

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030419\
 Data File : VD060917.D
 Acq On : 4 Mar 2019 11:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:49:08 AM

Quant Time: Mar 05 02:05:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	753966	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.24	114	1305310	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	1121039	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	461504	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	345576	55.44	ug/l	0.04
Spiked Amount	50.000		Recovery	=	110.88%	
35) Dibromofluoromethane	6.95	113	564742	53.97	ug/l	0.04
Spiked Amount	50.000		Recovery	=	107.94%	
50) Toluene-d8	10.44	98	1449496	55.67	ug/l	0.04
Spiked Amount	50.000		Recovery	=	111.34%	
62) 4-Bromofluorobenzene	13.57	95	525822	53.44	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.60	85	418573	50.103	ug/l	98
3) Chloromethane	1.78	50	331300	47.788	ug/l	96
4) Vinyl Chloride	1.87	62	313382	50.034	ug/l	97
5) Bromomethane	2.18	94	54286	49.068	ug/l	95
6) Chloroethane	2.30	64	93507	61.965	ug/l	99
7) Trichlorofluoromethane	2.55	101	393394	52.328	ug/l	99
8) Diethyl Ether	2.90	74	162193	48.913	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.18	101	512547	50.264	ug/l	99
10) Methyl Iodide	3.34	142	675672	46.401	ug/l	98
11) Tert butyl alcohol	4.10	59	117554	253.050	ug/l	100
12) 1,1-Dichloroethene	3.15	96	420833	48.654	ug/l	96
13) Acrolein	3.06	56	143196	222.591	ug/l	100
14) Allyl chloride	3.66	41	709520	50.291	ug/l	99
15) Acrylonitrile	4.23	53	410902	231.007	ug/l	97
16) Acetone	3.25	43	551376	264.943	ug/l	100
17) Carbon Disulfide	3.41	76	1534514	50.048	ug/l	100
18) Methyl Acetate	3.68	43	198841	46.663	ug/l	98
19) Methyl tert-butyl Ether	4.28	73	746678	49.078	ug/l	99
20) Methylene Chloride	3.84	84	492042	49.797	ug/l	99
21) trans-1,2-Dichloroethene	4.26	96	490856	52.128	ug/l	99
22) Diisopropyl ether	5.15	45	1399227	46.709	ug/l	95
23) Vinyl Acetate	5.09	43	3585403	227.910	ug/l	99
24) 1,1-Dichloroethane	5.02	63	806454	50.477	ug/l	99
25) 2-Butanone	6.11	43	621181	240.615	ug/l	100
26) 2,2-Dichloropropane	6.06	77	606283	51.082	ug/l	99
27) cis-1,2-Dichloroethene	6.08	96	506589	47.448	ug/l	98
28) Bromochloromethane	6.47	49	307221	45.780	ug/l #	95
29) Tetrahydrofuran	6.49	42	298689	224.773	ug/l	99
30) Chloroform	6.70	83	753520	48.628	ug/l	98
31) Cyclohexane	6.98	56	668339	48.570	ug/l	99
32) 1,1,1-Trichloroethane	6.90	97	684559	51.592	ug/l	99
36) 1,1-Dichloropropene	7.18	75	611896	50.985	ug/l	98
37) Ethyl Acetate	6.22	43	284769	46.157	ug/l	96
38) Carbon Tetrachloride	7.14	117	691589	53.638	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.89	83	651038	49.626	ug/l	98
40) Benzene	7.48	78	1544157	50.522	ug/l	99
41) Methacrylonitrile	6.47	41	145503m	37.751	ug/l	
42) 1,2-Dichloroethane	7.60	62	423612	49.259	ug/l	100
43) Isopropyl Acetate	9.27	43	394385	45.848	ug/l	98
44) Trichloroethene	8.57	130	560879	53.584	ug/l	96
45) 1,2-Dichloropropane	8.96	63	410522	50.734	ug/l	97
46) Dibromomethane	9.09	93	270599	51.846	ug/l	98
47) Bromodichloromethane	9.39	83	599807	52.685	ug/l	99
48) Methyl methacrylate	9.15	41	239404	49.537	ug/l	100
49) 1,4-Dioxane	9.10	88	53855	1064.473	ug/l	96
51) 4-Methyl-2-Pentanone	10.32	43	1220427	233.032	ug/l	100
52) Toluene	10.54	92	930668	47.395	ug/l	99
53) t-1,3-Dichloropropene	10.93	75	545631	52.080	ug/l	100
54) cis-1,3-Dichloropropene	10.06	75	668181	51.434	ug/l	97
55) 1,1,2-Trichloroethane	11.21	97	309323	47.634	ug/l	99
56) Ethyl methacrylate	11.06	69	335141	48.683	ug/l	97
57) 1,3-Dichloropropane	11.43	76	492502	52.165	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.88	63	787313	214.140	ug/l	100
59) 2-Hexanone	11.55	43	949720	258.692	ug/l	99
60) Dibromochloromethane	11.71	129	462706	49.405	ug/l	97
61) 1,2-Dibromoethane	11.83	107	369648	48.454	ug/l	97
64) Tetrachloroethene	11.28	164	407473	47.483	ug/l	97
65) Chlorobenzene	12.42	112	1234273	49.453	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.53	131	432480	48.287	ug/l	99
67) Ethyl Benzene	12.54	91	1712836	47.132	ug/l	99
68) m/p-Xylenes	12.68	106	1265034	87.127	ug/l	96
69) o-Xylene	13.07	106	639797	46.910	ug/l	93
70) Styrene	13.09	104	1040557	45.728	ug/l	99
71) Bromoform	13.24	173	280672	49.512	ug/l	98
73) Isopropylbenzene	13.42	105	1632498	45.784	ug/l	100
74) N-amyl acetate	13.27	43	523548	49.154	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.72	83	337482	45.636	ug/l	99
76) 1,2,3-Trichloropropane	13.75	75	373292	49.921	ug/l	99
77) Bromobenzene	13.69	156	451511	48.445	ug/l	95
78) n-propylbenzene	13.79	91	2111118	51.462	ug/l	100
79) 2-Chlorotoluene	13.85	91	1052639	44.929	ug/l	100
80) 1,3,5-Trimethylbenzene	14.25	105	1307666	48.359	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.49	75	114039	51.531	ug/l	98
82) 4-Chlorotoluene	13.96	91	1291240	50.248	ug/l	99
83) tert-Butylbenzene	14.20	119	1609766	51.994	ug/l	93
84) 1,2,4-Trimethylbenzene	14.25	105	1307666	48.359	ug/l	96
85) sec-Butylbenzene	14.38	105	1776886	49.506	ug/l	95
86) p-Isopropyltoluene	14.50	119	1524071	52.132	ug/l	99
87) 1,3-Dichlorobenzene	14.46	146	844613	53.341	ug/l	96
88) 1,4-Dichlorobenzene	14.55	146	827774	52.642	ug/l	98
89) n-Butylbenzene	14.81	91	1398080	56.363	ug/l	98
90) Hexachloroethane	15.02	117	417952	49.572	ug/l	74
91) 1,2-Dichlorobenzene	14.82	146	686451	50.036	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.39	75	43106	49.814	ug/l	77

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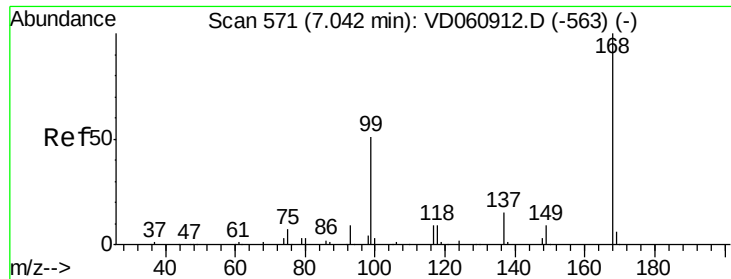
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	352054	44.194	ug/l	97
94) Hexachlorobutadiene	16.05	225	271803	53.159	ug/l	99
95) Naphthalene	16.14	128	567718	45.766	ug/l	99
96) 1,2,3-Trichlorobenzene	16.29	180	213830	47.799	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 753966

Ion Ratio Lower Upper

168 100

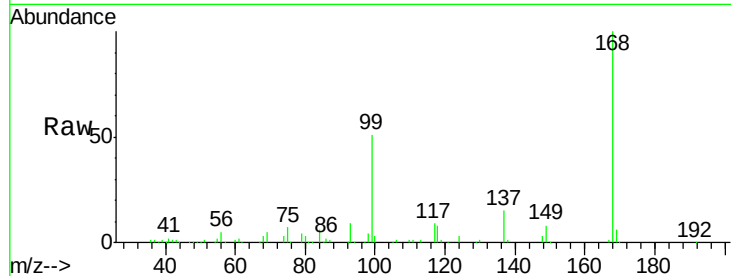
99 51.3 41.5 62.3

Manual Integrations

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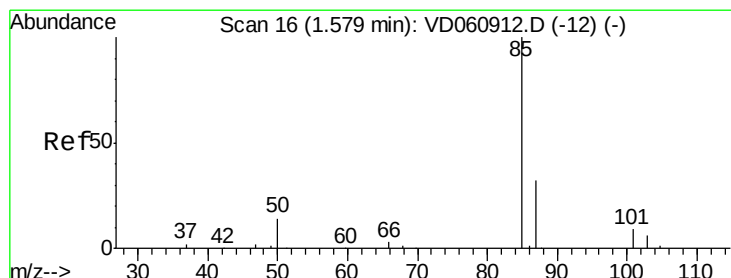
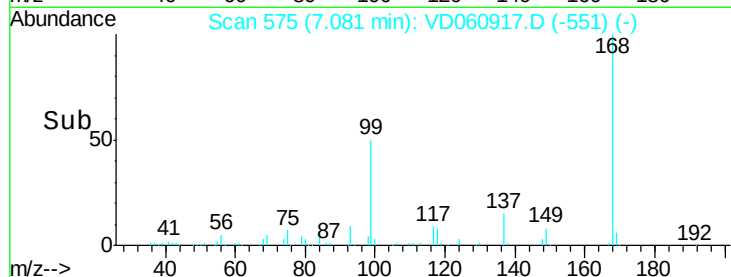
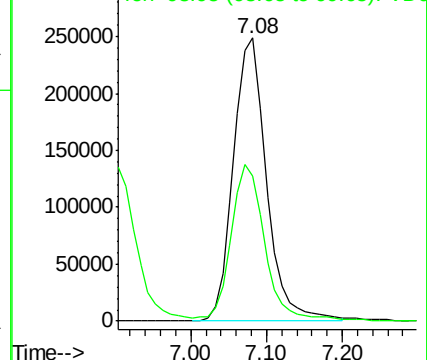
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 50.103 ug/l

RT: 1.60 min Scan# 18

Delta R.T. 0.02 min

Lab File: VD060917.D

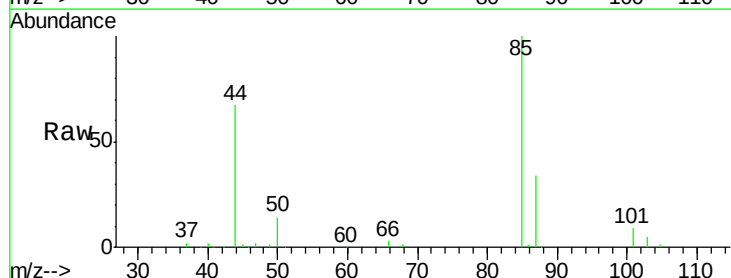
Acq: 4 Mar 2019 11:54

Tgt Ion: 85 Resp: 418573

Ion Ratio Lower Upper

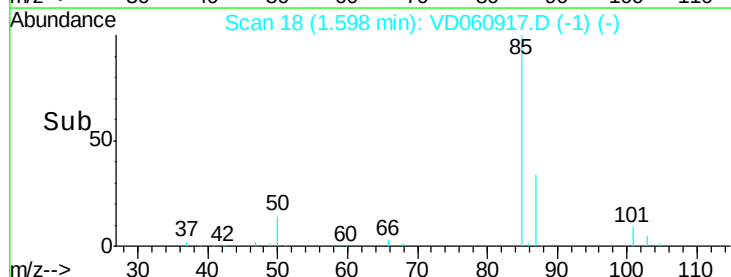
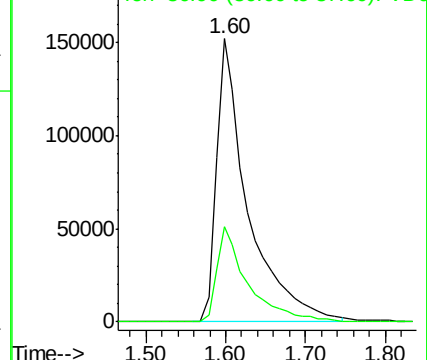
85 100

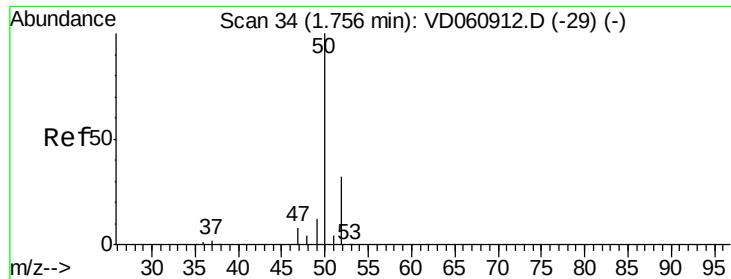
87 33.7 16.3 48.8



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 47.788 ug/l

RT: 1.78 min Scan# 36

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tot Ion: 50 Resp: 331300

Ion Ratio Lower Upper

50 100

52 34.6 25.8 38.6

Instrument :

MSVOA_D

ClientSampleId :

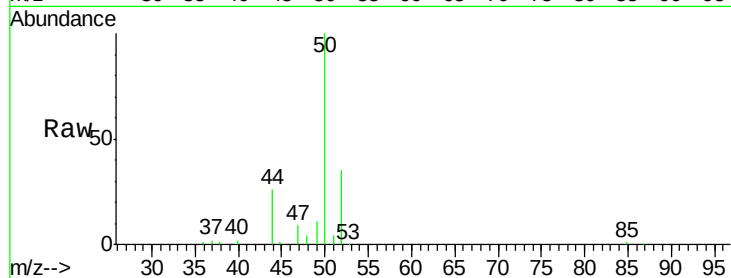
VSTDCCC050

Manual Integrations

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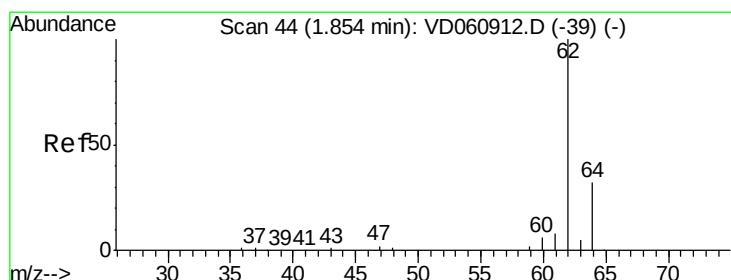
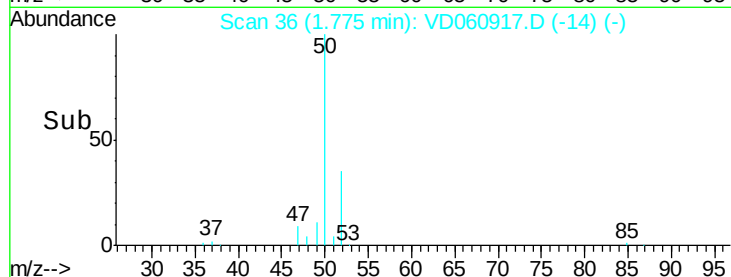
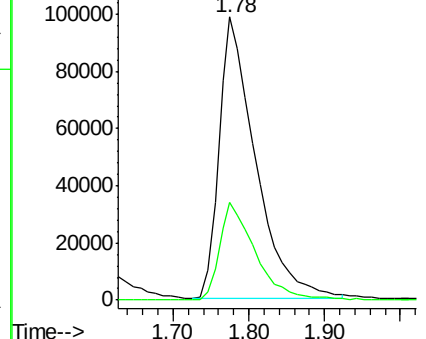
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 50.034 ug/l

RT: 1.87 min Scan# 46

Delta R.T. 0.02 min

Lab File: VD060917.D

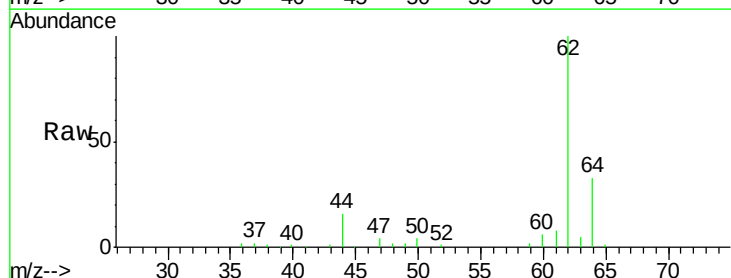
Acq: 4 Mar 2019 11:54

Tgt Ion: 62 Resp: 313382

Ion Ratio Lower Upper

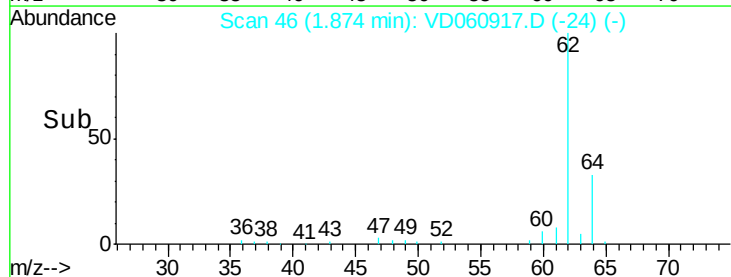
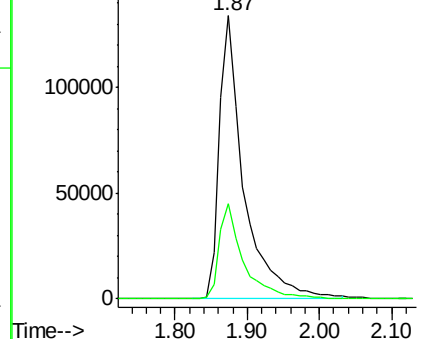
62 100

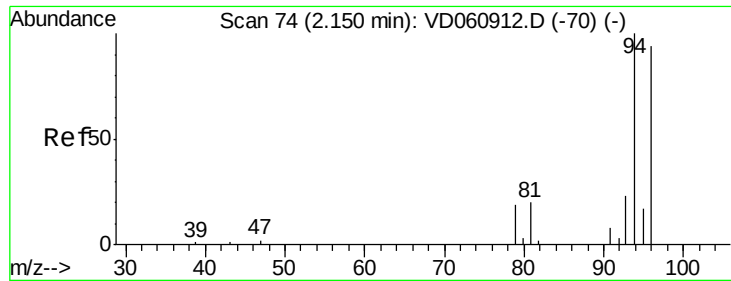
64 33.4 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 49.068 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

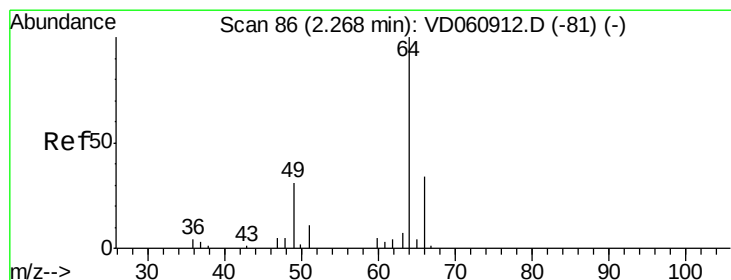
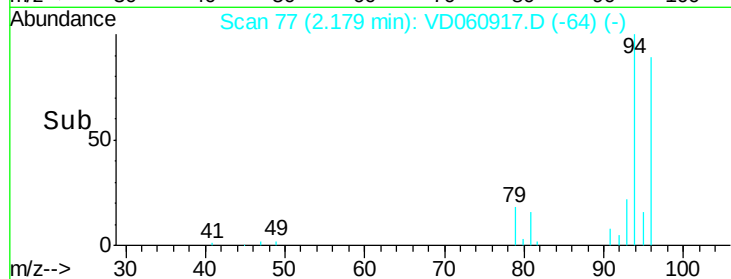
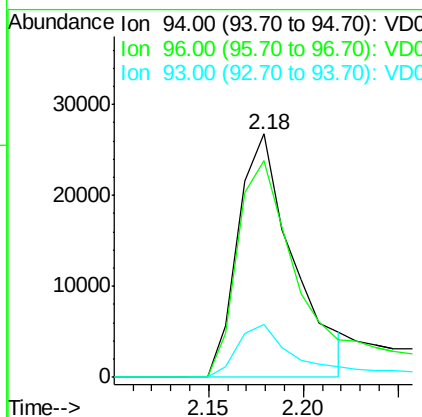
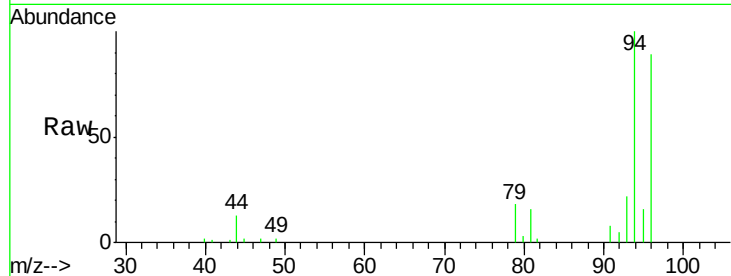
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	54286
Ion	Ratio	Lower	Upper
94	100		
96	89.1	75.1	112.7
93	21.8	18.6	28.0

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#6

Chloroethane

Concen: 61.965 ug/l

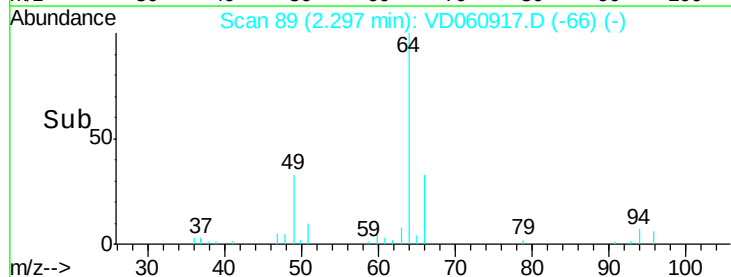
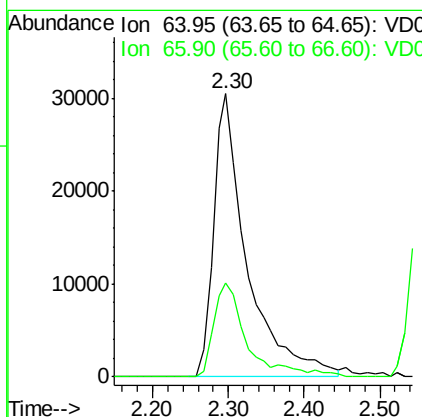
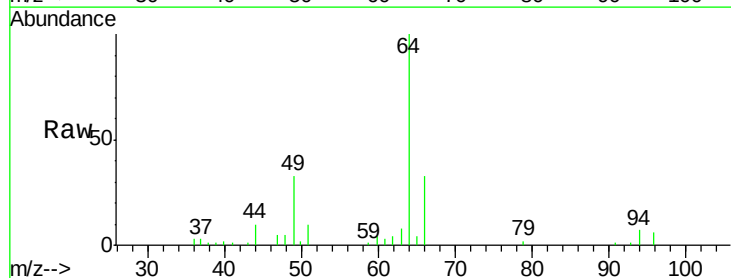
RT: 2.30 min Scan# 89

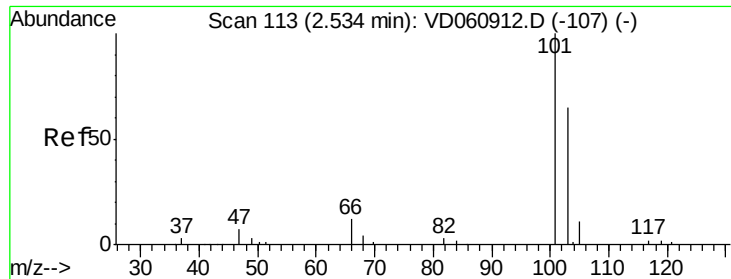
Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:	64	Resp:	93507
Ion	Ratio	Lower	Upper
64	100		
66	33.2	27.0	40.6





#7

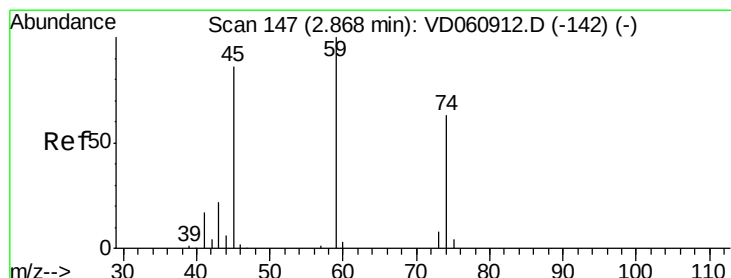
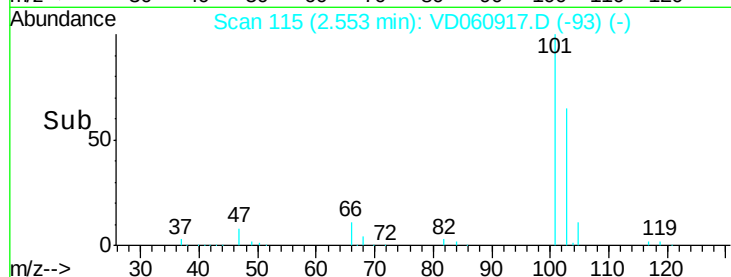
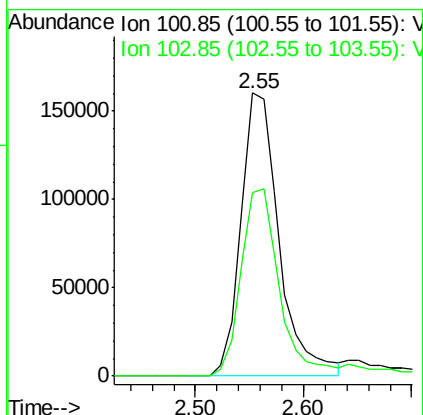
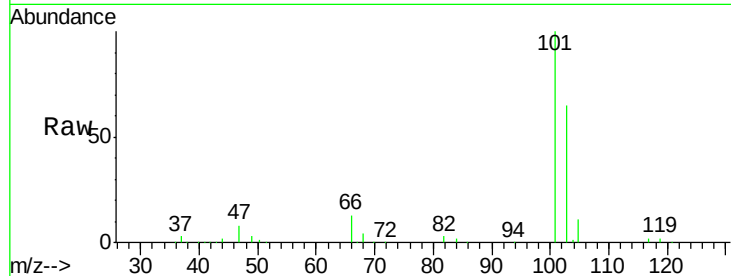
Trichlorofluoromethane
Concen: 52.328 ug/l
RT: 2.55 min Scan# 115
Delta R.T. 0.02 min
Lab File: VD060917.D
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ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 393394
Ion Ratio Lower Upper
101 100
103 64.9 52.4 78.6

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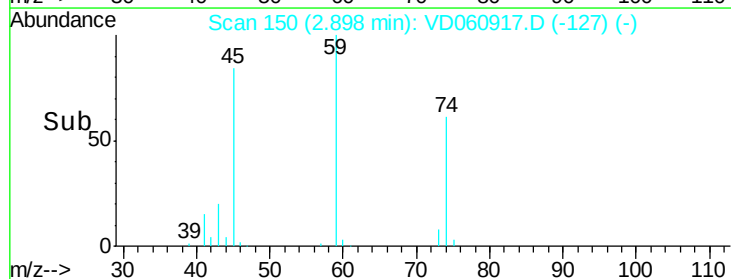
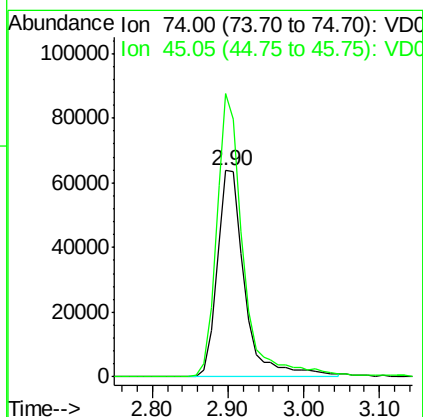
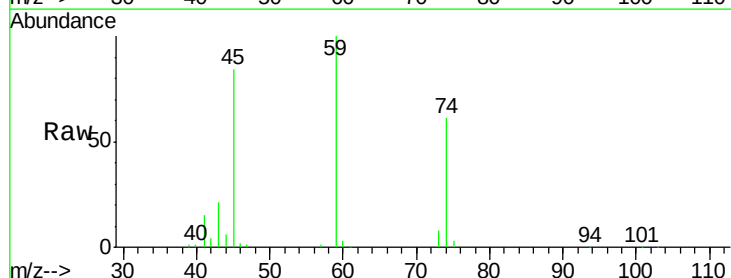
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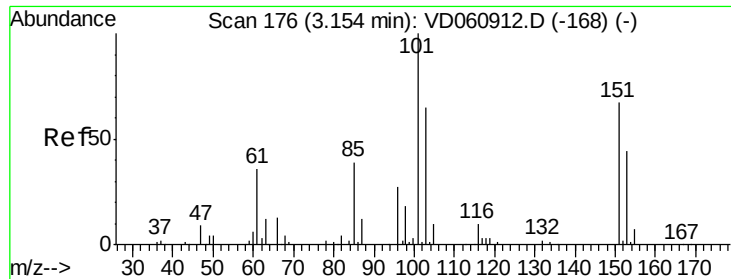


#8

Diethyl Ether
Concen: 48.913 ug/l
RT: 2.90 min Scan# 150
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 74 Resp: 162193
Ion Ratio Lower Upper
74 100
45 137.2 68.8 206.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.264 ug/l

RT: 3.18 min Scan# 179

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

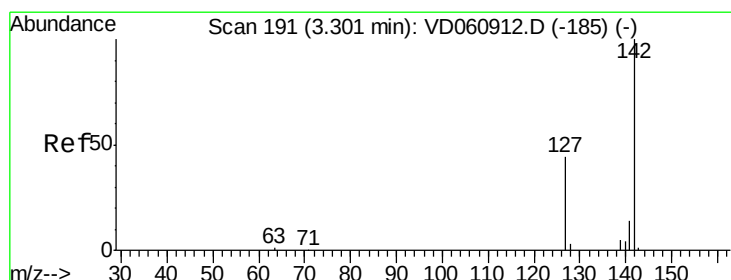
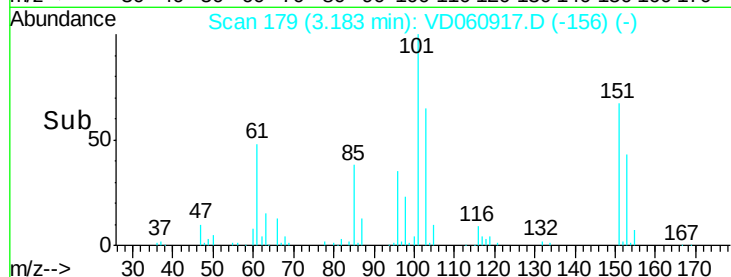
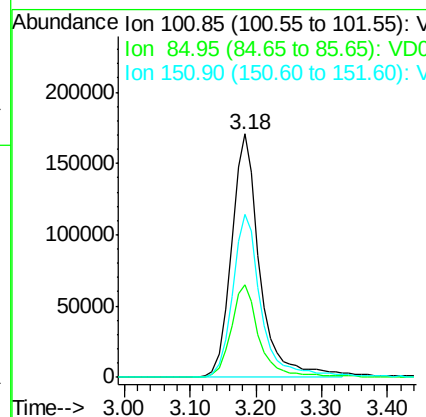
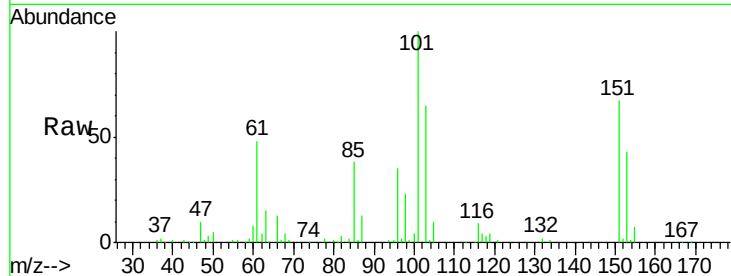
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	512547
Ion Ratio	Lower	Upper	
101	100		
85	38.2	31.0	46.6
151	66.9	53.8	80.6

Manual Integrations
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3/5/2019 10:49:08 AM



