

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070119\
 Data File : VD062998.D
 Acq On : 1 Jul 2019 18:52
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 9:15:48 AM

Quant Time: Jul 02 08:16:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	964712	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1362477	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1092176	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	574941	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	473987	45.20	ug/l	-0.01
Spiked Amount			Recovery	=	90.40%	
35) Dibromofluoromethane	6.92	113	498861	43.42	ug/l	-0.01
Spiked Amount			Recovery	=	86.84%	
50) Toluene-d8	10.42	98	1043030	41.71	ug/l	0.00
Spiked Amount			Recovery	=	83.42%	
62) 4-Bromofluorobenzene	13.56	95	482146	42.41	ug/l	0.00
Spiked Amount			Recovery	=	84.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	527247	42.235	ug/l	100
3) Chloromethane	1.74	50	421408	44.885	ug/l	98
4) Vinyl Chloride	1.84	62	438758	47.134	ug/l	99
5) Bromomethane	2.15	94	226443	51.944	ug/l	96
6) Chloroethane	2.26	64	226492	53.743	ug/l	98
7) Trichlorofluoromethane	2.53	101	956410	50.768	ug/l	100
8) Diethyl Ether	2.87	74	116937	48.853	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.14	101	523166	51.260	ug/l	97
10) Methyl Iodide	3.30	142	737840	54.798	ug/l	97
11) Tert butyl alcohol	4.08	59	126552	264.978	ug/l #	89
12) 1,1-Dichloroethene	3.12	96	387723	50.641	ug/l	91
13) Acrolein	3.03	56	102912	211.072	ug/l	100
14) Allyl chloride	3.61	41	618133	54.640	ug/l	95
15) Acrylonitrile	4.19	53	323412	288.191	ug/l	94
16) Acetone	3.22	43	538190	253.173	ug/l #	93
17) Carbon Disulfide	3.37	76	1156373	47.258	ug/l	96
18) Methyl Acetate	3.64	43	185299	58.536	ug/l	96
19) Methyl tert-butyl Ether	4.23	73	883068	53.279	ug/l	98
20) Methylene Chloride	3.81	84	438954	54.888	ug/l	94
21) trans-1,2-Dichloroethene	4.21	96	425003	52.133	ug/l	97
22) Diisopropyl ether	5.12	45	1274527	55.398	ug/l	98
23) Vinyl Acetate	5.06	43	3921717	272.412	ug/l	98
24) 1,1-Dichloroethane	4.98	63	802166	53.552	ug/l	98
25) 2-Butanone	6.07	43	549056	279.952	ug/l	94
26) 2,2-Dichloropropane	6.02	77	825413	51.988	ug/l	98
27) cis-1,2-Dichloroethene	6.03	96	468308	54.322	ug/l	94
28) Bromochloromethane	6.44	49	286250	54.259	ug/l	97
29) Tetrahydrofuran	6.46	42	251362	270.881	ug/l	98
30) Chloroform	6.66	83	951458	52.229	ug/l	90
31) Cyclohexane	6.95	56	491561	49.918	ug/l	88
32) 1,1,1-Trichloroethane	6.87	97	953096	50.231	ug/l	94
36) 1,1-Dichloropropene	7.15	75	630960	48.920	ug/l	95
37) Ethyl Acetate	6.19	43	268406	49.529	ug/l	96
38) Carbon Tetrachloride	7.11	117	942734m	48.600	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	539114	47.486	ug/l	98
40) Benzene	7.45	78	1401817	54.146	ug/l	99
41) Methacrylonitrile	6.46	41	341808	50.253	ug/l #	91
42) 1,2-Dichloroethane	7.58	62	707426	50.089	ug/l	98
43) Isopropyl Acetate	9.24	43	356043	52.655	ug/l	99
44) Trichloroethene	8.55	130	538488	53.053	ug/l	87
45) 1,2-Dichloropropane	8.94	63	327207	50.827	ug/l	96
46) Dibromomethane	9.06	93	283172	51.206	ug/l	93
47) Bromodichloromethane	9.37	83	720817	50.189	ug/l	99
48) Methyl methacrylate	9.13	41	244452	50.873	ug/l	93
49) 1,4-Dioxane	9.09	88	40170	1004.815	ug/l #	84
51) 4-Methyl-2-Pentanone	10.31	43	1209250	252.236	ug/l	97
52) Toluene	10.51	92	890690	51.180	ug/l	99
53) t-1,3-Dichloropropene	10.91	75	620842	52.814	ug/l	97
54) cis-1,3-Dichloropropene	10.04	75	671998	52.595	ug/l	90
55) 1,1,2-Trichloroethane	11.19	97	307801	51.480	ug/l	94
56) Ethyl methacrylate	11.05	69	339660	53.157	ug/l	94
57) 1,3-Dichloropropane	11.41	76	462637	50.534	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.86	63	882499	269.022	ug/l	98
59) 2-Hexanone	11.54	43	864726	253.264	ug/l	99
60) Dibromochloromethane	11.69	129	563198	50.571	ug/l	98
61) 1,2-Dibromoethane	11.80	107	380873	53.936	ug/l	95
64) Tetrachloroethene	11.26	164	457279	50.872	ug/l	97
65) Chlorobenzene	12.40	112	1137515	56.119	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.51	131	504009	53.170	ug/l	92
67) Ethyl Benzene	12.52	91	1933537	53.131	ug/l	99
68) m/p-Xylenes	12.67	106	1373985	108.402	ug/l	99
69) o-Xylene	13.05	106	618153	53.350	ug/l	96
70) Styrene	13.07	104	1128867	55.468	ug/l	94
71) Bromoform	13.23	173	348644	53.682	ug/l #	95
73) Isopropylbenzene	13.40	105	1997526	54.186	ug/l	98
74) N-amyl acetate	13.26	43	519429	58.021	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	341448	56.847	ug/l	96
76) 1,2,3-Trichloropropane	13.73	75	385688	58.109	ug/l	99
77) Bromobenzene	13.67	156	551062	55.576	ug/l	88
78) n-propylbenzene	13.77	91	2392258	55.755	ug/l	96
79) 2-Chlorotoluene	13.84	91	1376178	56.124	ug/l	96
80) 1,3,5-Trimethylbenzene	13.93	105	1610696	52.017	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.48	75	104023	59.799	ug/l	91
82) 4-Chlorotoluene	13.95	91	1553858	52.637	ug/l	96
83) tert-Butylbenzene	14.19	119	1919484	55.614	ug/l	97
84) 1,2,4-Trimethylbenzene	14.24	105	1705489	53.738	ug/l	97
85) sec-Butylbenzene	14.37	105	1928159	51.400	ug/l	98
86) p-Isopropyltoluene	14.49	119	1900254	55.372	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	955303	53.747	ug/l	95
88) 1,4-Dichlorobenzene	14.54	146	982227	55.020	ug/l	96
89) n-Butylbenzene	14.80	91	1723120	53.645	ug/l	96
90) Hexachloroethane	15.00	117	523552	56.740	ug/l	77
91) 1,2-Dichlorobenzene	14.81	146	827788	54.434	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	67418	57.508	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	638942	53.787	ug/l	97
94) Hexachlorobutadiene	16.04	225	480381	52.933	ug/l	94
95) Naphthalene	16.13	128	965822	58.008	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	496715	54.421	ug/l	97

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

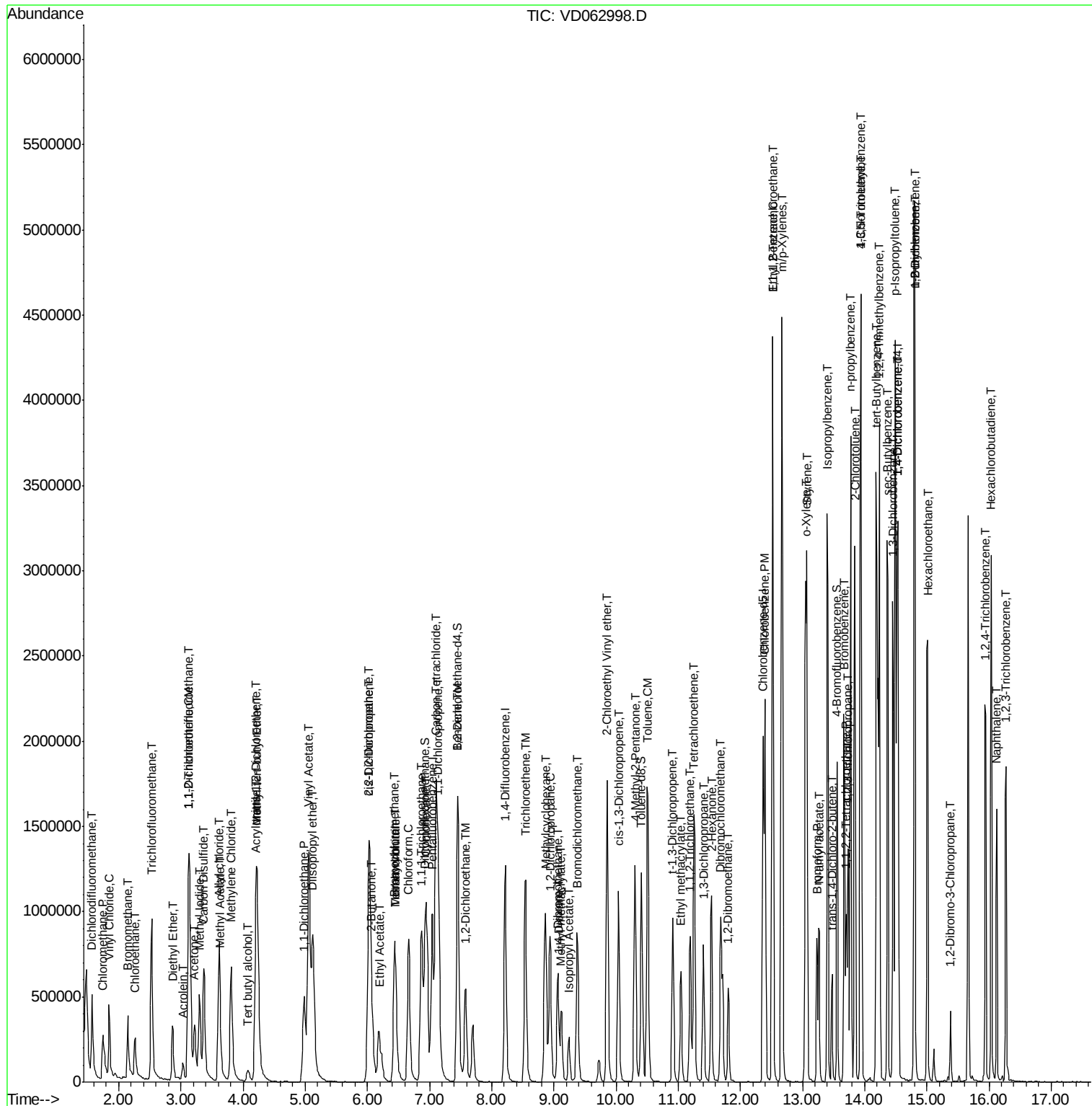
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Data File : VD062998.D
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Operator : VA/AP
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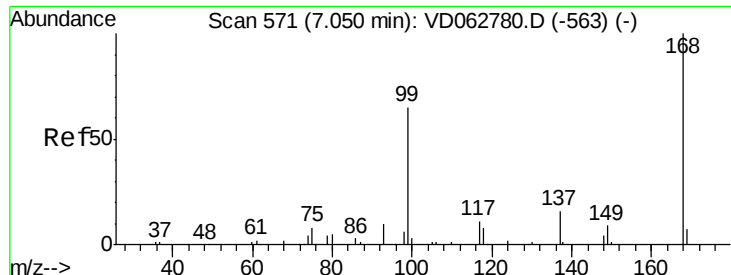
Instrument :
MSVOA_D
Client Sample ID :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 964712

Ion Ratio Lower Upper

168 100

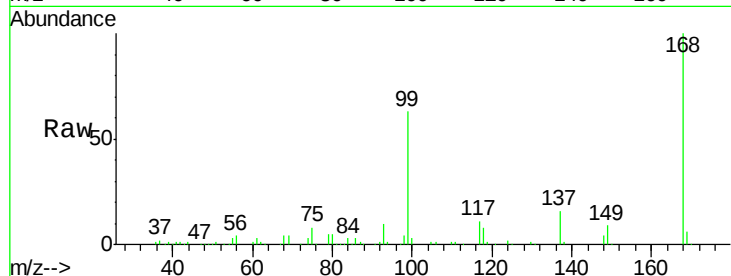
99 63.3 53.0 79.6

Manual Integrations

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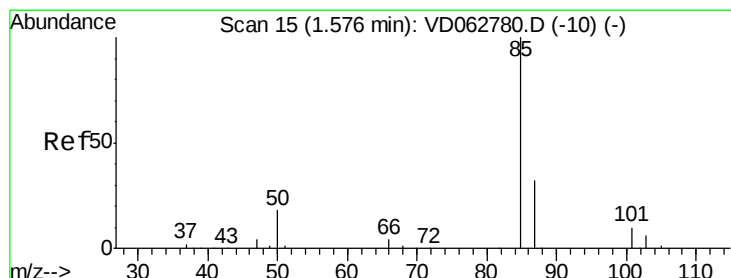
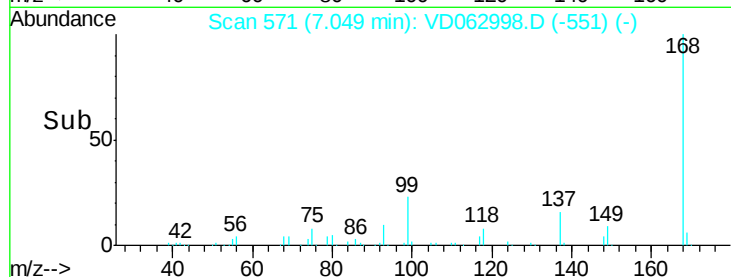
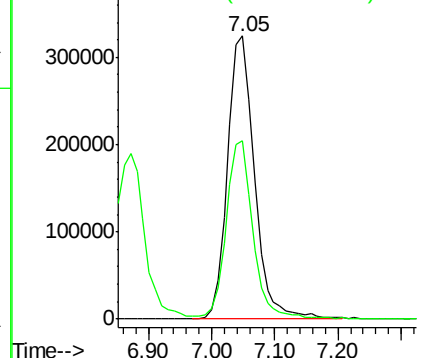
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 42.235 ug/l

RT: 1.57 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD062998.D

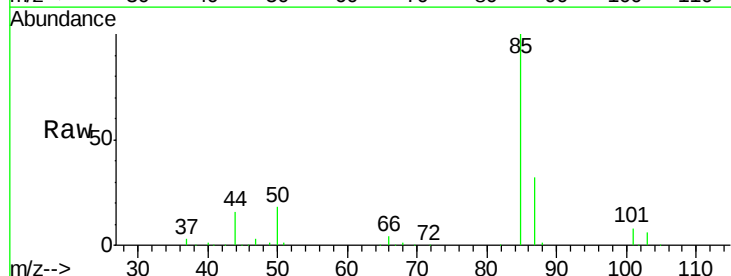
Acq: 1 Jul 2019 18:52

Tgt Ion: 85 Resp: 527247

Ion Ratio Lower Upper

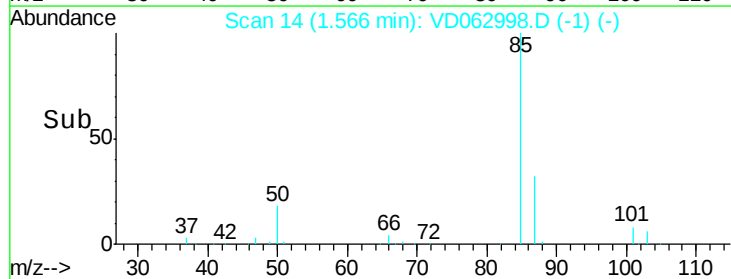
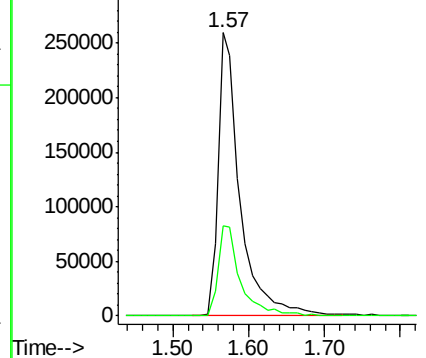
85 100

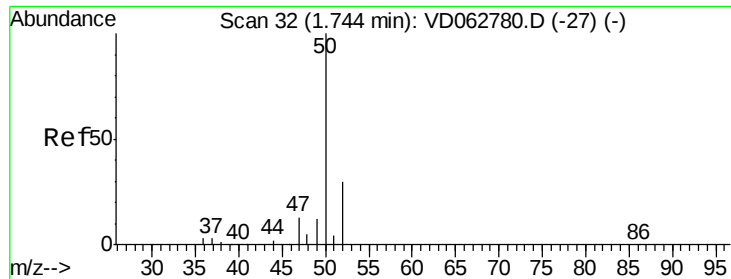
87 31.7 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 44.885 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 421408

Ion Ratio Lower Upper

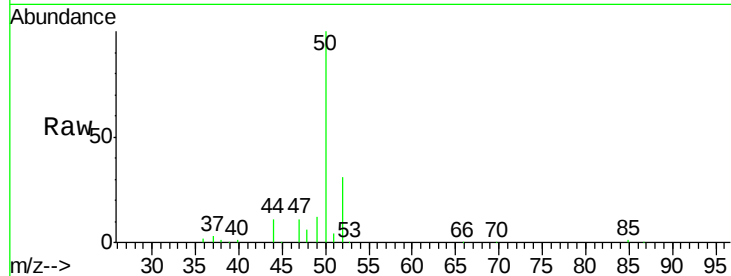
50 100

52 30.8 23.6 35.4

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

150000

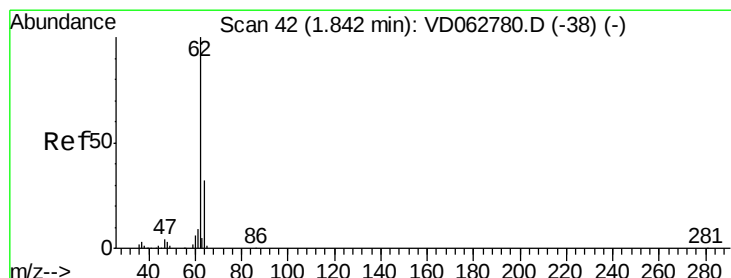
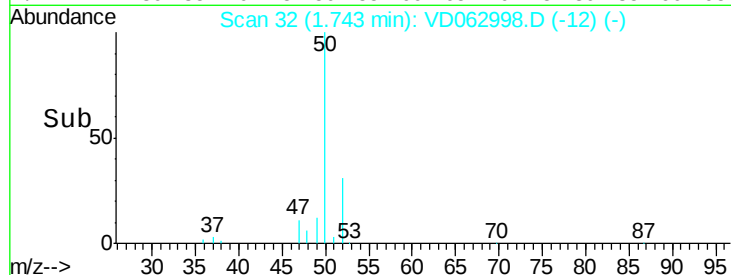
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50000

0

1.70 1.80 1.90

Time-->



#4

Vinyl Chloride

Concen: 47.134 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.00 min

Lab File: VD062998.D

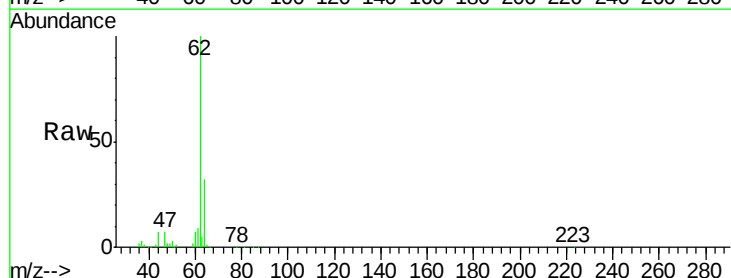
Acq: 1 Jul 2019 18:52

Tgt Ion: 62 Resp: 438758

Ion Ratio Lower Upper

62 100

64 32.3 25.6 38.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.84

250000

200000

150000

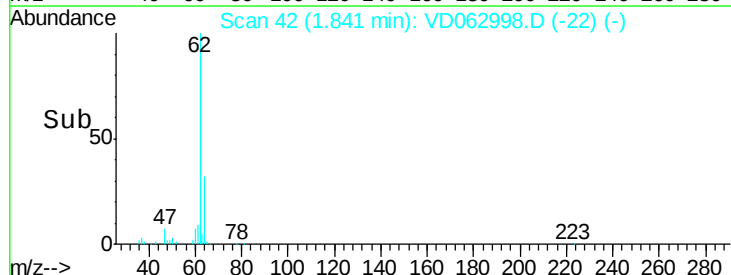
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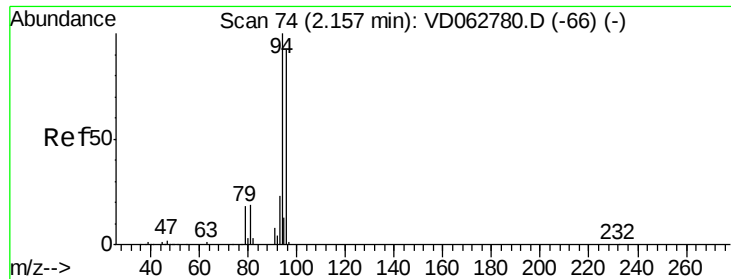
50000

0

1.80 1.90 2.00

Time-->





#5

Bromomethane

Concen: 51.944 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

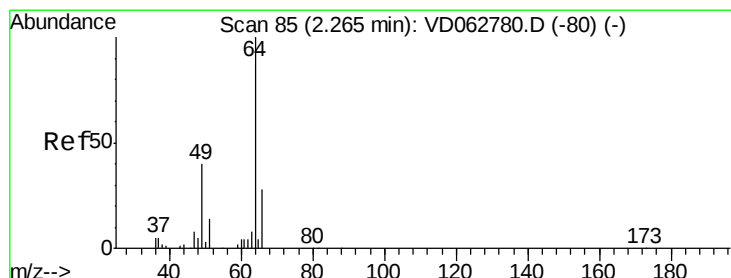
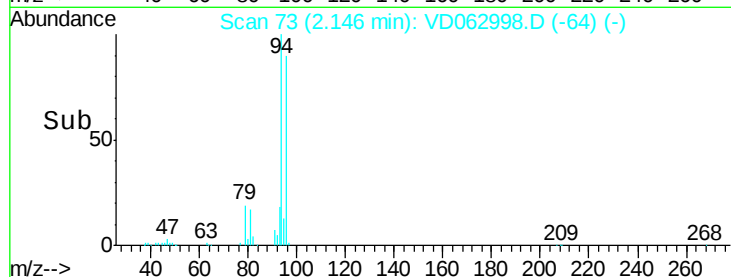
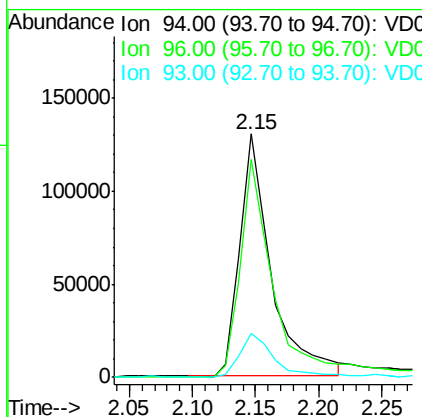
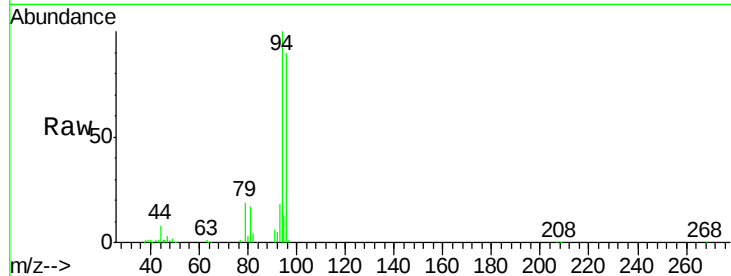
ClientSampleId :

VSTDCCC050EC

Tot Ion:	94	Resp:	226443
Ion	Ratio	Lower	Upper
94	100		
96	89.6	73.4	110.2
93	18.3	18.2	27.4

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#6

Chloroethane

Concen: 53.743 ug/l

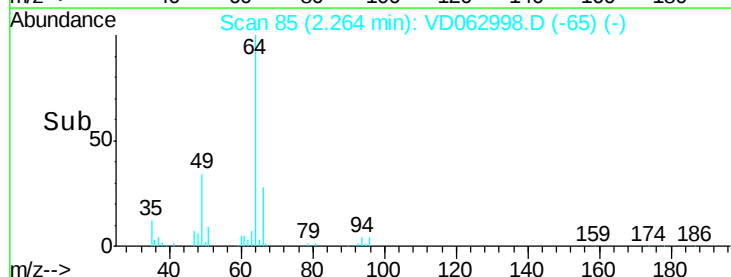
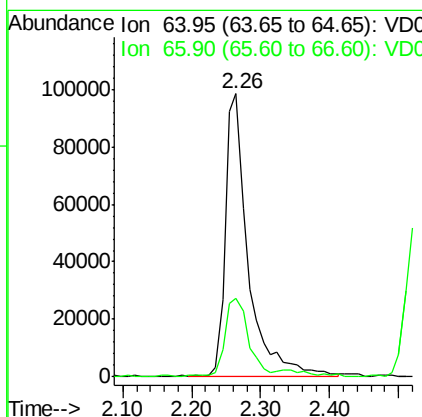
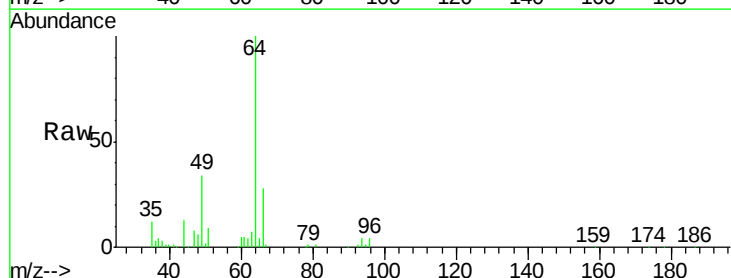
RT: 2.26 min Scan# 85

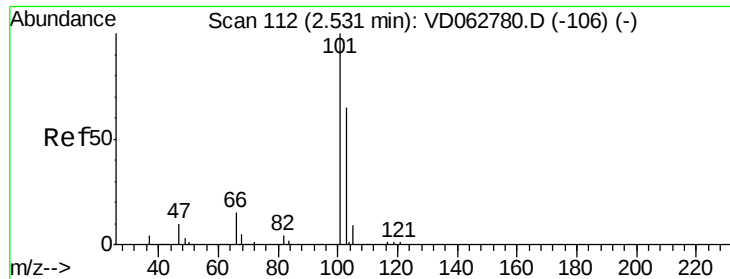
Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	64	Resp:	226492
Ion	Ratio	Lower	Upper
64	100		
66	27.9	23.0	34.4





#7

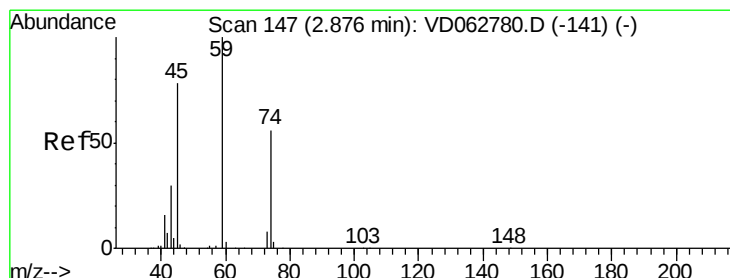
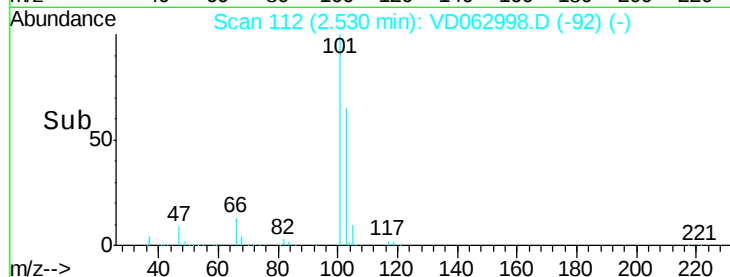
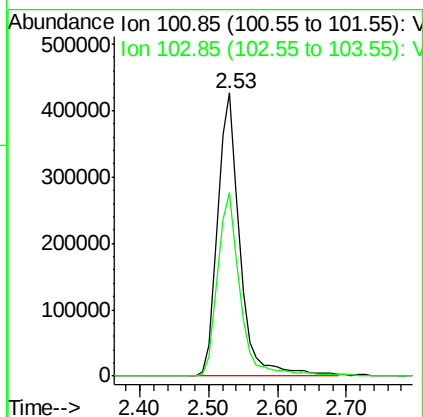
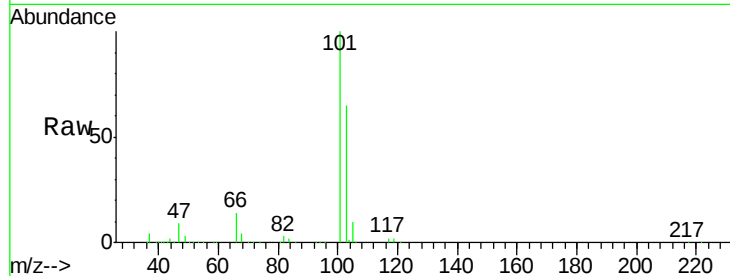
Trichlorofluoromethane
Concen: 50.768 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	956410		
103	65.0	51.8	77.8	

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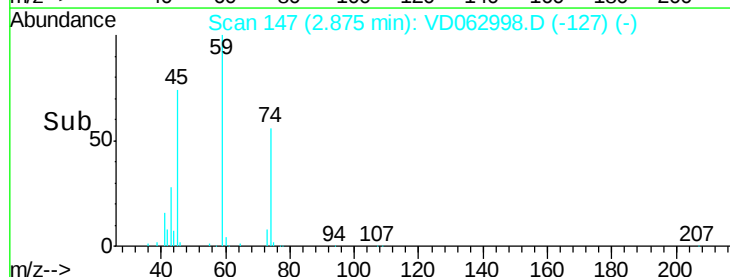
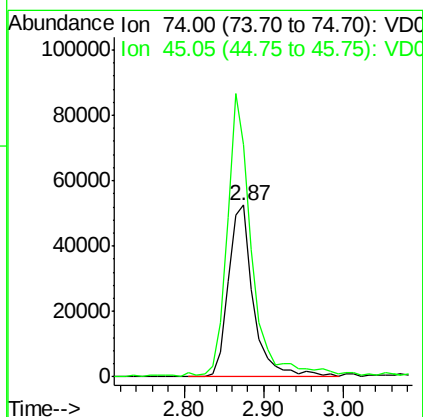
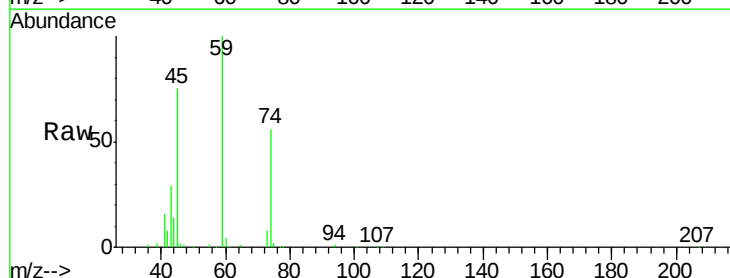
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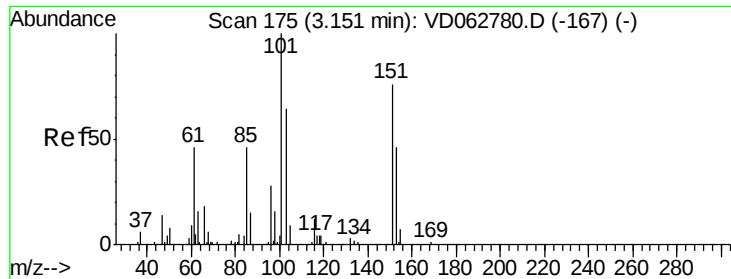


#8

Diethyl Ether
Concen: 48.853 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	116937		
45	135.1	70.2	210.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.260 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

