

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122118\
 Data File : VD060678.D
 Acq On : 21 Dec 2018 12:34
 Operator : VA/AP
 Sample : VD1221SBS01
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 10:57:43 AM

Quant Time: Dec 21 13:59:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	1315350	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.48	114	1805044	50.00	ug/l	0.04
63) Chlorobenzene-d5	11.31	117	1455286	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.40	152	760558	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.82	65	507547	55.84	ug/l	0.03
Spiked Amount	50.000		Recovery	=	111.68%	
35) Dibromofluoromethane	6.36	113	723144	54.74	ug/l	0.03
Spiked Amount	50.000		Recovery	=	109.48%	
50) Toluene-d8	9.49	98	2129097	54.01	ug/l	0.03
Spiked Amount	50.000		Recovery	=	108.02%	
62) 4-Bromofluorobenzene	12.45	95	741767	53.73	ug/l	0.03
Spiked Amount	50.000		Recovery	=	107.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.61	85	315534	18.774	ug/l	100
3) Chloromethane	1.77	50	294375	19.032	ug/l	97
4) Vinyl Chloride	1.87	62	228479	18.605	ug/l	99
5) Bromomethane	2.17	94	34881	12.680	ug/l	93
6) Chloroethane	2.28	64	65327	17.825	ug/l	95
7) Trichlorofluoromethane	2.53	101	266596	19.518	ug/l	96
8) Diethyl Ether	2.86	74	49713	21.754	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.12	101	177467	20.030	ug/l	98
10) Methyl Iodide	3.28	142	175231	18.818	ug/l	100
11) Tert butyl alcohol	4.02	59	33043	86.980	ug/l	96
12) 1,1-Dichloroethene	3.10	96	147452	20.254	ug/l	94
13) Acrolein	3.01	56	40436	104.452	ug/l	96
14) Allyl chloride	3.56	41	260908	19.531	ug/l	98
15) Acrylonitrile	4.13	53	229684	104.141	ug/l	99
16) Acetone	3.19	43	158068	99.574	ug/l	100
17) Carbon Disulfide	3.35	76	433531	18.646	ug/l	100
18) Methyl Acetate	3.58	43	75984	19.314	ug/l	95
19) Methyl tert-butyl Ether	4.16	73	384379	20.811	ug/l	97
20) Methylene Chloride	3.75	84	333233	20.213	ug/l	99
21) trans-1,2-Dichloroethene	4.14	96	289077	19.389	ug/l	96
22) Diisopropyl ether	4.89	45	954058	21.035	ug/l	98
23) Vinyl Acetate	4.83	43	2326428	106.019	ug/l	99
24) 1,1-Dichloroethane	4.79	63	482318	20.217	ug/l	99
25) 2-Butanone	5.66	43	318121	104.725	ug/l	100
26) 2,2-Dichloropropane	5.62	77	379111	20.132	ug/l	95
27) cis-1,2-Dichloroethene	5.63	96	308125	20.359	ug/l	97
28) Bromochloromethane	5.96	49	191718	19.022	ug/l	95
29) Tetrahydrofuran	5.99	42	185393	107.658	ug/l	98
30) Chloroform	6.13	83	491860	20.489	ug/l	99
31) Cyclohexane	6.40	56	453865	19.769	ug/l	96
32) 1,1,1-Trichloroethane	6.33	97	393347	19.805	ug/l	97
36) 1,1-Dichloropropene	6.56	75	386989	20.820	ug/l	98
37) Ethyl Acetate	5.73	43	168137	21.629	ug/l	96
38) Carbon Tetrachloride	6.54	117	336574	20.526	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.07	83	426386	20.114	ug/l	99
40) Benzene	6.83	78	982690	20.468	ug/l	99
41) Methacrylonitrile	5.96	41	79041m	18.382	ug/l	
42) 1,2-Dichloroethane	6.93	62	249071	20.905	ug/l	99
43) Isopropyl Acetate	8.38	43	196537	19.702	ug/l #	96
44) Trichloroethene	7.78	130	286975	20.195	ug/l	100
45) 1,2-Dichloropropane	8.14	63	236896	20.120	ug/l	98
46) Dibromomethane	8.25	93	134738	20.050	ug/l	96
47) Bromodichloromethane	8.52	83	324580	20.393	ug/l	97
48) Methyl methacrylate	8.28	41	124669	20.576	ug/l	97
49) 1,4-Dioxane	8.26	88	20922	371.387	ug/l	91
51) 4-Methyl-2-Pentanone	9.37	43	648930	106.176	ug/l	97
52) Toluene	9.58	92	614187	20.406	ug/l	99
53) t-1,3-Dichloropropene	9.95	75	263557	19.848	ug/l	98
54) cis-1,3-Dichloropropene	9.13	75	354007	20.368	ug/l	96
55) 1,1,2-Trichloroethane	10.21	97	165856	20.481	ug/l	98
56) Ethyl methacrylate	10.06	69	152758	20.309	ug/l	96
57) 1,3-Dichloropropane	10.41	76	261314	20.358	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.96	63	470698	106.204	ug/l	97
59) 2-Hexanone	10.51	43	451657	105.576	ug/l	99
60) Dibromochloromethane	10.67	129	211623	20.516	ug/l	100
61) 1,2-Dibromoethane	10.79	107	170953	20.352	ug/l	96
64) Tetrachloroethene	10.29	164	271441	20.579	ug/l	98
65) Chlorobenzene	11.34	112	662287	20.598	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.44	131	222558	21.528	ug/l	95
67) Ethyl Benzene	11.45	91	1148661	20.860	ug/l	96
68) m/p-Xylenes	11.58	106	834694	41.479	ug/l	94
69) o-Xylene	11.96	106	395436	20.712	ug/l	91
70) Styrene	11.98	104	648438	21.088	ug/l	98
71) Bromoform	12.14	173	138964	20.364	ug/l	96
73) Isopropylbenzene	12.29	105	1106302	20.430	ug/l	99
74) N-amyl acetate	12.16	43	260166	20.357	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	185040	21.082	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	182815	21.113	ug/l	99
77) Bromobenzene	12.56	156	301747	21.106	ug/l	97
78) n-propylbenzene	12.66	91	1468589	21.214	ug/l	97
79) 2-Chlorotoluene	12.73	91	750850	20.250	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	882675	21.109	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.36	75	46857	19.584	ug/l	95
82) 4-Chlorotoluene	12.83	91	880627	20.954	ug/l	88
83) tert-Butylbenzene	13.07	119	998495	20.982	ug/l	99
84) 1,2,4-Trimethylbenzene	13.11	105	887777	20.614	ug/l	99
85) sec-Butylbenzene	13.24	105	1184564	20.411	ug/l	99
86) p-Isopropyltoluene	13.36	119	979387	20.906	ug/l	97
87) 1,3-Dichlorobenzene	13.33	146	553980	21.108	ug/l	95
88) 1,4-Dichlorobenzene	13.42	146	533467	20.628	ug/l	97
89) n-Butylbenzene	13.66	91	1030961	21.536	ug/l	97
90) Hexachloroethane	13.88	117	235401	20.454	ug/l	96
91) 1,2-Dichlorobenzene	13.68	146	464981	22.087	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.24	75	20778	20.150	ug/l	96

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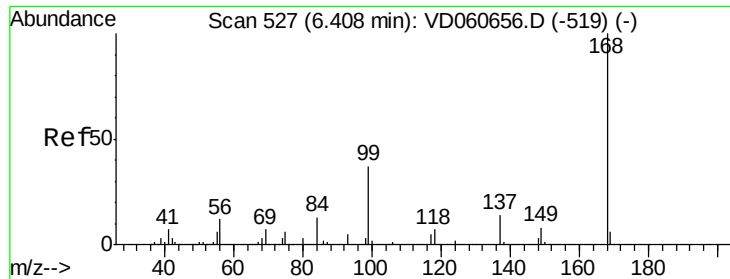
Manual Integrations
APPROVED

MMDadoda
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	356317	21.270	ug/l	96
94) Hexachlorobutadiene	14.90	225	257865	20.825	ug/l	97
95) Naphthalene	14.99	128	413568	20.772	ug/l	99
96) 1,2,3-Trichlorobenzene	15.14	180	269412	20.573	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.44 min Scan# 530

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion:168 Resp: 1315350

Ion Ratio Lower Upper

168 100

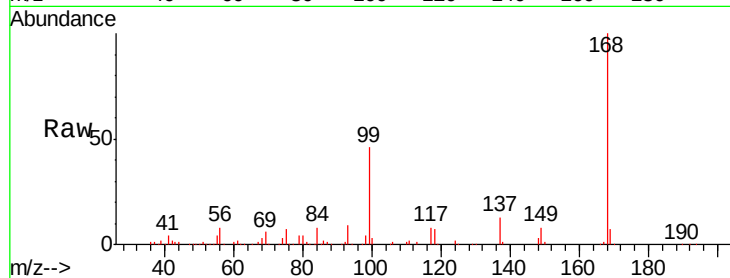
99 46.4 38.7 58.1

Manual Integrations

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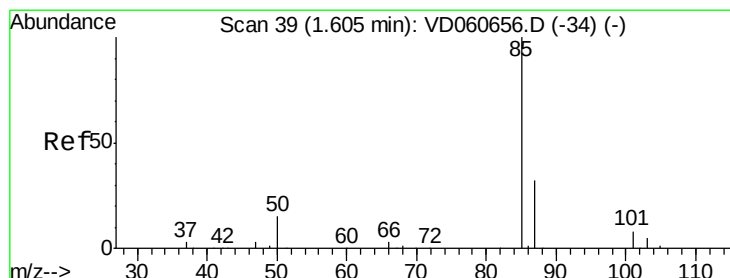
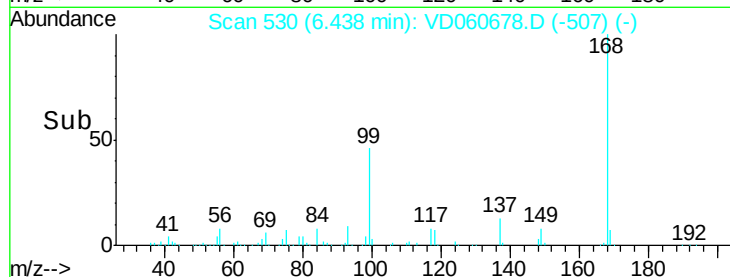
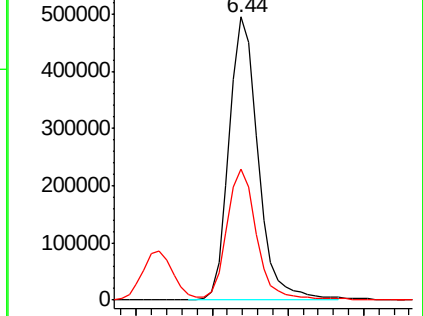
MMDadoda

12/26/2018 10:57:43 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 18.774 ug/l

RT: 1.61 min Scan# 39

Delta R.T. 0.00 min

Lab File: VD060678.D

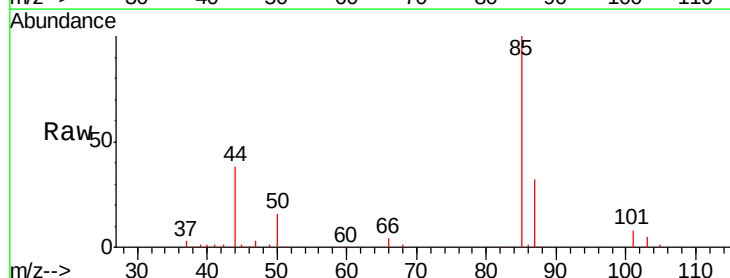
Acq: 21 Dec 2018 12:34

Tgt Ion: 85 Resp: 315534

Ion Ratio Lower Upper

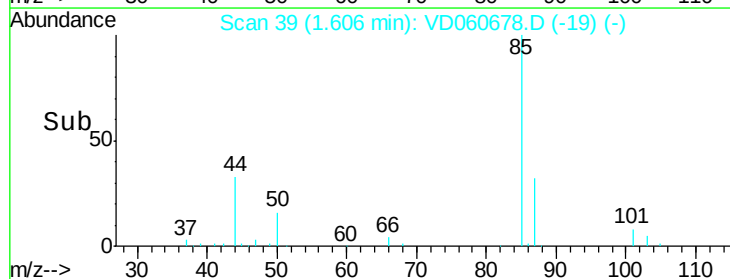
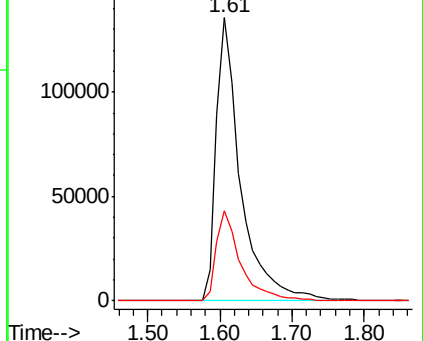
85 100

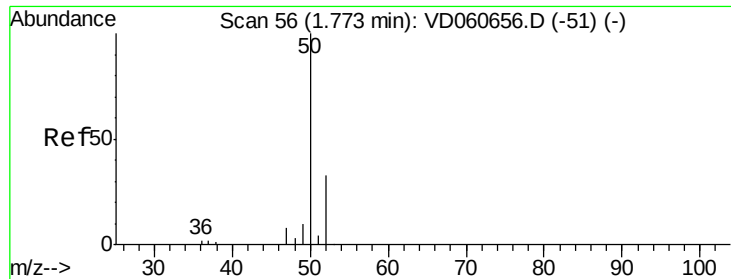
87 32.1 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.032 ug/l

RT: 1.77 min Scan# 56

Delta R.T. 0.00 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 50 Resp: 294375

Ion Ratio Lower Upper

50 100

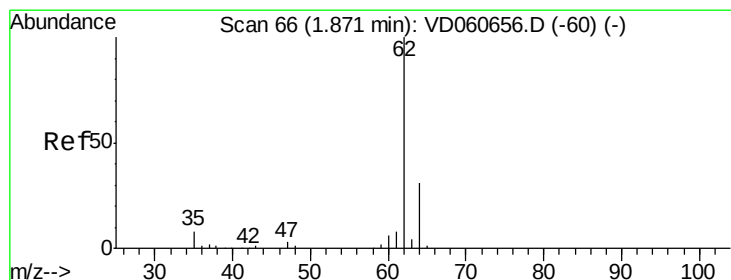
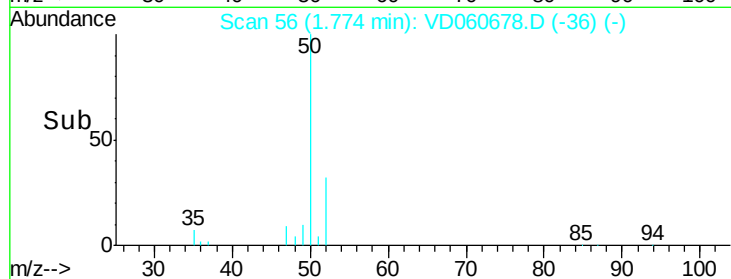
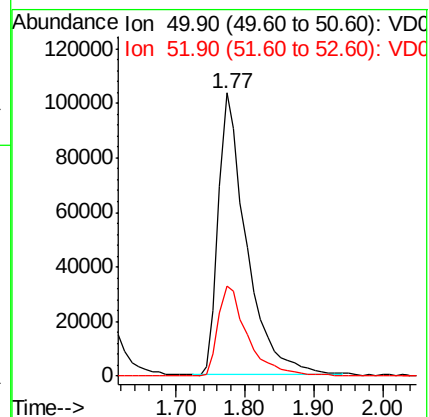
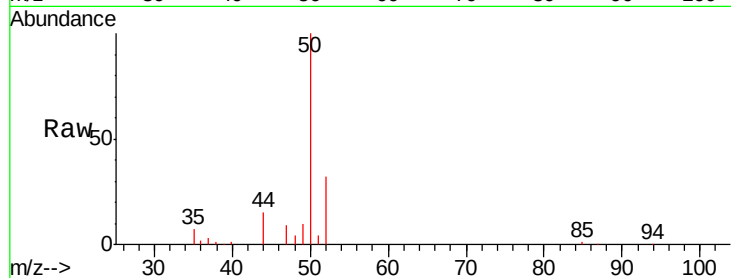
52 31.7 26.6 39.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.605 ug/l

RT: 1.87 min Scan# 66

Delta R.T. 0.00 min

Lab File: VD060678.D

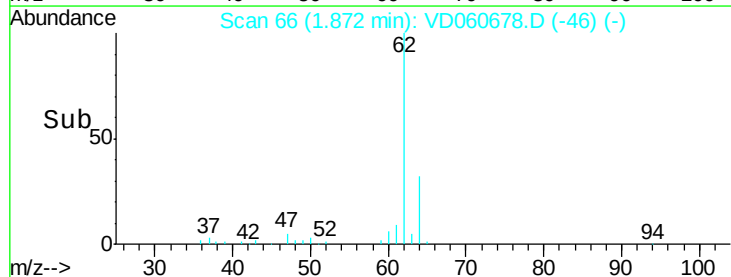
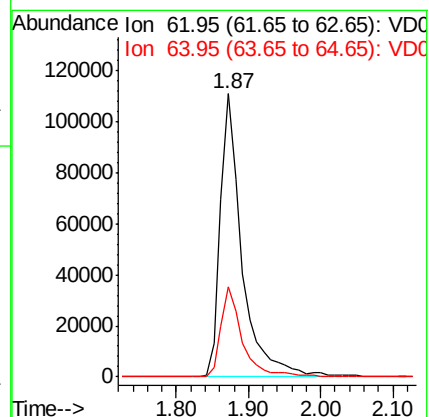
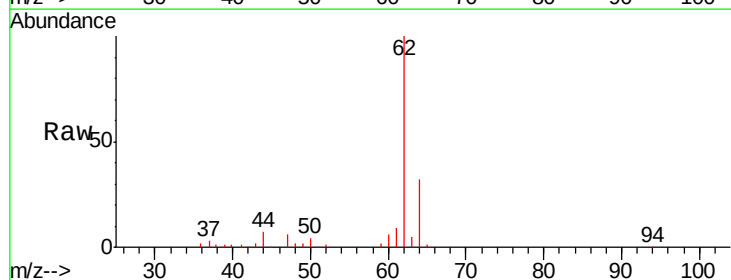
Acq: 21 Dec 2018 12:34

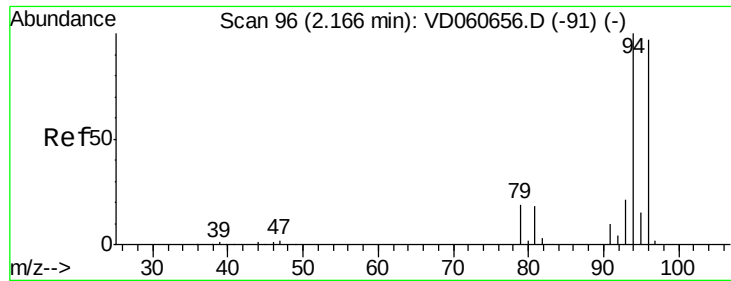
Tgt Ion: 62 Resp: 228479

Ion Ratio Lower Upper

62 100

64 31.6 25.0 37.6





#5

Bromomethane

Concen: 12.680 ug/l

RT: 2.17 min Scan# 96

Delta R.T. 0.00 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 94 Resp: 34881

Ion Ratio Lower Upper

94 100

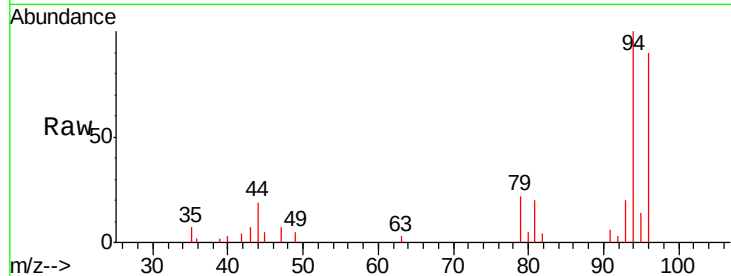
96 89.6 77.2 115.8

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

15000

10000

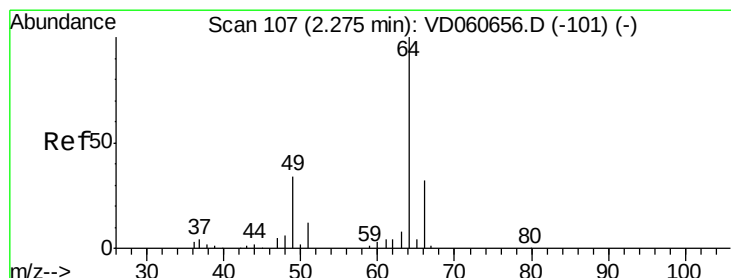
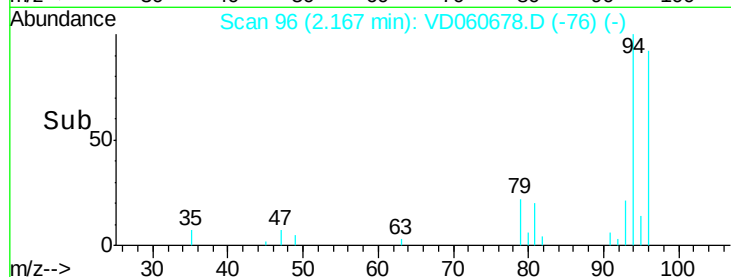
5000

0

2.10 2.20 2.30

2.17

Time-->



#6

Chloroethane

Concen: 17.825 ug/l

RT: 2.28 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD060678.D

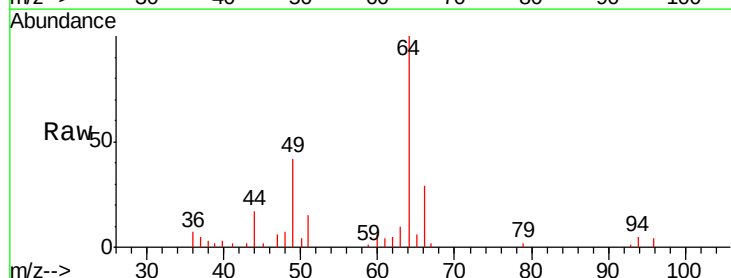
Acq: 21 Dec 2018 12:34

Tgt Ion: 64 Resp: 65327

Ion Ratio Lower Upper

64 100

66 29.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

25000

20000

15000

10000

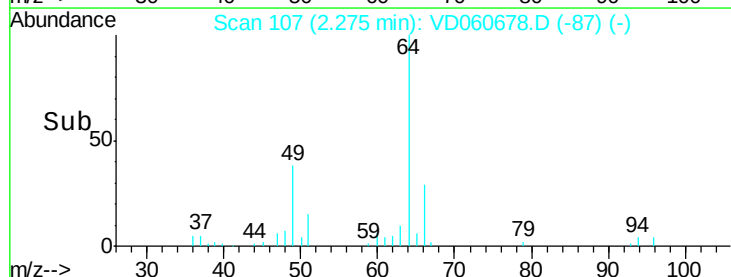
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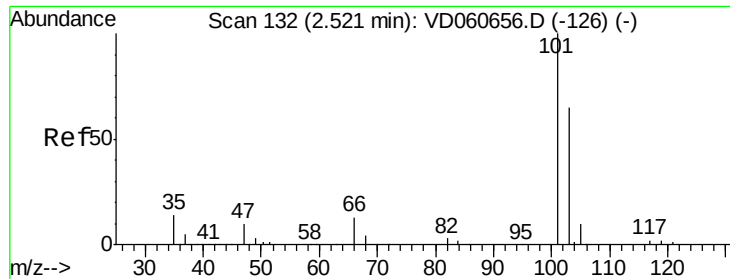
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2.20 2.30 2.40 2.50

2.28

Time-->





#7

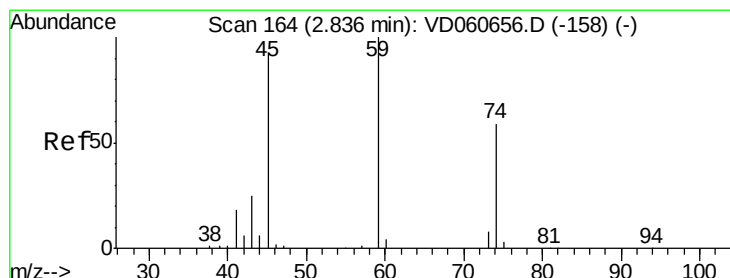
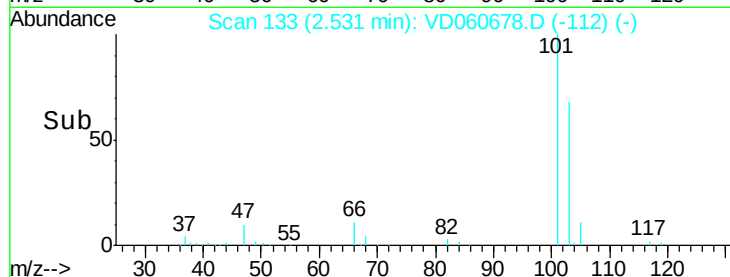
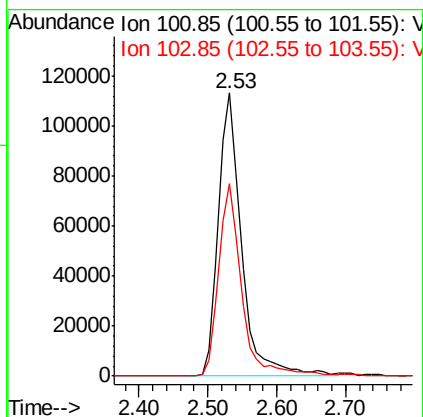
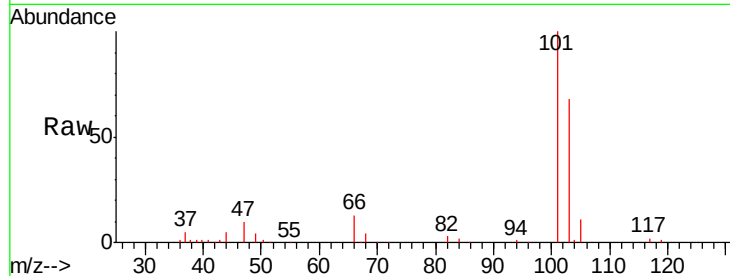
Trichlorofluoromethane
Concen: 19.518 ug/l
RT: 2.53 min Scan# 133
Delta R.T. 0.01 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

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VD1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	266596		
103	67.9	51.9	77.9	

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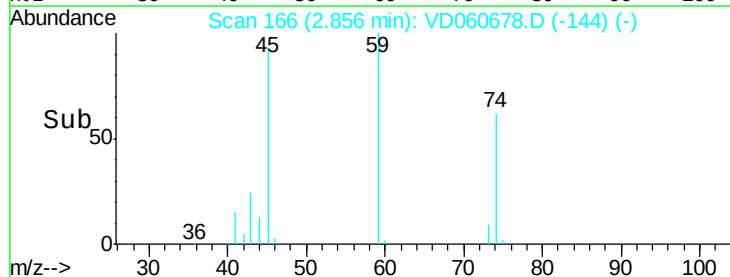
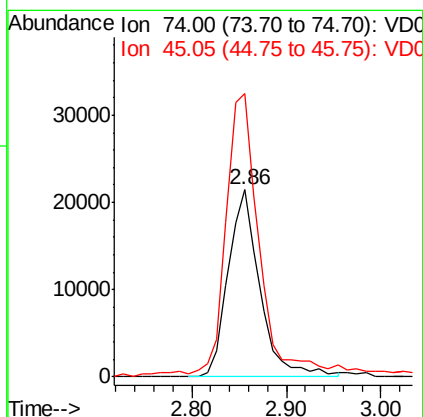
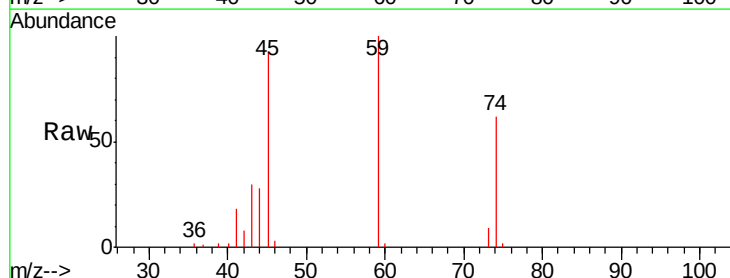
MMDadoda
12/26/2018 10:57:43 AM

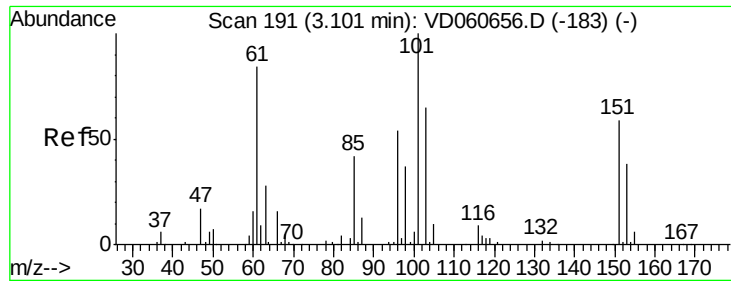


#8

Diethyl Ether
Concen: 21.754 ug/l
RT: 2.86 min Scan# 166
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	49713		
45	151.5	79.3	238.1	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.030 ug/l

RT: 3.12 min Scan# 193

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

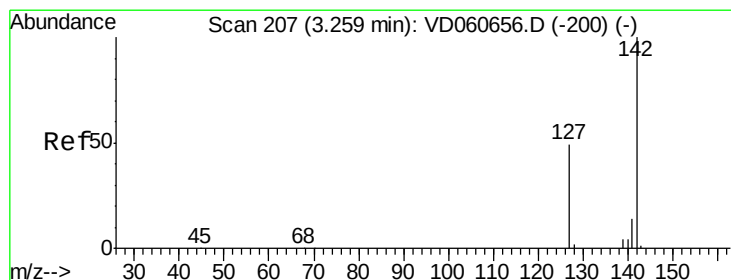
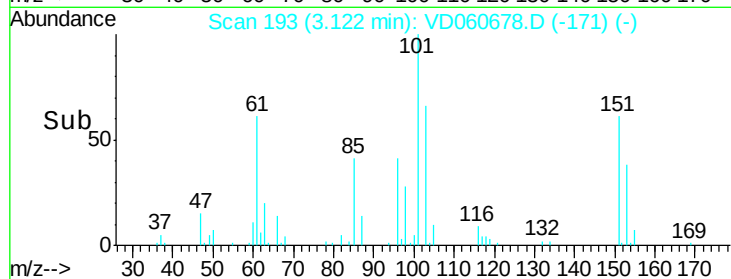
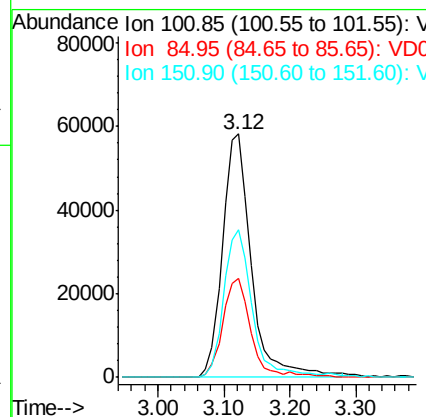
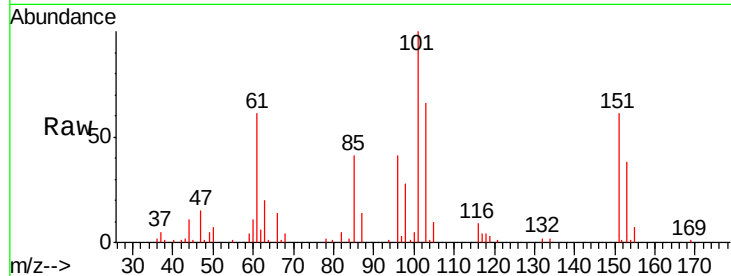
ClientSampleId :

VD1221SBS01

Tgt Ion:	101	Resp:	177467
Ion Ratio	Lower	Upper	
101	100		
85	40.5	33.4	50.0
151	60.8	47.5	71.3

Manual Integrations
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#10

Methyl Iodide

Concen: 18.818 ug/l

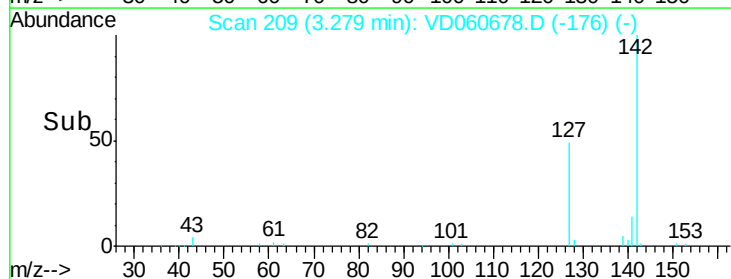
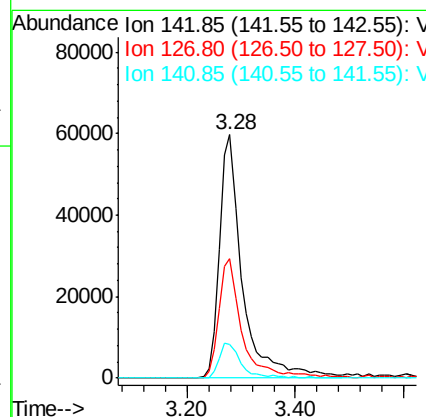
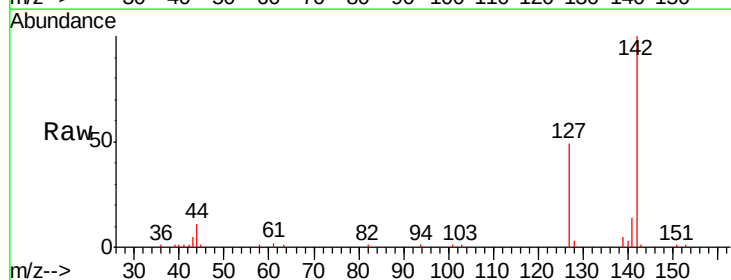
RT: 3.28 min Scan# 209