#10

Methyl Iodide

Concen: 46.401 ug/l

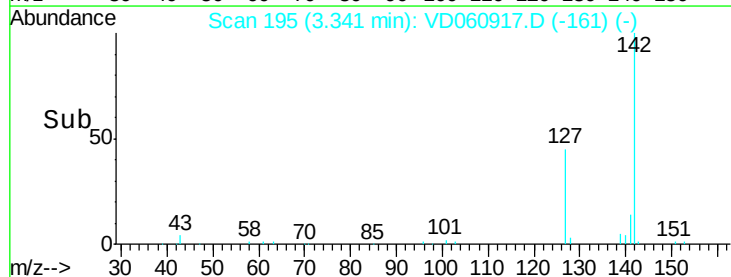
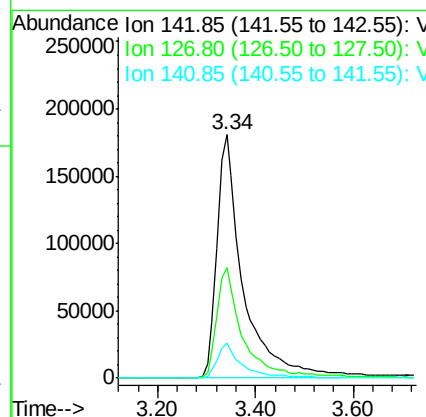
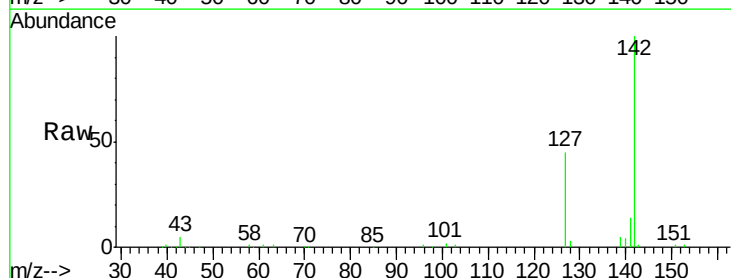
RT: 3.34 min Scan# 195

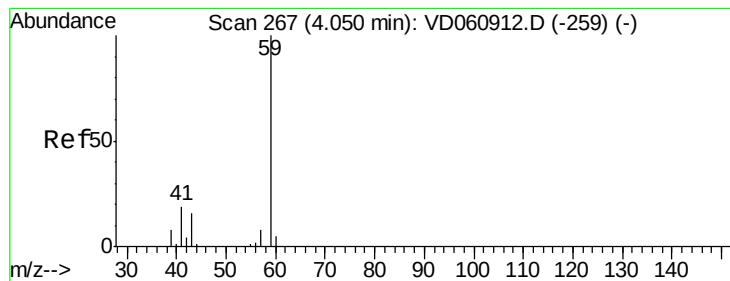
Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:	142	Resp:	675672
Ion Ratio	Lower	Upper	
142	100		
127	45.2	35.0	52.6
141	14.3	11.0	16.4





#11

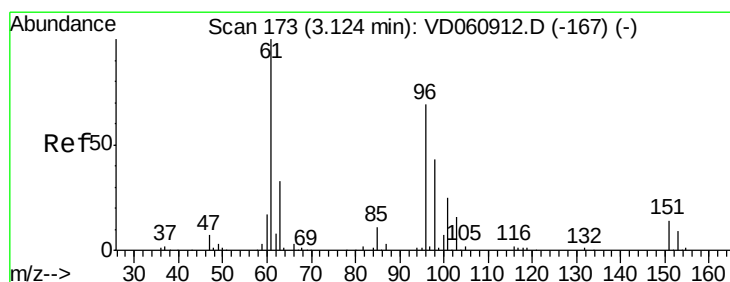
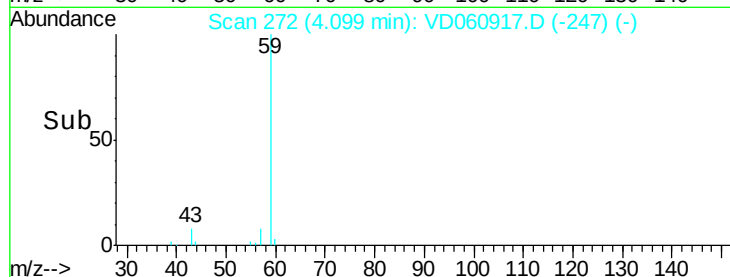
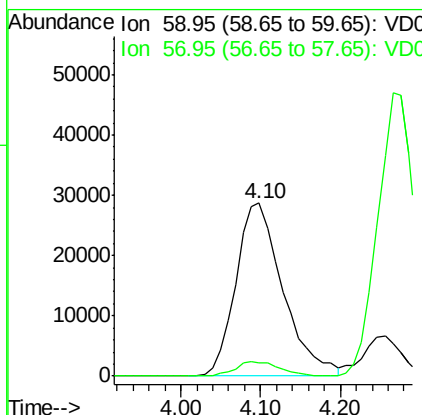
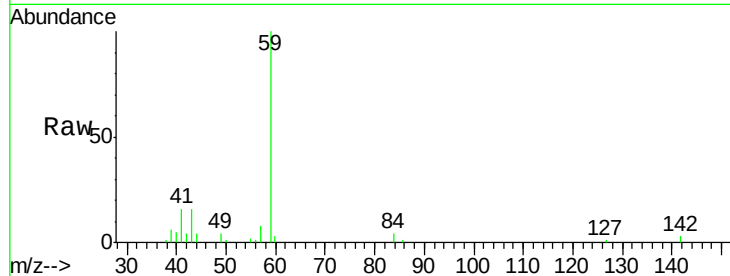
Tert butyl alcohol
Concen: 253.050 ug/l
RT: 4.10 min Scan# 272
Delta R.T. 0.05 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 117554
Ion Ratio Lower Upper
59 100
57 7.9 6.5 9.7

Manual Integrations
APPROVED

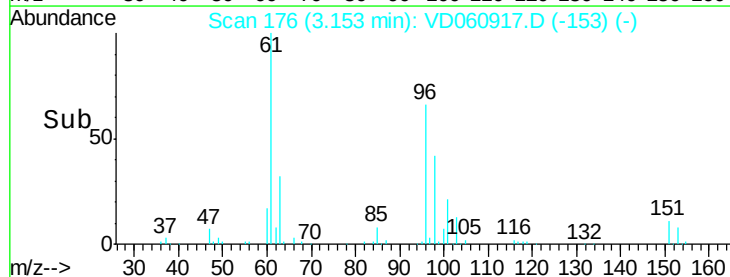
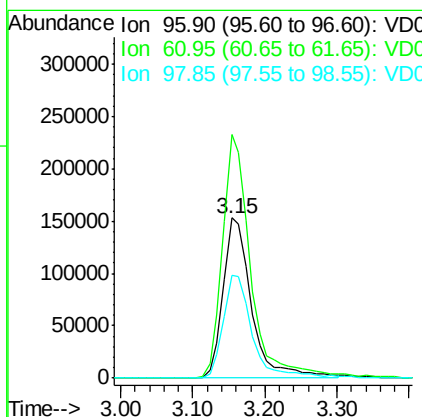
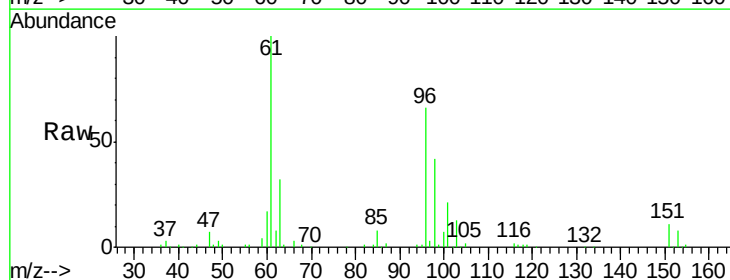
MMDadoda
3/5/2019 10:49:08 AM

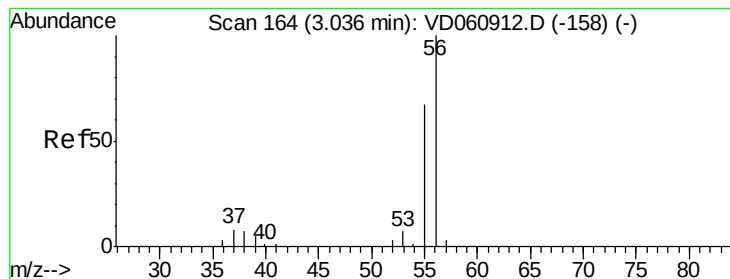


#12

1,1-Dichloroethene
Concen: 48.654 ug/l
RT: 3.15 min Scan# 176
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 96 Resp: 420833
Ion Ratio Lower Upper
96 100
61 152.3 116.4 174.6
98 64.0 50.5 75.7





#13

Acrolein

Concen: 222.591 ug/l

RT: 3.06 min Scan# 167

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 143196

Ion Ratio Lower Upper

56 100

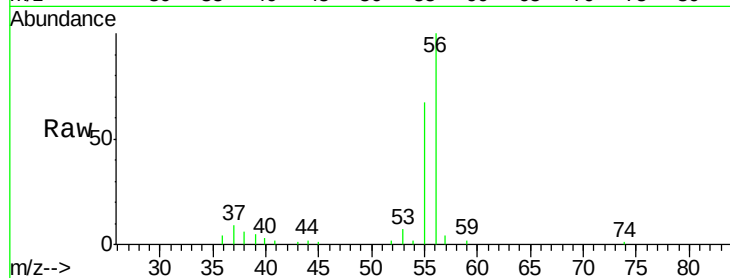
55 67.0 53.5 80.3

Manual Integrations

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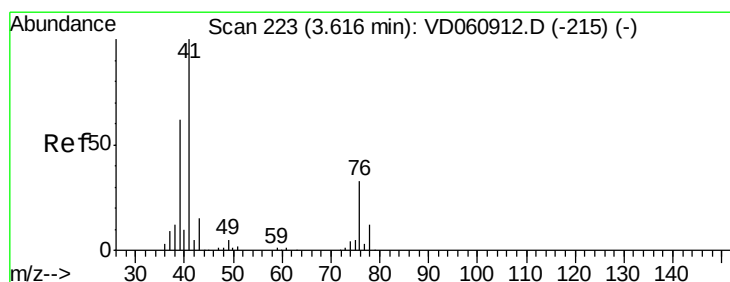
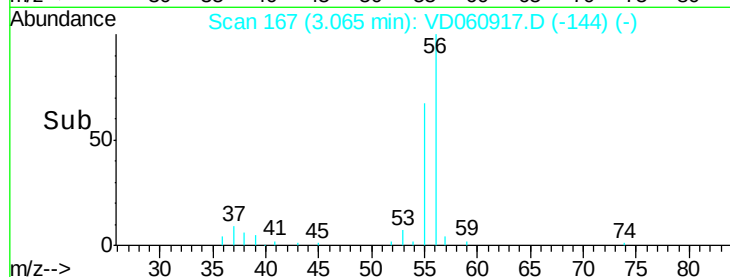
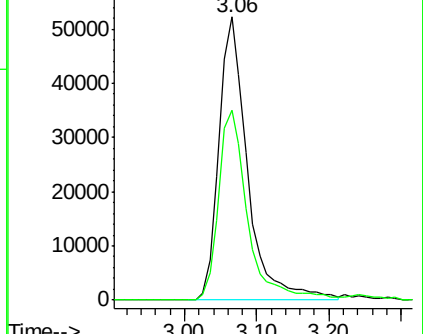
MMDadoda

3/5/2019 10:49:08 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 50.291 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

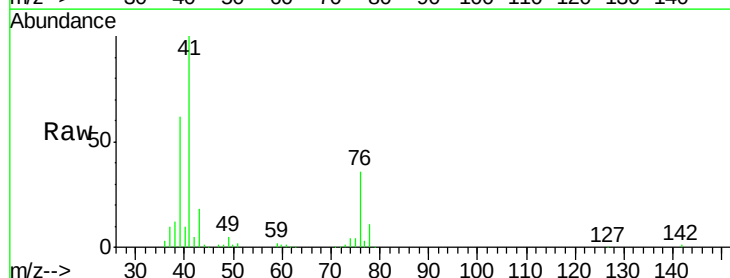
Tgt Ion: 41 Resp: 709520

Ion Ratio Lower Upper

41 100

39 61.6 49.9 74.9

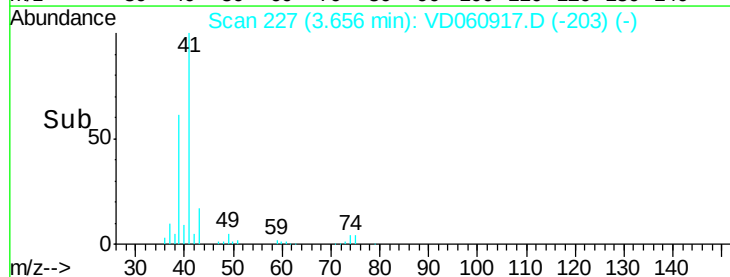
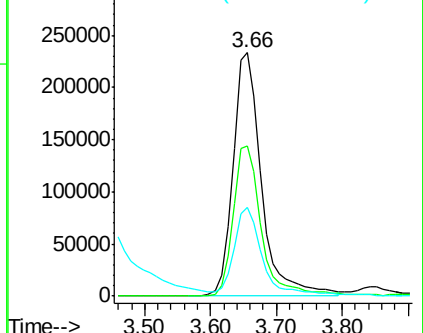
76 36.2 28.6 42.8

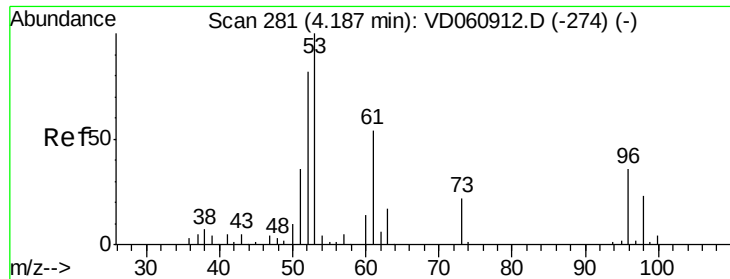


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 231.007 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

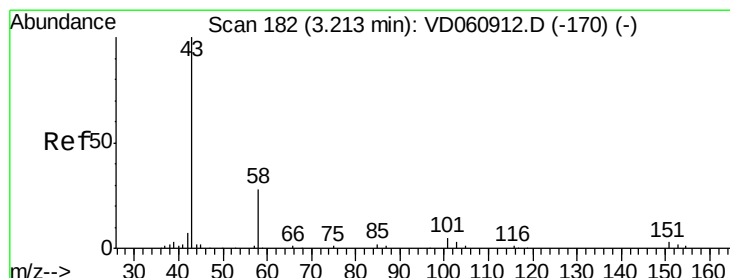
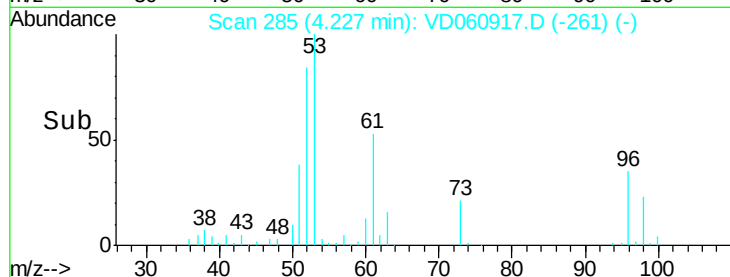
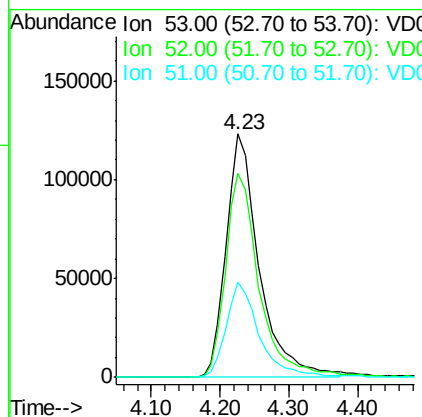
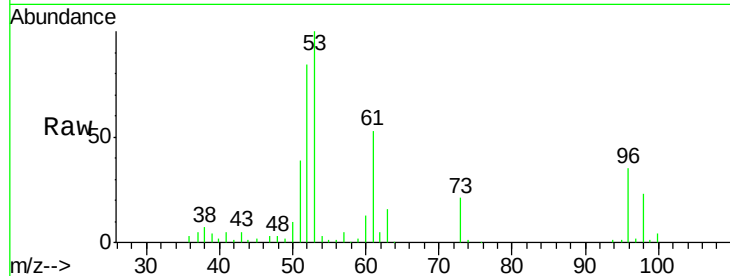
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	410902
Ion	Ratio	Lower	Upper
53	100		
52	83.9	65.8	98.6
51	38.8	28.9	43.3

Manual Integrations
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#16

Acetone

Concen: 264.943 ug/l

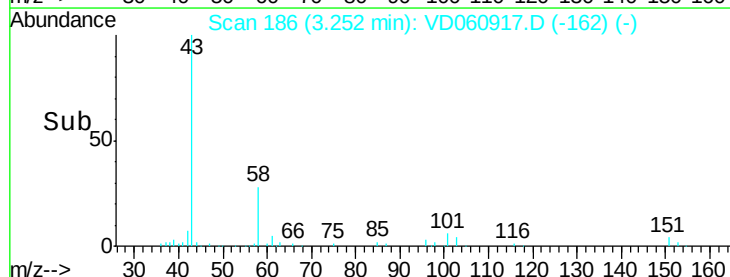
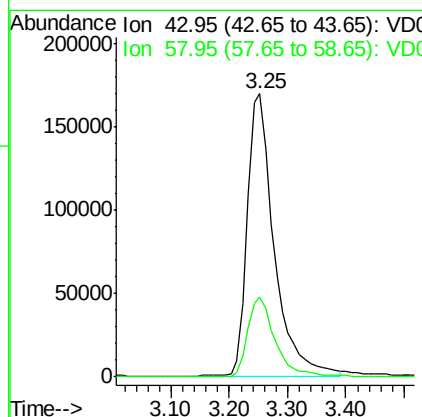
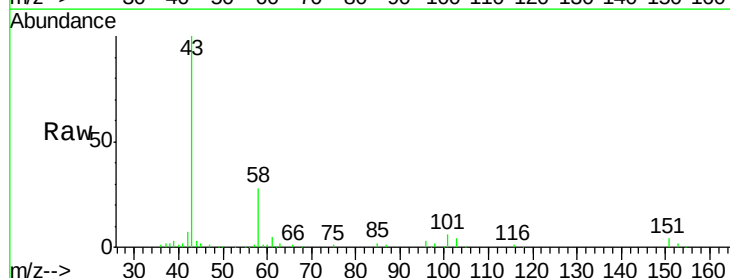
RT: 3.25 min Scan# 186

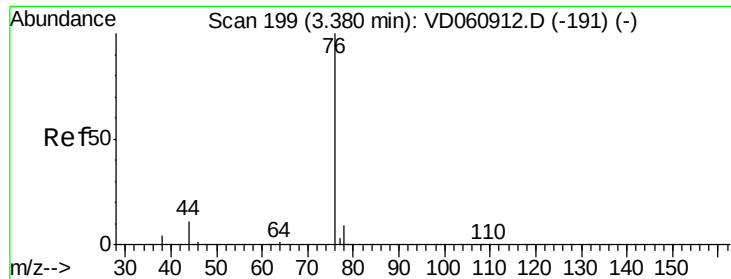
Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:	43	Resp:	551376
Ion	Ratio	Lower	Upper
43	100		
58	28.3	22.8	34.2





#17

Carbon Disulfide

Concen: 50.048 ug/l

RT: 3.41 min Scan# 202

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tot Ion: 76 Resp: 1534514

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

Instrument :

MSVOA_D

ClientSampleId :

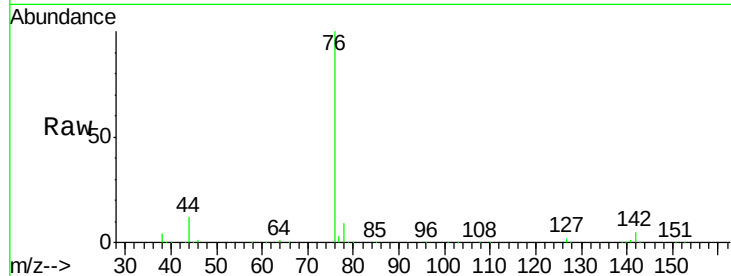
VSTDCCC050

Manual Integrations

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3/5/2019 10:49:08 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.41

600000

500000

400000

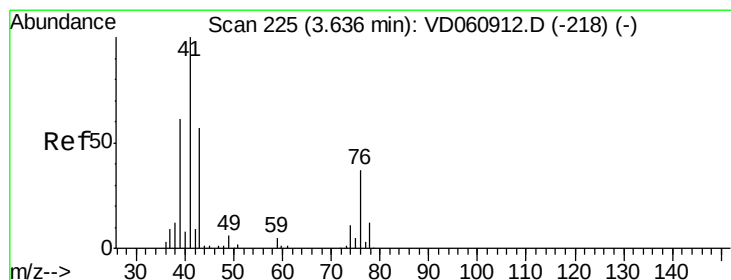
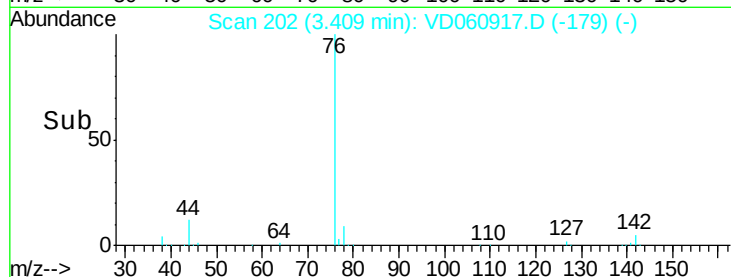
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 46.663 ug/l

RT: 3.68 min Scan# 229

Delta R.T. 0.04 min

Lab File: VD060917.D

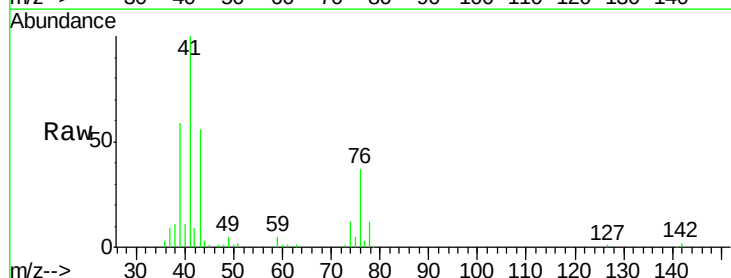
Acq: 4 Mar 2019 11:54

Tgt Ion: 43 Resp: 198841

Ion Ratio Lower Upper

43 100

74 21.0 16.1 24.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.68

80000

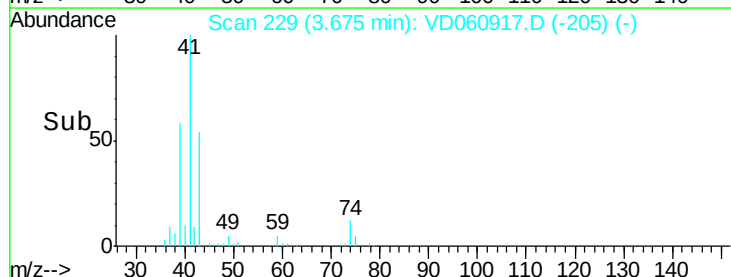
60000

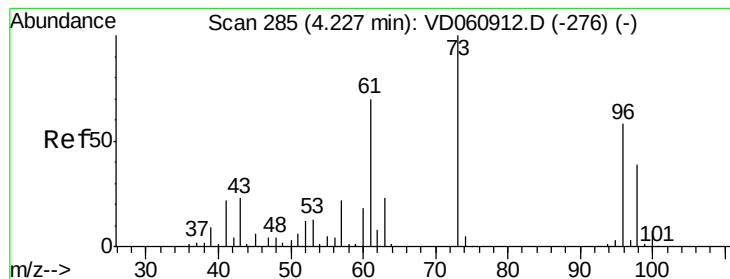
40000

20000

0

Time-->





#19

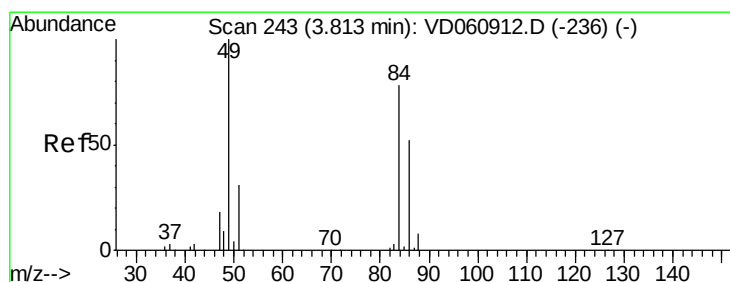
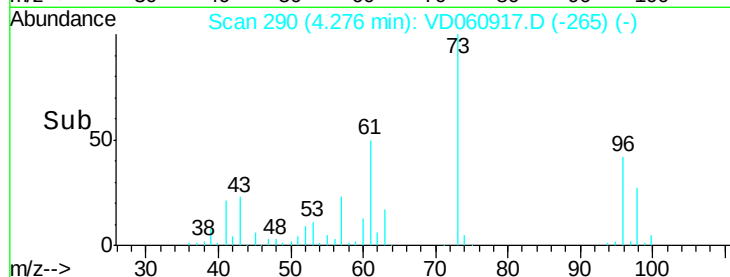
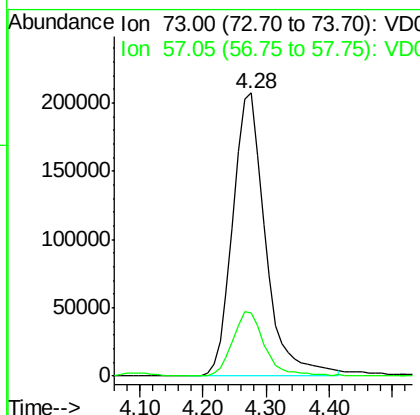
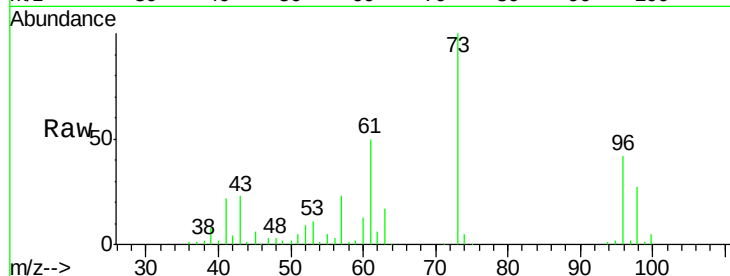
Methyl tert-butyl Ether
 Concen: 49.078 ug/l
 RT: 4.28 min Scan# 290
 Delta R.T. 0.05 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion	73	Resp	746678
Ion Ratio	100	Lower	Upper
57	22.5	17.8	26.6

Manual Integrations
 APPROVED

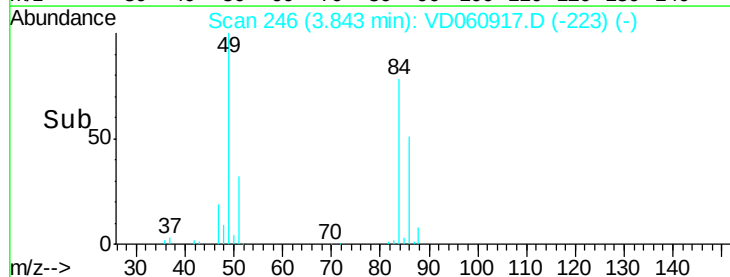
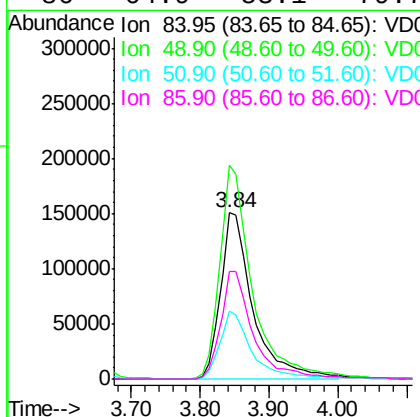
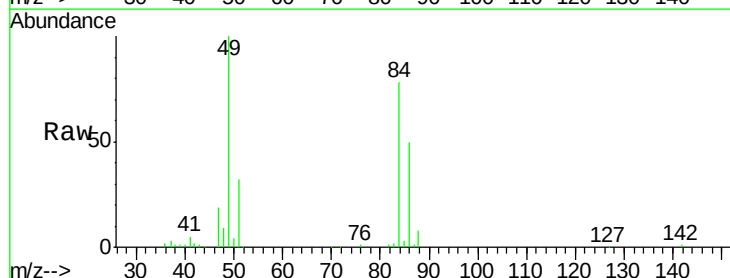
MMDadoda
 3/5/2019 10:49:08 AM

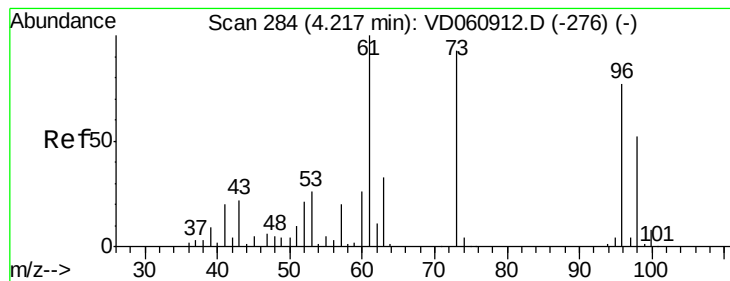


#20

Methylene Chloride
 Concen: 49.797 ug/l
 RT: 3.84 min Scan# 246
 Delta R.T. 0.03 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion	84	Resp	492042
Ion Ratio	100	Lower	Upper
49	128.7	102.4	153.6
51	40.7	31.9	47.9
86	64.9	53.1	79.7





#21

trans-1,2-Dichloroethene

Concen: 52.128 ug/l

RT: 4.26 min Scan# 288

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 490856

Ion Ratio Lower Upper

96 100

61 130.6 103.4 155.2

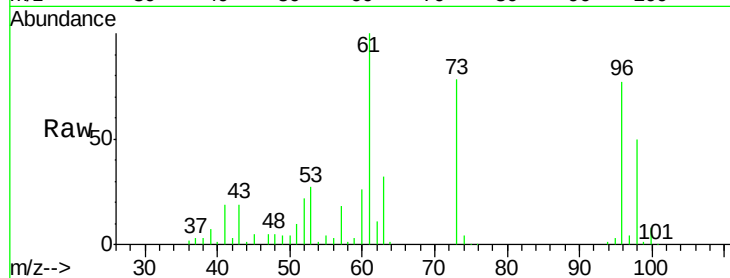
98 65.4 53.6 80.4

Manual Integrations

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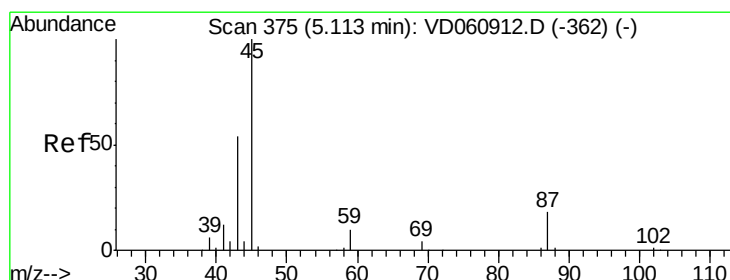
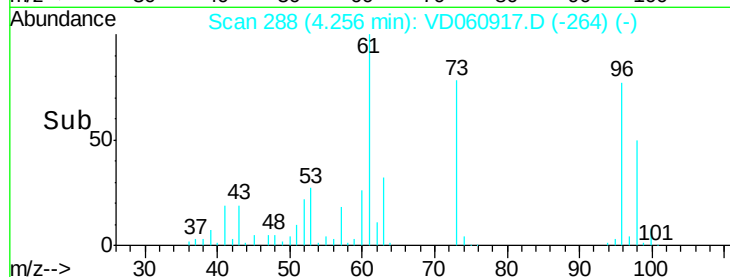
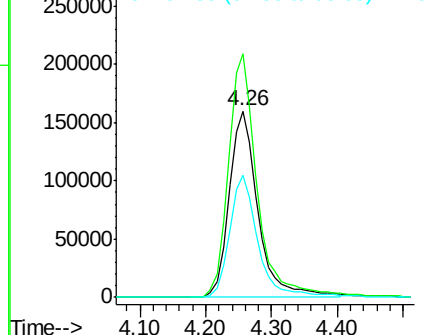
3/5/2019 10:49:08 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 46.709 ug/l

