

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD032719\
 Data File : VD061367.D
 Acq On : 27 Mar 2019 23:28
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/29/2019 2:00:52 PM

Quant Time: Mar 28 09:34:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	600638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	1092801	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	902907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	415839	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.42	65	273102	53.23	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	106.46%	
35) Dibromofluoromethane	6.89	113	431018	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
50) Toluene-d8	10.38	98	1035442	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
62) 4-Bromofluorobenzene	13.54	95	401405	52.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.52%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	360729	56.236	ug/l	99
3) Chloromethane	1.75	50	258223	49.360	ug/l	99
4) Vinyl Chloride	1.84	62	255150	53.119	ug/l	95
5) Bromomethane	2.15	94	65465	68.730	ug/l	98
6) Chloroethane	2.27	64	93935	66.687	ug/l	97
7) Trichlorofluoromethane	2.52	101	401824	57.529	ug/l	99
8) Diethyl Ether	2.86	74	138280	61.489	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.14	101	428569	57.073	ug/l	99
10) Methyl Iodide	3.29	142	621364	54.123	ug/l	99
11) Tert butyl alcohol	4.04	59	88785	277.856	ug/l	98
12) 1,1-Dichloroethene	3.11	96	358217	55.563	ug/l	97
13) Acrolein	3.02	56	58312	238.457	ug/l	99
14) Allyl chloride	3.61	41	523373	58.203	ug/l	99
15) Acrylonitrile	4.17	53	335304	302.336	ug/l	96
16) Acetone	3.20	43	348138	263.945	ug/l	99
17) Carbon Disulfide	3.36	76	1091860	52.125	ug/l	99
18) Methyl Acetate	3.62	43	156306	56.363	ug/l	100
19) Methyl tert-butyl Ether	4.22	73	674206	60.414	ug/l	99
20) Methylene Chloride	3.79	84	411312	55.893	ug/l	96
21) trans-1,2-Dichloroethene	4.20	96	401763	57.721	ug/l	100
22) Diisopropyl ether	5.08	45	1132653	59.523	ug/l	98
23) Vinyl Acetate	5.02	43	3044075	294.504	ug/l	97
24) 1,1-Dichloroethane	4.95	63	663098	59.295	ug/l	99
25) 2-Butanone	6.04	43	470865	283.797	ug/l	100
26) 2,2-Dichloropropane	5.99	77	488227	54.920	ug/l	99
27) cis-1,2-Dichloroethene	6.01	96	450210	59.035	ug/l	96
28) Bromochloromethane	6.41	49	241317	53.457	ug/l #	94
29) Tetrahydrofuran	6.42	42	232415	289.006	ug/l	98
30) Chloroform	6.64	83	684739	59.259	ug/l	100
31) Cyclohexane	6.93	56	461596	52.233	ug/l	98
32) 1,1,1-Trichloroethane	6.84	97	589020	57.780	ug/l	94
36) 1,1-Dichloropropene	7.12	75	483506	50.694	ug/l	98
37) Ethyl Acetate	6.15	43	220753	54.119	ug/l	99
38) Carbon Tetrachloride	7.08	117	574003m	52.374	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.83	83	508354	51.176	ug/l	99
40) Benzene	7.43	78	1224802	51.168	ug/l	98
41) Methacrylonitrile	6.41	41	260276	54.572	ug/l #	98
42) 1,2-Dichloroethane	7.54	62	393990	55.025	ug/l	99
43) Isopropyl Acetate	9.21	43	345417	58.201	ug/l #	95
44) Trichloroethene	8.51	130	463902	52.077	ug/l	94
45) 1,2-Dichloropropane	8.90	63	317359	52.286	ug/l	99
46) Dibromomethane	9.03	93	236073	57.785	ug/l	95
47) Bromodichloromethane	9.35	83	534311	58.271	ug/l	99
48) Methyl methacrylate	9.09	41	171815	52.456	ug/l	97
49) 1,4-Dioxane	9.05	88	41101	1137.664	ug/l	98
51) 4-Methyl-2-Pentanone	10.27	43	961565	266.305	ug/l	97
52) Toluene	10.48	92	776938	53.203	ug/l	97
53) t-1,3-Dichloropropene	10.88	75	476579	57.206	ug/l	99
54) cis-1,3-Dichloropropene	10.01	75	583282	57.499	ug/l	95
55) 1,1,2-Trichloroethane	11.17	97	259725	50.856	ug/l	97
56) Ethyl methacrylate	11.02	69	271051	49.404	ug/l	97
57) 1,3-Dichloropropane	11.38	76	424588	56.563	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.83	63	672859	251.832	ug/l	99
59) 2-Hexanone	11.51	43	694161	265.341	ug/l	97
60) Dibromochloromethane	11.66	129	442246	56.171	ug/l	99
61) 1,2-Dibromoethane	11.78	107	321417	54.351	ug/l	97
64) Tetrachloroethene	11.23	164	354791	50.068	ug/l	97
65) Chlorobenzene	12.38	112	960920	52.076	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.50	131	395299	55.329	ug/l	99
67) Ethyl Benzene	12.51	91	1539647	54.665	ug/l	99
68) m/p-Xylenes	12.65	106	1029962	96.537	ug/l	99
69) o-Xylene	13.03	106	525399	50.746	ug/l	98
70) Styrene	13.06	104	902727	50.018	ug/l	99
71) Bromoform	13.21	173	245791	54.270	ug/l	96
73) Isopropylbenzene	13.38	105	1305772	45.117	ug/l	99
74) N-amyl acetate	13.24	43	387271	48.034	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.69	83	310336	50.830	ug/l	94
76) 1,2,3-Trichloropropane	13.72	75	297840	49.583	ug/l	98
77) Bromobenzene	13.65	156	420613	49.022	ug/l	99
78) n-propylbenzene	13.76	91	1651590	46.631	ug/l	97
79) 2-Chlorotoluene	13.82	91	888918	46.223	ug/l	100
80) 1,3,5-Trimethylbenzene	13.91	105	1080551	48.119	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.46	75	87399	47.720	ug/l	95
82) 4-Chlorotoluene	13.93	91	981784	46.951	ug/l	99
83) tert-Butylbenzene	14.17	119	1372381	48.903	ug/l	100
84) 1,2,4-Trimethylbenzene	14.22	105	1203537	49.506	ug/l	99
85) sec-Butylbenzene	14.36	105	1337480	44.862	ug/l	97
86) p-Isopropyltoluene	14.47	119	1266399	50.234	ug/l	100
87) 1,3-Dichlorobenzene	14.43	146	710915	48.929	ug/l	98
88) 1,4-Dichlorobenzene	14.52	146	730997	51.591	ug/l	99
89) n-Butylbenzene	14.78	91	1109056	47.931	ug/l	99
90) Hexachloroethane	15.00	117	377084	52.946	ug/l	91
91) 1,2-Dichlorobenzene	14.79	146	577271	48.438	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.37	75	41604	58.101	ug/l	52

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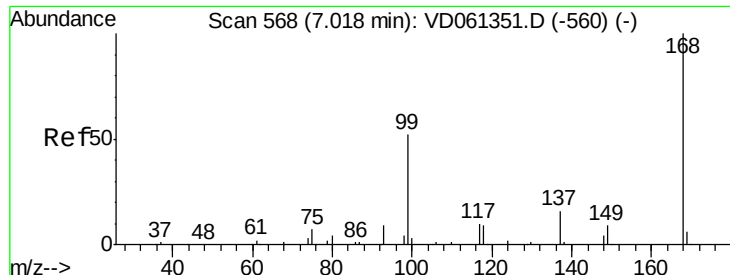
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.93	180	312610	57.582	ug/l	98
94) Hexachlorobutadiene	16.02	225	230382	54.306	ug/l	99
95) Naphthalene	16.11	128	543304	65.655	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	160577	67.216	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion:168 Resp: 600638

Ion Ratio Lower Upper

168 100

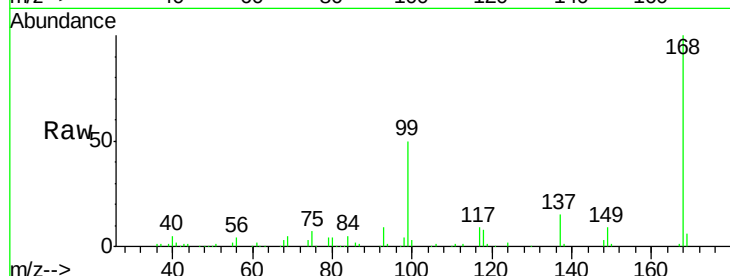
99 49.6 43.1 64.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

200000

150000

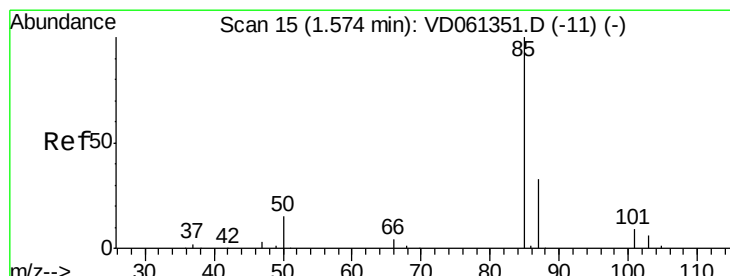
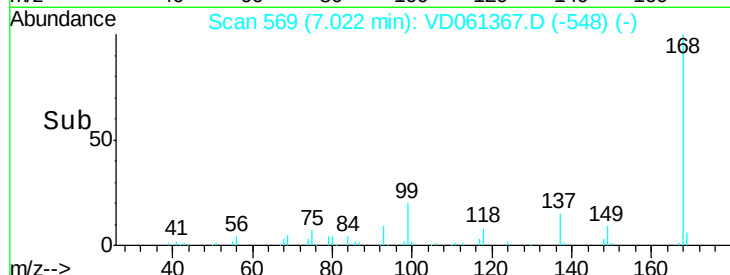
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 56.236 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.00 min

Lab File: VD061367.D

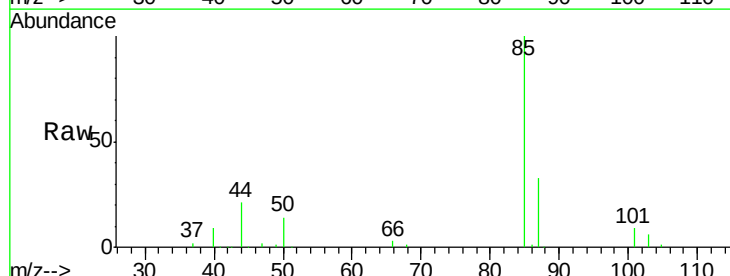
Acq: 27 Mar 2019 23:28

Tgt Ion: 85 Resp: 360729

Ion Ratio Lower Upper

85 100

87 32.5 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

150000

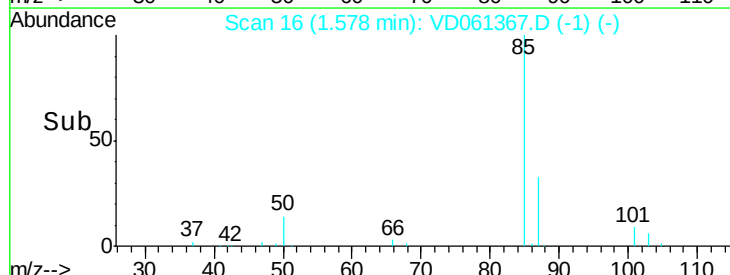
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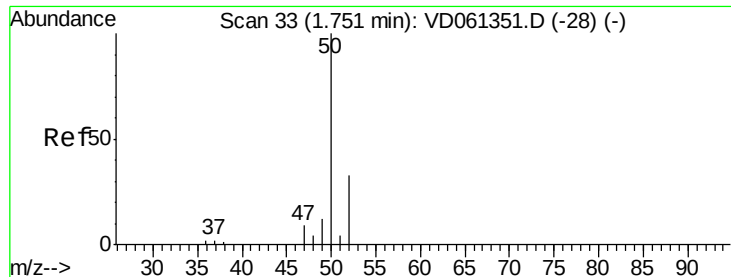
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 49.360 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 258223

Ion Ratio Lower Upper

50 100

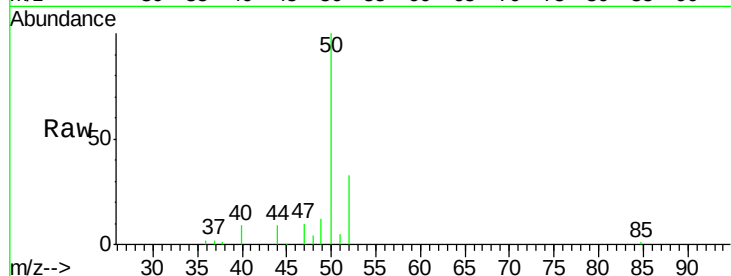
52 33.2 26.1 39.1

Manual Integrations

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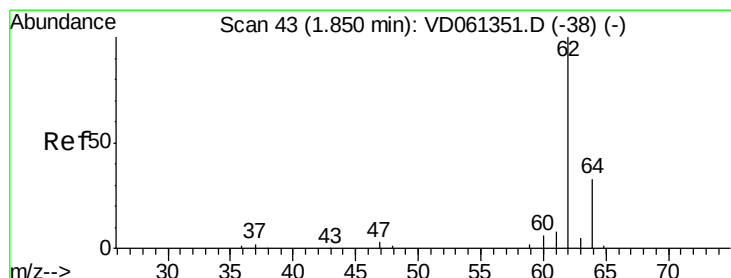
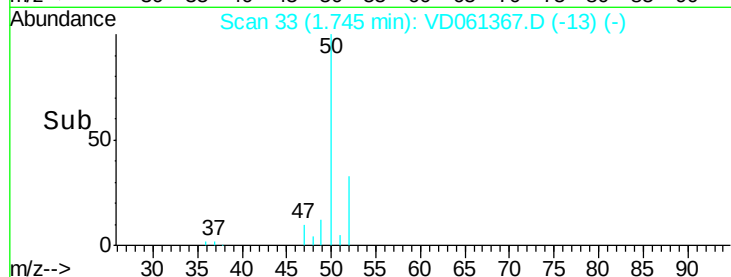
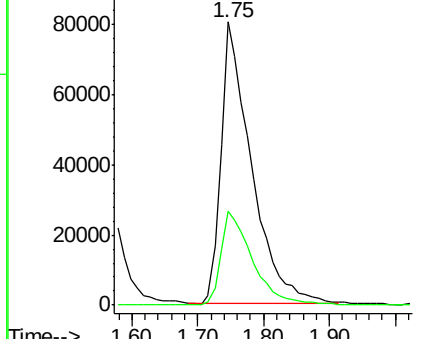
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 53.119 ug/l

RT: 1.84 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD061367.D

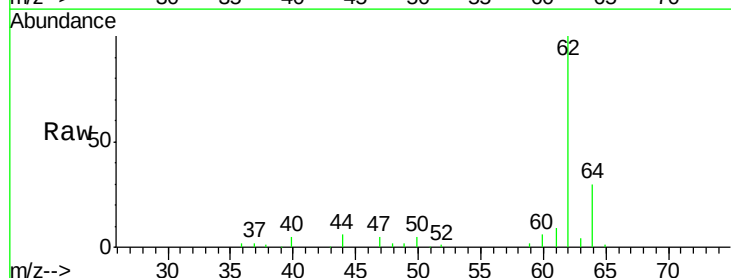
Acq: 27 Mar 2019 23:28

Tgt Ion: 62 Resp: 255150

Ion Ratio Lower Upper

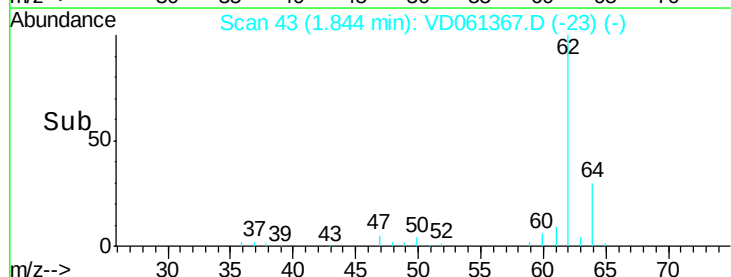
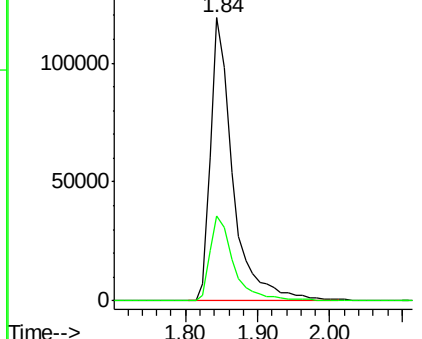
62 100

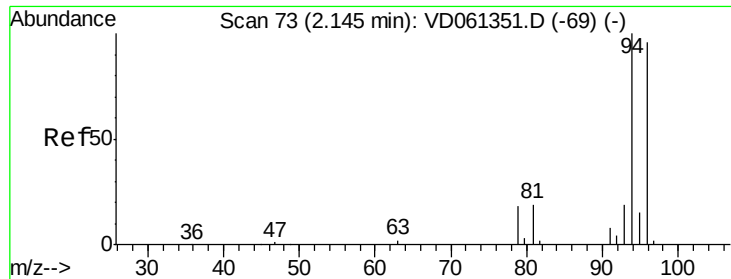
64 30.3 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 68.730 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

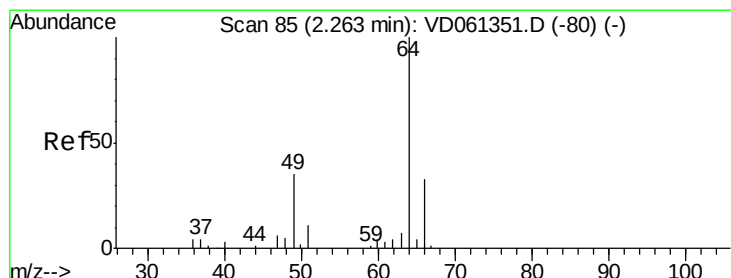
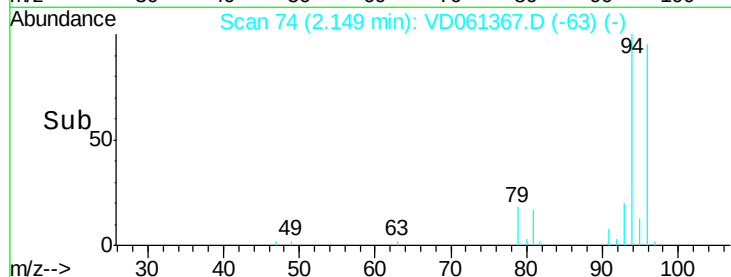
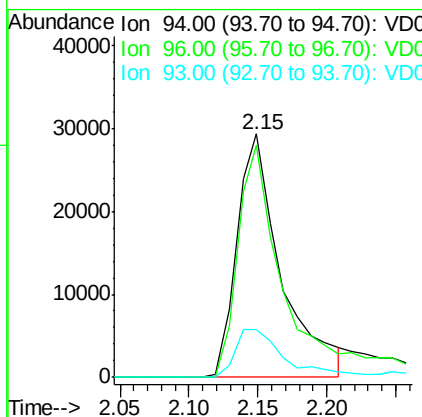
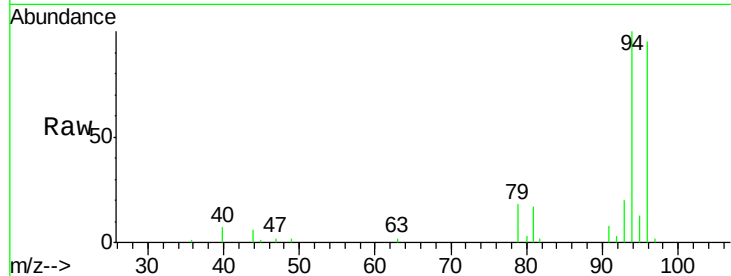
ClientSampleId :

VSTDCCC050

Tgt Ion:	94	Resp:	65465
Ion	Ratio	Lower	Upper
94	100		
96	95.2	78.3	117.5
93	19.6	15.6	23.4

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#6

Chloroethane

Concen: 66.687 ug/l

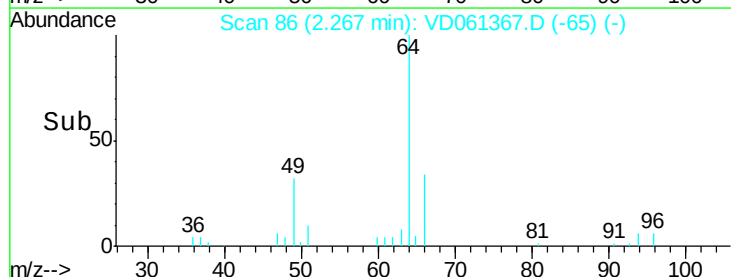
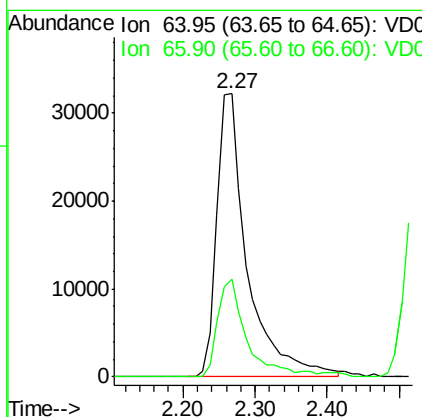
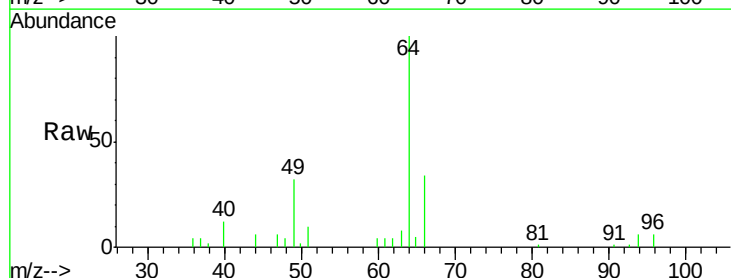
RT: 2.27 min Scan# 86

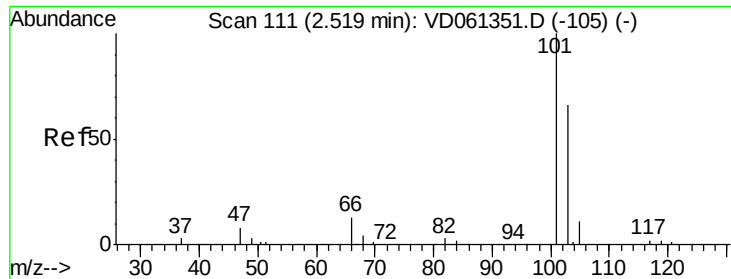
Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion:	64	Resp:	93935
Ion	Ratio	Lower	Upper
64	100		
66	34.5	26.2	39.2





#7

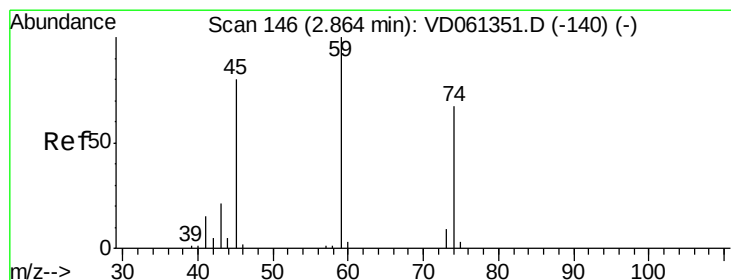
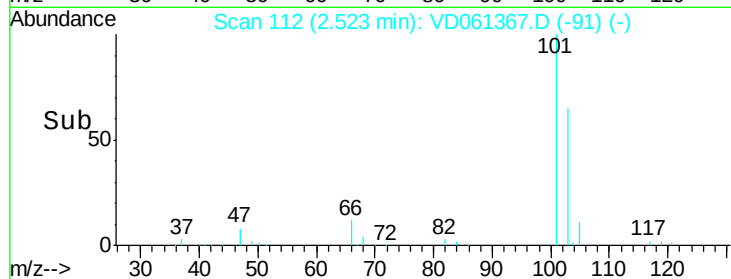
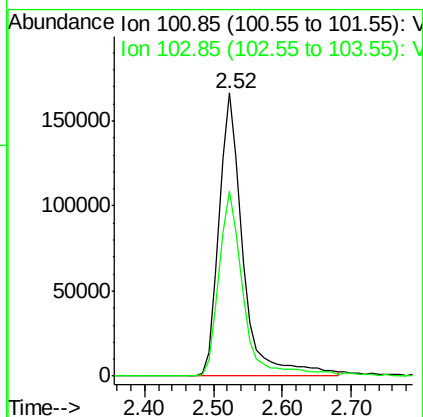
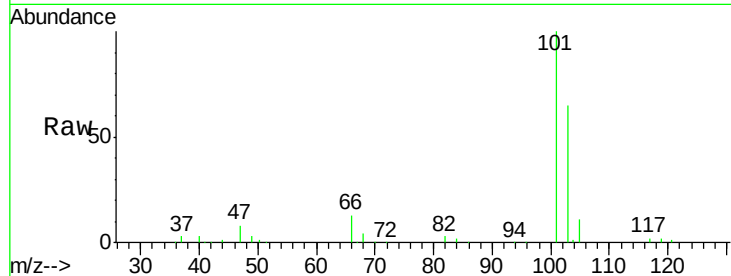
Trichlorofluoromethane
 Concen: 57.529 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. 0.00 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

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Tgt Ion: 101 Resp: 401824
 Ion Ratio Lower Upper
 101 100
 103 65.5 53.1 79.7

Manual Integrations
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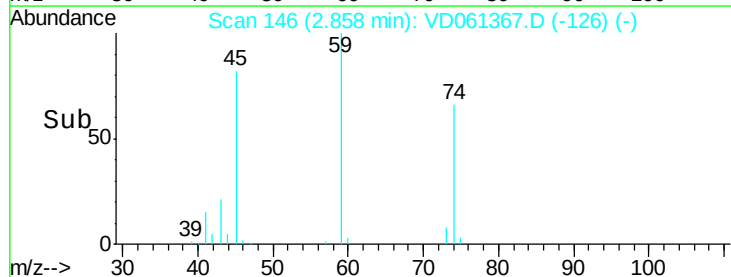
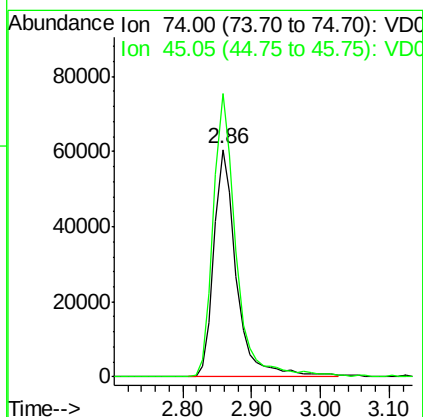
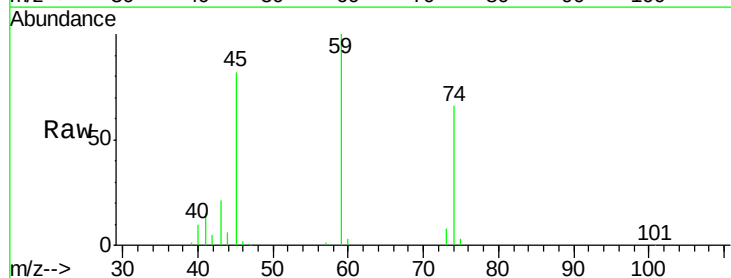
MMDadoda
 3/29/2019 2:00:52 PM

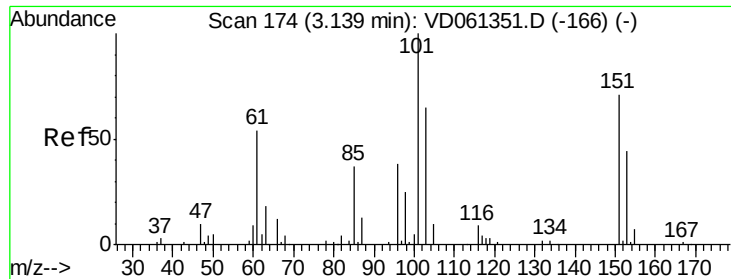


#8

Diethyl Ether
 Concen: 61.489 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion: 74 Resp: 138280
 Ion Ratio Lower Upper
 74 100
 45 124.4 59.7 179.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 57.073 ug/l

RT: 3.14 min Scan# 175

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

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MSVOA_D

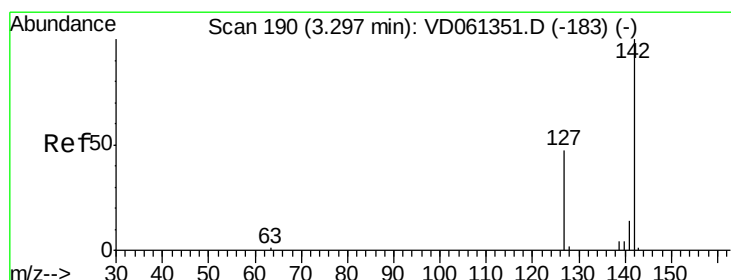
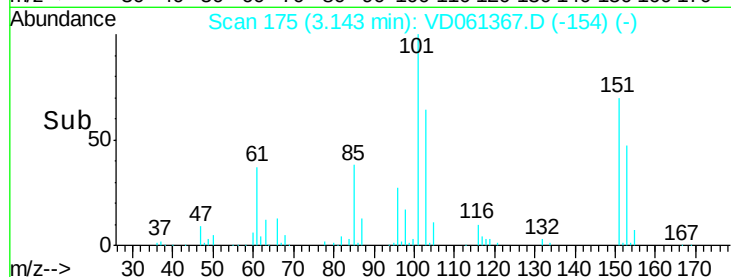
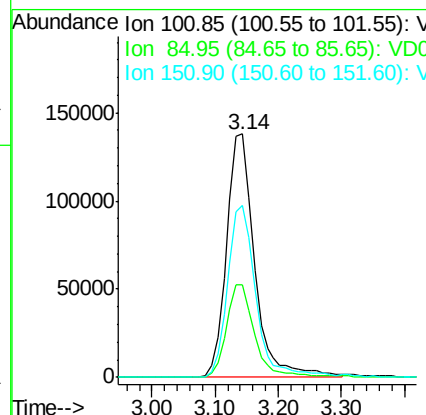
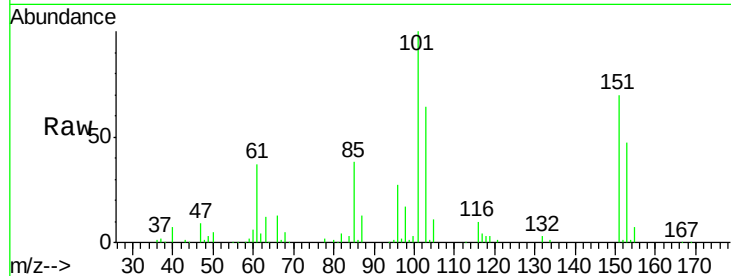
ClientSampleId :

VSTDCCC050

Tgt Ion:	101	Resp:	428569
Ion Ratio	Lower	Upper	
101	100		
85	38.1	29.4	44.0
151	70.4	57.0	85.4

Manual Integrations
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MMDadoda
3/29/2019 2:00:52 PM



#10

Methyl Iodide

Concen: 54.123 ug/l

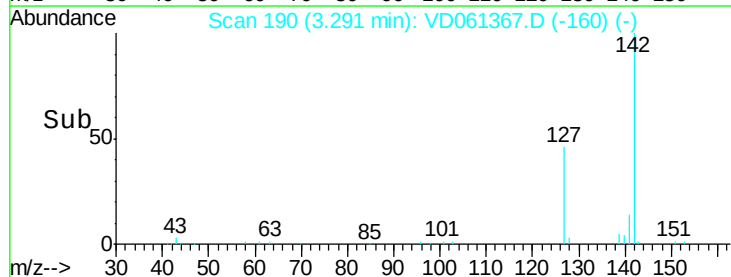
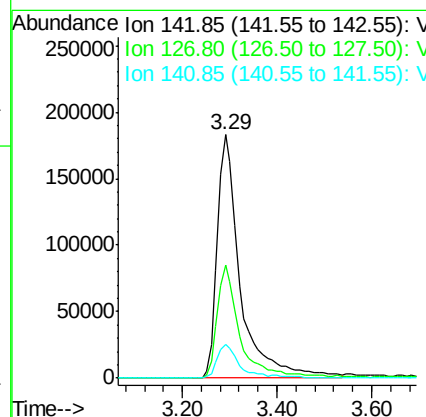
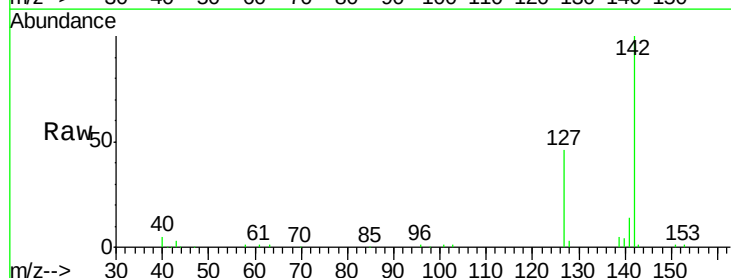
RT: 3.29 min Scan# 190

