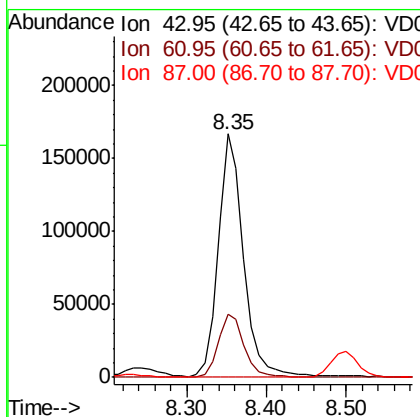
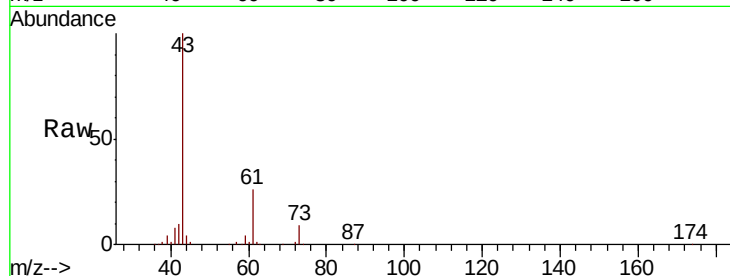
ClientSampleId :

VD0919SBS01

Tot Ion:	43	Resp:	367614
Ion	Ratio	Lower	Upper
43	100		
61	25.7	21.0	31.6
87	0.4	0.2	0.2#

Manual Integrations
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#44

Trichloroethene

Concen: 20.114 ug/l

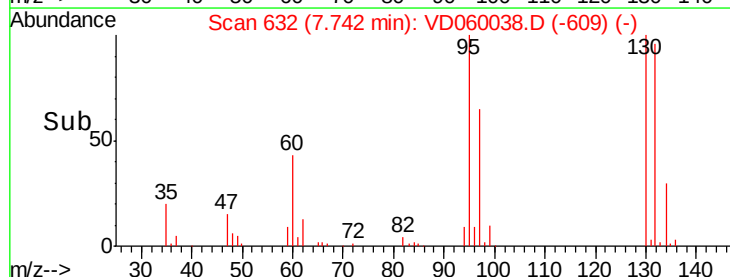
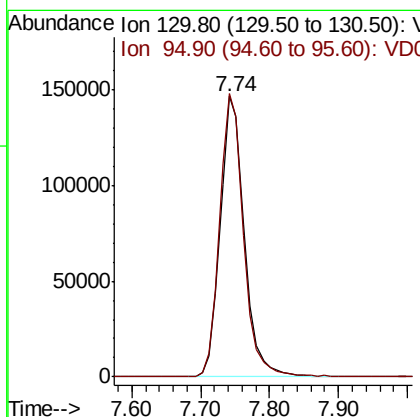
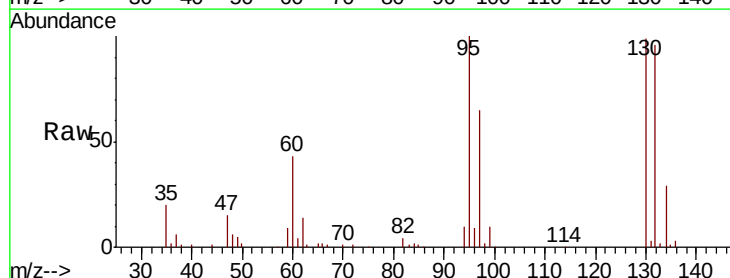
RT: 7.74 min Scan# 632

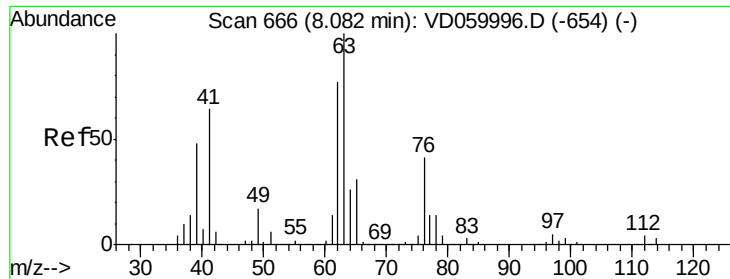
Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion:	130	Resp:	352258
Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	202.0





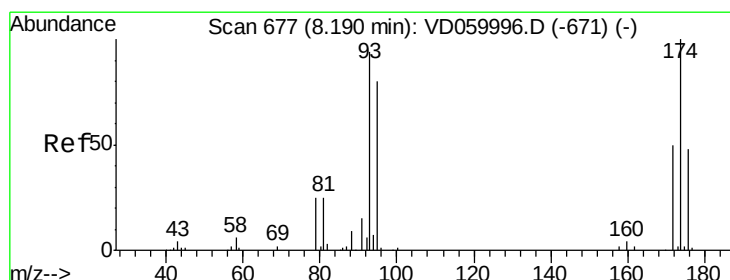
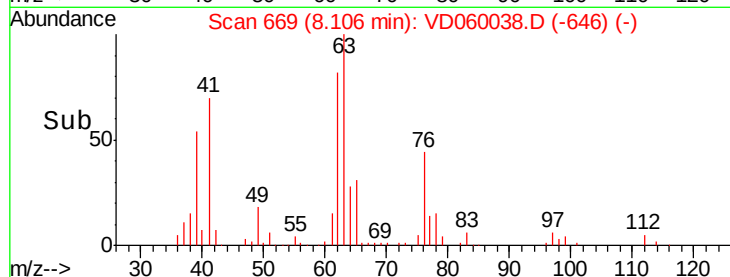
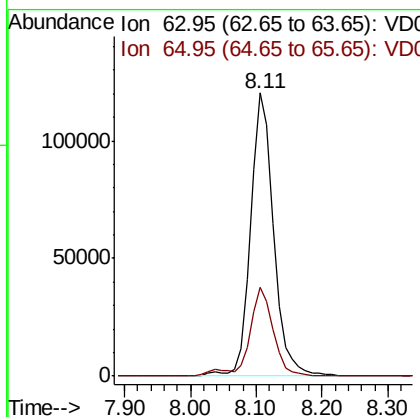
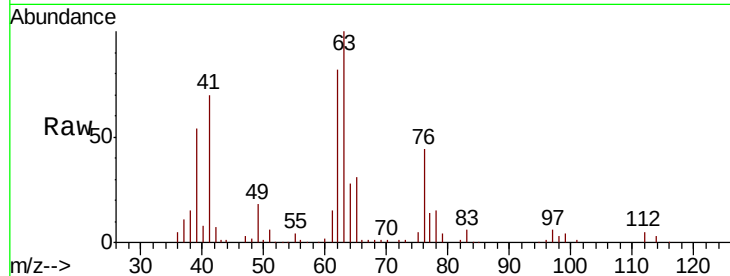
#45
 1,2-Dichloropropane
 Concen: 19.491 ug/l
 RT: 8.11 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion: 63 Resp: 295434
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.6 37.0

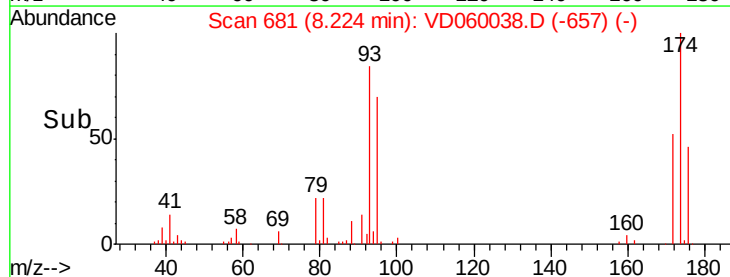
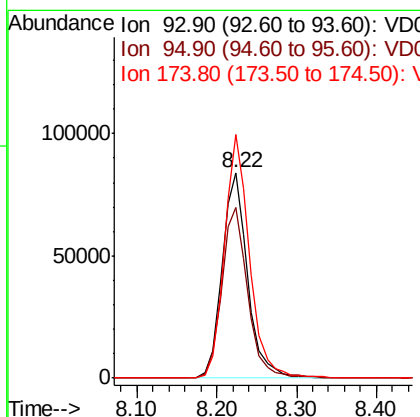
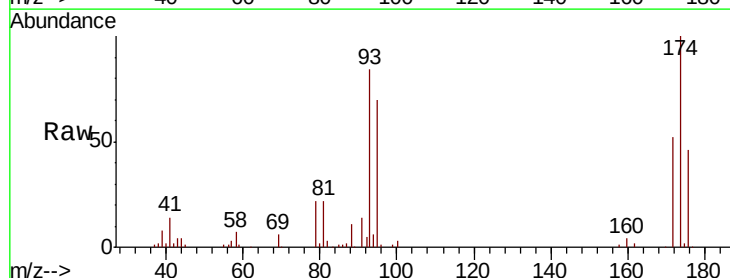
Manual Integrations
 APPROVED

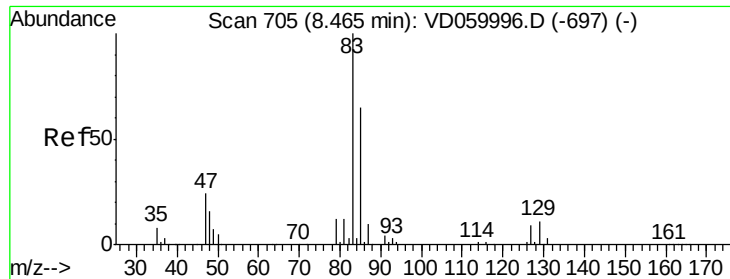
MMDadoda
 9/21/2018 5:02:14 PM



#46
 Dibromomethane
 Concen: 19.058 ug/l
 RT: 8.22 min Scan# 681
 Delta R.T. 0.03 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion: 93 Resp: 188476
 Ion Ratio Lower Upper
 93 100
 95 82.9 68.0 102.0
 174 118.4 85.4 128.2





#47

Bromodichloromethane

Concen: 19.650 ug/l

RT: 8.50 min Scan# 709

Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

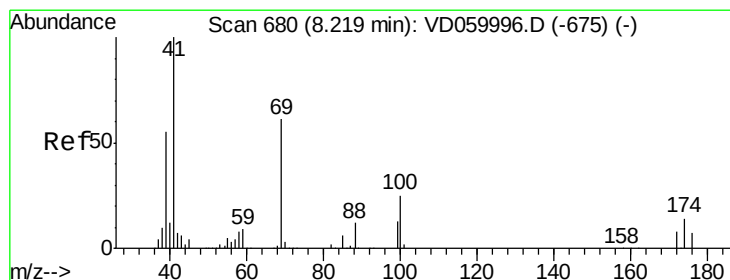
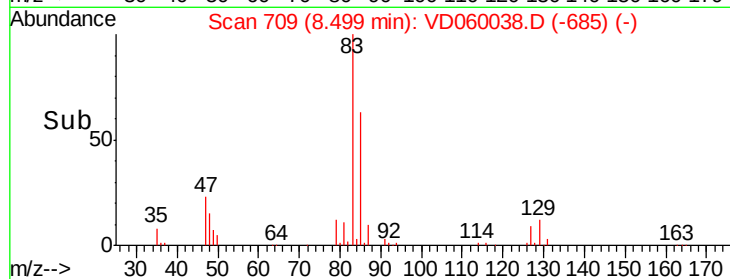
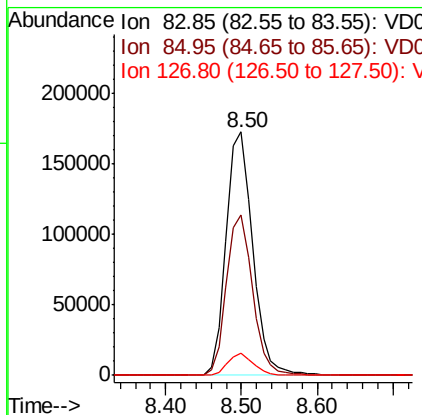
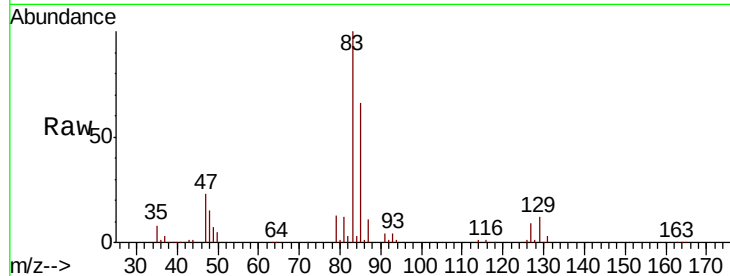
ClientSampleId :

VD0919SBS01

Tot Ion:	83	Resp:	418968
Ion Ratio	Lower	Upper	
83	100		
85	66.0	51.9	77.9
127	9.0	6.8	10.2

Manual Integrations
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9/21/2018 5:02:14 PM



#48

Methyl methacrylate

Concen: 18.779 ug/l

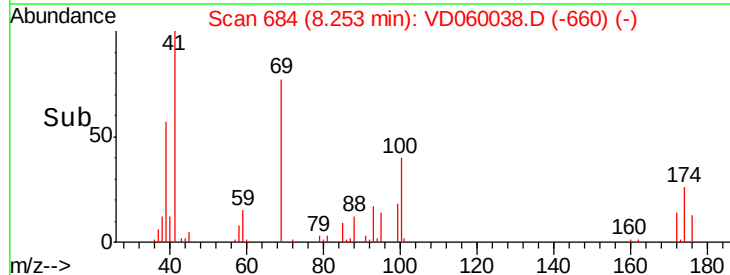
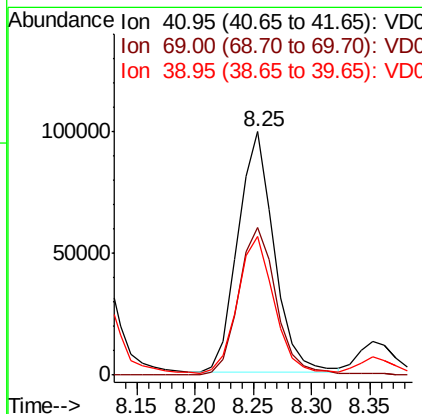
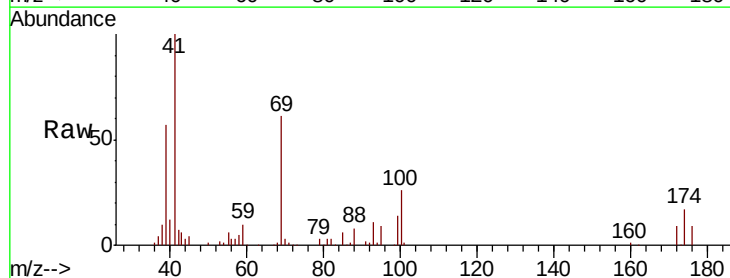
RT: 8.25 min Scan# 684

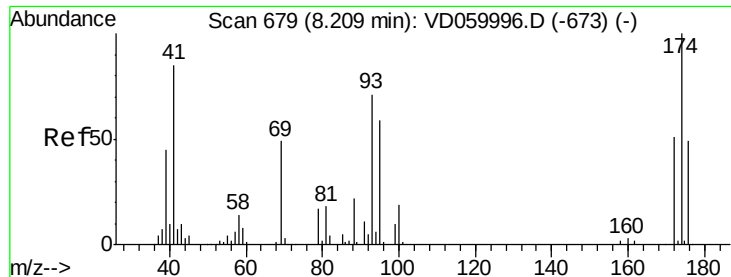
Delta R.T. 0.03 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion:	41	Resp:	214165
Ion Ratio	Lower	Upper	
41	100		
69	60.6	48.3	72.5
39	56.9	44.1	66.1





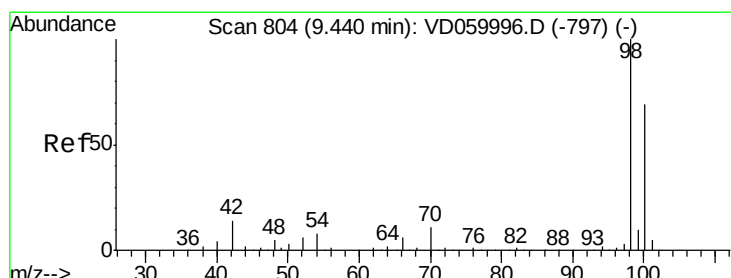
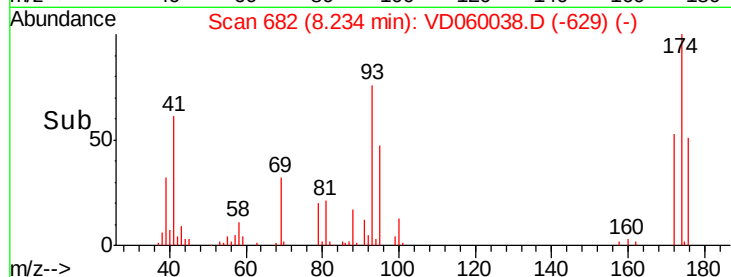
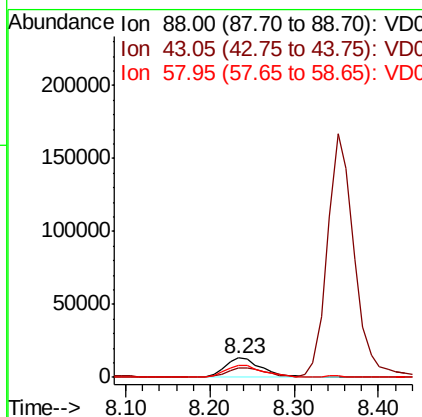
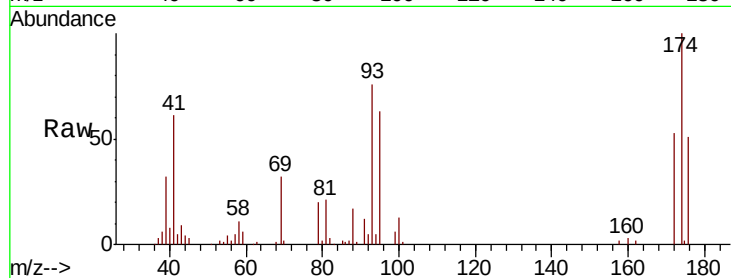
#49
 1,4-Dioxane
 Concen: 365.808 ug/l
 RT: 8.23 min Scan# 682
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	88	Resp	41436
Ion	Ratio	Lower	Upper
88	100		
43	50.2	36.2	54.2
58	61.1	51.0	76.6

