

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062619\
 Data File : VD062907.D
 Acq On : 26 Jun 2019 10:15
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 6/29/2019 7:22:33 AM

Quant Time: Jun 27 09:06:24 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	988682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1346730	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1125049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	599549	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	491380	45.72	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	91.44%	
35) Dibromofluoromethane	6.93	113	520071	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	
50) Toluene-d8	10.41	98	1202227	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
62) 4-Bromofluorobenzene	13.56	95	537473	47.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	546386	42.707	ug/l	100
3) Chloromethane	1.75	50	414396	43.068	ug/l	99
4) Vinyl Chloride	1.85	62	439441	46.063	ug/l	93
5) Bromomethane	2.14	94	209033	46.787	ug/l	99
6) Chloroethane	2.26	64	202146	46.803	ug/l	93
7) Trichlorofluoromethane	2.53	101	932109	48.278	ug/l	97
8) Diethyl Ether	2.87	74	122593	49.975	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.15	101	497353	47.550	ug/l	93
10) Methyl Iodide	3.29	142	659589	47.799	ug/l	95
11) Tert butyl alcohol	4.08	59	115905	236.802	ug/l #	91
12) 1,1-Dichloroethene	3.12	96	368446	46.957	ug/l	86
13) Acrolein	3.03	56	132935	266.039	ug/l	99
14) Allyl chloride	3.61	41	601915	51.916	ug/l	99
15) Acrylonitrile	4.19	53	293955	255.591	ug/l	98
16) Acetone	3.22	43	567275	260.590	ug/l	98
17) Carbon Disulfide	3.36	76	1144867	45.654	ug/l	97
18) Methyl Acetate	3.64	43	158957	48.997	ug/l	94
19) Methyl tert-butyl Ether	4.24	73	842772	49.615	ug/l	97
20) Methylene Chloride	3.81	84	401909	49.037	ug/l	94
21) trans-1,2-Dichloroethene	4.21	96	393713	47.124	ug/l	92
22) Diisopropyl ether	5.12	45	1143518	48.499	ug/l #	94
23) Vinyl Acetate	5.06	43	3863560	261.866	ug/l	99
24) 1,1-Dichloroethane	4.98	63	756058	49.250	ug/l	98
25) 2-Butanone	6.07	43	551720	274.490	ug/l #	92
26) 2,2-Dichloropropane	6.02	77	818971	50.331	ug/l	99
27) cis-1,2-Dichloroethene	6.03	96	422760	47.850	ug/l	95
28) Bromochloromethane	6.43	49	274017	50.681	ug/l	89
29) Tetrahydrofuran	6.45	42	252595	265.610	ug/l	97
30) Chloroform	6.66	83	935493	50.108	ug/l	100
31) Cyclohexane	6.96	56	496660	49.213	ug/l	94
32) 1,1,1-Trichloroethane	6.87	97	972623	50.017	ug/l	96
36) 1,1-Dichloropropene	7.14	75	616492	48.357	ug/l	97
37) Ethyl Acetate	6.19	43	260033	48.523	ug/l #	92
38) Carbon Tetrachloride	7.10	117	933713m	48.698	ug/l	

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 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)
39) Methylcyclohexane	8.87	83	525419	46.821	ug/l	96
40) Benzene	7.45	78	1244117	48.616	ug/l	100
41) Methacrylonitrile	6.44	41	337785	50.242	ug/l	97
42) 1,2-Dichloroethane	7.58	62	714548	51.184	ug/l	99
43) Isopropyl Acetate	9.24	43	331287	49.566	ug/l #	94
44) Trichloroethene	8.54	130	526084	52.437	ug/l	96
45) 1,2-Dichloropropane	8.94	63	307481	48.321	ug/l	97
46) Dibromomethane	9.06	93	265443	48.561	ug/l	96
47) Bromodichloromethane	9.38	83	715443	50.397	ug/l	99
48) Methyl methacrylate	9.12	41	238689	50.254	ug/l	97
49) 1,4-Dioxane	9.09	88	40992	1037.366	ug/l	93
51) 4-Methyl-2-Pentanone	10.30	43	1243655	262.446	ug/l	99
52) Toluene	10.51	92	868248	50.474	ug/l	99
53) t-1,3-Dichloropropene	10.91	75	633134	54.490	ug/l	100
54) cis-1,3-Dichloropropene	10.04	75	603148	47.758	ug/l	99
55) 1,1,2-Trichloroethane	11.19	97	277607	46.973	ug/l	94
56) Ethyl methacrylate	11.04	69	330537	52.334	ug/l	97
57) 1,3-Dichloropropane	11.41	76	449139	49.634	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.86	63	878724	271.003	ug/l	100
59) 2-Hexanone	11.53	43	878087	260.185	ug/l	99
60) Dibromochloromethane	11.69	129	555781	50.488	ug/l	97
61) 1,2-Dibromoethane	11.81	107	340108	48.726	ug/l	94
64) Tetrachloroethene	11.26	164	430593	46.503	ug/l	99
65) Chlorobenzene	12.40	112	994420	47.626	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	462292	47.344	ug/l	95
67) Ethyl Benzene	12.53	91	1780640	47.500	ug/l	100
68) m/p-Xylenes	12.68	106	1290198	98.817	ug/l	94
69) o-Xylene	13.05	106	607055	50.861	ug/l	100
70) Styrene	13.08	104	1036857	49.458	ug/l	92
71) Bromoform	13.24	173	341455	51.039	ug/l	93
73) Isopropylbenzene	13.40	105	1975932	51.400	ug/l	99
74) N-amyl acetate	13.27	43	515509	55.220	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	336633	53.745	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	362031	52.306	ug/l	96
77) Bromobenzene	13.67	156	503188	48.665	ug/l	90
78) n-propylbenzene	13.78	91	2171612	48.535	ug/l	97
79) 2-Chlorotoluene	13.85	91	1285408	50.271	ug/l	94
80) 1,3,5-Trimethylbenzene	13.94	105	1622557	50.250	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.47	75	94748	52.232	ug/l	88
82) 4-Chlorotoluene	13.95	91	1481387	48.123	ug/l	94
83) tert-Butylbenzene	14.19	119	1749664	48.613	ug/l	94
84) 1,2,4-Trimethylbenzene	14.24	105	1621524	48.995	ug/l	98
85) sec-Butylbenzene	14.37	105	1823239	46.608	ug/l	94
86) p-Isopropyltoluene	14.50	119	1832696	51.211	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	867557	46.807	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	896536	48.159	ug/l	96
89) n-Butylbenzene	14.80	91	1656783	49.463	ug/l	97
90) Hexachloroethane	15.01	117	476981	49.572	ug/l	84
91) 1,2-Dichlorobenzene	14.81	146	789475	49.784	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	67817	55.474	ug/l	76

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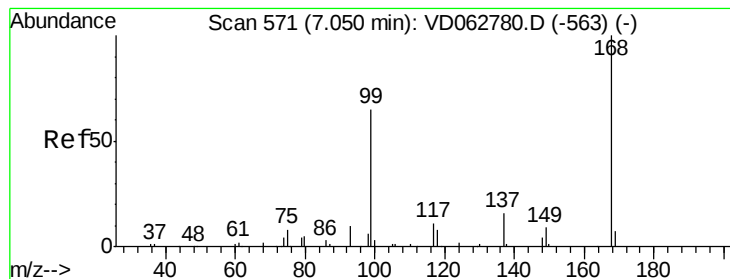
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	652462	52.670	ug/l	95
94) Hexachlorobutadiene	16.04	225	484107	51.154	ug/l	97
95) Naphthalene	16.13	128	936945	53.963	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	478417	50.265	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 988682

Ion Ratio Lower Upper

168 100

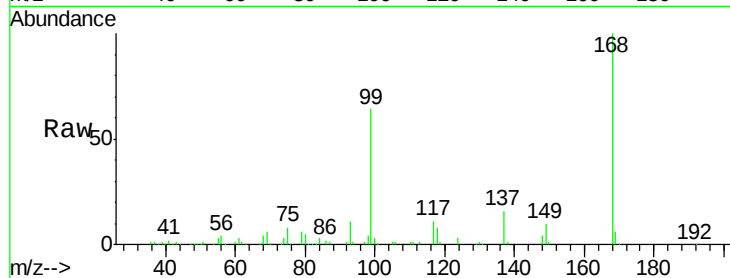
99 63.7 53.0 79.6

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

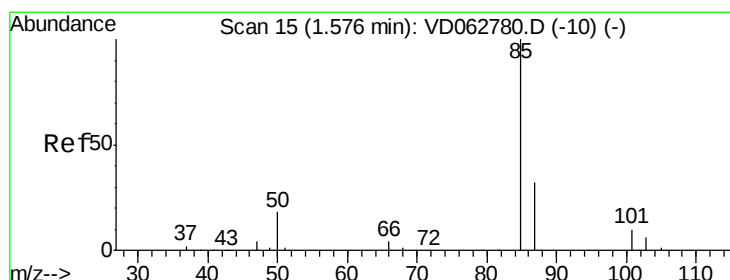
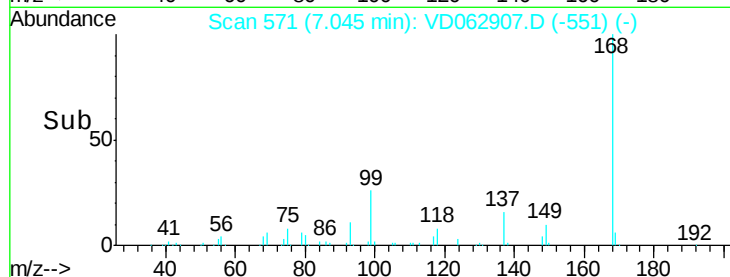
200000

100000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#2

Dichlorodifluoromethane

Concen: 42.707 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD062907.D

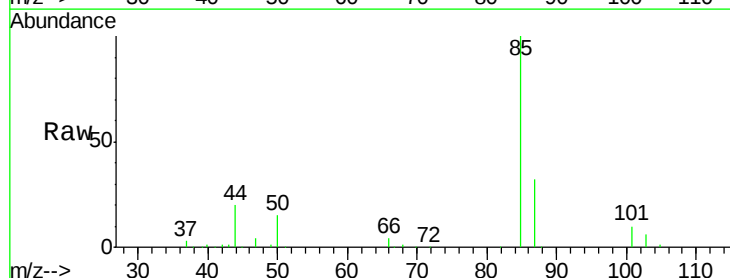
Acq: 26 Jun 2019 10:15

Tgt Ion: 85 Resp: 546386

Ion Ratio Lower Upper

85 100

87 31.5 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

250000

200000

150000

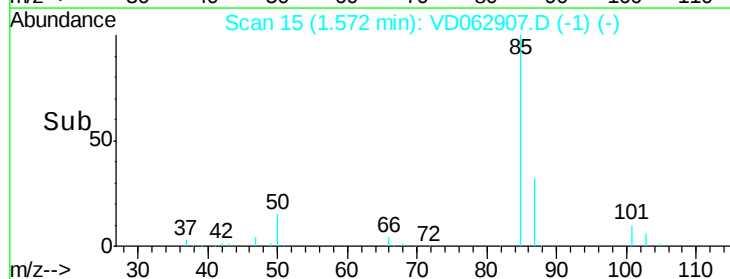
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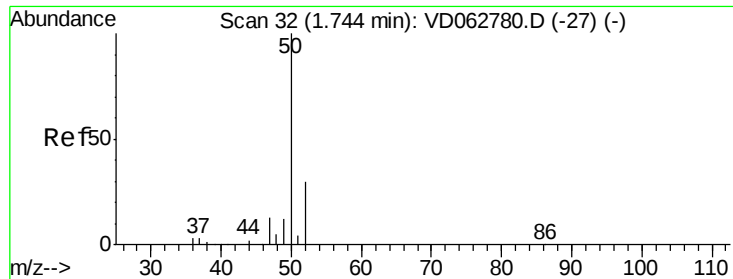
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 43.068 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 414396

Ion Ratio Lower Upper

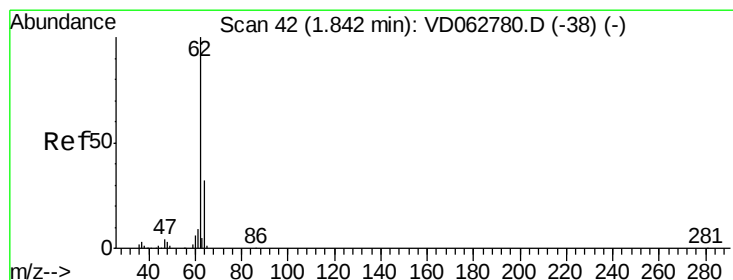
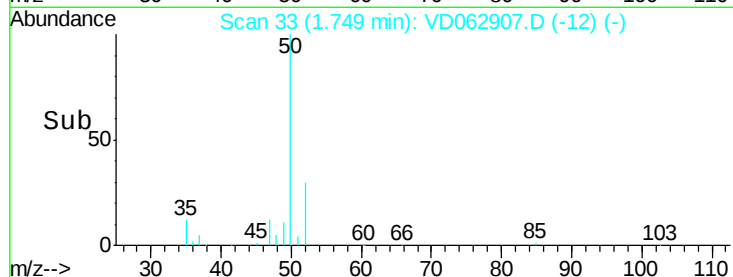
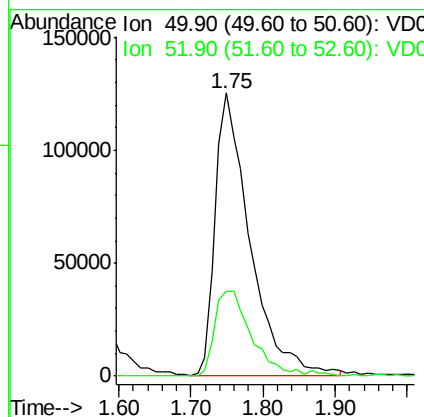
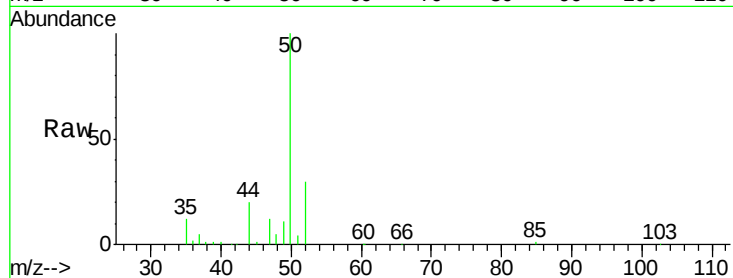
50 100

52 29.8 23.6 35.4

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#4

Vinyl Chloride

Concen: 46.063 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD062907.D

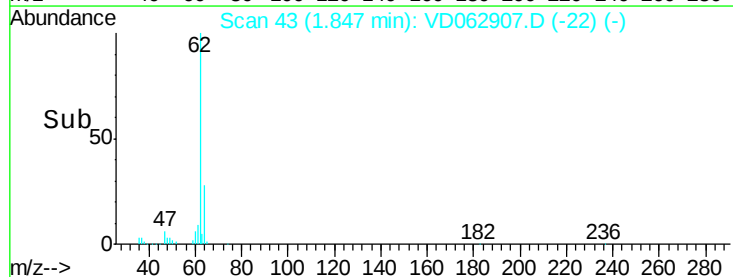
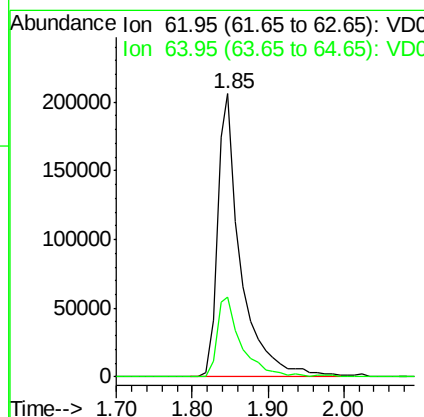
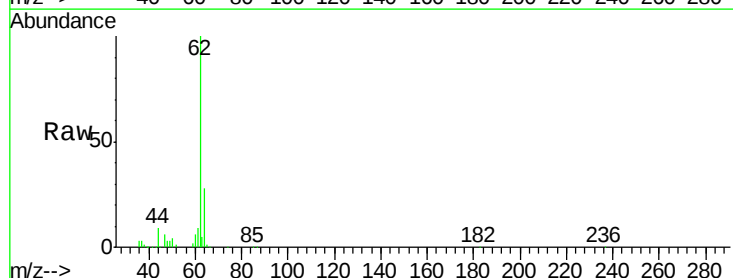
Acq: 26 Jun 2019 10:15

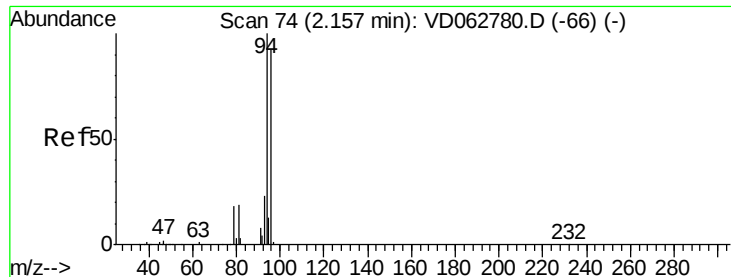
Tgt Ion: 62 Resp: 439441

Ion Ratio Lower Upper

62 100

64 28.3 25.6 38.4





#5

Bromomethane

Concen: 46.787 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

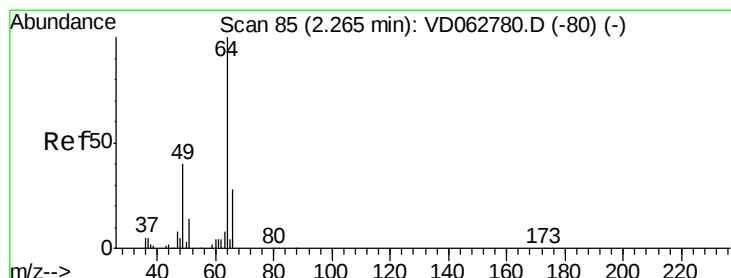
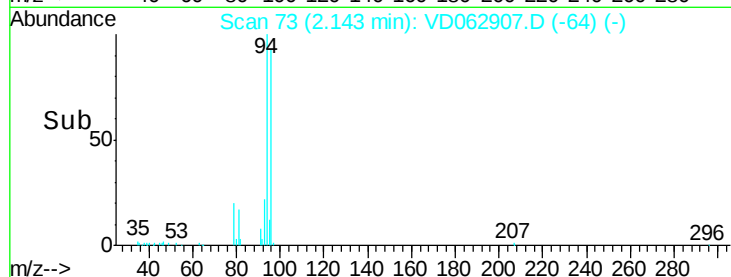
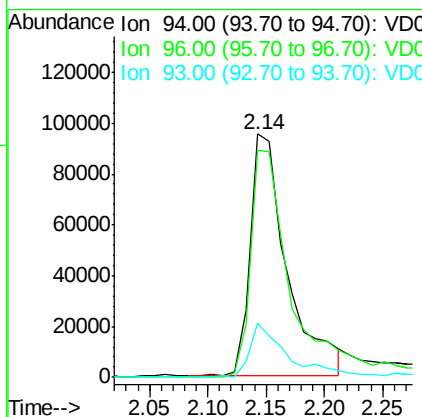
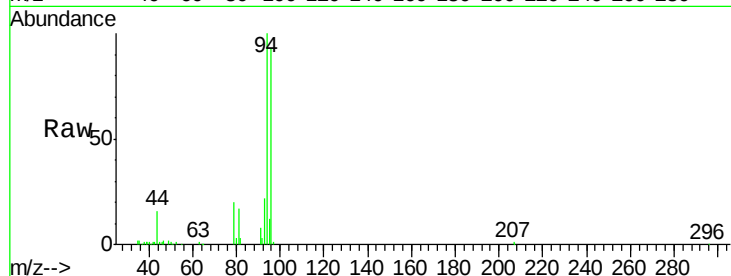
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	209033
Ion	Ratio	Lower	Upper
94	100		
96	93.0	73.4	110.2
93	22.1	18.2	27.4

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#6

Chloroethane

Concen: 46.803 ug/l

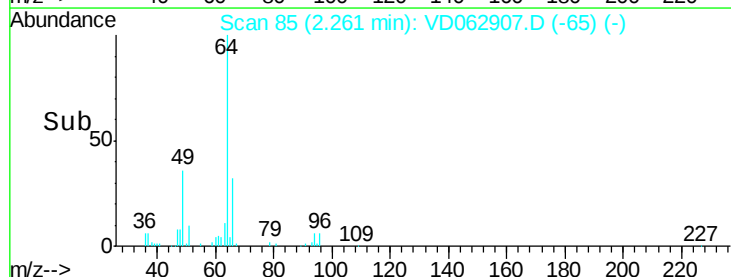
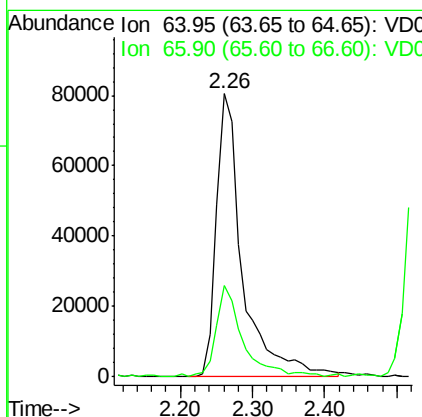
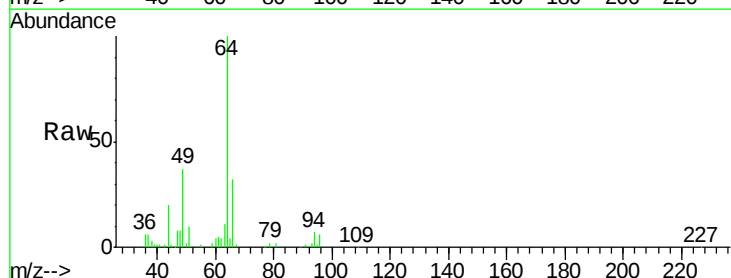
RT: 2.26 min Scan# 85

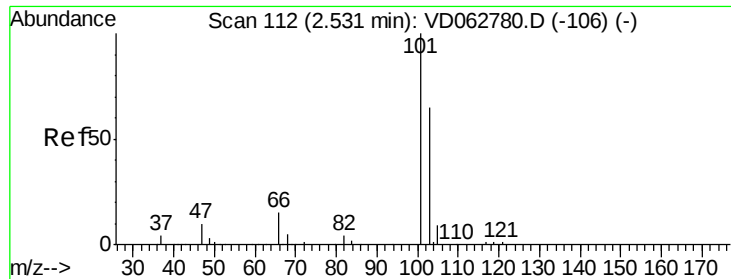
Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tgt Ion:	64	Resp:	202146
Ion	Ratio	Lower	Upper
64	100		
66	32.3	23.0	34.4





#7

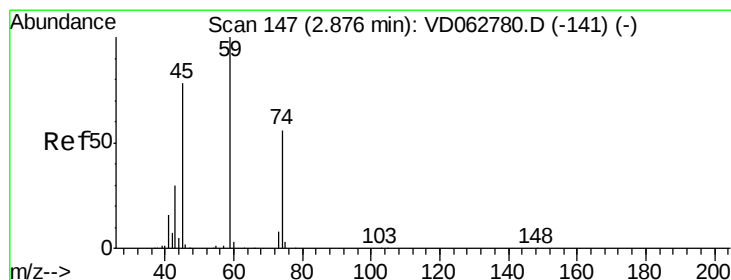
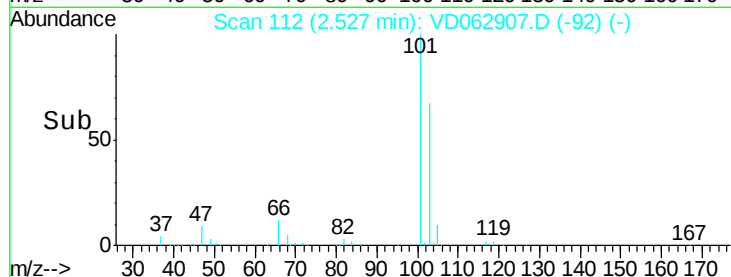
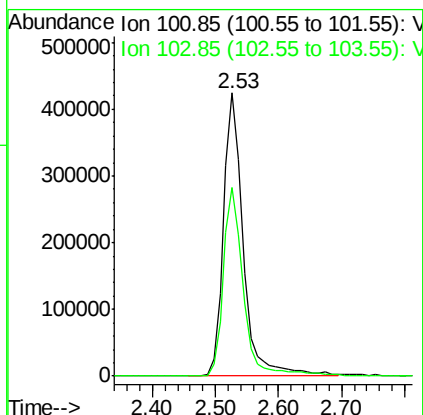
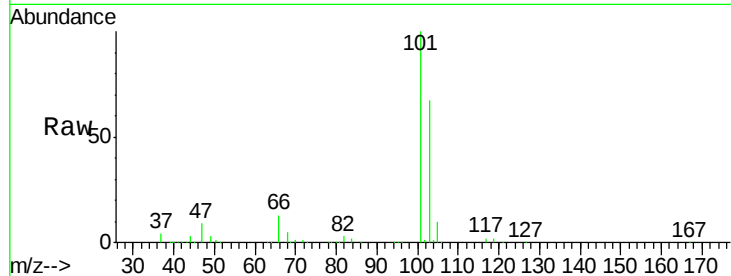
Trichlorofluoromethane
Concen: 48.278 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	932109		
103	66.8	51.8	77.8	

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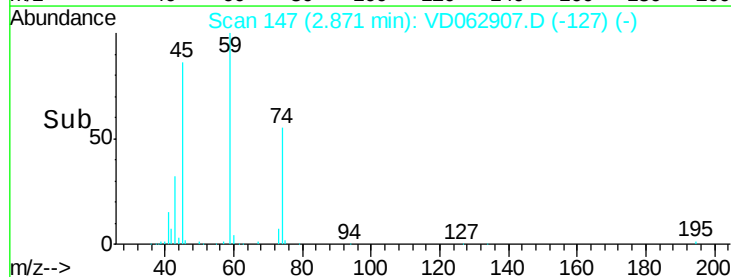
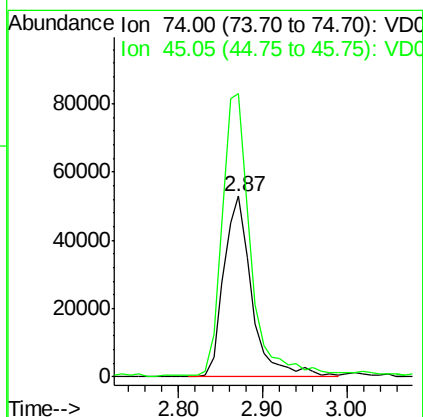
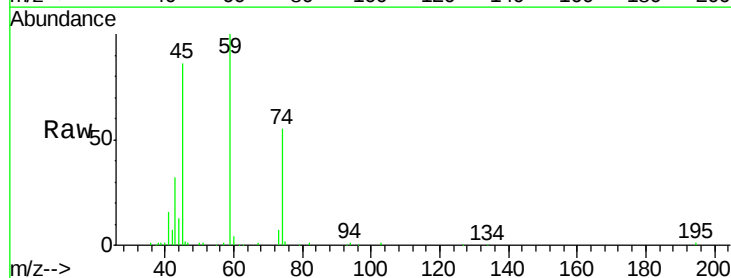
MMDadoda
6/29/2019 7:22:33 AM

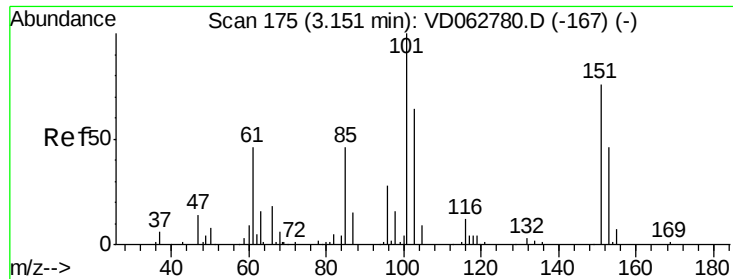


#8

Diethyl Ether
Concen: 49.975 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	122593		
45	156.6	70.2	210.6	





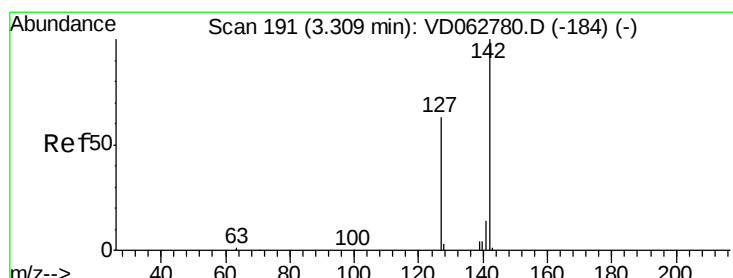
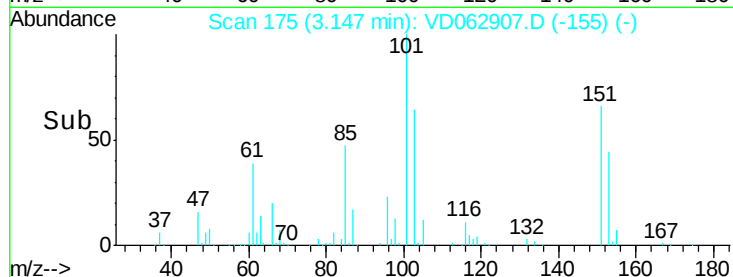
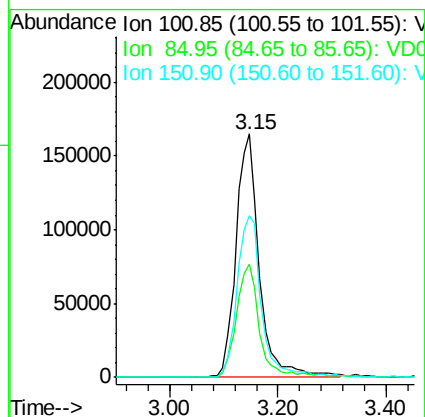
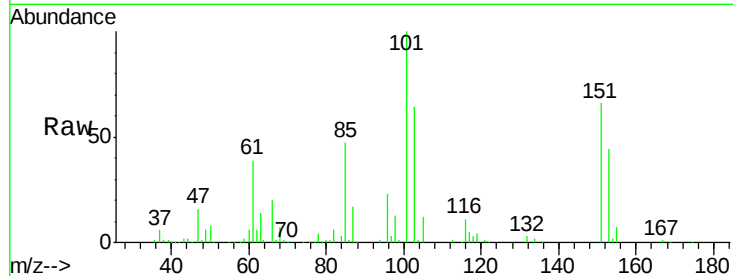
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 47.550 ug/l
 RT: 3.15 min Scan# 175
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	497353		
85	46.5	37.0	55.4	
151	66.2	60.5	90.7	

