

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD032719\
 Data File : VD061351.D
 Acq On : 27 Mar 2019 13:06
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:01:34 PM

Quant Time: Mar 28 09:20:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:14:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	740342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	1234097	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	980294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	461258	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	281681	44.54	ug/l	0.00
Spiked Amount			Recovery	=	89.08%	
35) Dibromofluoromethane	6.90	113	471545	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
50) Toluene-d8	10.38	98	1127887	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	13.54	95	412176	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	369185	46.694	ug/l	100
3) Chloromethane	1.75	50	274345	42.546	ug/l	100
4) Vinyl Chloride	1.85	62	276686	46.733	ug/l	100
5) Bromomethane	2.14	94	60675	51.681	ug/l	100
6) Chloroethane	2.26	64	98413	56.682	ug/l	100
7) Trichlorofluoromethane	2.52	101	405145	47.059	ug/l	100
8) Diethyl Ether	2.86	74	130850	47.205	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.14	101	428551	46.301	ug/l	100
10) Methyl Iodide	3.30	142	683103	48.647	ug/l	100
11) Tert butyl alcohol	4.04	59	95379	242.166	ug/l	100
12) 1,1-Dichloroethene	3.11	96	366369	46.104	ug/l	100
13) Acrolein	3.02	56	74956	249.760	ug/l	100
14) Allyl chloride	3.60	41	514804	46.447	ug/l	100
15) Acrylonitrile	4.17	53	331582	242.562	ug/l	100
16) Acetone	3.20	43	428079	263.309	ug/l	100
17) Carbon Disulfide	3.37	76	1221606	47.315	ug/l	100
18) Methyl Acetate	3.62	43	152759	44.689	ug/l	100
19) Methyl tert-butyl Ether	4.21	73	649156	47.192	ug/l	100
20) Methylene Chloride	3.80	84	412938	45.154	ug/l	100
21) trans-1,2-Dichloroethene	4.19	96	406516	47.383	ug/l	100
22) Diisopropyl ether	5.09	45	1139892	48.600	ug/l	100
23) Vinyl Acetate	5.02	43	3138254	246.322	ug/l	100
24) 1,1-Dichloroethane	4.96	63	651006	47.229	ug/l	100
25) 2-Butanone	6.03	43	503747	246.323	ug/l	100
26) 2,2-Dichloropropane	5.99	77	552457	50.418	ug/l	100
27) cis-1,2-Dichloroethene	6.01	96	464509	49.416	ug/l	100
28) Bromochloromethane	6.41	49	270633	48.638	ug/l	100
29) Tetrahydrofuran	6.42	42	230477	232.515	ug/l	100
30) Chloroform	6.63	83	705932	49.564	ug/l	100
31) Cyclohexane	6.93	56	545390	50.069	ug/l	100
32) 1,1,1-Trichloroethane	6.84	97	627161	49.912	ug/l	100
36) 1,1-Dichloropropene	7.12	75	488123	45.319	ug/l	100
37) Ethyl Acetate	6.15	43	229728	49.871	ug/l	100
38) Carbon Tetrachloride	7.09	117	584450m	47.656	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.84	83	530621	47.302	ug/l	100
40) Benzene	7.43	78	1293923	47.866	ug/l	100
41) Methacrylonitrile	6.42	41	256593	47.640	ug/l	100
42) 1,2-Dichloroethane	7.55	62	404290	49.999	ug/l	100
43) Isopropyl Acetate	9.21	43	347187	51.801	ug/l	100
44) Trichloroethene	8.51	130	476065	47.323	ug/l	100
45) 1,2-Dichloropropane	8.92	63	345133	50.351	ug/l	100
46) Dibromomethane	9.04	93	227238	49.254	ug/l	100
47) Bromodichloromethane	9.35	83	516588	49.888	ug/l	100
48) Methyl methacrylate	9.10	41	176220	47.641	ug/l	100
49) 1,4-Dioxane	9.06	88	40091	982.653	ug/l	100
51) 4-Methyl-2-Pentanone	10.28	43	998492	244.871	ug/l	100
52) Toluene	10.48	92	764770	46.374	ug/l	100
53) t-1,3-Dichloropropene	10.89	75	496302	52.753	ug/l	100
54) cis-1,3-Dichloropropene	10.01	75	555254	48.469	ug/l	100
55) 1,1,2-Trichloroethane	11.16	97	272609	47.267	ug/l	100
56) Ethyl methacrylate	11.01	69	313903	50.664	ug/l	100
57) 1,3-Dichloropropane	11.39	76	422053	49.787	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.83	63	714163	236.688	ug/l	100
59) 2-Hexanone	11.51	43	738649	250.020	ug/l	100
60) Dibromochloromethane	11.66	129	433543	48.761	ug/l	100
61) 1,2-Dibromoethane	11.78	107	328811	49.235	ug/l	100
64) Tetrachloroethene	11.23	164	363604	47.261	ug/l	100
65) Chlorobenzene	12.38	112	917915	45.818	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.50	131	400043	51.572	ug/l	100
67) Ethyl Benzene	12.51	91	1574165	51.478	ug/l	100
68) m/p-Xylenes	12.66	106	1141077	98.509	ug/l	100
69) o-Xylene	13.03	106	582883	51.854	ug/l	100
70) Styrene	13.06	104	964625	49.228	ug/l	100
71) Bromoform	13.22	173	251655	51.179	ug/l	100
73) Isopropylbenzene	13.39	105	1460405	45.491	ug/l	100
74) N-amyl acetate	13.25	43	404896	45.275	ug/l	100
75) 1,1,2,2-Tetrachloroethane	13.68	83	303774	44.856	ug/l	100
76) 1,2,3-Trichloropropane	13.72	75	291861	43.803	ug/l	100
77) Bromobenzene	13.65	156	436089	45.821	ug/l	100
78) n-propylbenzene	13.76	91	1912434	48.679	ug/l	100
79) 2-Chlorotoluene	13.83	91	973814	45.651	ug/l	100
80) 1,3,5-Trimethylbenzene	13.92	105	1144769	43.151	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.46	75	100722	49.579	ug/l	100
82) 4-Chlorotoluene	13.94	91	1052908	45.394	ug/l	100
83) tert-Butylbenzene	14.17	119	1430038	45.940	ug/l	100
84) 1,2,4-Trimethylbenzene	14.22	105	1280112	47.471	ug/l	100
85) sec-Butylbenzene	14.35	105	1535915	46.446	ug/l	100
86) p-Isopropyltoluene	14.48	119	1348131	48.211	ug/l	100
87) 1,3-Dichlorobenzene	14.44	146	765863	47.521	ug/l	100
88) 1,4-Dichlorobenzene	14.53	146	748246	47.608	ug/l	100
89) n-Butylbenzene	14.79	91	1182668	46.080	ug/l	100
90) Hexachloroethane	15.00	117	387998	49.114	ug/l	100
91) 1,2-Dichlorobenzene	14.79	146	593787	44.918	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	15.37	75	37720	47.490	ug/l	100

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:14:25 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	314064	52.153	ug/l	100
94) Hexachlorobutadiene	16.03	225	255397	54.274	ug/l	100
95) Naphthalene	16.11	128	509999	55.561	ug/l	100
96) 1,2,3-Trichlorobenzene	16.26	180	148604	56.079	ug/l	100

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

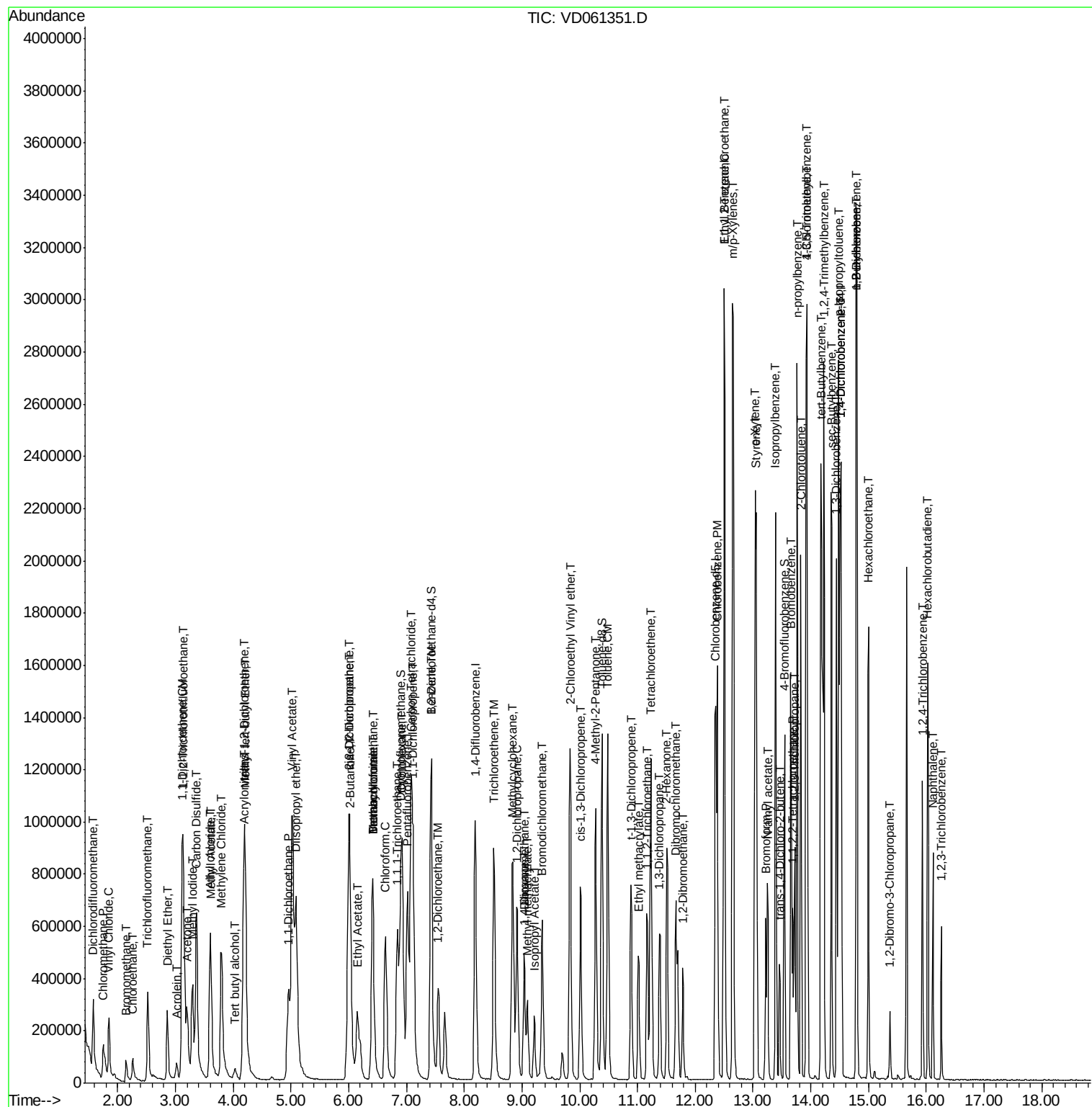
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 Acq On : 27 Mar 2019 13:06
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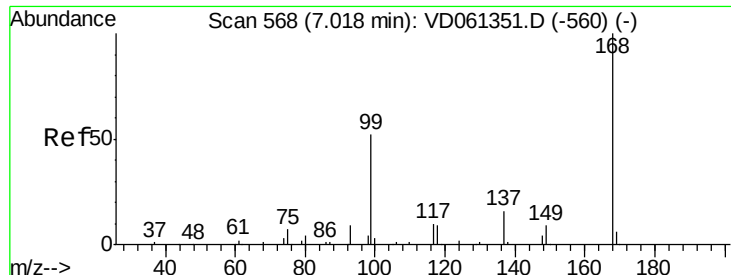
Instrument :
 MSVOA_D
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 168 Resp: 740342

Ion Ratio Lower Upper

168 100

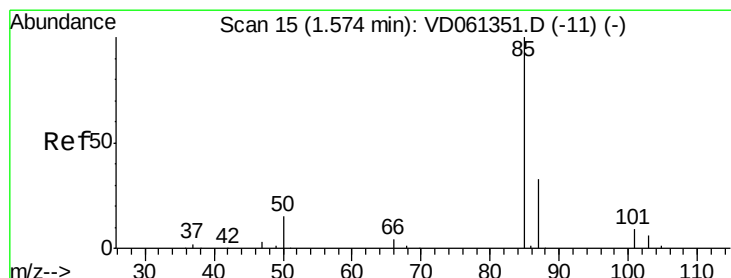
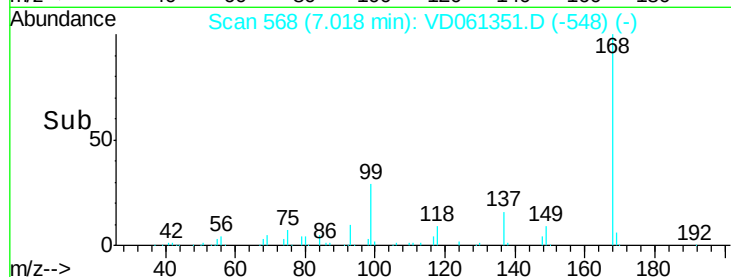
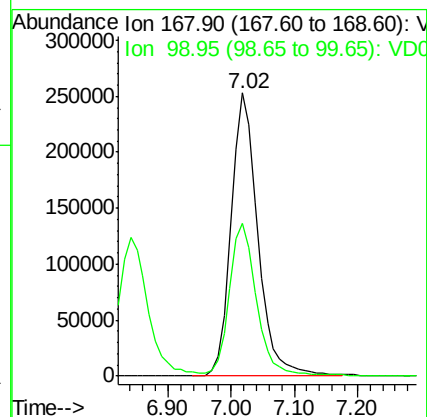
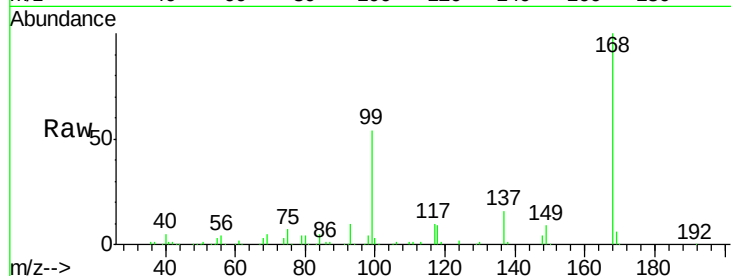
99 53.9 43.1 64.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 46.694 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD061351.D

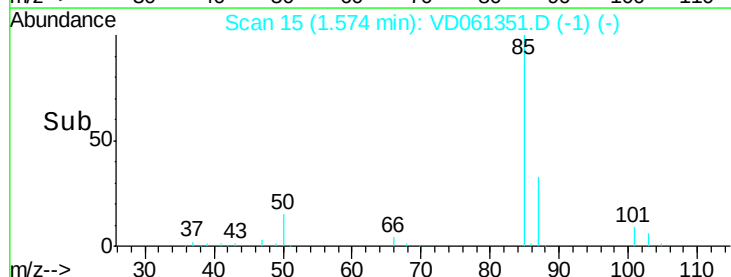
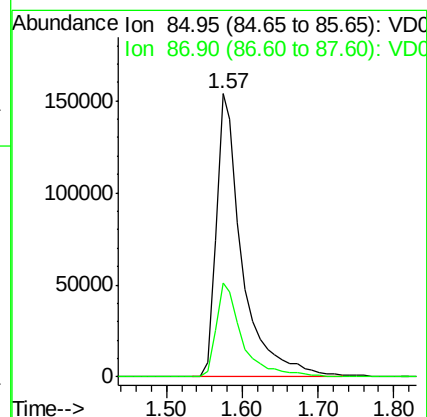
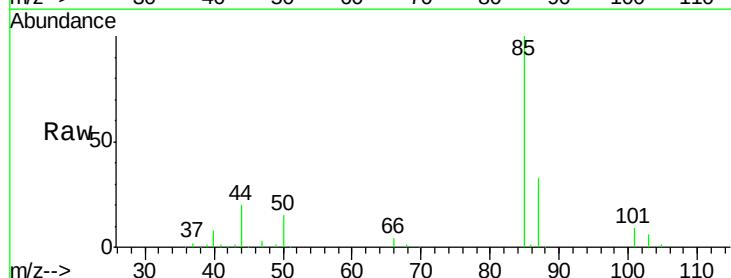
Acq: 27 Mar 2019 13:06

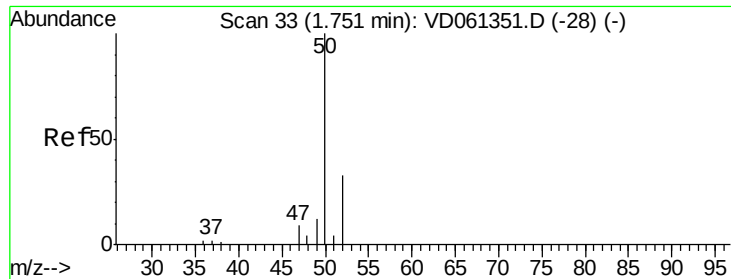
Tgt Ion: 85 Resp: 369185

Ion Ratio Lower Upper

85 100

87 33.1 16.6 49.7





#3

Chloromethane

Concen: 42.546 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 274345

Ion Ratio Lower Upper

50 100

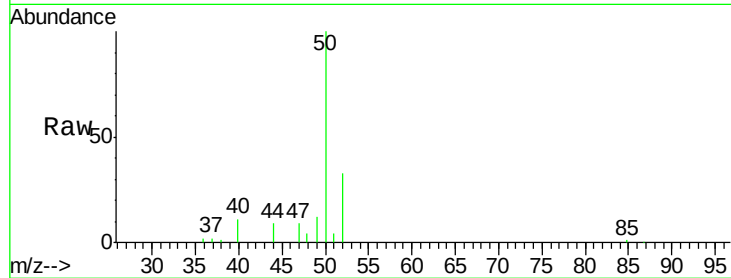
52 32.6 26.1 39.1

Manual Integrations

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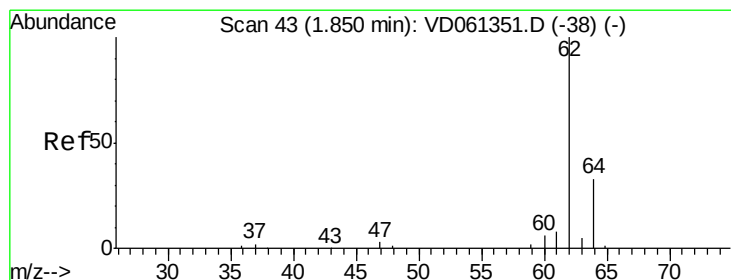
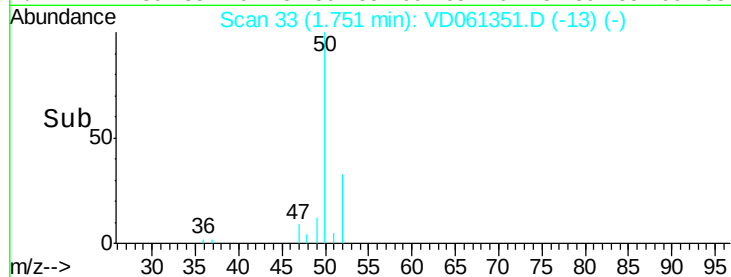
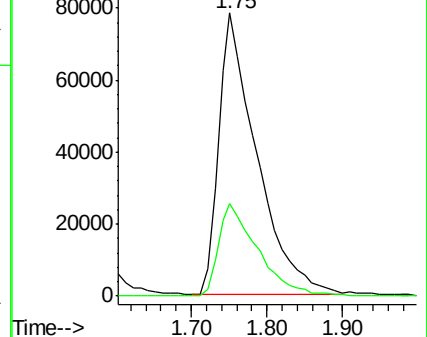
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 46.733 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.00 min

Lab File: VD061351.D

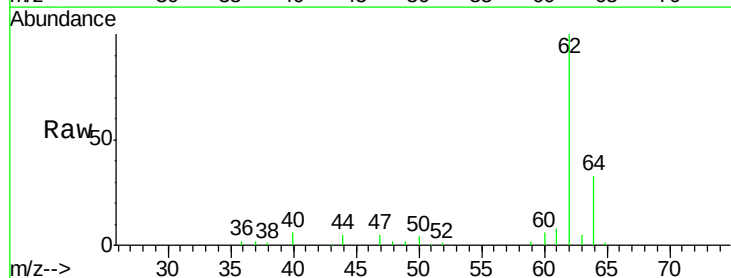
Acq: 27 Mar 2019 13:06

Tgt Ion: 62 Resp: 276686

Ion Ratio Lower Upper

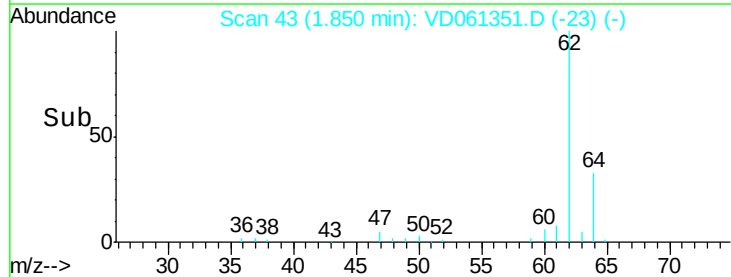
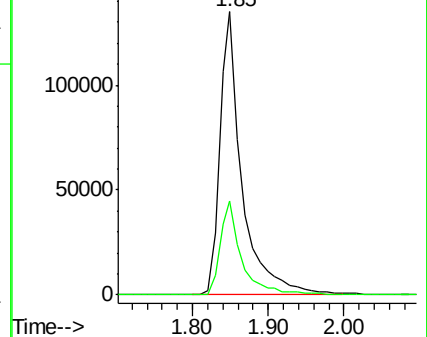
62 100

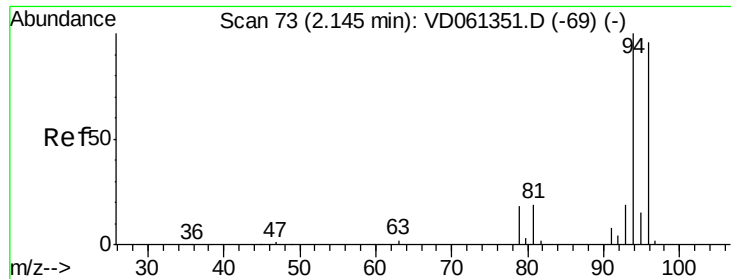
64 33.2 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 51.681 ug/l

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

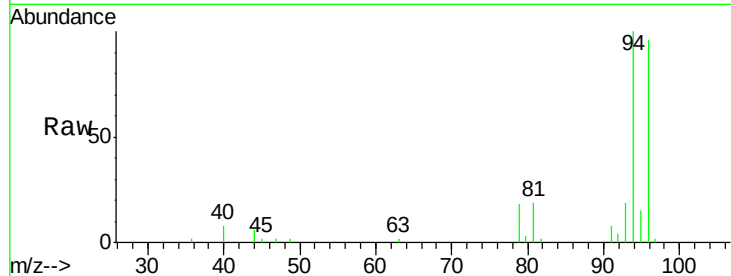
ClientSampleId :

VSTDICCC050

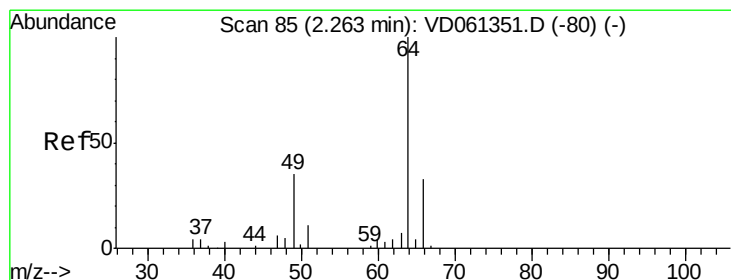
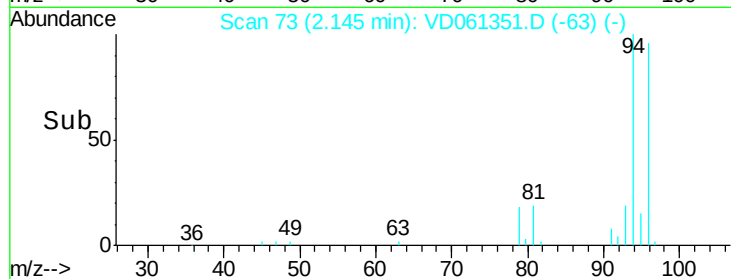
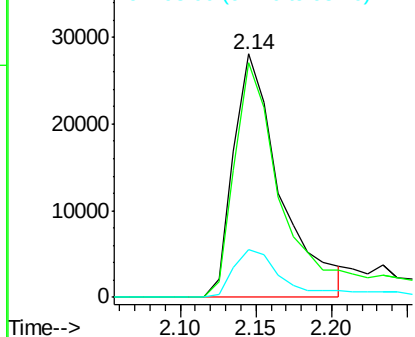
Tgt Ion:	94	Resp:	60675
Ion	Ratio	Lower	Upper
94	100		
96	97.9	78.3	117.5
93	19.5	15.6	23.4

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Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 56.682 ug/l

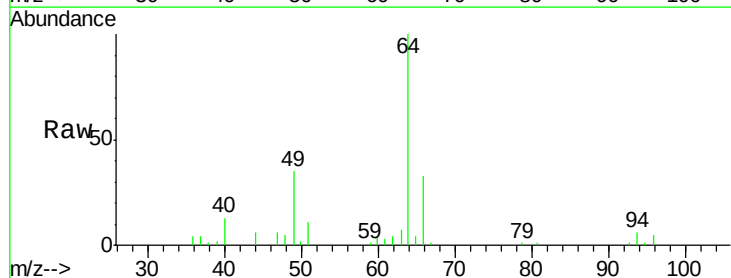
RT: 2.26 min Scan# 85

Delta R.T. 0.00 min

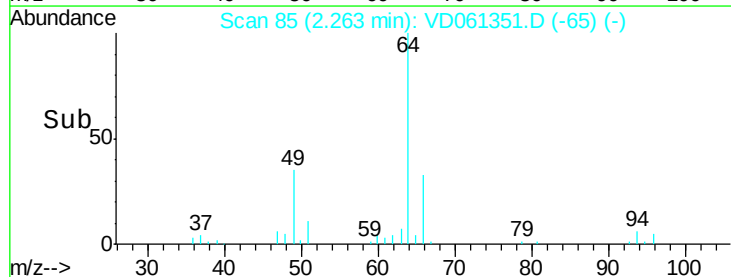
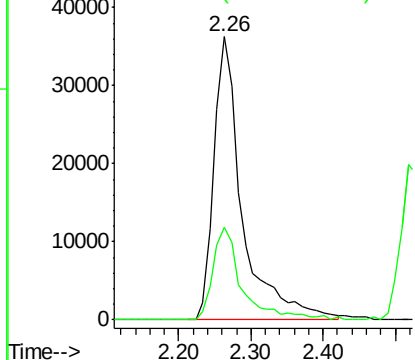
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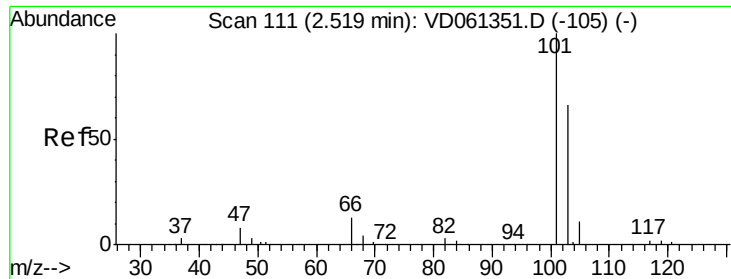
Acq: 27 Mar 2019 13:06

Tgt Ion:	64	Resp:	98413
Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.2	39.2



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC





#7

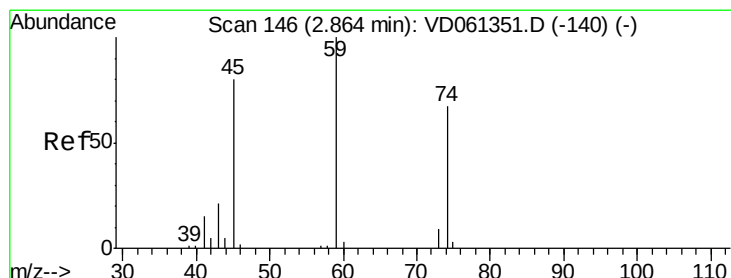
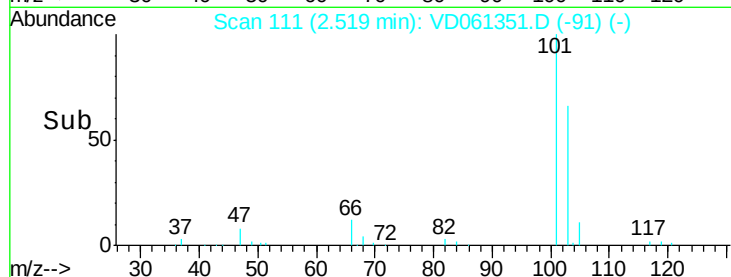
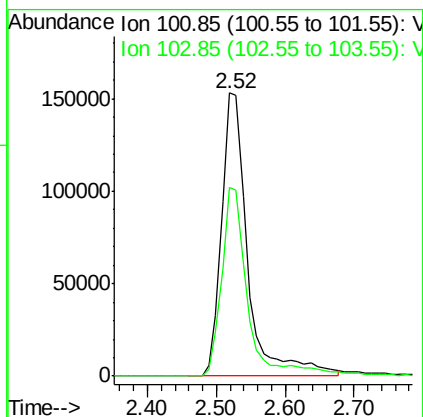
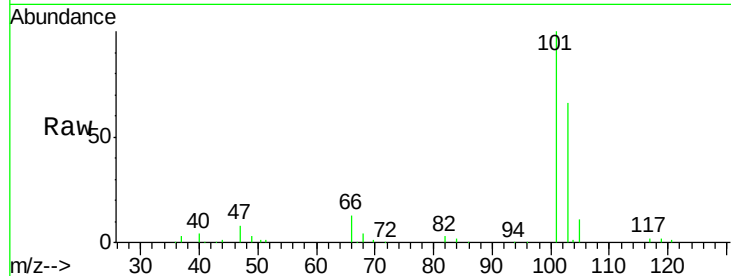
Trichlorofluoromethane
Concen: 47.059 ug/l
RT: 2.52 min Scan# 111
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	405145		
103	66.4	53.1	79.7	

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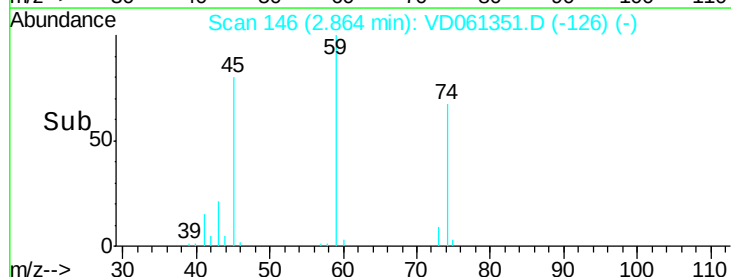
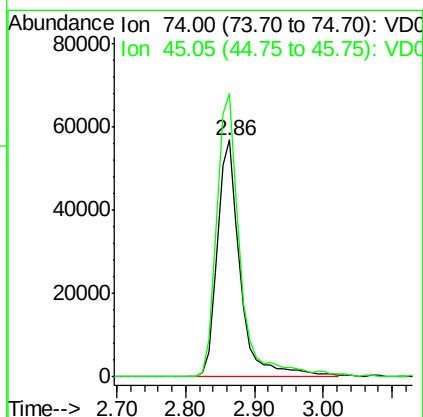
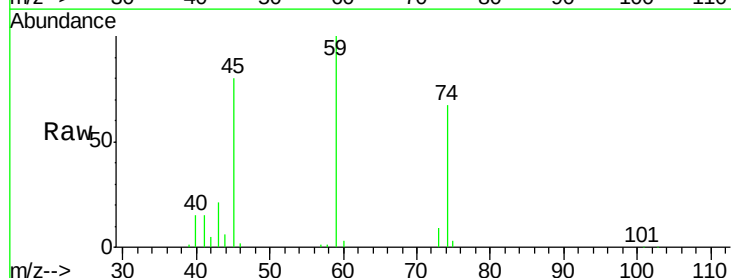
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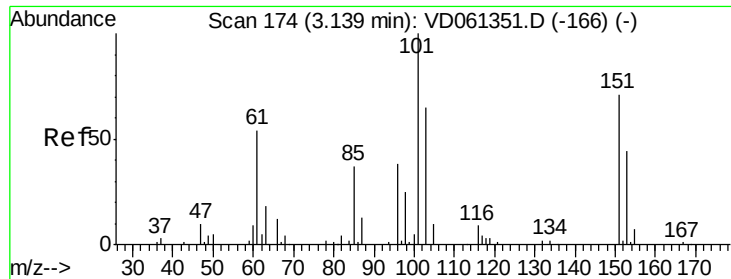


#8

Diethyl Ether
Concen: 47.205 ug/l
RT: 2.86 min Scan# 146
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	130850		
45	119.4	59.7	179.1	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.301 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