RT: 5.15 min Scan# 379

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion: 45 Resp: 1399227

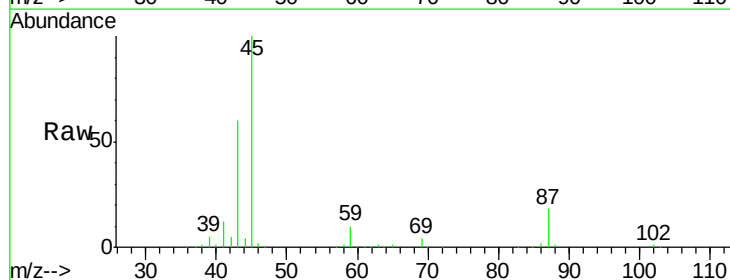
Ion Ratio Lower Upper

45 100

43 60.4 44.4 66.6

87 17.9 14.7 22.1

59 9.7 7.9 11.9

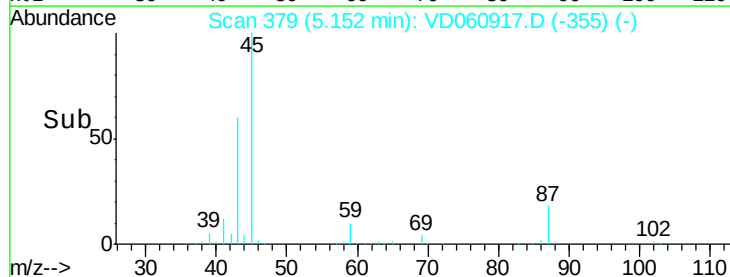
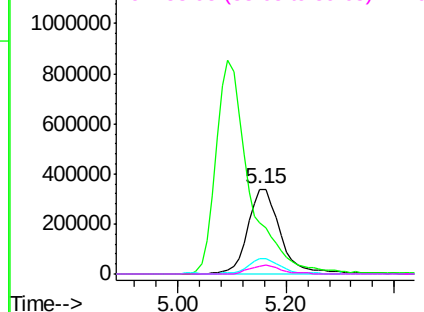


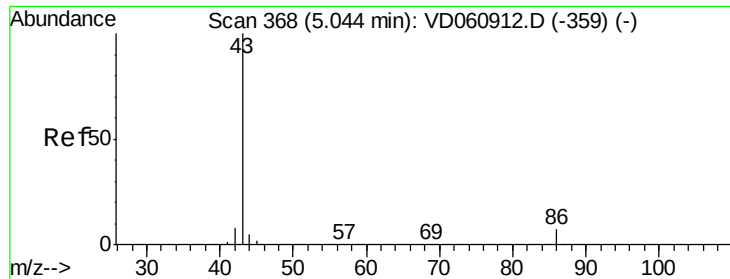
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 227.910 ug/l

RT: 5.09 min Scan# 373

Delta R.T. 0.05 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3585403

Ion Ratio Lower Upper

43 100

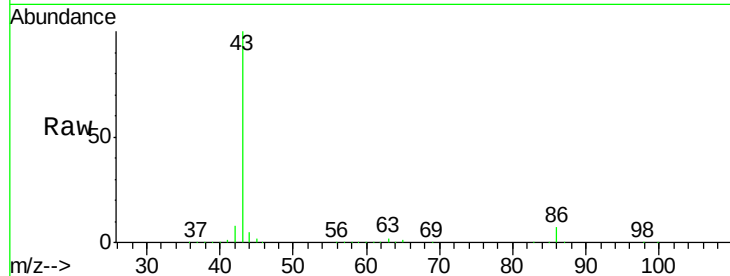
86 7.0 5.8 8.8

Manual Integrations

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MMDadoda

3/5/2019 10:49:08 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.09

800000

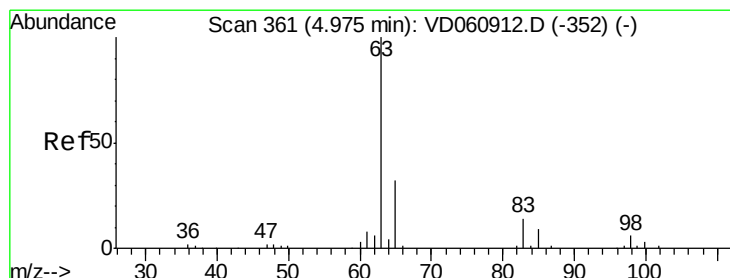
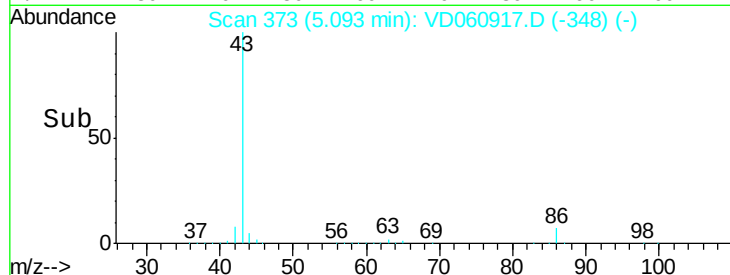
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 50.477 ug/l

RT: 5.02 min Scan# 366

Delta R.T. 0.05 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

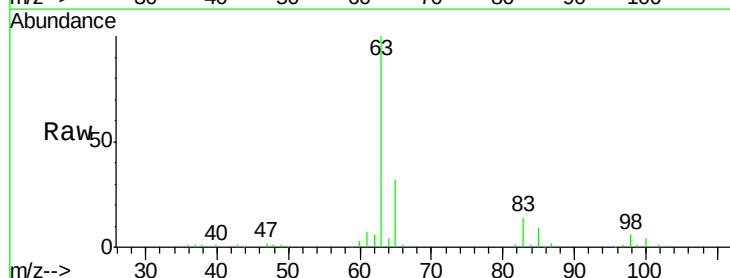
Tgt Ion: 63 Resp: 806454

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.8

100 3.9 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

5.02

300000

250000

200000

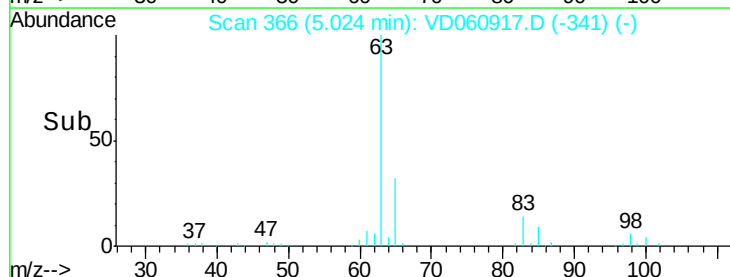
150000

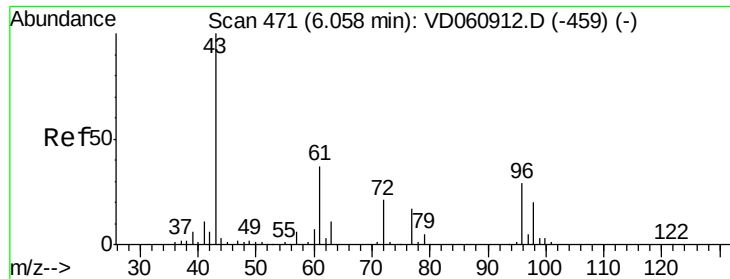
100000

50000

0

Time-->





#25

2-Butanone

Concen: 240.615 ug/l

RT: 6.11 min Scan# 476

Delta R.T. 0.05 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 621181

Ion Ratio Lower Upper

43 100

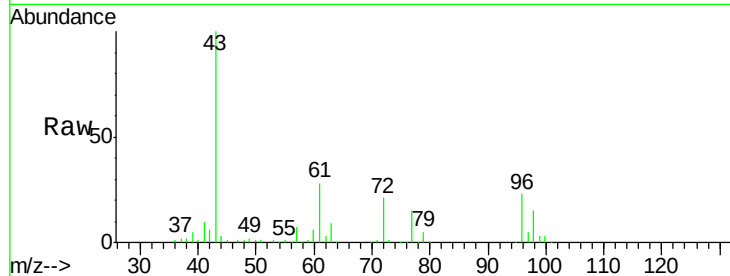
72 21.3 17.0 25.4

Manual Integrations

APPROVED

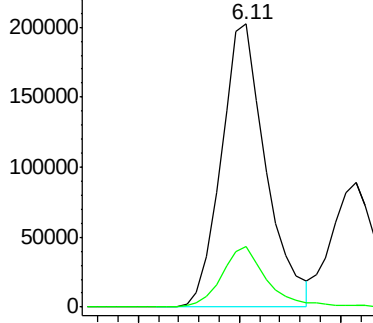
MMDadoda

3/5/2019 10:49:08 AM

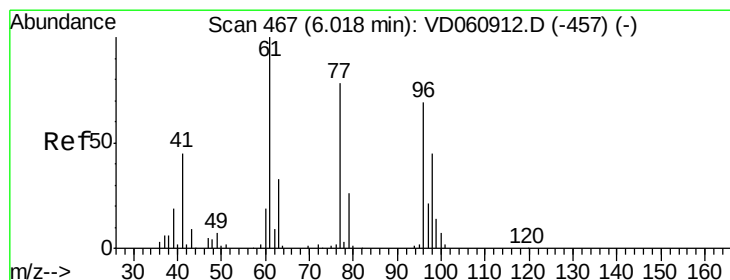
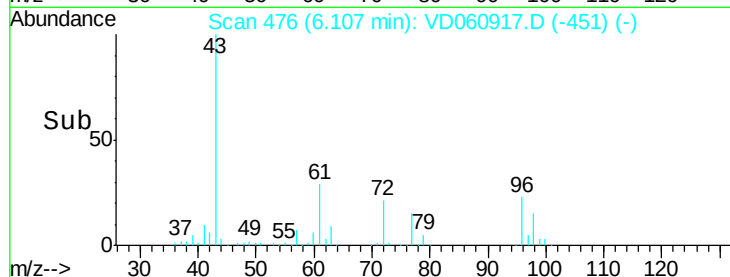


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 51.082 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.04 min

Lab File: VD060917.D

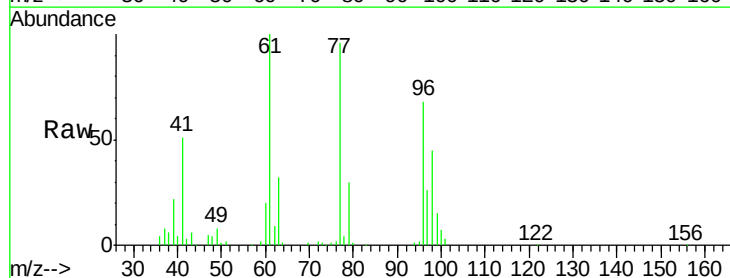
Acq: 4 Mar 2019 11:54

Tgt Ion: 77 Resp: 606283

Ion Ratio Lower Upper

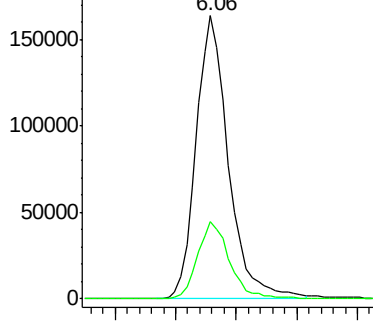
77 100

97 27.3 13.5 40.4

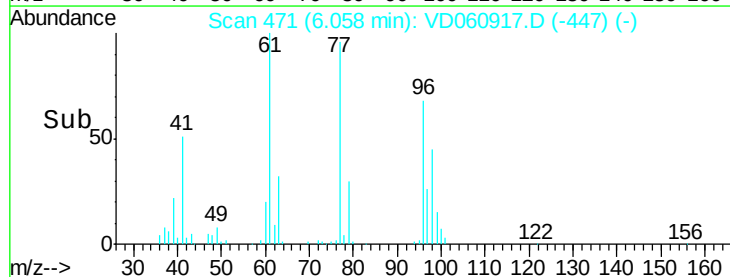


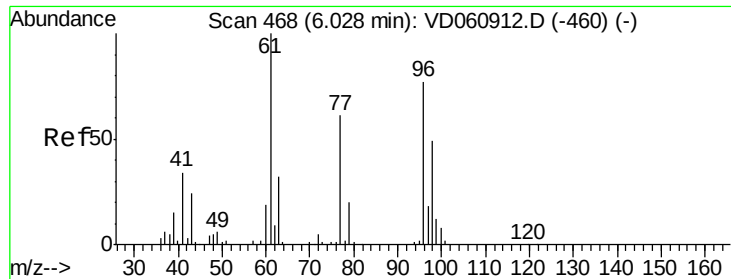
Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->





#27

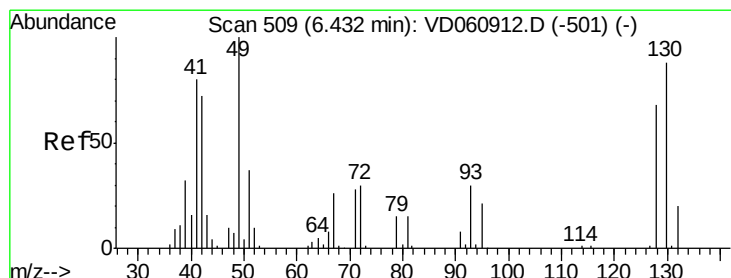
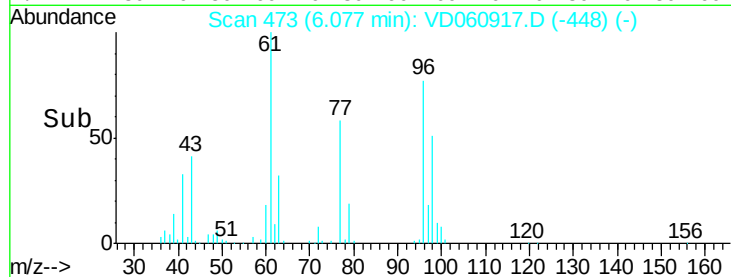
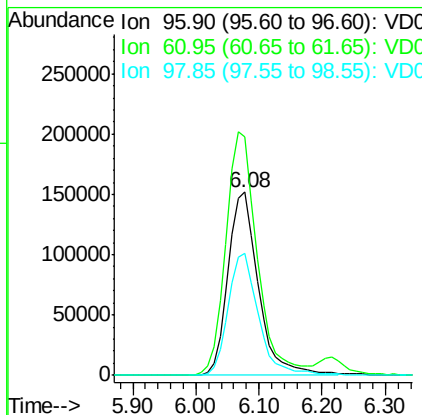
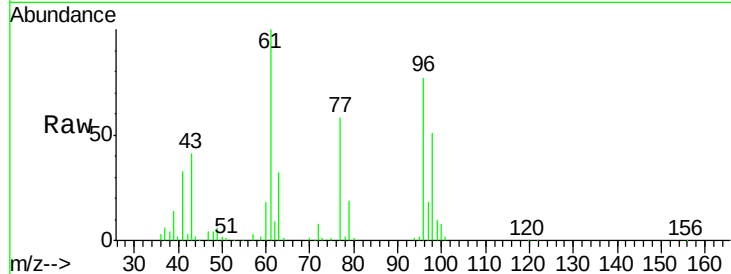
cis-1,2-Dichloroethene
Concen: 47.448 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.05 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	506589		
61	130.7	0.0	258.8	
98	66.6	0.0	126.4	

Manual Integrations
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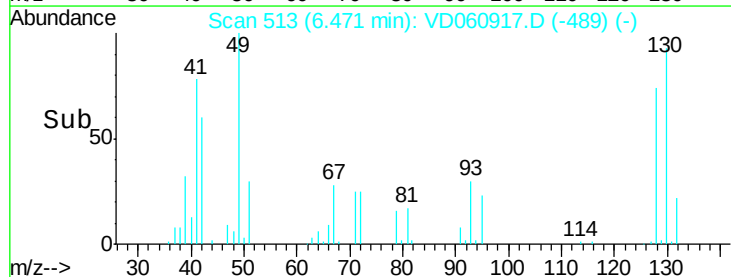
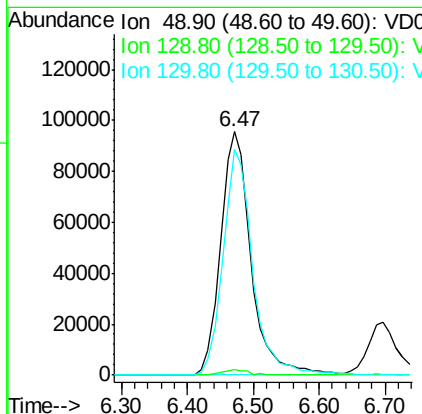
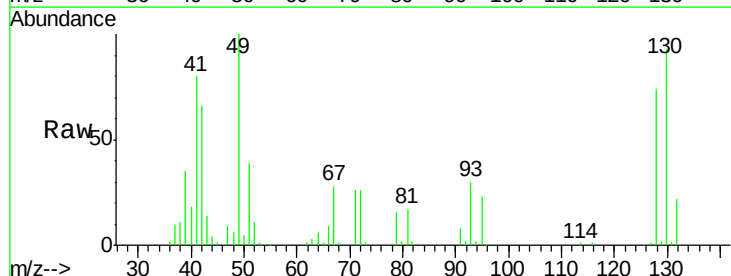
MMDadoda
3/5/2019 10:49:08 AM

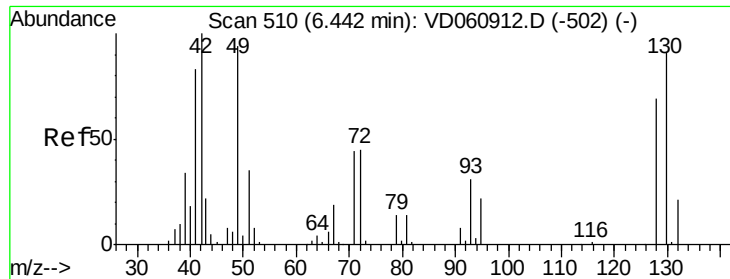


#28

Bromochloromethane
Concen: 45.780 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	307221		
129	2.4	0.0	0.0#	
130	92.8	70.4	105.6	





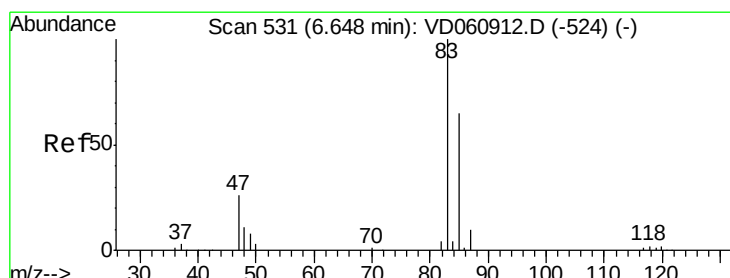
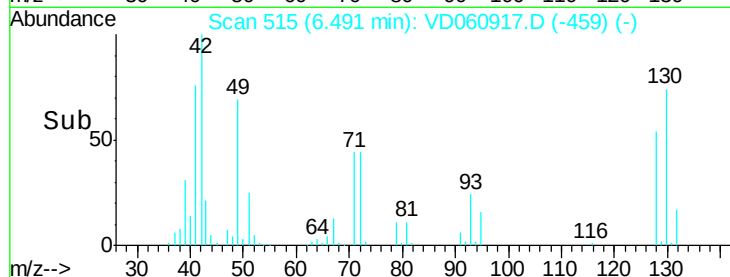
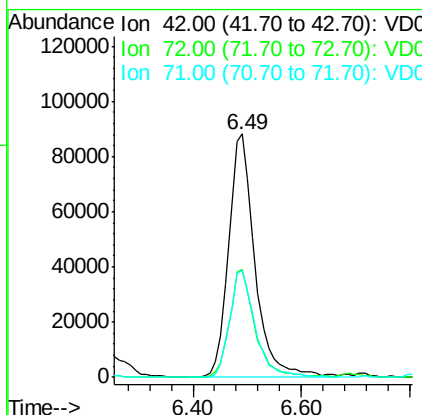
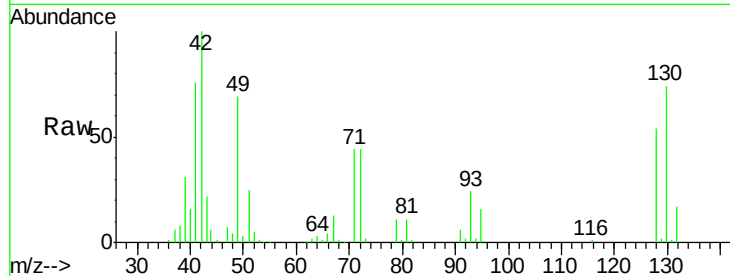
#29
Tetrahydrofuran
Concen: 224.773 ug/l
RT: 6.49 min Scan# 515
Delta R.T. 0.05 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	298689		
72	43.0		33.8	50.6
71	42.5		33.5	50.3

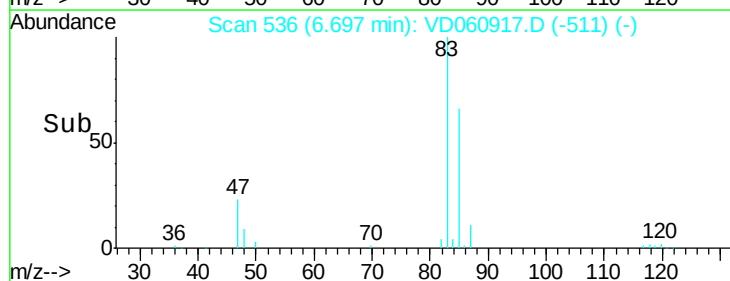
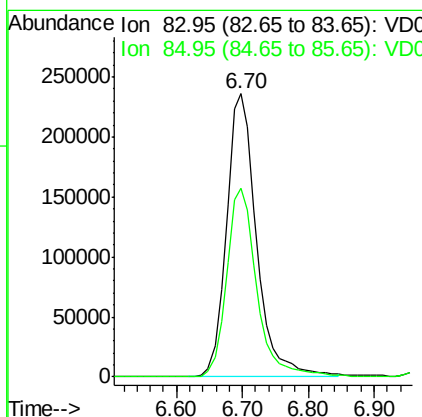
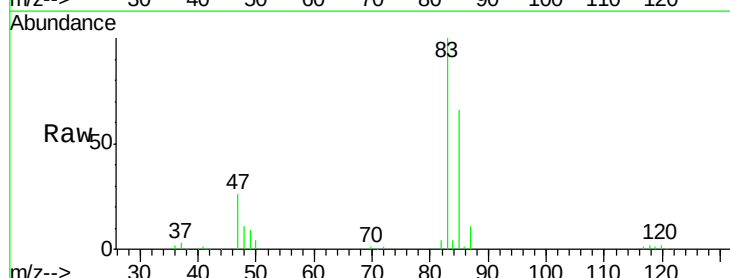
Manual Integrations
APPROVED

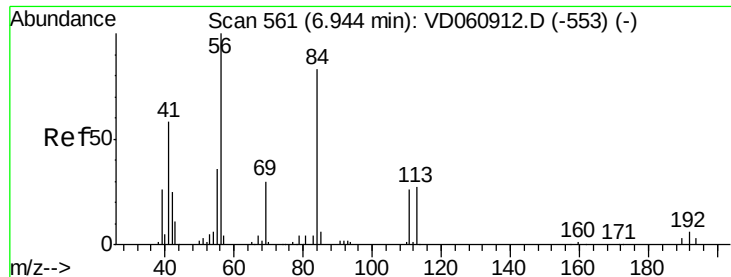
MMDadoda
3/5/2019 10:49:08 AM



#30
Chloroform
Concen: 48.628 ug/l
RT: 6.70 min Scan# 536
Delta R.T. 0.05 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	753520		
85	66.4		51.7	77.5





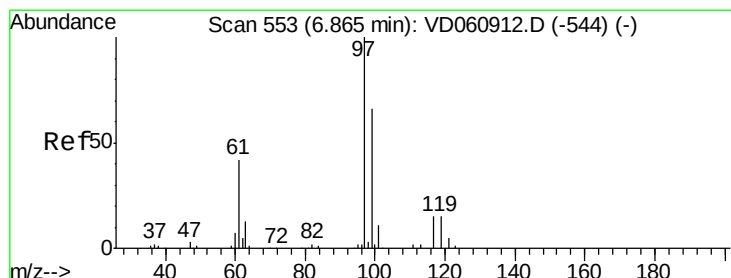
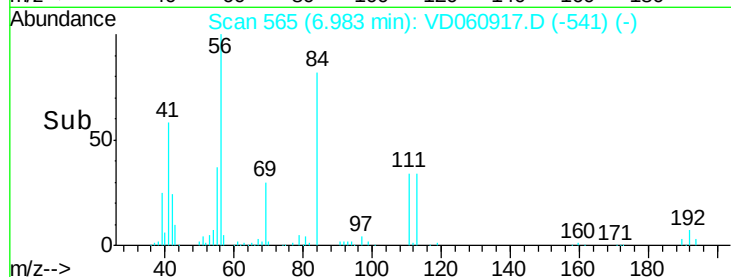
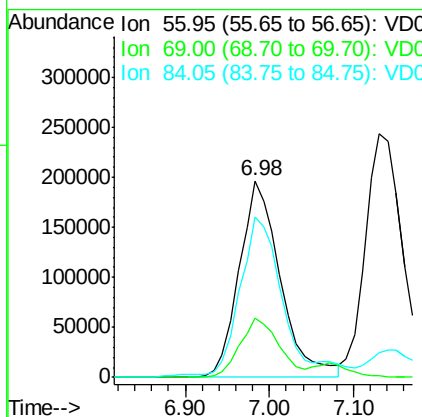
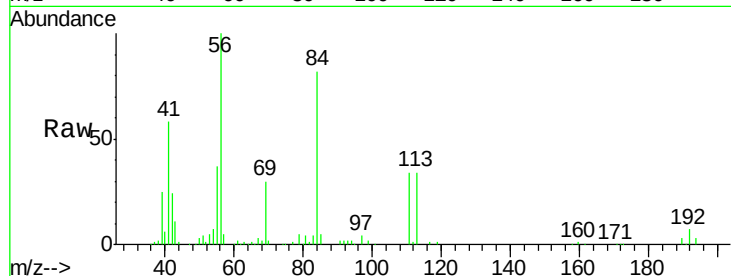
#31
Cyclohexane
Concen: 48.570 ug/l
RT: 6.98 min Scan# 565
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.0	23.6	35.4
84	81.8	66.5	99.7

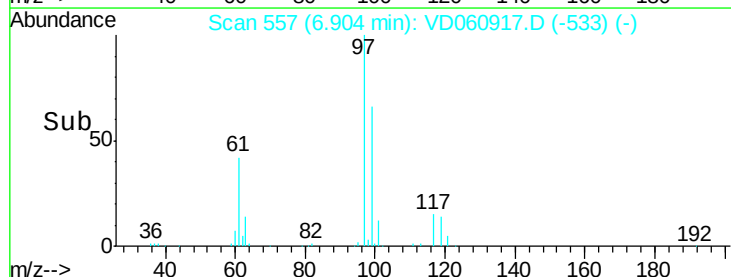
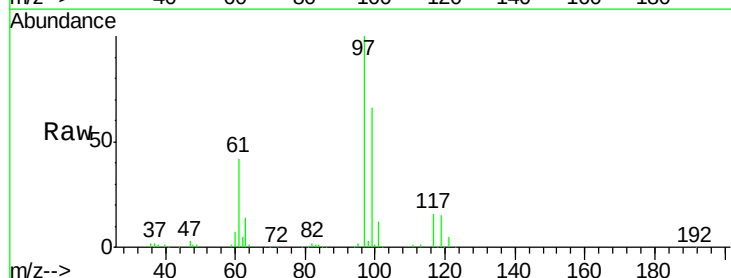
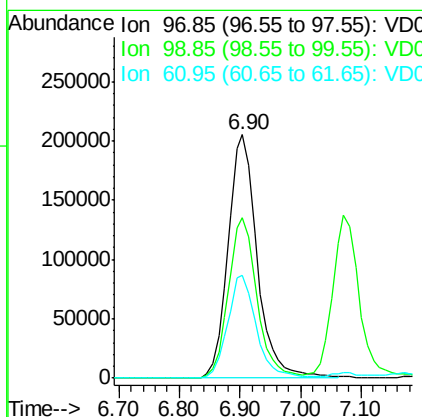
Manual Integrations
APPROVED

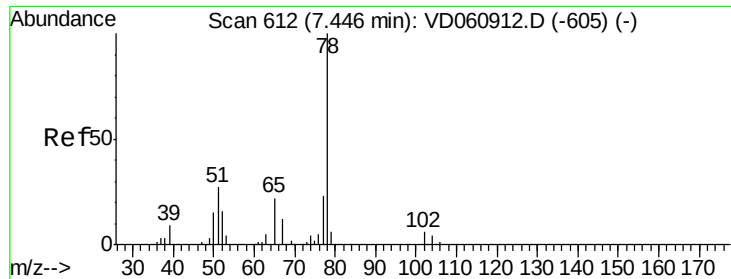
MMDadoda
3/5/2019 10:49:08 AM



#32
1,1,1-Trichloroethane
Concen: 51.592 ug/l
RT: 6.90 min Scan# 557
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.8	79.2
61	42.4	33.3	49.9





#33

1,2-Dichloroethane-d4

Concen: 51.592 ug/l

RT: 7.48 min Scan# 616

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 345576

Ion Ratio Lower Upper

65 100

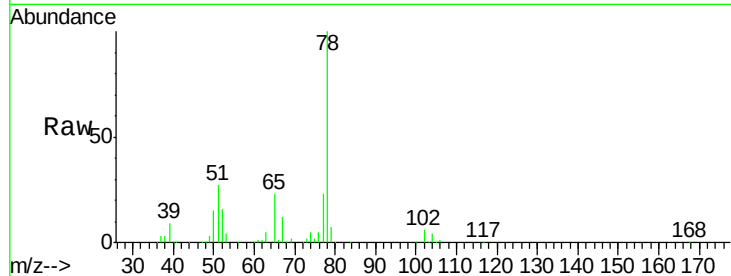
67 53.0 0.0 109.4

Manual Integrations

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.48

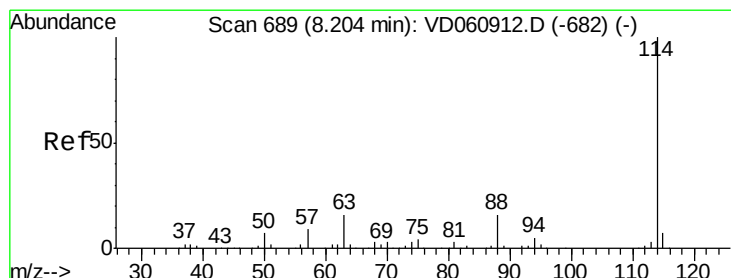
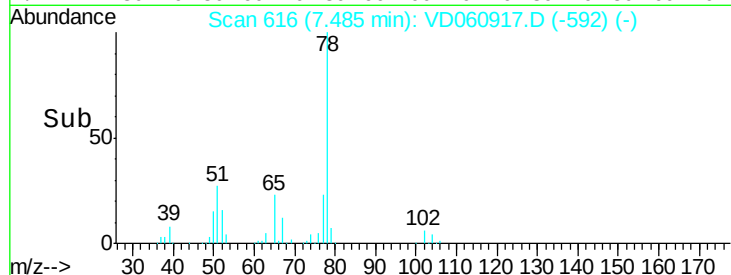
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 693