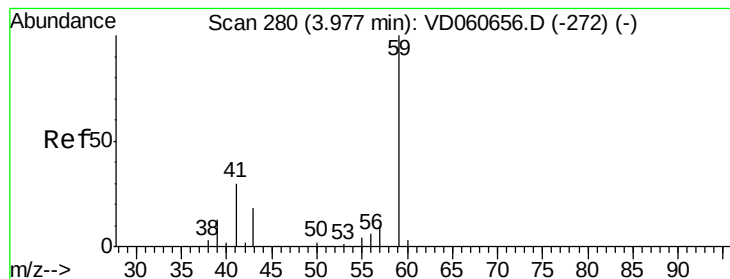
Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion:	142	Resp:	175231
Ion Ratio	Lower	Upper	
142	100		
127	49.1	39.5	59.3
141	14.1	11.3	16.9





#11

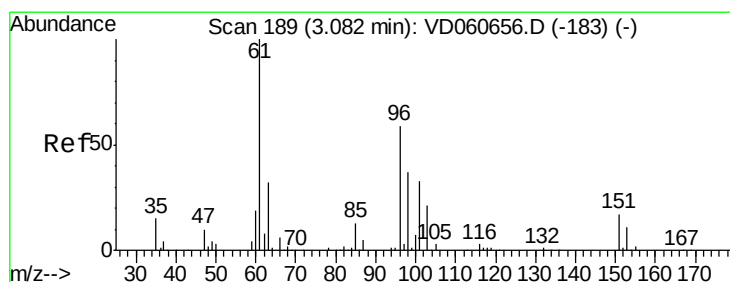
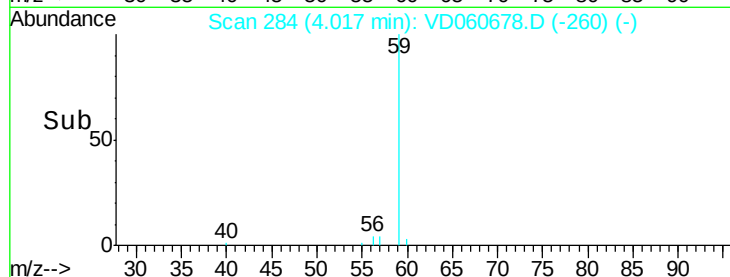
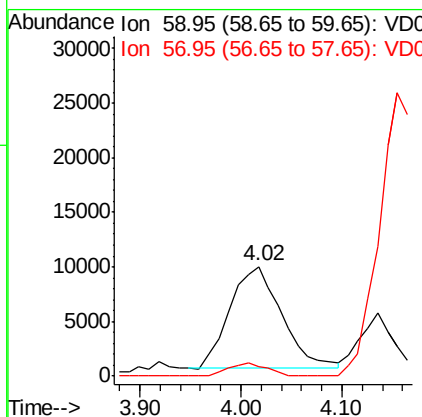
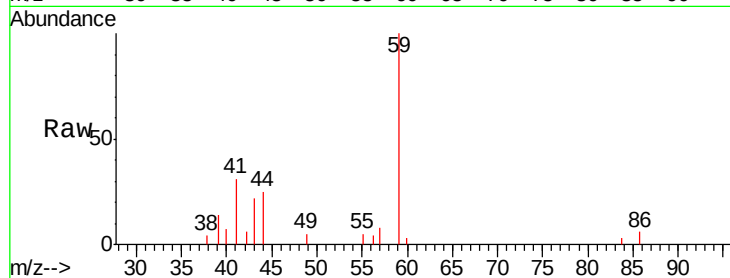
Tert butyl alcohol
 Concen: 86.980 ug/l
 RT: 4.02 min Scan# 284
 Delta R.T. 0.04 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion: 59 Resp: 33043
 Ion Ratio Lower Upper
 59 100
 57 8.2 7.8 11.6

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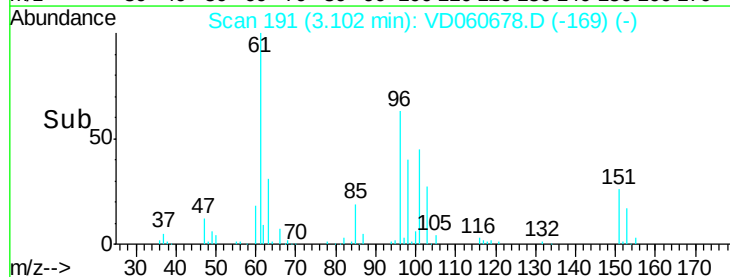
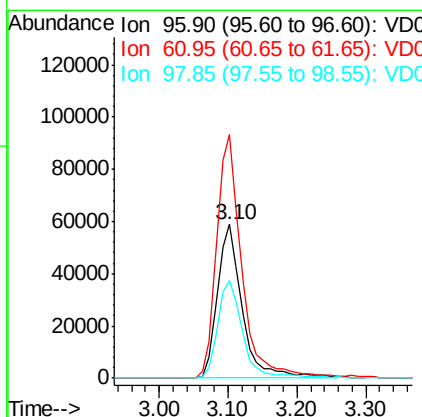
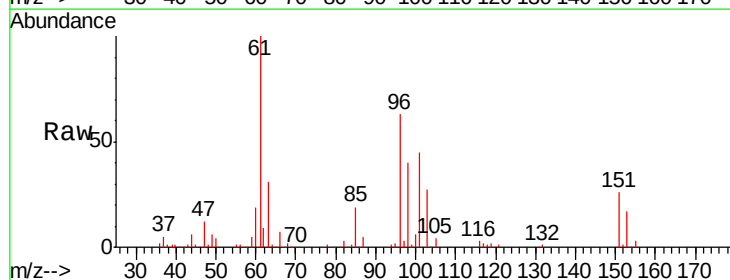
MMDadoda
 12/26/2018 10:57:43 AM

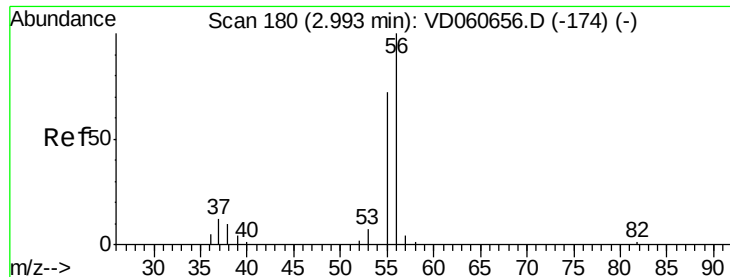


#12

1,1-Dichloroethene
 Concen: 20.254 ug/l
 RT: 3.10 min Scan# 191
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 96 Resp: 147452
 Ion Ratio Lower Upper
 96 100
 61 158.3 136.2 204.4
 98 63.5 50.7 76.1





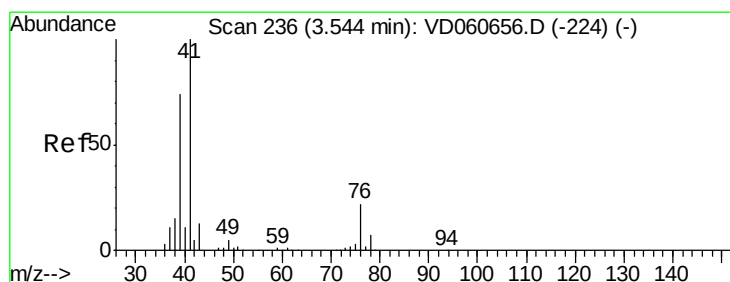
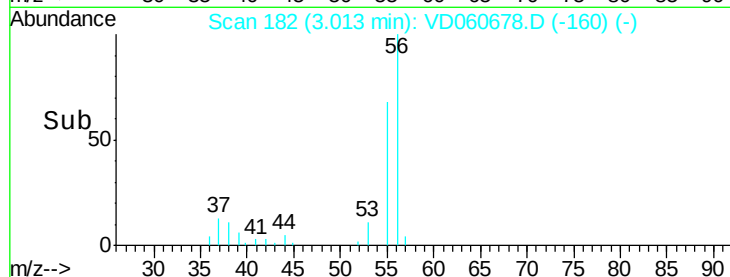
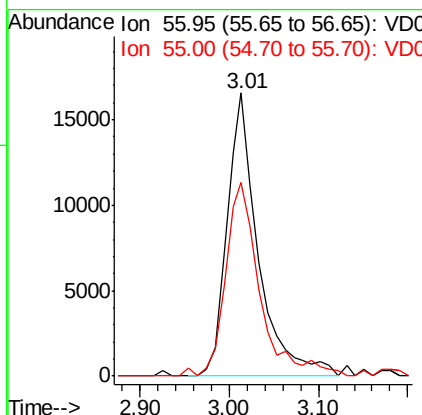
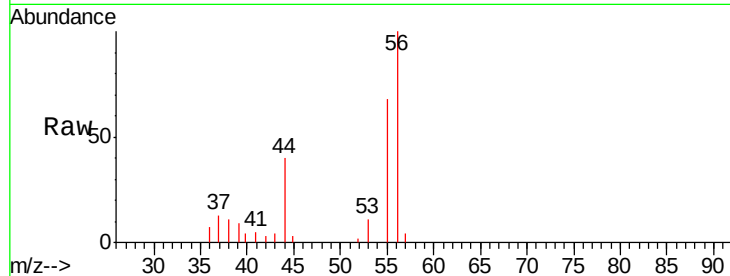
#13
Acrolein
Concen: 104.452 ug/l
RT: 3.01 min Scan# 182
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion: 56 Resp: 40436
Ion Ratio Lower Upper
56 100
55 68.4 57.7 86.5

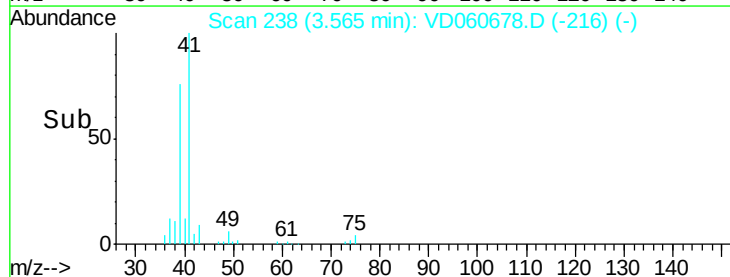
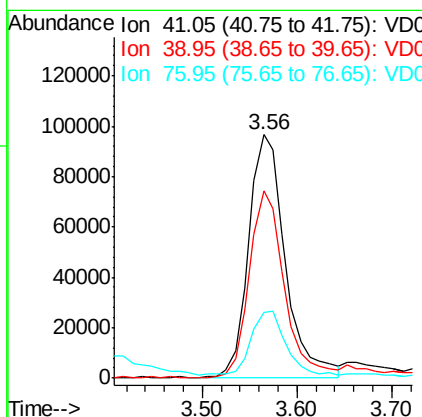
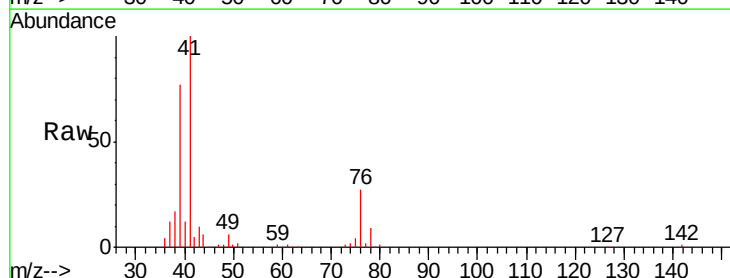
Manual Integrations
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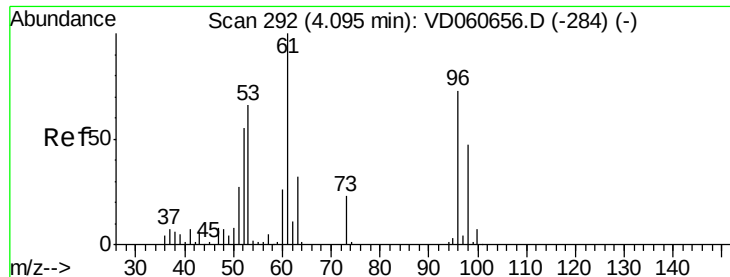
MMDadoda
12/26/2018 10:57:43 AM



#14
Allyl chloride
Concen: 19.531 ug/l
RT: 3.56 min Scan# 238
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 41 Resp: 260908
Ion Ratio Lower Upper
41 100
39 76.7 59.6 89.4
76 27.2 21.8 32.6





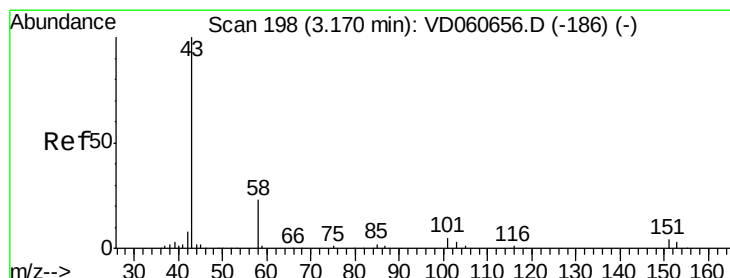
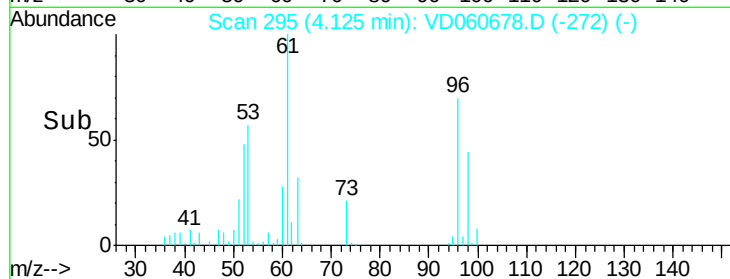
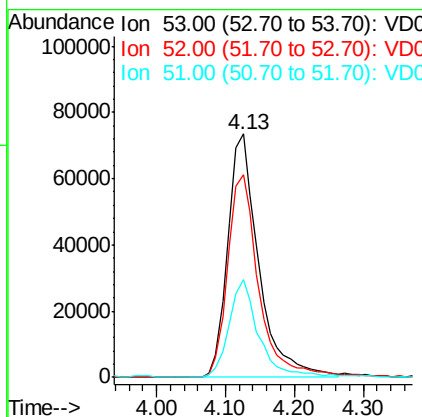
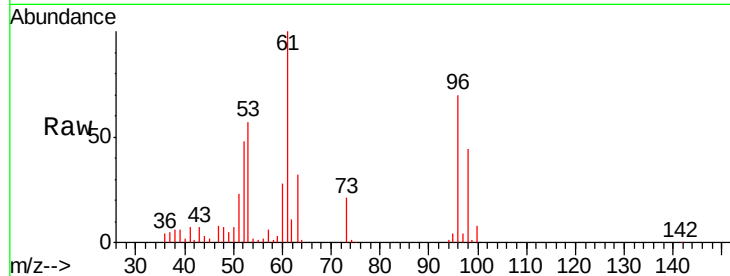
#15
Acrylonitrile
Concen: 104.141 ug/l
RT: 4.13 min Scan# 295
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.7	100.1
51	40.1	32.7	49.1

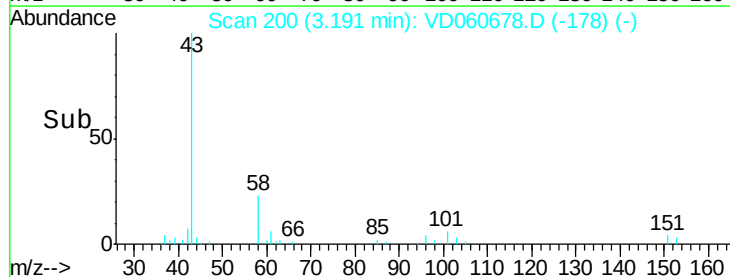
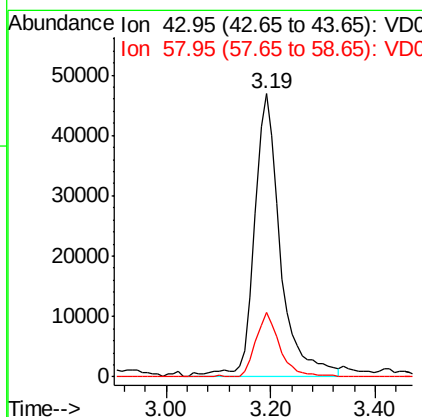
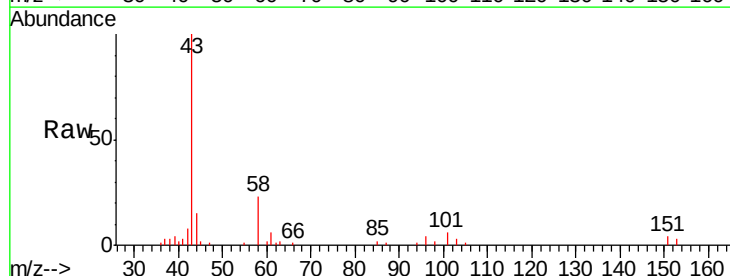
Manual Integrations
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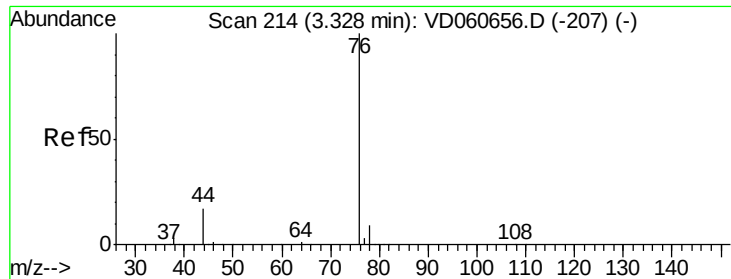
MMDadoda
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#16
Acetone
Concen: 99.574 ug/l
RT: 3.19 min Scan# 200
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.8	18.2	27.2





#17

Carbon Disulfide

Concen: 18.646 ug/l

RT: 3.35 min Scan# 216

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 76 Resp: 433531

Ion Ratio Lower Upper

76 100

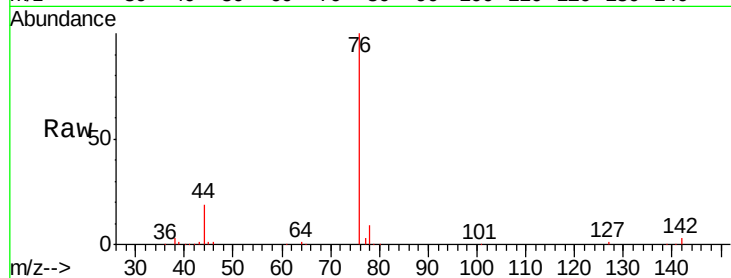
78 9.2 7.4 11.0

Manual Integrations

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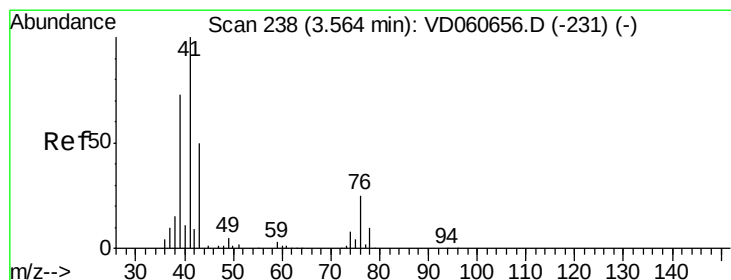
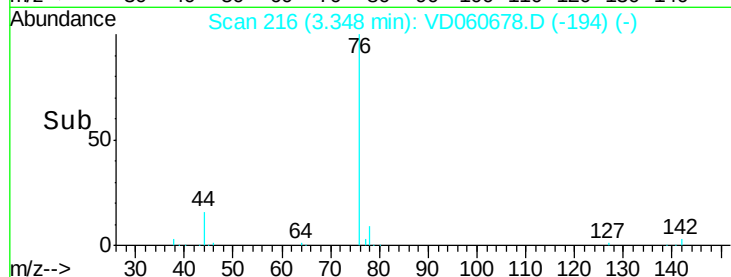
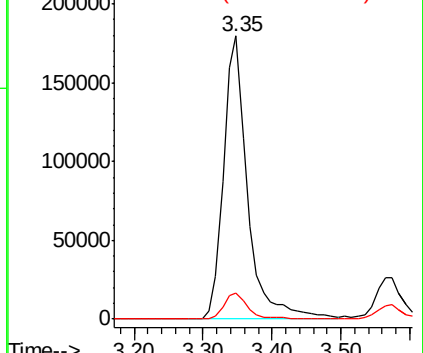
MMDadoda

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 19.314 ug/l

RT: 3.58 min Scan# 240

Delta R.T. 0.02 min

Lab File: VD060678.D

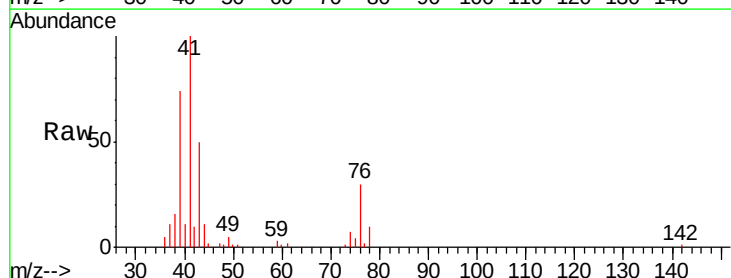
Acq: 21 Dec 2018 12:34

Tgt Ion: 43 Resp: 75984

Ion Ratio Lower Upper

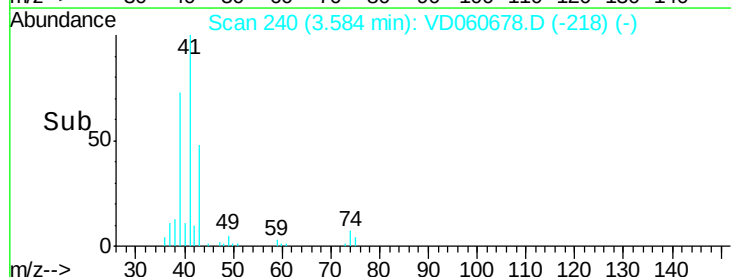
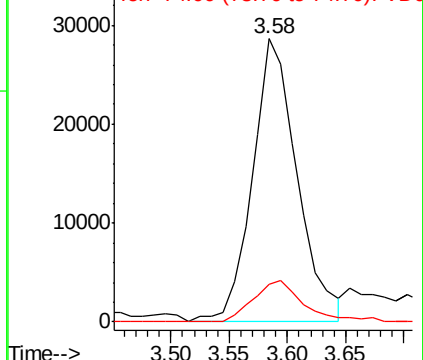
43 100

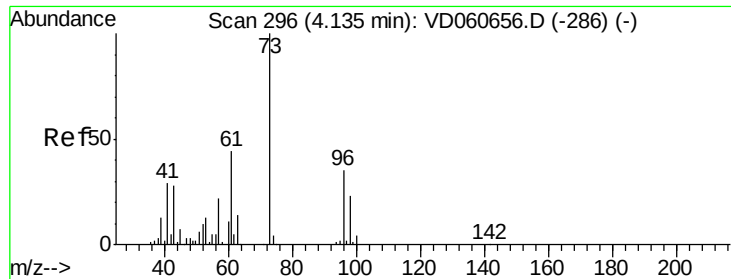
74 13.5 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





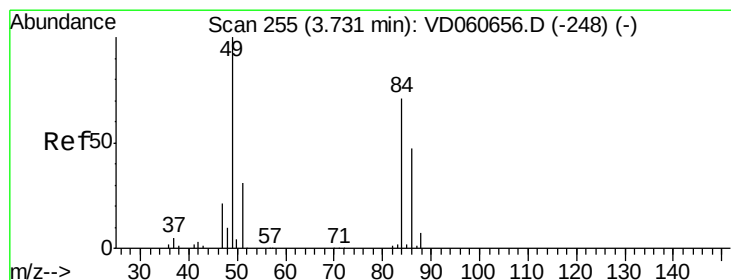
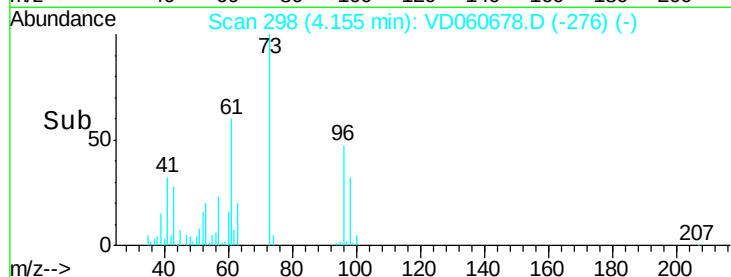
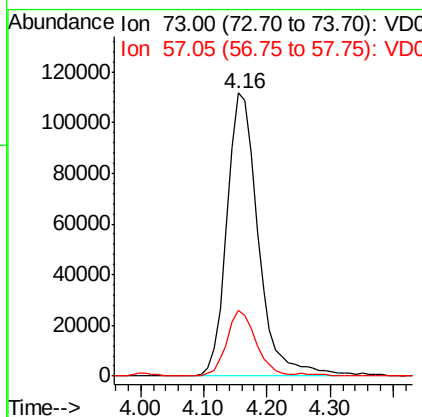
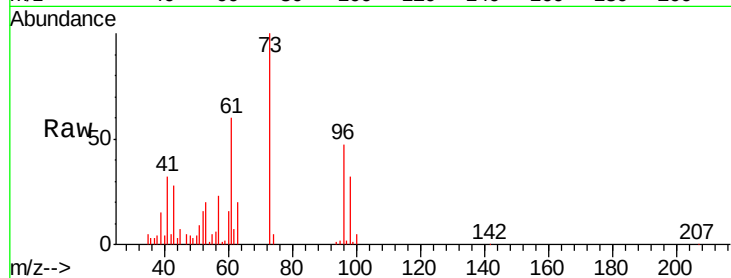
#19
Methyl tert-butyl Ether
Concen: 20.811 ug/l
RT: 4.16 min Scan# 298
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion: 73 Resp: 384379
Ion Ratio Lower Upper
73 100
57 23.2 17.6 26.4

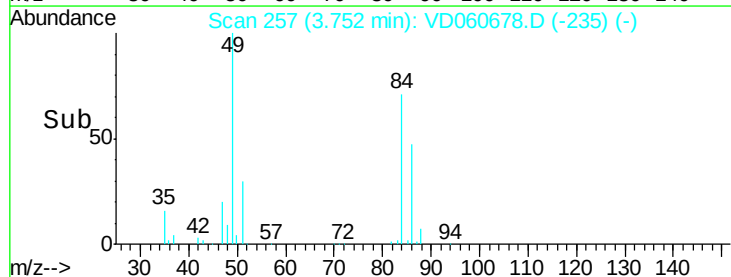
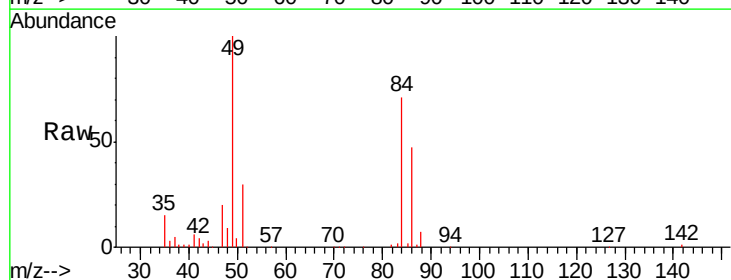
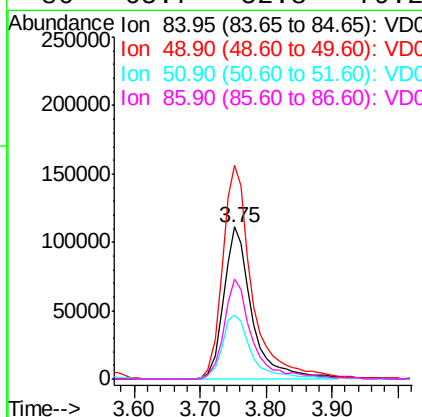
Manual Integrations
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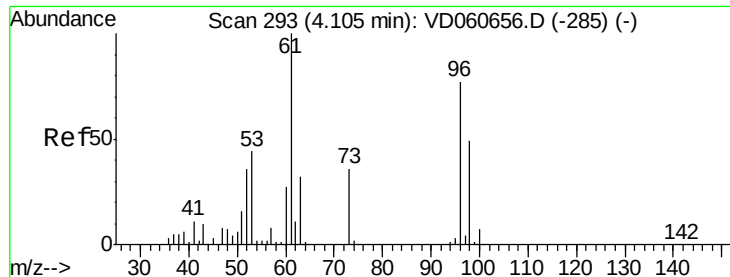
MMDadoda
12/26/2018 10:57:43 AM



#20
Methylene Chloride
Concen: 20.213 ug/l
RT: 3.75 min Scan# 257
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 84 Resp: 333233
Ion Ratio Lower Upper
84 100
49 140.6 113.6 170.4
51 42.5 34.7 52.1
86 65.7 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 19.389 ug/l

RT: 4.14 min Scan# 296

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 96 Resp: 289077

Ion Ratio Lower Upper

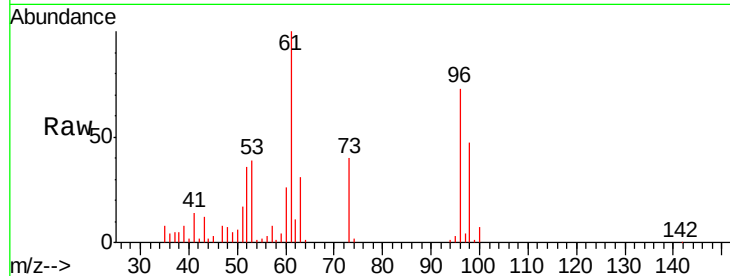
96 100

61 136.8 104.2 156.2

98 64.8 51.2 76.8

Manual Integrations
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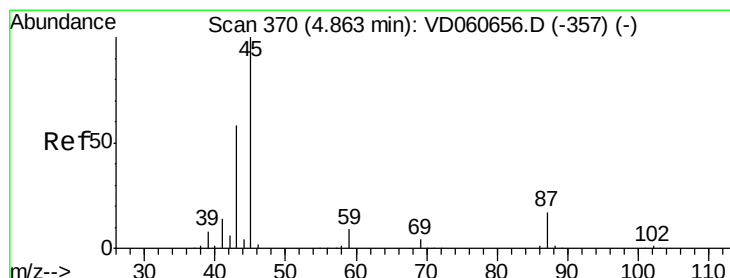
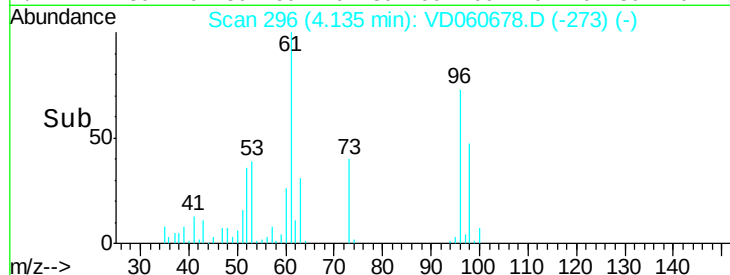
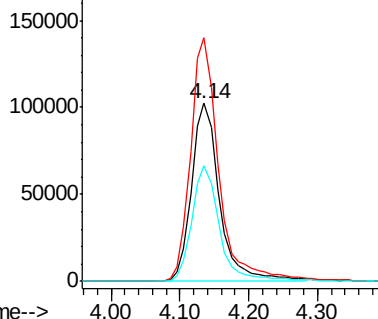
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Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 21.035 ug/l

RT: 4.89 min Scan# 373

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion: 45 Resp: 954058

Ion Ratio Lower Upper

45 100

43 56.2 46.1 69.1

87 17.1 13.7 20.5

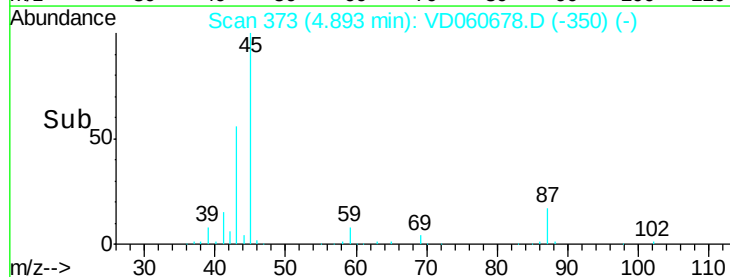
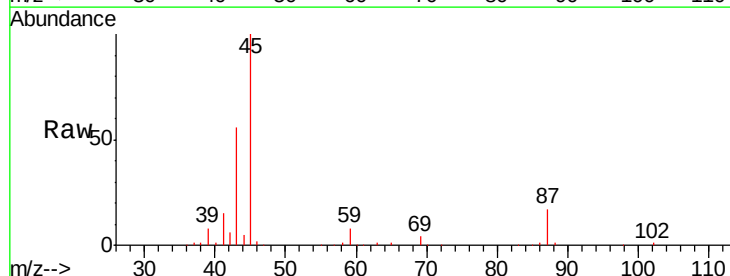
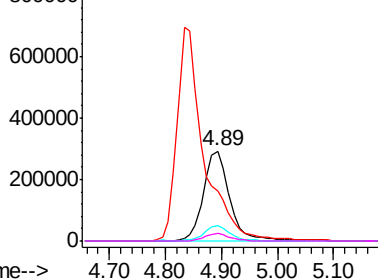
59 8.3 7.4 11.0