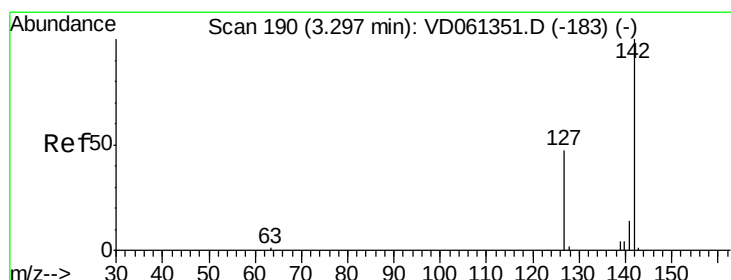
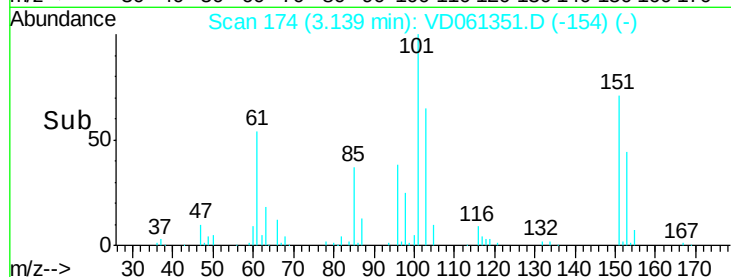
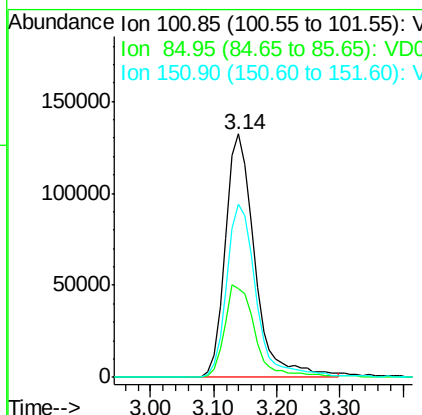
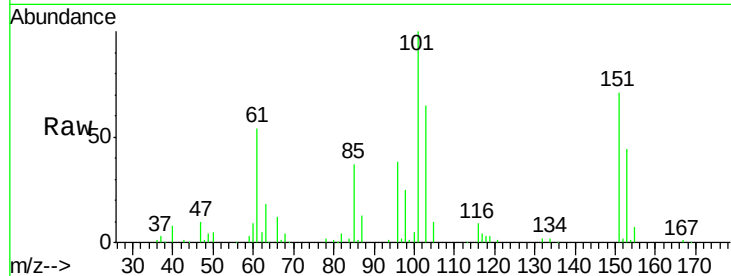
ClientSampleId :

VSTDICCC050

Tgt Ion:	101	Resp:	428551
Ion Ratio	Lower	Upper	
101	100		
85	36.7	29.4	44.0
151	71.2	57.0	85.4

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:01:34 PM



#10

Methyl Iodide

Concen: 48.647 ug/l

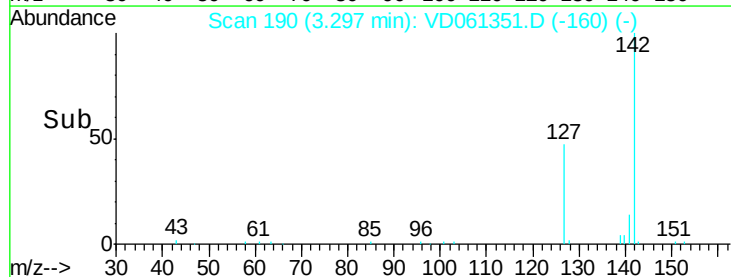
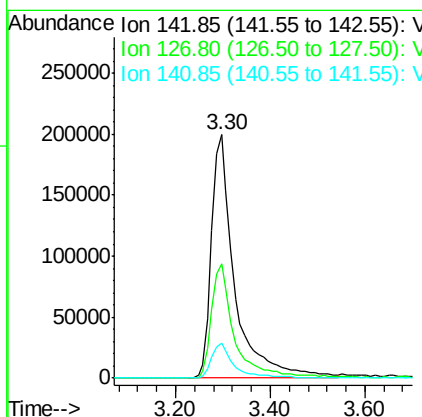
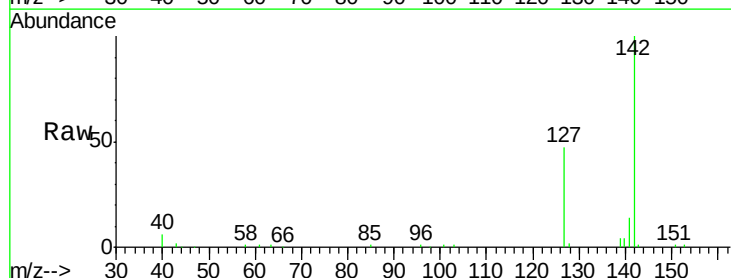
RT: 3.30 min Scan# 190

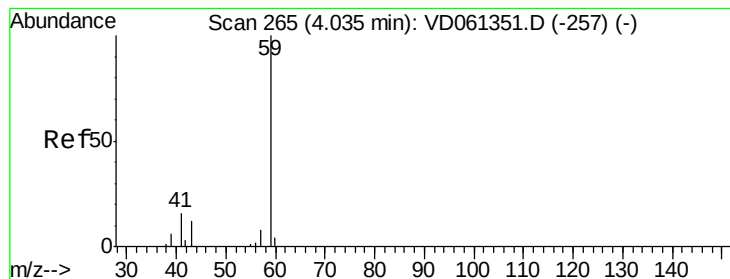
Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion:	142	Resp:	683103
Ion Ratio	Lower	Upper	
142	100		
127	47.1	37.7	56.5
141	14.4	11.5	17.3





#11

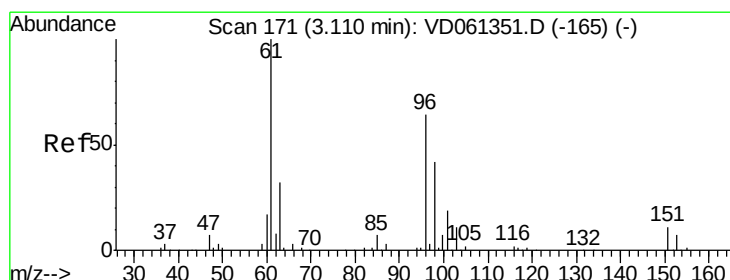
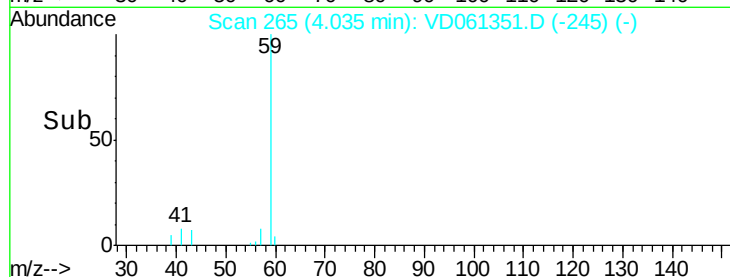
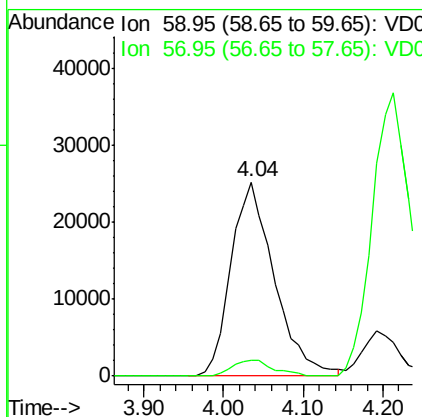
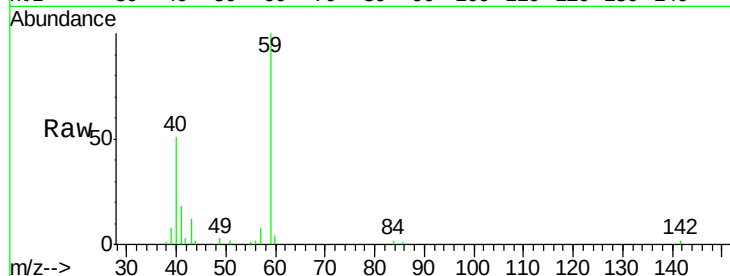
Tert butyl alcohol
Concen: 242.166 ug/l
RT: 4.04 min Scan# 265
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 95379
Ion Ratio Lower Upper
59 100
57 8.4 6.7 10.1

Manual Integrations
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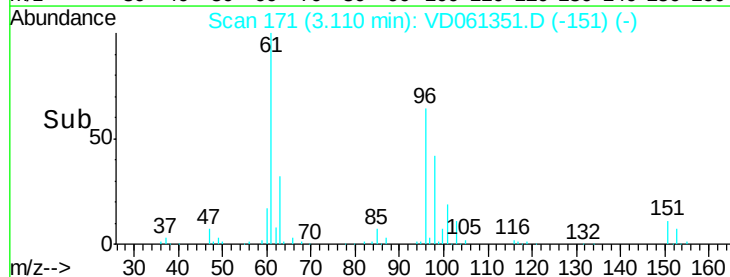
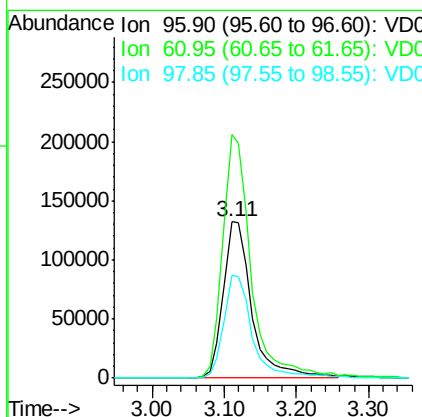
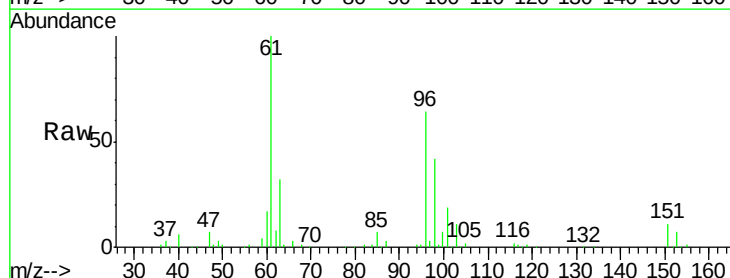
MMDadoda
4/1/2019 3:01:34 PM

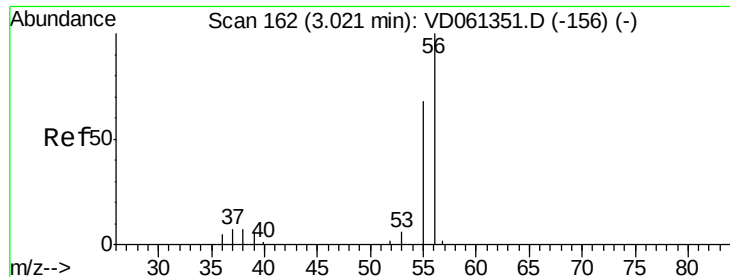


#12

1,1-Dichloroethene
Concen: 46.104 ug/l
RT: 3.11 min Scan# 171
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion: 96 Resp: 366369
Ion Ratio Lower Upper
96 100
61 156.1 124.9 187.3
98 65.6 52.5 78.7





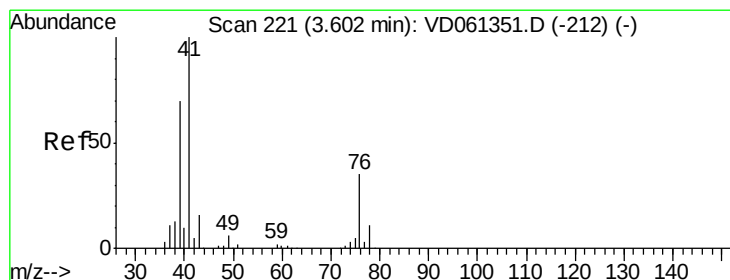
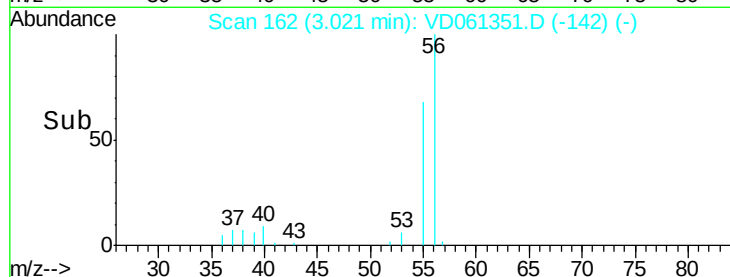
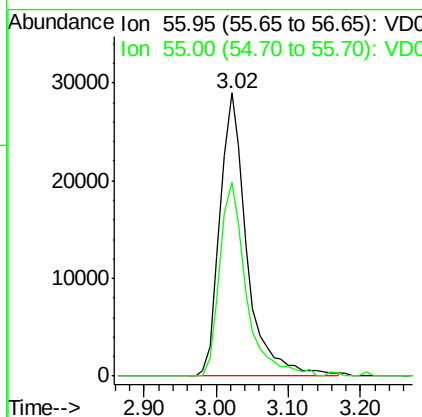
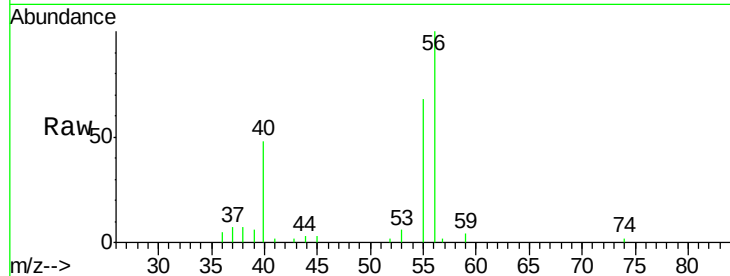
#13
Acrolein
Concen: 249.760 ug/l
RT: 3.02 min Scan# 162
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 74956
Ion Ratio Lower Upper
56 100
55 68.3 54.6 82.0

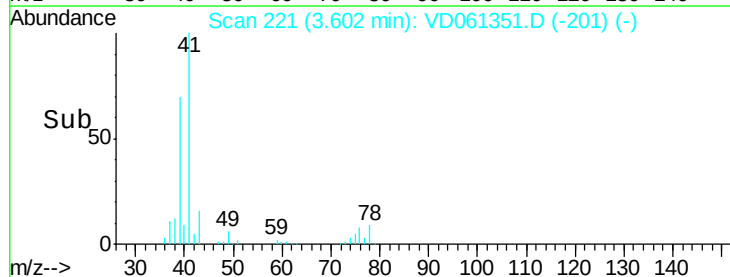
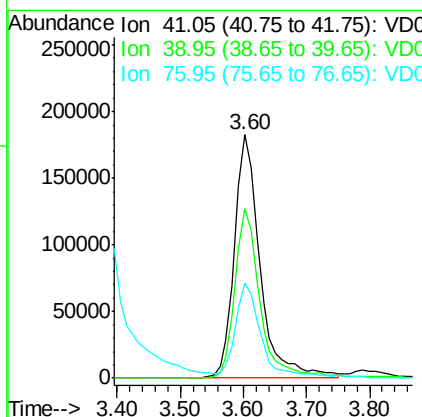
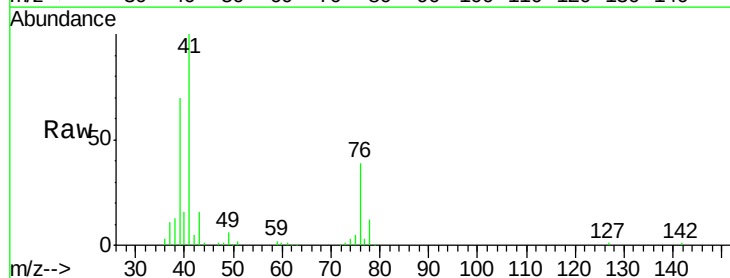
Manual Integrations
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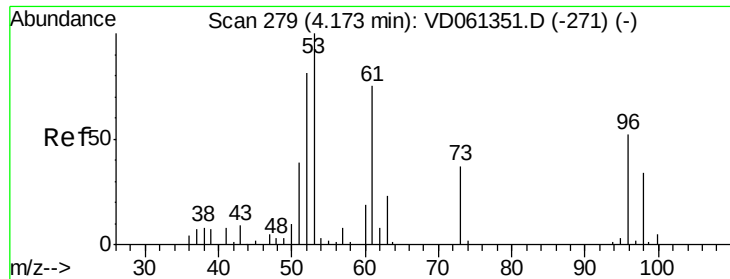
MMDadoda
4/1/2019 3:01:34 PM



#14
Allyl chloride
Concen: 46.447 ug/l
RT: 3.60 min Scan# 221
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion: 41 Resp: 514804
Ion Ratio Lower Upper
41 100
39 69.5 55.6 83.4
76 38.8 31.0 46.6





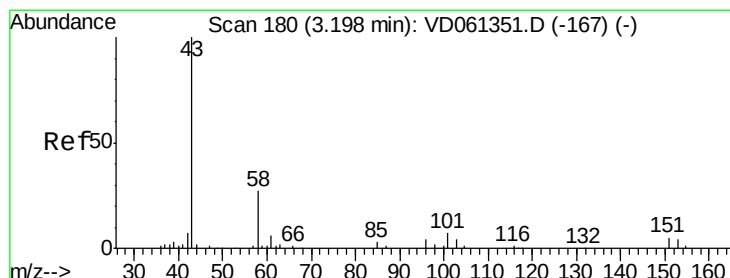
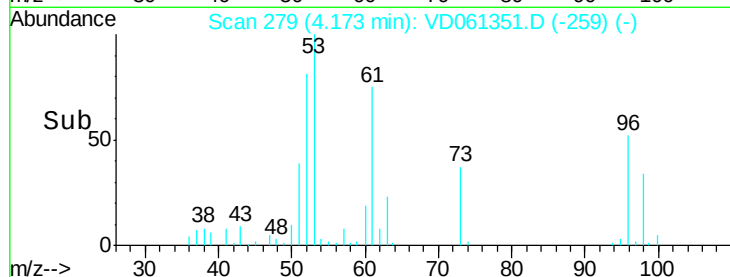
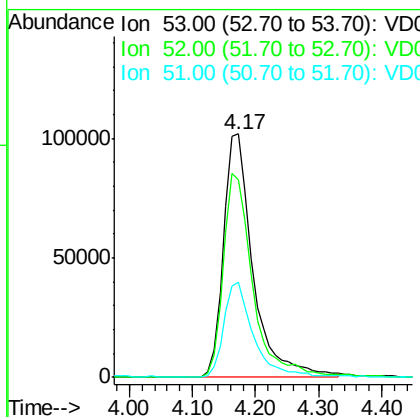
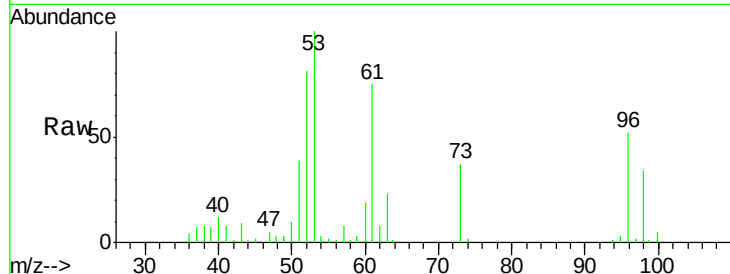
#15
Acrylonitrile
Concen: 242.562 ug/l
RT: 4.17 min Scan# 279
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.0	64.8	97.2
51	39.3	31.4	47.2

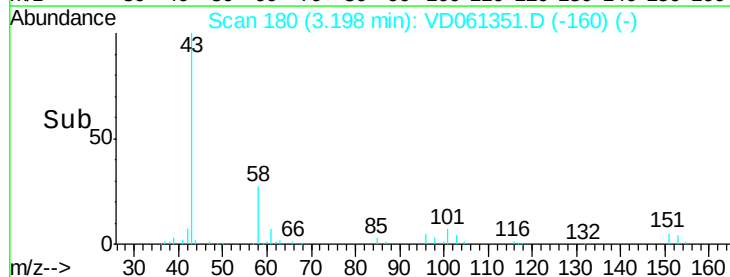
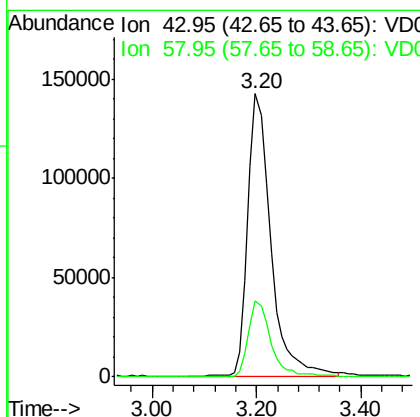
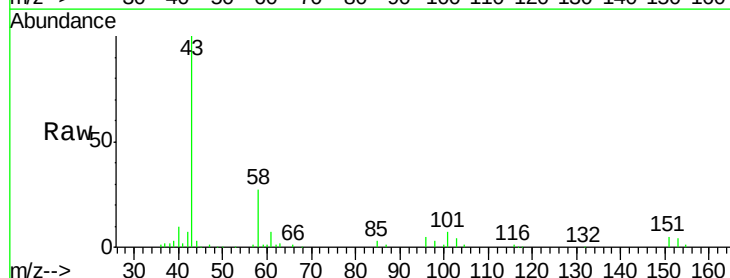
Manual Integrations
APPROVED

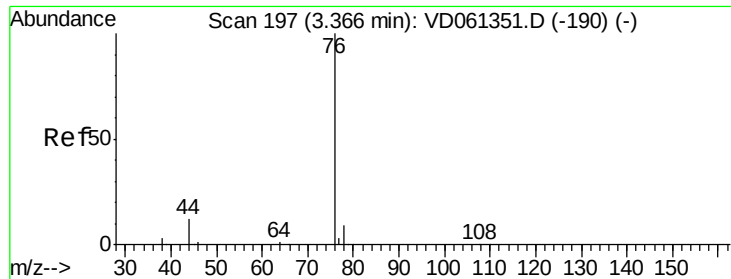
MMDadoda
4/1/2019 3:01:34 PM



#16
Acetone
Concen: 263.309 ug/l
RT: 3.20 min Scan# 180
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.9	21.5	32.3





#17

Carbon Disulfide

Concen: 47.315 ug/l

RT: 3.37 min Scan# 197

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 1221606

Ion Ratio Lower Upper

76 100

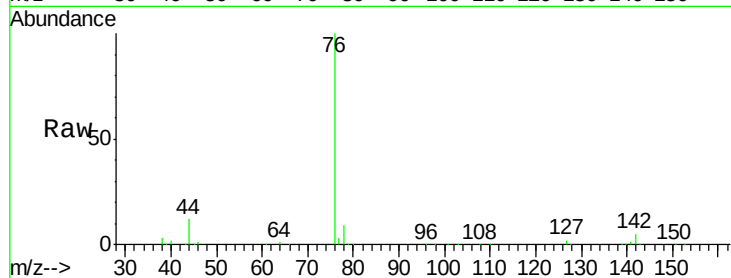
78 8.9 7.1 10.7

Manual Integrations

APPROVED

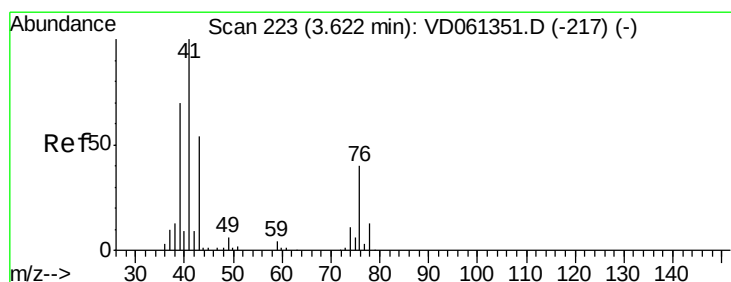
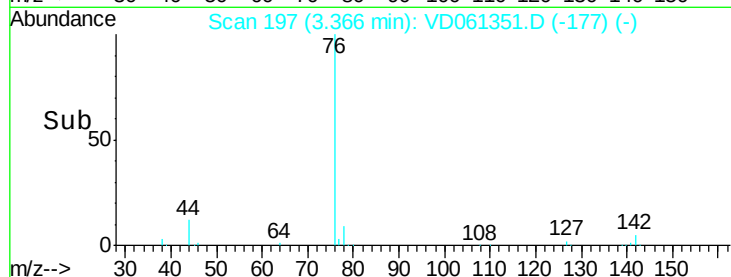
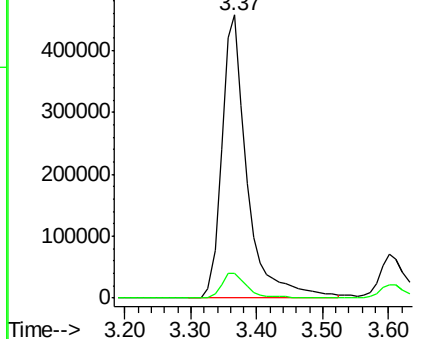
MMDadoda

4/1/2019 3:01:34 PM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 44.689 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.00 min

Lab File: VD061351.D

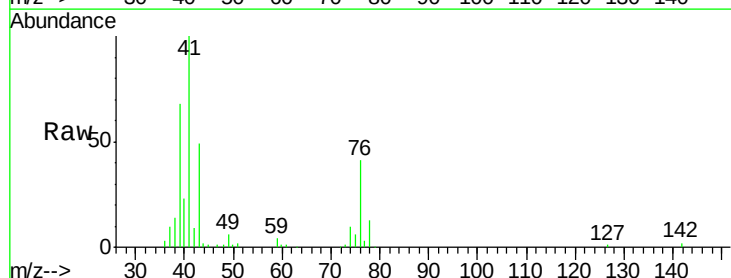
Acq: 27 Mar 2019 13:06

Tgt Ion: 43 Resp: 152759

Ion Ratio Lower Upper

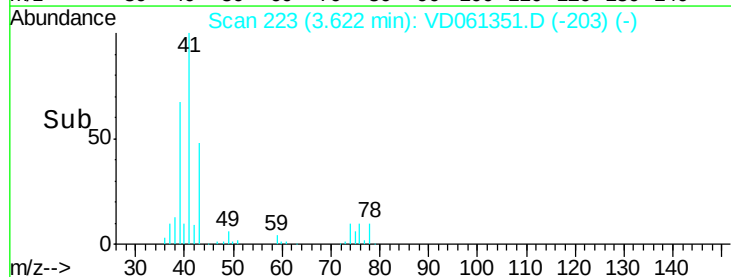
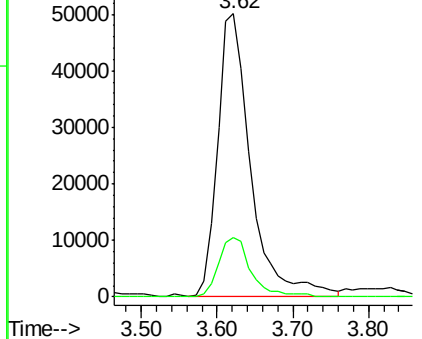
43 100

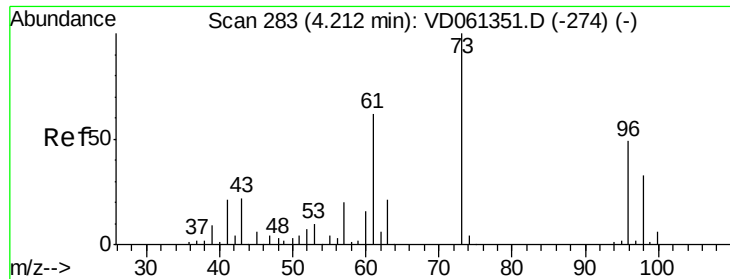
74 20.9 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





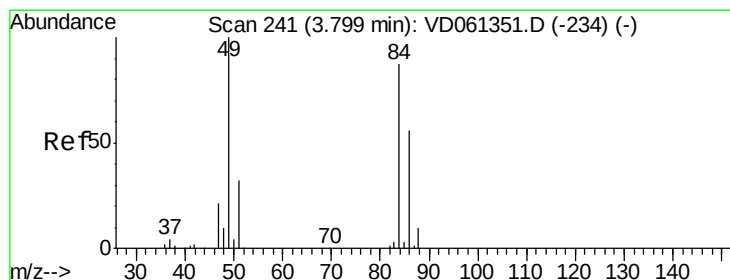
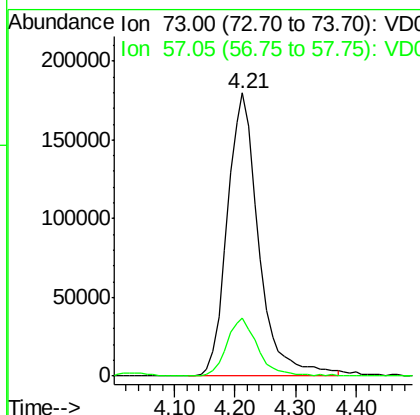
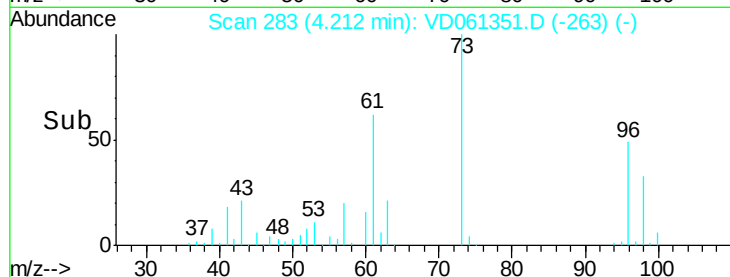
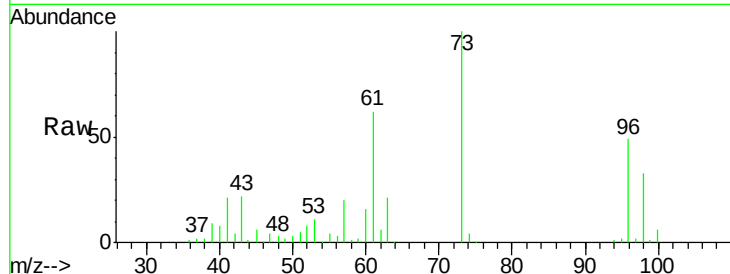
#19
Methyl tert-butyl Ether
Concen: 47.192 ug/l
RT: 4.21 min Scan# 283
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 649156
Ion Ratio Lower Upper
73 100
57 20.5 16.4 24.6

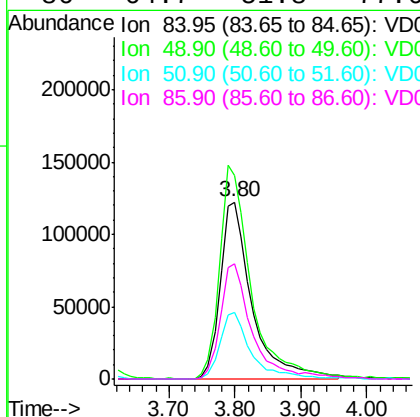
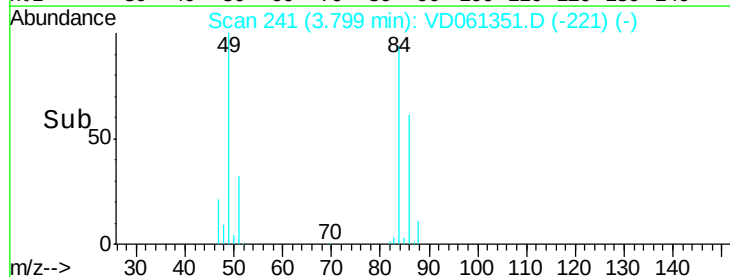
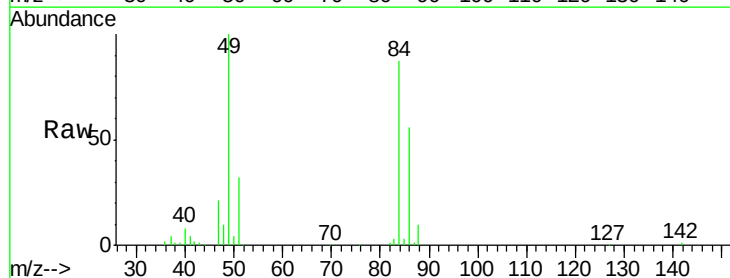
Manual Integrations
APPROVED

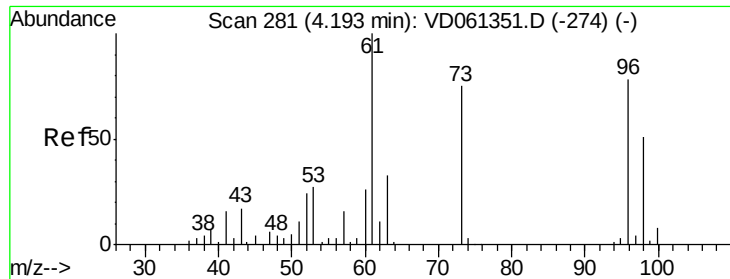
MMDadoda
4/1/2019 3:01:34 PM



#20
Methylene Chloride
Concen: 45.154 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion: 84 Resp: 412938
Ion Ratio Lower Upper
84 100
49 114.8 91.8 137.8
51 37.3 29.8 44.8
86 64.7 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 47.383 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 406516