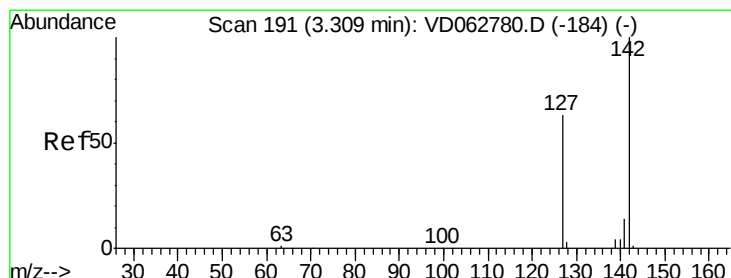
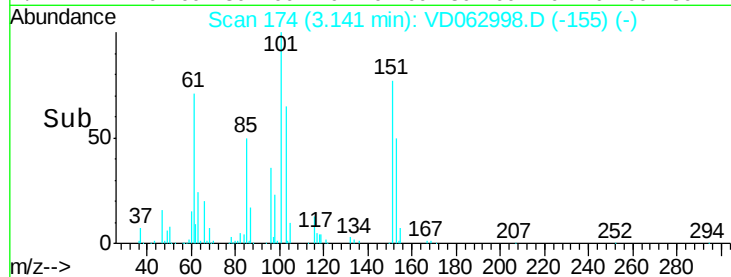
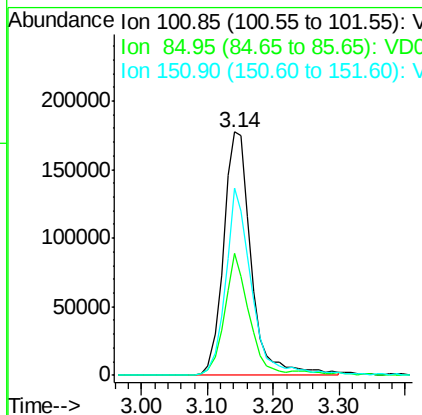
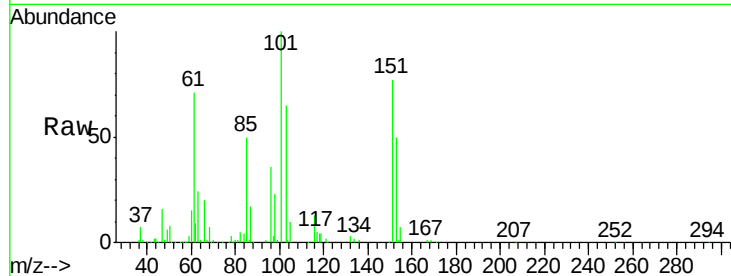
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	523166
Ion Ratio	Lower	Upper	
101	100		
85	49.9	37.0	55.4
151	76.8	60.5	90.7

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7/3/2019 9:15:48 AM



#10

Methyl Iodide

Concen: 54.798 ug/l

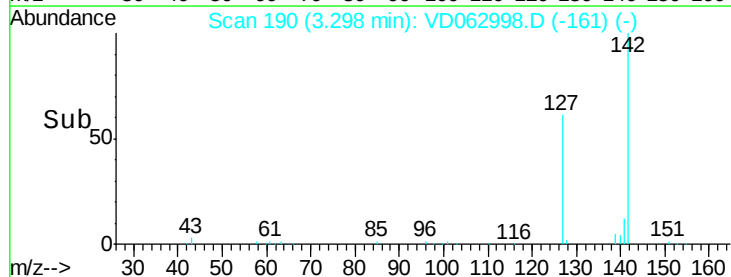
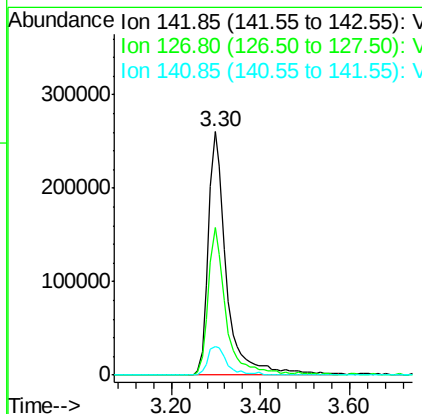
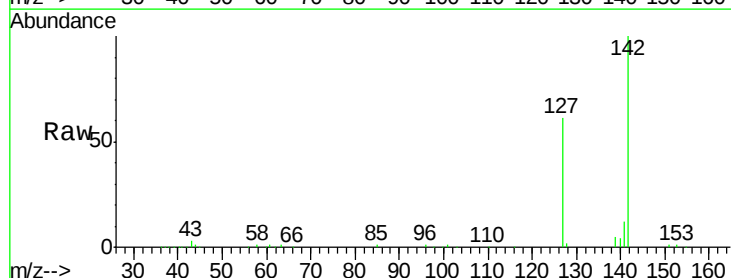
RT: 3.30 min Scan# 190

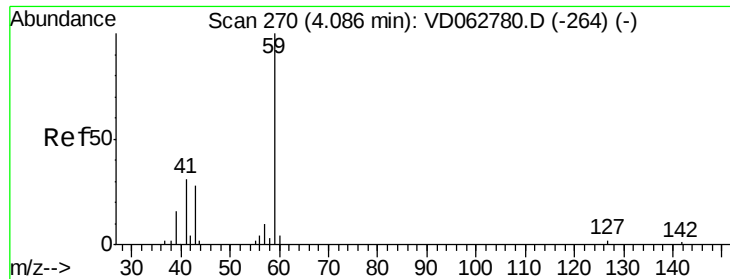
Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	142	Resp:	737840
Ion Ratio	Lower	Upper	
142	100		
127	60.5	50.1	75.1
141	11.8	11.0	16.4





#11

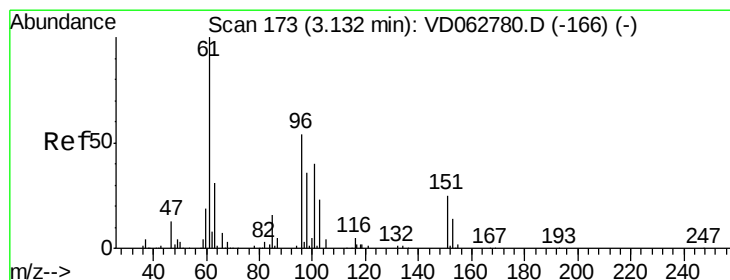
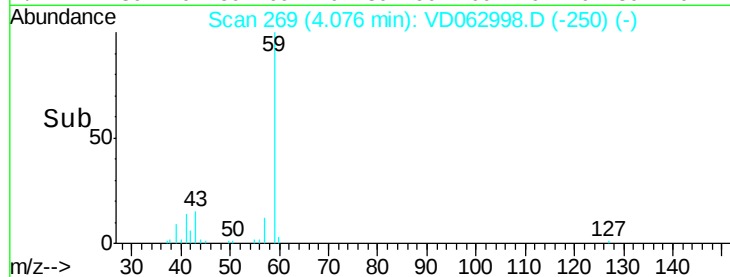
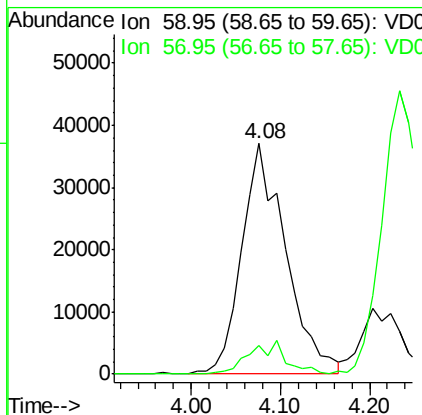
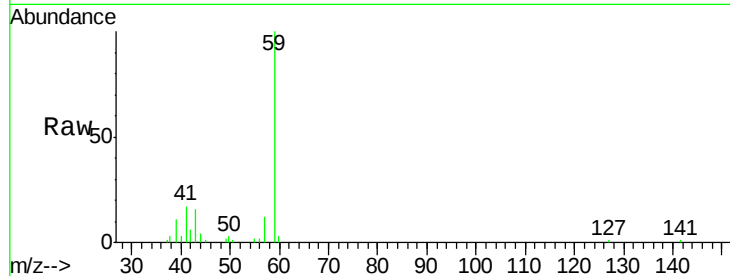
Tert butyl alcohol
Concen: 264.978 ug/l
RT: 4.08 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.2	6.6	10.0#

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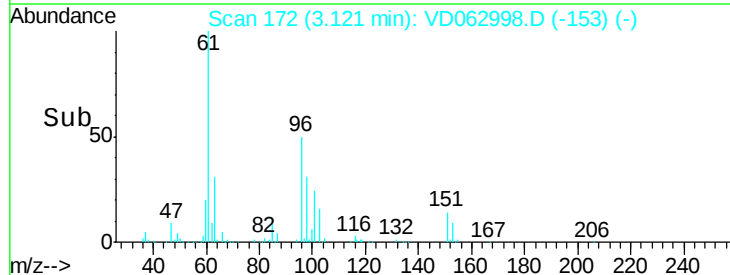
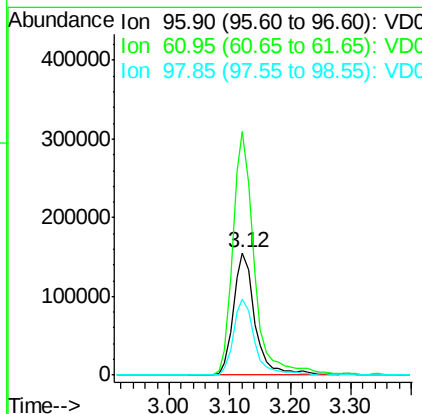
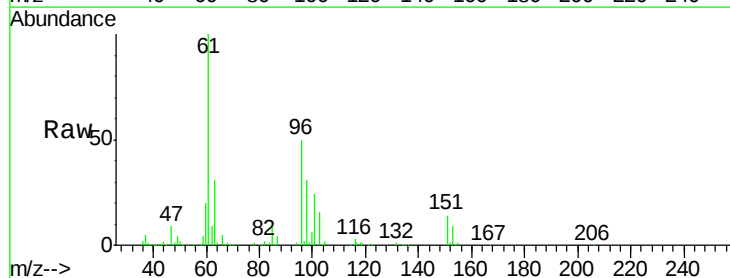
MMDadoda
7/3/2019 9:15:48 AM



#12

1,1-Dichloroethene
Concen: 50.641 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
96	100		
61	198.5	147.1	220.7
98	61.4	52.6	79.0





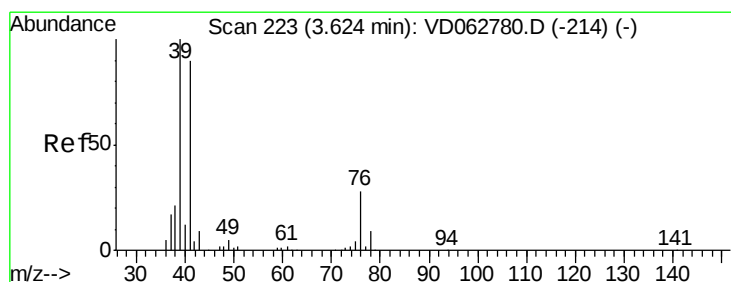
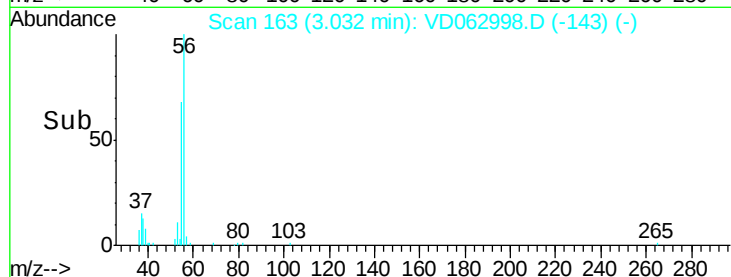
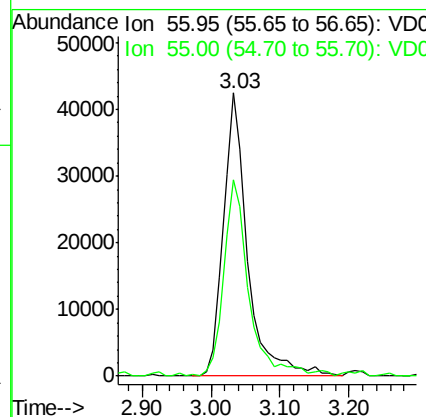
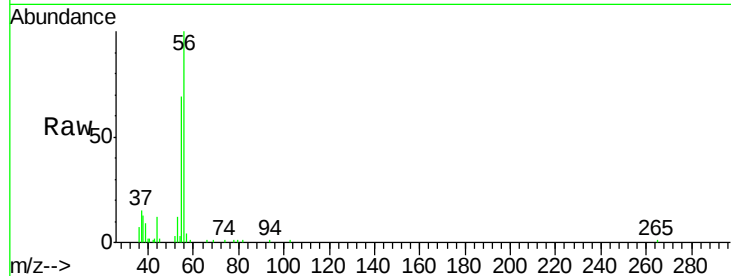
#13
Acrolein
Concen: 211.072 ug/l
RT: 3.03 min Scan# 163
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.4	83.0

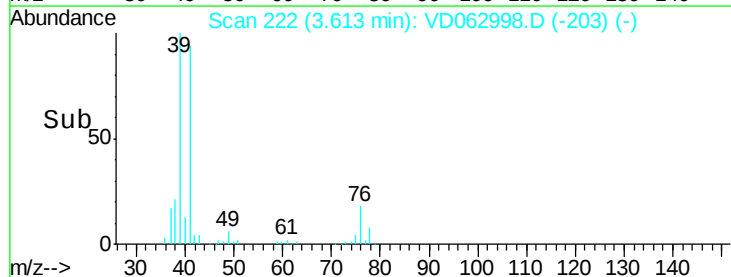
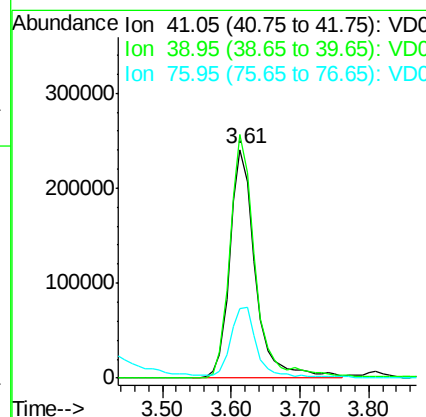
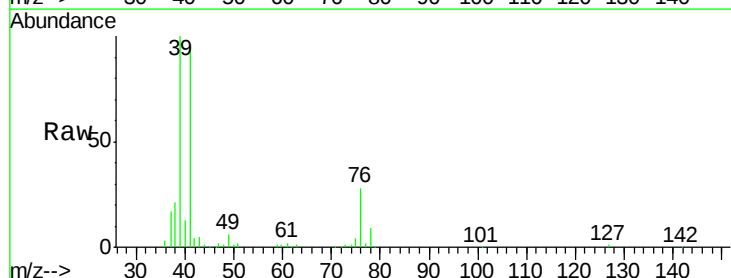
Manual Integrations
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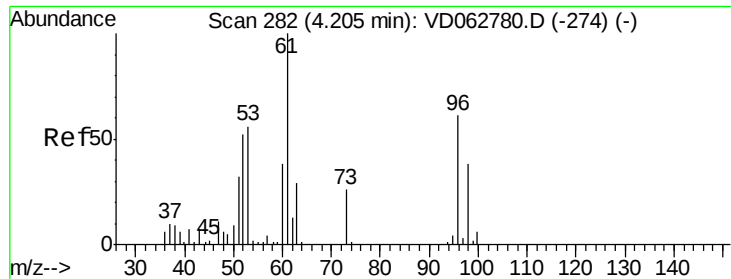
MMDadoda
7/3/2019 9:15:48 AM



#14
Allyl chloride
Concen: 54.640 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
41	100		
39	106.5	88.8	133.2
76	30.1	26.7	40.1





#15

Acrylonitrile

Concen: 288.191 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

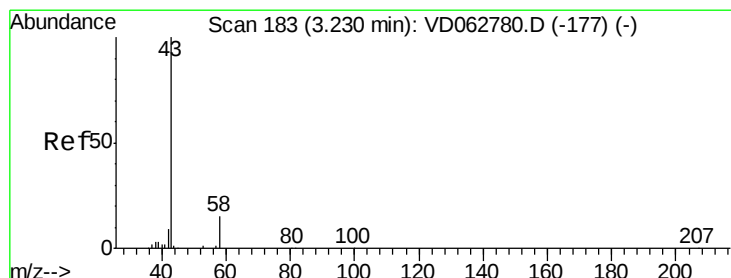
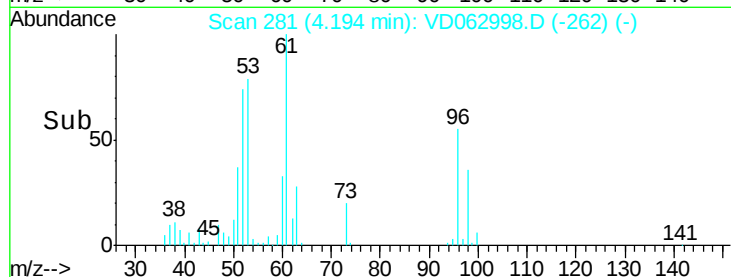
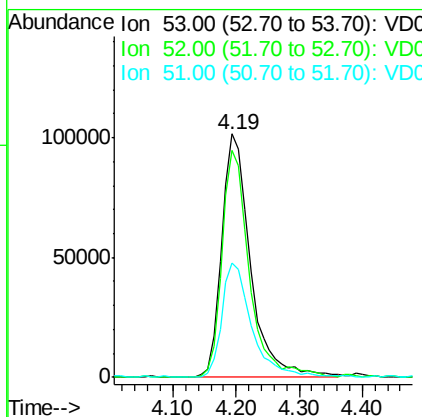
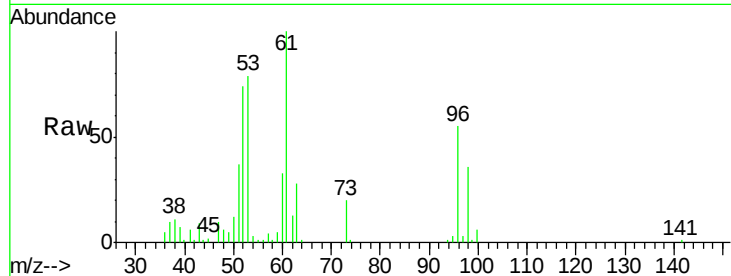
ClientSampleID :

VSTDCCC050EC

Tot Ion:	53	Resp:	323412
Ion	Ratio	Lower	Upper
53	100		
52	93.2	73.3	109.9
51	46.8	44.8	67.2

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#16

Acetone

Concen: 253.173 ug/l

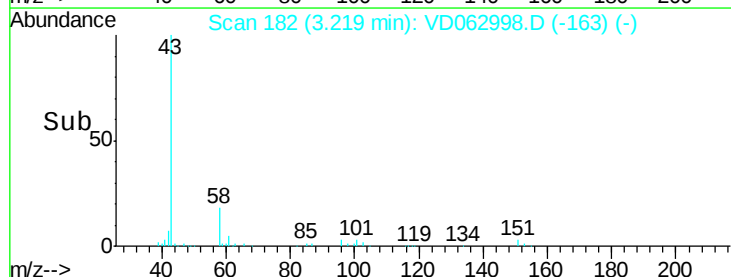
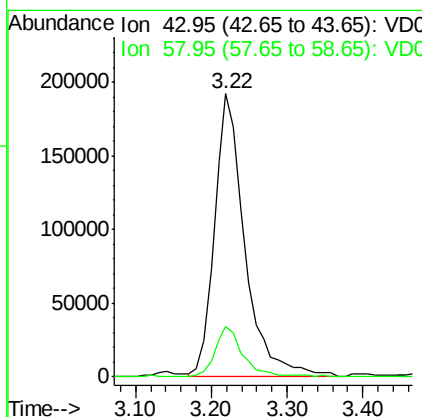
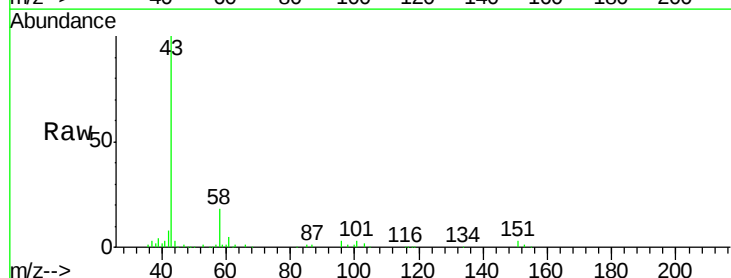
RT: 3.22 min Scan# 182

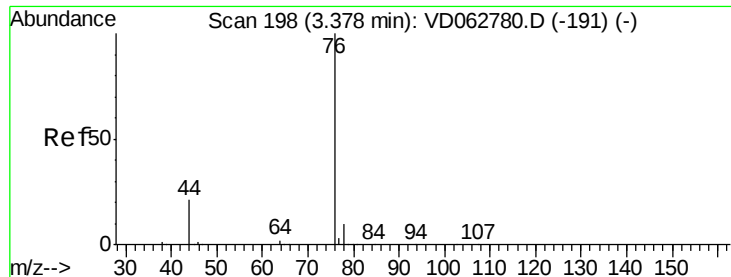
Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	43	Resp:	538190
Ion	Ratio	Lower	Upper
43	100		
58	17.9	11.9	17.9#





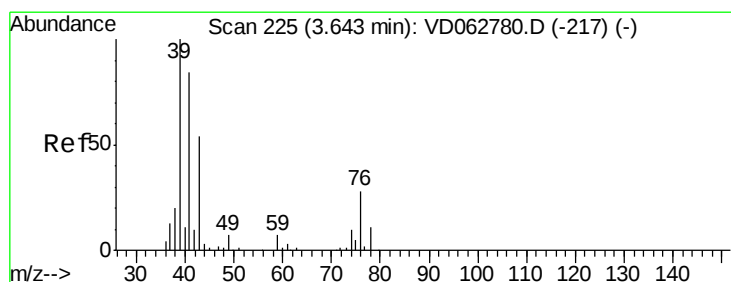
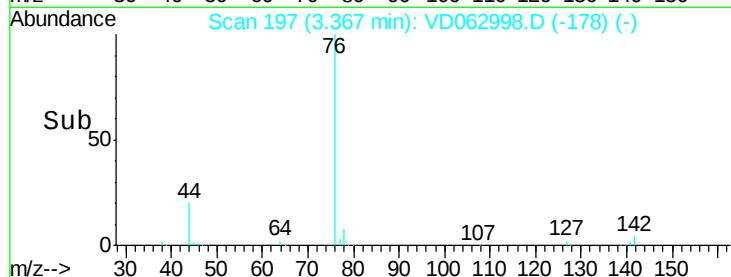
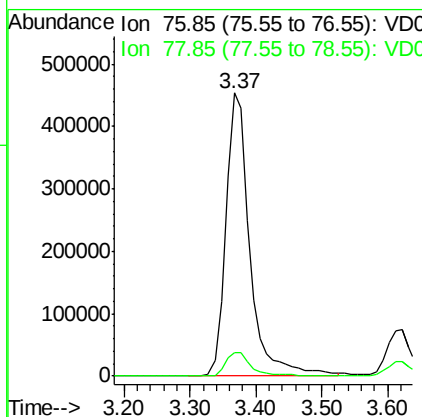
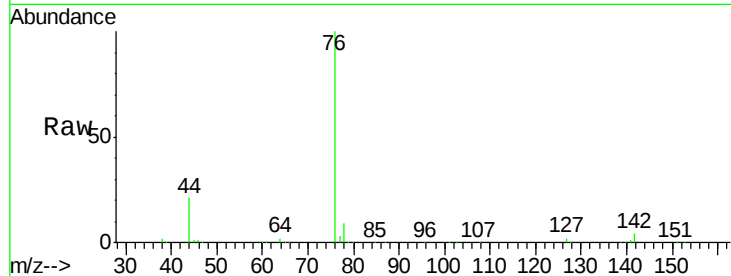
#17
Carbon Disulfide
Concen: 47.258 ug/l
RT: 3.37 min Scan# 197
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 1156373
Ion Ratio Lower Upper
76 100
78 8.5 8.0 12.0

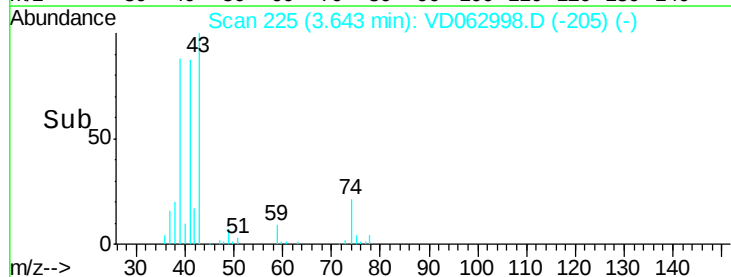
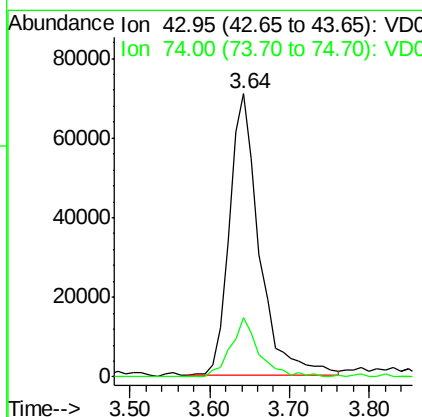
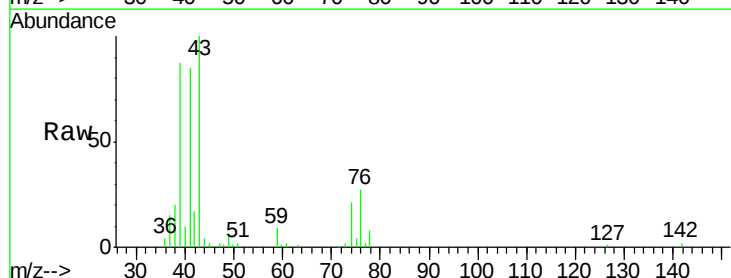
Manual Integrations
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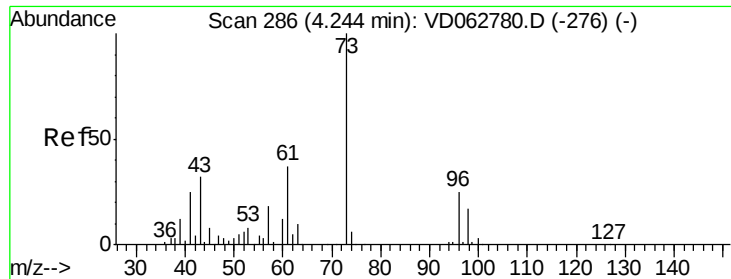
MMDadoda
7/3/2019 9:15:48 AM



#18
Methyl Acetate
Concen: 58.536 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion: 43 Resp: 185299
Ion Ratio Lower Upper
43 100
74 20.9 15.2 22.8





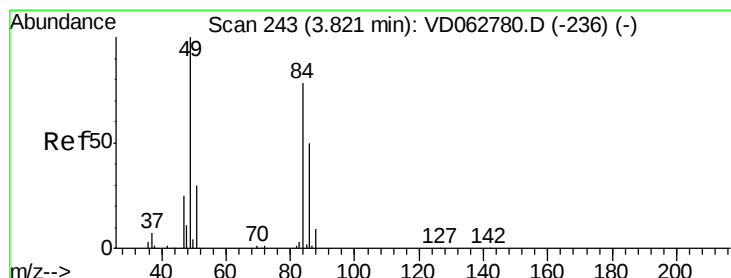
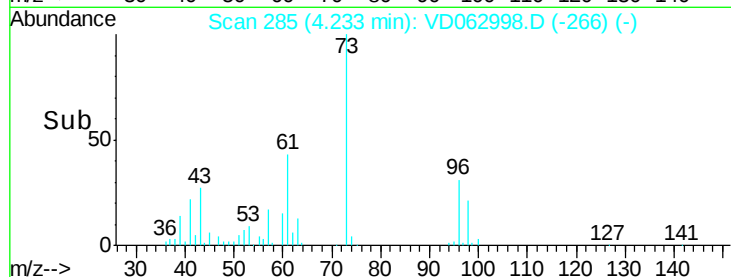
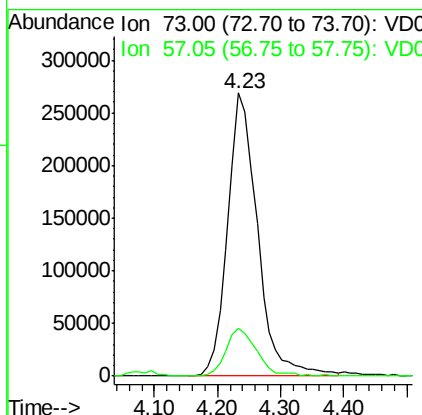
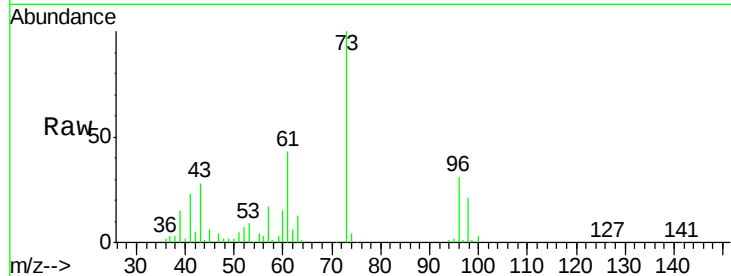
#19
Methyl tert-butyl Ether
Concen: 53.279 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 883068
Ion Ratio Lower Upper
73 100
57 16.9 14.3 21.5

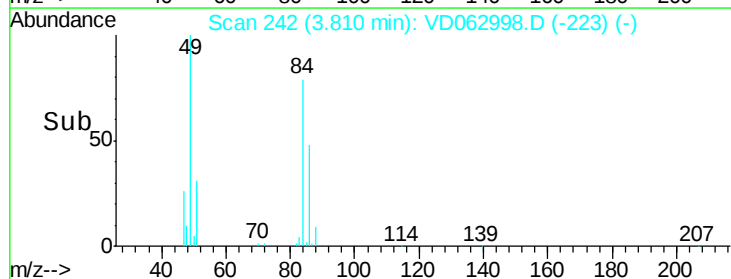
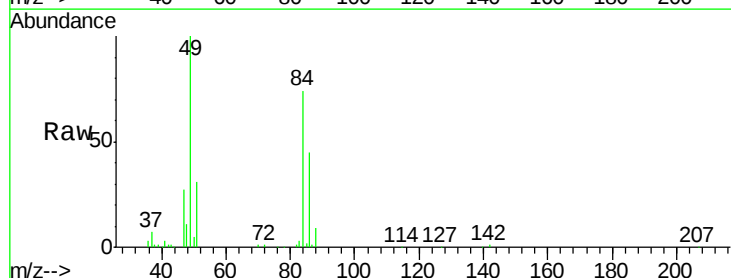
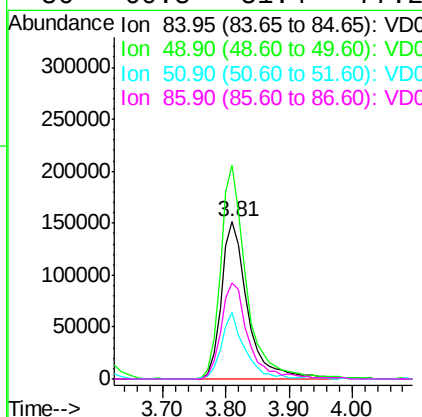
Manual Integrations
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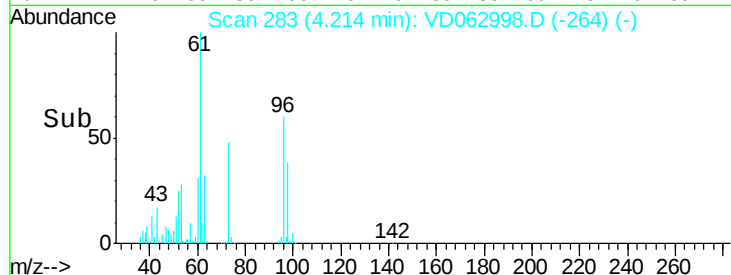
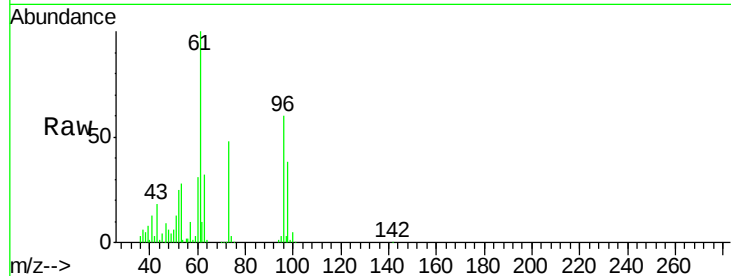
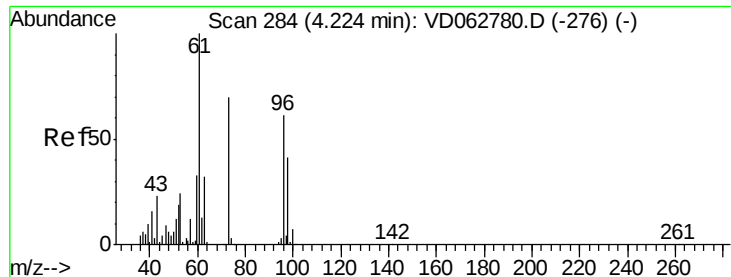
MMDadoda
7/3/2019 9:15:48 AM