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

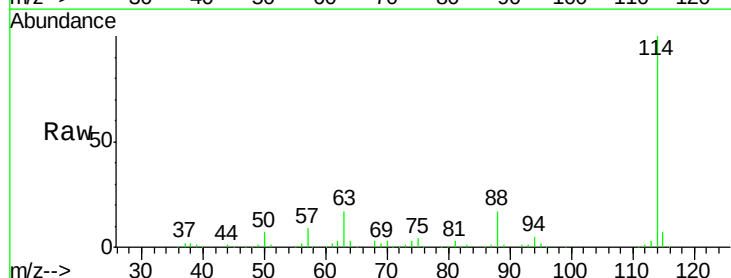
Tgt Ion:114 Resp: 1305310

Ion Ratio Lower Upper

114 100

63 16.5 0.0 32.0

88 17.0 0.0 32.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.24

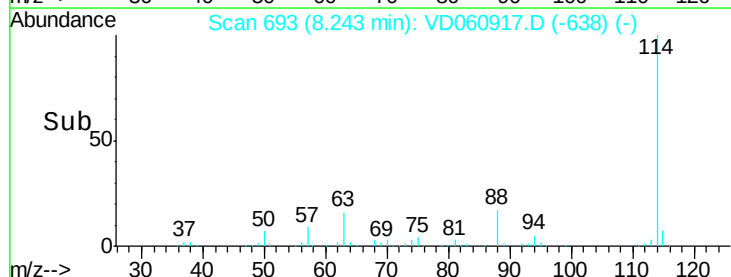
600000

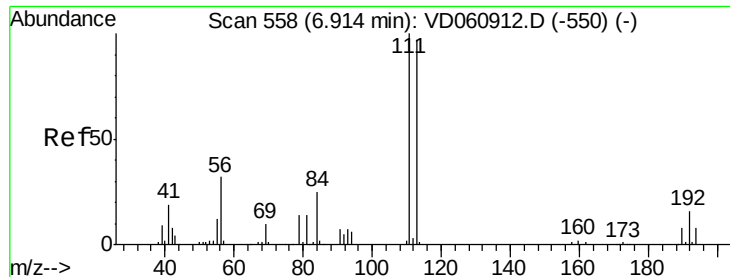
400000

200000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

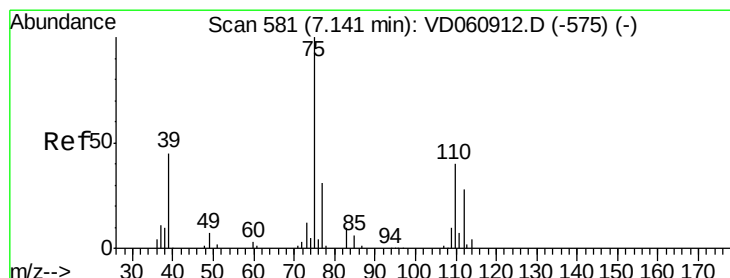
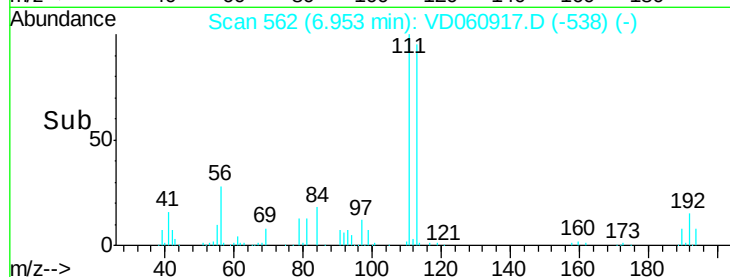
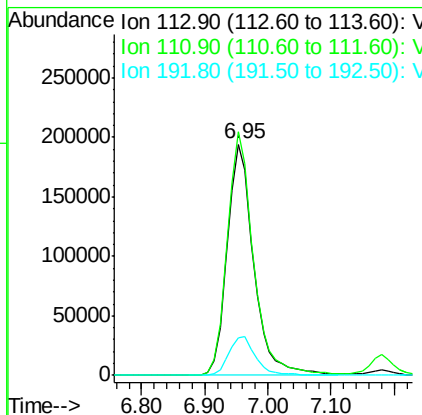
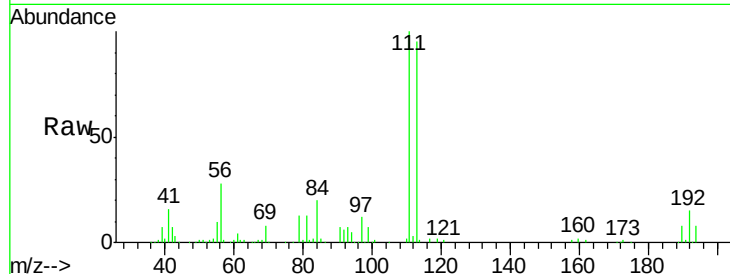
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	564742
Ion Ratio	Lower	Upper	
113	100		
111	105.2	82.6	124.0
192	16.1	13.4	20.2

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 50.985 ug/l

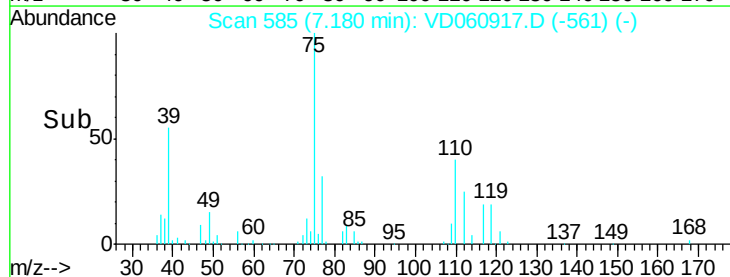
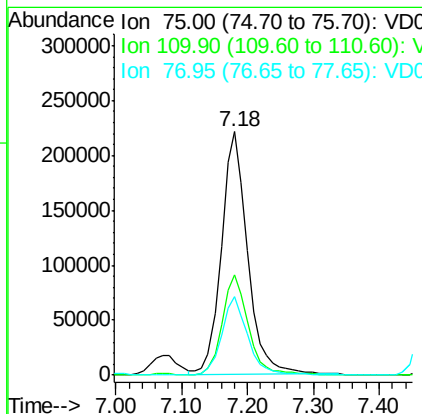
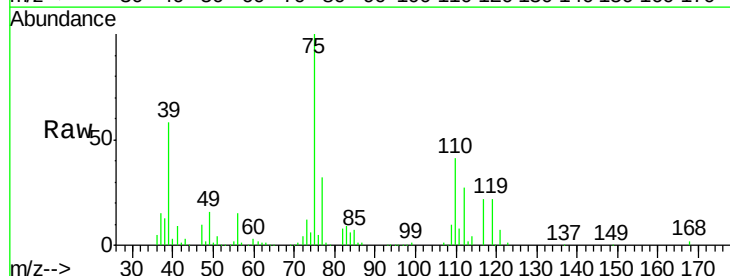
RT: 7.18 min Scan# 585

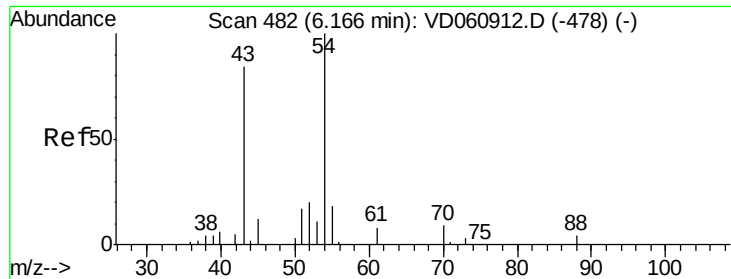
Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:	75	Resp:	611896
Ion Ratio	Lower	Upper	
75	100		
110	41.3	19.9	59.7
77	32.0	25.0	37.6





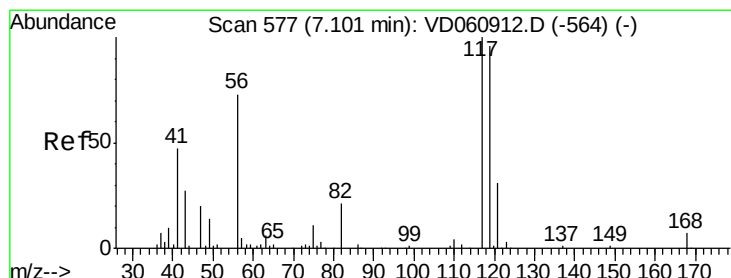
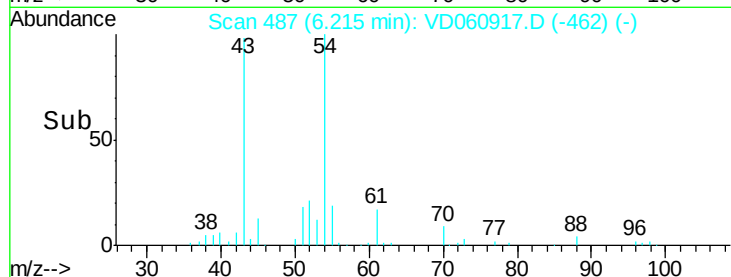
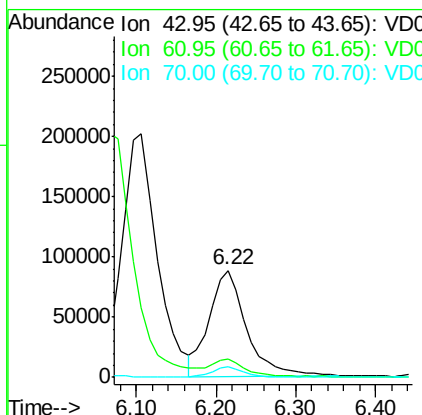
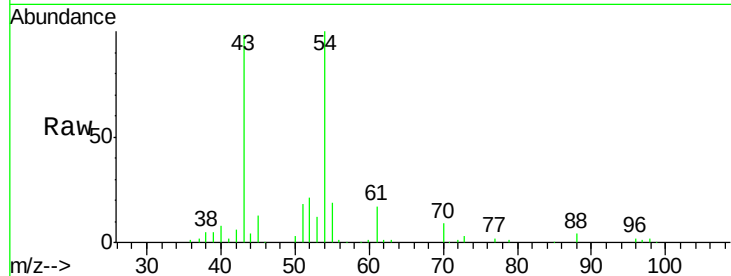
#37
Ethyl Acetate
Concen: 46.157 ug/l
RT: 6.22 min Scan# 487
Delta R.T. 0.05 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.2	12.1	18.1
70	9.5	7.3	10.9

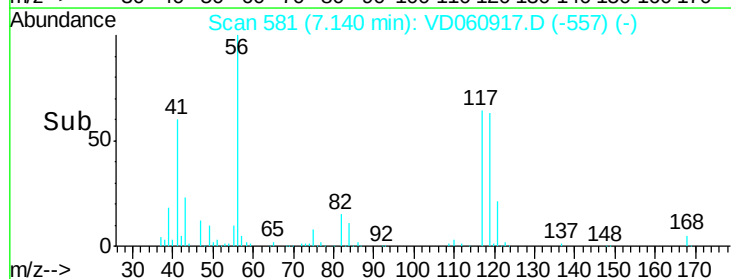
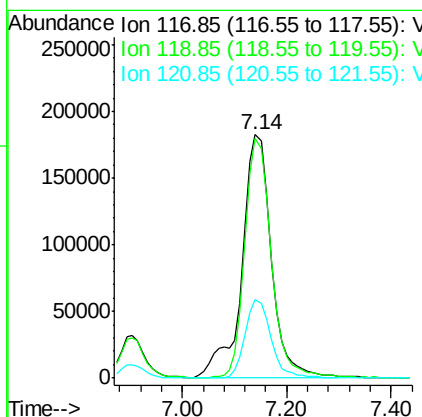
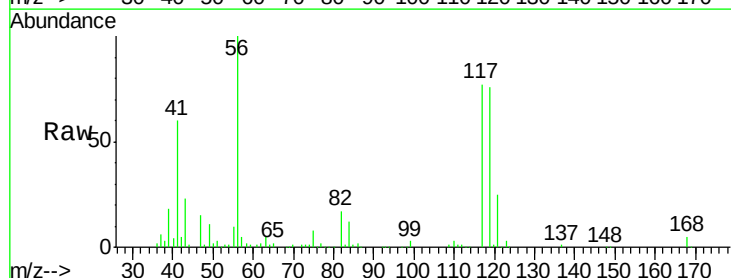
Manual Integrations
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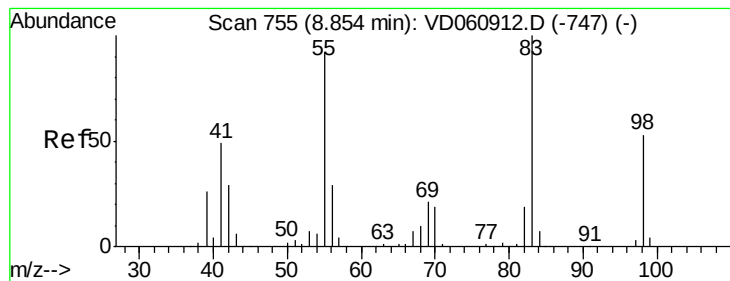
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#38
Carbon Tetrachloride
Concen: 53.638 ug/l
RT: 7.14 min Scan# 581
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.9	115.3
121	32.4	24.5	36.7





#39

Methylvlcyclohexane

Concen: 49.626 ug/l

RT: 8.89 min Scan# 759

Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 651038

Ion Ratio Lower Upper

83 100

55 91.3 73.8 110.8

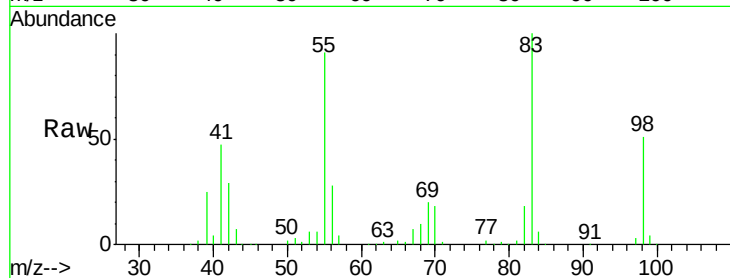
98 50.8 42.4 63.6

Manual Integrations

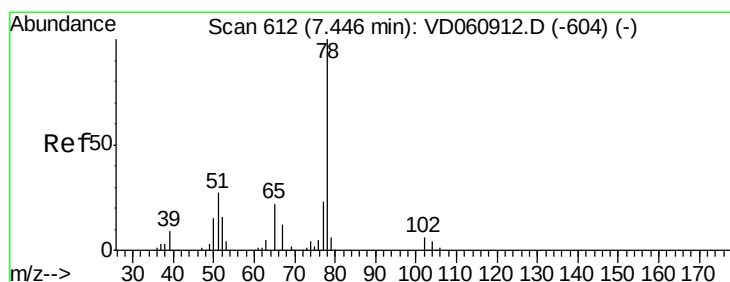
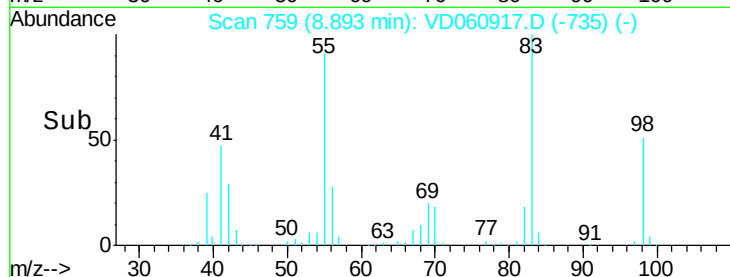
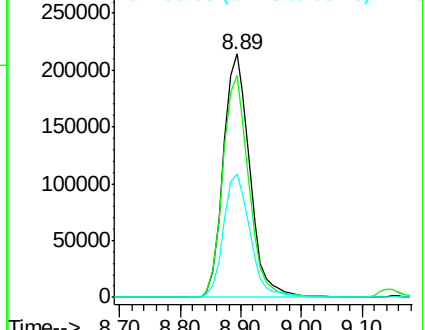
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Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 50.522 ug/l

RT: 7.48 min Scan# 616

Delta R.T. 0.04 min

Lab File: VD060917.D

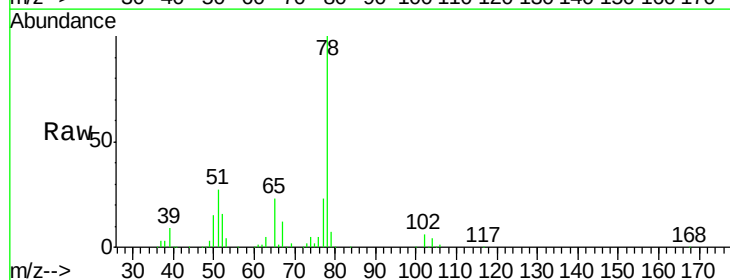
Acq: 4 Mar 2019 11:54

Tgt Ion: 78 Resp: 1544157

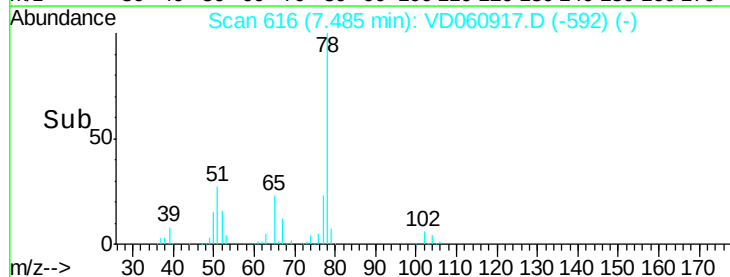
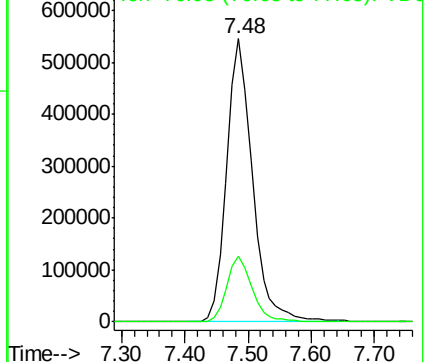
Ion Ratio Lower Upper

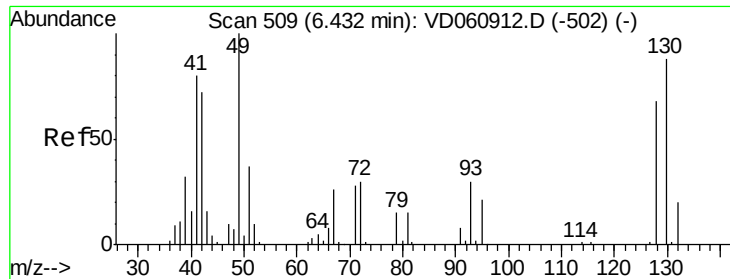
78 100

77 23.4 18.4 27.6



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





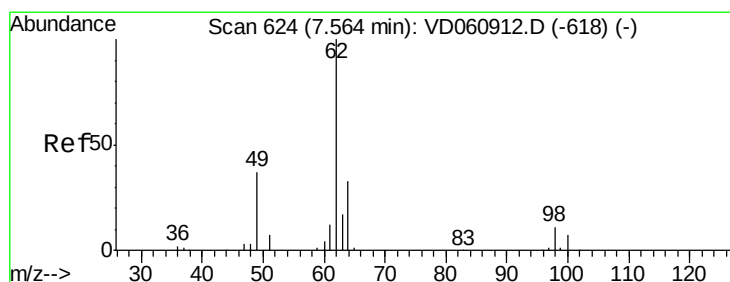
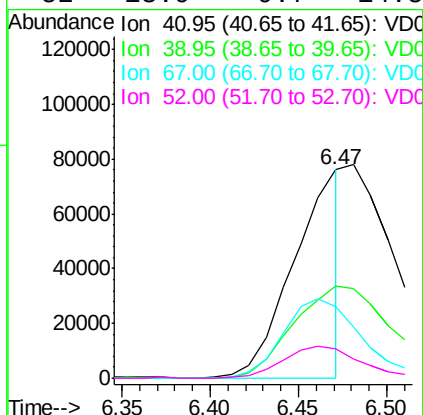
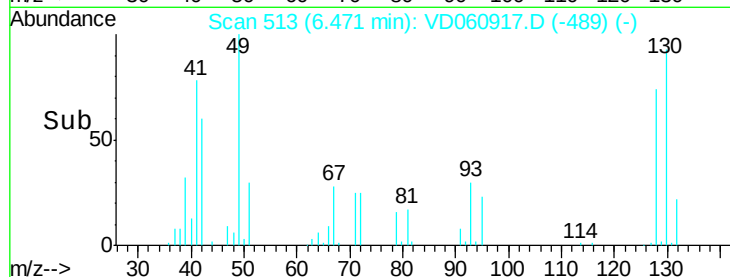
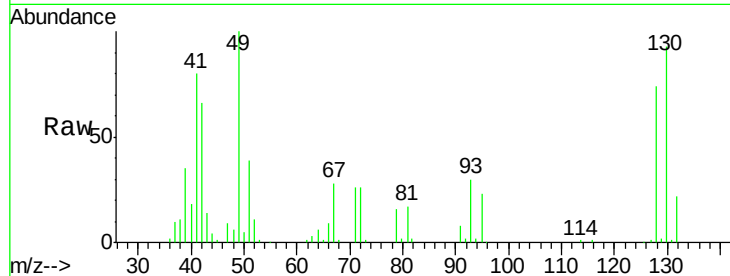
#41
Methacrylonitrile
Concen: 37.751 ug/l m
RT: 6.47 min Scan# 513
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	44.5	32.1	48.1	
67	34.6	25.6	38.4	
52	13.9	9.7	14.5	

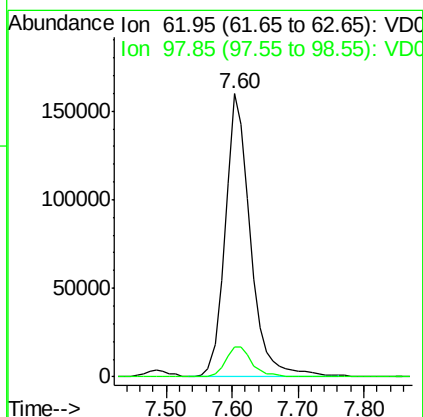
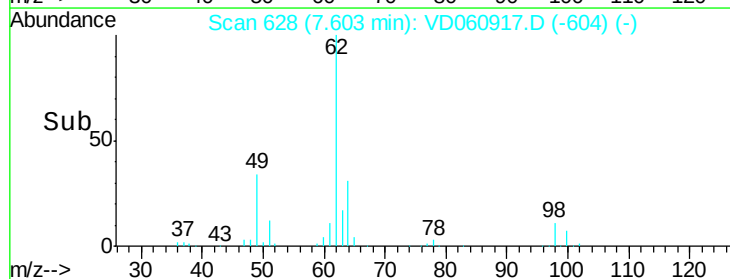
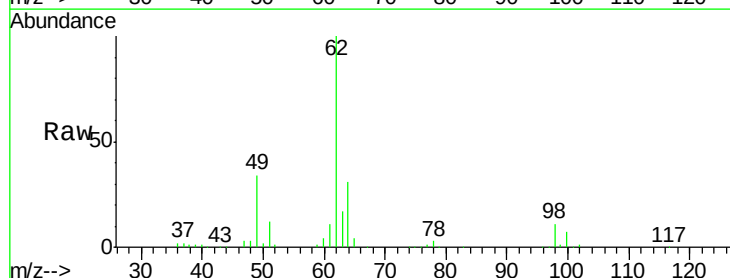
Manual Integrations
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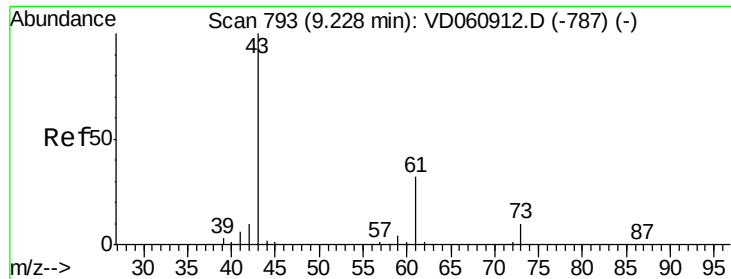
MMDadoda
3/5/2019 10:49:08 AM



#42
1,2-Dichloroethane
Concen: 49.259 ug/l
RT: 7.60 min Scan# 628
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.6	0.0	21.4	





#43

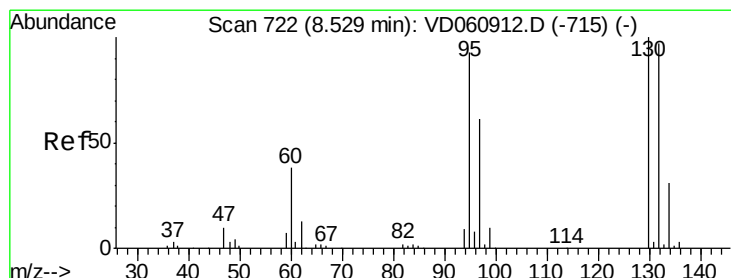
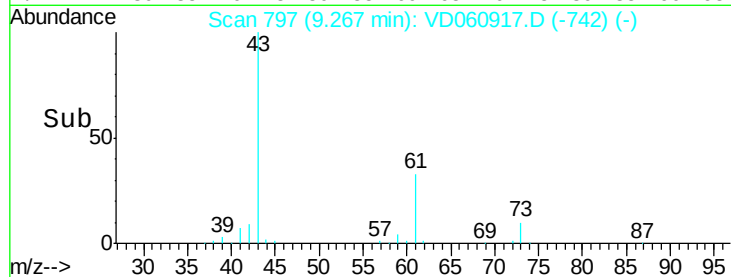
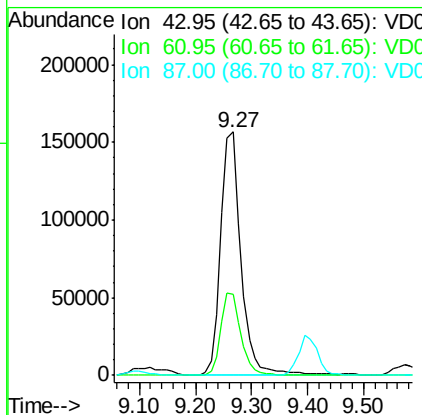
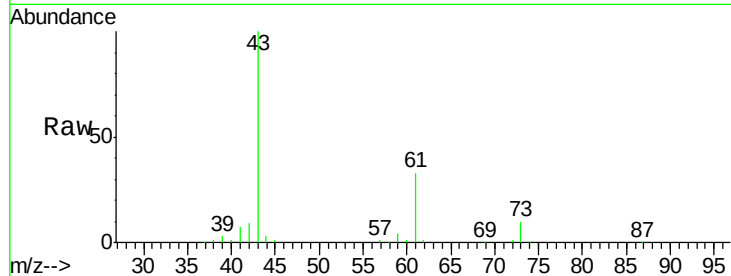
Isopropyl Acetate
 Concen: 45.848 ug/l
 RT: 9.27 min Scan# 797
 Delta R.T. 0.04 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.4	25.6	38.4
87	0.3	0.2	0.4

Manual Integrations
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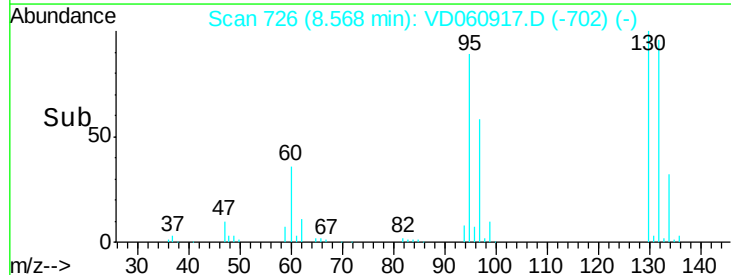
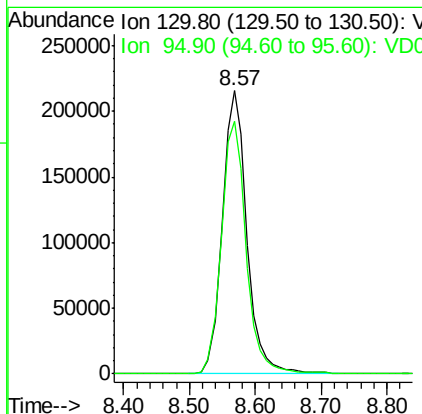
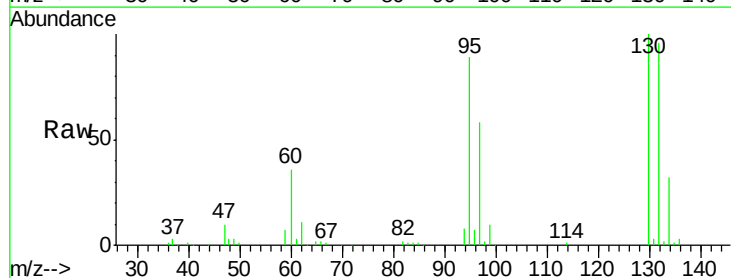
MMDadoda
 3/5/2019 10:49:08 AM

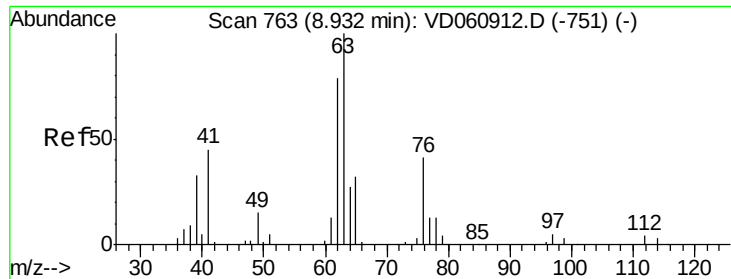


#44

Trichloroethene
 Concen: 53.584 ug/l
 RT: 8.57 min Scan# 726
 Delta R.T. 0.04 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.4	0.0	185.8





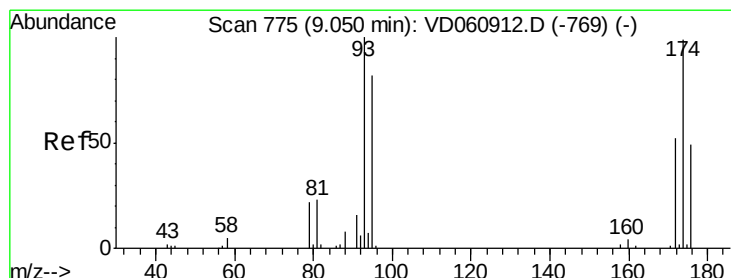
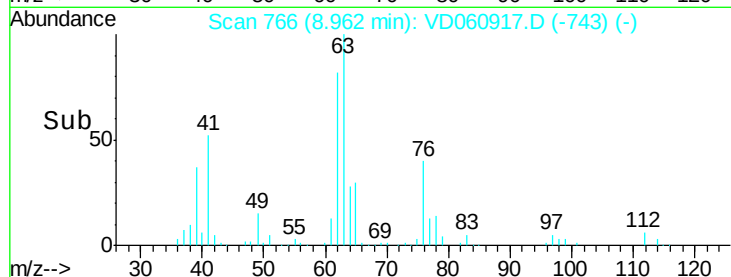
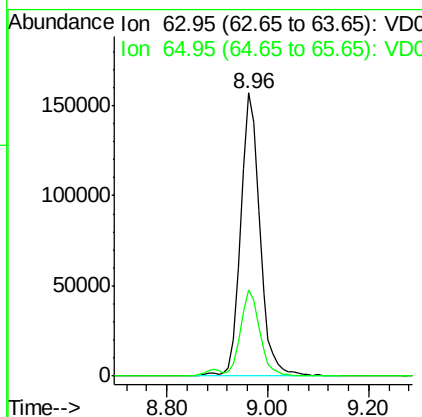
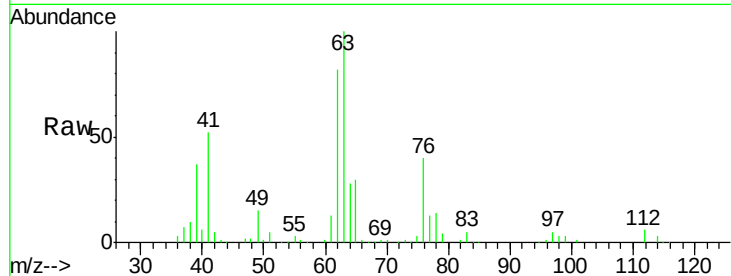
#45
 1,2-Dichloropropane
 Concen: 50.734 ug/l
 RT: 8.96 min Scan# 766
 Delta R.T. 0.03 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 410522
 Ion Ratio Lower Upper
 63 100
 65 30.3 25.8 38.6

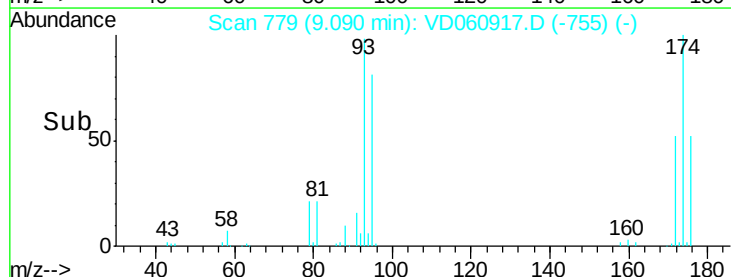
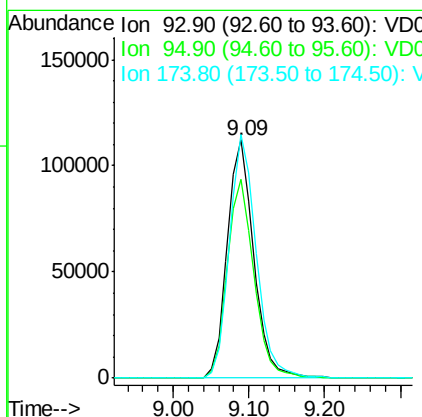
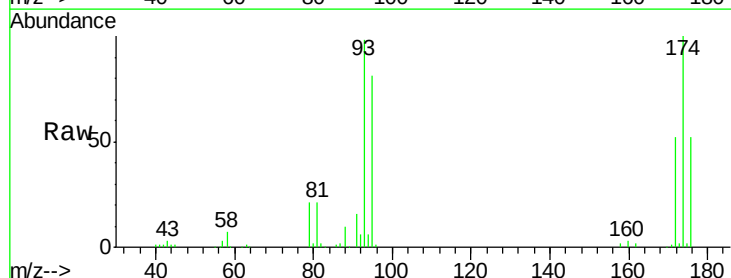
Manual Integrations
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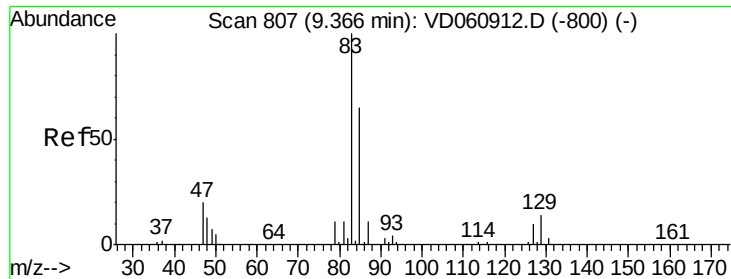
MMDadoda
 3/5/2019 10:49:08 AM