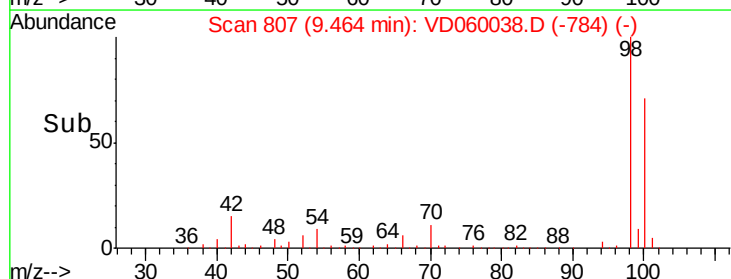
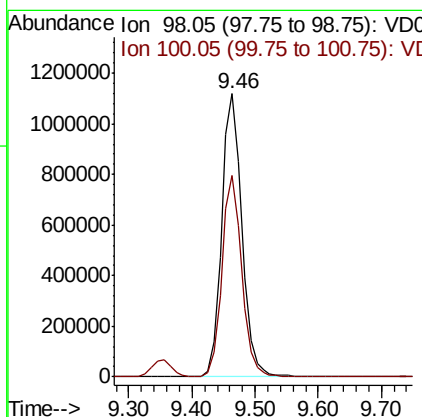
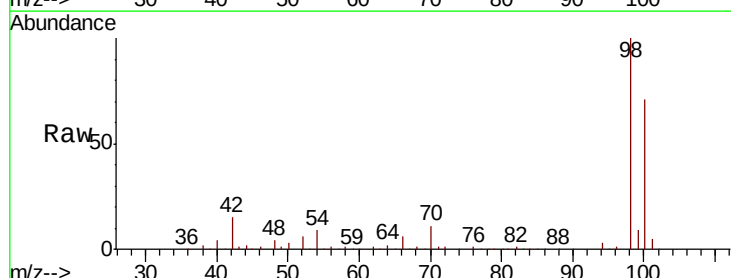
Manual Integrations
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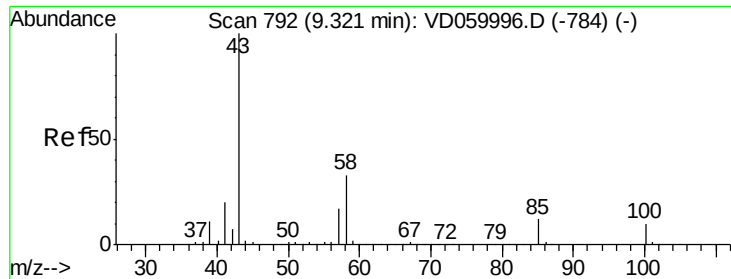
MMDadoda
 9/21/2018 5:02:14 PM



#50
 Toluene-d8
 Concen: 365.808 ug/l
 RT: 9.46 min Scan# 807
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	98	Resp	2493129
Ion	Ratio	Lower	Upper
98	100		
100	71.0	55.8	83.6





#51

4-Methyl-2-Pentanone

Concen: 97.173 ug/l

RT: 9.35 min Scan# 795

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 43 Resp: 1473503

Ion Ratio Lower Upper

43 100

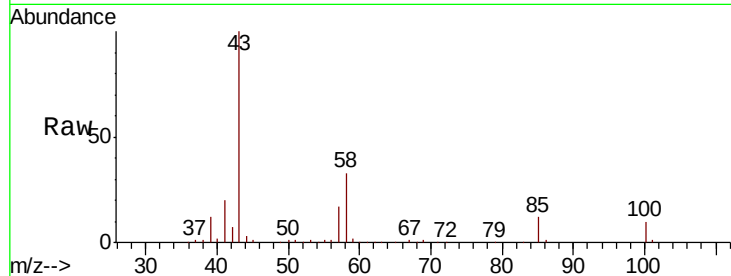
58 32.8 26.4 39.6

Manual Integrations

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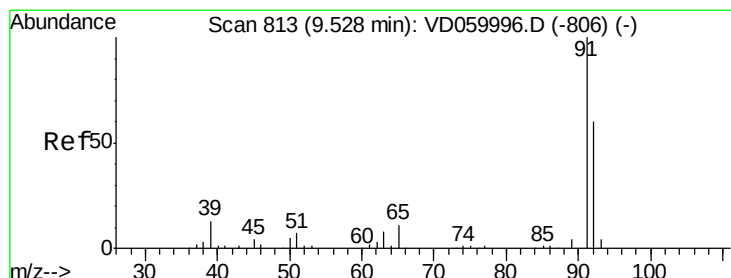
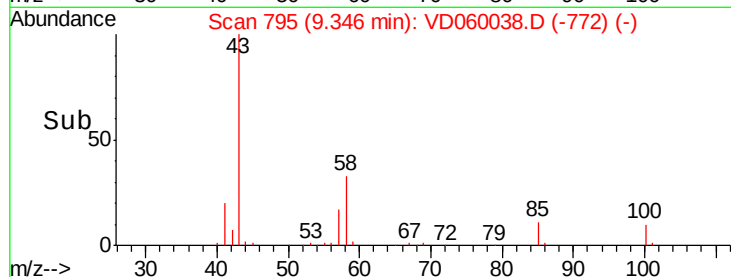
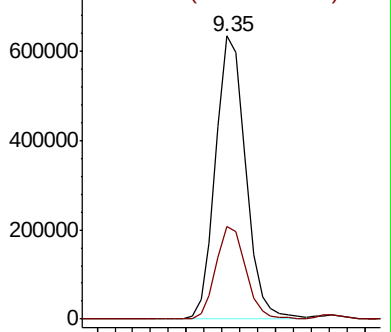
MMDadoda

9/21/2018 5:02:14 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.246 ug/l

RT: 9.55 min Scan# 816

Delta R.T. 0.02 min

Lab File: VD060038.D

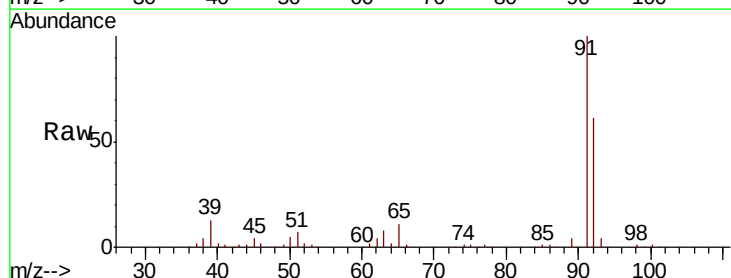
Acq: 19 Sep 2018 12:03

Tgt Ion: 92 Resp: 735610

Ion Ratio Lower Upper

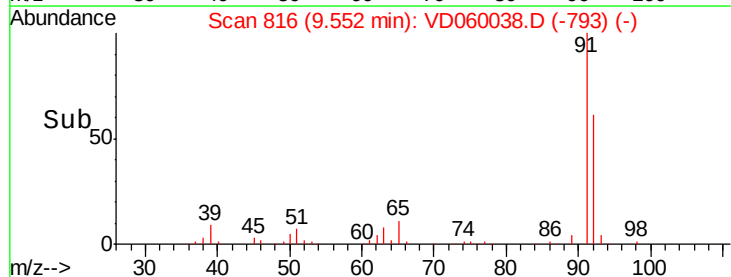
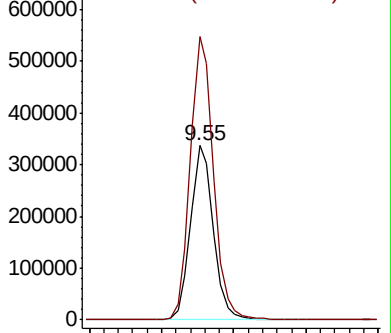
92 100

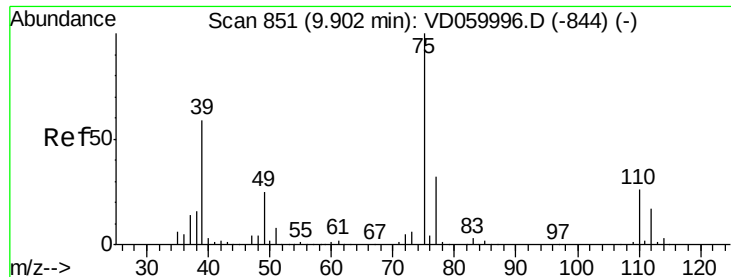
91 162.7 132.3 198.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 19.847 ug/l

RT: 9.93 min Scan# 854

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 75 Resp: 394672

Ion Ratio Lower Upper

75 100

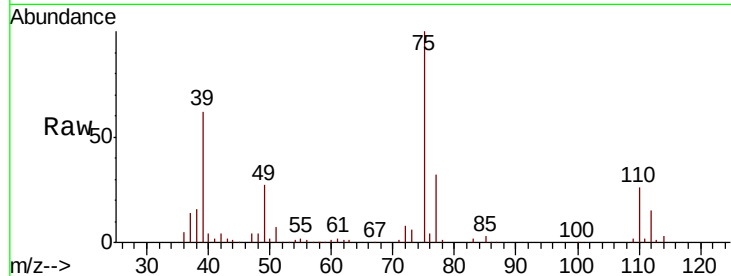
77 32.1 25.6 38.4

Manual Integrations

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

9.93

200000

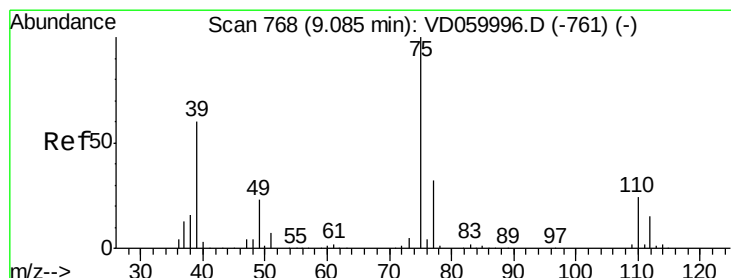
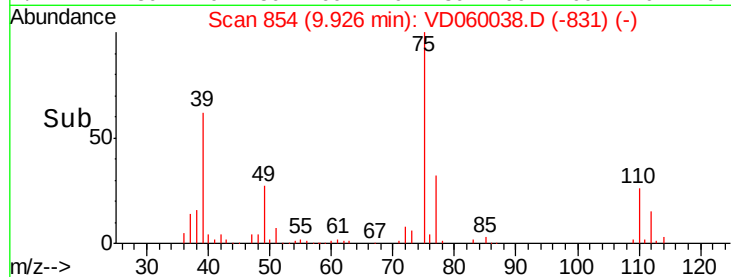
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.790 ug/l

RT: 9.11 min Scan# 771

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

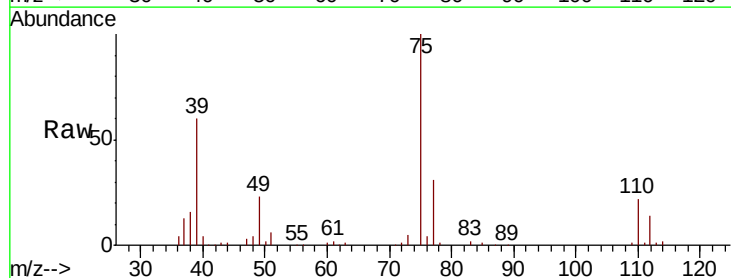
Tgt Ion: 75 Resp: 470202

Ion Ratio Lower Upper

75 100

77 31.2 25.5 38.3

39 60.2 48.0 72.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

9.11

300000

250000

200000

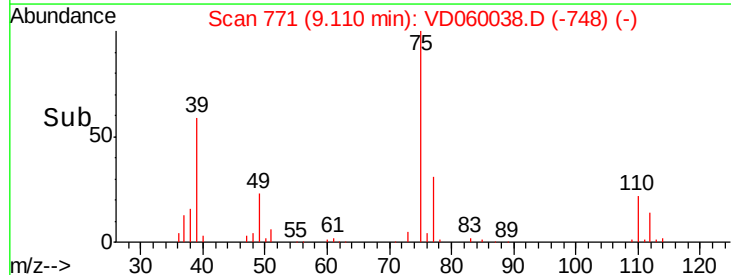
150000

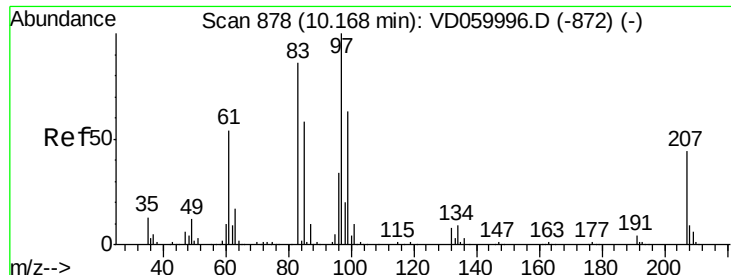
100000

50000

0

Time-->





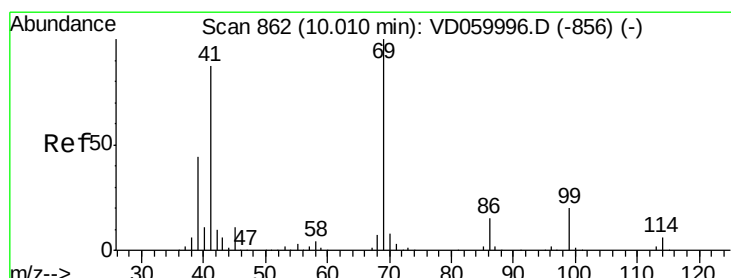
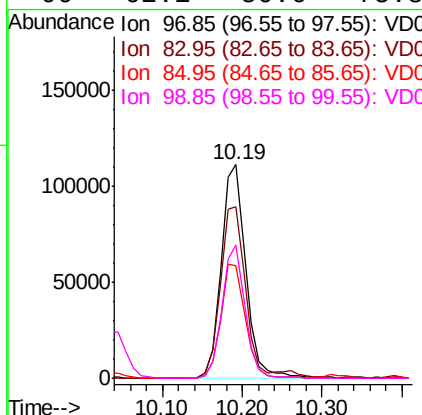
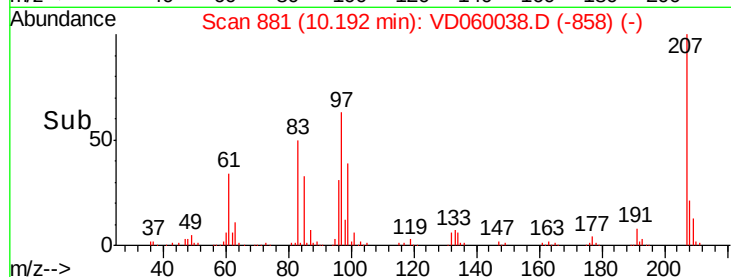
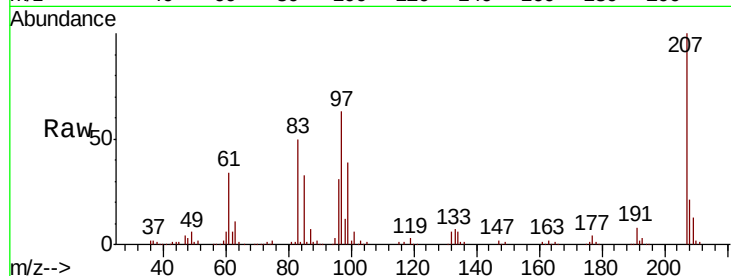
#55
 1,1,2-Trichloroethane
 Concen: 19.164 ug/l
 RT: 10.19 min Scan# 881
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		241758		
83	80.5	69.1	103.7		
85	53.0	46.2	69.4		
99	62.1	50.6	75.8		

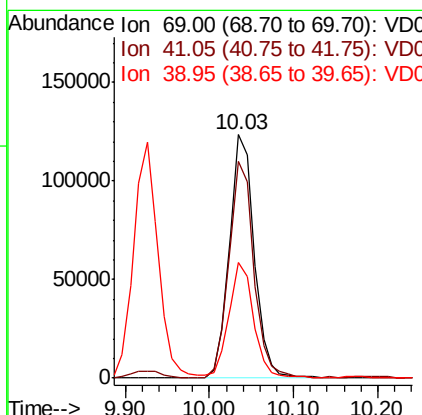
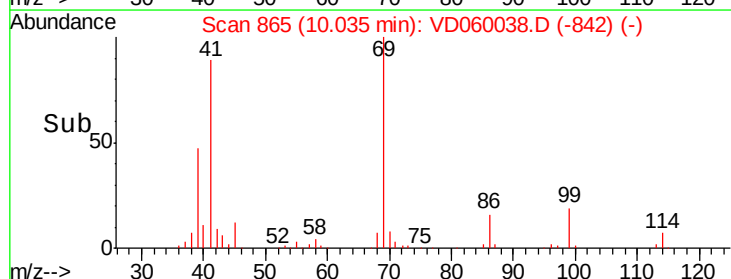
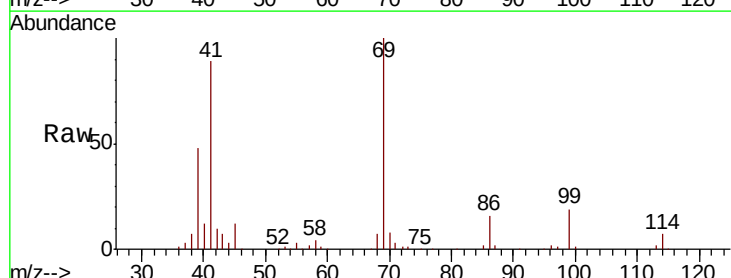
Manual Integrations
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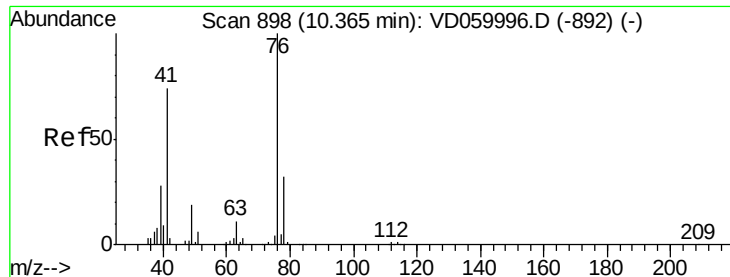
MMDadoda
 9/21/2018 5:02:14 PM