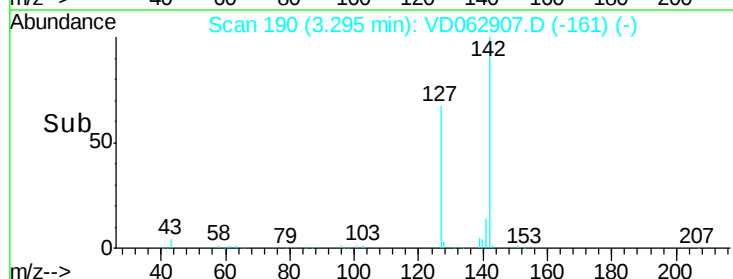
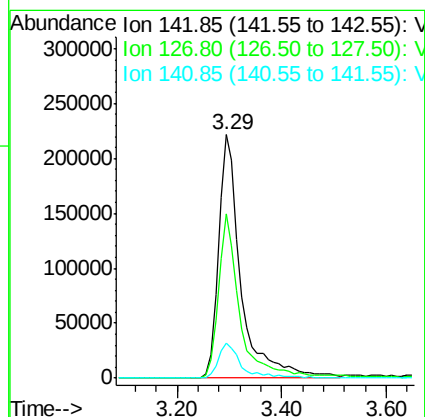
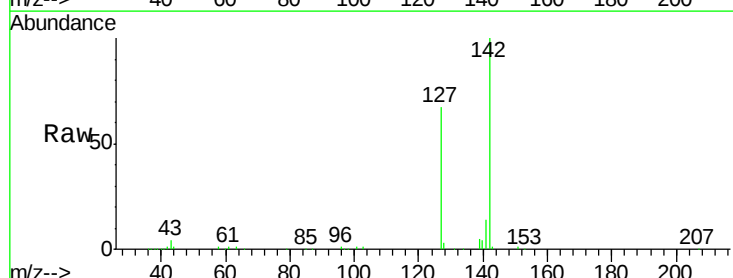
Manual Integrations
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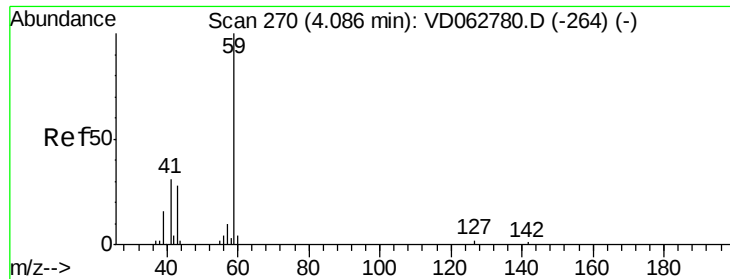
MMDadoda
 6/29/2019 7:22:33 AM



#10
 Methyl Iodide
 Concen: 47.799 ug/l
 RT: 3.29 min Scan# 190
 Delta R.T. -0.01 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	659589		
127	67.3	50.1	75.1	
141	14.4	11.0	16.4	





#11

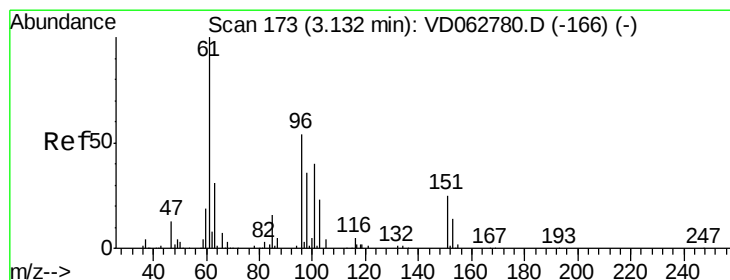
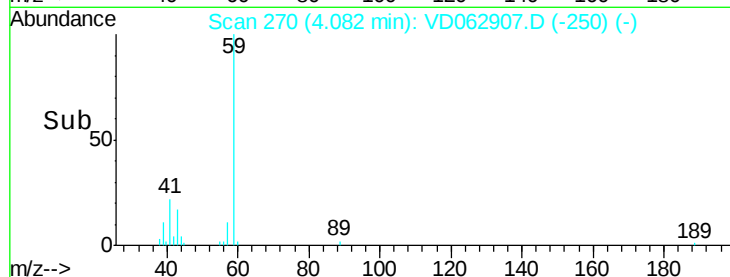
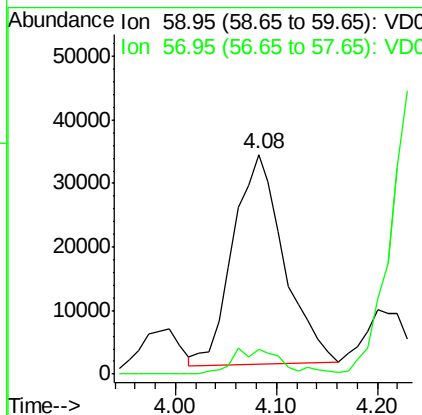
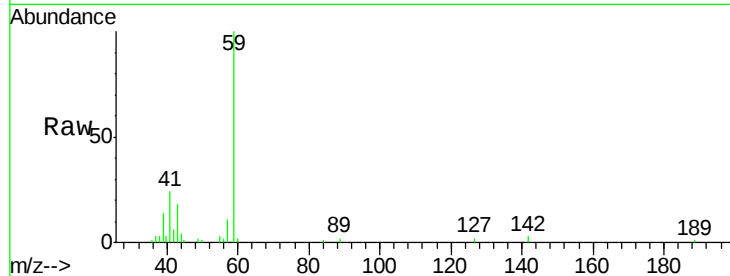
Tert butyl alcohol
Concen: 236.802 ug/l
RT: 4.08 min Scan# 270
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 115905
Ion Ratio Lower Upper
59 100
57 11.5 6.6 10.0#

Manual Integrations
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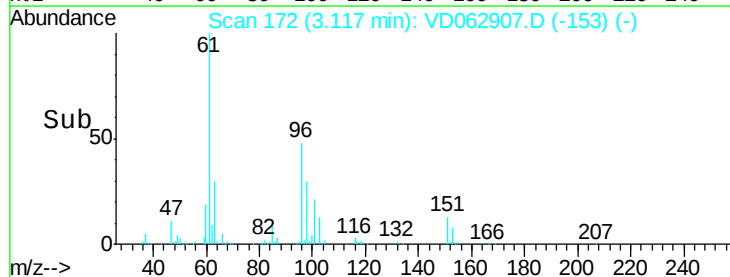
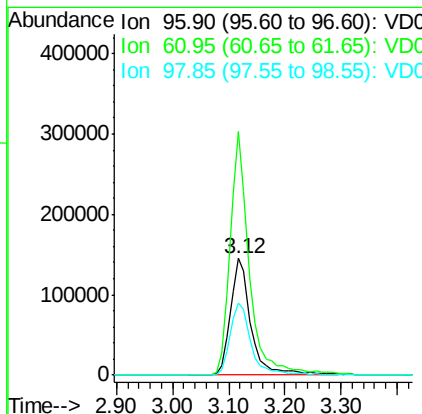
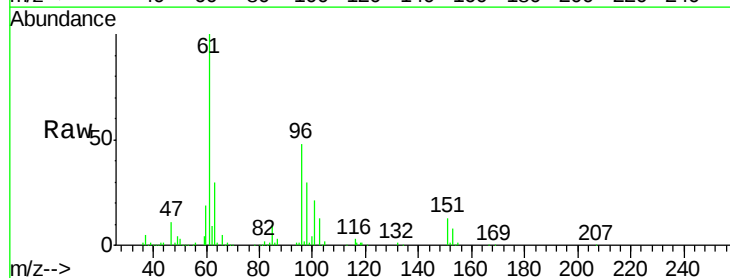
MMDadoda
6/29/2019 7:22:33 AM



#12

1,1-Dichloroethene
Concen: 46.957 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 96 Resp: 368446
Ion Ratio Lower Upper
96 100
61 209.1 147.1 220.7
98 61.9 52.6 79.0





#13

Acrolein

Concen: 266.039 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 132935

Ion Ratio Lower Upper

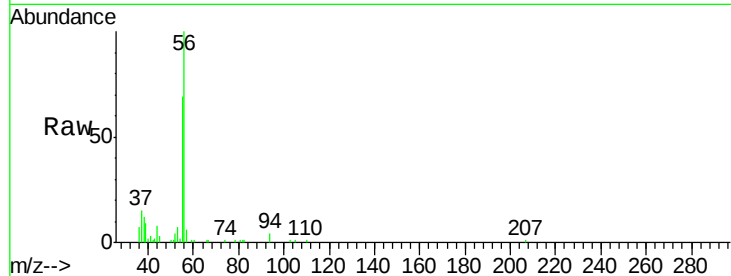
56 100

55 68.6 55.4 83.0

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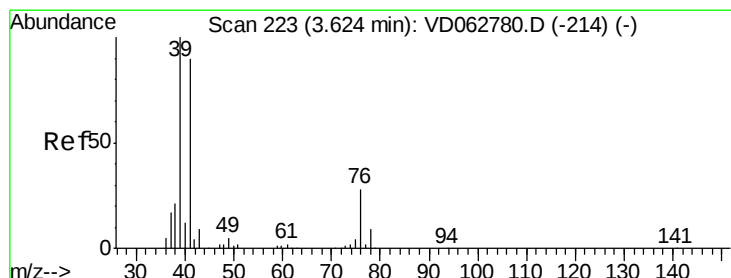
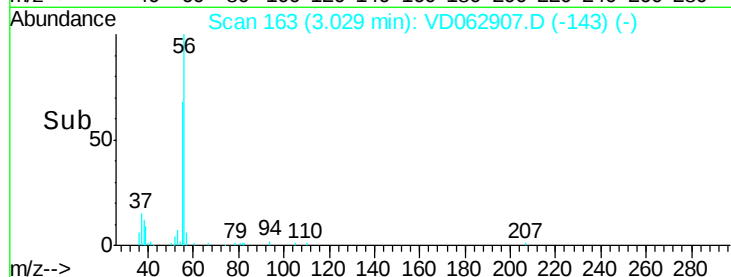
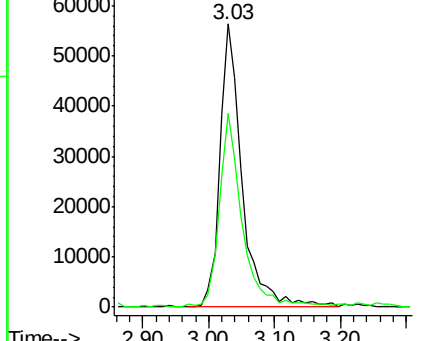
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 51.916 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

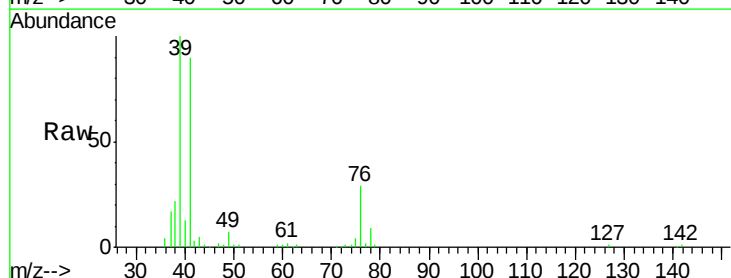
Tgt Ion: 41 Resp: 601915

Ion Ratio Lower Upper

41 100

39 110.9 88.8 133.2

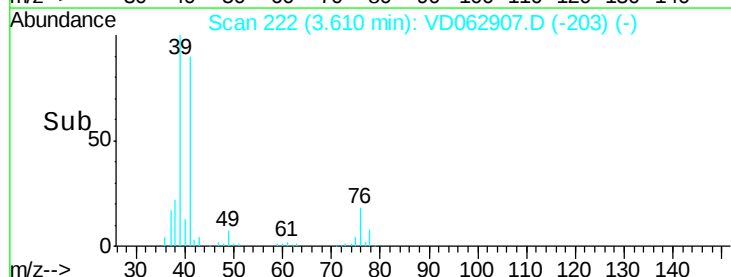
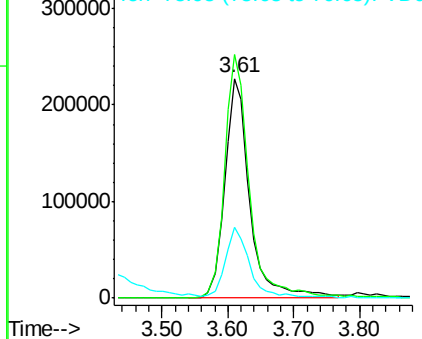
76 32.1 26.7 40.1

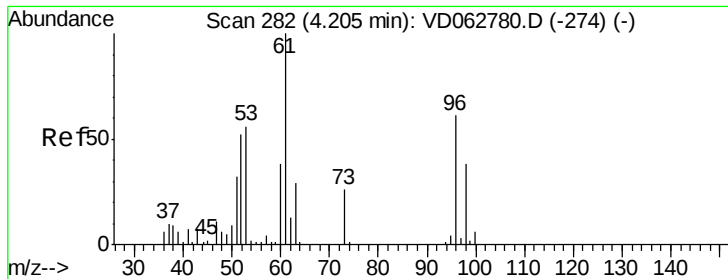


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





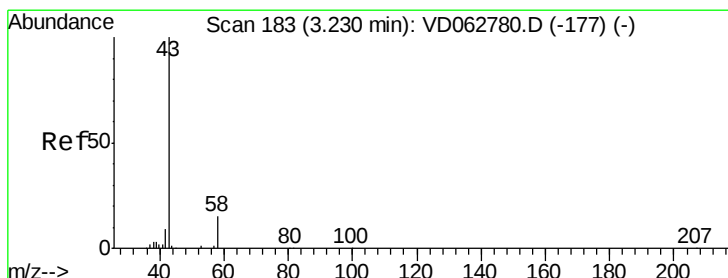
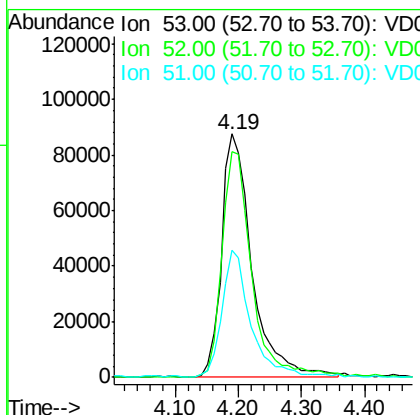
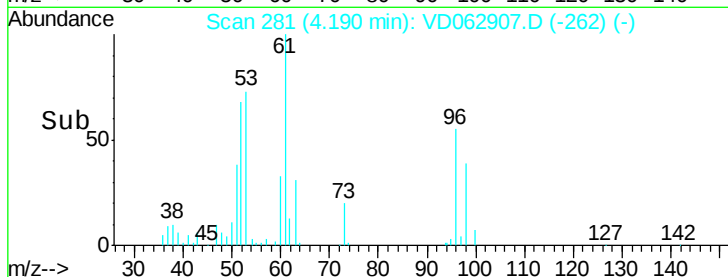
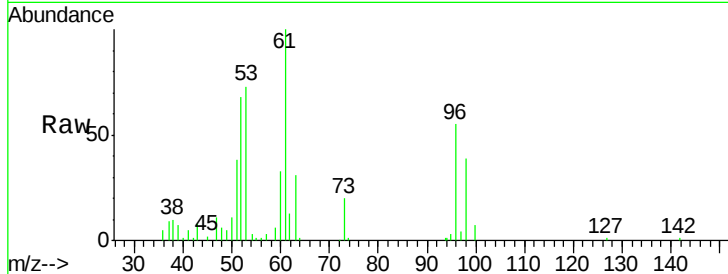
#15
 Acrylonitrile
 Concen: 255.591 ug/l
 RT: 4.19 min Scan# 281
 Delta R.T. -0.01 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
53	100	293955		
52	92.5	73.3	109.9	
51	52.5	44.8	67.2	

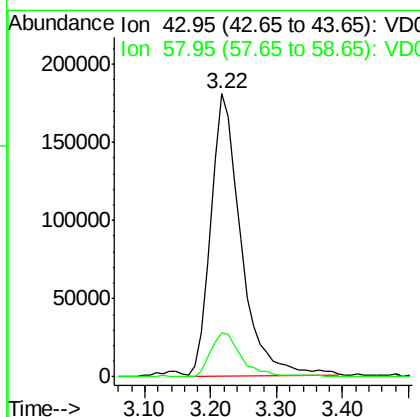
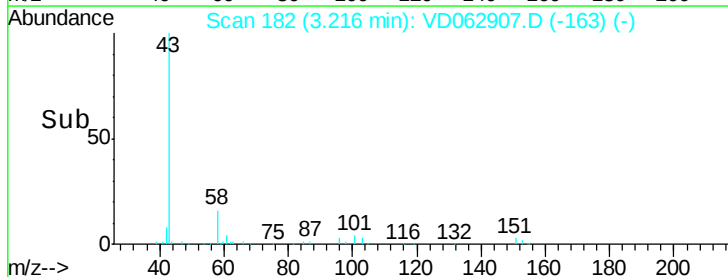
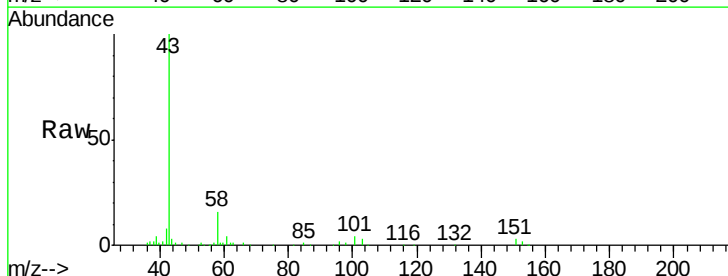
Manual Integrations
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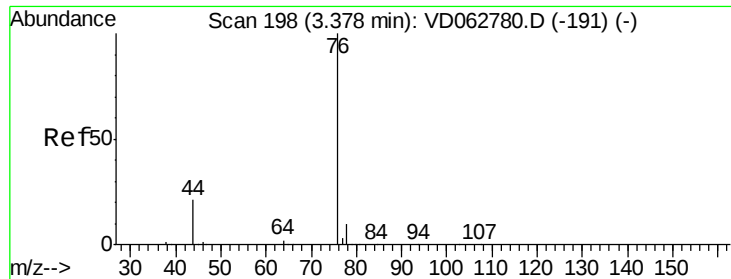
MMDadoda
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#16
 Acetone
 Concen: 260.590 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	567275		
58	15.7	11.9	17.9	





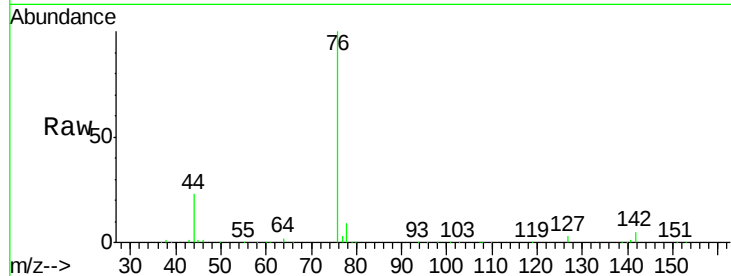
#17
Carbon Disulfide
Concen: 45.654 ug/l
RT: 3.36 min Scan# 197
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

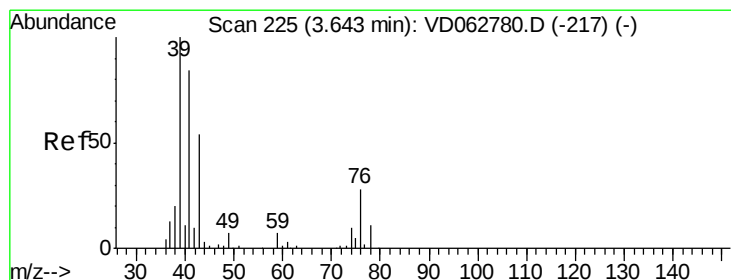
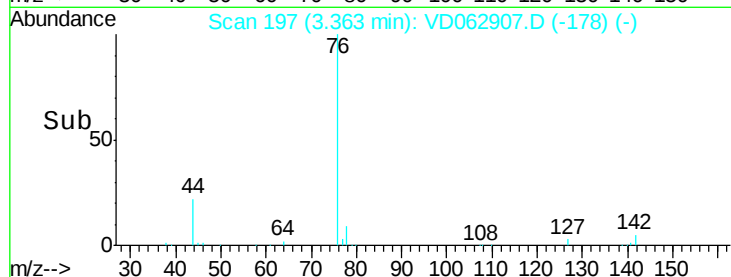
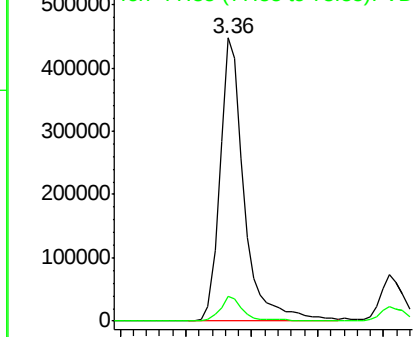
Tot Ion: 76 Resp: 1144867
Ion Ratio Lower Upper
76 100
78 8.8 8.0 12.0

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MMDadoda
6/29/2019 7:22:33 AM

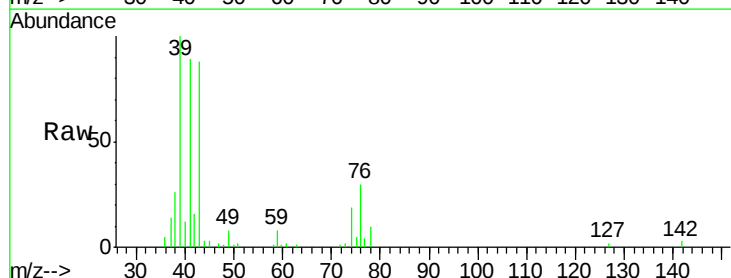


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

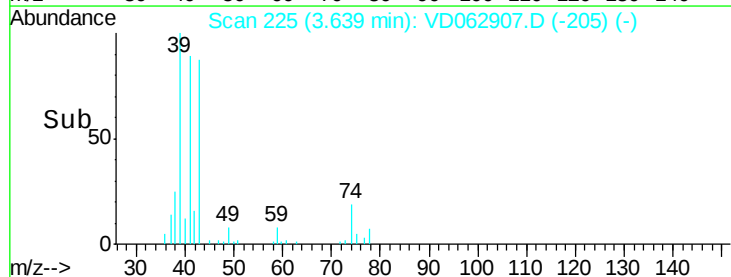
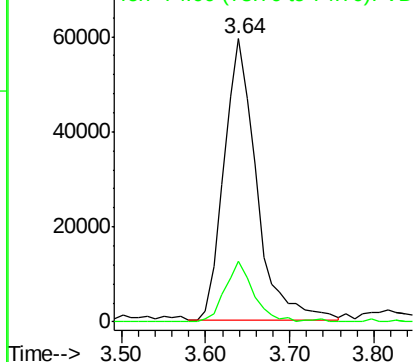


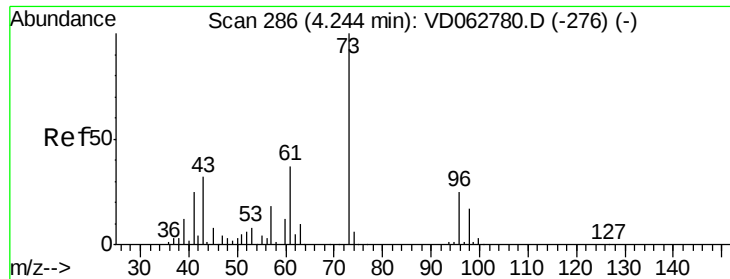
#18
Methyl Acetate
Concen: 48.997 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 43 Resp: 158957
Ion Ratio Lower Upper
43 100
74 21.6 15.2 22.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC





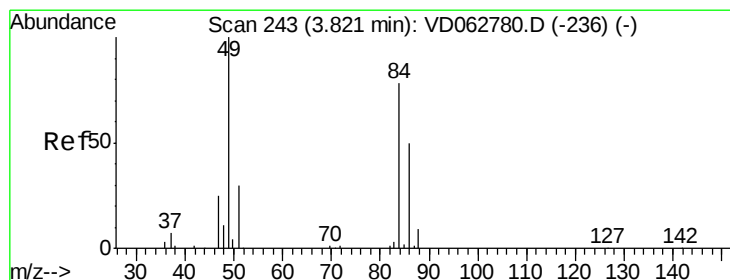
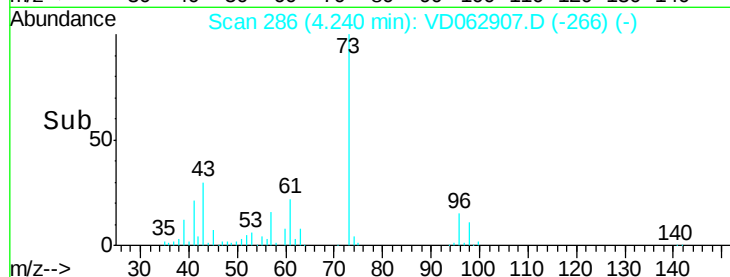
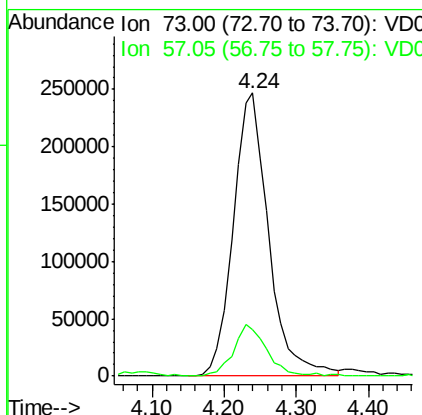
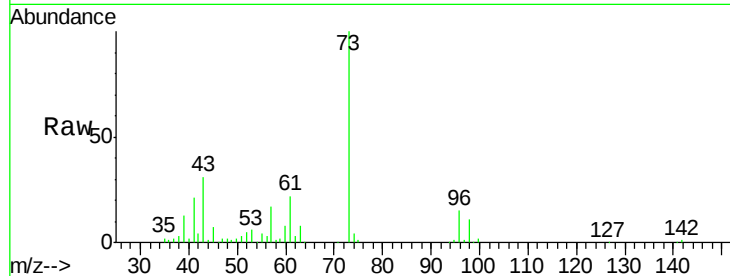
#19
Methvl tert-butvl Ether
Concen: 49.615 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 842772
Ion Ratio Lower Upper
73 100
57 16.7 14.3 21.5

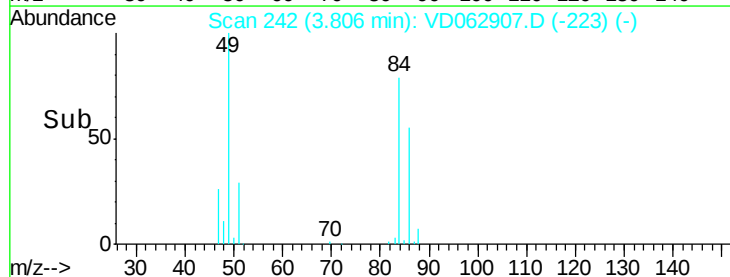
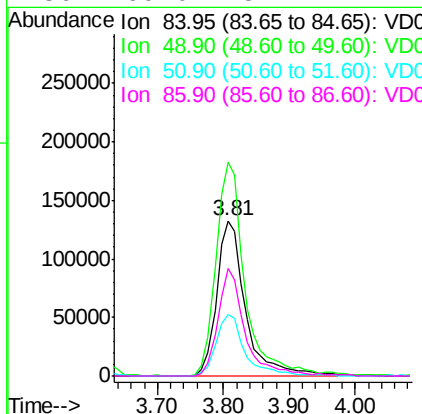
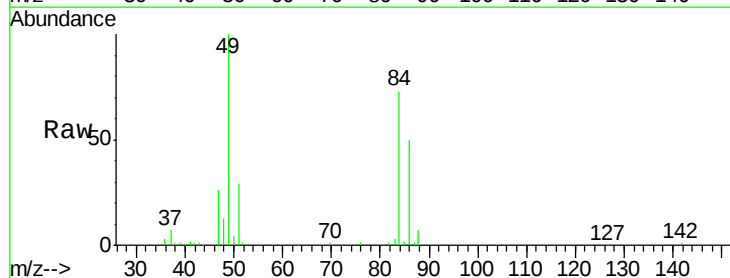
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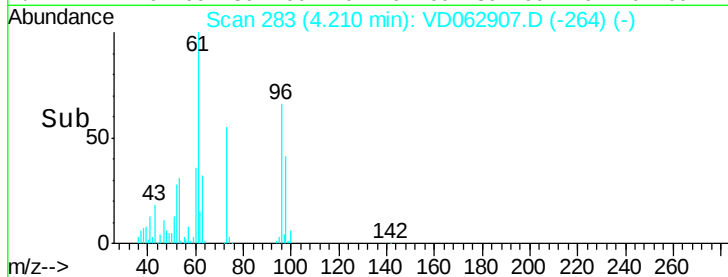
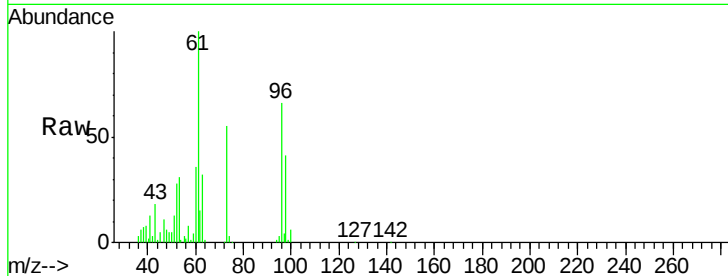
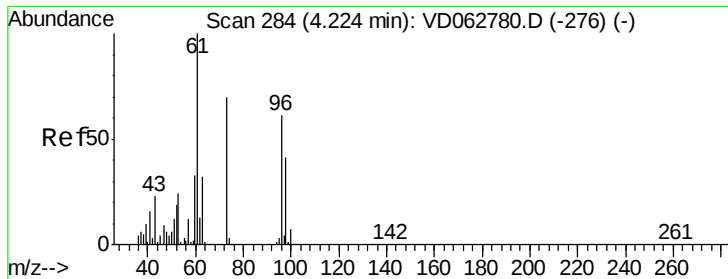
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6/29/2019 7:22:33 AM



#20
Methylene Chloride
Concen: 49.037 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 84 Resp: 401909
Ion Ratio Lower Upper
84 100
49 137.6 102.9 154.3
51 39.3 31.2 46.8
86 69.0 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 47.124 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tot Ion:	96	Resp:	393713
Ion	Ratio	Lower	Upper
96	100		
61	151.3	131.0	196.4
98	61.3	53.2	79.8

Instrument :

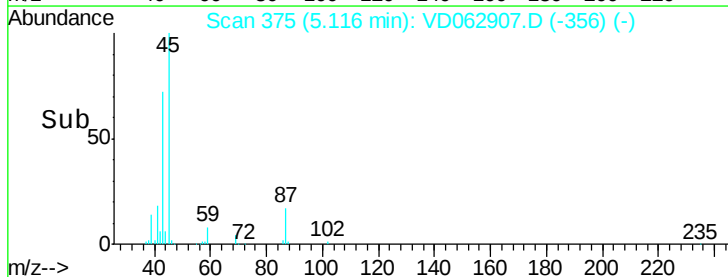
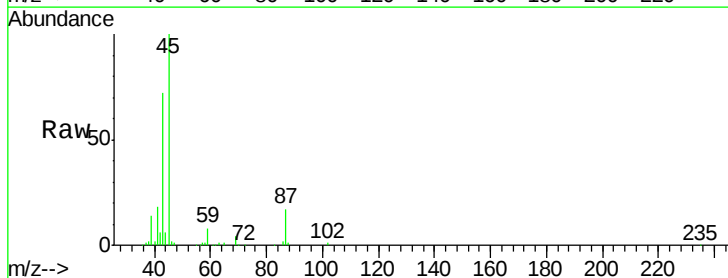
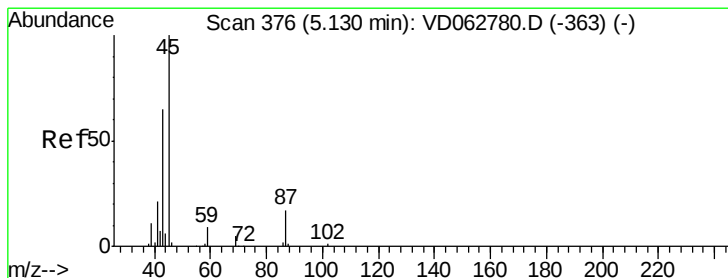
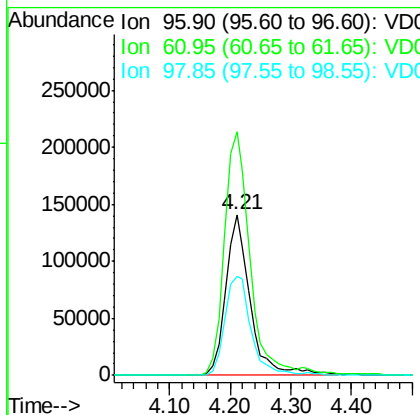
MSVOA_D