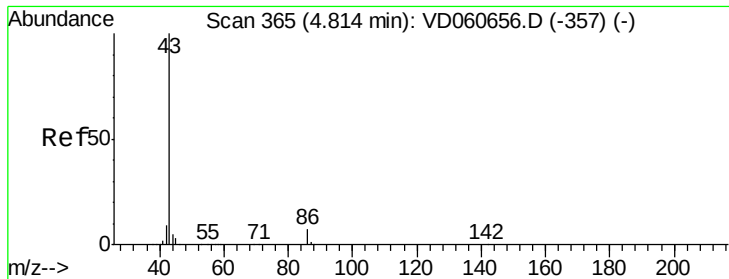
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 106.019 ug/l

RT: 4.83 min Scan# 367

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 43 Resp: 2326428

Ion Ratio Lower Upper

43 100

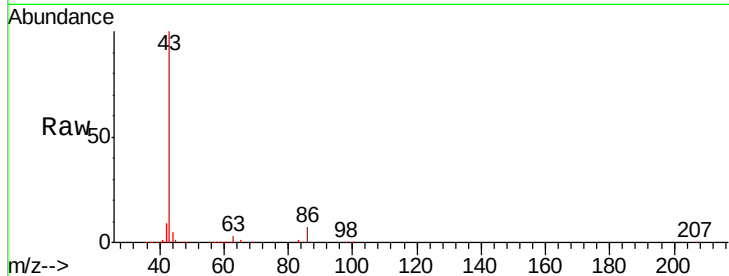
86 6.5 5.6 8.4

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

800000

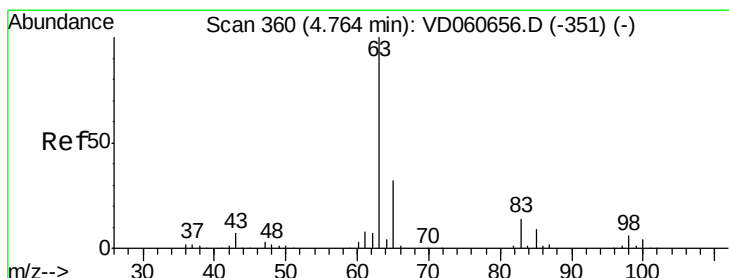
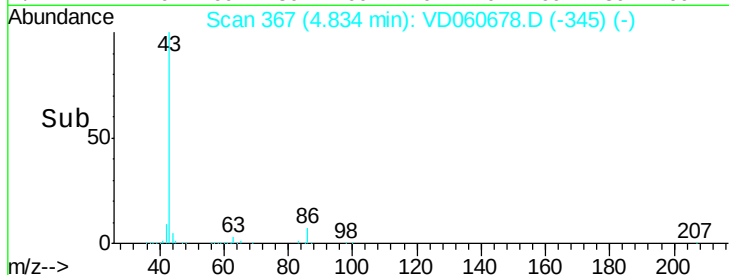
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.217 ug/l

RT: 4.79 min Scan# 363

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

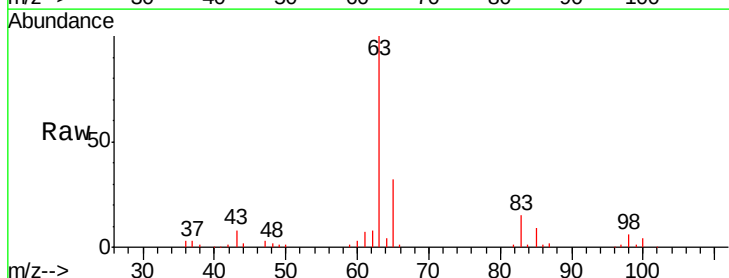
Tgt Ion: 63 Resp: 482318

Ion Ratio Lower Upper

63 100

98 6.3 2.9 8.7

100 3.6 2.0 5.8



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

200000

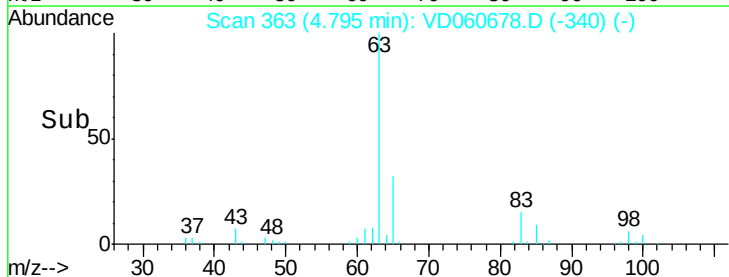
150000

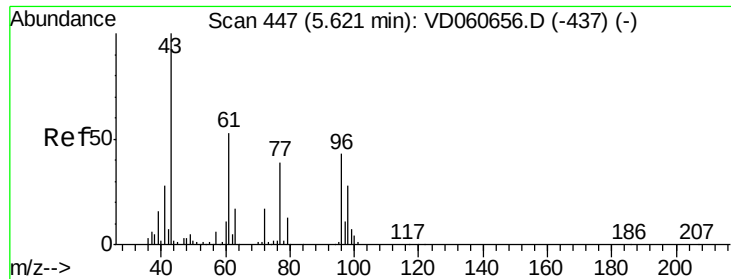
100000

50000

0

Time-->





#25

2-Butanone

Concen: 104.725 ug/l

RT: 5.66 min Scan# 451

Delta R.T. 0.04 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 43 Resp: 318121

Ion Ratio Lower Upper

43 100

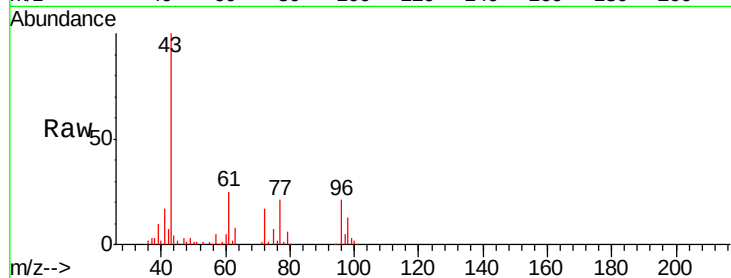
72 17.3 13.7 20.5

Manual Integrations

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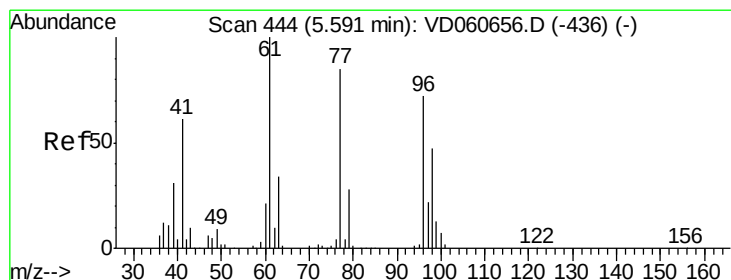
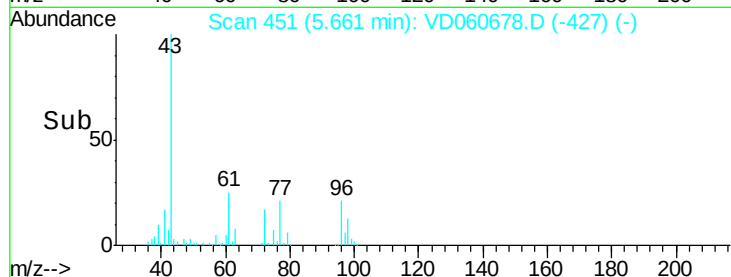
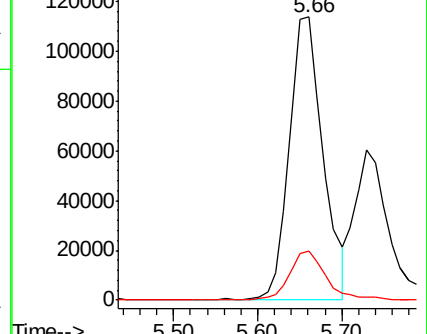
MMDadoda

12/26/2018 10:57:43 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.132 ug/l

RT: 5.62 min Scan# 447

Delta R.T. 0.03 min

Lab File: VD060678.D

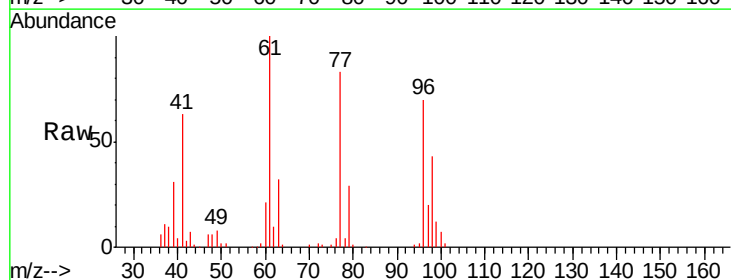
Acq: 21 Dec 2018 12:34

Tgt Ion: 77 Resp: 379111

Ion Ratio Lower Upper

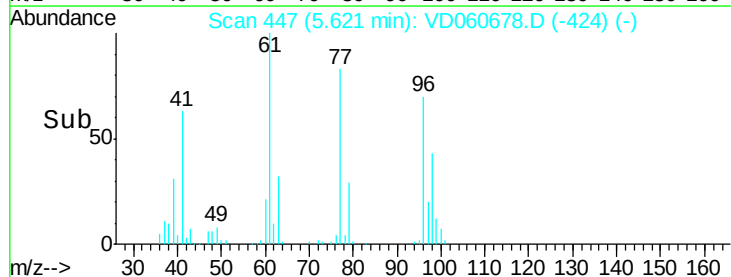
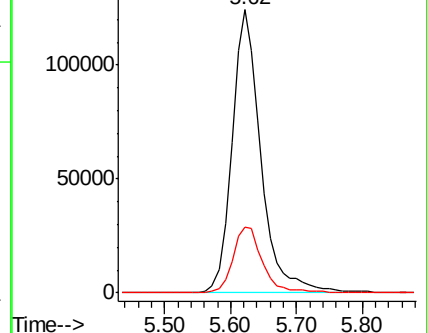
77 100

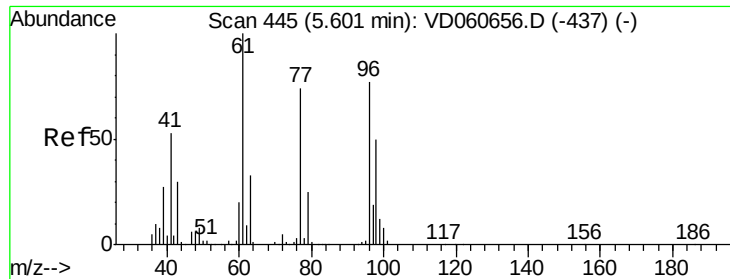
97 23.4 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

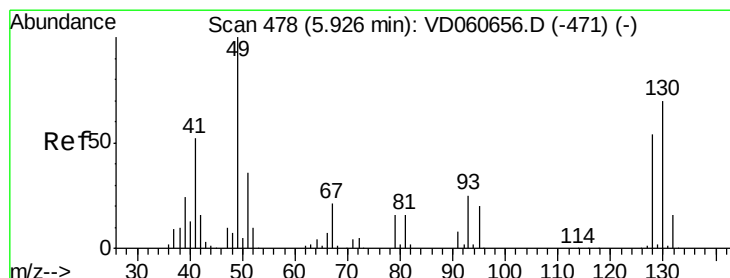
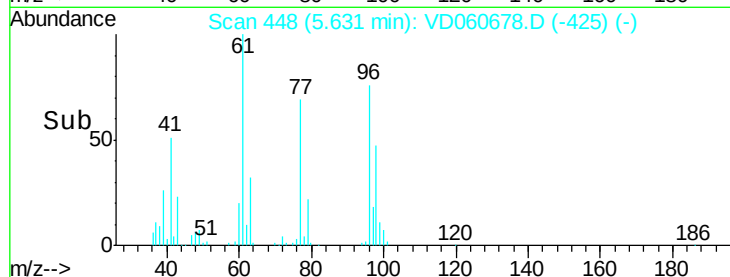
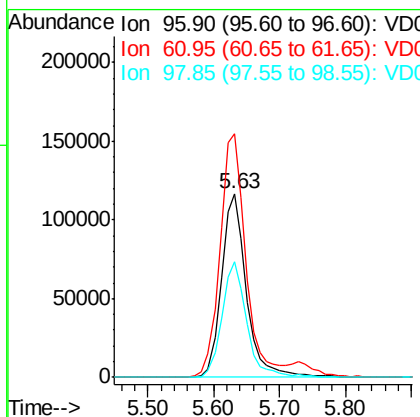
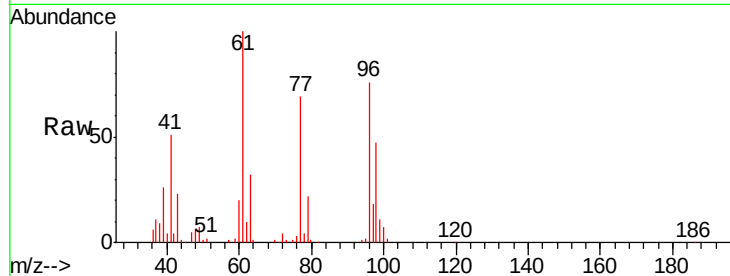
cis-1,2-Dichloroethene
Concen: 20.359 ug/l
RT: 5.63 min Scan# 448
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	308125		
61	132.3	0.0	259.4	
98	62.5	0.0	130.0	

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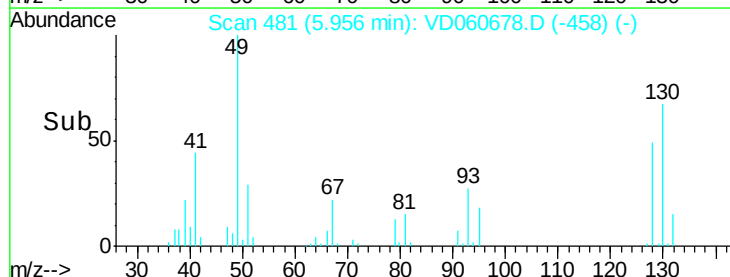
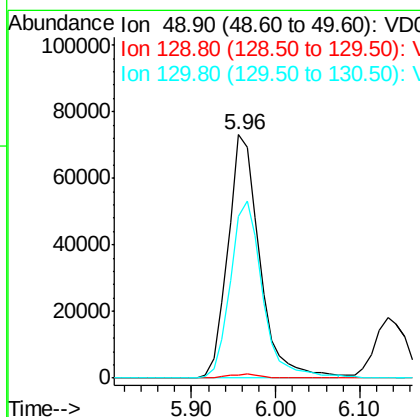
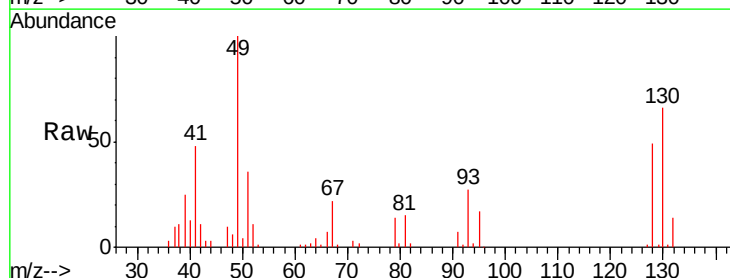
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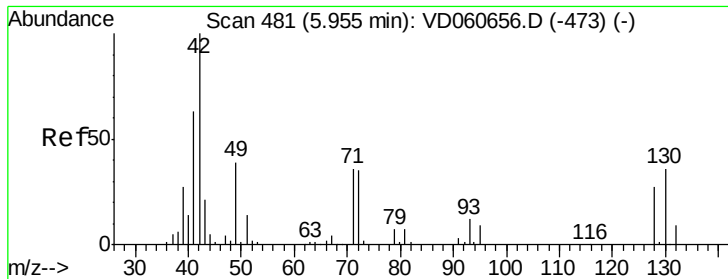


#28

Bromochloromethane
Concen: 19.022 ug/l
RT: 5.96 min Scan# 481
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	191718		
129	1.4	0.0	3.4	
130	66.4	56.2	84.2	





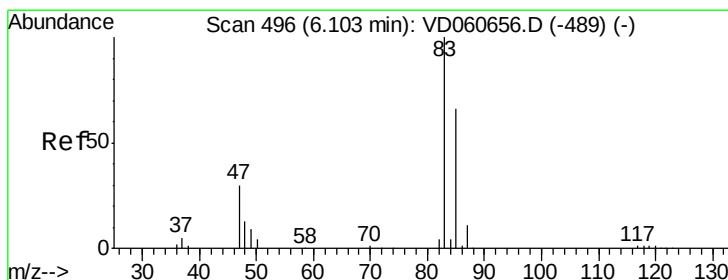
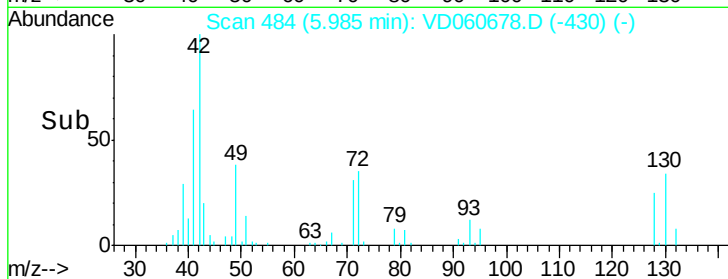
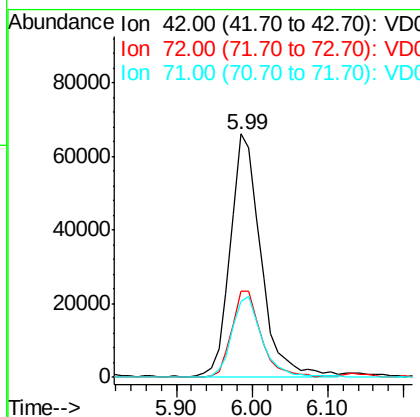
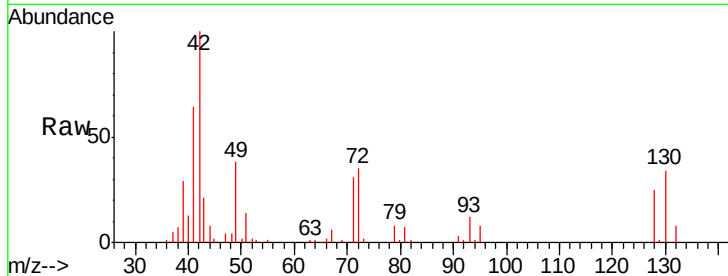
#29
Tetrahydrofuran
Concen: 107.658 ug/l
RT: 5.99 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	33.7	28.0	42.0
71	32.5	27.0	40.6

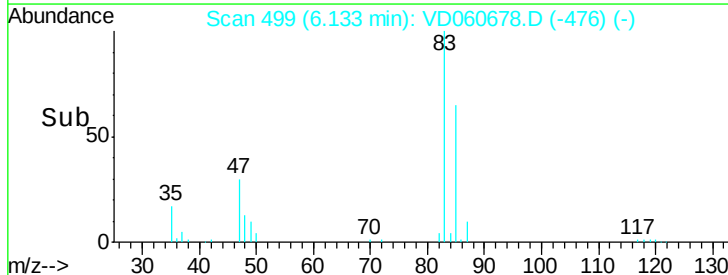
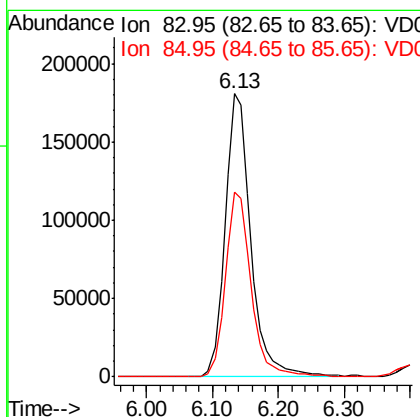
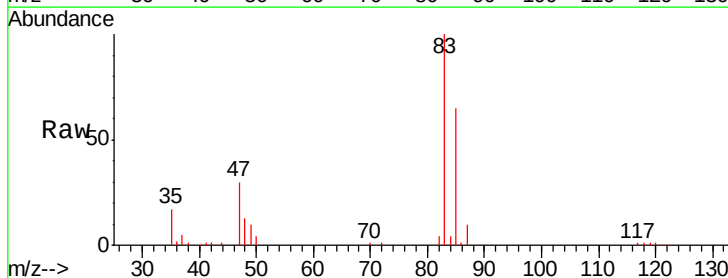
Manual Integrations
APPROVED

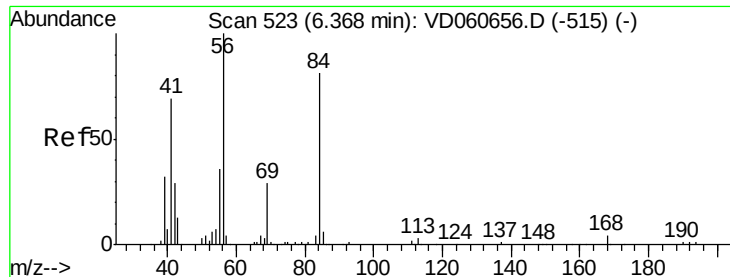
MMDadoda
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#30
Chloroform
Concen: 20.489 ug/l
RT: 6.13 min Scan# 499
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	53.0	79.6





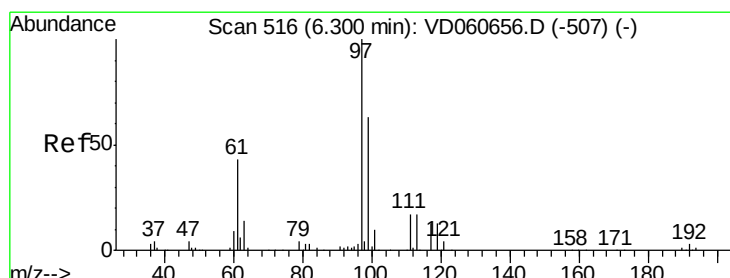
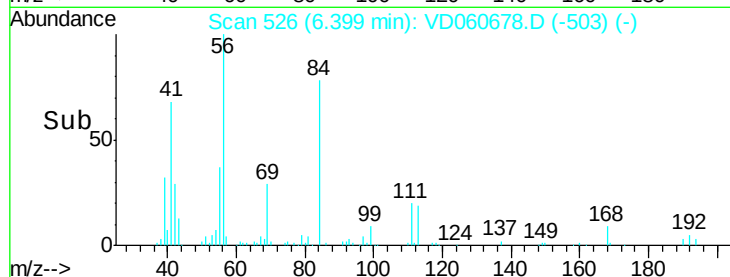
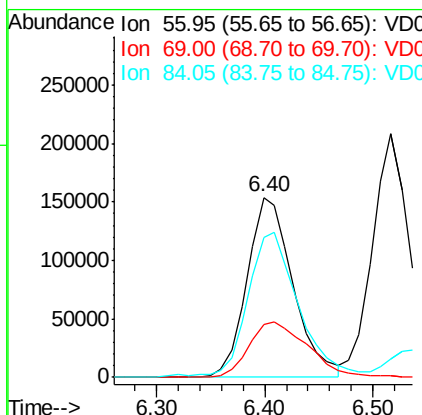
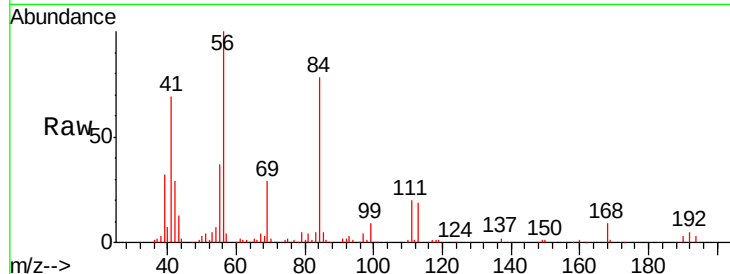
#31
Cyclohexane
Concen: 19.769 ug/l
RT: 6.40 min Scan# 526
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.6	35.4
84	77.9	65.8	98.6

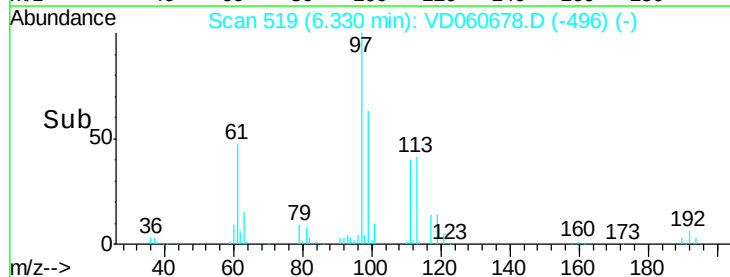
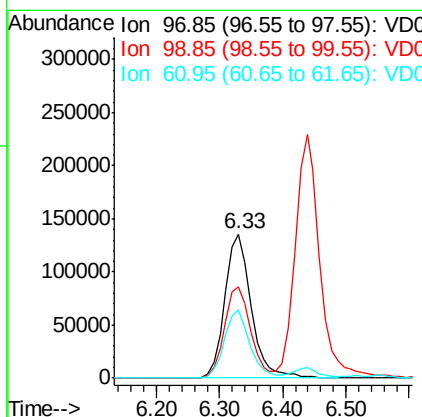
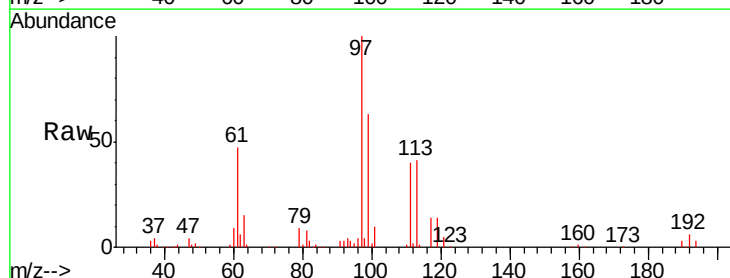
Manual Integrations
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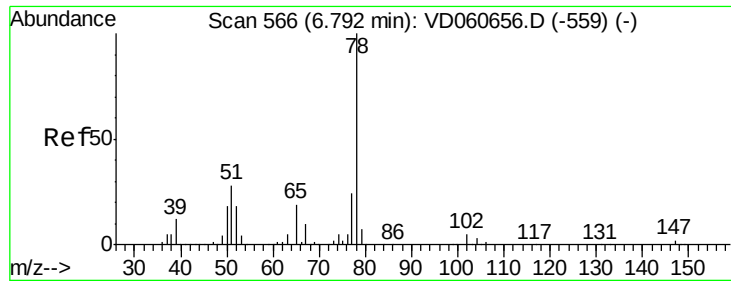
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.805 ug/l
RT: 6.33 min Scan# 519
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.5	75.7
61	46.9	34.6	51.8





#33

1,2-Dichloroethane-d4

Concen: 19.805 ug/l

RT: 6.82 min Scan# 569

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

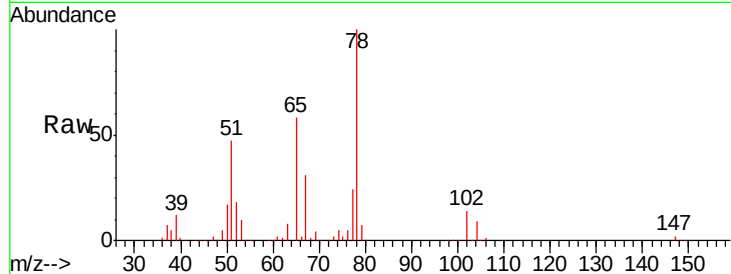
Tgt Ion: 65 Resp: 507547
Ion Ratio Lower Upper

65 100

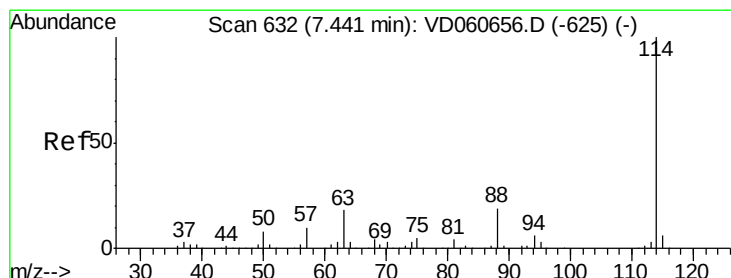
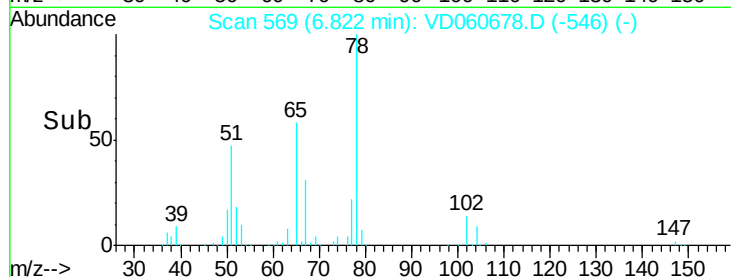
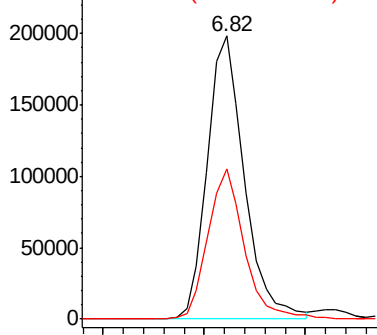
67 53.2 0.0 105.4

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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.48 min Scan# 636

Delta R.T. 0.04 min

Lab File: VD060678.D

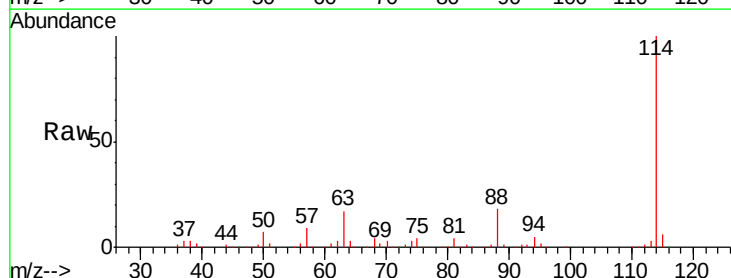
Acq: 21 Dec 2018 12:34

Tgt Ion: 114 Resp: 1805044
Ion Ratio Lower Upper

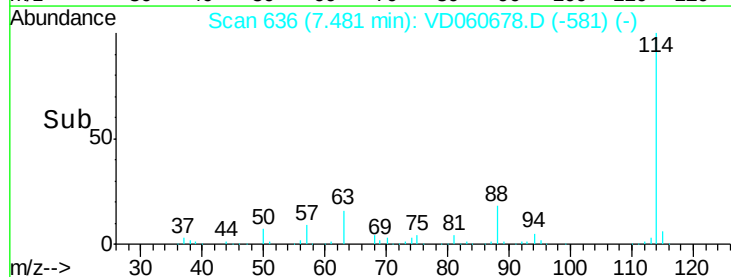
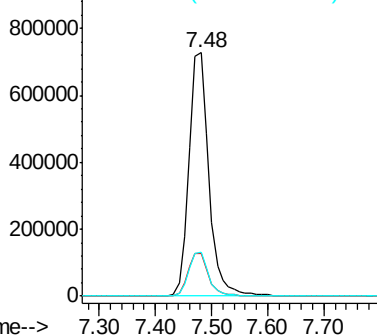
114 100

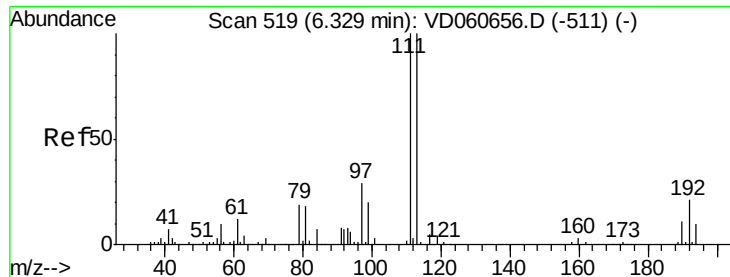
63 17.4 0.0 36.2

88 17.8 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): VDC
Ion 62.95 (62.65 to 63.65): VDC
Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.36 min Scan# 522