#56
 Ethyl methacrylate
 Concen: 18.155 ug/l
 RT: 10.03 min Scan# 865
 Delta R.T. 0.02 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		254033		
41	88.8	70.1	105.1		
39	47.5	36.5	54.7		





#57

1,3-Dichloropropane

Concen: 19.447 ug/l

RT: 10.39 min Scan# 901

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 76 Resp: 362115

Ion Ratio Lower Upper

76 100

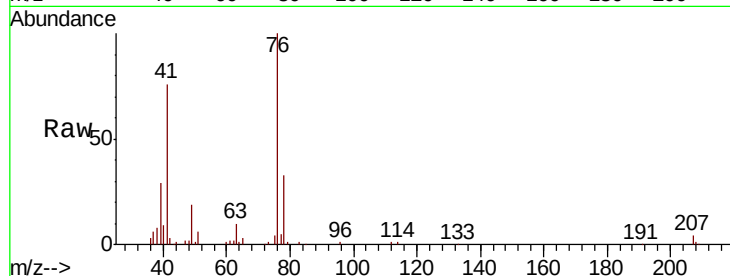
78 32.8 25.3 37.9

Manual Integrations

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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.39

200000

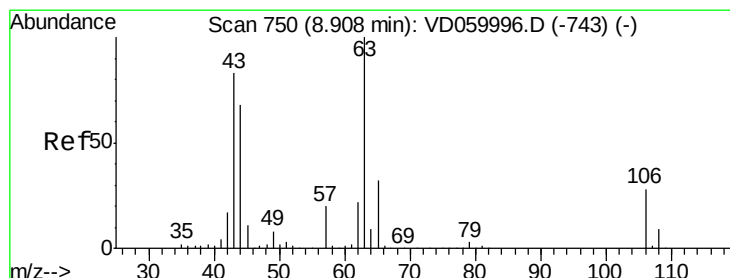
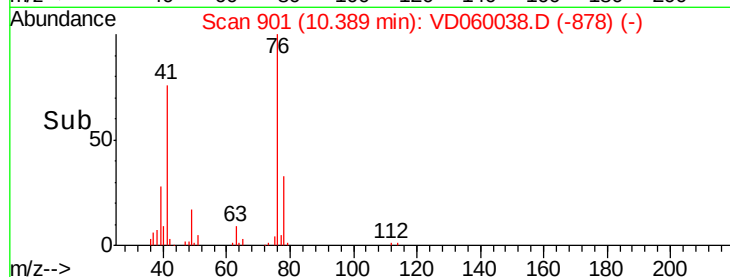
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 106.024 ug/l

RT: 8.93 min Scan# 753

Delta R.T. 0.02 min

Lab File: VD060038.D

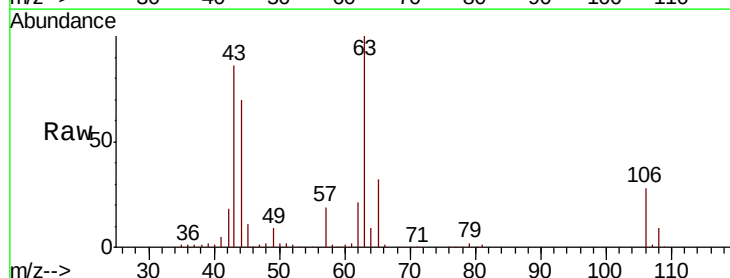
Acq: 19 Sep 2018 12:03

Tgt Ion: 63 Resp: 716381

Ion Ratio Lower Upper

63 100

106 28.3 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.93

400000

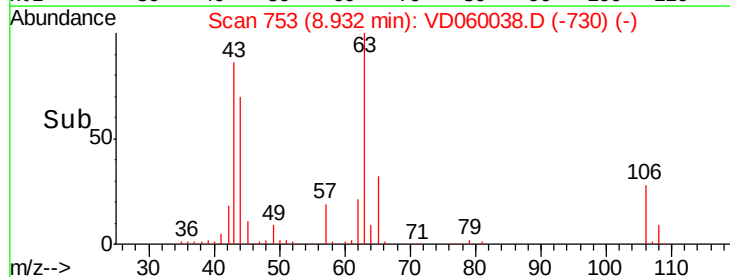
300000

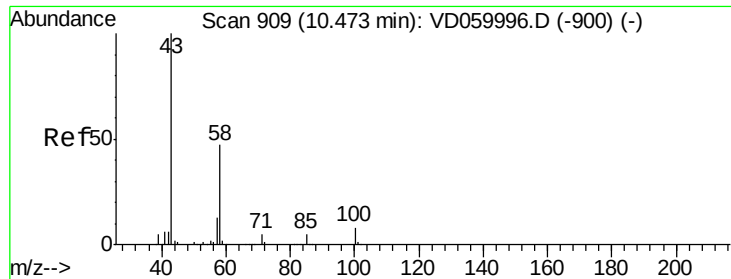
200000

100000

0

Time-->





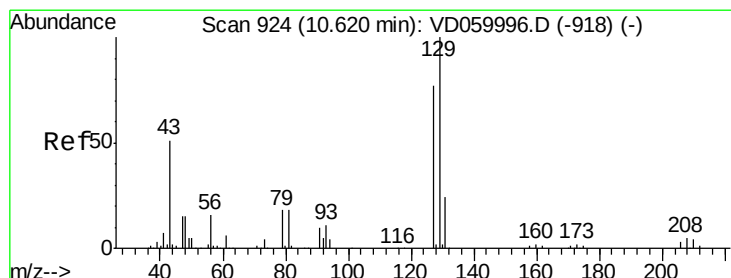
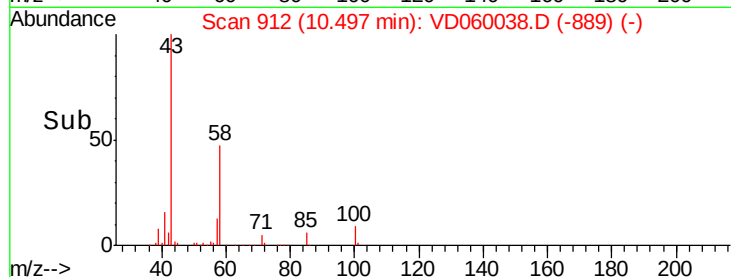
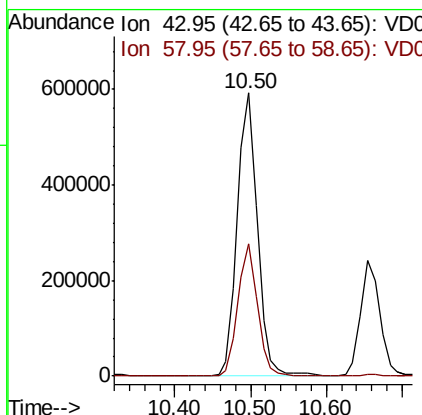
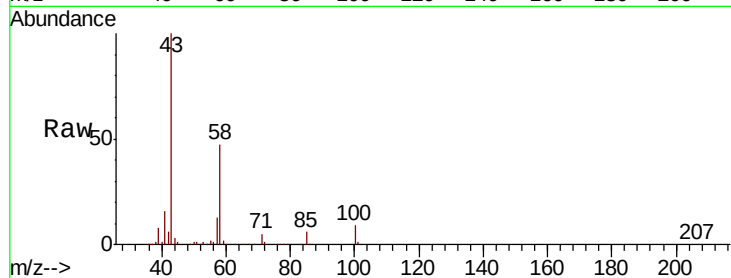
#59
2-Hexanone
Concen: 100.025 ug/l
RT: 10.50 min Scan# 912
Delta R.T. 0.03 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion: 43 Resp: 1090447
Ion Ratio Lower Upper
43 100
58 46.9 23.4 70.0

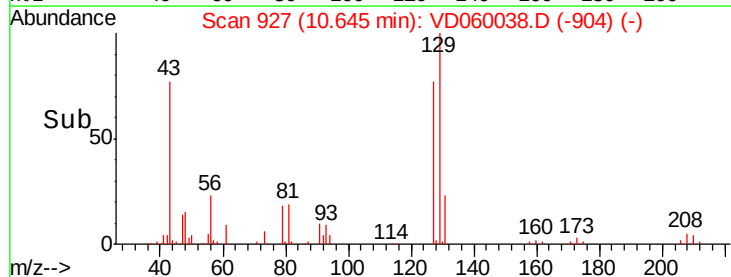
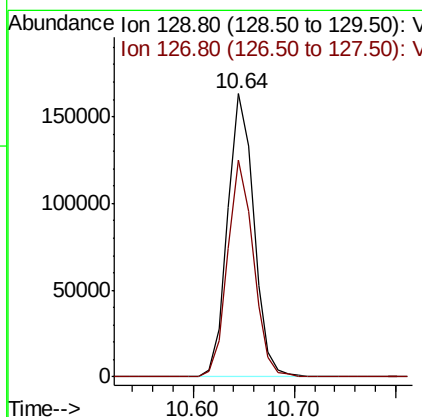
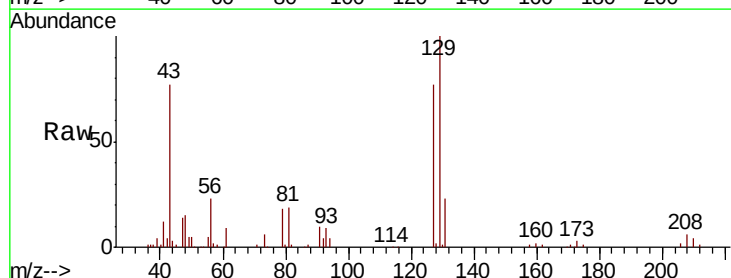
Manual Integrations
APPROVED

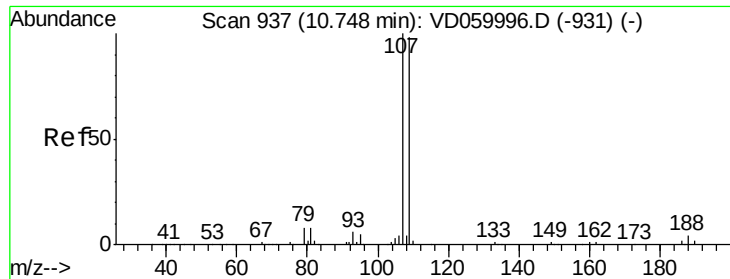
MMDadoda
9/21/2018 5:02:14 PM



#60
Dibromochloromethane
Concen: 19.261 ug/l
RT: 10.64 min Scan# 927
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion: 129 Resp: 295742
Ion Ratio Lower Upper
129 100
127 76.8 38.6 116.0





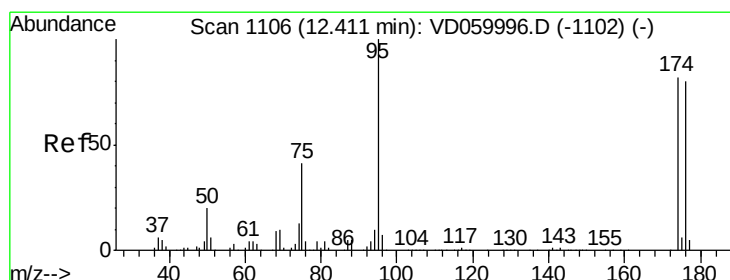
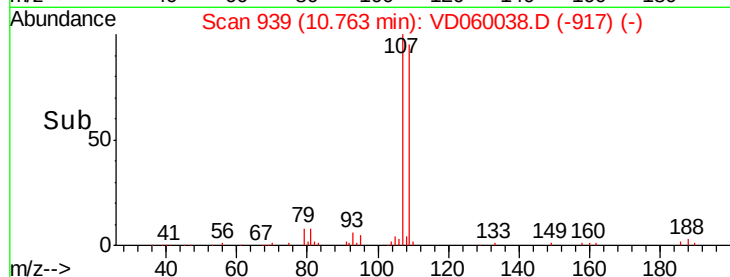
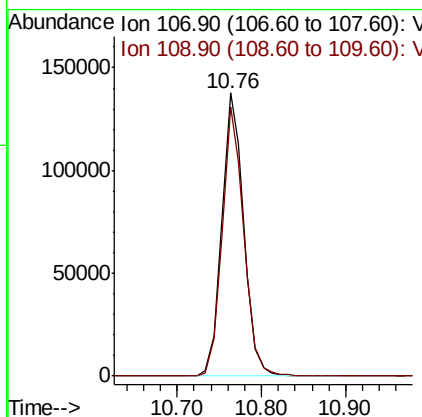
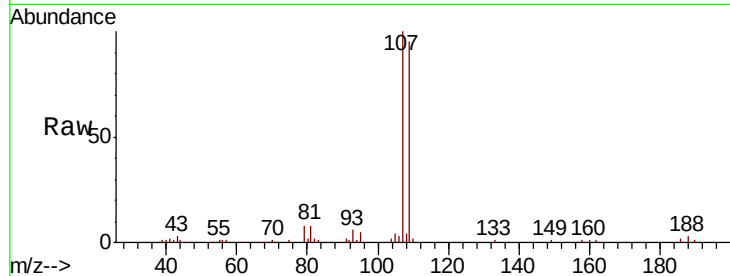
#61
1,2-Dibromoethane
Concen: 18.916 ug/l
RT: 10.76 min Scan# 939
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.2	78.2	117.2

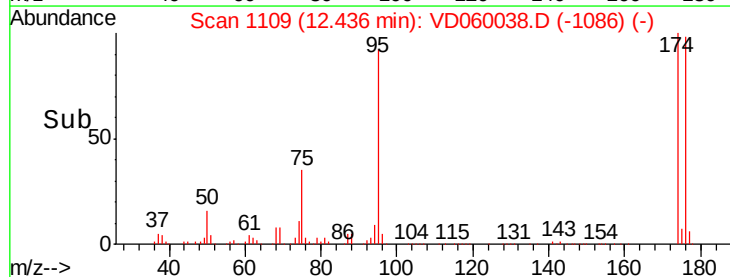
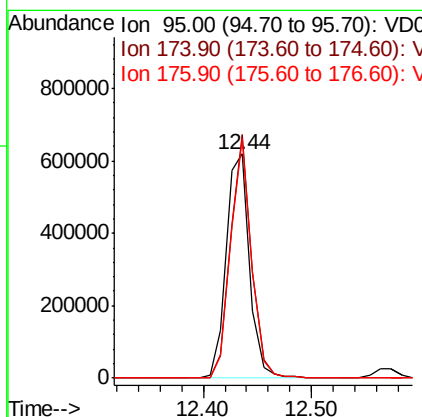
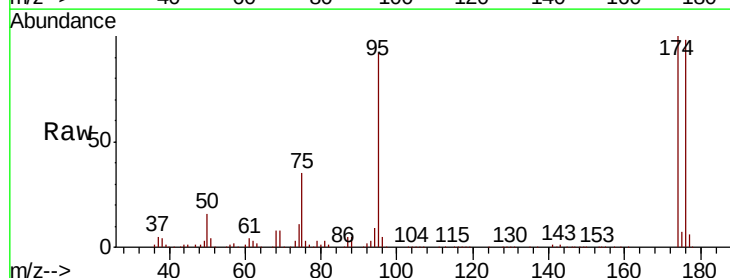
Manual Integrations
APPROVED

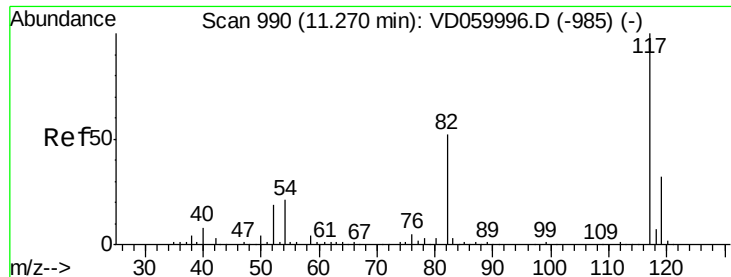
MMDadoda
9/21/2018 5:02:14 PM



#62
4-Bromofluorobenzene
Concen: 18.916 ug/l
RT: 12.44 min Scan# 1109
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	108.6	0.0	165.0
176	106.8	0.0	160.2





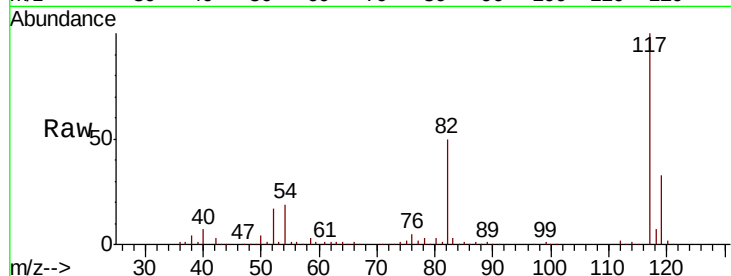
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 993
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.9	41.7	62.5
119	32.7	26.0	39.0