ClientSampleId :

VSTDCCC050

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#22

Diisopropyl ether

Concen: 48.499 ug/l

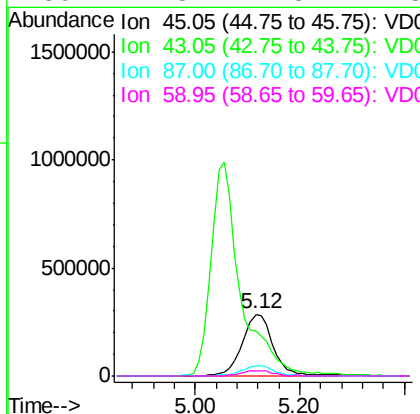
RT: 5.12 min Scan# 375

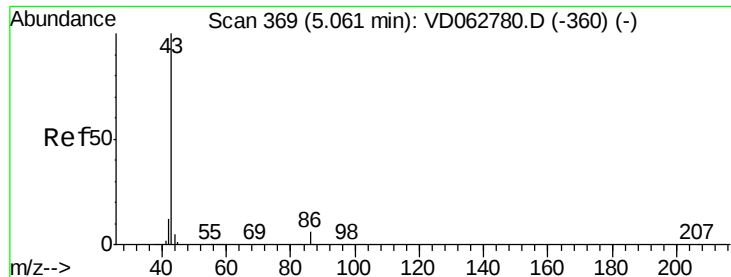
Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tgt Ion:	45	Resp:	1143518
Ion	Ratio	Lower	Upper
45	100		
43	72.1	53.4	80.0
87	17.3	14.6	22.0
59	7.8	7.8	11.8#





#23

Vinyl Acetate

Concen: 261.866 ug/l

RT: 5.06 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3863560

Ion Ratio Lower Upper

43 100

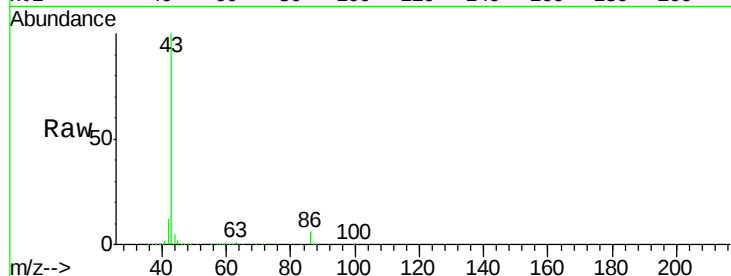
86 6.3 4.7 7.1

Manual Integrations

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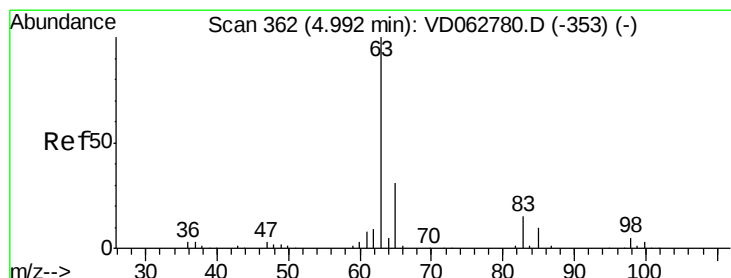
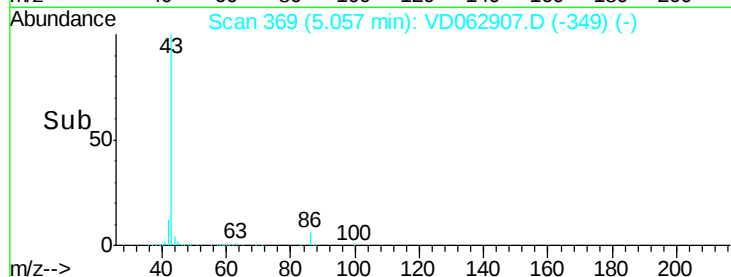
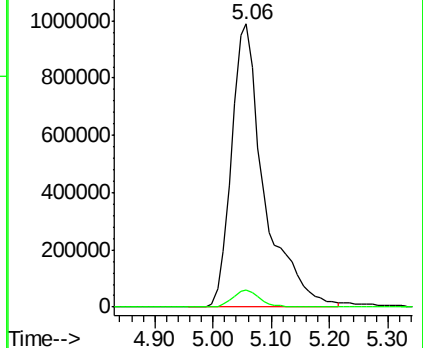
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.250 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

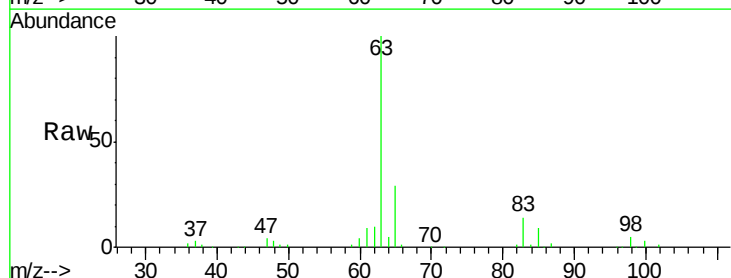
Tgt Ion: 63 Resp: 756058

Ion Ratio Lower Upper

63 100

98 5.8 2.3 6.9

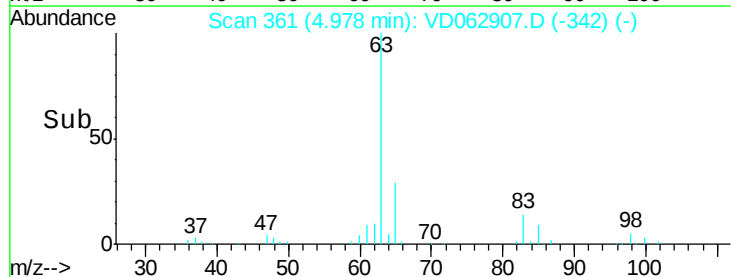
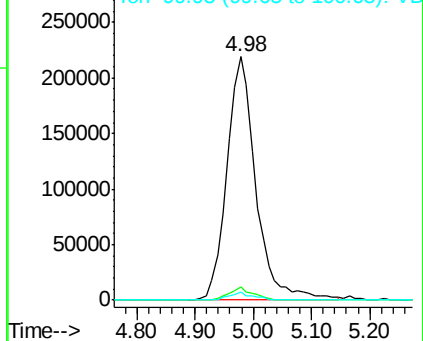
100 3.2 1.7 5.1

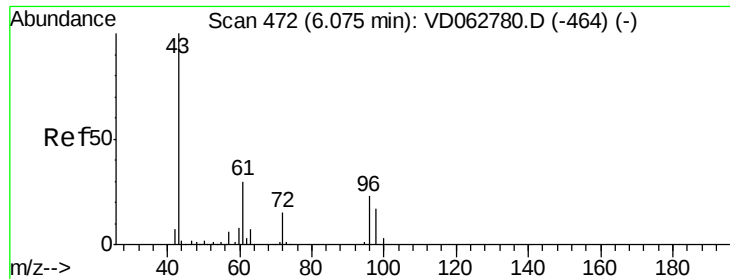


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 274.490 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 551720

Ion Ratio Lower Upper

43 100

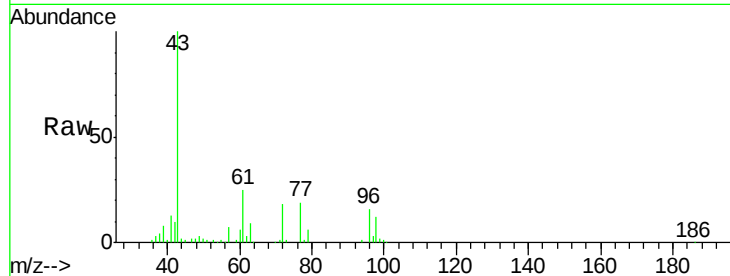
72 18.4 11.9 17.9#

Manual Integrations

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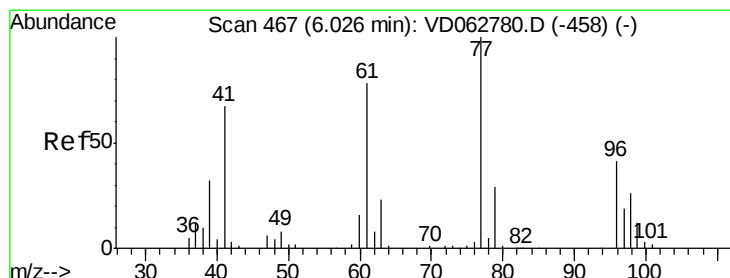
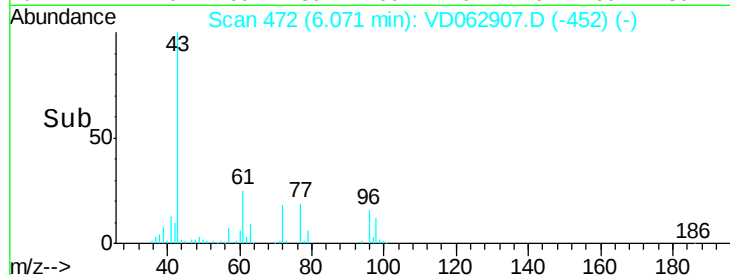
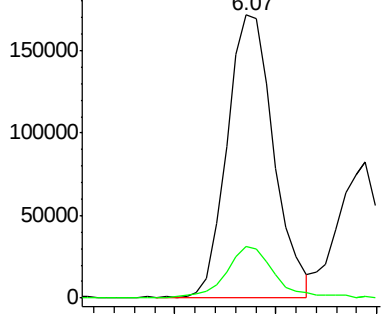
MMDadoda

6/29/2019 7:22:33 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 50.331 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.00 min

Lab File: VD062907.D

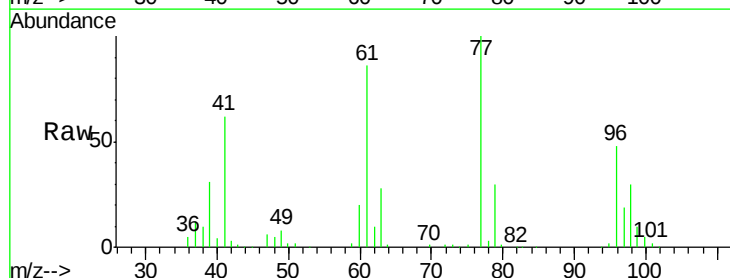
Acq: 26 Jun 2019 10:15

Tgt Ion: 77 Resp: 818971

Ion Ratio Lower Upper

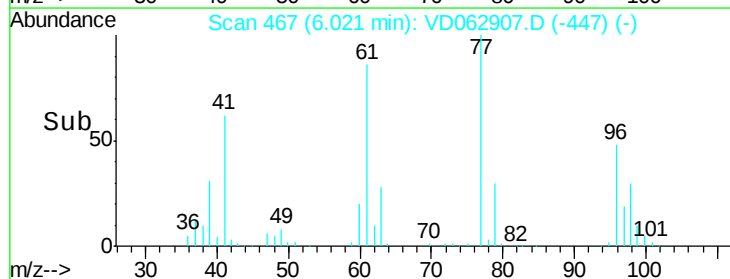
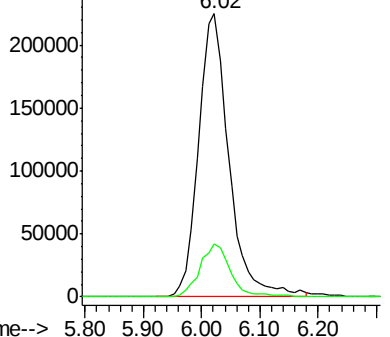
77 100

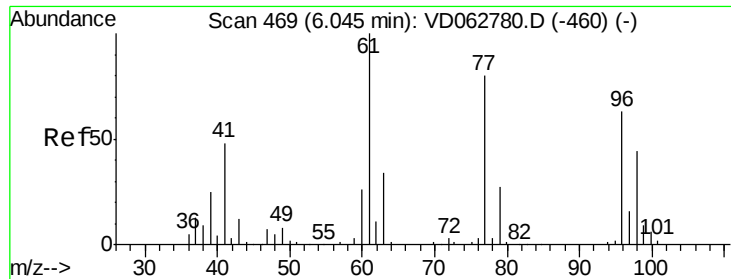
97 18.7 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

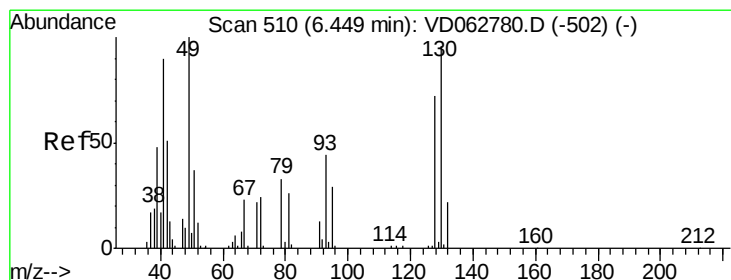
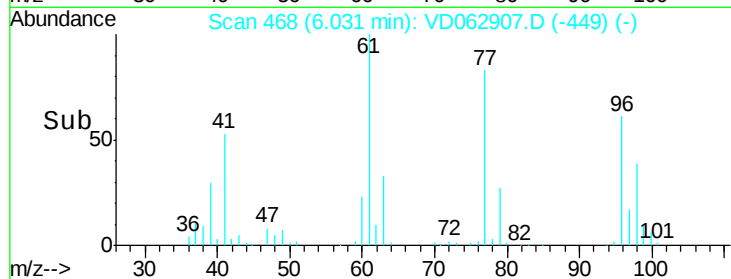
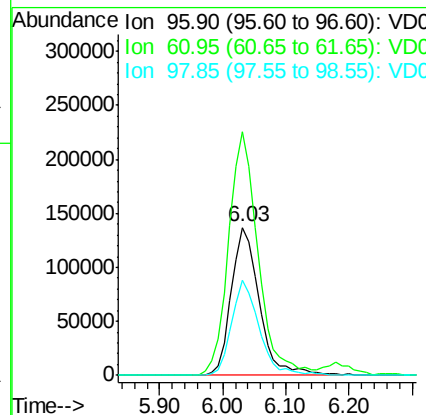
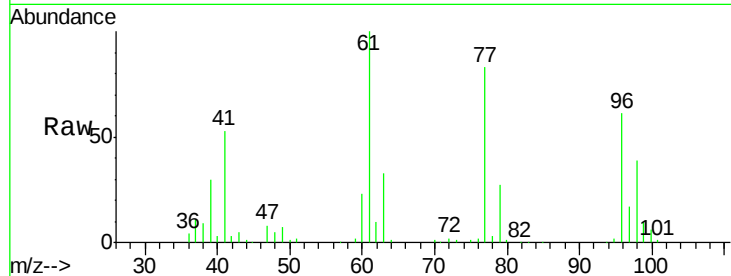
cis-1,2-Dichloroethene
Concen: 47.850 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	422760		
61	164.5	0.0	316.0	
98	64.1	0.0	138.4	

Manual Integrations
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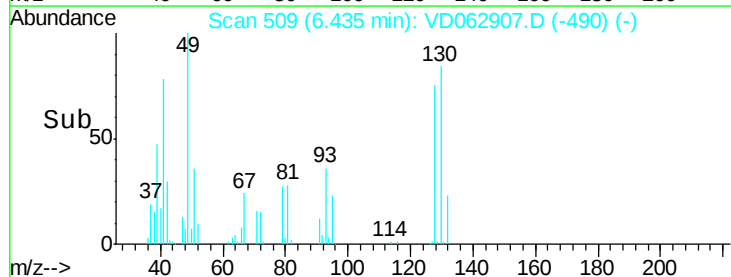
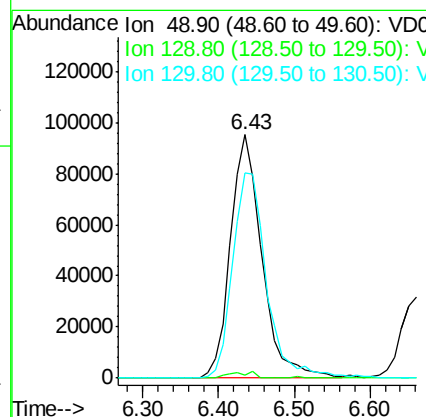
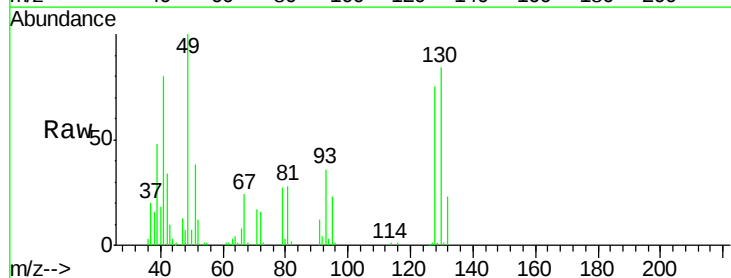
MMDadoda
6/29/2019 7:22:33 AM

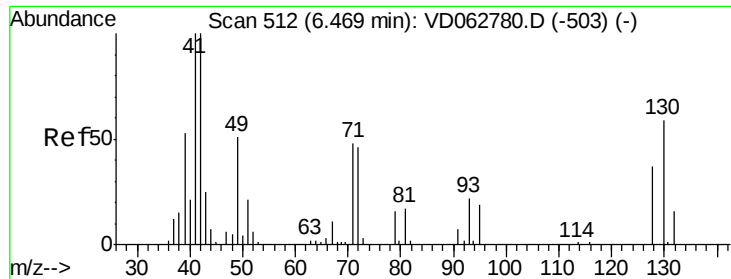


#28

Bromochloromethane
Concen: 50.681 ug/l
RT: 6.43 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	274017		
129	1.3	0.0	5.6	
130	84.5	76.6	114.8	





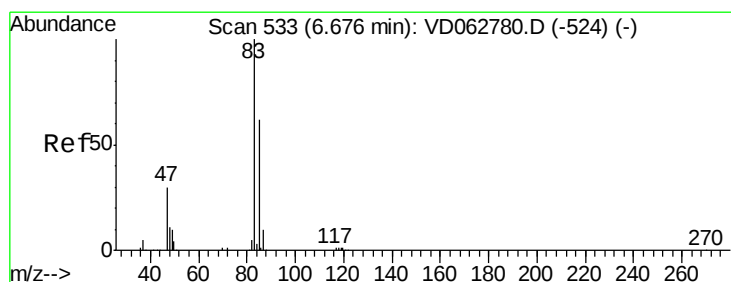
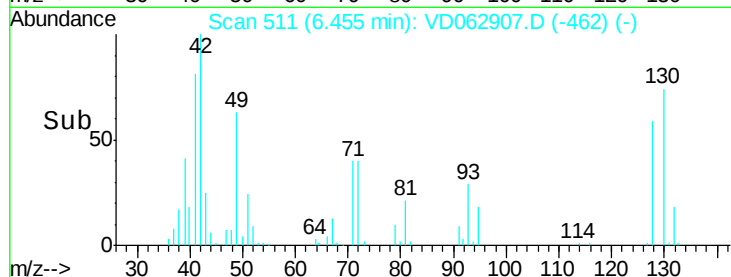
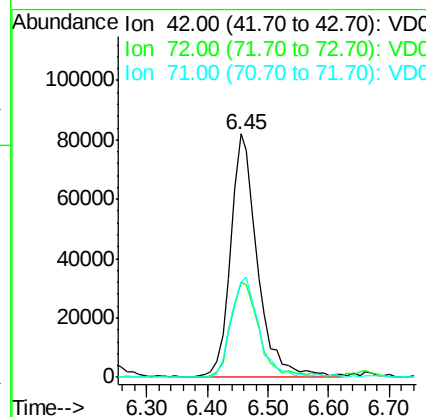
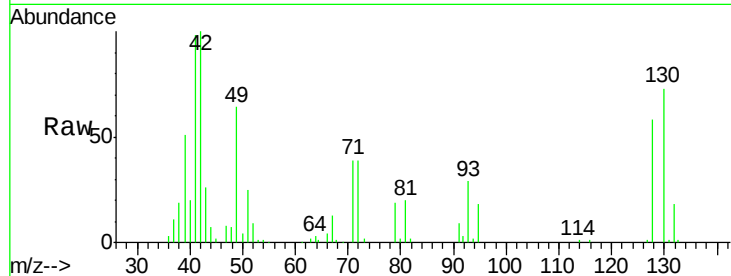
#29
Tetrahydrofuran
Concen: 265.610 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	41.6	35.0	52.6	
71	43.0	33.3	49.9	

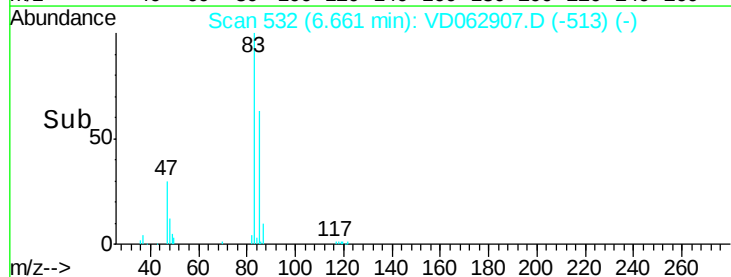
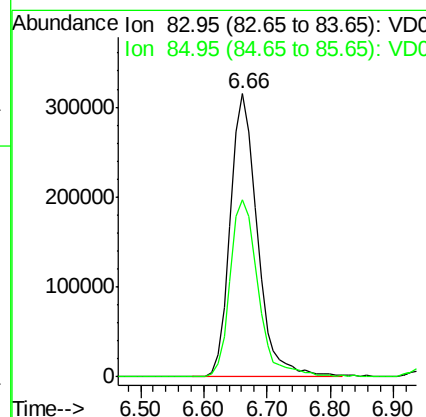
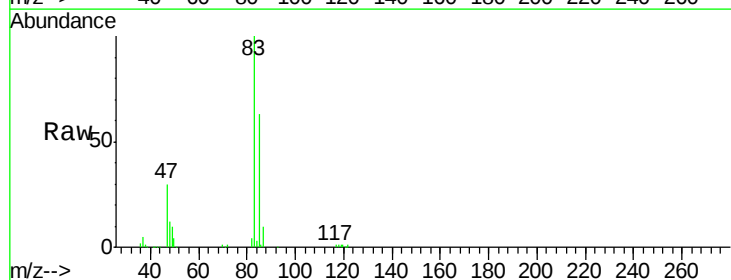
Manual Integrations
APPROVED

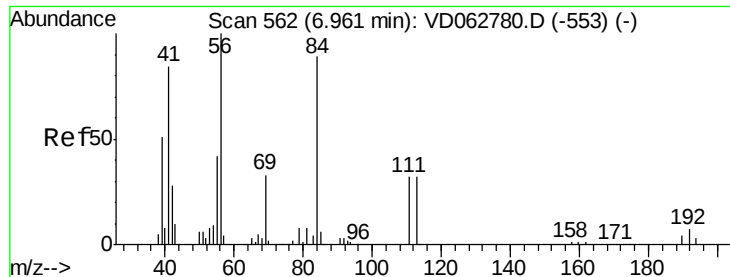
MMDadoda
6/29/2019 7:22:33 AM



#30
Chloroform
Concen: 50.108 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	62.5	49.8	74.6	





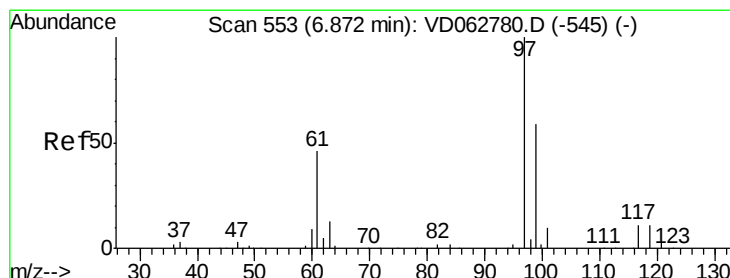
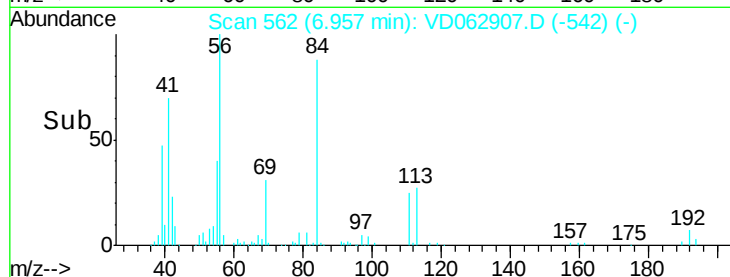
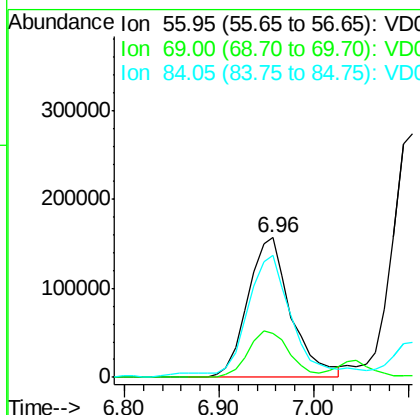
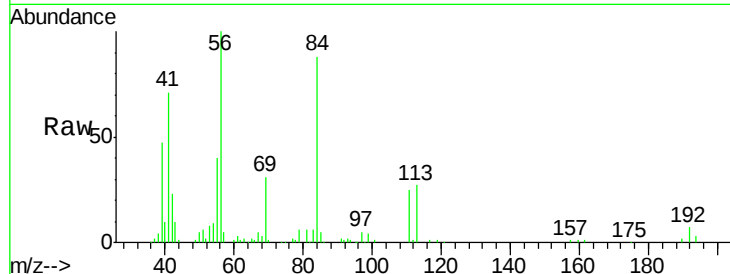
#31
Cyclohexane
Concen: 49.213 ug/l
RT: 6.96 min Scan# 562
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.2	26.6	39.8
84	87.6	75.5	113.3

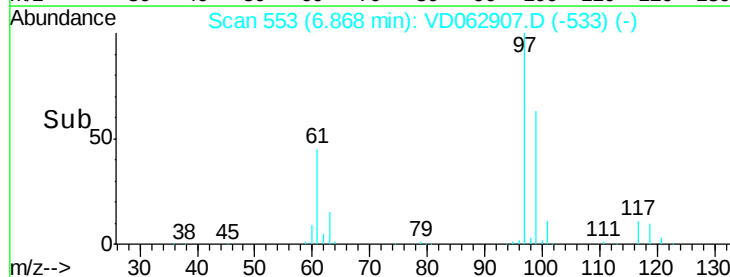
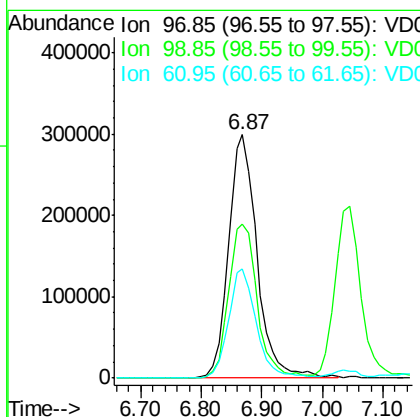
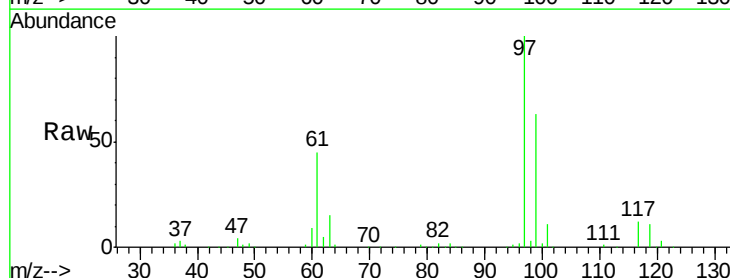
Manual Integrations
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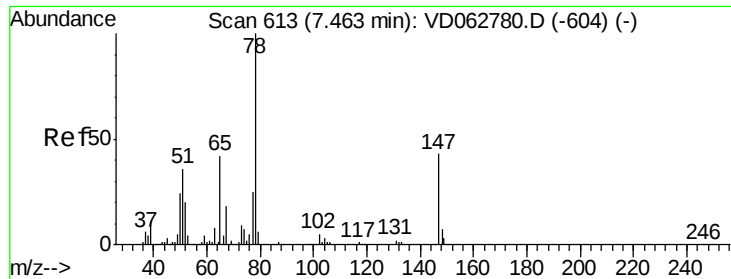
MMDadoda
6/29/2019 7:22:33 AM



#32
1,1,1-Trichloroethane
Concen: 50.017 ug/l
RT: 6.87 min Scan# 553
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	47.4	71.2
61	44.6	37.2	55.8





#33

1,2-Dichloroethane-d4

Concen: 45.723 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 491380

Ion Ratio Lower Upper

65 100

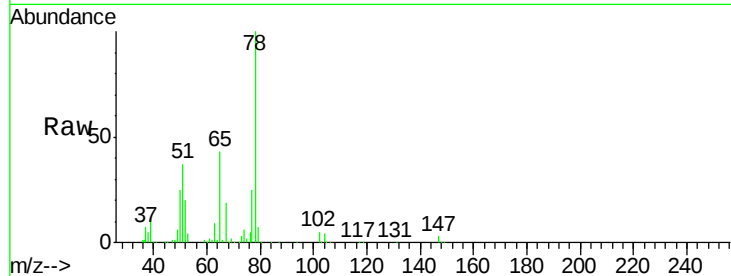
67 43.5 0.0 87.4

Manual Integrations

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6/29/2019 7:22:33 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

200000

150000

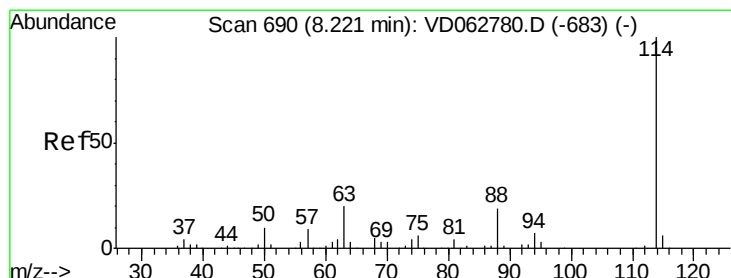
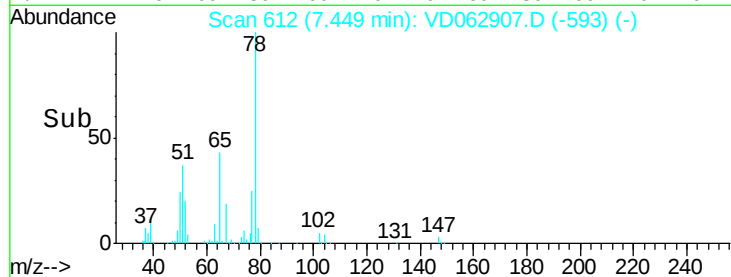
100000