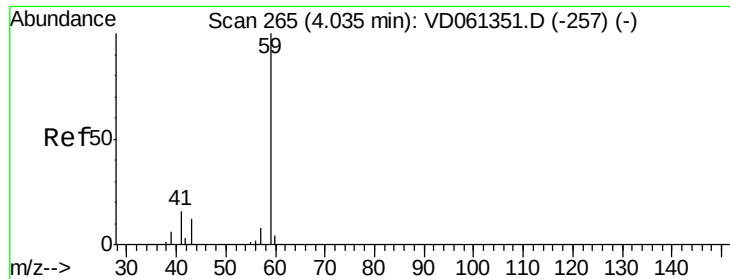
Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion:	142	Resp:	621364
Ion Ratio	Lower	Upper	
142	100		
127	46.4	37.7	56.5
141	13.9	11.5	17.3





#11

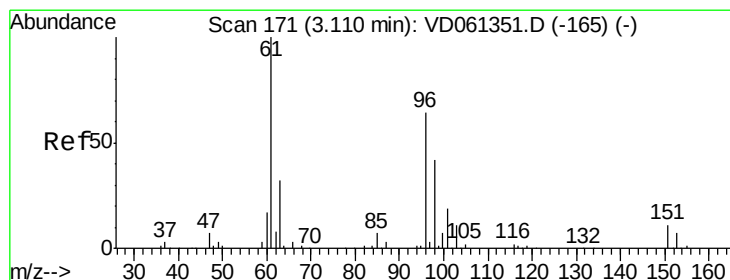
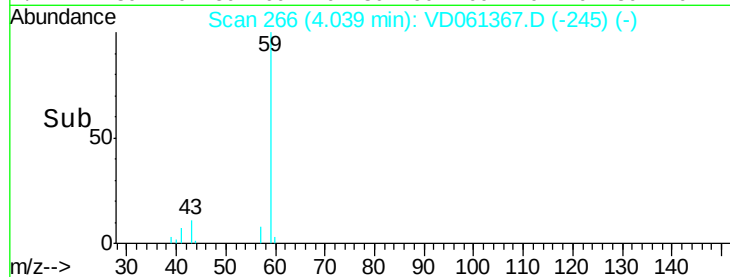
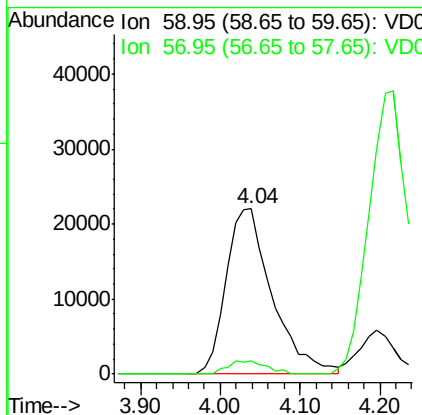
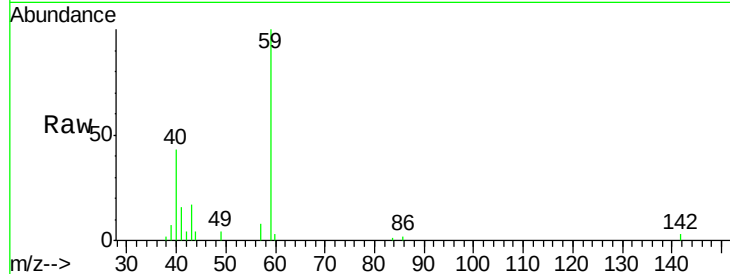
Tert butyl alcohol
Concen: 277.856 ug/l
RT: 4.04 min Scan# 266
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 88785
Ion Ratio Lower Upper
59 100
57 7.8 6.7 10.1

Manual Integrations
APPROVED

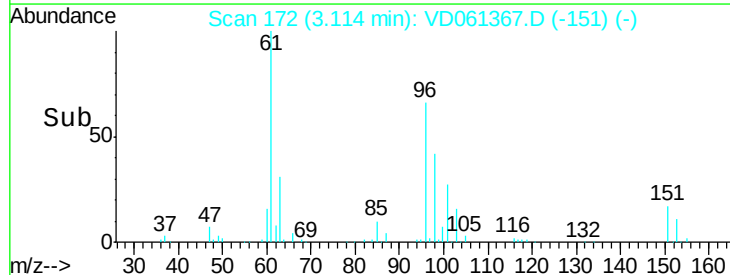
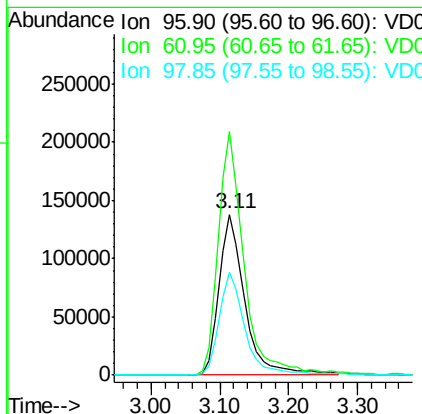
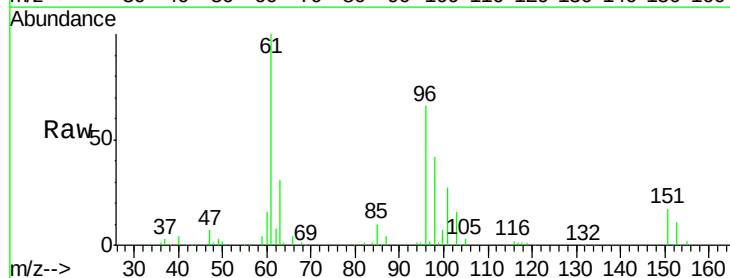
MMDadoda
3/29/2019 2:00:52 PM

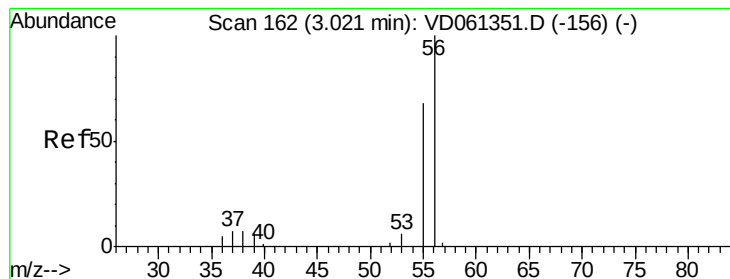


#12

1,1-Dichloroethene
Concen: 55.563 ug/l
RT: 3.11 min Scan# 172
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 96 Resp: 358217
Ion Ratio Lower Upper
96 100
61 151.3 124.9 187.3
98 64.1 52.5 78.7





#13

Acrolein

Concen: 238.457 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 58312

Ion Ratio Lower Upper

56 100

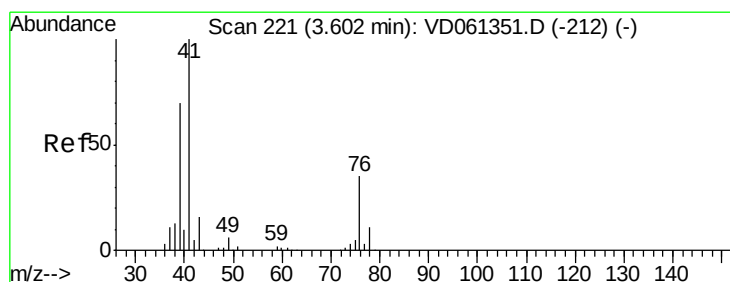
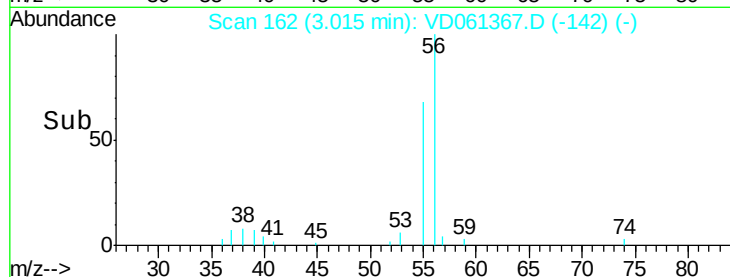
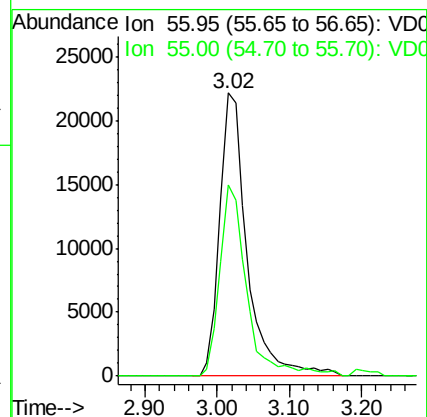
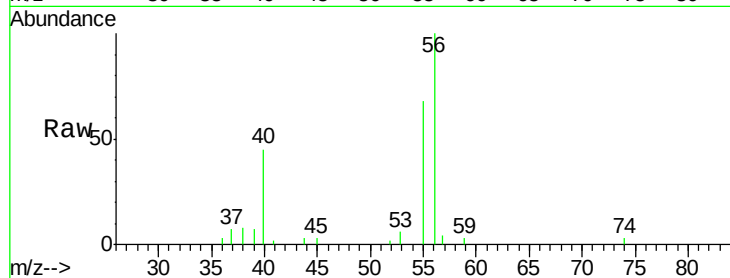
55 67.6 54.6 82.0

Manual Integrations

APPROVED

MMDadoda

3/29/2019 2:00:52 PM



#14

Allyl chloride

Concen: 58.203 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

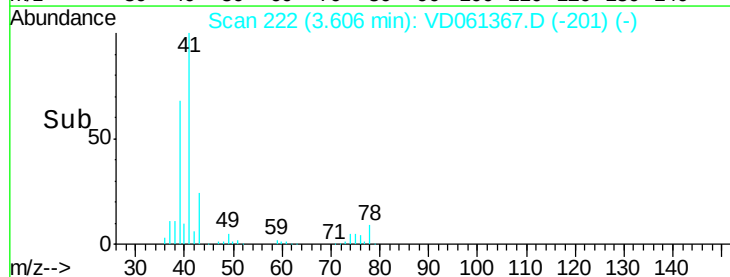
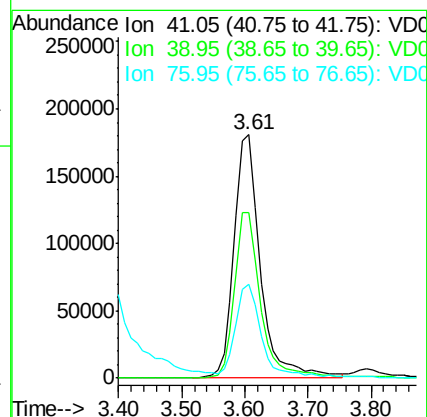
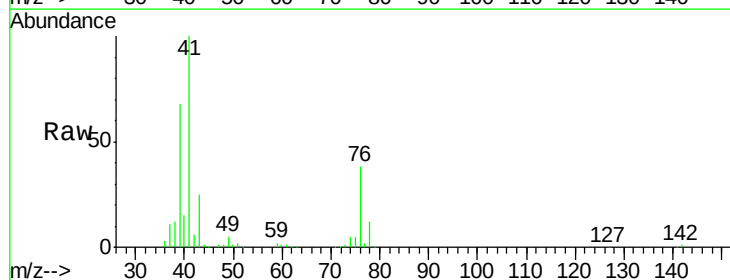
Tgt Ion: 41 Resp: 523373

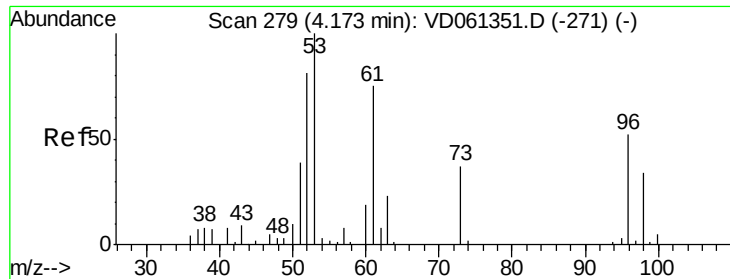
Ion Ratio Lower Upper

41 100

39 68.2 55.6 83.4

76 38.4 31.0 46.6





#15

Acrylonitrile

Concen: 302.336 ug/l

RT: 4.17 min Scan# 279

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

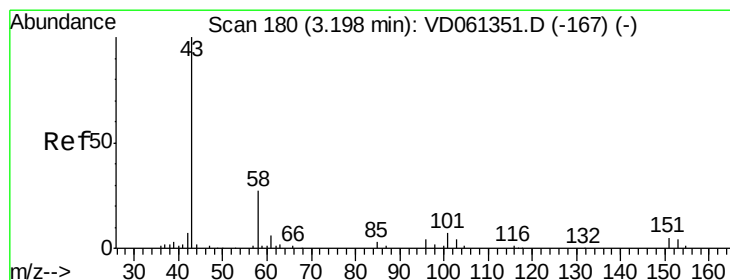
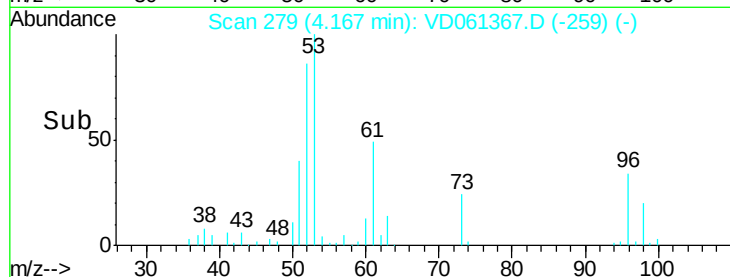
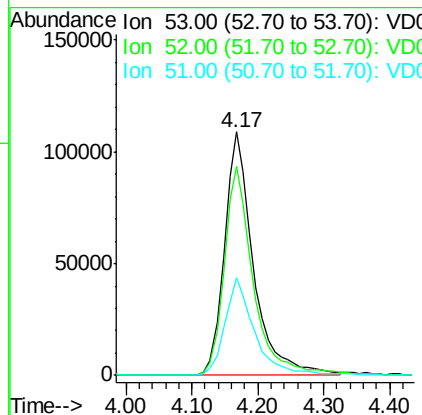
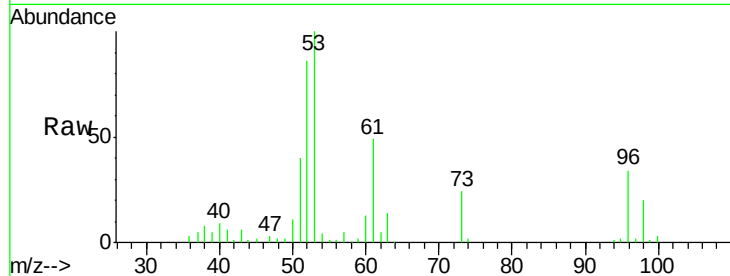
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	335304
Ion	Ratio	Lower	Upper
53	100		
52	85.9	64.8	97.2
51	40.1	31.4	47.2

Manual Integrations
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3/29/2019 2:00:52 PM



#16

Acetone

Concen: 263.945 ug/l

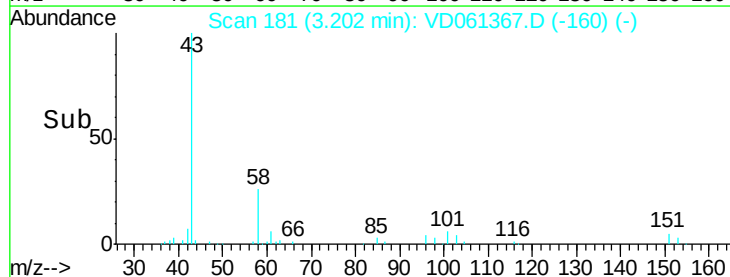
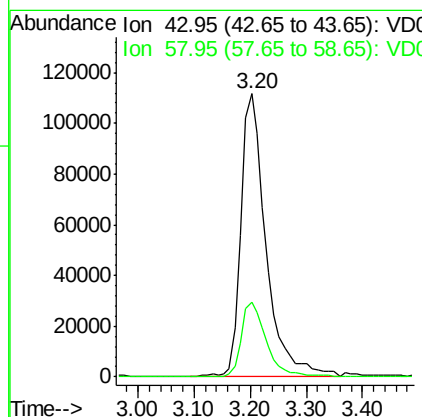
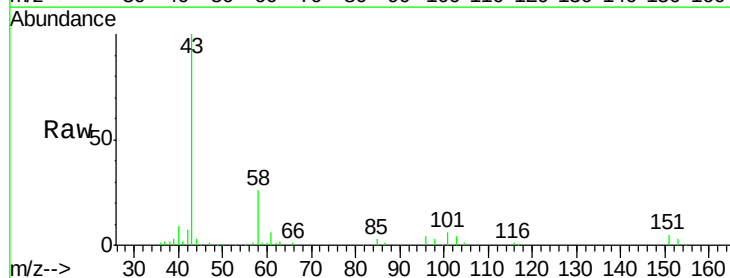
RT: 3.20 min Scan# 181

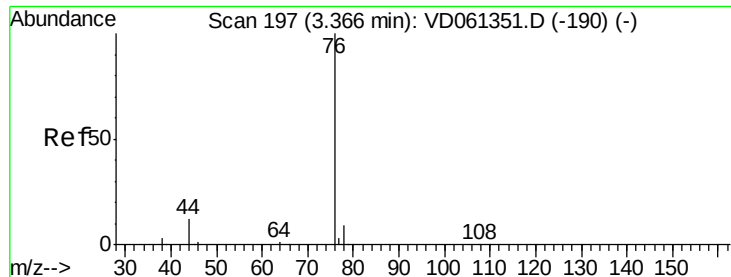
Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion:	43	Resp:	348138
Ion	Ratio	Lower	Upper
43	100		
58	26.4	21.5	32.3





#17

Carbon Disulfide

Concen: 52.125 ug/l

RT: 3.36 min Scan# 197

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 1091860

Ion Ratio Lower Upper

76 100

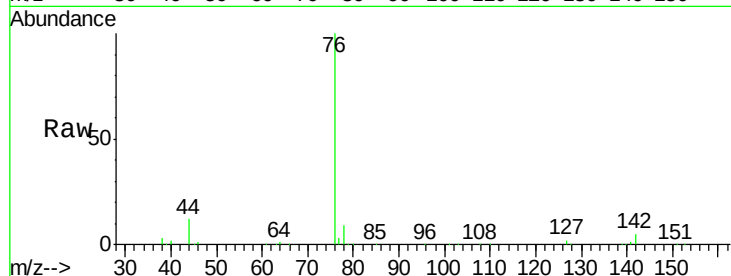
78 9.3 7.1 10.7

Manual Integrations

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3/29/2019 2:00:52 PM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

400000

300000

200000

100000

0

Time-->

3.20 3.30 3.40 3.50 3.60

3.36

3.36

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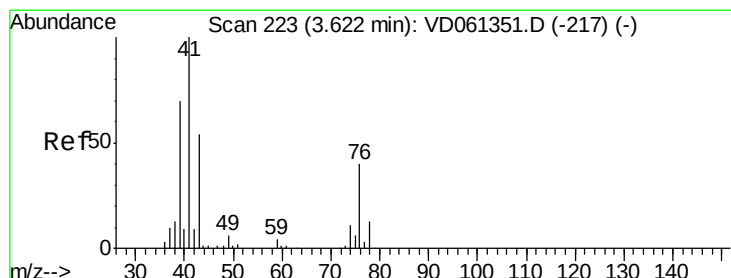
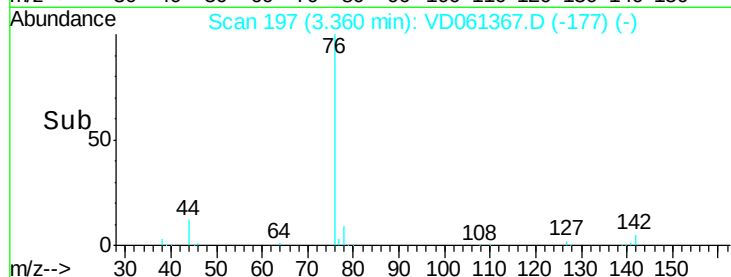
3.36

3.36

3.36

3.36

3.36



#18

Methyl Acetate

Concen: 56.363 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.01 min

Lab File: VD061367.D

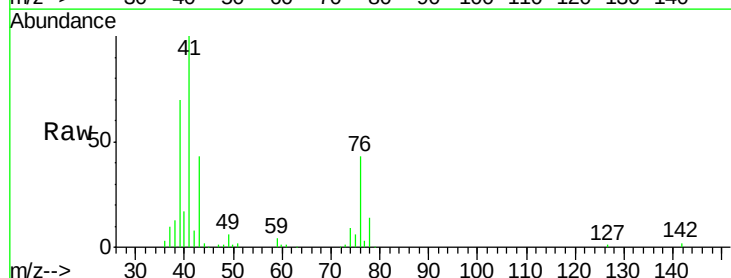
Acq: 27 Mar 2019 23:28

Tgt Ion: 43 Resp: 156306

Ion Ratio Lower Upper

43 100

74 20.8 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.62

60000

50000

40000

30000

20000

10000

0

Time-->

3.50 3.60 3.70 3.80

3.62

3.62

3.62

3.62

3.62

3.62

3.62

3.62

3.62

3.62

3.62

3.62

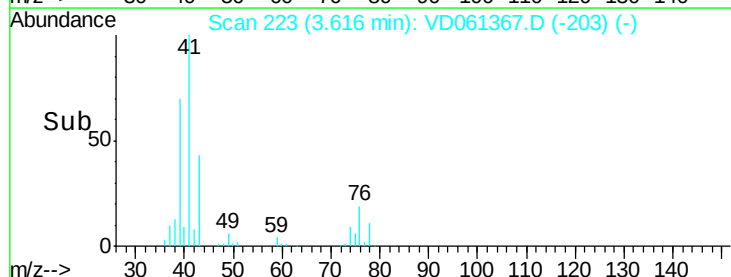
3.62

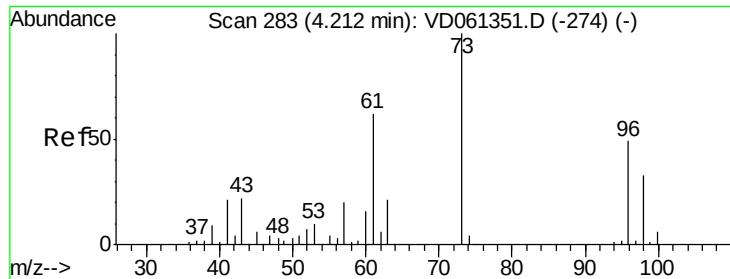
3.62

3.62

3.62

3.62





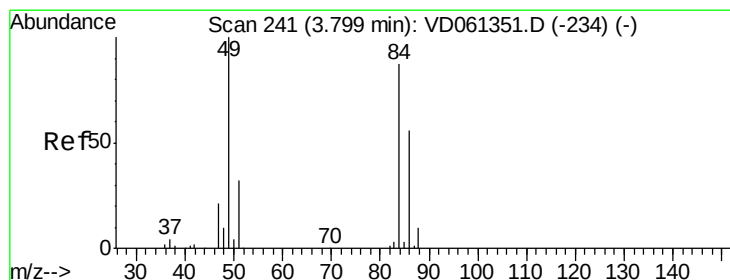
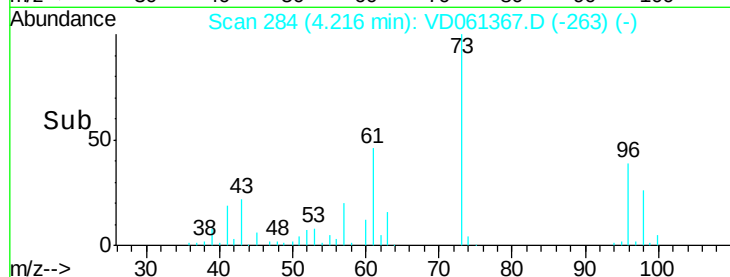
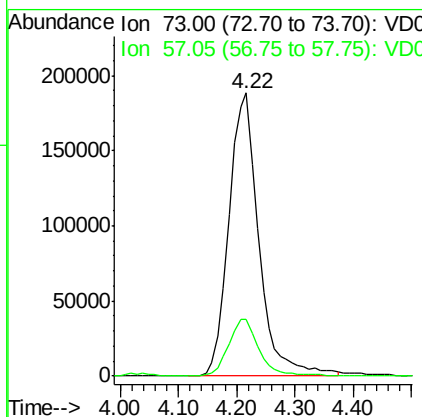
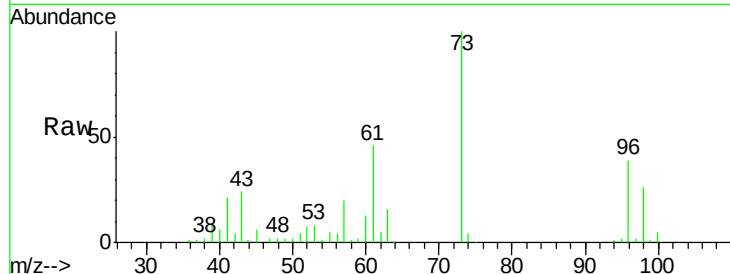
#19
Methyl tert-butyl Ether
Concen: 60.414 ug/l
RT: 4.22 min Scan# 284
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 674206
Ion Ratio Lower Upper
73 100
57 20.0 16.4 24.6

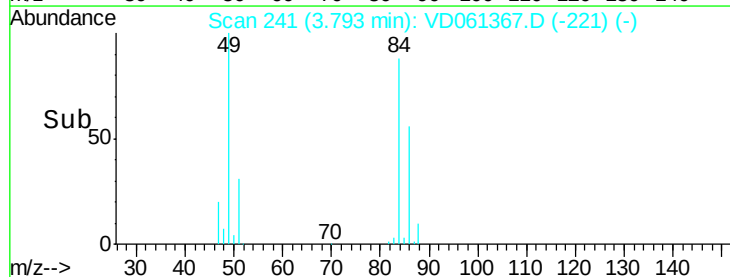
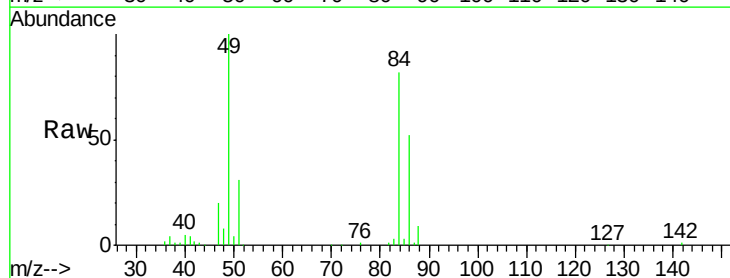
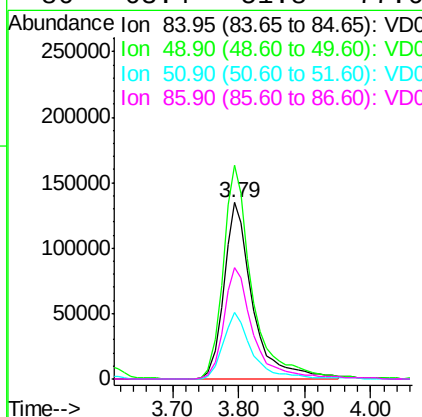
Manual Integrations
APPROVED

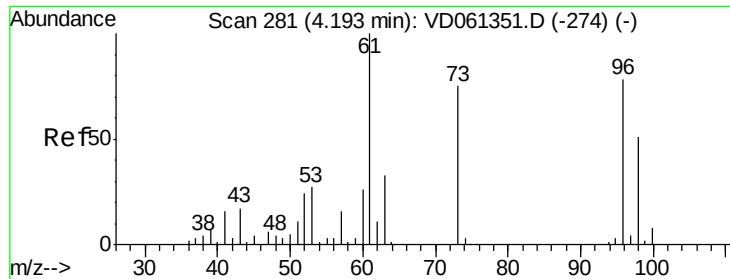
MMDadoda
3/29/2019 2:00:52 PM



#20
Methylene Chloride
Concen: 55.893 ug/l
RT: 3.79 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 84 Resp: 411312
Ion Ratio Lower Upper
84 100
49 121.3 91.8 137.8
51 37.6 29.8 44.8
86 63.4 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 57.721 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 401763

Ion Ratio Lower Upper

96 100

61 128.3 102.7 154.1

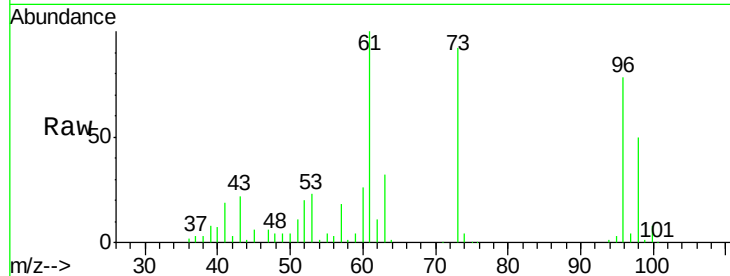
98 64.8 52.2 78.4

Manual Integrations

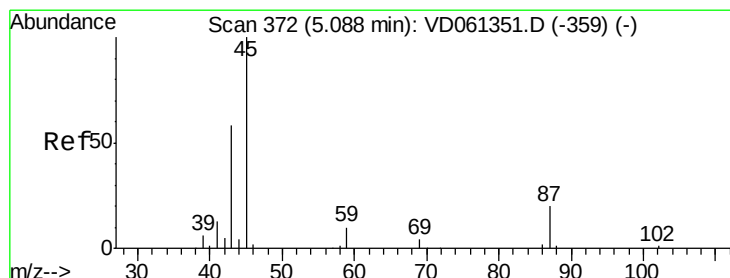
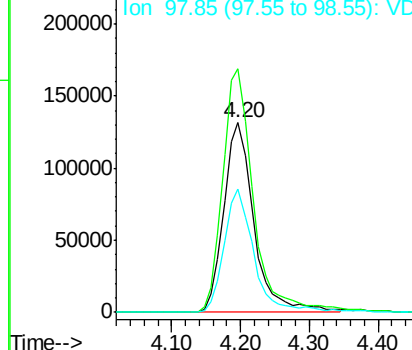
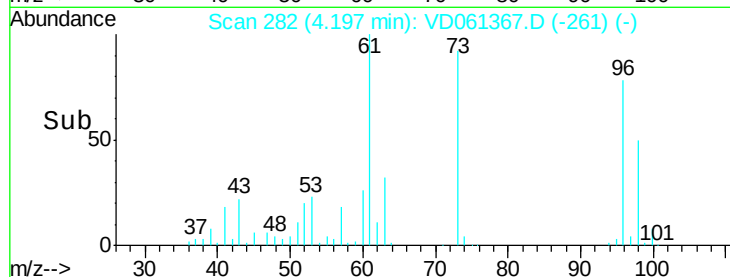
APPROVED

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3/29/2019 2:00:52 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: 59.523 ug/l

RT: 5.08 min Scan# 372

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion: 45 Resp: 1132653

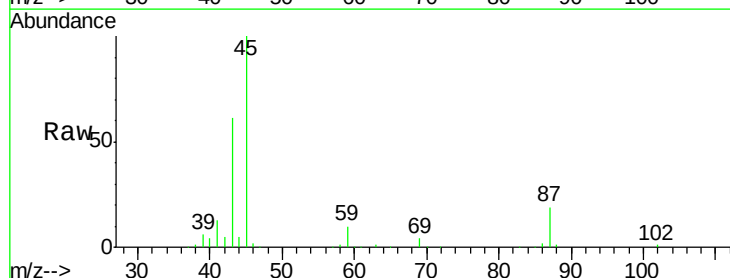
Ion Ratio Lower Upper

45 100

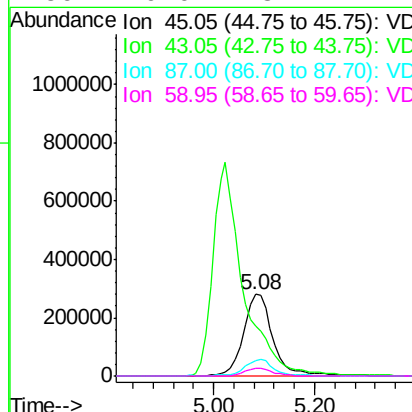
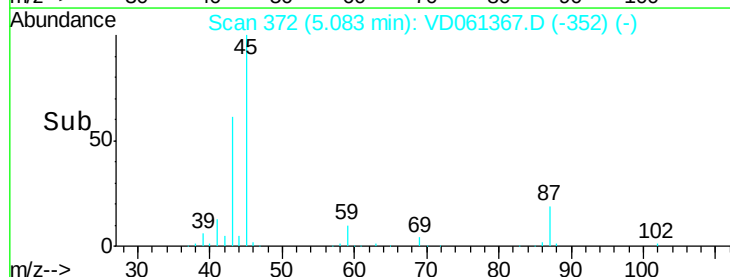
43 61.3 47.4 71.2