#20
Methylene Chloride
Concen: 54.888 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion: 84 Resp: 438954
Ion Ratio Lower Upper
84 100
49 135.8 102.9 154.3
51 42.1 31.2 46.8
86 60.8 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 52.133 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062998.D

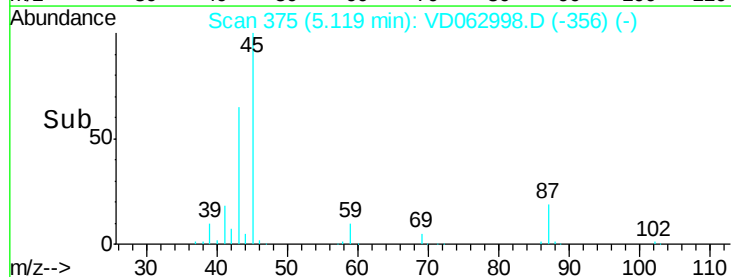
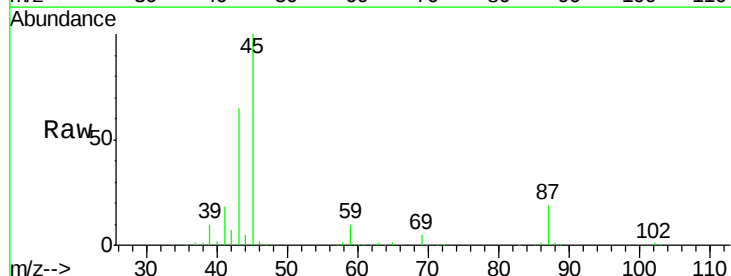
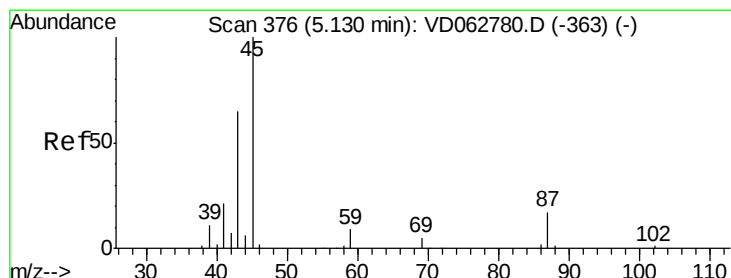
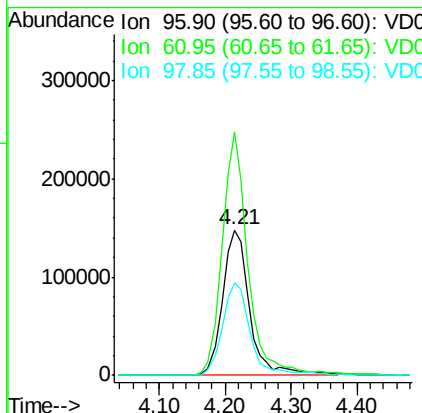
Acq: 1 Jul 2019 18:52

Tot Ion:	96	Resp:	425003
Ion Ratio	Lower	Upper	
96	100		
61	167.8	131.0	196.4
98	63.6	53.2	79.8

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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MMDadoda
7/3/2019 9:15:48 AM



#22

Diisopropyl ether

Concen: 55.398 ug/l

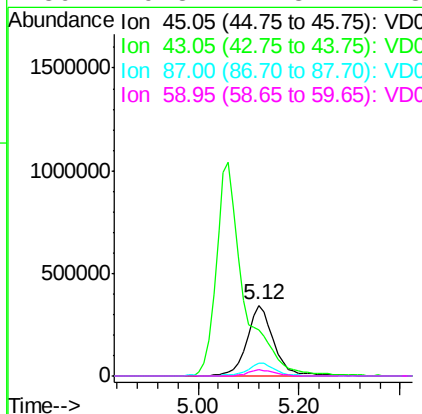
RT: 5.12 min Scan# 375

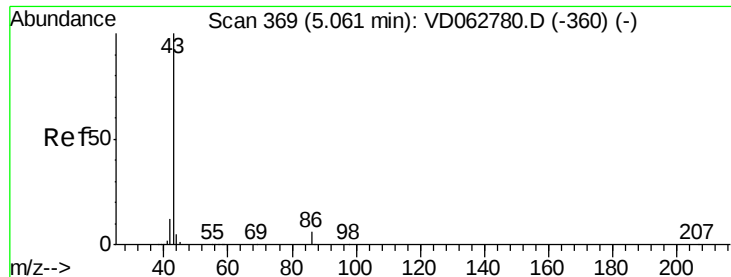
Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	45	Resp:	1274527
Ion Ratio	Lower	Upper	
45	100		
43	64.7	53.4	80.0
87	18.6	14.6	22.0
59	9.8	7.8	11.8





#23

Vinyl Acetate

Concen: 272.412 ug/l

RT: 5.06 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050EC

Tot Ion: 43 Resp: 3921717

Ion Ratio Lower Upper

43 100

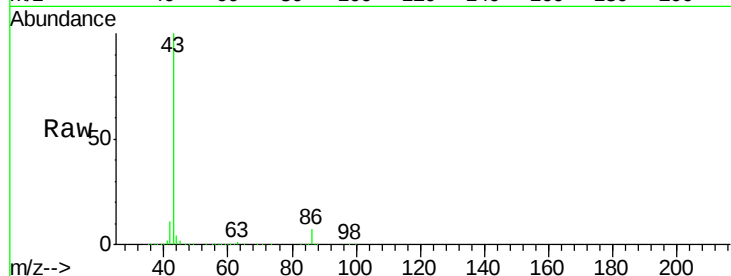
86 6.7 4.7 7.1

Manual Integrations

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7/3/2019 9:15:48 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

1200000

1000000

800000

600000

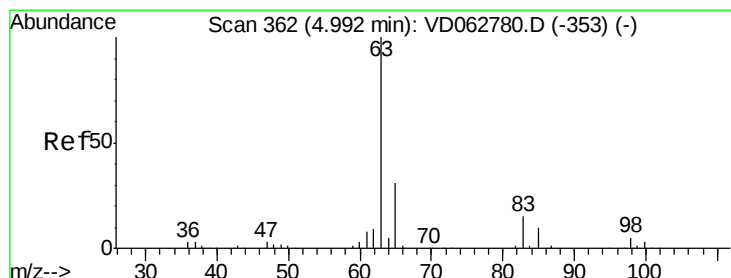
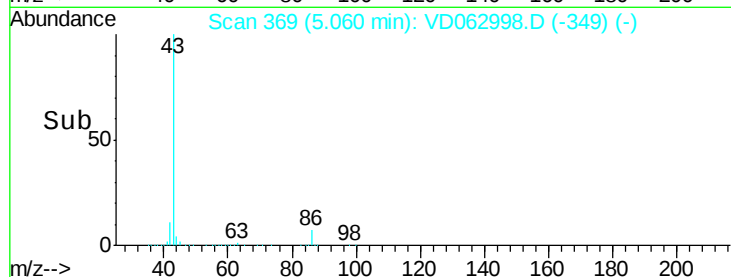
400000

200000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 53.552 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

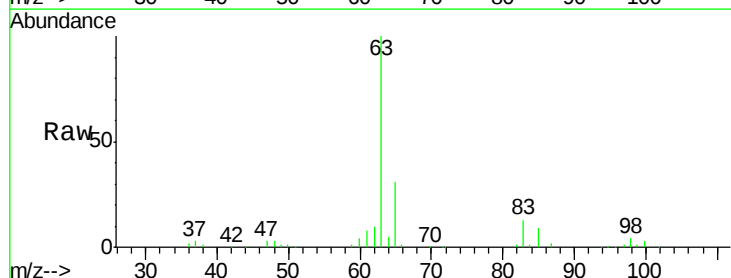
Tgt Ion: 63 Resp: 802166

Ion Ratio Lower Upper

63 100

98 4.1 2.3 6.9

100 2.6 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

300000

250000

200000

150000

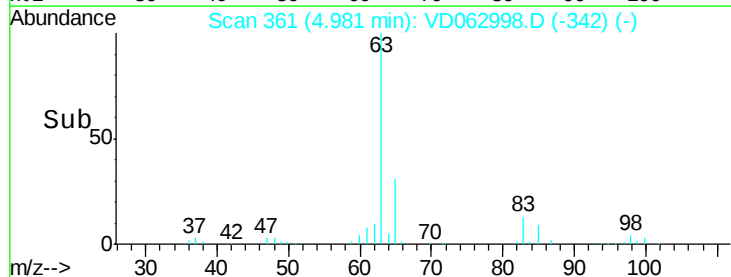
100000

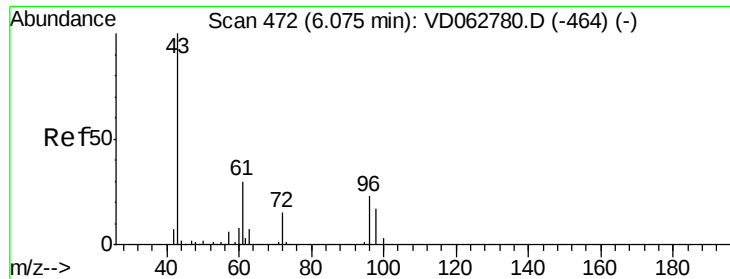
50000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 279.952 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tot Ion: 43 Resp: 549056

Ion Ratio Lower Upper

43 100

72 17.6 11.9 17.9

Instrument :

MSVOA_D

ClientSampleId :

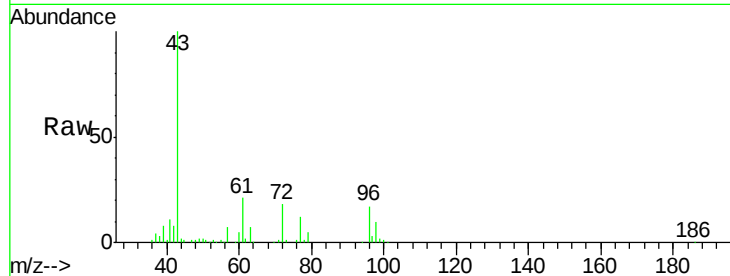
VSTDCCC050EC

Manual Integrations

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MMDadoda

7/3/2019 9:15:48 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.07

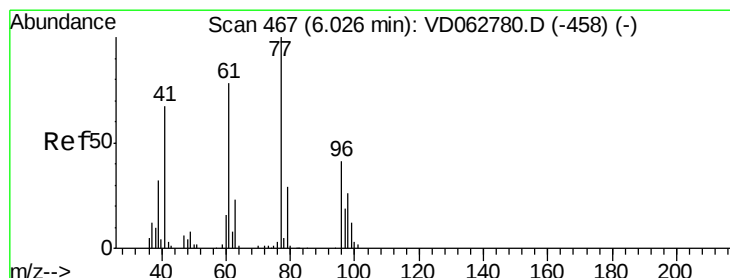
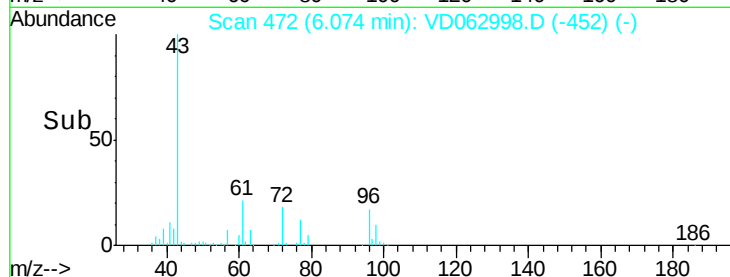
150000

100000

50000

0

Time--> 5.90 6.00 6.10



#26

2,2-Dichloropropane

Concen: 51.988 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.00 min

Lab File: VD062998.D

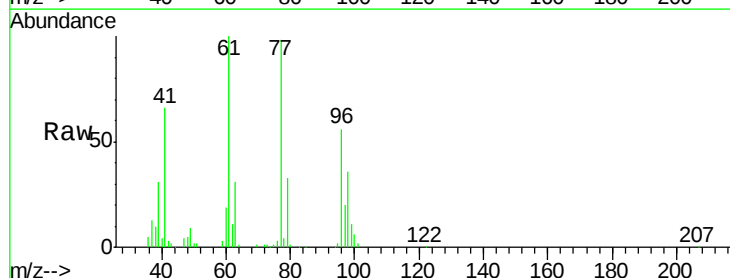
Acq: 1 Jul 2019 18:52

Tgt Ion: 77 Resp: 825413

Ion Ratio Lower Upper

77 100

97 20.0 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

6.02

250000

200000

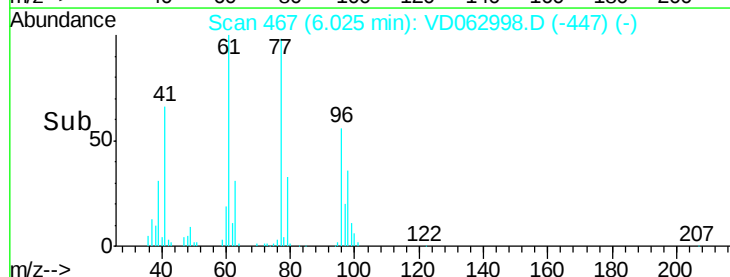
150000

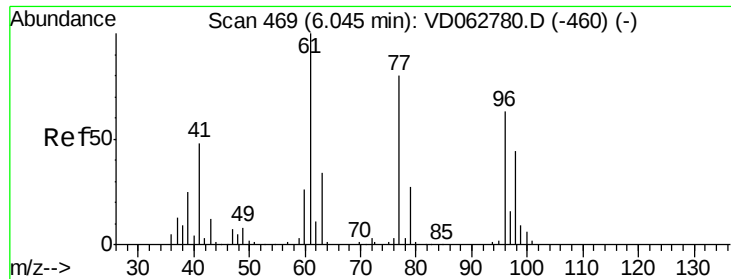
100000

50000

0

Time--> 5.90 6.00 6.10 6.20





#27

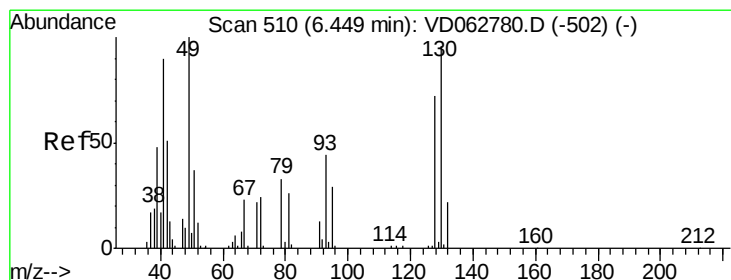
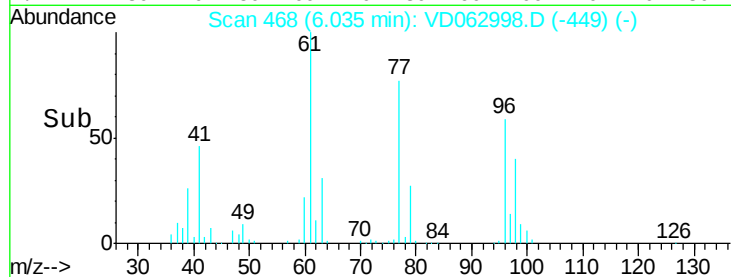
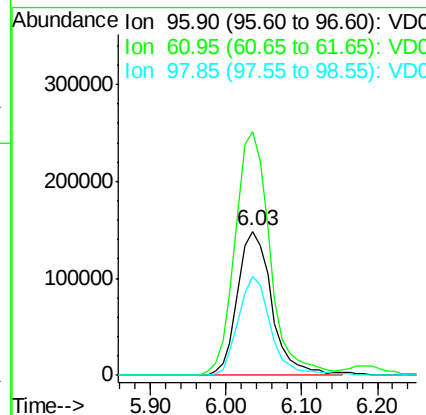
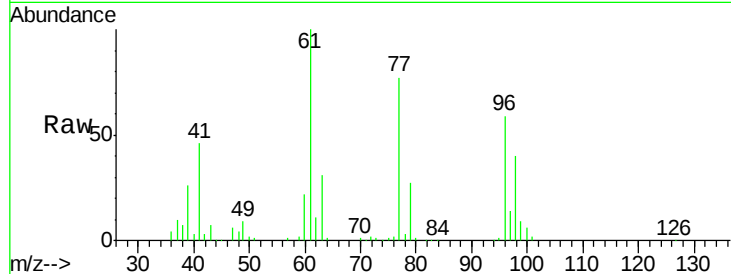
cis-1,2-Dichloroethene
Concen: 54.322 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	169.2	0.0	316.0	
98	68.4	0.0	138.4	

Manual Integrations
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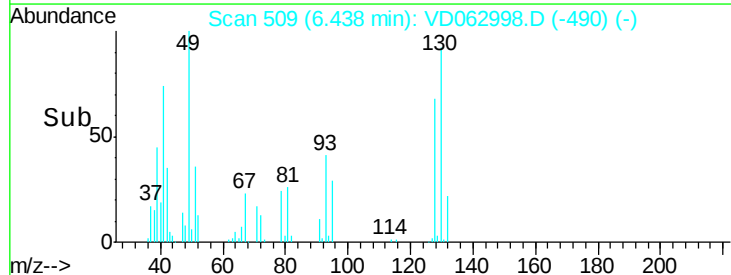
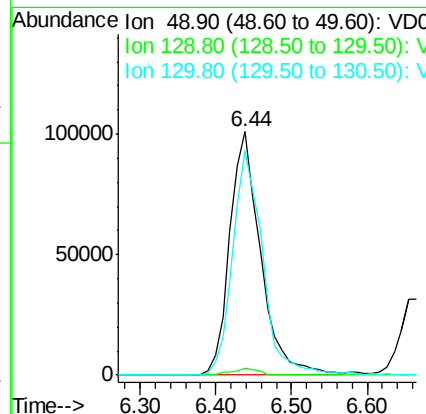
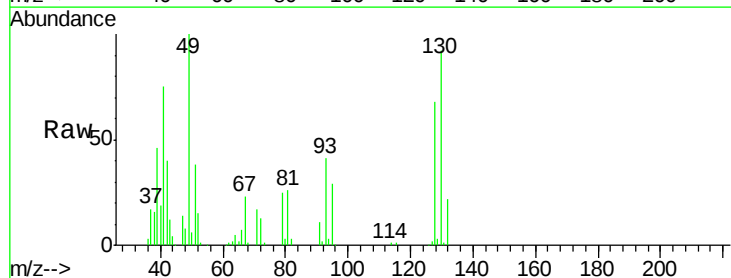
MMDadoda
7/3/2019 9:15:48 AM

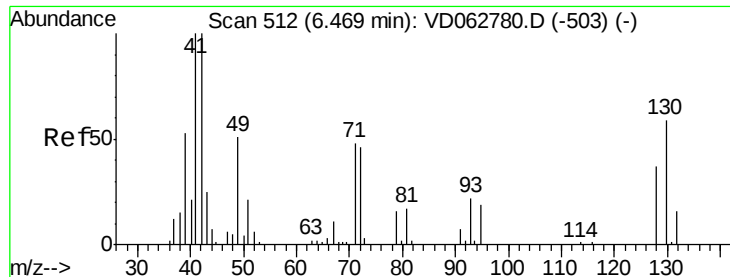


#28

Bromochloromethane
Concen: 54.259 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.6	0.0	5.6	
130	92.2	76.6	114.8	





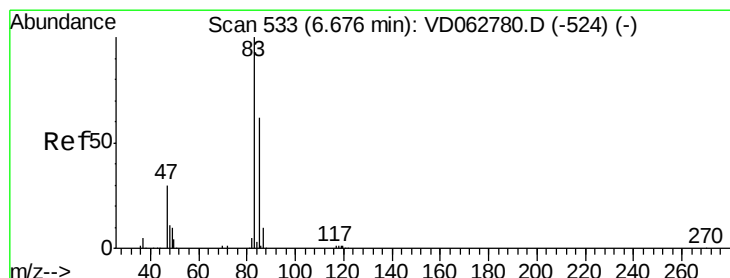
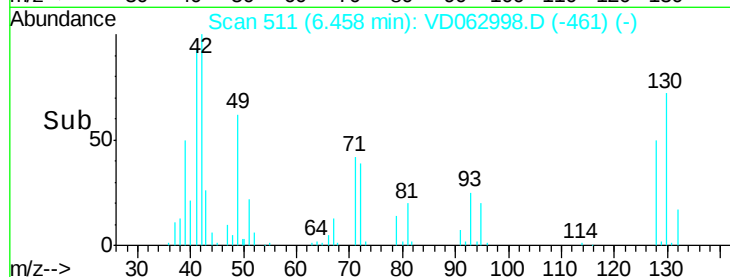
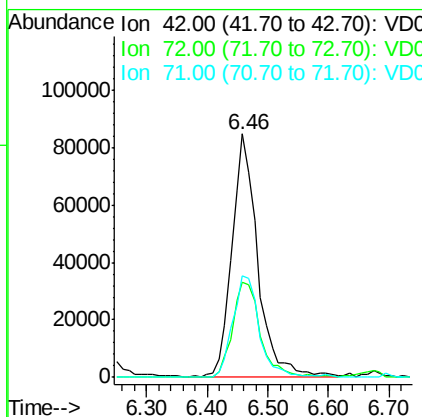
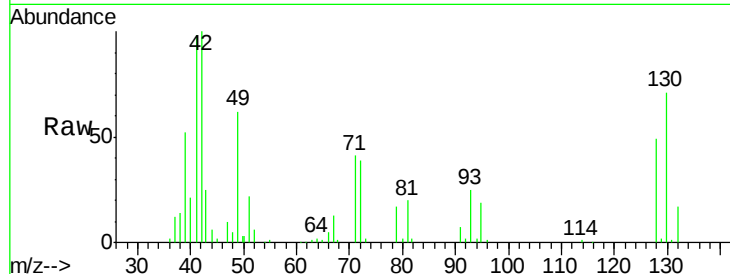
#29
Tetrahydrofuran
Concen: 270.881 ug/l
RT: 6.46 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	35.0	52.6
71	42.5	33.3	49.9

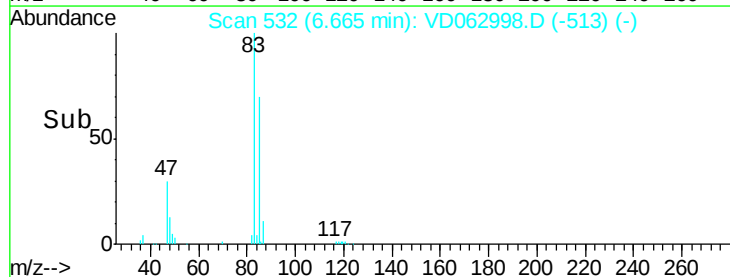
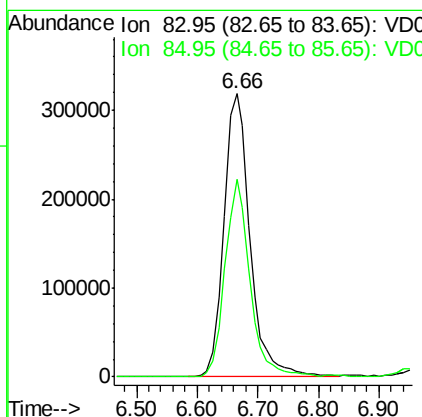
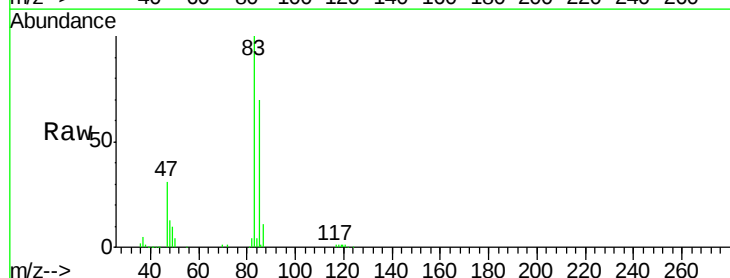
Manual Integrations
APPROVED

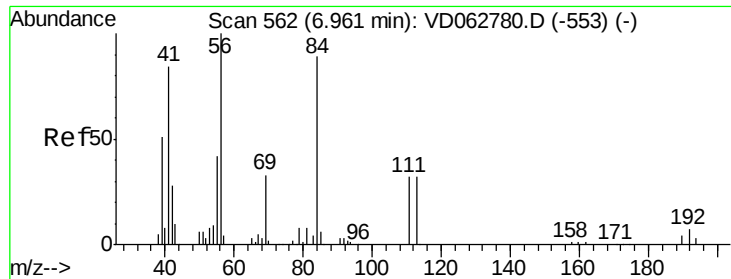
MMDadoda
7/3/2019 9:15:48 AM



#30
Chloroform
Concen: 52.229 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.9	49.8	74.6





#31

Cyclohexane

Concen: 49.918 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

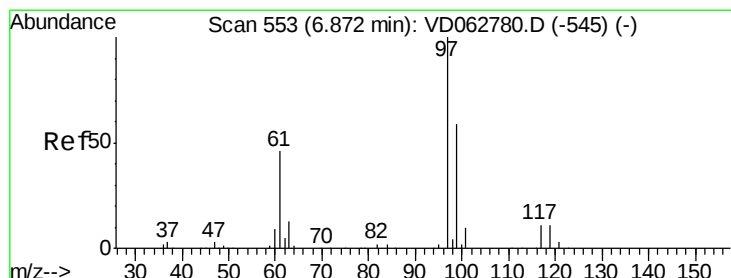
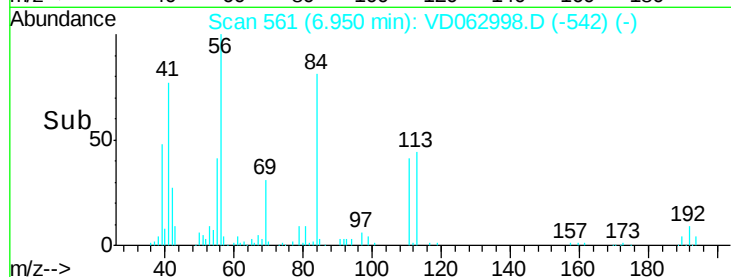
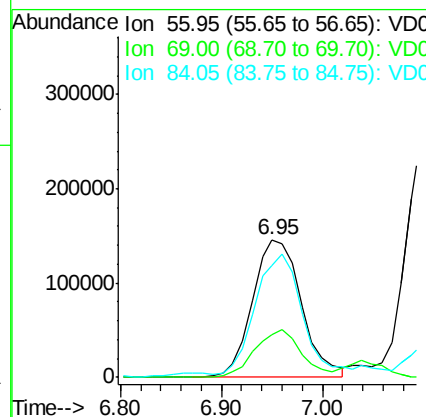
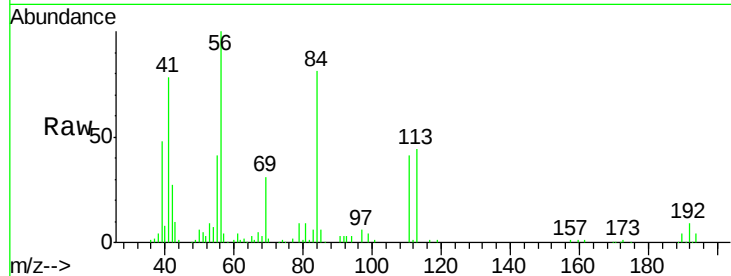
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	491561
Ion Ratio	Lower	Upper	
56	100		
69	30.9	26.6	39.8
84	80.7	75.5	113.3

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 50.231 ug/l

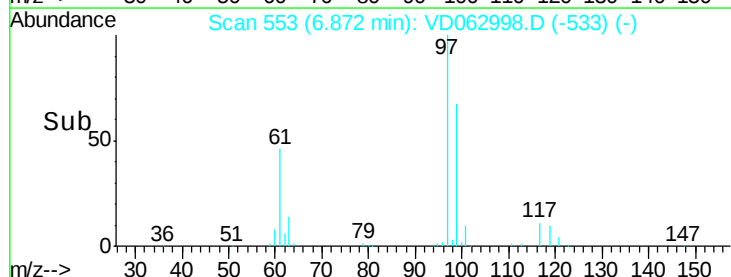
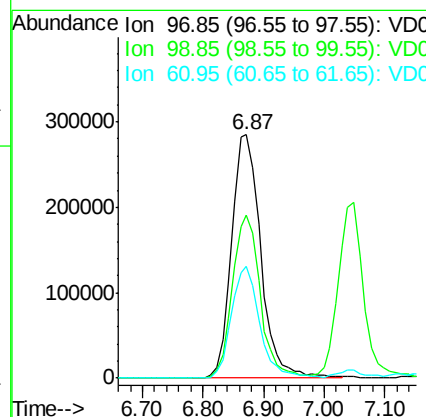
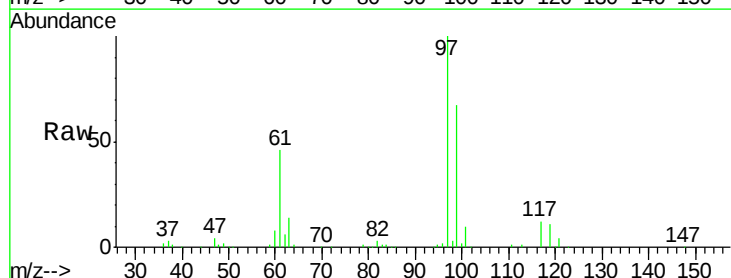
RT: 6.87 min Scan# 553

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	97	Resp:	953096
Ion Ratio	Lower	Upper	
97	100		
99	66.8	47.4	71.2
61	46.0	37.2	55.8





#33

1,2-Dichloroethane-d4

Concen: 45.201 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tot Ion: 65 Resp: 473987

Ion Ratio Lower Upper

65 100

67 43.9 0.0 87.4

Instrument :

MSVOA_D

ClientSampleId :

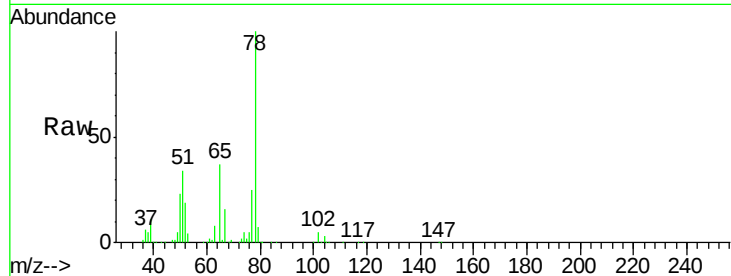
VSTDCCC050EC

Manual Integrations

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7/3/2019 9:15:48 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

200000

150000

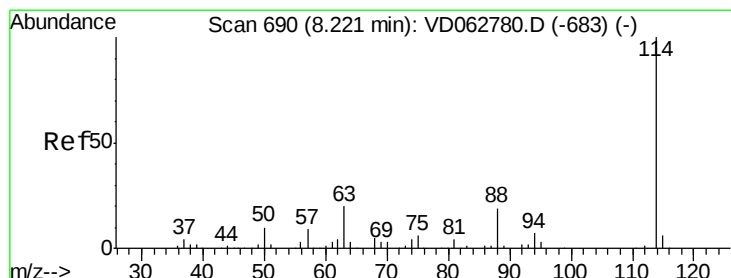
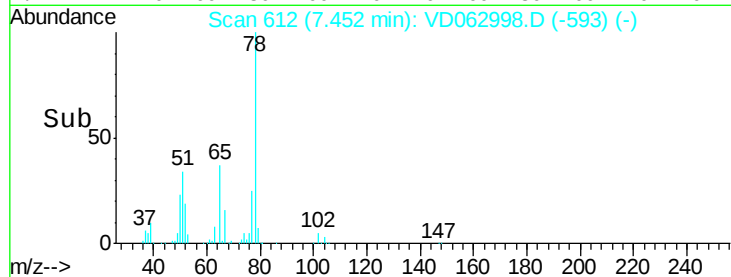
100000