Ion Ratio Lower Upper

96 100

61 128.4 102.7 154.1

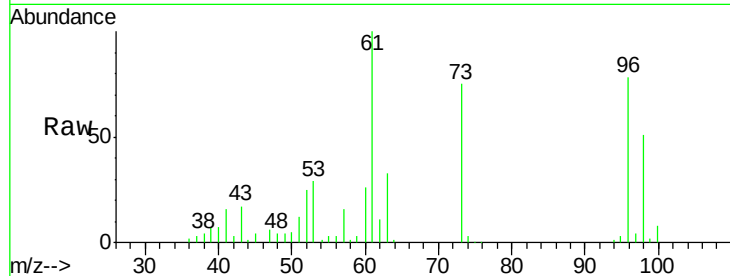
98 65.3 52.2 78.4

Manual Integrations

APPROVED

MMDadoda

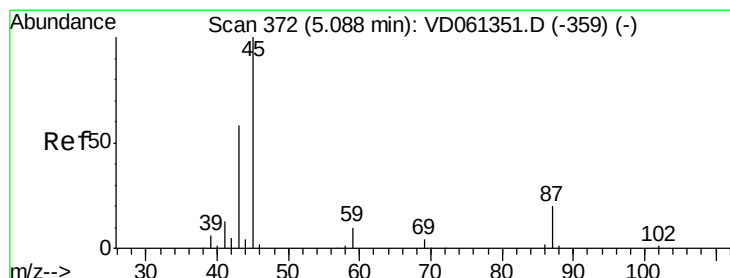
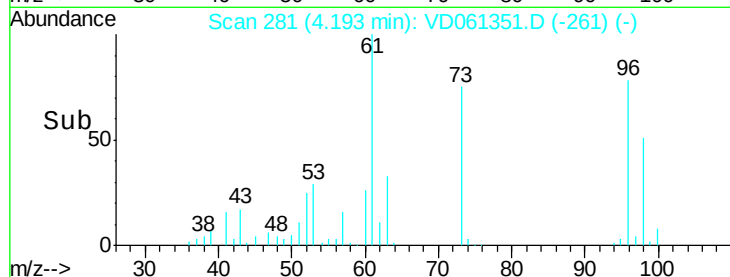
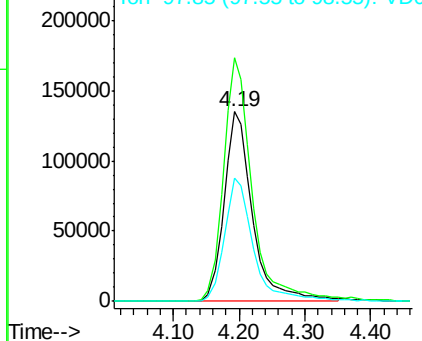
4/1/2019 3:01:34 PM



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: 48.600 ug/l

RT: 5.09 min Scan# 372

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion: 45 Resp: 1139892

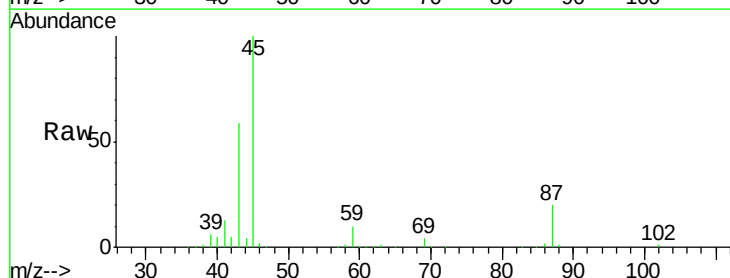
Ion Ratio Lower Upper

45 100

43 59.3 47.4 71.2

87 20.4 16.3 24.5

59 10.5 8.4 12.6

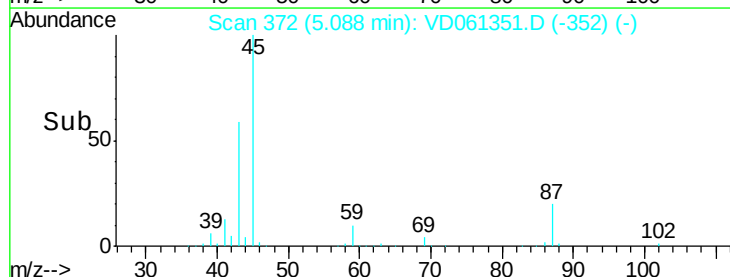
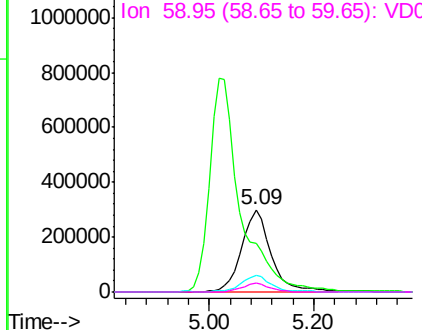


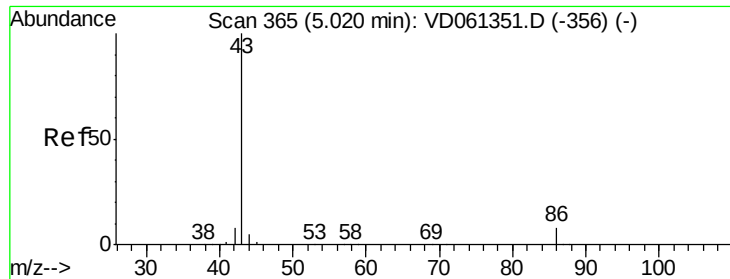
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 246.322 ug/l

RT: 5.02 min Scan# 365

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 3138254

Ion Ratio Lower Upper

43 100

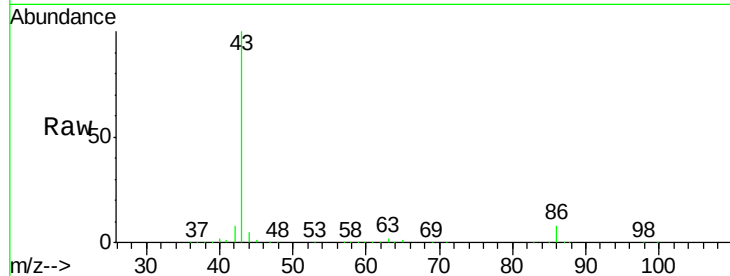
86 8.4 6.7 10.1

Manual Integrations

APPROVED

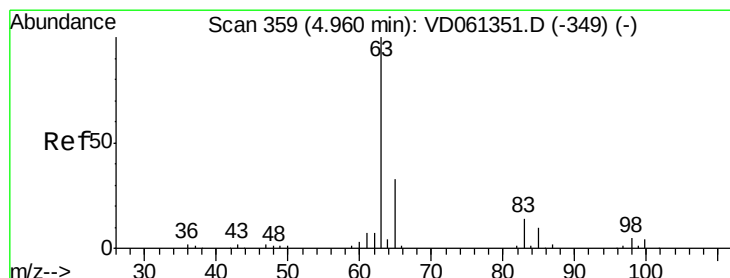
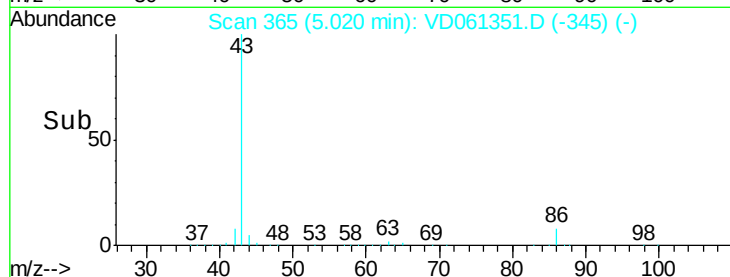
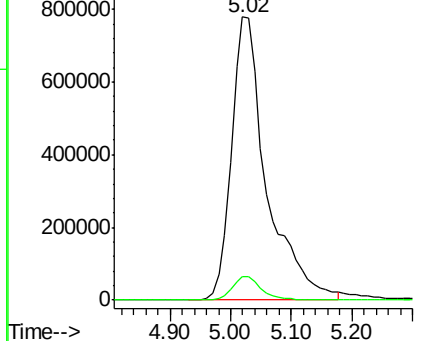
MMDadoda

4/1/2019 3:01:34 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 47.229 ug/l

RT: 4.96 min Scan# 359

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

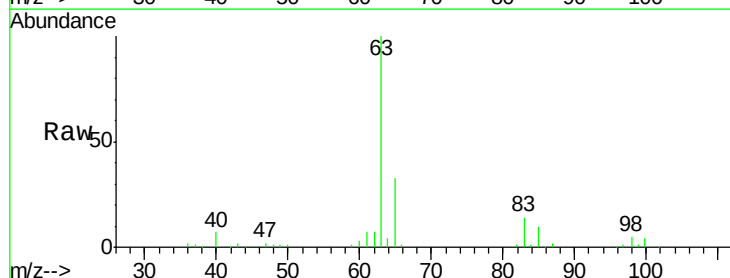
Tgt Ion: 63 Resp: 651006

Ion Ratio Lower Upper

63 100

98 5.3 2.6 8.0

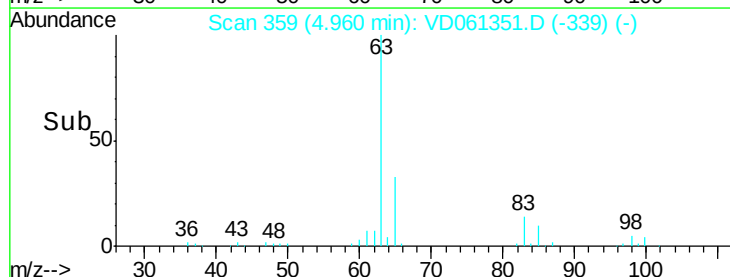
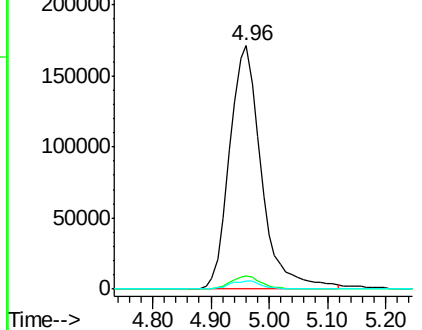
100 3.5 1.8 5.3

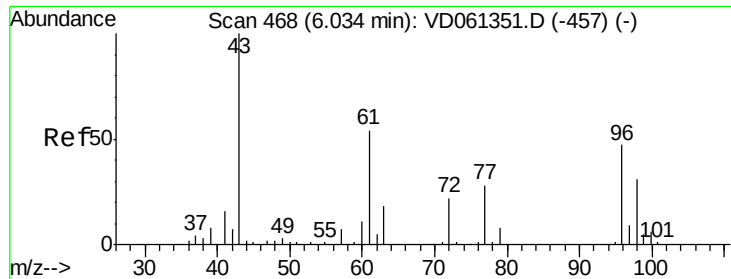


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 246.323 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 503747

Ion Ratio Lower Upper

43 100

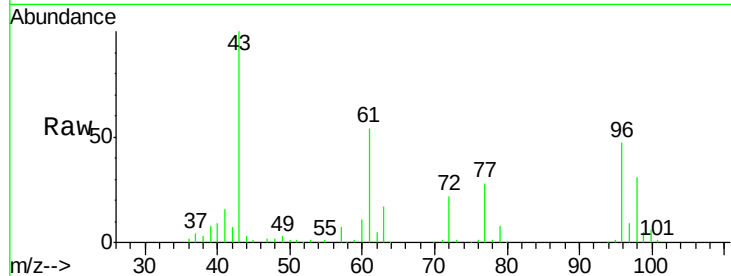
72 21.5 17.2 25.8

Manual Integrations

APPROVED

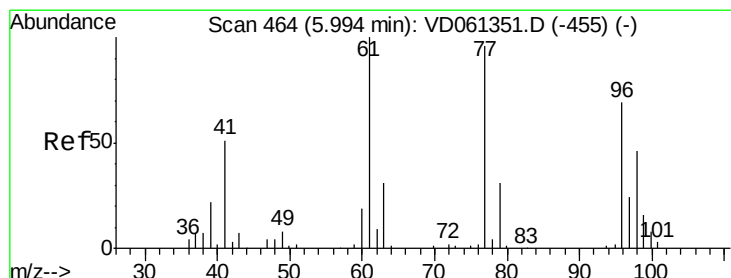
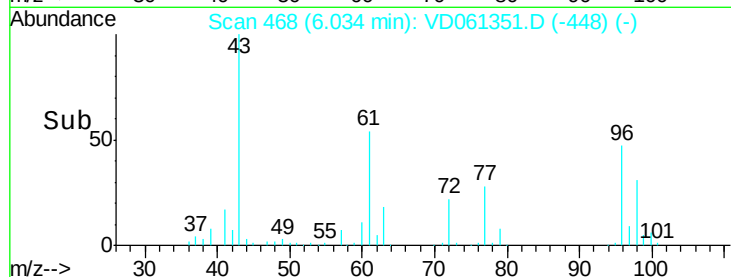
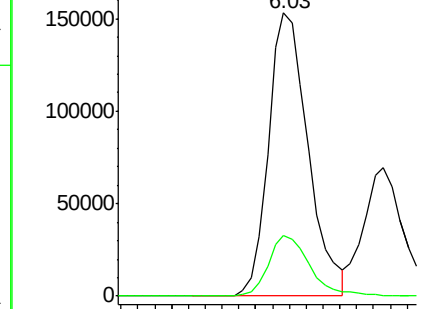
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 50.418 ug/l

RT: 5.99 min Scan# 464

Delta R.T. 0.00 min

Lab File: VD061351.D

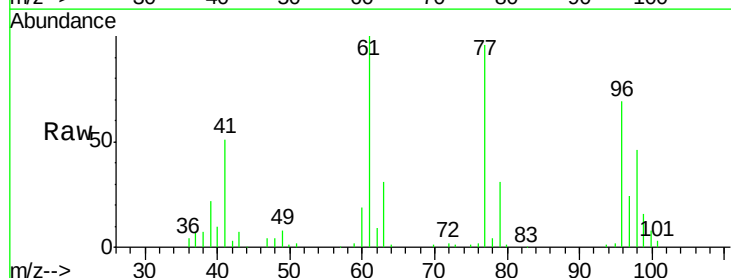
Acq: 27 Mar 2019 13:06

Tgt Ion: 77 Resp: 552457

Ion Ratio Lower Upper

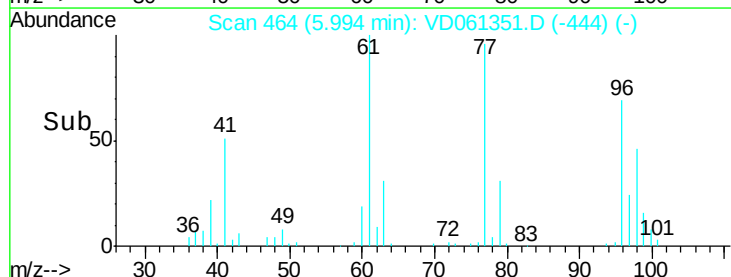
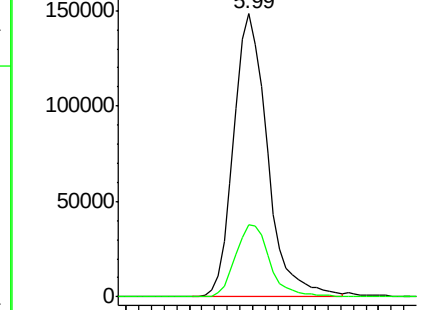
77 100

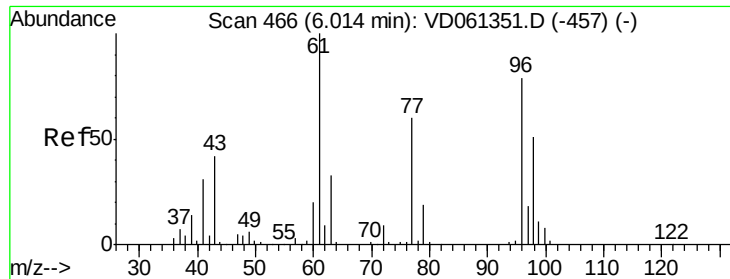
97 25.3 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





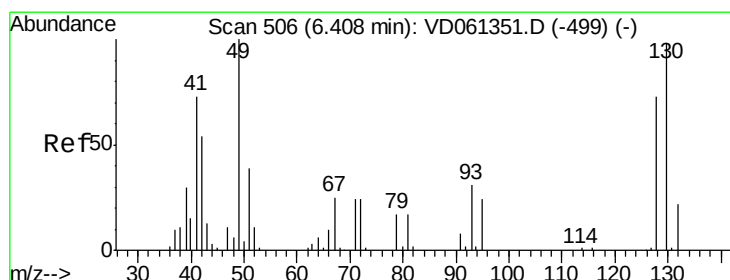
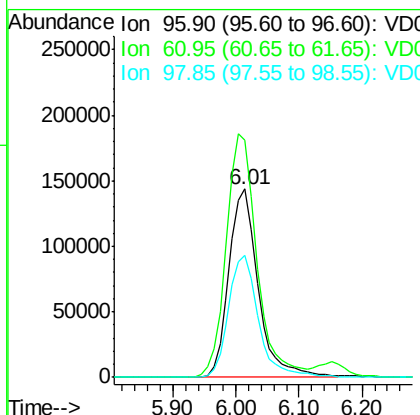
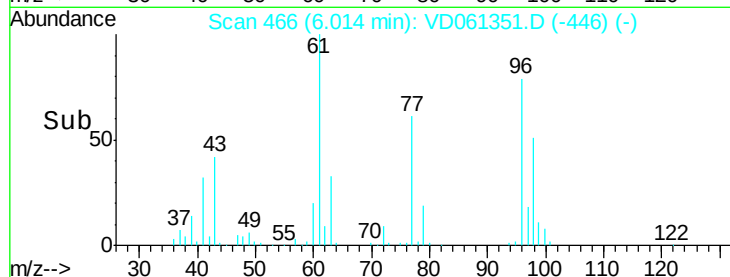
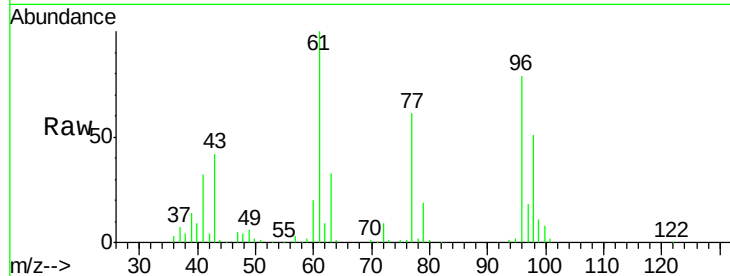
#27
 cis-1,2-Dichloroethene
 Concen: 49.416 ug/l
 RT: 6.01 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
96	100		
61	125.8	0.0	251.6
98	64.6	0.0	129.2

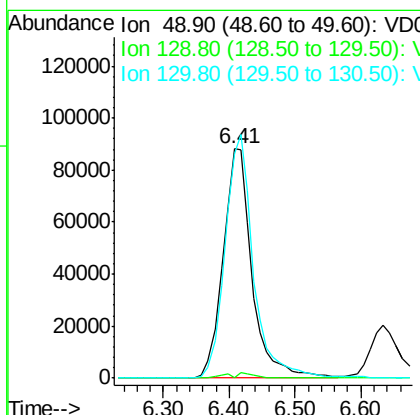
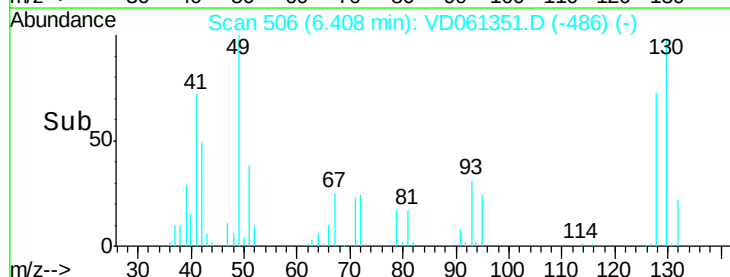
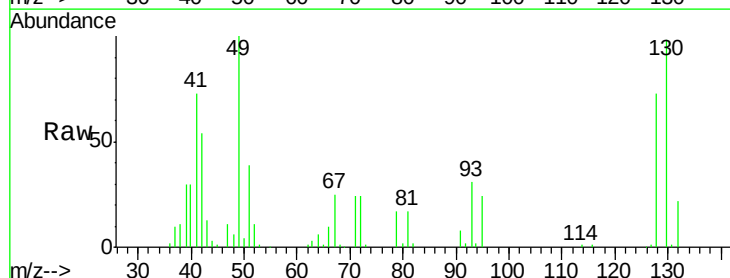
Manual Integrations
 APPROVED

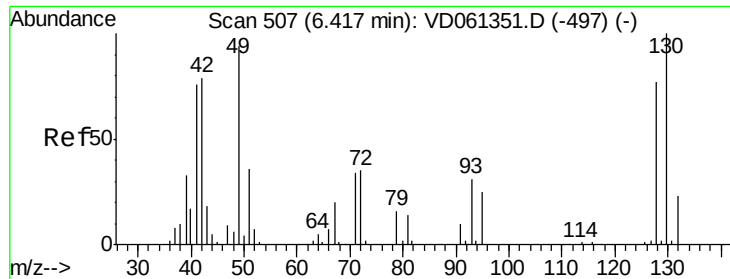
MMDadoda
 4/1/2019 3:01:34 PM



#28
 Bromochloromethane
 Concen: 48.638 ug/l
 RT: 6.41 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	98.0	78.4	117.6





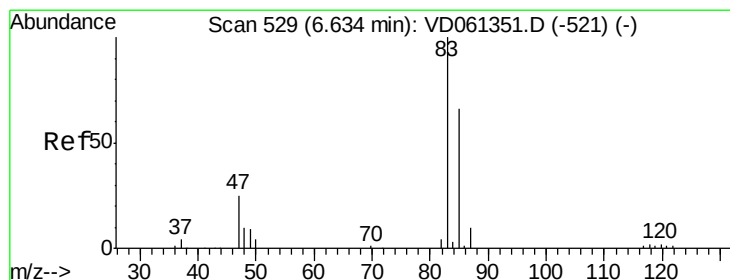
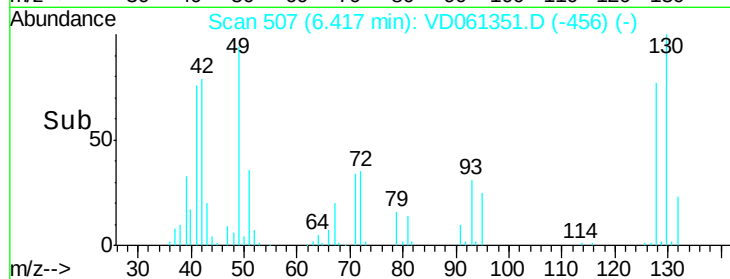
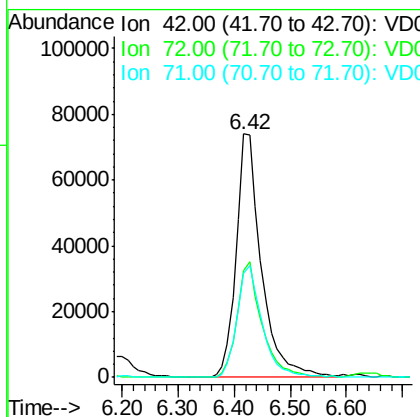
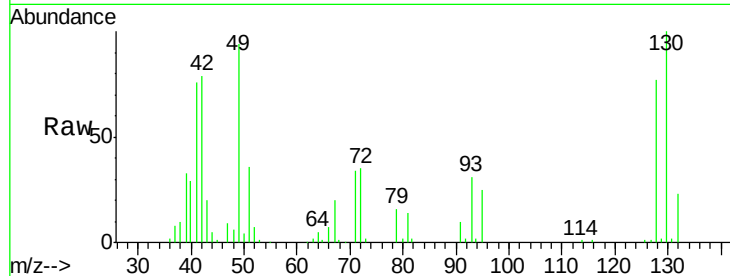
#29
Tetrahydrofuran
Concen: 232.515 ug/l
RT: 6.42 min Scan# 507
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
42	100		
72	46.7	37.4	56.0
71	45.9	36.7	55.1

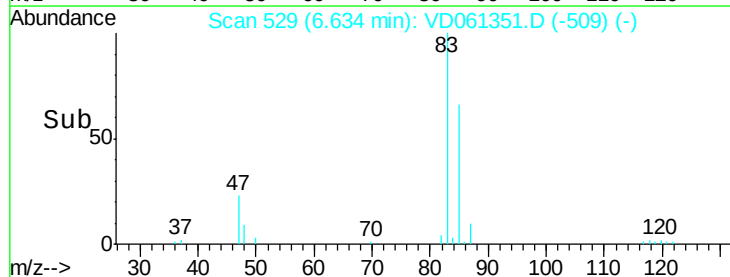
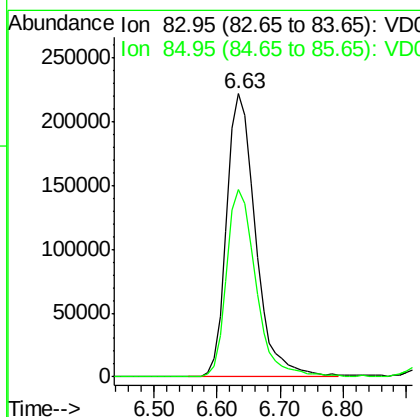
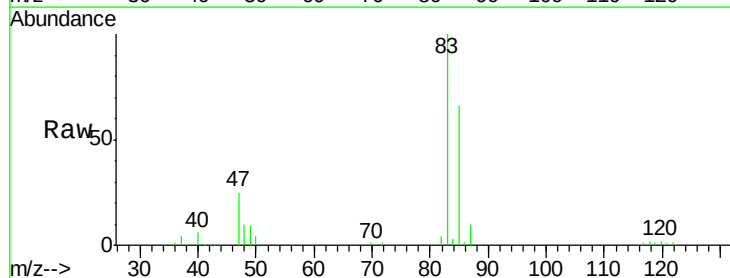
Manual Integrations
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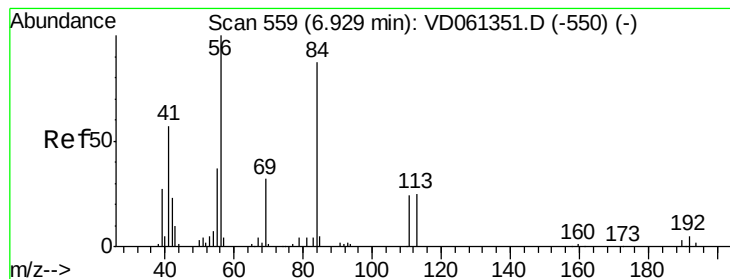
MMDadoda
4/1/2019 3:01:34 PM



#30
Chloroform
Concen: 49.564 ug/l
RT: 6.63 min Scan# 529
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	53.0	79.4





#31

Cyclohexane

Concen: 50.069 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

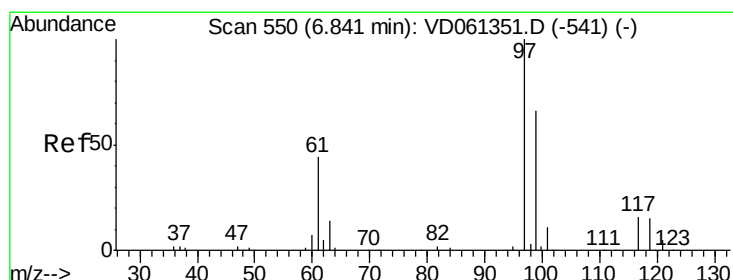
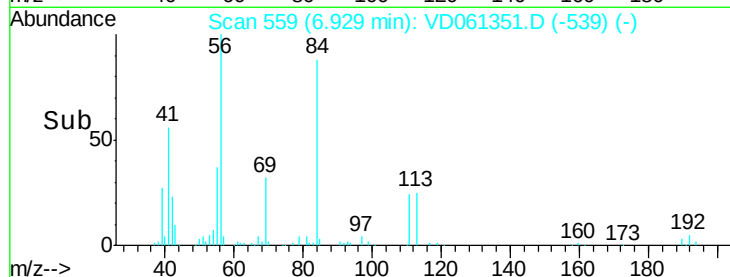
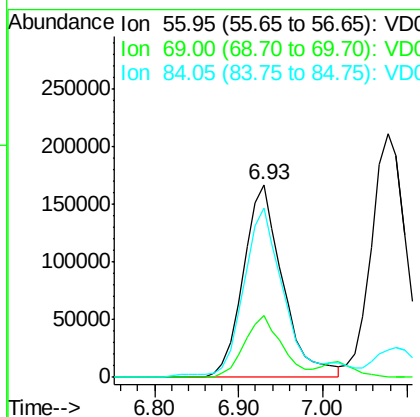
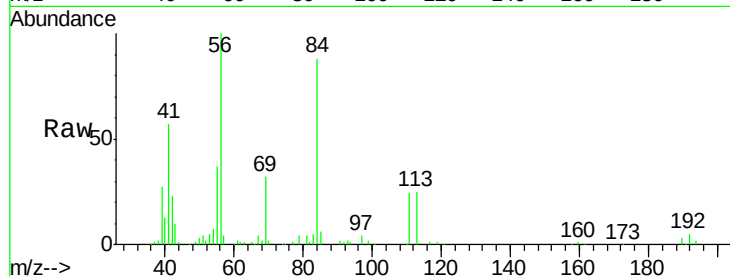
ClientSampleId :

VSTDICCC050

Tgt Ion:	56	Resp:	545390
Ion	Ratio	Lower	Upper
56	100		
69	32.1	25.7	38.5
84	88.2	70.6	105.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 49.912 ug/l

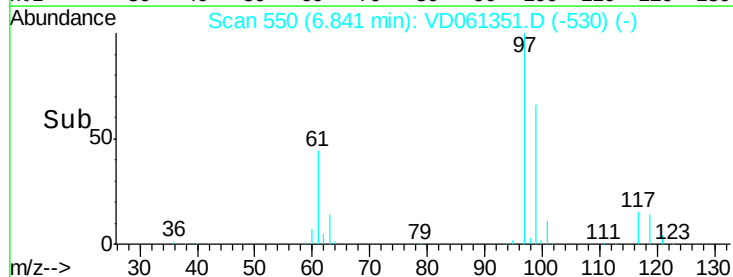
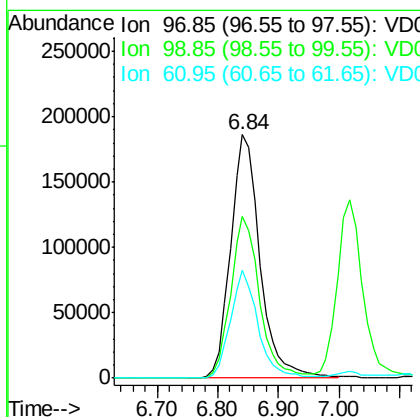
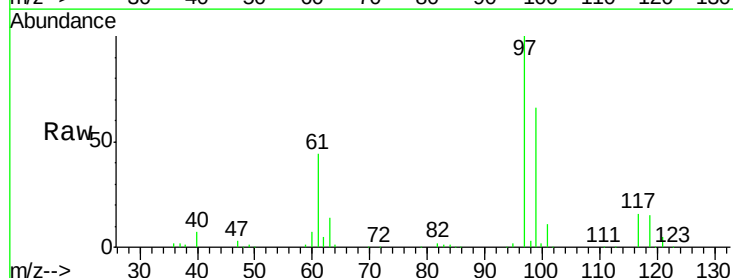
RT: 6.84 min Scan# 550

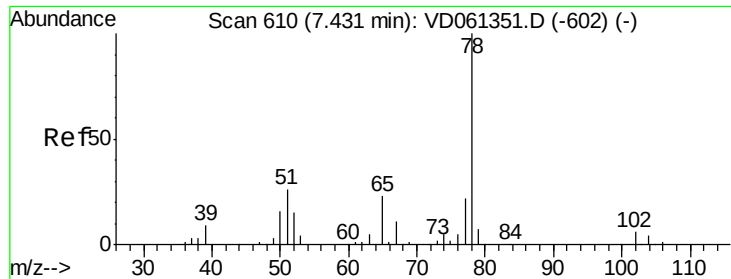
Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion:	97	Resp:	627161
Ion	Ratio	Lower	Upper
97	100		
99	66.4	53.1	79.7
61	44.4	35.5	53.3





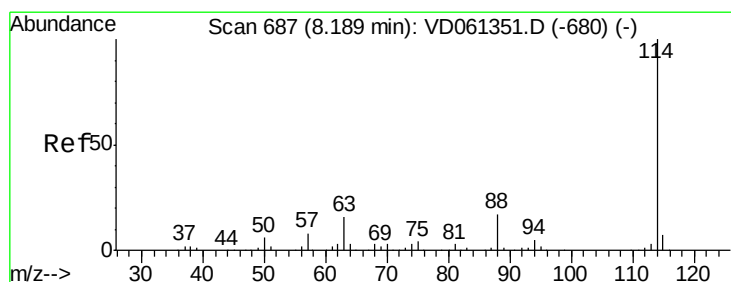
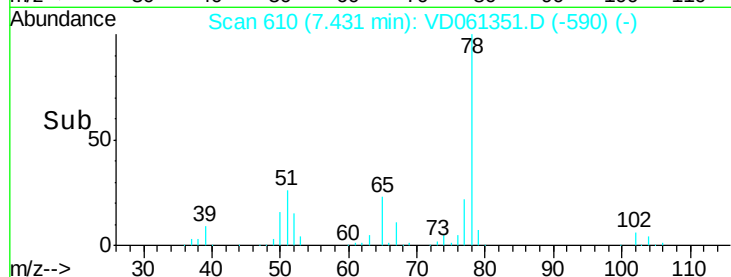
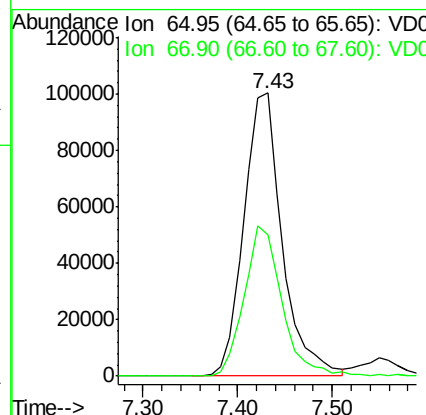
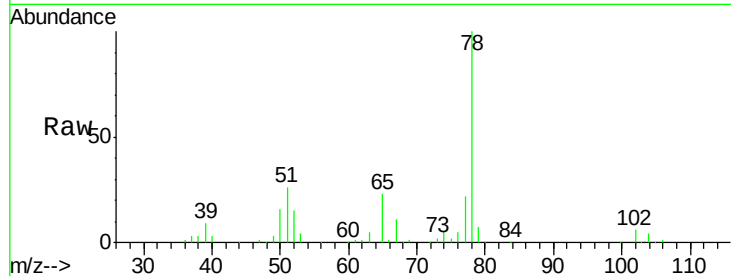
#33
 1,2-Dichloroethane-d4
 Concen: 49.912 ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 65 Resp: 281681
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 99.8