Manual Integrations
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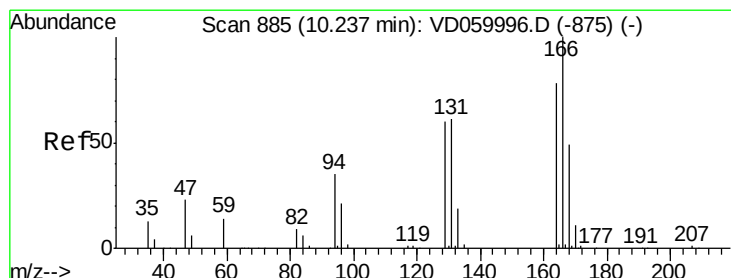
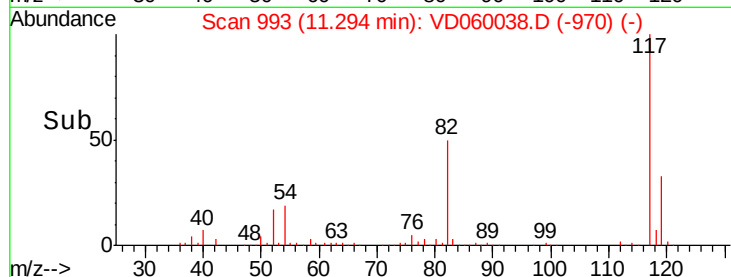
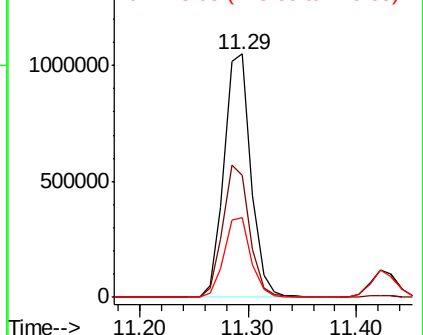


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 19.339 ug/l
RT: 10.26 min Scan# 888
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.8	103.0	154.6
129	80.6	61.9	92.9
131	78.4	62.6	93.8

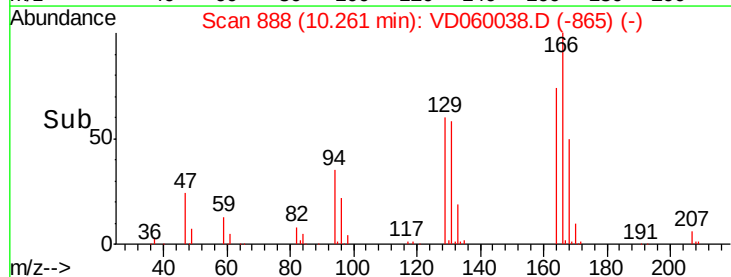
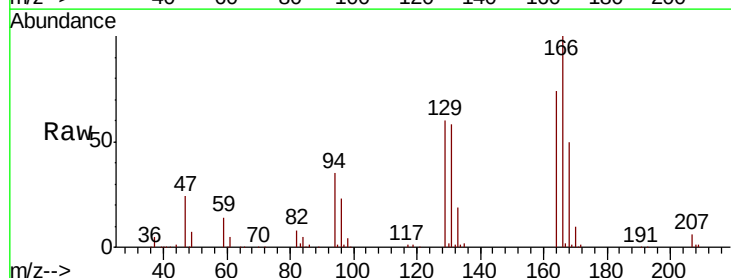
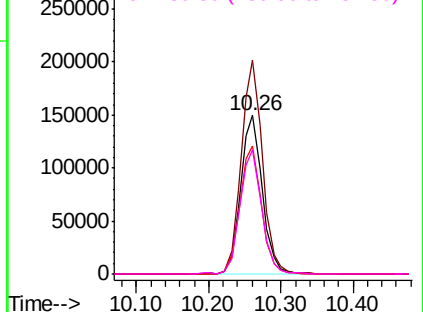
Abundance

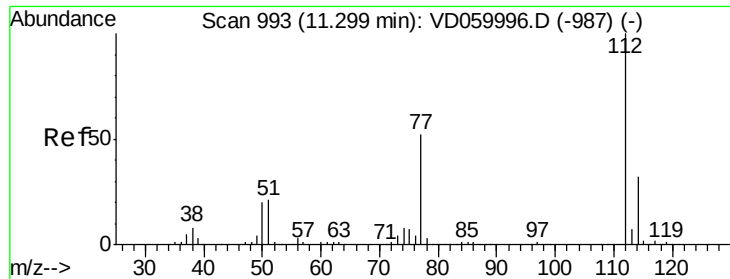
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 20.746 ug/l

RT: 11.32 min Scan# 996

Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion:112 Resp: 816936

Ion Ratio Lower Upper

112 100

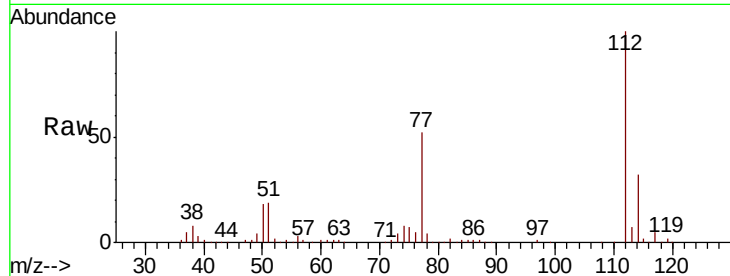
114 31.9 25.3 37.9

Manual Integrations

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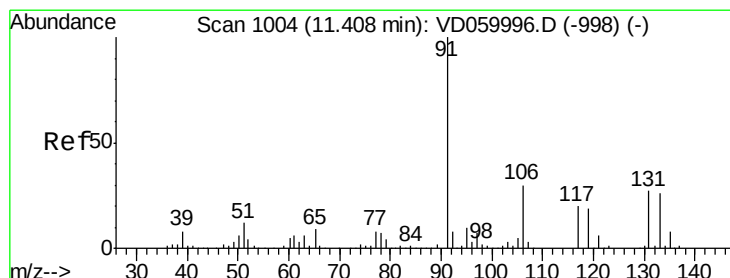
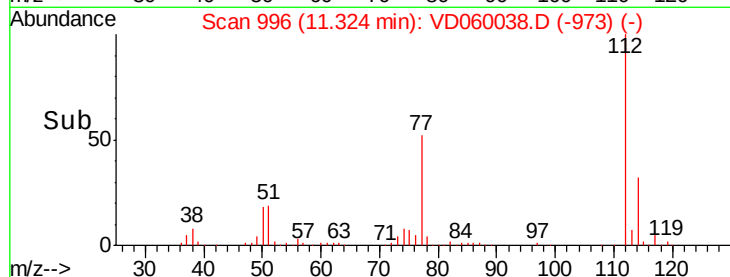
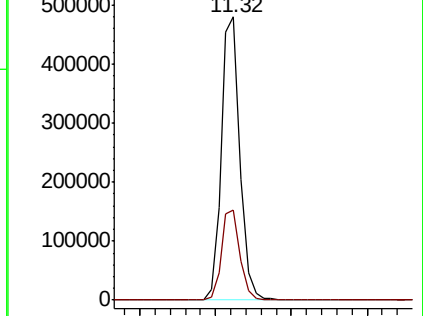
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.075 ug/l

RT: 11.42 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

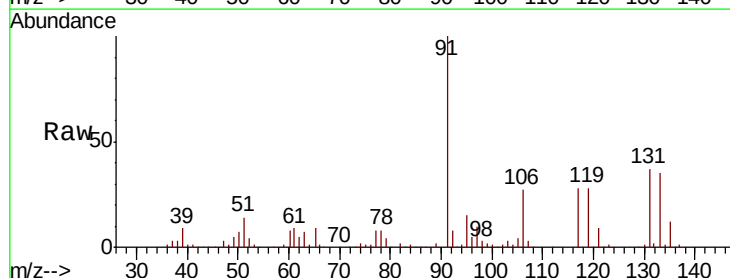
Tgt Ion:131 Resp: 266621

Ion Ratio Lower Upper

131 100

133 94.6 47.4 142.3

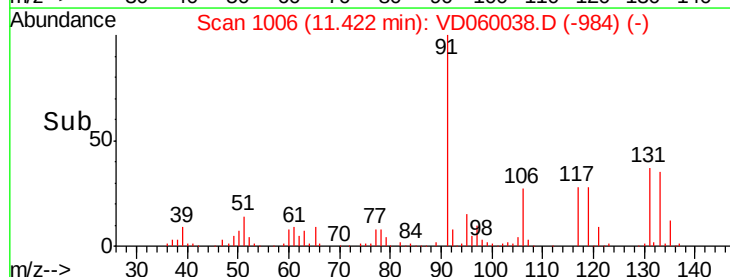
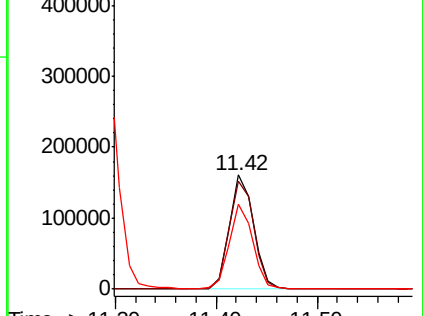
119 75.2 35.6 106.9

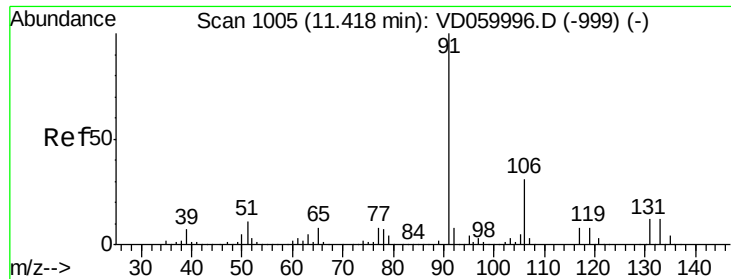


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V





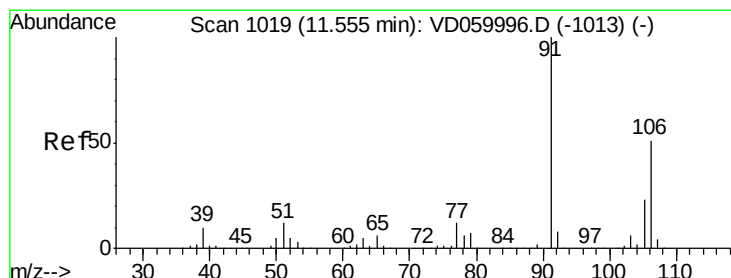
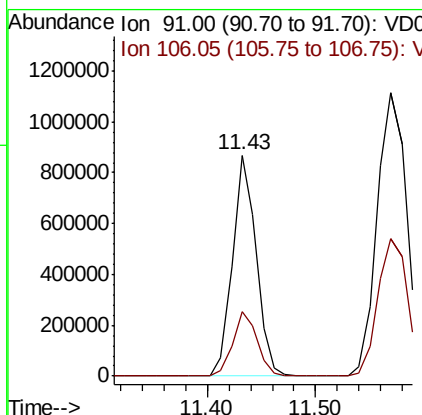
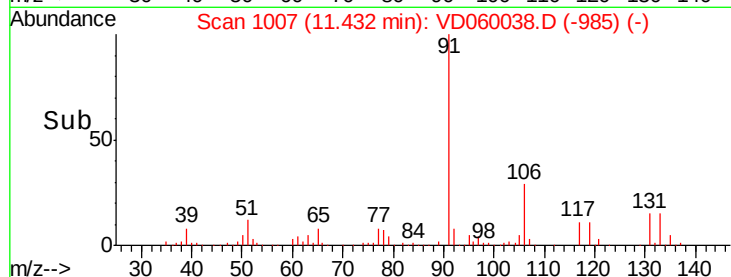
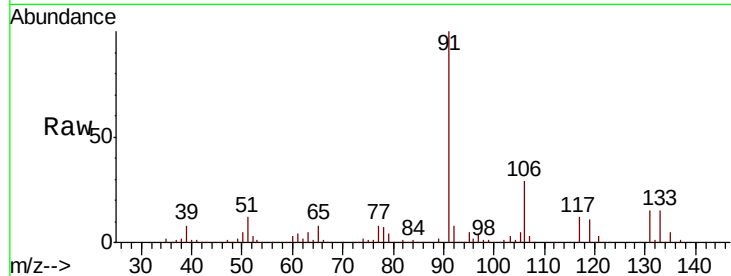
#67
Ethyl Benzene
Concen: 21.003 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion: 91 Resp: 1330969
Ion Ratio Lower Upper
91 100
106 29.3 24.8 37.2

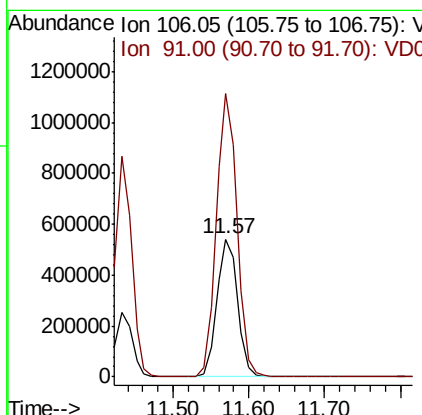
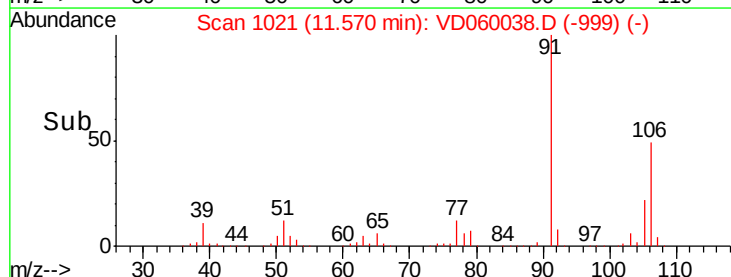
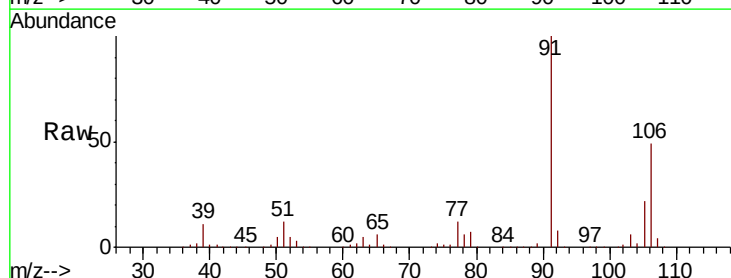
Manual Integrations
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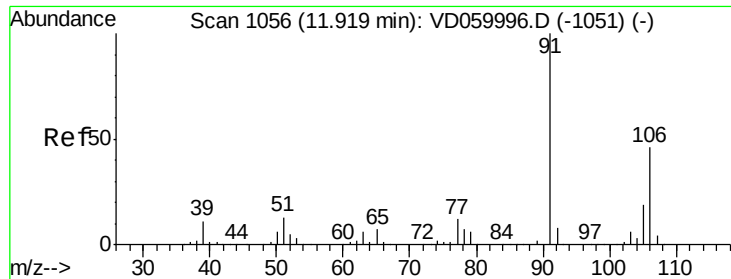
MMDadoda
9/21/2018 5:02:14 PM



#68
m/p-Xylenes
Concen: 44.450 ug/l
RT: 11.57 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion: 106 Resp: 1040298
Ion Ratio Lower Upper
106 100
91 205.1 157.0 235.6





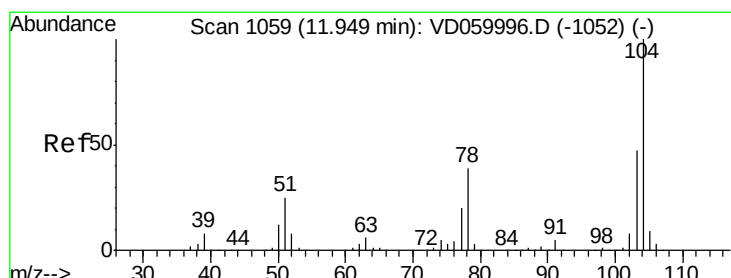
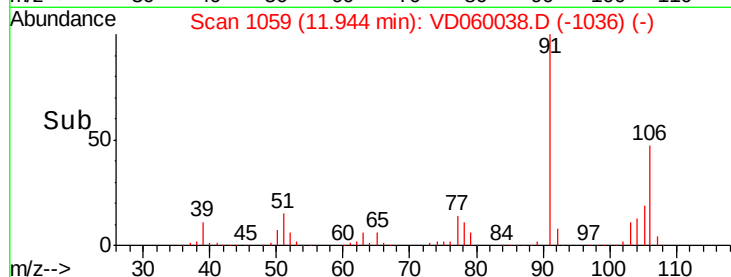
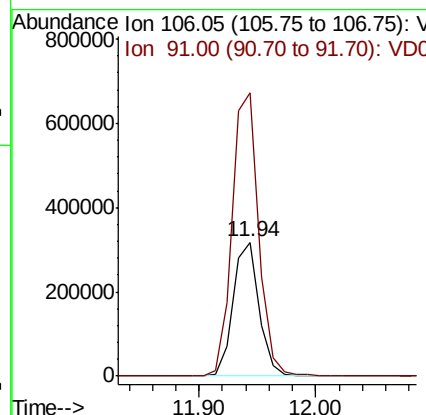
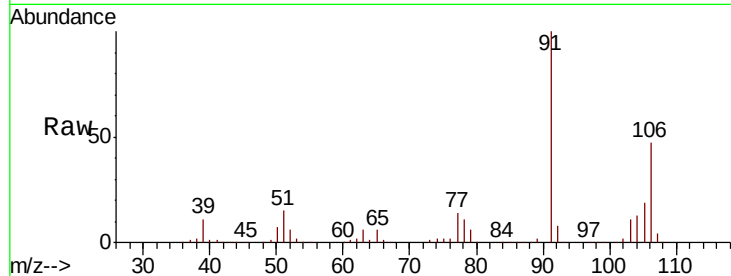
#69
o-Xylene
Concen: 21.131 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. 0.02 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion:106 Resp: 490012
Ion Ratio Lower Upper
106 100
91 210.9 107.7 323.1