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

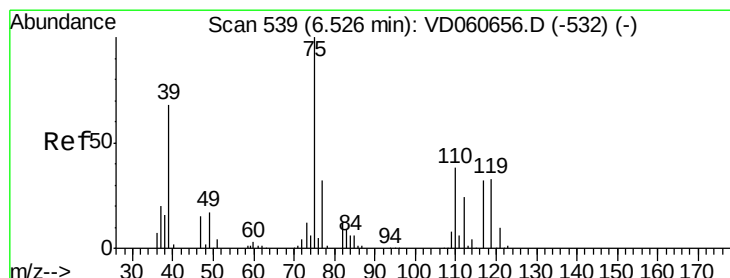
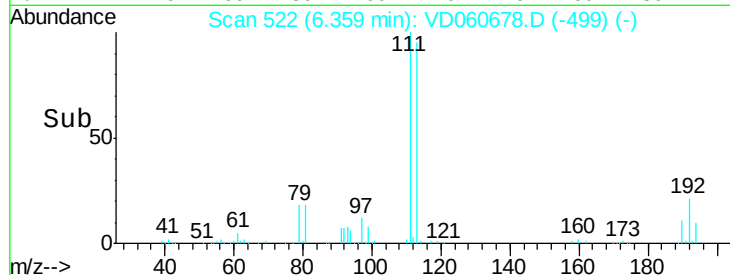
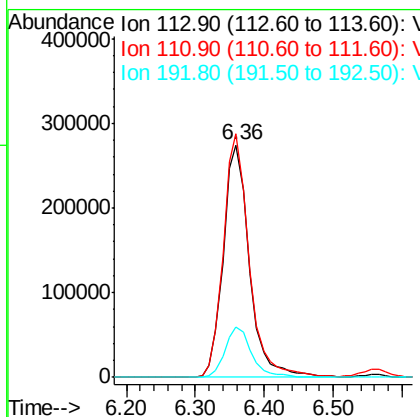
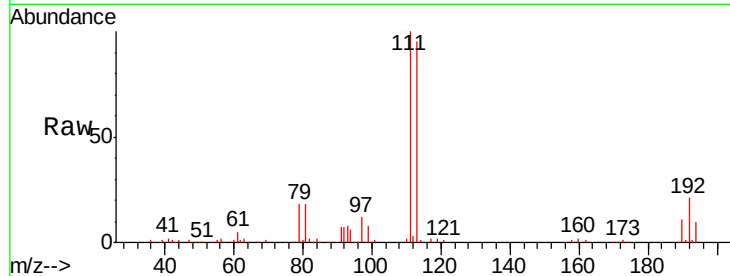
ClientSampleId :

VD1221SBS01

Tgt Ion:	113	Resp:	723144
Ion Ratio	Lower	Upper	
113	100		
111	104.7	80.0	120.0
192	21.8	16.6	25.0

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 20.820 ug/l

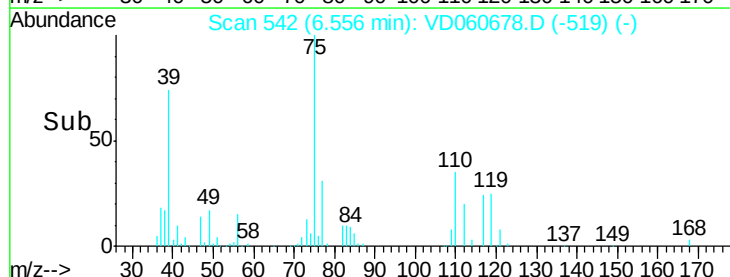
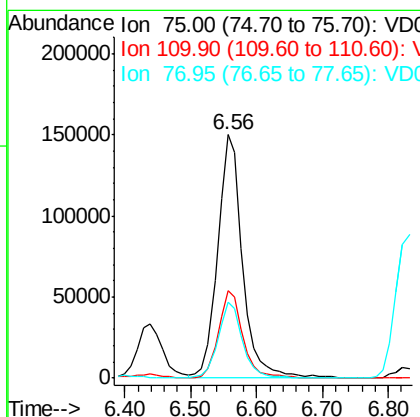
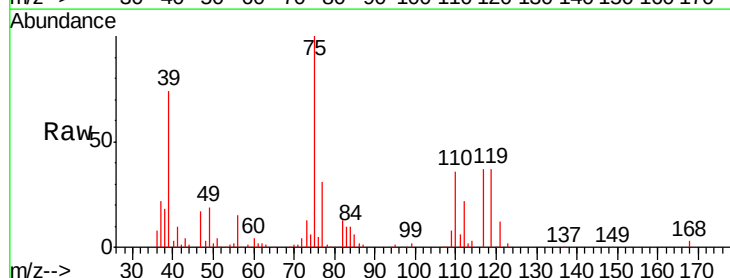
RT: 6.56 min Scan# 542

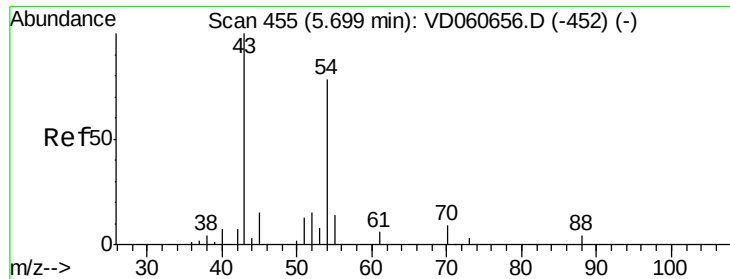
Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion:	75	Resp:	386989
Ion Ratio	Lower	Upper	
75	100		
110	35.8	18.9	56.7
77	31.4	25.4	38.0





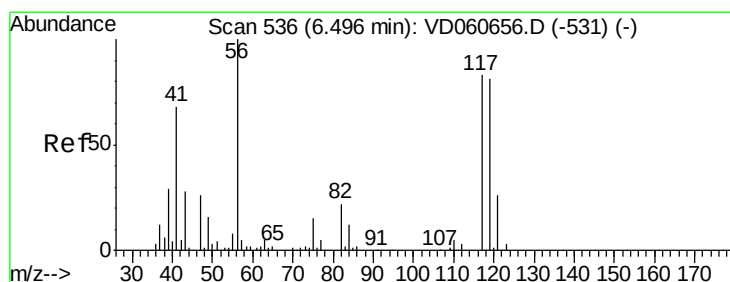
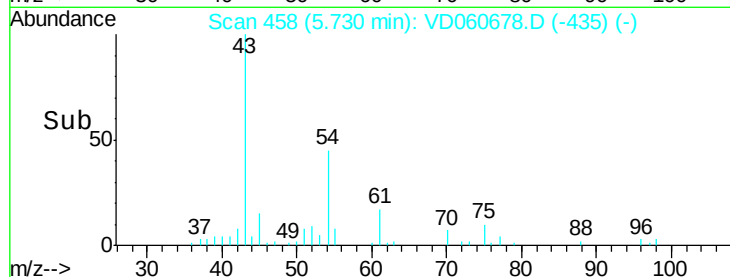
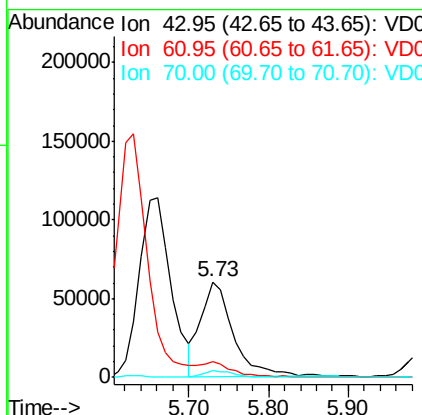
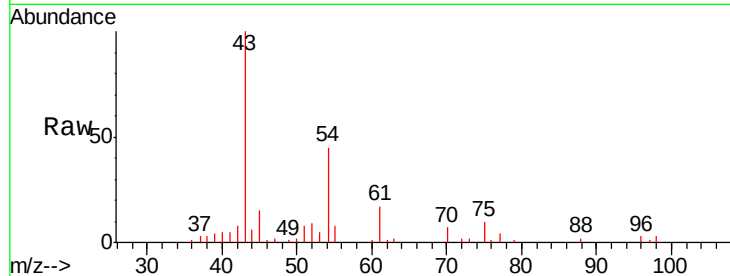
#37
Ethyl Acetate
Concen: 21.629 ug/l
RT: 5.73 min Scan# 458
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.8	11.8	17.6
70	7.1	5.8	8.6

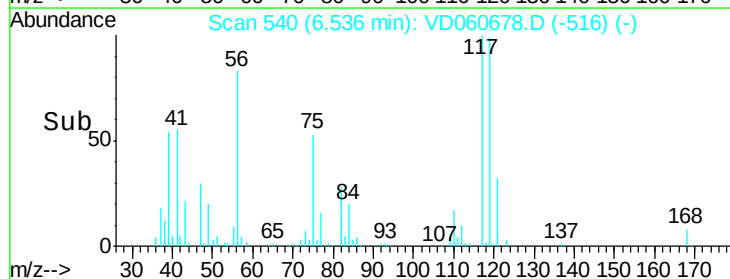
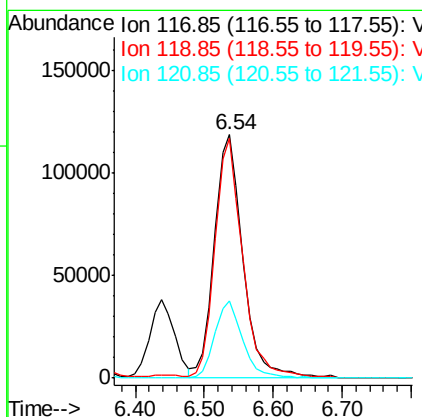
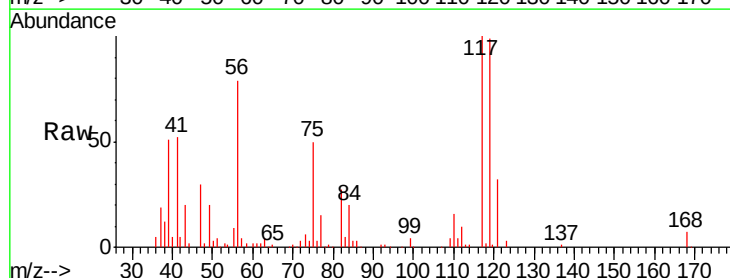
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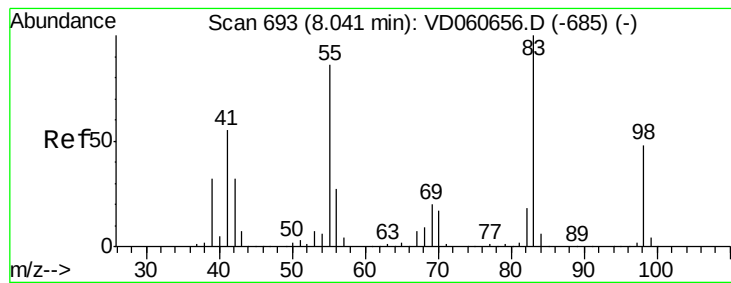
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#38
Carbon Tetrachloride
Concen: 20.526 ug/l
RT: 6.54 min Scan# 540
Delta R.T. 0.04 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.5	77.0	115.4
121	31.6	24.7	37.1





#39

Methylcyclohexane

Concen: 20.114 ug/l

RT: 8.07 min Scan# 696

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

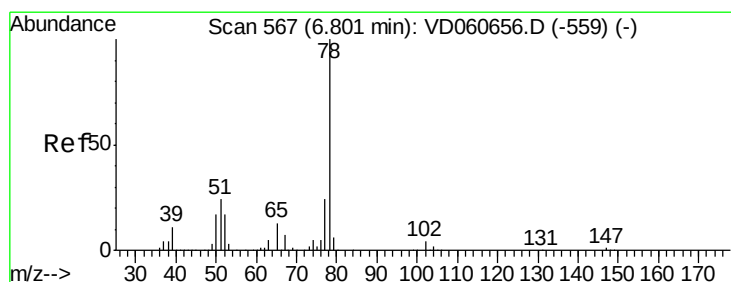
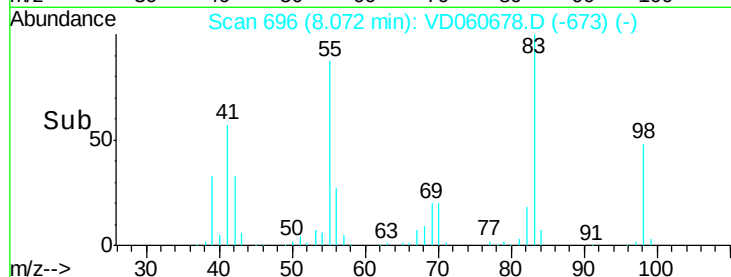
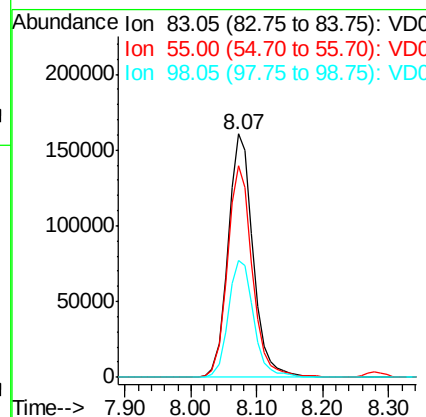
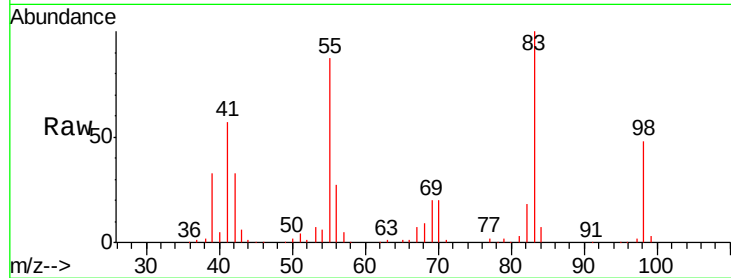
ClientSampleId :

VD1221SBS01

Tgt Ion:	83	Resp:	426386
Ion	Ratio	Lower	Upper
83	100		
55	86.9	68.6	102.8
98	48.3	38.1	57.1

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#40

Benzene

Concen: 20.468 ug/l

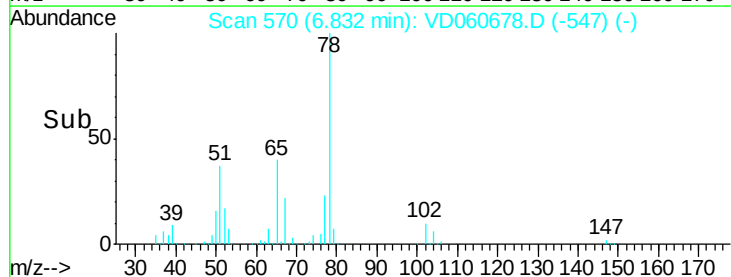
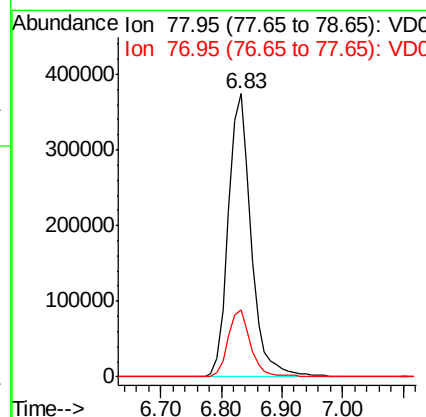
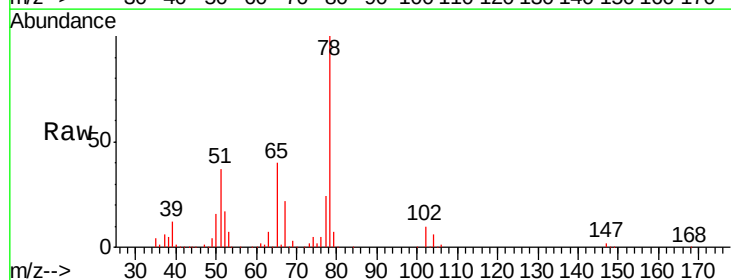
RT: 6.83 min Scan# 570

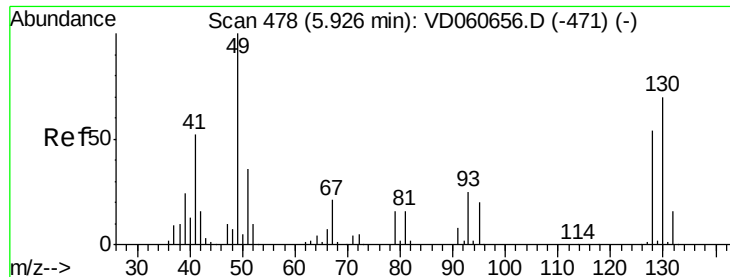
Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion:	78	Resp:	982690
Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.2	28.8





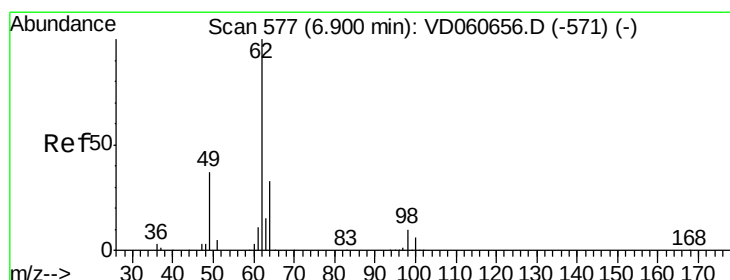
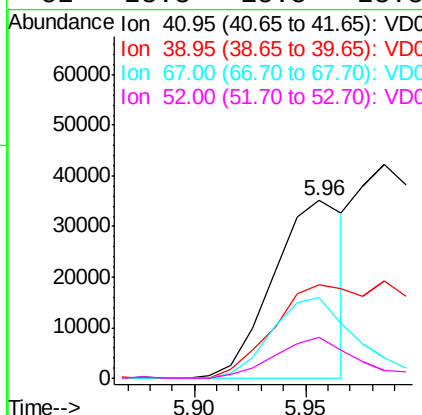
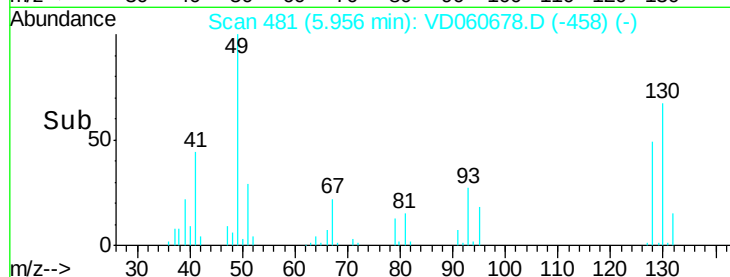
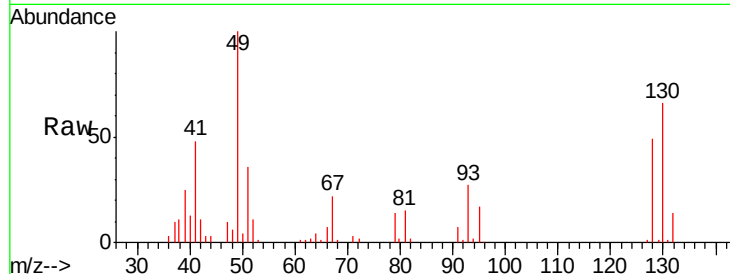
#41
Methacrylonitrile
Concen: 18.382 ug/l m
RT: 5.96 min Scan# 481
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	52.4	37.6	56.4
67	45.7	33.0	49.6
52	23.3	15.5	23.3#

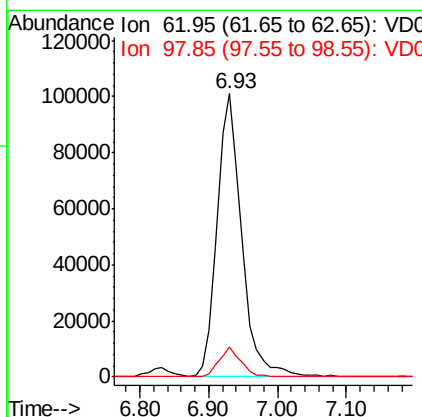
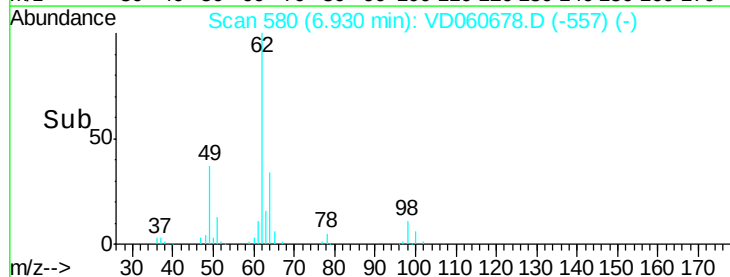
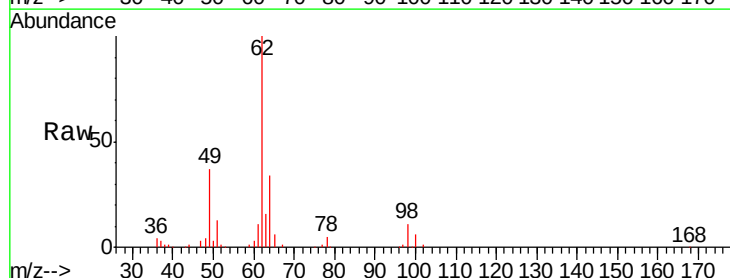
Manual Integrations
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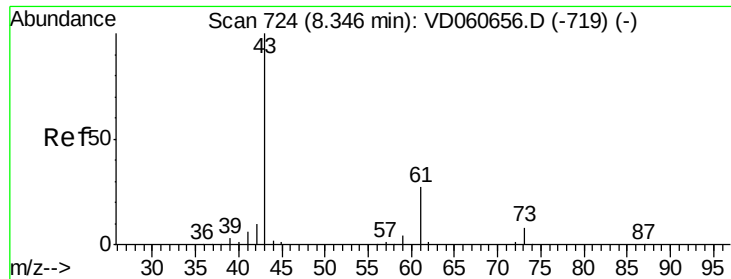
MMDadoda
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#42
1,2-Dichloroethane
Concen: 20.905 ug/l
RT: 6.93 min Scan# 580
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	20.4





#43

Isopropyl Acetate

Concen: 19.702 ug/l

RT: 8.38 min Scan# 727

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 43 Resp: 196537

Ion Ratio Lower Upper

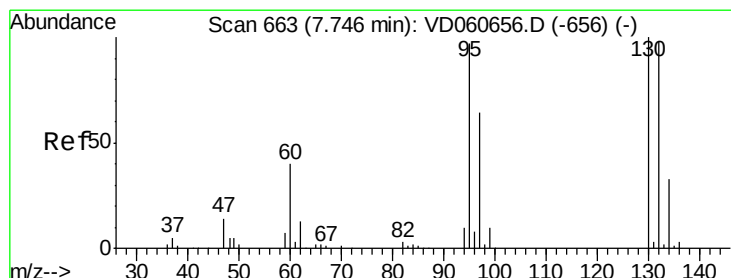
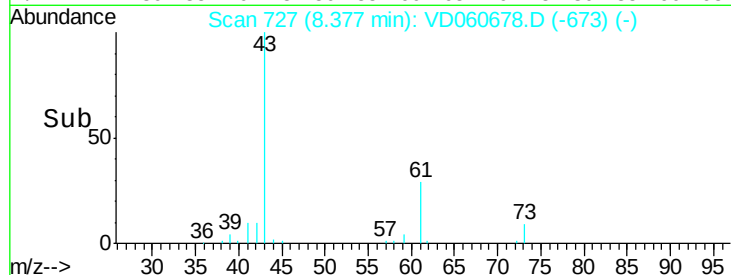
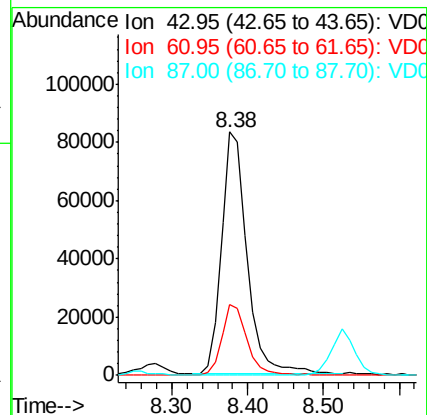
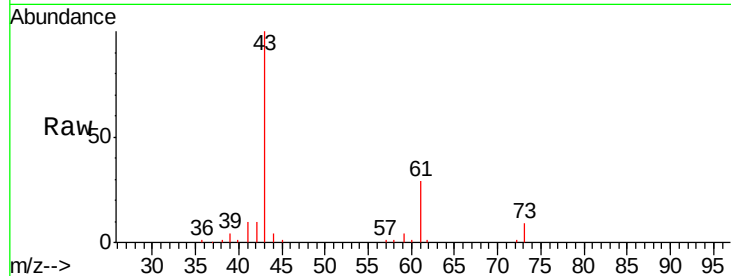
43 100

61 29.3 21.8 32.8

87 0.0 0.2 0.4#

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#44

Trichloroethene

Concen: 20.195 ug/l

RT: 7.78 min Scan# 666

Delta R.T. 0.03 min

Lab File: VD060678.D

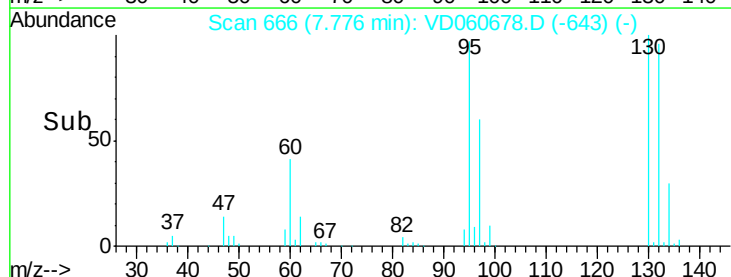
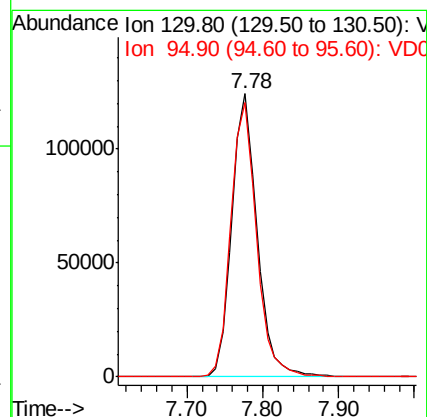
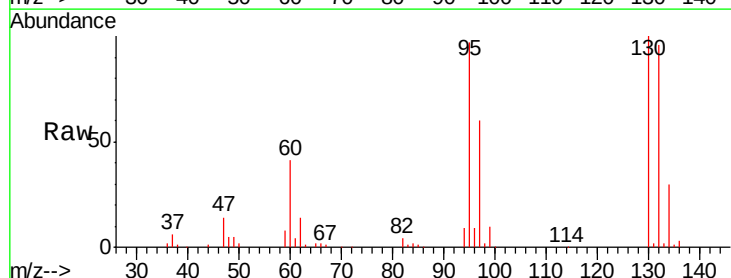
Acq: 21 Dec 2018 12:34

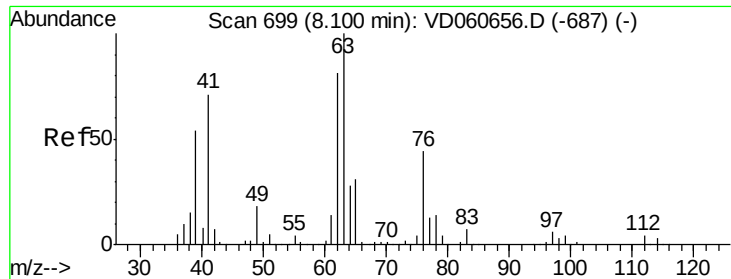
Tgt Ion: 130 Resp: 286975

Ion Ratio Lower Upper

130 100

95 97.0 0.0 193.6





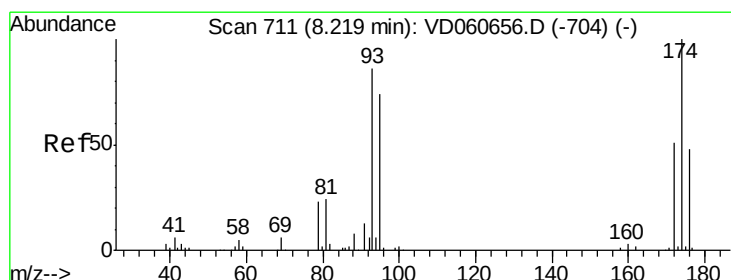
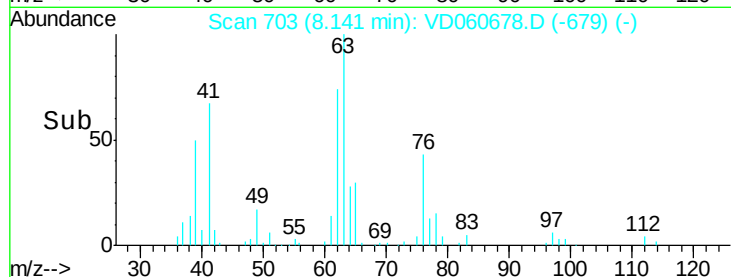
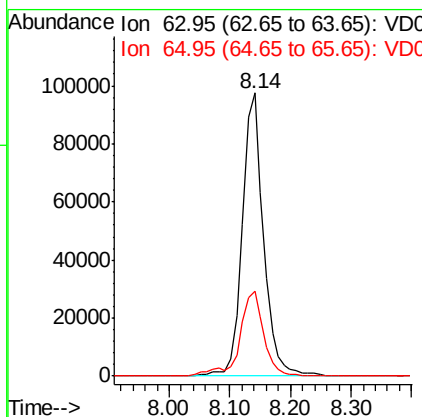
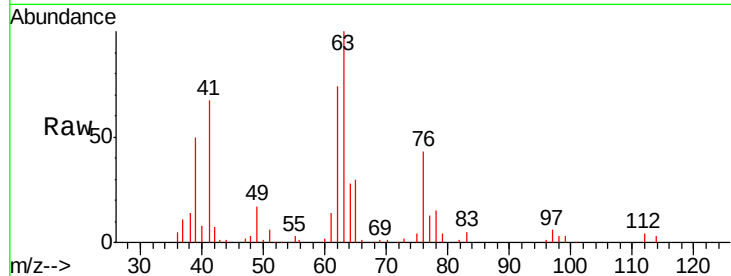
#45
 1,2-Dichloropropane
 Concen: 20.120 ug/l
 RT: 8.14 min Scan# 703
 Delta R.T. 0.04 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion: 63 Resp: 236896
 Ion Ratio Lower Upper
 63 100
 65 30.2 25.0 37.6

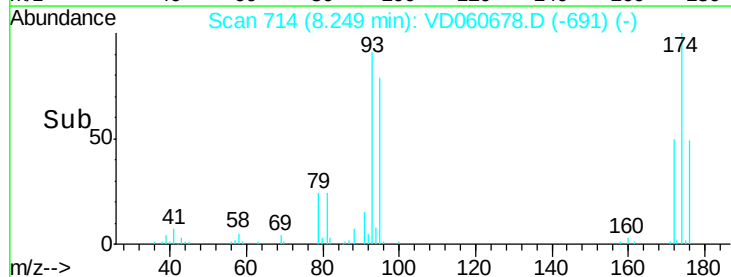
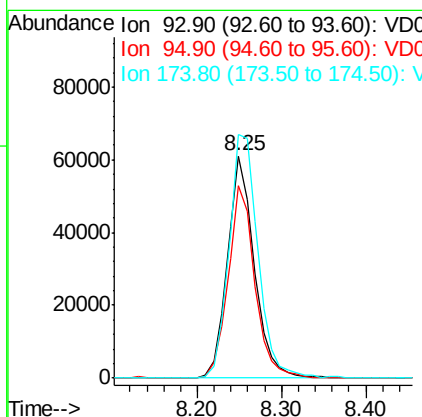
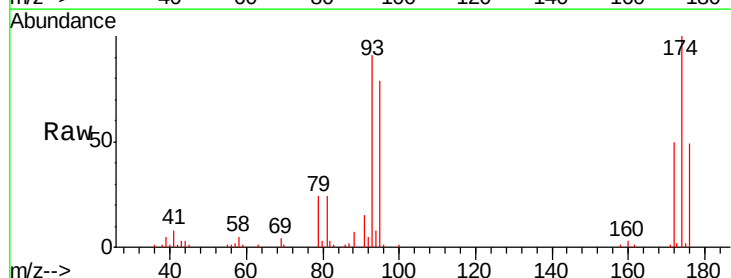
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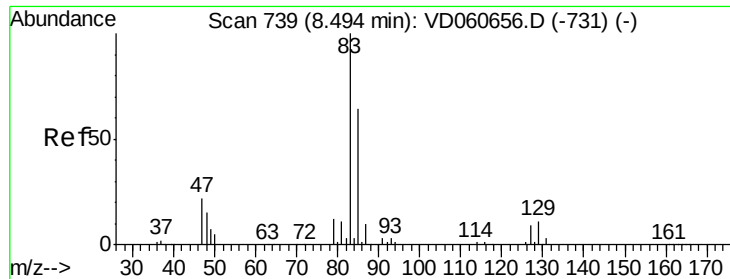
MMDadoda
 12/26/2018 10:57:43 AM



#46
 Dibromomethane
 Concen: 20.050 ug/l
 RT: 8.25 min Scan# 714
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 93 Resp: 134738
 Ion Ratio Lower Upper
 93 100
 95 86.4 68.8 103.2
 174 109.4 93.0 139.4