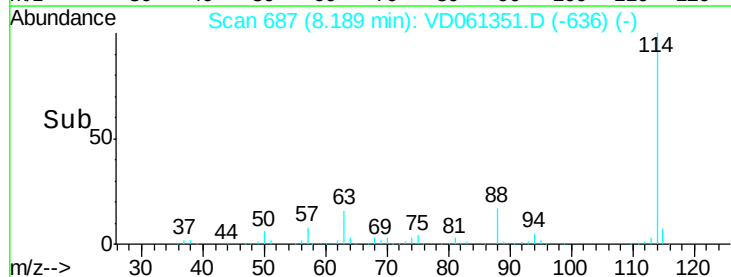
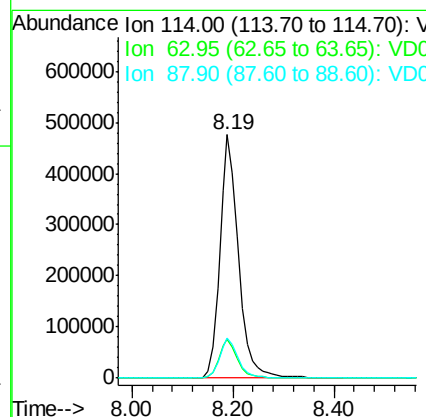
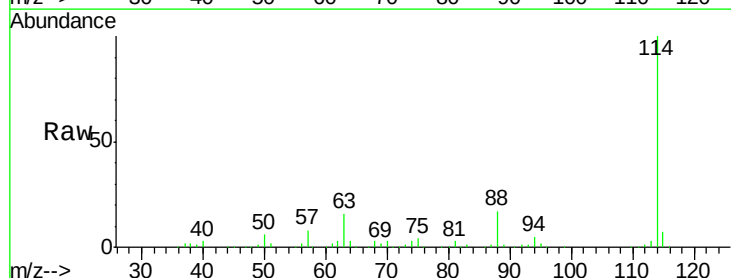
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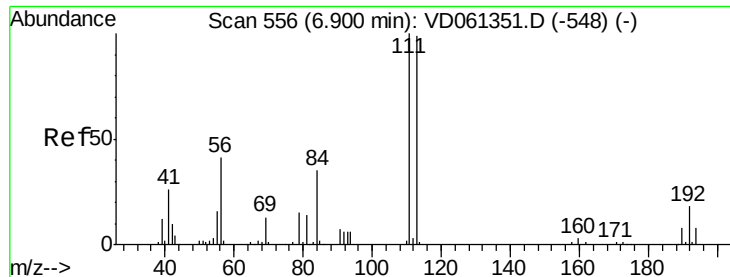
MMDadoda
 4/1/2019 3:01:34 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion: 114 Resp: 1234097
 Ion Ratio Lower Upper
 114 100
 63 15.8 0.0 31.6
 88 16.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.90 min Scan# 556

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

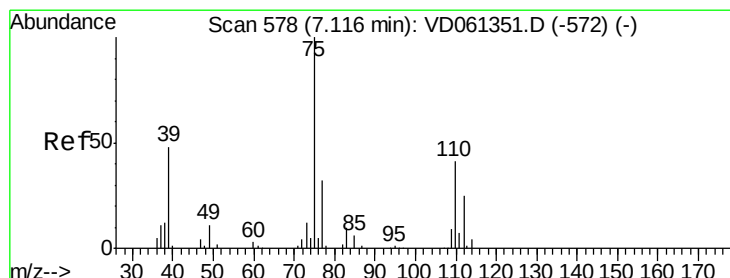
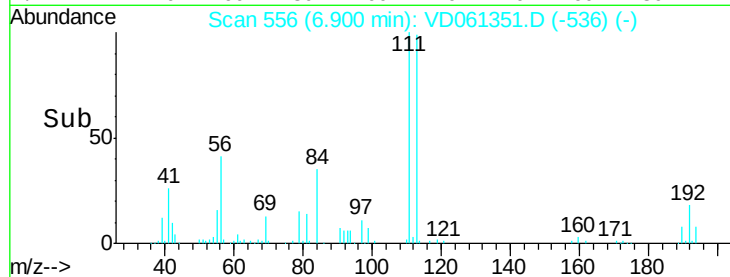
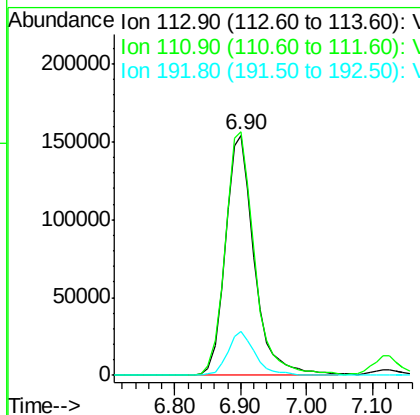
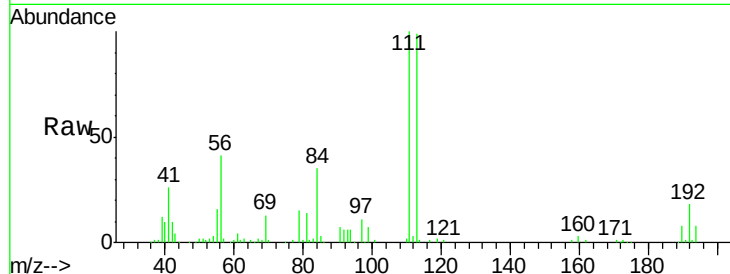
ClientSampleId :

VSTDICCC050

Tgt Ion:	113	Resp:	471545
Ion Ratio	Lower	Upper	
113	100		
111	101.3	81.0	121.6
192	18.0	14.4	21.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 45.319 ug/l

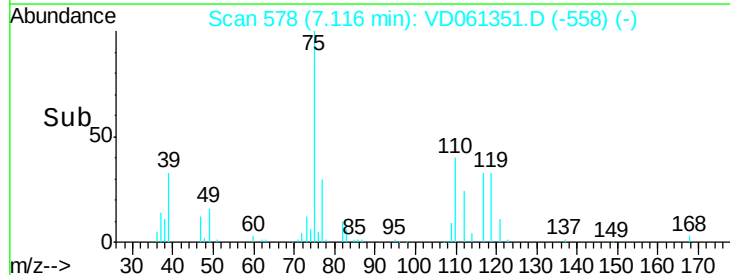
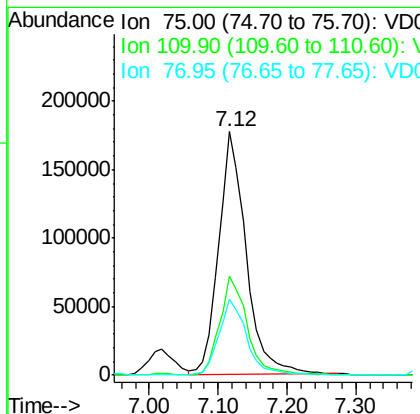
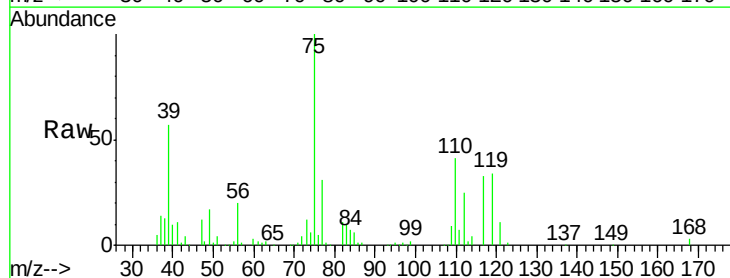
RT: 7.12 min Scan# 578

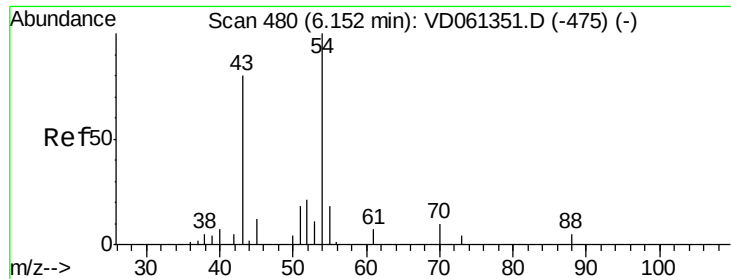
Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion:	75	Resp:	488123
Ion Ratio	Lower	Upper	
75	100		
110	40.9	20.4	61.3
77	31.1	24.9	37.3





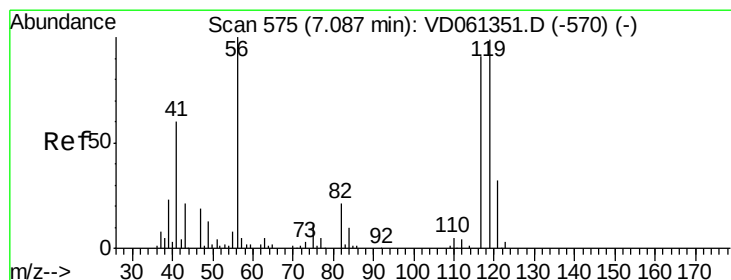
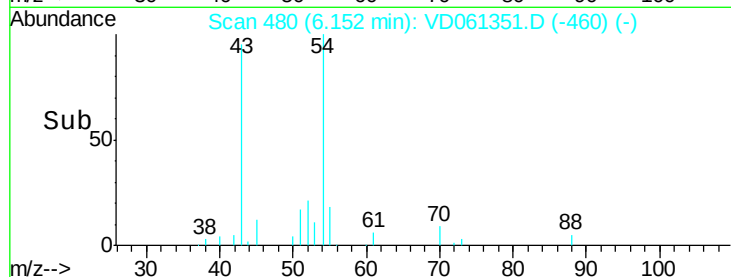
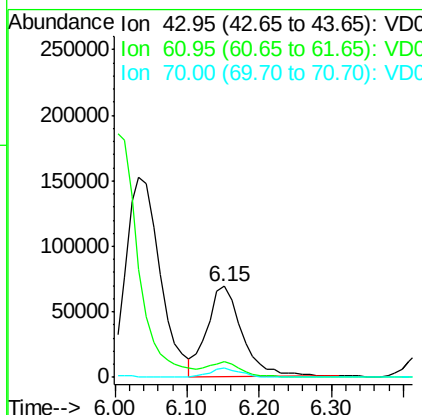
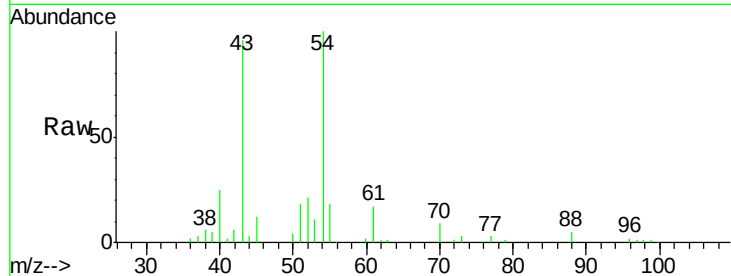
#37
Ethyl Acetate
Concen: 49.871 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.3	13.8	20.8
70	9.8	7.8	11.8

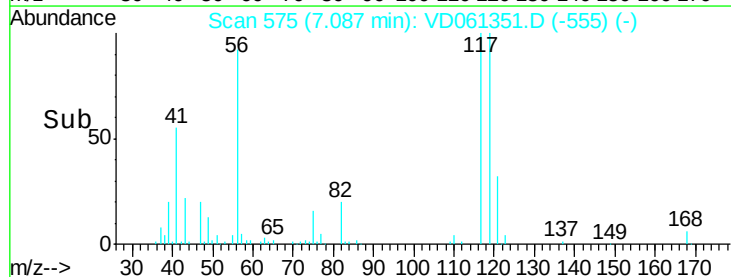
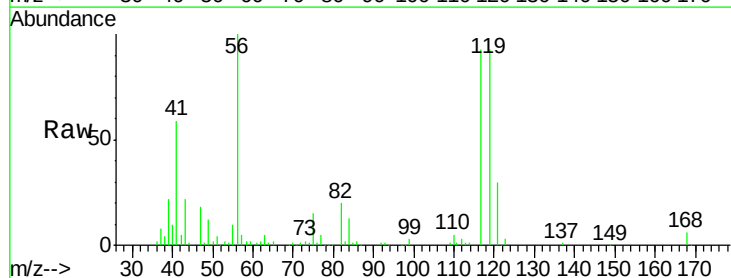
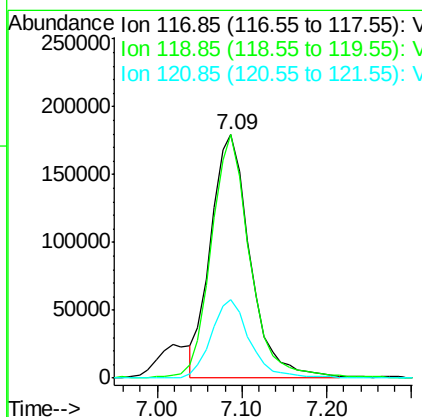
Manual Integrations
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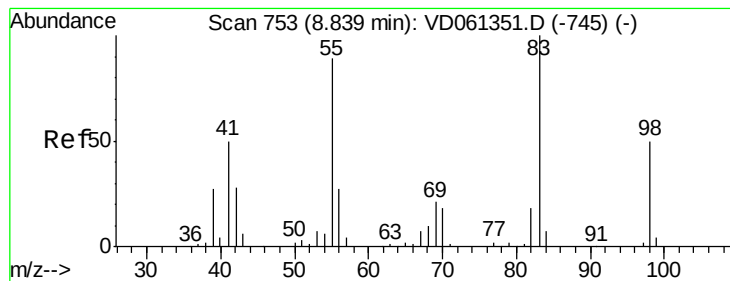
MMDadoda
4/1/2019 3:01:34 PM



#38
Carbon Tetrachloride
Concen: 47.656 ug/l m
RT: 7.09 min Scan# 575
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.1	80.1	120.1
121	32.0	25.6	38.4





#39

Methylcyclohexane

Concen: 47.302 ug/l

RT: 8.84 min Scan# 753

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 530621
Ion Ratio Lower Upper

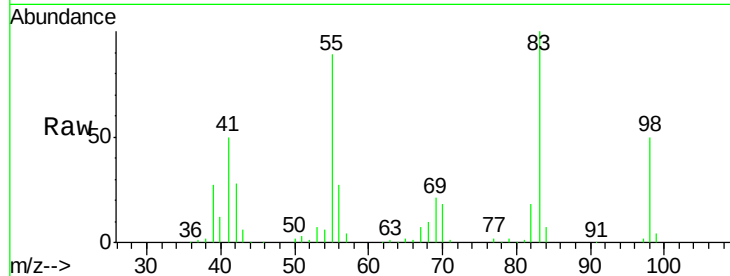
83 100

55 89.4 71.5 107.3

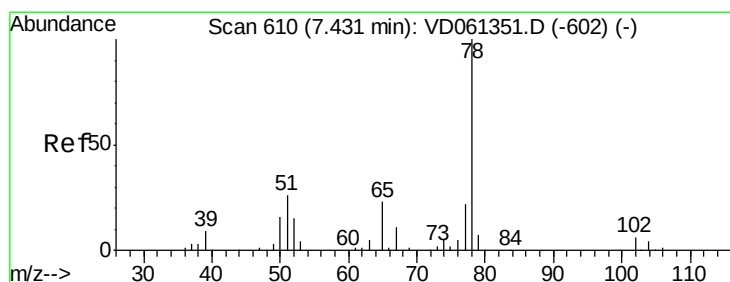
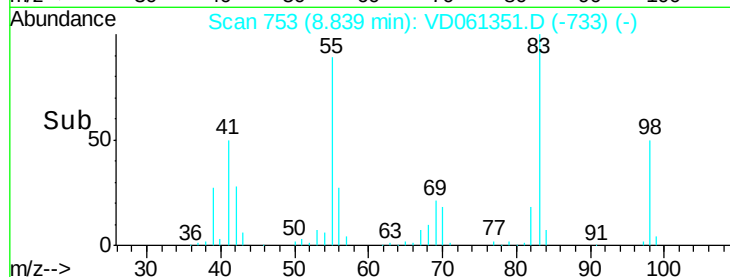
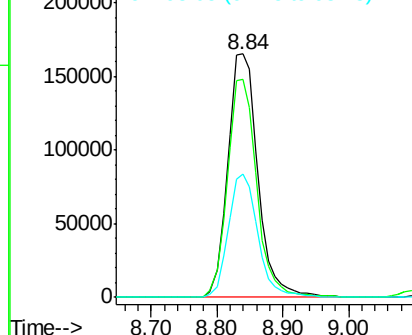
98 50.4 40.3 60.5

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



#40

Benzene

Concen: 47.866 ug/l

RT: 7.43 min Scan# 610

Delta R.T. 0.00 min

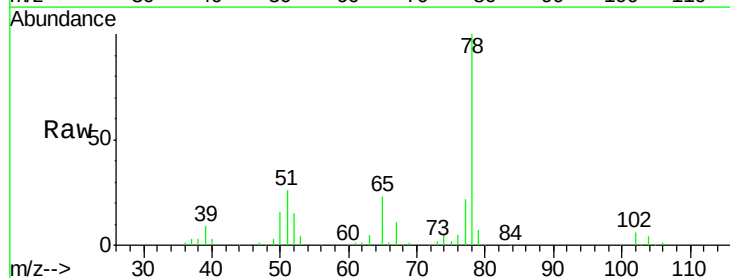
Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

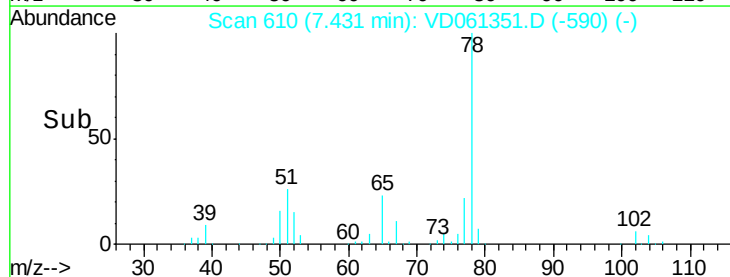
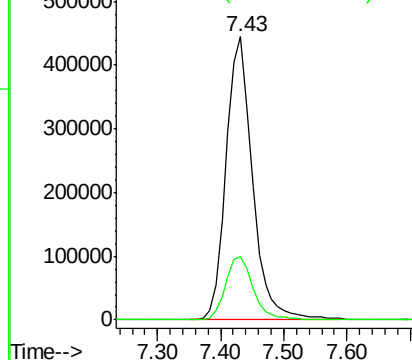
Tgt Ion: 78 Resp: 1293923
Ion Ratio Lower Upper

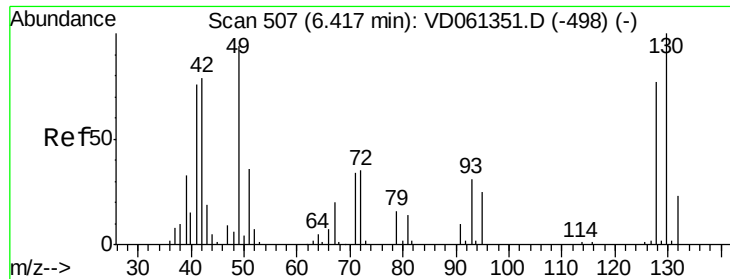
78 100

77 22.2 17.8 26.6



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





#41

Methacrylonitrile

Concen: 47.640 ug/l

RT: 6.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 256593
Ion Ratio Lower Upper

41 100

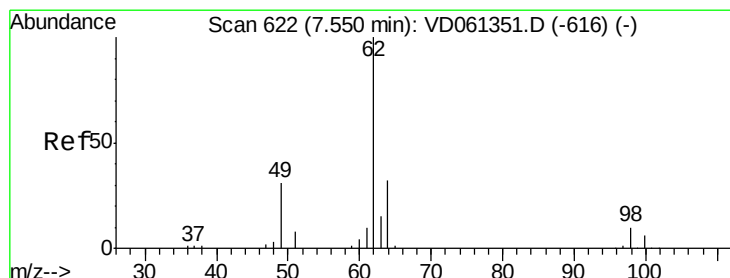
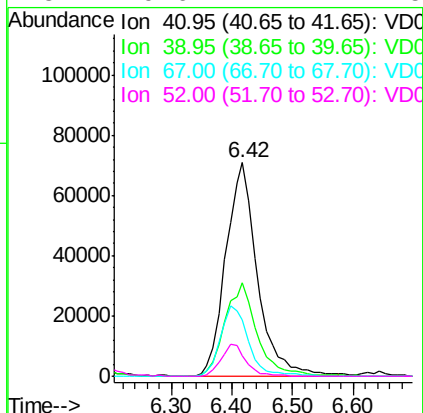
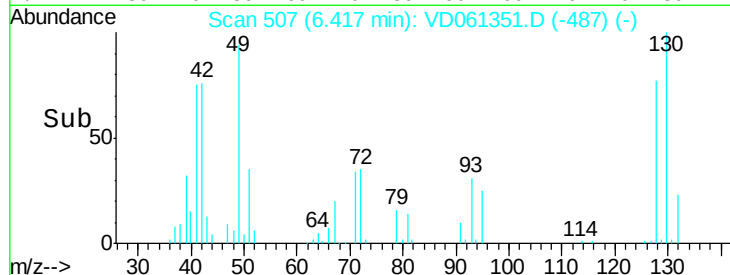
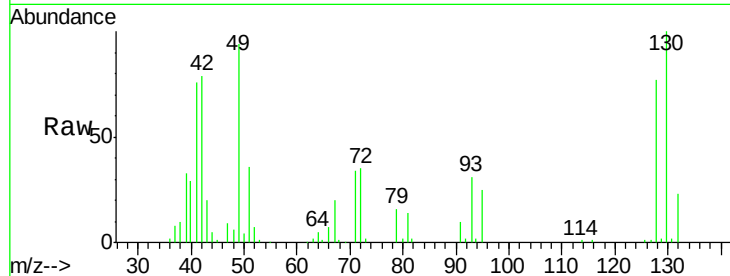
39 43.8 35.0 52.6

67 26.3 21.0 31.6

52 9.6 7.7 11.5

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 49.999 ug/l

RT: 7.55 min Scan# 622

Delta R.T. 0.00 min

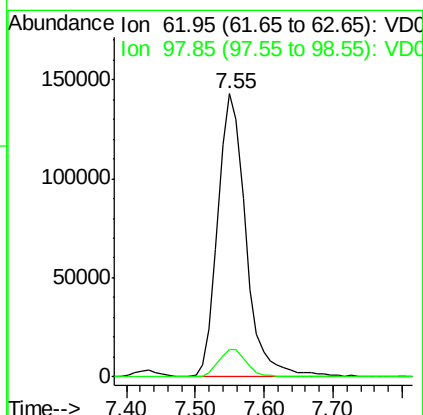
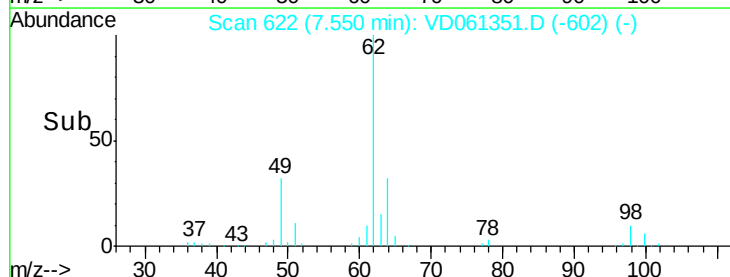
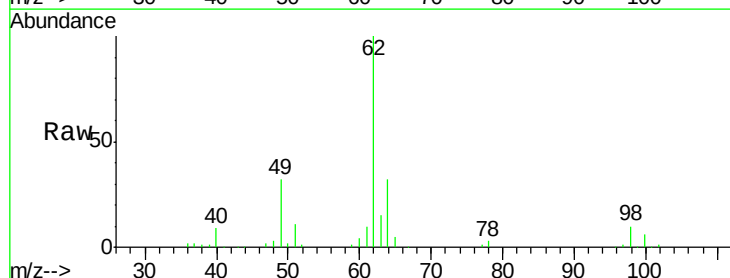
Lab File: VD061351.D

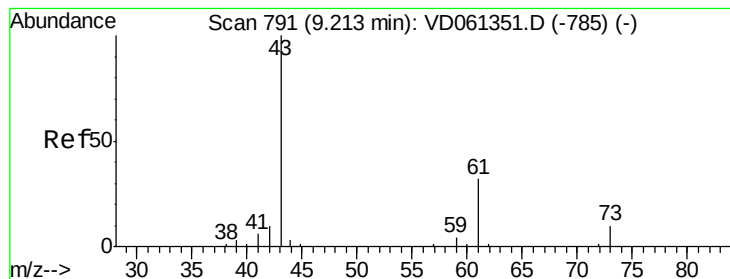
Acq: 27 Mar 2019 13:06

Tgt Ion: 62 Resp: 404290
Ion Ratio Lower Upper

62 100

98 9.9 0.0 19.8





#43

Isopropyl Acetate

Concen: 51.801 ug/l

RT: 9.21 min Scan# 791

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

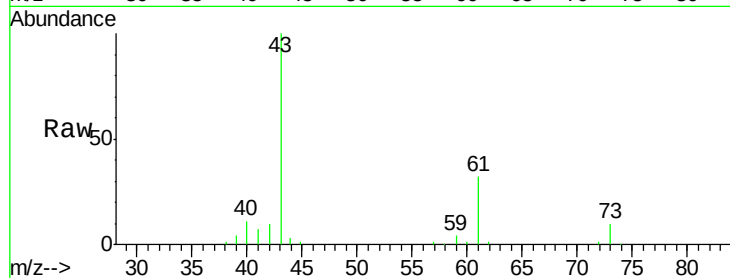
ClientSampleId :

VSTDICCC050

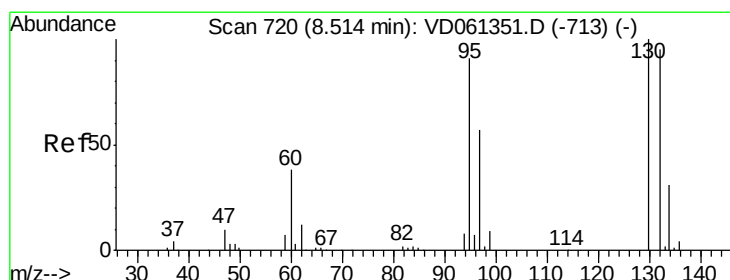
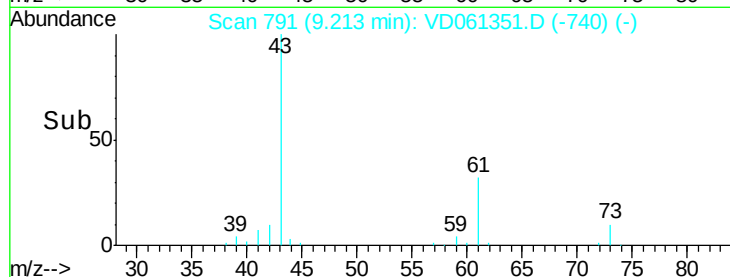
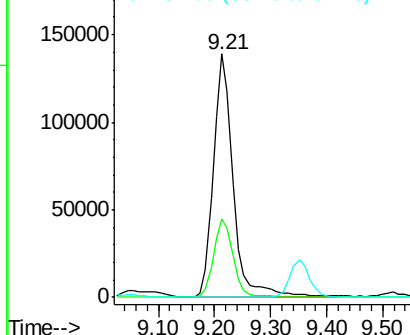
Tgt Ion:	43	Resp:	347187
Ion	Ratio	Lower	Upper
43	100		
61	32.2	25.8	38.6
87	0.0	0.0	0.0

Manual Integrations
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Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 47.323 ug/l

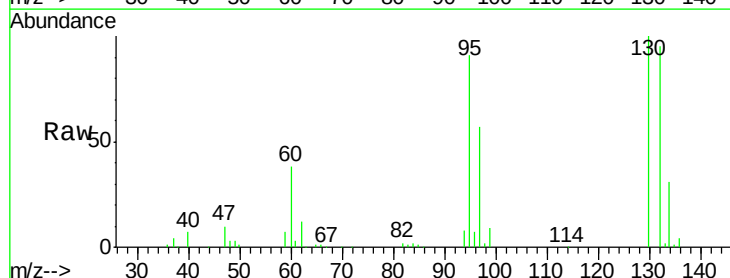
RT: 8.51 min Scan# 720

Delta R.T. 0.00 min

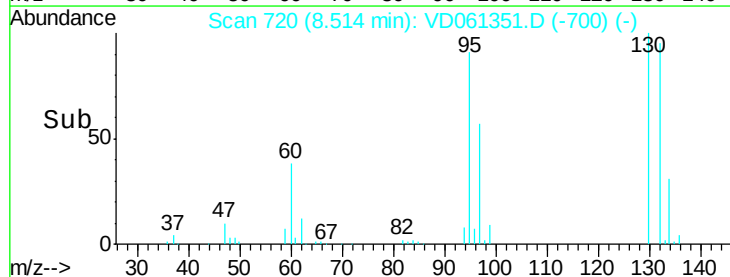
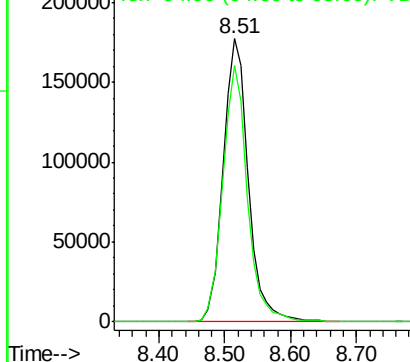
Lab File: VD061351.D

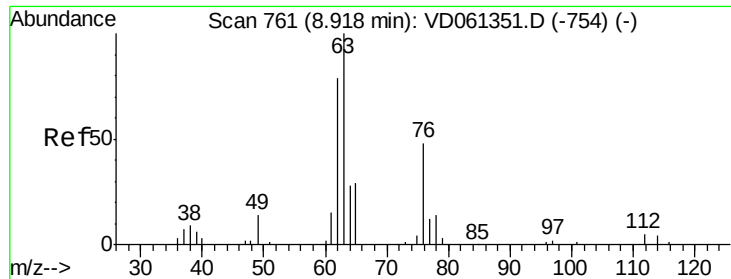
Acq: 27 Mar 2019 13:06

Tgt Ion:	130	Resp:	476065
Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	181.4



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 50.351 ug/l

RT: 8.92 min Scan# 761

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 345133

Ion Ratio Lower Upper

63 100

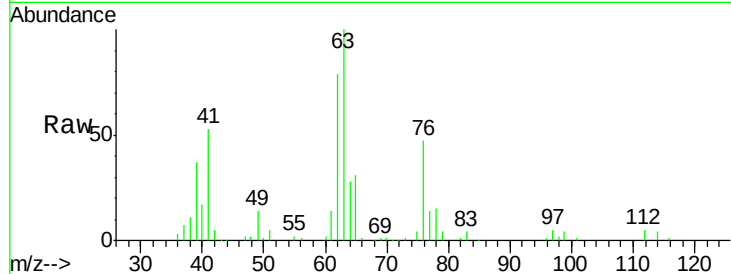
65 31.2 25.0 37.4

Manual Integrations

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.92

150000

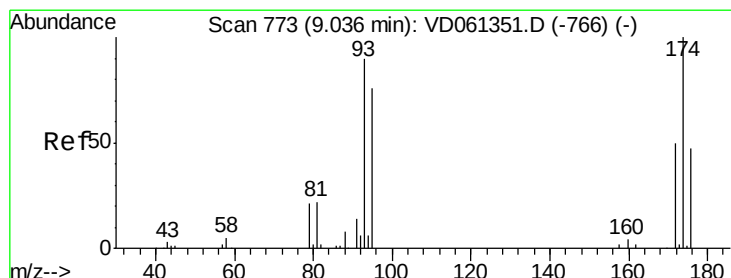
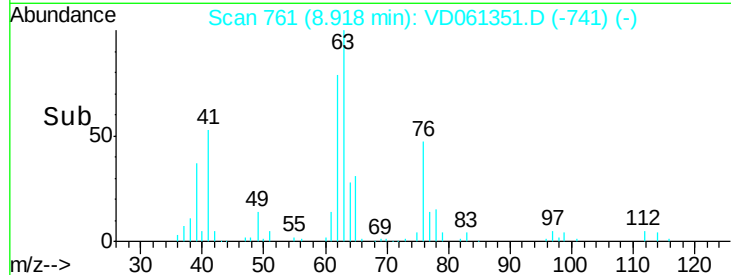
100000