#46
 Dibromomethane
 Concen: 51.846 ug/l
 RT: 9.09 min Scan# 779
 Delta R.T. 0.04 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion: 93 Resp: 270599
 Ion Ratio Lower Upper
 93 100
 95 83.4 65.8 98.6
 174 102.3 79.5 119.3





#47

Bromodichloromethane

Concen: 52.685 ug/l

RT: 9.39 min Scan# 810

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

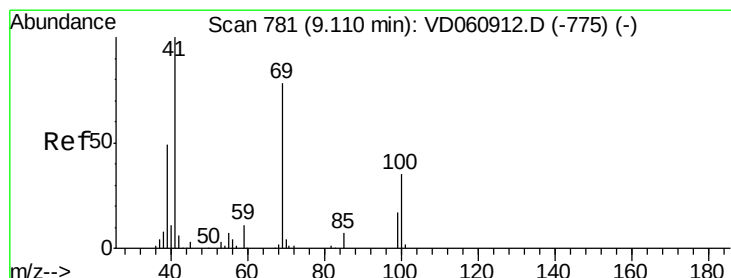
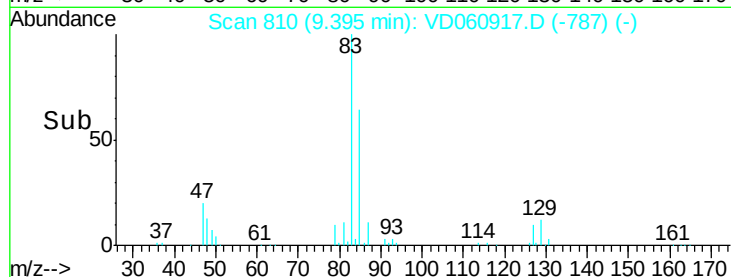
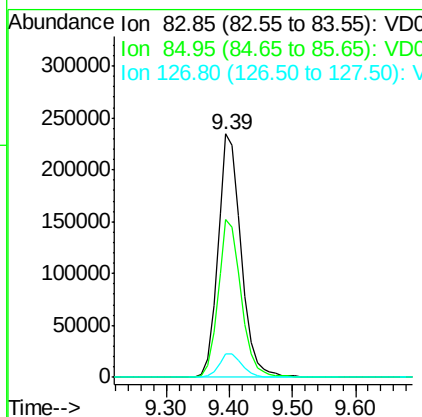
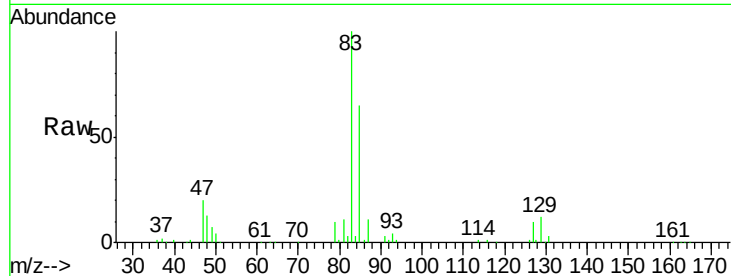
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	599807
Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.2	78.4
127	9.8	8.2	12.4

Manual Integrations
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MMDadoda
3/5/2019 10:49:08 AM



#48

Methyl methacrylate

Concen: 49.537 ug/l

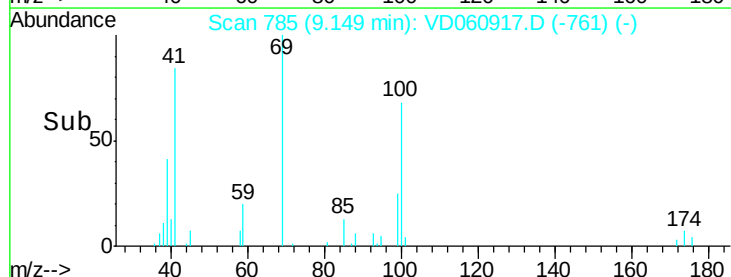
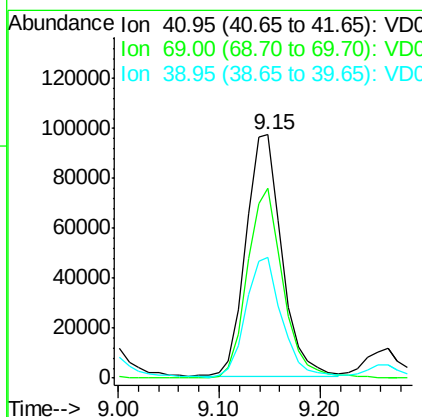
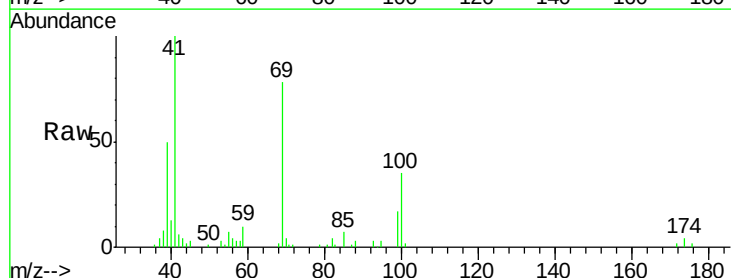
RT: 9.15 min Scan# 785

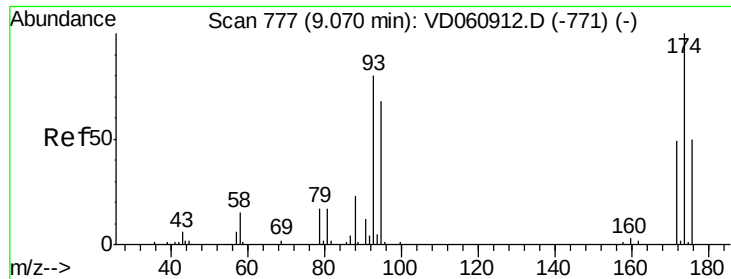
Delta R.T. 0.04 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:	41	Resp:	239404
Ion	Ratio	Lower	Upper
41	100		
69	77.8	62.1	93.1
39	49.8	39.5	59.3





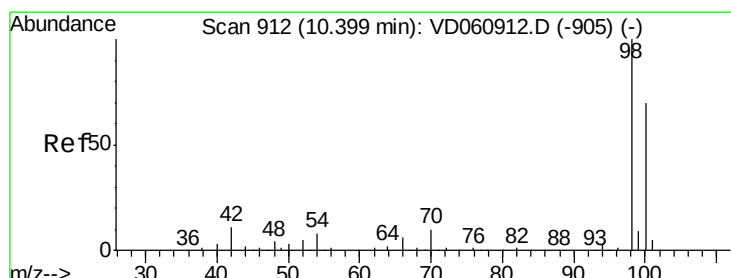
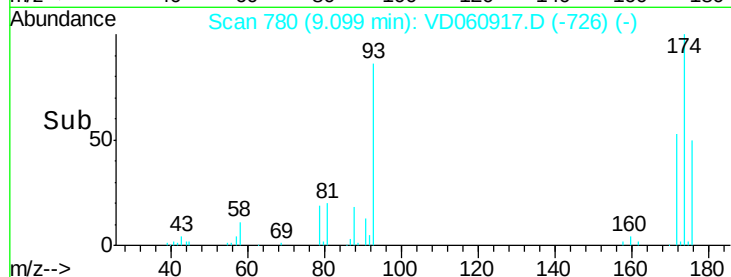
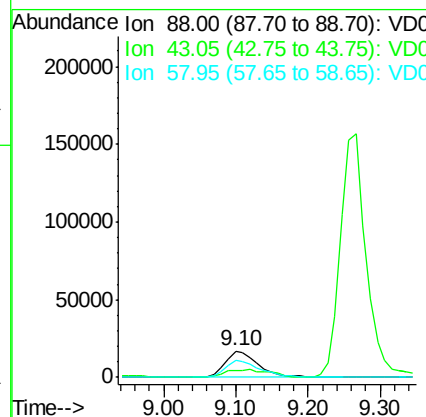
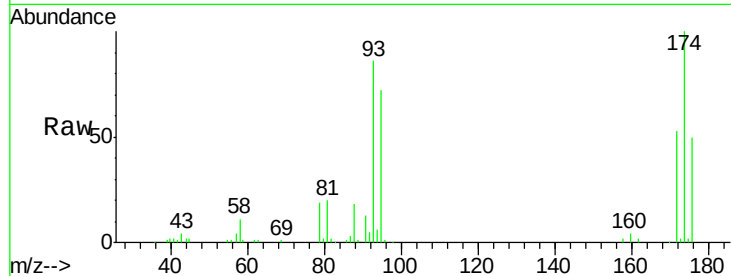
#49
1,4-Dioxane
Concen: 1064.473 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	24.4	24.2	36.4
58	63.2	51.1	76.7

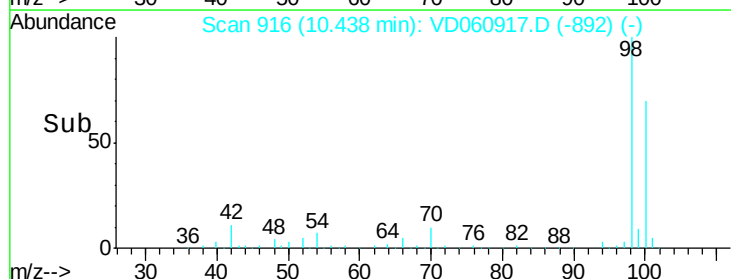
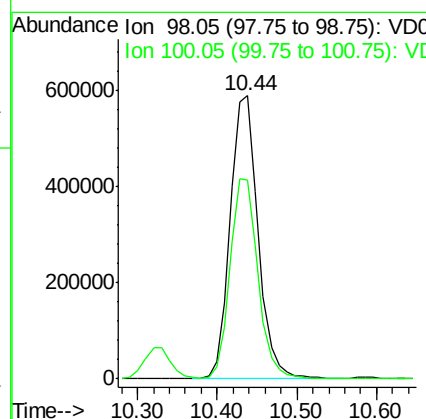
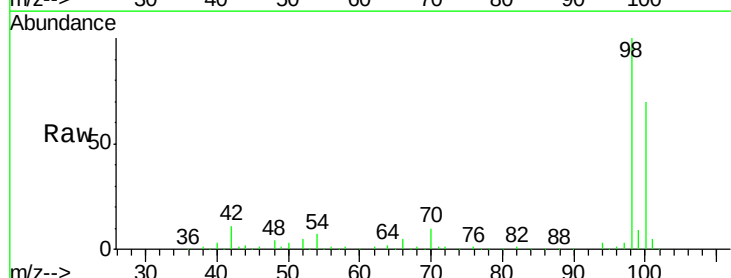
Manual Integrations
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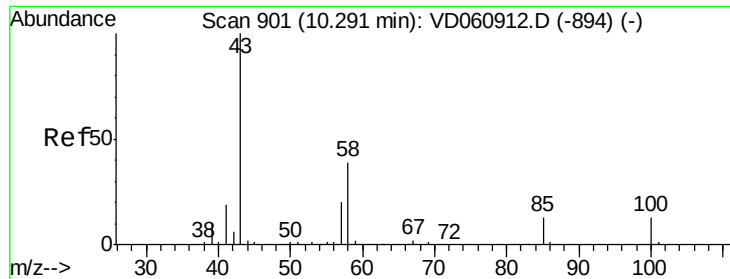
MMDadoda
3/5/2019 10:49:08 AM



#50
Toluene-d8
Concen: 1064.473 ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.2	57.0	85.4





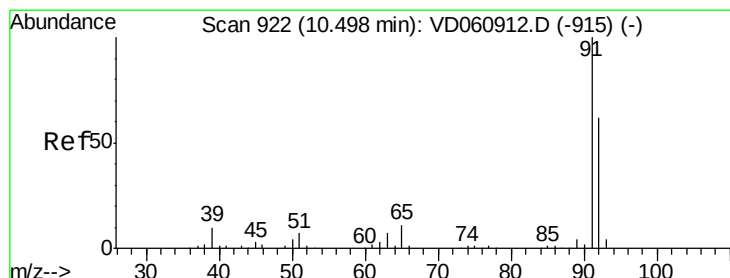
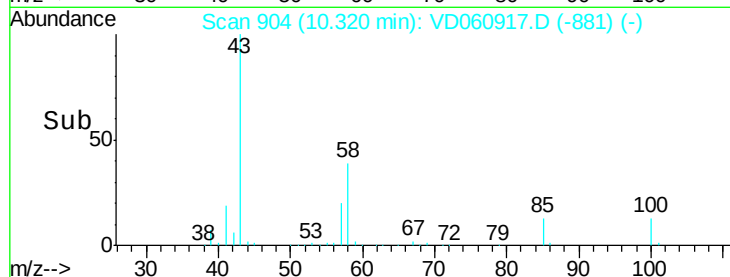
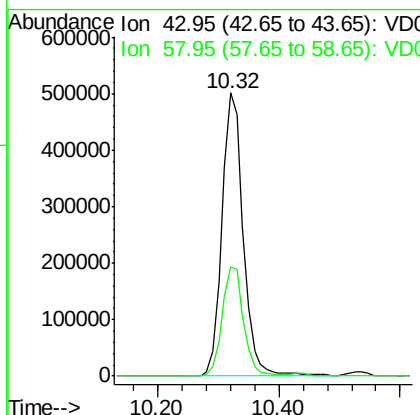
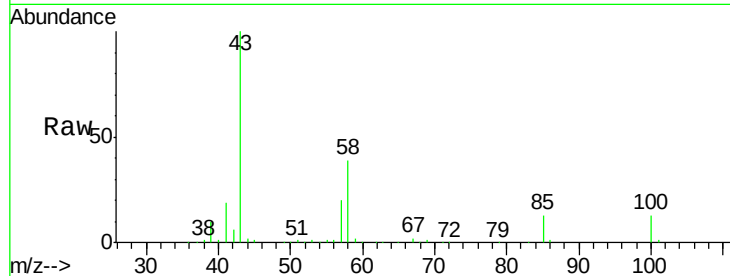
#51
4-Methyl-2-Pentanone
Concen: 233.032 ug/l
RT: 10.32 min Scan# 904
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1220427
Ion Ratio Lower Upper
43 100
58 38.5 31.0 46.6

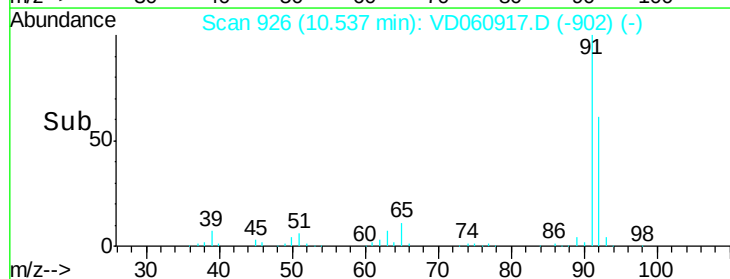
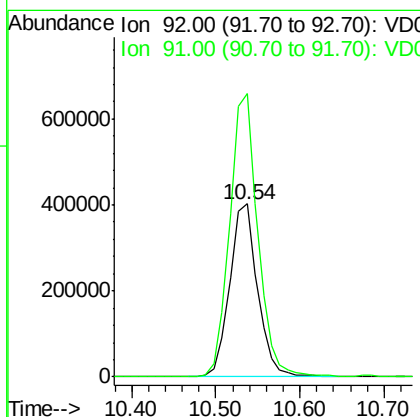
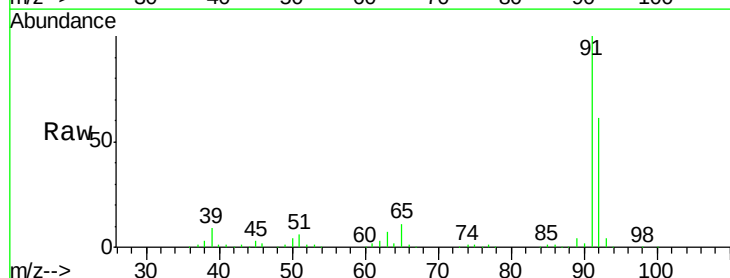
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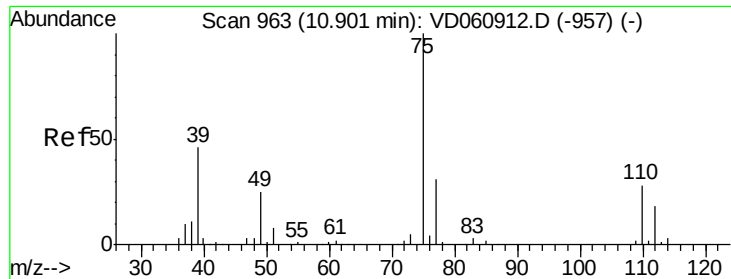
MMDadoda
3/5/2019 10:49:08 AM



#52
Toluene
Concen: 47.395 ug/l
RT: 10.54 min Scan# 926
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 92 Resp: 930668
Ion Ratio Lower Upper
92 100
91 163.8 129.9 194.9





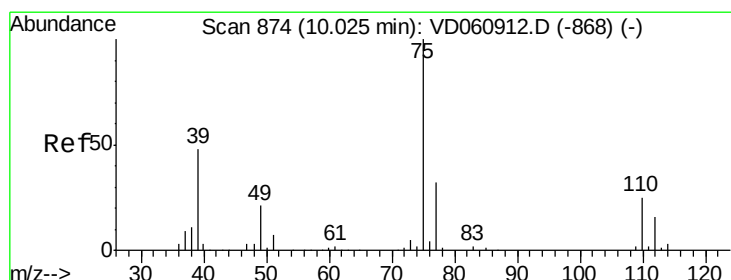
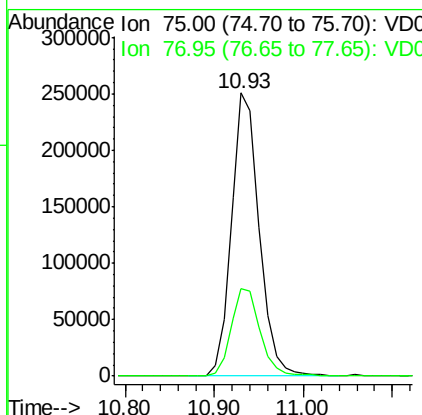
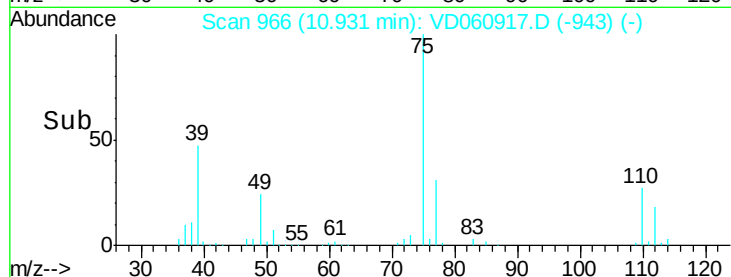
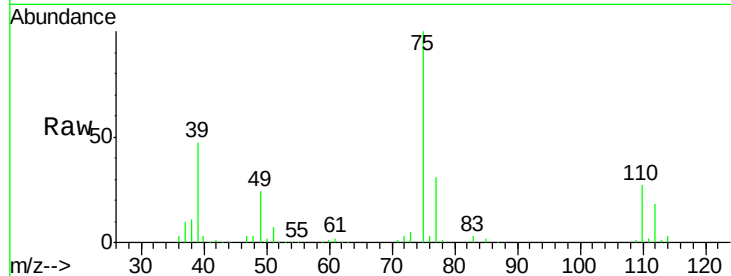
#53
t-1,3-Dichloropropene
Concen: 52.080 ug/l
RT: 10.93 min Scan# 966
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 545631
Ion Ratio Lower Upper
75 100
77 31.0 24.9 37.3

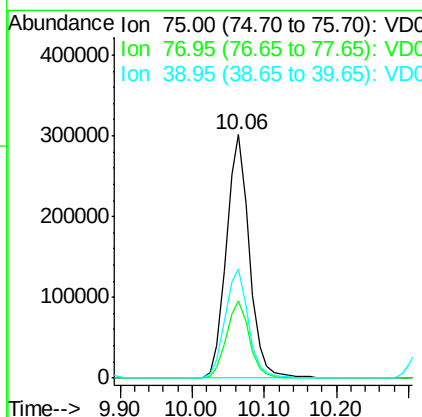
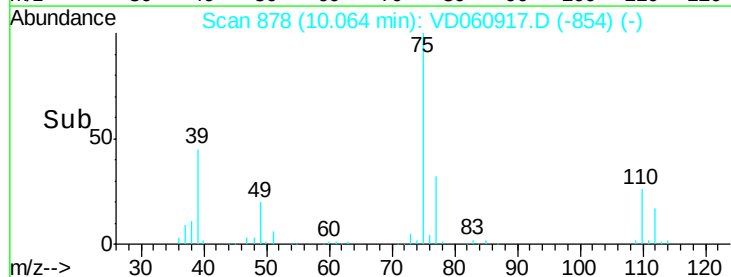
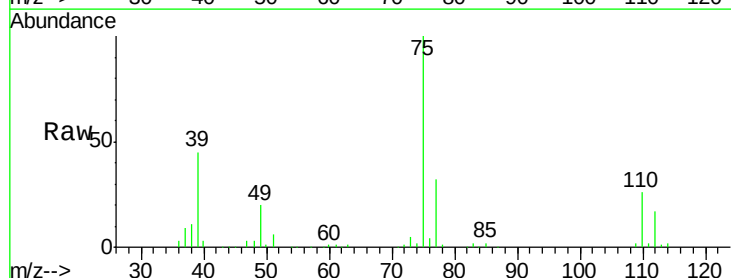
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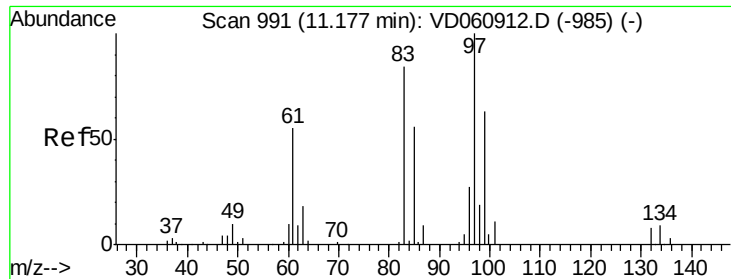
MMDadoda
3/5/2019 10:49:08 AM



#54
cis-1,3-Dichloropropene
Concen: 51.434 ug/l
RT: 10.06 min Scan# 878
Delta R.T. 0.04 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 75 Resp: 668181
Ion Ratio Lower Upper
75 100
77 31.6 25.3 37.9
39 45.0 38.2 57.4





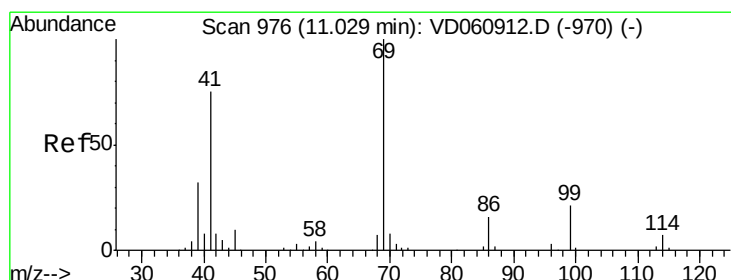
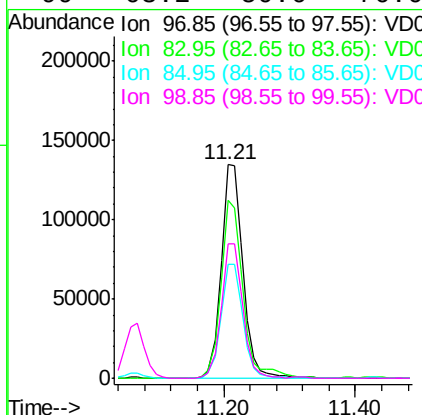
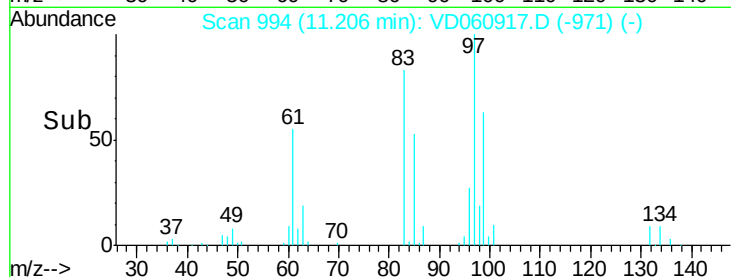
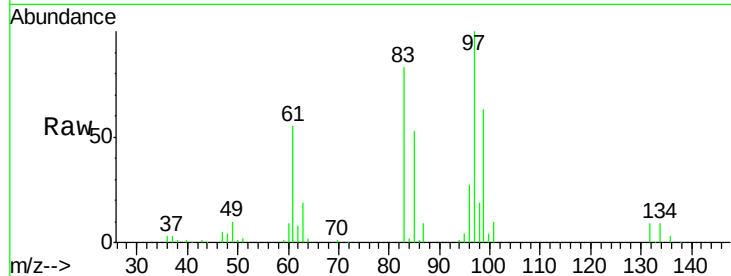
#55
 1,1,2-Trichloroethane
 Concen: 47.634 ug/l
 RT: 11.21 min Scan# 994
 Delta R.T. 0.03 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	309323
Ion Ratio	Lower	Upper	
97	100		
83	83.4	67.5	101.3
85	53.4	44.9	67.3
99	63.2	50.6	76.0

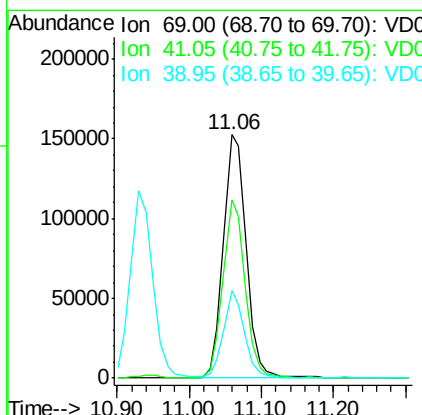
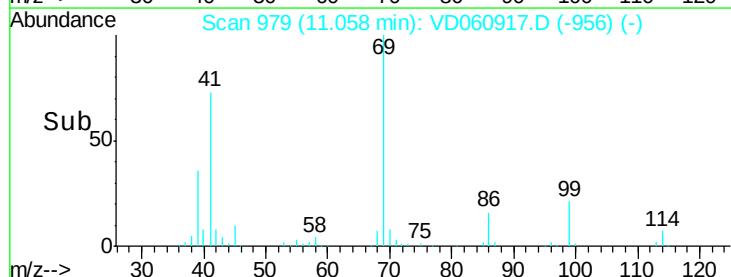
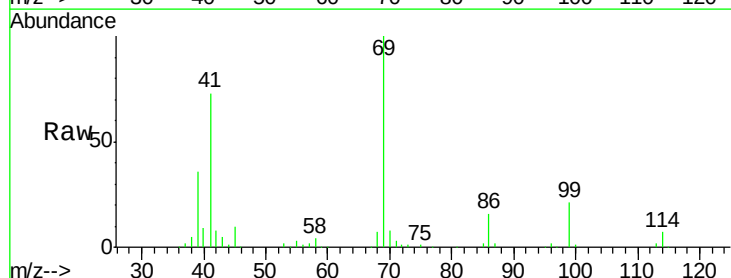
Manual Integrations
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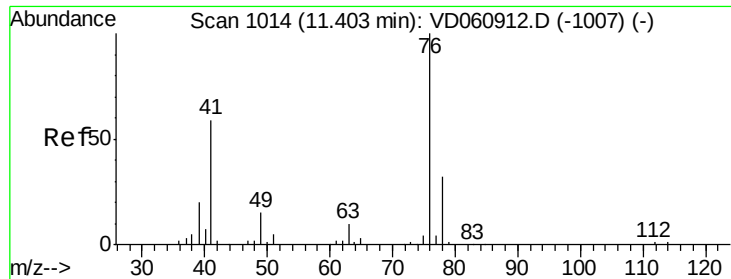
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#56
 Ethyl methacrylate
 Concen: 48.683 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. 0.03 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion:	69	Resp:	335141
Ion Ratio	Lower	Upper	
69	100		
41	73.2	59.9	89.9
39	35.7	25.7	38.5





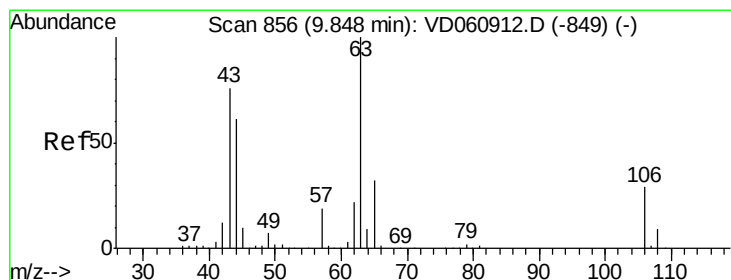
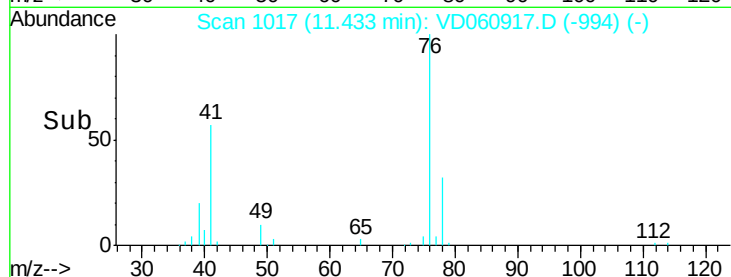
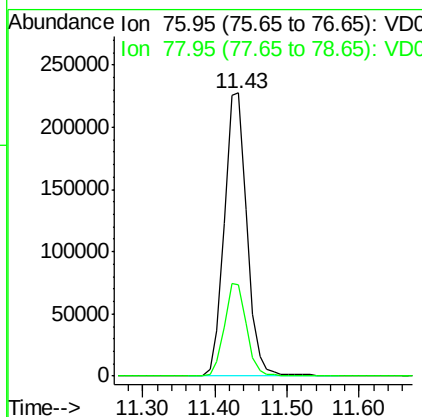
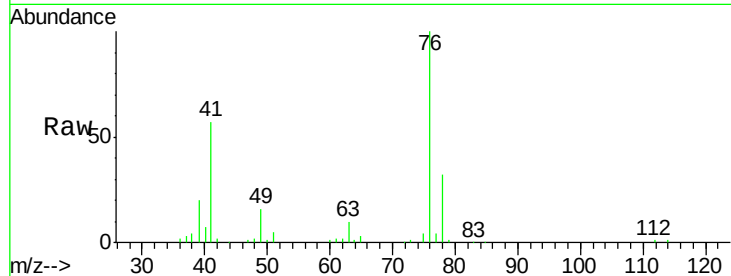
#57
 1,3-Dichloropropane
 Concen: 52.165 ug/l
 RT: 11.43 min Scan# 1017
 Delta R.T. 0.03 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 492502
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.6 38.4

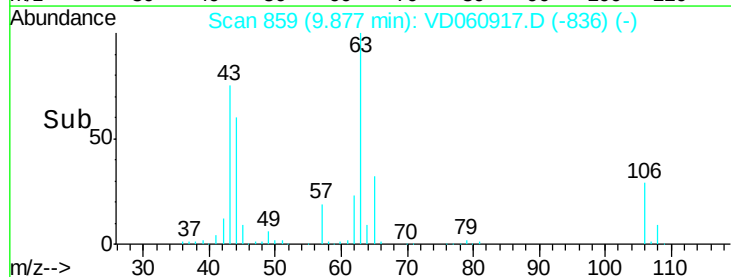
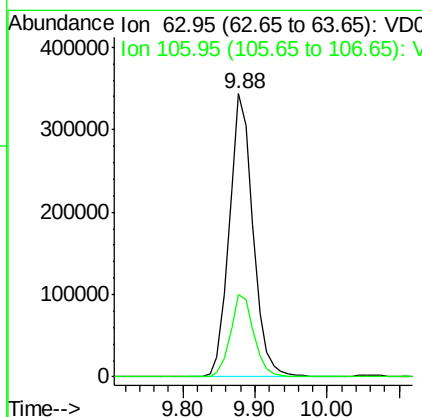
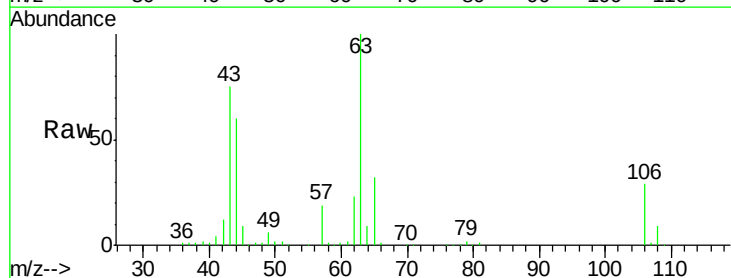
Manual Integrations
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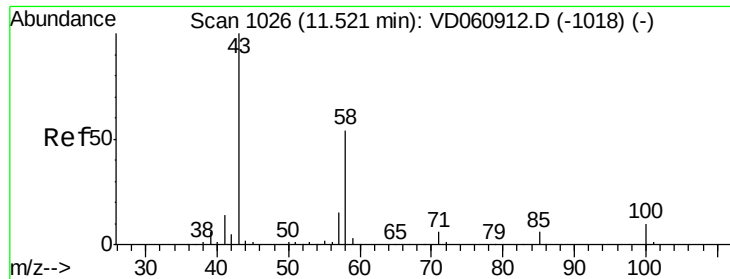
MMDadoda
 3/5/2019 10:49:08 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 214.140 ug/l
 RT: 9.88 min Scan# 859
 Delta R.T. 0.03 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion: 63 Resp: 787313
 Ion Ratio Lower Upper
 63 100
 106 29.0 23.0 34.6