50000

0

7.40 7.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

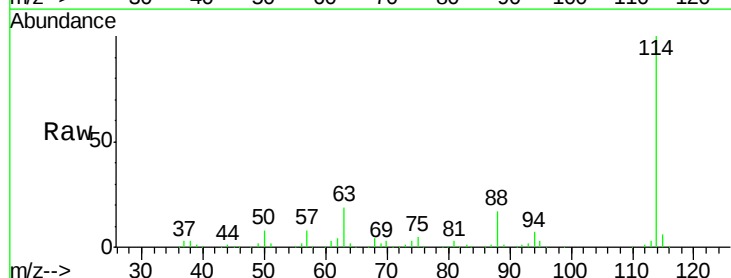
Tgt Ion:114 Resp: 1362477

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.0

88 17.3 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

600000

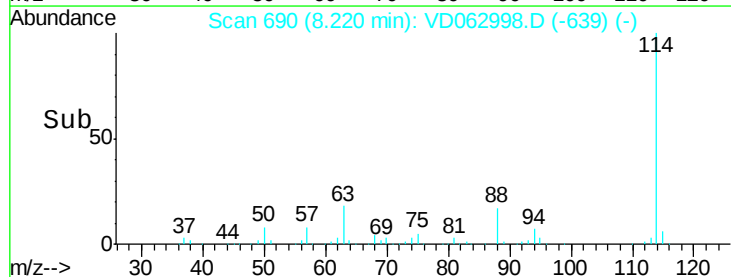
400000

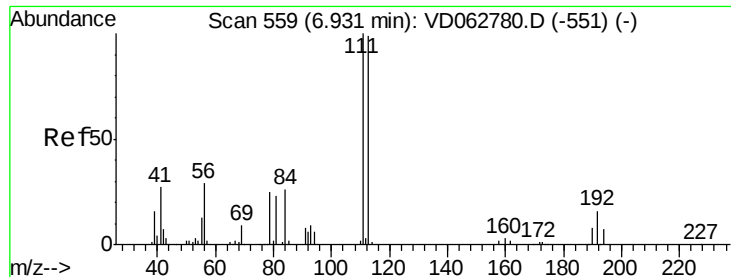
200000

0

8.20 8.40

Time-->





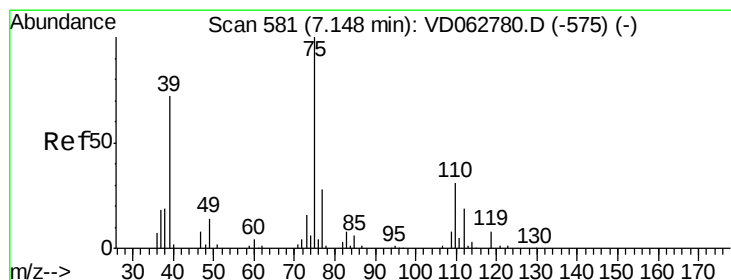
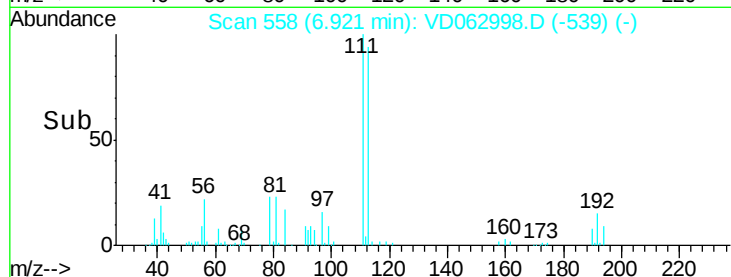
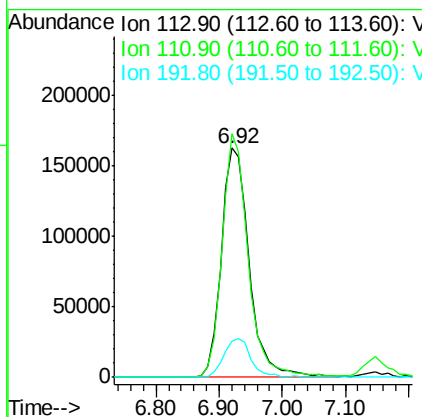
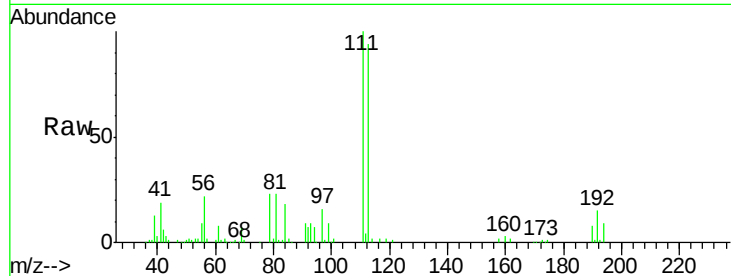
#35
 Dibromofluoromethane
 Concen: 43.423 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	498861		
111	106.2	81.2	121.8	
192	15.9	12.9	19.3	

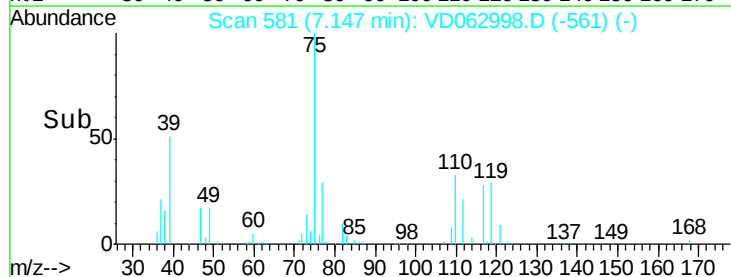
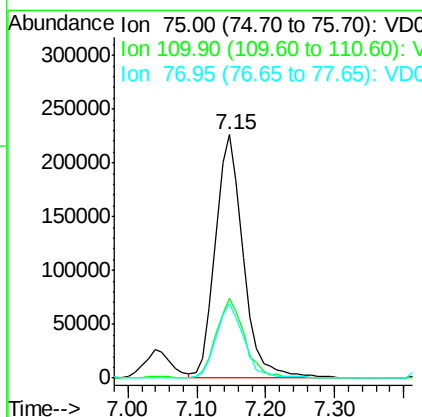
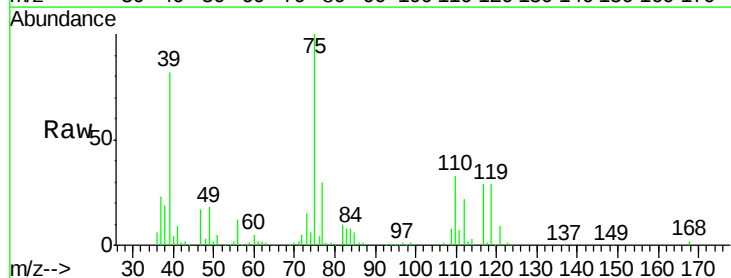
Manual Integrations
 APPROVED

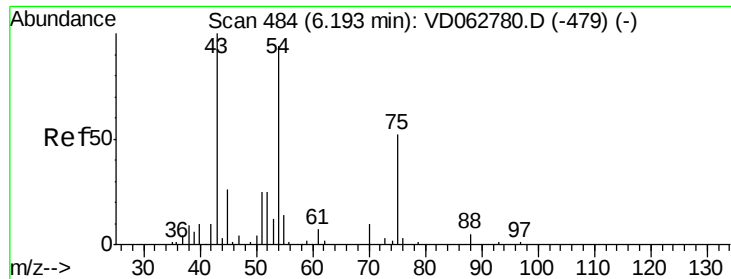
MMDadoda
 7/3/2019 9:15:48 AM



#36
 1,1-Dichloropropene
 Concen: 48.920 ug/l
 RT: 7.15 min Scan# 581
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	630960		
110	32.9	15.0	45.1	
77	30.5	22.2	33.2	





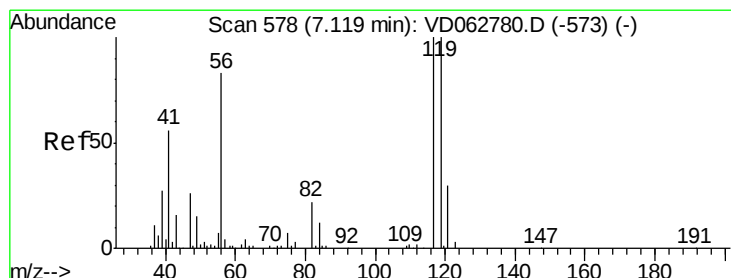
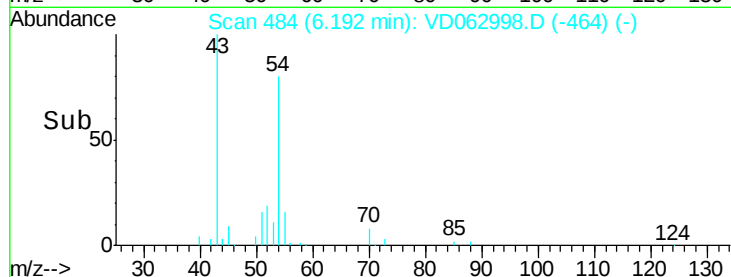
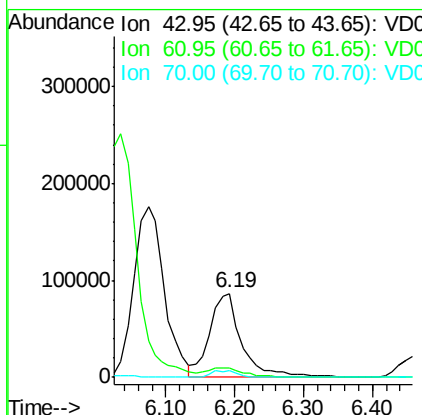
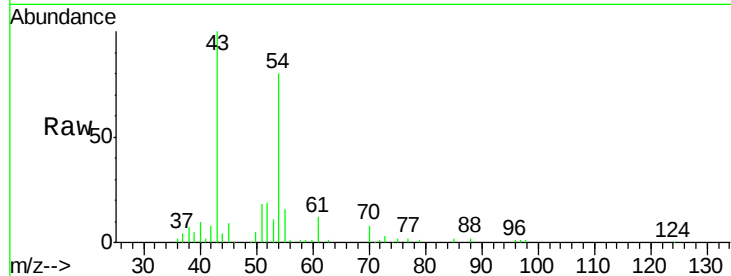
#37
Ethyl Acetate
Concen: 49.529 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.9	11.6	17.4
70	8.1	6.4	9.6

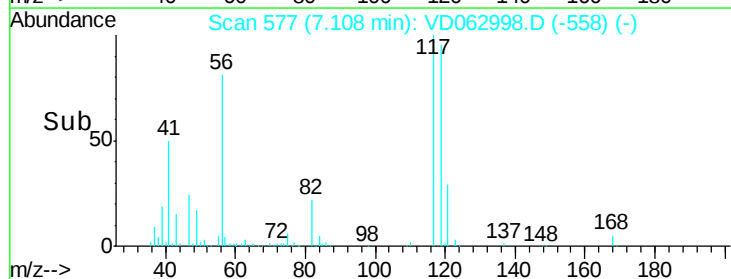
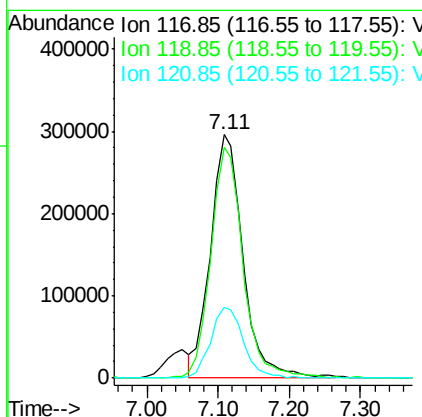
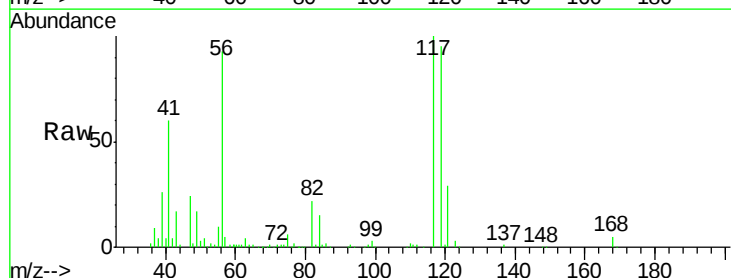
Manual Integrations
APPROVED

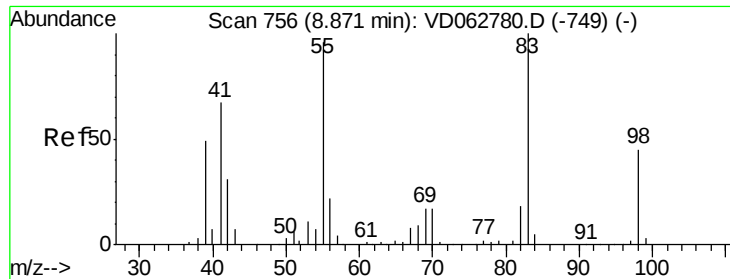
MMDadoda
7/3/2019 9:15:48 AM



#38
Carbon Tetrachloride
Concen: 48.600 ug/l m
RT: 7.11 min Scan# 577
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.4	113.2
121	29.0	22.3	33.5





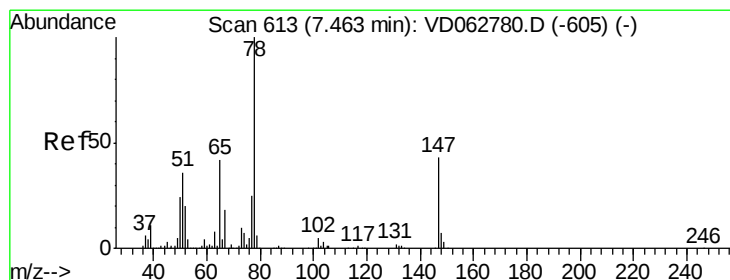
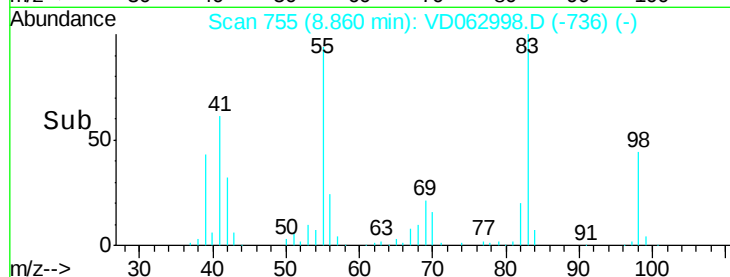
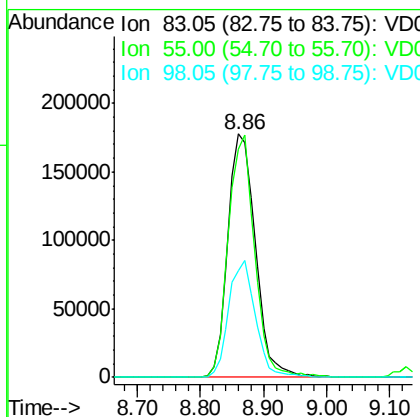
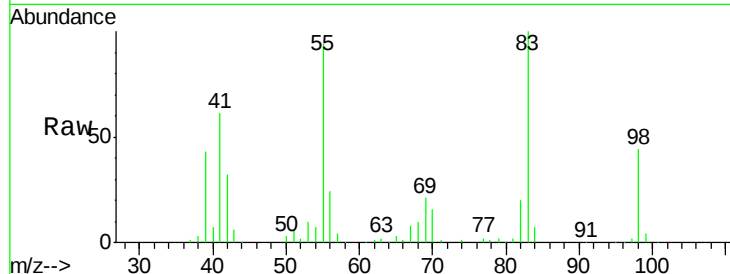
#39
Methvlcvclohexane
Concen: 47.486 ug/l
RT: 8.86 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	83.05	Resp	539114
Ion Ratio	Lower	Upper	
83	100		
55	93.6	76.6	115.0
98	43.7	35.7	53.5

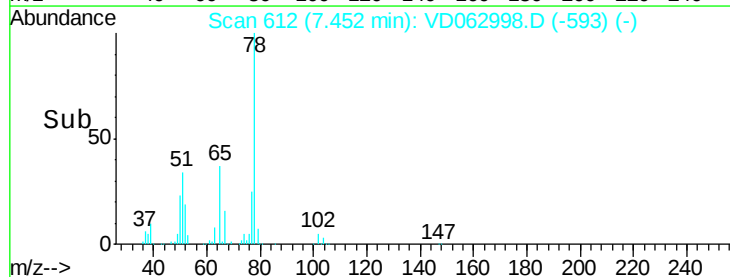
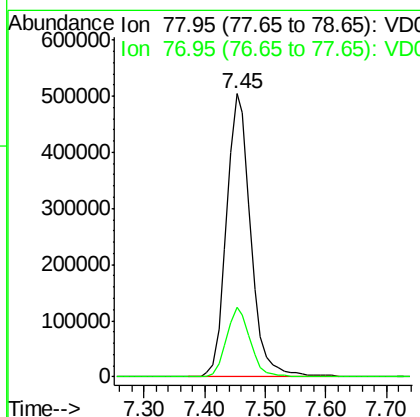
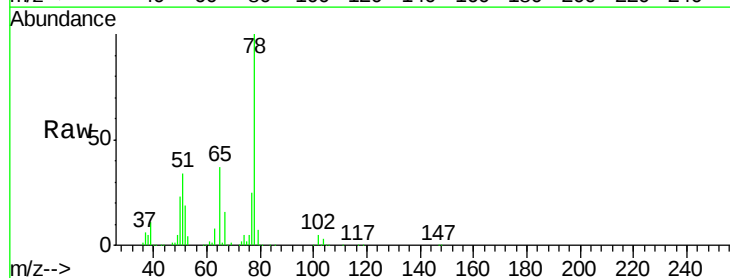
Manual Integrations
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7/3/2019 9:15:48 AM



#40
Benzene
Concen: 54.146 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	78	Resp	1401817
Ion Ratio	Lower	Upper	
78	100		
77	24.7	20.2	30.2





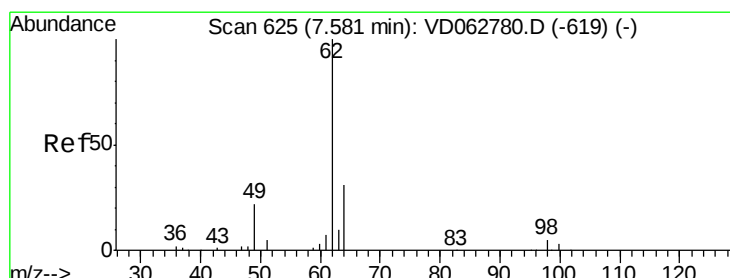
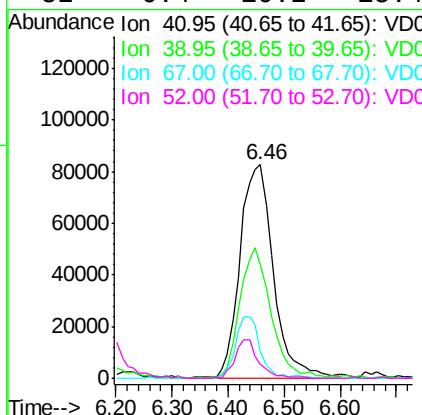
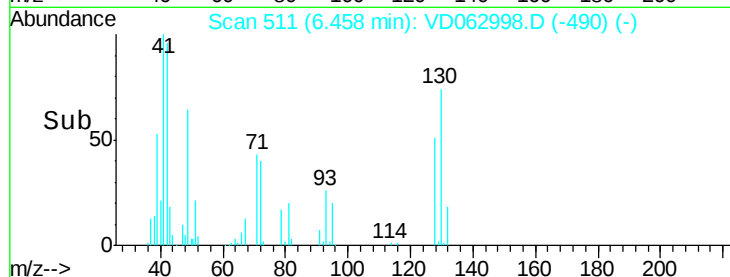
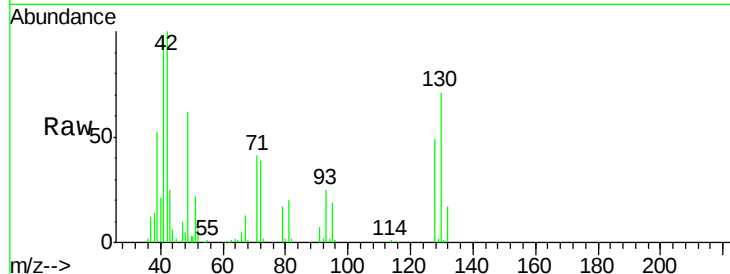
#41
Methacrylonitrile
Concen: 50.253 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.6	43.2	64.8
67	12.9	19.9	29.9#
52	6.4	10.2	15.4#

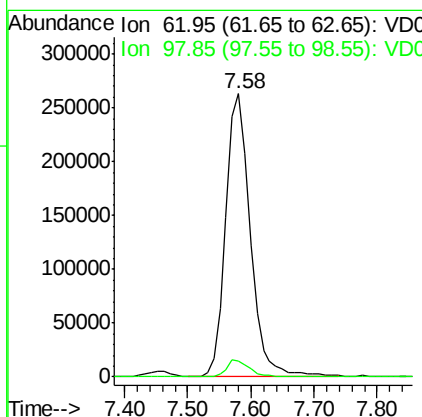
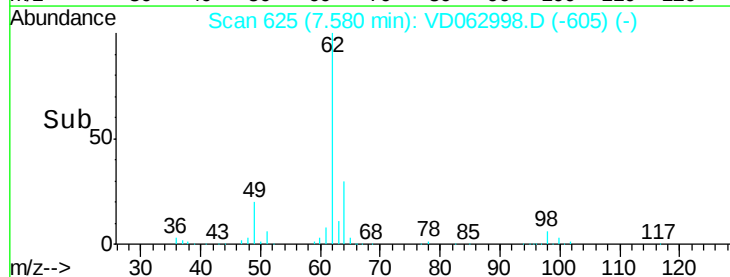
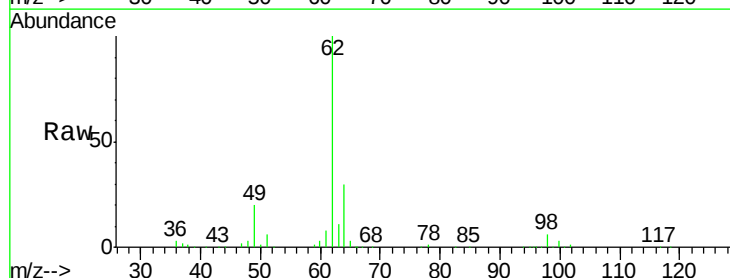
Manual Integrations
APPROVED

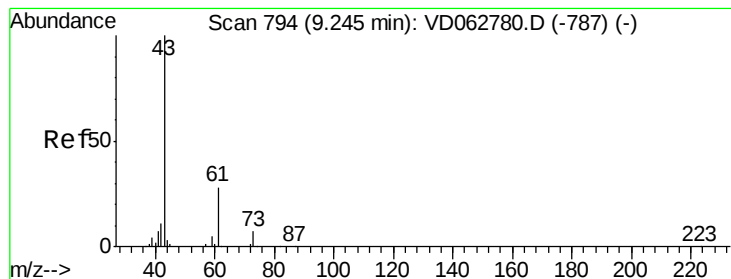
MMDadoda
7/3/2019 9:15:48 AM



#42
1,2-Dichloroethane
Concen: 50.089 ug/l
RT: 7.58 min Scan# 625
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	10.0





#43

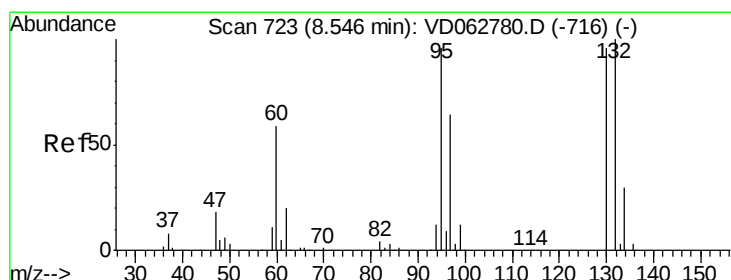
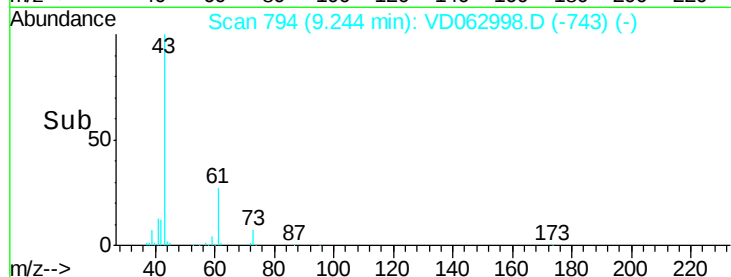
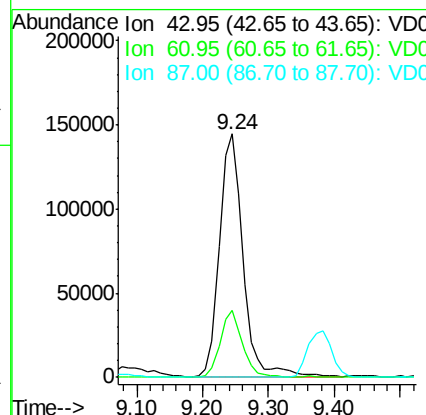
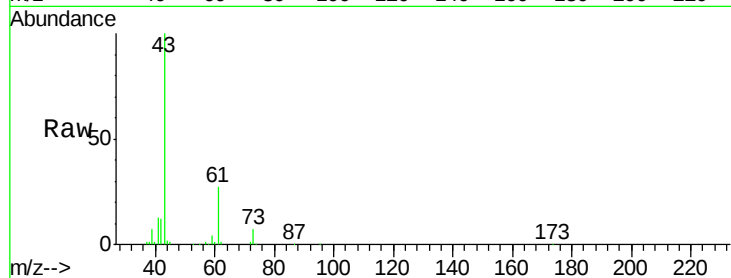
Isopropyl Acetate
 Concen: 52.655 ug/l
 RT: 9.24 min Scan# 794
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.5	22.4	33.6
87	0.4	0.3	0.5

Manual Integrations
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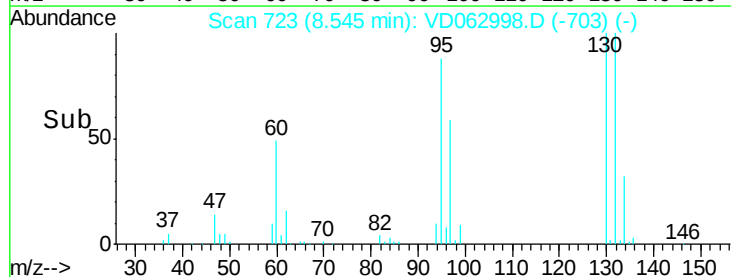
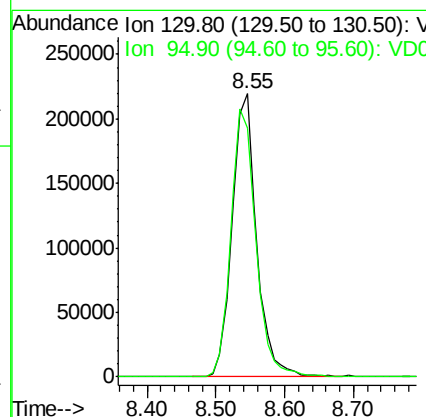
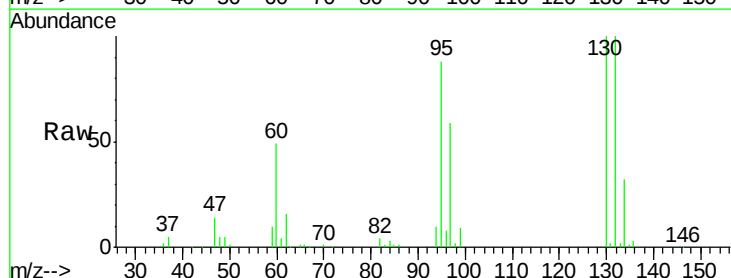
MMDadoda
 7/3/2019 9:15:48 AM



#44

Trichloroethene
 Concen: 53.053 ug/l
 RT: 8.55 min Scan# 723
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	87.9	0.0	201.6





#45

1,2-Dichloropropane

Concen: 50.827 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 327207

Ion Ratio Lower Upper

63 100

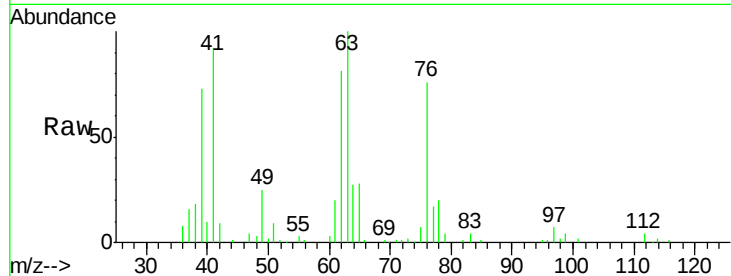
65 28.2 24.2 36.2

Manual Integrations

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

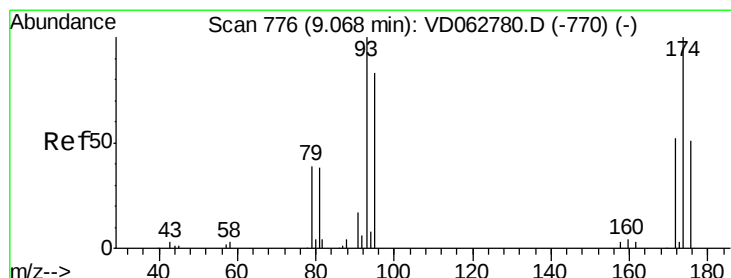
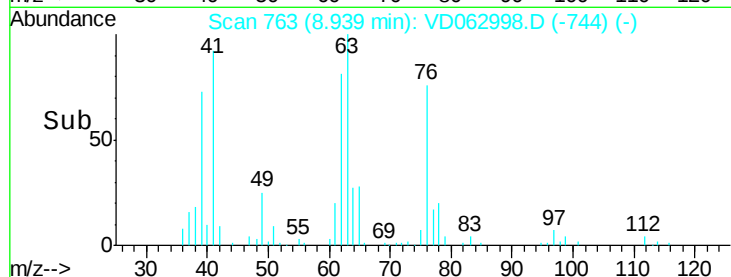
8.94