50000

0

8.80 8.90 9.00 9.10

Time-->



#46

Dibromomethane

Concen: 49.254 ug/l

RT: 9.04 min Scan# 773

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

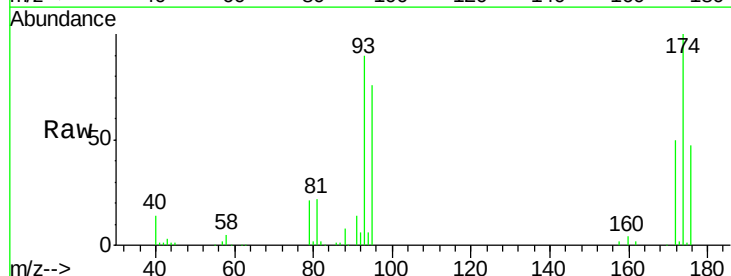
Tgt Ion: 93 Resp: 227238

Ion Ratio Lower Upper

93 100

95 84.2 67.4 101.0

174 111.1 88.9 133.3



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

9.04

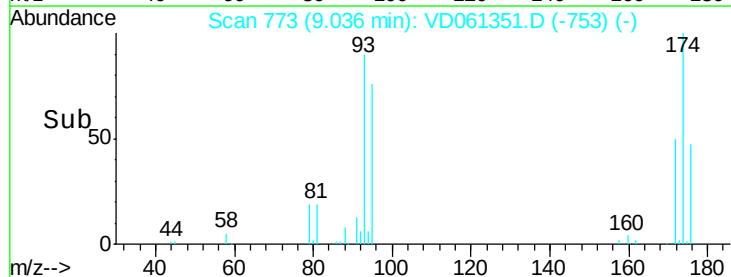
100000

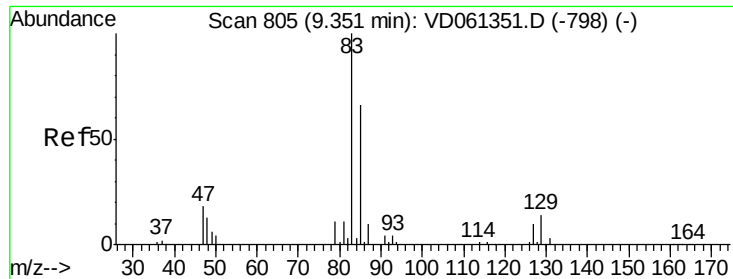
50000

0

8.90 9.00 9.10 9.20

Time-->





#47

Bromodichloromethane

Concen: 49.888 ug/l

RT: 9.35 min Scan# 805

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

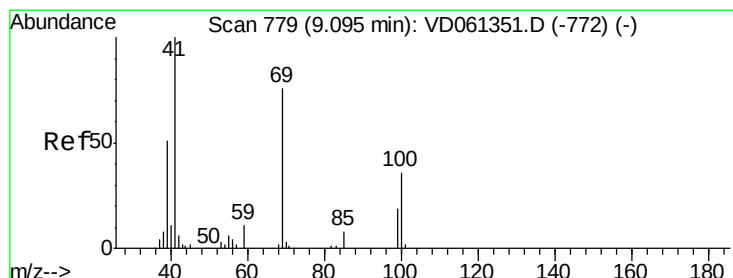
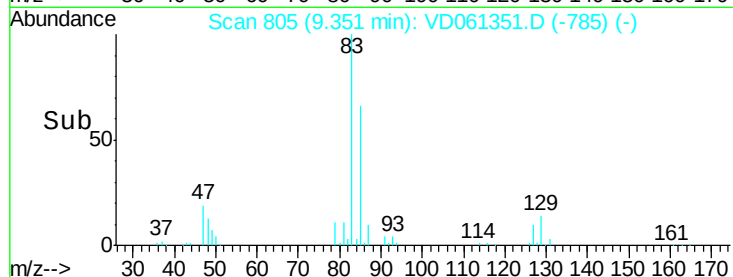
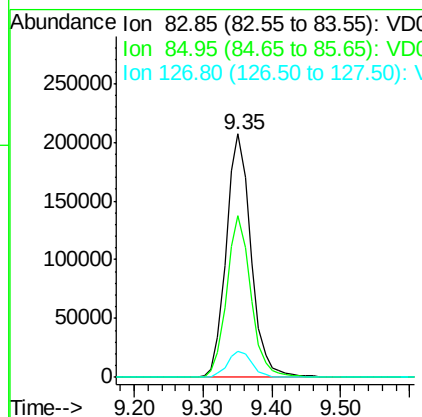
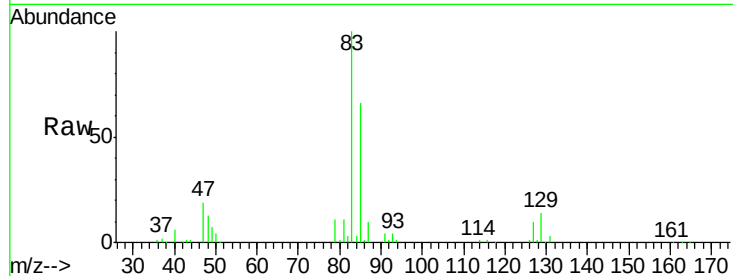
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	516588
Ion	Ratio	Lower	Upper
83	100		
85	66.2	53.0	79.4
127	10.5	8.4	12.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 47.641 ug/l

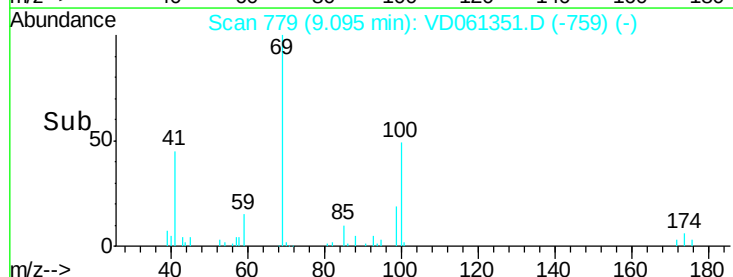
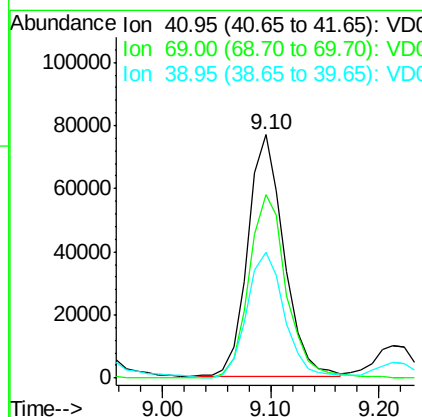
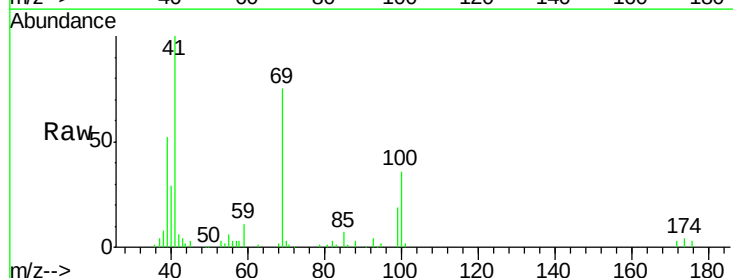
RT: 9.10 min Scan# 779

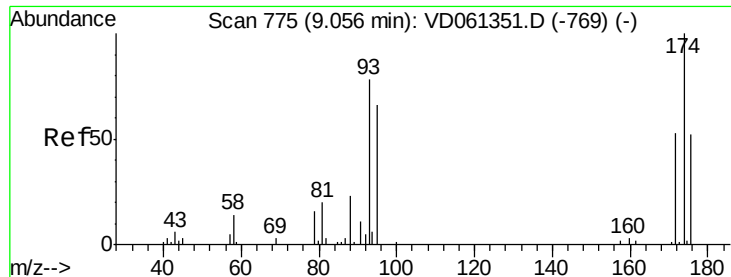
Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion:	41	Resp:	176220
Ion	Ratio	Lower	Upper
41	100		
69	75.3	60.2	90.4
39	51.8	41.4	62.2





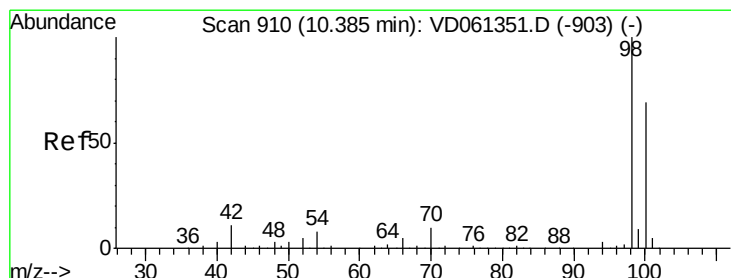
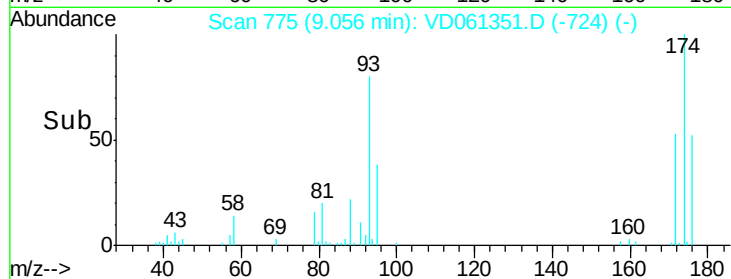
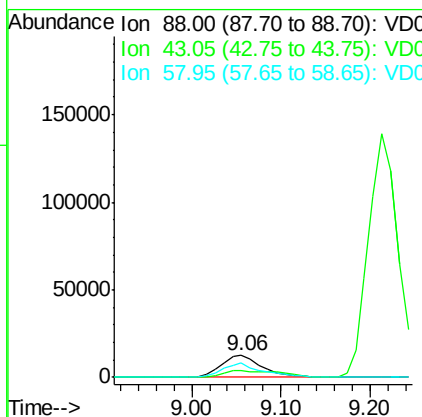
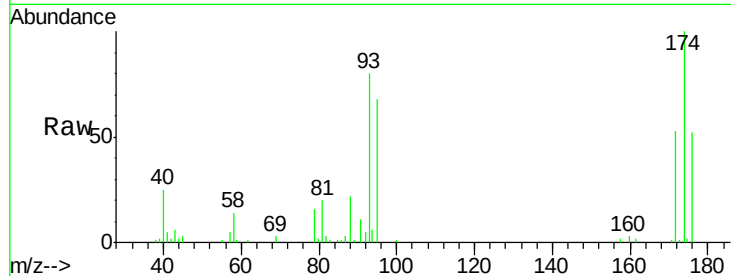
#49
1,4-Dioxane
Concen: 982.653 ug/l
RT: 9.06 min Scan# 775
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
88	100		
43	29.1	23.3	34.9
58	63.5	50.8	76.2

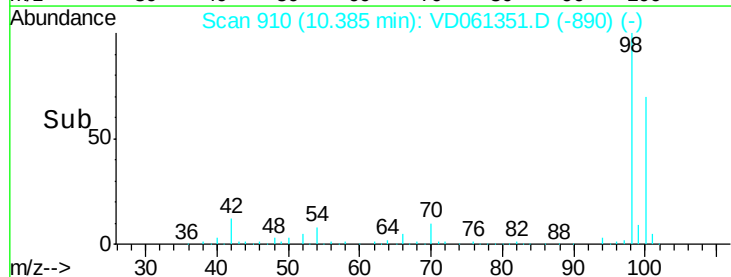
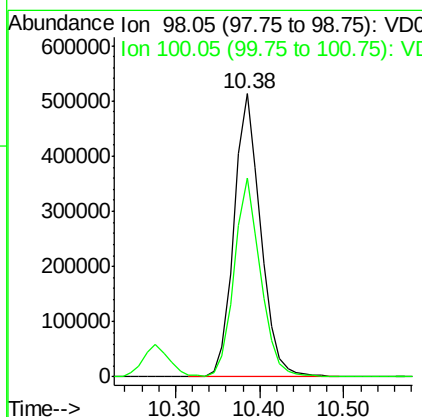
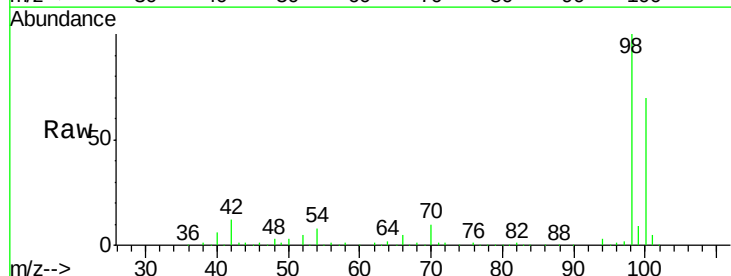
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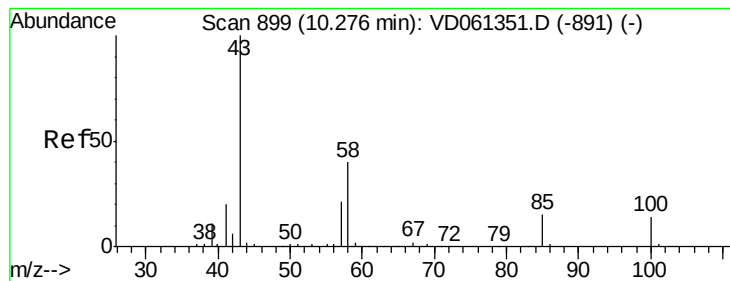
MMDadoda
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#50
Toluene-d8
Concen: 982.653 ug/l
RT: 10.38 min Scan# 910
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.2	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 244.871 ug/l

RT: 10.28 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 998492

Ion Ratio Lower Upper

43 100

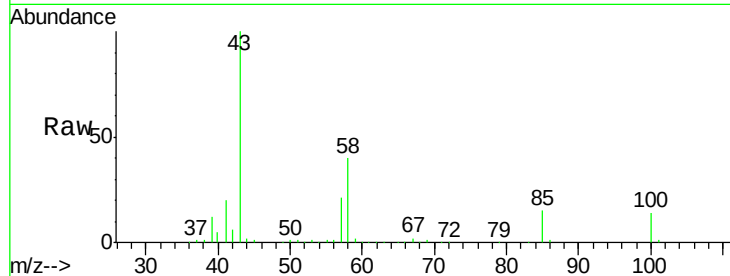
58 39.8 31.8 47.8

Manual Integrations

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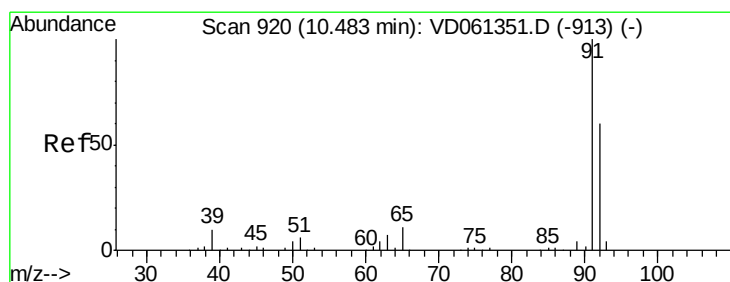
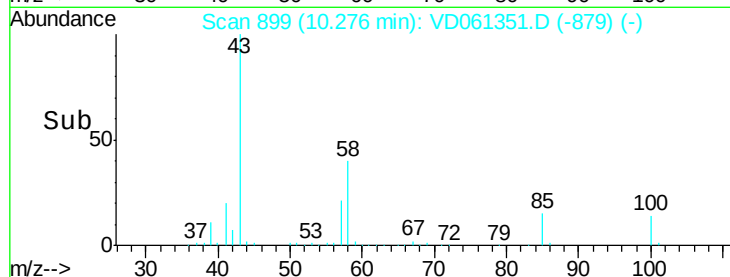
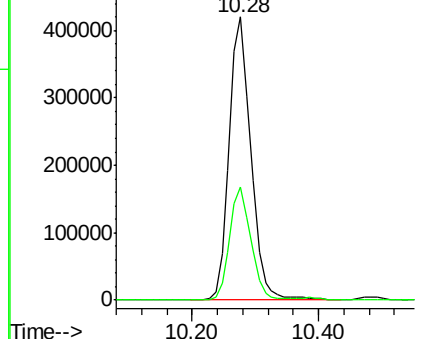
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 46.374 ug/l

RT: 10.48 min Scan# 920

Delta R.T. 0.00 min

Lab File: VD061351.D

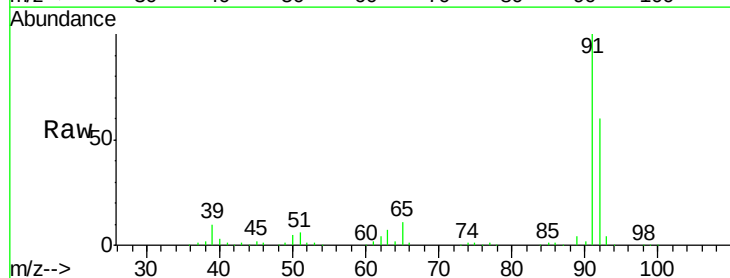
Acq: 27 Mar 2019 13:06

Tgt Ion: 92 Resp: 764770

Ion Ratio Lower Upper

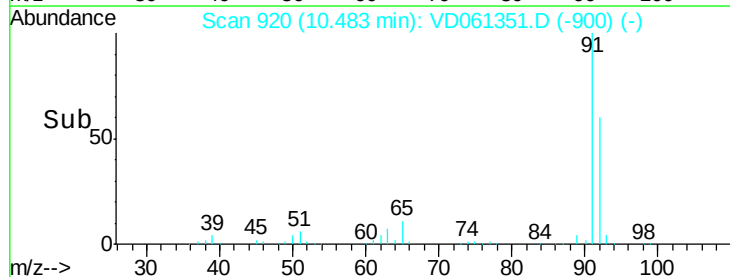
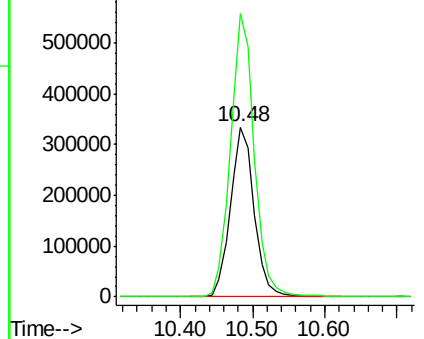
92 100

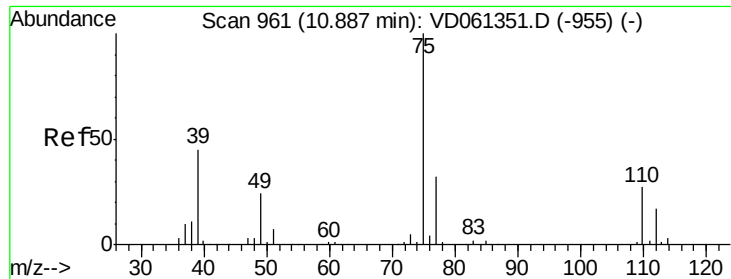
91 166.6 133.3 199.9



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: 52.753 ug/l

RT: 10.89 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 496302

Ion Ratio Lower Upper

75 100

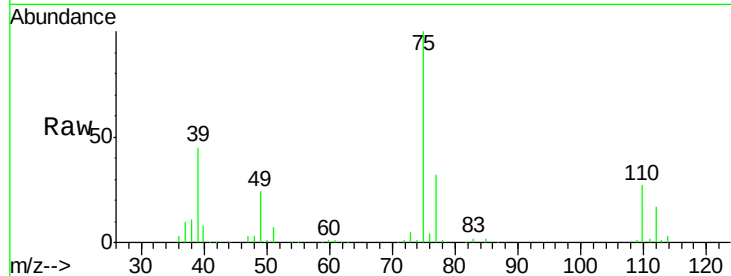
77 31.8 25.4 38.2

Manual Integrations

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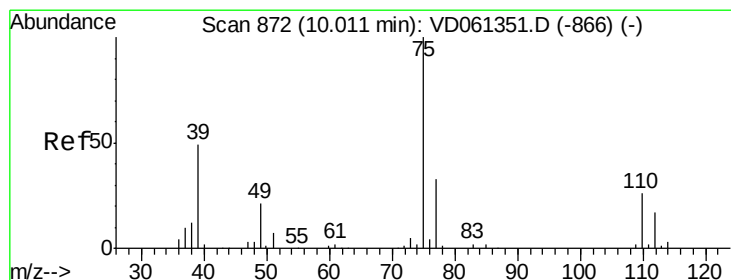
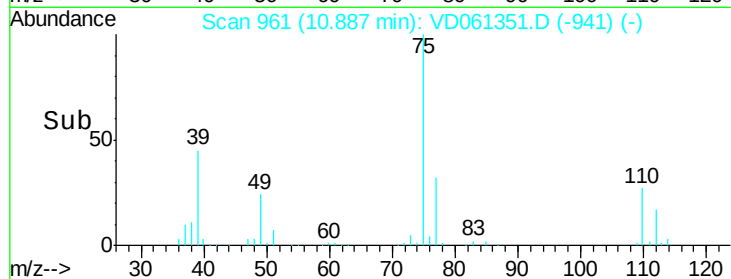
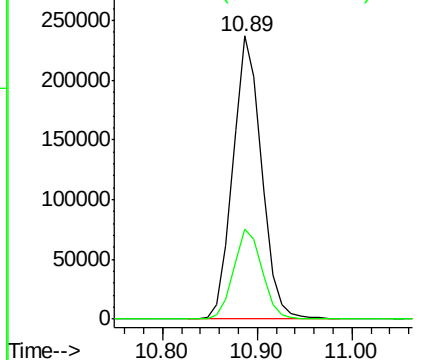
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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 48.469 ug/l

RT: 10.01 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

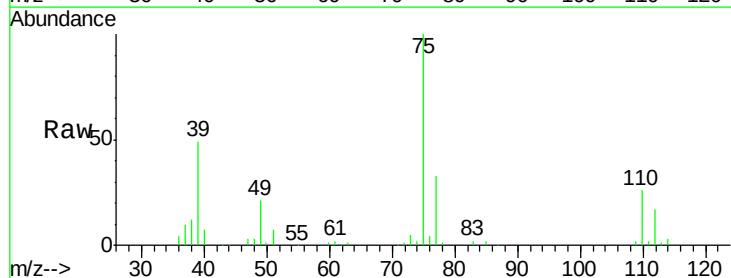
Tgt Ion: 75 Resp: 555254

Ion Ratio Lower Upper

75 100

77 32.8 26.2 39.4

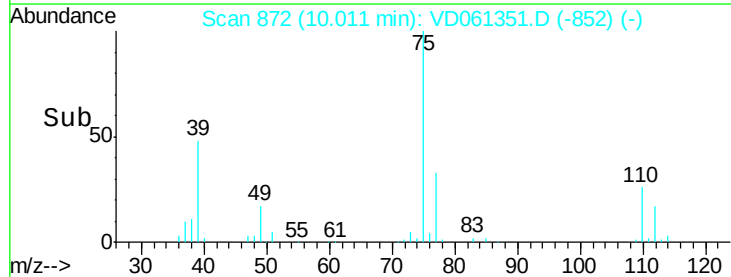
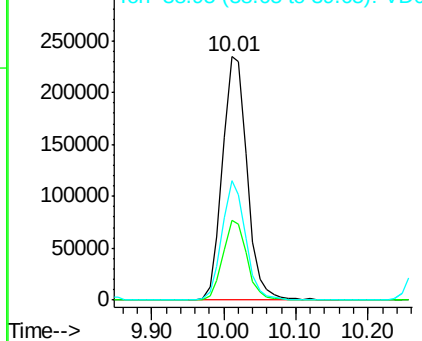
39 49.2 39.4 59.0

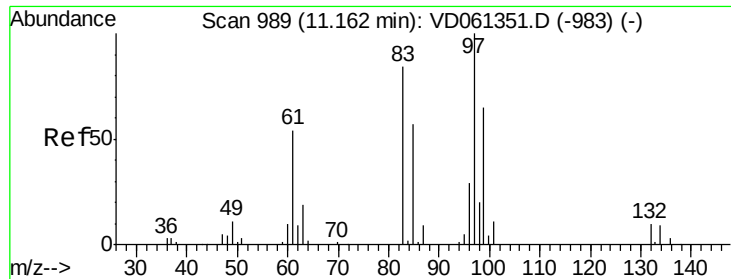


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





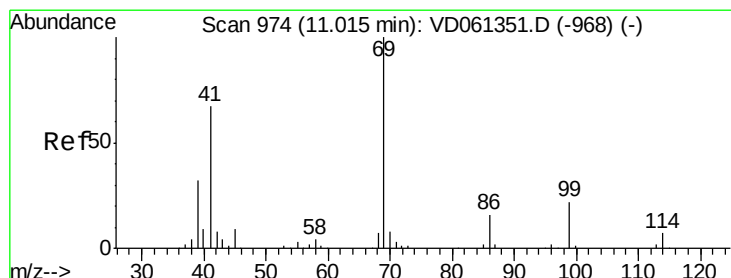
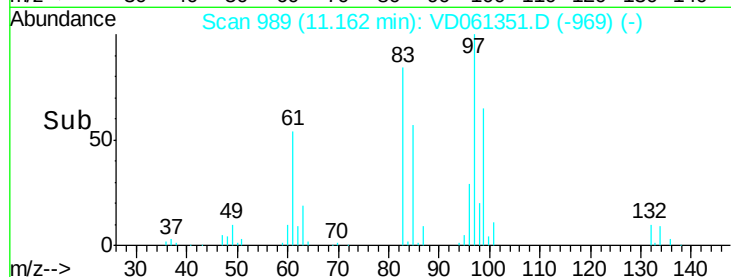
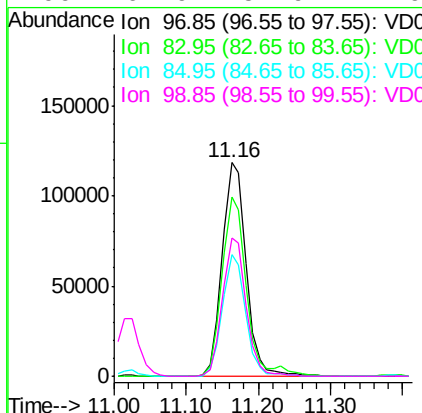
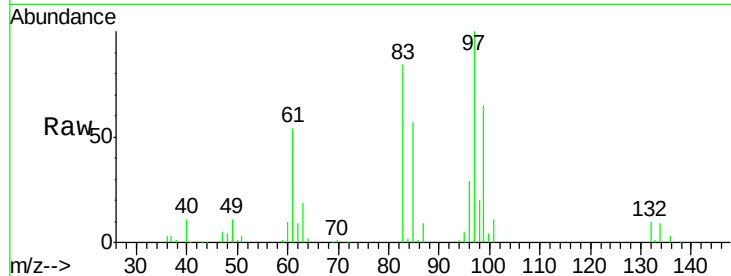
#55
 1,1,2-Trichloroethane
 Concen: 47.267 ug/l
 RT: 11.16 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion:	97	Resp:	272609
Ion	Ratio	Lower	Upper
97	100		
83	83.8	67.0	100.6
85	56.8	45.4	68.2
99	64.9	51.9	77.9

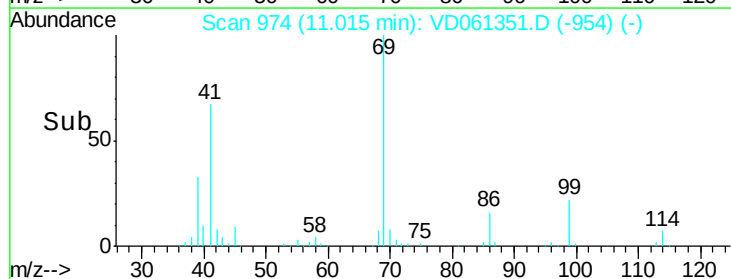
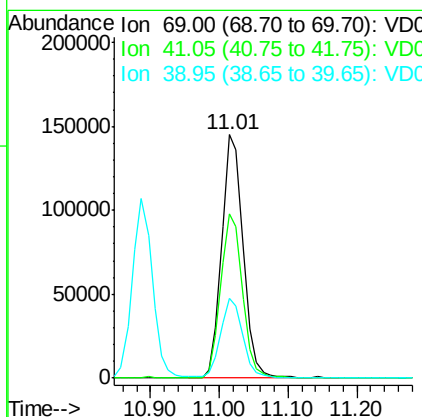
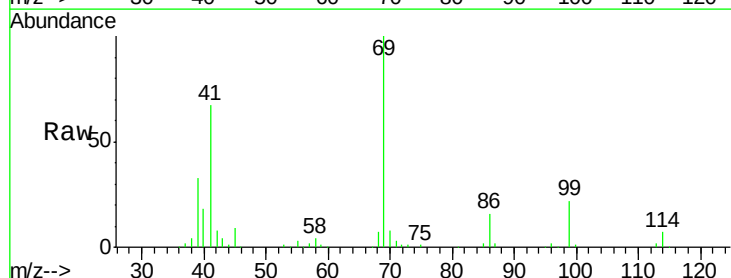
Manual Integrations
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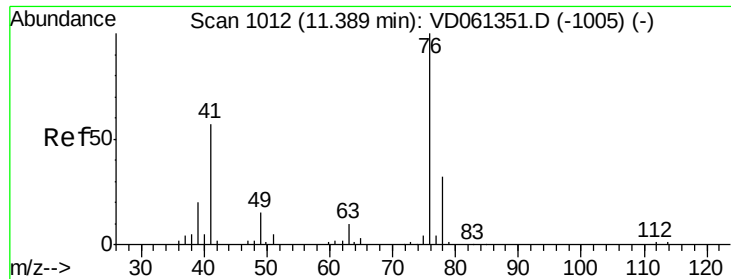
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 4/1/2019 3:01:34 PM



#56
 Ethyl methacrylate
 Concen: 50.664 ug/l
 RT: 11.01 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion:	69	Resp:	313903
Ion	Ratio	Lower	Upper
69	100		
41	67.2	53.8	80.6
39	33.0	26.4	39.6





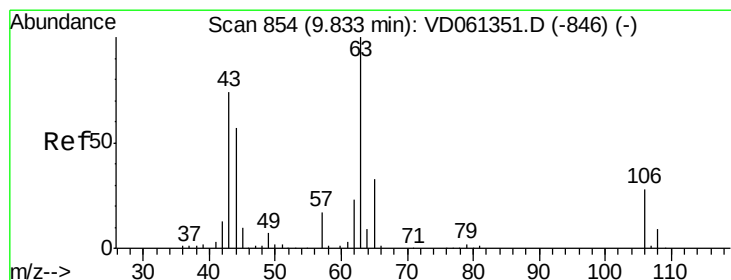
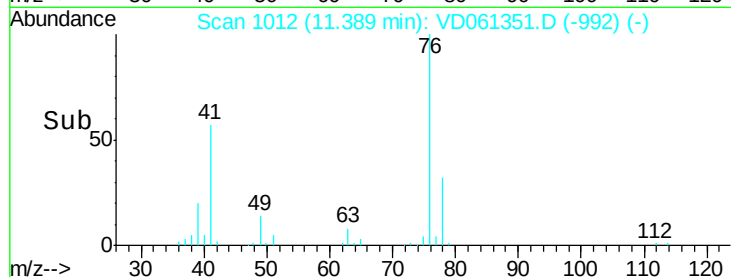
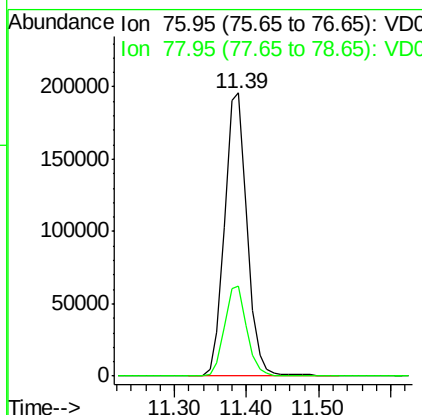
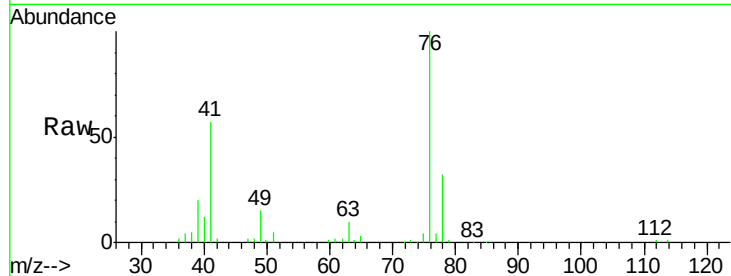
#57
 1,3-Dichloropropane
 Concen: 49.787 ug/l
 RT: 11.39 min Scan# 1012
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 76 Resp: 422053
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.4 38.0