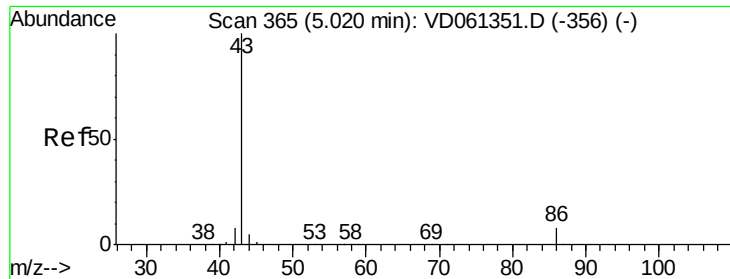
87 19.5 16.3 24.5

59 10.0 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: 294.504 ug/l

RT: 5.02 min Scan# 366

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 3044075

Ion Ratio Lower Upper

43 100

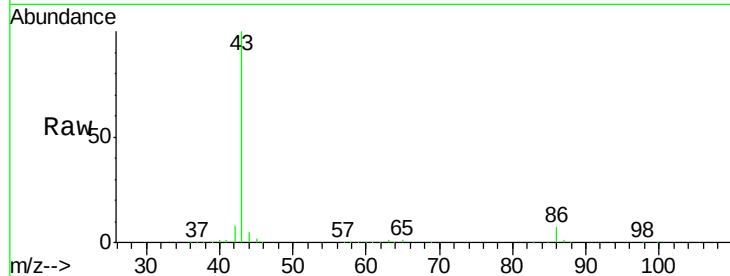
86 7.5 6.7 10.1

Manual Integrations

APPROVED

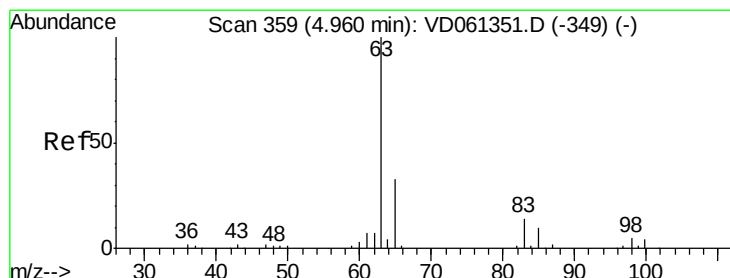
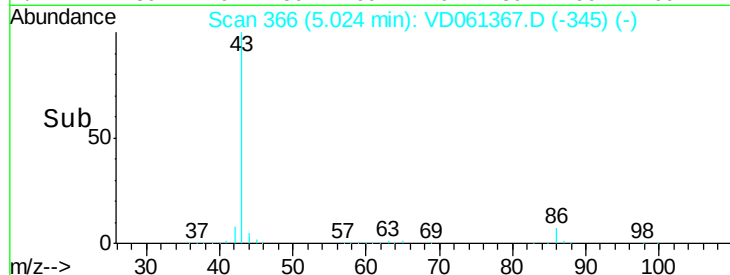
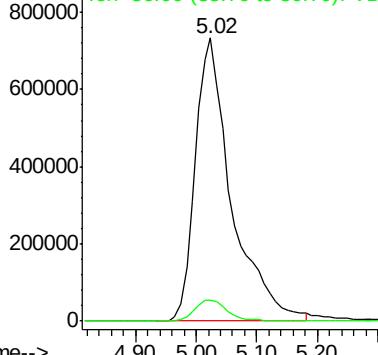
MMDadoda

3/29/2019 2:00:52 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: 59.295 ug/l

RT: 4.95 min Scan# 359

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

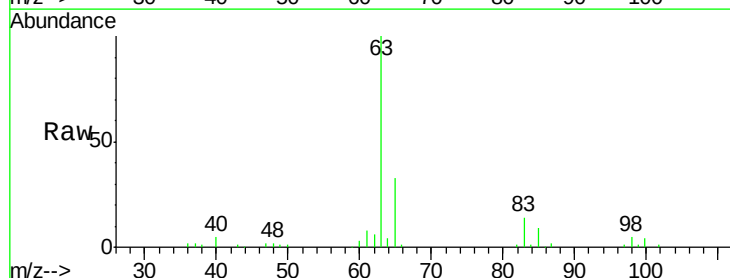
Tgt Ion: 63 Resp: 663098

Ion Ratio Lower Upper

63 100

98 5.4 2.6 8.0

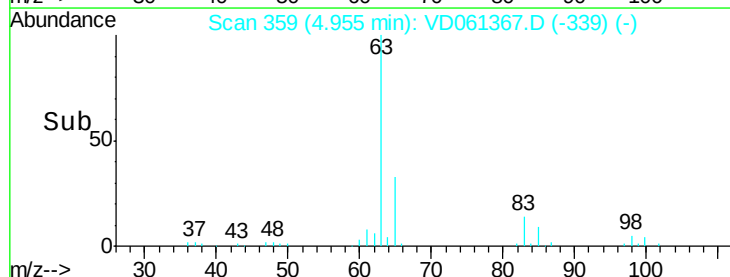
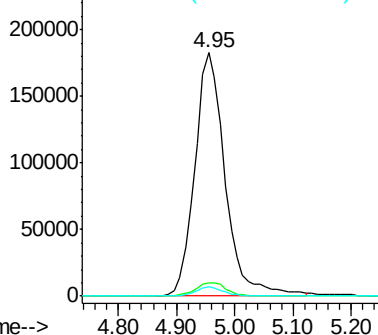
100 3.7 1.8 5.3

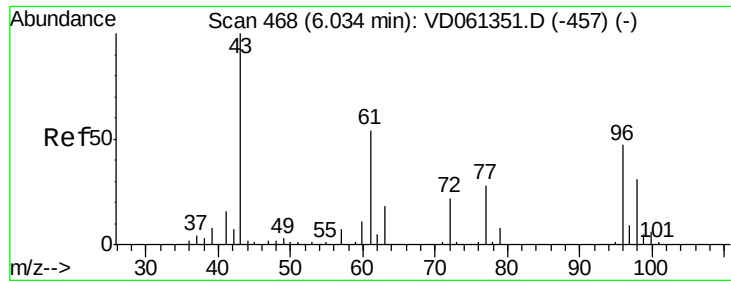


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 283.797 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 470865

Ion Ratio Lower Upper

43 100

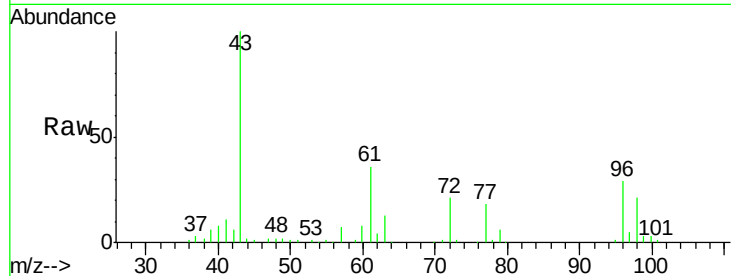
72 21.4 17.2 25.8

Manual Integrations

APPROVED

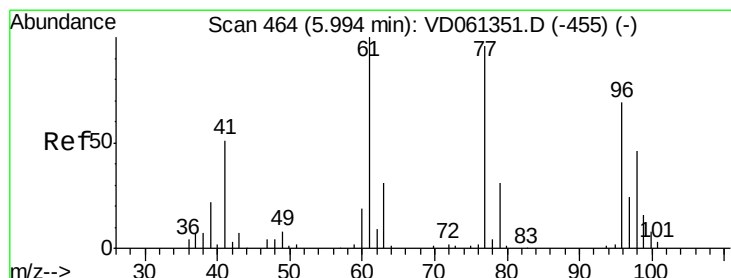
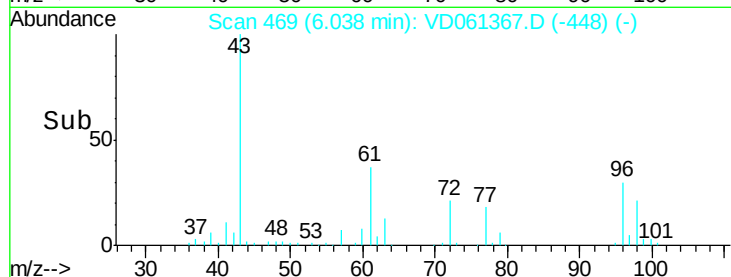
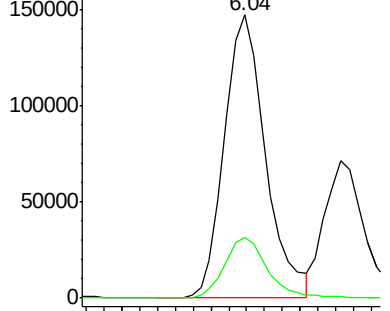
MMDadoda

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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: 54.920 ug/l

RT: 5.99 min Scan# 464

Delta R.T. -0.01 min

Lab File: VD061367.D

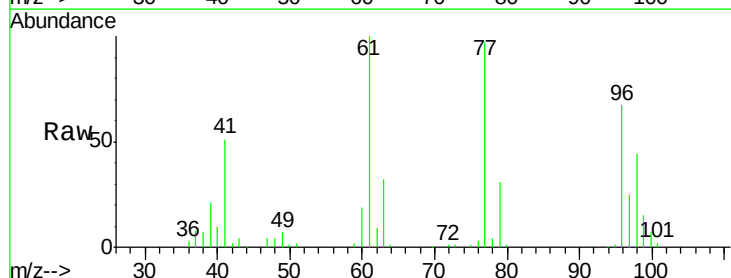
Acq: 27 Mar 2019 23:28

Tgt Ion: 77 Resp: 488227

Ion Ratio Lower Upper

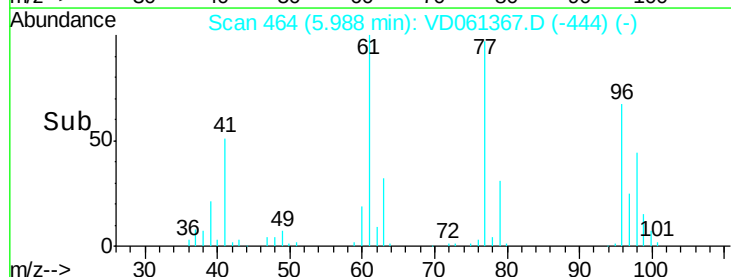
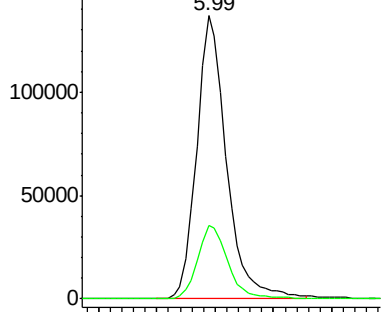
77 100

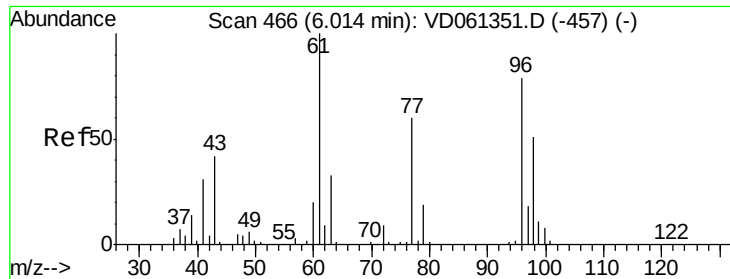
97 25.9 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

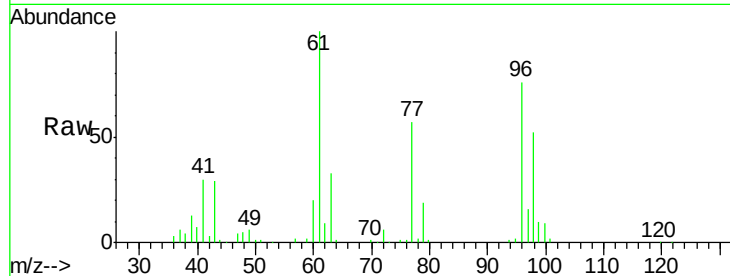
cis-1,2-Dichloroethene
Concen: 59.035 ug/l
RT: 6.01 min Scan# 466
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

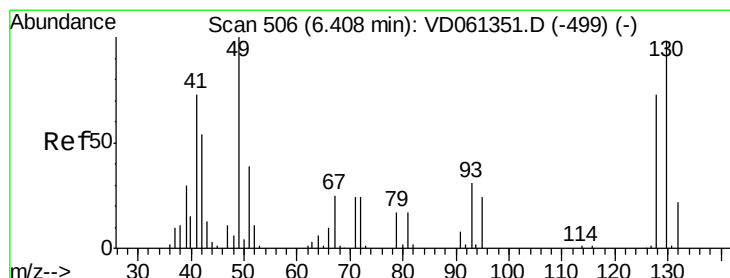
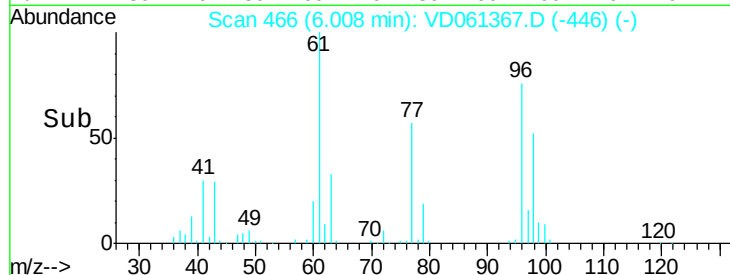
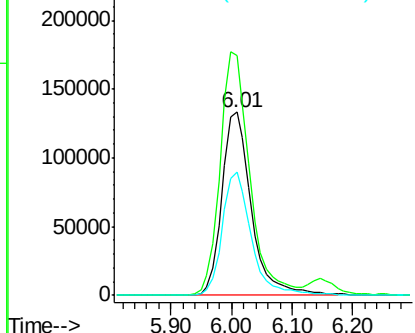
Tgt Ion	Ratio	Resp	Lower	Upper
96	100	450210		
61	130.9	0.0	251.6	
98	67.6	0.0	129.2	

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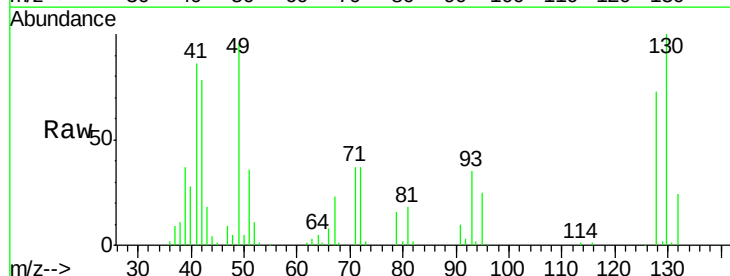
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



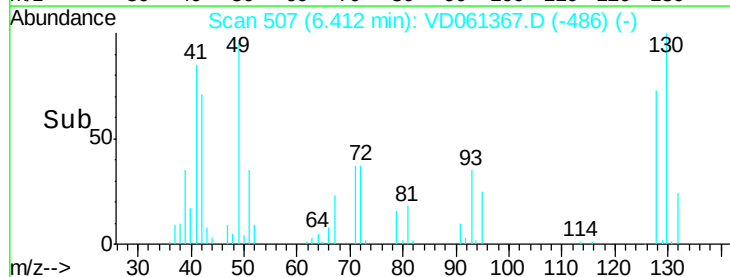
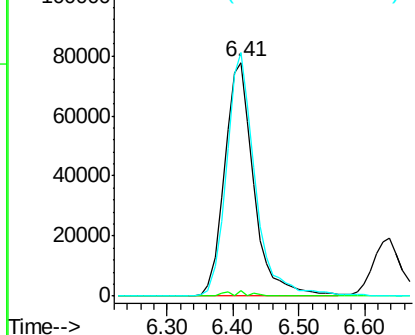
#28

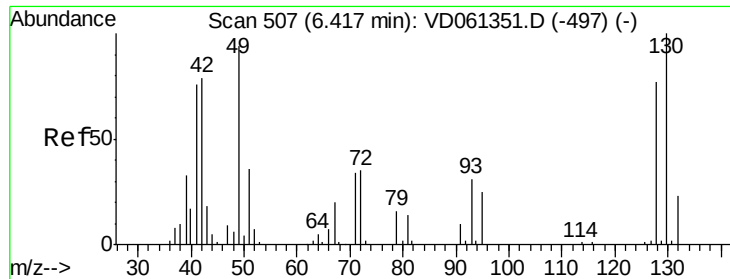
Bromochloromethane
Concen: 53.457 ug/l
RT: 6.41 min Scan# 507
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	0.0#
130	104.3	78.4	117.6



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC





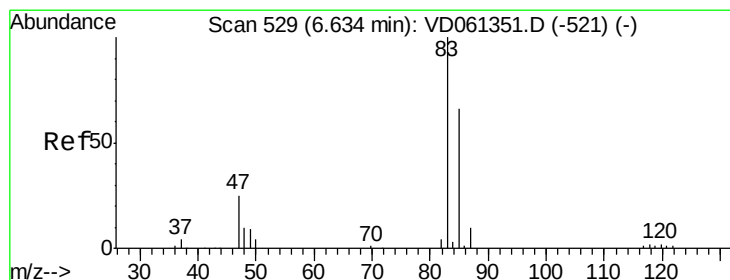
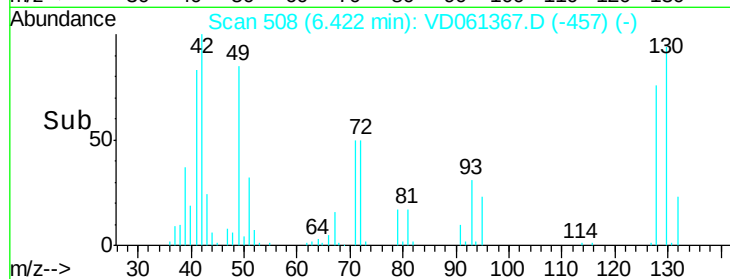
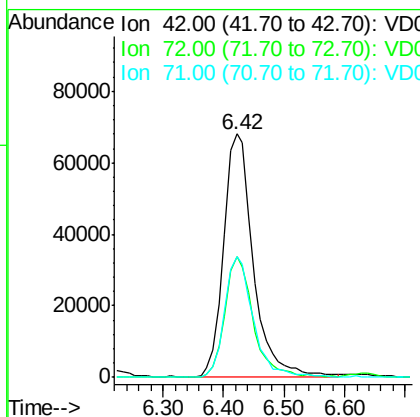
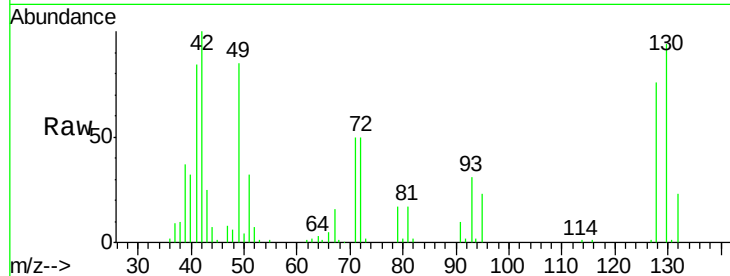
#29
Tetrahydrofuran
Concen: 289.006 ug/l
RT: 6.42 min Scan# 508
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.4	56.0
71	47.6	36.7	55.1

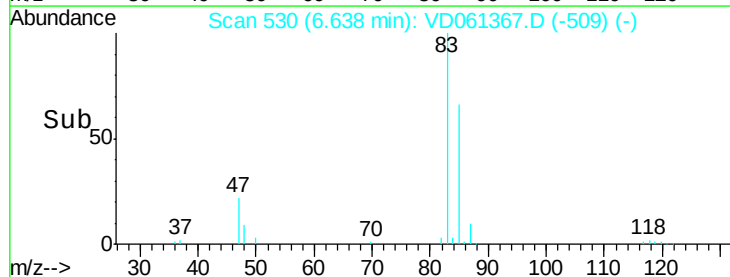
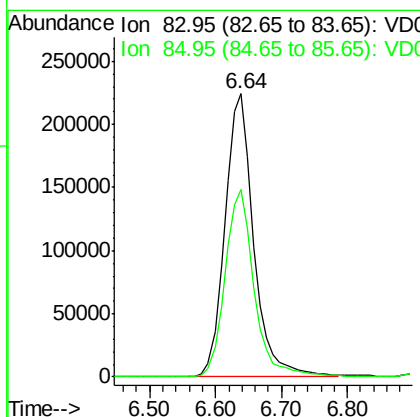
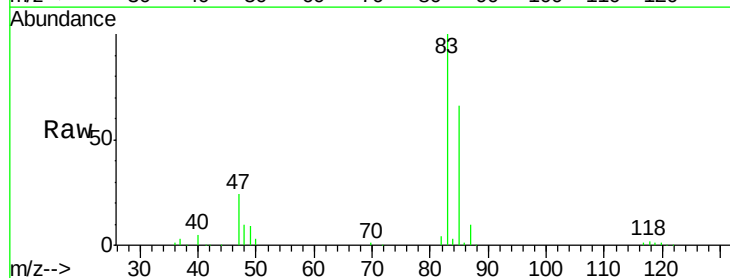
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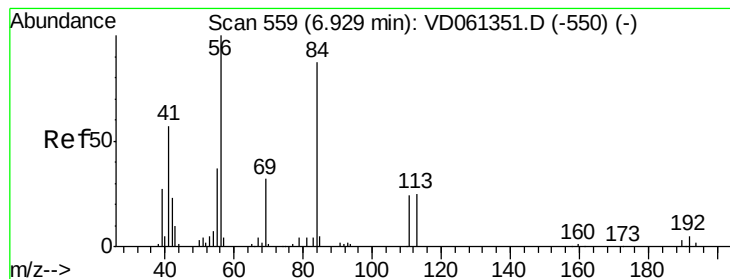
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#30
Chloroform
Concen: 59.259 ug/l
RT: 6.64 min Scan# 530
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	53.0	79.4





#31

Cyclohexane

Concen: 52.233 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 461596
Ion Ratio Lower Upper

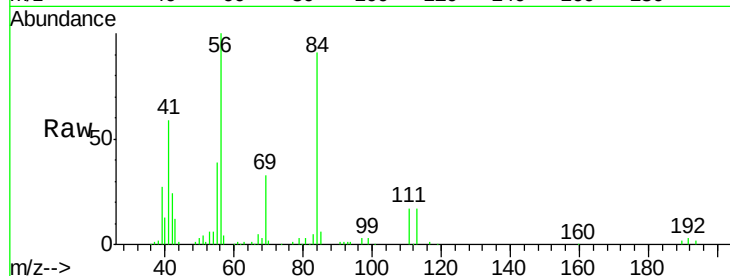
56 100

69 32.9 25.7 38.5

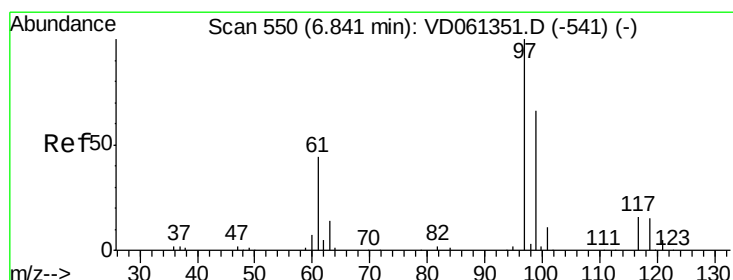
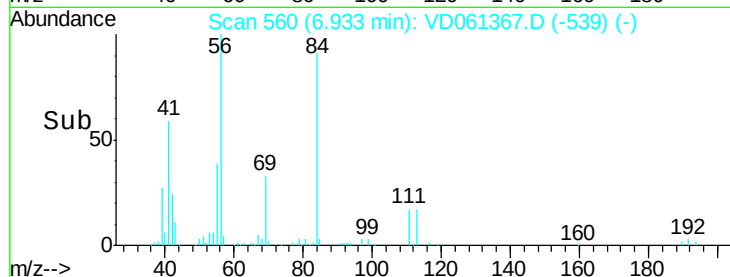
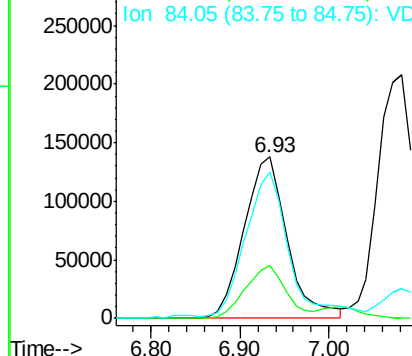
84 90.9 70.6 105.8

Manual Integrations
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Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 57.780 ug/l

RT: 6.84 min Scan# 551

Delta R.T. 0.00 min

Lab File: VD061367.D

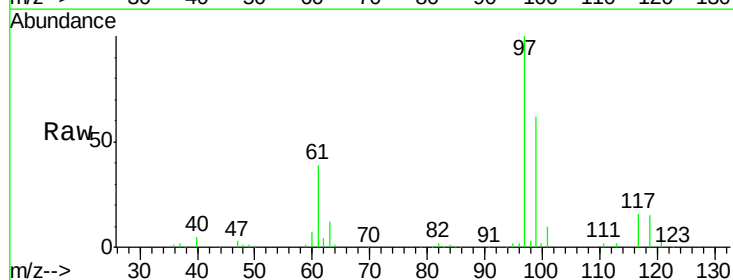
Acq: 27 Mar 2019 23:28

Tgt Ion: 97 Resp: 589020
Ion Ratio Lower Upper

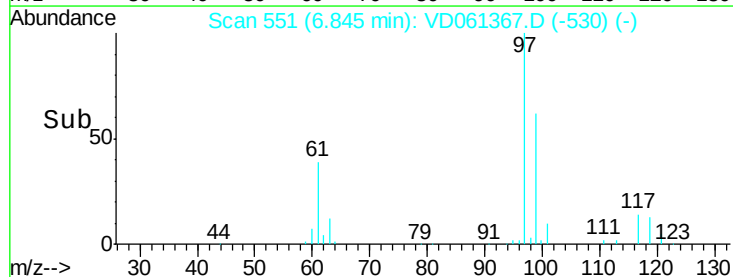
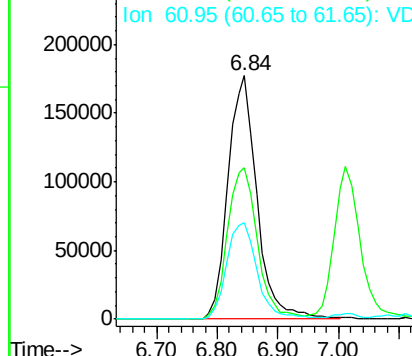
97 100

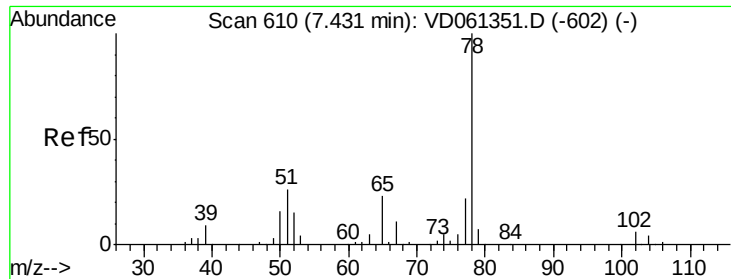
99 62.0 53.1 79.7

61 39.5 35.5 53.3



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





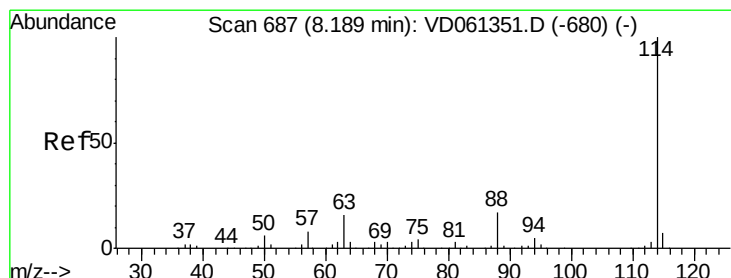
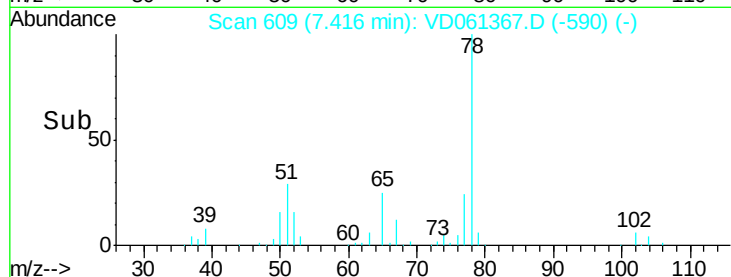
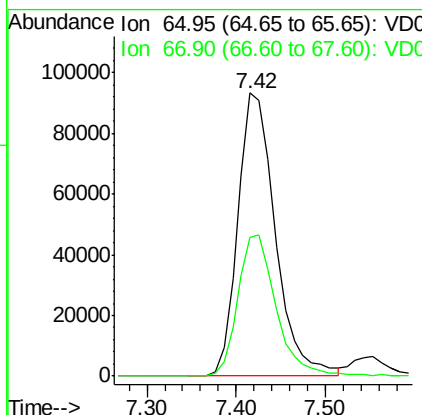
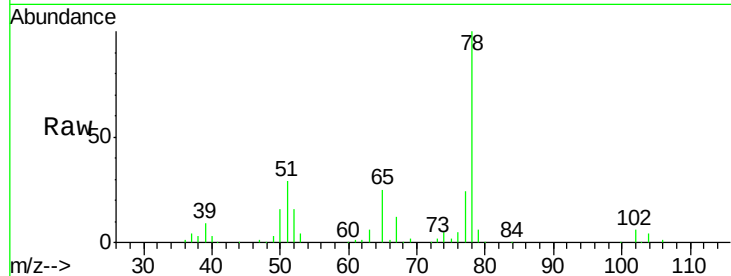
#33
 1,2-Dichloroethane-d4
 Concen: 57.780 ug/l
 RT: 7.42 min Scan# 609
 Delta R.T. -0.02 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 65 Resp: 273102
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 99.8

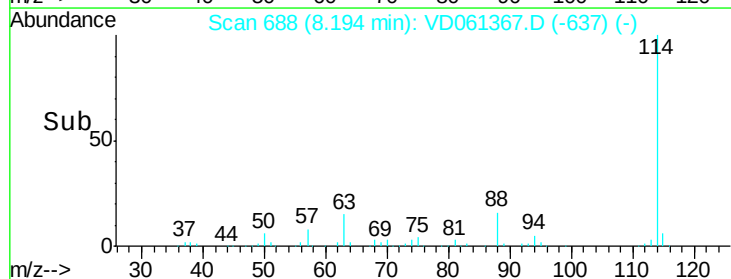
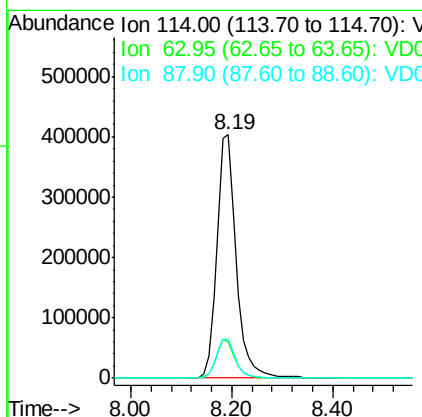
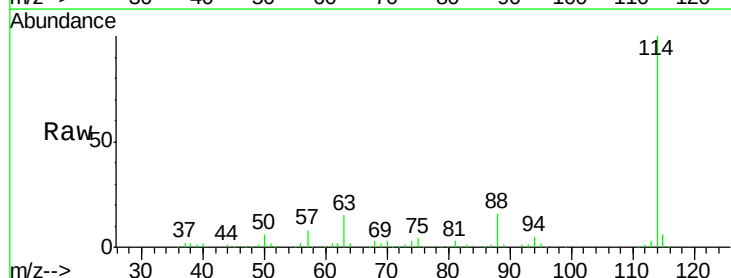
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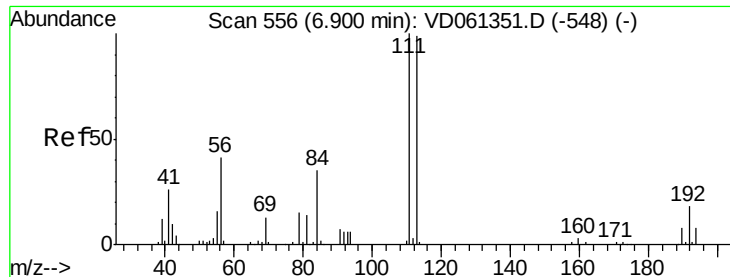
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 688
 Delta R.T. 0.00 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion: 114 Resp: 1092801
 Ion Ratio Lower Upper
 114 100
 63 15.0 0.0 31.6
 88 16.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.89 min Scan# 556