100000

50000

0

Time--> 8.80 8.90 9.00 9.10



#46

Dibromomethane

Concen: 51.206 ug/l

RT: 9.06 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

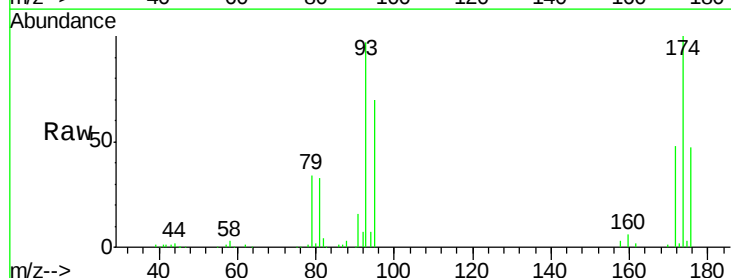
Tgt Ion: 93 Resp: 283172

Ion Ratio Lower Upper

93 100

95 72.8 66.6 100.0

174 103.4 79.7 119.5



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

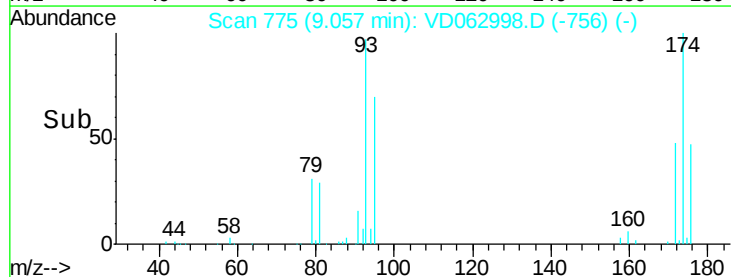
150000

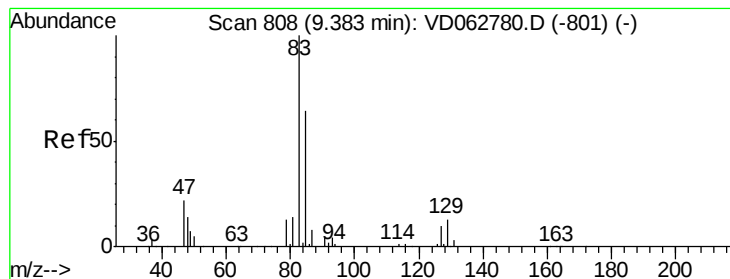
100000

50000

0

Time--> 8.90 9.00 9.10 9.20





#47

Bromodichloromethane

Concen: 50.189 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

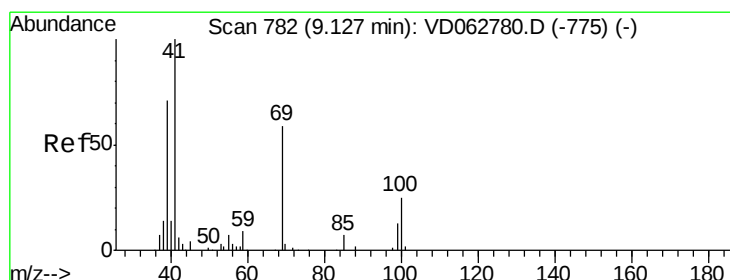
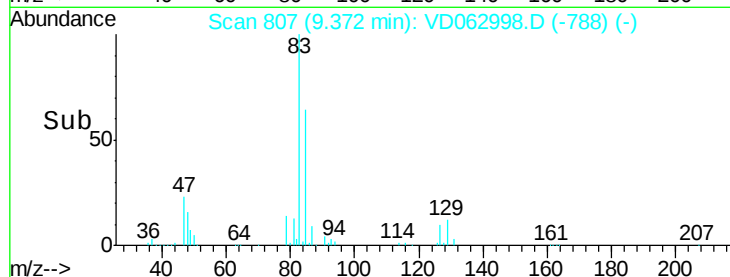
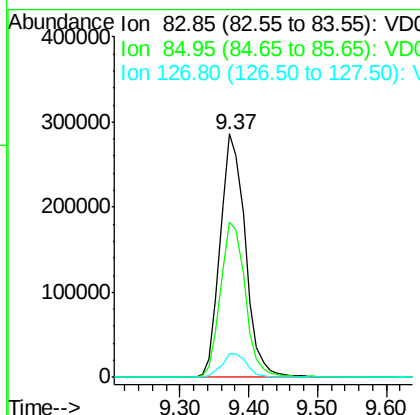
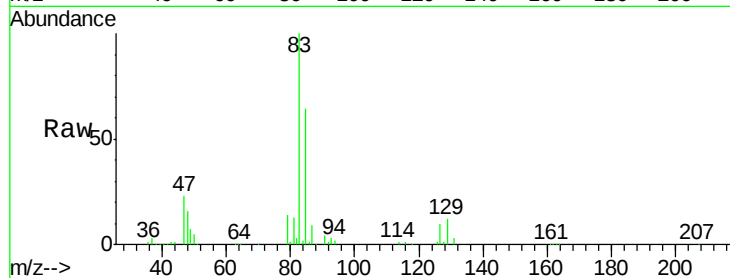
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	720817
Ion Ratio	Lower	Upper	
83	100		
85	63.7	51.6	77.4
127	9.6	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.873 ug/l

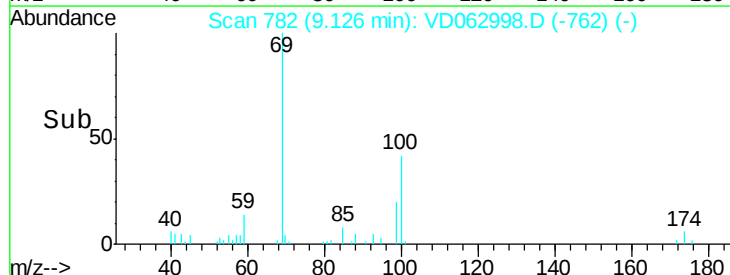
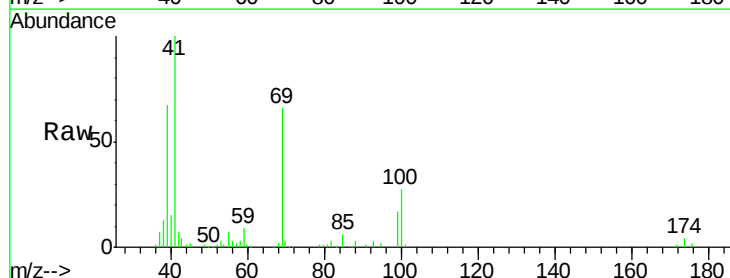
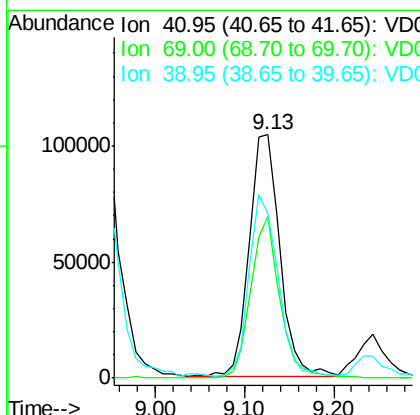
RT: 9.13 min Scan# 782

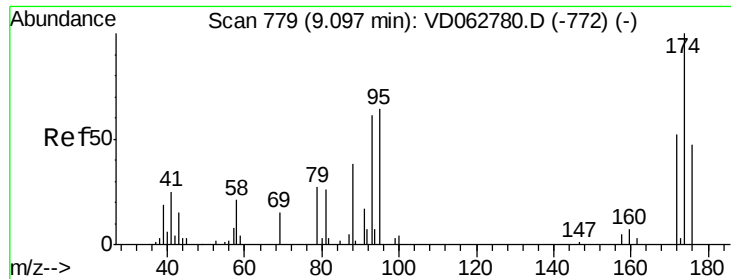
Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	41	Resp:	244452
Ion Ratio	Lower	Upper	
41	100		
69	66.3	47.2	70.8
39	67.3	57.4	86.2





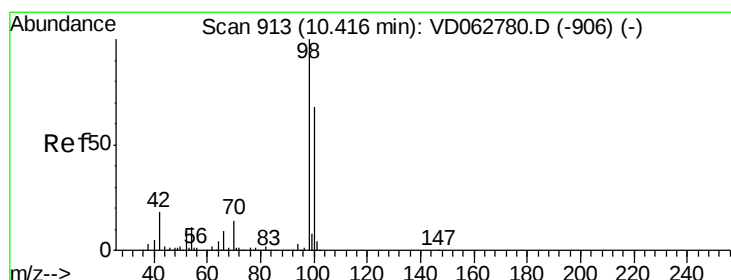
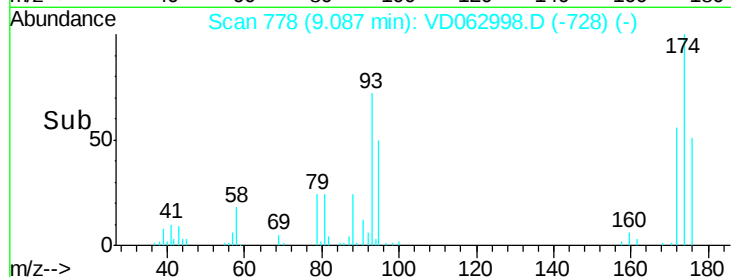
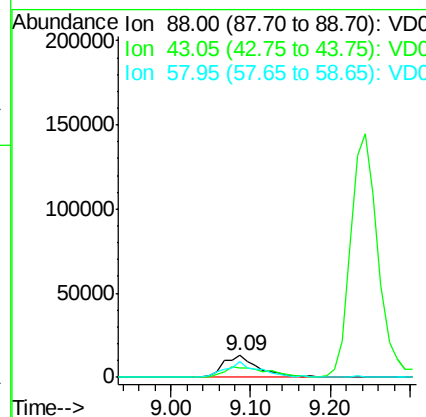
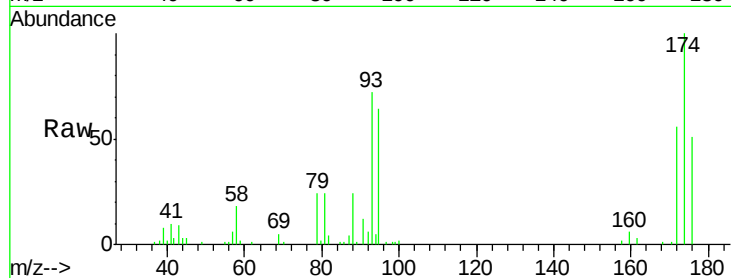
#49
1,4-Dioxane
Concen: 1004.815 ug/l
RT: 9.09 min Scan# 778
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.2	32.1	48.1
58	75.0	44.1	66.1

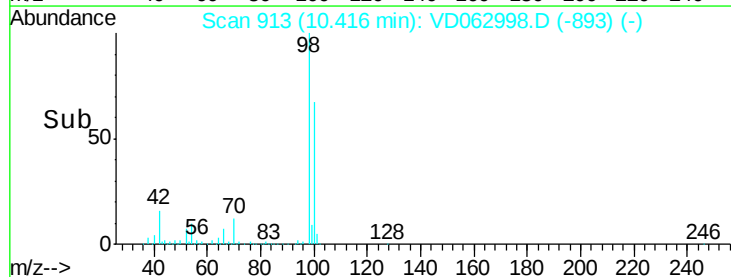
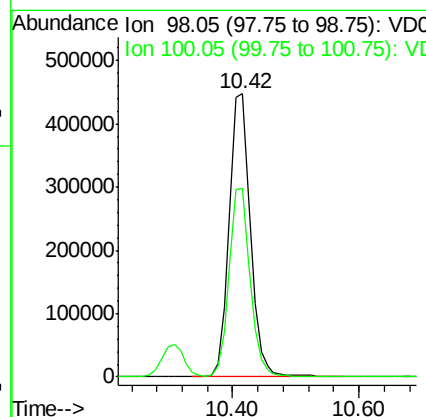
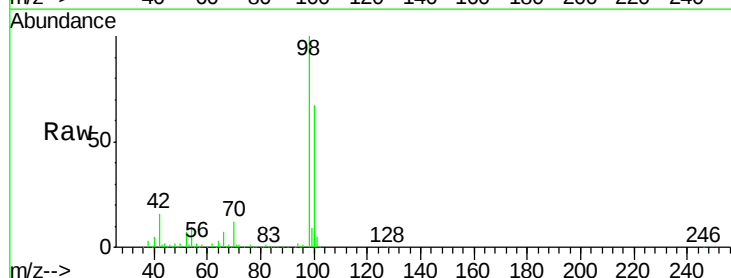
Manual Integrations
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#50
Toluene-d8
Concen: 41.715 ug/l
RT: 10.42 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.8	54.7	82.1





#51

4-Methyl-2-Pentanone

Concen: 252.236 ug/l

RT: 10.31 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1209250

Ion Ratio Lower Upper

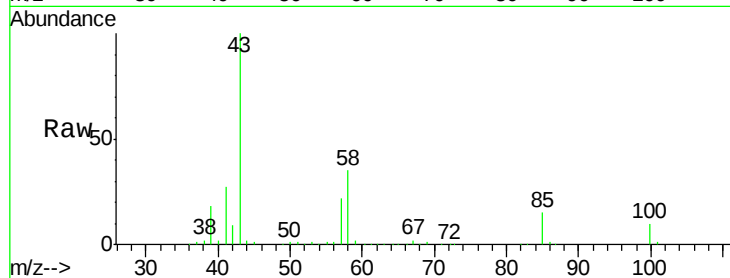
43 100

58 34.8 26.6 40.0

Manual Integrations
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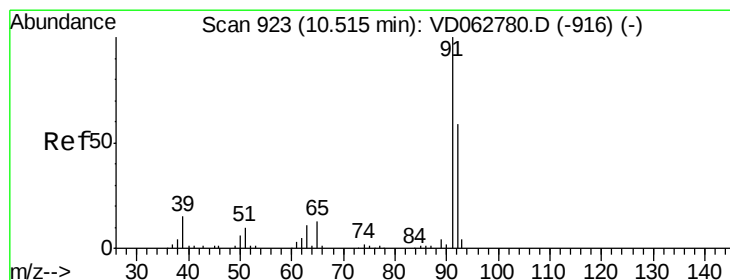
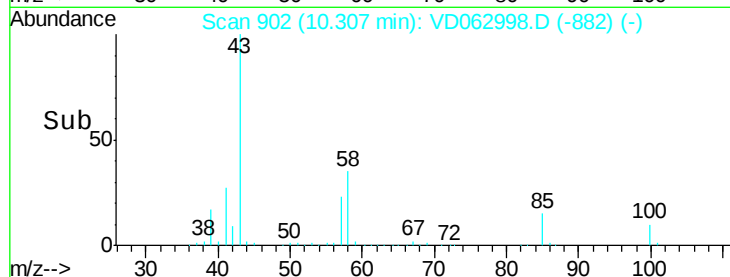
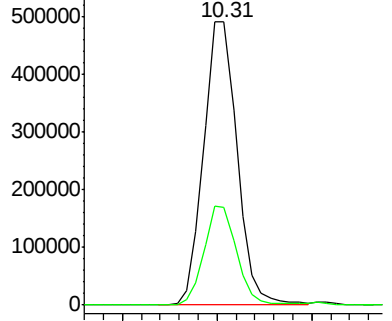
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 51.180 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062998.D

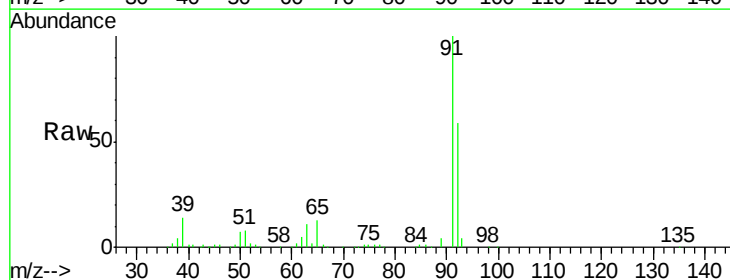
Acq: 1 Jul 2019 18:52

Tgt Ion: 92 Resp: 890690

Ion Ratio Lower Upper

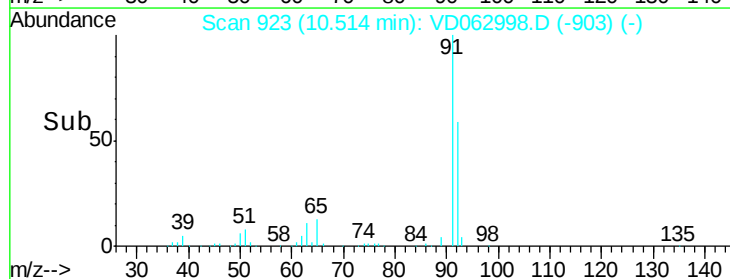
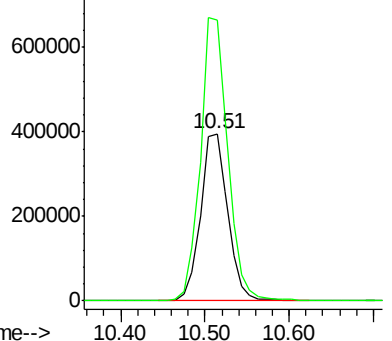
92 100

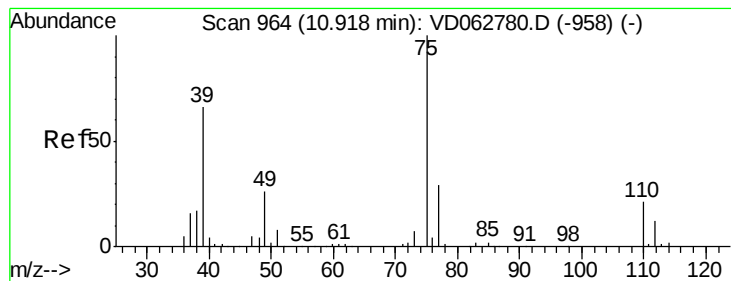
91 168.4 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 52.814 ug/l

RT: 10.91 min Scan# 963

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tot Ion: 75 Resp: 620842

Ion Ratio Lower Upper

75 100

77 30.6 23.2 34.8

Instrument :

MSVOA_D

ClientSampleId :

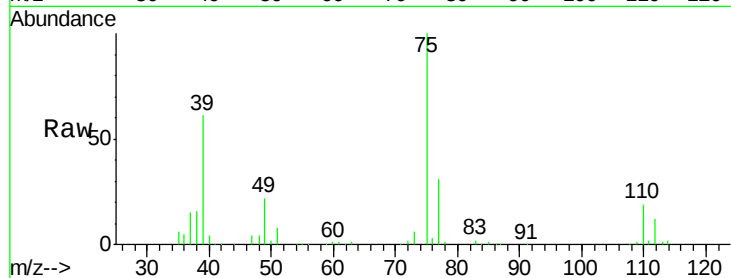
VSTDCCC050EC

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.91

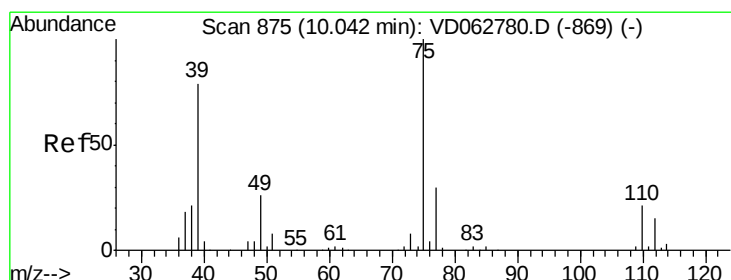
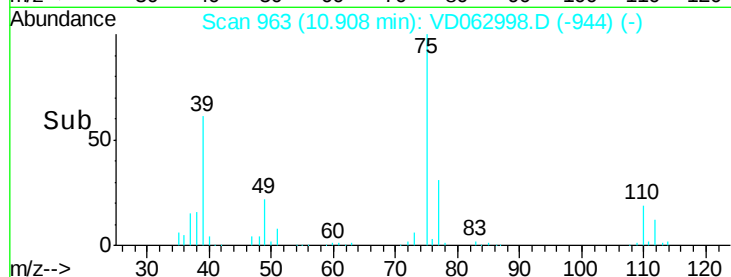
300000

200000

100000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 52.595 ug/l

RT: 10.04 min Scan# 875

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

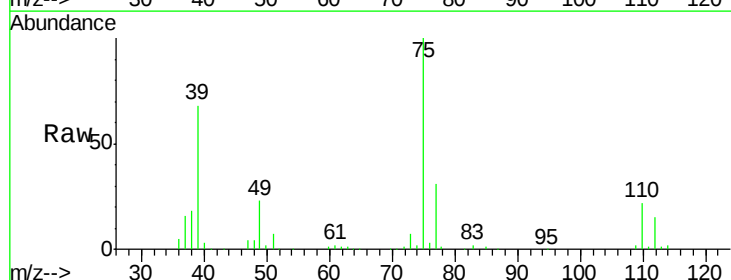
Tgt Ion: 75 Resp: 671998

Ion Ratio Lower Upper

75 100

77 30.9 24.2 36.2

39 68.2 63.5 95.3



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

10.04

400000

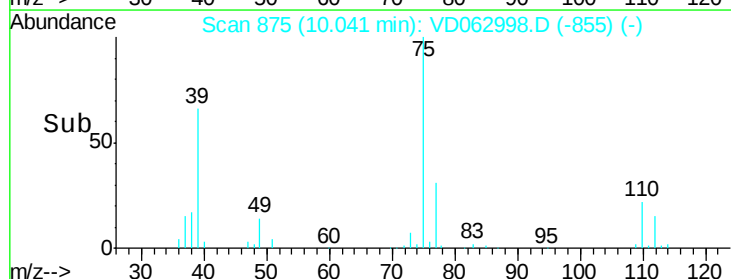
300000

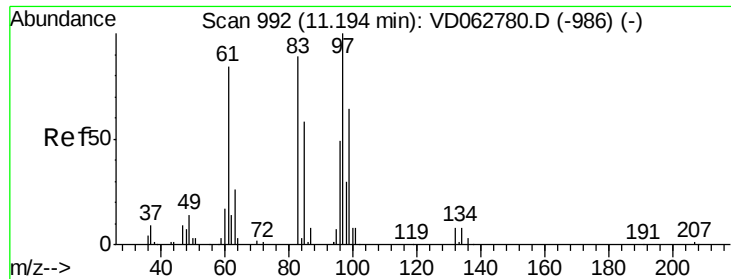
200000

100000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 51.480 ug/l

RT: 11.19 min Scan# 992

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tot Ion:	97	Resp:	307801
Ion	Ratio	Lower	Upper
97	100		
83	81.7	71.0	106.4
85	54.4	46.6	69.8
99	60.9	51.4	77.0

Instrument :

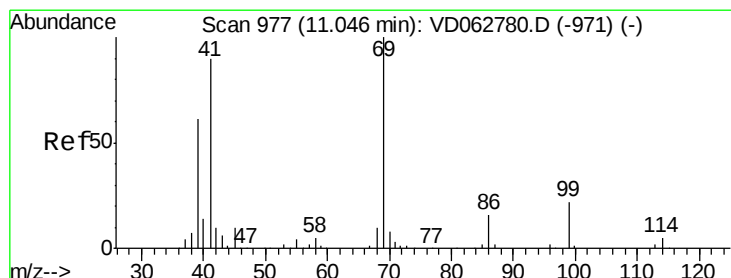
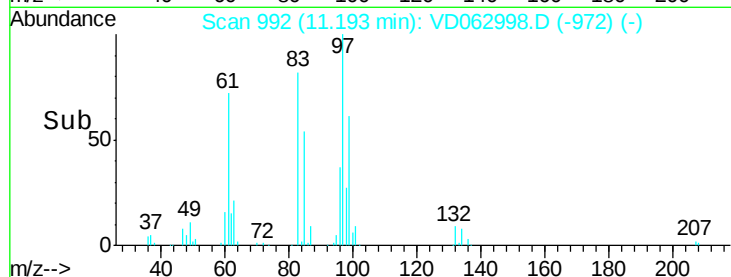
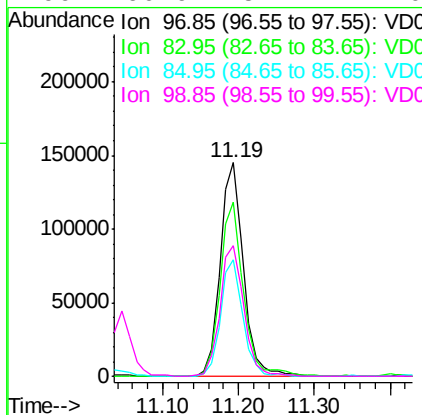
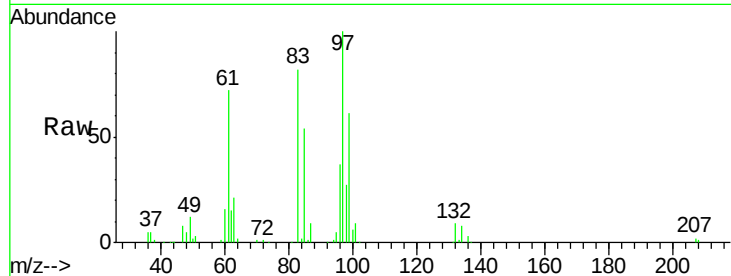
MSVOA_D

ClientSampleId :

VSTDCCC050EC

Manual Integrations
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#56

Ethyl methacrylate

Concen: 53.157 ug/l

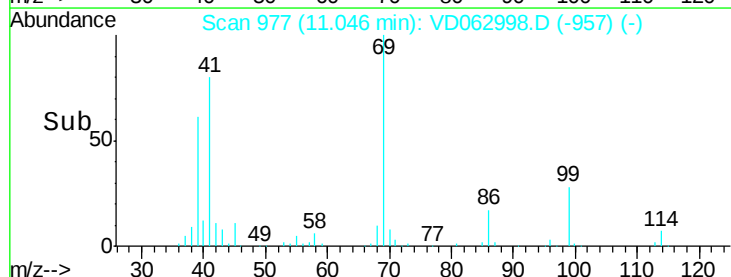
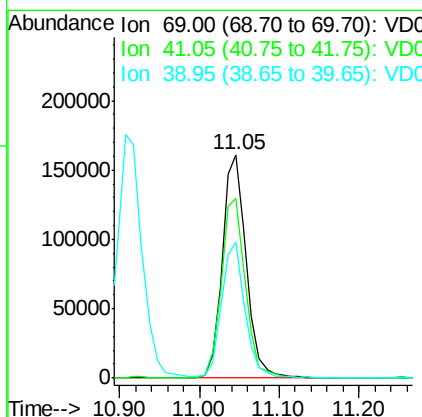
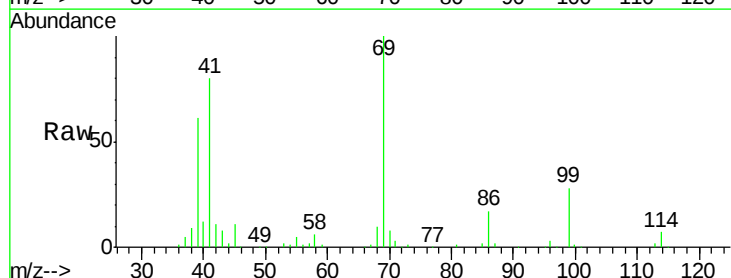
RT: 11.05 min Scan# 977

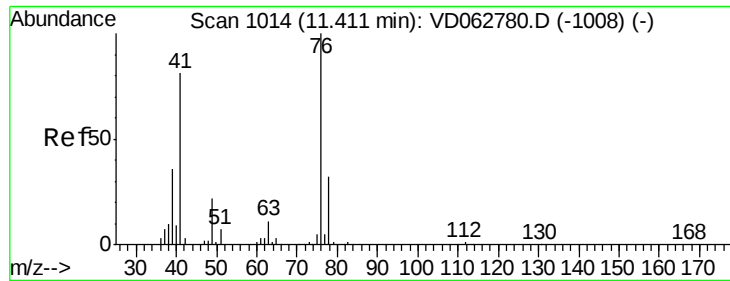
Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	69	Resp:	339660
Ion	Ratio	Lower	Upper
69	100		
41	80.4	72.0	108.0
39	61.1	49.5	74.3





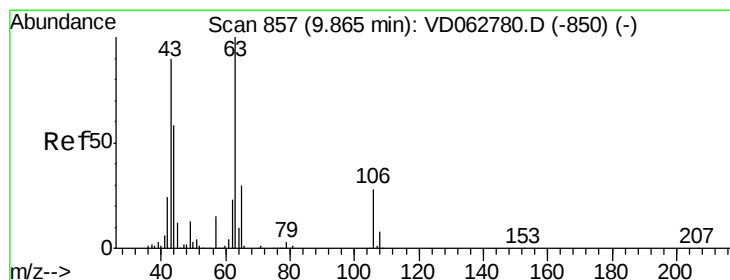
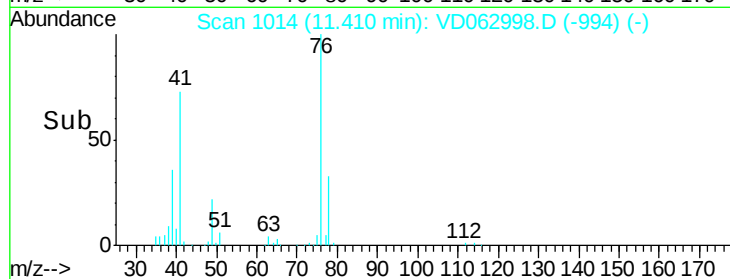
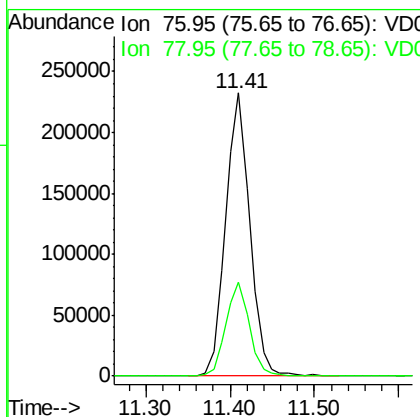
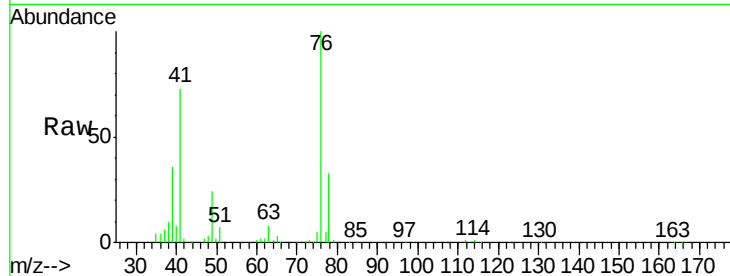
#57
 1,3-Dichloropropane
 Concen: 50.534 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 462637
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.4 38.0

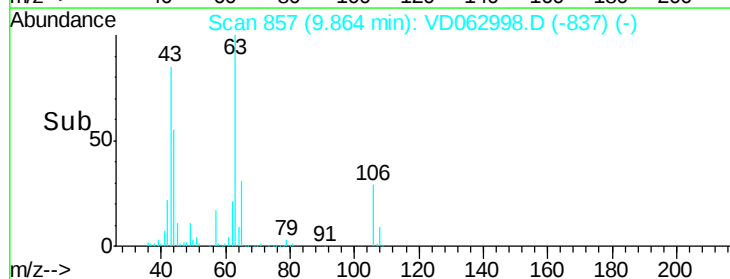
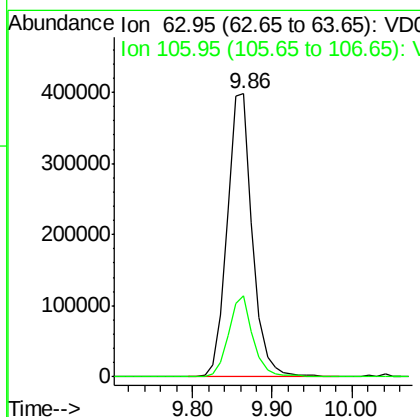
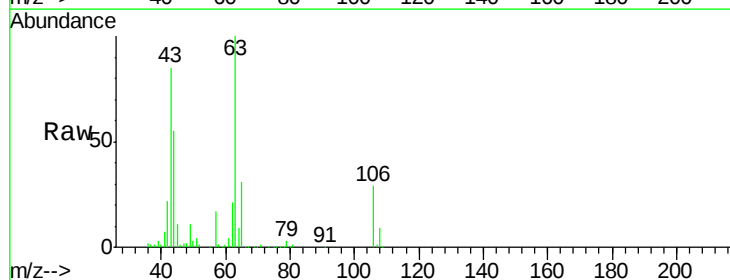
Manual Integrations
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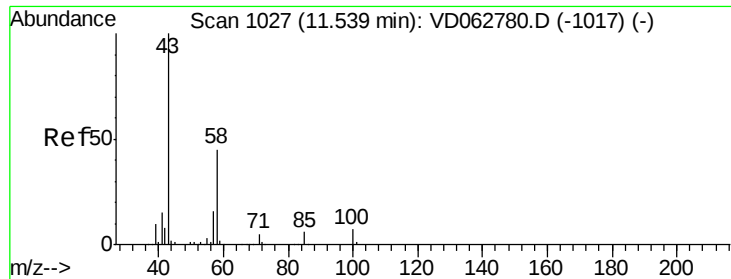
MMDadoda
 7/3/2019 9:15:48 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 269.022 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion: 63 Resp: 882499
 Ion Ratio Lower Upper
 63 100
 106 28.6 22.1 33.1