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: VD062907.D

Acq: 26 Jun 2019 10:15

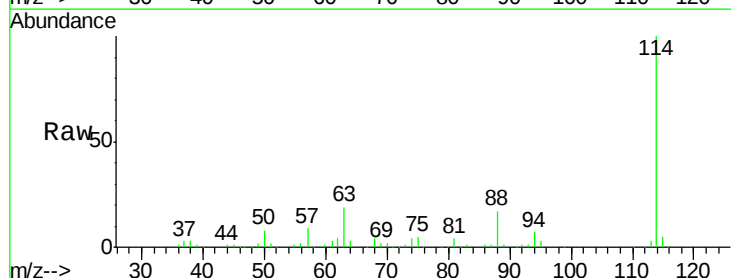
Tgt Ion: 114 Resp: 1346730

Ion Ratio Lower Upper

114 100

63 18.9 0.0 40.0

88 17.2 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

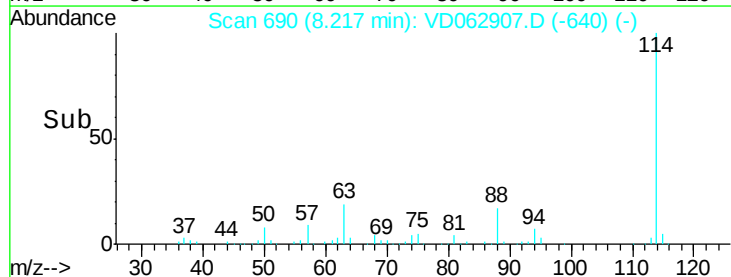
400000

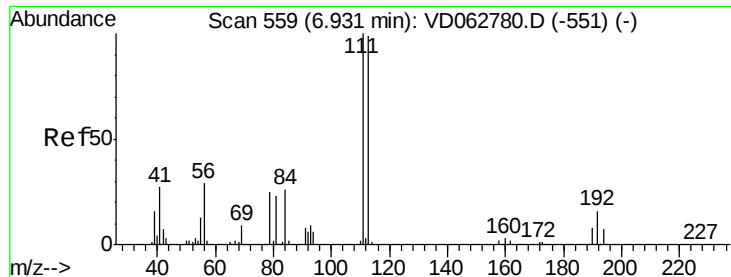
200000

0

8.10 8.20 8.30 8.40 8.50

Time-->





#35

Dibromofluoromethane

Concen: 45.799 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

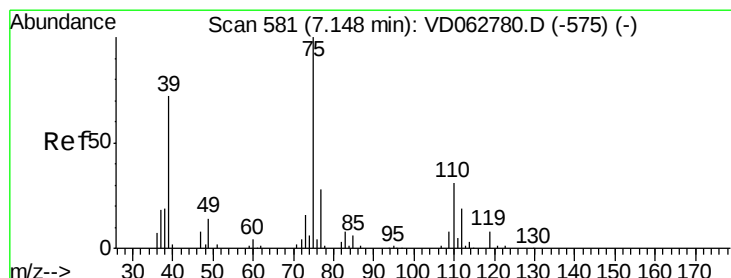
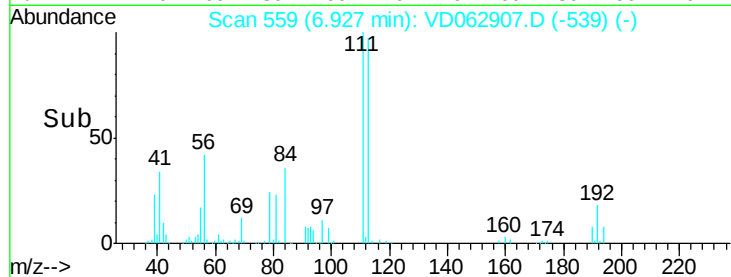
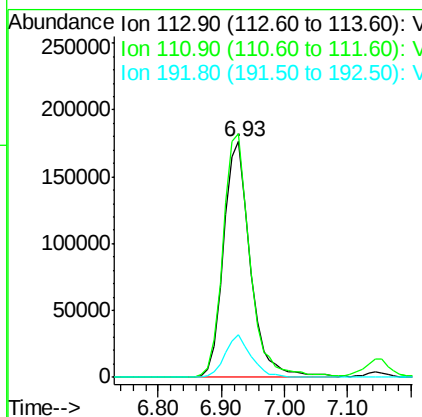
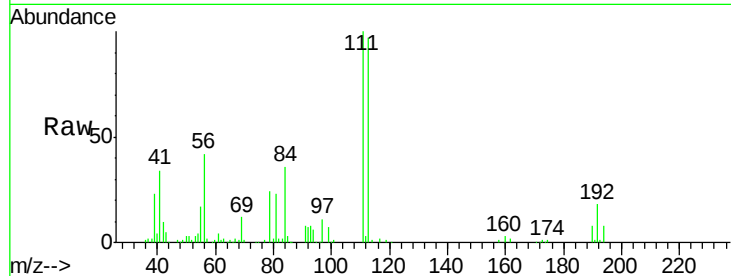
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	520071
Ion Ratio	Lower	Upper	
113	100		
111	103.3	81.2	121.8
192	18.2	12.9	19.3

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 48.357 ug/l

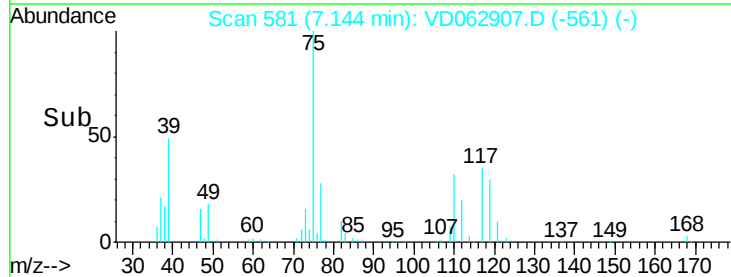
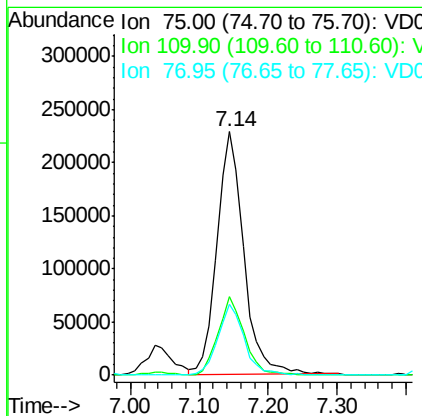
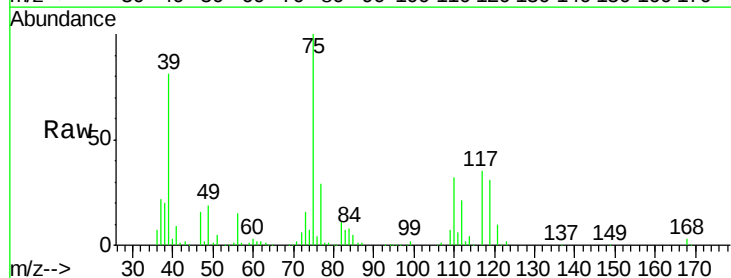
RT: 7.14 min Scan# 581

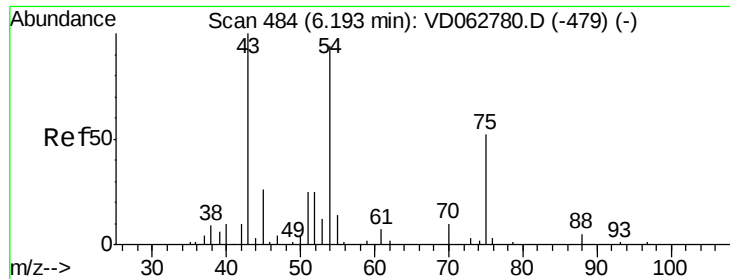
Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tgt Ion:	75	Resp:	616492
Ion Ratio	Lower	Upper	
75	100		
110	32.3	15.0	45.1
77	28.9	22.2	33.2





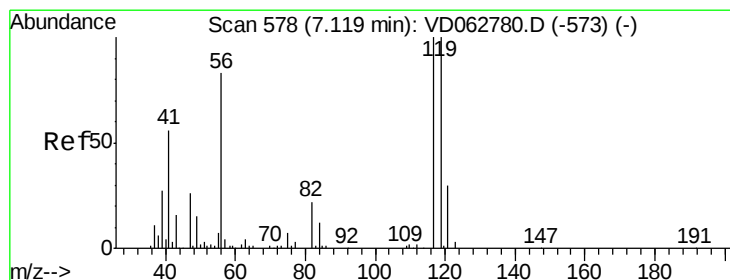
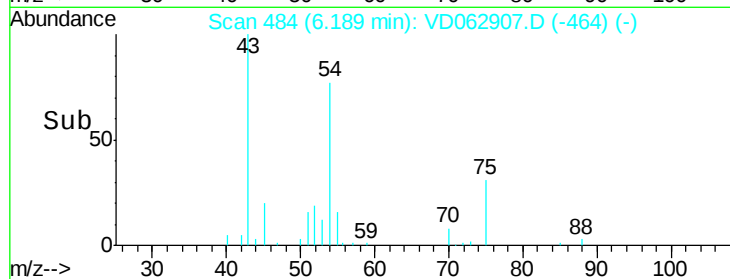
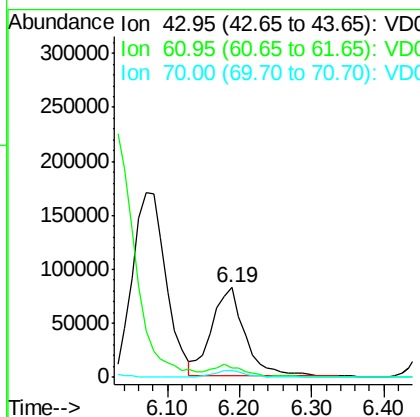
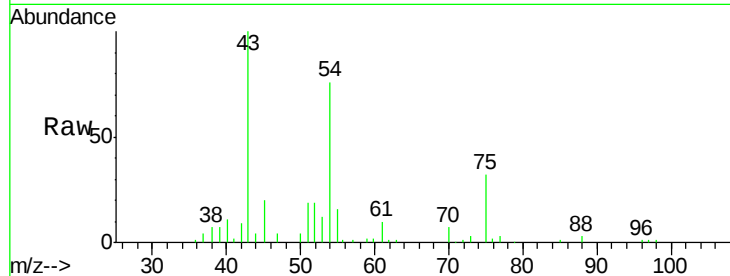
#37
Ethyl Acetate
Concen: 48.523 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	9.9	11.6	17.4#
70	7.5	6.4	9.6

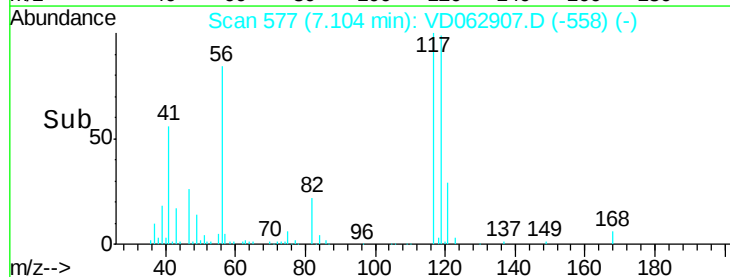
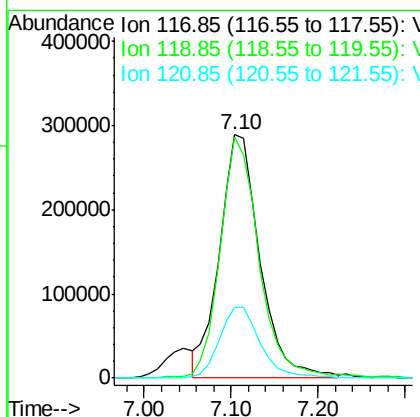
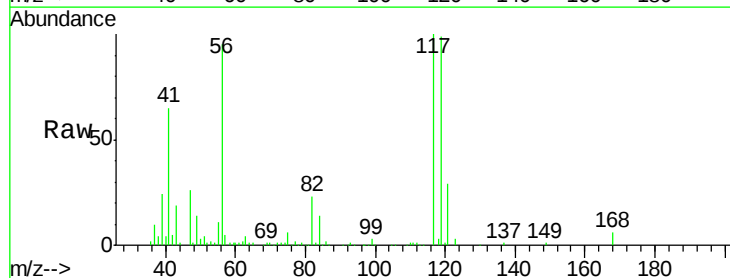
Manual Integrations
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6/29/2019 7:22:33 AM



#38
Carbon Tetrachloride
Concen: 48.698 ug/l m
RT: 7.10 min Scan# 577
Delta R.T. -0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.8	75.4	113.2
121	29.0	22.3	33.5





#39

Methvlcvclohexane

Concen: 46.821 ug/l

RT: 8.87 min Scan# 756

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 525419

Ion Ratio Lower Upper

83 100

55 98.3 76.6 115.0

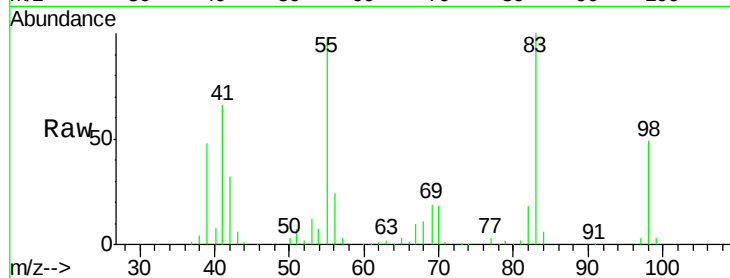
98 48.7 35.7 53.5

Manual Integrations

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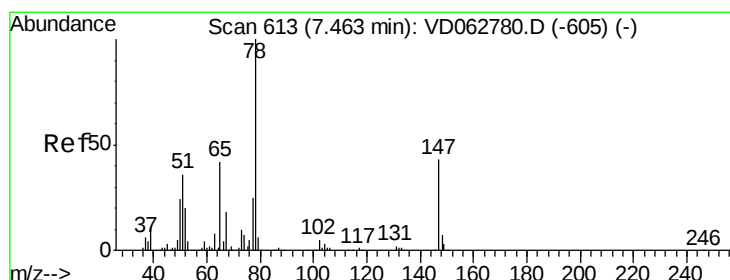
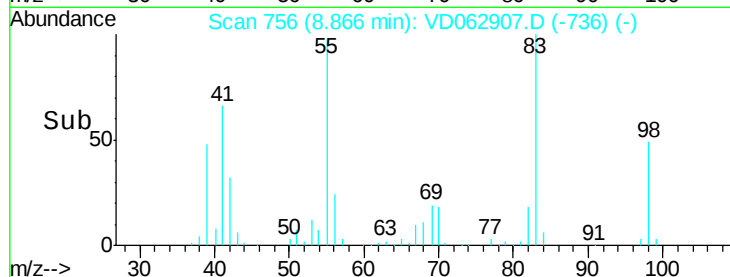
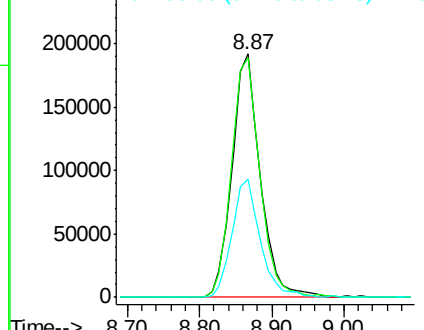
6/29/2019 7:22:33 AM



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 48.616 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062907.D

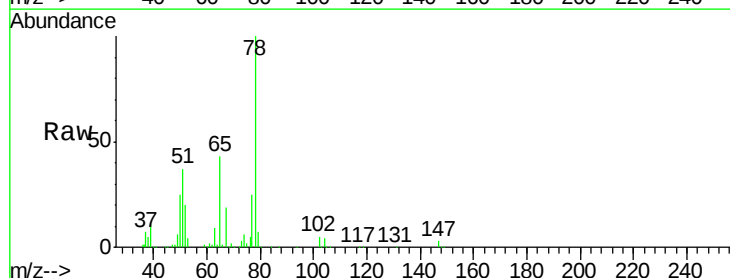
Acq: 26 Jun 2019 10:15

Tgt Ion: 78 Resp: 1244117

Ion Ratio Lower Upper

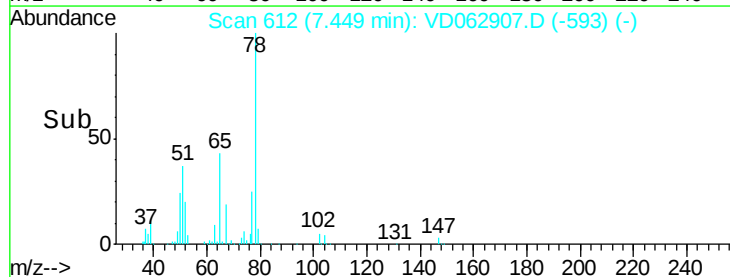
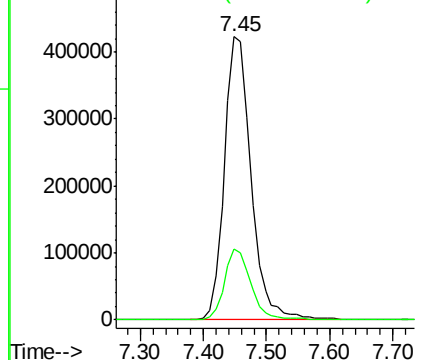
78 100

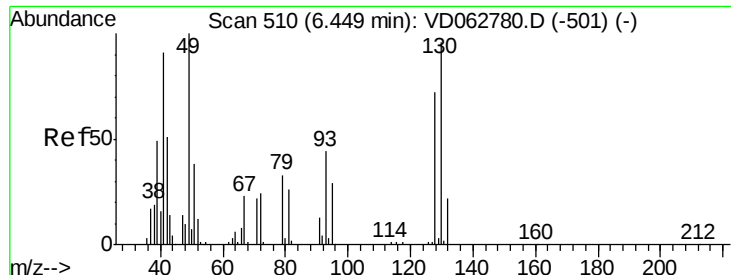
77 25.3 20.2 30.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





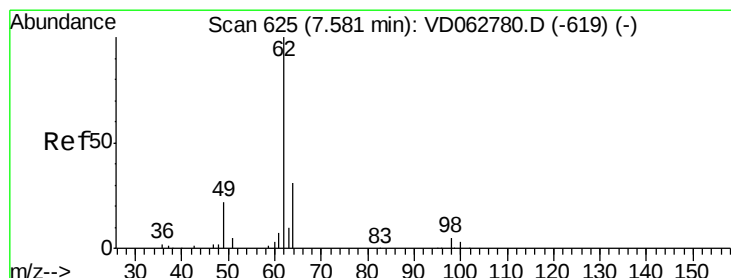
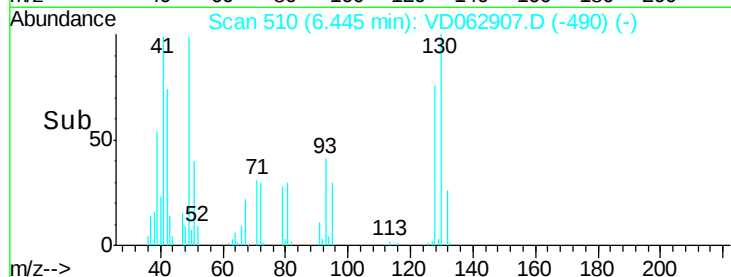
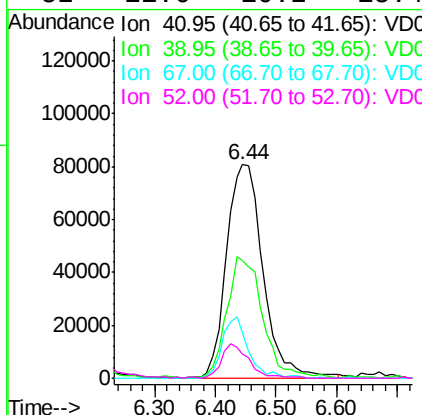
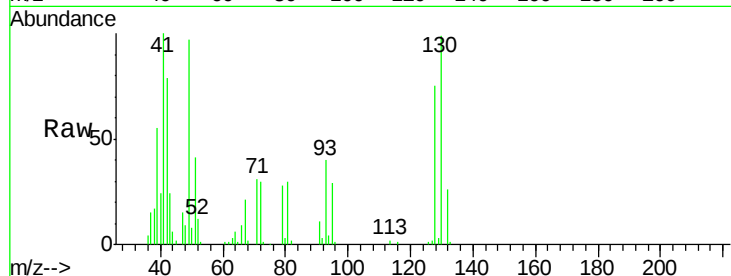
#41
Methacrylonitrile
Concen: 50.242 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.2	43.2	64.8
67	21.5	19.9	29.9
52	11.6	10.2	15.4

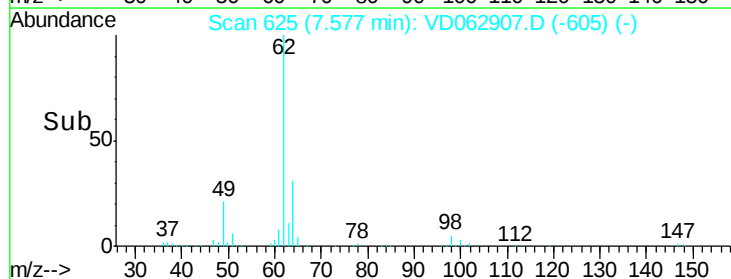
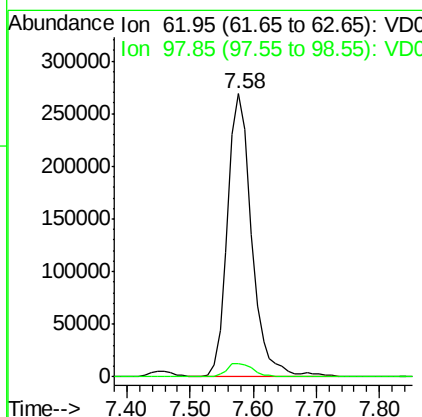
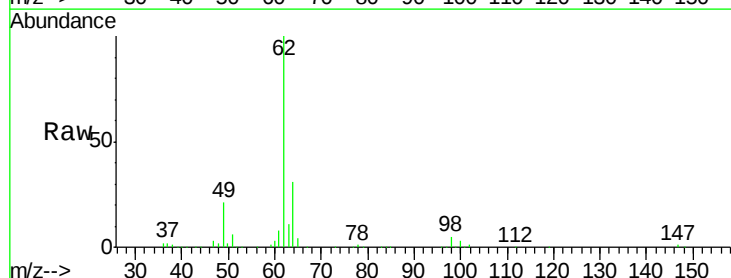
Manual Integrations
APPROVED

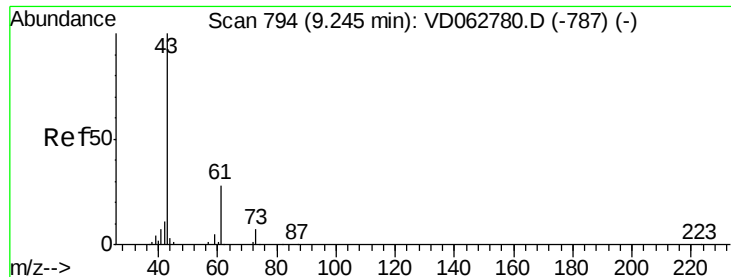
MMDadoda
6/29/2019 7:22:33 AM



#42
1,2-Dichloroethane
Concen: 51.184 ug/l
RT: 7.58 min Scan# 625
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.7	0.0	10.0





#43

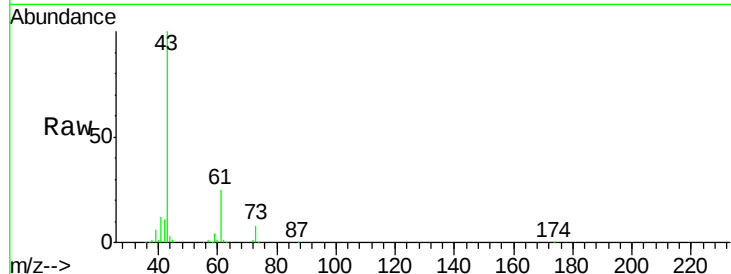
Isopropyl Acetate
 Concen: 49.566 ug/l
 RT: 9.24 min Scan# 794
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

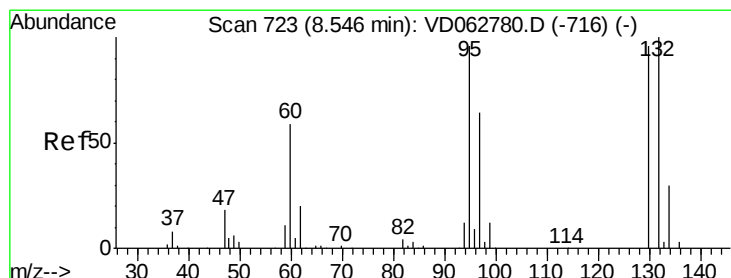
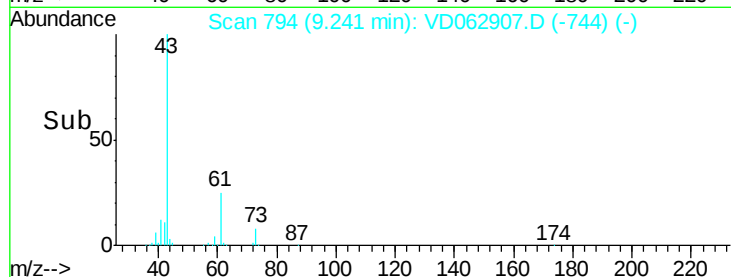
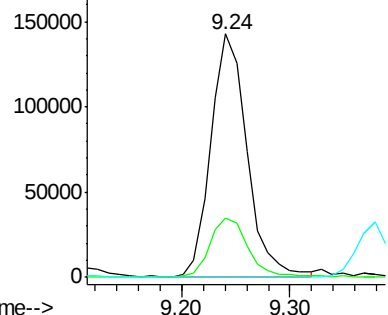
Tot Ion	Ratio	Lower	Upper
43	100		
61	24.6	22.4	33.6
87	0.3	0.3	0.5

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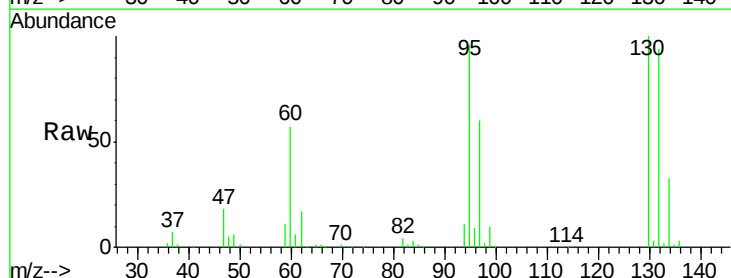
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



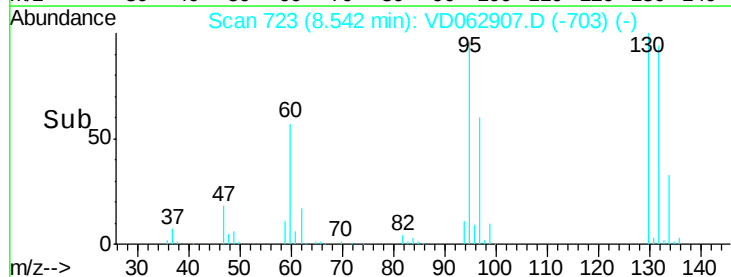
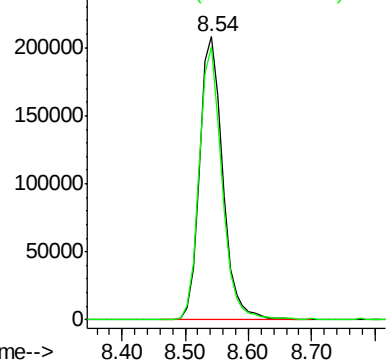
#44

Trichloroethene
 Concen: 52.437 ug/l
 RT: 8.54 min Scan# 723
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	201.6



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





#45

1,2-Dichloropropane

Concen: 48.321 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 307481

Ion Ratio Lower Upper

63 100

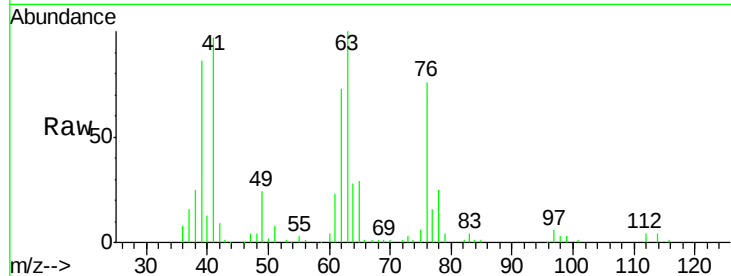
65 28.6 24.2 36.2

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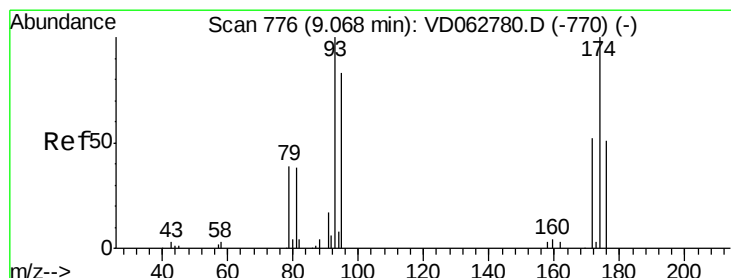
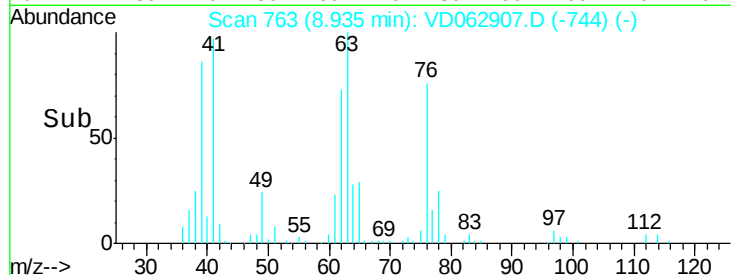
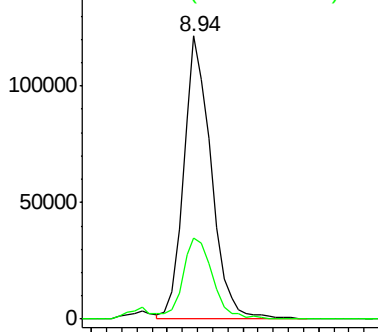
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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 48.561 ug/l

RT: 9.06 min Scan# 776

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

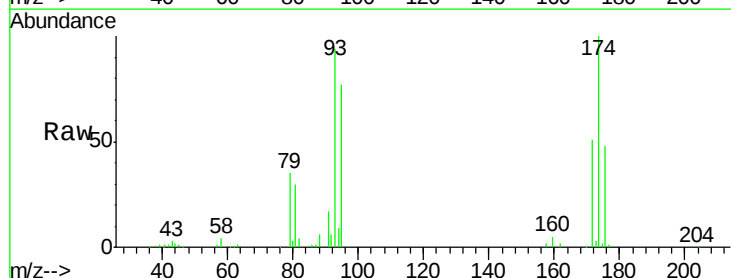
Tgt Ion: 93 Resp: 265443

Ion Ratio Lower Upper

93 100

95 82.4 66.6 100.0

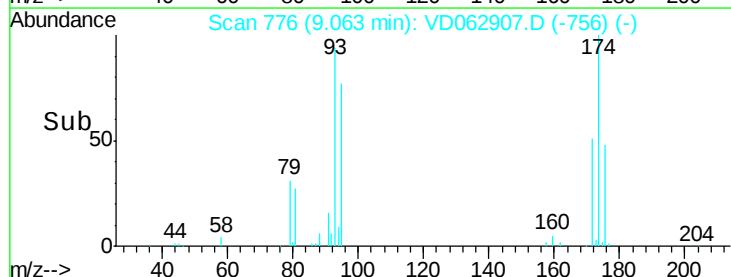
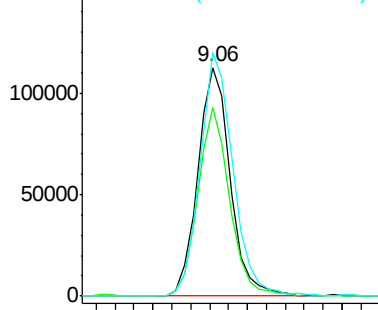
174 106.5 79.7 119.5