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

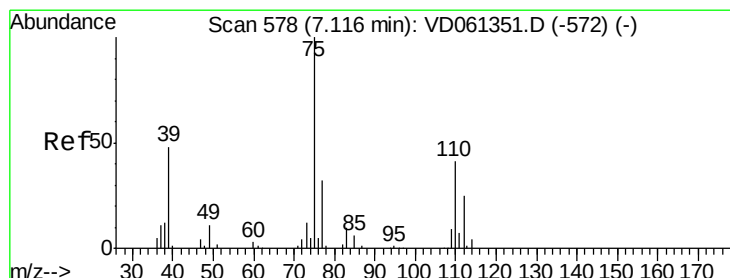
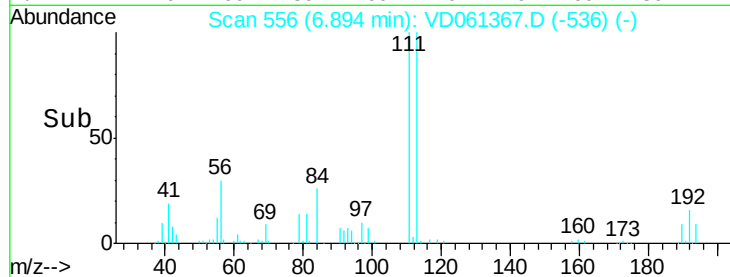
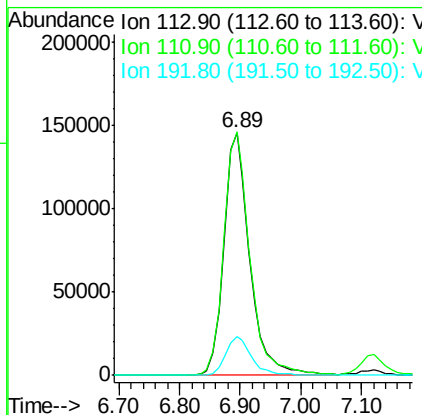
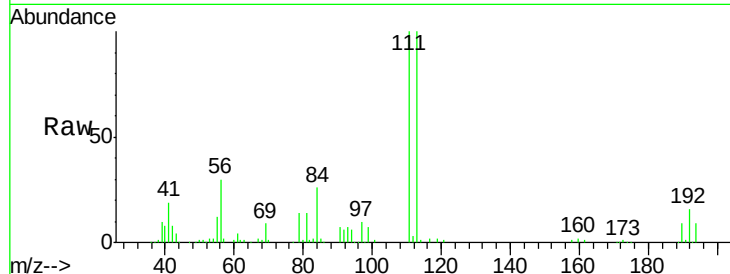
ClientSampleId :

VSTDCCC050

Tgt Ion:	113	Resp:	431018
Ion Ratio	Lower	Upper	
113	100		
111	100.4	81.0	121.6
192	15.9	14.4	21.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 50.694 ug/l

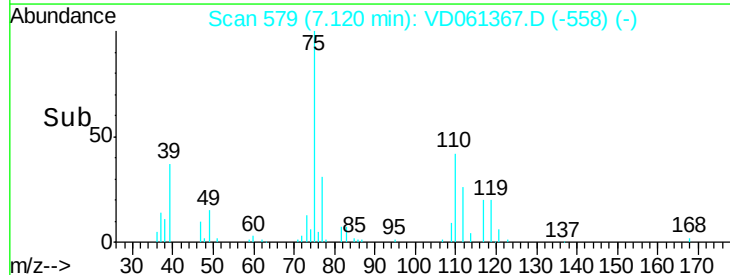
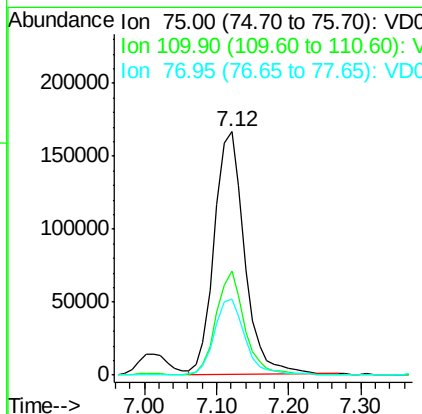
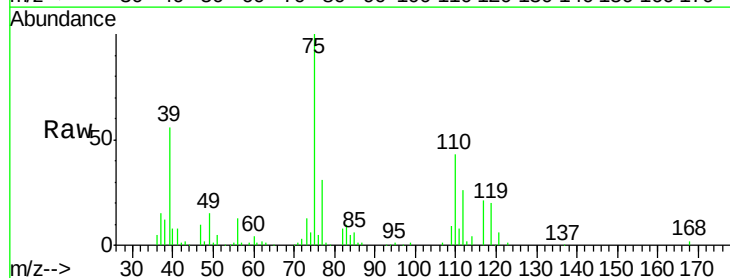
RT: 7.12 min Scan# 579

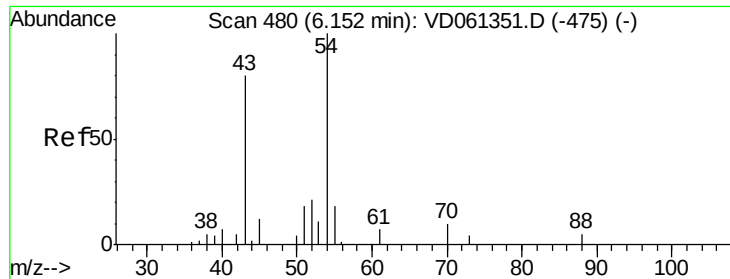
Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion:	75	Resp:	483506
Ion Ratio	Lower	Upper	
75	100		
110	43.0	20.4	61.3
77	31.4	24.9	37.3





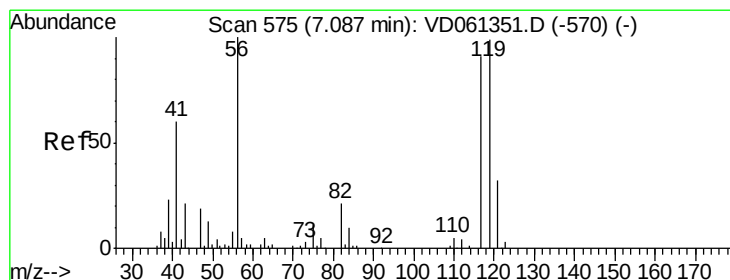
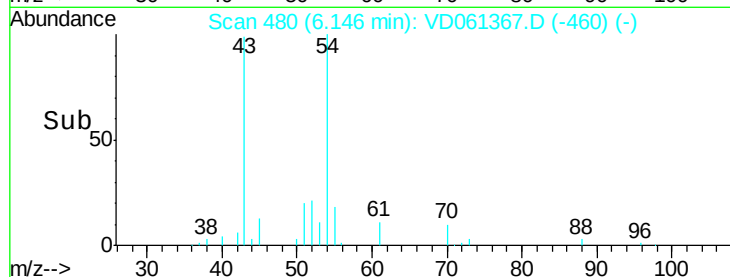
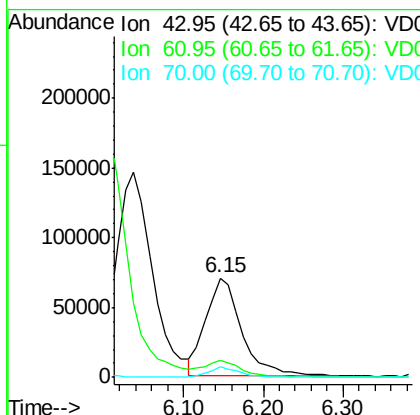
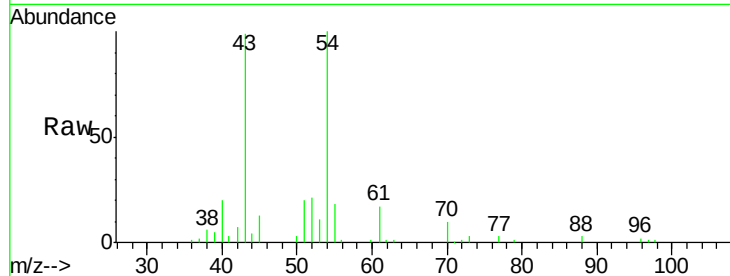
#37
Ethyl Acetate
 Concen: 54.119 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.1	13.8	20.8
70	10.2	7.8	11.8

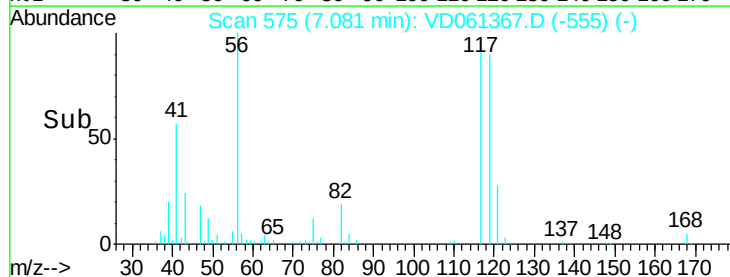
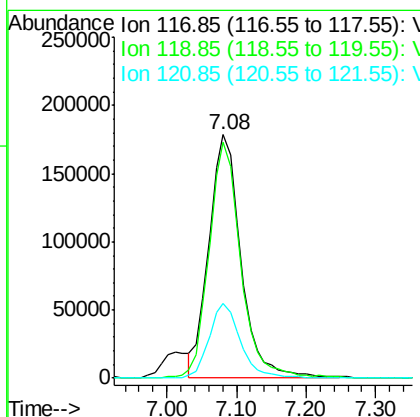
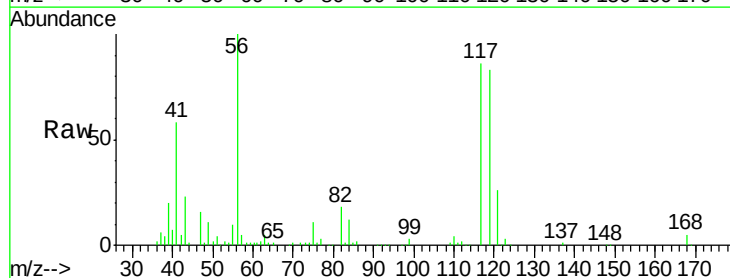
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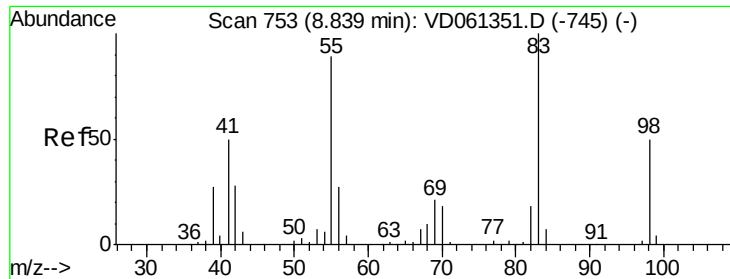
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#38
Carbon Tetrachloride
 Concen: 52.374 ug/l m
 RT: 7.08 min Scan# 575
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	80.1	120.1
121	30.5	25.6	38.4





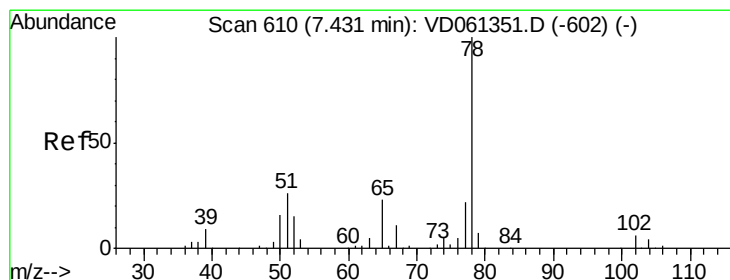
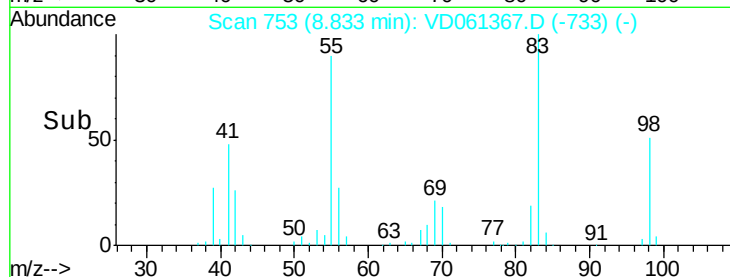
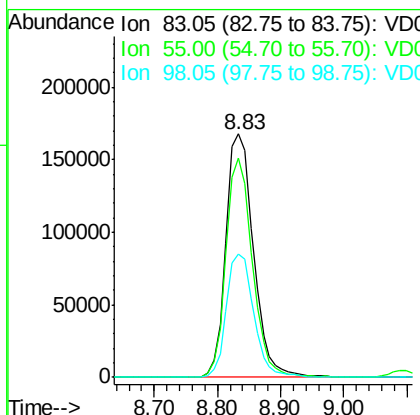
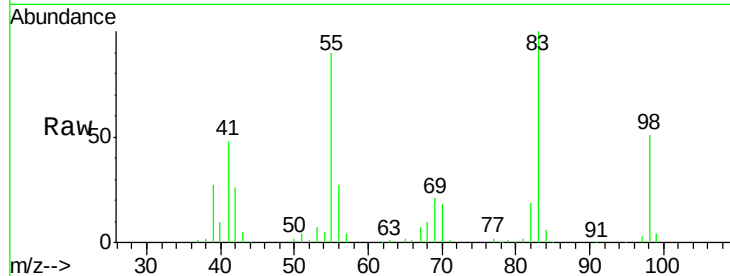
#39
Methylcyclohexane
Concen: 51.176 ug/l
RT: 8.83 min Scan# 753
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
83	100		
55	89.9	71.5	107.3
98	50.9	40.3	60.5

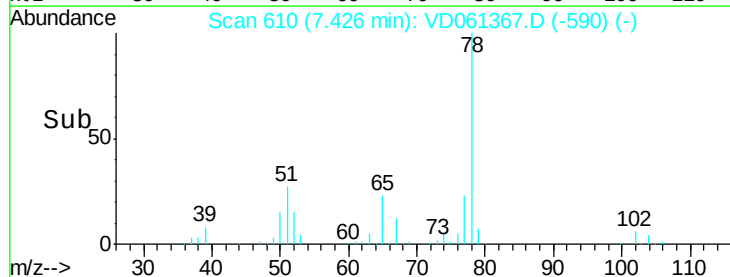
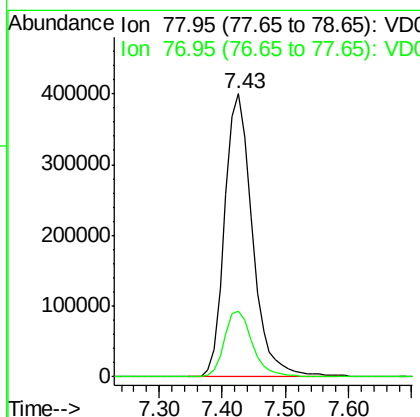
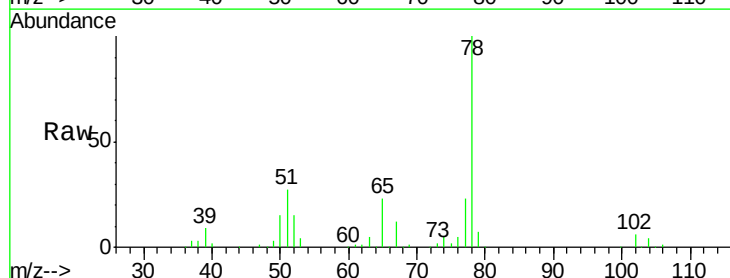
Manual Integrations
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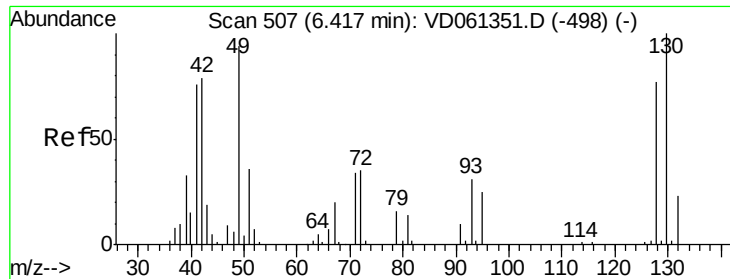
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#40
Benzene
Concen: 51.168 ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	17.8	26.6





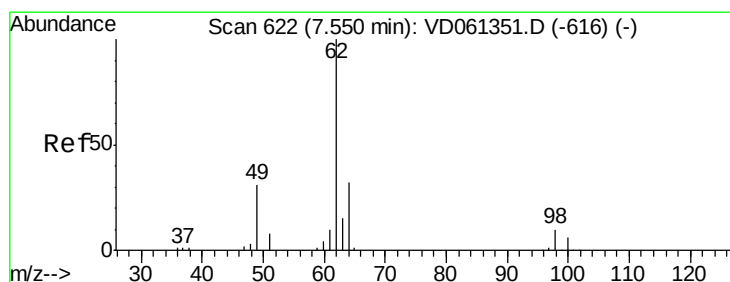
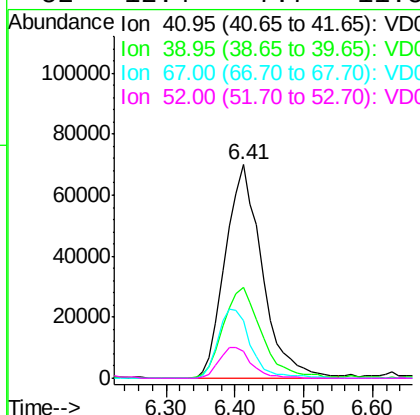
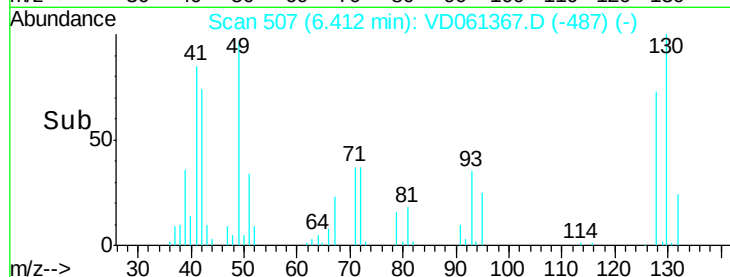
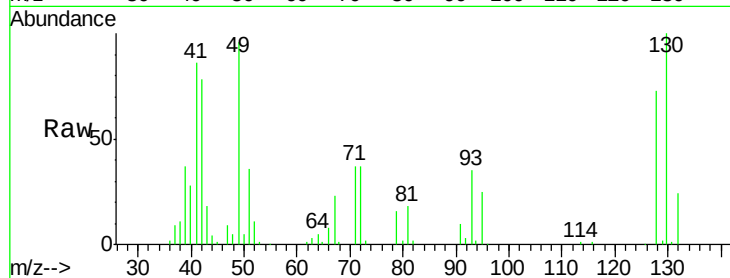
#41
Methacrylonitrile
Concen: 54.572 ug/l
RT: 6.41 min Scan# 507
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 260276
Ion Ratio Lower Upper
41 100
39 42.7 35.0 52.6
67 27.1 21.0 31.6
52 12.4 7.7 11.5#

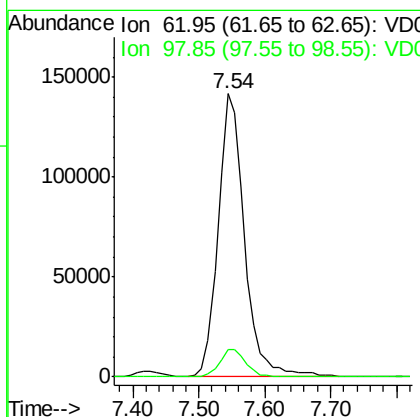
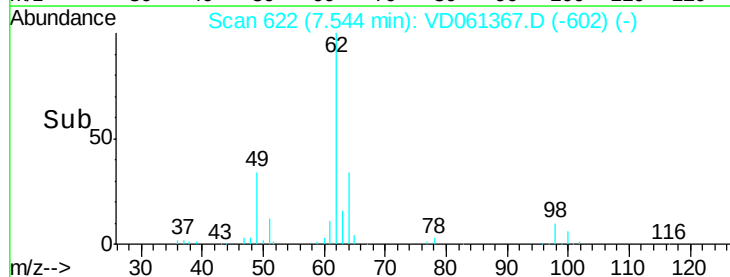
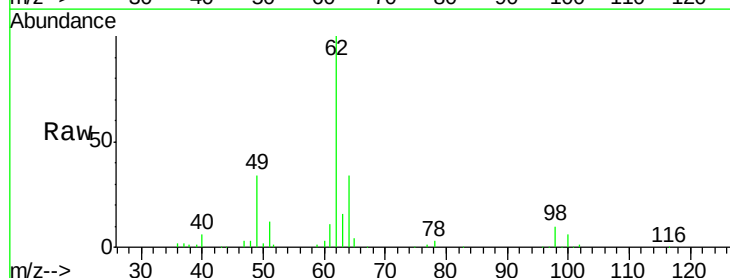
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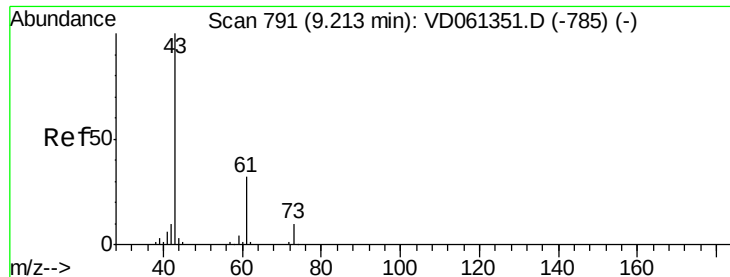
MMDadoda
3/29/2019 2:00:52 PM



#42
1,2-Dichloroethane
Concen: 55.025 ug/l
RT: 7.54 min Scan# 622
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 62 Resp: 393990
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.8





#43

Isopropyl Acetate

Concen: 58.201 ug/l

RT: 9.21 min Scan# 791

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

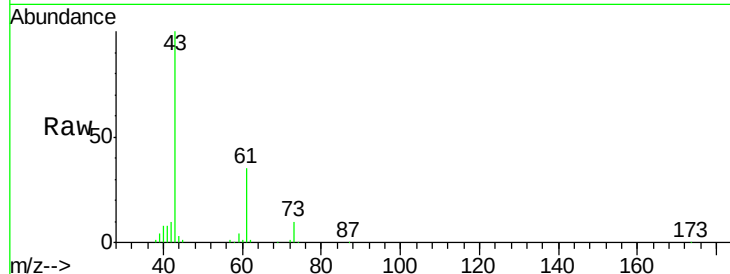
ClientSampleId :

VSTDCCC050

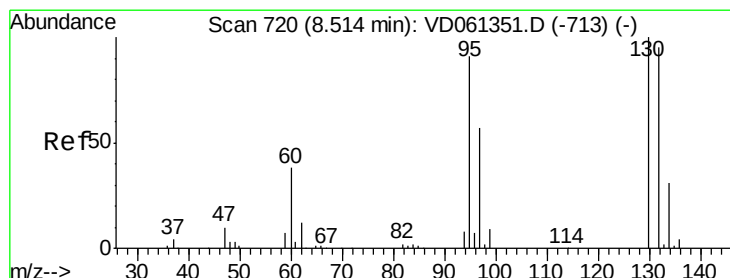
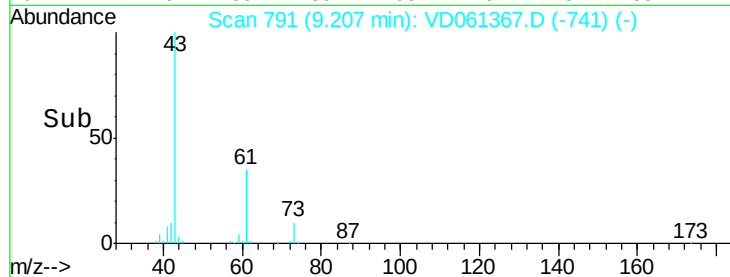
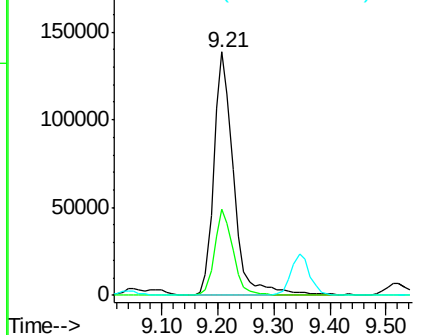
Tgt Ion:	43	Resp:	345417
Ion Ratio	Lower	Upper	
43	100		
61	35.2	25.8	38.6
87	0.2	0.0	0.0#

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: 52.077 ug/l

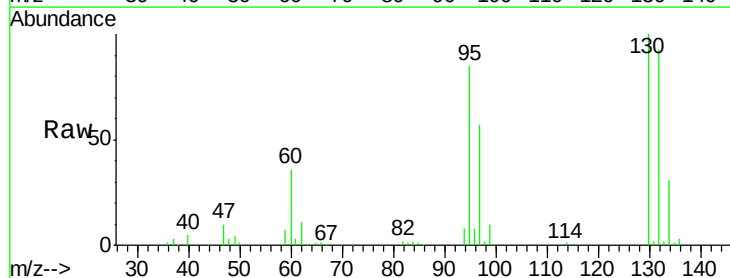
RT: 8.51 min Scan# 720

Delta R.T. -0.01 min

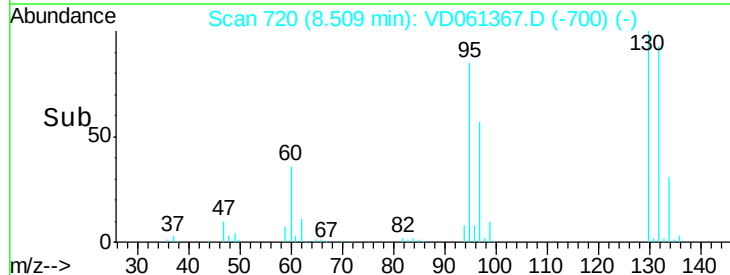
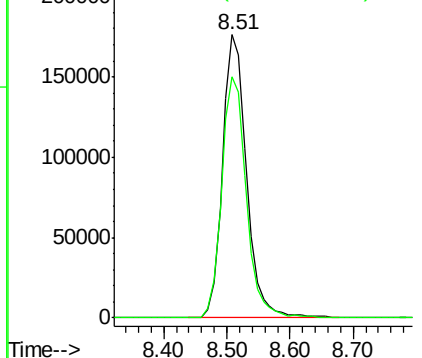
Lab File: VD061367.D

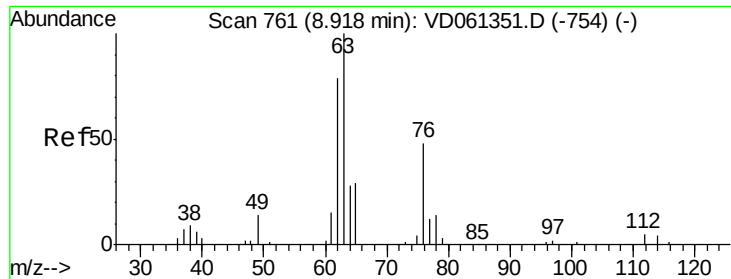
Acq: 27 Mar 2019 23:28

Tgt Ion:	130	Resp:	463902
Ion Ratio	Lower	Upper	
130	100		
95	85.2	0.0	181.4



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





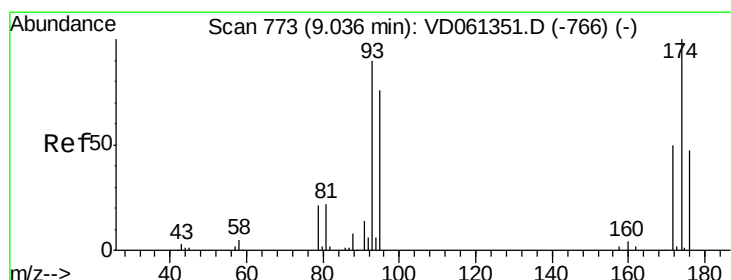
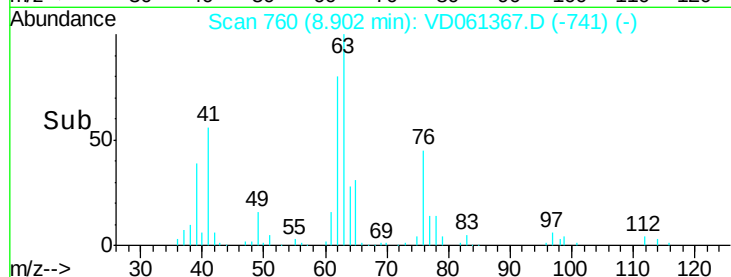
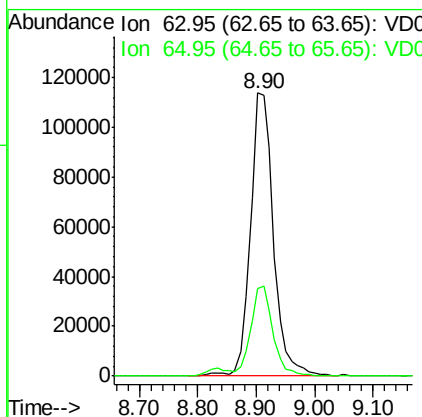
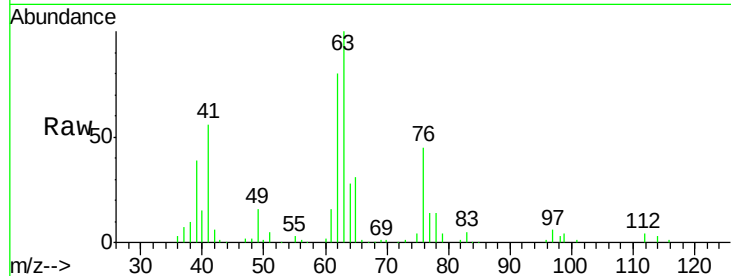
#45
1,2-Dichloropropane
Concen: 52.286 ug/l
RT: 8.90 min Scan# 760
Delta R.T. -0.02 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 317359
Ion Ratio Lower Upper
63 100
65 30.9 25.0 37.4

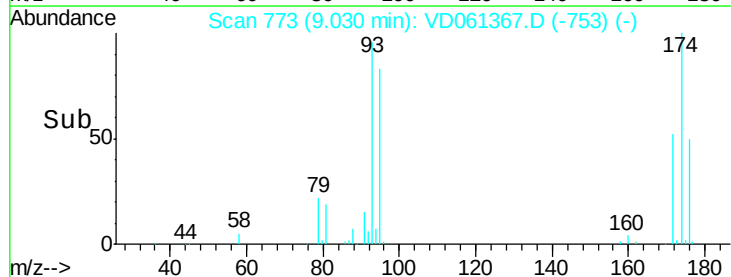
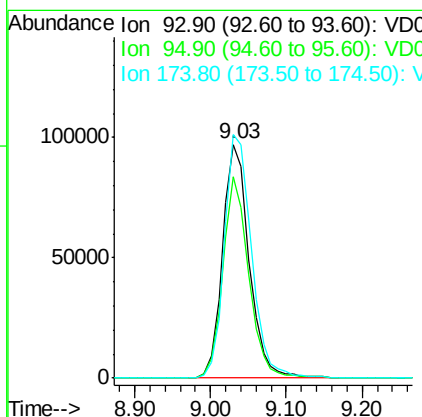
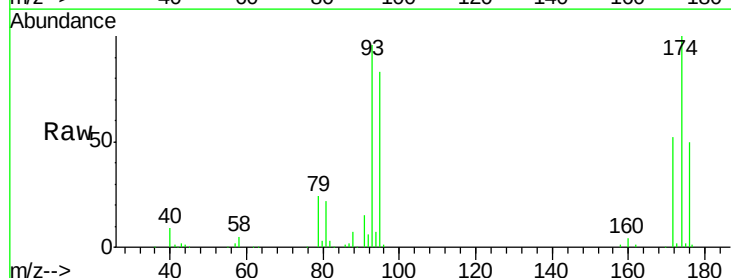
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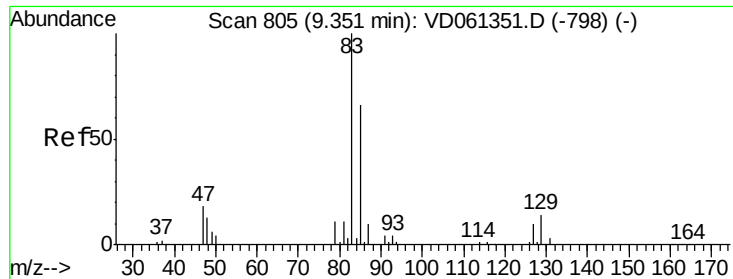
MMDadoda
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#46
Dibromomethane
Concen: 57.785 ug/l
RT: 9.03 min Scan# 773
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 93 Resp: 236073
Ion Ratio Lower Upper
93 100
95 86.3 67.4 101.0
174 104.1 88.9 133.3