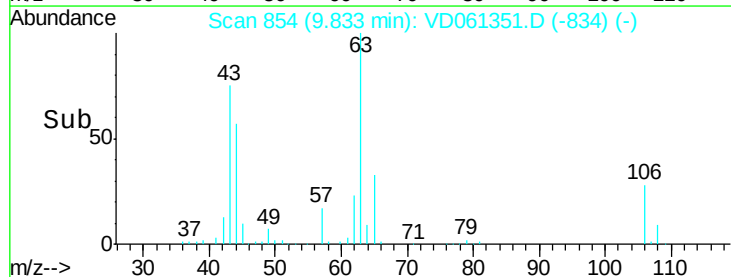
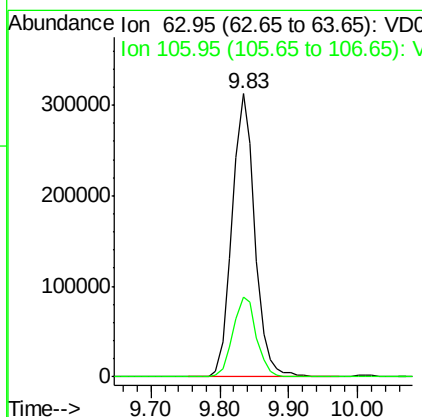
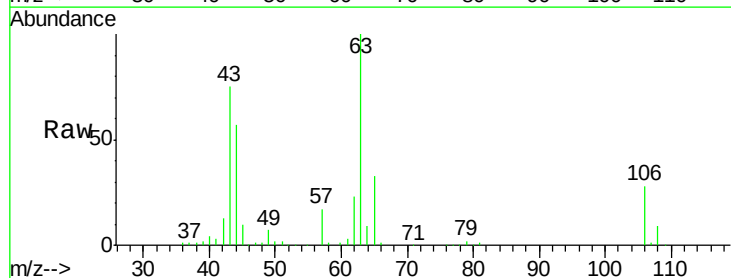
Manual Integrations
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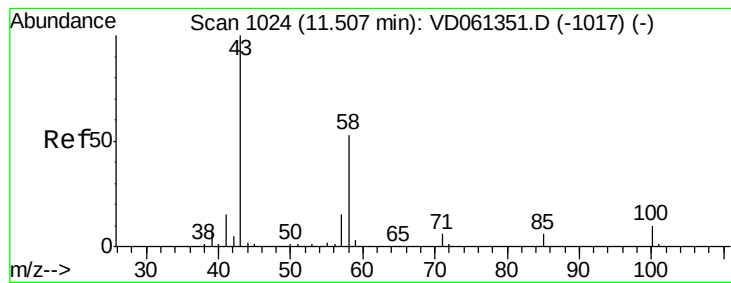
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 4/1/2019 3:01:34 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 236.688 ug/l
 RT: 9.83 min Scan# 854
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion: 63 Resp: 714163
 Ion Ratio Lower Upper
 63 100
 106 28.0 22.4 33.6





#59

2-Hexanone

Concen: 250.020 ug/l

RT: 11.51 min Scan# 1024

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 738649

Ion Ratio Lower Upper

43 100

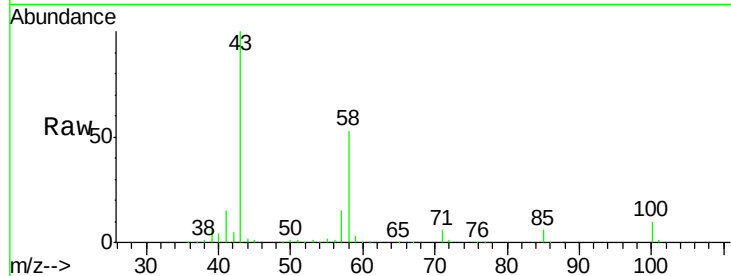
58 52.6 26.3 78.9

Manual Integrations

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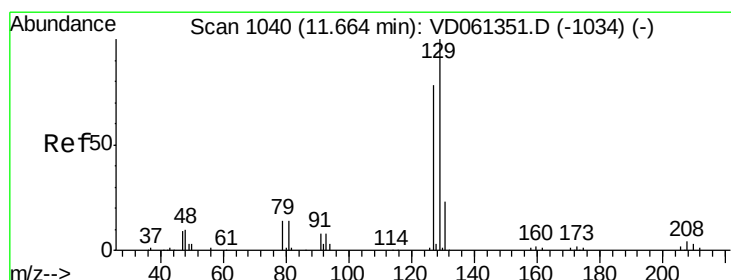
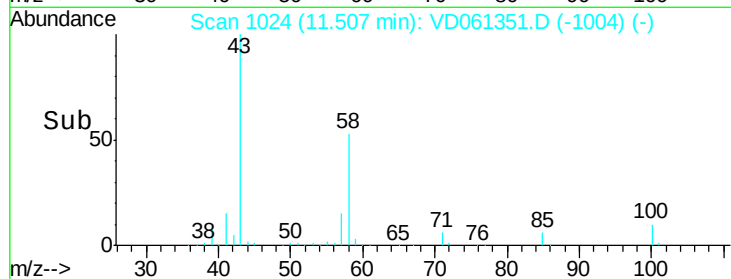
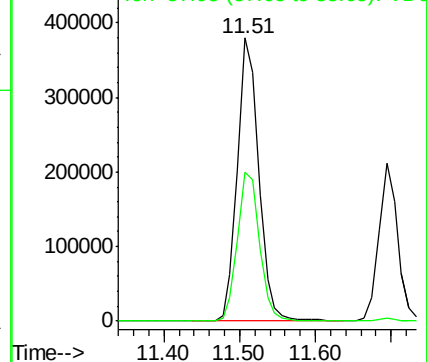
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 48.761 ug/l

RT: 11.66 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VD061351.D

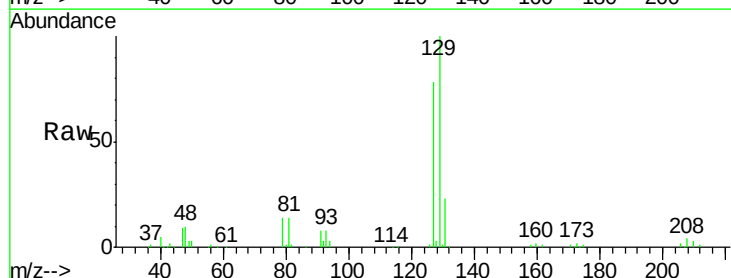
Acq: 27 Mar 2019 13:06

Tgt Ion: 129 Resp: 433543

Ion Ratio Lower Upper

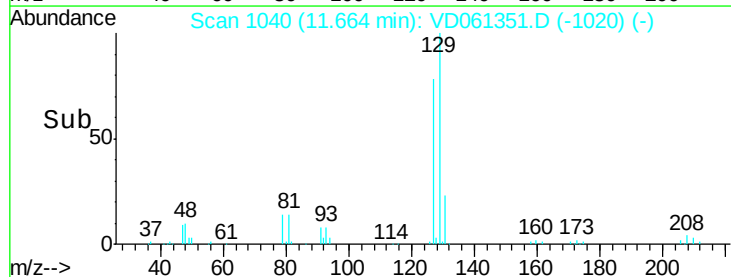
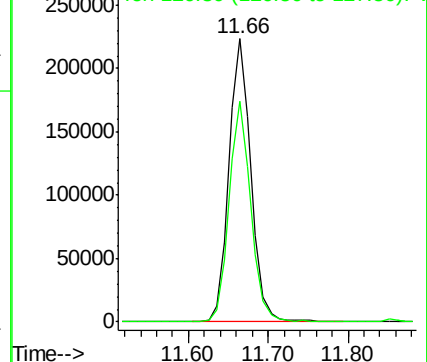
129 100

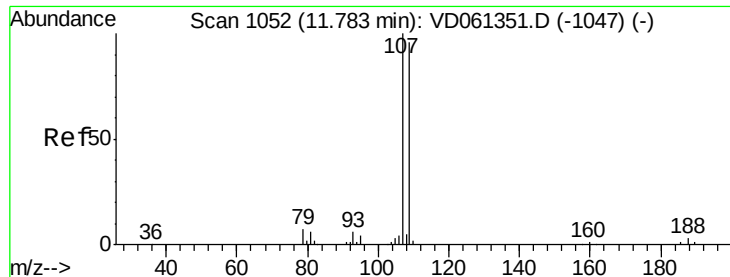
127 77.9 39.0 116.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





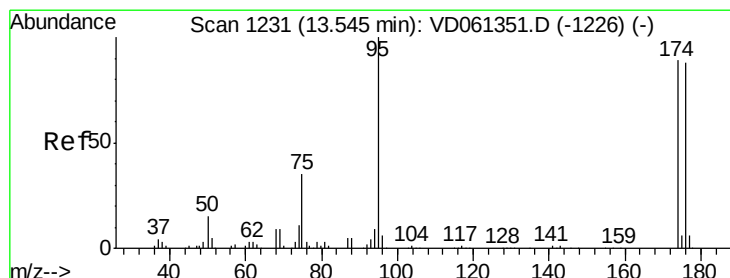
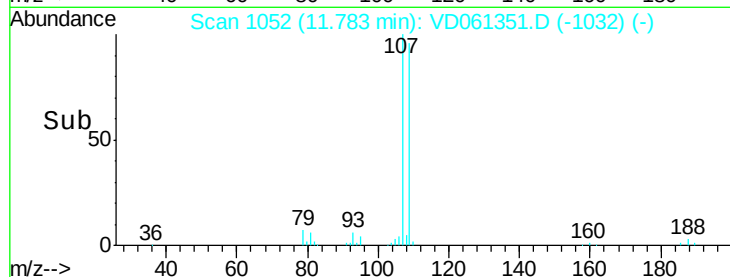
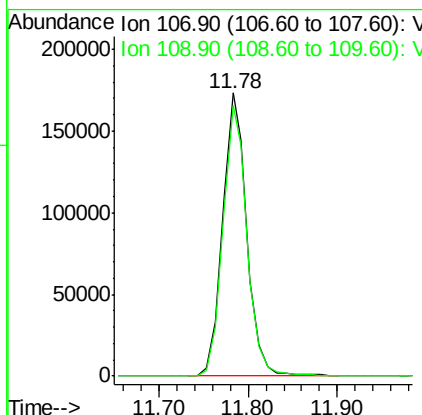
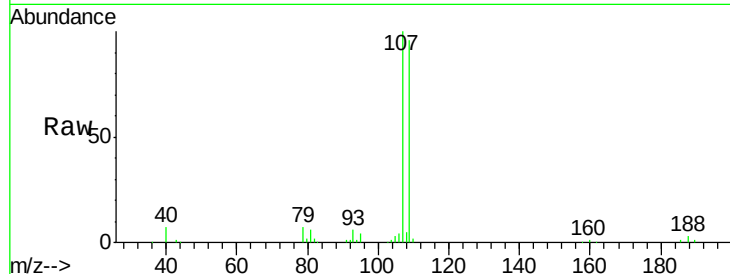
#61
 1,2-Dibromoethane
 Concen: 49.235 ug/l
 RT: 11.78 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 107 Resp: 328811
 Ion Ratio Lower Upper
 107 100
 109 95.7 76.6 114.8

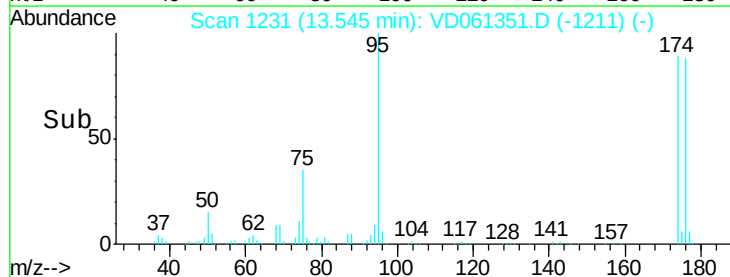
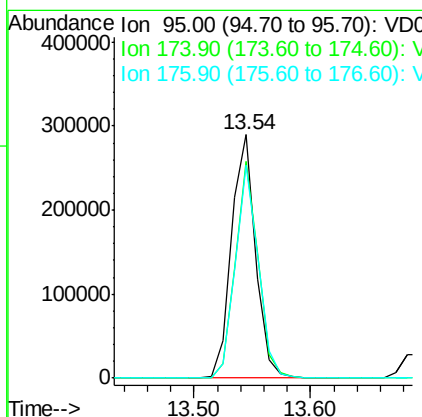
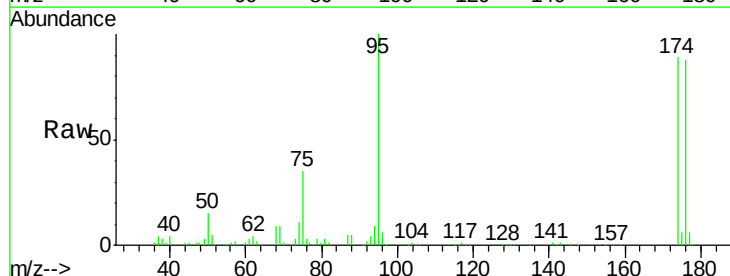
Manual Integrations
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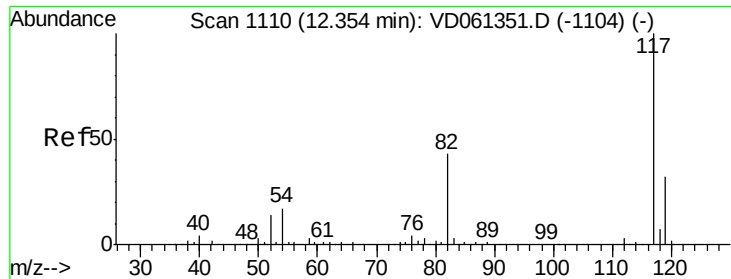
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#62
 4-Bromofluorobenzene
 Concen: 49.235 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion: 95 Resp: 412176
 Ion Ratio Lower Upper
 95 100
 174 89.0 0.0 178.0
 176 87.5 0.0 175.0





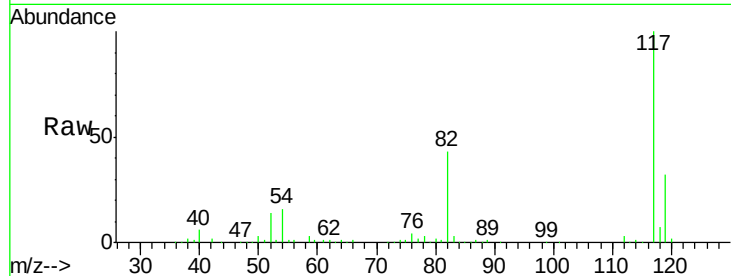
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

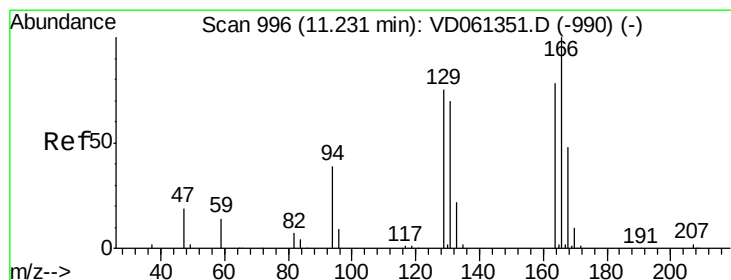
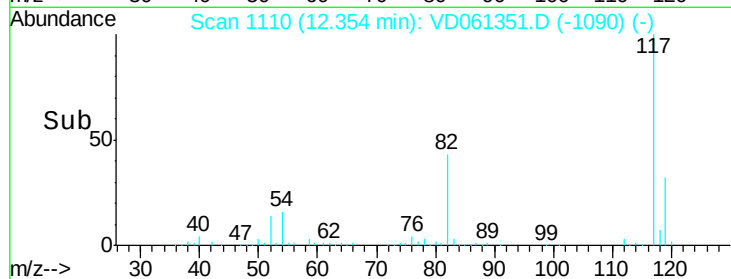
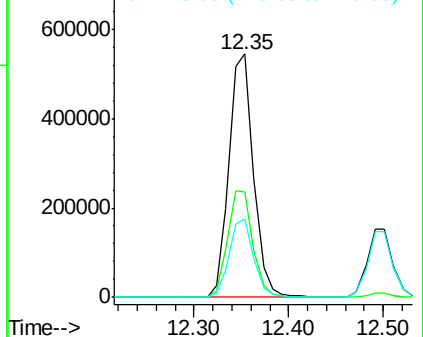
Tgt Ion	Ratio	Lower	Upper
117	100		
82	43.0	34.4	51.6
119	32.2	25.8	38.6

Manual Integrations
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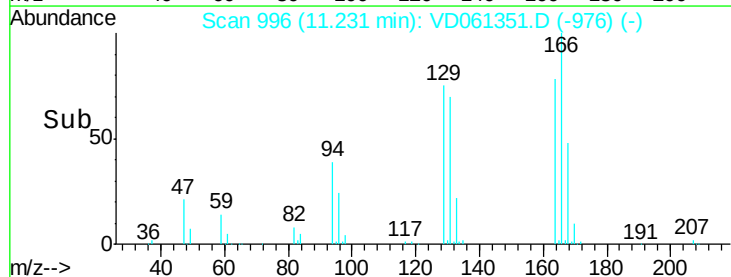
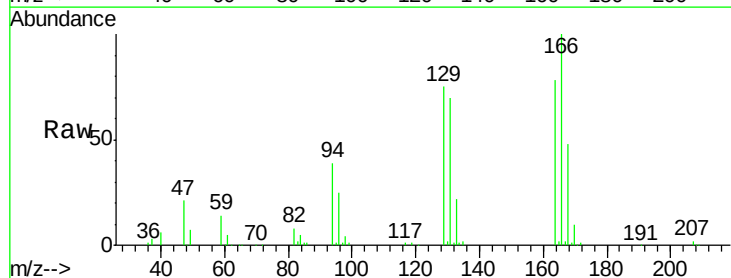
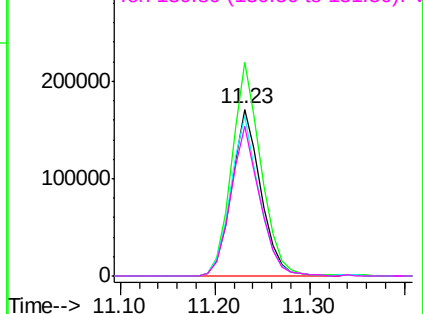
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

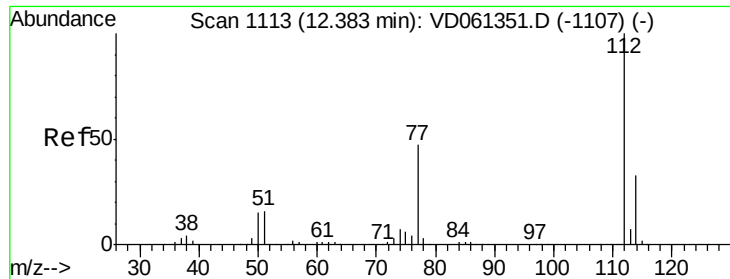


#64
Tetrachloroethene
Concen: 47.261 ug/l
RT: 11.23 min Scan# 996
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	102.4	153.6
129	96.0	76.8	115.2
131	89.7	71.8	107.6

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





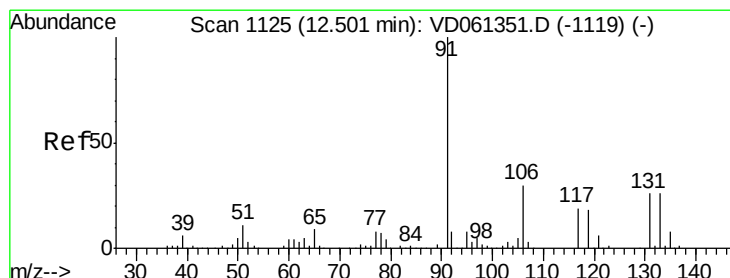
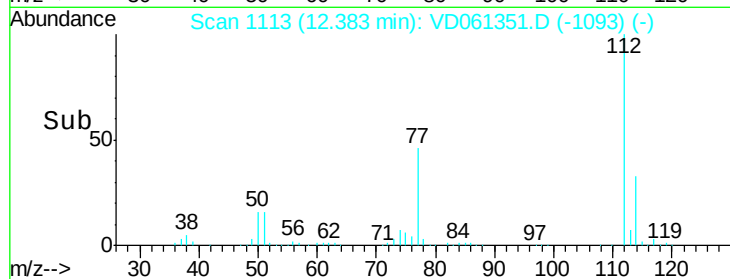
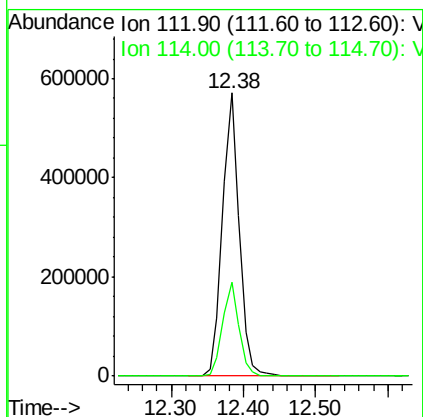
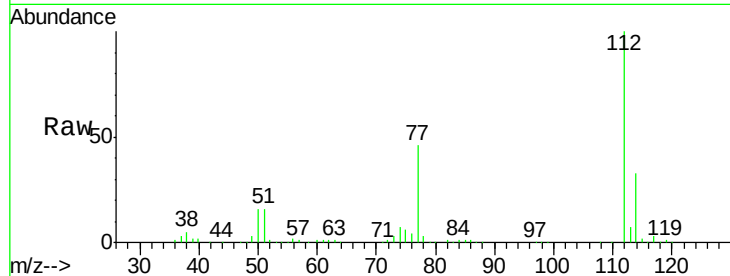
#65
Chlorobenzene
Concen: 45.818 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 917915
Ion Ratio Lower Upper
112 100
114 33.2 26.6 39.8

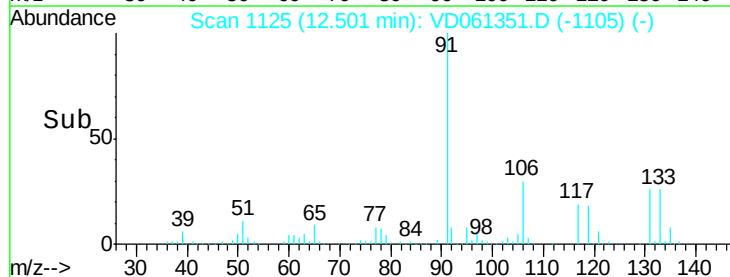
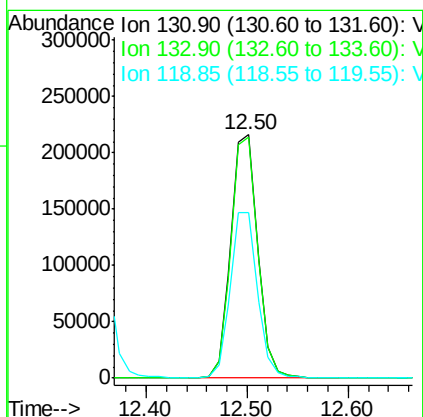
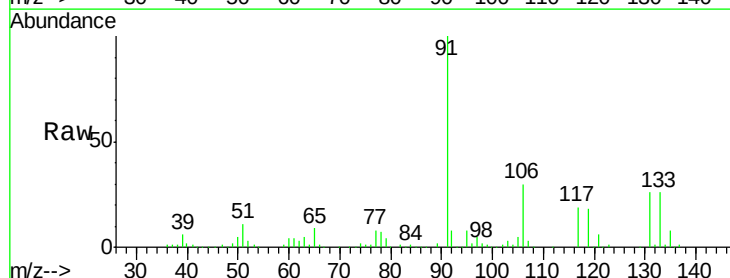
Manual Integrations
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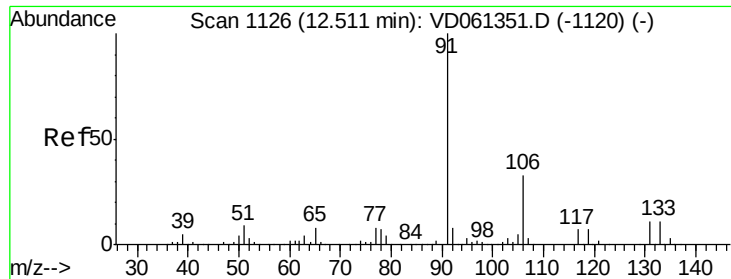
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.572 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion:131 Resp: 400043
Ion Ratio Lower Upper
131 100
133 98.8 49.4 148.2
119 68.1 34.1 102.2





#67

Ethyl Benzene

Concen: 51.478 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 1574165

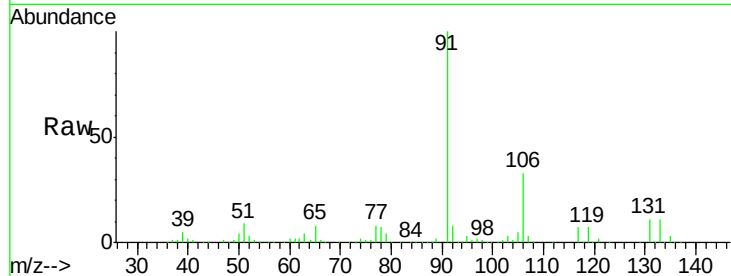
Ion Ratio Lower Upper

91 100

106 32.6 26.1 39.1

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V

1200000

1000000

800000

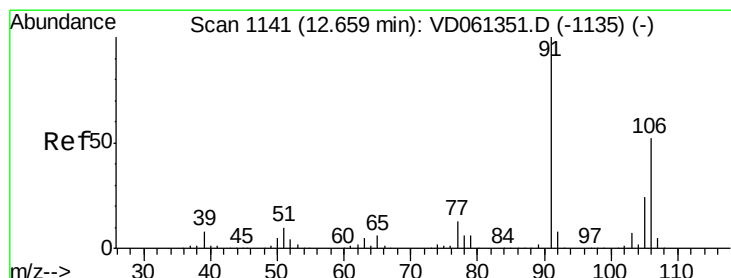
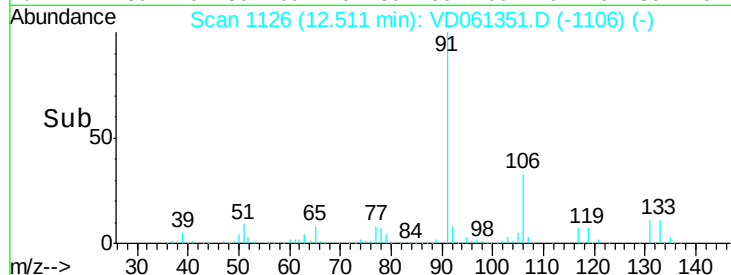
600000

400000

200000

0

Time-->



#68

m/p-Xylenes

Concen: 98.509 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VD061351.D

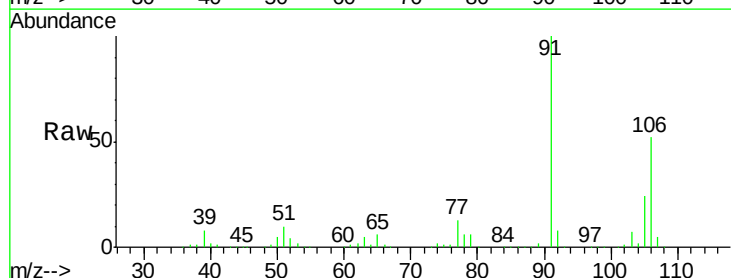
Acq: 27 Mar 2019 13:06

Tgt Ion: 106 Resp: 1141077

Ion Ratio Lower Upper

106 100

91 191.4 153.1 229.7



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

1200000

1000000

800000

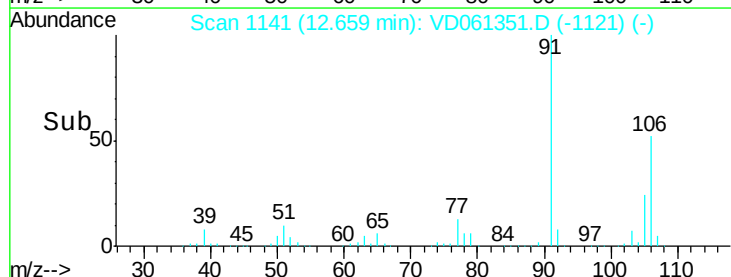
600000

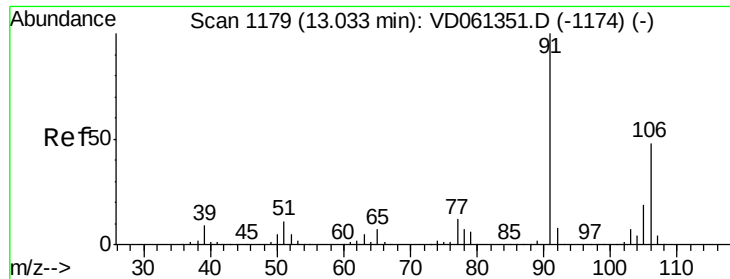
400000

200000

0

Time-->





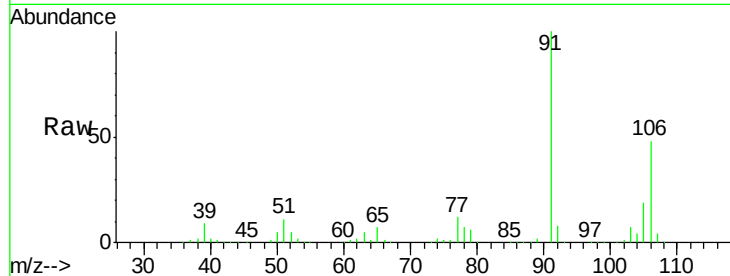
#69
o-Xylene
Concen: 51.854 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

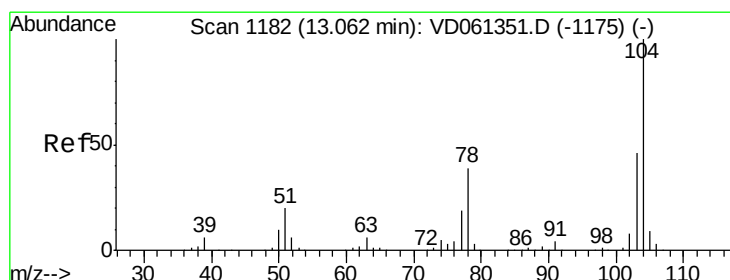
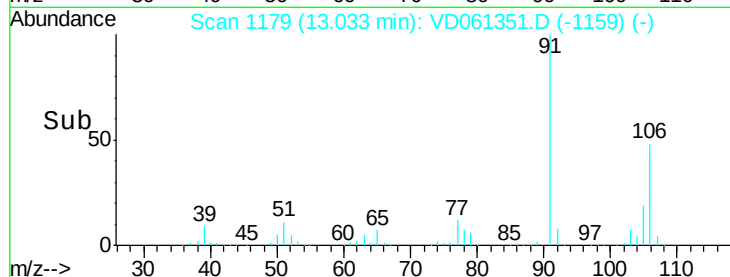
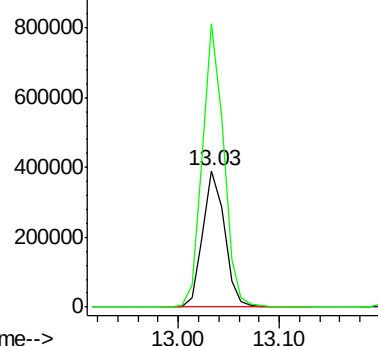
Tgt Ion:106 Resp: 582883
Ion Ratio Lower Upper
106 100
91 207.5 103.8 311.3

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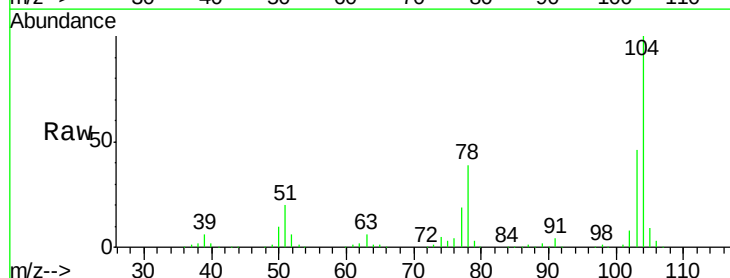


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

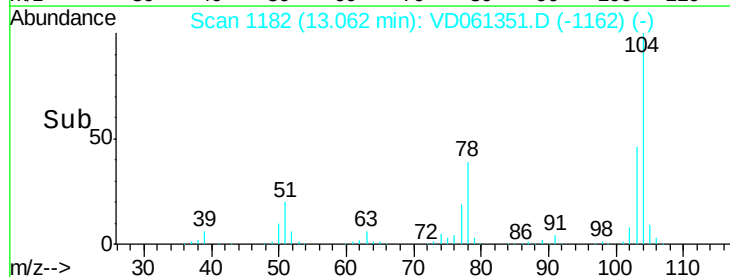
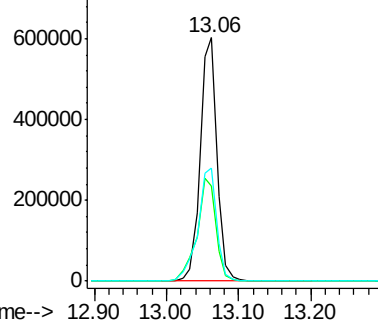


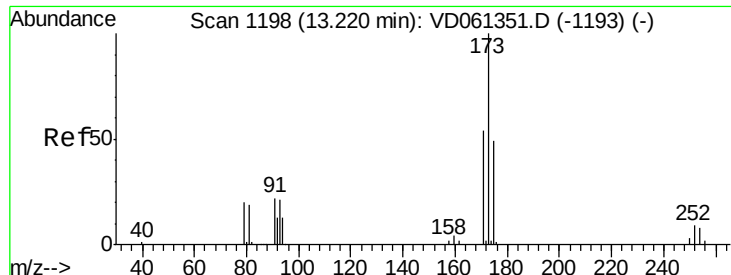
#70
Styrene
Concen: 49.228 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion:104 Resp: 964625
Ion Ratio Lower Upper
104 100
78 38.8 31.0 46.6
103 46.2 37.0 55.4