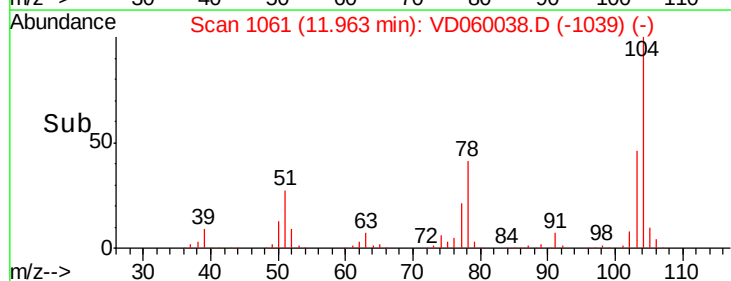
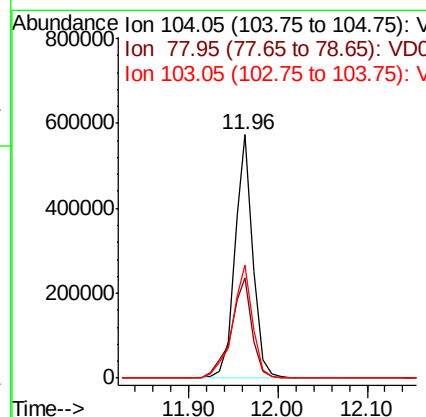
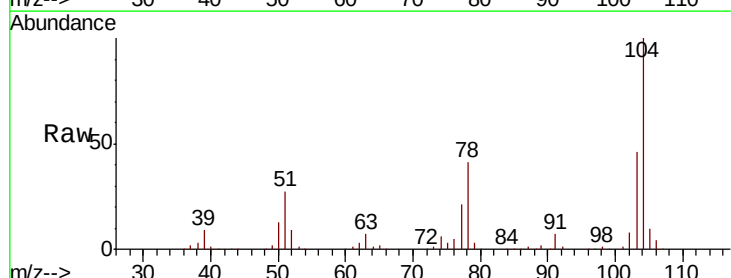
Manual Integrations
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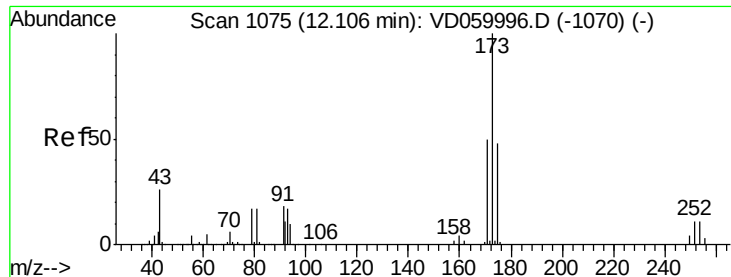
MMDadoda
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#70
Styrene
Concen: 20.861 ug/l
RT: 11.96 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion:104 Resp: 813419
Ion Ratio Lower Upper
104 100
78 41.1 31.0 46.4
103 46.4 37.6 56.4





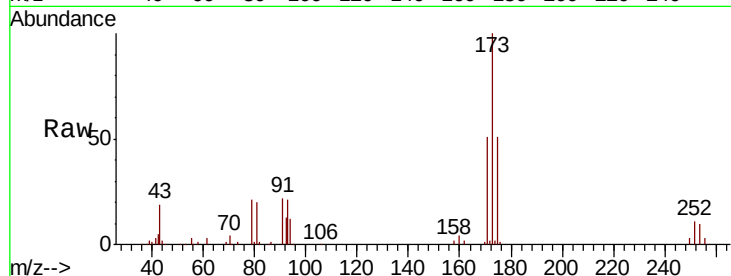
#71
Bromoform
Concen: 17.970 ug/l
RT: 12.12 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.0	24.0	72.0
254	9.6	8.6	13.0

Manual Integrations
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9/21/2018 5:02:14 PM

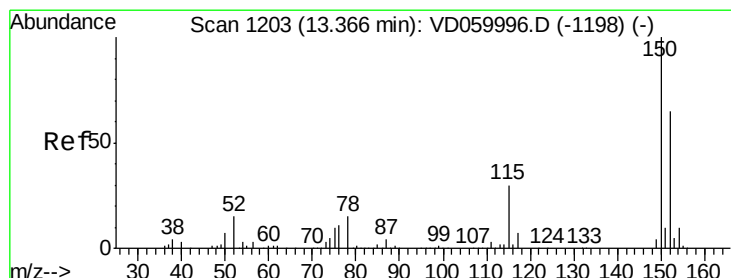
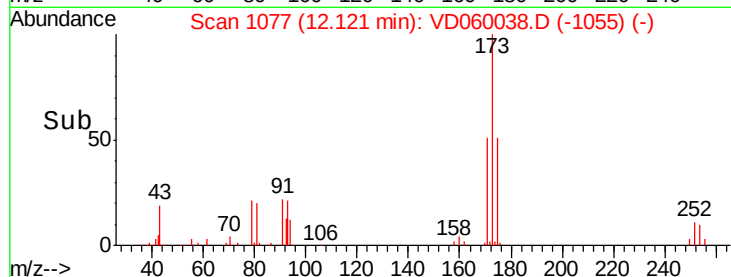
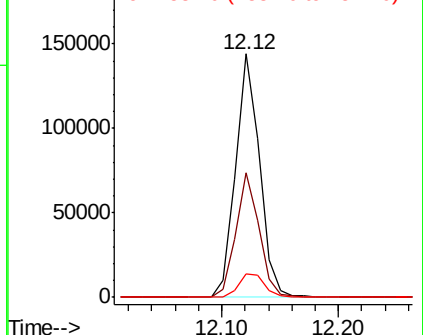


Abundance

Ion 172.80 (172.50 to 173.50): V

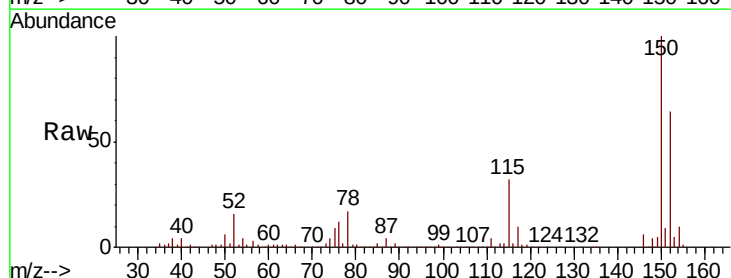
Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1205
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.0	24.6	73.8
150	155.0	0.0	313.4

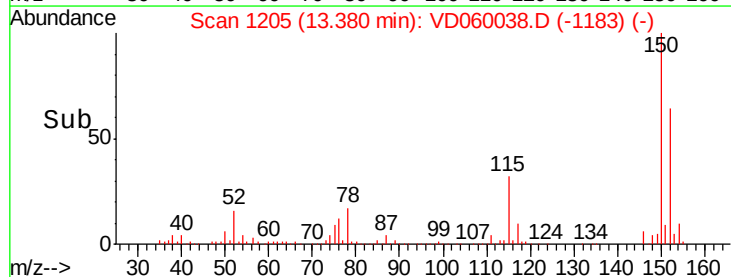
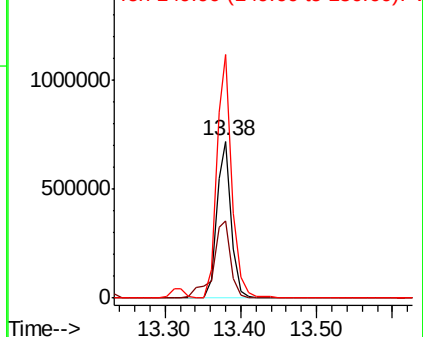


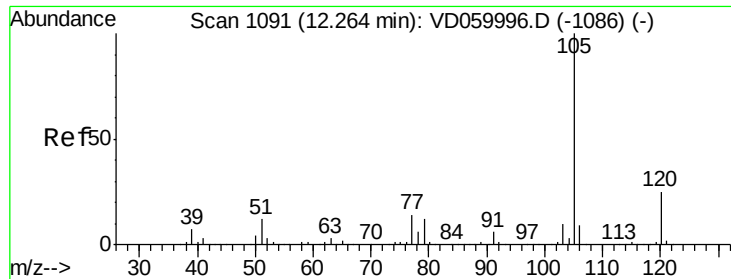
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.619 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion:105 Resp: 1372420

Ion Ratio Lower Upper

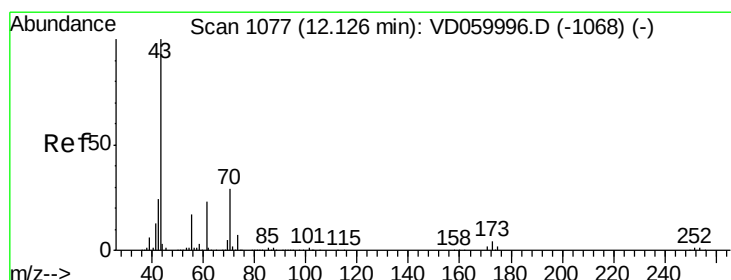
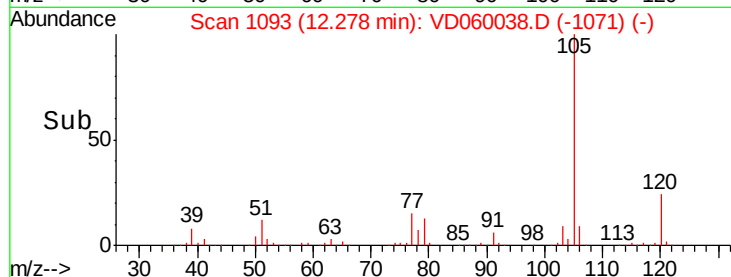
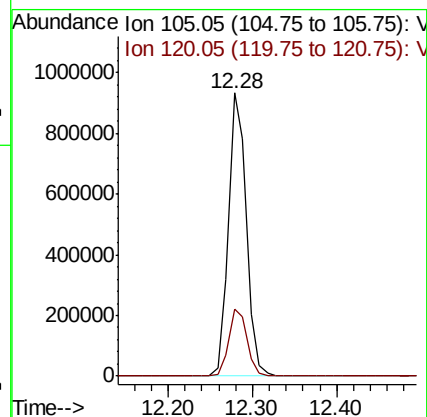
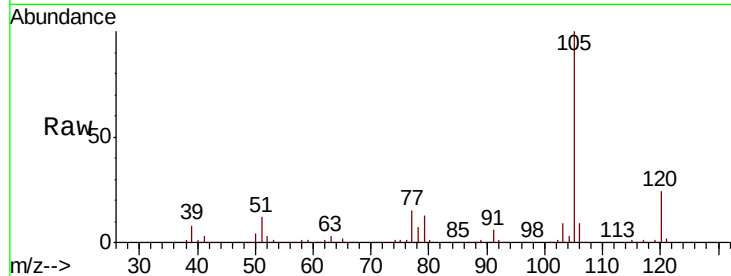
105 100

120 23.7 12.3 36.9

Manual Integrations
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#74

N-ethyl acetate

Concen: 18.728 ug/l

RT: 12.14 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion: 43 Resp: 470928

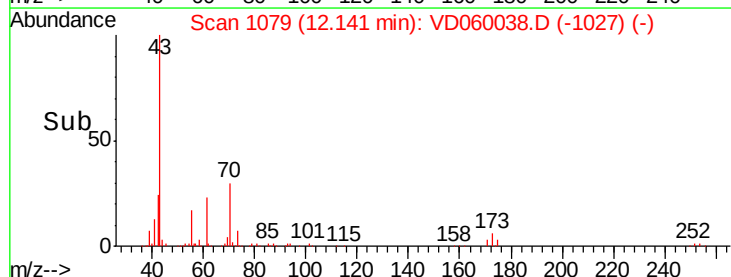
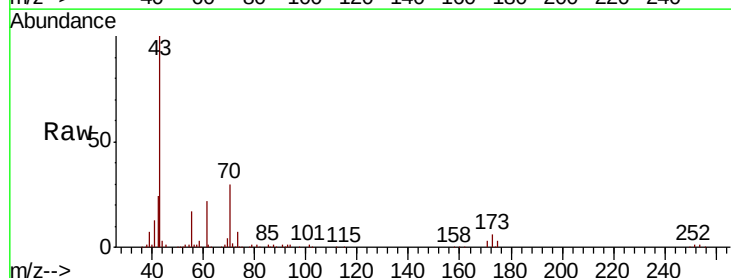
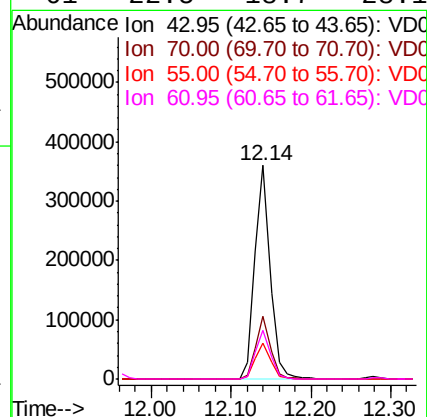
Ion Ratio Lower Upper

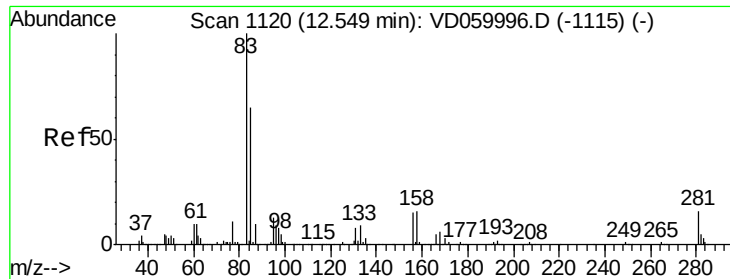
43 100

70 29.5 22.9 34.3

55 16.6 14.0 21.0

61 22.5 18.7 28.1





#75

1,1,2,2-Tetrachloroethane

Concen: 19.362 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 83 Resp: 278834

Ion Ratio Lower Upper

83 100

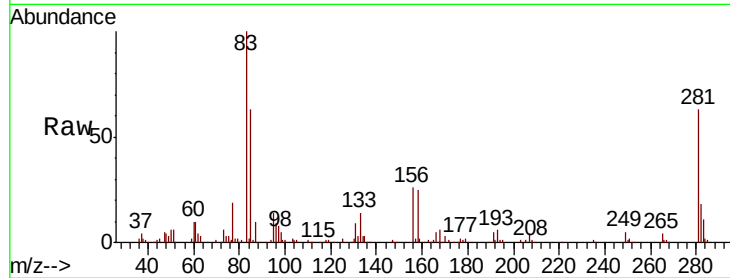
131 8.6 4.1 12.3

85 62.7 32.4 97.2

Manual Integrations
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MMDadoda

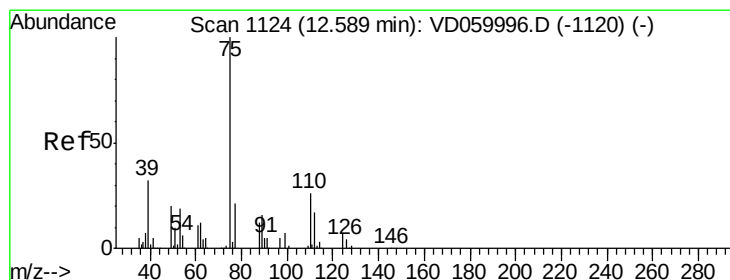
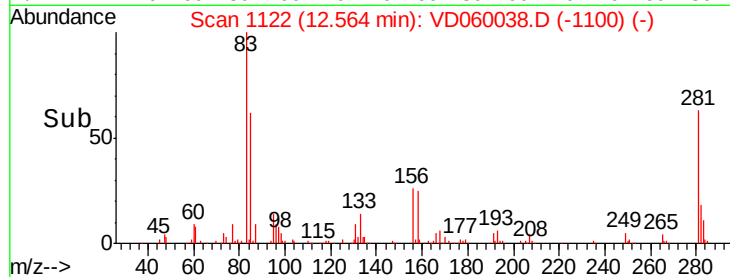
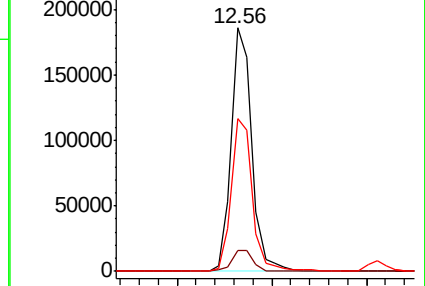
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Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 18.616 ug/l