#47

Bromodichloromethane

Concen: 58.271 ug/l

RT: 9.35 min Scan# 805

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

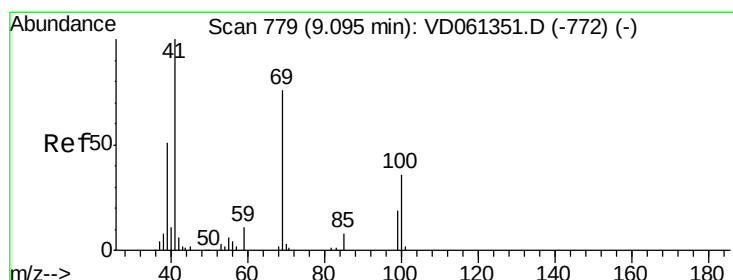
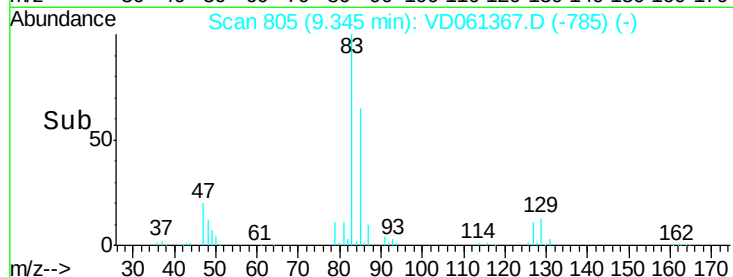
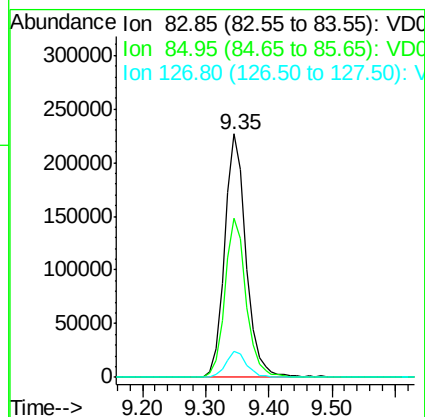
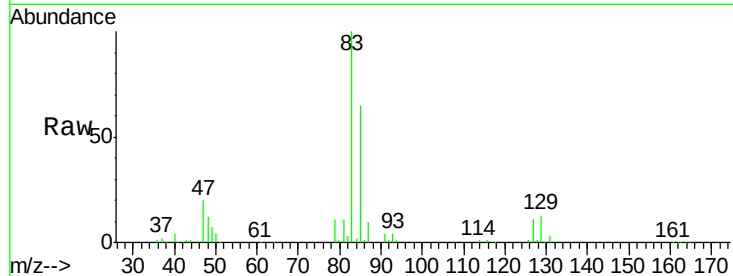
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	534311
Ion Ratio	Lower	Upper	
83	100		
85	65.1	53.0	79.4
127	10.6	8.4	12.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 52.456 ug/l

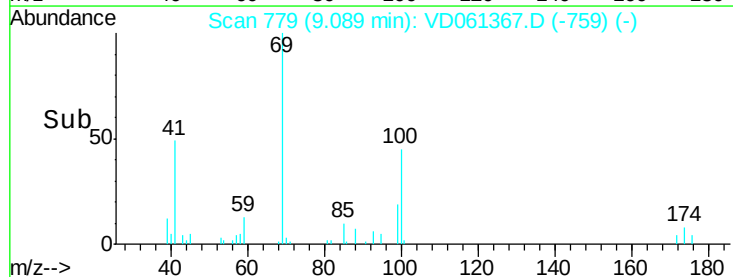
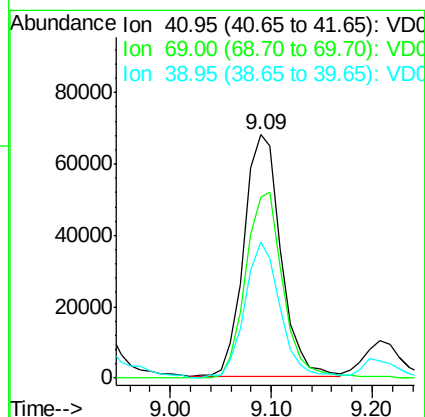
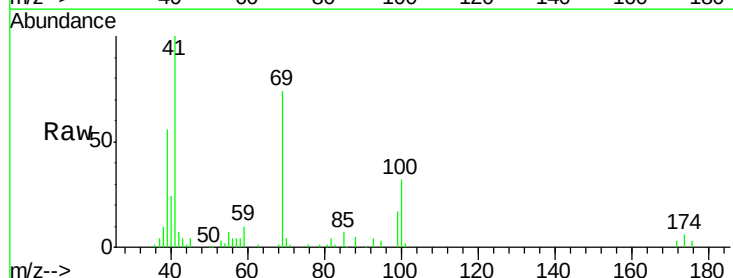
RT: 9.09 min Scan# 779

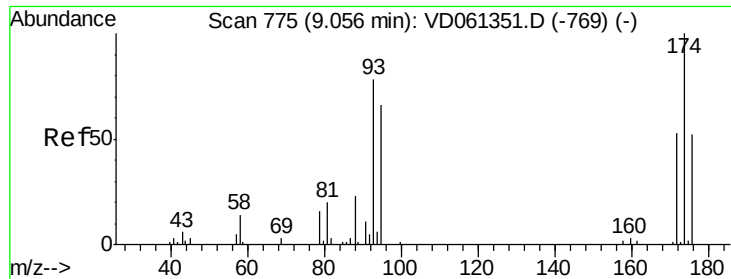
Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion:	41	Resp:	171815
Ion Ratio	Lower	Upper	
41	100		
69	74.2	60.2	90.4
39	55.7	41.4	62.2





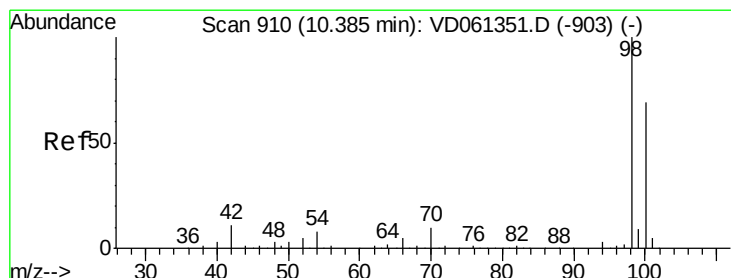
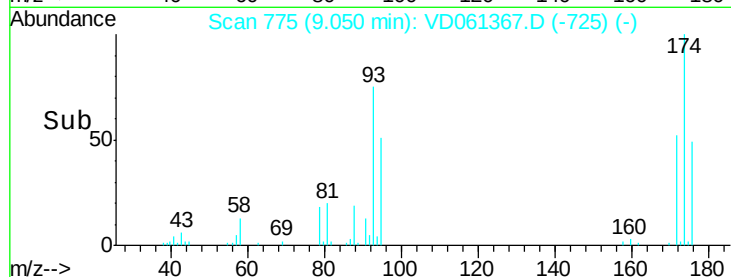
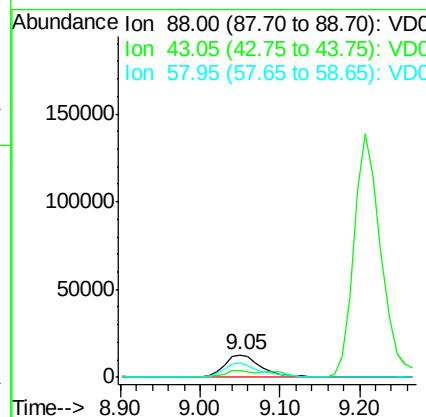
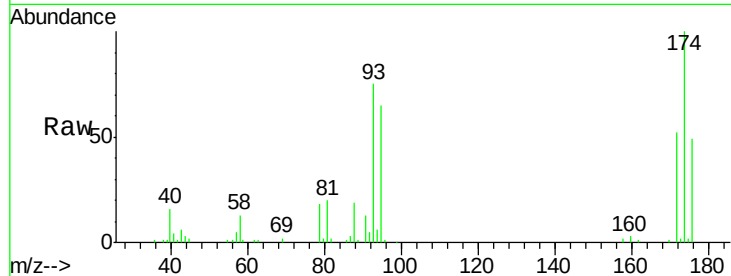
#49
 1,4-Dioxane
 Concen: 1137.664 ug/l
 RT: 9.05 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	41101		
43	29.4	23.3	34.9	
58	65.7	50.8	76.2	

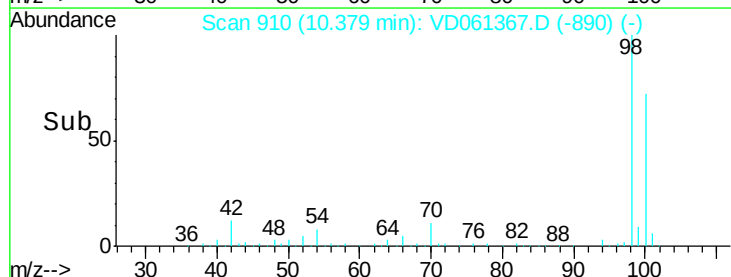
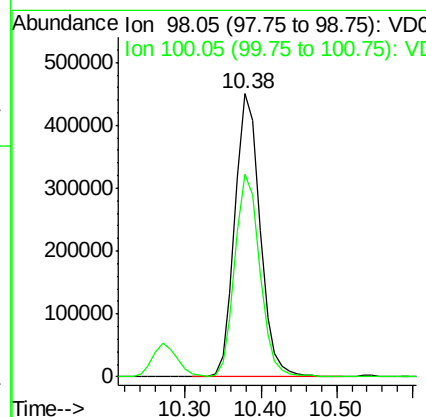
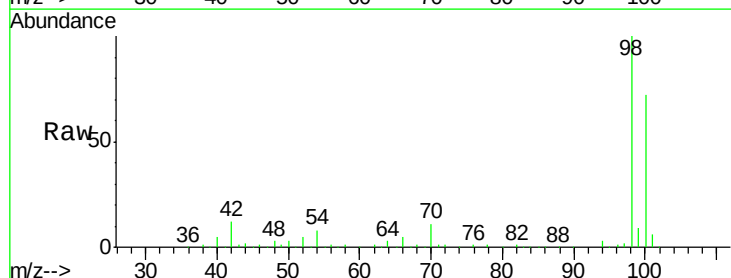
Manual Integrations
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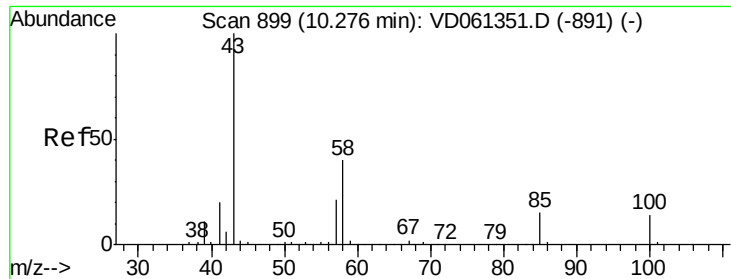
MMDadoda
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#50
 Toluene-d8
 Concen: 1137.664 ug/l
 RT: 10.38 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	1035442		
100	71.8	56.2	84.2	





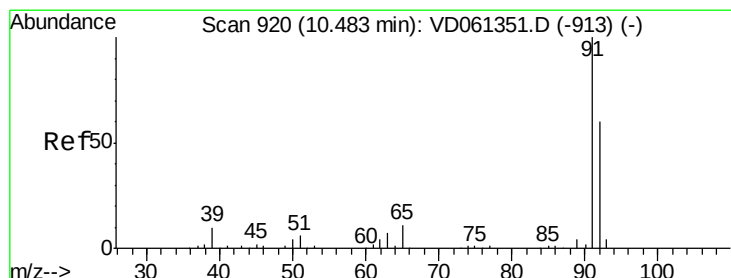
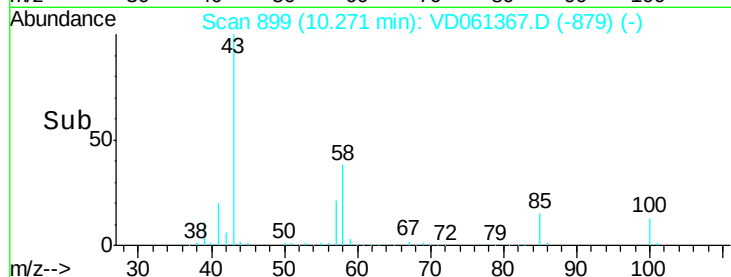
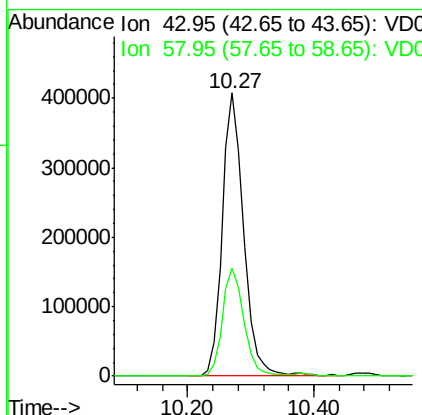
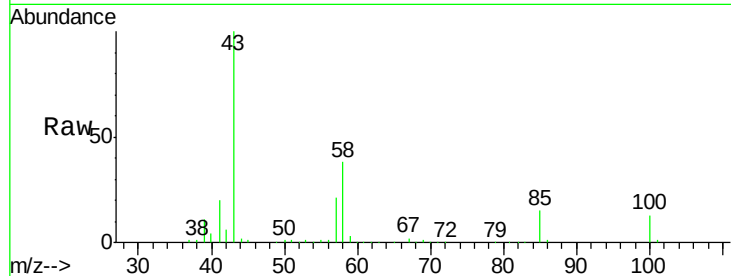
#51
4-Methyl-2-Pentanone
Concen: 266.305 ug/l
RT: 10.27 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 961565
Ion Ratio Lower Upper
43 100
58 38.0 31.8 47.8

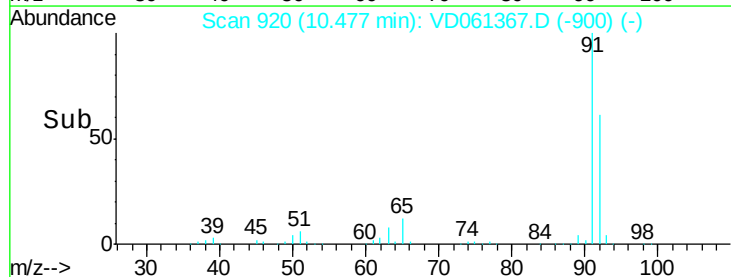
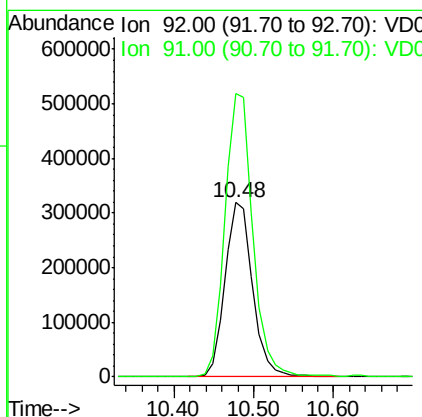
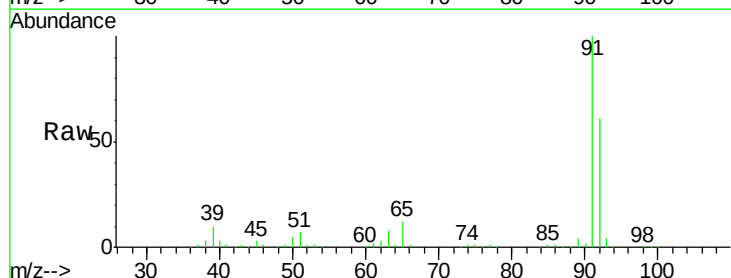
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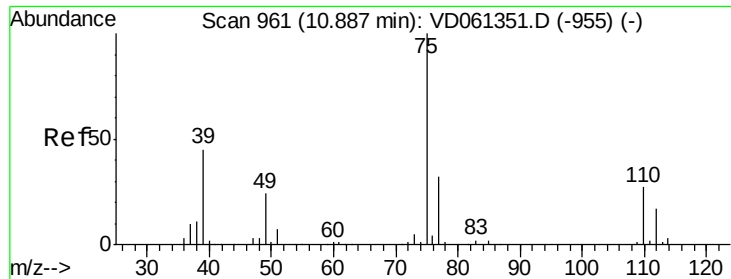
MMDadoda
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#52
Toluene
Concen: 53.203 ug/l
RT: 10.48 min Scan# 920
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 92 Resp: 776938
Ion Ratio Lower Upper
92 100
91 162.7 133.3 199.9





#53

t-1,3-Dichloropropene

Concen: 57.206 ug/l

RT: 10.88 min Scan# 961

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 476579

Ion Ratio Lower Upper

75 100

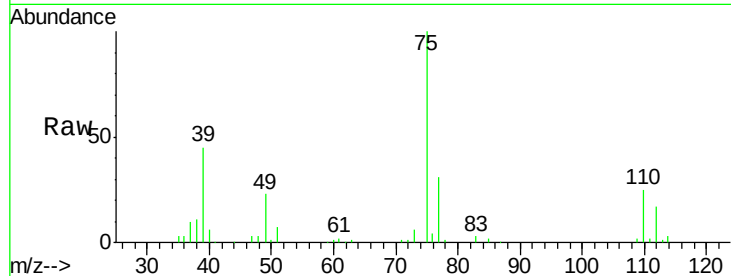
77 31.3 25.4 38.2

Manual Integrations

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.88

250000

200000

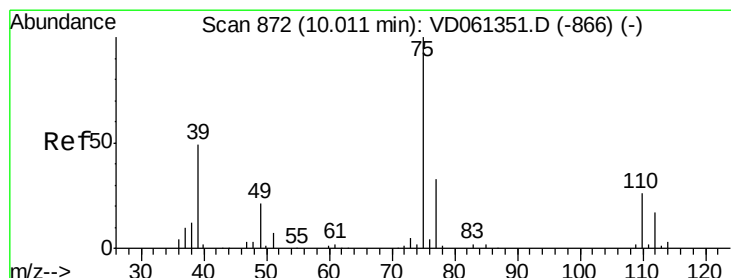
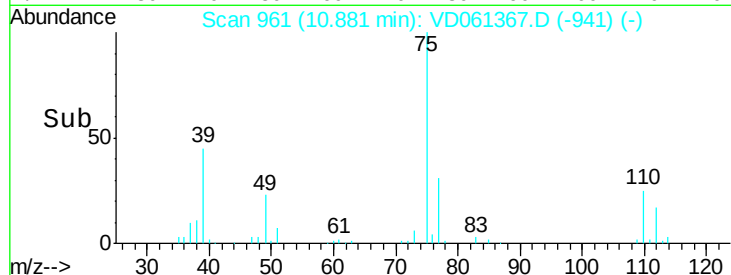
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 57.499 ug/l

RT: 10.01 min Scan# 873

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

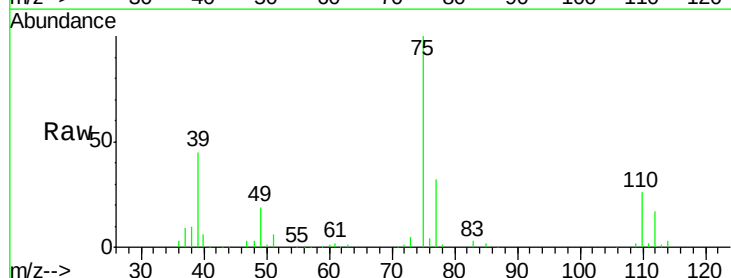
Tgt Ion: 75 Resp: 583282

Ion Ratio Lower Upper

75 100

77 31.5 26.2 39.4

39 45.0 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

10.01

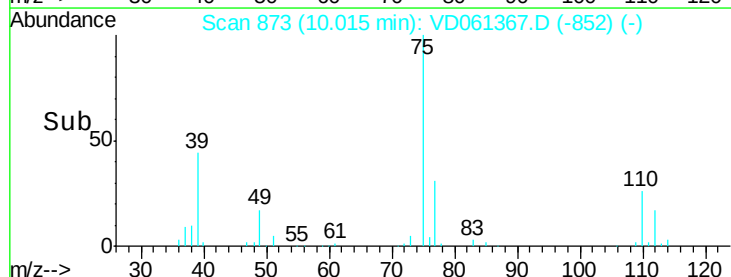
300000

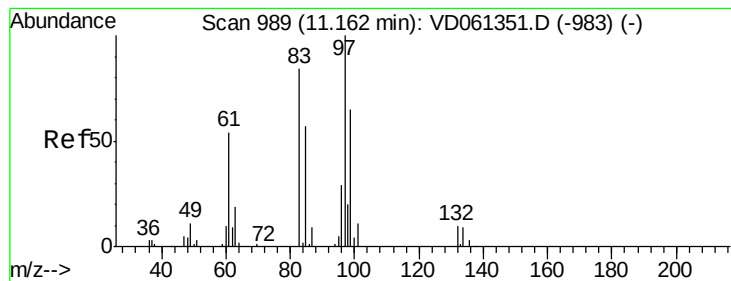
200000

100000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 50.856 ug/l

RT: 11.17 min Scan# 990

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

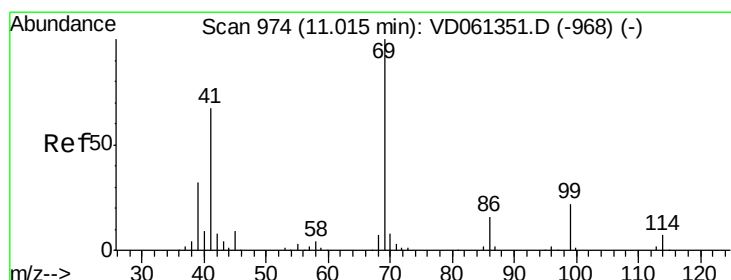
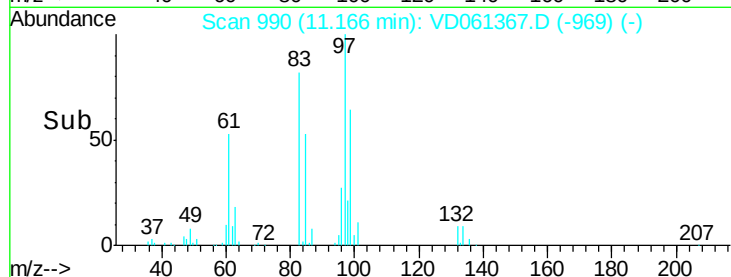
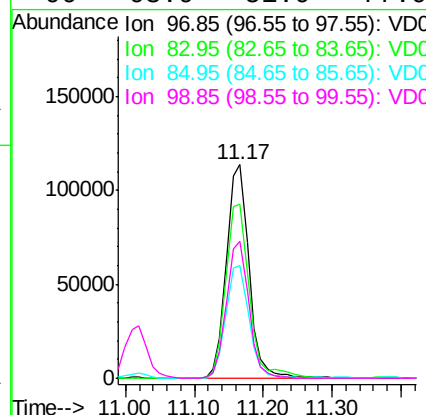
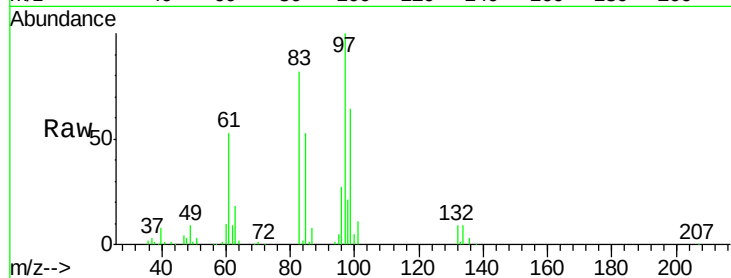
ClientSampleId :

VSTDCCC050

Tgt Ion:	97	Resp:	259725
Ion	Ratio	Lower	Upper
97	100		
83	81.7	67.0	100.6
85	52.9	45.4	68.2
99	63.9	51.9	77.9

Manual Integrations
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#56

Ethyl methacrylate

Concen: 49.404 ug/l

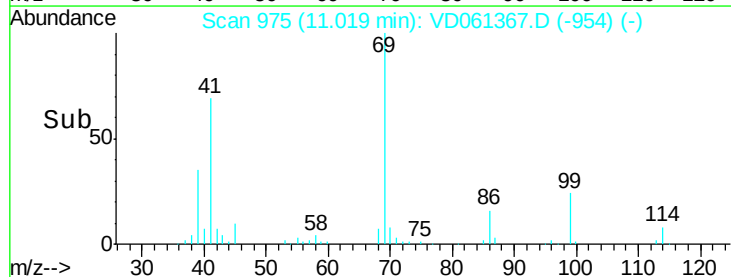
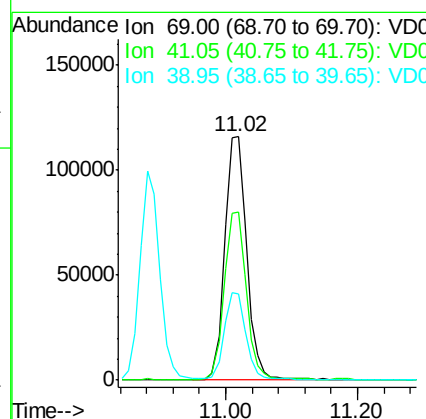
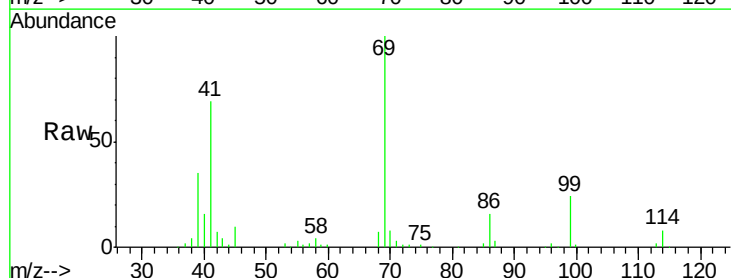
RT: 11.02 min Scan# 975

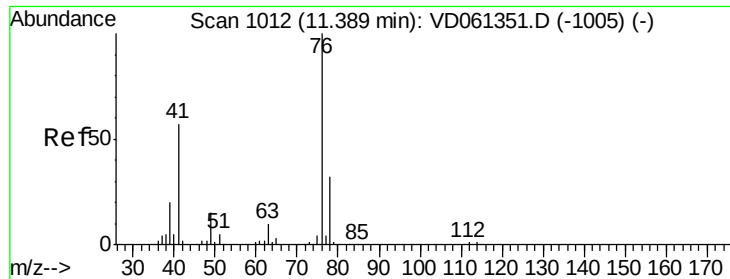
Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion:	69	Resp:	271051
Ion	Ratio	Lower	Upper
69	100		
41	69.0	53.8	80.6
39	35.4	26.4	39.6





#57

1,3-Dichloropropane

Concen: 56.563 ug/l

RT: 11.38 min Scan# 1012

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 424588

Ion Ratio Lower Upper

76 100

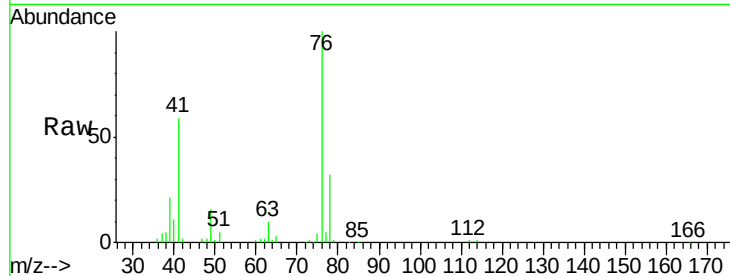
78 31.8 25.4 38.0

Manual Integrations

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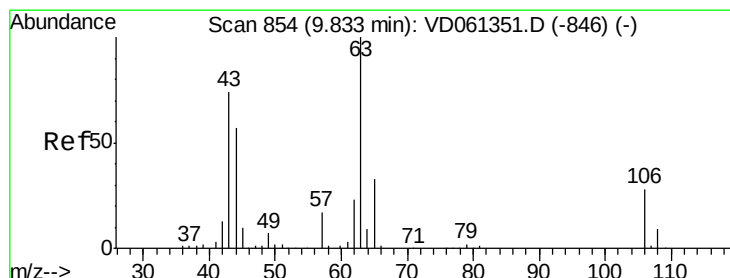
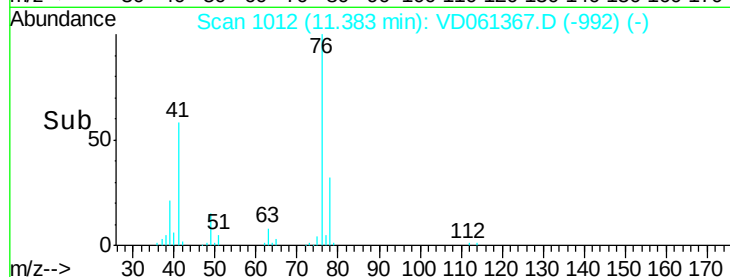
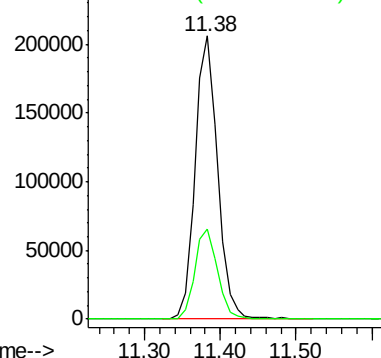
MMDadoda

3/29/2019 2:00:52 PM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 251.832 ug/l

RT: 9.83 min Scan# 854

Delta R.T. -0.01 min

Lab File: VD061367.D

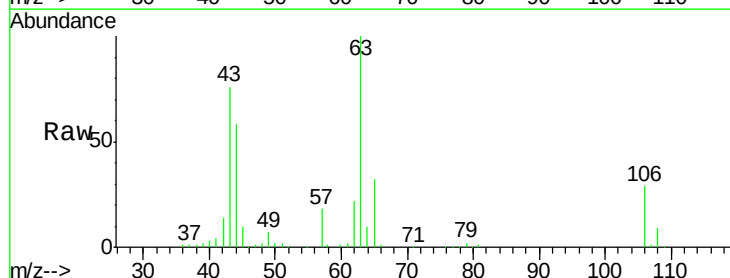
Acq: 27 Mar 2019 23:28

Tgt Ion: 63 Resp: 672859

Ion Ratio Lower Upper

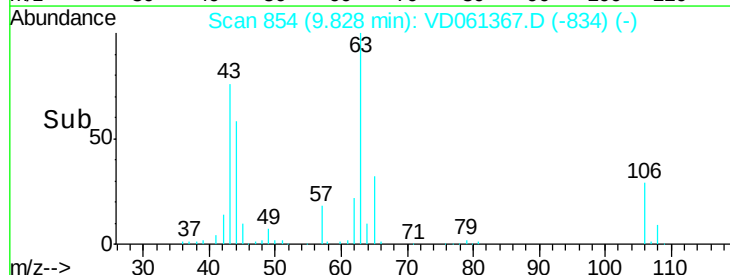
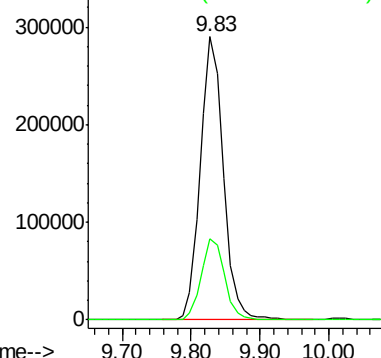
63 100

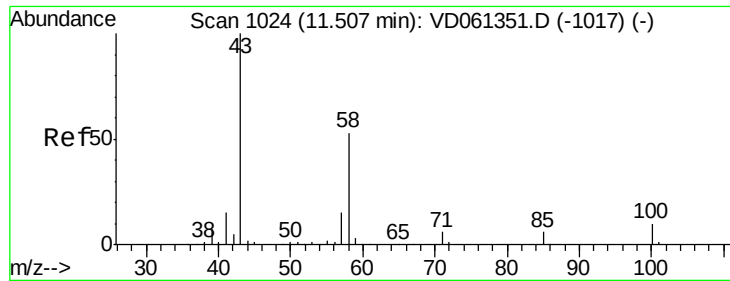
106 28.8 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





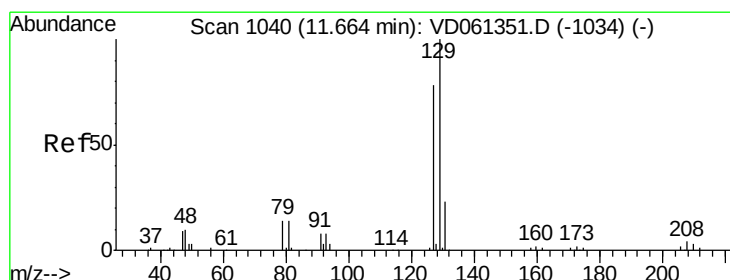
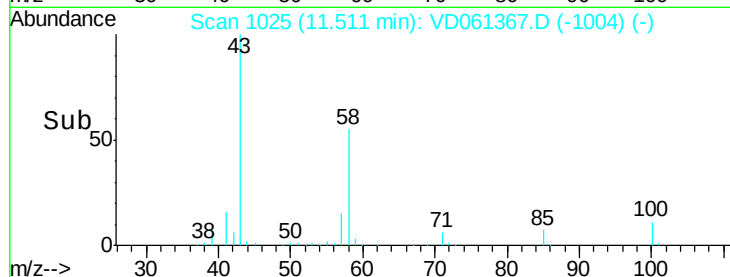
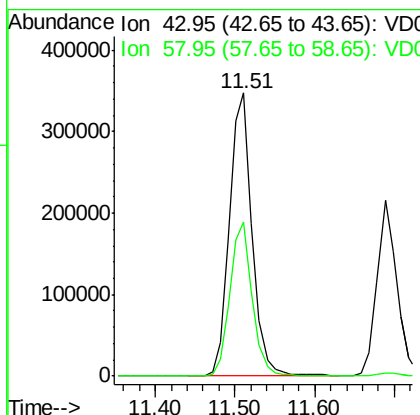
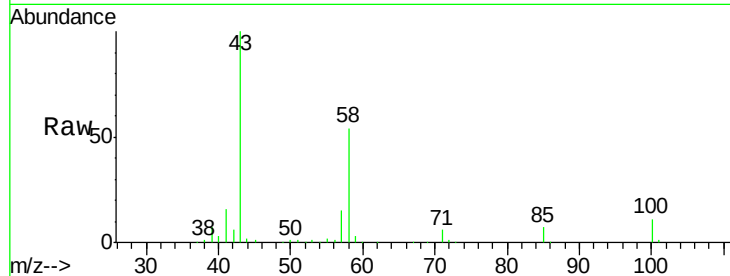
#59
2-Hexanone
Concen: 265.341 ug/l
RT: 11.51 min Scan# 1025
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 694161
Ion Ratio Lower Upper
43 100
58 54.5 26.3 78.9