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





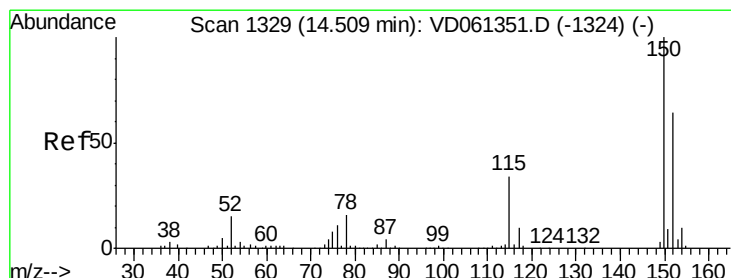
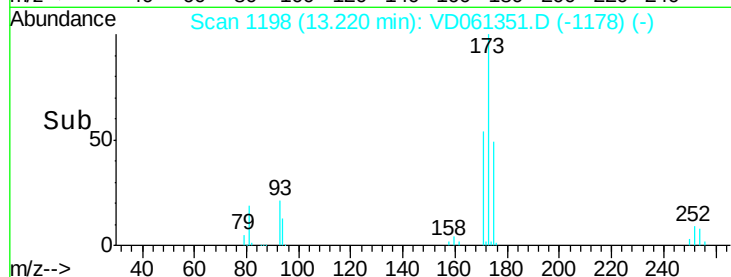
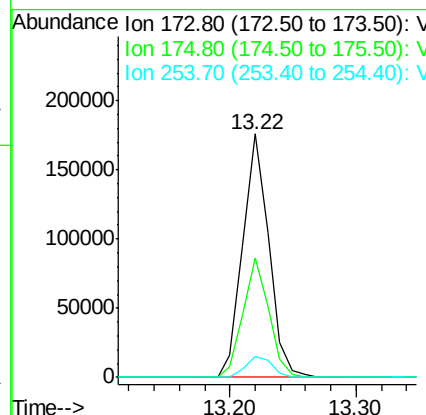
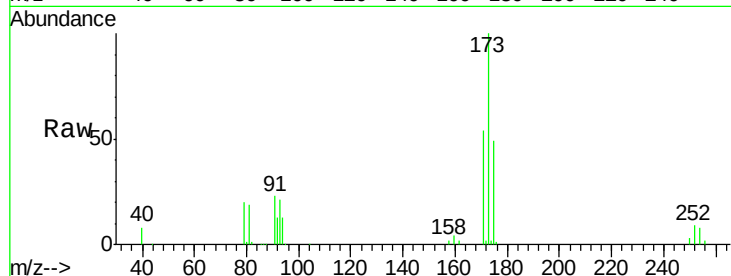
#71
Bromoform
Concen: 51.179 ug/l
RT: 13.22 min Scan# 1198
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	8.3	6.6	10.0

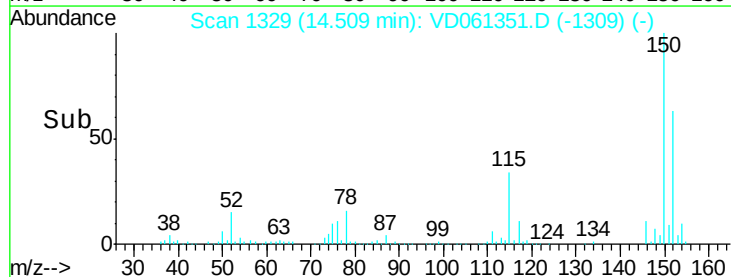
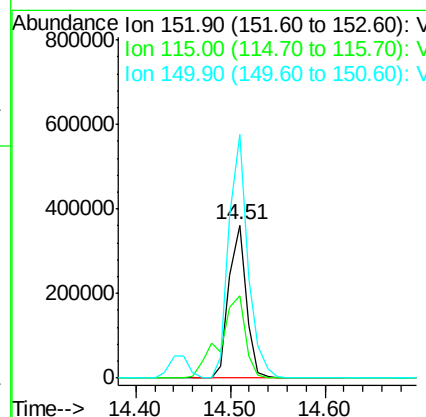
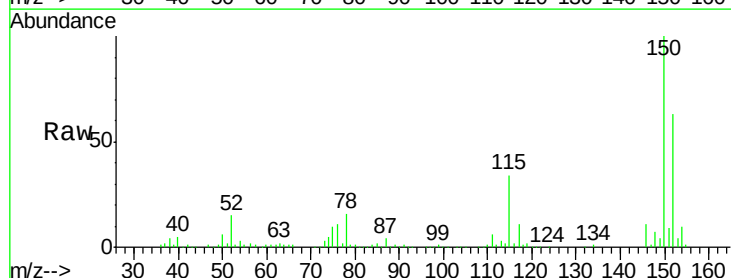
Manual Integrations
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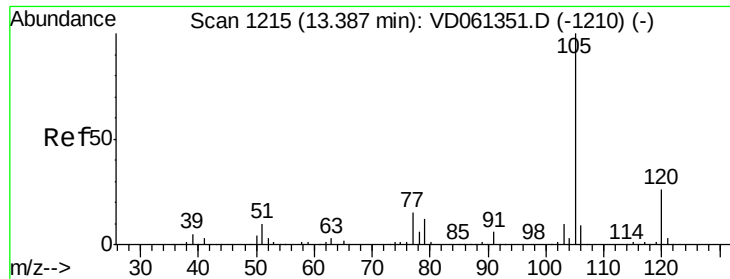
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.7	26.9	80.6
150	159.0	0.0	318.0





#73

Isopropylbenzene

Concen: 45.491 ug/l

RT: 13.39 min Scan# 1215

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 1460405

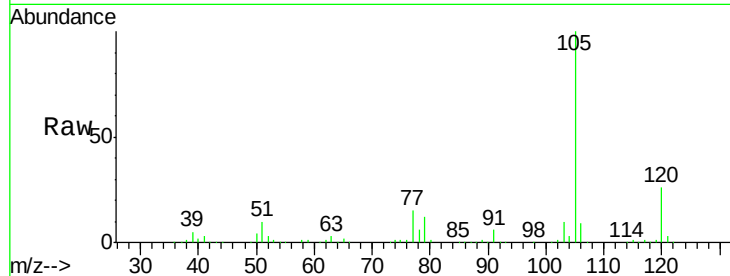
Ion Ratio Lower Upper

105 100

120 25.5 12.8 38.3

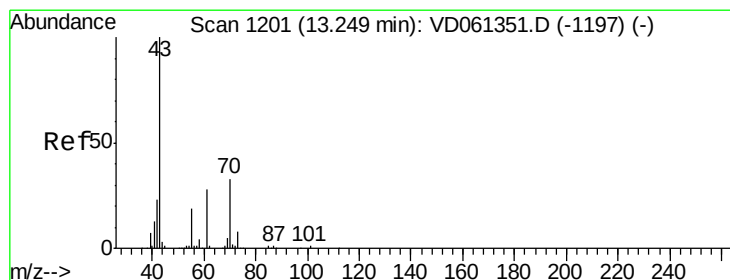
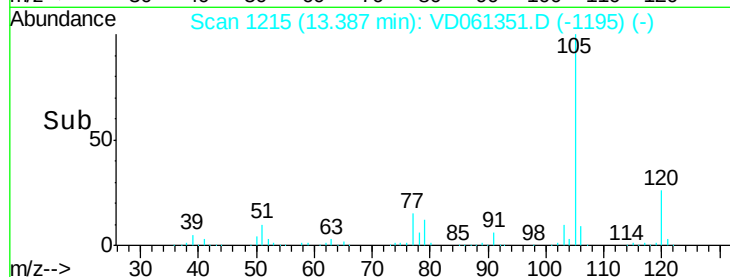
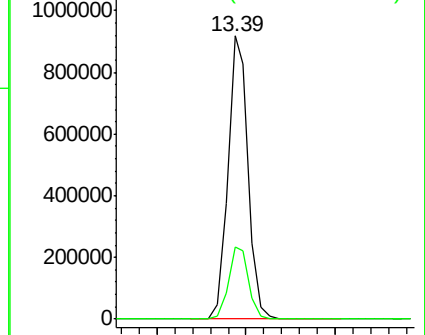
Manual Integrations
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 45.275 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion: 43 Resp: 404896

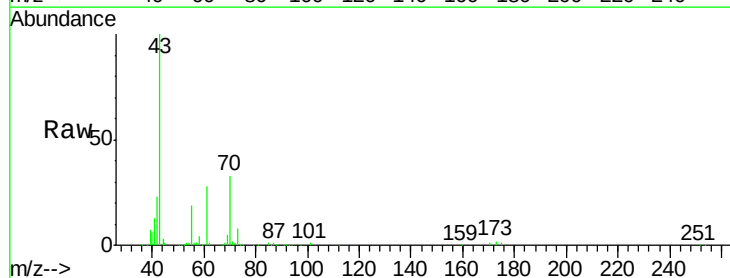
Ion Ratio Lower Upper

43 100

70 33.3 26.6 40.0

55 19.3 15.4 23.2

61 27.8 22.2 33.4

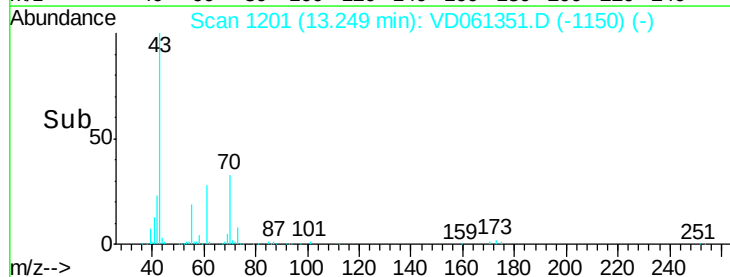
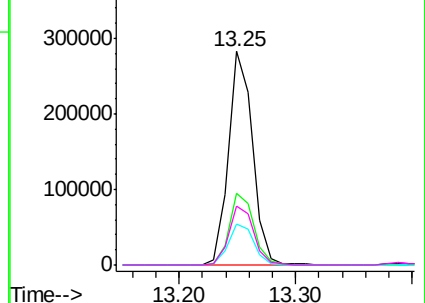


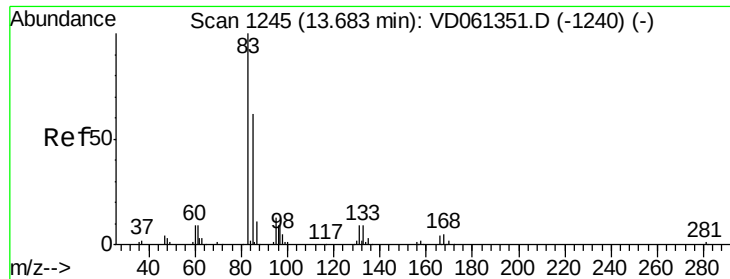
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 44.856 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 303774
Ion Ratio Lower Upper

83 100

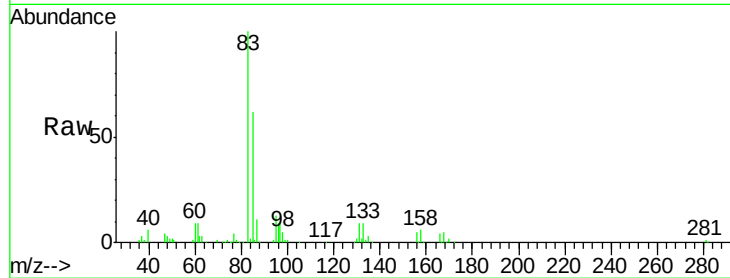
131 8.7 4.3 13.1

85 62.4 31.2 93.6

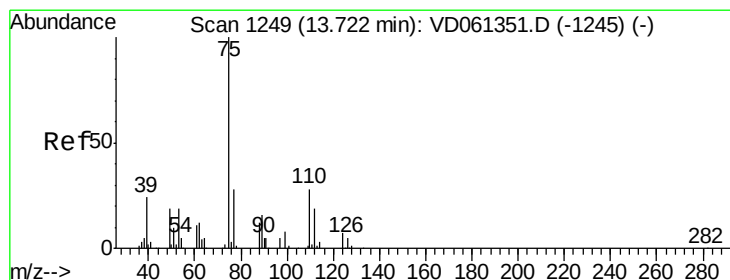
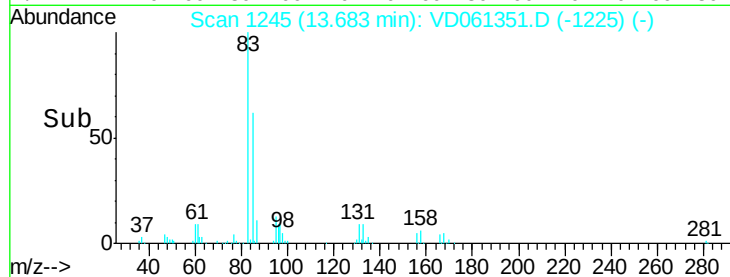
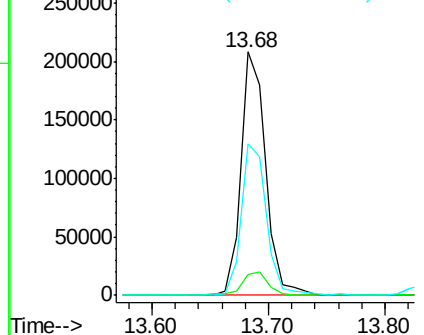
Manual Integrations
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Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 43.803 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.00 min

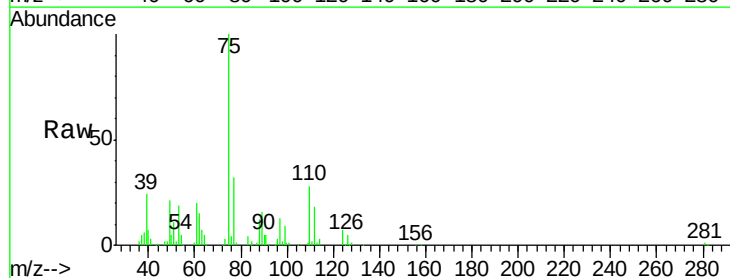
Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

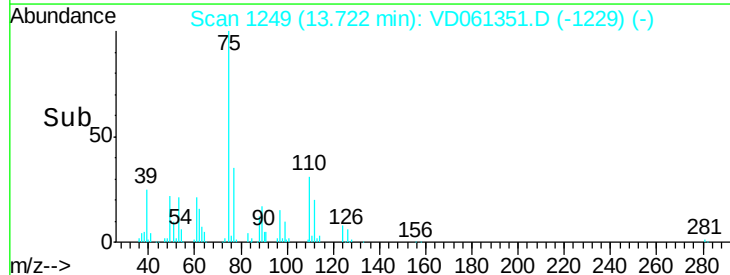
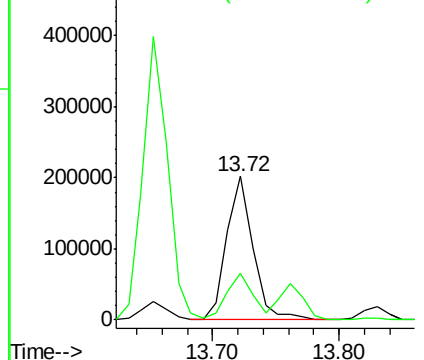
Tgt Ion: 75 Resp: 291861
Ion Ratio Lower Upper

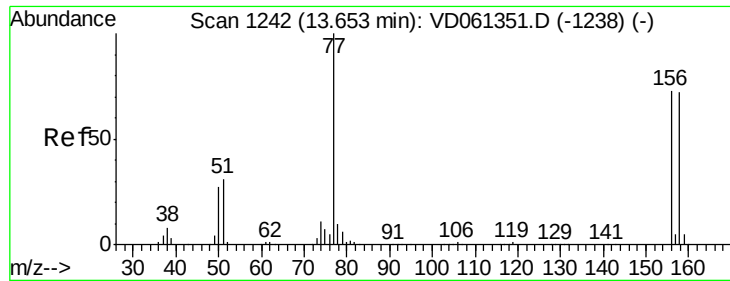
75 100

77 32.3 16.2 48.5



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 45.821 ug/l

RT: 13.65 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

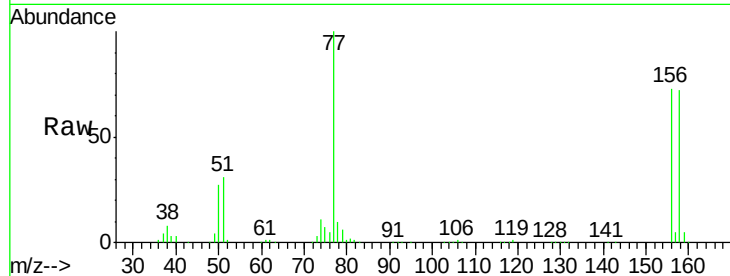
VSTDICCC050

Tgt Ion: 156 Resp: 436089

Ion	Ratio	Lower	Upper
156	100		
77	137.1	68.5	205.6
158	98.2	49.1	147.3

Manual Integrations
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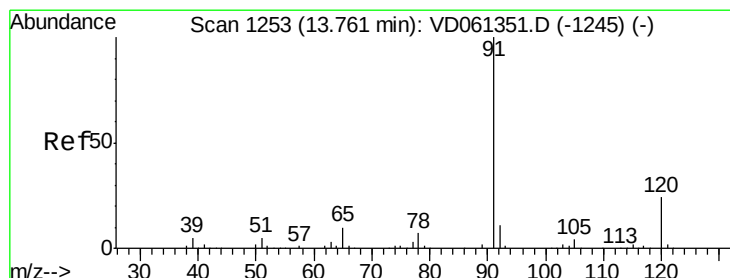
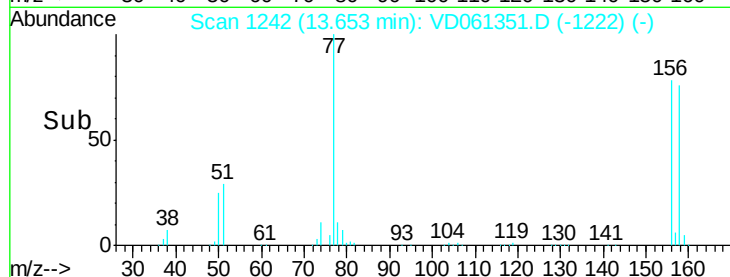
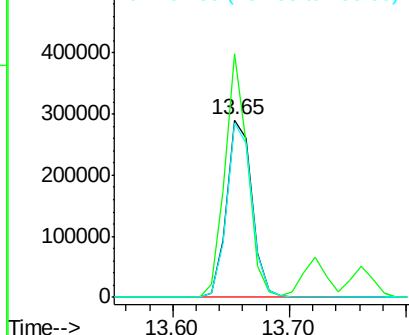
MMDadoda
4/1/2019 3:01:34 PM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 48.679 ug/l

RT: 13.76 min Scan# 1253

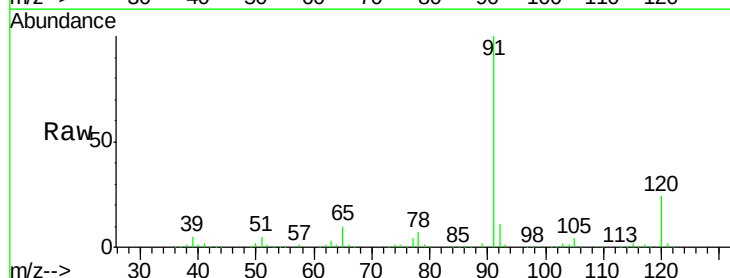
Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

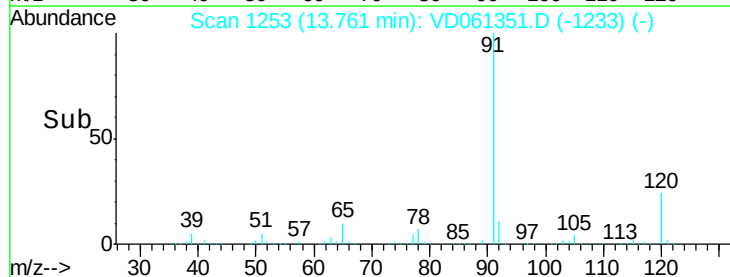
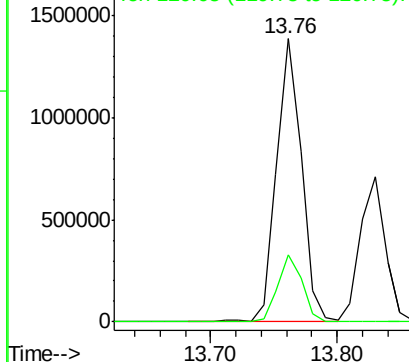
Tgt Ion: 91 Resp: 1912434

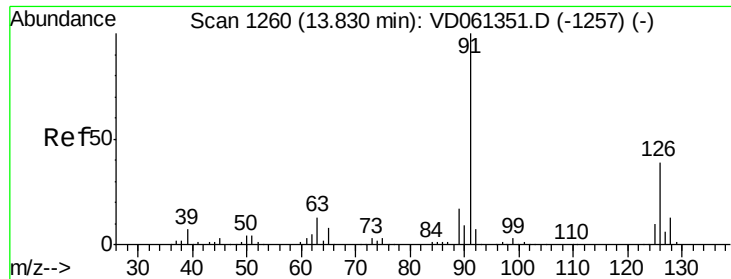
Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.8	35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 45.651 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 973814

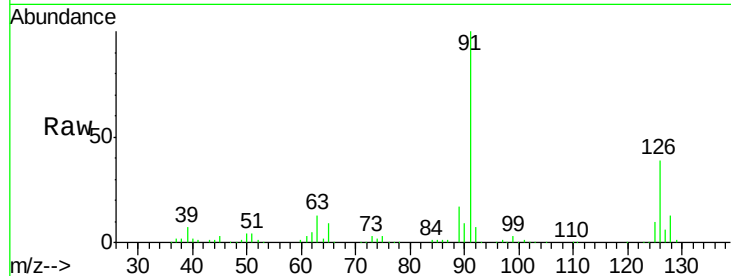
Ion Ratio Lower Upper

91 100

126 38.8 19.4 58.2

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Abundance Ion 91.00 (90.70 to 91.70): VD061351.D (-1257) (-)

Ion 125.95 (125.65 to 126.65): VD061351.D (-1257) (-)

1500000

1000000

500000

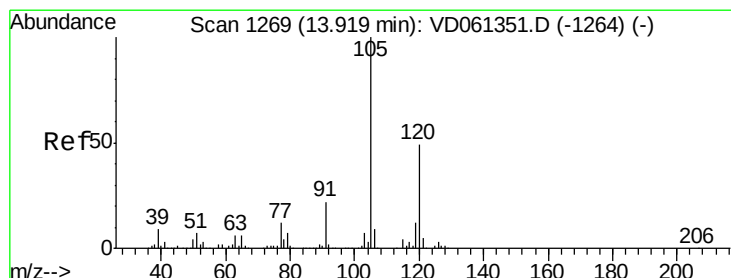
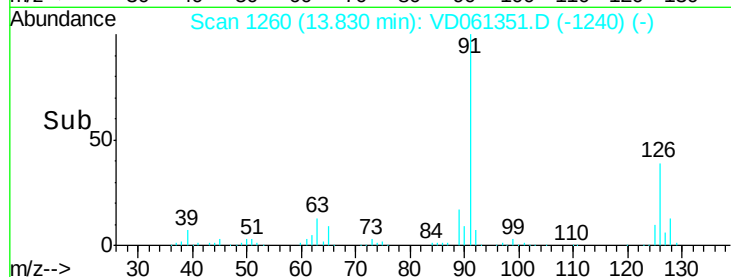
0

13.83

13.85

13.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 43.151 ug/l

RT: 13.92 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VD061351.D

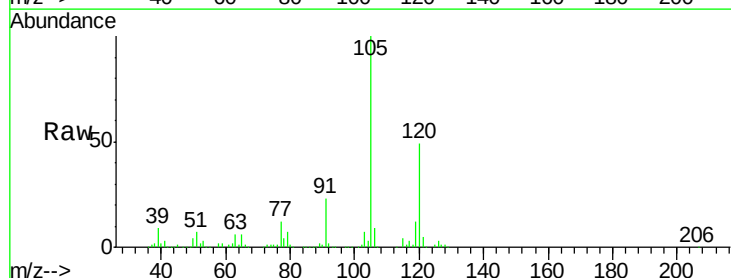
Acq: 27 Mar 2019 13:06

Tgt Ion: 105 Resp: 1144769

Ion Ratio Lower Upper

105 100

120 49.1 24.6 73.6



Abundance Ion 105.05 (104.75 to 105.75): VD061351.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD061351.D (-1264) (-)

1000000

800000

600000

400000

200000

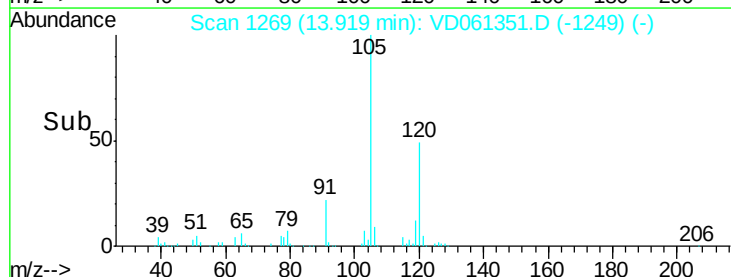
0

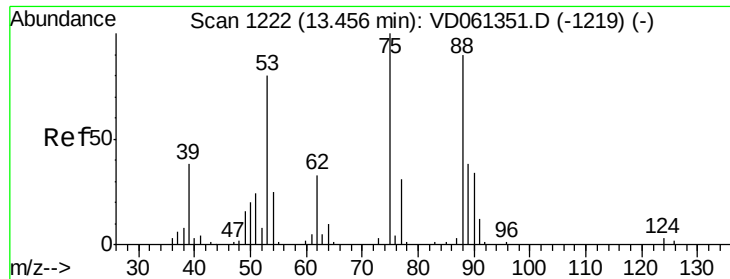
13.92

13.90

14.00

Time-->





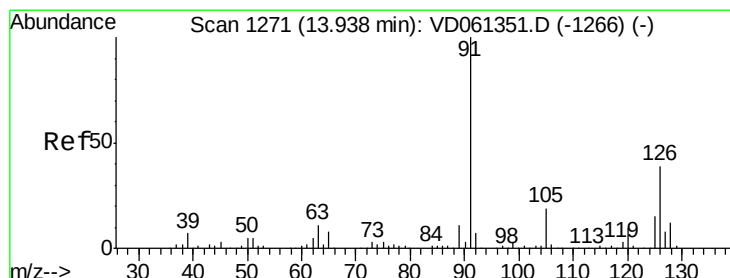
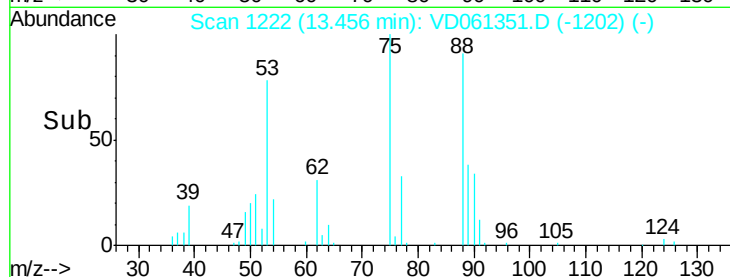
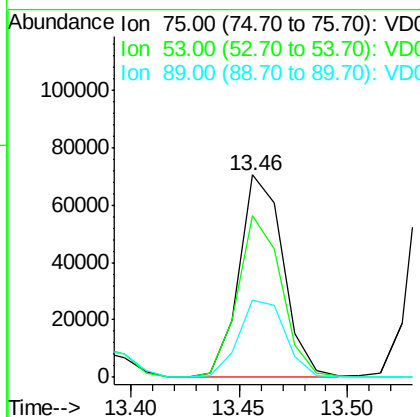
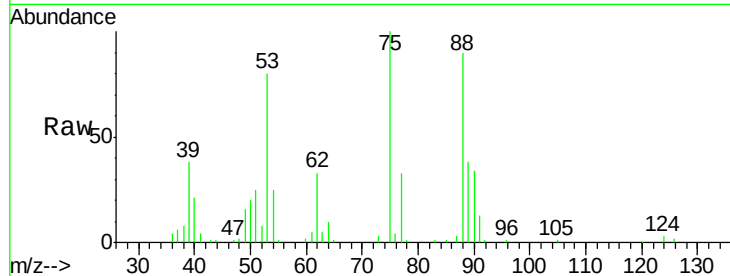
#81
trans-1,4-Dichloro-2-butene
Concen: 49.579 ug/l
RT: 13.46 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	79.8	63.8	95.8
89	38.1	30.5	45.7

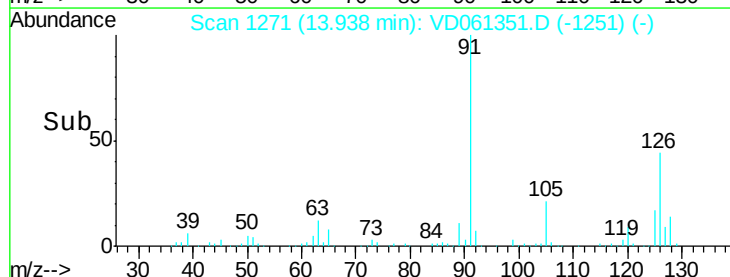
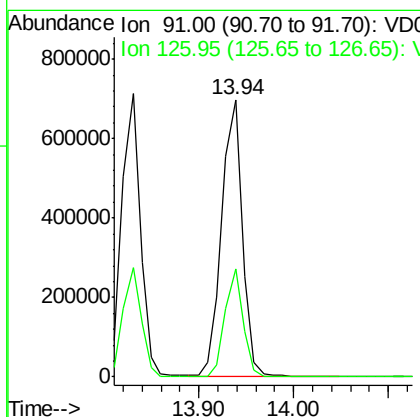
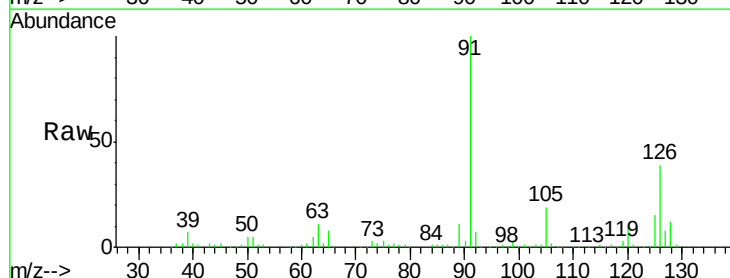
Manual Integrations
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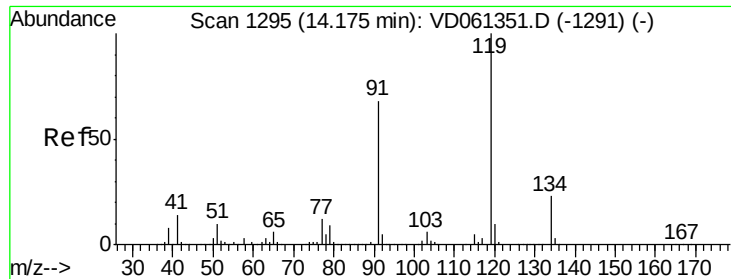
MMDadoda
4/1/2019 3:01:34 PM



#82
4-Chlorotoluene
Concen: 45.394 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
91	100		
126	39.2	19.6	58.8





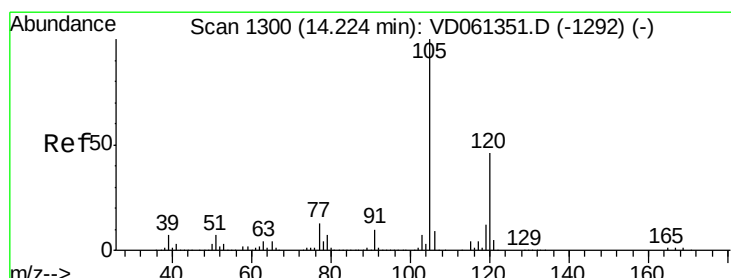
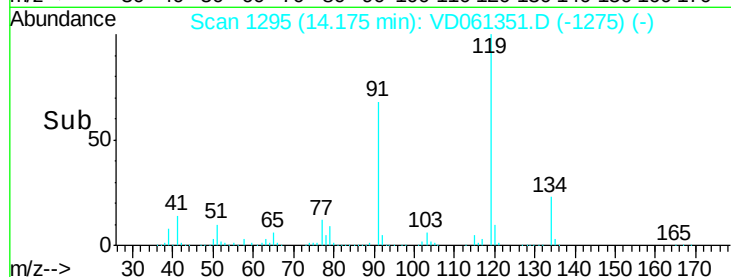
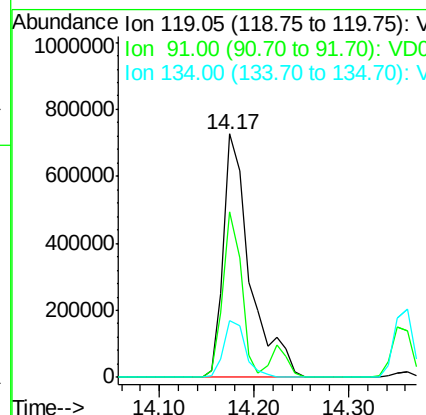
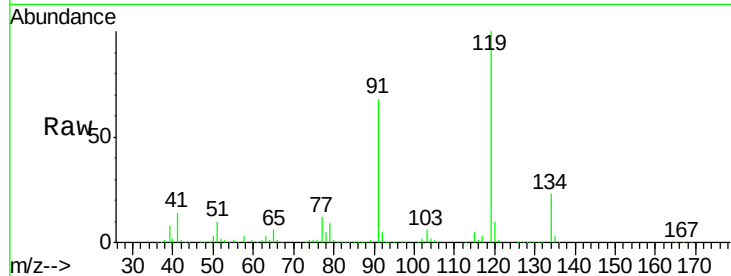
#83
 tert-Butylbenzene
 Concen: 45.940 ug/l
 RT: 14.17 min Scan# 1295
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion:119 Resp: 1430038
 Ion Ratio Lower Upper
 119 100
 91 68.2 34.1 102.3
 134 23.2 11.6 34.8