RT: 12.60 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VD060038.D

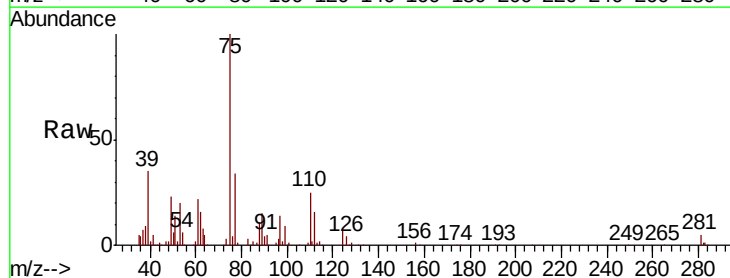
Acq: 19 Sep 2018 12:03

Tgt Ion: 75 Resp: 275201

Ion Ratio Lower Upper

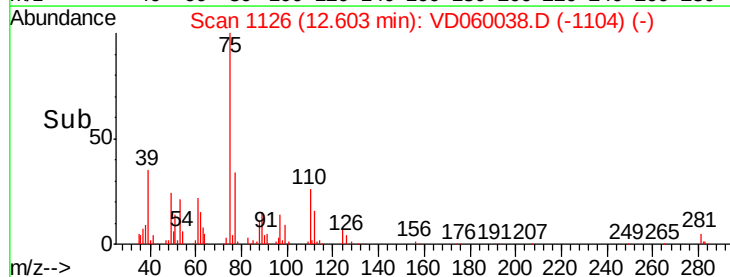
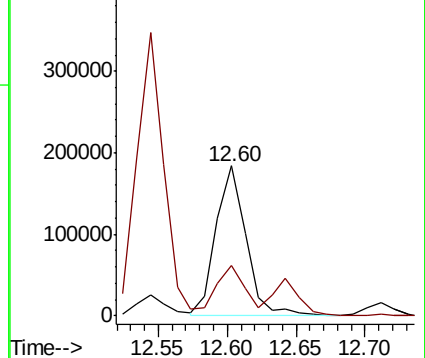
75 100

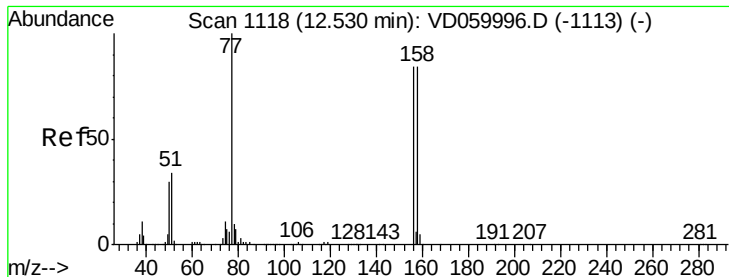
77 33.7 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.561 ug/l

RT: 12.54 min Scan# 1120

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

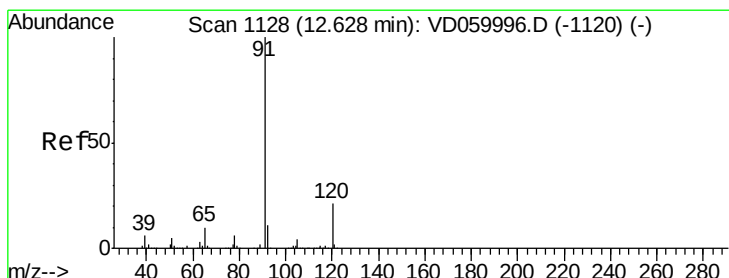
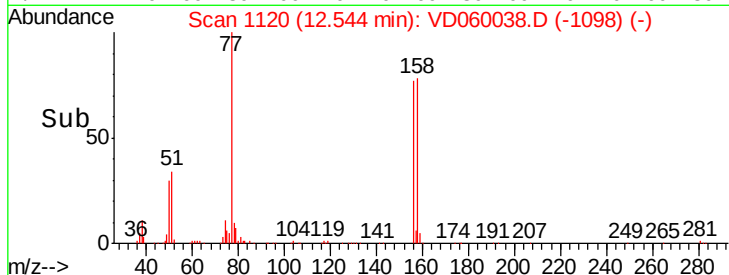
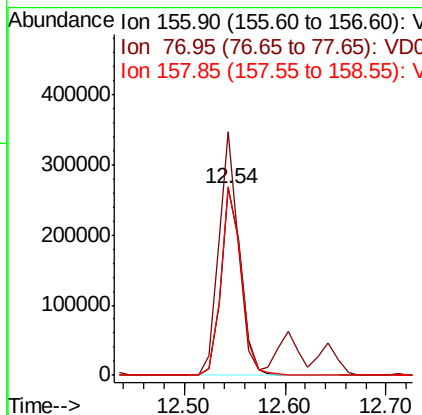
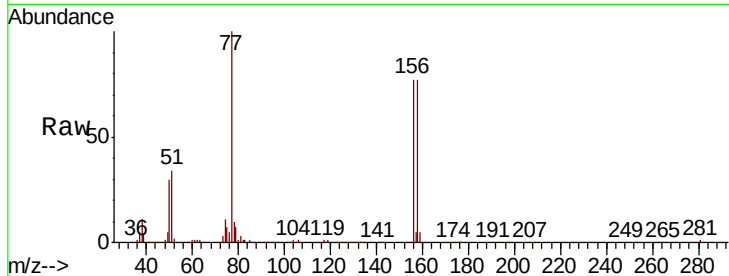
ClientSampleId :

VD0919SBS01

Tot Ion:	156	Resp:	375974
Ion Ratio	Lower	Upper	
156	100		
77	130.1	59.5	178.4
158	100.5	50.0	149.8

Manual Integrations
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#78

n-propylbenzene

Concen: 21.549 ug/l

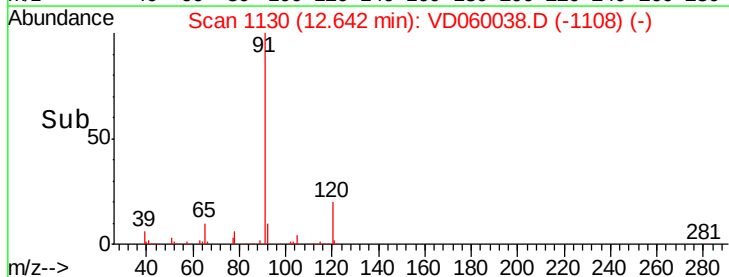
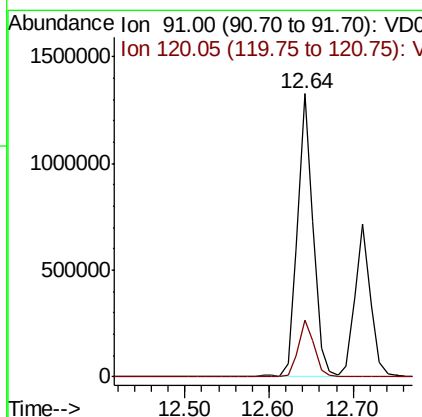
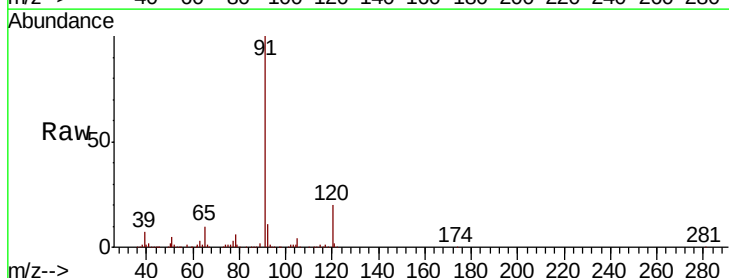
RT: 12.64 min Scan# 1130

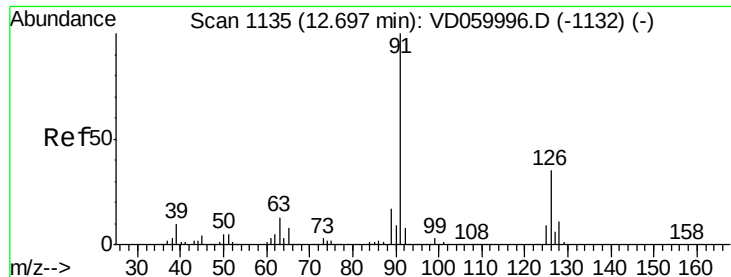
Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion:	91	Resp:	1720233
Ion Ratio	Lower	Upper	
91	100		
120	19.9	10.7	31.9





#79

2-Chlorotoluene

Concen: 20.205 ug/l

RT: 12.71 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0919SBS01

Tot Ion: 91 Resp: 910390

Ion Ratio Lower Upper

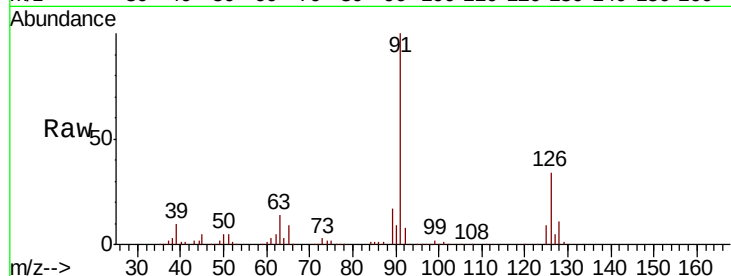
91 100

126 33.8 17.3 52.0

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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

1500000

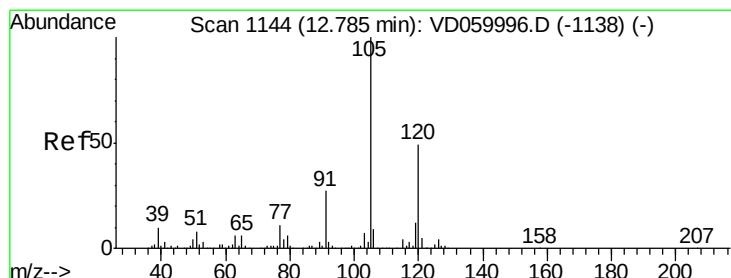
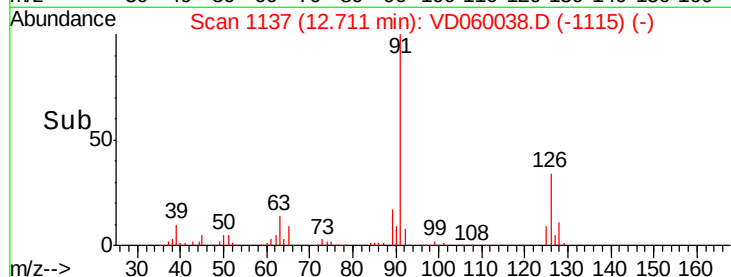
1000000

500000

0

12.65 12.70 12.75

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.762 ug/l

RT: 12.80 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VD060038.D

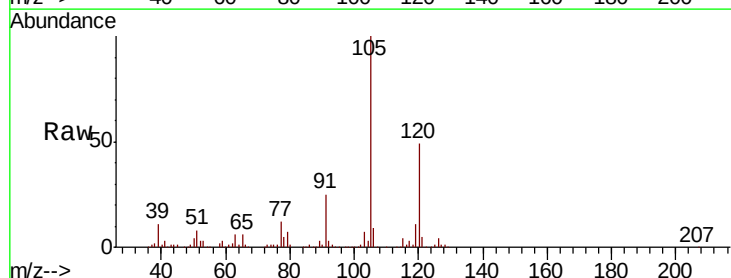
Acq: 19 Sep 2018 12:03

Tgt Ion: 105 Resp: 1058878

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

800000

600000

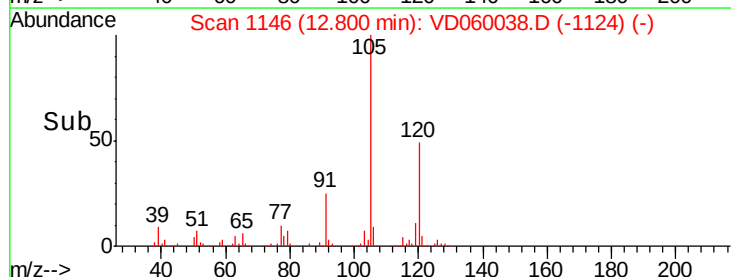
400000

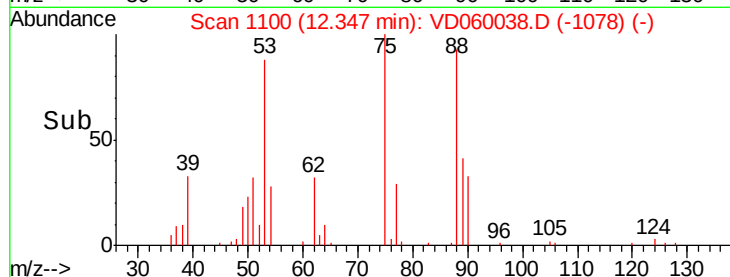
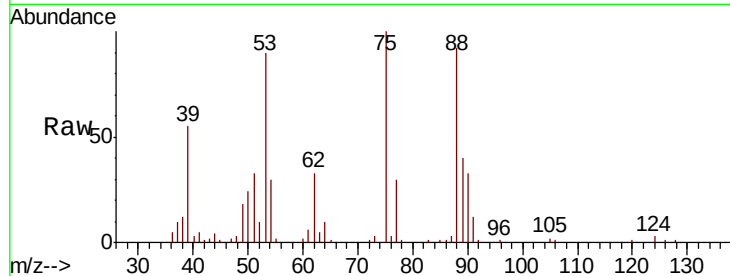
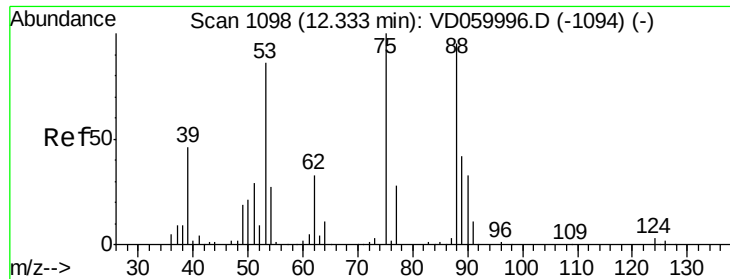
200000

0

12.80 12.90

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.635 ug/l

RT: 12.35 min Scan# 1100

Delta R.T. 0.01 min

Lab File: VD060038.D

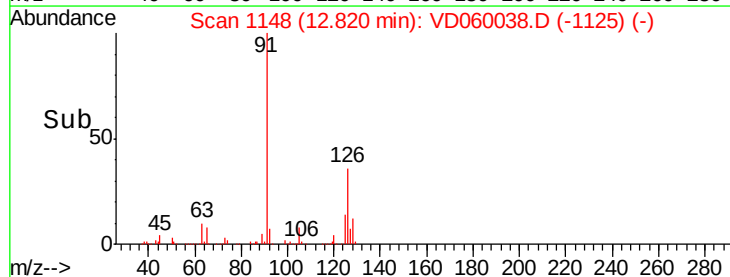
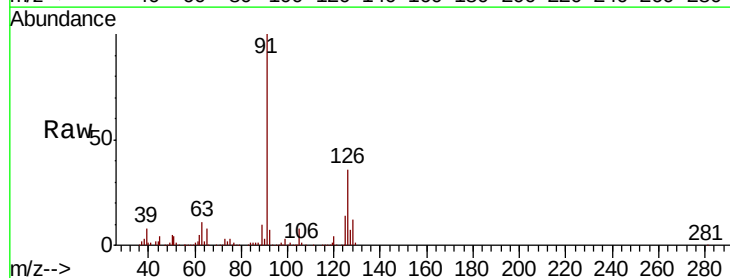
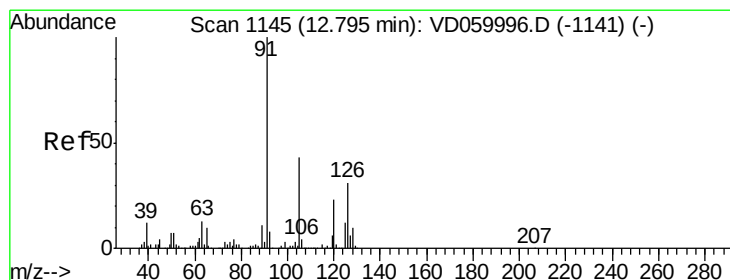
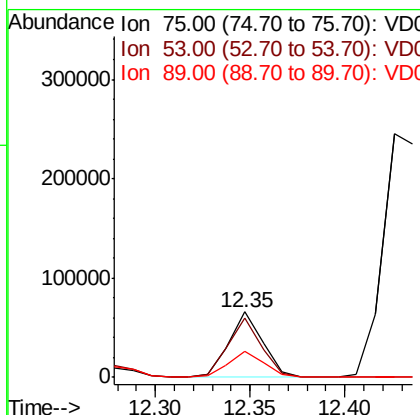
Acq: 19 Sep 2018 12:03

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.6	68.4	102.6
89	40.4	33.8	50.6