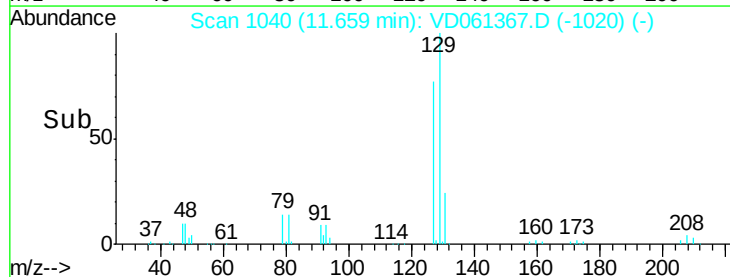
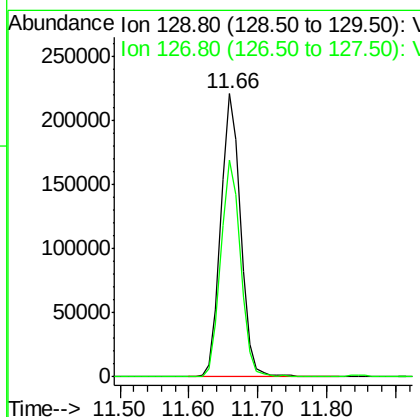
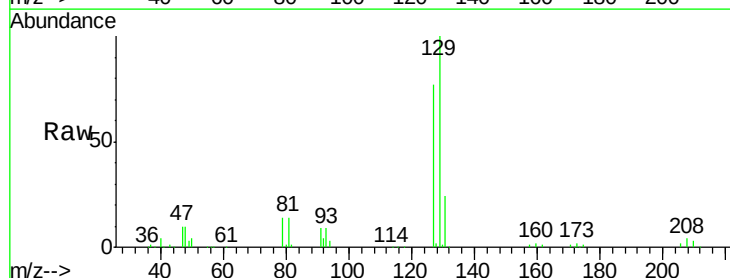
Manual Integrations
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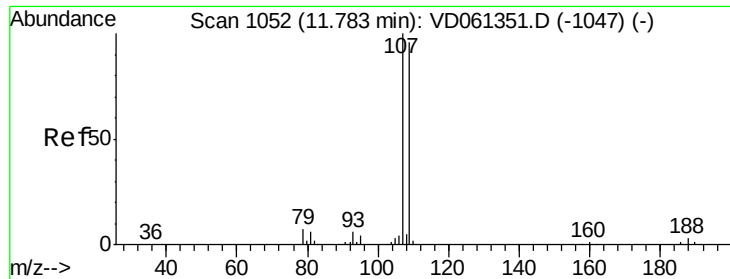
MMDadoda
3/29/2019 2:00:52 PM



#60
Dibromochloromethane
Concen: 56.171 ug/l
RT: 11.66 min Scan# 1040
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 129 Resp: 442246
Ion Ratio Lower Upper
129 100
127 76.8 39.0 116.9





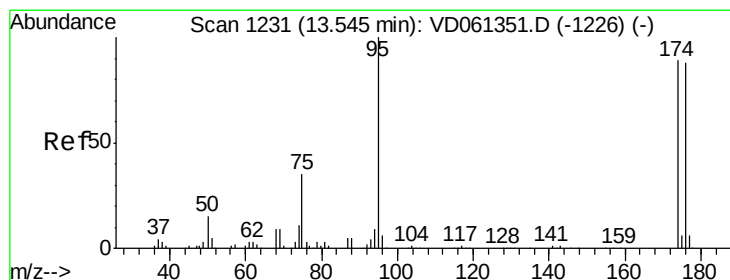
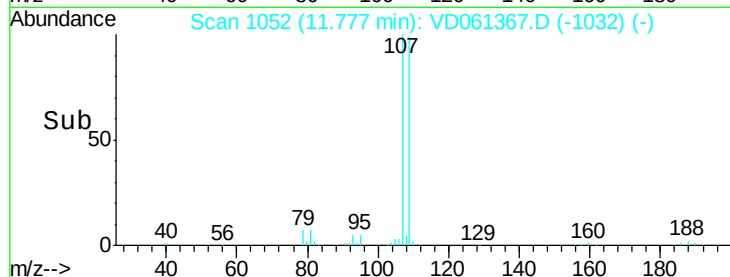
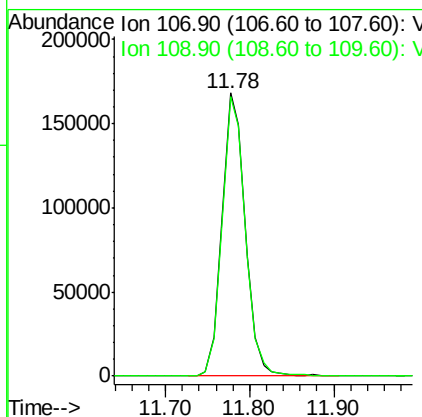
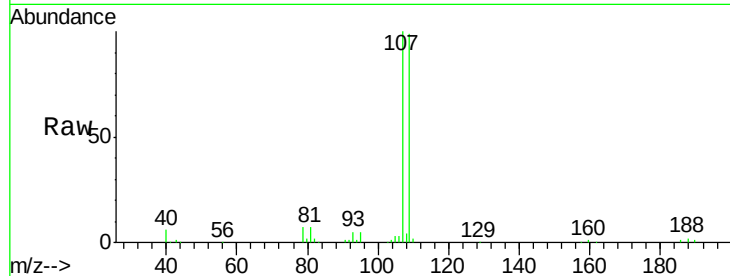
#61
 1,2-Dibromoethane
 Concen: 54.351 ug/l
 RT: 11.78 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 107 Resp: 321417
 Ion Ratio Lower Upper
 107 100
 109 98.9 76.6 114.8

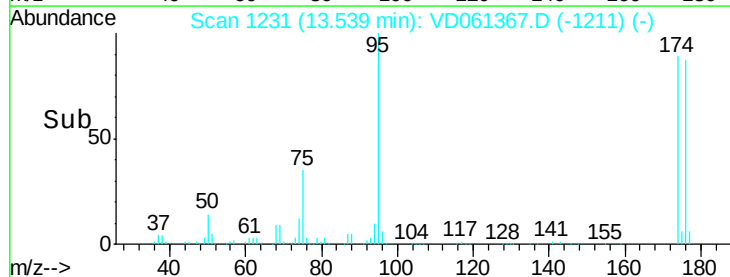
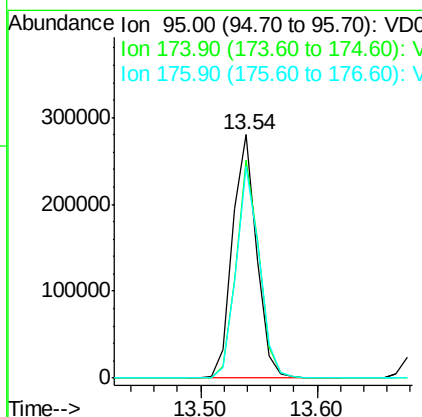
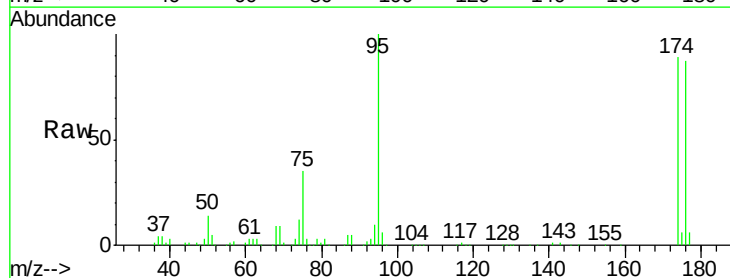
Manual Integrations
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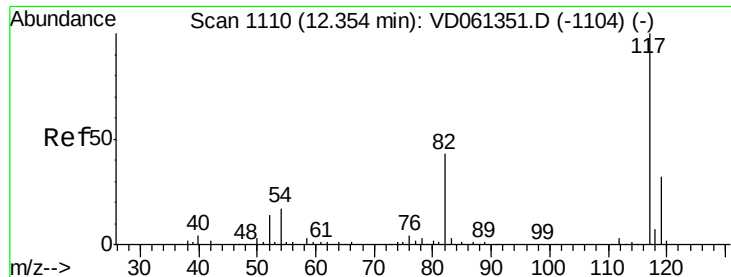
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 54.351 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion: 95 Resp: 401405
 Ion Ratio Lower Upper
 95 100
 174 89.4 0.0 178.0
 176 86.8 0.0 175.0





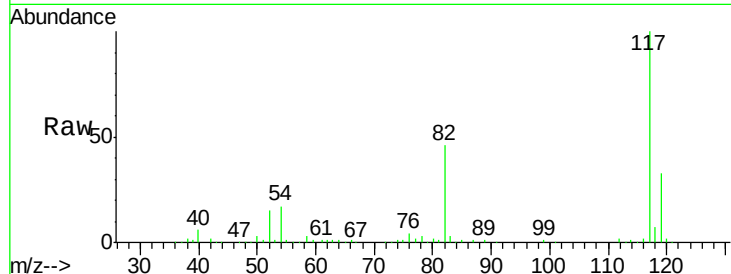
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

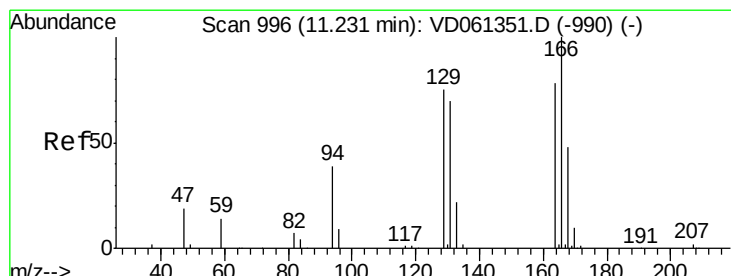
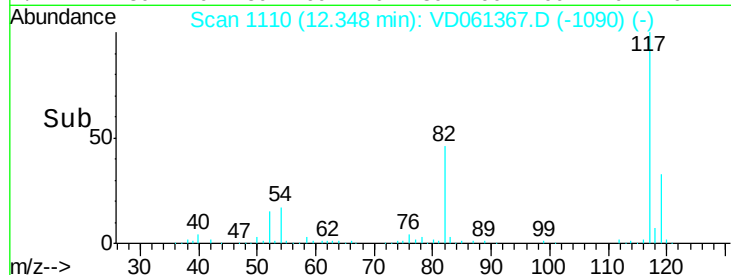
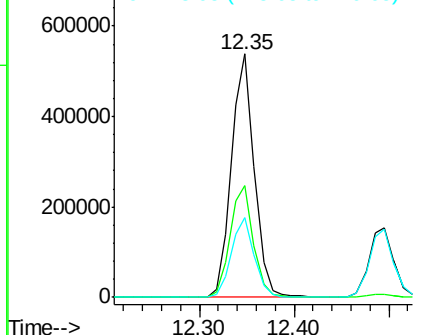
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	902907		
82	46.2	34.4	51.6	
119	33.0	25.8	38.6	

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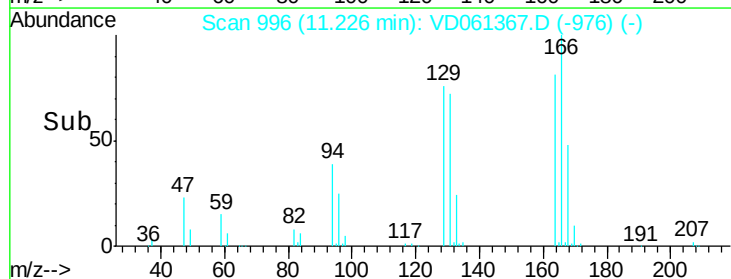
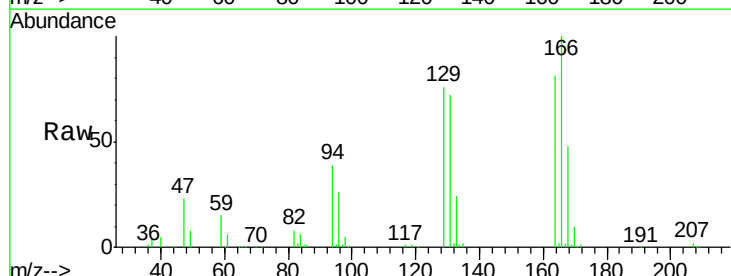
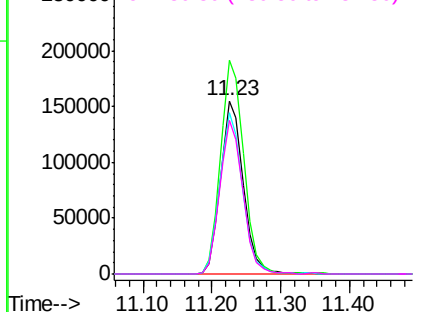
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

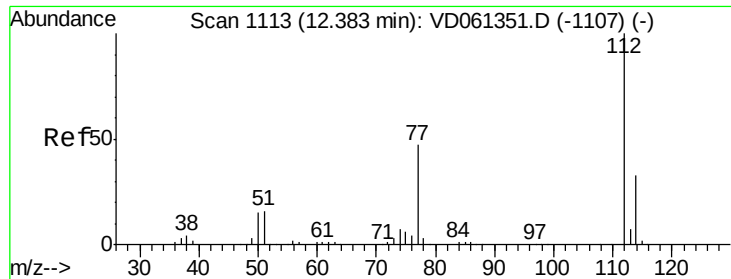


#64
Tetrachloroethene
Concen: 50.068 ug/l
RT: 11.23 min Scan# 996
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	354791		
166	123.2	102.4	153.6	
129	93.3	76.8	115.2	
131	88.6	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





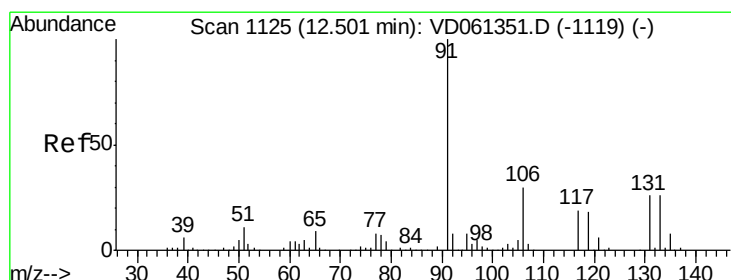
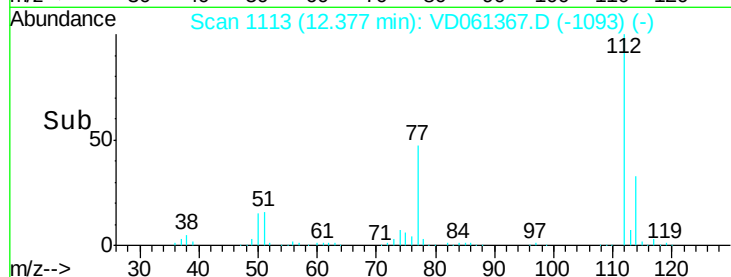
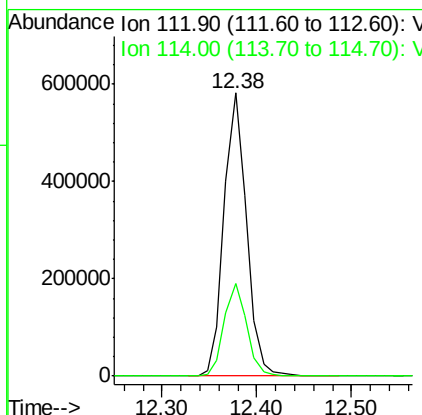
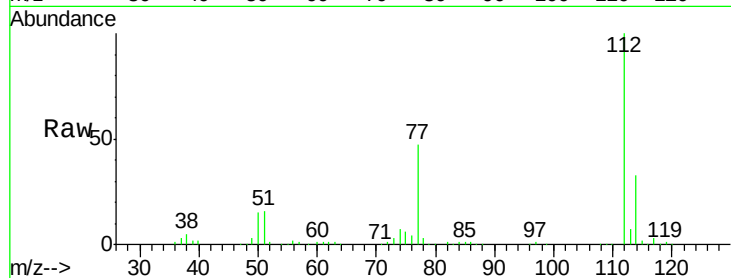
#65
Chlorobenzene
Concen: 52.076 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 960920
Ion Ratio Lower Upper
112 100
114 32.7 26.6 39.8

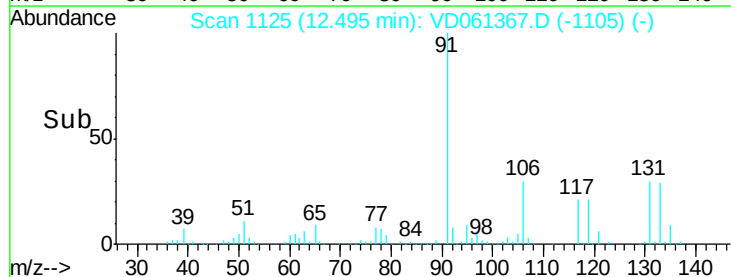
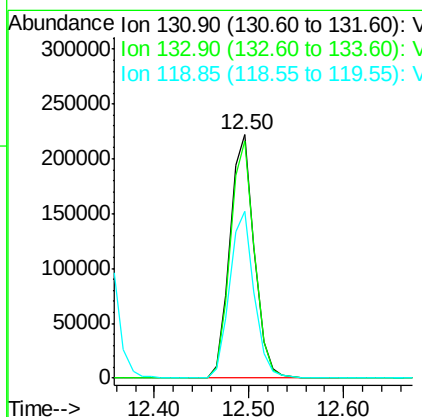
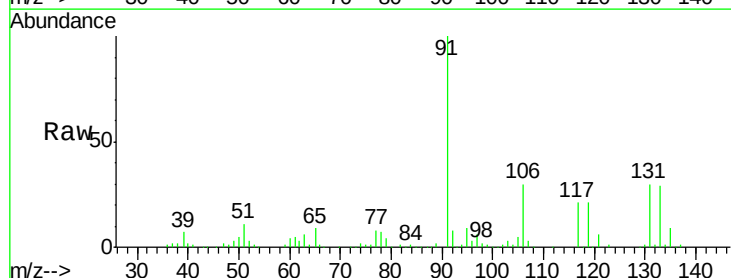
Manual Integrations
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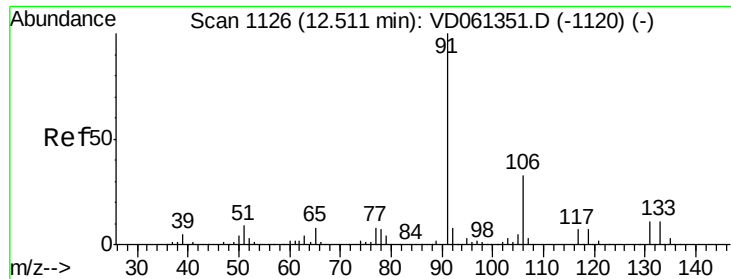
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 55.329 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion:131 Resp: 395299
Ion Ratio Lower Upper
131 100
133 97.2 49.4 148.2
119 68.4 34.1 102.2





#67

Ethyl Benzene

Concen: 54.665 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 1539647

Ion Ratio Lower Upper

91 100

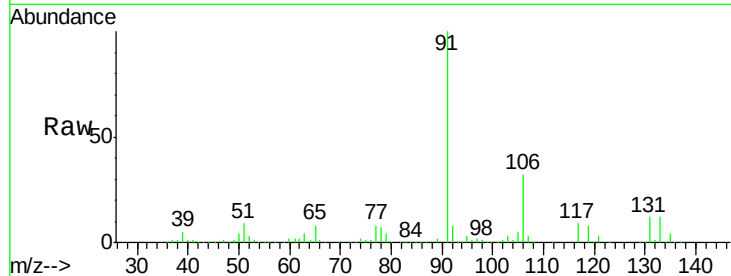
106 31.8 26.1 39.1

Manual Integrations

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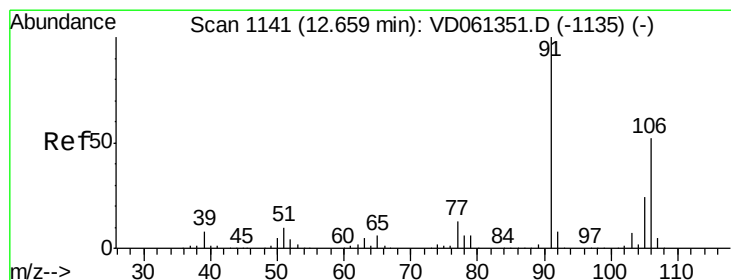
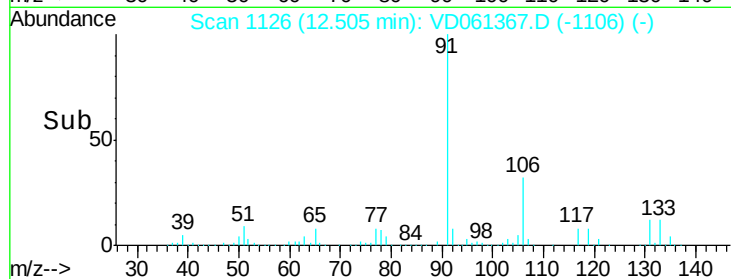
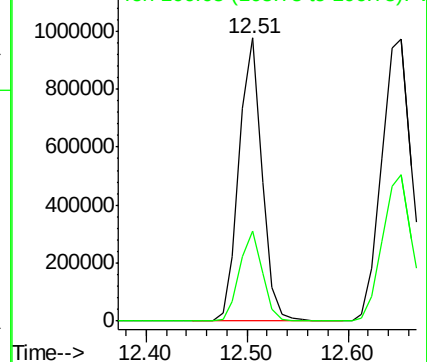
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 96.537 ug/l

RT: 12.65 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VD061367.D

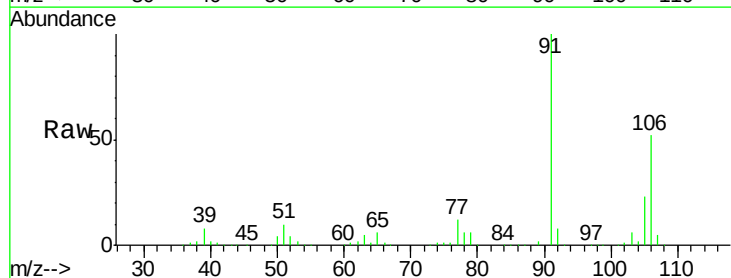
Acq: 27 Mar 2019 23:28

Tgt Ion:106 Resp: 1029962

Ion Ratio Lower Upper

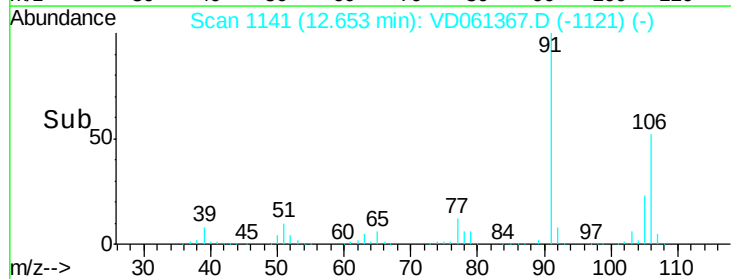
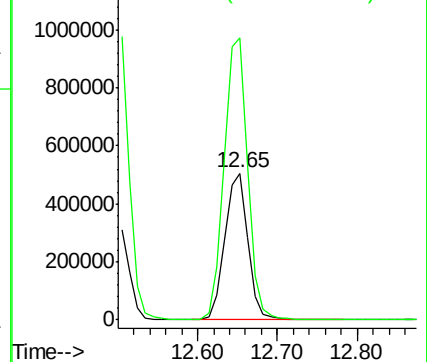
106 100

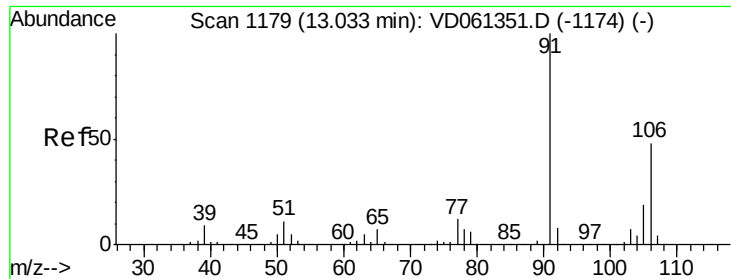
91 192.2 153.1 229.7



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V





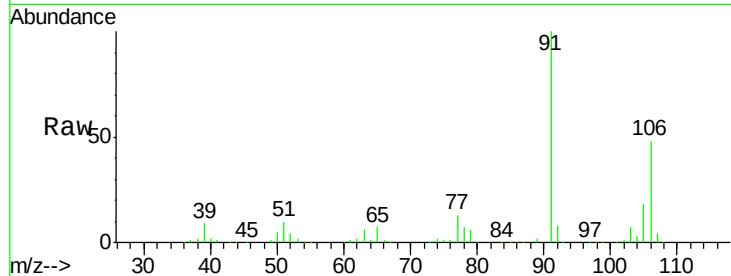
#69
o-Xylene
Concen: 50.746 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

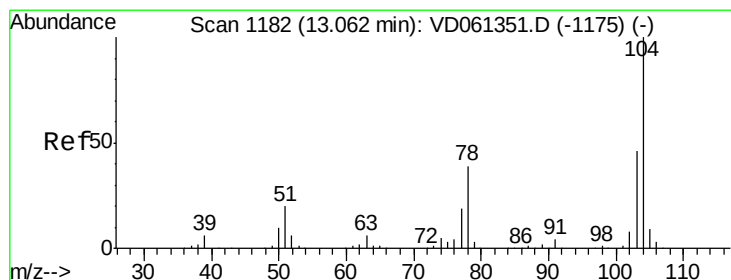
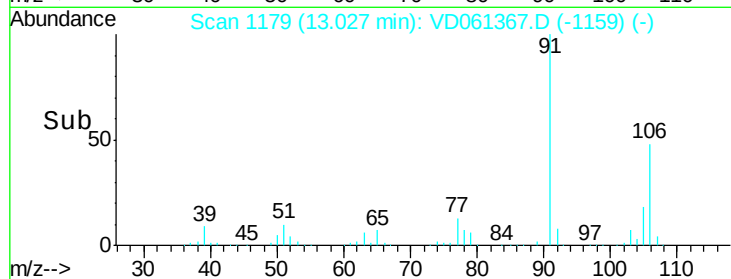
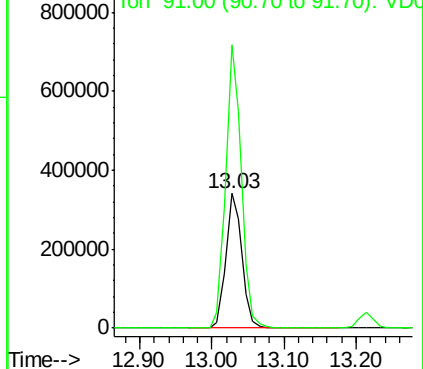
Tgt Ion:106 Resp: 525399
Ion Ratio Lower Upper
106 100
91 210.1 103.8 311.3

Manual Integrations
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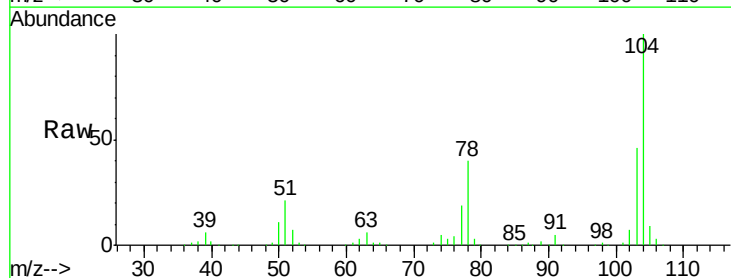


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

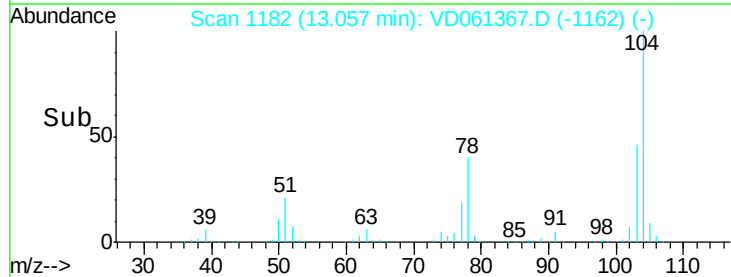
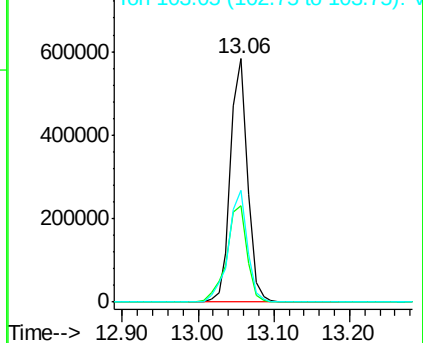


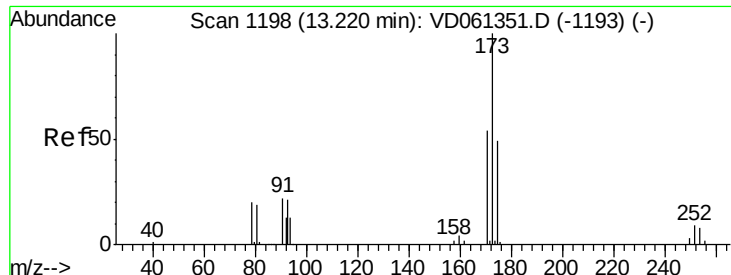
#70
Styrene
Concen: 50.018 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion:104 Resp: 902727
Ion Ratio Lower Upper
104 100
78 39.8 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





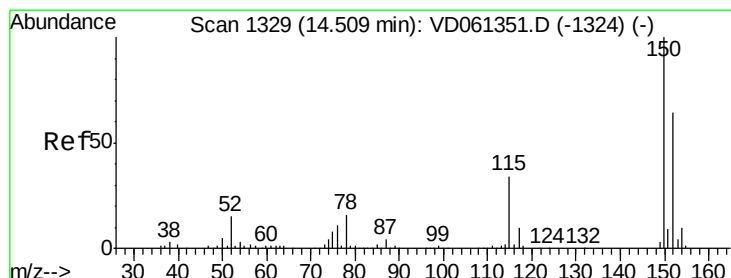
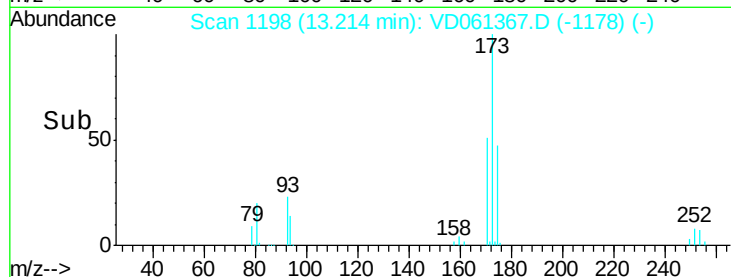
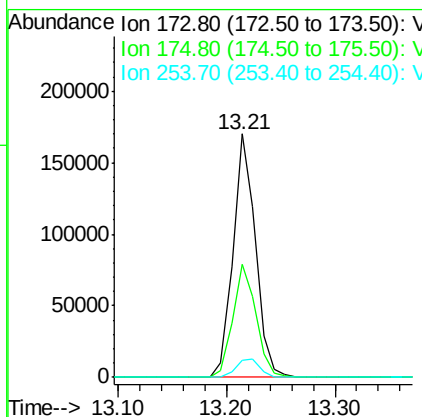
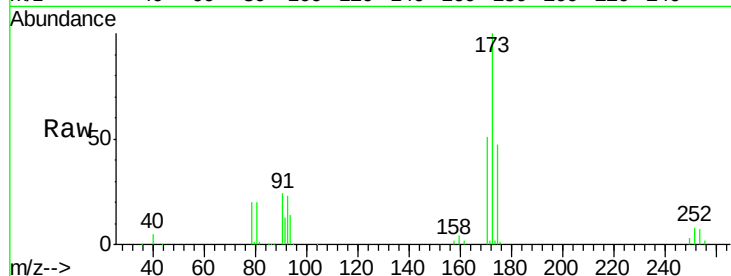
#71
Bromoform
Concen: 54.270 ug/l
RT: 13.21 min Scan# 1198
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 245791
Ion Ratio Lower Upper
173 100
175 46.6 24.6 73.8
254 7.1 6.6 10.0