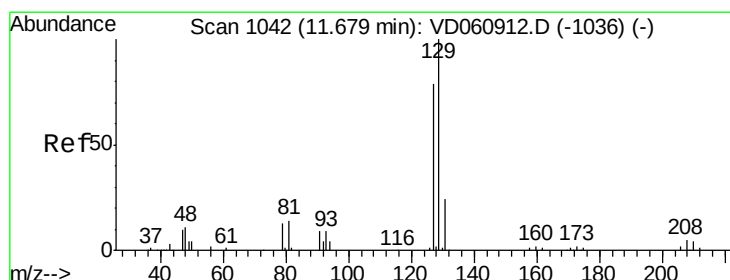
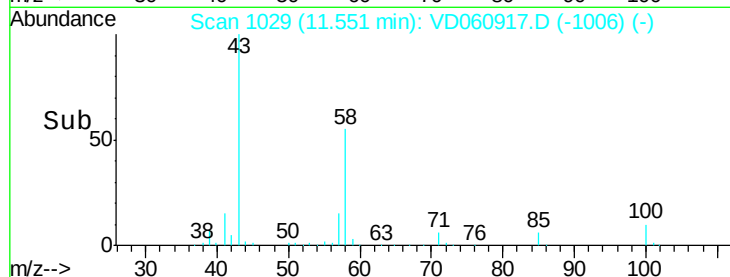
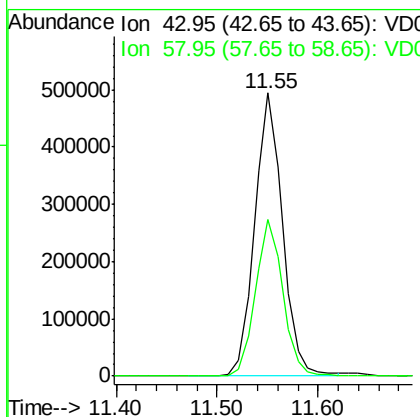
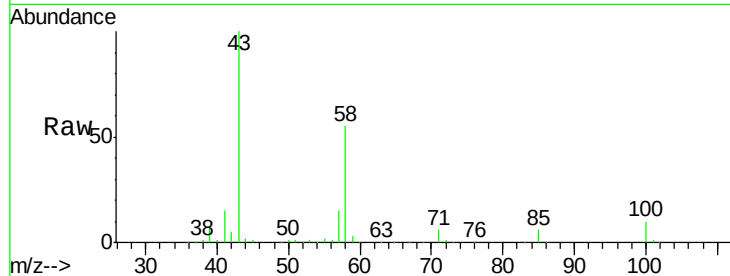
#59
2-Hexanone
Concen: 258.692 ug/l
RT: 11.55 min Scan# 1029
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 949720
Ion Ratio Lower Upper
43 100
58 55.2 27.2 81.5

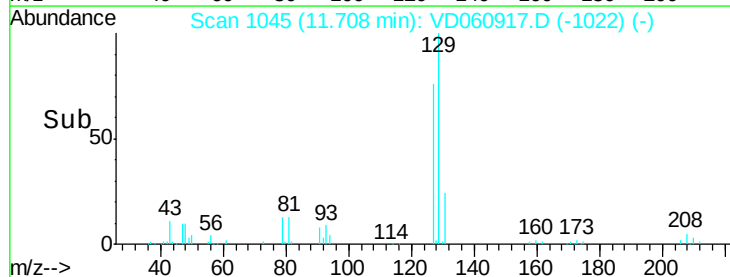
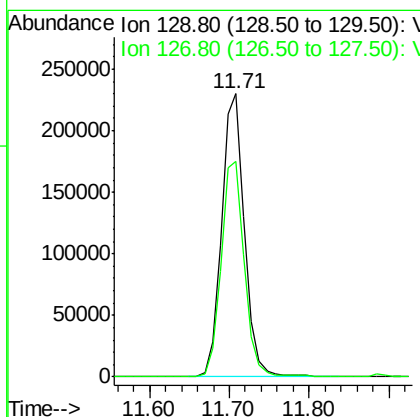
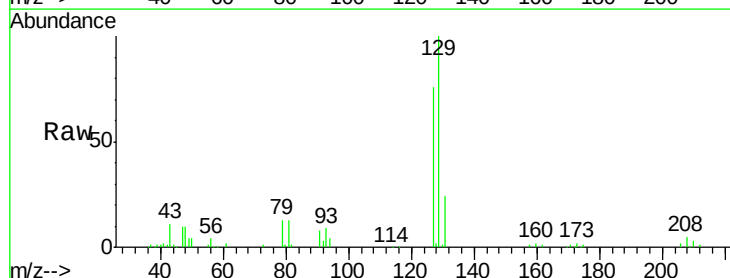
Manual Integrations
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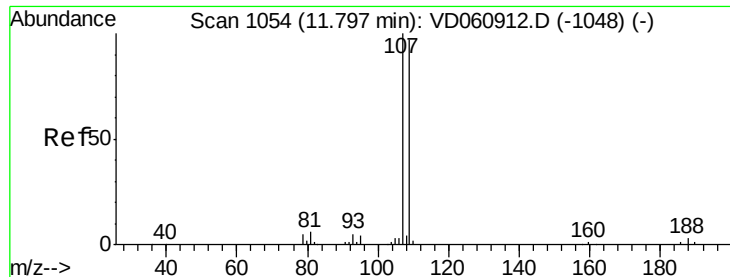
MMDadoda
3/5/2019 10:49:08 AM



#60
Dibromochloromethane
Concen: 49.405 ug/l
RT: 11.71 min Scan# 1045
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 129 Resp: 462706
Ion Ratio Lower Upper
129 100
127 76.0 39.4 118.1





#61

1,2-Dibromoethane

Concen: 48.454 ug/l

RT: 11.83 min Scan# 1057

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 369648

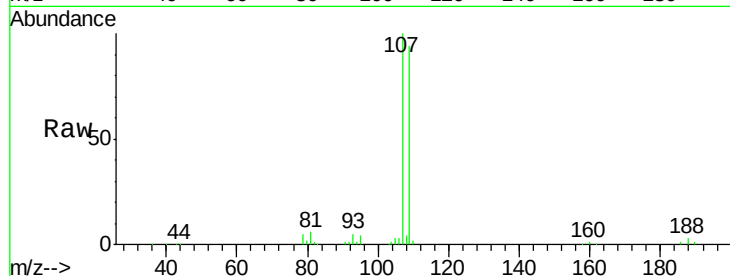
Ion Ratio Lower Upper

107 100

109 94.2 78.0 117.0

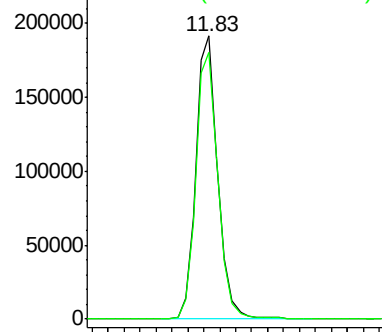
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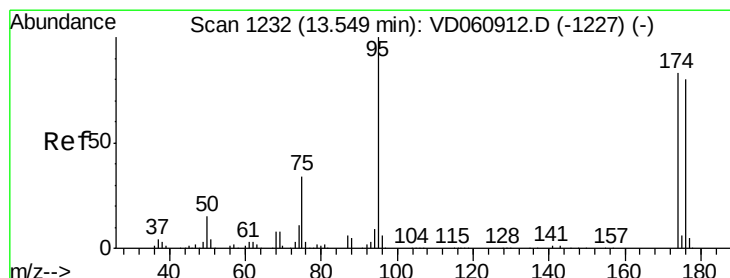
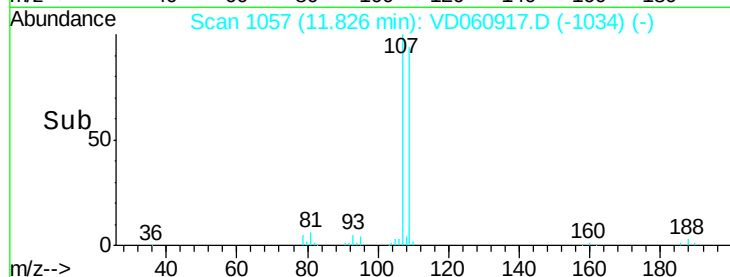


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



Time-->



#62

4-Bromofluorobenzene

Concen: 48.454 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

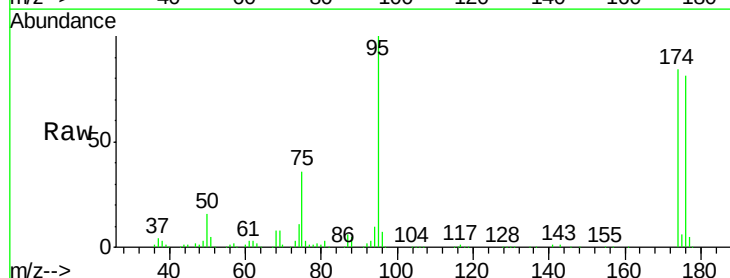
Tgt Ion: 95 Resp: 525822

Ion Ratio Lower Upper

95 100

174 83.7 0.0 165.6

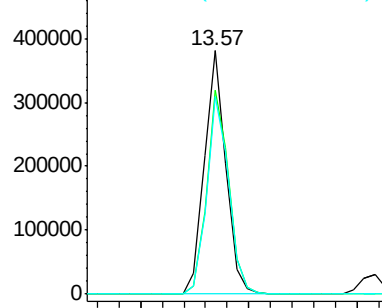
176 81.1 0.0 160.6



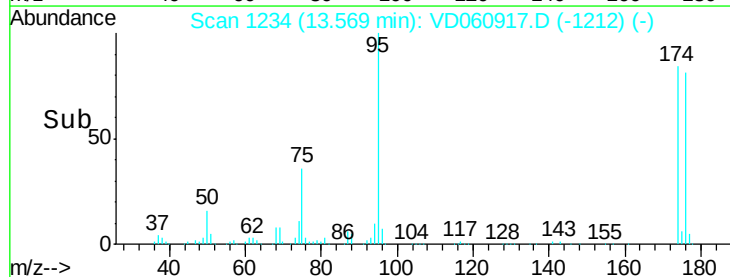
Abundance Ion 95.00 (94.70 to 95.70): V

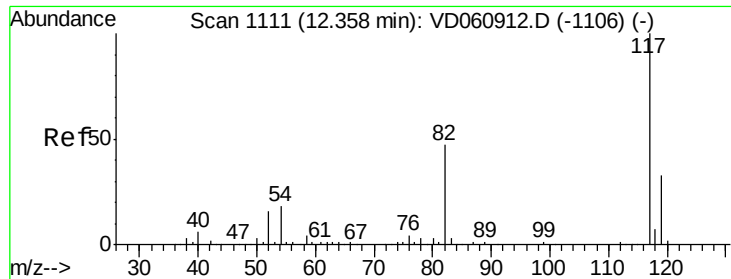
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:117 Resp: 1121039

Ion Ratio Lower Upper

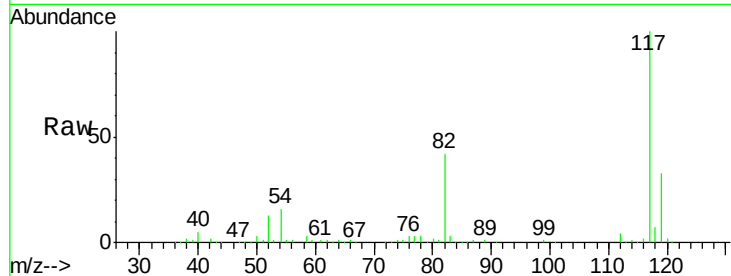
117 100

82 42.0 37.5 56.3

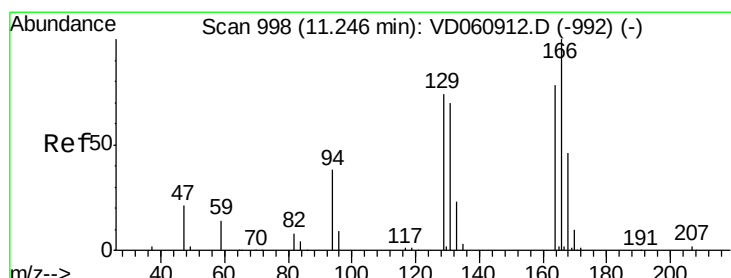
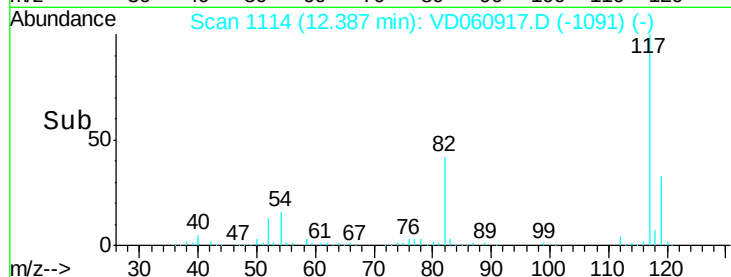
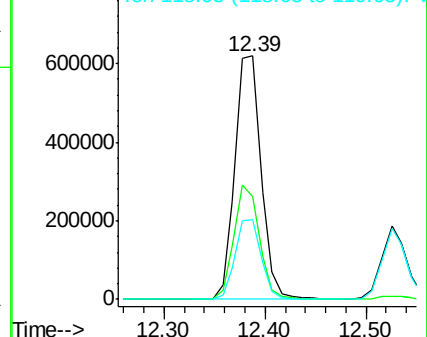
119 32.8 26.2 39.2

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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: 47.483 ug/l

RT: 11.28 min Scan# 1001

Delta R.T. 0.03 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:164 Resp: 407473

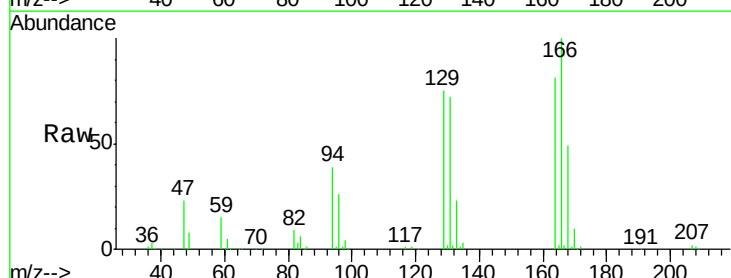
Ion Ratio Lower Upper

164 100

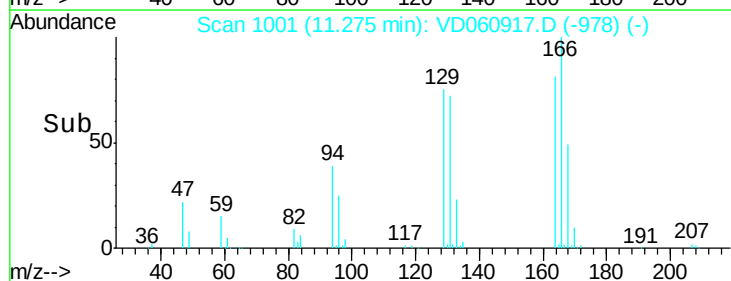
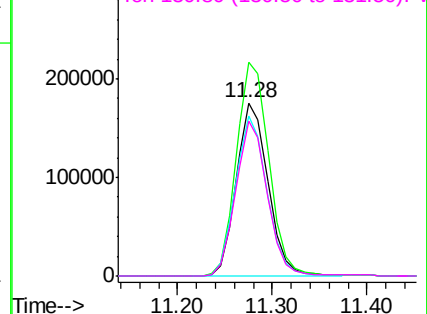
166 123.2 102.3 153.5

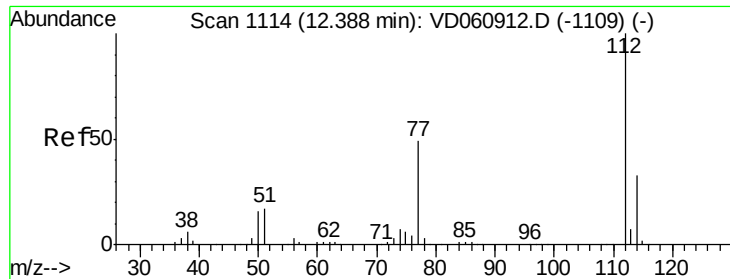
129 92.3 75.6 113.4

131 89.0 72.0 108.0



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





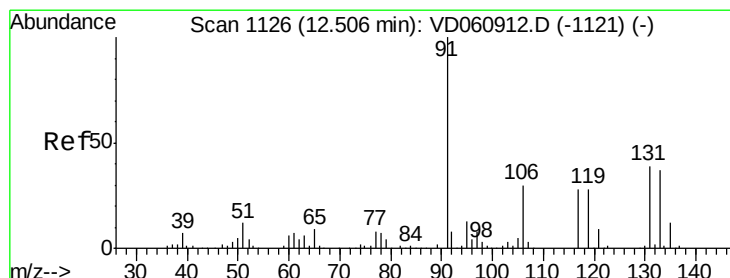
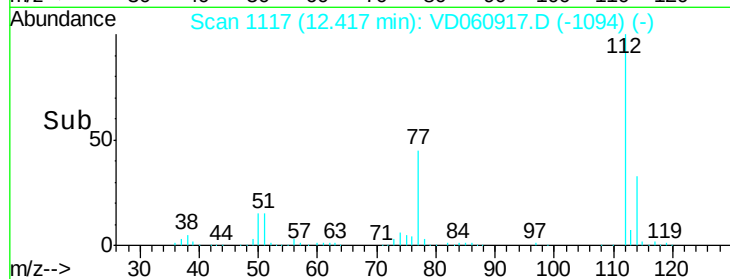
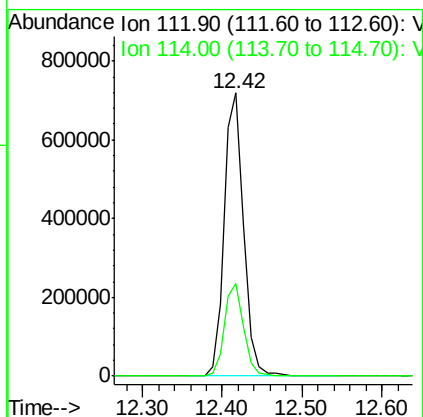
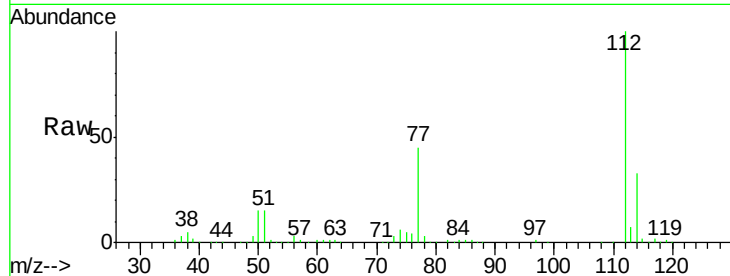
#65
Chlorobenzene
Concen: 49.453 ug/l
RT: 12.42 min Scan# 1117
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1234273
Ion Ratio Lower Upper
112 100
114 32.9 26.0 39.0

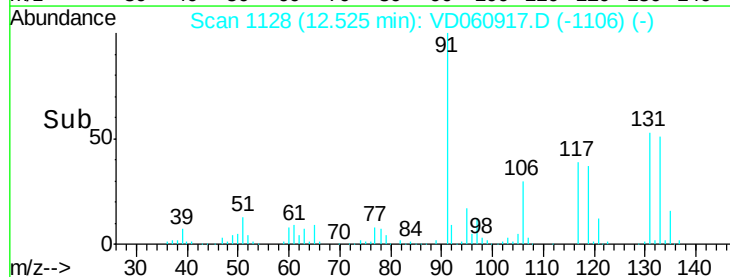
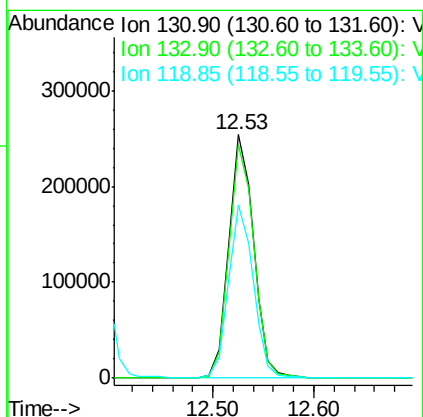
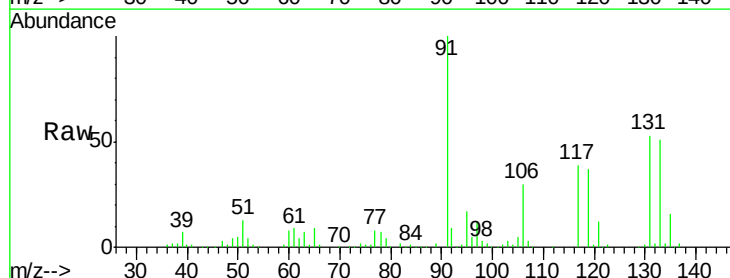
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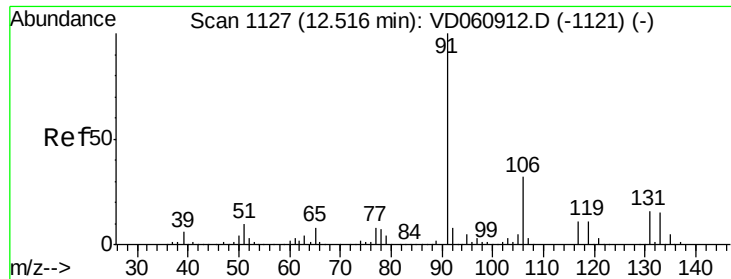
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 48.287 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion:131 Resp: 432480
Ion Ratio Lower Upper
131 100
133 96.0 47.4 142.3
119 71.0 36.0 108.1





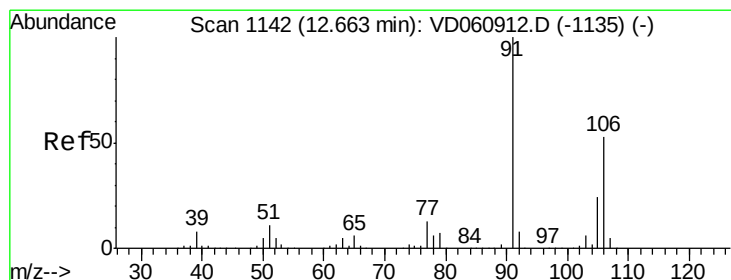
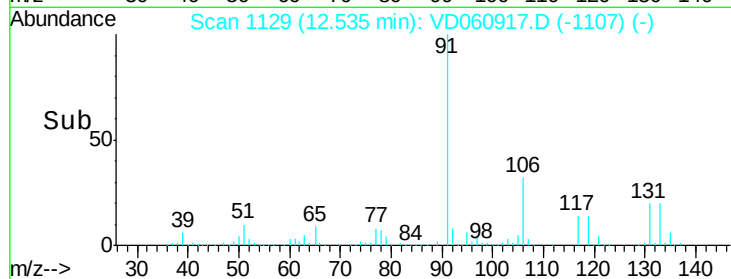
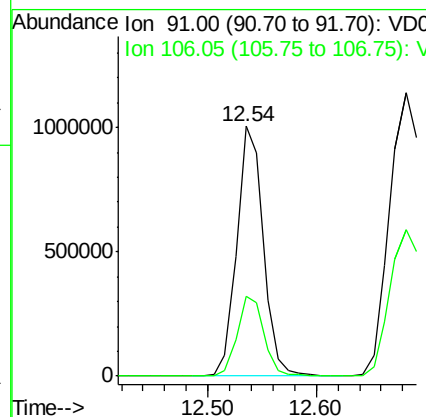
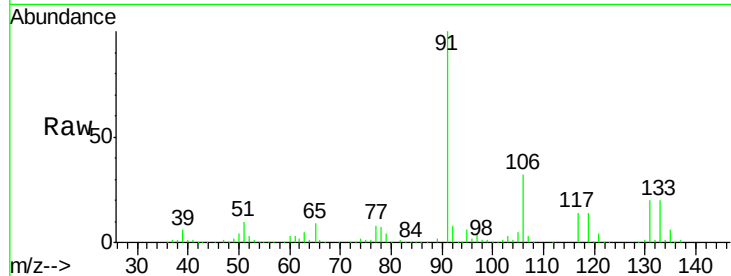
#67
Ethyl Benzene
Concen: 47.132 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1712836
Ion Ratio Lower Upper
91 100
106 31.9 25.8 38.6

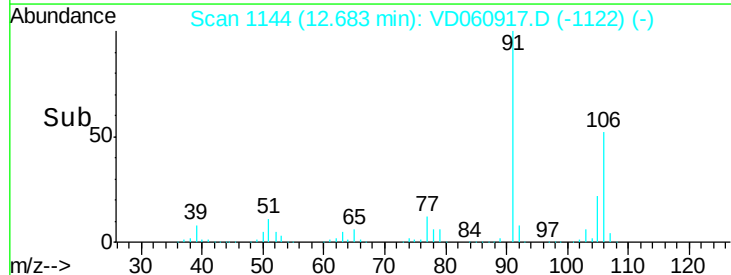
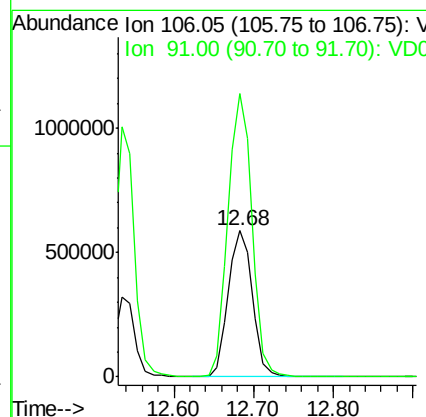
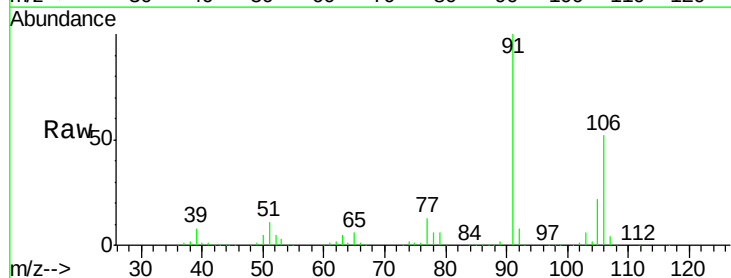
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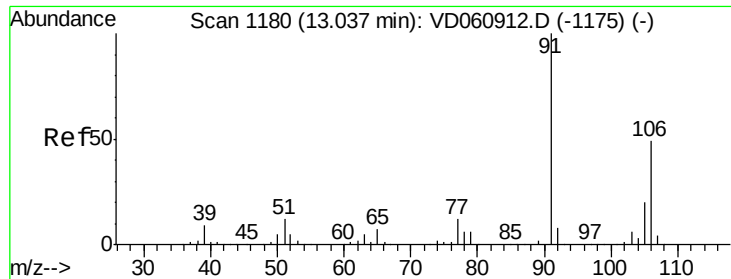
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#68
m/p-Xylenes
Concen: 87.127 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 106 Resp: 1265034
Ion Ratio Lower Upper
106 100
91 194.1 150.2 225.4





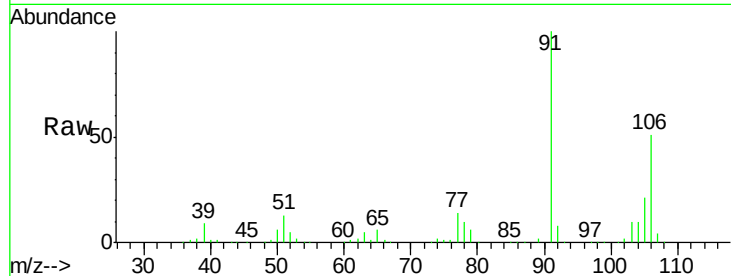
#69
o-Xylene
Concen: 46.910 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.03 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

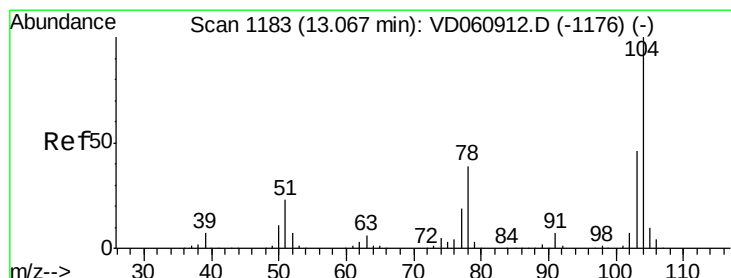
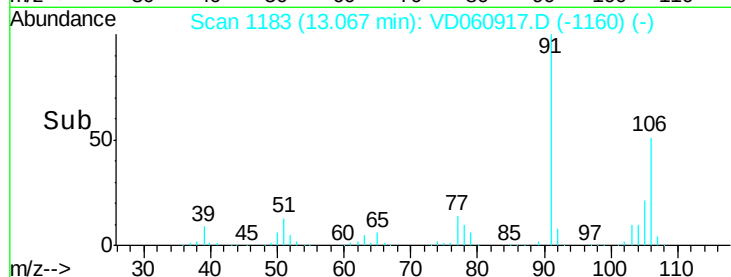
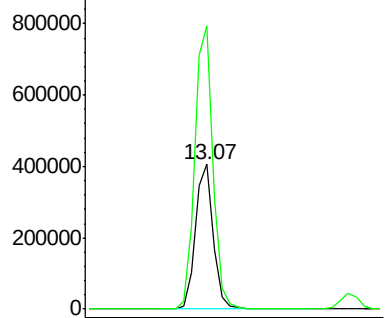
Tot Ion:106 Resp: 639797
Ion Ratio Lower Upper
106 100
91 195.7 102.9 308.7

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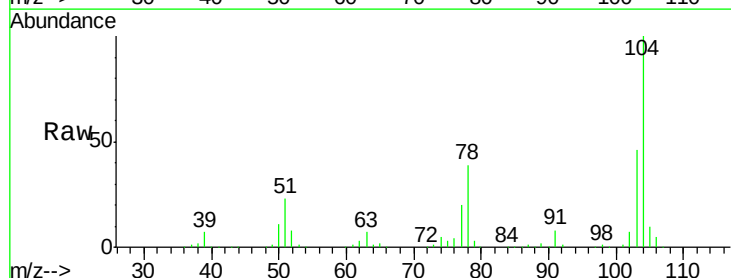


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

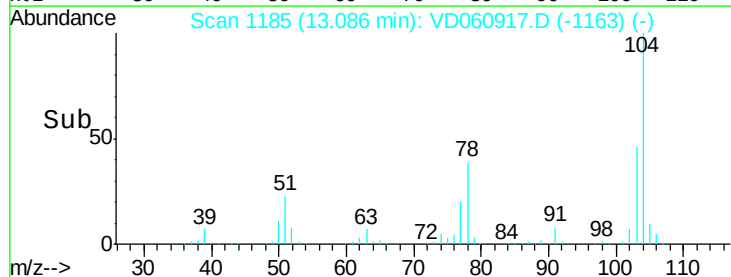
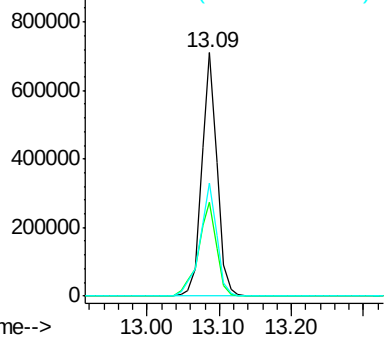


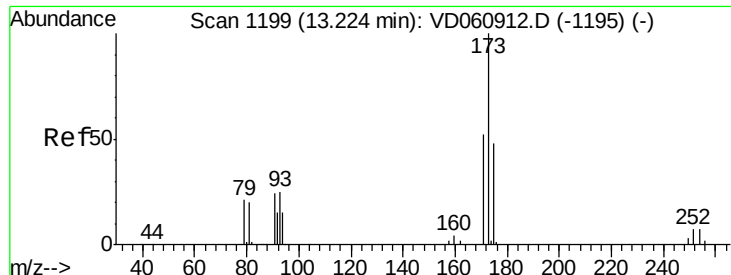
#70
Styrene
Concen: 45.728 ug/l
RT: 13.09 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion:104 Resp: 1040557
Ion Ratio Lower Upper
104 100
78 38.8 31.0 46.4
103 46.3 36.5 54.7