#47

Bromodichloromethane

Concen: 20.393 ug/l

RT: 8.52 min Scan# 742

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

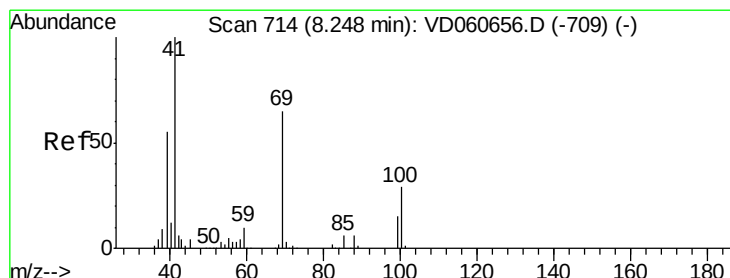
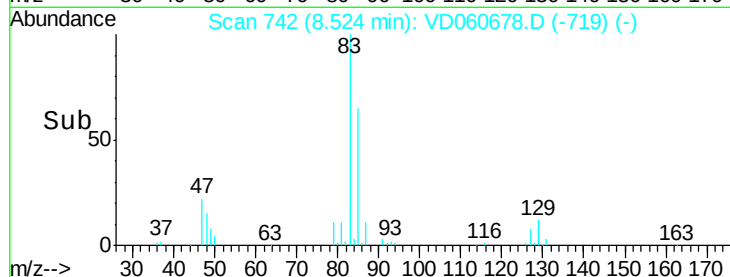
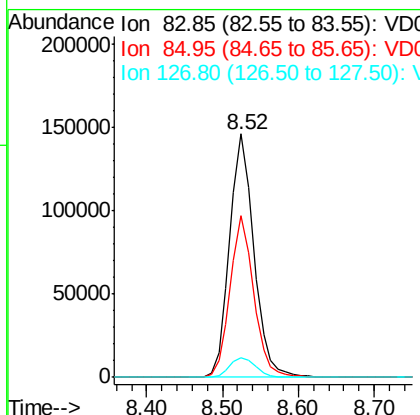
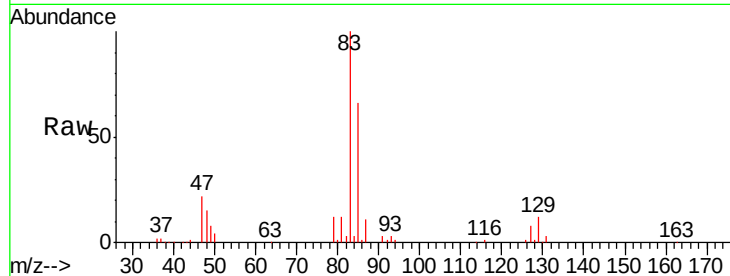
ClientSampleId :

VD1221SBS01

Tgt Ion:	83	Resp:	324580
Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.1	76.7
127	8.2	7.0	10.6

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#48

Methyl methacrylate

Concen: 20.576 ug/l

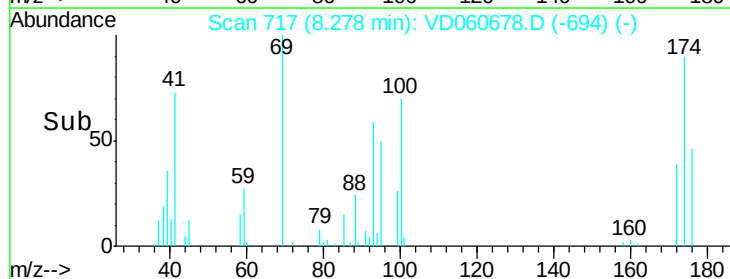
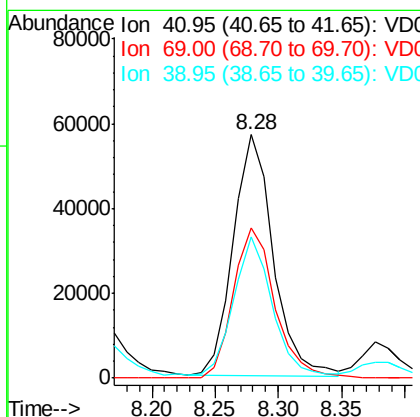
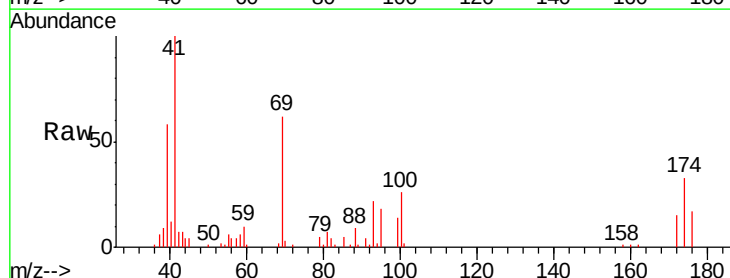
RT: 8.28 min Scan# 717

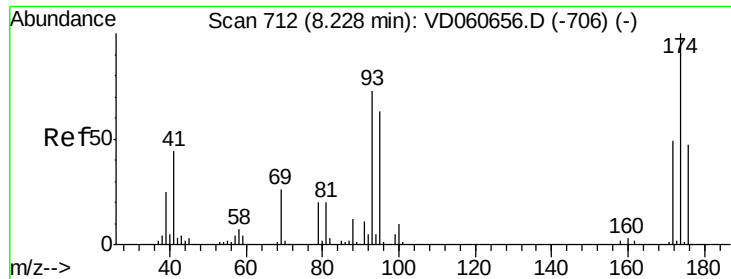
Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion:	41	Resp:	124669
Ion	Ratio	Lower	Upper
41	100		
69	61.6	51.2	76.8
39	58.0	44.6	67.0





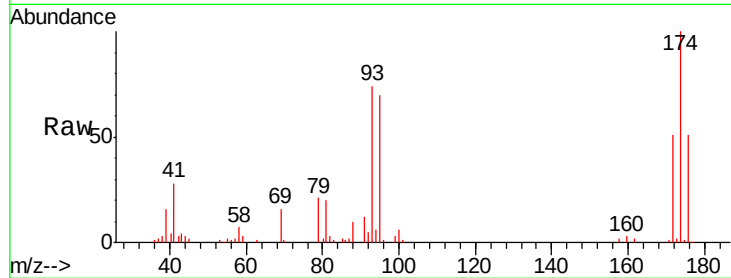
#49
1,4-Dioxane
Concen: 371.387 ug/l
RT: 8.26 min Scan# 715
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

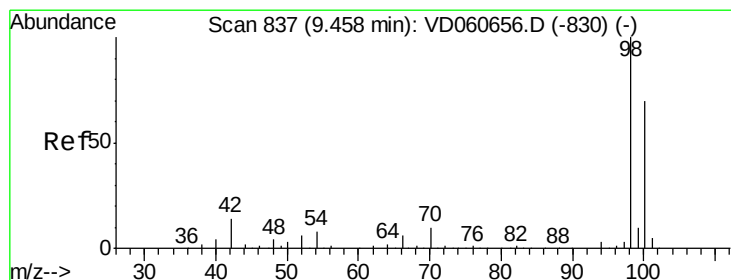
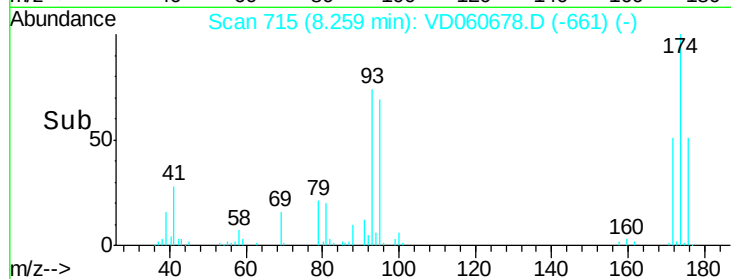
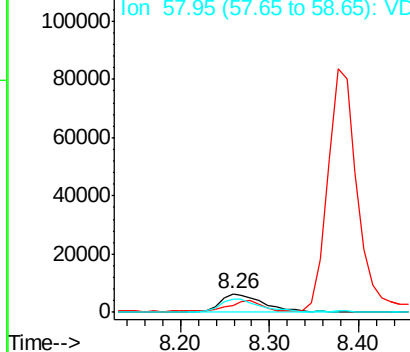
Tgt Ion	Ratio	Lower	Upper
88	100		
43	37.7	31.5	47.3
58	73.7	50.6	76.0

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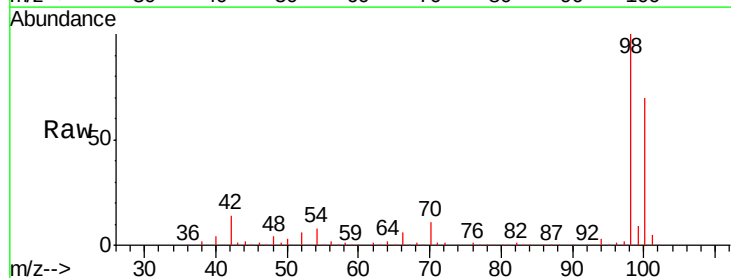


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

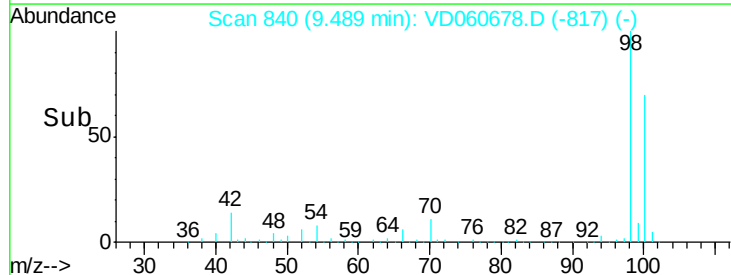
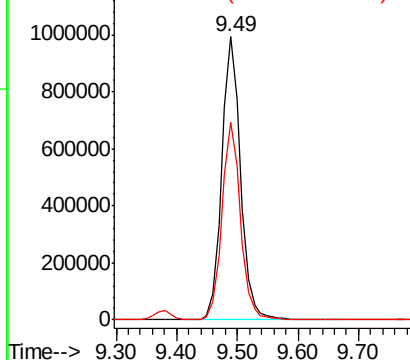


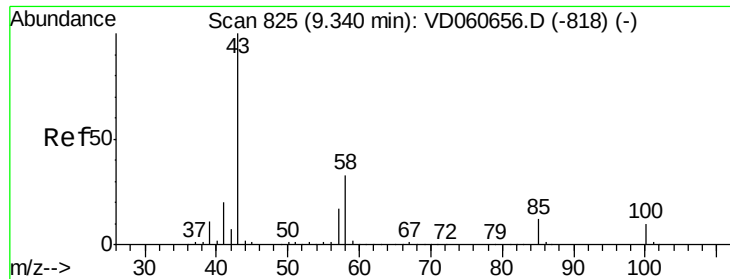
#50
Toluene-d8
Concen: 371.387 ug/l
RT: 9.49 min Scan# 840
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.7	55.8	83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 106.176 ug/l

RT: 9.37 min Scan# 828

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 43 Resp: 648930

Ion Ratio Lower Upper

43 100

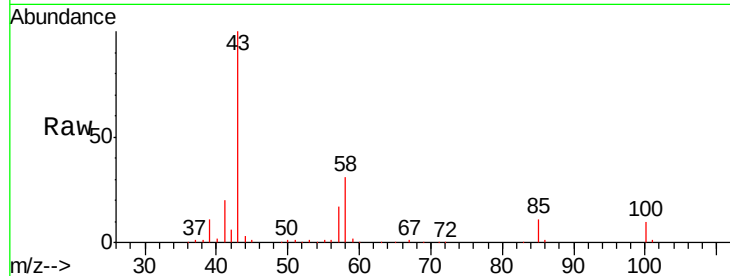
58 31.3 26.3 39.5

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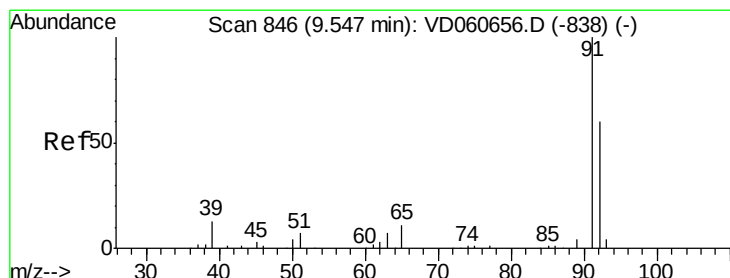
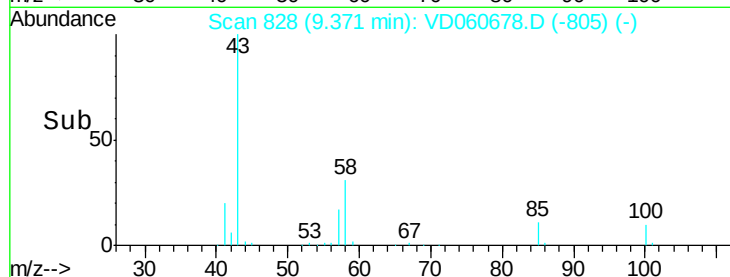
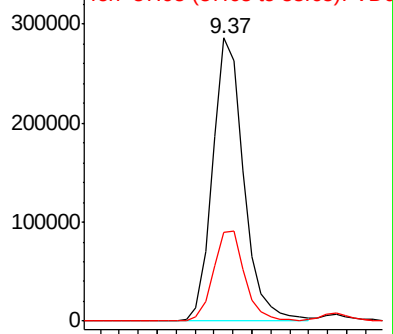
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.406 ug/l

RT: 9.58 min Scan# 849

Delta R.T. 0.03 min

Lab File: VD060678.D

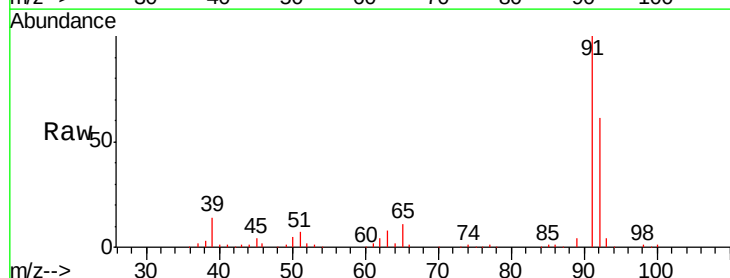
Acq: 21 Dec 2018 12:34

Tgt Ion: 92 Resp: 614187

Ion Ratio Lower Upper

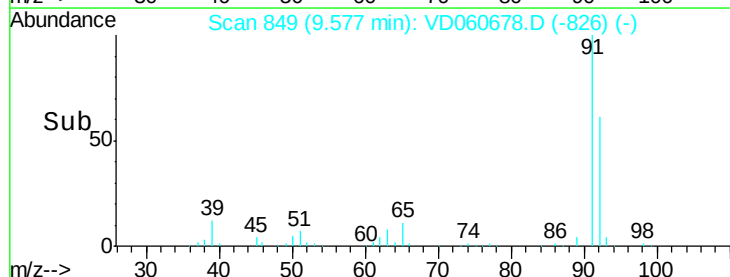
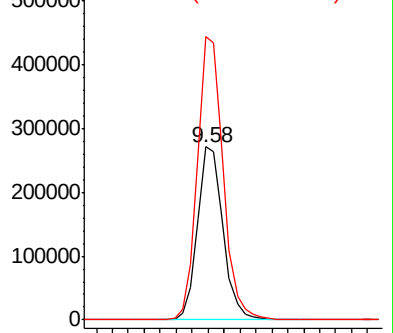
92 100

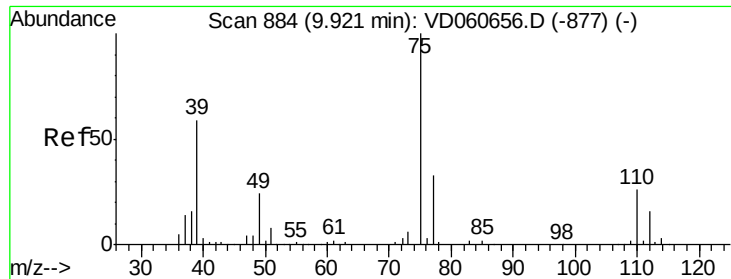
91 163.9 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 19.848 ug/l

RT: 9.95 min Scan# 887

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

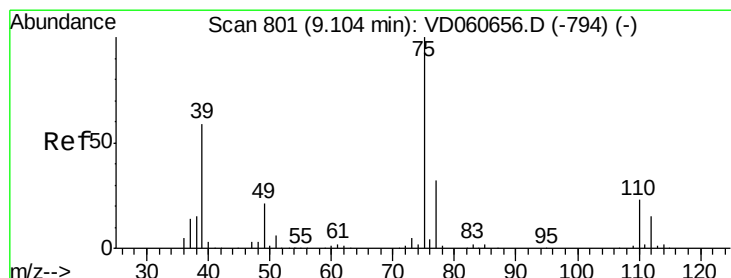
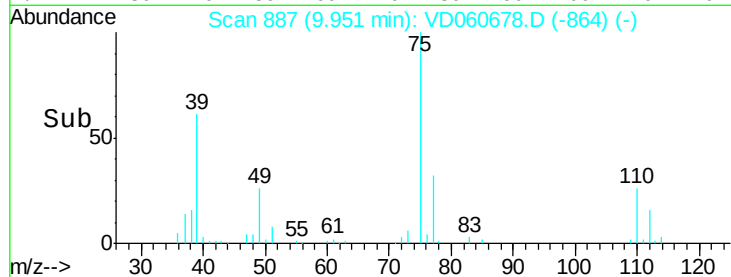
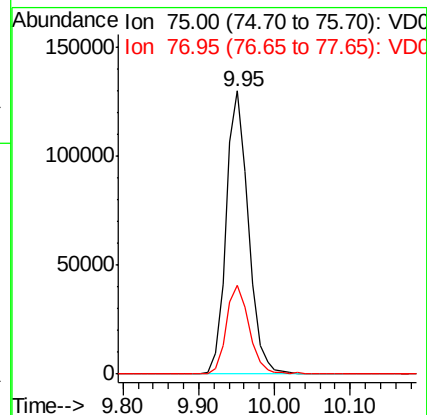
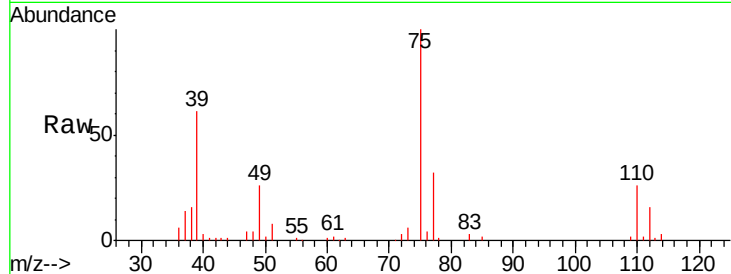
Tgt Ion: 75 Resp: 263557
Ion Ratio Lower Upper

75 100

77 31.6 26.0 39.0

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#54

cis-1,3-Dichloropropene

Concen: 20.368 ug/l

RT: 9.13 min Scan# 804

Delta R.T. 0.03 min

Lab File: VD060678.D

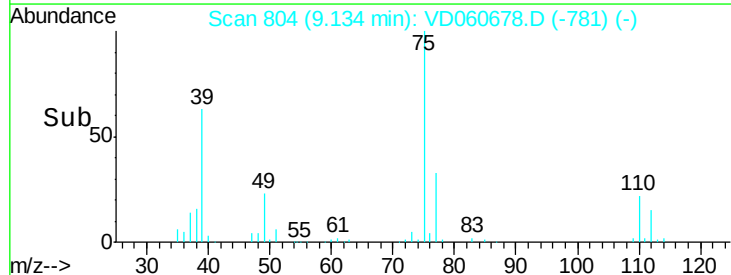
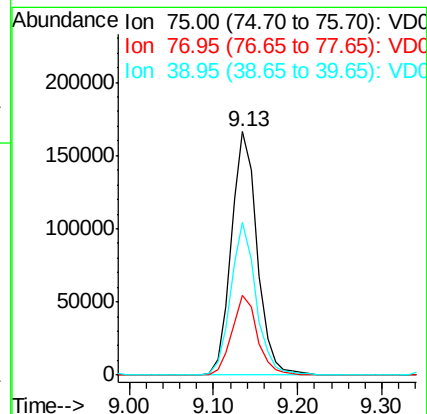
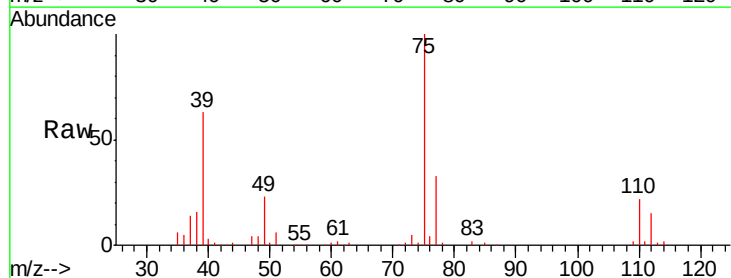
Acq: 21 Dec 2018 12:34

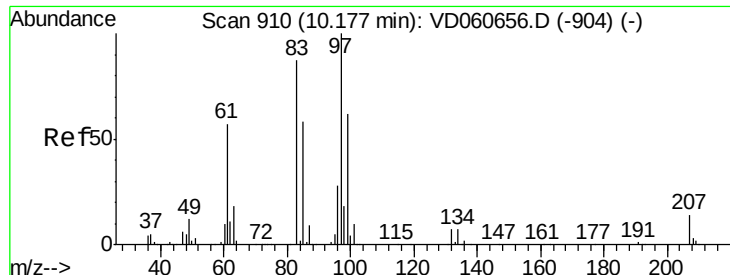
Tgt Ion: 75 Resp: 354007
Ion Ratio Lower Upper

75 100

77 32.9 25.4 38.2

39 62.8 47.0 70.4





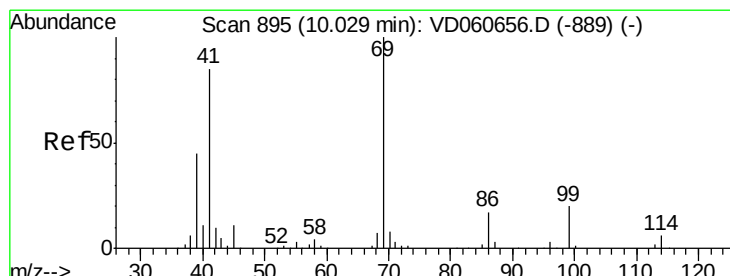
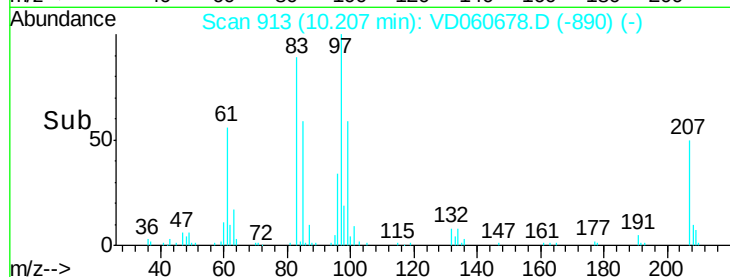
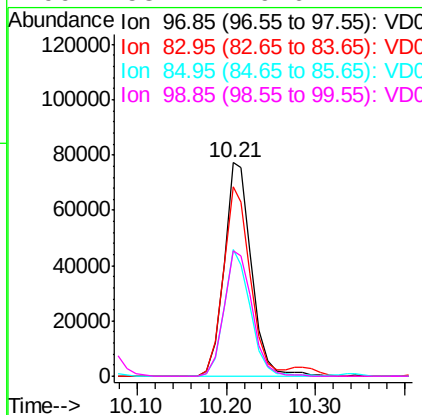
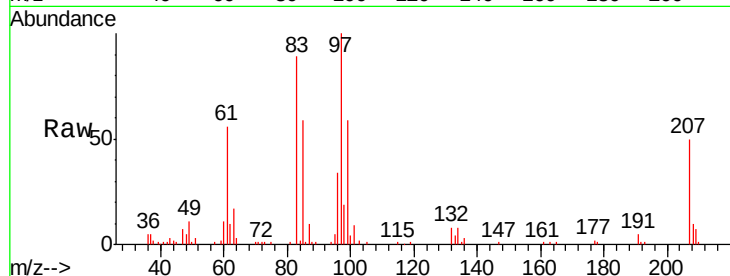
#55
 1,1,2-Trichloroethane
 Concen: 20.481 ug/l
 RT: 10.21 min Scan# 913
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		165856		
83	88.5	70.0	105.0		
85	59.3	46.6	70.0		
99	58.7	49.6	74.4		

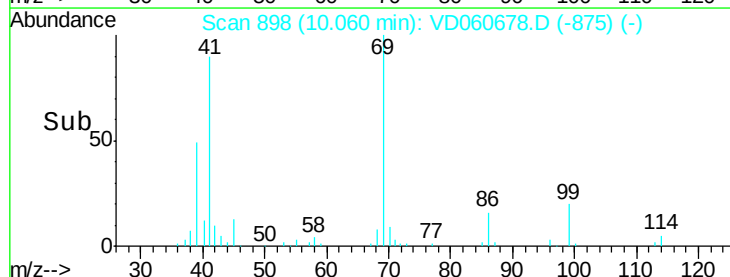
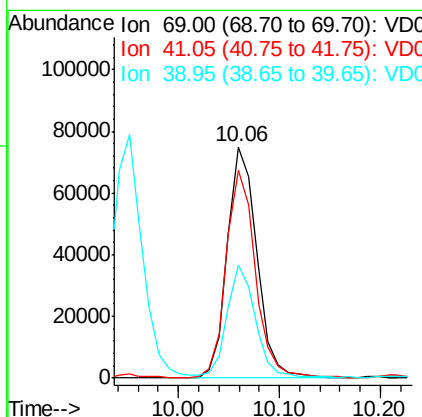
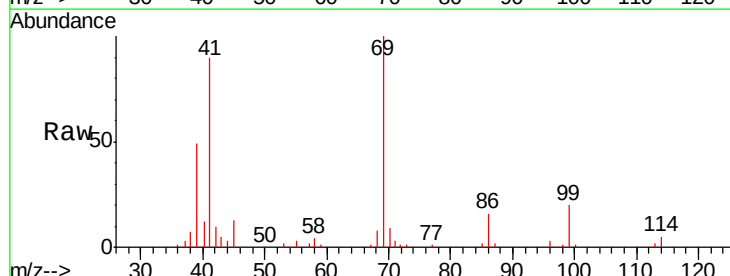
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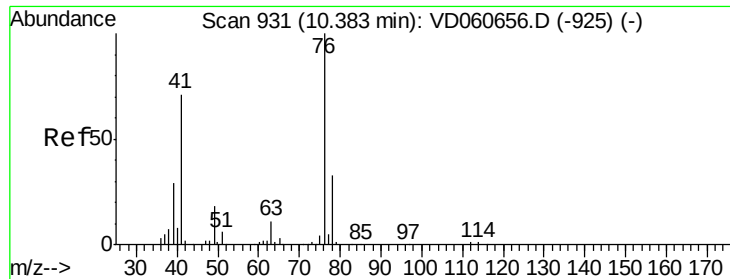
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#56
 Ethyl methacrylate
 Concen: 20.309 ug/l
 RT: 10.06 min Scan# 898
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		152758		
41	89.7	68.3	102.5		
39	48.7	37.2	55.8		





#57

1,3-Dichloropropane

Concen: 20.358 ug/l

RT: 10.41 min Scan# 934

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

Tgt Ion: 76 Resp: 261314

Ion Ratio Lower Upper

76 100

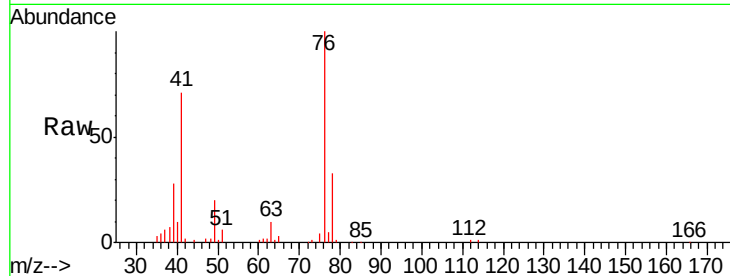
78 33.4 26.1 39.1

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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.41

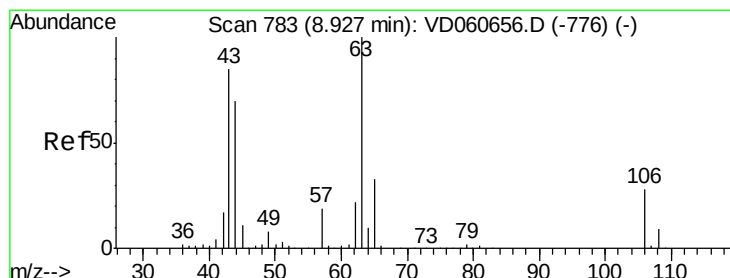
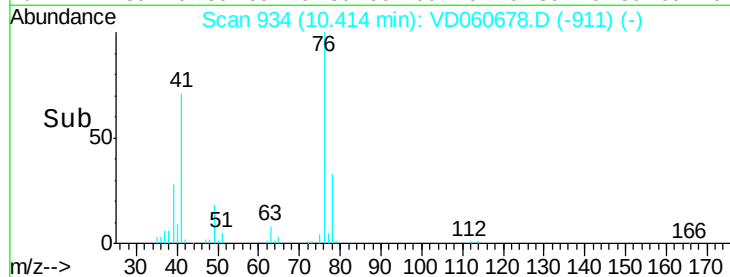
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 106.204 ug/l

RT: 8.96 min Scan# 786

Delta R.T. 0.03 min

Lab File: VD060678.D

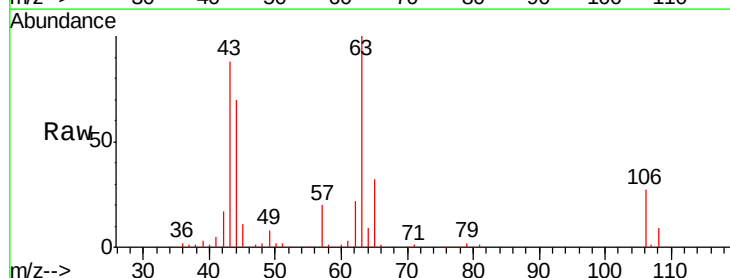
Acq: 21 Dec 2018 12:34

Tgt Ion: 63 Resp: 470698

Ion Ratio Lower Upper

63 100

106 26.6 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

8.96

250000

200000

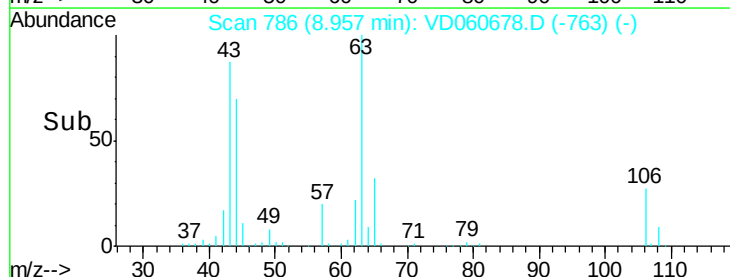
150000

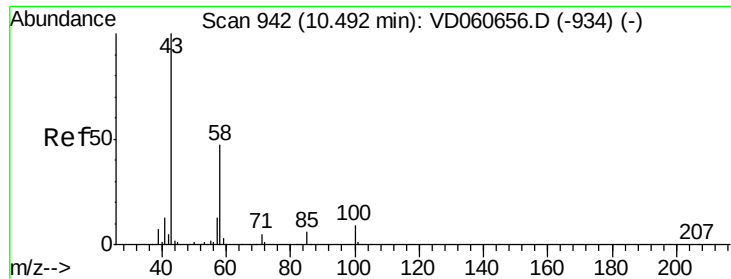
100000

50000

0

Time-->





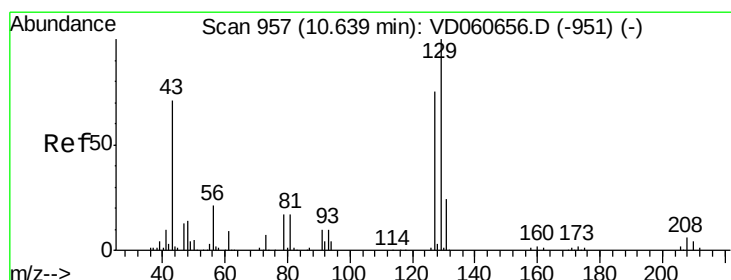
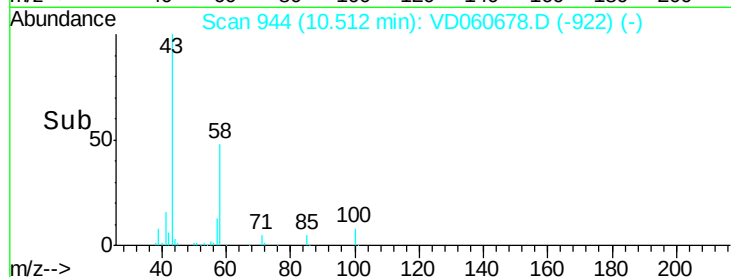
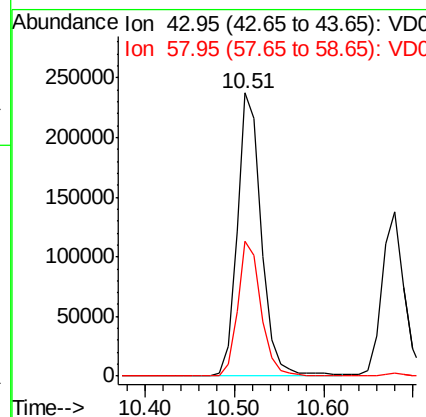
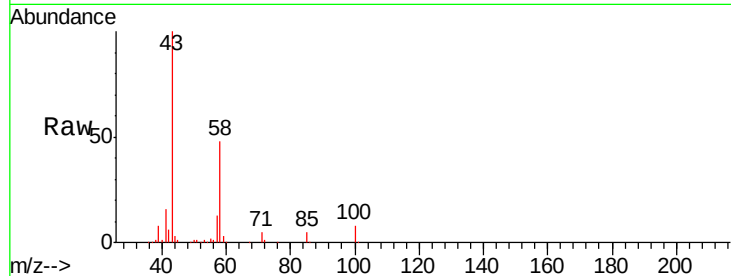
#59
2-Hexanone
Concen: 105.576 ug/l
RT: 10.51 min Scan# 944
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion: 43 Resp: 451657
Ion Ratio Lower Upper
43 100
58 47.8 23.5 70.5