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





#47

Bromodichloromethane

Concen: 50.397 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

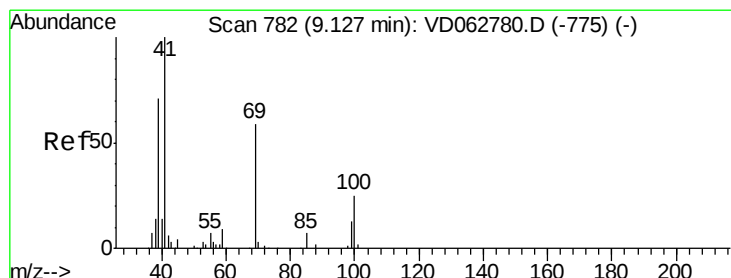
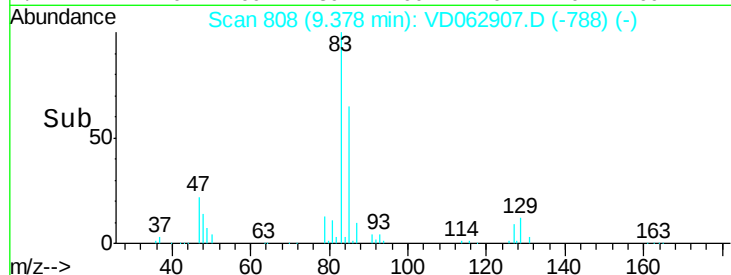
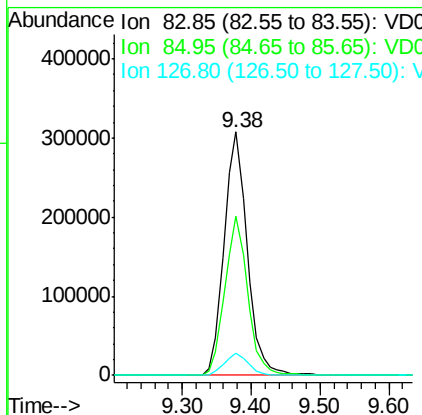
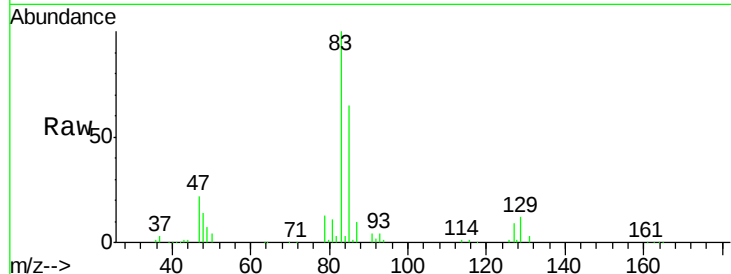
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	715443
Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.6	77.4
127	8.9	7.8	11.6

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#48

Methyl methacrylate

Concen: 50.254 ug/l

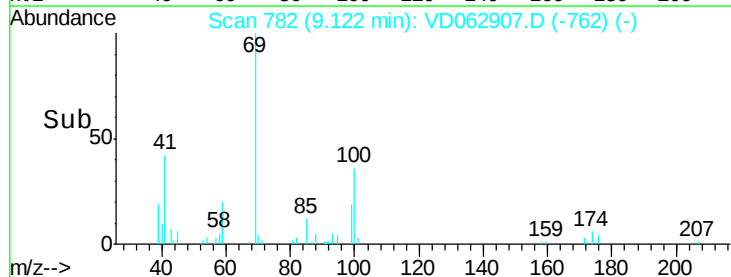
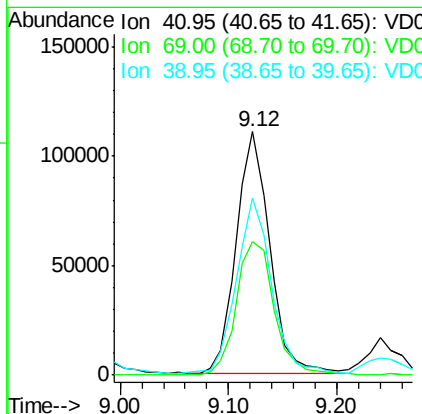
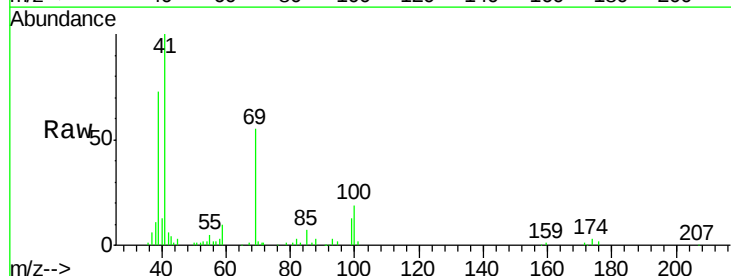
RT: 9.12 min Scan# 782

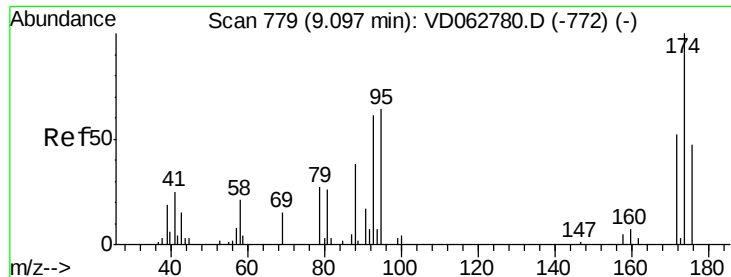
Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tgt Ion:	41	Resp:	238689
Ion	Ratio	Lower	Upper
41	100		
69	54.8	47.2	70.8
39	72.6	57.4	86.2





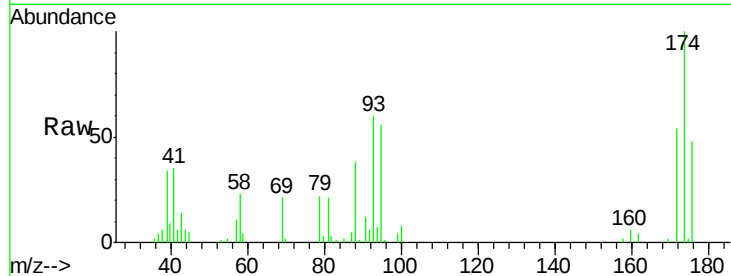
#49
1,4-Dioxane
Concen: 1037.366 ug/l
RT: 9.09 min Scan# 779
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

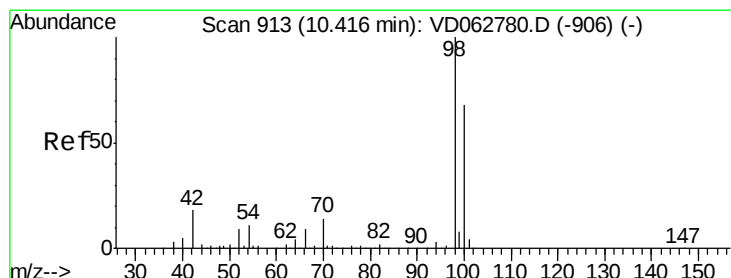
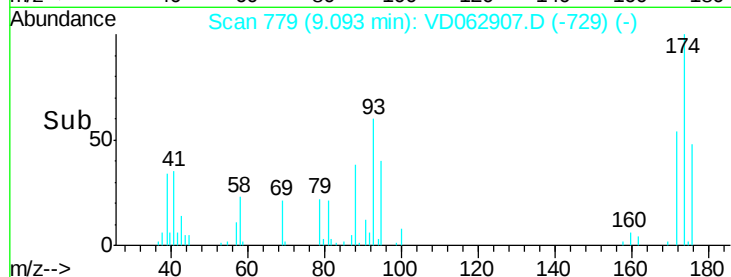
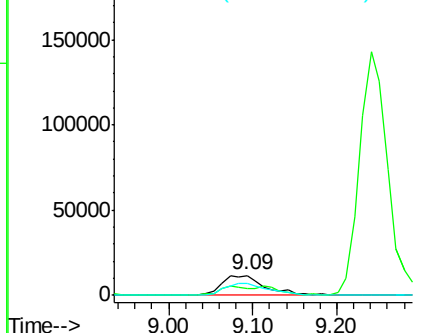
Tot Ion	Ratio	Resp	Lower	Upper
88	100	40992		
43	36.2		32.1	48.1
58	61.1		44.1	66.1

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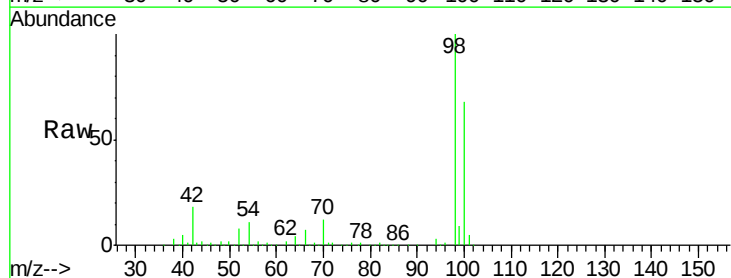


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

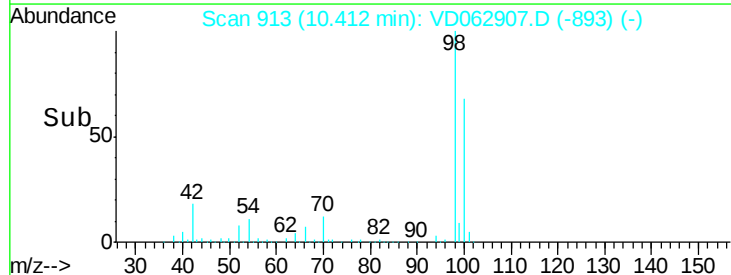
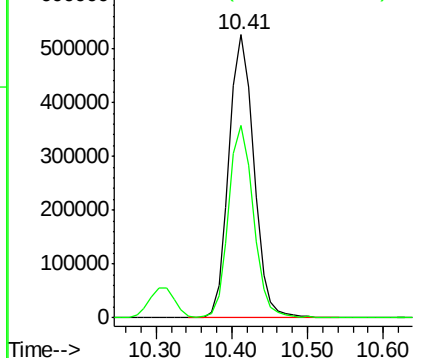


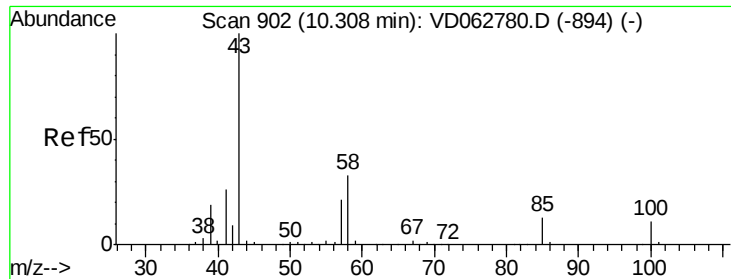
#50
Toluene-d8
Concen: 48.644 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	1202227		
100	67.8		54.7	82.1



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





#51

4-Methyl-2-Pentanone

Concen: 262.446 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1243655

Ion Ratio Lower Upper

43 100

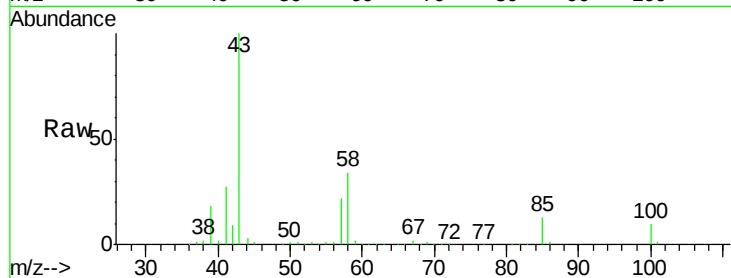
58 33.9 26.6 40.0

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

600000

500000

400000

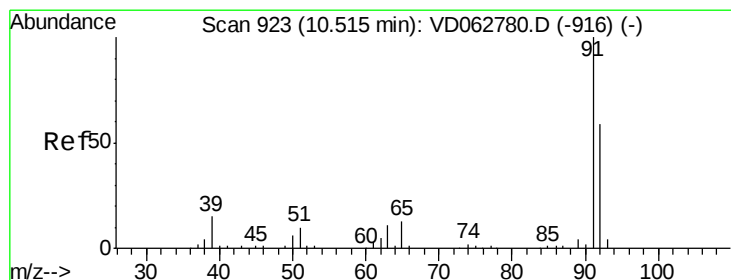
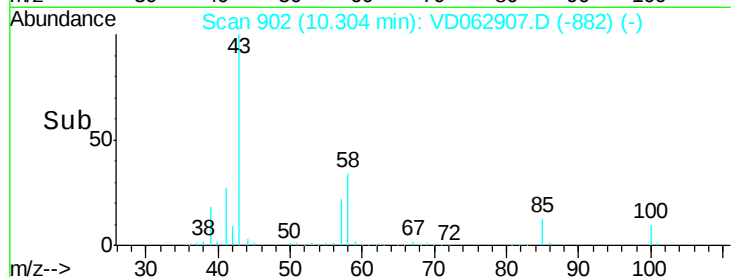
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 50.474 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062907.D

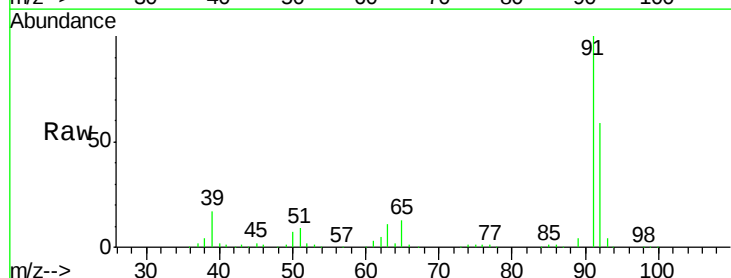
Acq: 26 Jun 2019 10:15

Tgt Ion: 92 Resp: 868248

Ion Ratio Lower Upper

92 100

91 169.2 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

800000

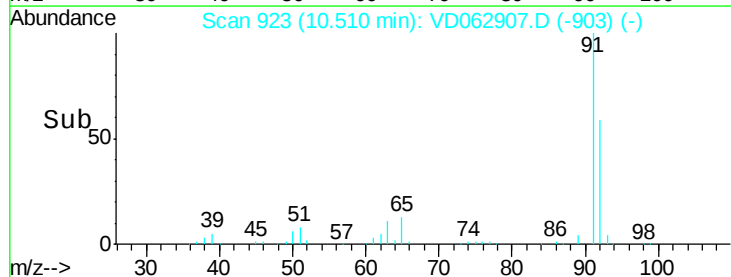
600000

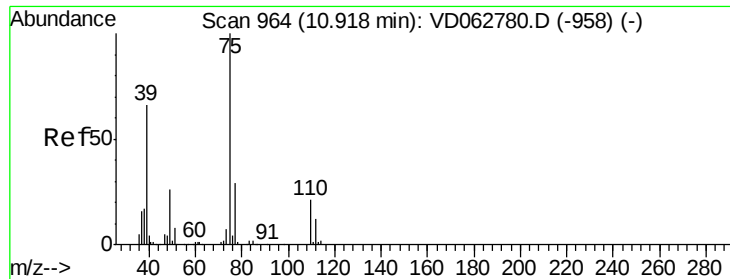
400000

200000

0

Time-->





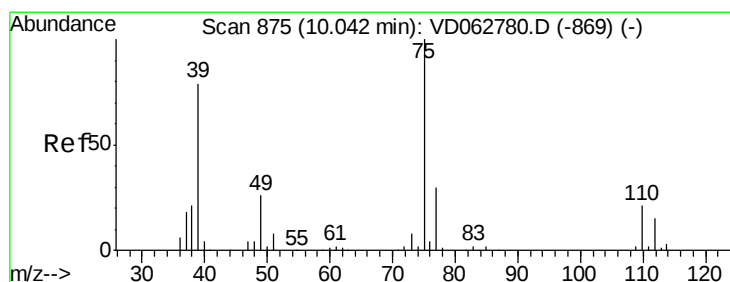
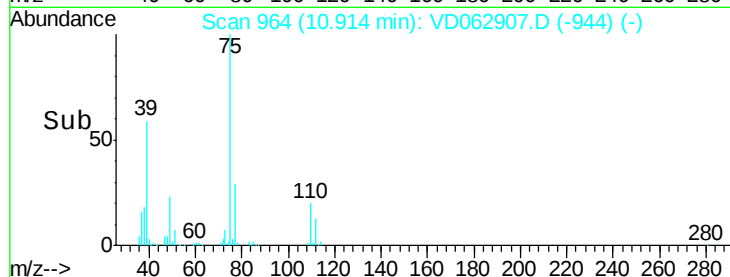
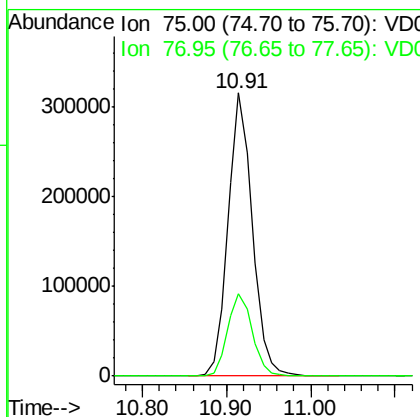
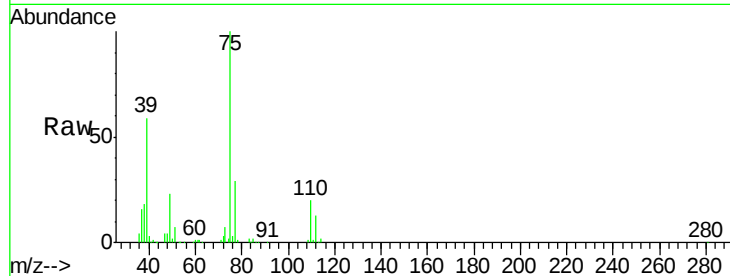
#53
t-1,3-Dichloropropene
Concen: 54.490 ug/l
RT: 10.91 min Scan# 964
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 633134
Ion Ratio Lower Upper
75 100
77 29.0 23.2 34.8

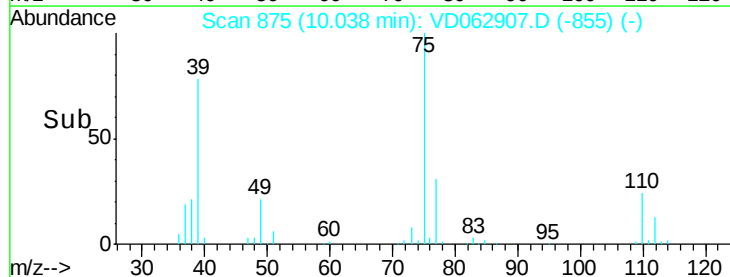
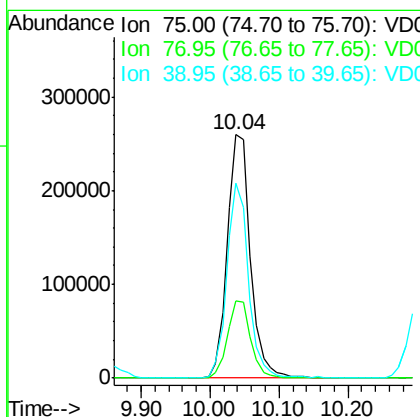
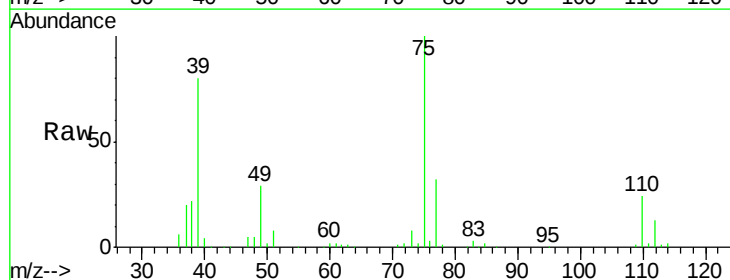
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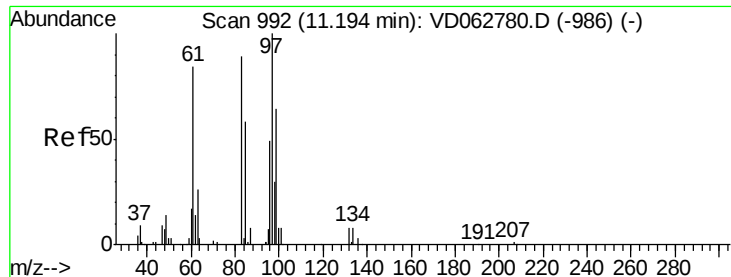
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#54
cis-1,3-Dichloropropene
Concen: 47.758 ug/l
RT: 10.04 min Scan# 875
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 75 Resp: 603148
Ion Ratio Lower Upper
75 100
77 31.5 24.2 36.2
39 80.1 63.5 95.3





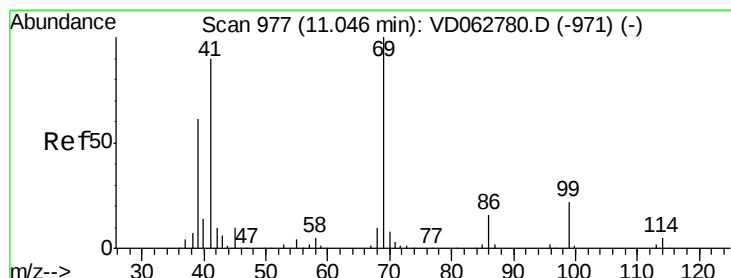
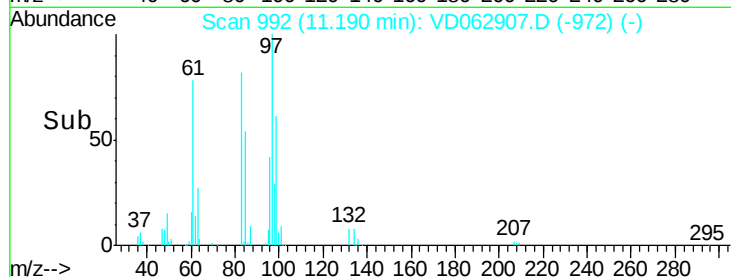
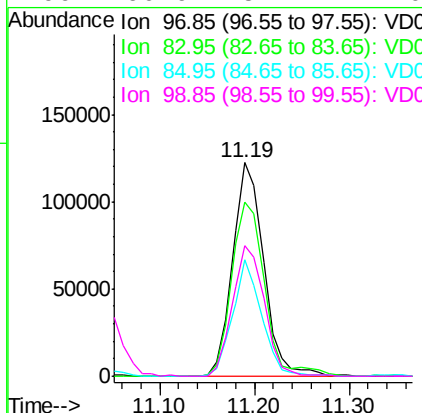
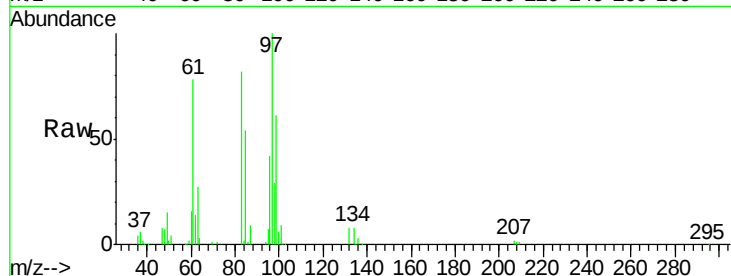
#55
 1,1,2-Trichloroethane
 Concen: 46.973 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	277607
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

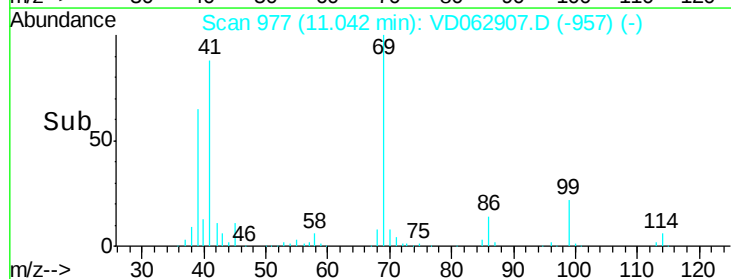
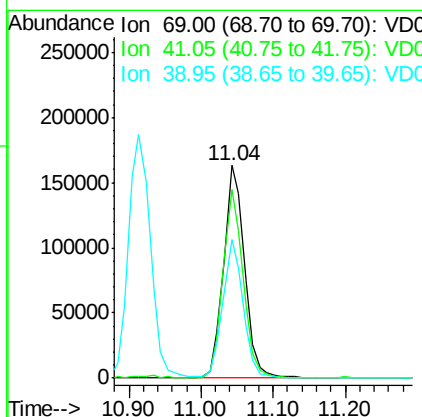
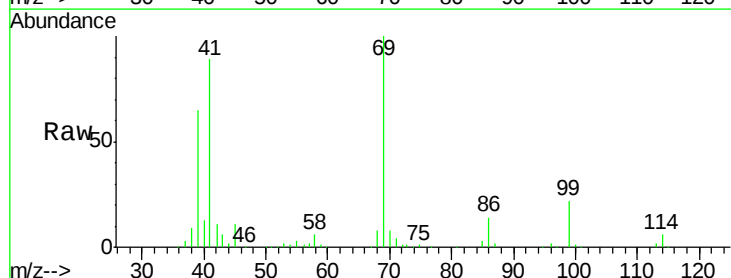
Manual Integrations
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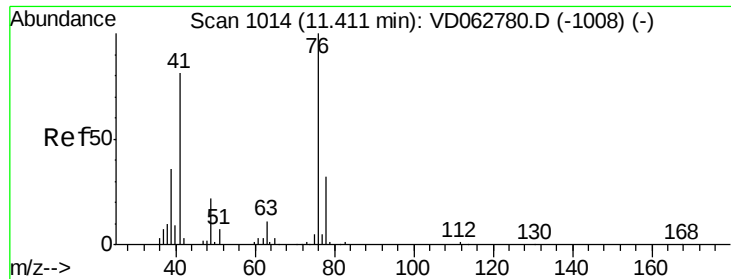
MMDadoda
 6/29/2019 7:22:33 AM



#56
 Ethyl methacrylate
 Concen: 52.334 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion:	69	Resp:	330537
Ion	Ratio	Lower	Upper
69	100		
41	88.7	72.0	108.0
39	65.2	49.5	74.3





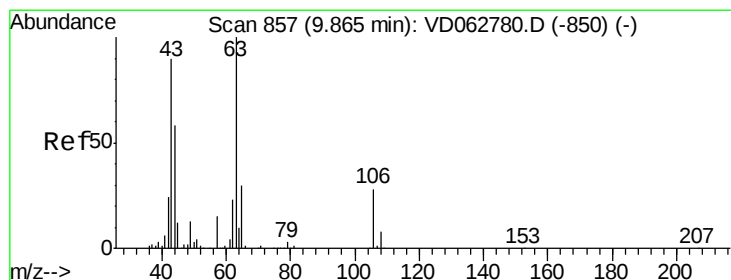
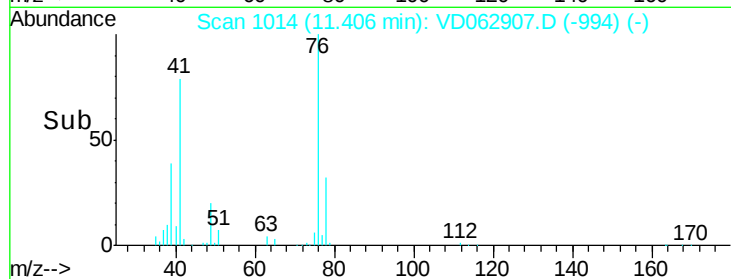
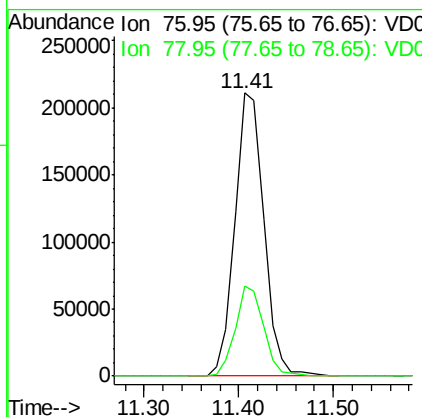
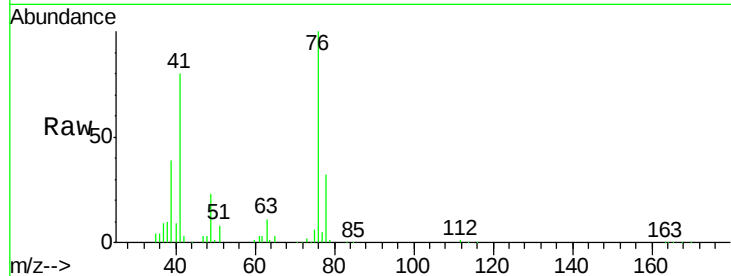
#57
 1,3-Dichloropropane
 Concen: 49.634 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 449139
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.4 38.0

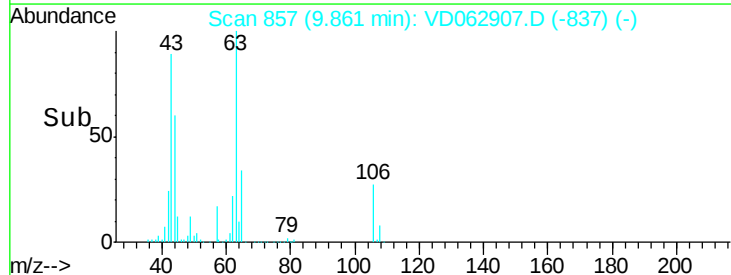
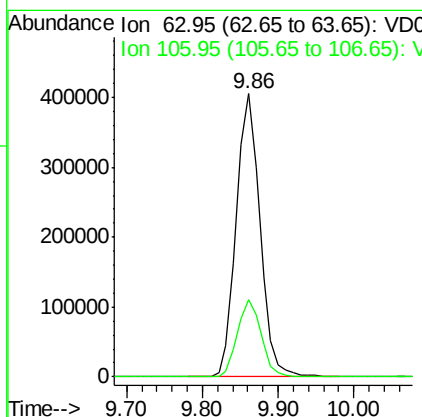
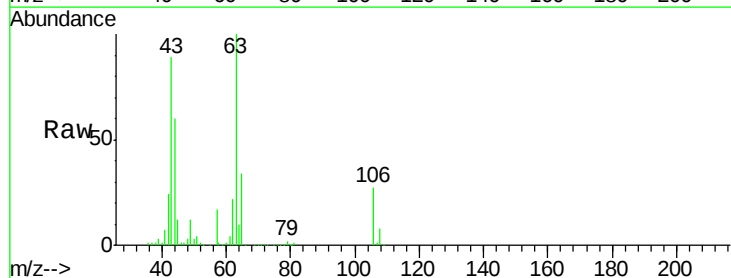
Manual Integrations
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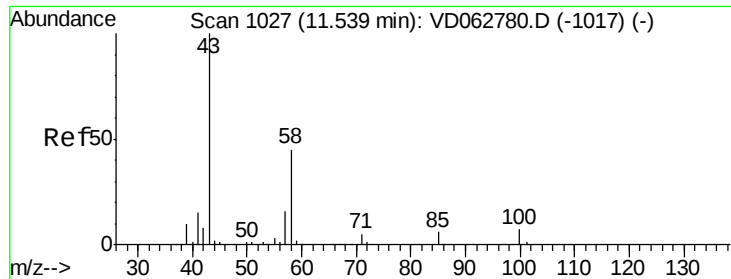
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#58
 2-Chloroethyl Vinyl ether
 Concen: 271.003 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion: 63 Resp: 878724
 Ion Ratio Lower Upper
 63 100
 106 27.4 22.1 33.1