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 49.512 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

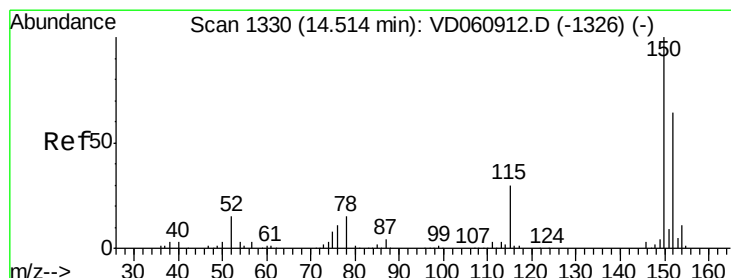
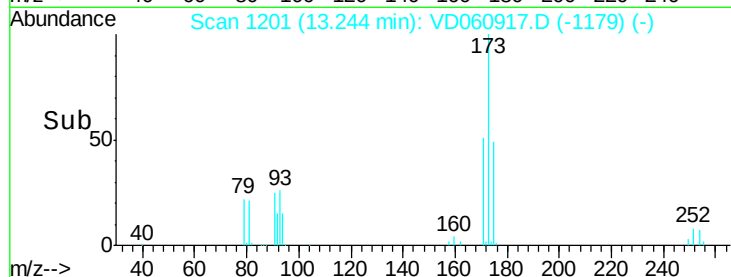
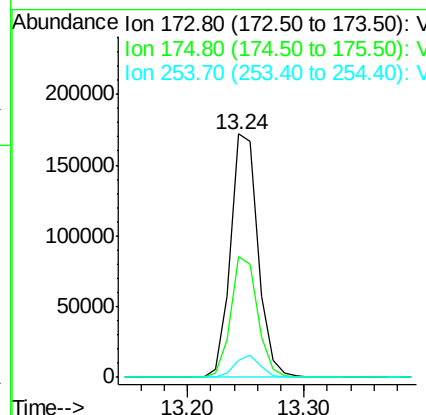
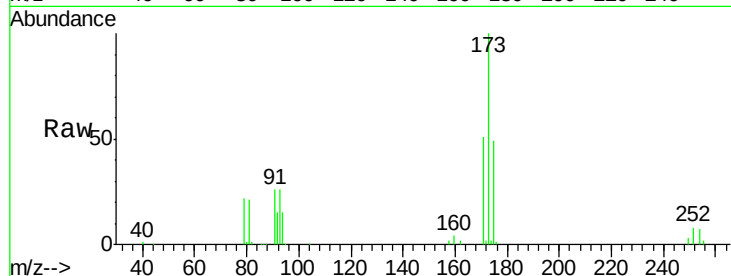
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.1	72.3
254	7.1	5.6	8.4

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

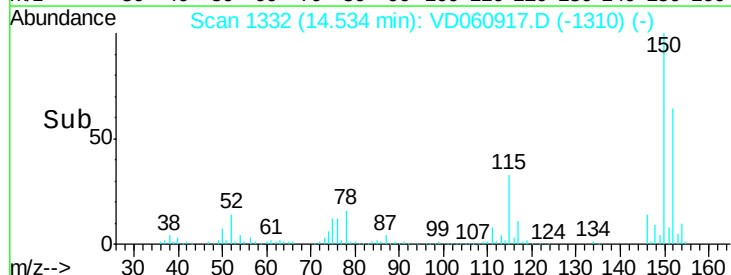
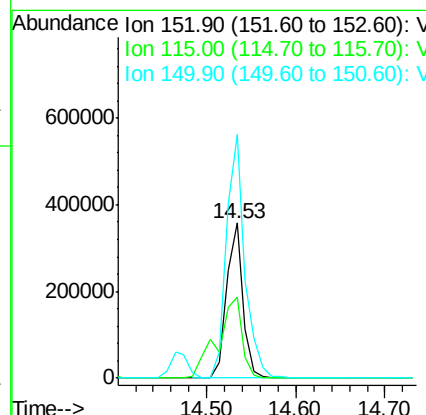
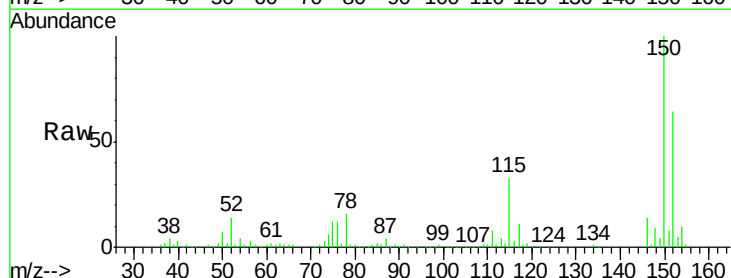
RT: 14.53 min Scan# 1332

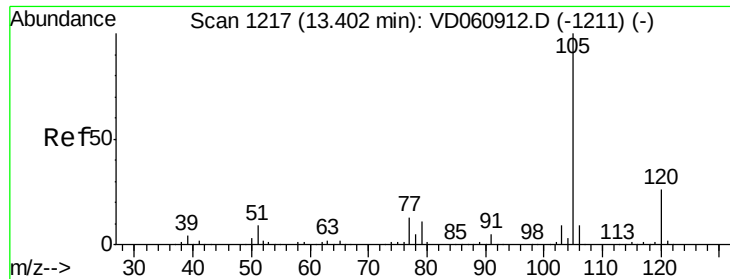
Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.9	27.6	82.8
150	157.1	0.0	312.8





#73

Isopropylbenzene

Concen: 45.784 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1632498

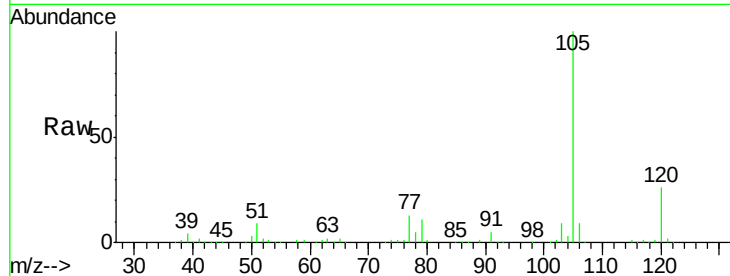
Ion Ratio Lower Upper

105 100

120 25.6 12.9 38.7

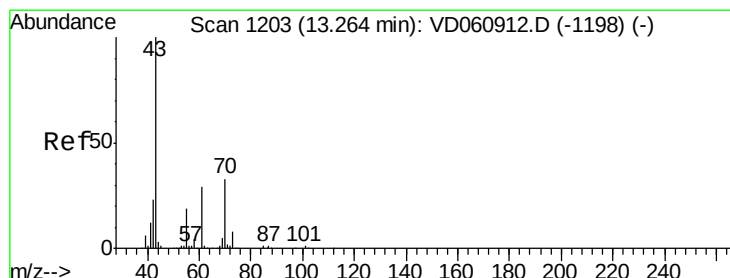
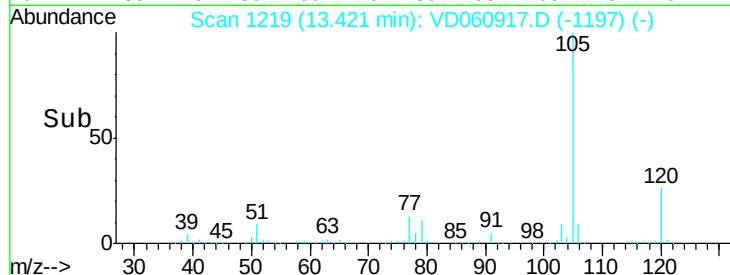
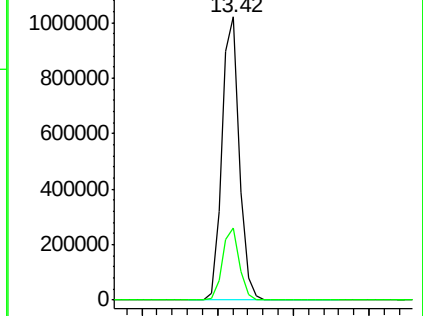
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 49.154 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion: 43 Resp: 523548

Ion Ratio Lower Upper

43 100

70 31.7 26.3 39.5

55 19.0 15.4 23.2

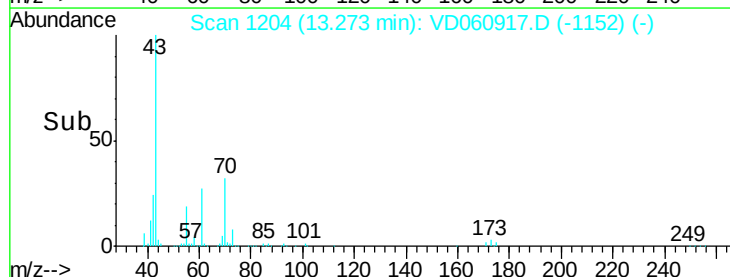
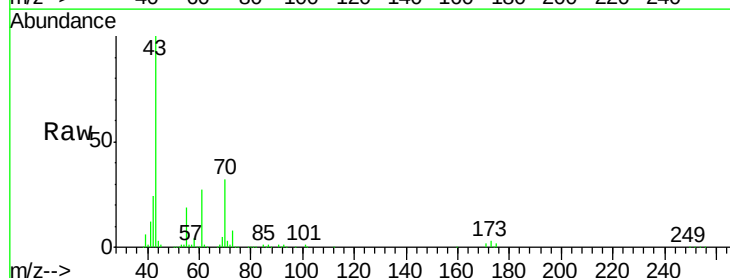
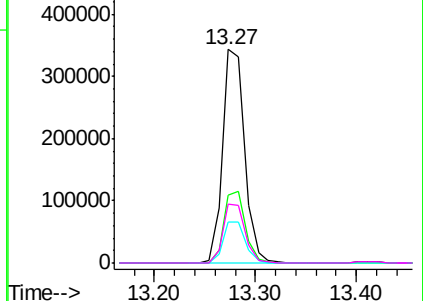
61 27.3 23.4 35.0

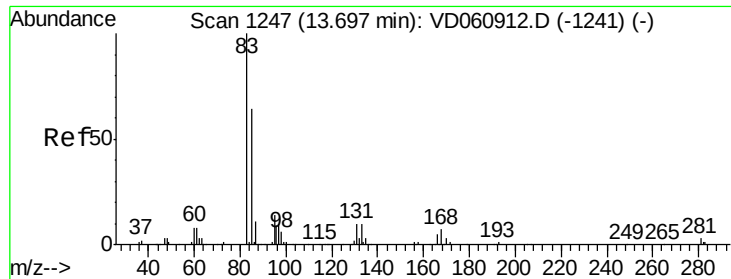
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 45.636 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

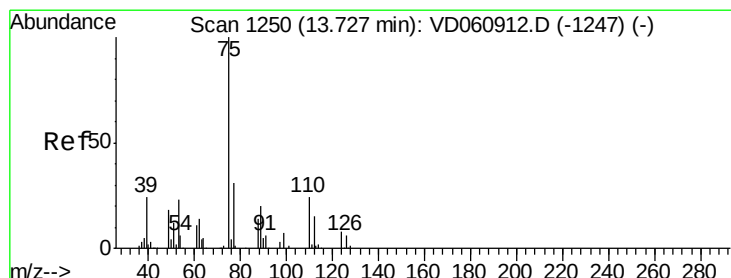
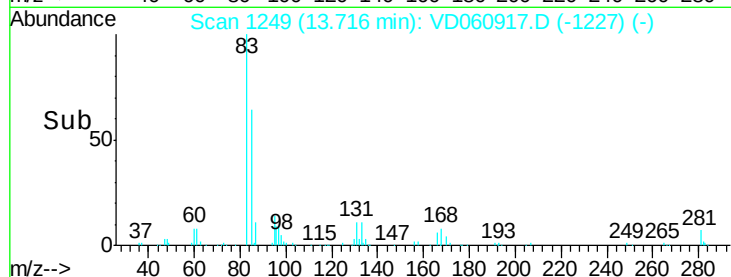
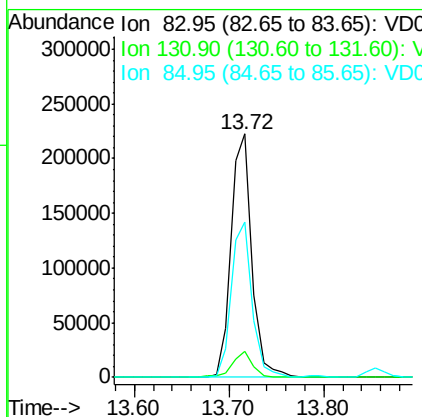
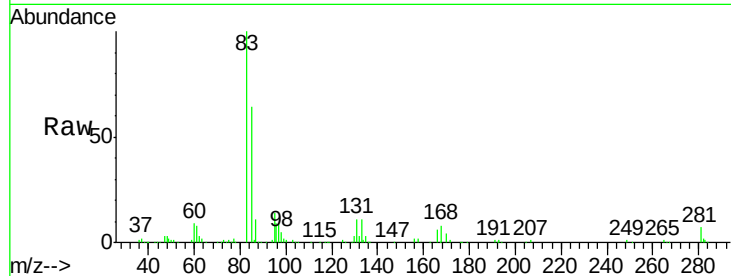
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	337482
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.1	15.2
85	64.0	32.3	96.8

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3/5/2019 10:49:08 AM



#76

1,2,3-Trichloropropane

Concen: 49.921 ug/l

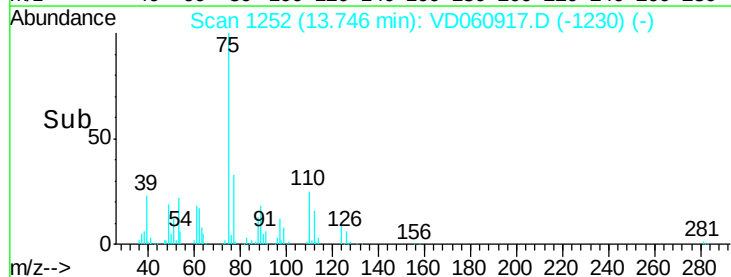
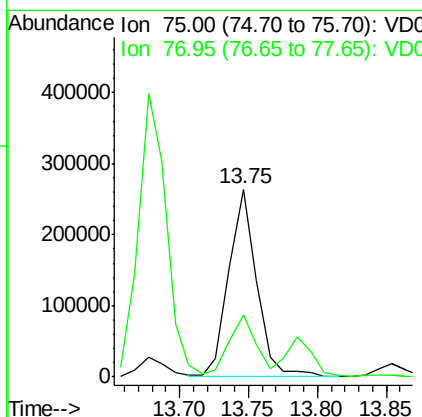
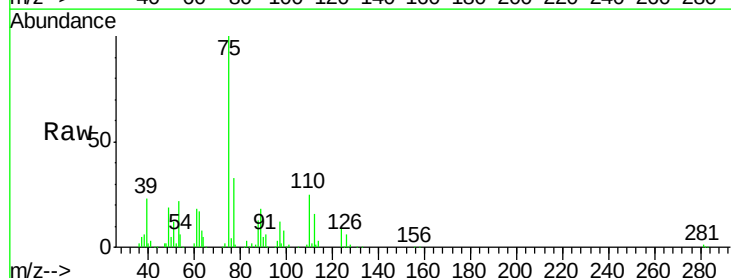
RT: 13.75 min Scan# 1252

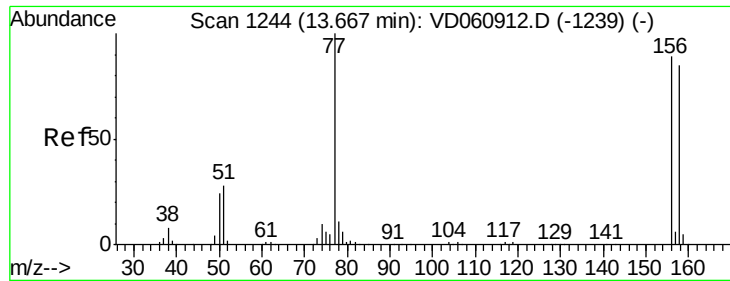
Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Tgt Ion:	75	Resp:	373292
Ion Ratio	Lower	Upper	
75	100		
77	33.0	16.2	48.6





#77

Bromobenzene

Concen: 48.445 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

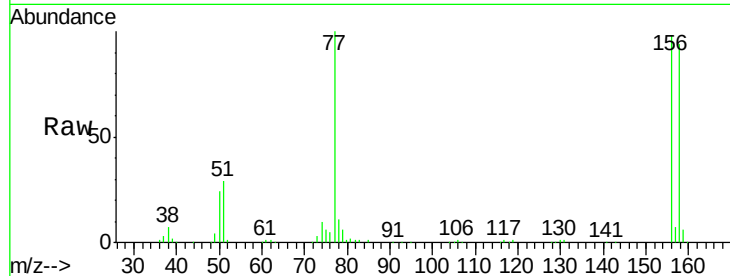
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		451511		
77	102.4	56.4	169.2		
158	96.0	48.0	144.2		

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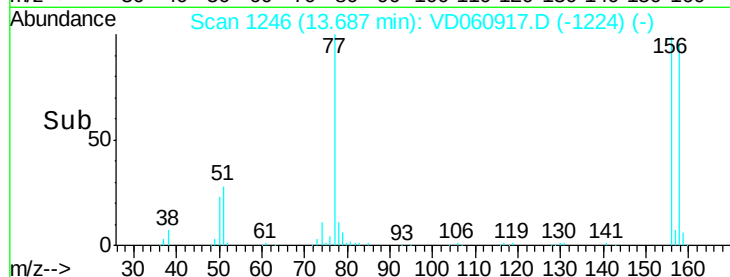


Abundance Ion 155.90 (155.60 to 156.60): V

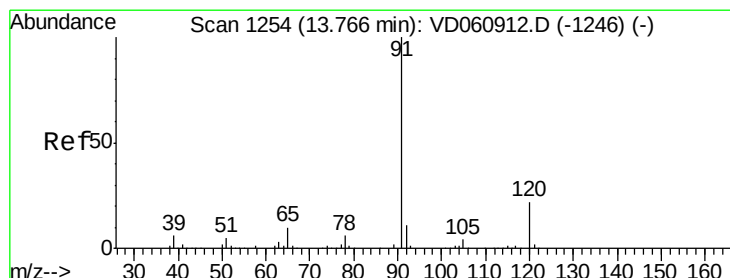
Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V

Time-->



Time-->



#78

n-propylbenzene

Concen: 51.462 ug/l

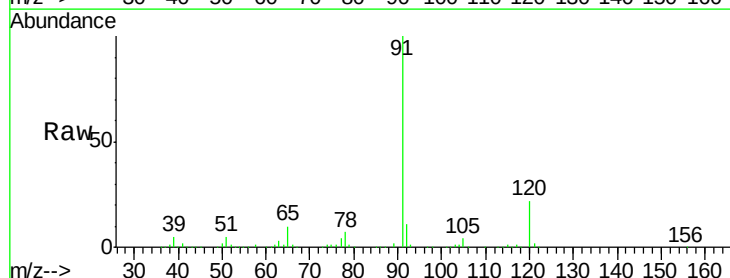
RT: 13.79 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

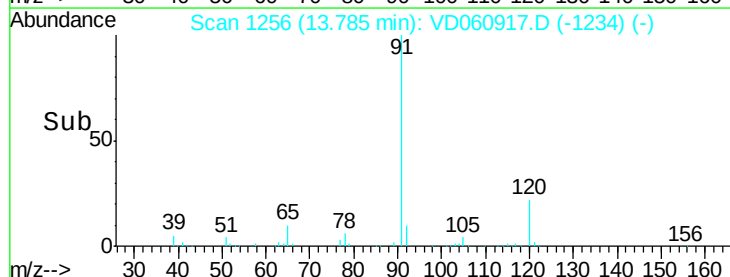
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		2111118		
120	22.1	11.0	33.0		



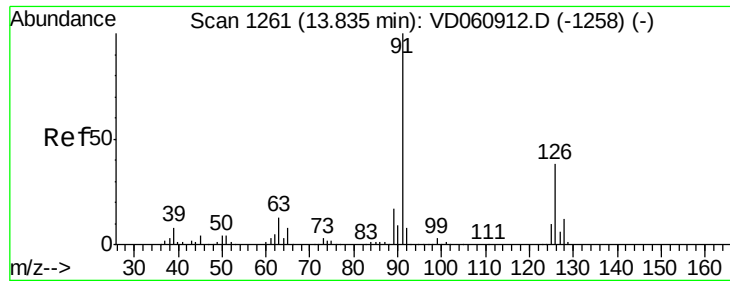
Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

Time-->



Time-->



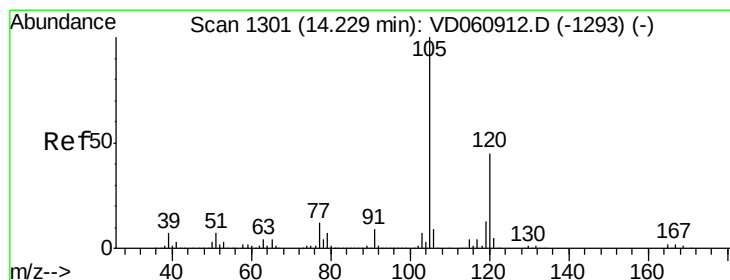
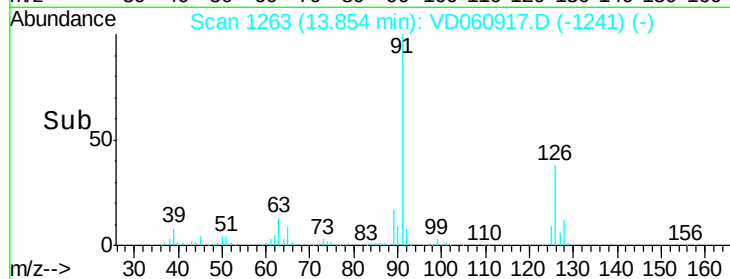
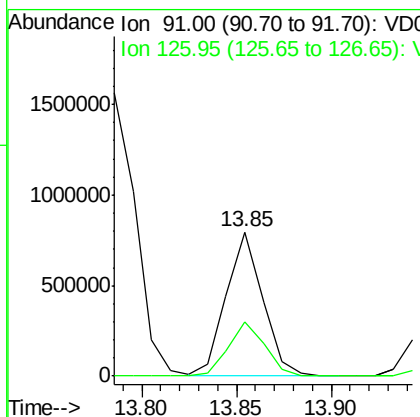
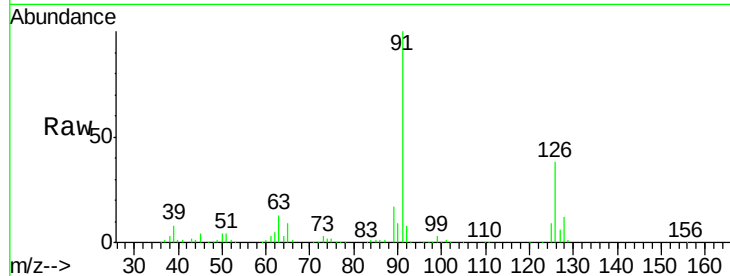
#79
2-Chlorotoluene
Concen: 44.929 ug/l
RT: 13.85 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1052639
Ion Ratio Lower Upper
91 100
126 37.6 18.8 56.3

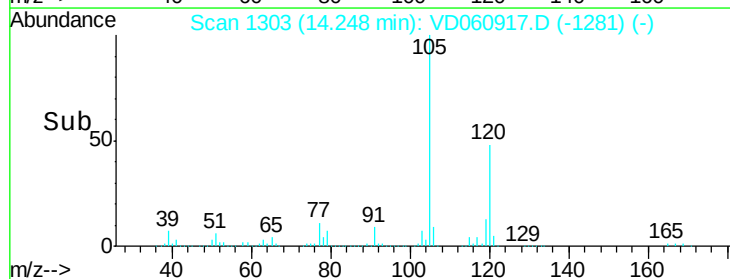
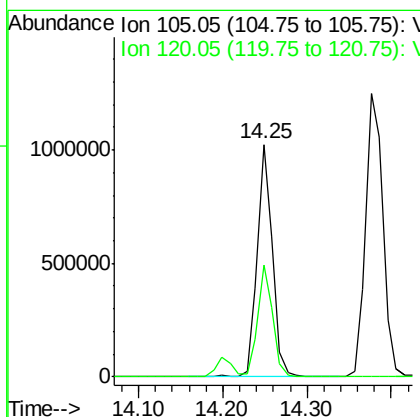
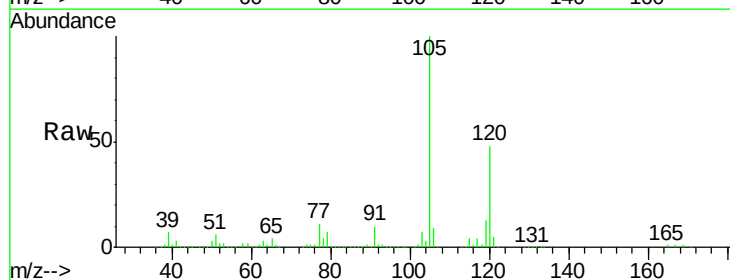
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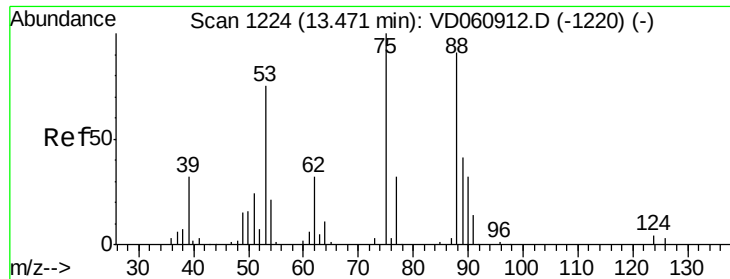
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#80
1,3,5-Trimethylbenzene
Concen: 48.359 ug/l
RT: 14.25 min Scan# 1303
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 105 Resp: 1307666
Ion Ratio Lower Upper
105 100
120 47.9 22.7 68.1





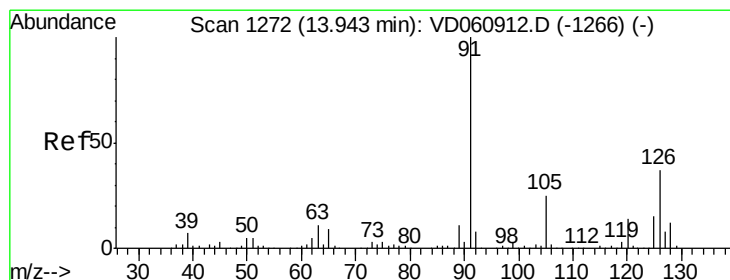
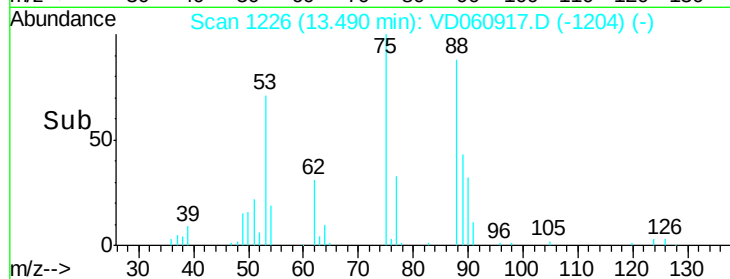
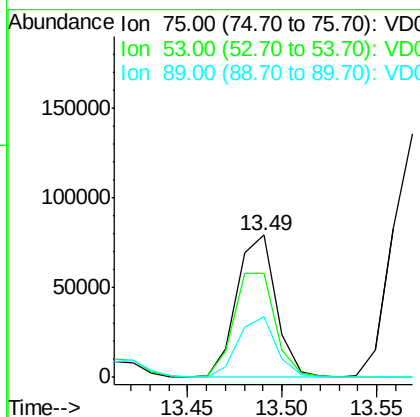
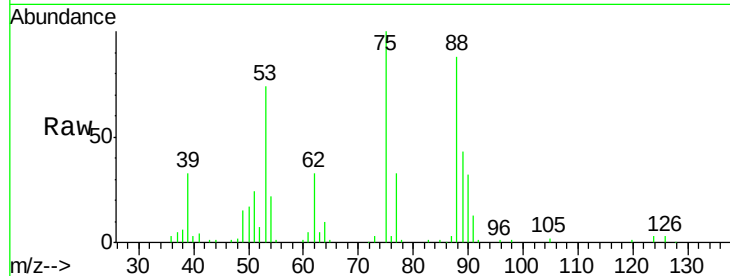
#81
trans-1,4-Dichloro-2-butene
Concen: 51.531 ug/l
RT: 13.49 min Scan# 1226
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	73.5	59.8	89.6
89	43.0	33.0	49.6

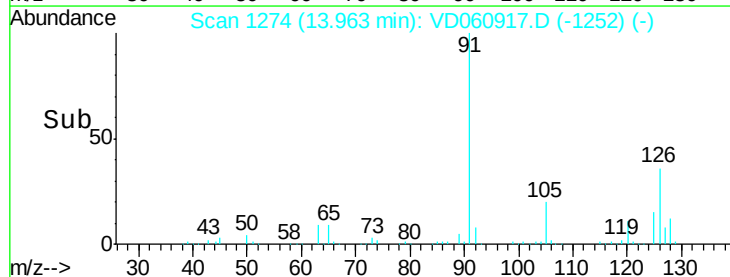
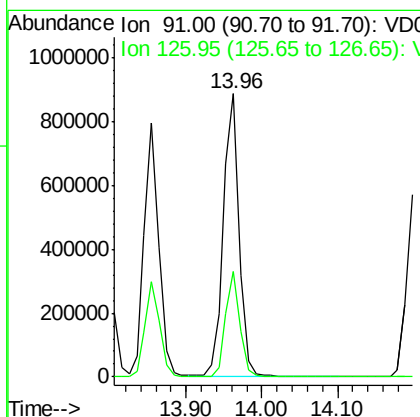
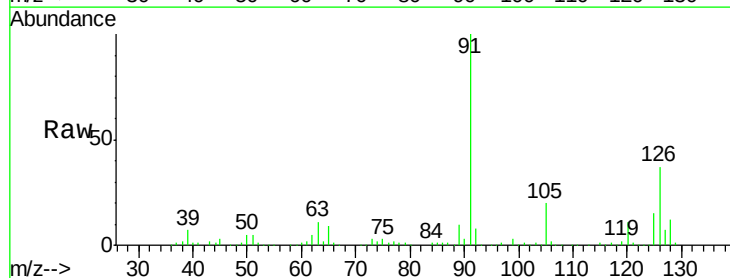
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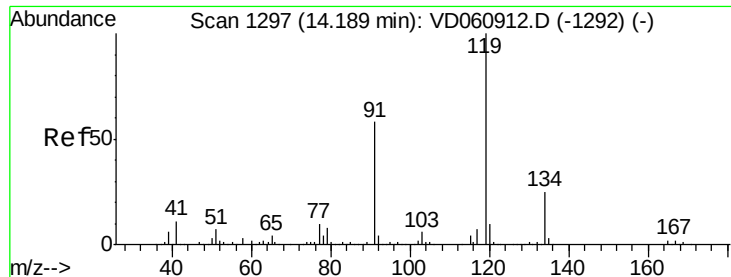
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#82
4-Chlorotoluene
Concen: 50.248 ug/l
RT: 13.96 min Scan# 1274
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.4	18.4	55.2





#83

tert-Butylbenzene

Concen: 51.994 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.01 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1609766

Ion Ratio Lower Upper

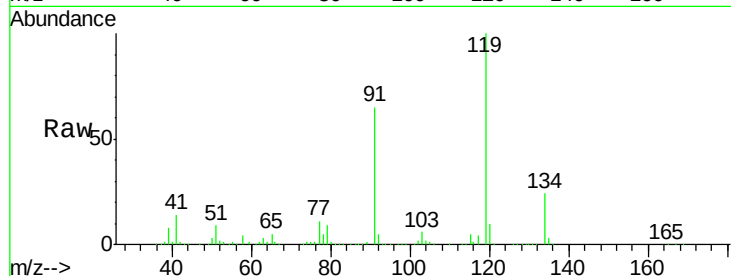
119 100

91 65.0 28.8 86.5

134 24.1 12.6 37.6

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Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

1200000

800000

600000

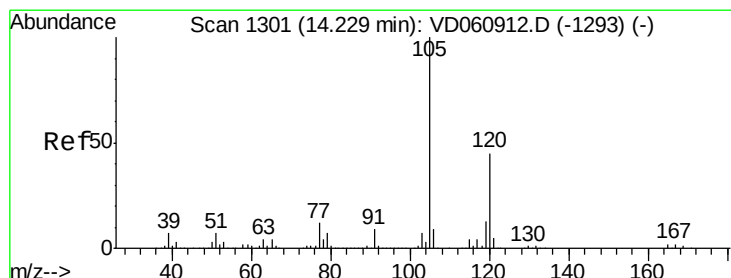
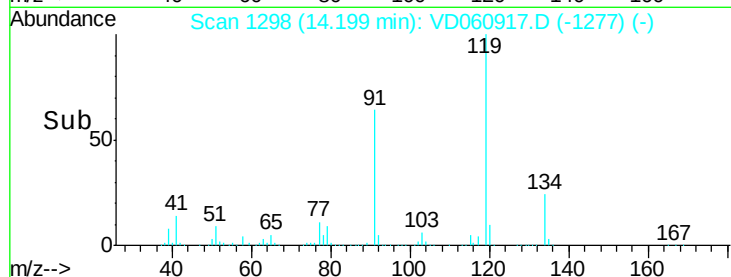
400000