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.483 ug/l

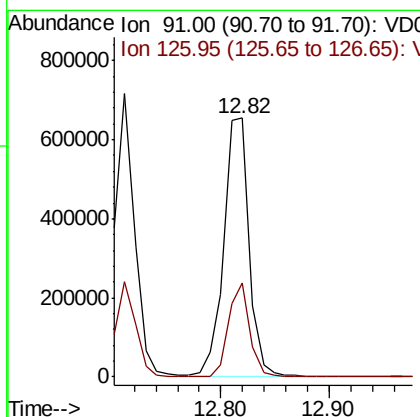
RT: 12.82 min Scan# 1148

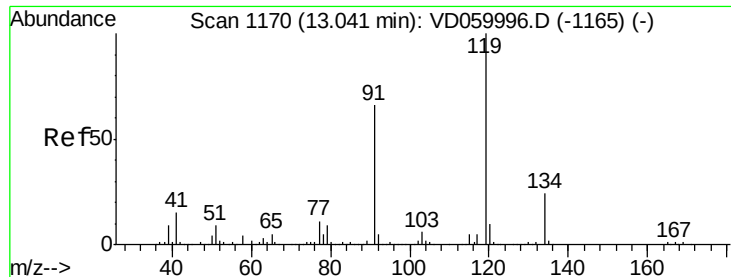
Delta R.T. 0.02 min

Lab File: VD060038.D

Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.4	15.4	46.1





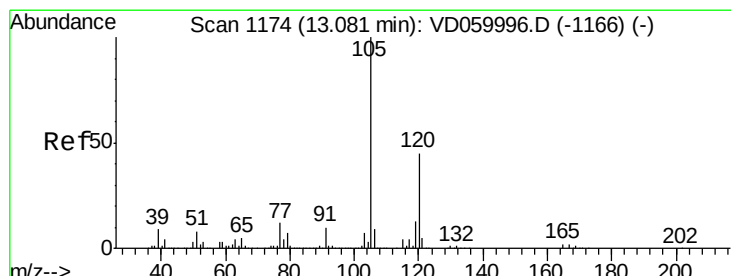
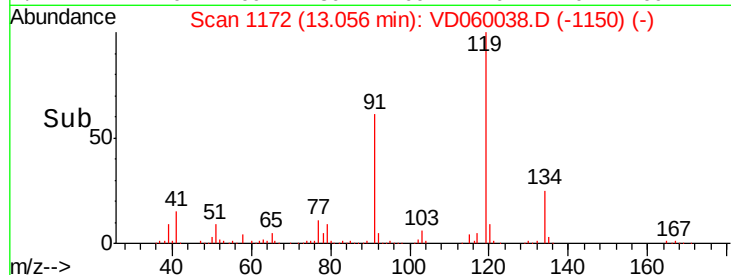
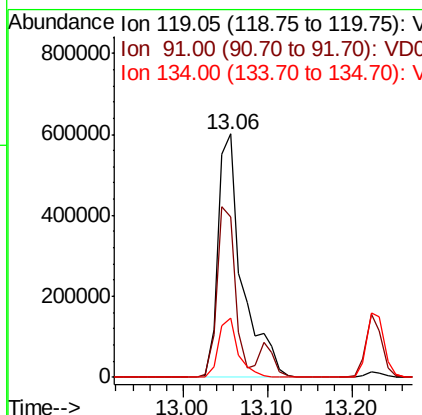
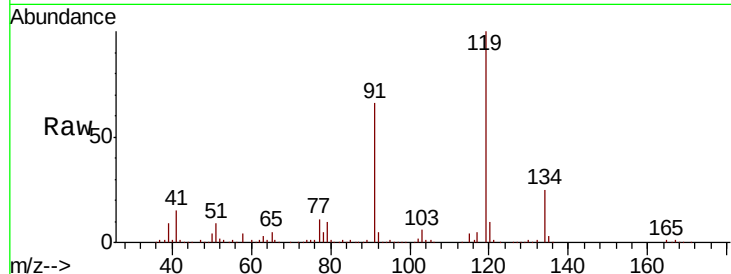
#83
 tert-Butylbenzene
 Concen: 21.361 ug/l
 RT: 13.06 min Scan# 1172
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.1	32.9	98.6
134	24.6	12.0	36.0

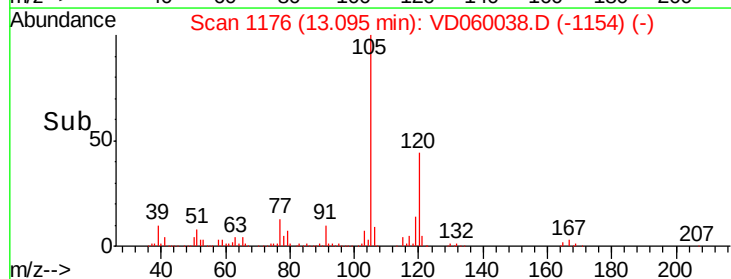
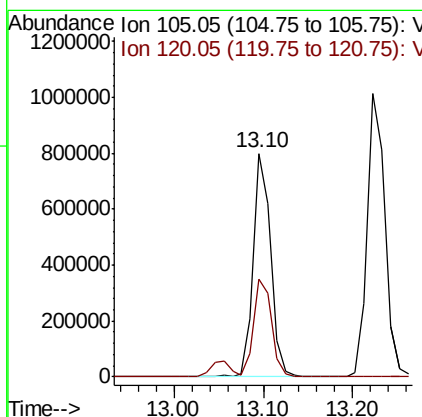
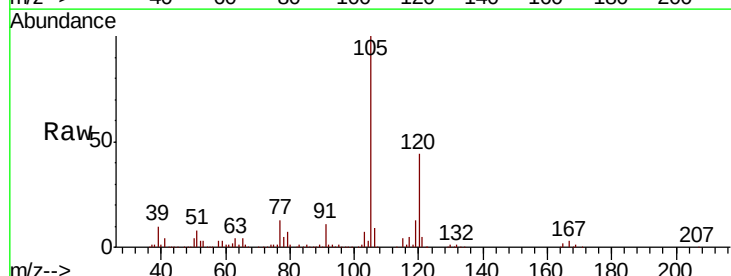
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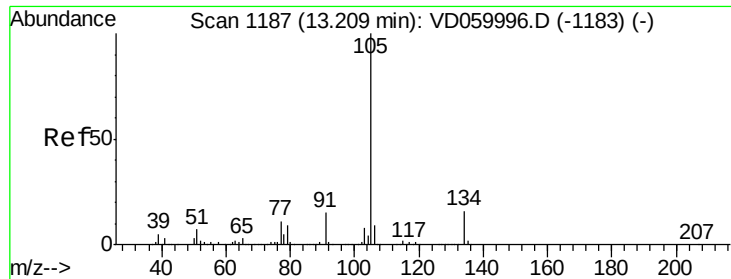
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.710 ug/l
 RT: 13.10 min Scan# 1176
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.4	67.0





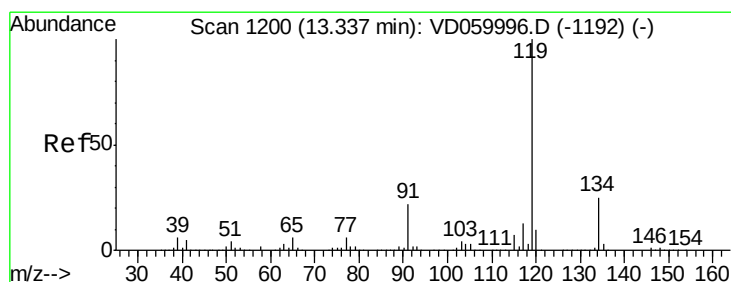
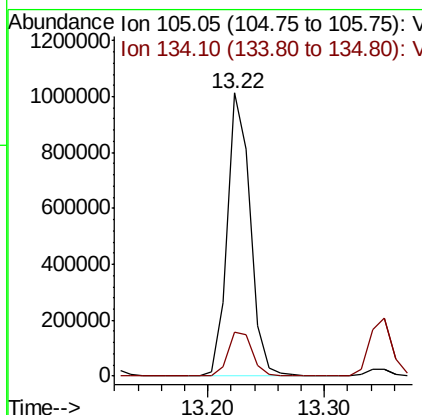
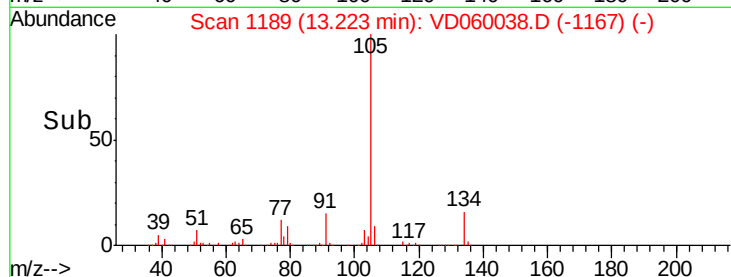
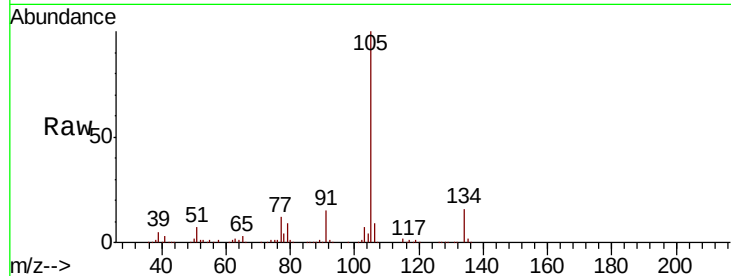
#85
 sec-Butylbenzene
 Concen: 20.580 ug/l
 RT: 13.22 min Scan# 1189
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion:105 Resp: 1377054
 Ion Ratio Lower Upper
 105 100
 134 15.6 8.2 24.6

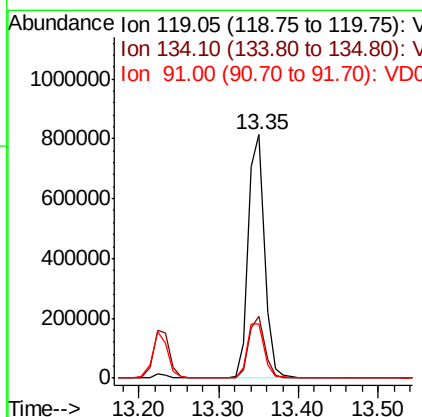
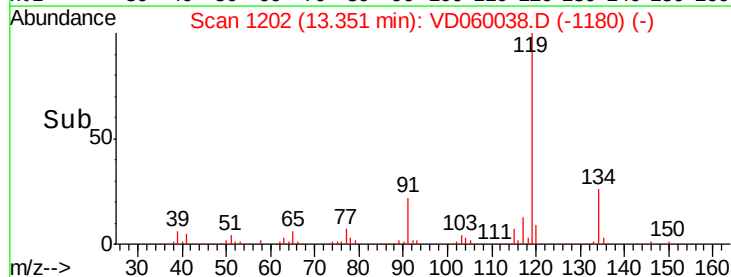
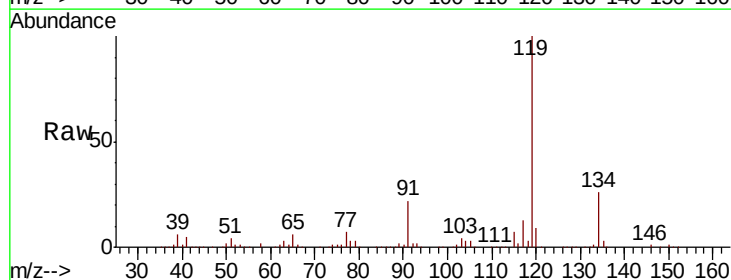
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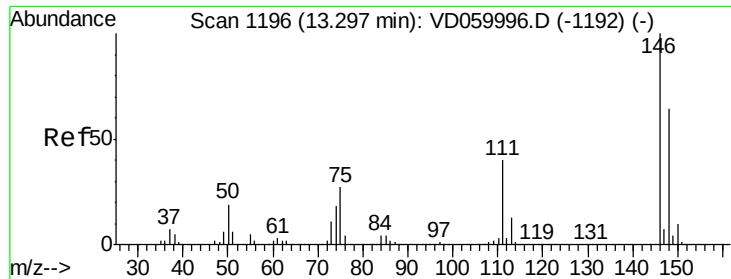
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#86
 p-Isopropyltoluene
 Concen: 20.866 ug/l
 RT: 13.35 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion:119 Resp: 1129257
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.8 38.3
 91 22.4 11.1 33.3





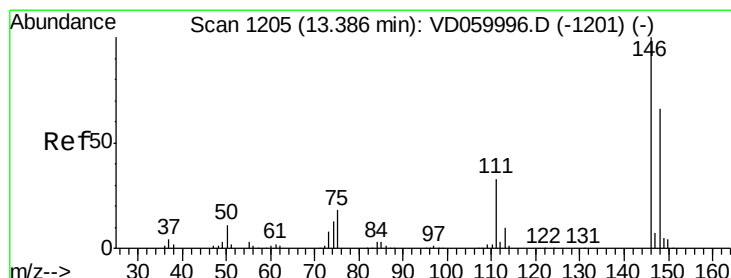
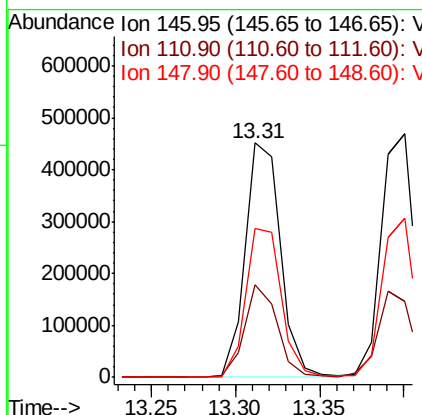
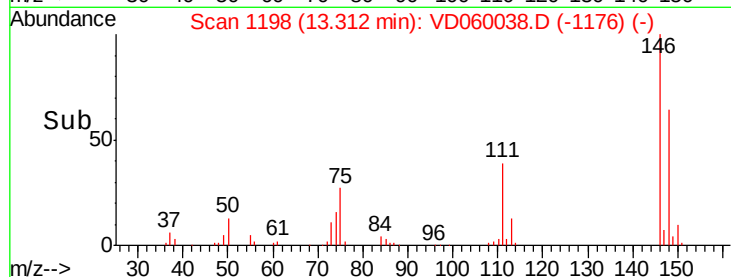
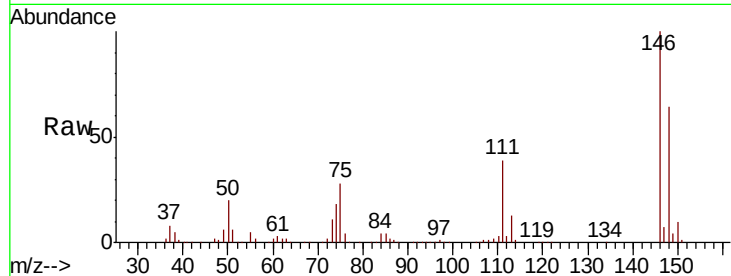
#87
 1,3-Dichlorobenzene
 Concen: 20.739 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.2	60.5
148	63.7	32.0	96.2

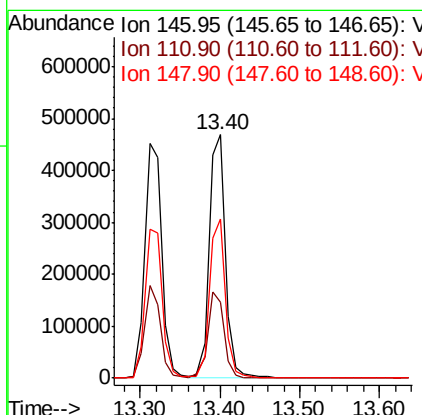
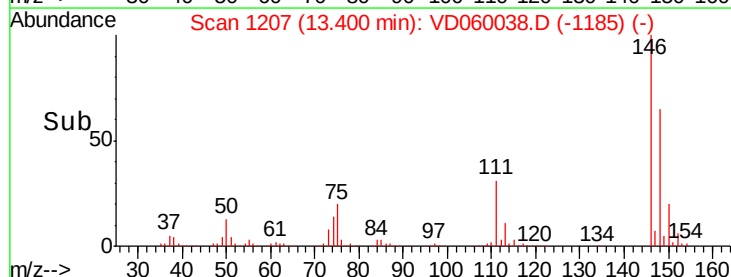
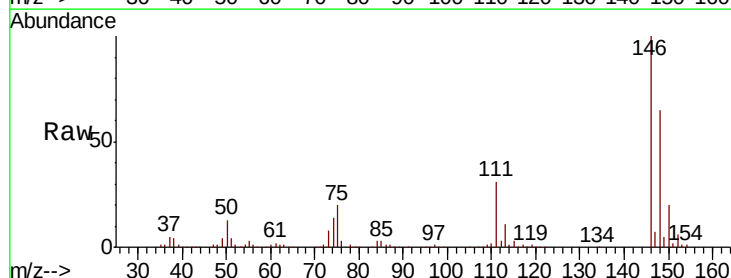
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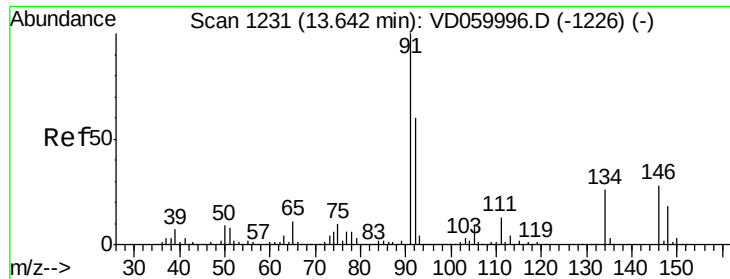
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#88
 1,4-Dichlorobenzene
 Concen: 20.665 ug/l
 RT: 13.40 min Scan# 1207
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	31.0	16.7	50.0
148	65.4	32.9	98.6





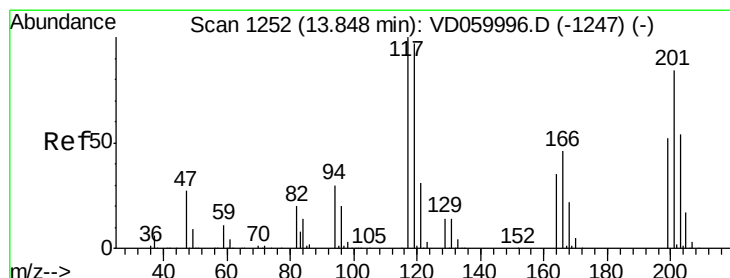
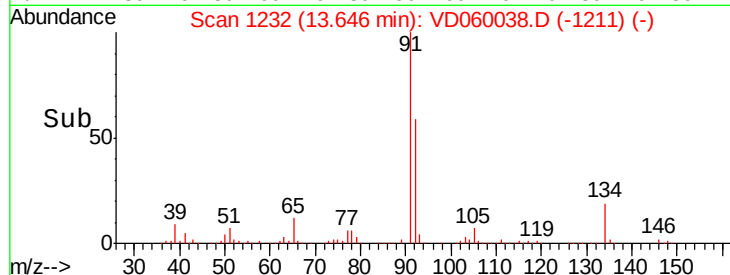
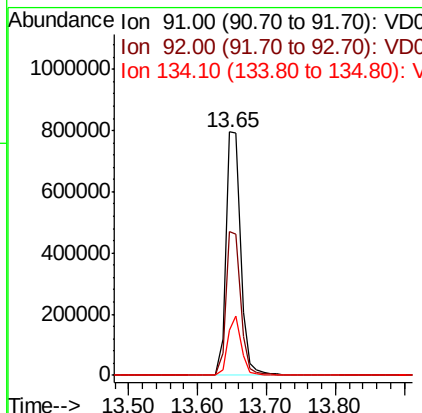
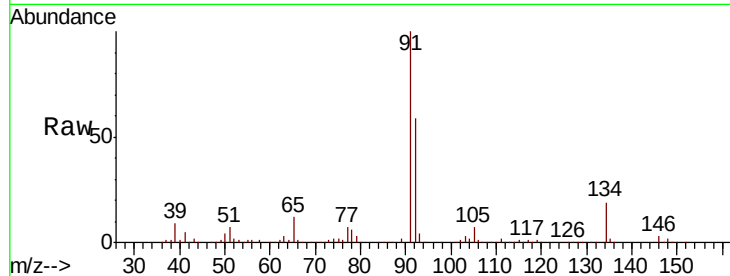
#89
n-Butylbenzene
Concen: 20.130 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion: 91 Resp: 1180843
Ion Ratio Lower Upper
91 100
92 58.9 29.8 89.3
134 18.8 13.2 39.6