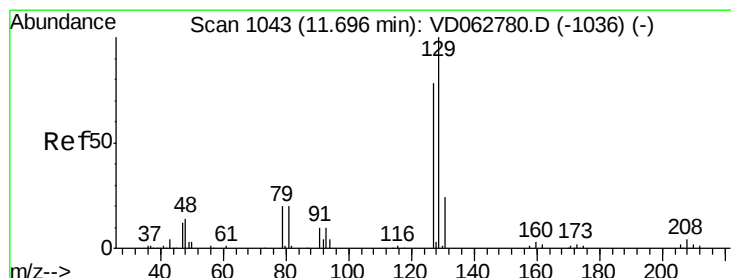
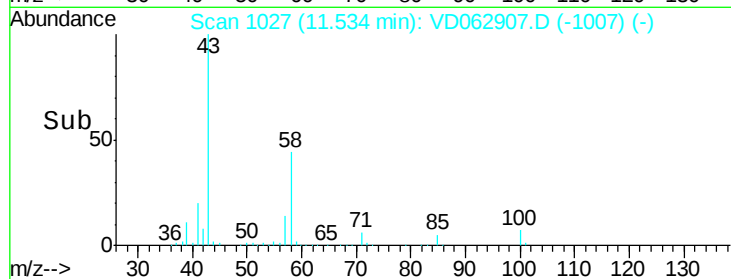
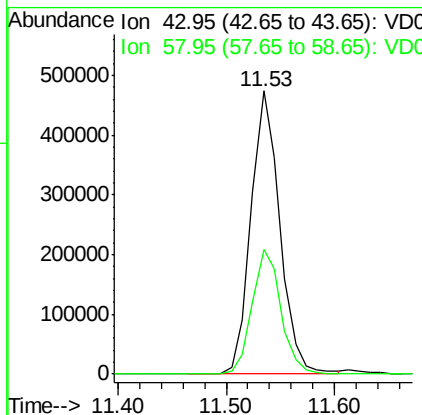
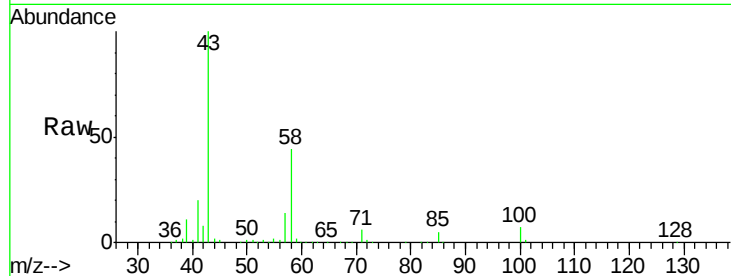
#59
2-Hexanone
Concen: 260.185 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 878087
Ion Ratio Lower Upper
43 100
58 43.9 22.4 67.2

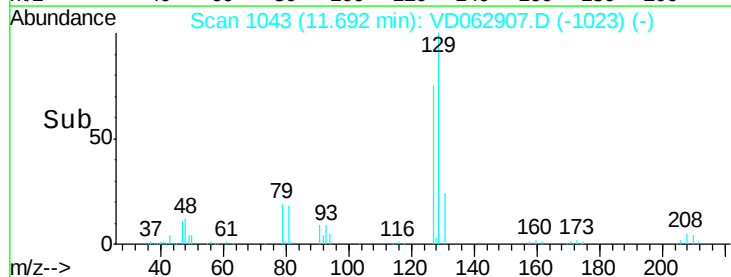
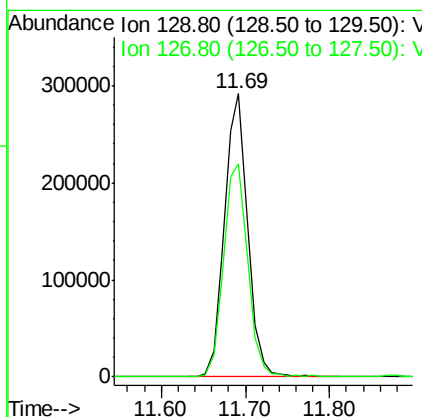
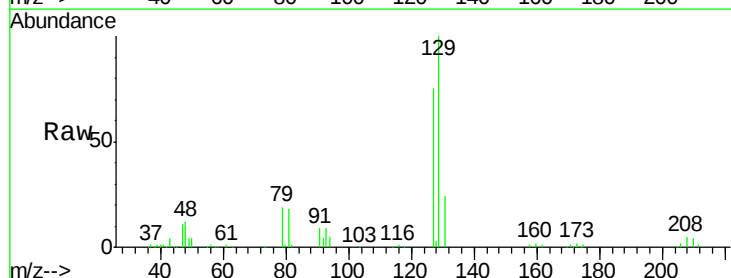
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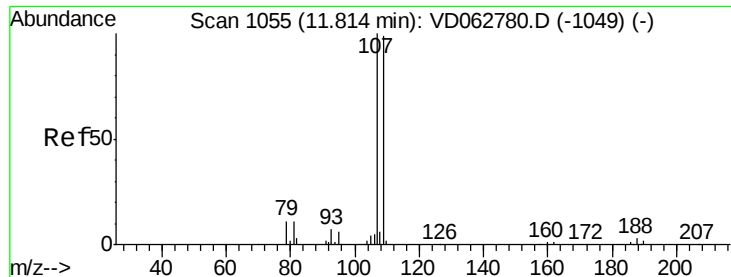
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#60
Dibromochloromethane
Concen: 50.488 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion:129 Resp: 555781
Ion Ratio Lower Upper
129 100
127 75.2 38.9 116.6





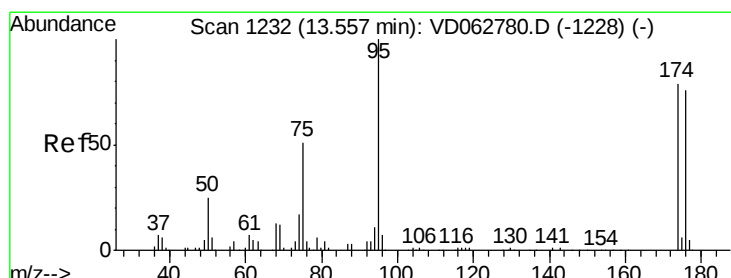
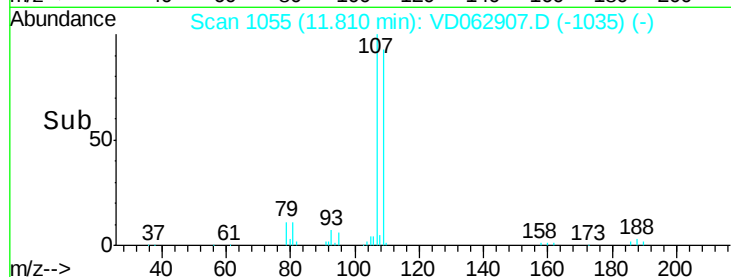
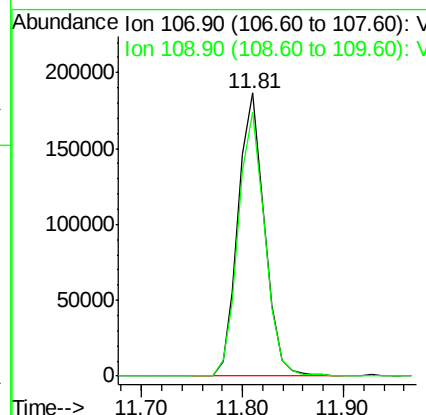
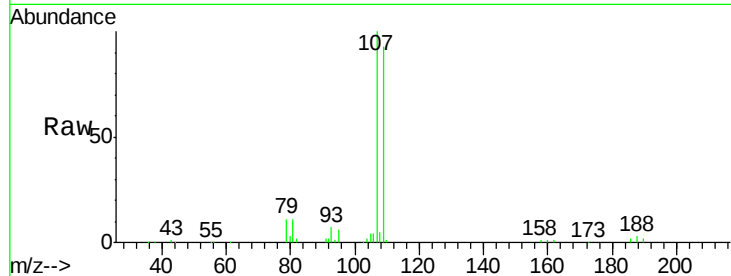
#61
 1,2-Dibromoethane
 Concen: 48.726 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	79.3	118.9

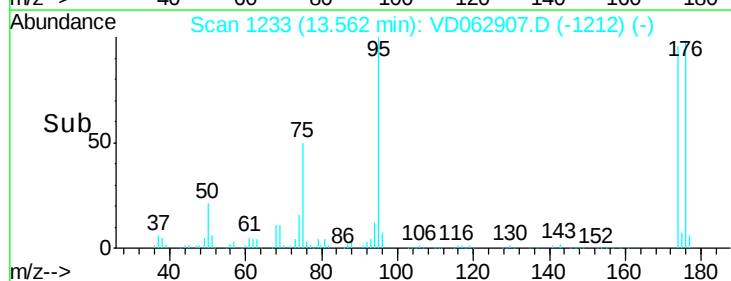
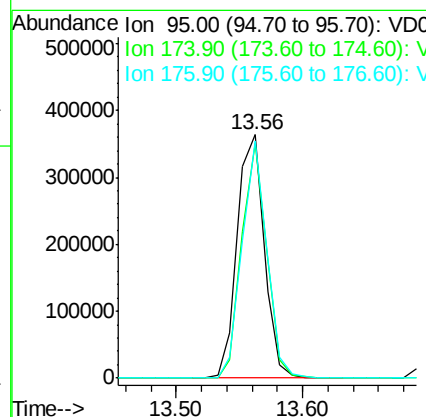
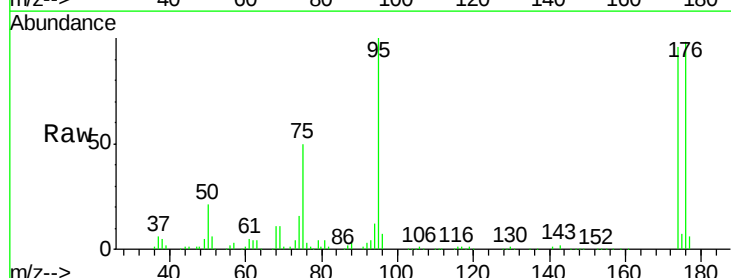
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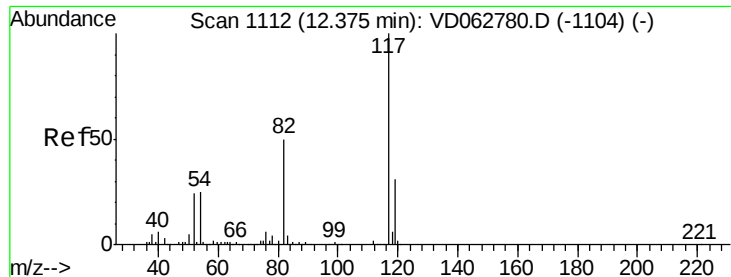
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#62
 4-Bromofluorobenzene
 Concen: 47.826 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.4	0.0	158.0
176	97.5	0.0	151.6





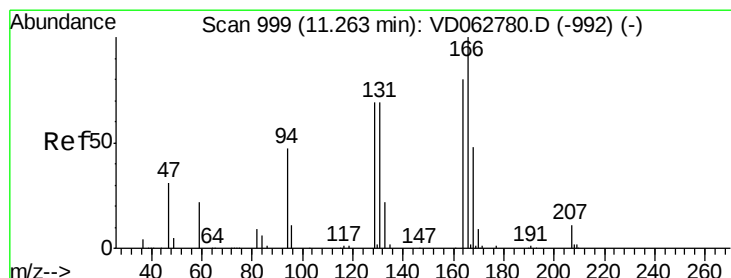
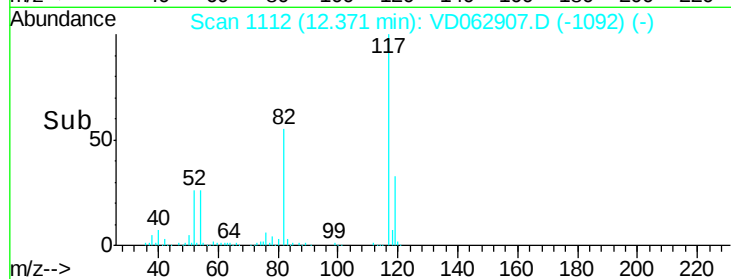
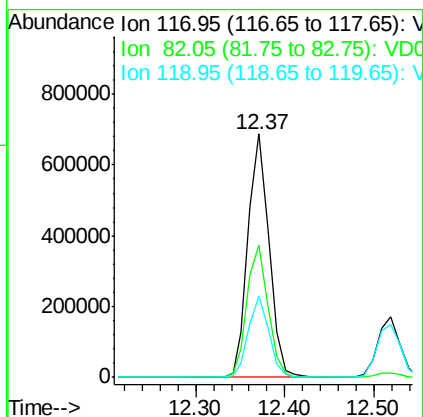
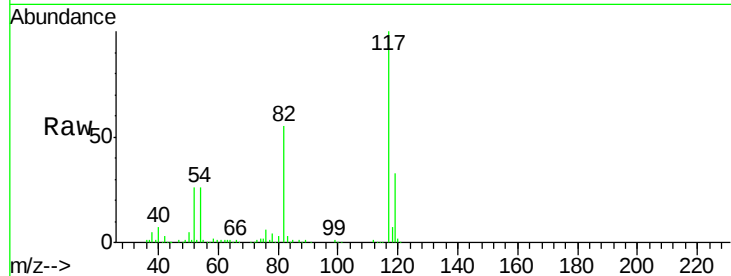
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1125049
Ion Ratio Lower Upper
117 100
82 54.5 40.4 60.6
119 33.0 25.2 37.8

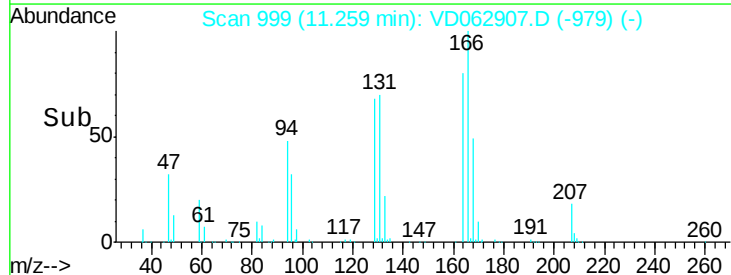
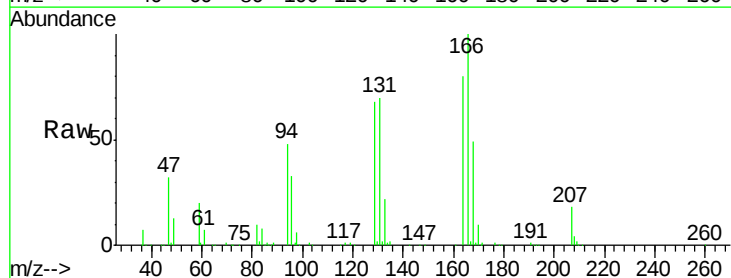
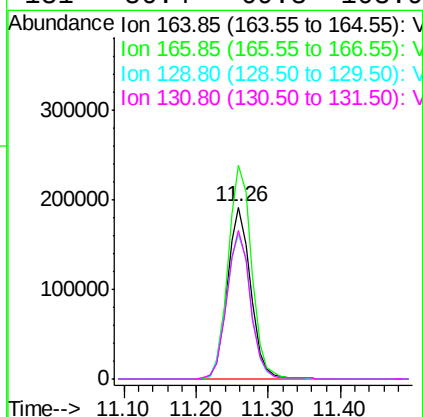
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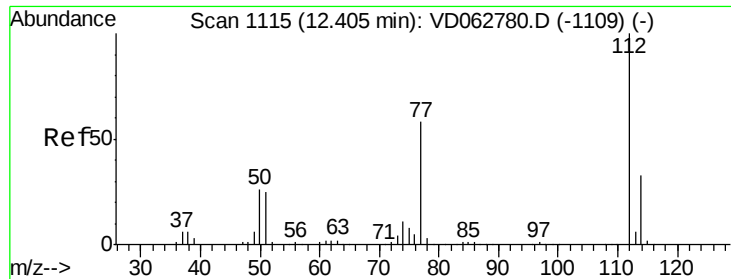
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#64
Tetrachloroethene
Concen: 46.503 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion:164 Resp: 430593
Ion Ratio Lower Upper
164 100
166 124.3 100.6 150.8
129 84.3 69.4 104.0
131 86.4 69.3 103.9





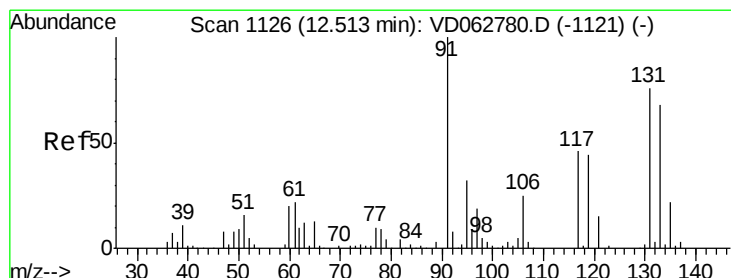
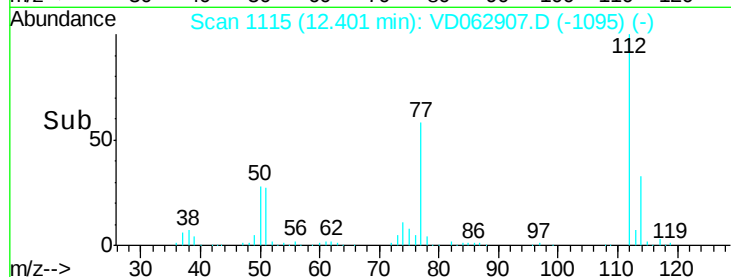
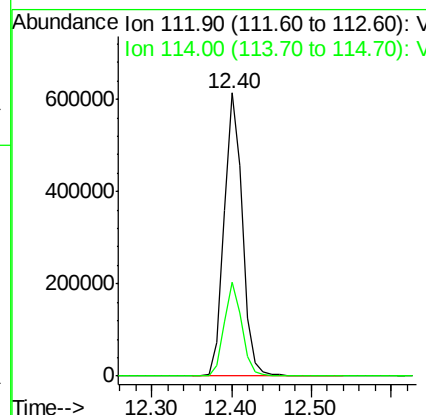
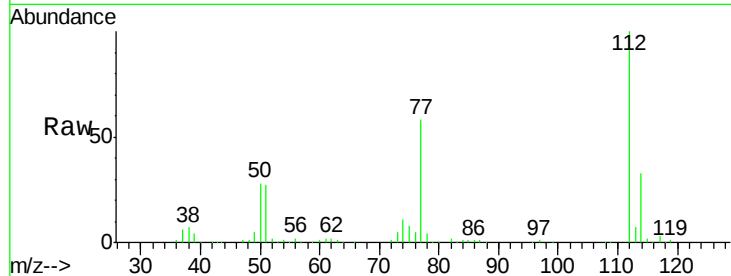
#65
Chlorobenzene
Concen: 47.626 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 994420
Ion Ratio Lower Upper
112 100
114 33.0 26.3 39.5

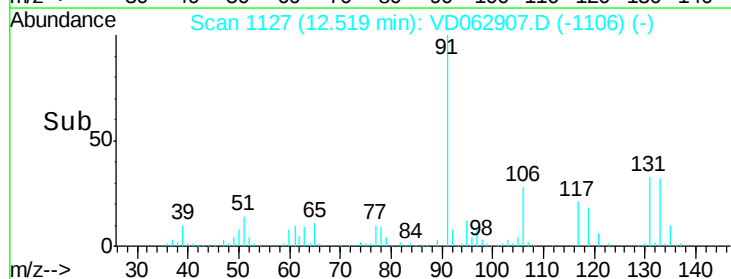
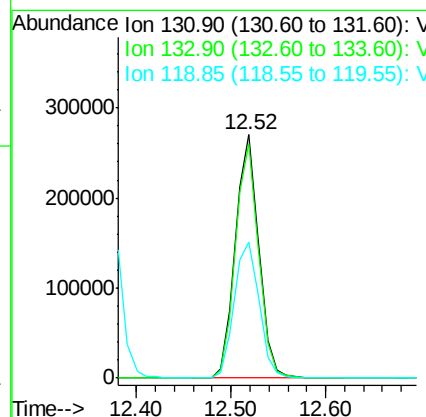
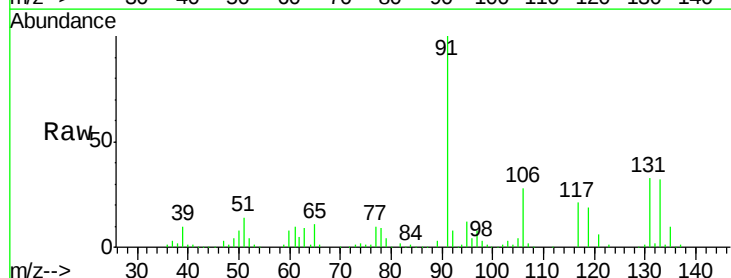
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#66
1,1,1,2-Tetrachloroethane
Concen: 47.344 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion:131 Resp: 462292
Ion Ratio Lower Upper
131 100
133 96.2 44.5 133.3
119 55.9 28.6 85.9





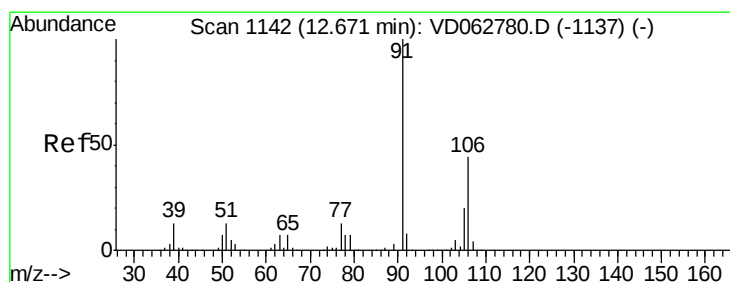
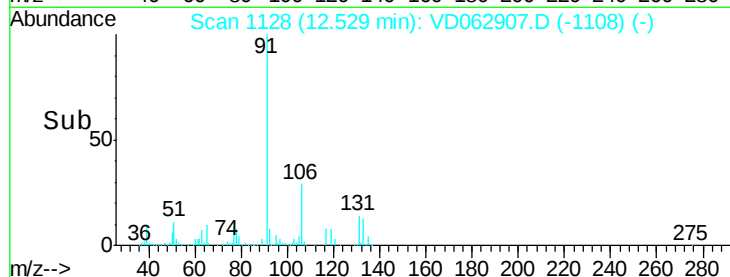
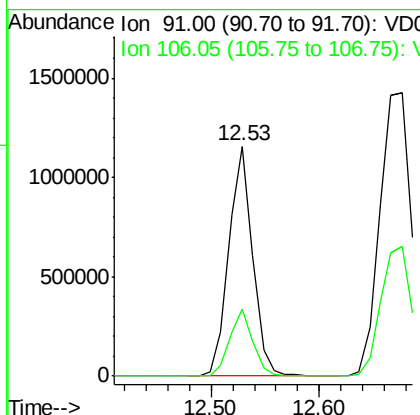
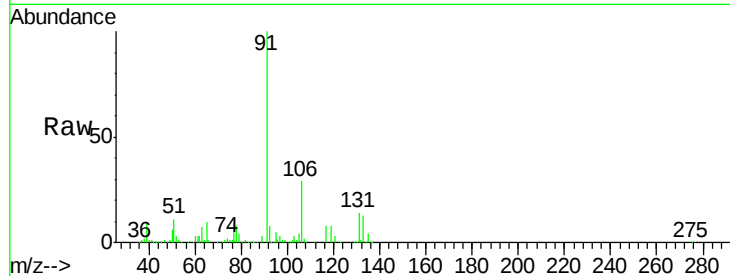
#67
Ethyl Benzene
Concen: 47.500 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1780640
Ion Ratio Lower Upper
91 100
106 29.1 23.1 34.7

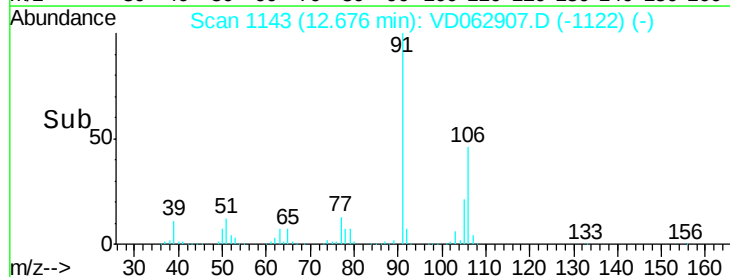
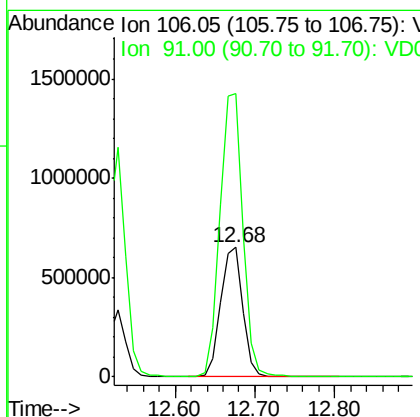
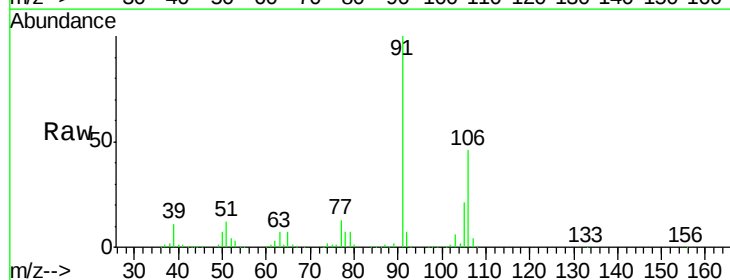
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#68
m/p-Xylenes
Concen: 98.817 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 106 Resp: 1290198
Ion Ratio Lower Upper
106 100
91 218.8 183.0 274.6





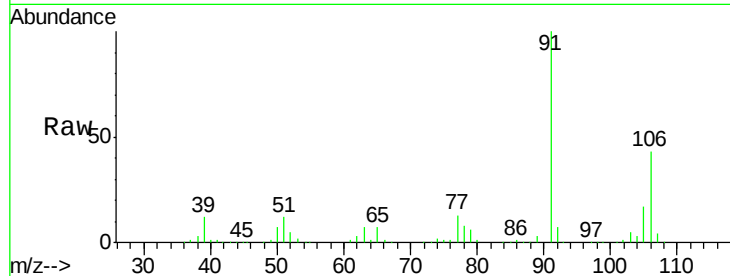
#69
o-Xylene
Concen: 50.861 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

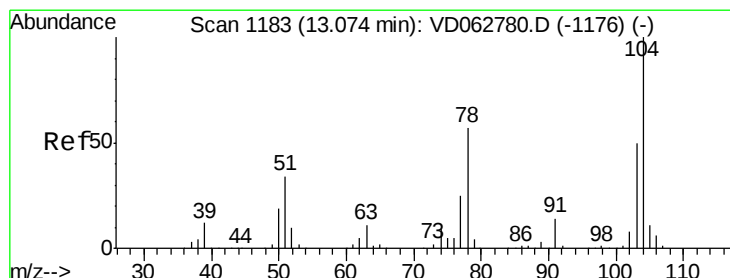
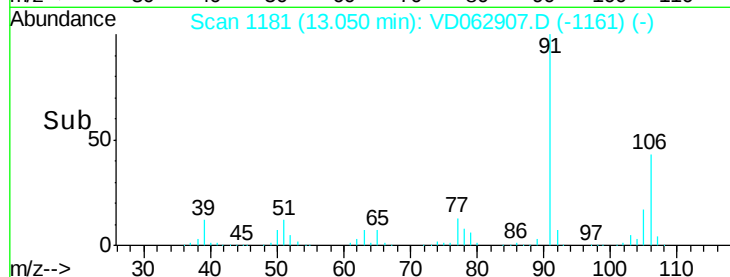
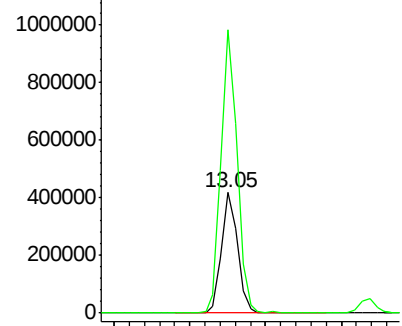
Tot Ion:106 Resp: 607055
Ion Ratio Lower Upper
106 100
91 235.1 117.9 353.6

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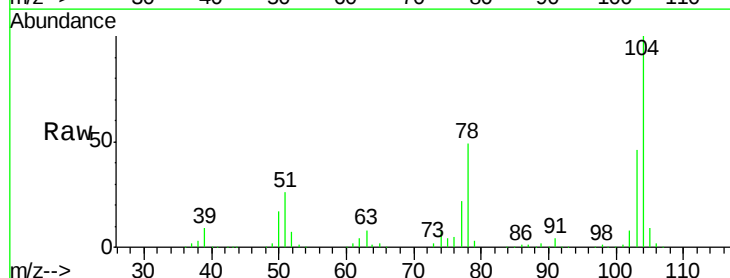


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

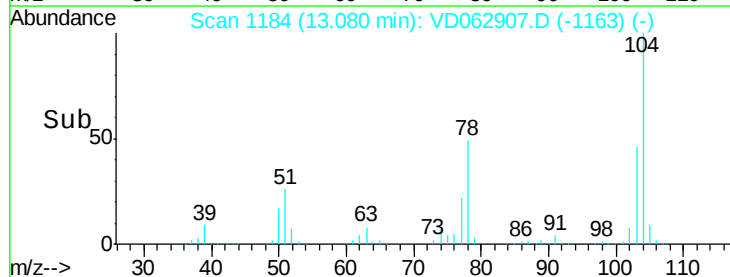
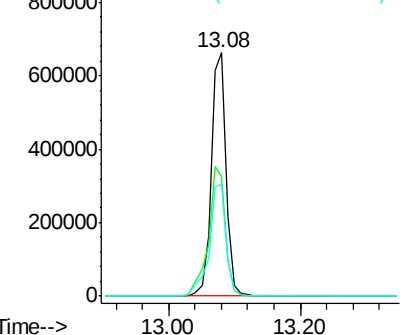


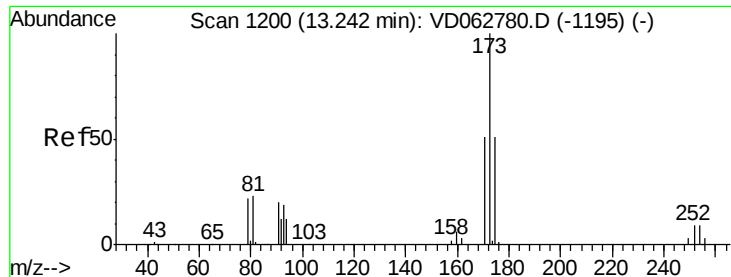
#70
Styrene
Concen: 49.458 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion:104 Resp: 1036857
Ion Ratio Lower Upper
104 100
78 49.1 45.4 68.2
103 45.8 39.7 59.5