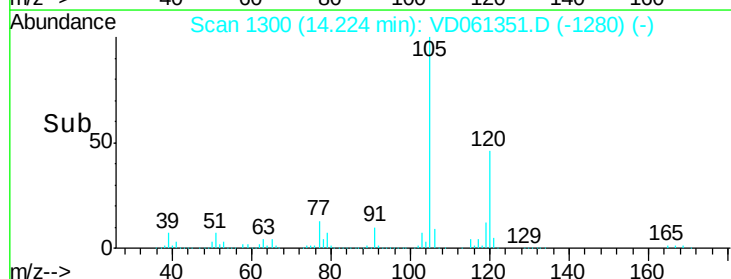
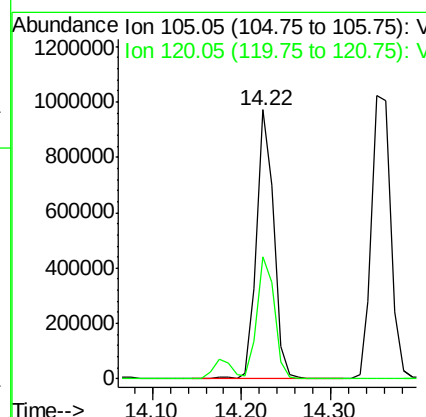
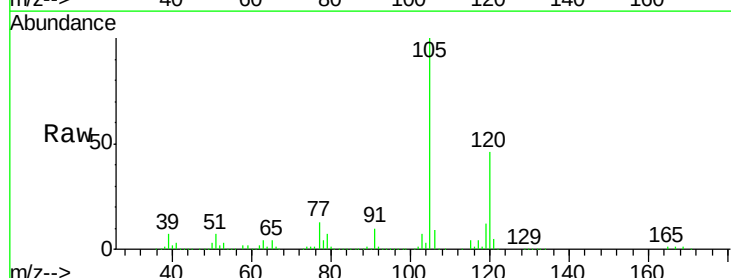
Manual Integrations
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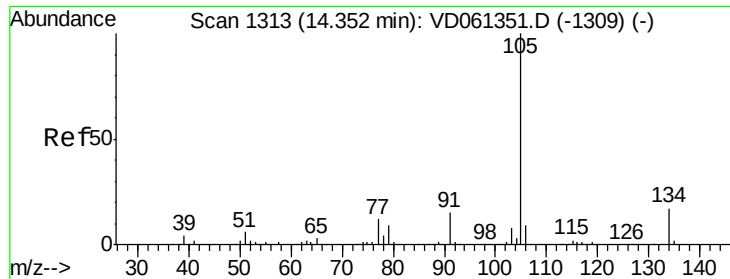
MMDadoda
 4/1/2019 3:01:34 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 47.471 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion:105 Resp: 1280112
 Ion Ratio Lower Upper
 105 100
 120 45.6 22.8 68.4





#85

sec-Butylbenzene

Concen: 46.446 ug/l

RT: 14.35 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 1535915

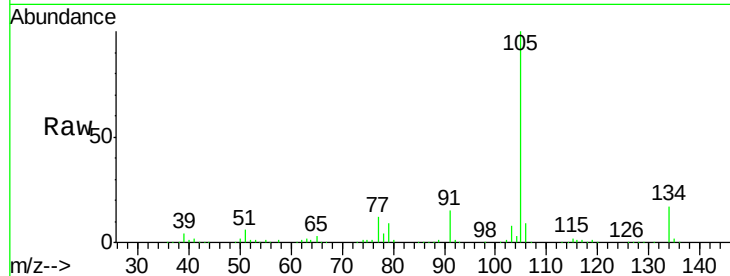
Ion Ratio Lower Upper

105 100

134 17.4 8.7 26.1

Manual Integrations
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

1200000

1000000

800000

600000

400000

200000

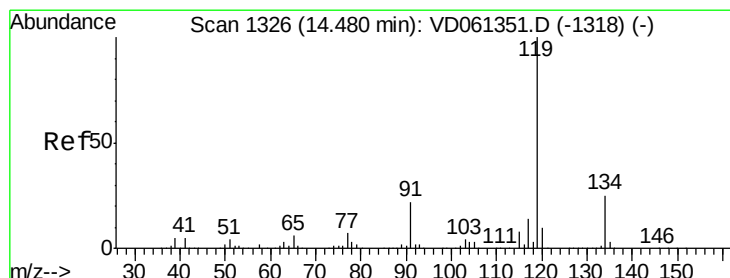
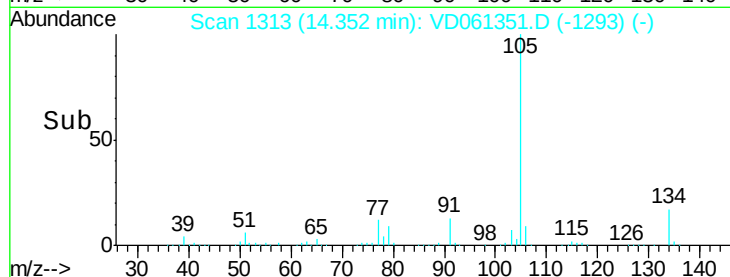
0

14.30

14.35

14.40

Time-->



#86

p-Isopropyltoluene

Concen: 48.211 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

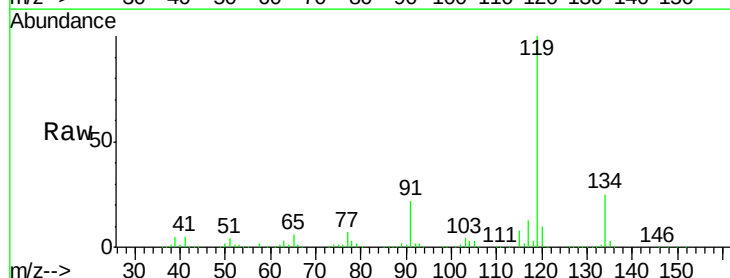
Tgt Ion:119 Resp: 1348131

Ion Ratio Lower Upper

119 100

134 24.5 12.3 36.8

91 22.1 11.1 33.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

1500000

1000000

500000

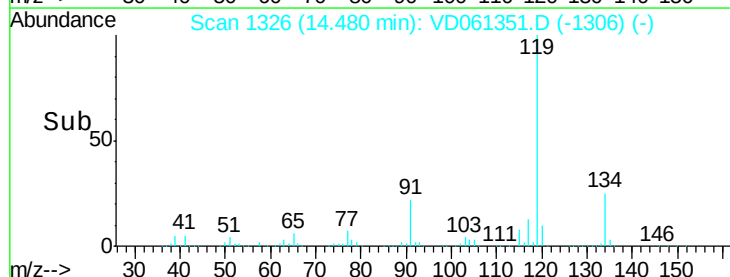
0

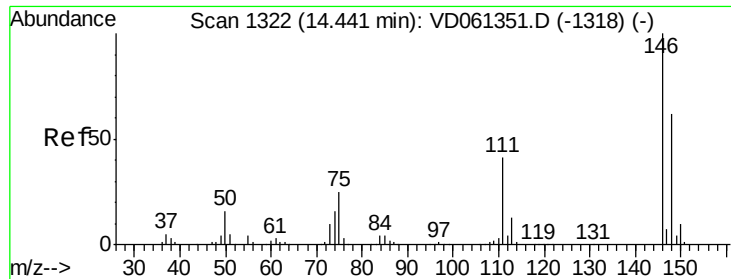
14.40

14.48

14.60

Time-->





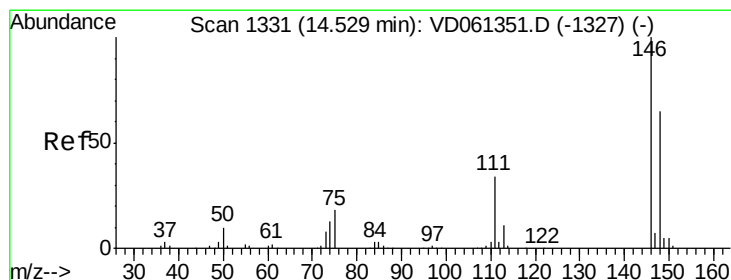
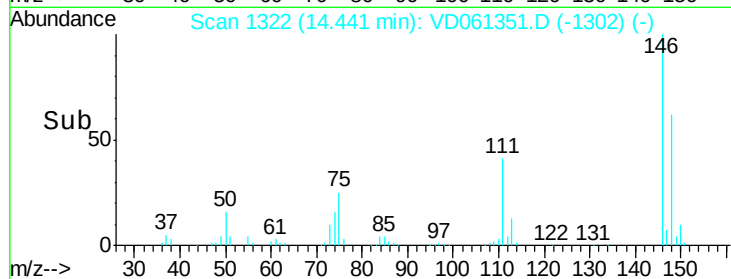
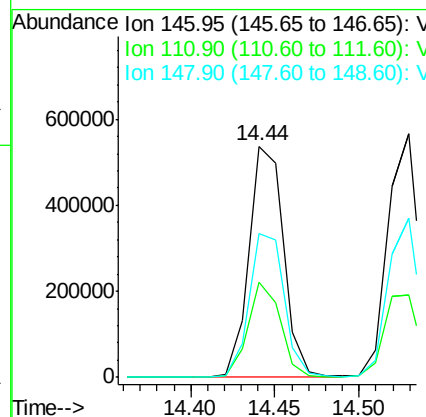
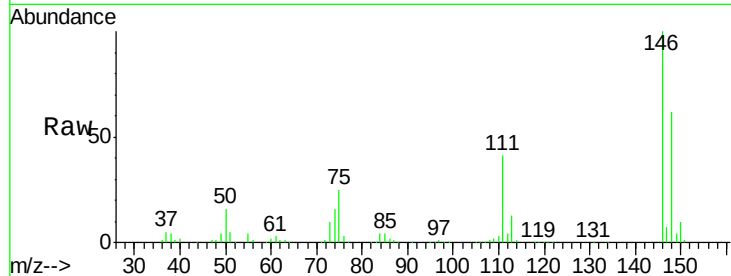
#87
 1,3-Dichlorobenzene
 Concen: 47.521 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	765863		
111	41.3	20.6	61.9	
148	62.2	31.1	93.3	

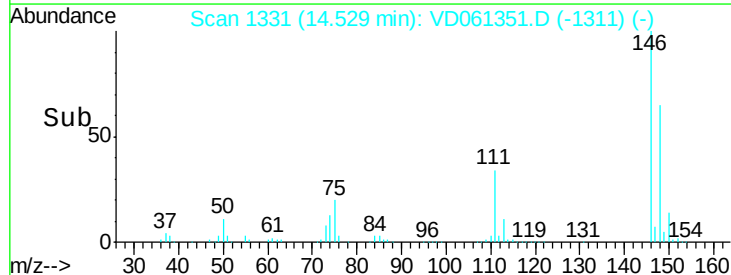
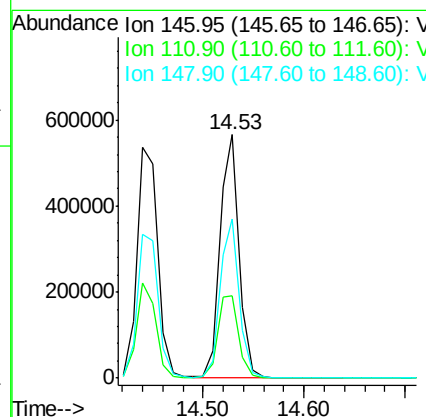
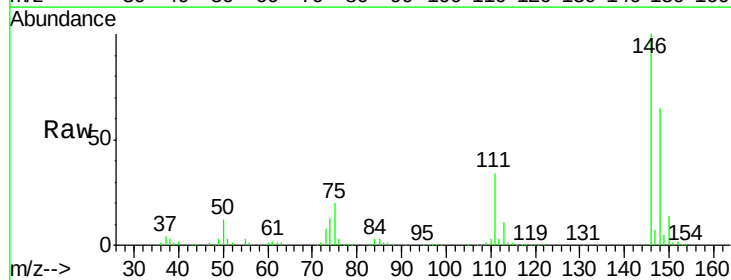
Manual Integrations
 APPROVED

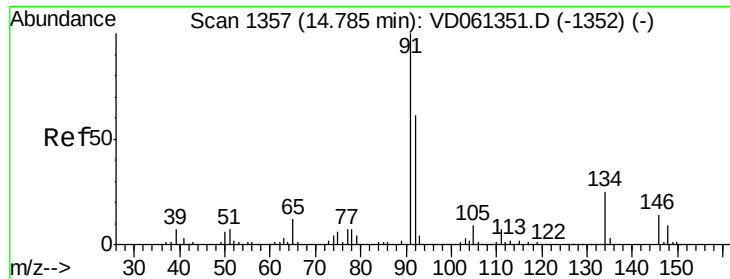
MMDadoda
 4/1/2019 3:01:34 PM



#88
 1,4-Dichlorobenzene
 Concen: 47.608 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	748246		
111	33.6	16.8	50.4	
148	65.3	32.6	98.0	





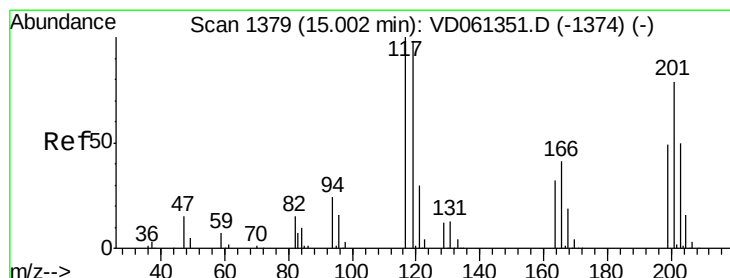
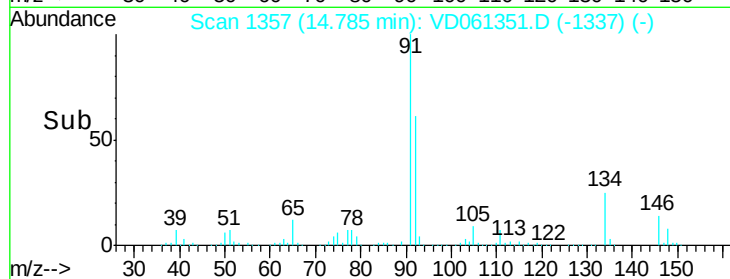
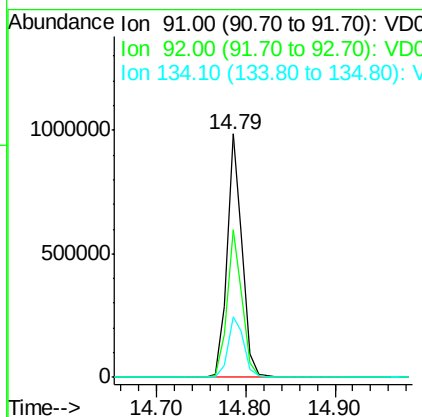
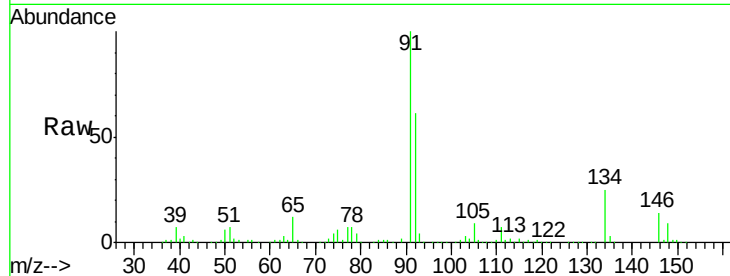
#89
n-Butylbenzene
Concen: 46.080 ug/l
RT: 14.79 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1182668
Ion Ratio Lower Upper
91 100
92 60.7 30.3 91.0
134 24.7 12.4 37.0

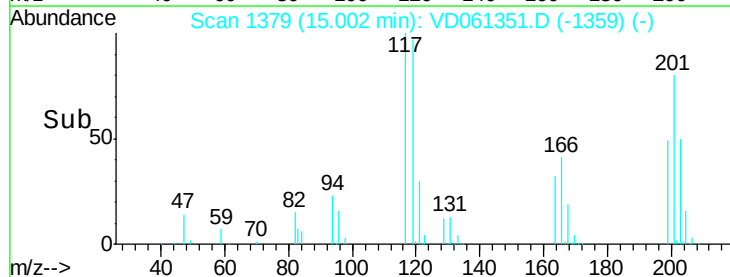
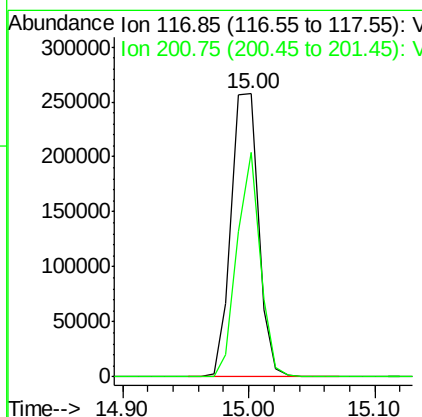
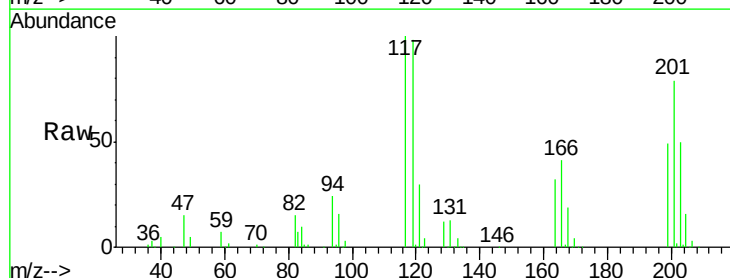
Manual Integrations
APPROVED

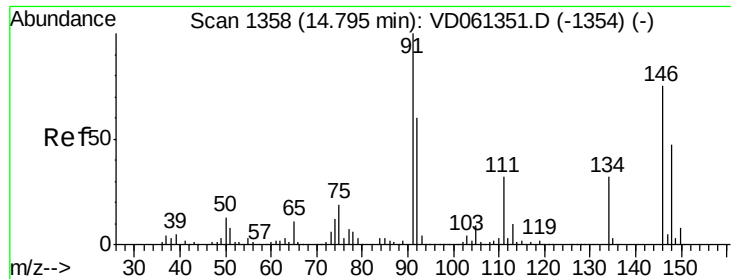
MMDadoda
4/1/2019 3:01:34 PM



#90
Hexachloroethane
Concen: 49.114 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. 0.00 min
Lab File: VD061351.D
Acq: 27 Mar 2019 13:06

Tgt Ion: 117 Resp: 387998
Ion Ratio Lower Upper
117 100
201 79.3 39.6 119.0





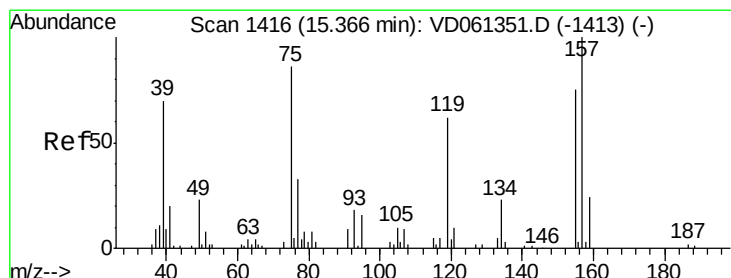
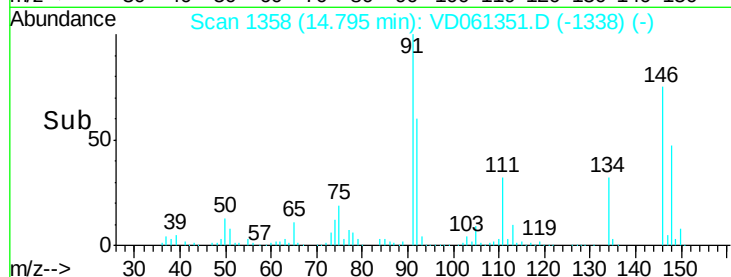
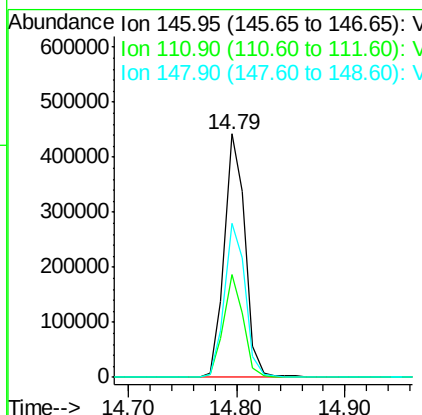
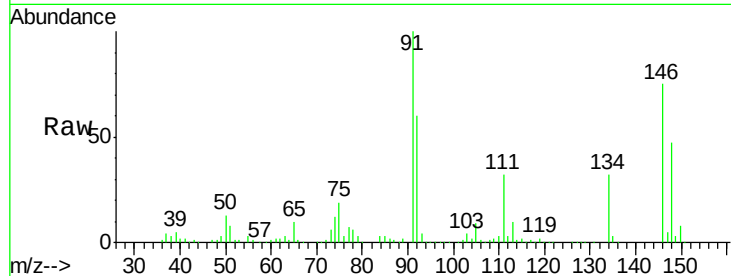
#91
 1,2-Dichlorobenzene
 Concen: 44.918 ug/l
 RT: 14.79 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 146 Resp: 593787
 Ion Ratio Lower Upper
 146 100
 111 42.4 21.2 63.6
 148 63.3 31.6 95.0

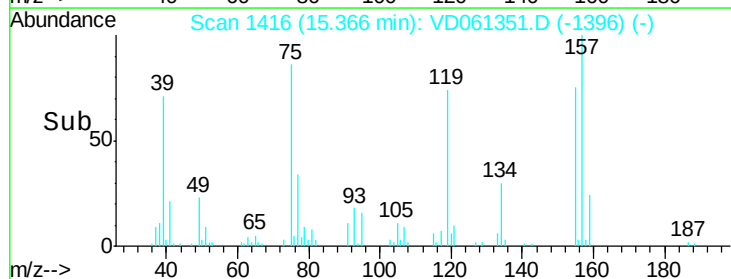
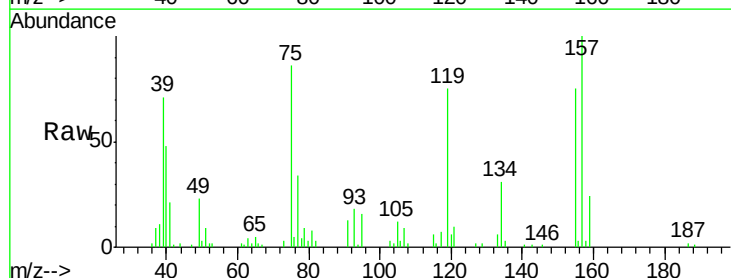
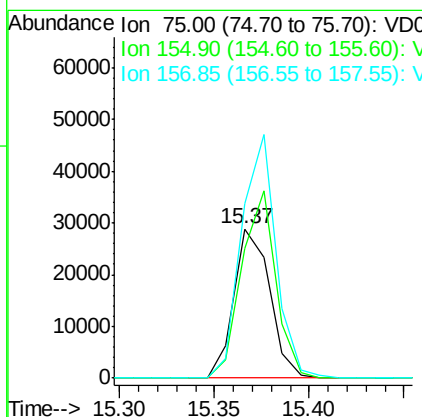
Manual Integrations
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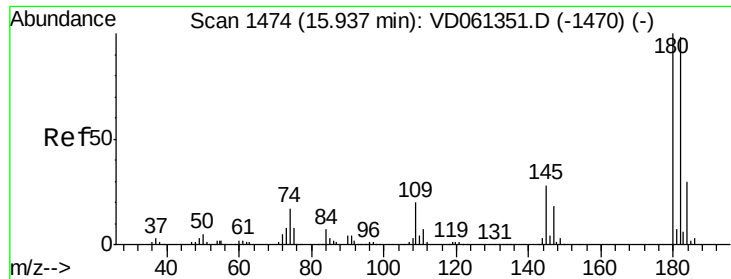
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.490 ug/l
 RT: 15.37 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion: 75 Resp: 37720
 Ion Ratio Lower Upper
 75 100
 155 87.3 43.6 130.9
 157 116.9 58.5 175.3





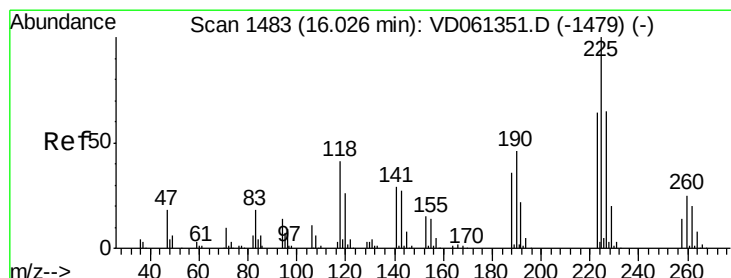
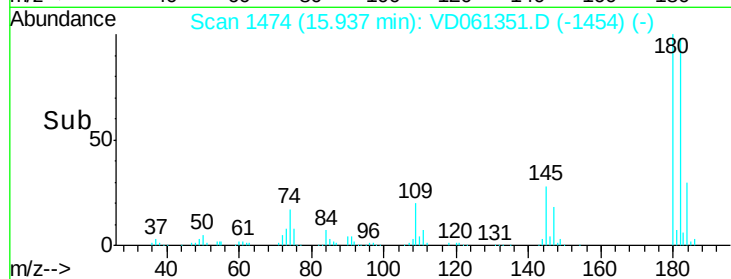
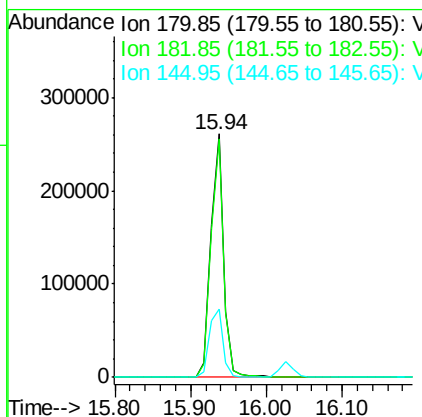
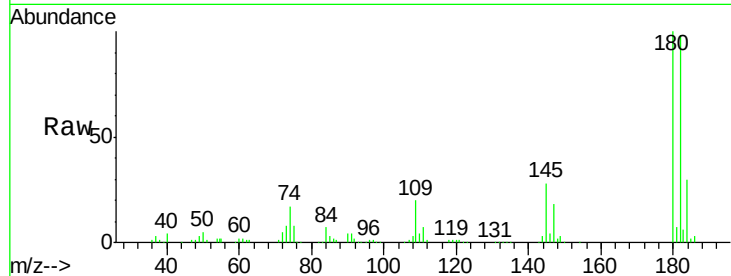
#93
 1,2,4-Trichlorobenzene
 Concen: 52.153 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	48.9	146.8
145	28.2	14.1	42.3

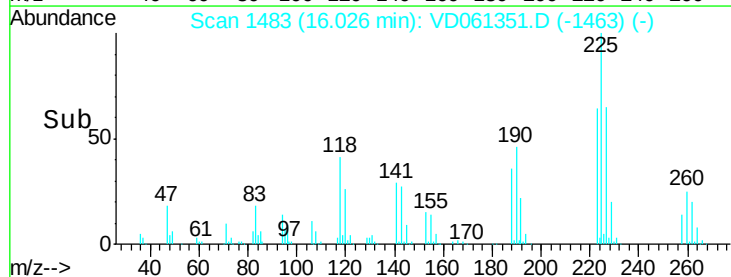
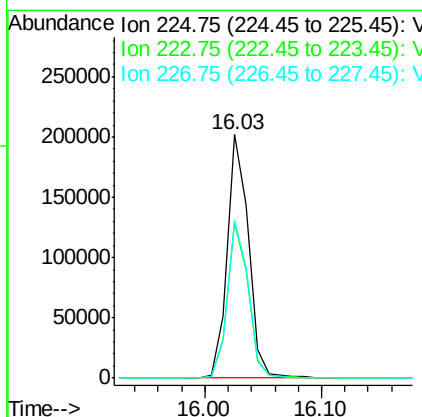
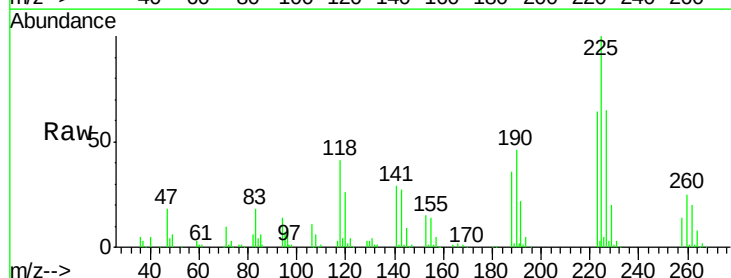
Manual Integrations
 APPROVED

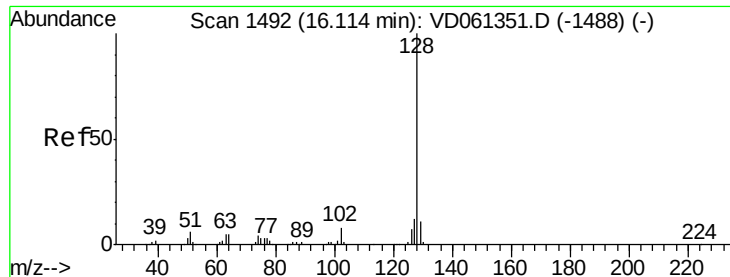
MMDadoda
 4/1/2019 3:01:34 PM



#94
 Hexachlorobutadiene
 Concen: 54.274 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: VD061351.D
 Acq: 27 Mar 2019 13:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	32.0	96.0
227	64.8	32.4	97.2





#95

Naphthalene

Concen: 55.561 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Instrument :

MSVOA_D

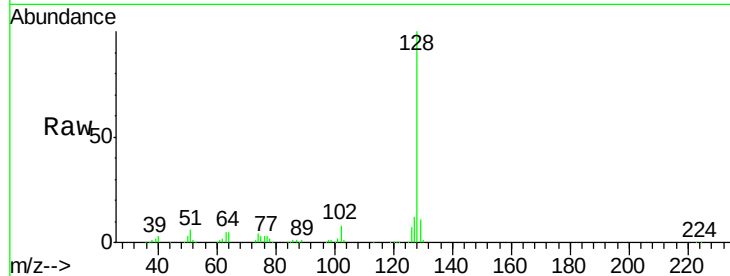
ClientSampleId :

VSTDICCC050

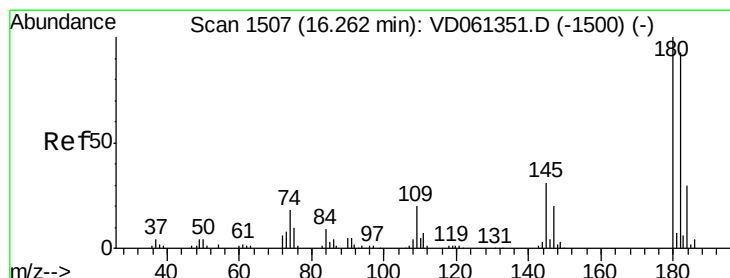
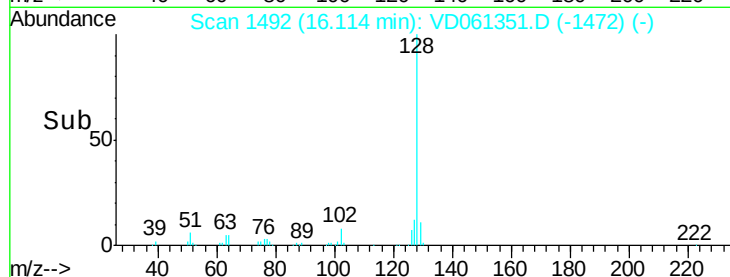
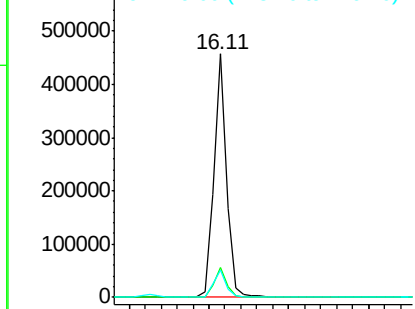
Tgt Ion:	128	Resp:	509999
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.9	14.9
129	11.1	8.9	13.3

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 56.079 ug/l

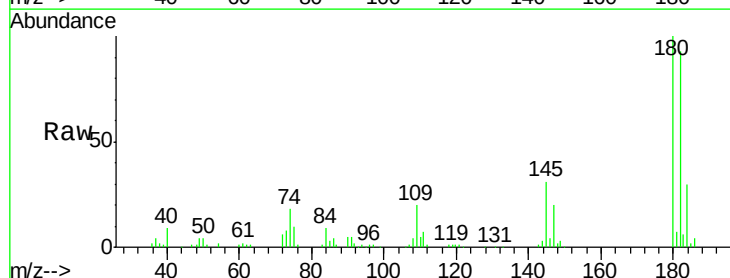
RT: 16.26 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VD061351.D

Acq: 27 Mar 2019 13:06

Tgt Ion:	180	Resp:	148604
Ion Ratio	Lower	Upper	
180	100		
182	92.7	46.4	139.1
145	30.6	15.3	45.9



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