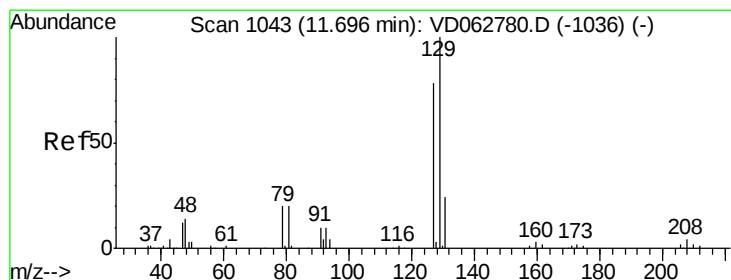
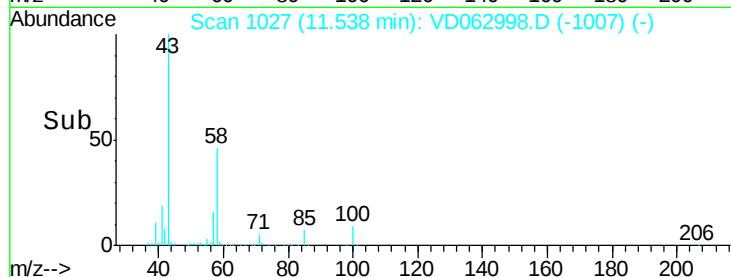
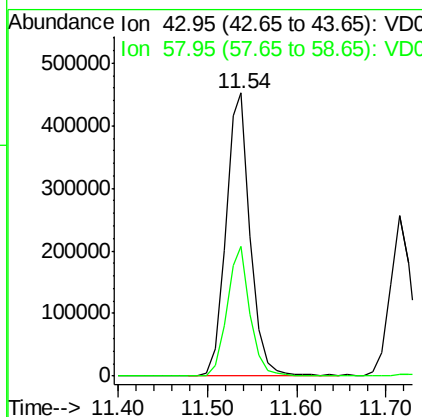
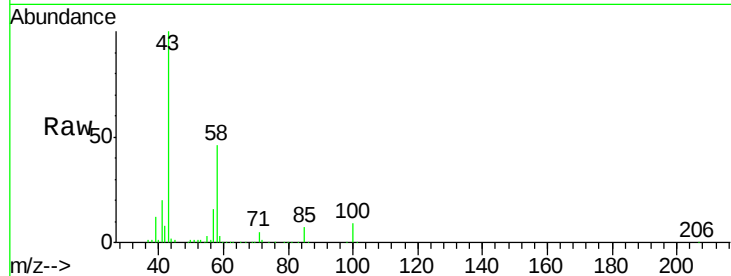
#59
2-Hexanone
Concen: 253.264 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 864726
Ion Ratio Lower Upper
43 100
58 45.7 22.4 67.2

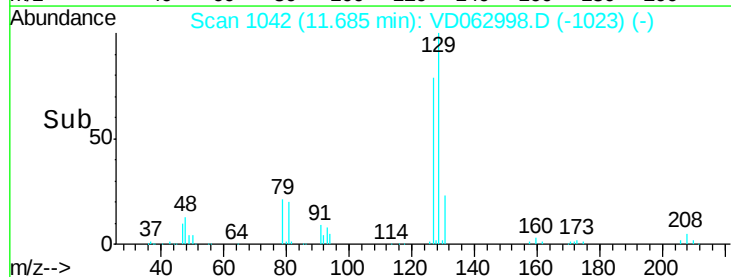
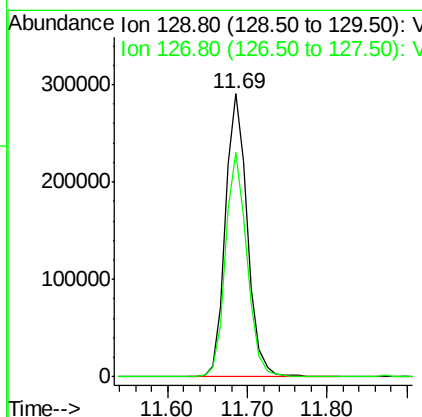
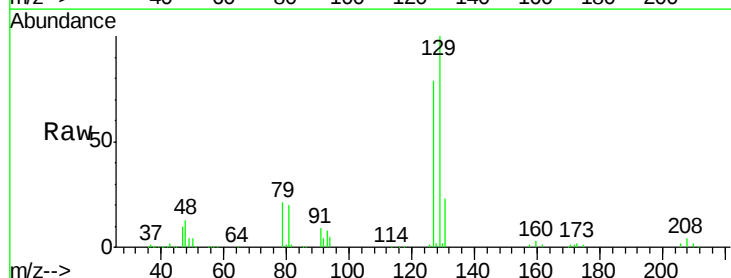
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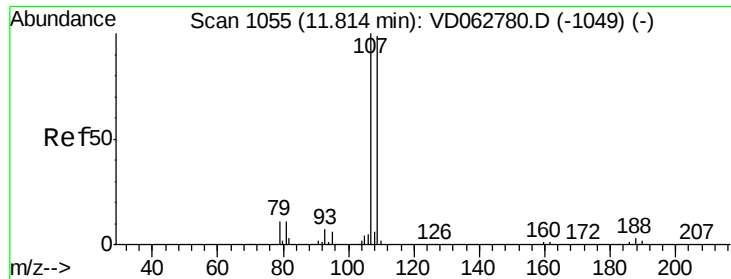
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#60
Dibromochloromethane
Concen: 50.571 ug/l
RT: 11.69 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion: 129 Resp: 563198
Ion Ratio Lower Upper
129 100
127 79.3 38.9 116.6





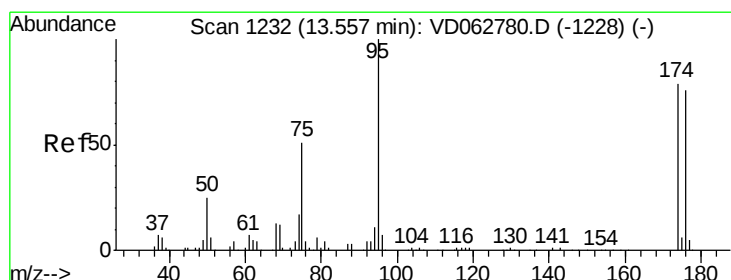
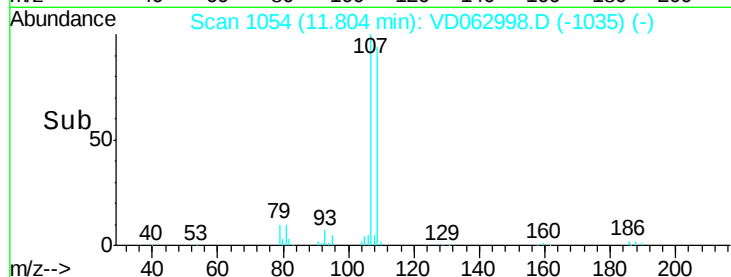
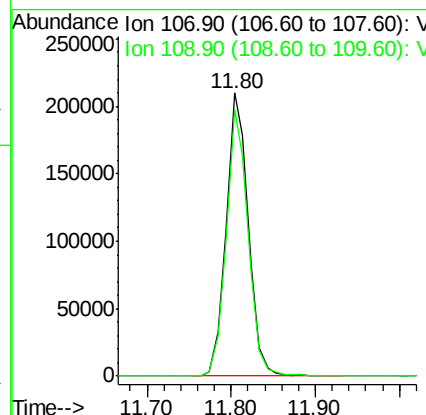
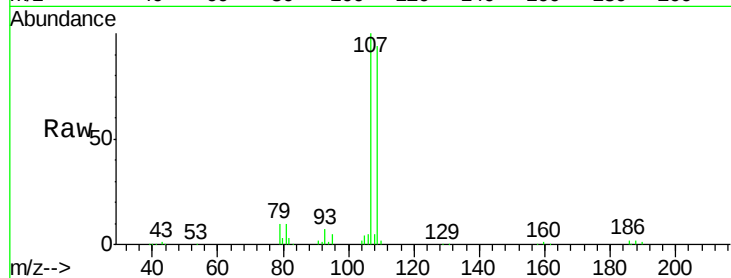
#61
 1,2-Dibromoethane
 Concen: 53.936 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	79.3	118.9

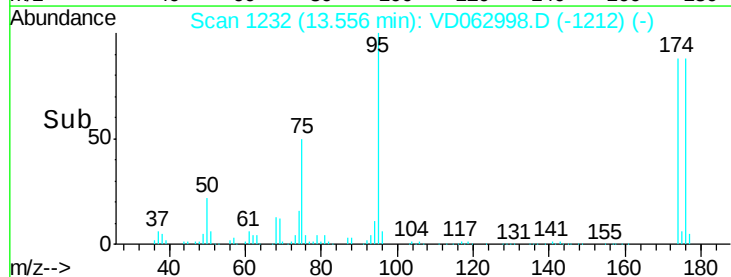
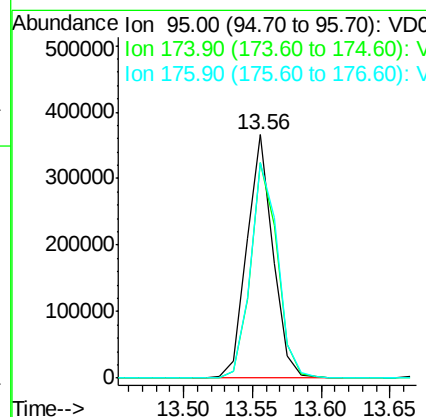
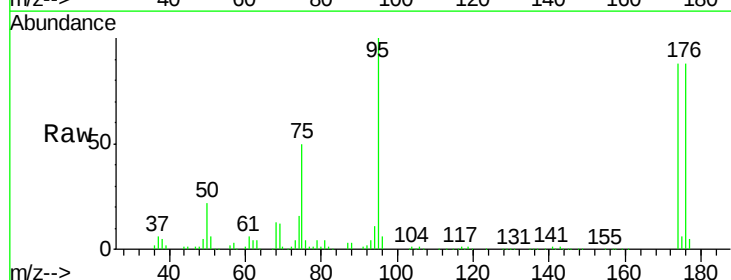
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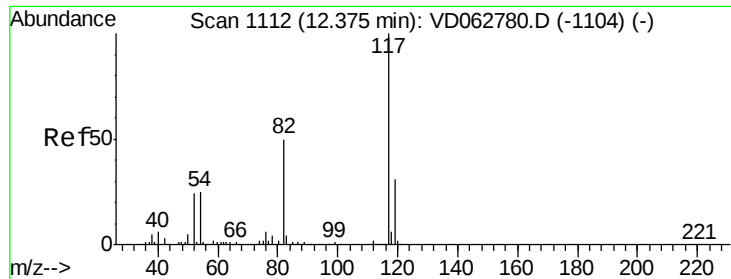
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#62
 4-Bromofluorobenzene
 Concen: 42.407 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.3	0.0	158.0
176	88.5	0.0	151.6





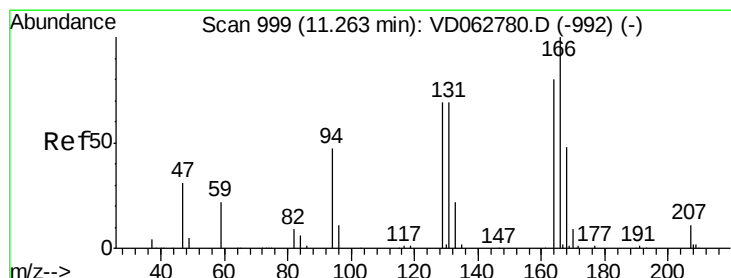
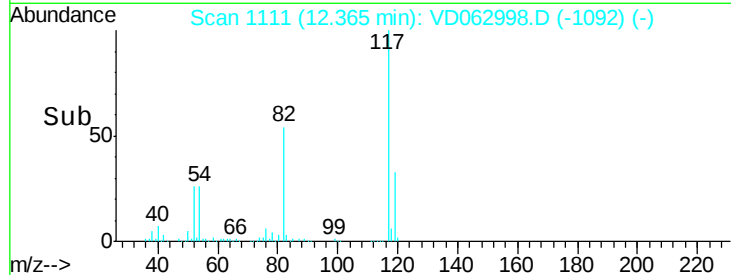
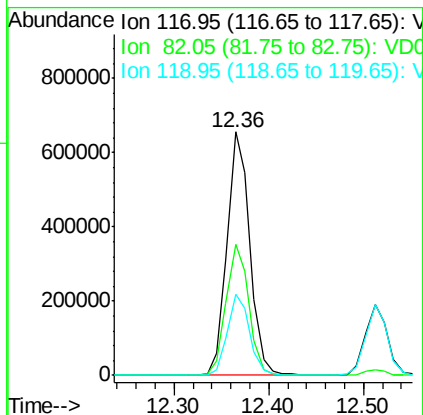
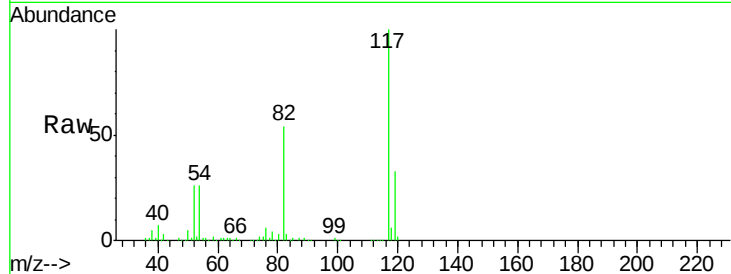
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 1092176
Ion Ratio Lower Upper
117 100
82 53.8 40.4 60.6
119 33.1 25.2 37.8

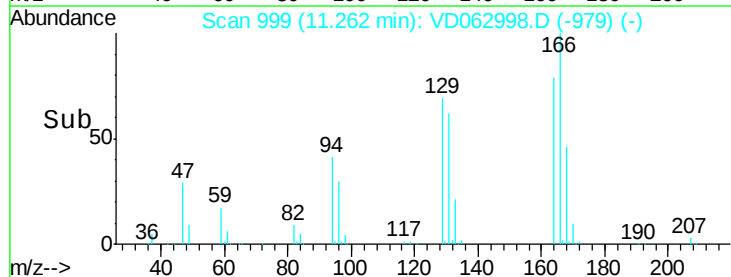
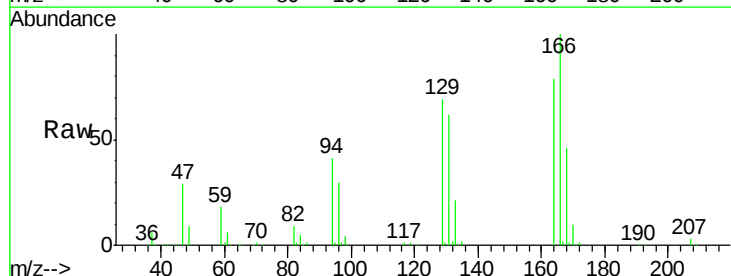
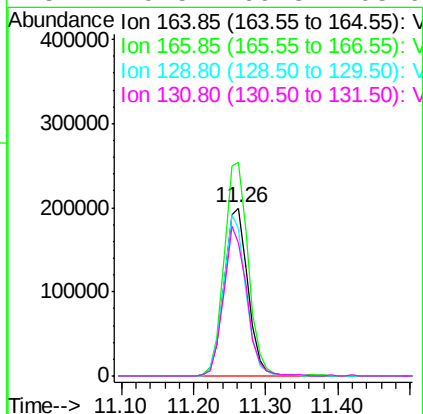
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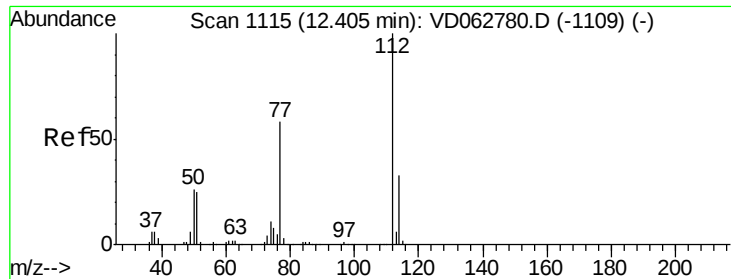
MMDadoda
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#64
Tetrachloroethene
Concen: 50.872 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion:164 Resp: 457279
Ion Ratio Lower Upper
164 100
166 127.4 100.6 150.8
129 87.8 69.4 104.0
131 79.5 69.3 103.9





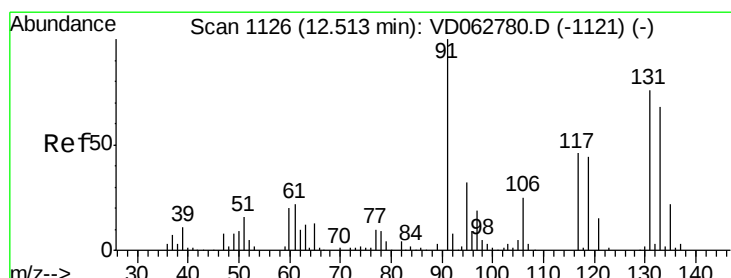
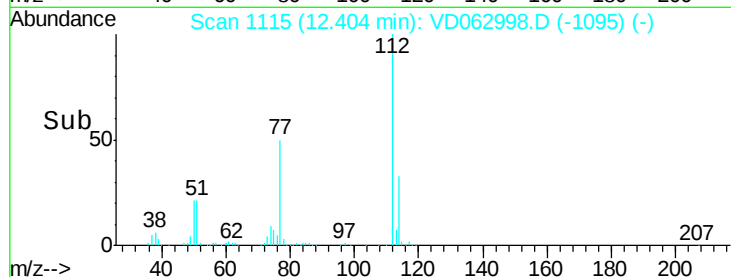
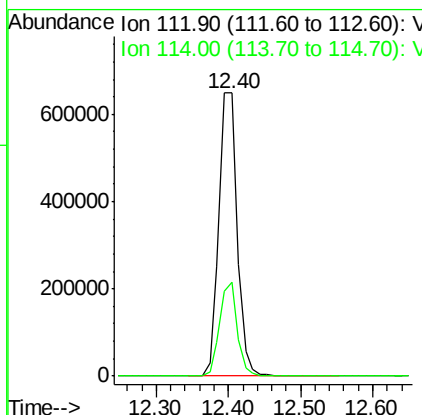
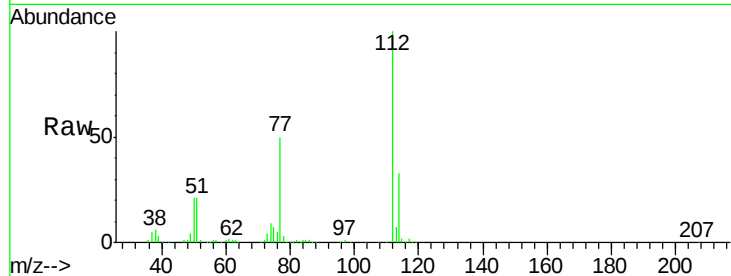
#65
Chlorobenzene
Concen: 56.119 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1137515
Ion Ratio Lower Upper
112 100
114 33.1 26.3 39.5

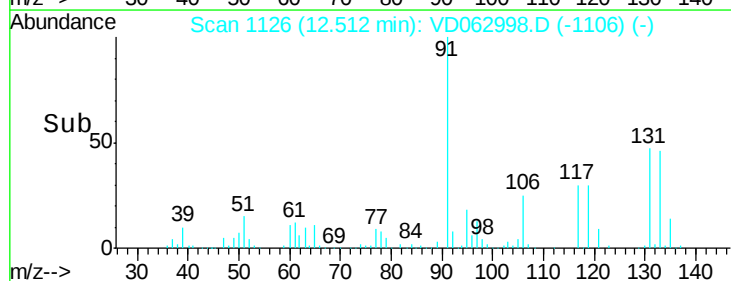
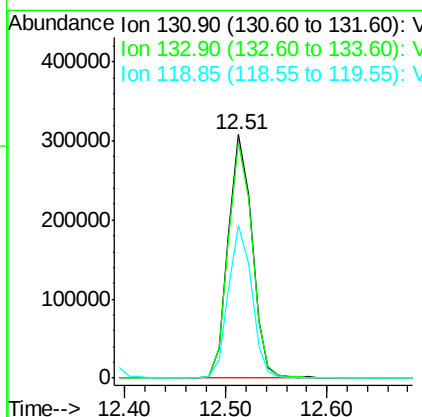
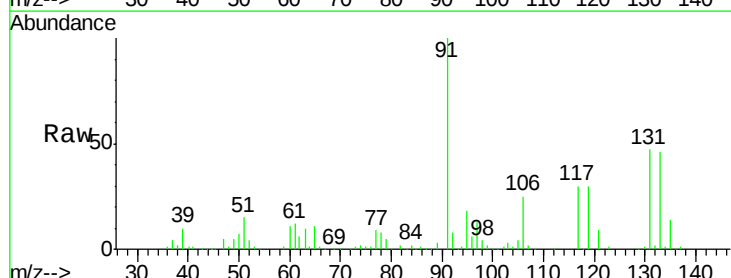
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#66
1,1,1,2-Tetrachloroethane
Concen: 53.170 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion:131 Resp: 504009
Ion Ratio Lower Upper
131 100
133 96.9 44.5 133.3
119 62.5 28.6 85.9





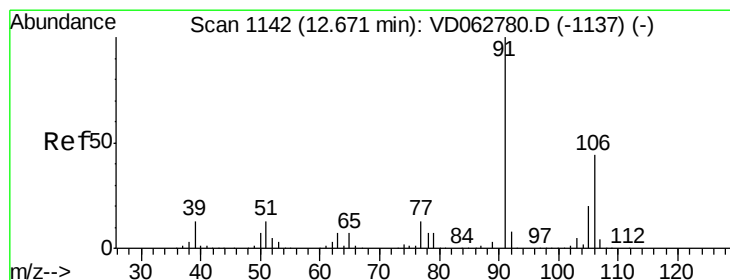
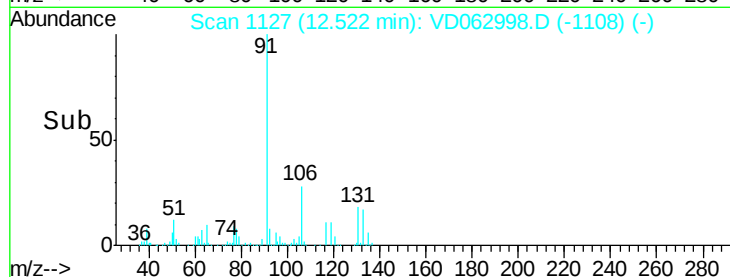
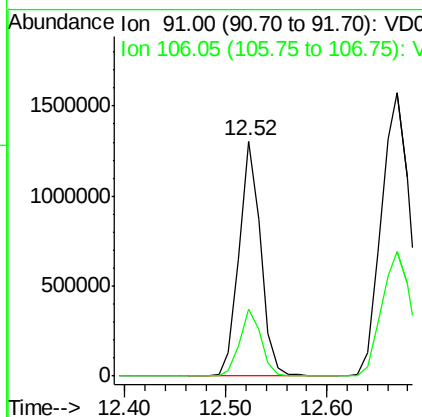
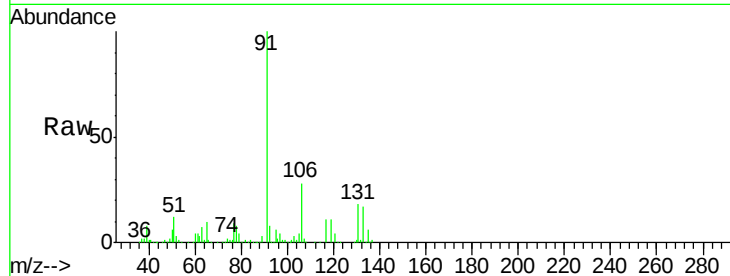
#67
Ethyl Benzene
Concen: 53.131 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1933537
Ion Ratio Lower Upper
91 100
106 28.4 23.1 34.7

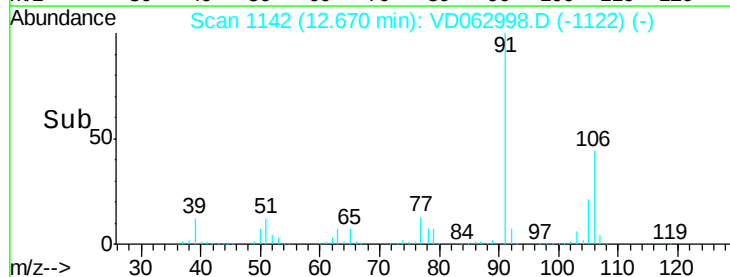
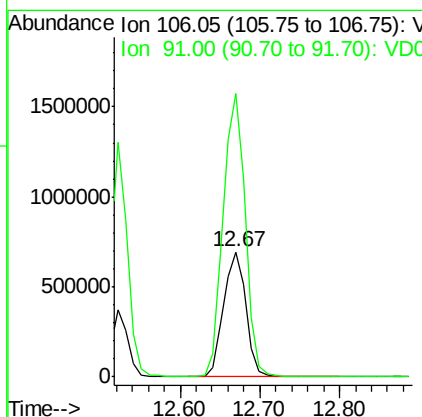
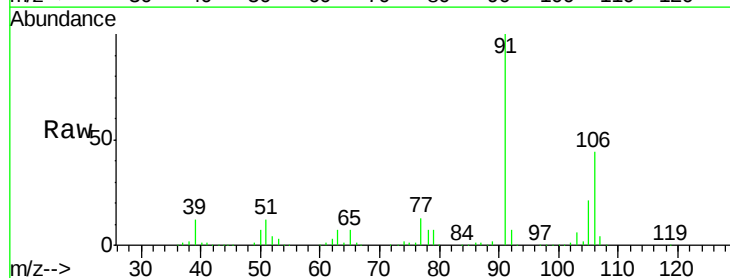
Manual Integrations
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#68
m/p-Xylenes
Concen: 108.402 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion: 106 Resp: 1373985
Ion Ratio Lower Upper
106 100
91 227.1 183.0 274.6





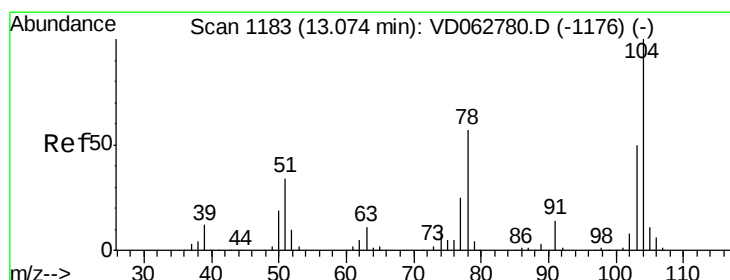
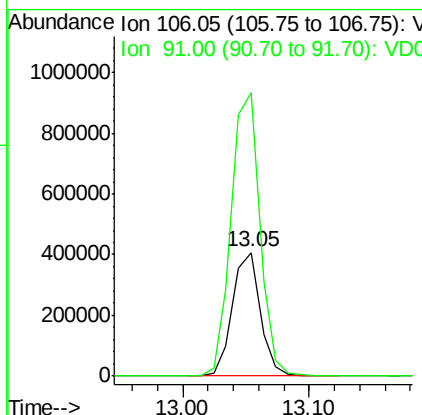
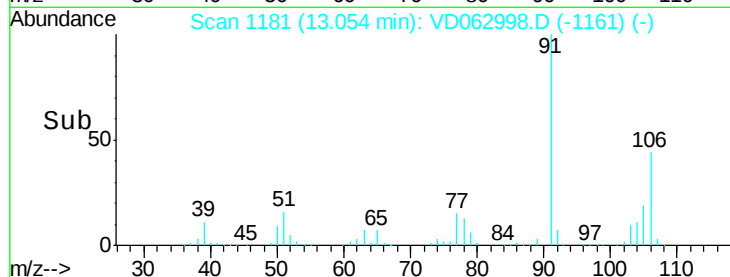
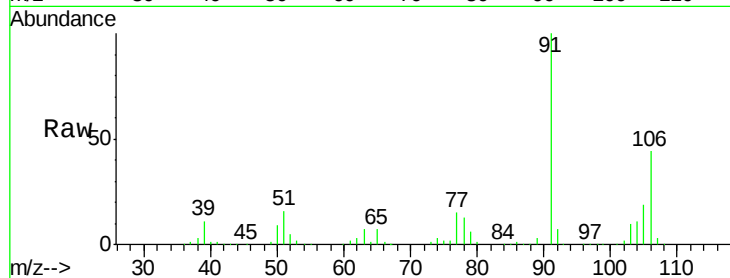
#69
o-Xylene
Concen: 53.350 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 618153
Ion Ratio Lower Upper
106 100
91 228.4 117.9 353.6

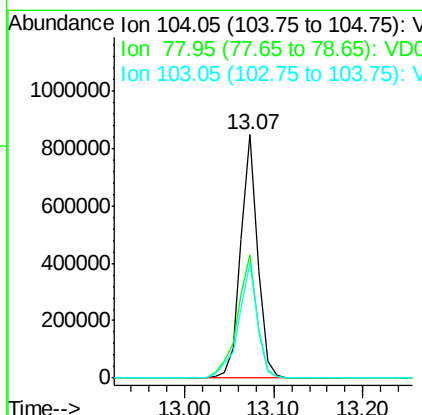
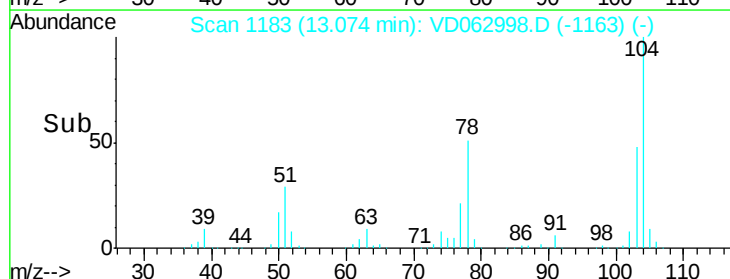
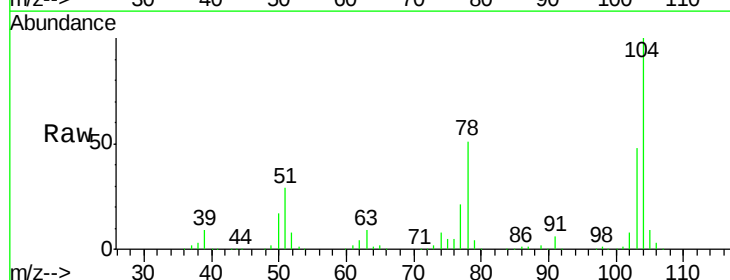
Manual Integrations
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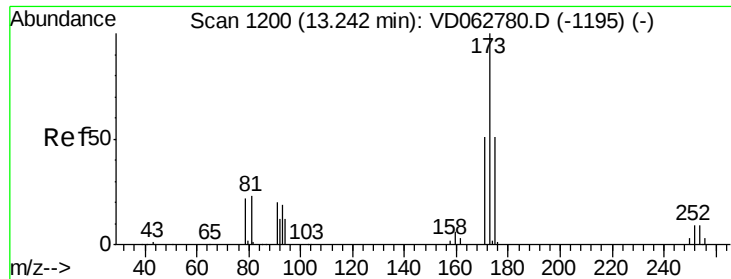
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#70
Styrene
Concen: 55.468 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion:104 Resp: 1128867
Ion Ratio Lower Upper
104 100
78 50.6 45.4 68.2
103 47.6 39.7 59.5





#71

Bromoform

Concen: 53.682 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

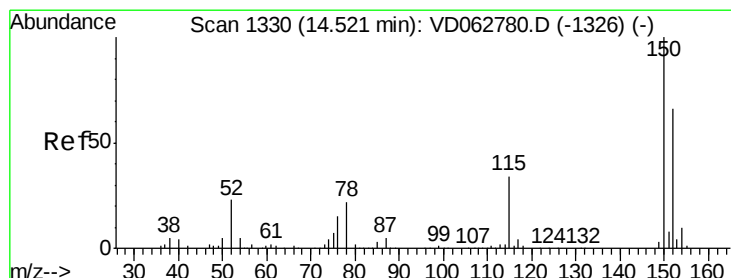
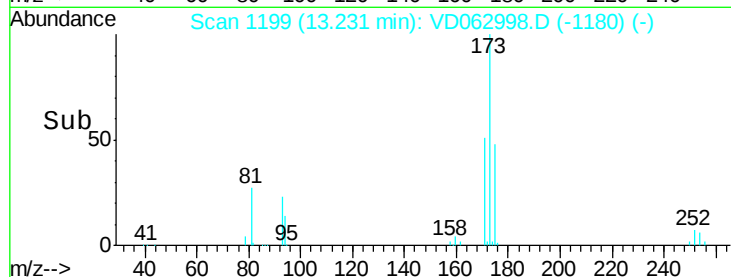
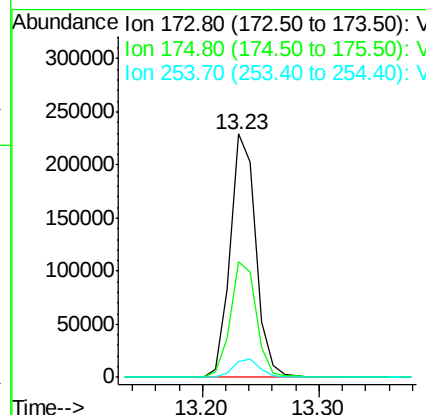
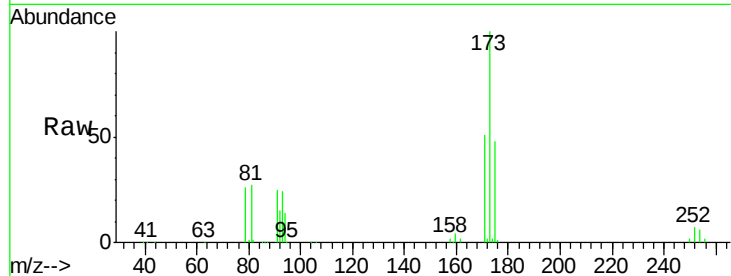
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	25.3	75.9
254	6.4	7.1	10.7