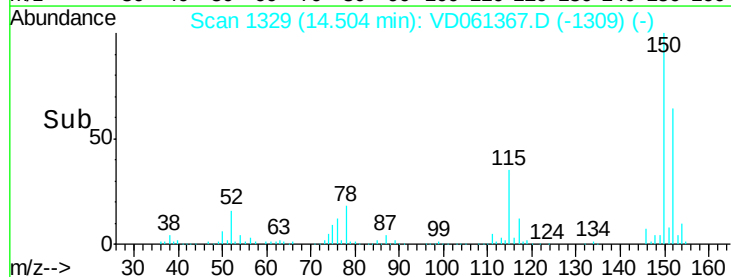
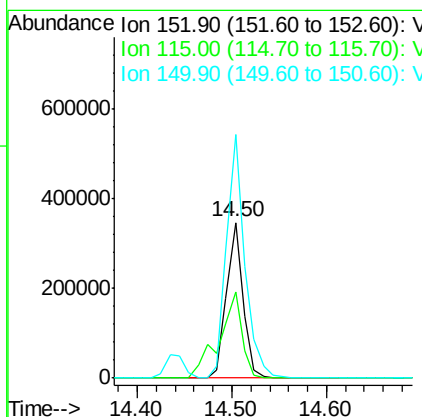
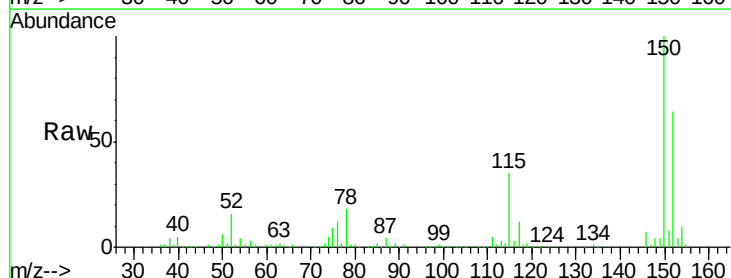
Manual Integrations
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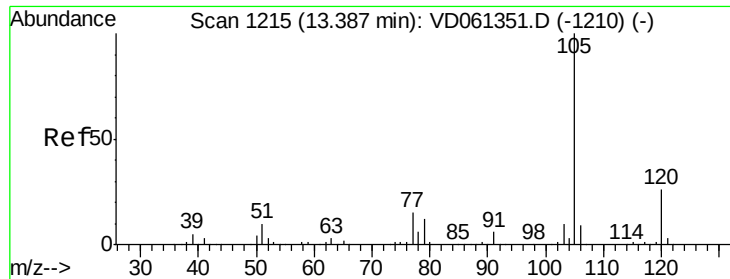
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion:152 Resp: 415839
Ion Ratio Lower Upper
152 100
115 55.0 26.9 80.6
150 156.4 0.0 318.0





#73

Isopropylbenzene

Concen: 45.117 ug/l

RT: 13.38 min Scan# 1215

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 1305772

Ion Ratio Lower Upper

105 100

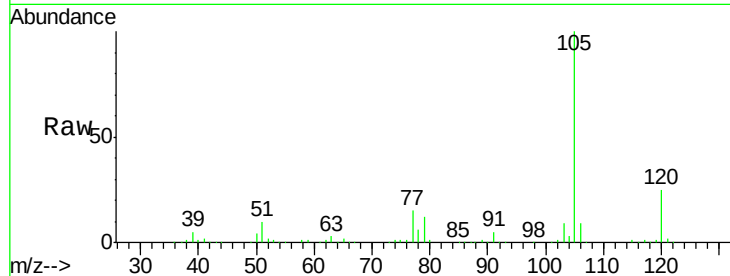
120 24.9 12.8 38.3

Manual Integrations

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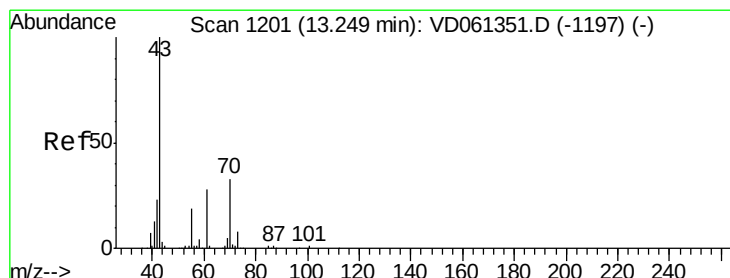
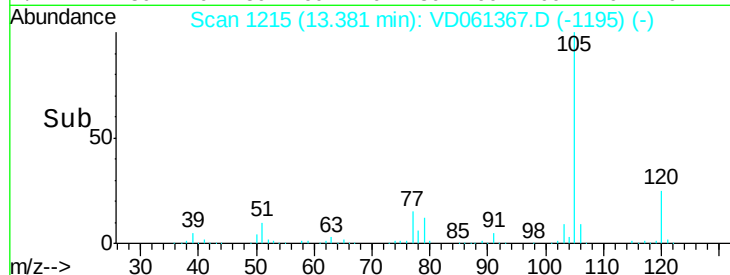
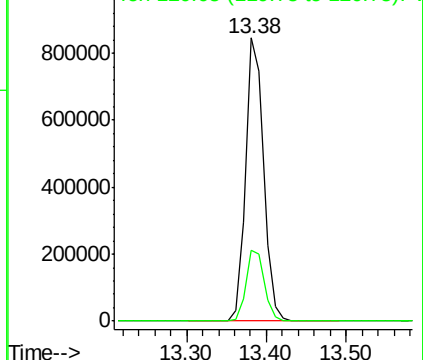
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 48.034 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Tgt Ion: 43 Resp: 387271

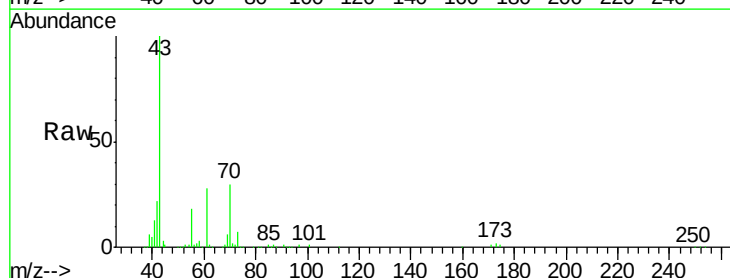
Ion Ratio Lower Upper

43 100

70 30.2 26.6 40.0

55 18.4 15.4 23.2

61 27.7 22.2 33.4

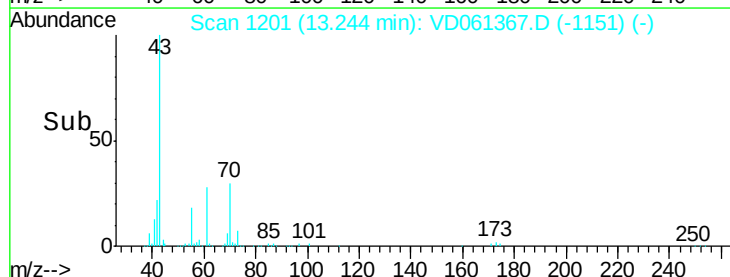
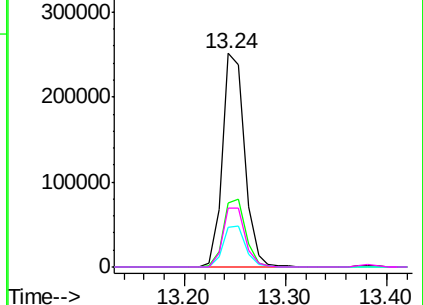


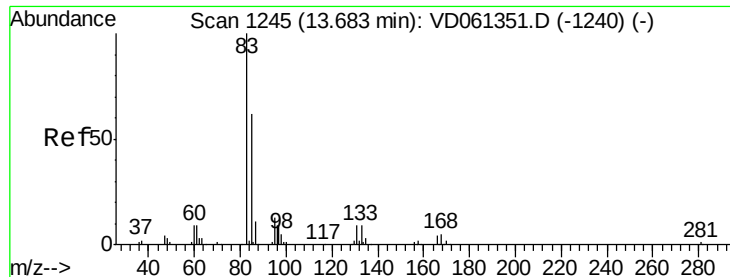
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 50.830 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. 0.00 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 310336
Ion Ratio Lower Upper

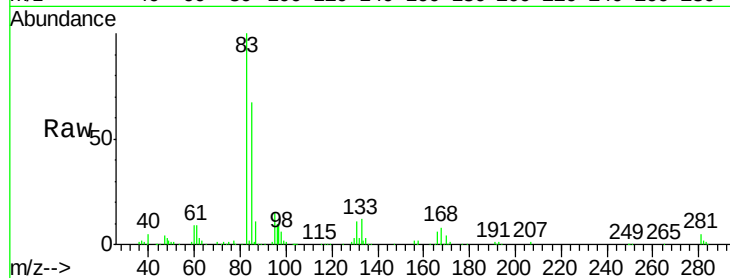
83 100

131 11.2 4.3 13.1

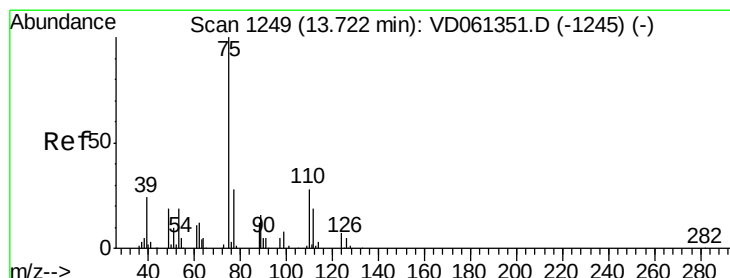
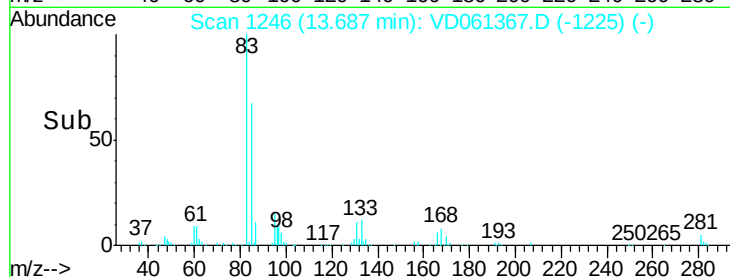
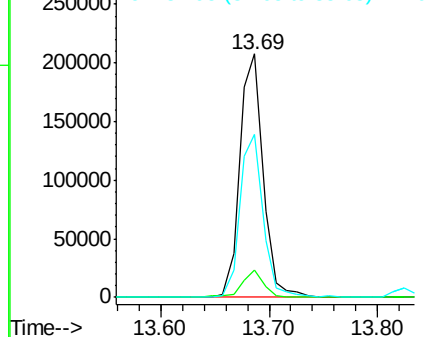
85 67.0 31.2 93.6

Manual Integrations
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3/29/2019 2:00:52 PM



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: 49.583 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.01 min

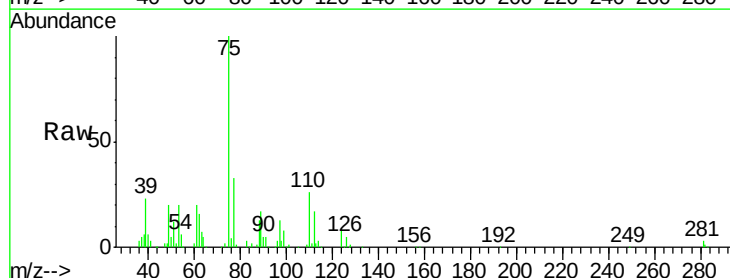
Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

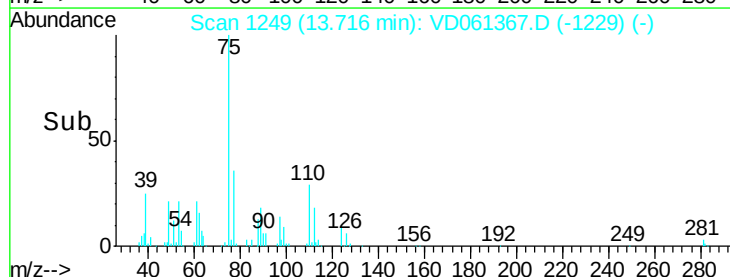
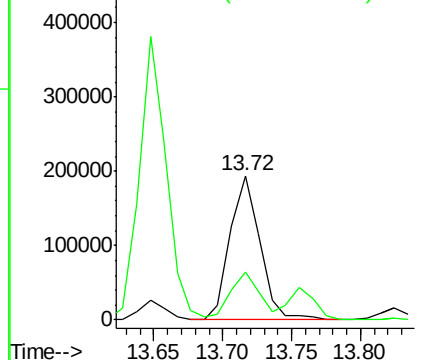
Tgt Ion: 75 Resp: 297840
Ion Ratio Lower Upper

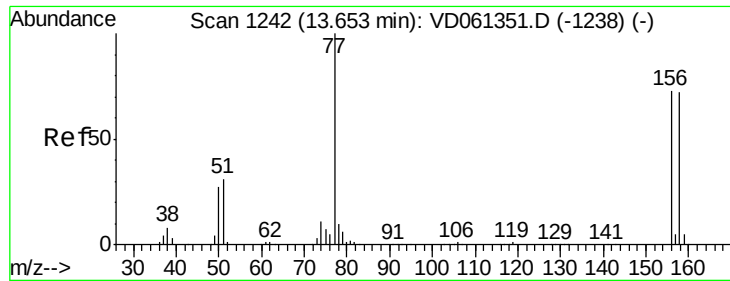
75 100

77 33.3 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: 49.022 ug/l

RT: 13.65 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

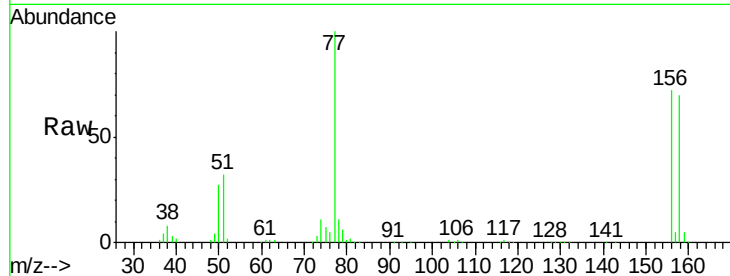
ClientSampleId :

VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
156	100		
77	138.0	68.5	205.6
158	97.2	49.1	147.3

Manual Integrations
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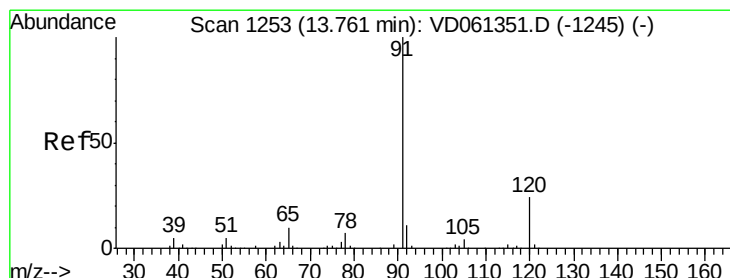
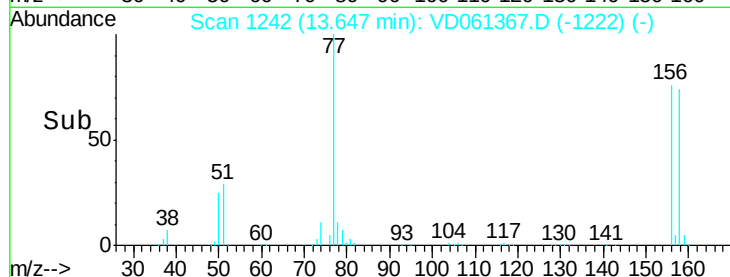
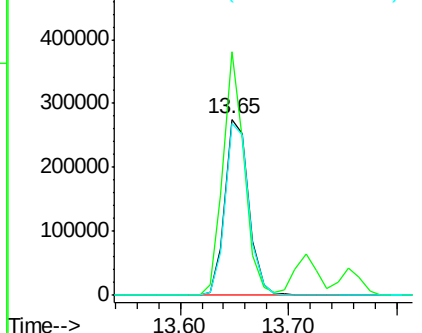
MMDadoda
3/29/2019 2:00:52 PM



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: 46.631 ug/l

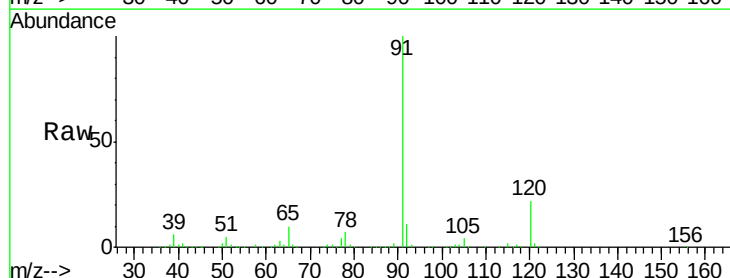
RT: 13.76 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VD061367.D

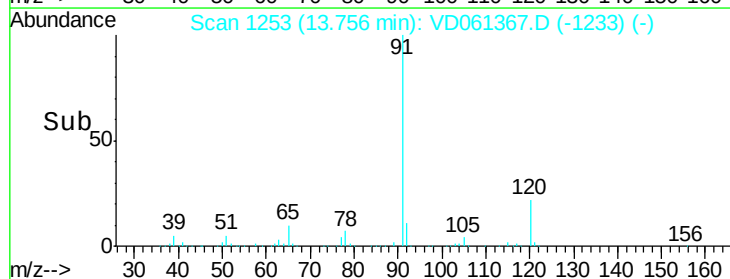
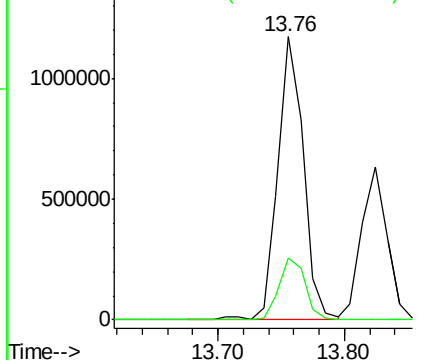
Acq: 27 Mar 2019 23:28

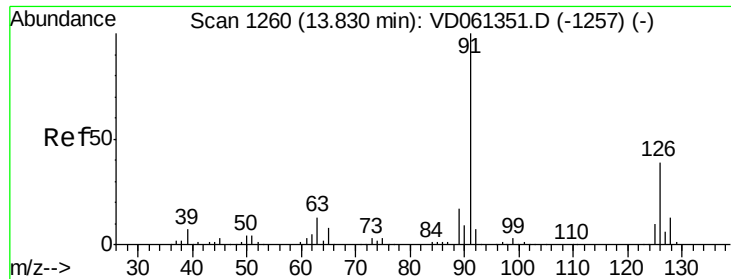
Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.8	35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 46.223 ug/l

RT: 13.82 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD061367.D

Acq: 27 Mar 2019 23:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 888918

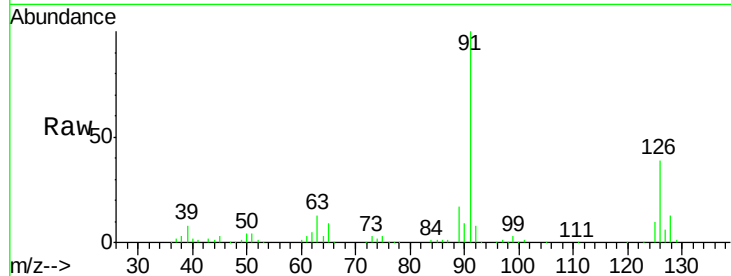
Ion Ratio Lower Upper

91 100

126 38.7 19.4 58.2

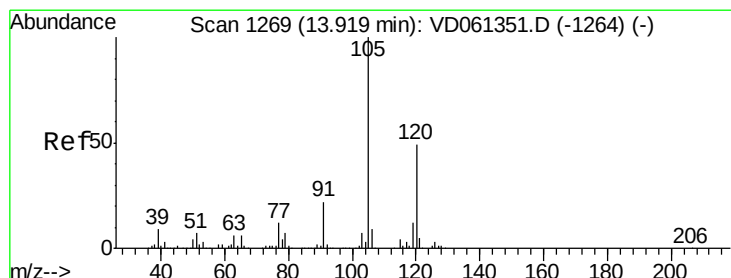
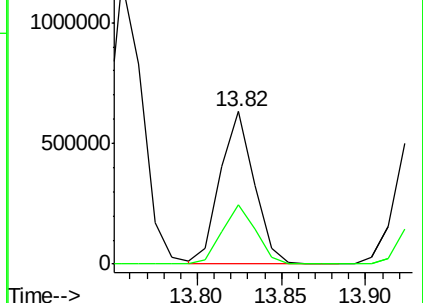
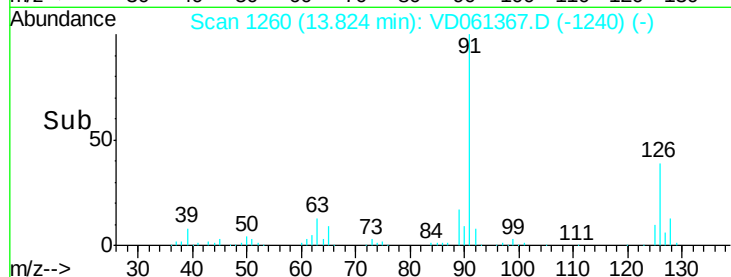
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VD061351.D (-1257) (-)

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



#80

1,3,5-Trimethylbenzene

Concen: 48.119 ug/l

RT: 13.91 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD061367.D

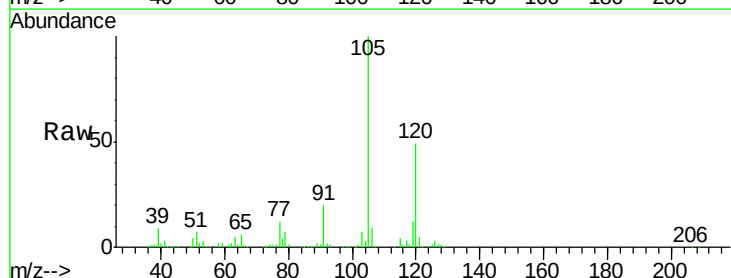
Acq: 27 Mar 2019 23:28

Tgt Ion: 105 Resp: 1080551

Ion Ratio Lower Upper

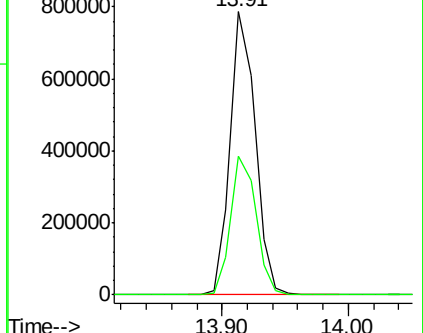
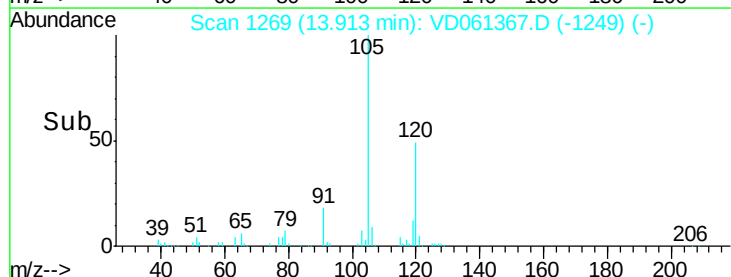
105 100

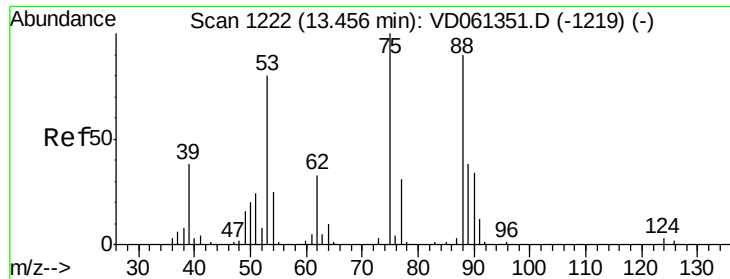
120 49.1 24.6 73.6



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

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





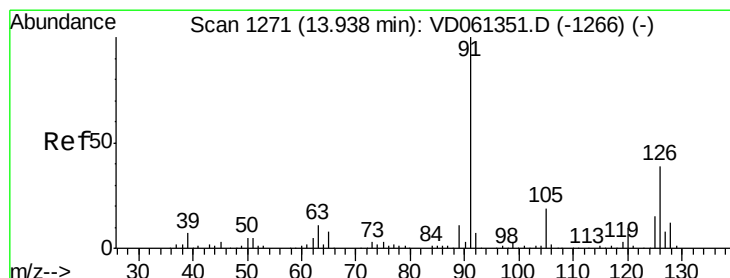
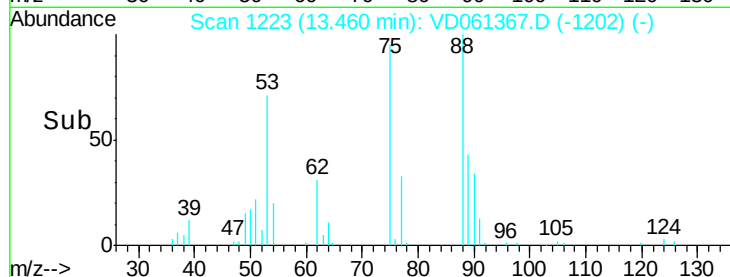
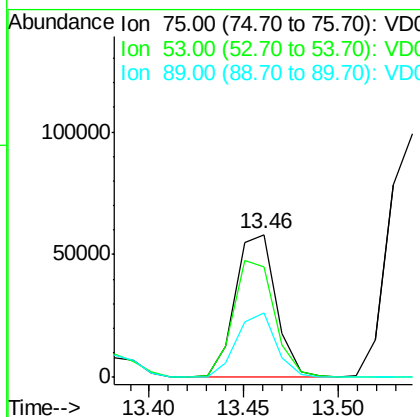
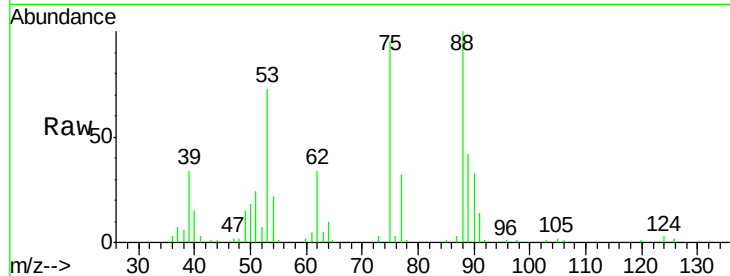
#81
trans-1,4-Dichloro-2-butene
Concen: 47.720 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	77.4	63.8	95.8
89	44.7	30.5	45.7

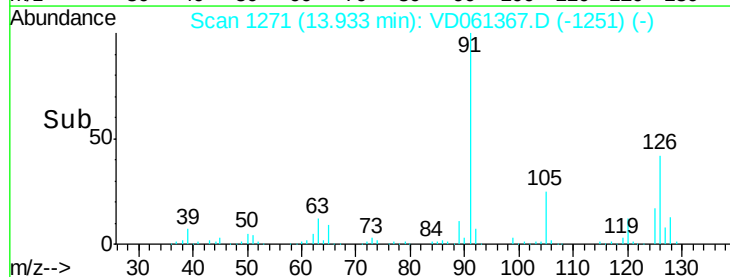
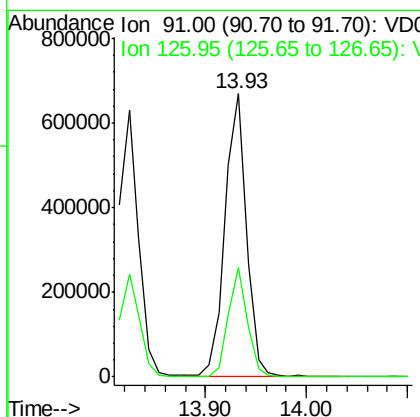
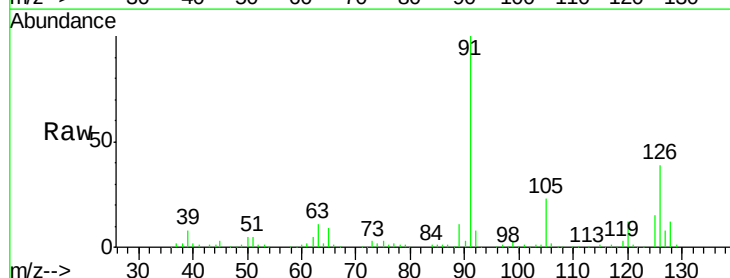
Manual Integrations
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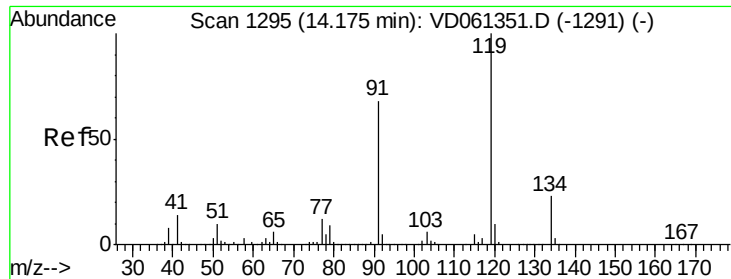
MMDadoda
3/29/2019 2:00:52 PM



#82
4-Chlorotoluene
Concen: 46.951 ug/l
RT: 13.93 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.7	19.6	58.8





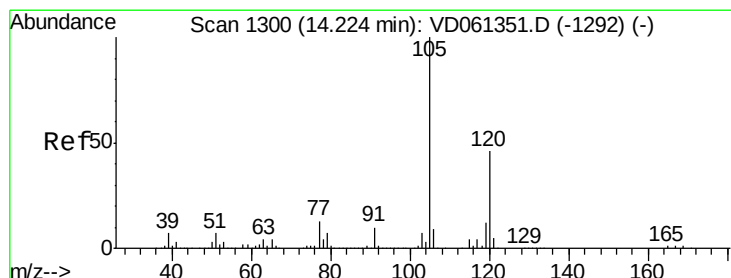
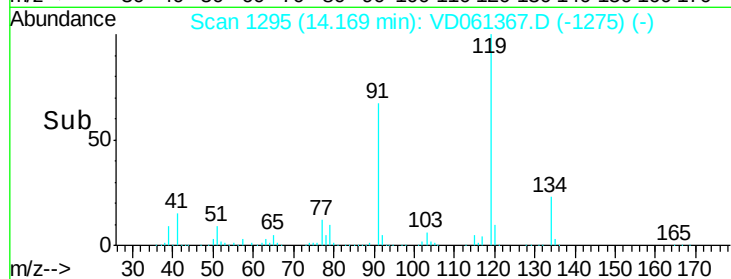
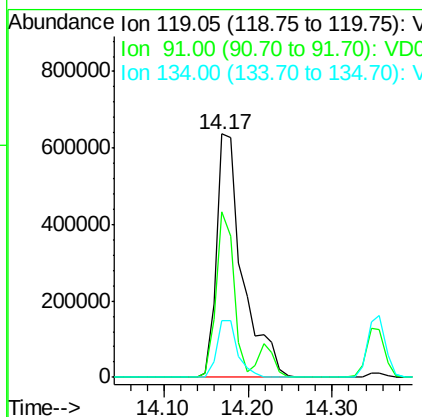
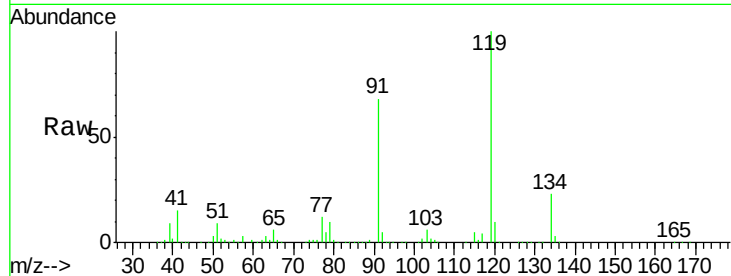
#83
 tert-Butylbenzene
 Concen: 48.903 ug/l
 RT: 14.17 min Scan# 1295
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion:119 Resp: 1372381
 Ion Ratio Lower Upper
 119 100
 91 68.0 34.1 102.3
 134 23.2 11.6 34.8