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





#71

Bromoform

Concen: 51.039 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 341455

Ion Ratio Lower Upper

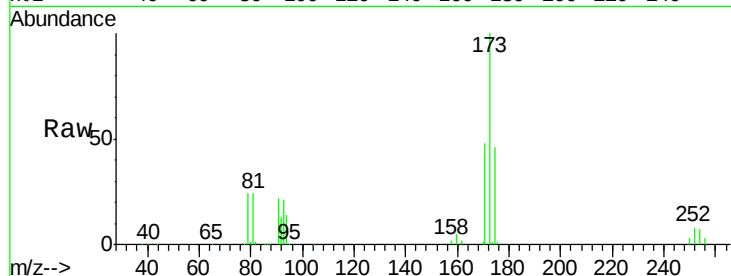
173 100

175 45.7 25.3 75.9

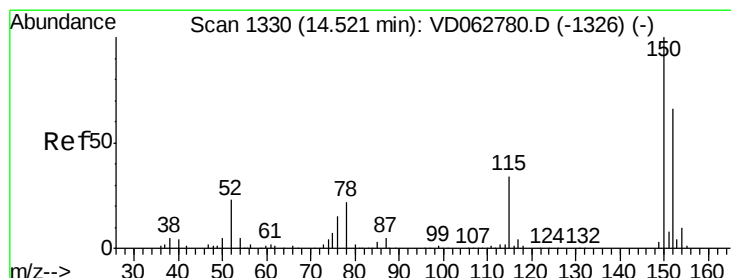
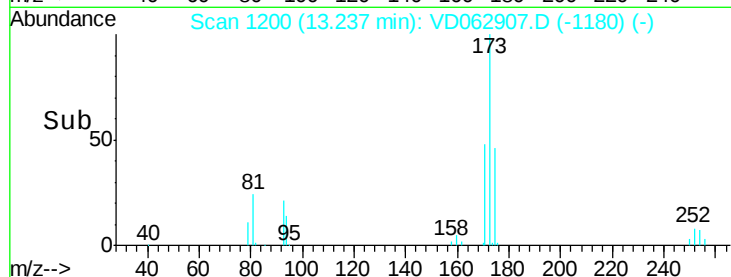
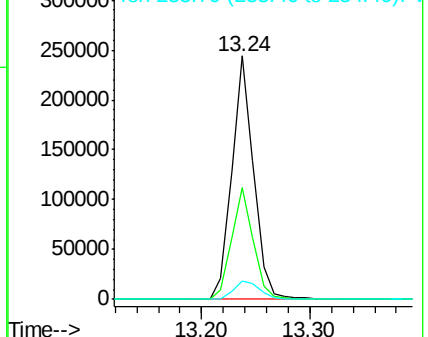
254 7.3 7.1 10.7

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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

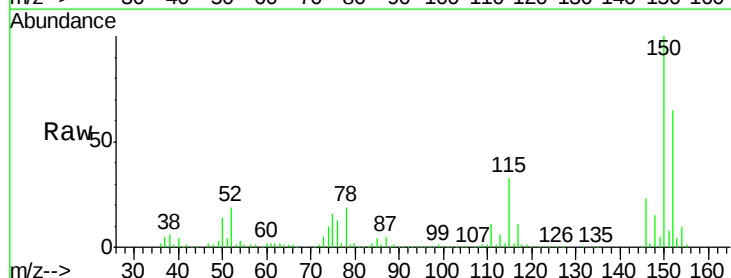
Tgt Ion:152 Resp: 599549

Ion Ratio Lower Upper

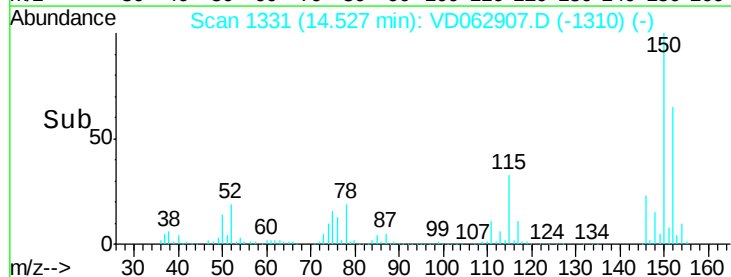
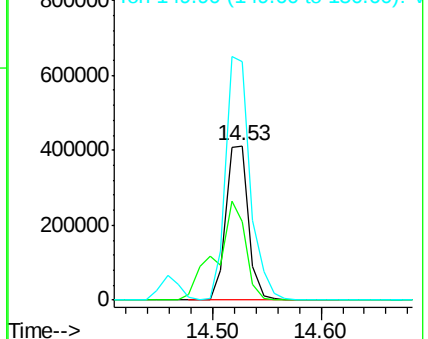
152 100

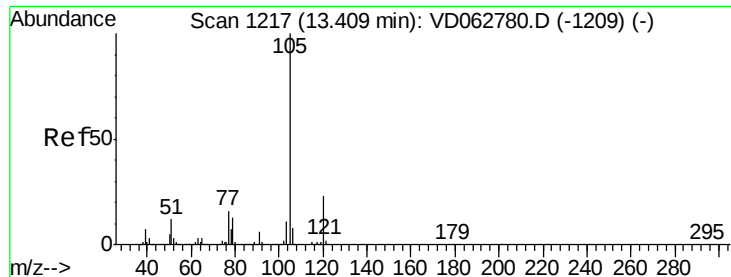
115 51.2 29.2 87.6

150 154.4 0.0 305.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 51.400 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1975932

Ion Ratio Lower Upper

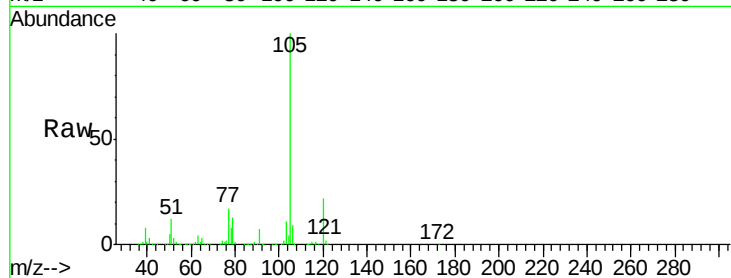
105 100

120 22.4 11.6 34.7

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

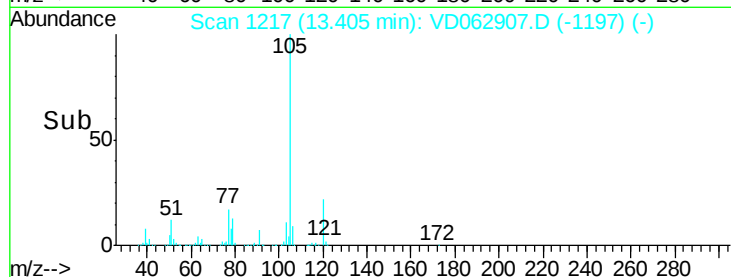
1500000

1000000

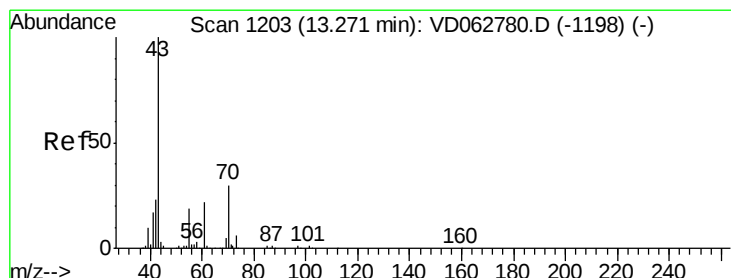
500000

0

13.30 13.40 13.50



Time-->



#74

N-ethyl acetate

Concen: 55.220 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tgt Ion: 43 Resp: 515509

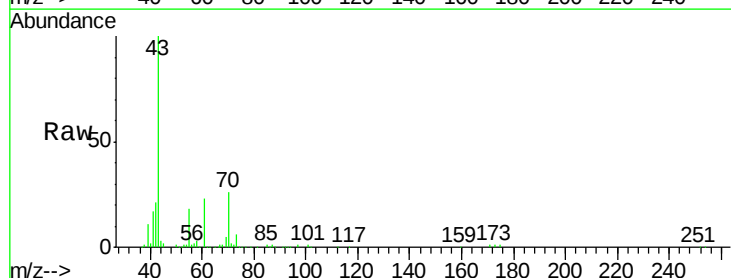
Ion Ratio Lower Upper

43 100

70 26.2 24.4 36.6

55 18.3 15.2 22.8

61 23.5 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

600000

500000

400000

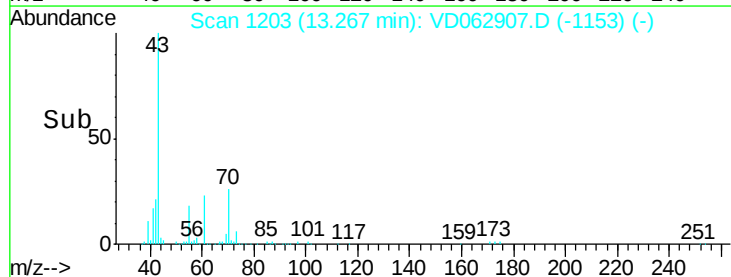
300000

200000

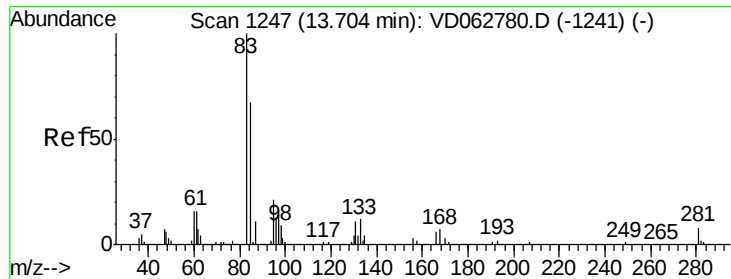
100000

0

13.20 13.30 13.40



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 53.745 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 336633
Ion Ratio Lower Upper

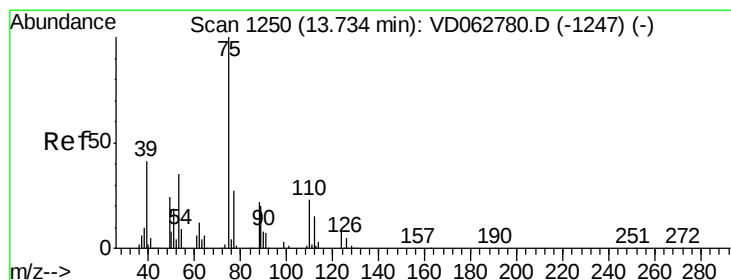
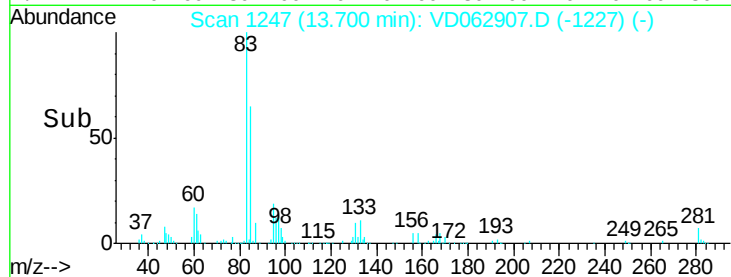
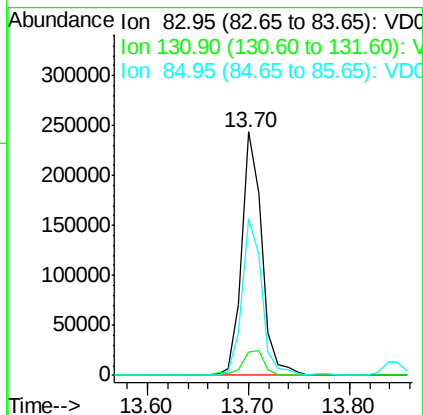
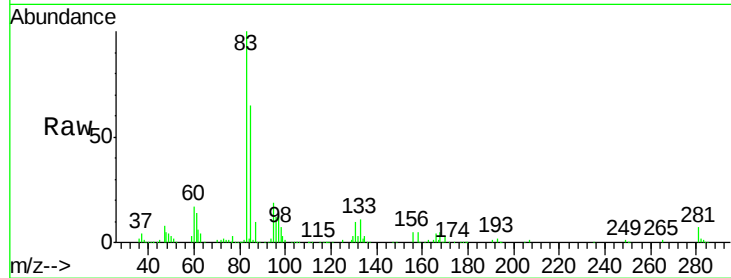
83 100

131 9.7 5.3 16.1

85 64.5 33.7 101.1

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#76

1,2,3-Trichloropropane

Concen: 52.306 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

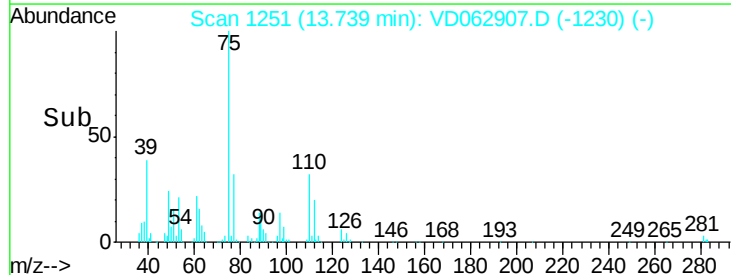
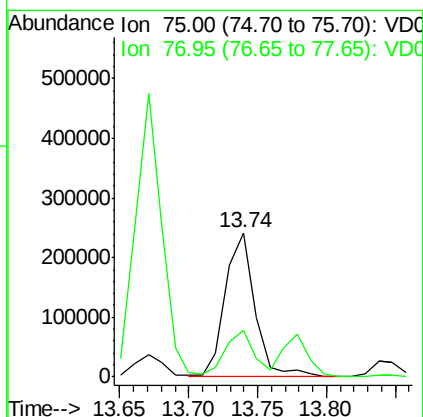
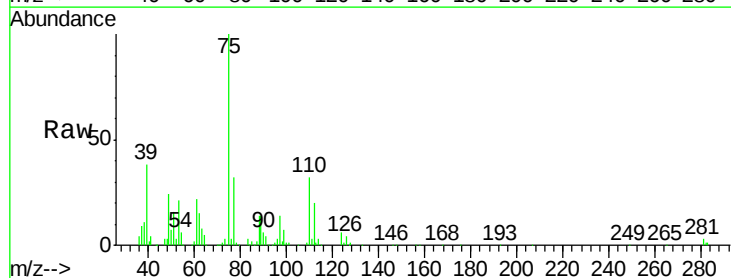
Lab File: VD062907.D

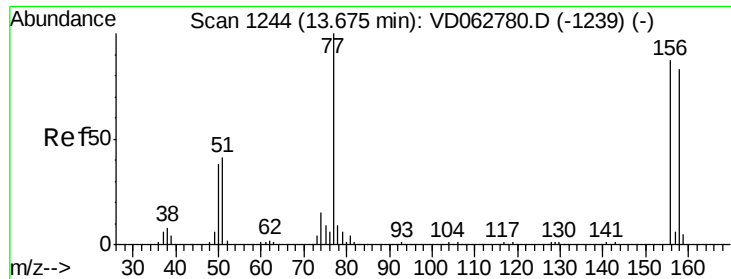
Acq: 26 Jun 2019 10:15

Tgt Ion: 75 Resp: 362031
Ion Ratio Lower Upper

75 100

77 32.1 15.0 45.1





#77

Bromobenzene

Concen: 48.665 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 503188

Ion Ratio Lower Upper

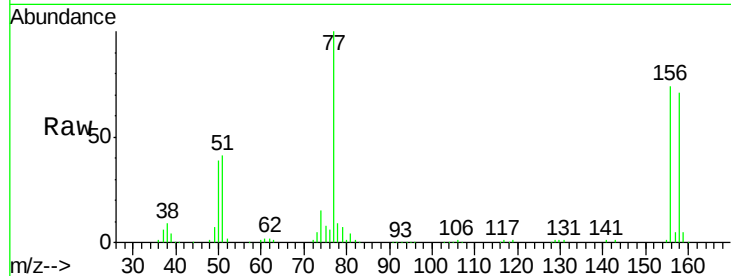
156 100

77 135.5 57.7 173.1

158 96.0 47.7 143.1

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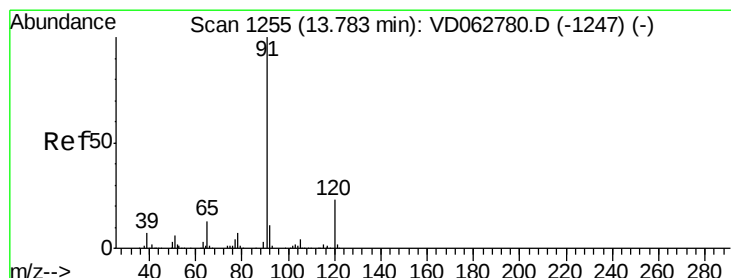
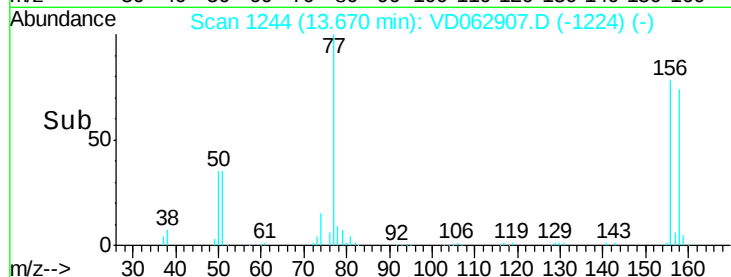
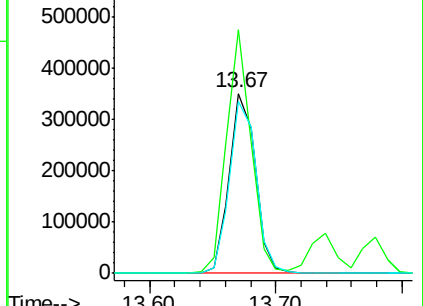
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 48.535 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VD062907.D

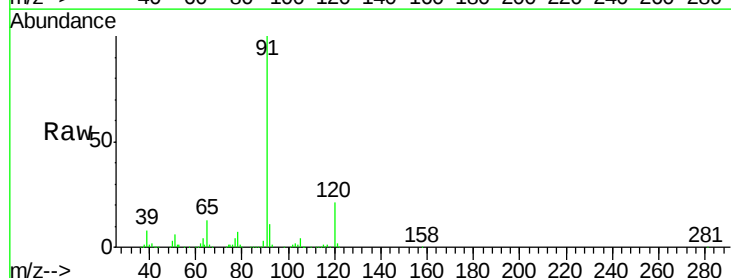
Acq: 26 Jun 2019 10:15

Tgt Ion: 91 Resp: 2171612

Ion Ratio Lower Upper

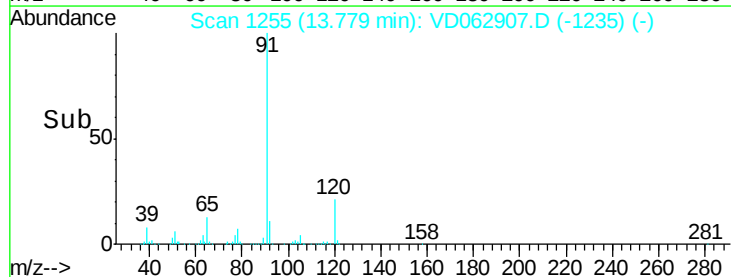
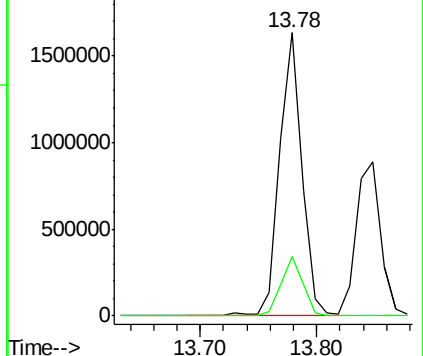
91 100

120 20.9 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





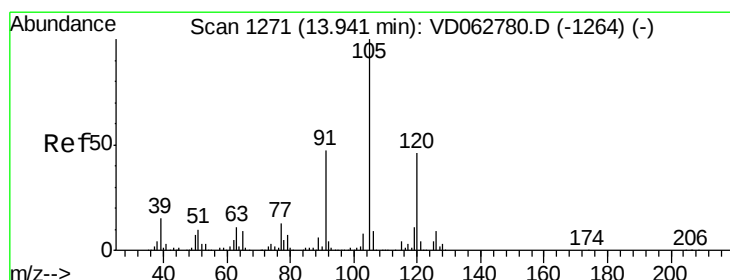
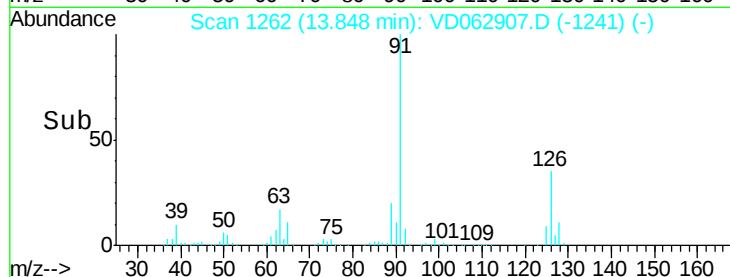
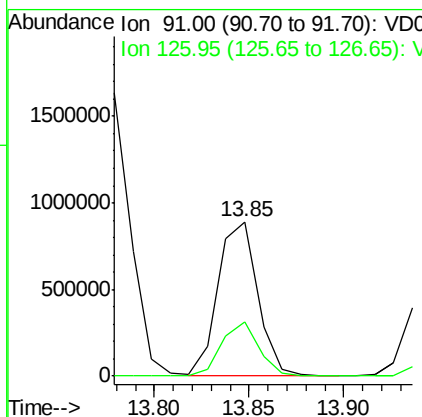
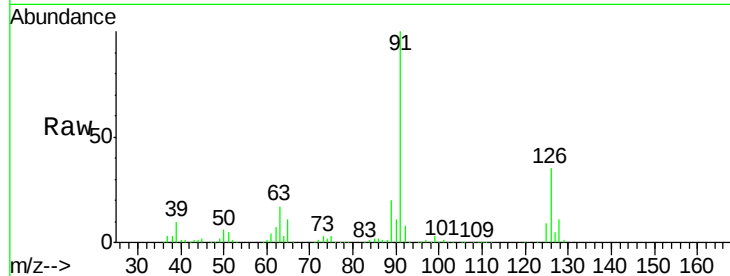
#79
2-Chlorotoluene
Concen: 50.271 ug/l
RT: 13.85 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1285408
Ion Ratio Lower Upper
91 100
126 35.0 15.7 47.1

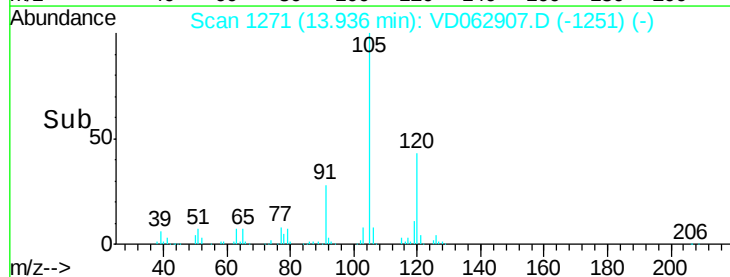
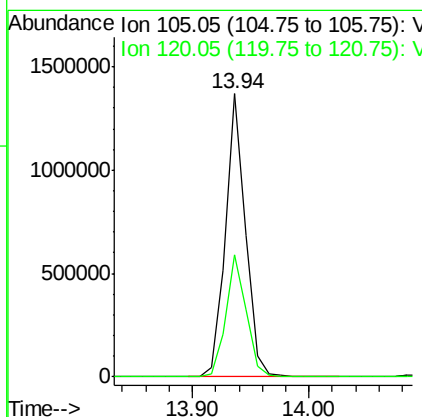
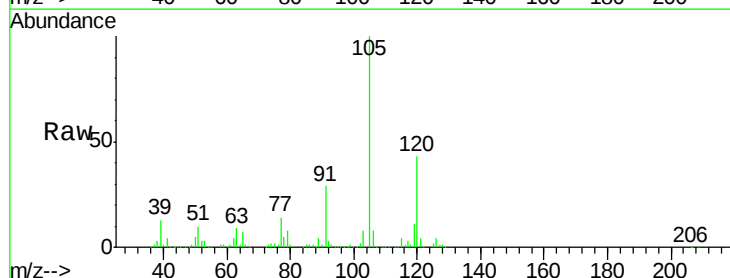
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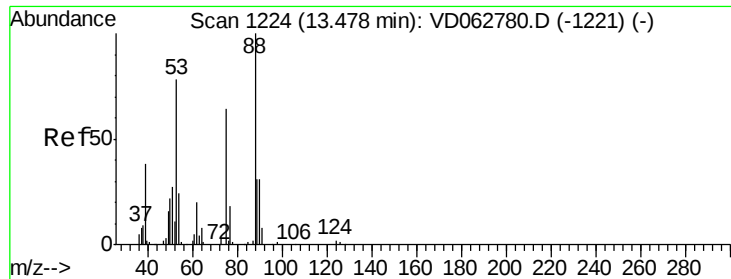
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#80
1,3,5-Trimethylbenzene
Concen: 50.250 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 105 Resp: 1622557
Ion Ratio Lower Upper
105 100
120 43.0 23.1 69.2





#81

trans-1,4-Dichloro-2-butene

Concen: 52.232 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 94748

Ion Ratio Lower Upper

75 100

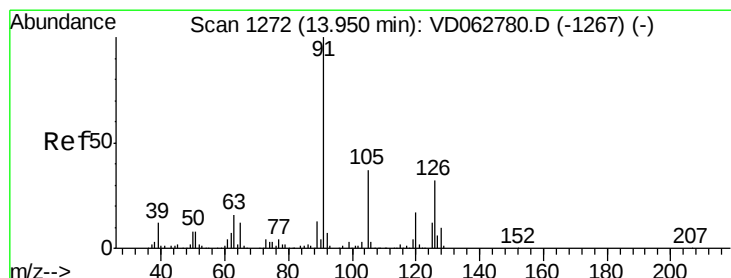
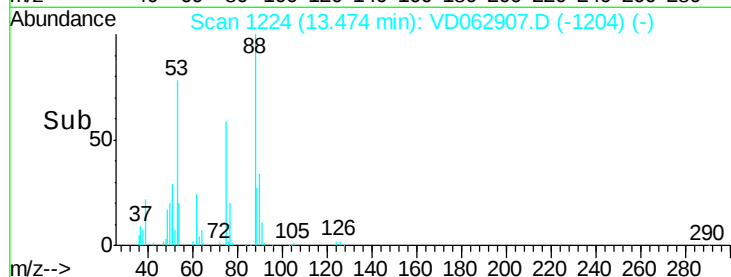
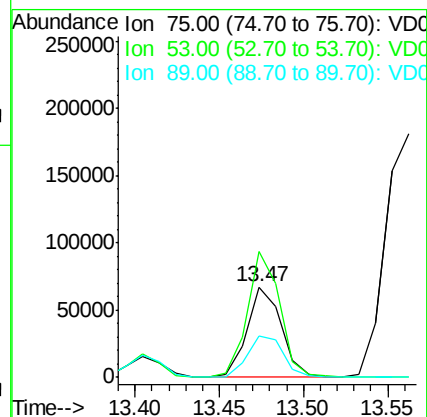
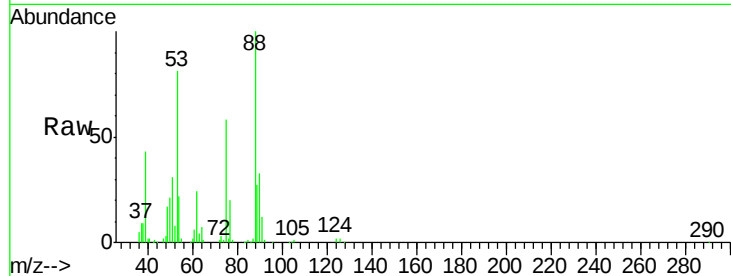
53 138.8 97.8 146.8

89 46.2 39.4 59.2

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#82

4-Chlorotoluene

Concen: 48.123 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD062907.D

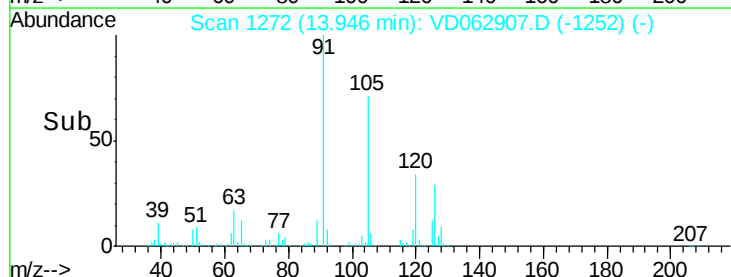
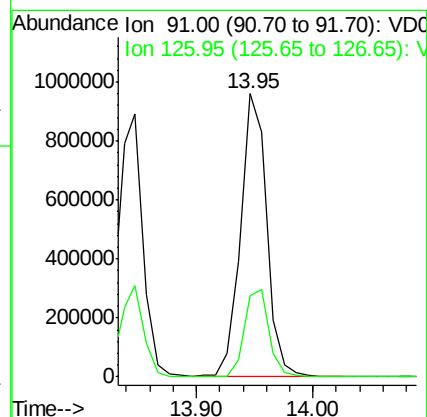
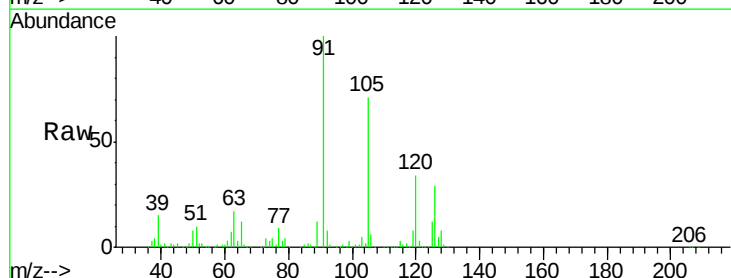
Acq: 26 Jun 2019 10:15