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

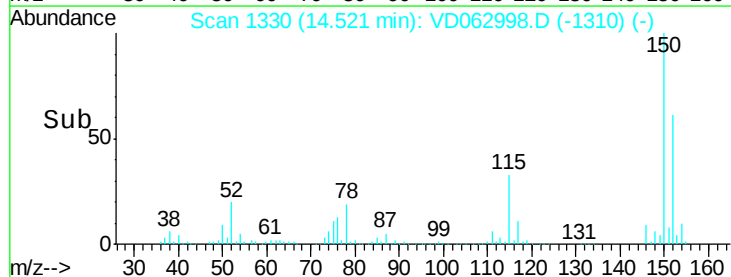
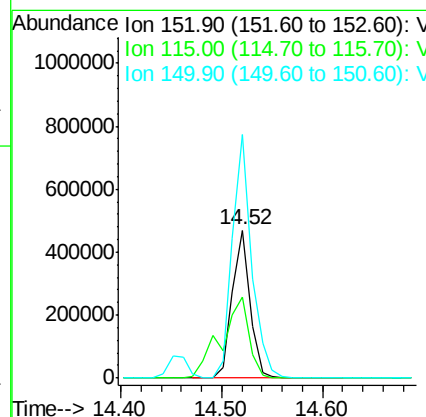
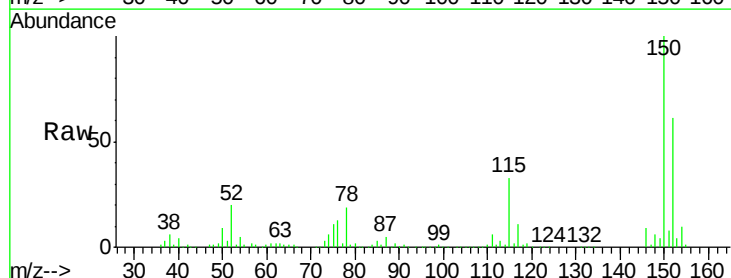
RT: 14.52 min Scan# 1330

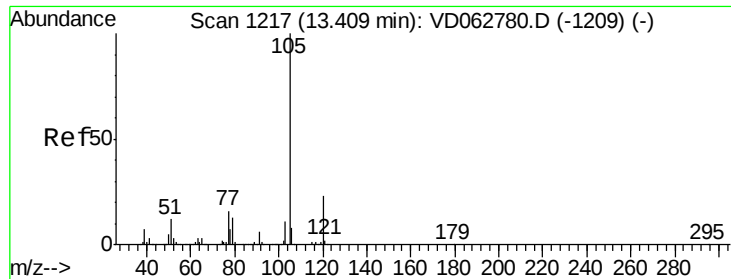
Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	29.2	87.6
150	164.3	0.0	305.8





#73

Isopropylbenzene

Concen: 54.186 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1997526

Ion Ratio Lower Upper

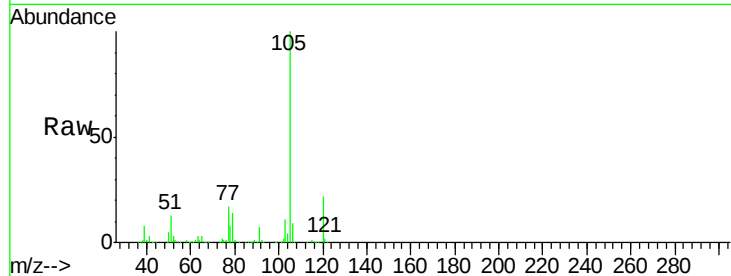
105 100

120 22.3 11.6 34.7

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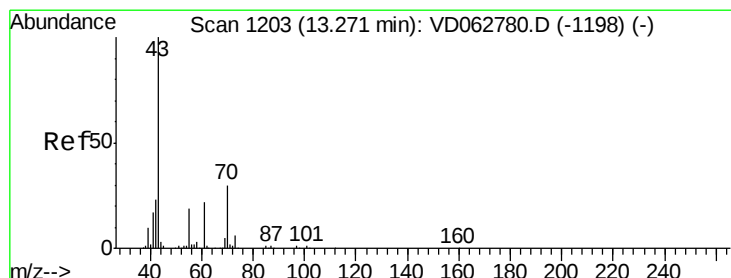
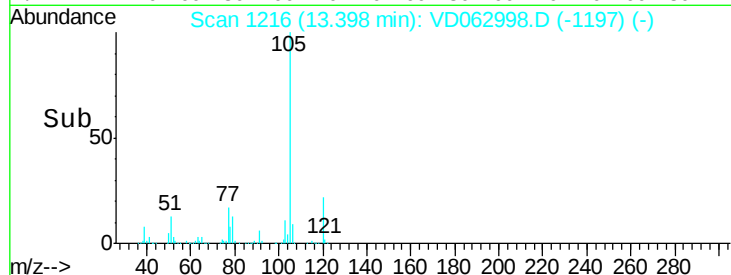
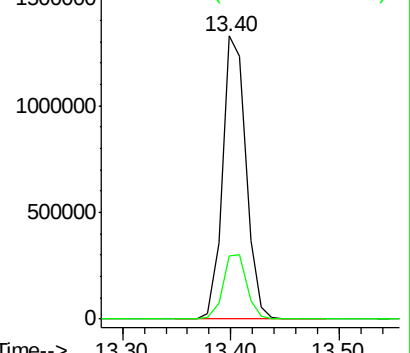
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 58.021 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion: 43 Resp: 519429

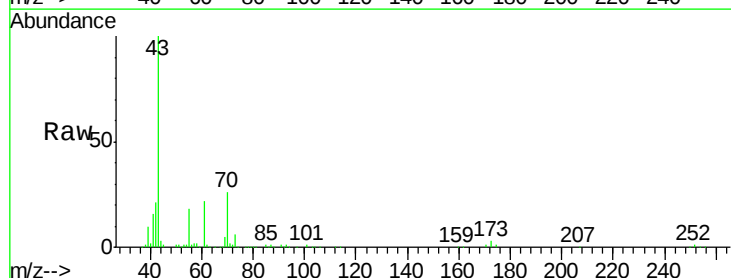
Ion Ratio Lower Upper

43 100

70 26.2 24.4 36.6

55 18.0 15.2 22.8

61 21.6 17.4 26.2

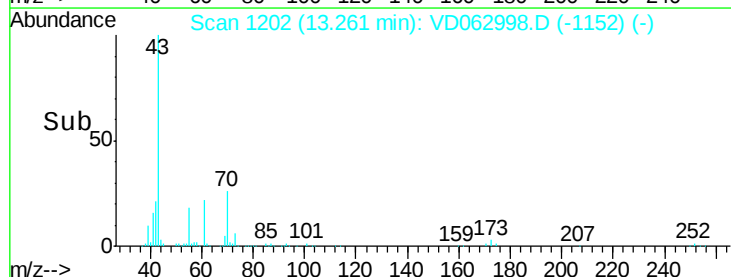
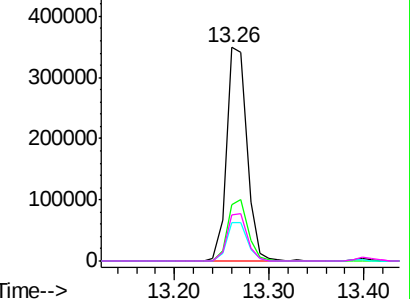


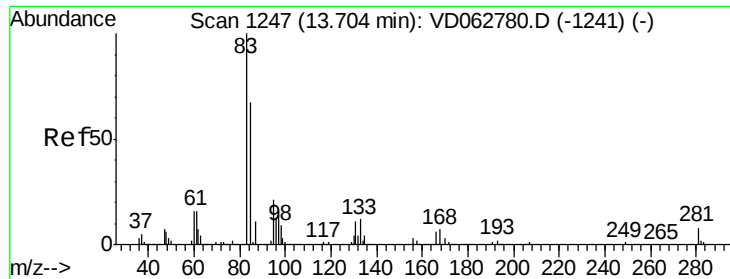
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 56.847 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 341448

Ion Ratio Lower Upper

83 100

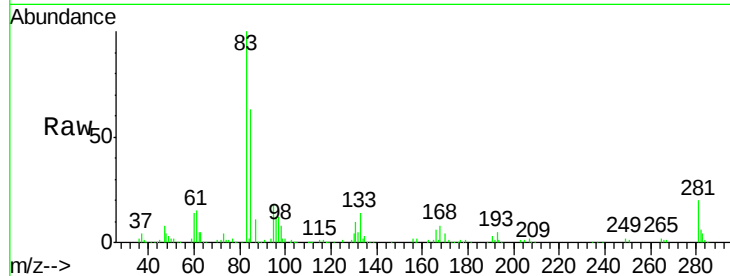
131 10.5 5.3 16.1

85 63.4 33.7 101.1

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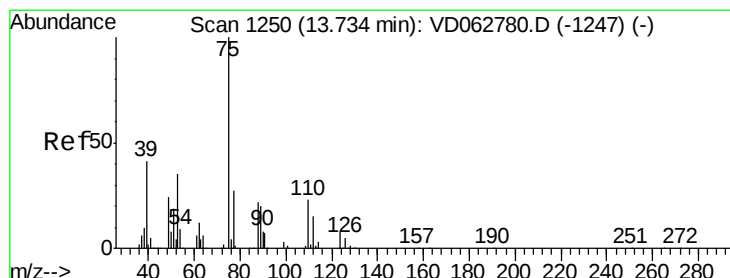
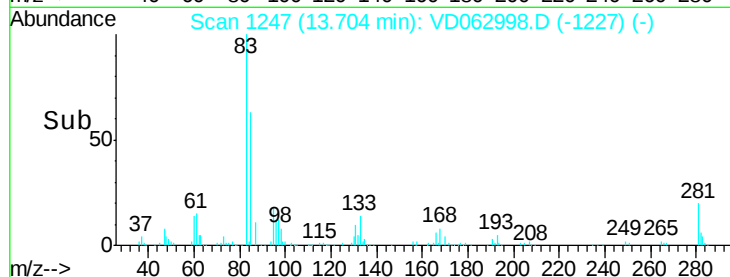
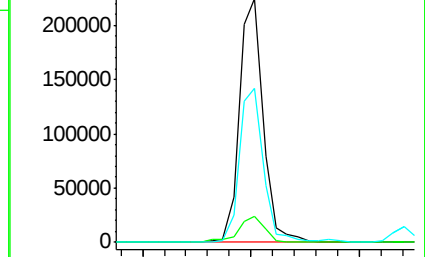
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Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 58.109 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD062998.D

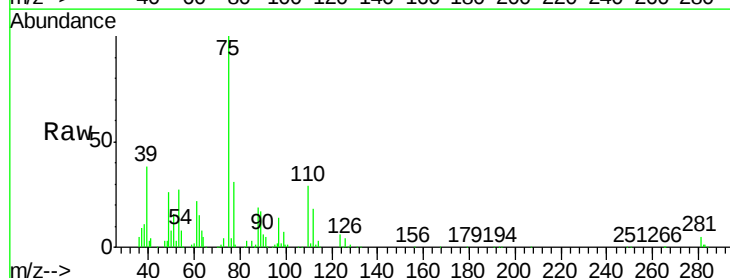
Acq: 1 Jul 2019 18:52

Tgt Ion: 75 Resp: 385688

Ion Ratio Lower Upper

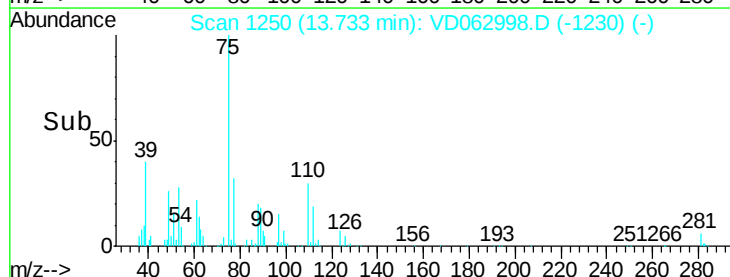
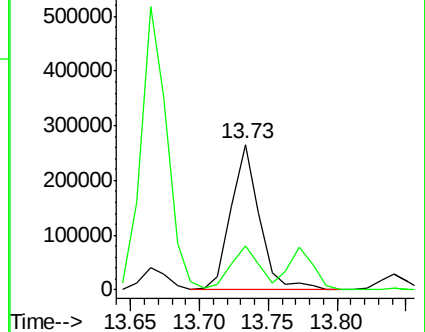
75 100

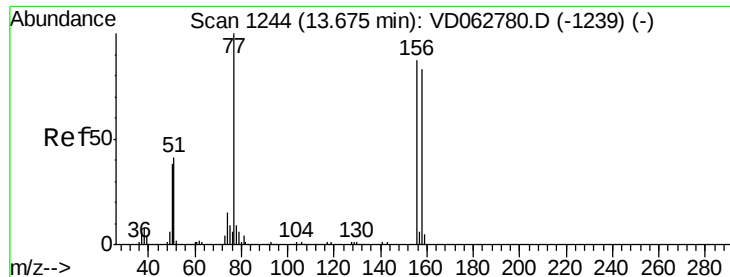
77 30.5 15.0 45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 55.576 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 551062

Ion Ratio Lower Upper

156 100

77 96.9 57.7 173.1

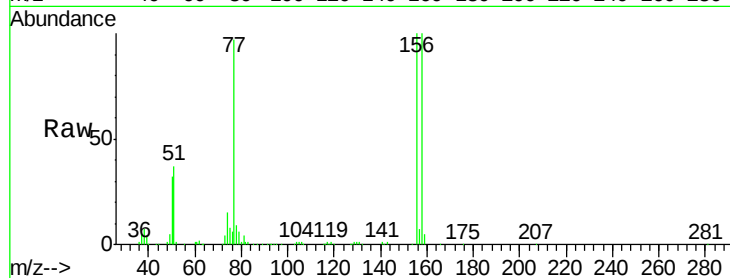
158 100.3 47.7 143.1

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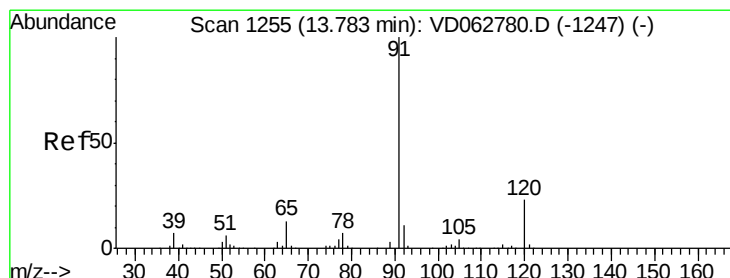
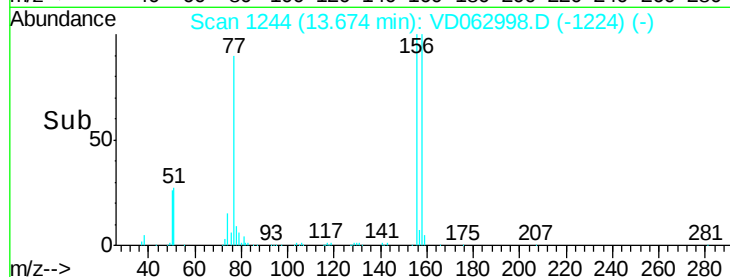
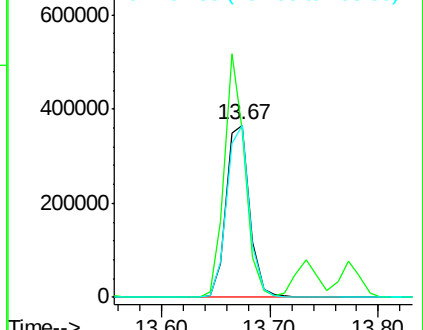
7/3/2019 9:15:48 AM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 55.755 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD062998.D

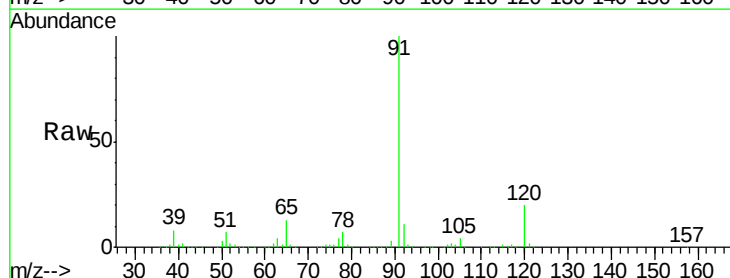
Acq: 1 Jul 2019 18:52

Tgt Ion: 91 Resp: 2392258

Ion Ratio Lower Upper

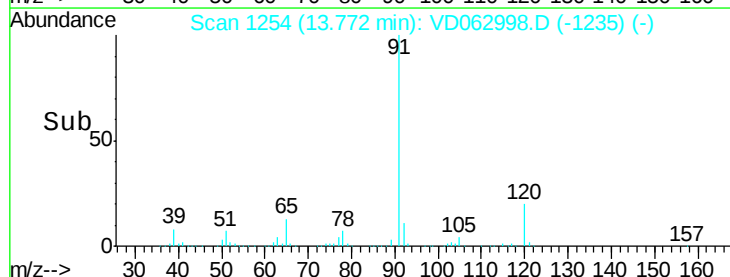
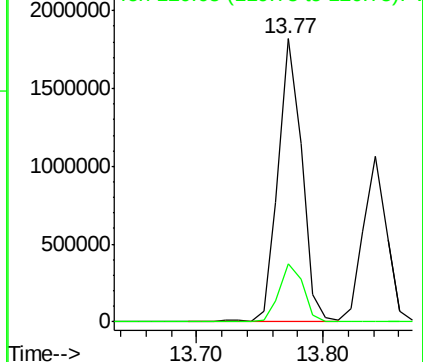
91 100

120 20.5 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





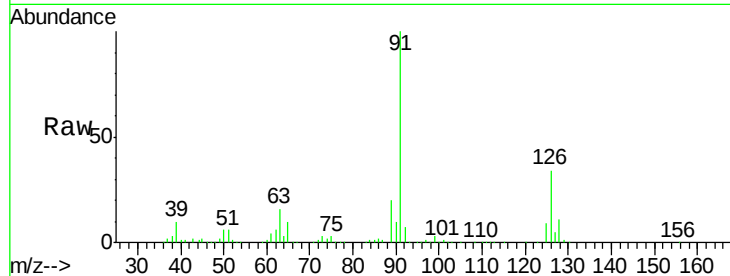
#79
 2-Chlorotoluene
 Concen: 56.124 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

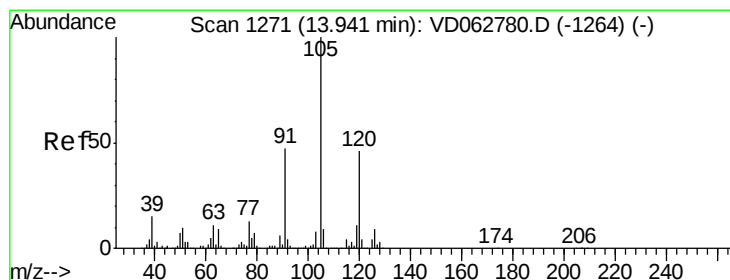
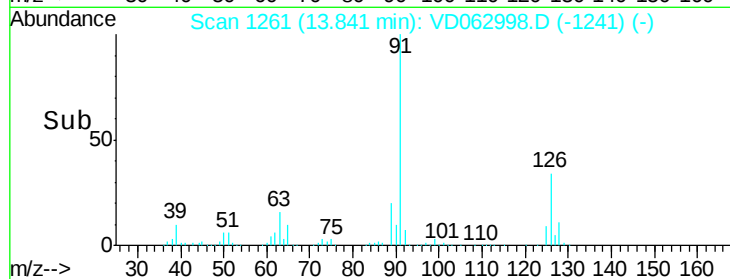
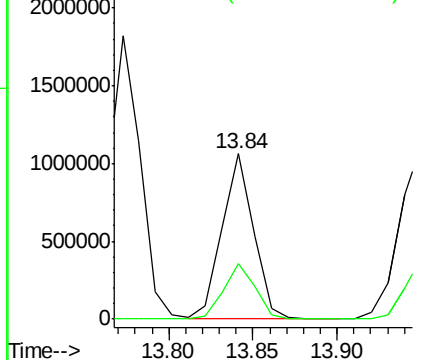
Tot Ion: 91 Resp: 1376178
 Ion Ratio Lower Upper
 91 100
 126 33.6 15.7 47.1

Manual Integrations
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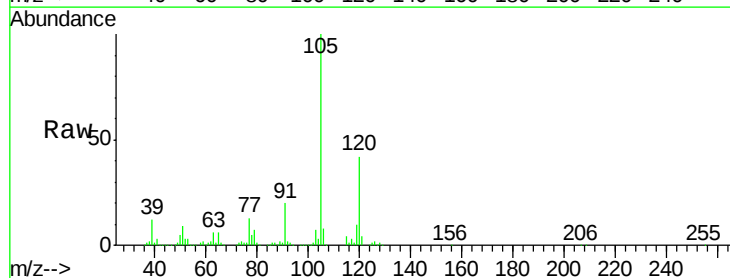


Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1258) (-)
 Ion 125.95 (125.65 to 126.65): VD062780.D (-1258) (-)

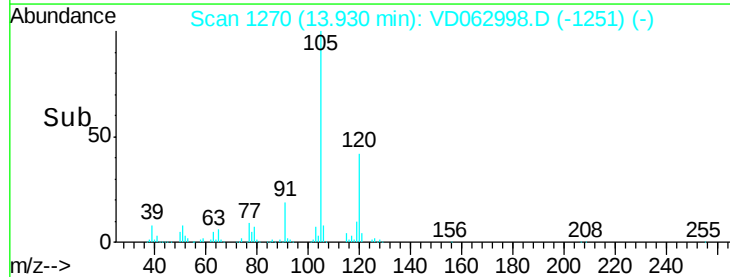
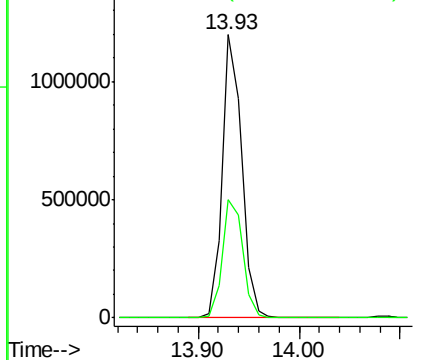


#80
 1,3,5-Trimethylbenzene
 Concen: 52.017 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion: 105 Resp: 1610696
 Ion Ratio Lower Upper
 105 100
 120 41.6 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): VD062780.D (-1264) (-)
 Ion 120.05 (119.75 to 120.75): VD062780.D (-1264) (-)





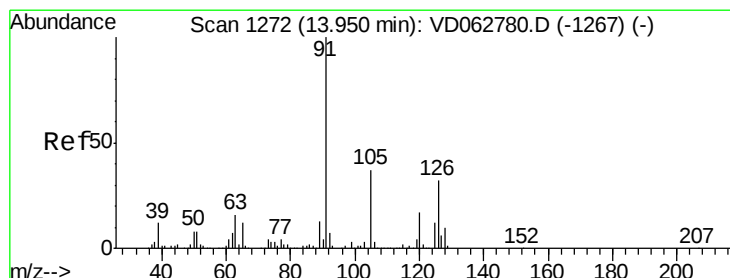
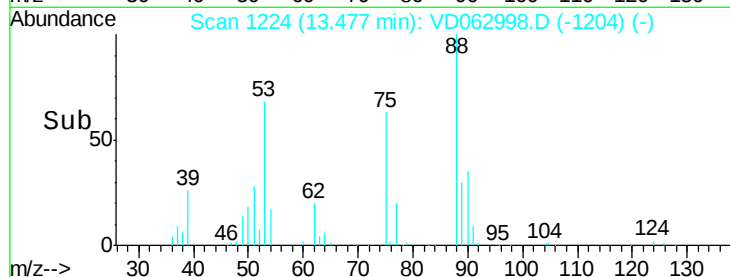
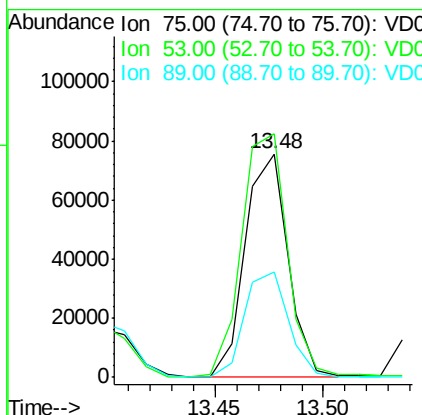
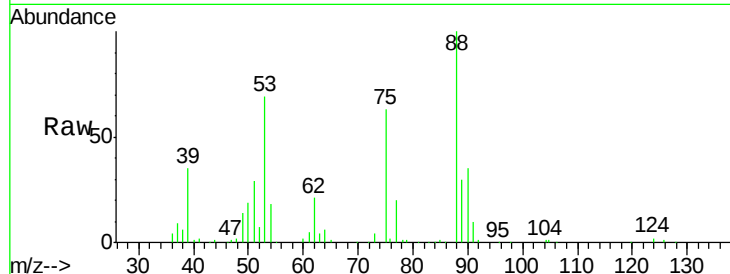
#81
trans-1,4-Dichloro-2-butene
Concen: 59.799 ug/l
RT: 13.48 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	109.0	97.8	146.8
89	47.1	39.4	59.2

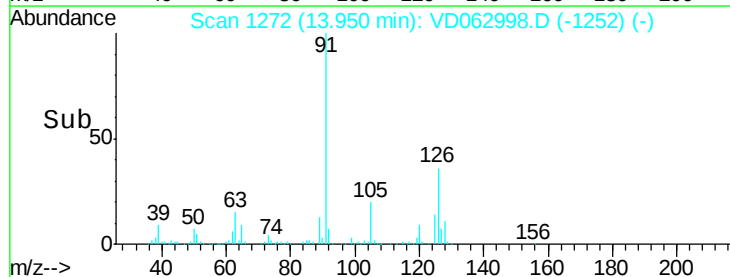
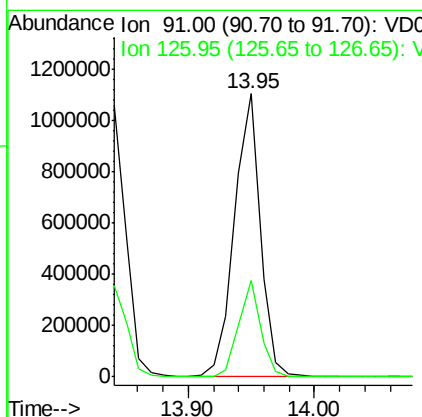
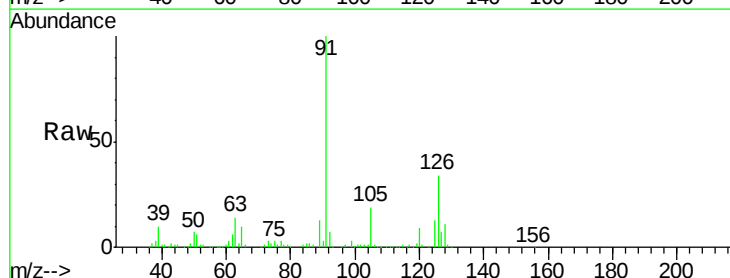
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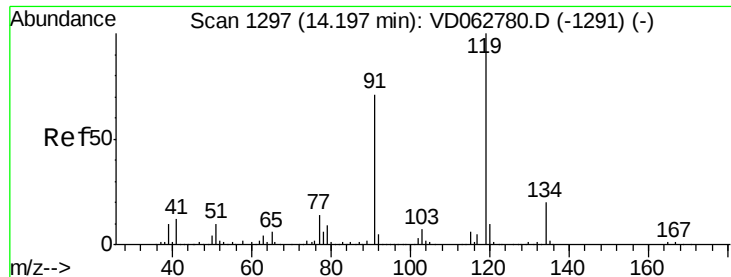
MMDadoda
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#82
4-Chlorotoluene
Concen: 52.637 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.0	47.9





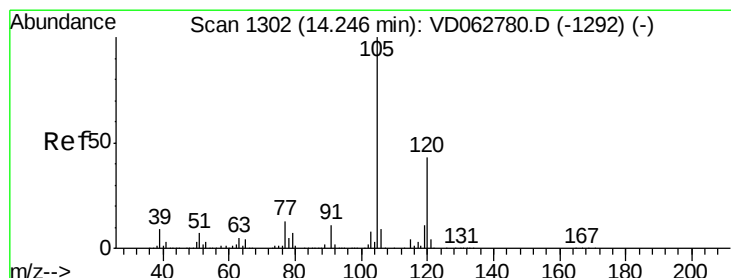
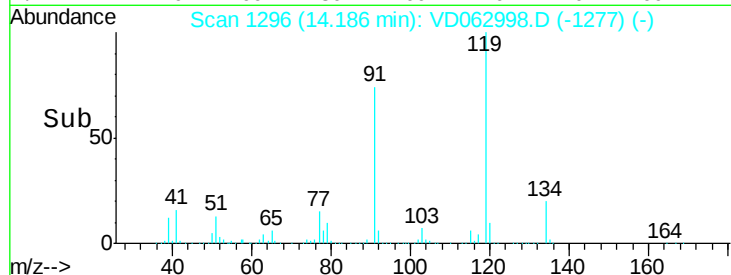
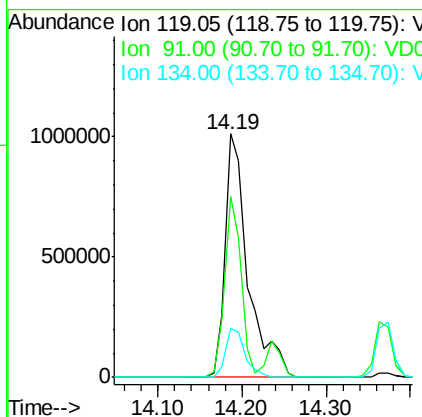
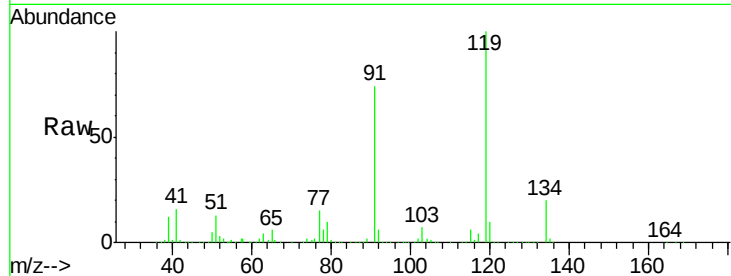
#83
tert-Butylbenzene
Concen: 55.614 ug/l
RT: 14.19 min Scan# 1296
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:119 Resp: 1919484
Ion Ratio Lower Upper
119 100
91 74.3 35.5 106.5
134 20.2 10.2 30.6