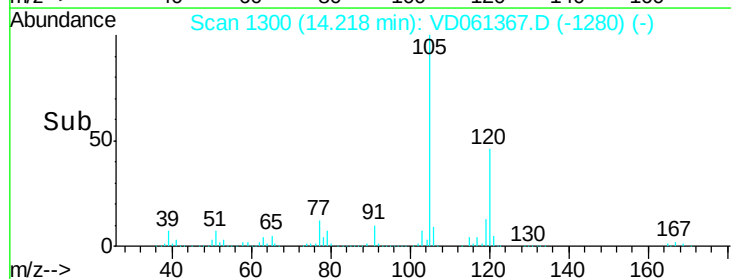
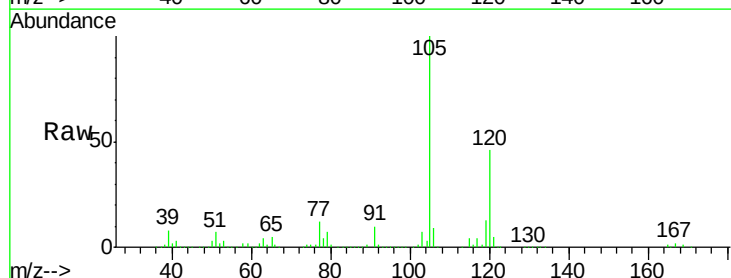
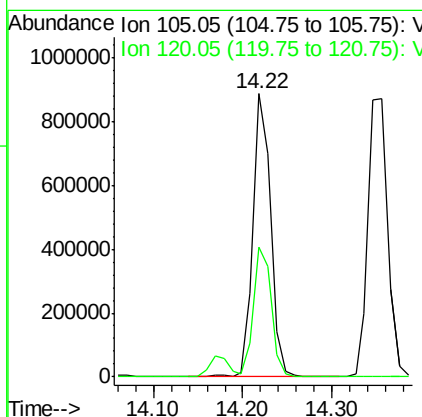
Manual Integrations
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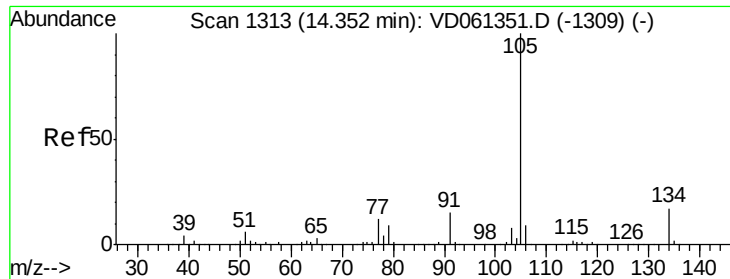
MMDadoda
 3/29/2019 2:00:52 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 49.506 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion:105 Resp: 1203537
 Ion Ratio Lower Upper
 105 100
 120 46.1 22.8 68.4





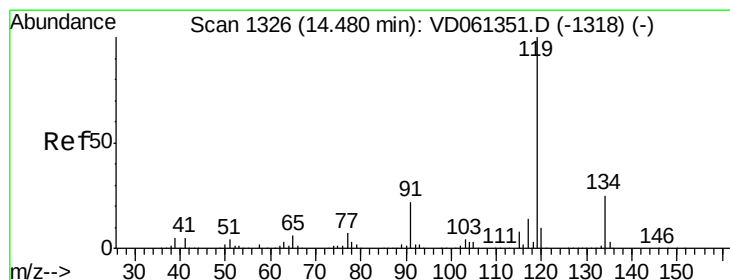
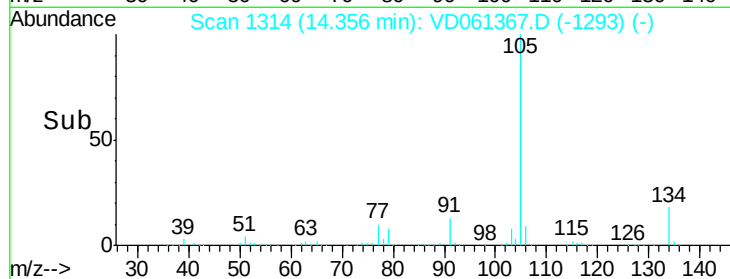
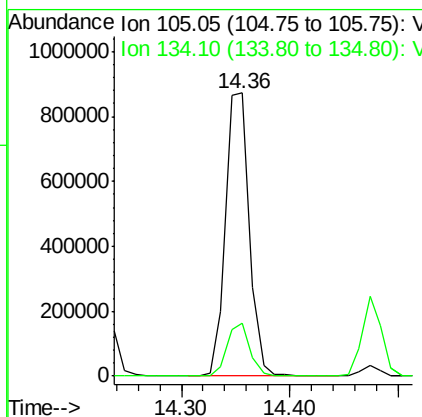
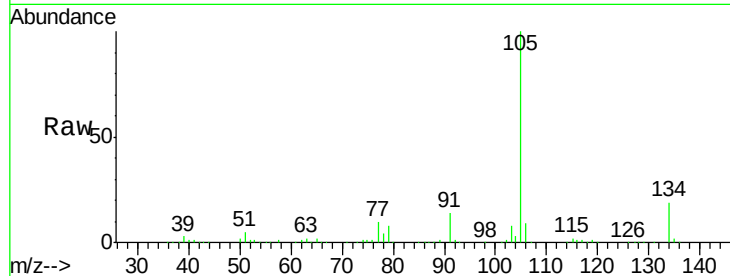
#85
 sec-Butylbenzene
 Concen: 44.862 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion:105 Resp: 1337480
 Ion Ratio Lower Upper
 105 100
 134 18.6 8.7 26.1

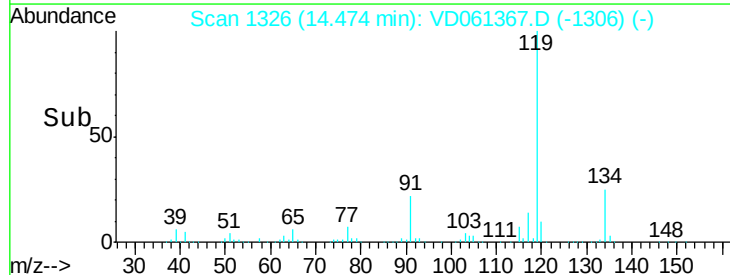
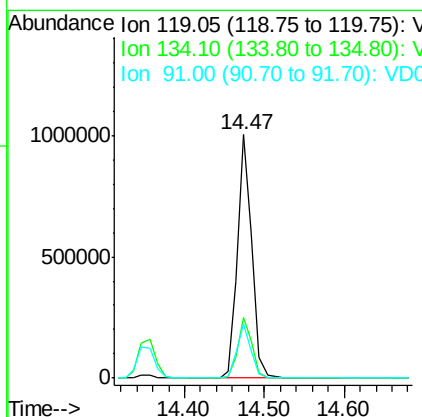
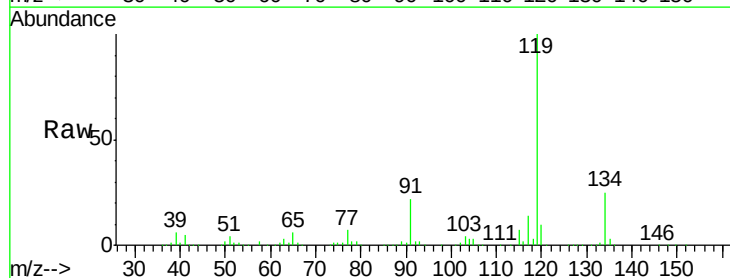
Manual Integrations
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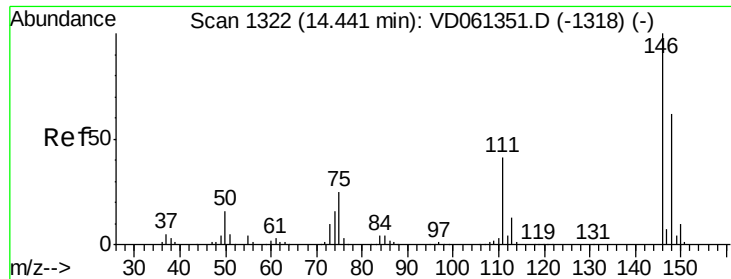
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 3/29/2019 2:00:52 PM



#86
 p-Isopropyltoluene
 Concen: 50.234 ug/l
 RT: 14.47 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion:119 Resp: 1266399
 Ion Ratio Lower Upper
 119 100
 134 24.6 12.3 36.8
 91 22.3 11.1 33.1





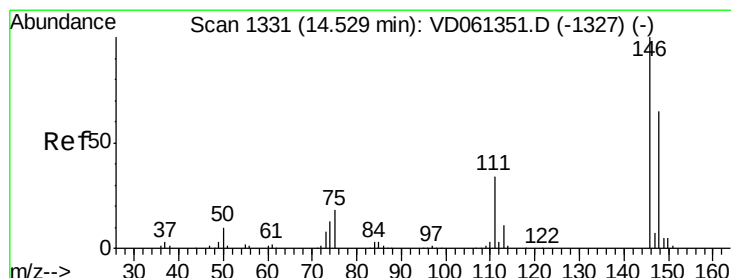
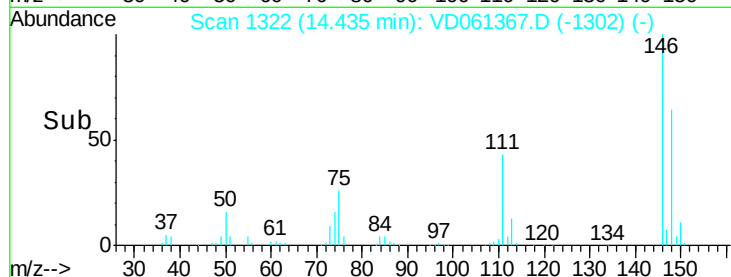
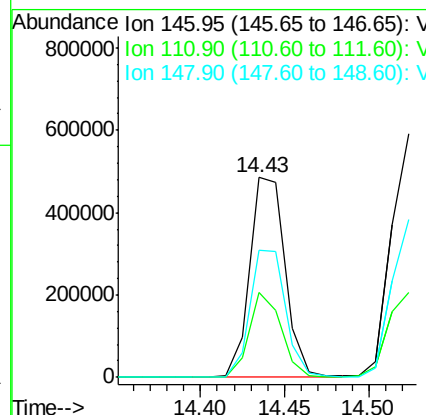
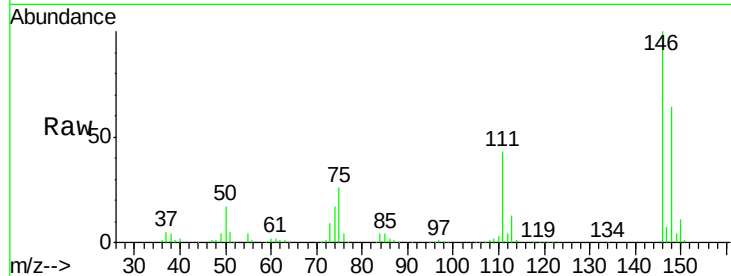
#87
 1,3-Dichlorobenzene
 Concen: 48.929 ug/l
 RT: 14.43 min Scan# 1322
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	710915		
111	42.8	20.6	61.9	
148	63.7	31.1	93.3	

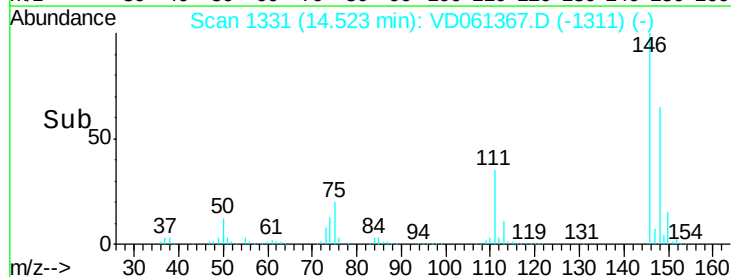
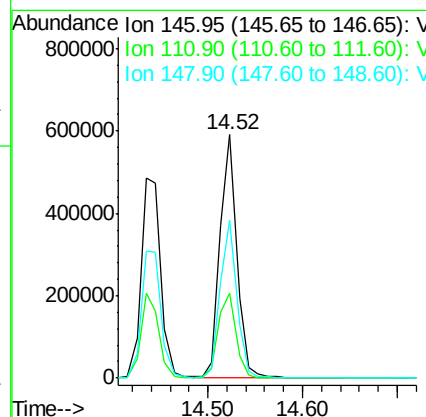
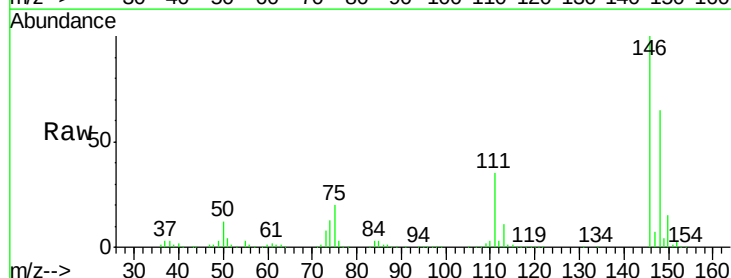
Manual Integrations
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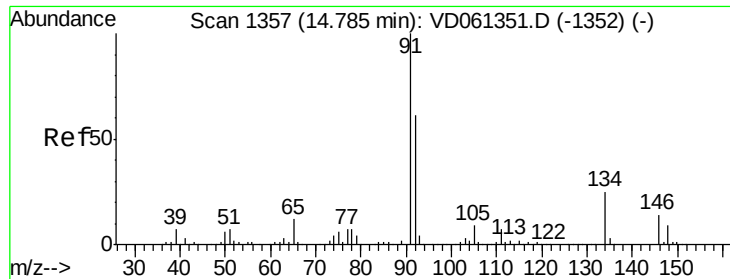
MMDadoda
 3/29/2019 2:00:52 PM



#88
 1,4-Dichlorobenzene
 Concen: 51.591 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	730997		
111	35.0	16.8	50.4	
148	64.6	32.6	98.0	





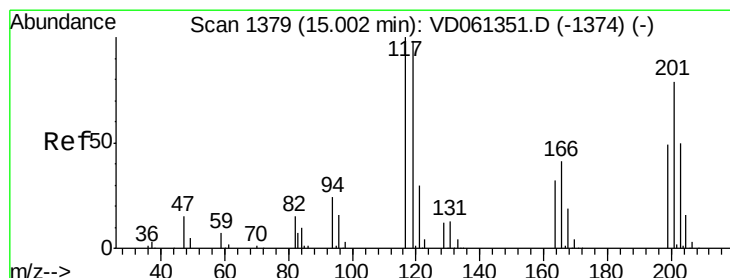
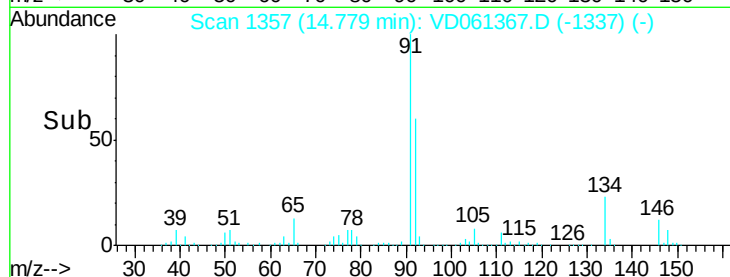
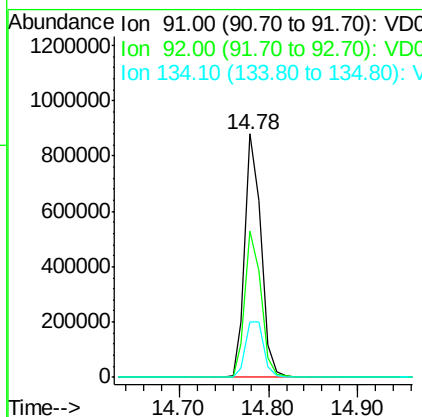
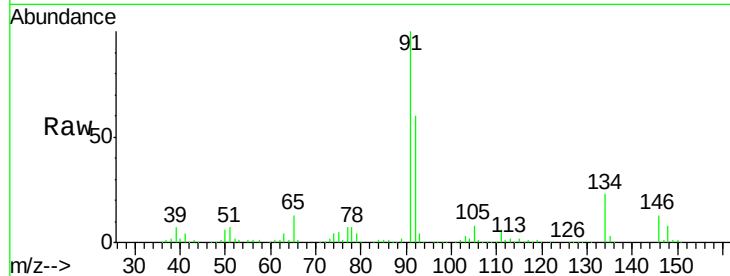
#89
n-Butylbenzene
Concen: 47.931 ug/l
RT: 14.78 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1109056
Ion Ratio Lower Upper
91 100
92 60.2 30.3 91.0
134 23.0 12.4 37.0

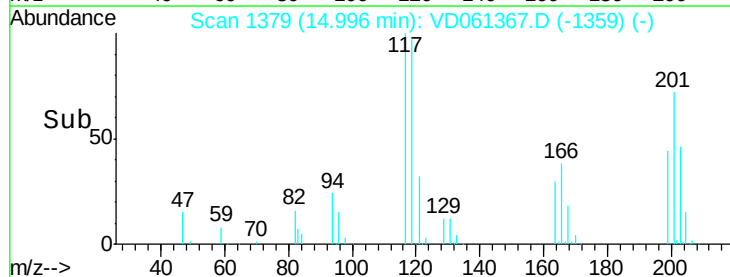
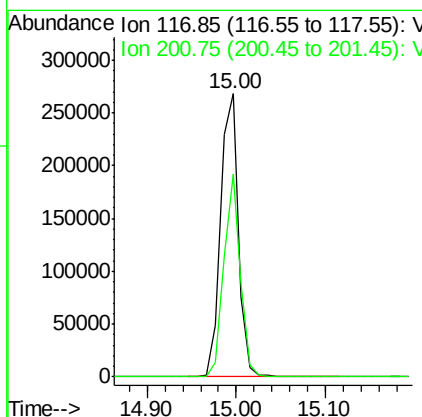
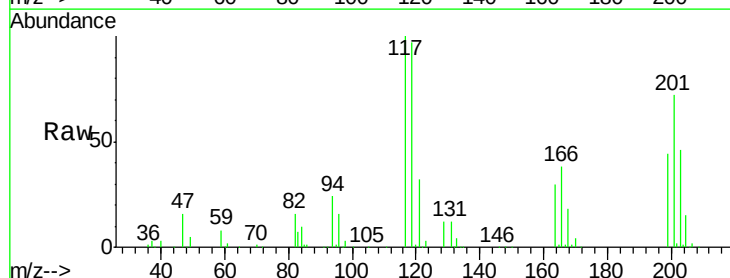
Manual Integrations
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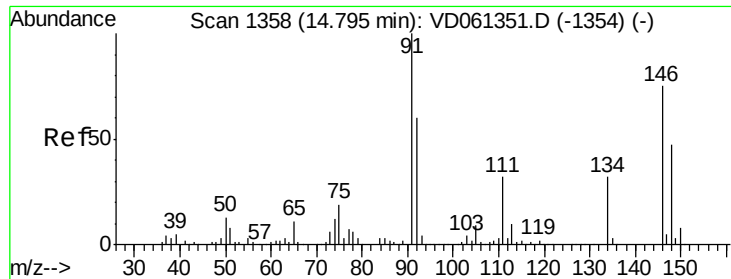
MMDadoda
3/29/2019 2:00:52 PM



#90
Hexachloroethane
Concen: 52.946 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion: 117 Resp: 377084
Ion Ratio Lower Upper
117 100
201 71.6 39.6 119.0





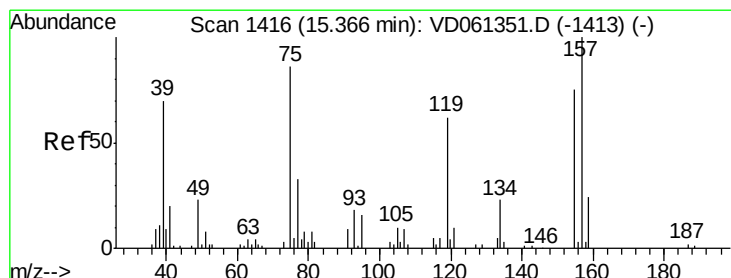
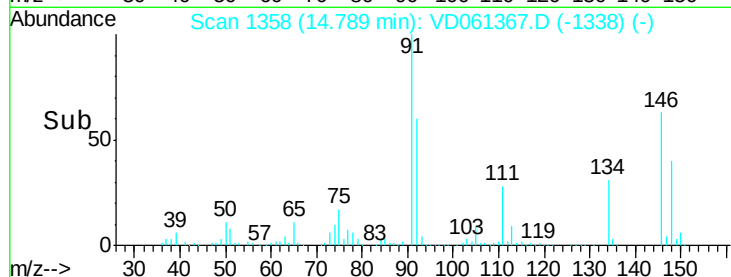
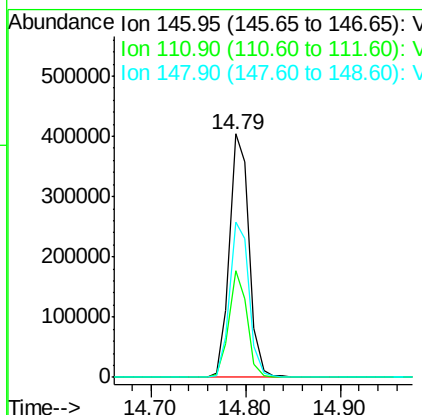
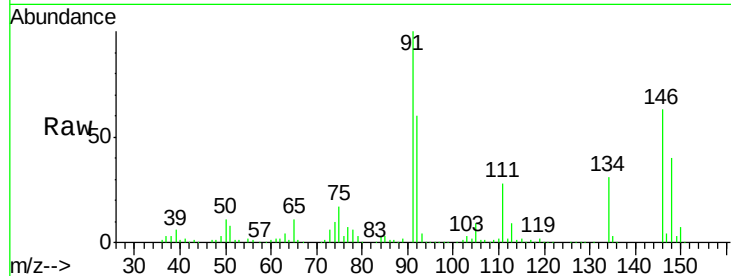
#91
 1,2-Dichlorobenzene
 Concen: 48.438 ug/l
 RT: 14.79 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.2	63.6
148	63.6	31.6	95.0

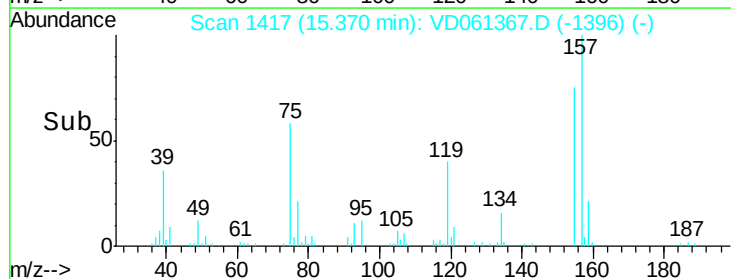
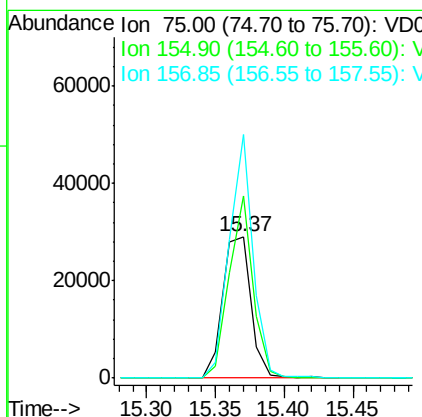
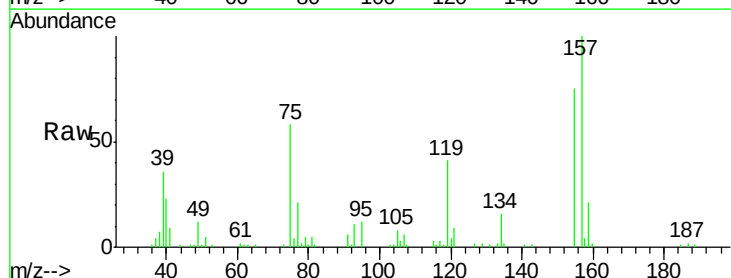
Manual Integrations
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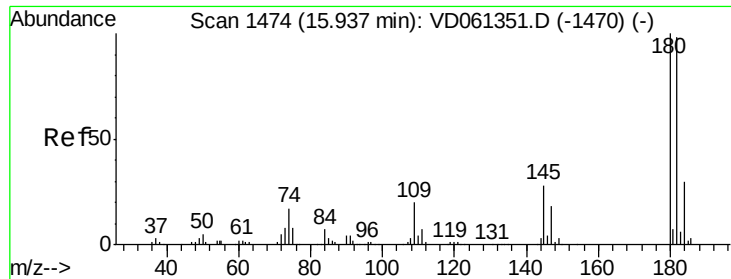
MMDadoda
 3/29/2019 2:00:52 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.101 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	128.5	43.6	130.9
157	171.8	58.5	175.3





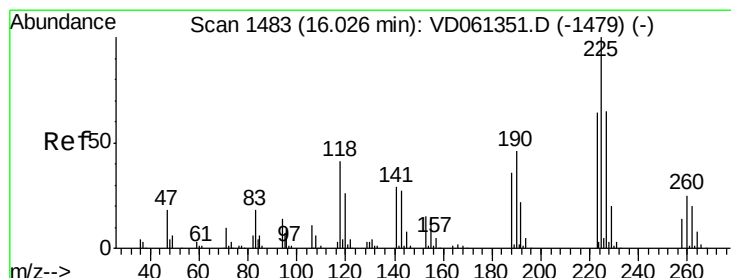
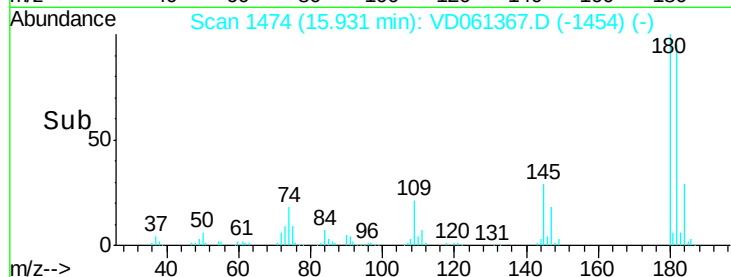
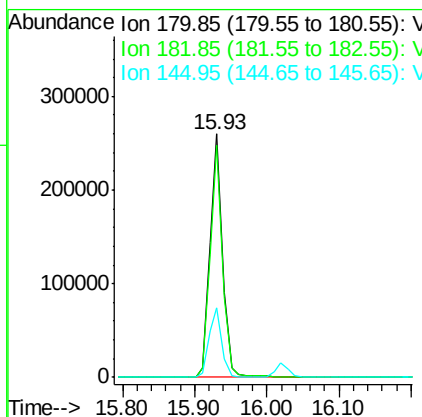
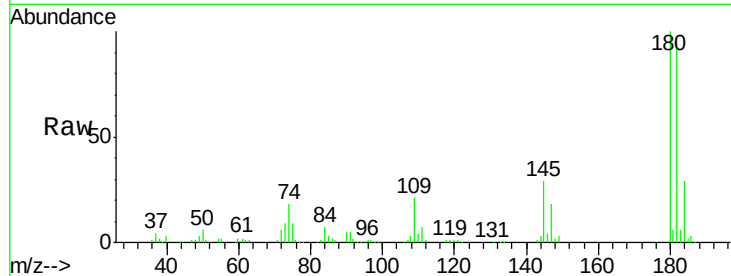
#93
 1,2,4-Trichlorobenzene
 Concen: 57.582 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	312610		
182	95.4	48.9	146.8	
145	28.6	14.1	42.3	

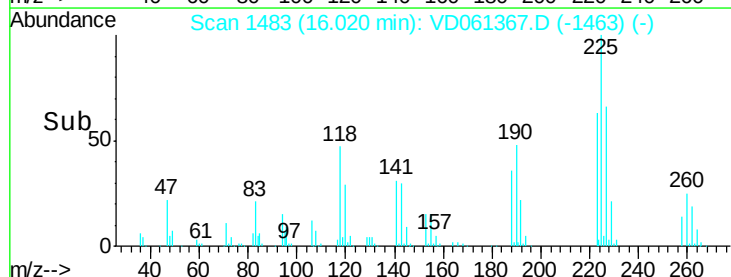
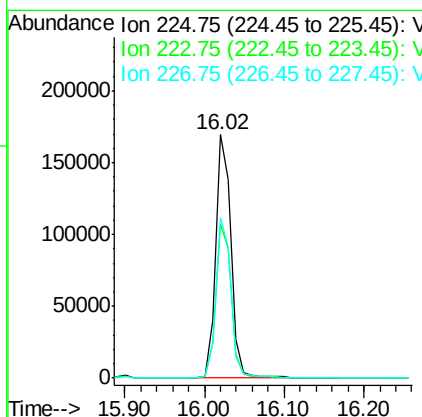
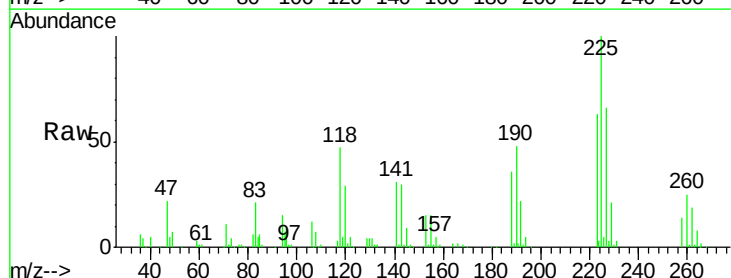
Manual Integrations
 APPROVED

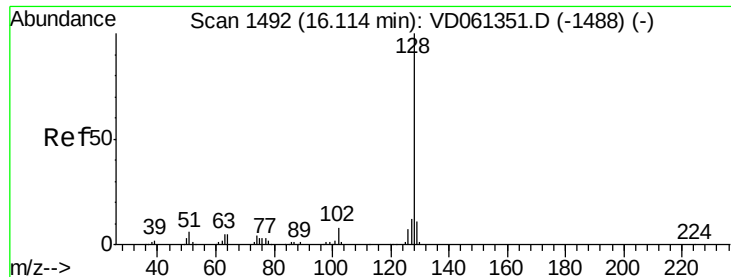
MMDadoda
 3/29/2019 2:00:52 PM



#94
 Hexachlorobutadiene
 Concen: 54.306 ug/l
 RT: 16.02 min Scan# 1483
 Delta R.T. -0.01 min
 Lab File: VD061367.D
 Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	230382		
223	63.4	32.0	96.0	
227	66.1	32.4	97.2	





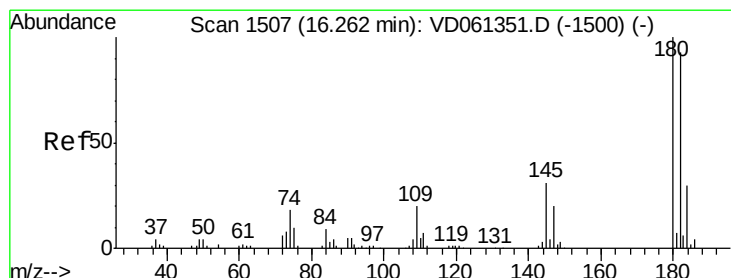
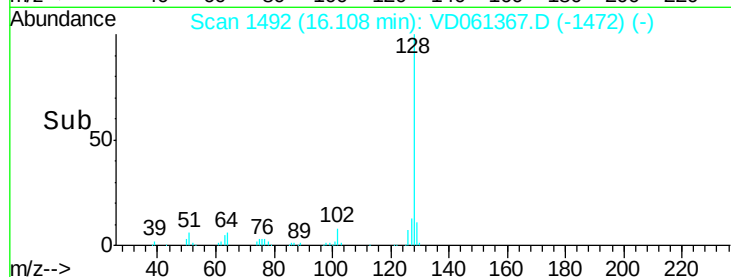
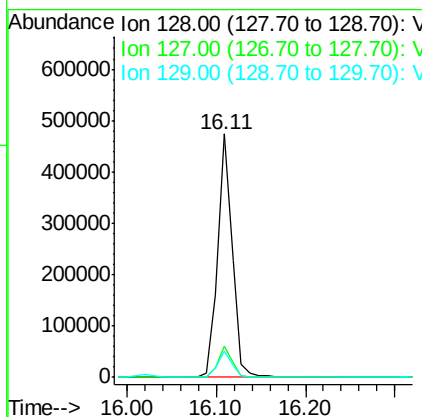
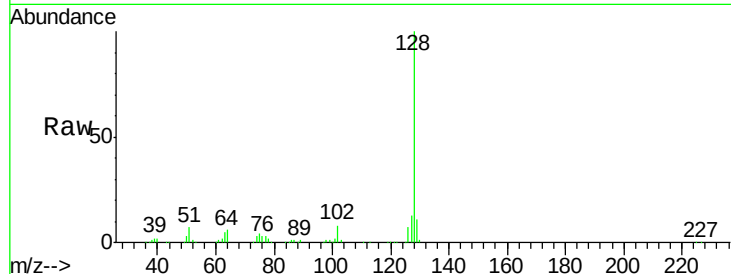
#95
Naphthalene
Concen: 65.655 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	543304		
127	12.8		9.9	14.9
129	10.9		8.9	13.3

Manual Integrations
APPROVED

MMDadoda
3/29/2019 2:00:52 PM



#96
1,2,3-Trichlorobenzene
Concen: 67.216 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD061367.D
Acq: 27 Mar 2019 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	160577		
182	93.6		46.4	139.1
145	31.3		15.3	45.9