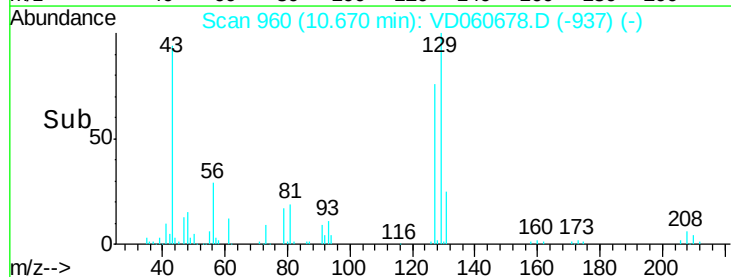
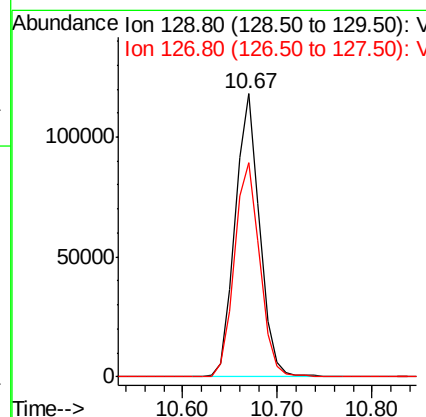
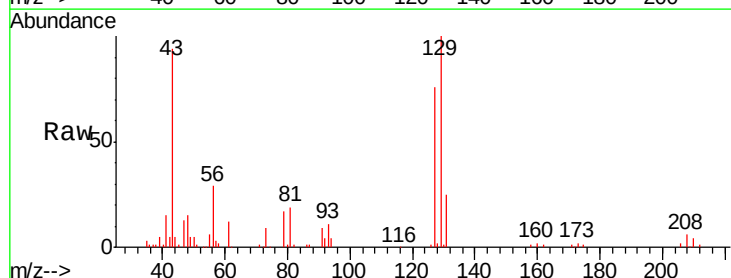
Manual Integrations
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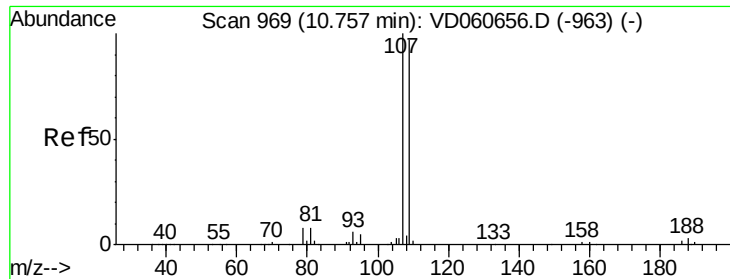
MMDadoda
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#60
Dibromochloromethane
Concen: 20.516 ug/l
RT: 10.67 min Scan# 960
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 129 Resp: 211623
Ion Ratio Lower Upper
129 100
127 75.7 37.6 112.9





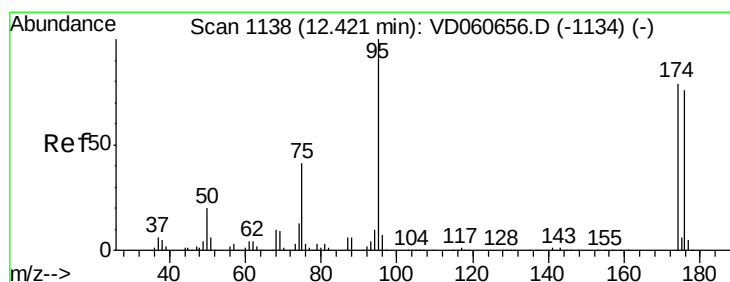
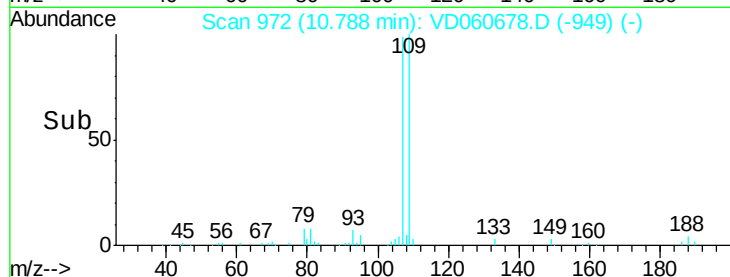
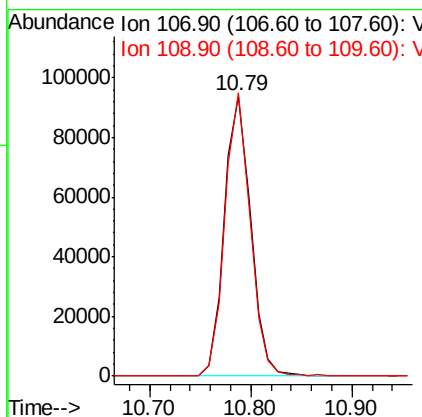
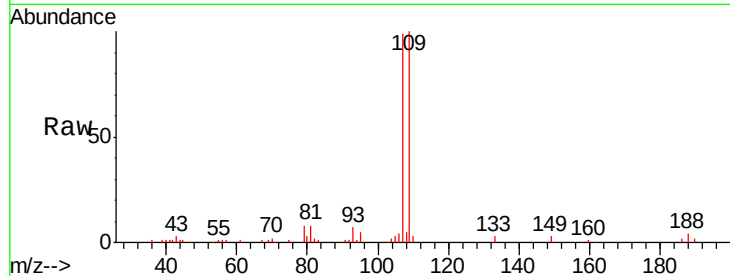
#61
 1,2-Dibromoethane
 Concen: 20.352 ug/l
 RT: 10.79 min Scan# 972
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion: 107 Resp: 170953
 Ion Ratio Lower Upper
 107 100
 109 101.1 78.0 117.0

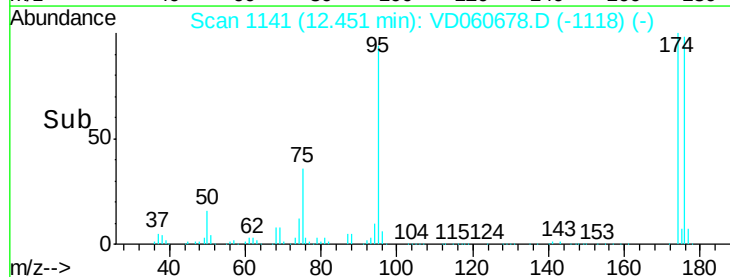
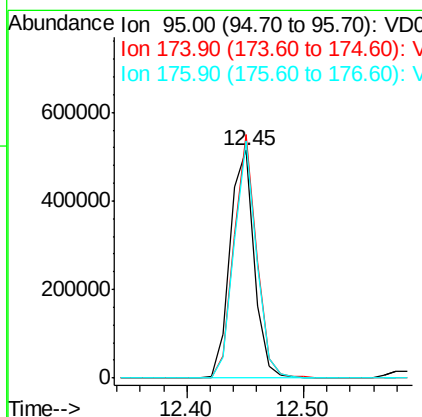
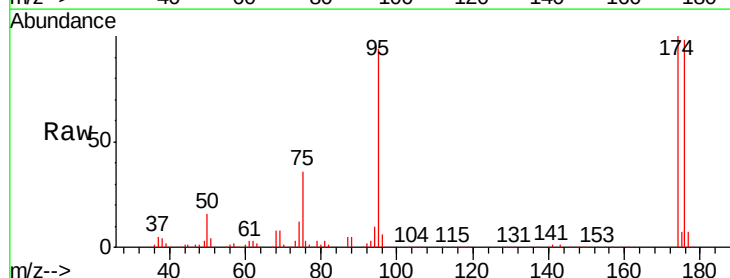
Manual Integrations
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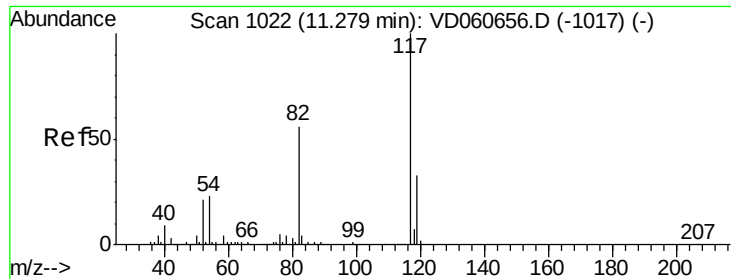
MMDadoda
 12/26/2018 10:57:43 AM



#62
 4-Bromofluorobenzene
 Concen: 20.352 ug/l
 RT: 12.45 min Scan# 1141
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 95 Resp: 741767
 Ion Ratio Lower Upper
 95 100
 174 106.9 0.0 158.2
 176 104.3 0.0 152.4





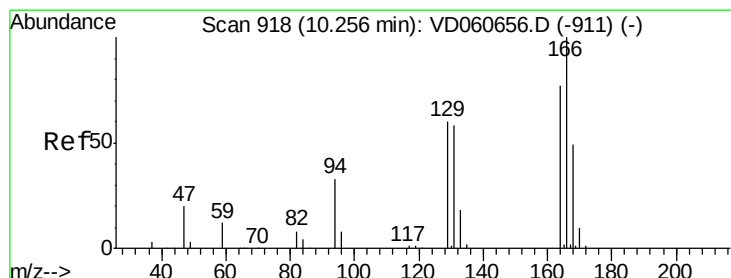
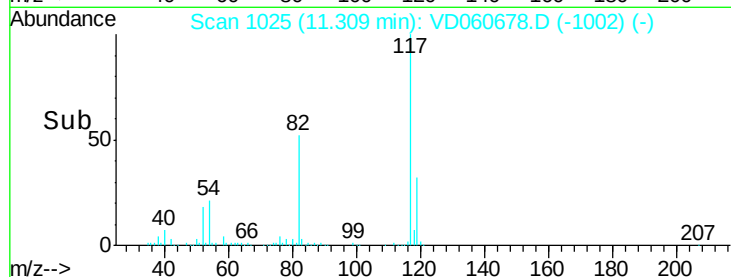
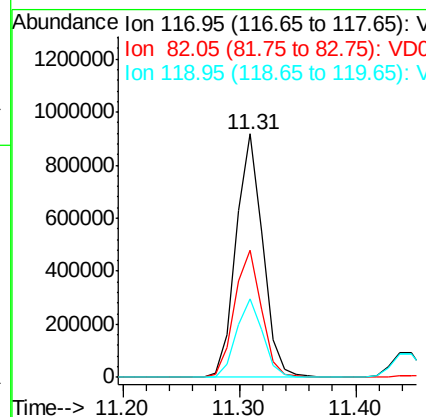
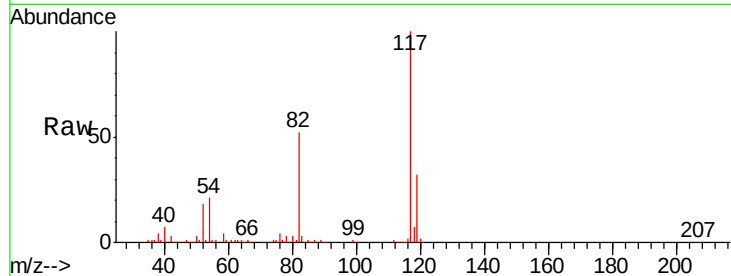
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.31 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion:117 Resp: 1455286
Ion Ratio Lower Upper
117 100
82 52.3 44.5 66.7
119 32.3 26.3 39.5

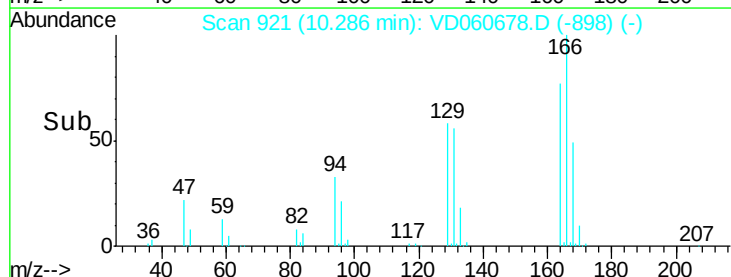
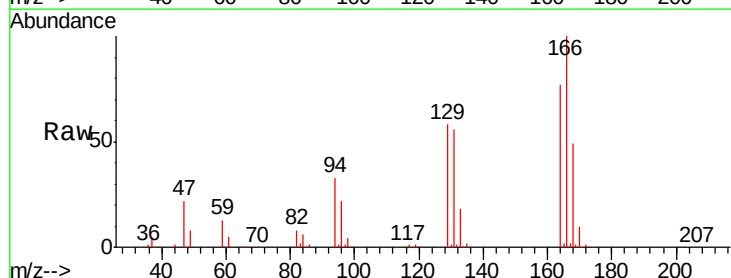
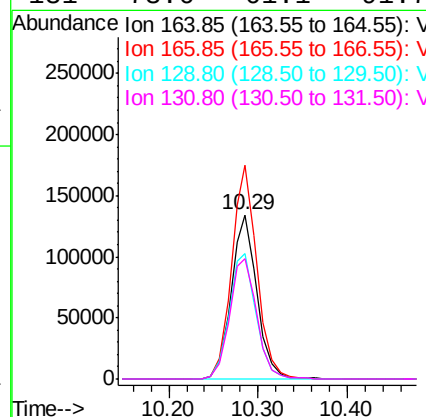
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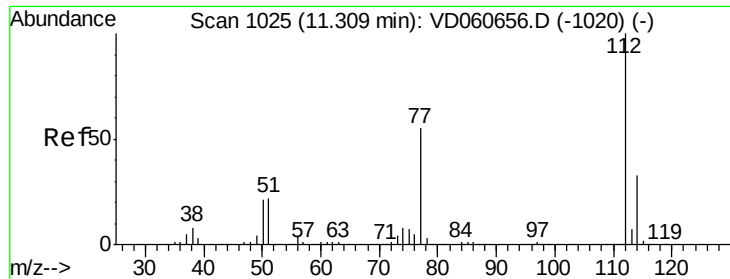
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#64
Tetrachloroethene
Concen: 20.579 ug/l
RT: 10.29 min Scan# 921
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion:164 Resp: 271441
Ion Ratio Lower Upper
164 100
166 130.4 104.4 156.6
129 76.2 62.7 94.1
131 73.6 61.1 91.7





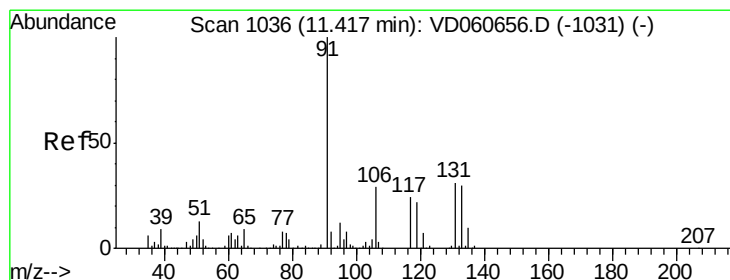
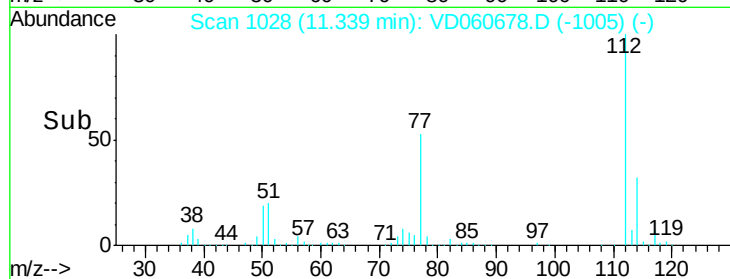
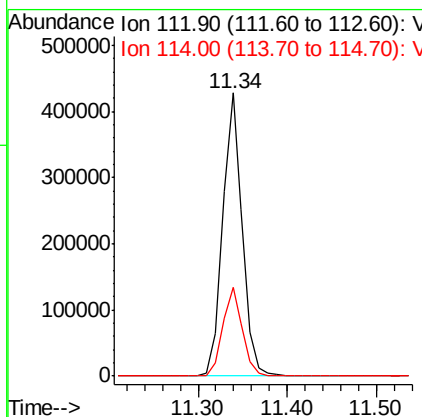
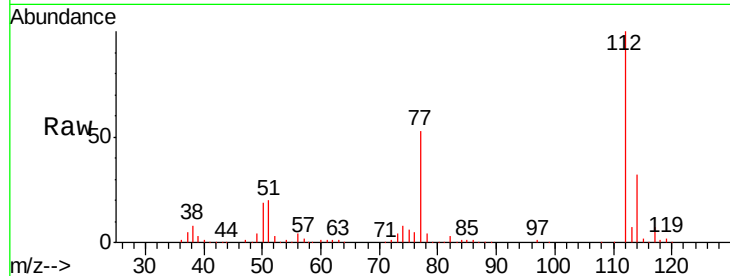
#65
Chlorobenzene
Concen: 20.598 ug/l
RT: 11.34 min Scan# 1028
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion:112 Resp: 662287
Ion Ratio Lower Upper
112 100
114 31.6 26.1 39.1

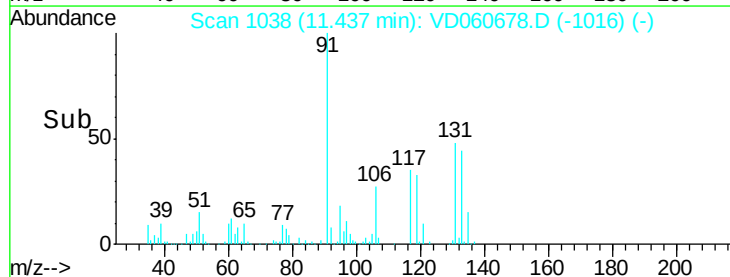
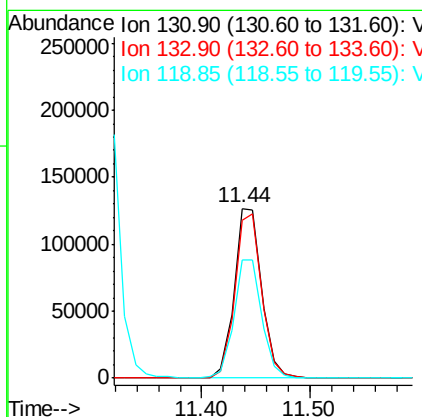
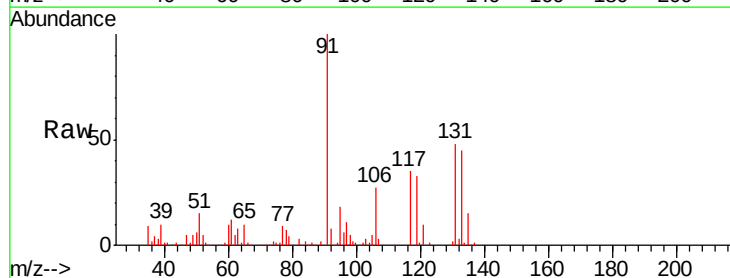
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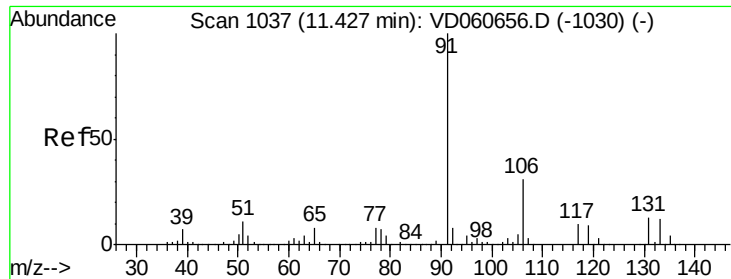
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.528 ug/l
RT: 11.44 min Scan# 1038
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion:131 Resp: 222558
Ion Ratio Lower Upper
131 100
133 93.1 49.1 147.3
119 69.4 36.6 109.8





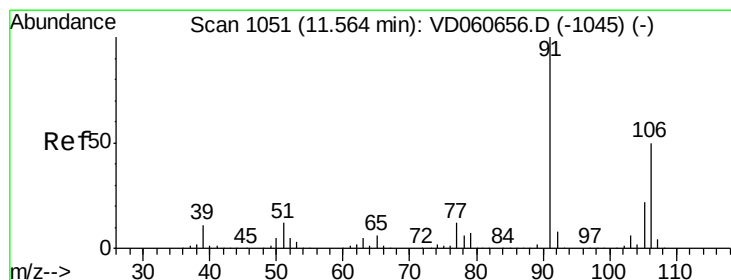
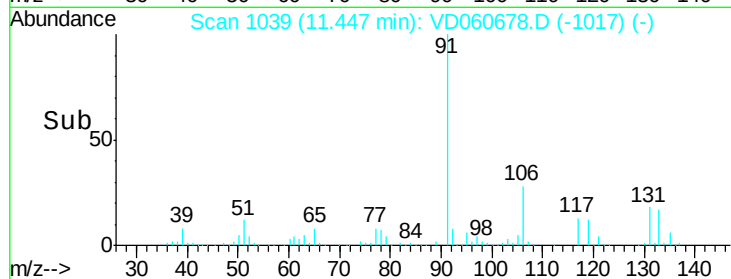
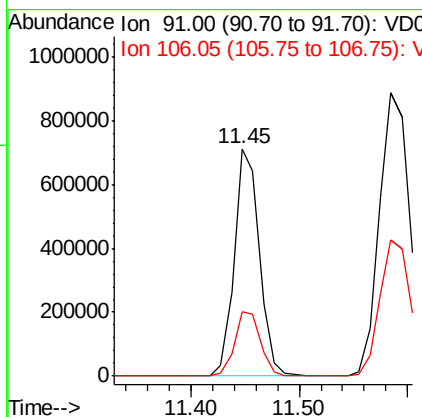
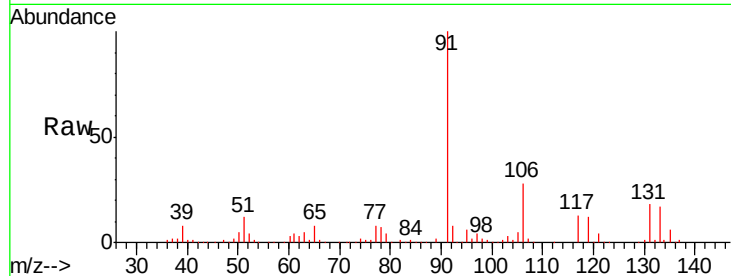
#67
Ethyl Benzene
Concen: 20.860 ug/l
RT: 11.45 min Scan# 1039
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion: 91 Resp: 1148661
Ion Ratio Lower Upper
91 100
106 28.2 24.6 36.8

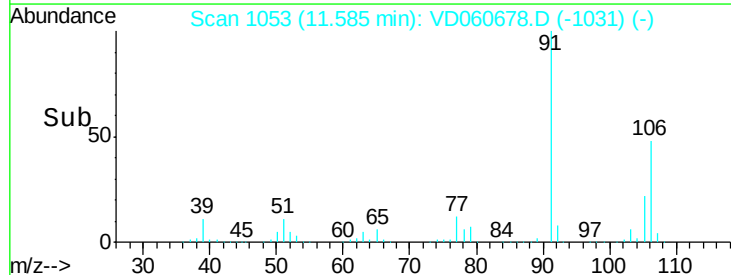
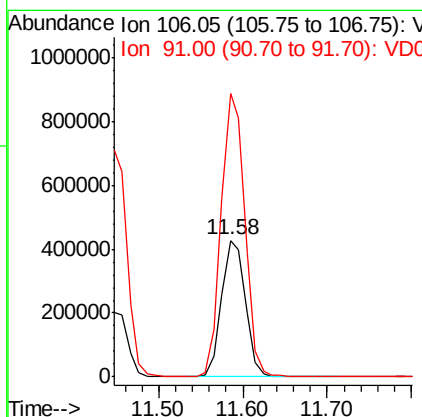
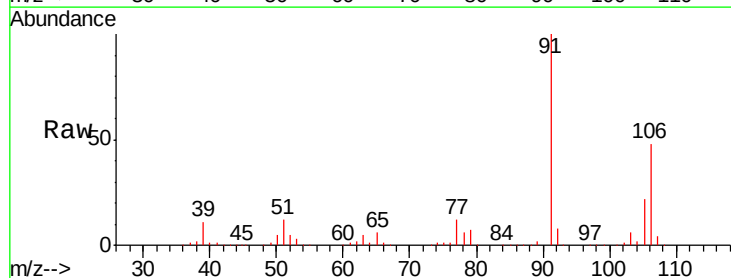
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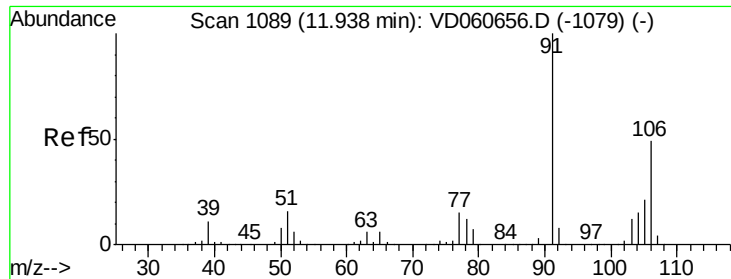
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#68
m/p-Xylenes
Concen: 41.479 ug/l
RT: 11.58 min Scan# 1053
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 106 Resp: 834694
Ion Ratio Lower Upper
106 100
91 207.4 158.9 238.3





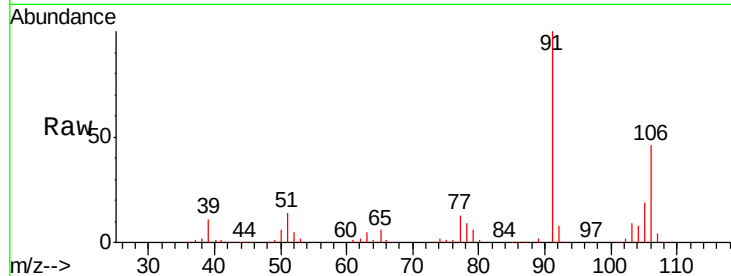
#69
o-Xylene
Concen: 20.712 ug/l
RT: 11.96 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

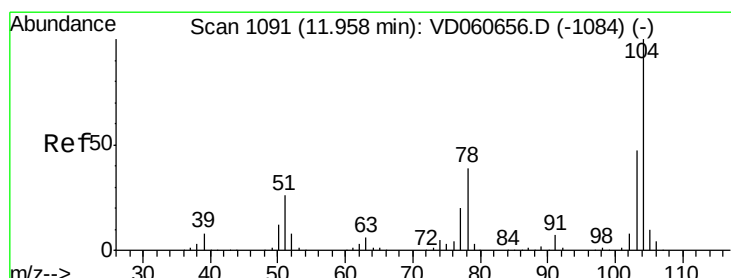
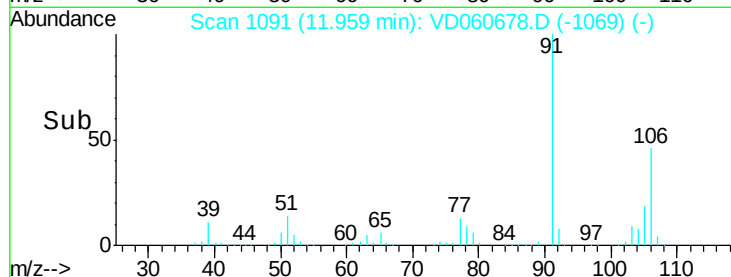
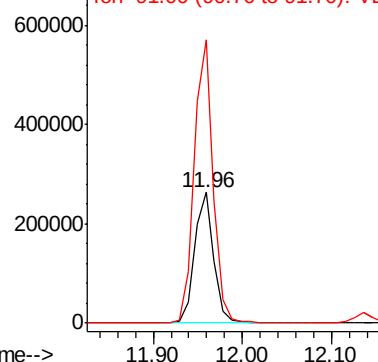
Tgt Ion:106 Resp: 395436
Ion Ratio Lower Upper
106 100
91 216.1 101.5 304.5

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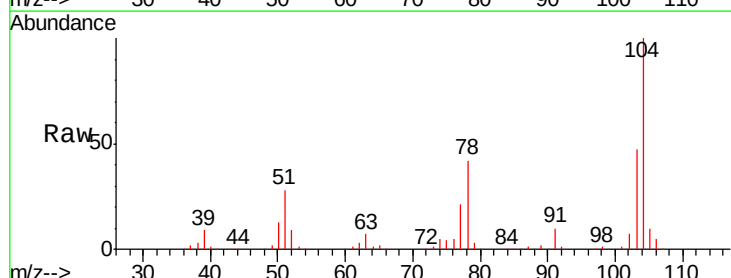


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

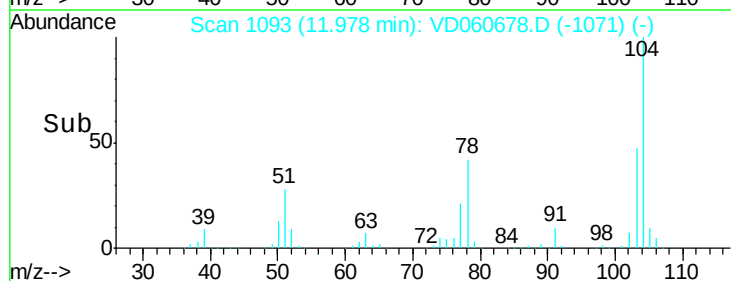
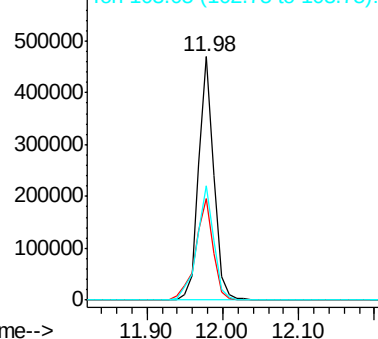


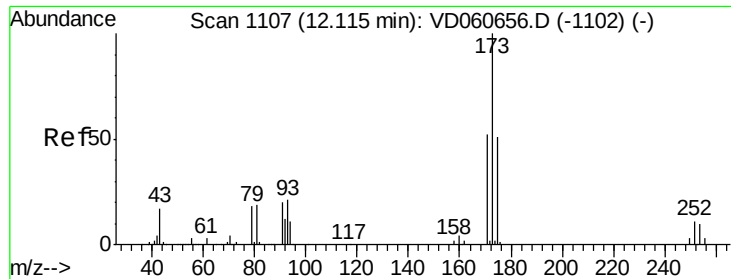
#70
Styrene
Concen: 21.088 ug/l
RT: 11.98 min Scan# 1093
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion:104 Resp: 648438
Ion Ratio Lower Upper
104 100
78 41.9 31.4 47.2
103 47.1 37.5 56.3



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





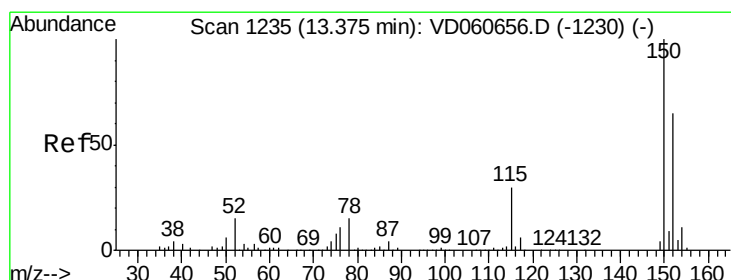
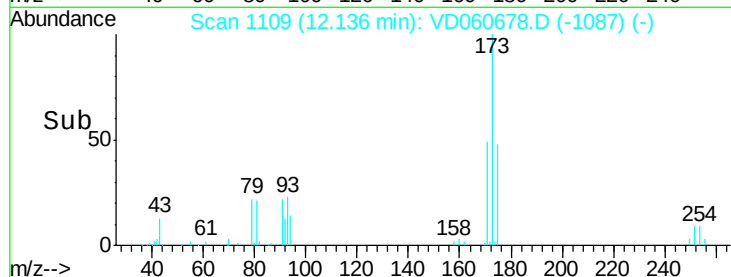
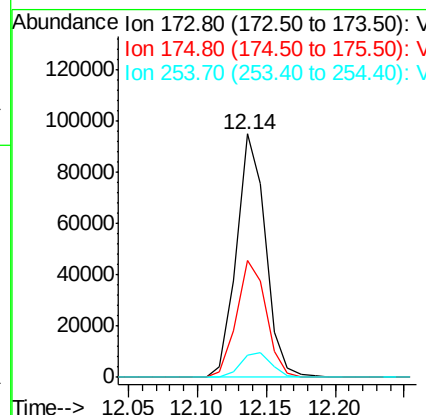
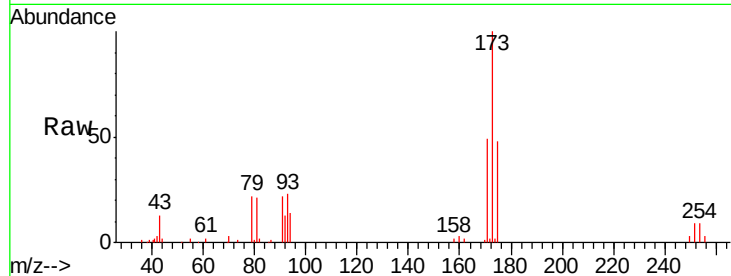
#71
Bromoform
Concen: 20.364 ug/l
RT: 12.14 min Scan# 1109
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.2	25.5	76.5
254	9.0	7.9	11.9