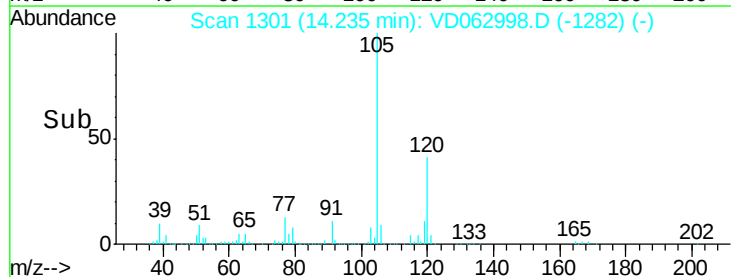
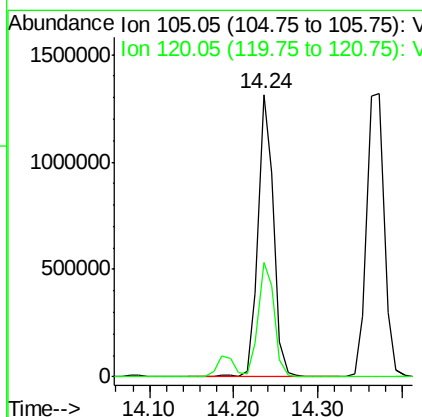
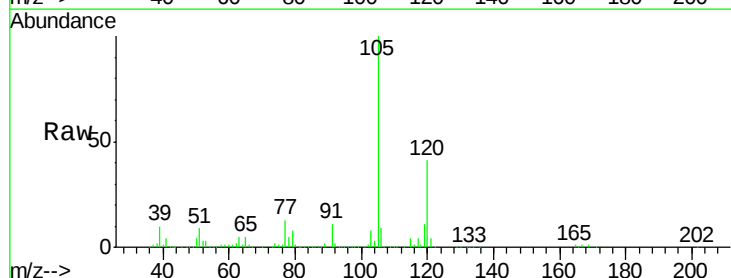
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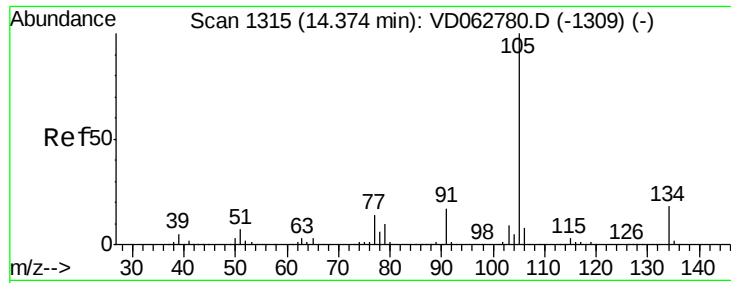
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#84
1,2,4-Trimethylbenzene
Concen: 53.738 ug/l
RT: 14.24 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion:105 Resp: 1705489
Ion Ratio Lower Upper
105 100
120 40.6 21.3 63.9





#85

sec-Butylbenzene

Concen: 51.400 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1928159

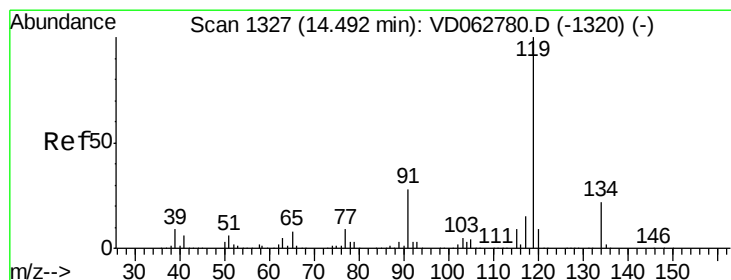
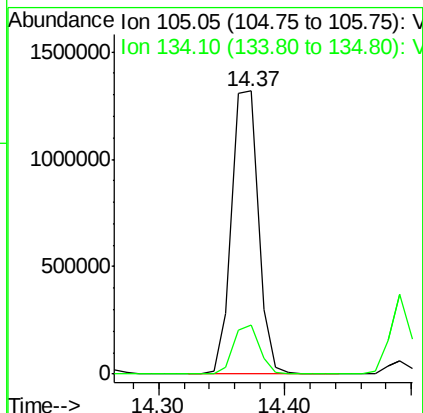
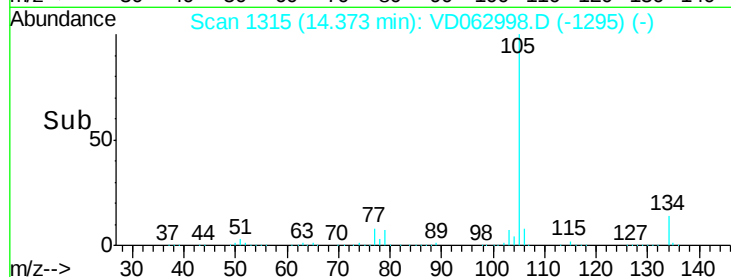
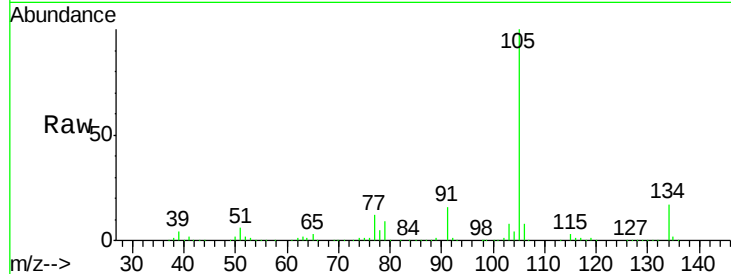
Ion Ratio Lower Upper

105 100

134 17.4 9.1 27.3

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#86

p-Isopropyltoluene

Concen: 55.372 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

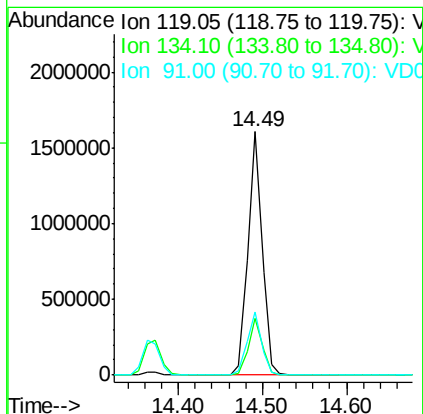
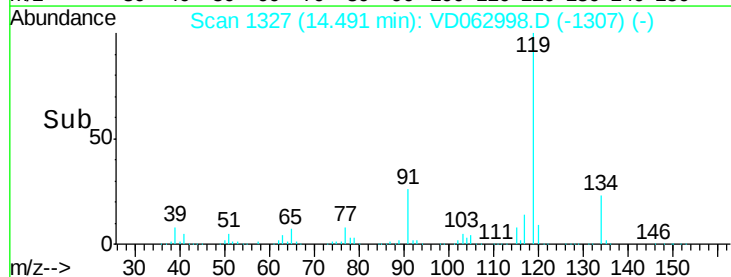
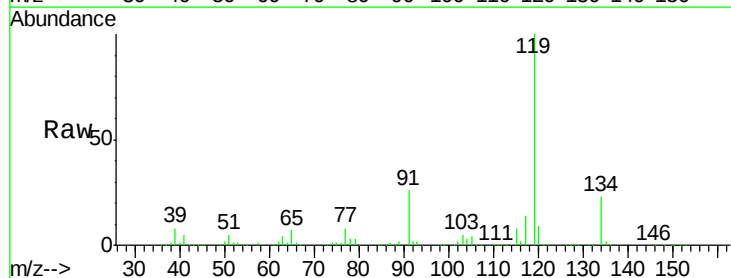
Tgt Ion:119 Resp: 1900254

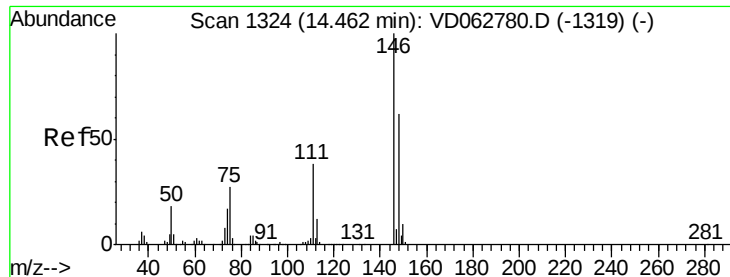
Ion Ratio Lower Upper

119 100

134 23.2 11.1 33.1

91 26.1 14.0 41.9





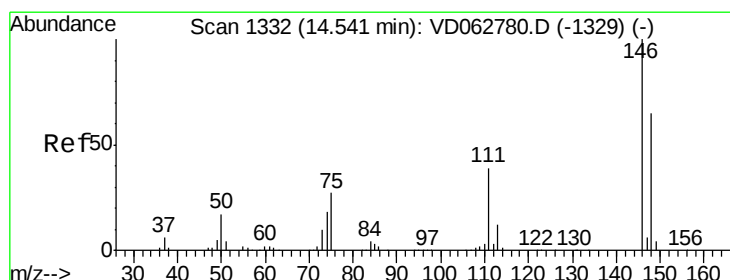
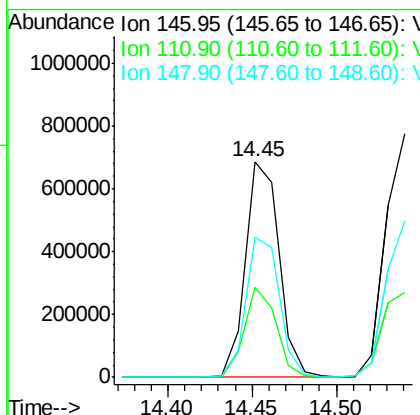
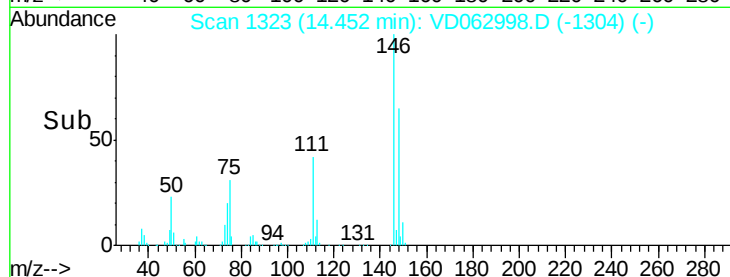
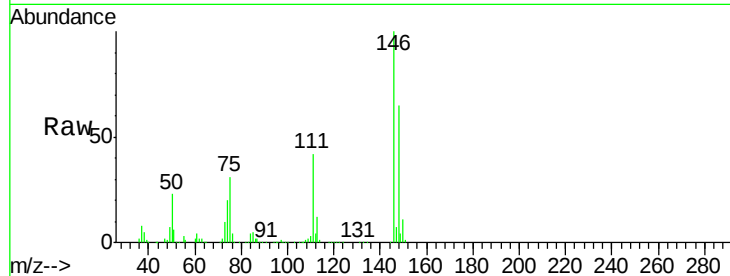
#87
 1,3-Dichlorobenzene
 Concen: 53.747 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.0	57.0
148	64.9	30.8	92.3

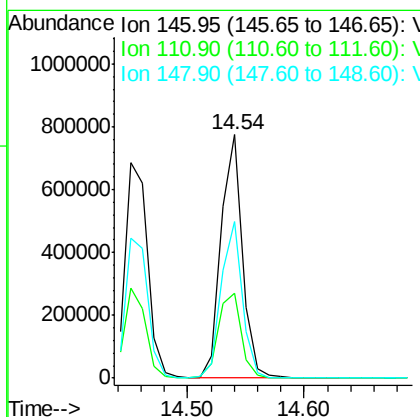
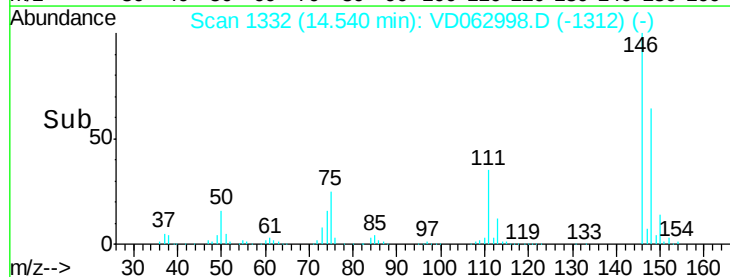
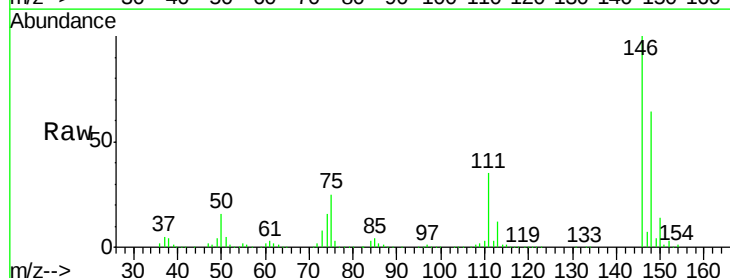
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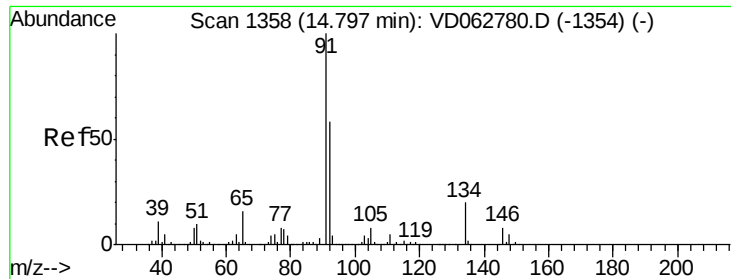
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#88
 1,4-Dichlorobenzene
 Concen: 55.020 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.8	19.7	59.1
148	64.4	32.8	98.3





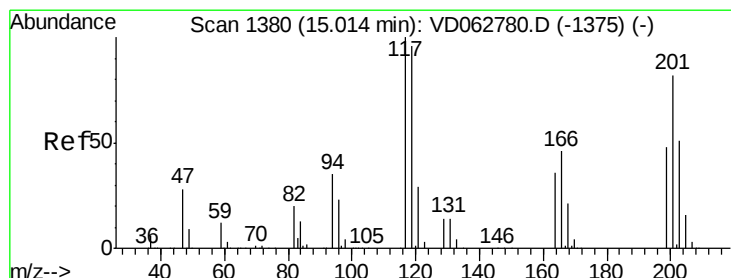
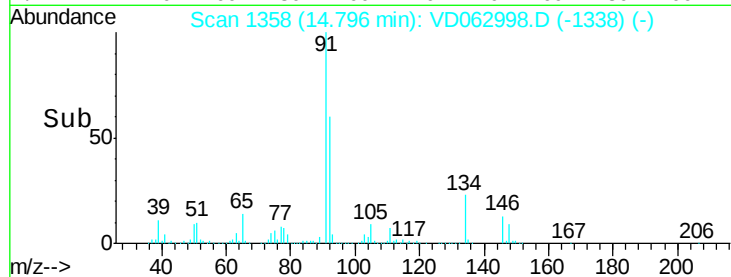
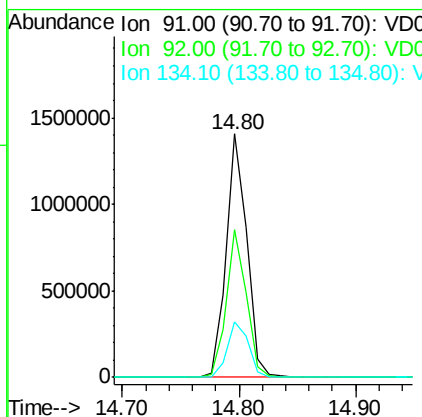
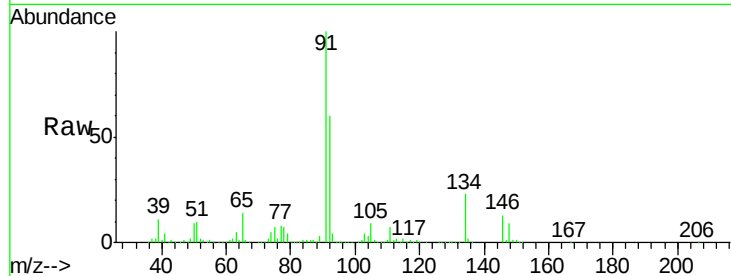
#89
n-Butylbenzene
Concen: 53.645 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1723120
Ion Ratio Lower Upper
91 100
92 60.4 28.9 86.7
134 22.8 10.1 30.3

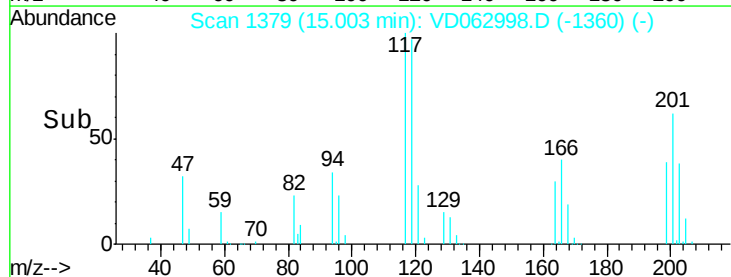
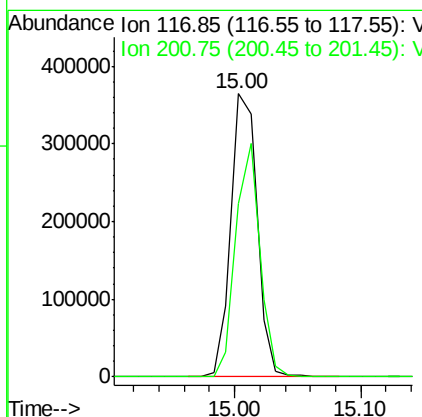
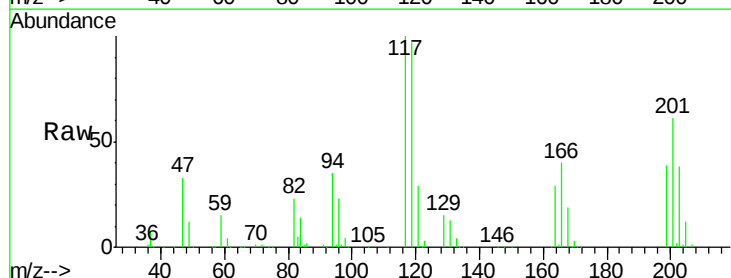
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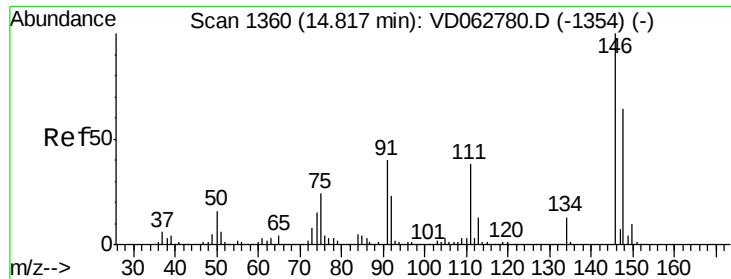
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#90
Hexachloroethane
Concen: 56.740 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD062998.D
Acq: 1 Jul 2019 18:52

Tgt Ion: 117 Resp: 523552
Ion Ratio Lower Upper
117 100
201 61.4 40.8 122.2





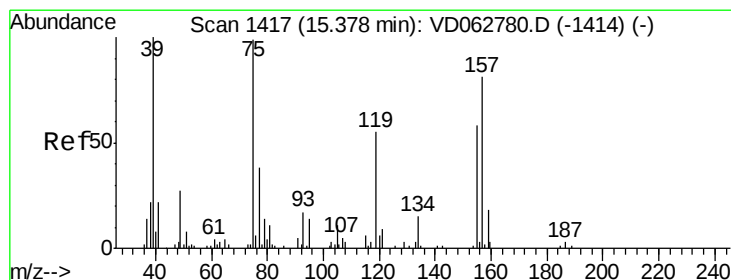
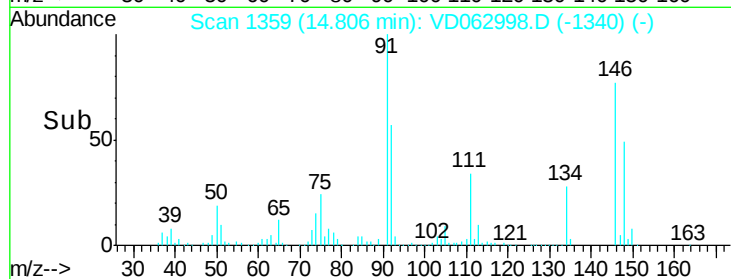
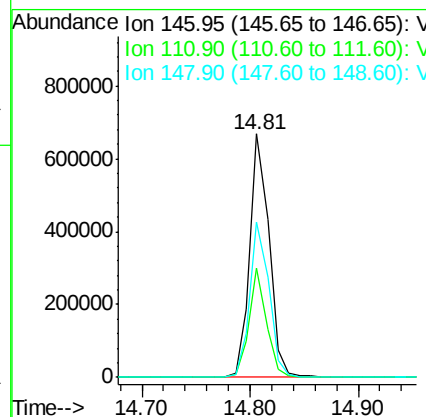
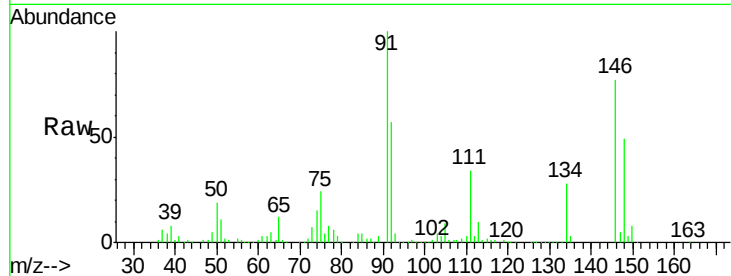
#91
 1,2-Dichlorobenzene
 Concen: 54.434 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	19.1	57.1
148	63.7	32.3	96.8

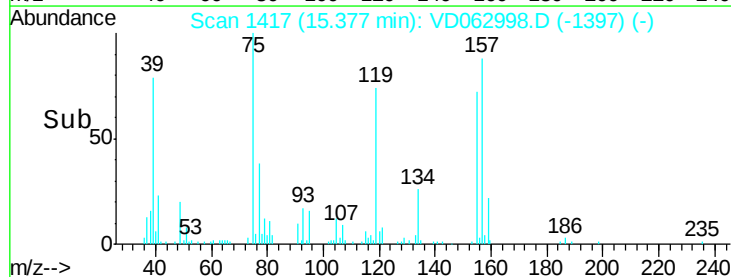
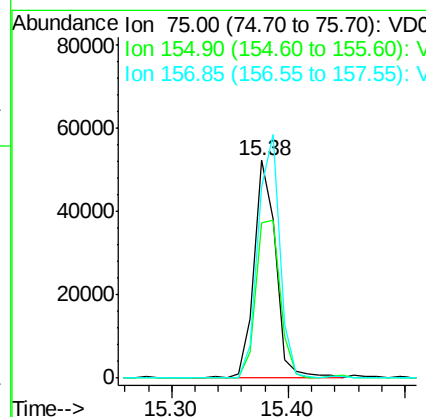
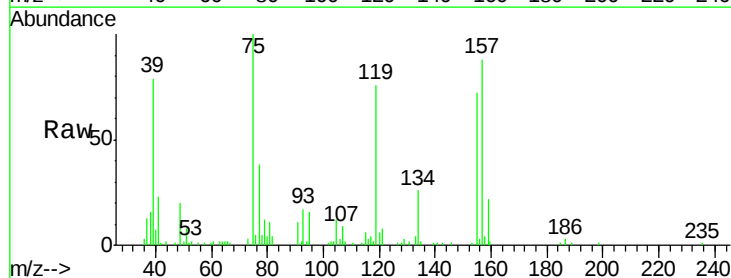
Manual Integrations
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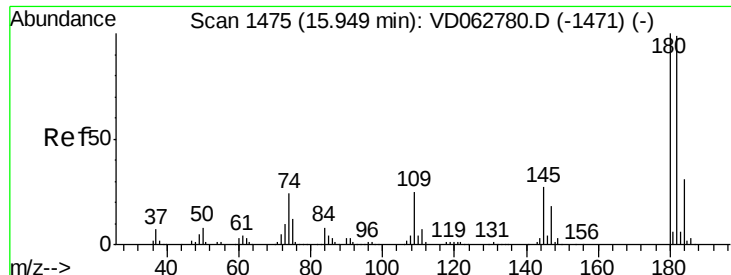
MMDadoda
 7/3/2019 9:15:48 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 57.508 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.5	29.3	87.8
157	88.0	41.3	123.7





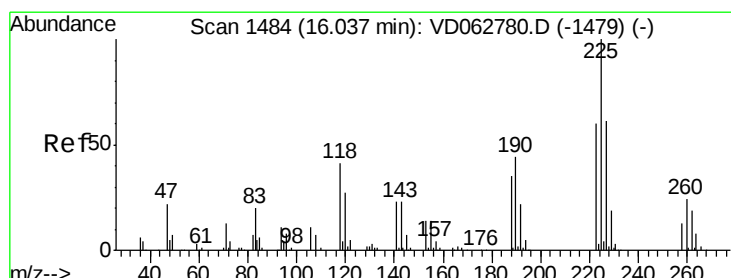
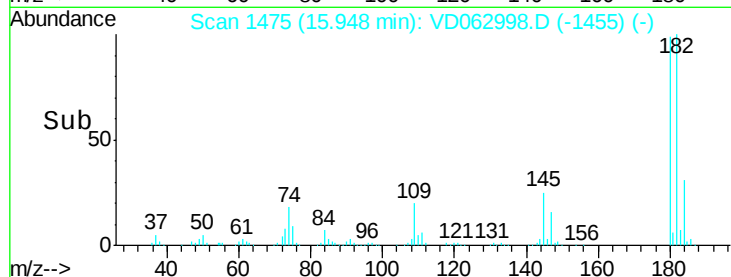
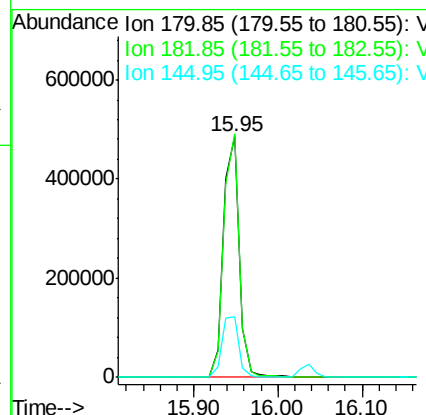
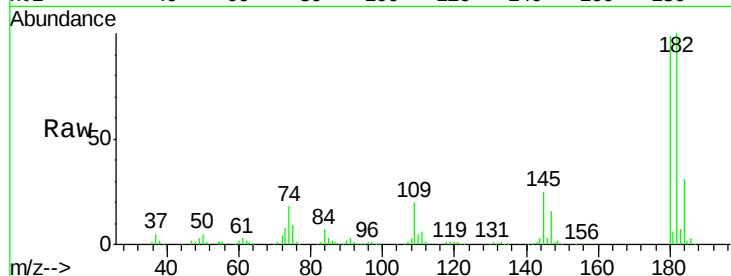
#93
 1,2,4-Trichlorobenzene
 Concen: 53.787 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	101.3	49.5	148.5	
145	25.1	13.7	41.0	

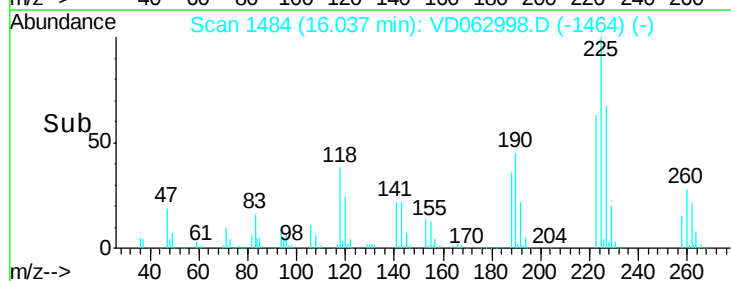
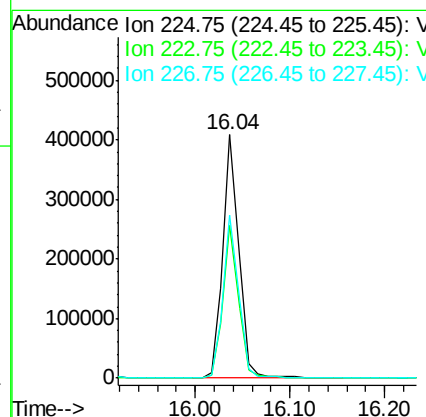
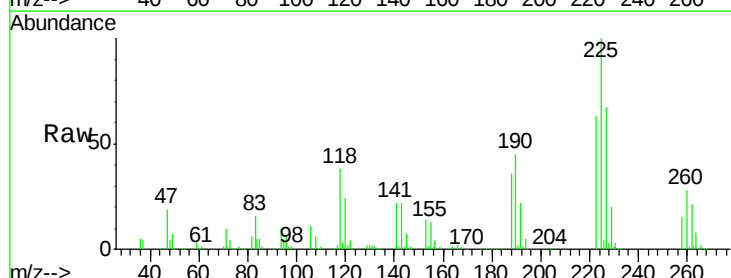
Manual Integrations
 APPROVED

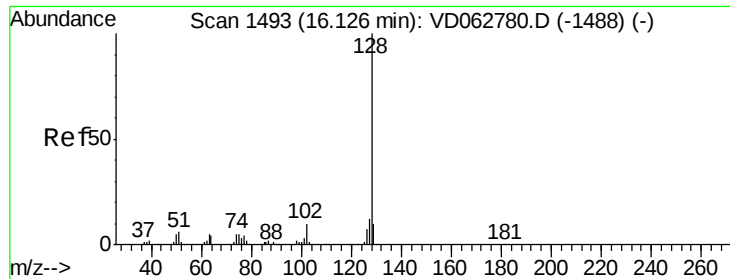
MMDadoda
 7/3/2019 9:15:48 AM



#94
 Hexachlorobutadiene
 Concen: 52.933 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD062998.D
 Acq: 1 Jul 2019 18:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.6	29.8	89.5	
227	66.8	30.6	91.6	





#95

Naphthalene

Concen: 58.008 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Instrument :

MSVOA_D

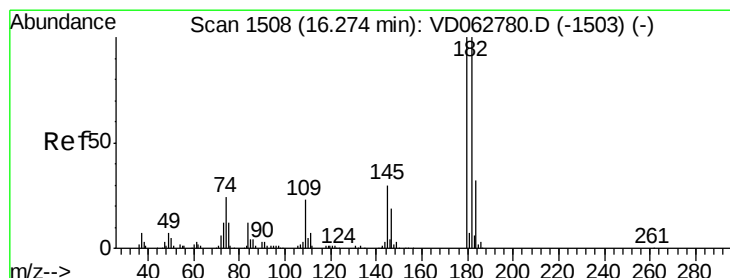
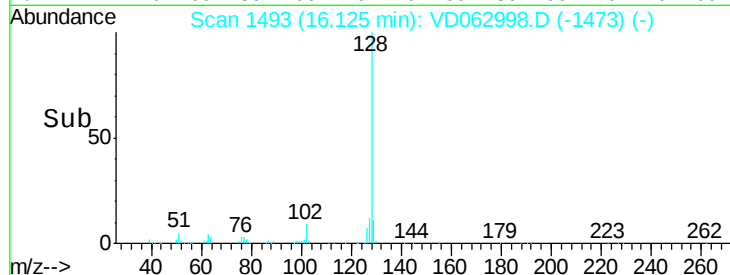
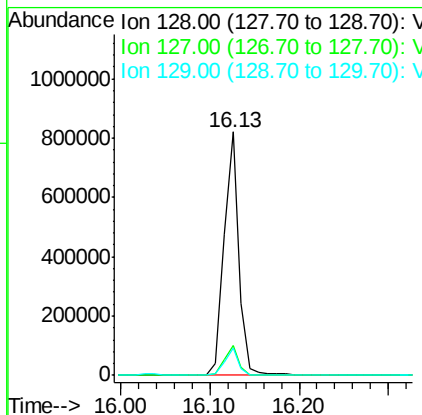
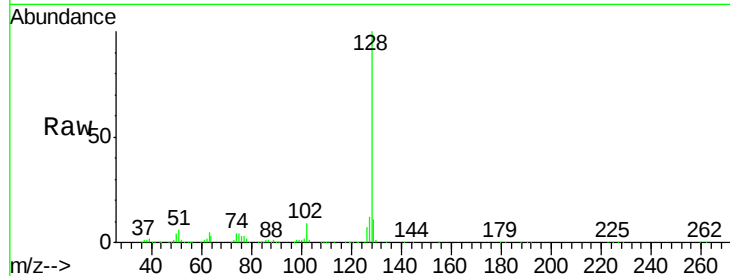
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	965822
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.7	14.5
129	11.0	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
7/3/2019 9:15:48 AM



#96

1,2,3-Trichlorobenzene

Concen: 54.421 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD062998.D

Acq: 1 Jul 2019 18:52

Tgt Ion:	180	Resp:	496715
Ion Ratio	Lower	Upper	
180	100		
182	96.5	49.9	149.6
145	28.9	15.2	45.5