200000

0

14.10 14.20 14.30 14.40

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 48.359 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD060917.D

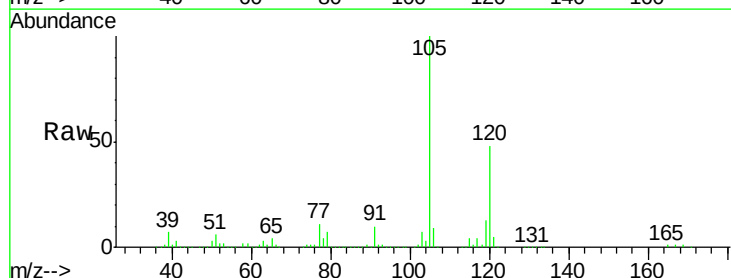
Acq: 4 Mar 2019 11:54

Tgt Ion:105 Resp: 1307666

Ion Ratio Lower Upper

105 100

120 47.9 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

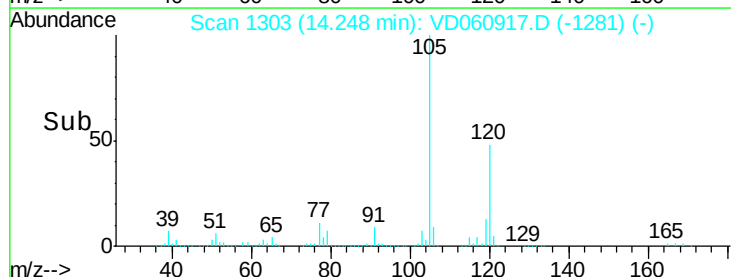
1000000

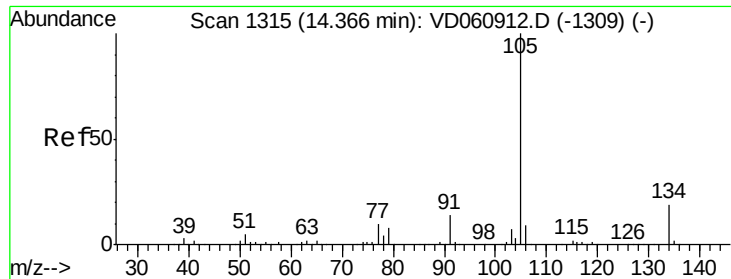
500000

0

14.10 14.20 14.30

Time-->





#85

sec-Butylbenzene

Concen: 49.506 ug/l

RT: 14.38 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1776886

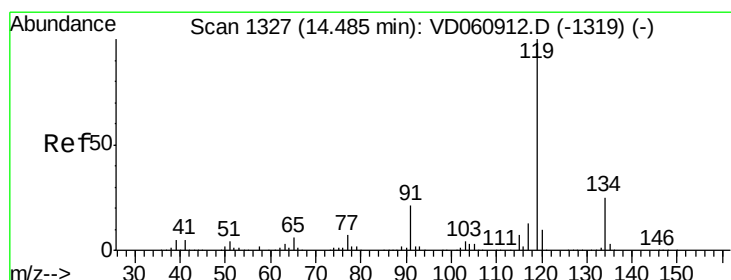
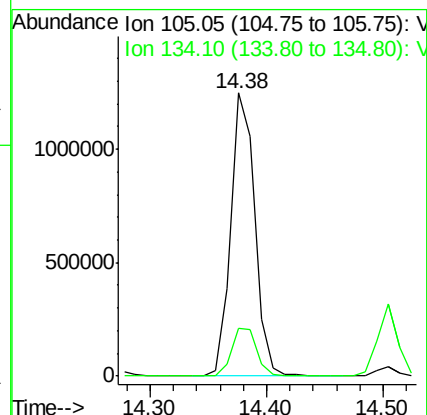
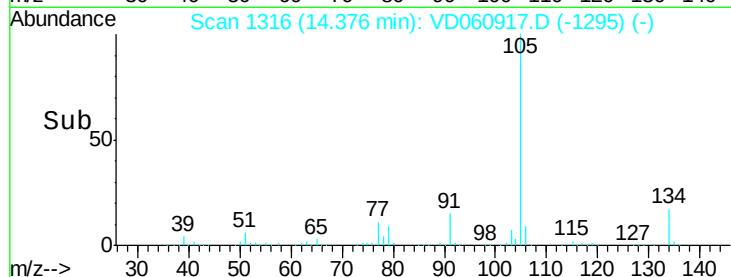
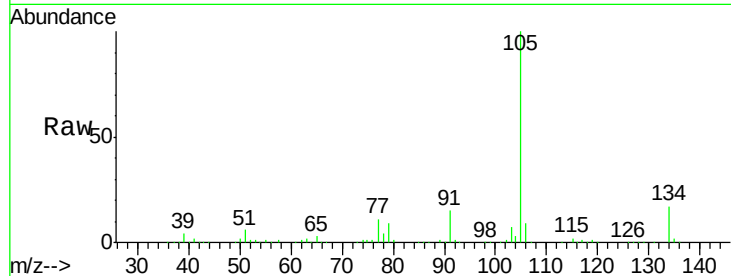
Ion Ratio Lower Upper

105 100

134 17.1 9.7 28.9

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 52.132 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. 0.02 min

Lab File: VD060917.D

Acq: 4 Mar 2019 11:54

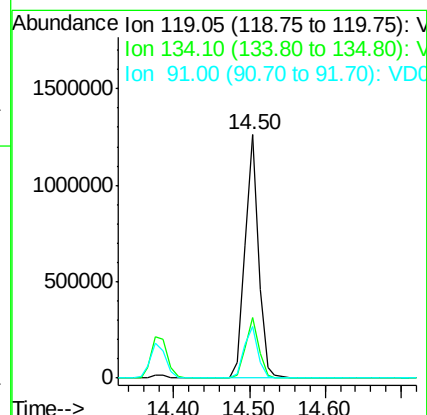
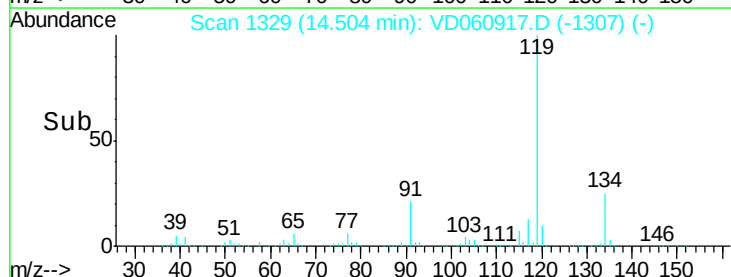
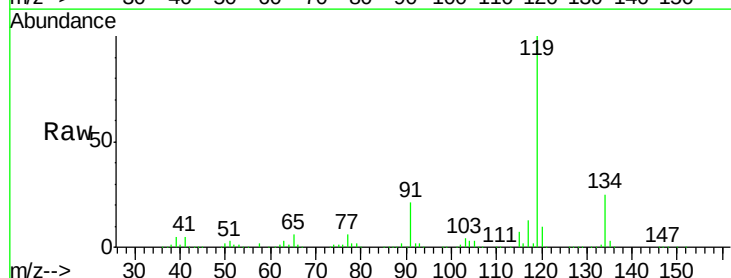
Tgt Ion:119 Resp: 1524071

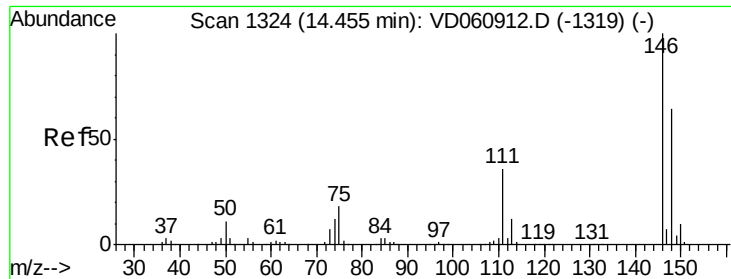
Ion Ratio Lower Upper

119 100

134 25.1 12.4 37.0

91 21.2 10.8 32.3





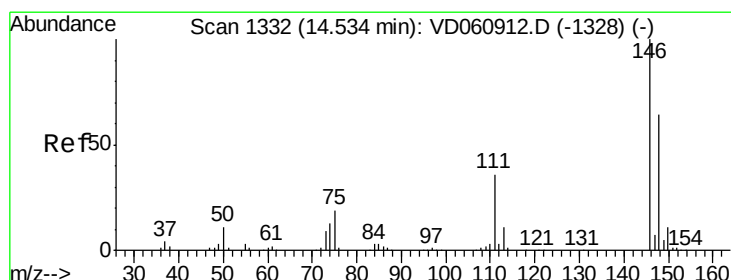
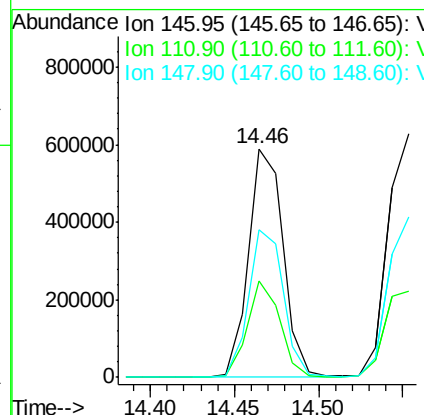
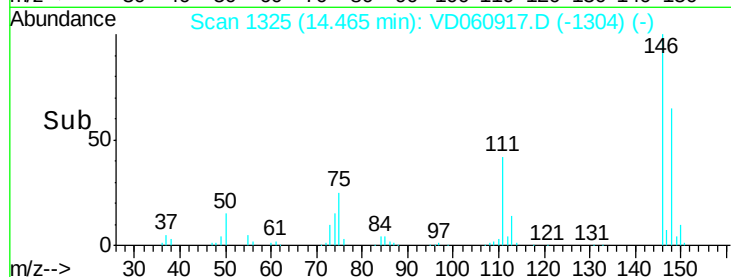
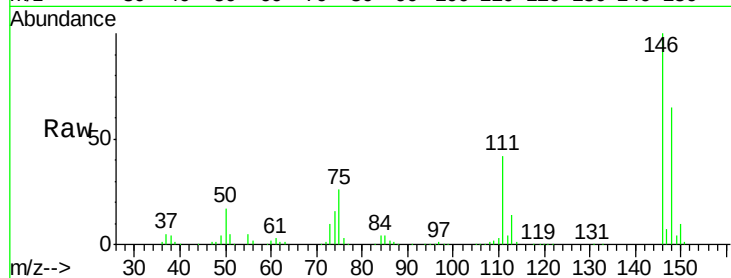
#87
 1,3-Dichlorobenzene
 Concen: 53.341 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	18.1	54.1
148	64.8	32.1	96.3

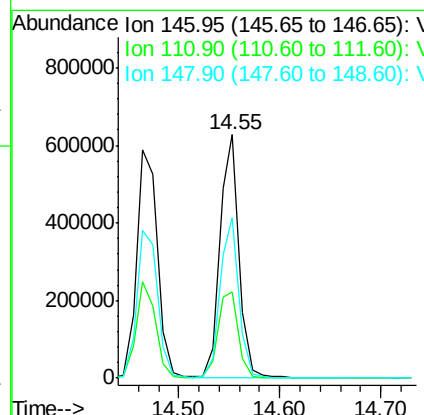
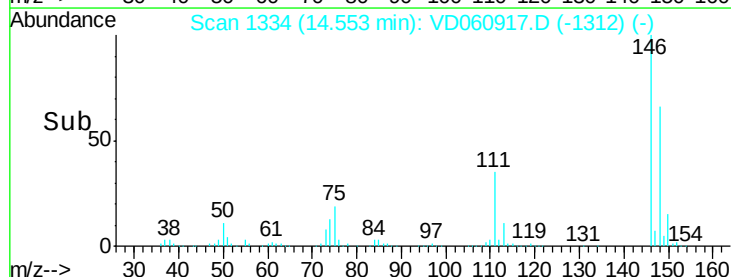
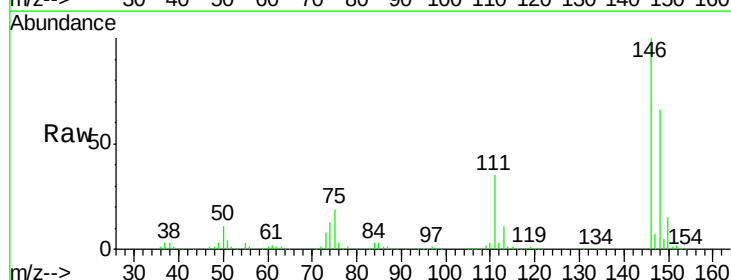
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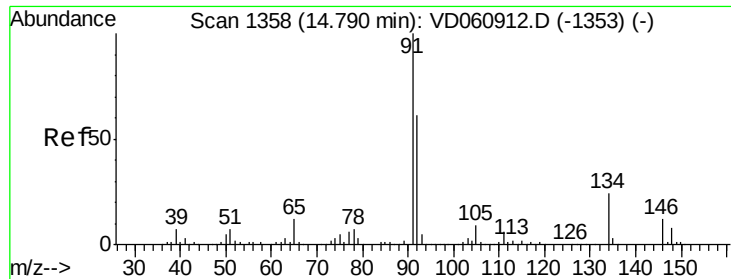
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#88
 1,4-Dichlorobenzene
 Concen: 52.642 ug/l
 RT: 14.55 min Scan# 1334
 Delta R.T. 0.02 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.3	17.9	53.8
148	65.7	32.0	96.0





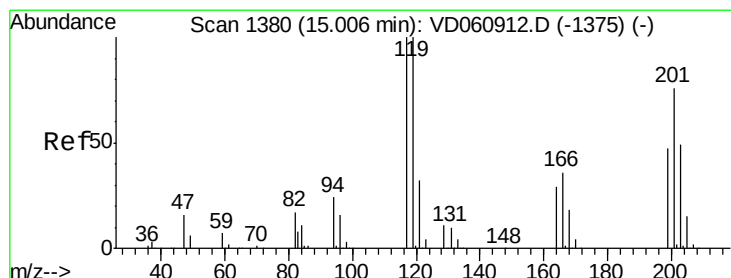
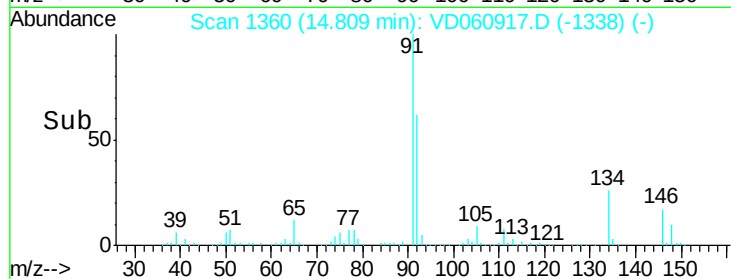
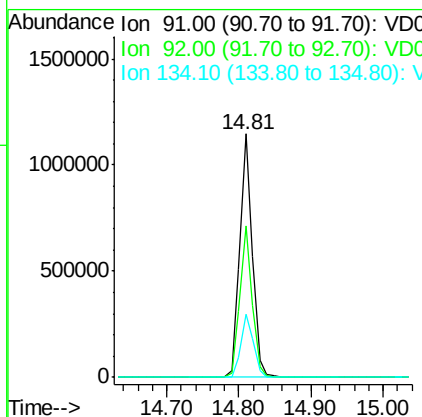
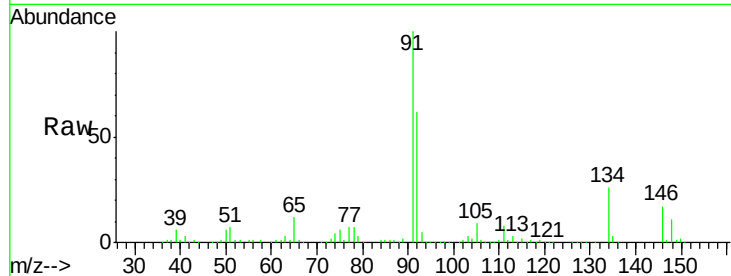
#89
n-Butylbenzene
Concen: 56.363 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1398080
Ion Ratio Lower Upper
91 100
92 62.0 30.6 91.6
134 26.0 12.0 36.0

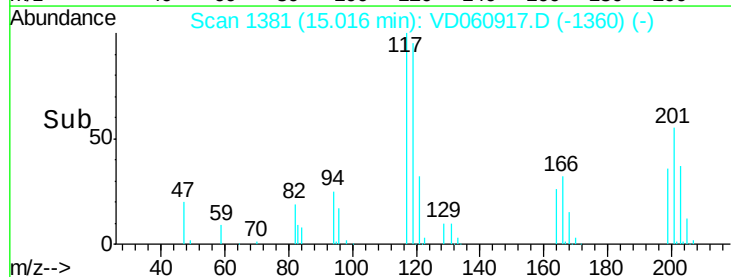
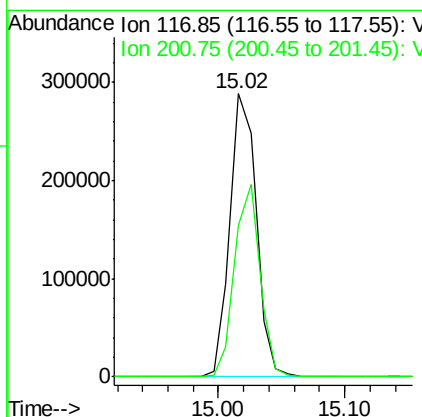
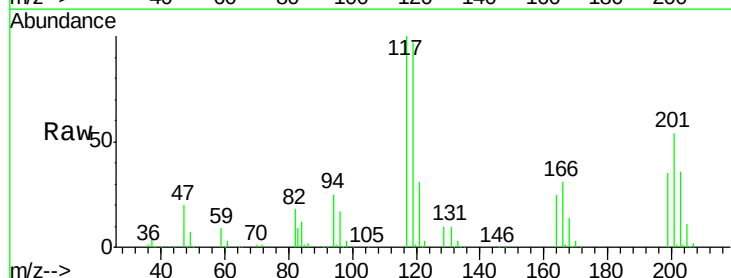
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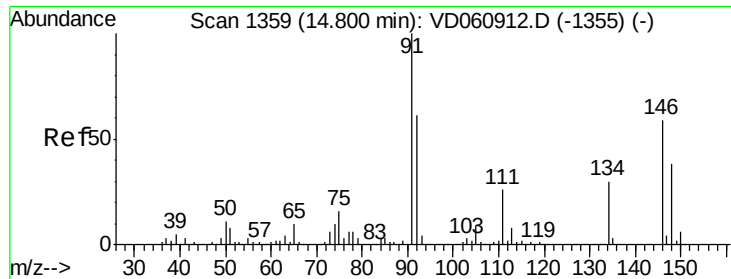
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#90
Hexachloroethane
Concen: 49.572 ug/l
RT: 15.02 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion: 117 Resp: 417952
Ion Ratio Lower Upper
117 100
201 53.5 37.8 113.4





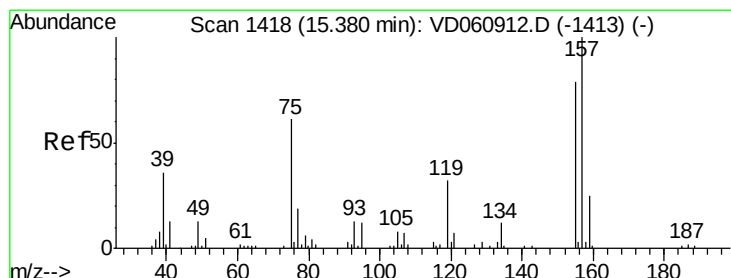
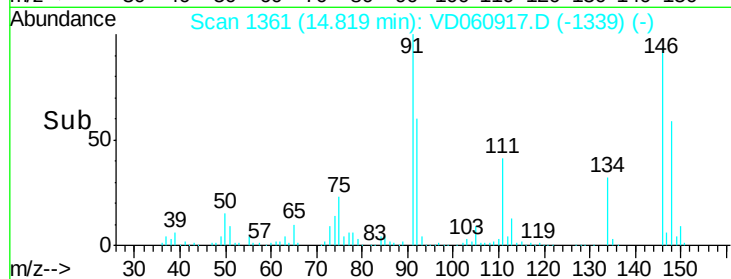
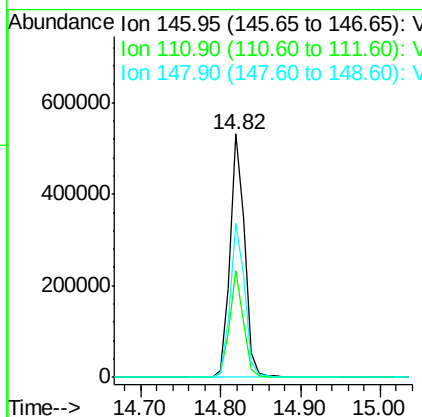
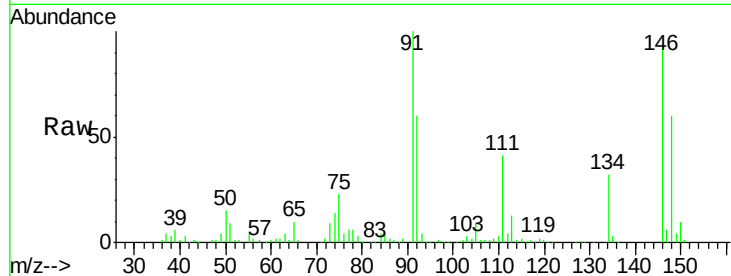
#91
 1,2-Dichlorobenzene
 Concen: 50.036 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.1	66.3
148	63.4	32.1	96.5

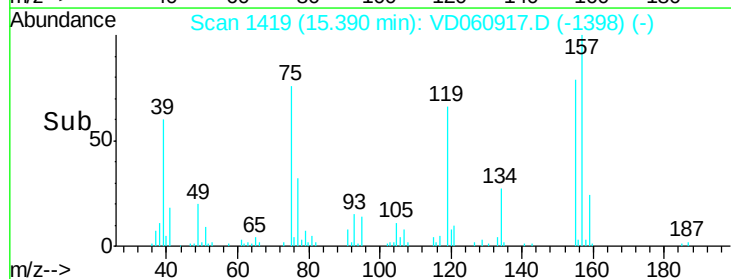
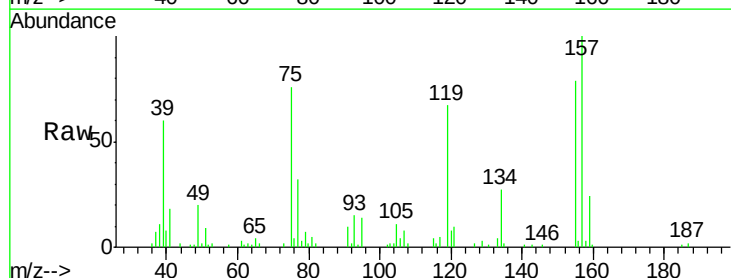
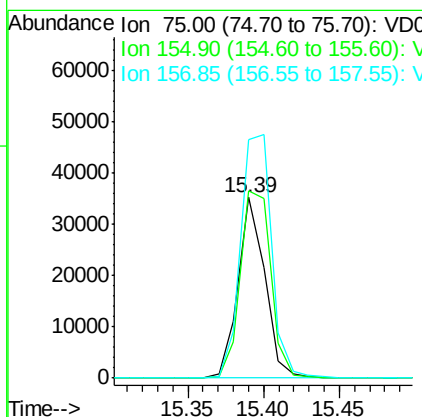
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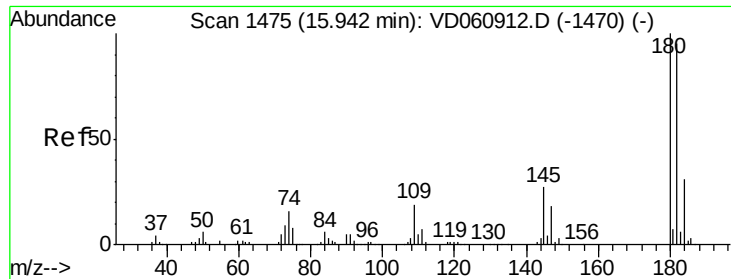
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.814 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.6	65.0	195.0
157	131.8	81.8	245.3





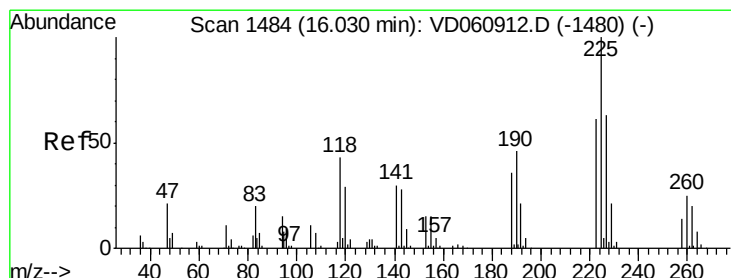
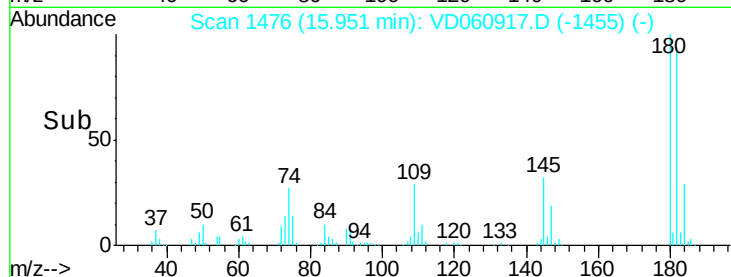
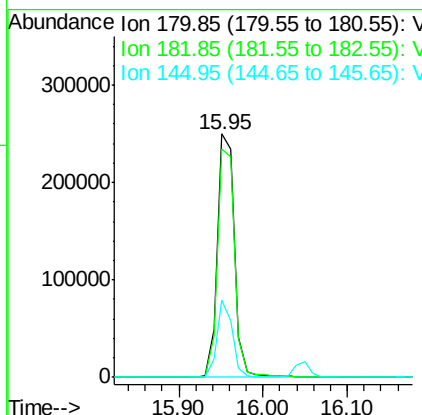
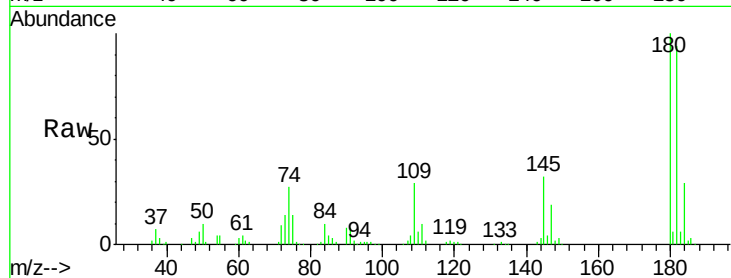
#93
 1,2,4-Trichlorobenzene
 Concen: 44.194 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.5	142.6
145	31.8	13.5	40.5

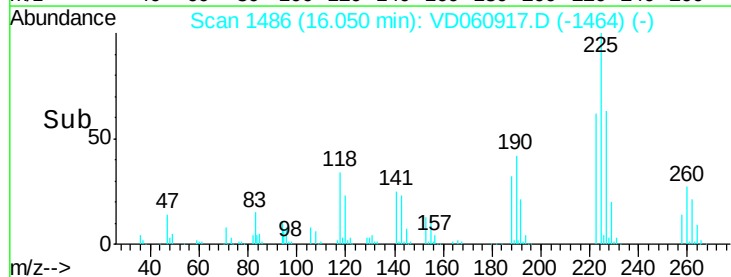
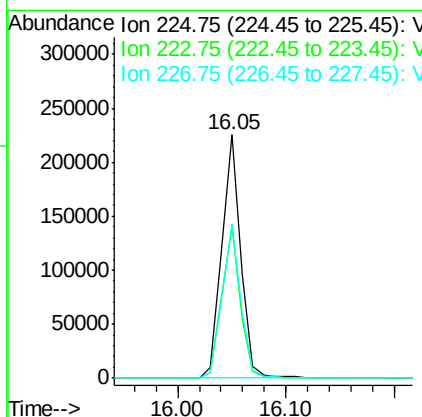
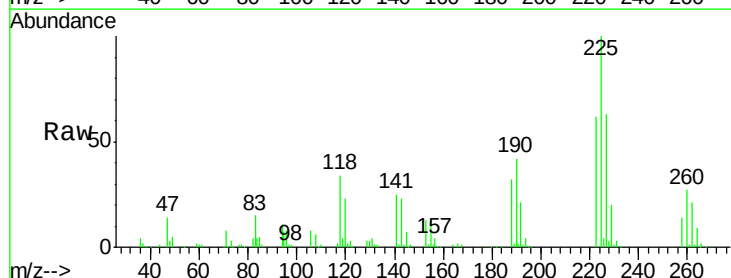
Manual Integrations
 APPROVED

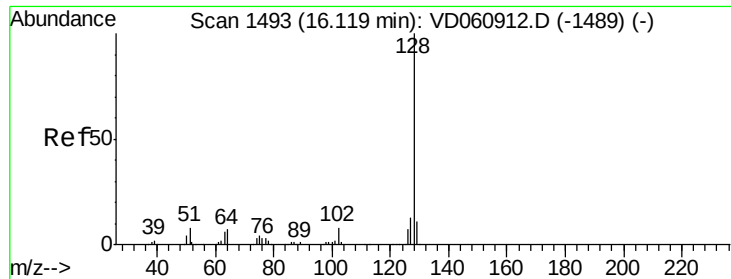
MMDadoda
 3/5/2019 10:49:08 AM



#94
 Hexachlorobutadiene
 Concen: 53.159 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. 0.02 min
 Lab File: VD060917.D
 Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.4	91.3
227	63.2	31.4	94.2





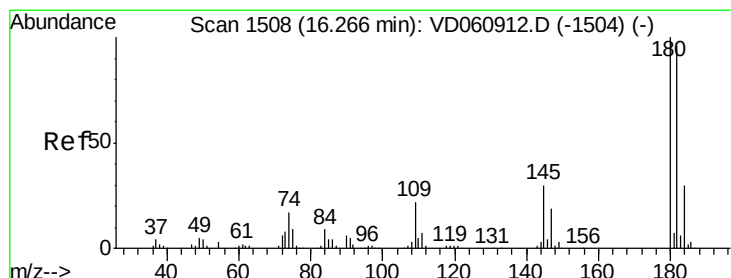
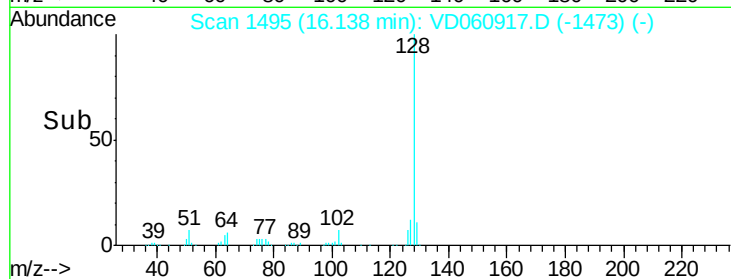
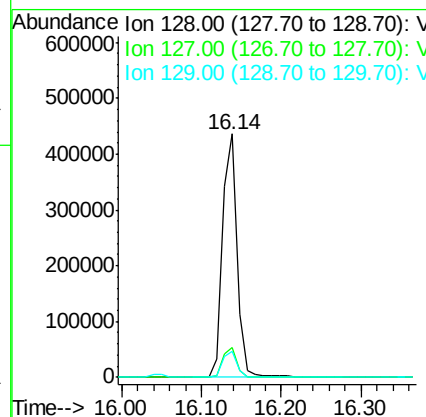
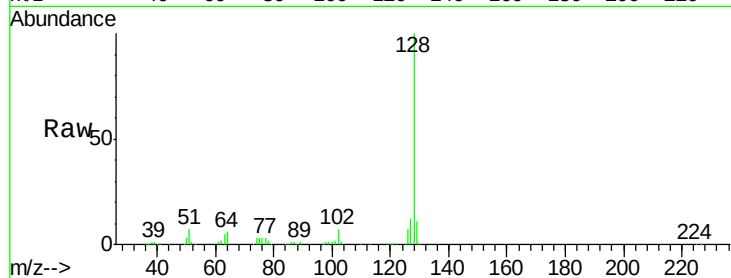
#95
Naphthalene
Concen: 45.766 ug/l
RT: 16.14 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.1	15.1
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:49:08 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.799 ug/l
RT: 16.29 min Scan# 1510
Delta R.T. 0.02 min
Lab File: VD060917.D
Acq: 4 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.1	144.4
145	27.4	14.8	44.4