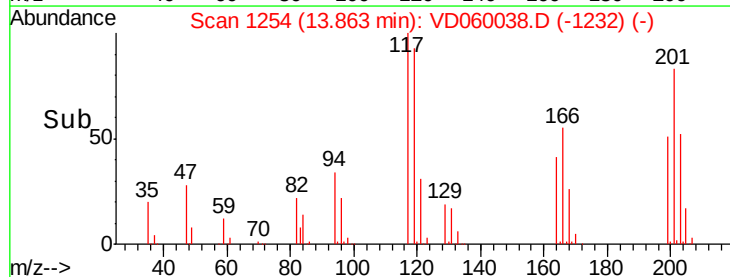
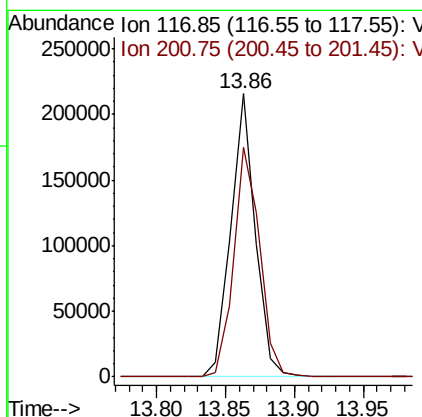
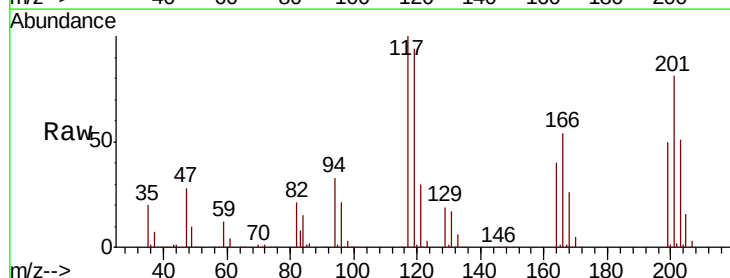
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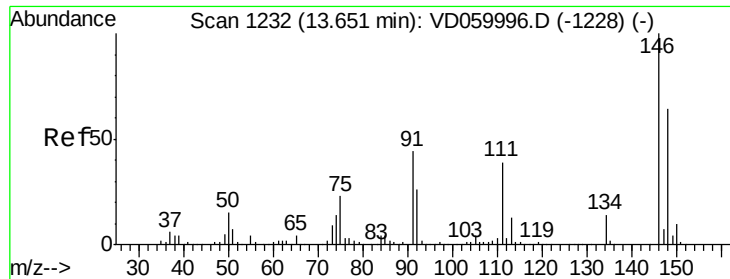
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#90
Hexachloroethane
Concen: 19.816 ug/l
RT: 13.86 min Scan# 1254
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion: 117 Resp: 265618
Ion Ratio Lower Upper
117 100
201 81.3 42.1 126.4





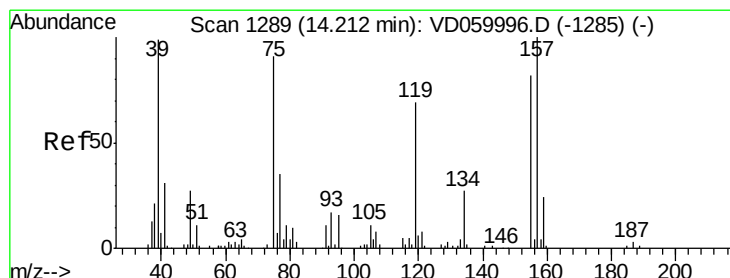
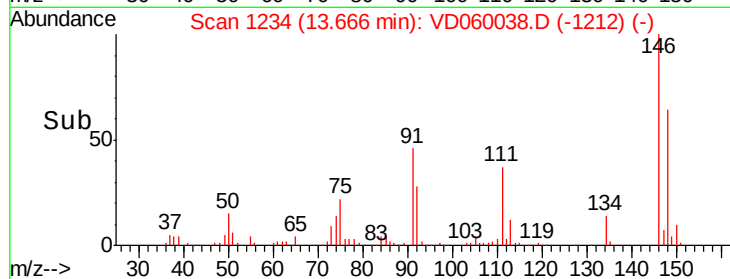
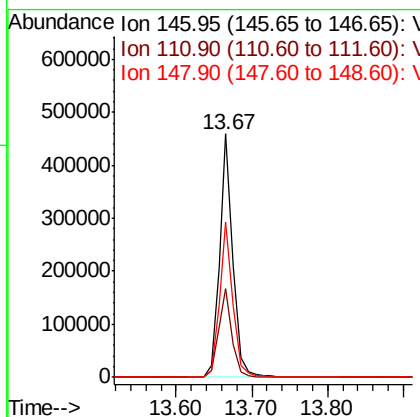
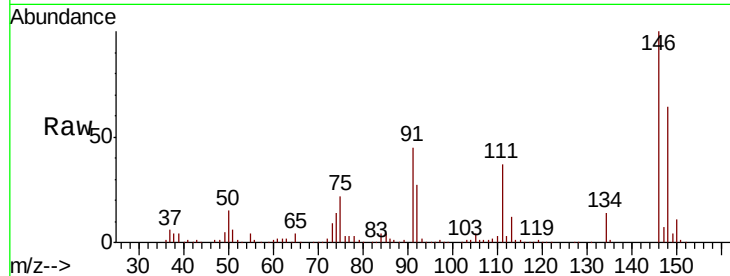
#91
 1,2-Dichlorobenzene
 Concen: 19.078 ug/l
 RT: 13.67 min Scan# 1234
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	19.6	58.7
148	63.7	31.9	95.7

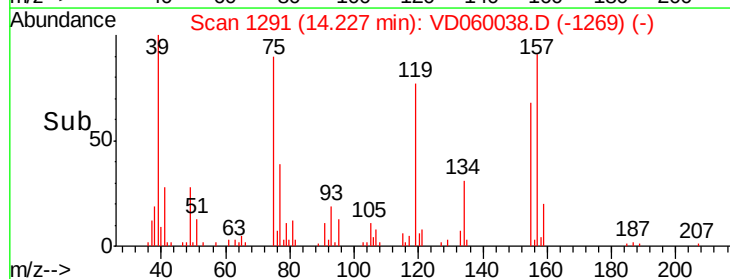
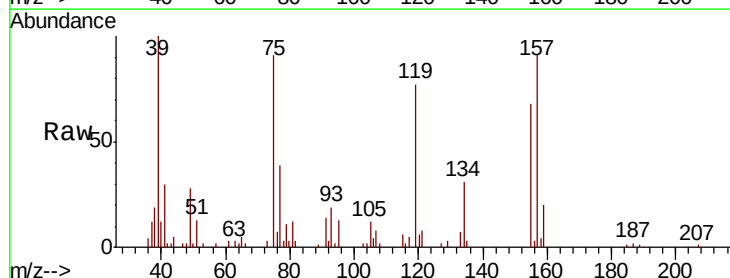
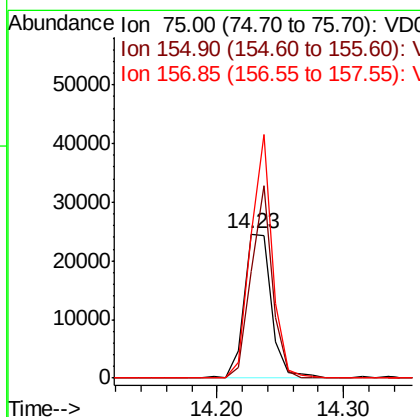
Manual Integrations
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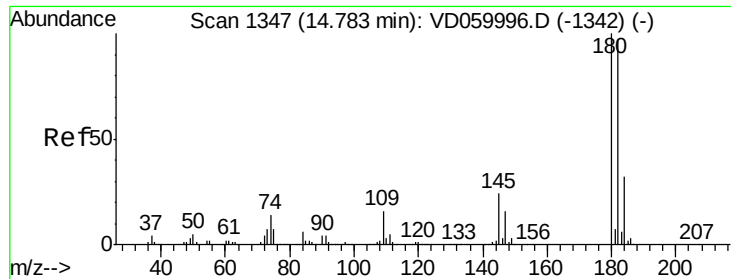
MMDadoda
 9/21/2018 5:02:14 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.716 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.4	44.7	134.1
157	100.0	54.7	164.1





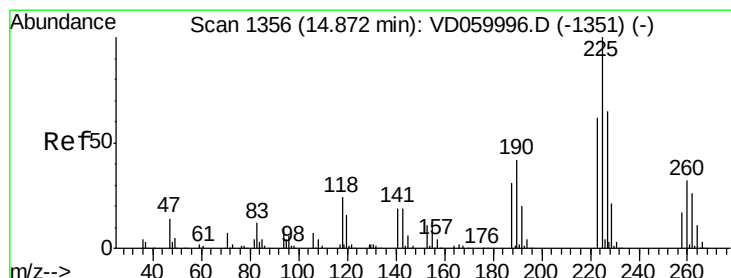
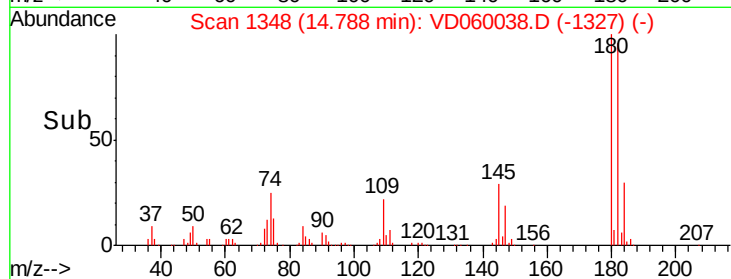
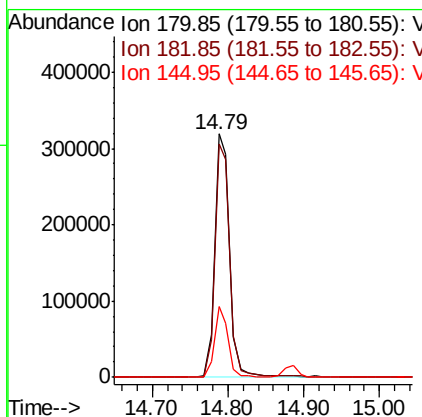
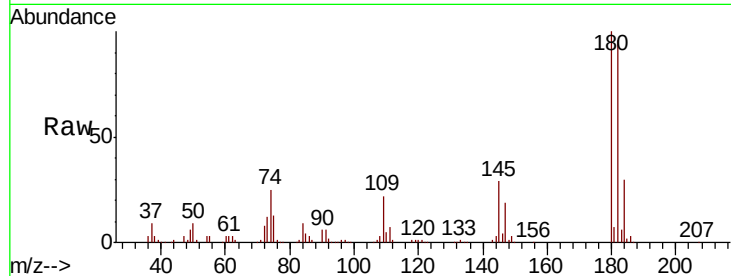
#93
 1,2,4-Trichlorobenzene
 Concen: 19.771 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0919SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.5	145.6
145	29.2	11.9	35.7

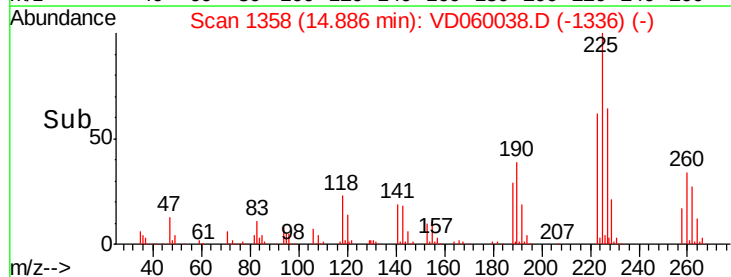
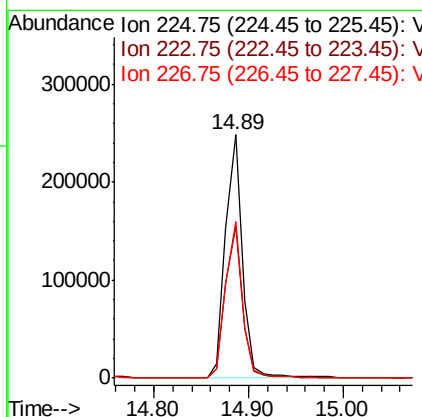
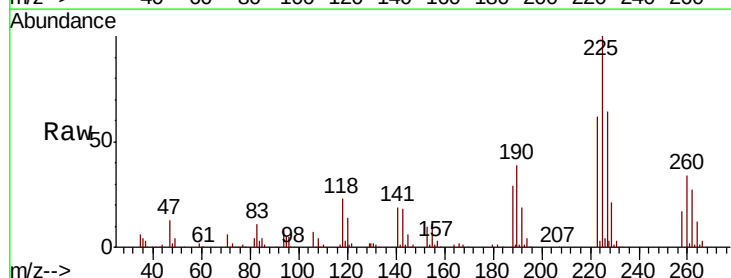
Manual Integrations
 APPROVED

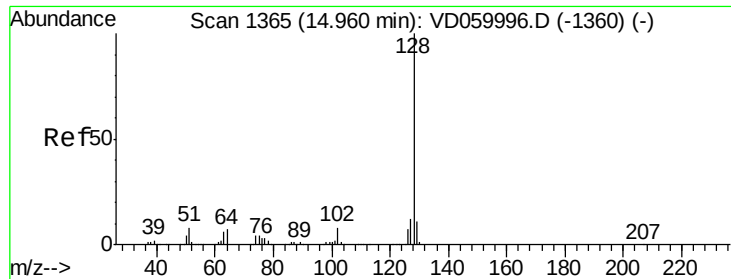
MMDadoda
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#94
 Hexachlorobutadiene
 Concen: 20.730 ug/l
 RT: 14.89 min Scan# 1358
 Delta R.T. 0.01 min
 Lab File: VD060038.D
 Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.2	93.6
227	64.4	32.3	96.8





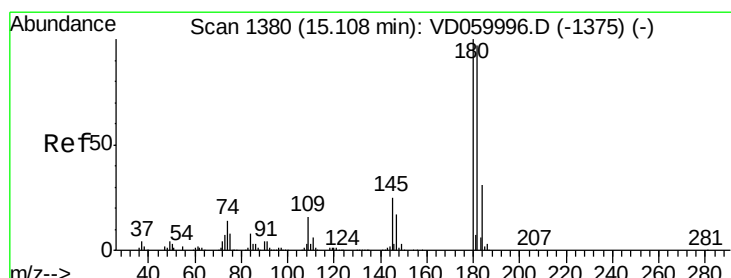
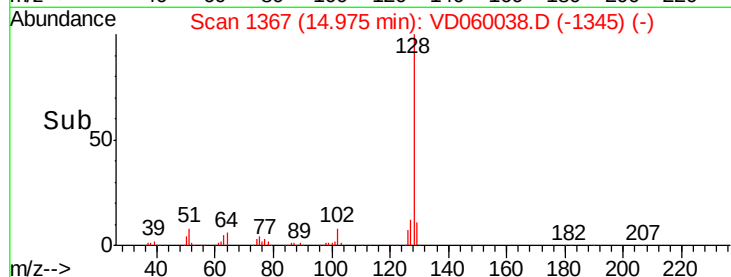
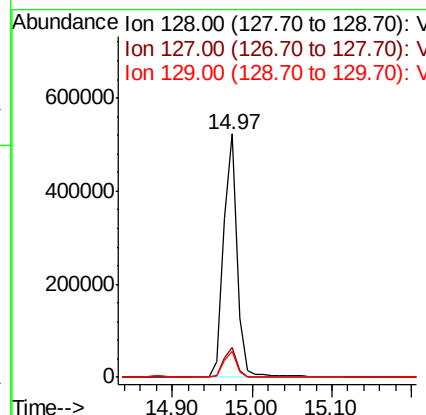
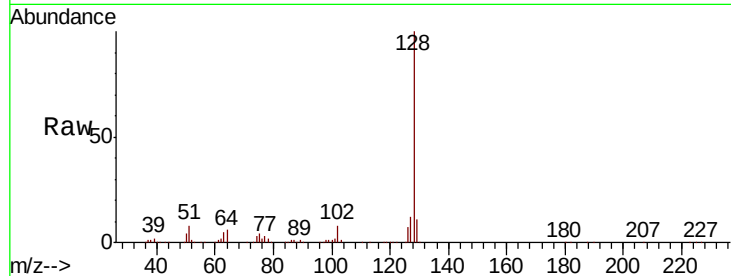
#95
Naphthalene
Concen: 18.202 ug/l
RT: 14.97 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0919SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	637002		
127	12.4		9.7	14.5
129	10.6		8.9	13.3

Manual Integrations
APPROVED

MMDadoda
9/21/2018 5:02:14 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.205 ug/l
RT: 15.12 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VD060038.D
Acq: 19 Sep 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	383511		
182	97.8		48.6	145.9
145	26.0		12.7	38.1