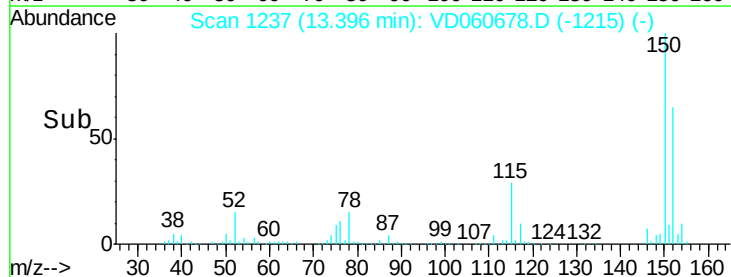
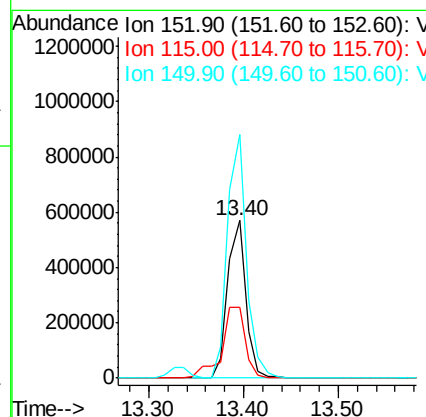
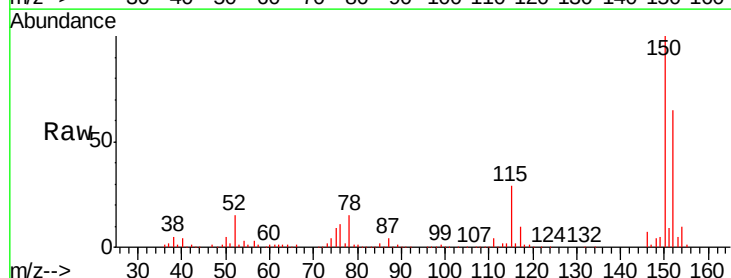
Manual Integrations
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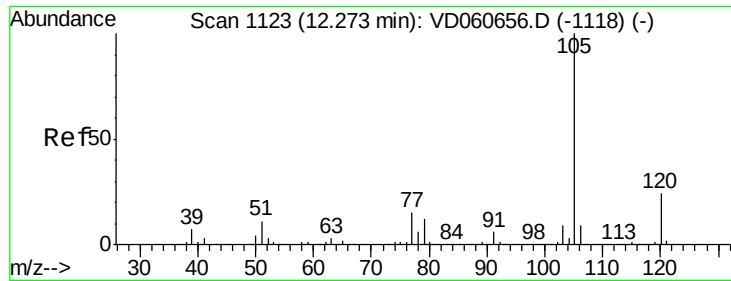
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.40 min Scan# 1237
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	45.0	24.1	72.3
150	154.3	0.0	315.0





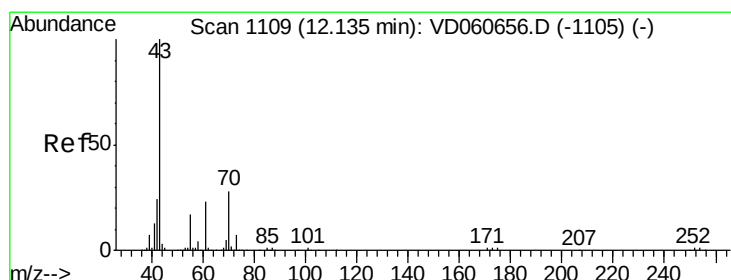
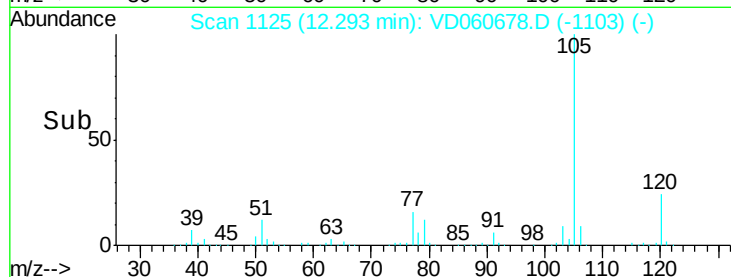
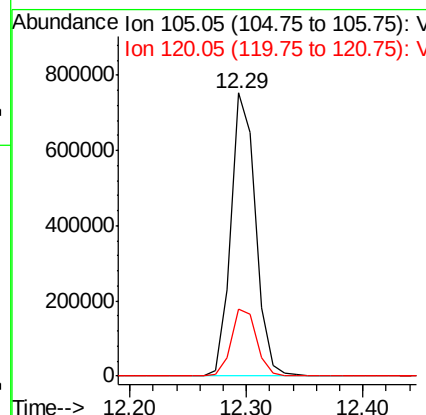
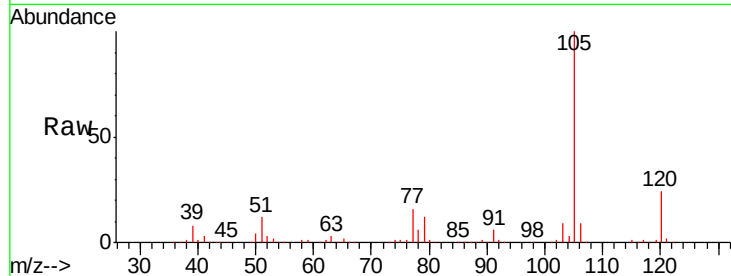
#73
Isopropylbenzene
Concen: 20.430 ug/l
RT: 12.29 min Scan# 1125
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion: 105 Resp: 1106302
Ion Ratio Lower Upper
105 100
120 23.9 12.2 36.4

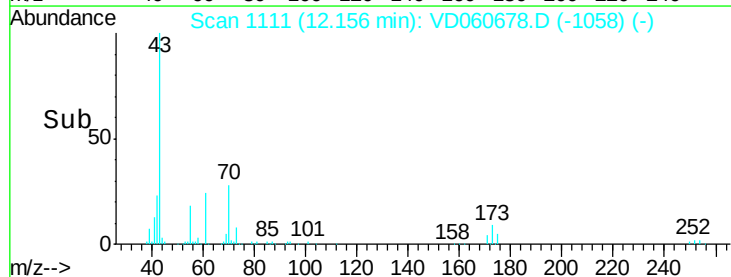
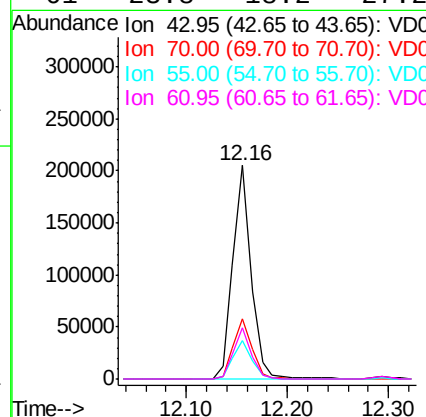
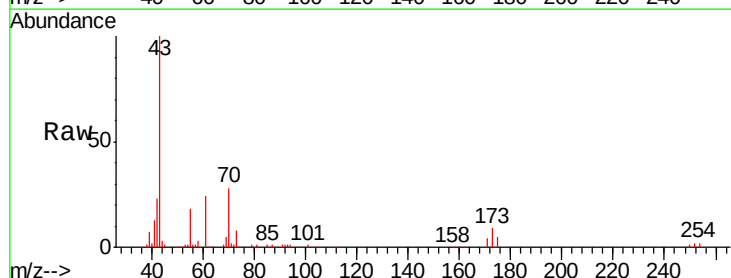
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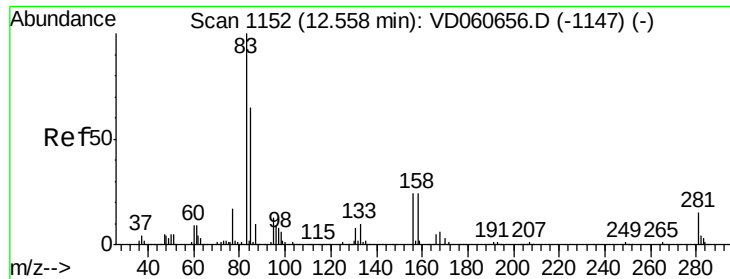
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12/26/2018 10:57:43 AM



#74
N-ethyl acetate
Concen: 20.357 ug/l
RT: 12.16 min Scan# 1111
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 43 Resp: 260166
Ion Ratio Lower Upper
43 100
70 28.2 22.2 33.2
55 18.0 13.8 20.8
61 23.8 18.2 27.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.082 ug/l

RT: 12.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

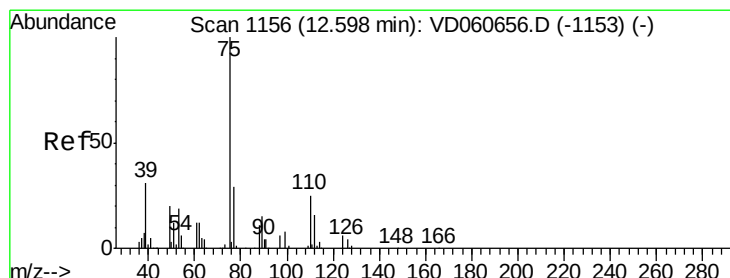
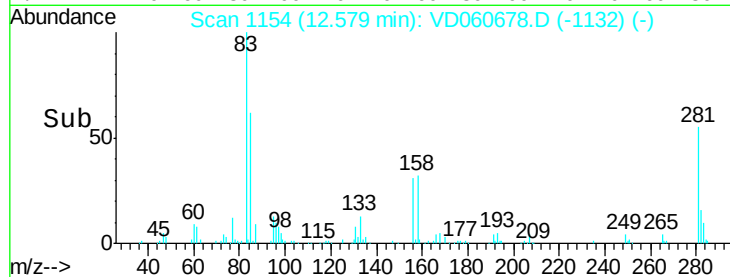
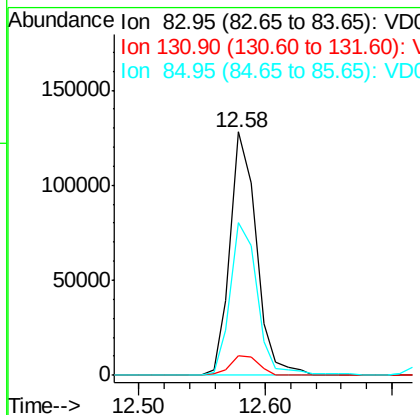
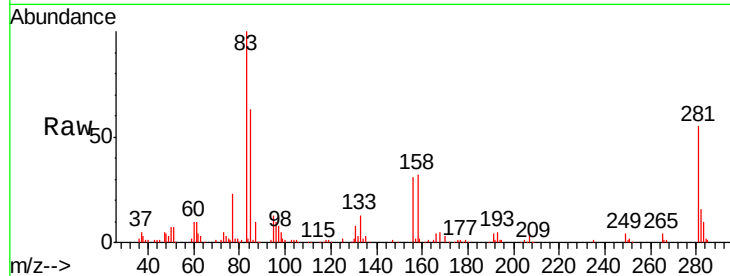
ClientSampleId :

VD1221SBS01

Tgt Ion:	83	Resp:	185040
Ion Ratio	Lower	Upper	
83	100		
131	8.0	4.2	12.4
85	62.6	32.6	97.7

Manual Integrations
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12/26/2018 10:57:43 AM



#76

1,2,3-Trichloropropane

Concen: 21.113 ug/l

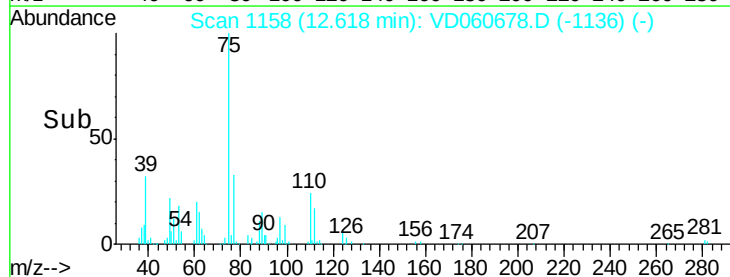
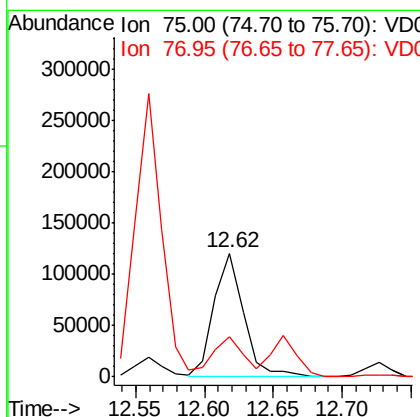
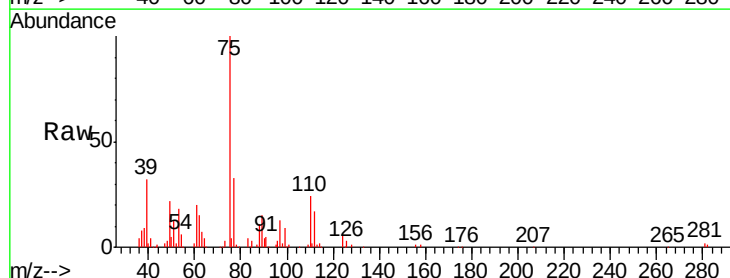
RT: 12.62 min Scan# 1158

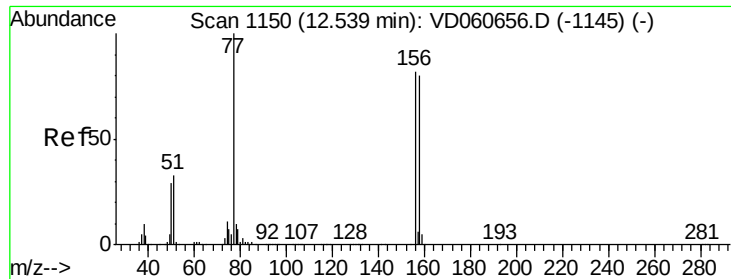
Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion:	75	Resp:	182815
Ion Ratio	Lower	Upper	
75	100		
77	32.9	16.7	50.0





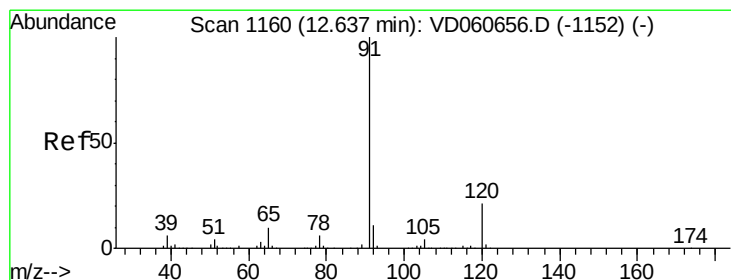
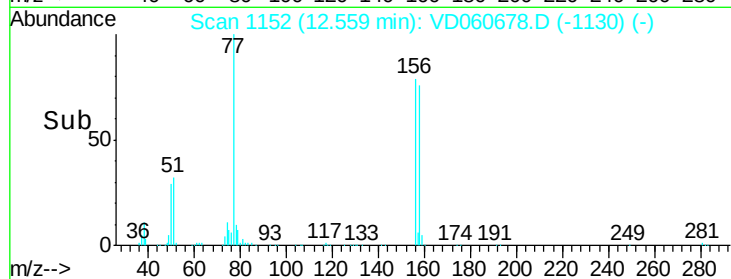
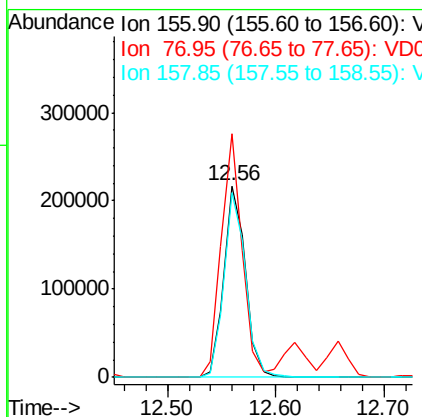
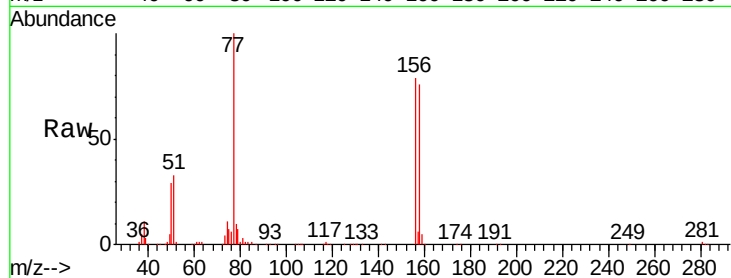
#77
Bromobenzene
Concen: 21.106 ug/l
RT: 12.56 min Scan# 1152
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	127.0	61.3	183.9
158	96.6	48.9	146.6

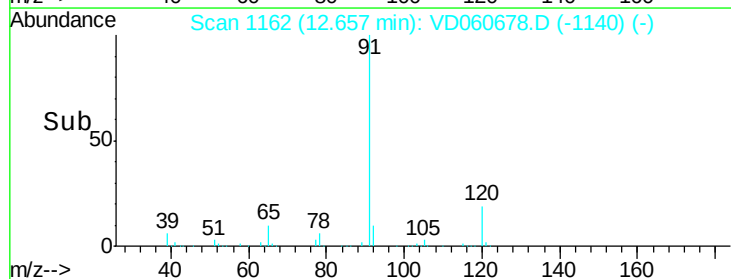
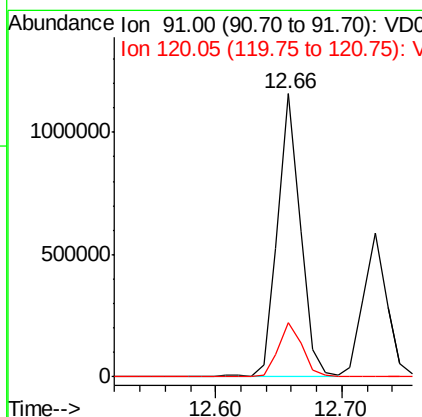
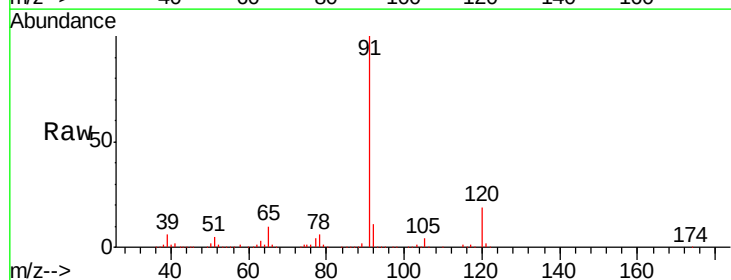
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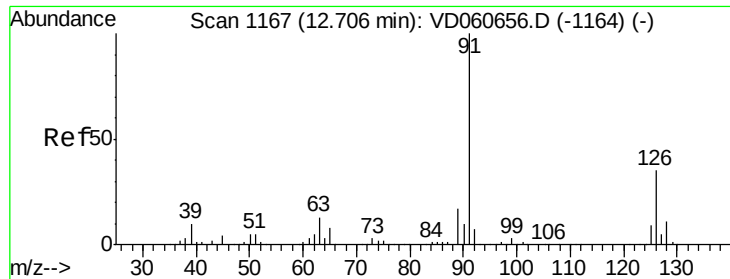
MMDadoda
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#78
n-propylbenzene
Concen: 21.214 ug/l
RT: 12.66 min Scan# 1162
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.3	10.4	31.2





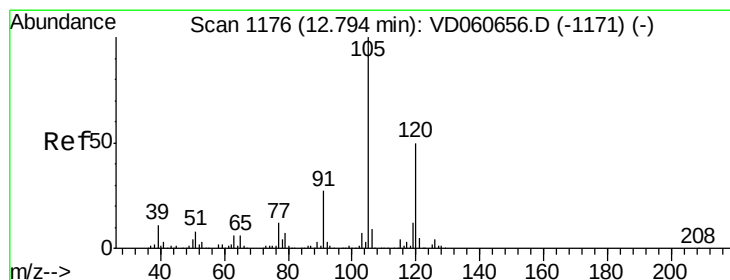
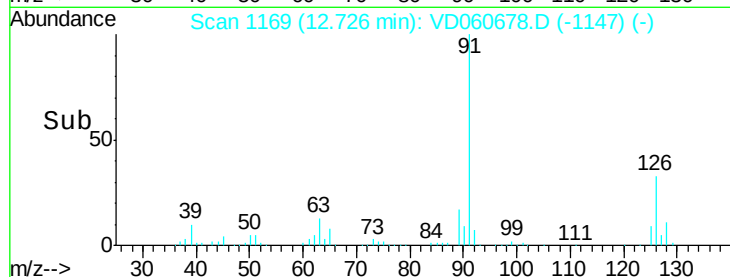
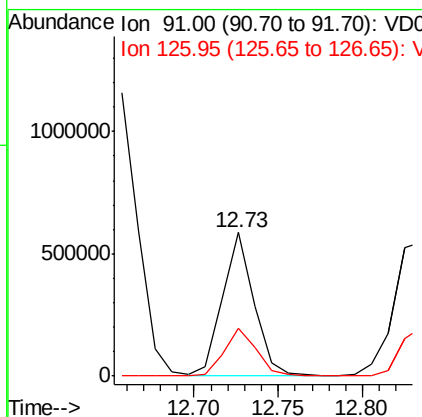
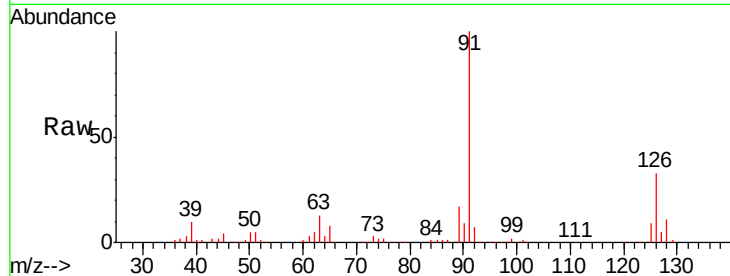
#79
 2-Chlorotoluene
 Concen: 20.250 ug/l
 RT: 12.73 min Scan# 1169
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion: 91 Resp: 750850
 Ion Ratio Lower Upper
 91 100
 126 33.4 17.2 51.5

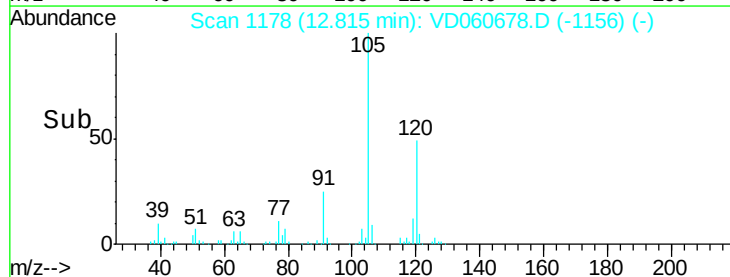
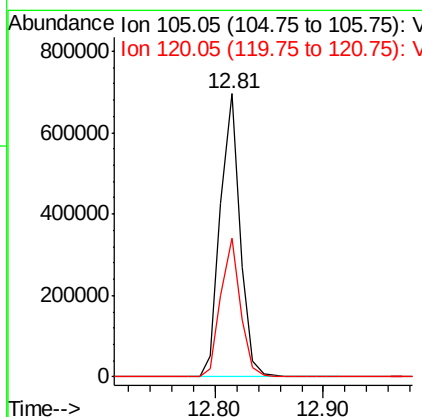
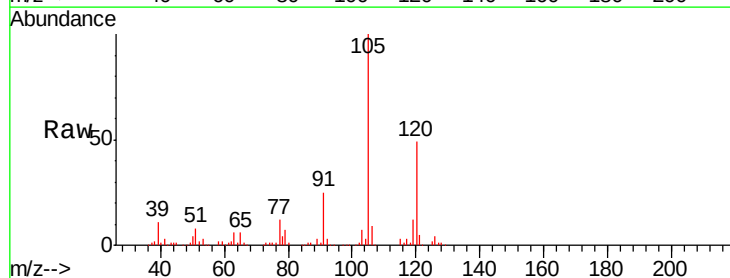
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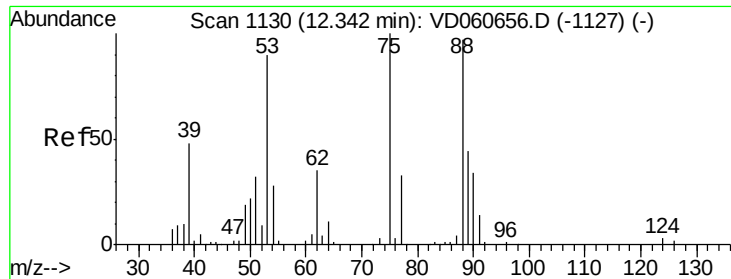
MMDadoda
 12/26/2018 10:57:43 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 21.109 ug/l
 RT: 12.81 min Scan# 1178
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 105 Resp: 882675
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.8 74.4





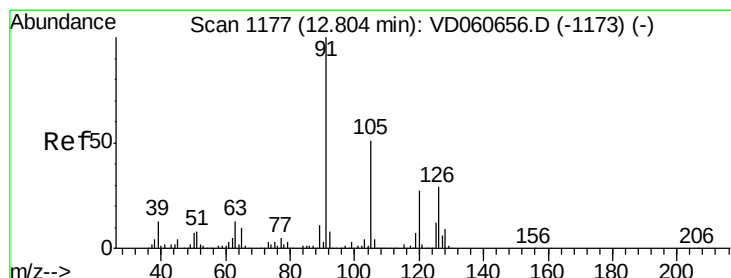
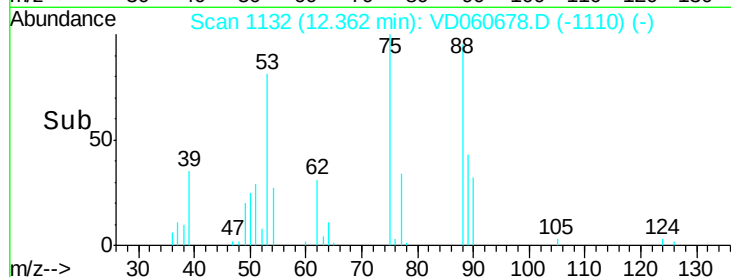
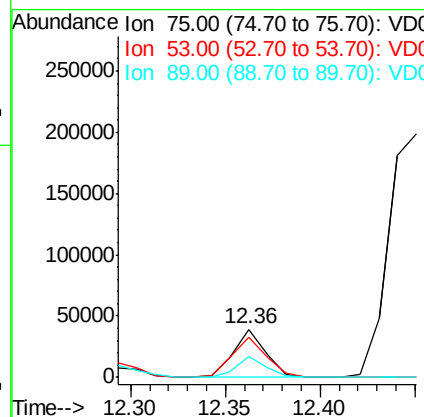
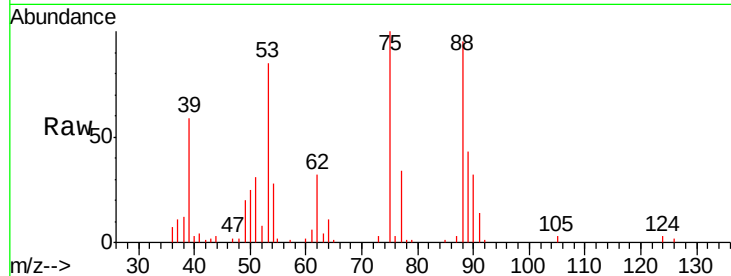
#81
trans-1,4-Dichloro-2-butene
Concen: 19.584 ug/l
RT: 12.36 min Scan# 1132
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	84.5	72.1	108.1
89	42.8	35.1	52.7

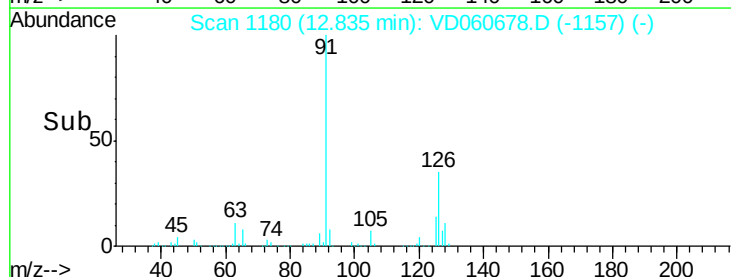
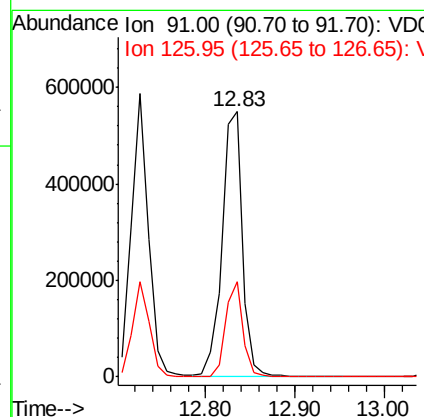
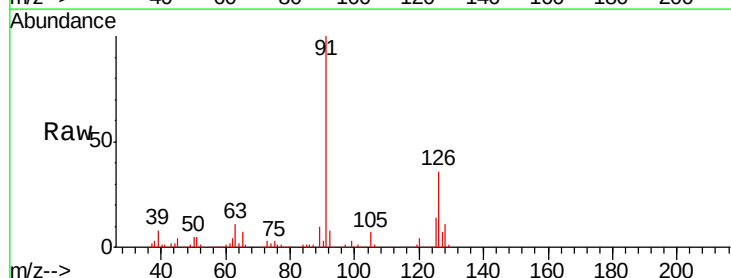
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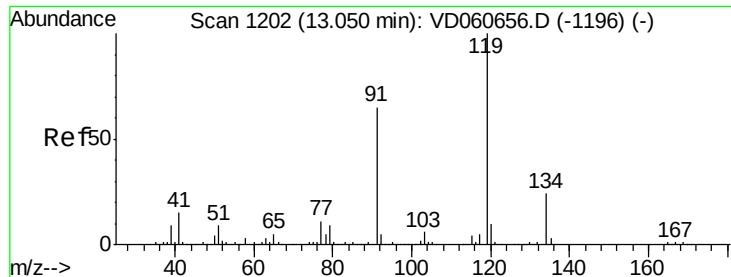
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#82
4-Chlorotoluene
Concen: 20.954 ug/l
RT: 12.83 min Scan# 1180
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.9	14.6	43.8





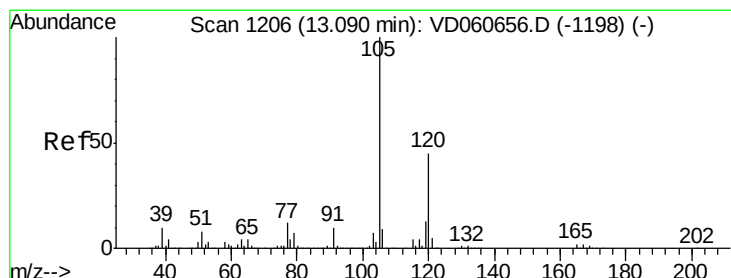
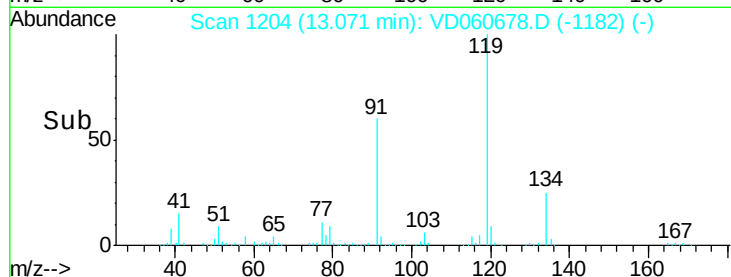
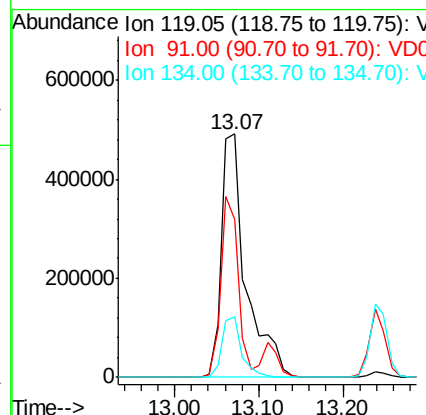
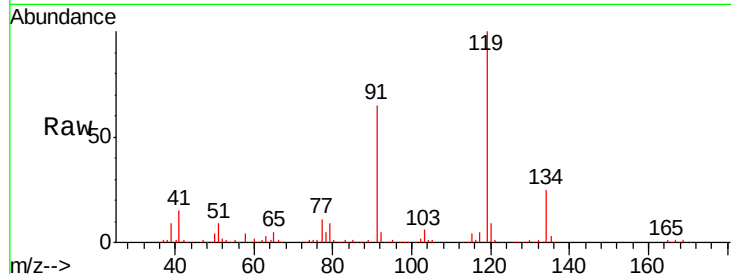
#83
 tert-Butylbenzene
 Concen: 20.982 ug/l
 RT: 13.07 min Scan# 1204
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	998495		
91	64.8	32.5	97.4	
134	24.9	11.9	35.9	

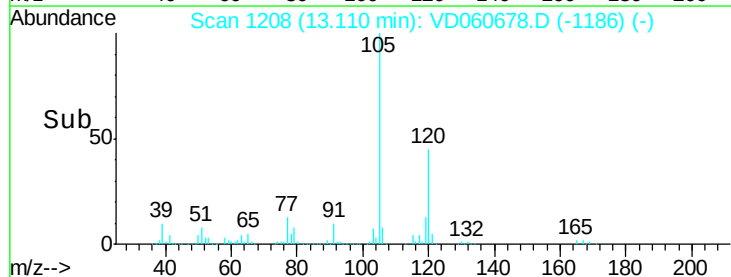
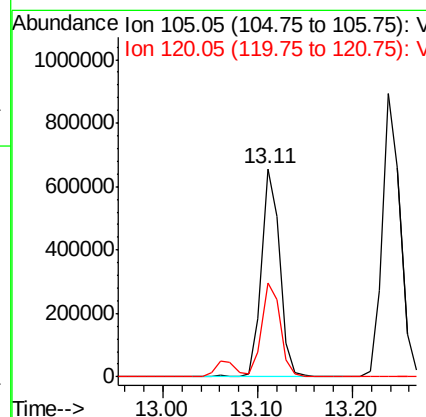
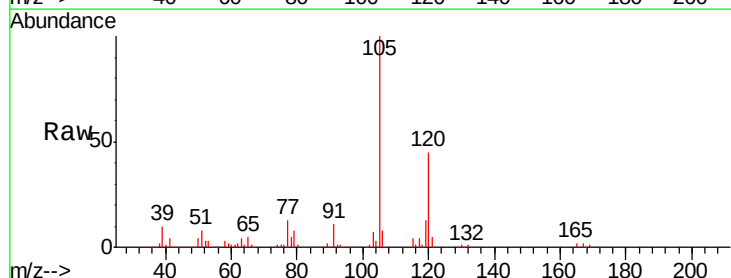
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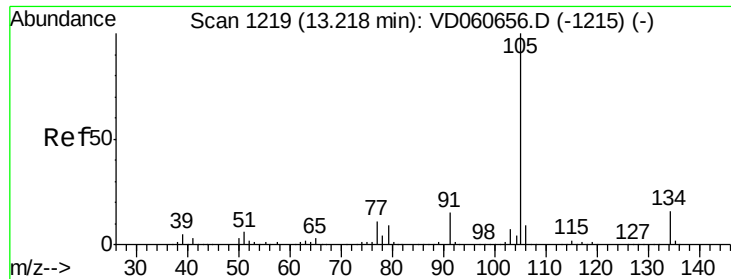
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.614 ug/l
 RT: 13.11 min Scan# 1208
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	887777		
120	45.2	22.4	67.0	





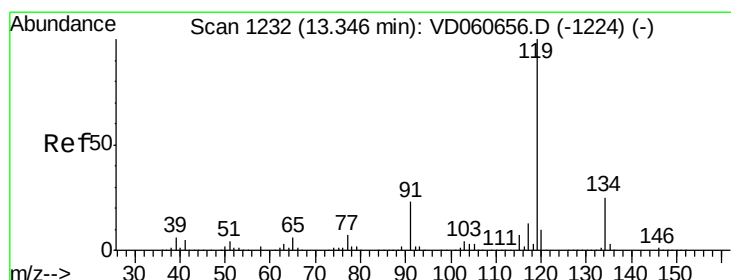
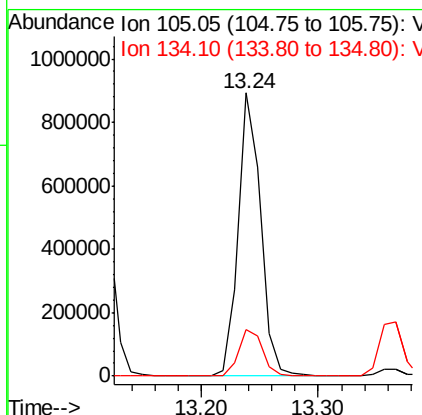
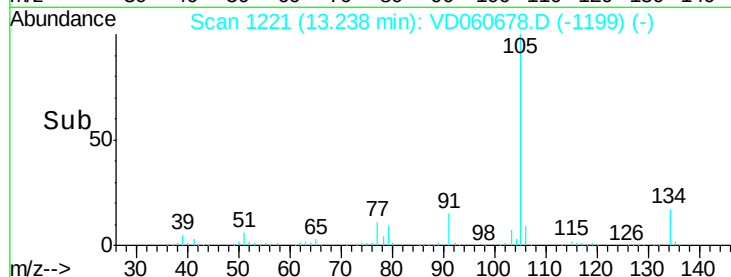
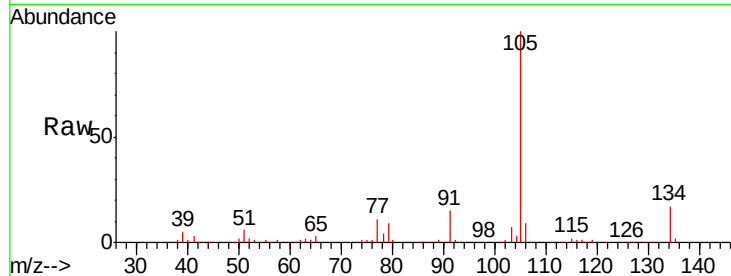
#85
 sec-Butylbenzene
 Concen: 20.411 ug/l
 RT: 13.24 min Scan# 1221
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion:105 Resp: 1184564
 Ion Ratio Lower Upper
 105 100
 134 16.6 8.2 24.4

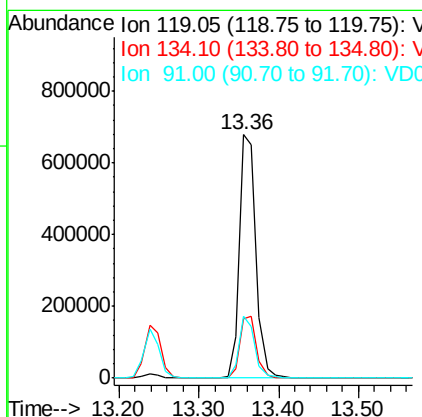
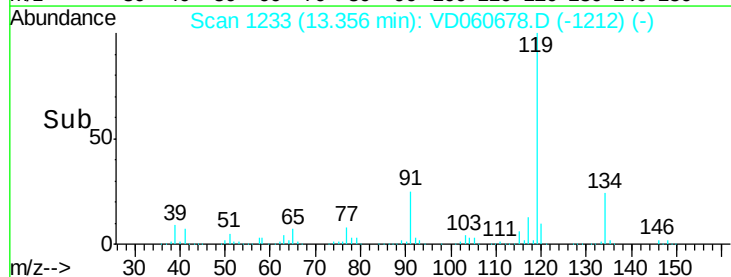
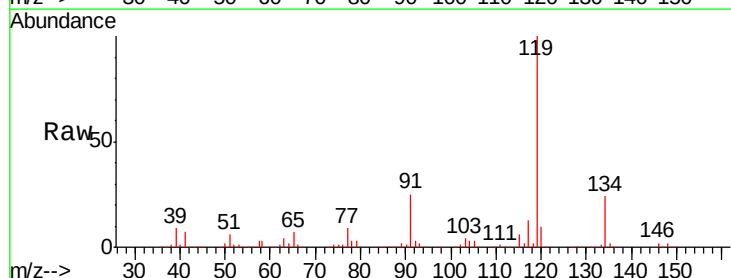
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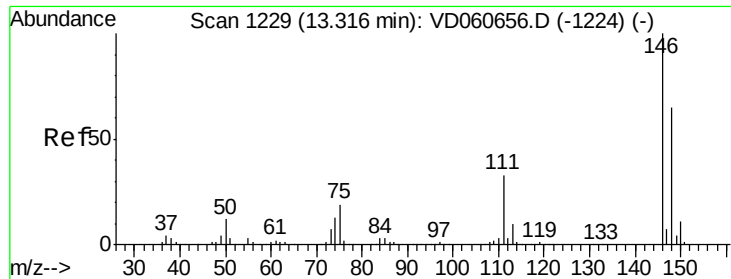
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#86
 p-Isopropyltoluene
 Concen: 20.906 ug/l
 RT: 13.36 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion:119 Resp: 979387
 Ion Ratio Lower Upper
 119 100
 134 24.2 12.5 37.5
 91 25.2 11.4 34.2





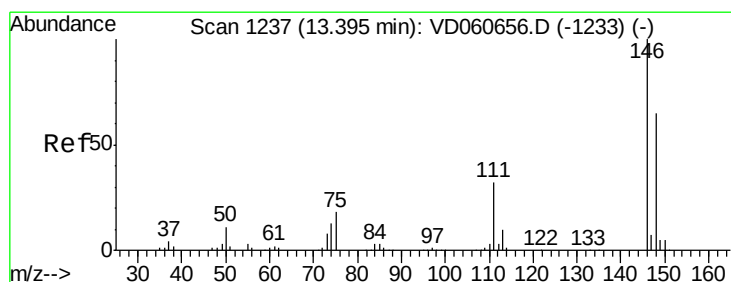
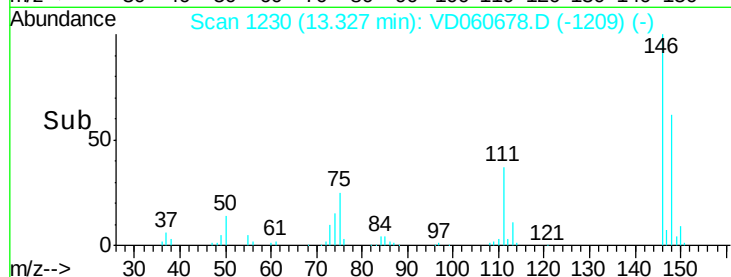
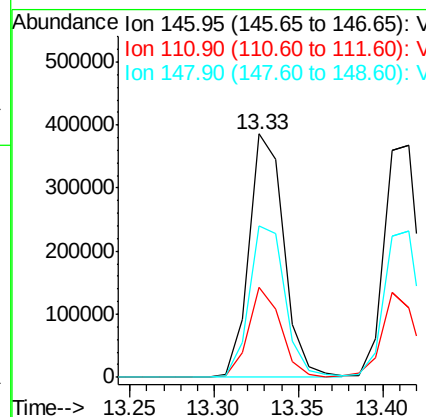
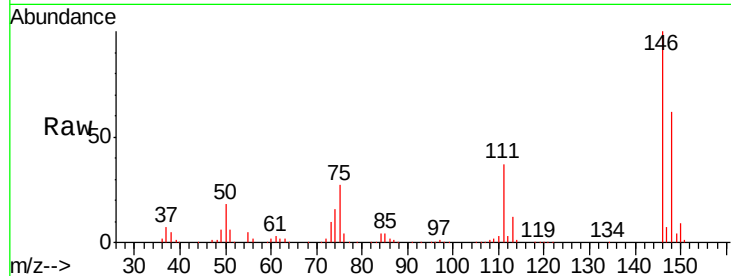
#87
 1,3-Dichlorobenzene
 Concen: 21.108 ug/l
 RT: 13.33 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	16.6	49.8
148	62.2	32.6	97.8

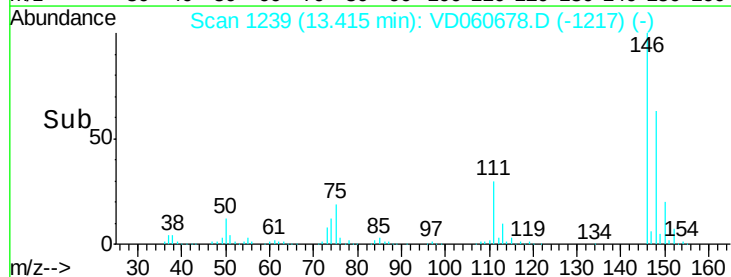
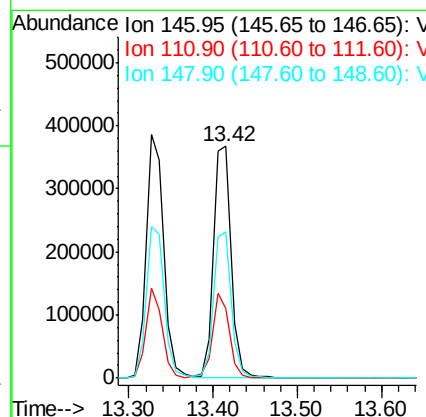
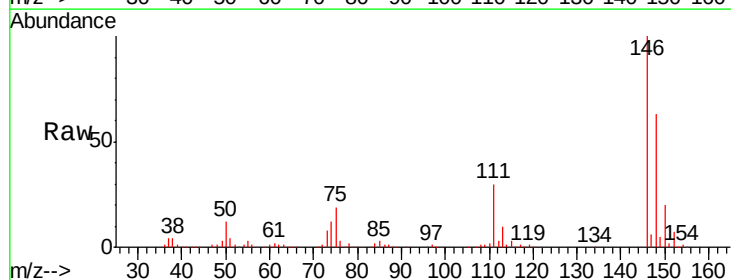
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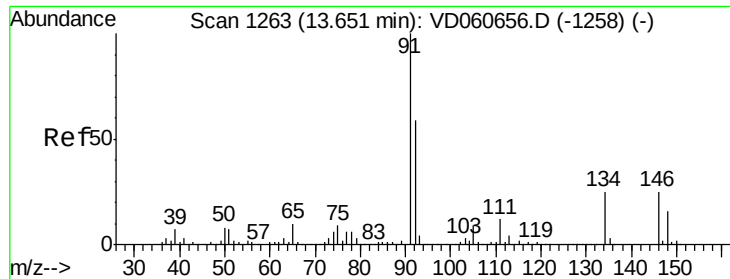
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#88
 1,4-Dichlorobenzene
 Concen: 20.628 ug/l
 RT: 13.42 min Scan# 1239
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	29.9	16.2	48.5
148	63.4	32.7	98.1





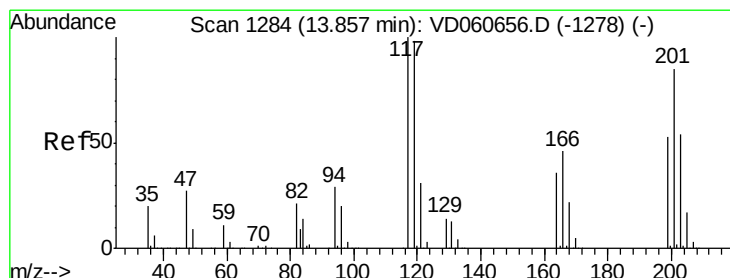
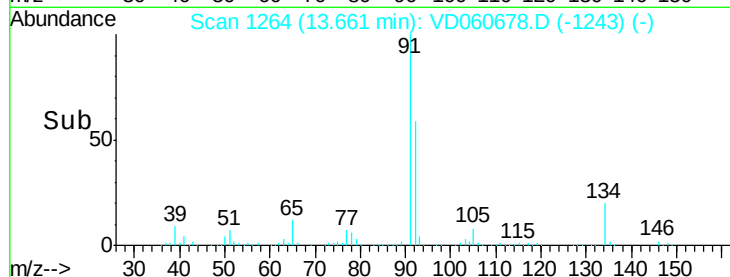
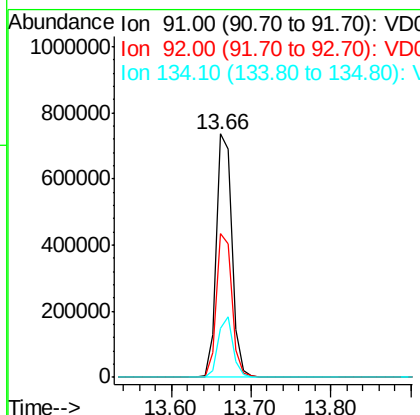
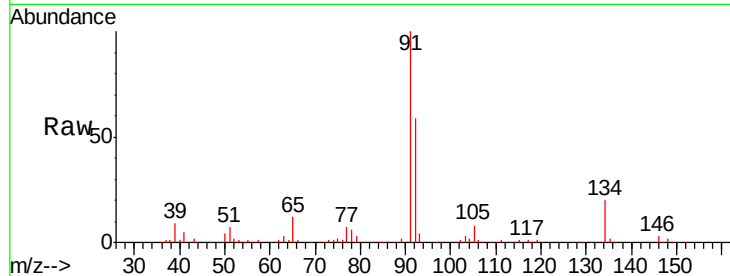
#89
n-Butylbenzene
Concen: 21.536 ug/l
RT: 13.66 min Scan# 1264
Delta R.T. 0.01 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion: 91 Resp: 1030961
Ion Ratio Lower Upper
91 100
92 59.2 29.7 89.1
134 19.9 12.7 38.1

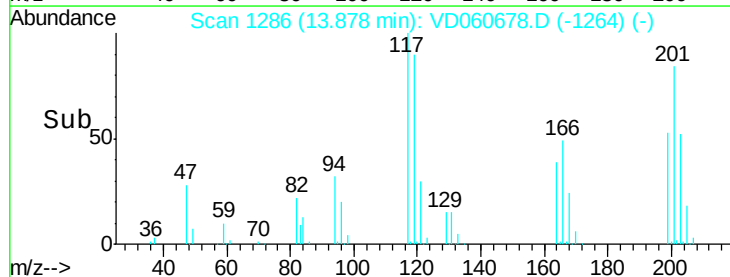
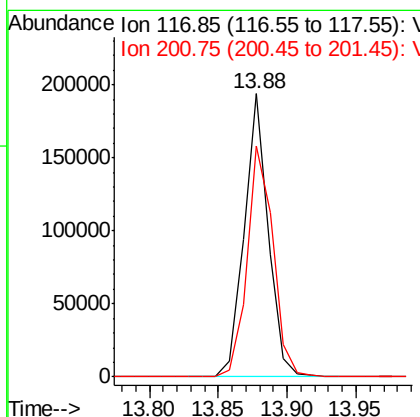
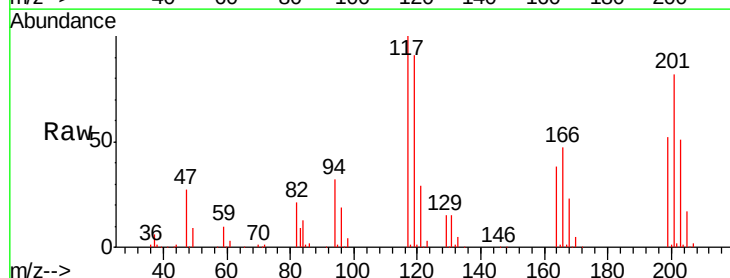
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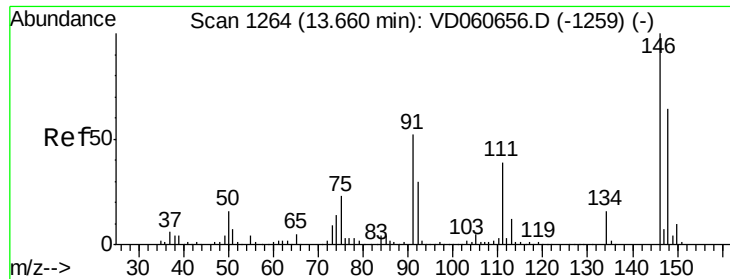
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#90
Hexachloroethane
Concen: 20.454 ug/l
RT: 13.88 min Scan# 1286
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 117 Resp: 235401
Ion Ratio Lower Upper
117 100
201 81.8 42.6 127.8





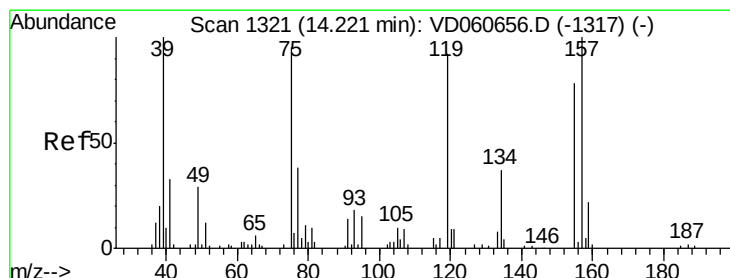
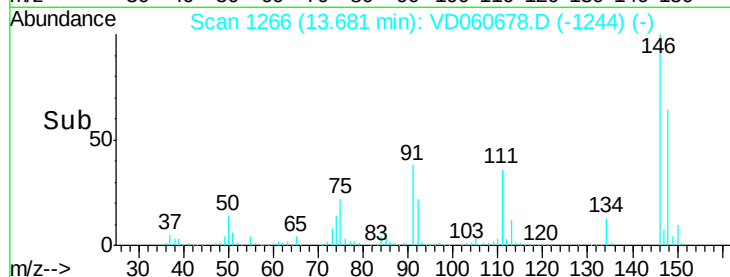
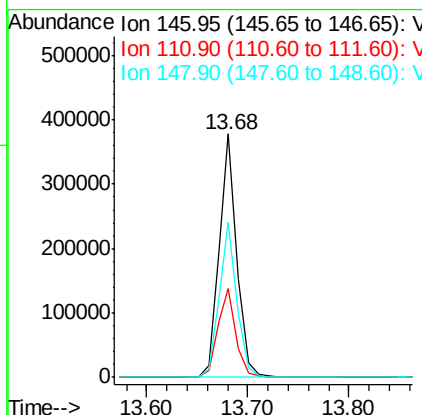
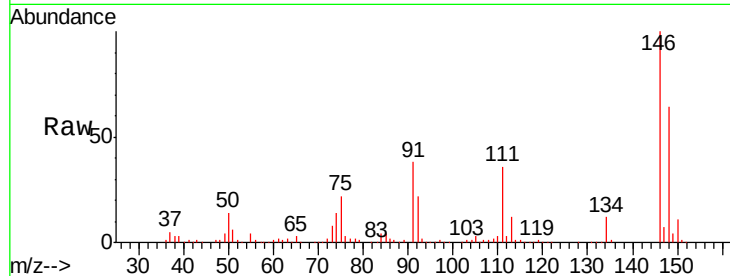
#91
 1,2-Dichlorobenzene
 Concen: 22.087 ug/l
 RT: 13.68 min Scan# 1266
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	19.3	57.9
148	64.0	31.9	95.9

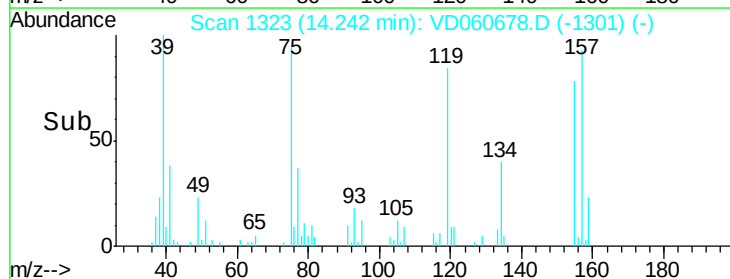
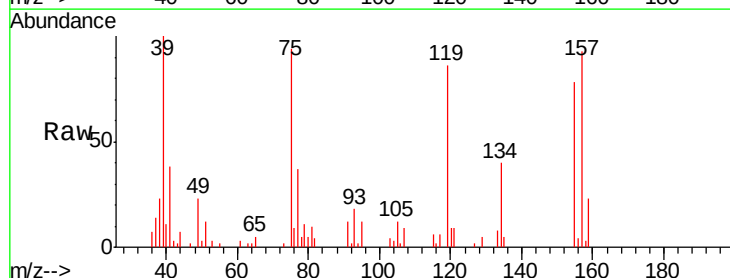
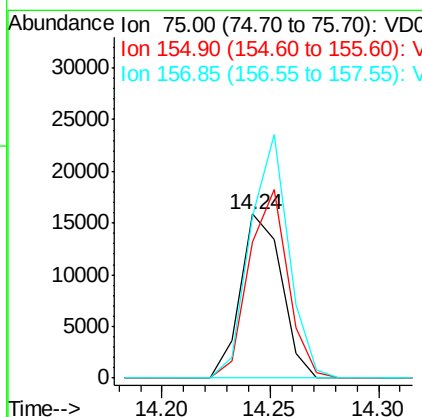
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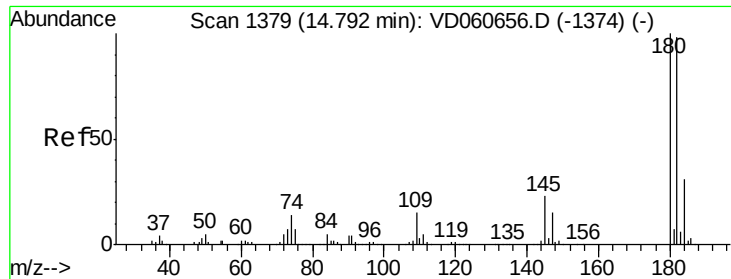
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.150 ug/l
 RT: 14.24 min Scan# 1323
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.0	41.1	123.4
157	98.5	52.5	157.6





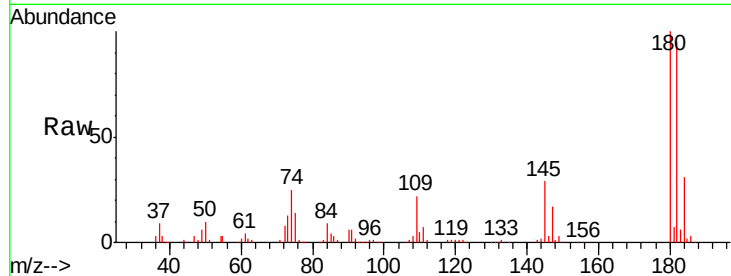
#93
 1,2,4-Trichlorobenzene
 Concen: 21.270 ug/l
 RT: 14.80 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

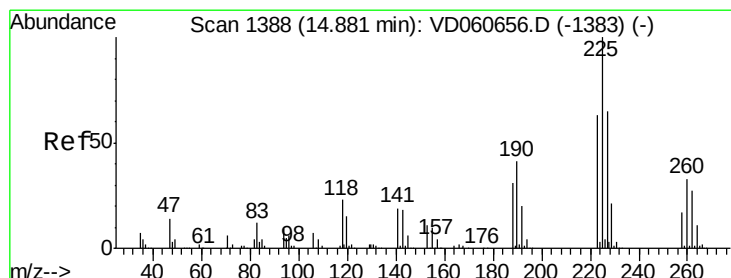
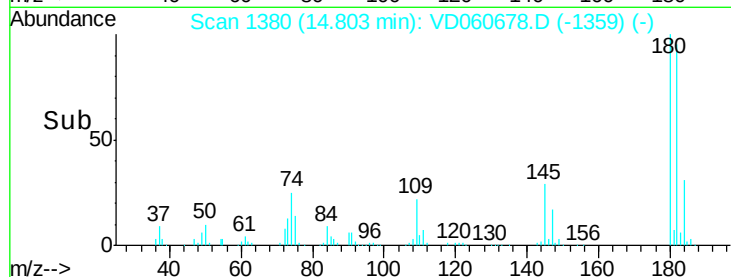
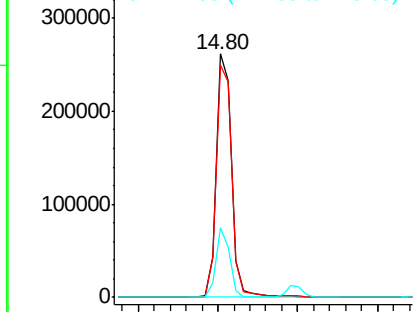
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	356317		
182	95.3	48.8	146.4	
145	28.6	11.8	35.3	

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 12/26/2018 10:57:43 AM

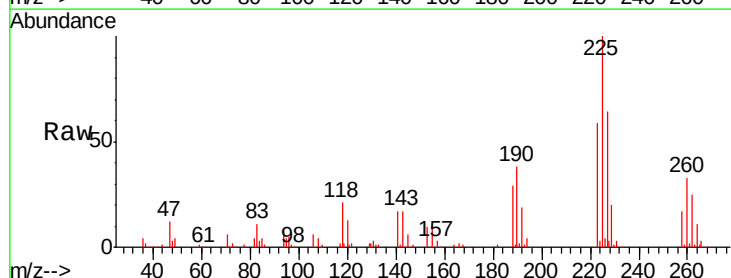


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

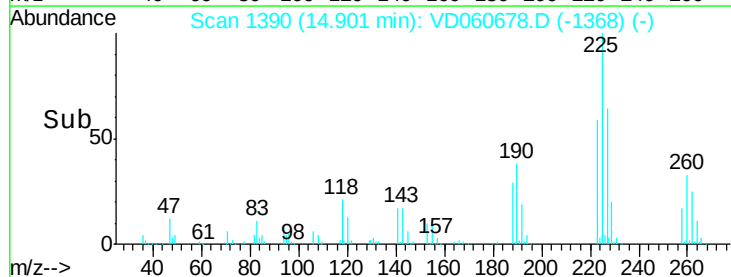
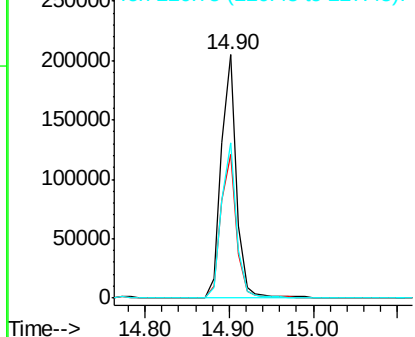


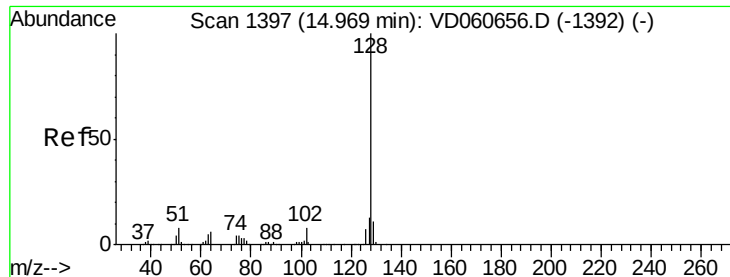
#94
 Hexachlorobutadiene
 Concen: 20.825 ug/l
 RT: 14.90 min Scan# 1390
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	257865		
223	59.0	31.3	93.8	
227	63.7	32.5	97.4	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





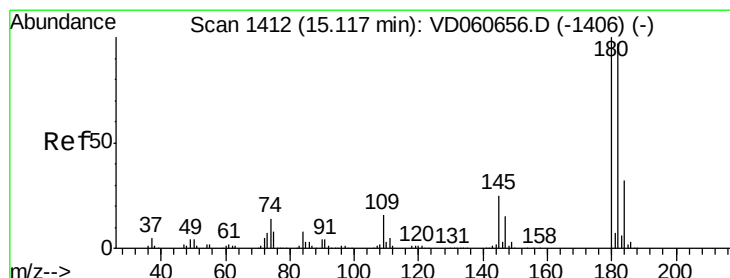
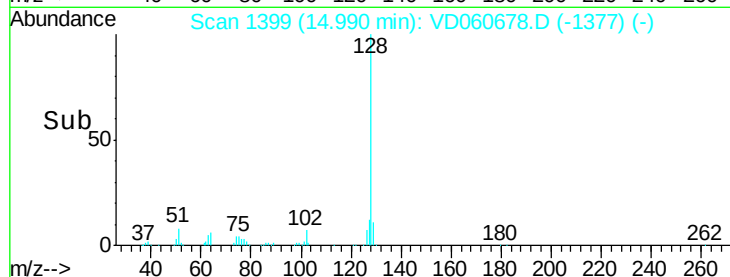
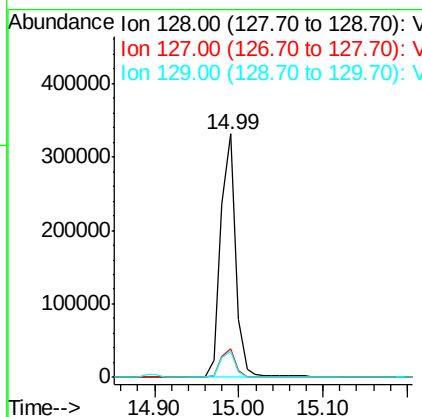
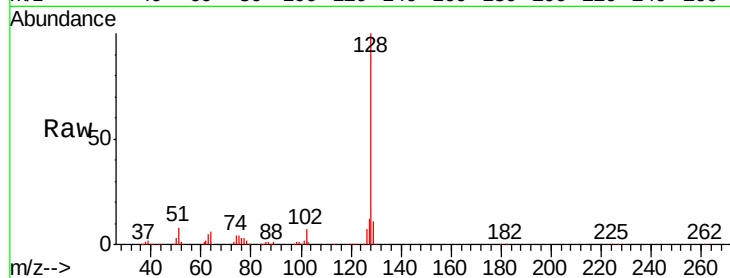
#95
Naphthalene
Concen: 20.772 ug/l
RT: 14.99 min Scan# 1399
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.1	15.1
129	10.6	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/26/2018 10:57:43 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.573 ug/l
RT: 15.14 min Scan# 1414
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.3	48.6	145.9
145	25.7	12.6	37.8