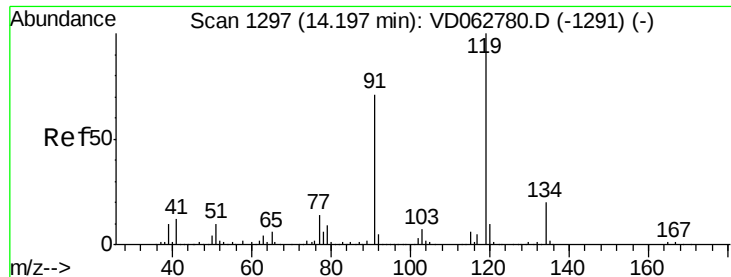
Tgt Ion: 91 Resp: 1481387

Ion Ratio Lower Upper

91 100

126 28.5 16.0 47.9





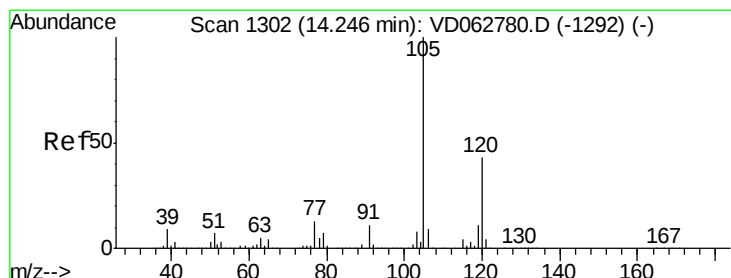
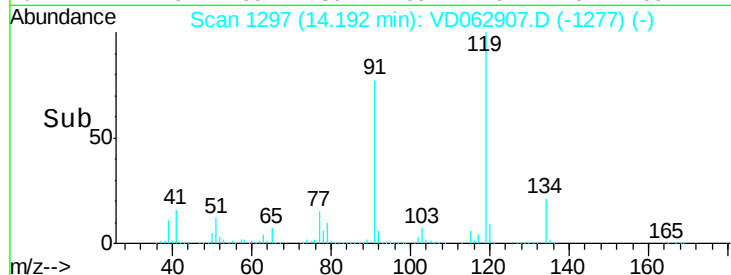
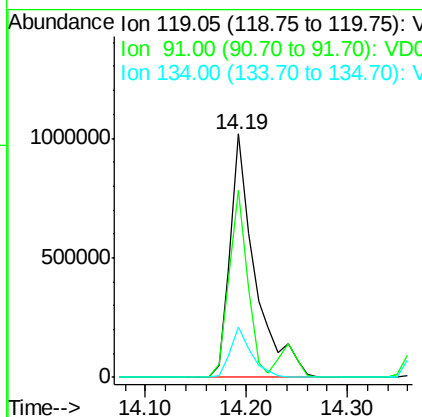
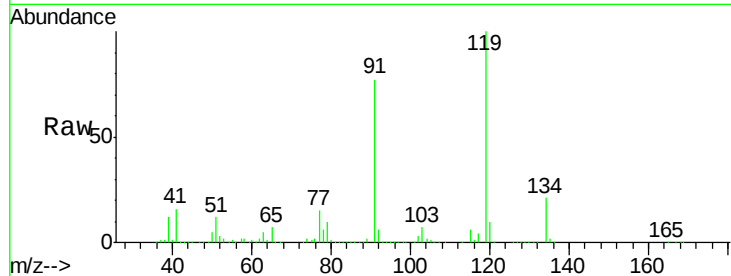
#83
tert-Butylbenzene
Concen: 48.613 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 1749664
Ion Ratio Lower Upper
119 100
91 77.1 35.5 106.5
134 20.7 10.2 30.6

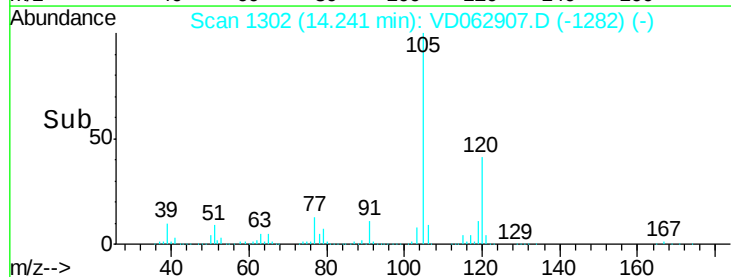
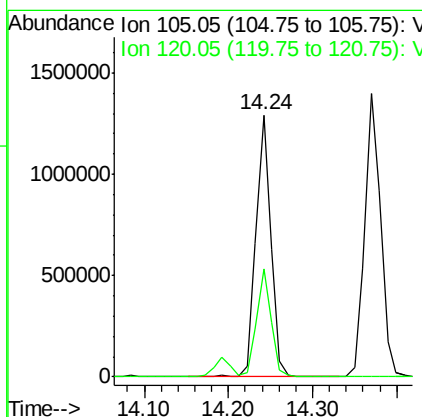
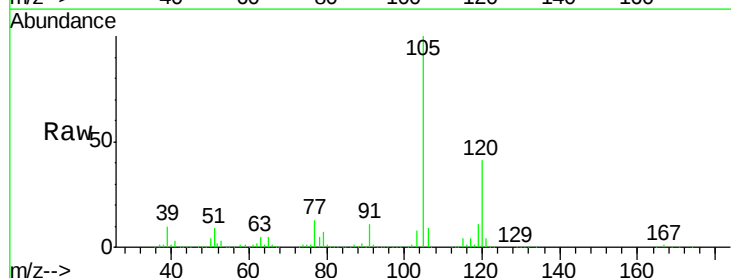
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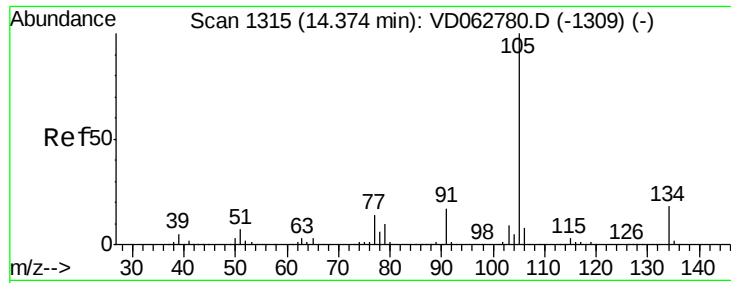
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#84
1,2,4-Trimethylbenzene
Concen: 48.995 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion:105 Resp: 1621524
Ion Ratio Lower Upper
105 100
120 41.1 21.3 63.9





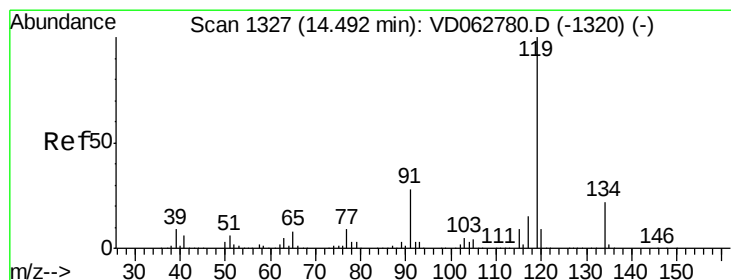
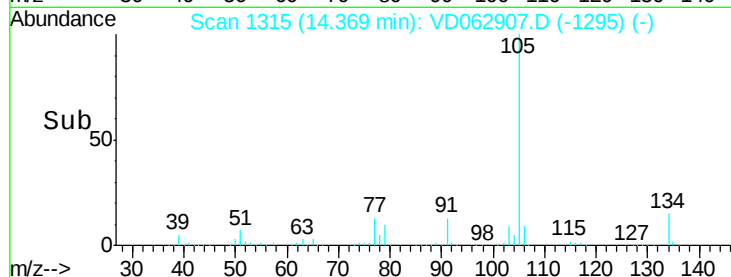
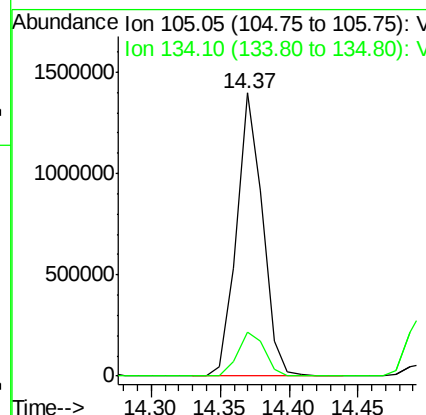
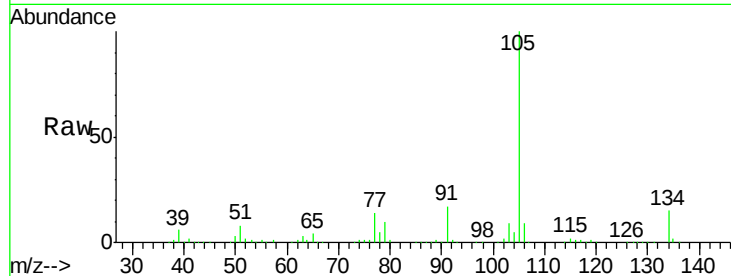
#85
 sec-Butylbenzene
 Concen: 46.608 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1823239
 Ion Ratio Lower Upper
 105 100
 134 15.4 9.1 27.3

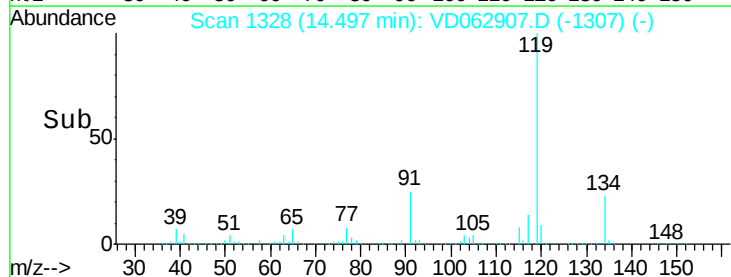
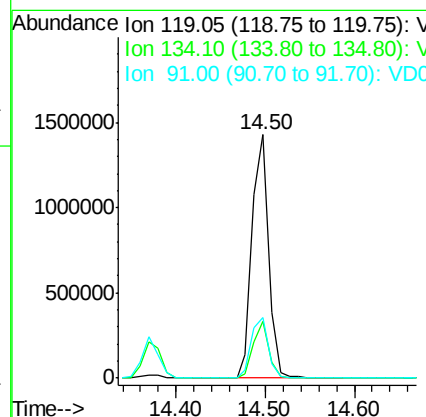
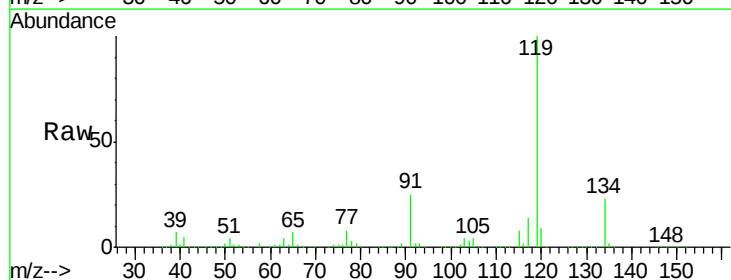
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#86
 p-Isopropyltoluene
 Concen: 51.211 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion:119 Resp: 1832696
 Ion Ratio Lower Upper
 119 100
 134 23.1 11.1 33.1
 91 24.7 14.0 41.9





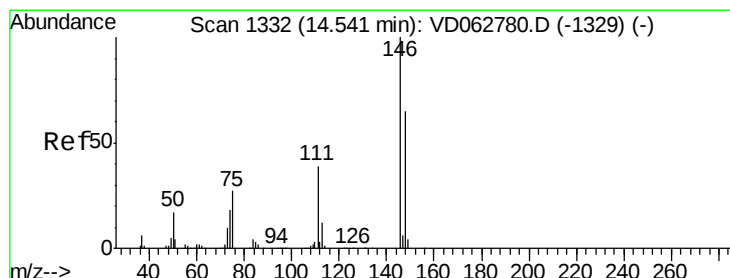
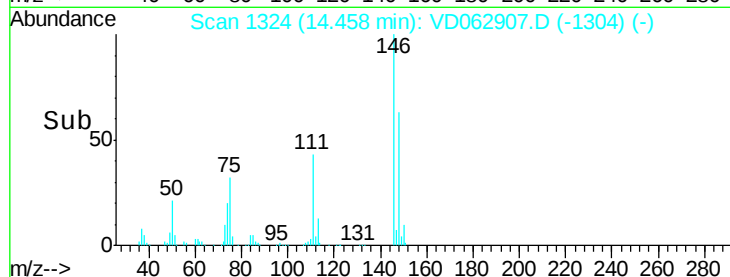
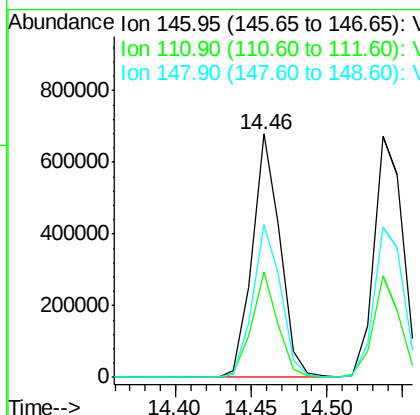
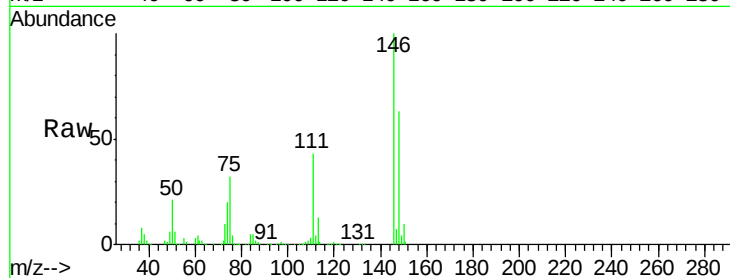
#87
 1,3-Dichlorobenzene
 Concen: 46.807 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	19.0	57.0
148	62.9	30.8	92.3

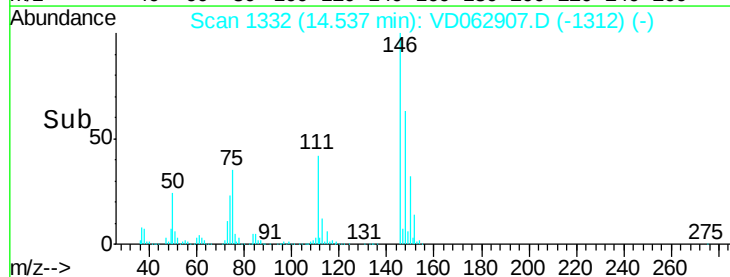
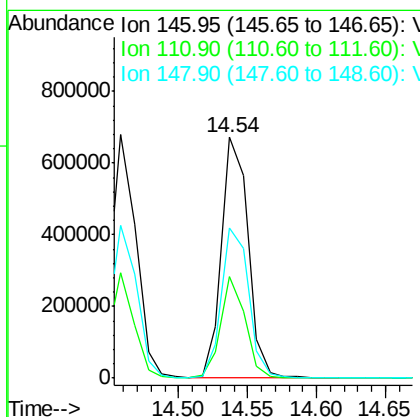
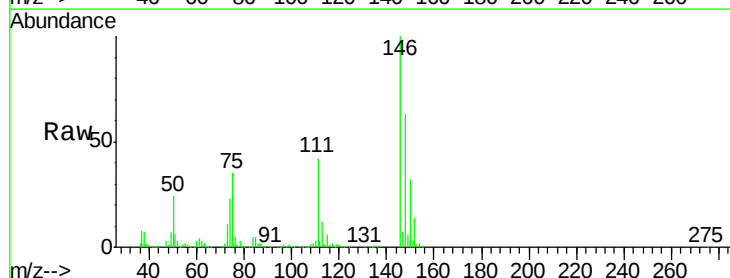
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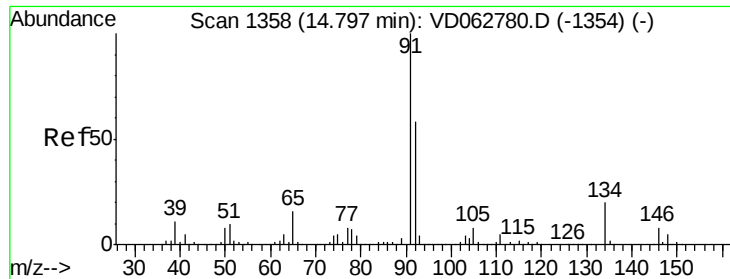
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#88
 1,4-Dichlorobenzene
 Concen: 48.159 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.7	59.1
148	62.5	32.8	98.3





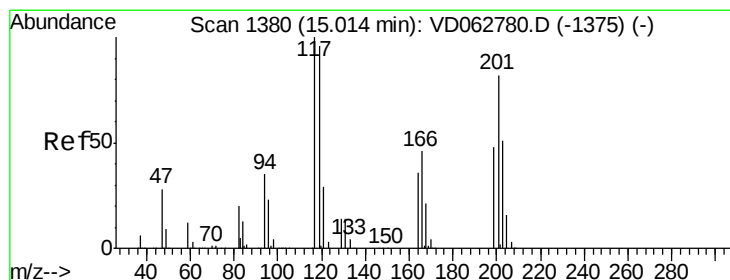
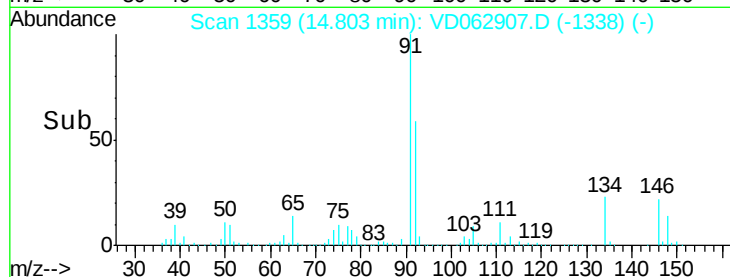
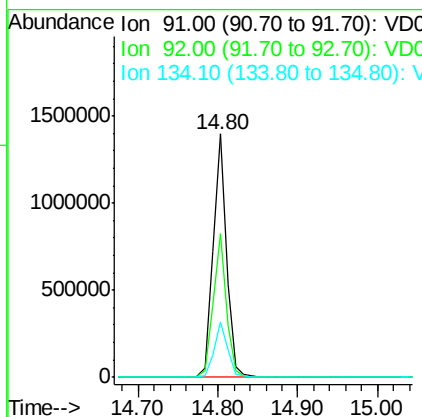
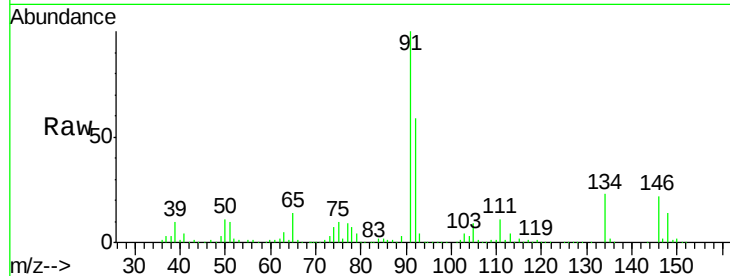
#89
n-Butylbenzene
Concen: 49.463 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1656783
Ion Ratio Lower Upper
91 100
92 58.8 28.9 86.7
134 23.0 10.1 30.3

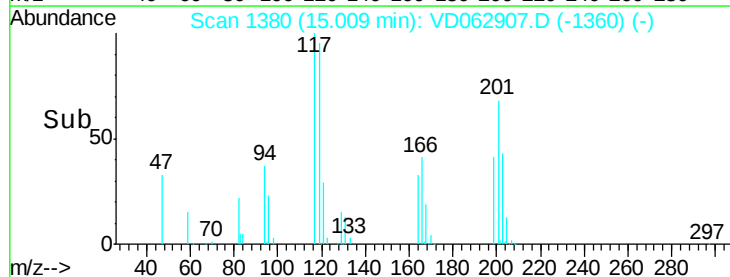
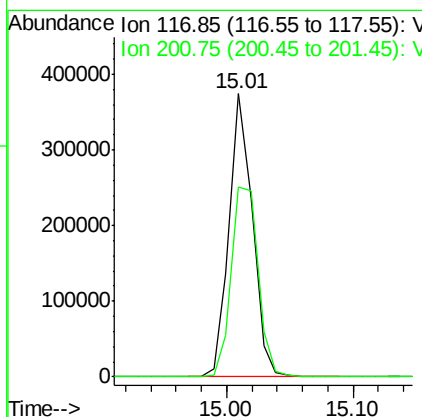
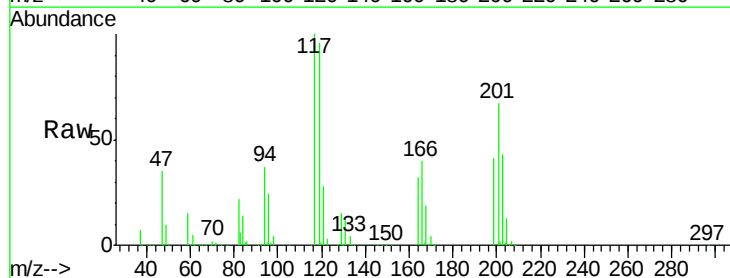
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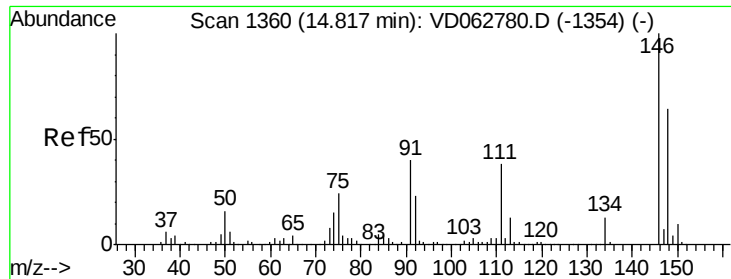
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#90
Hexachloroethane
Concen: 49.572 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion: 117 Resp: 476981
Ion Ratio Lower Upper
117 100
201 67.2 40.8 122.2





#91

1,2-Dichlorobenzene

Concen: 49.784 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Instrument :

MSVOA_D

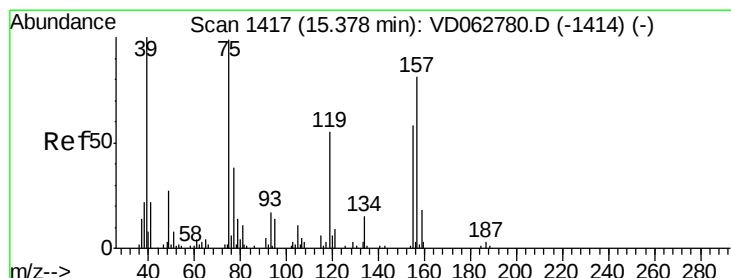
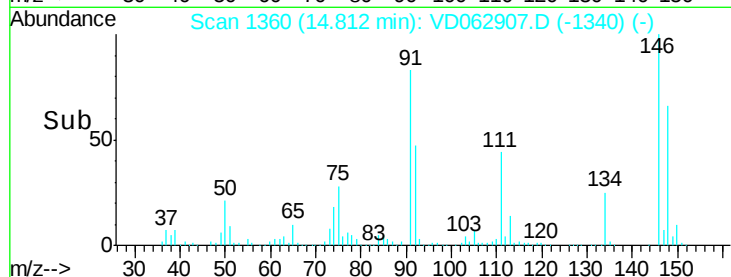
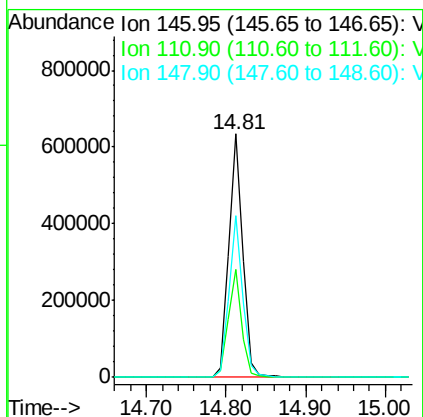
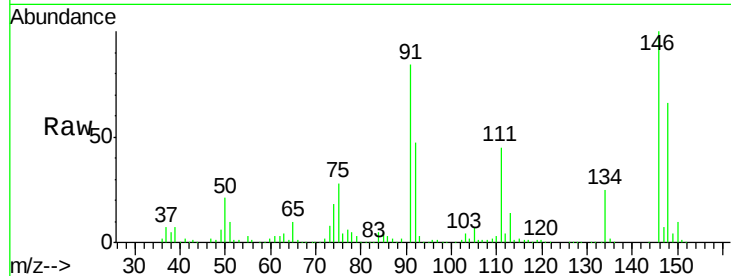
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	789475
Ion Ratio	Lower	Upper	
146	100		
111	44.6	19.1	57.1
148	66.2	32.3	96.8

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#92

1,2-Dibromo-3-Chloropropane

Concen: 55.474 ug/l

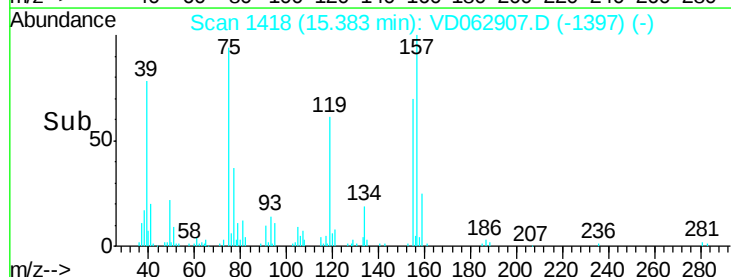
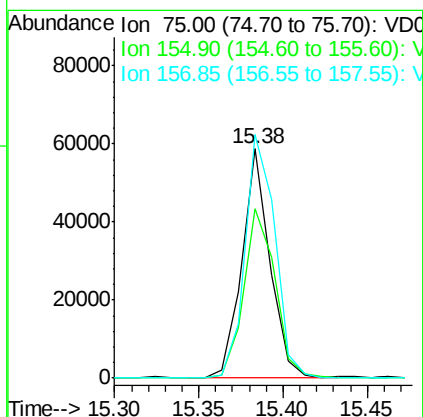
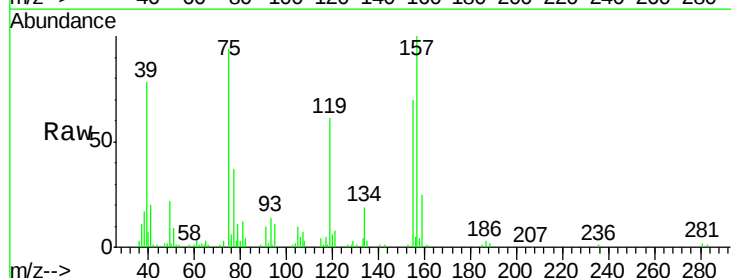
RT: 15.38 min Scan# 1418

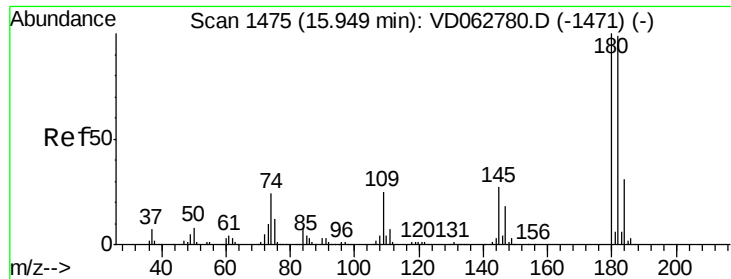
Delta R.T. 0.01 min

Lab File: VD062907.D

Acq: 26 Jun 2019 10:15

Tgt Ion:	75	Resp:	67817
Ion Ratio	Lower	Upper	
75	100		
155	74.0	29.3	87.8
157	106.4	41.3	123.7





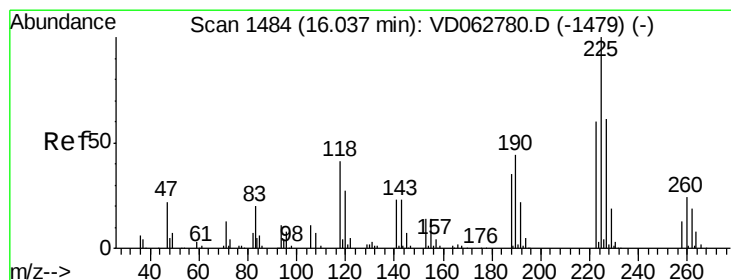
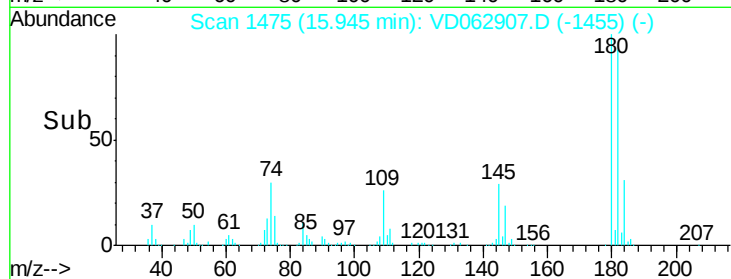
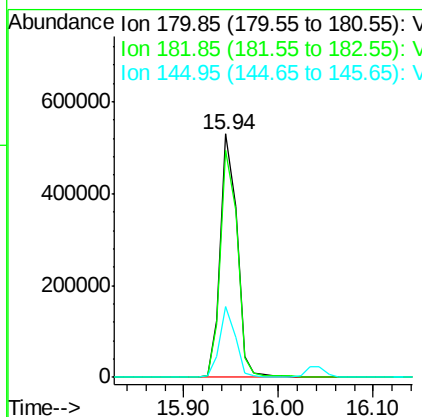
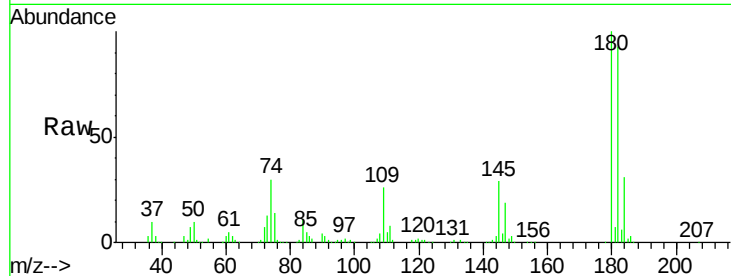
#93
 1,2,4-Trichlorobenzene
 Concen: 52.670 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.4	49.5	148.5
145	29.0	13.7	41.0

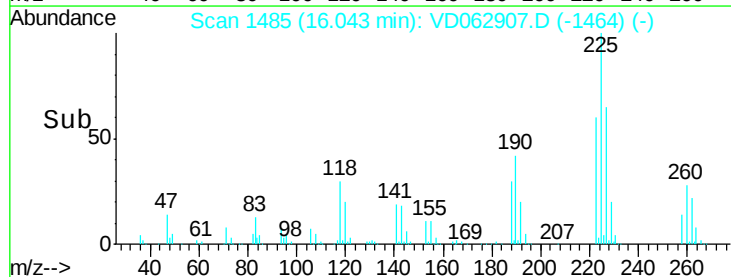
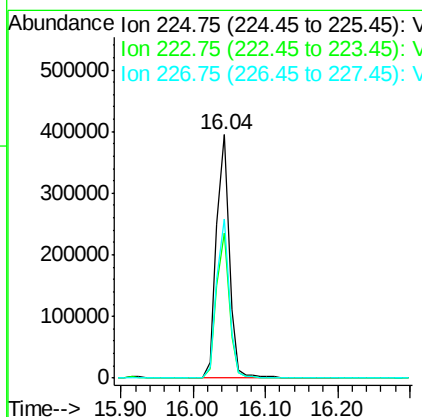
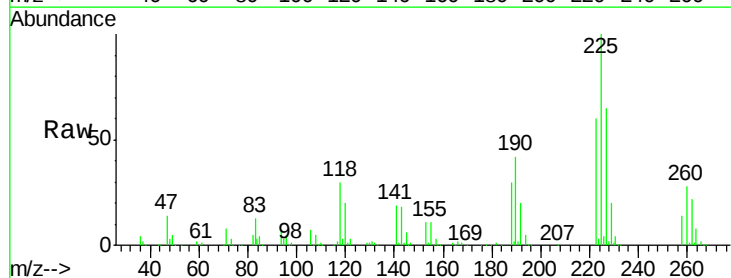
Manual Integrations
 APPROVED

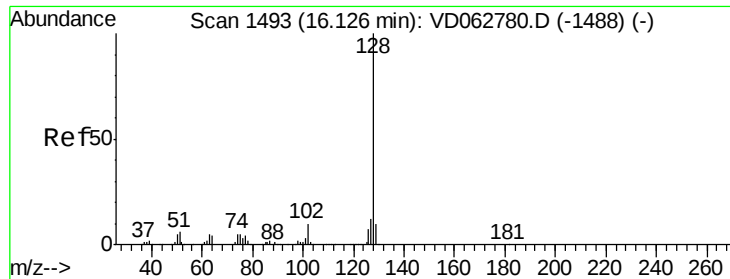
MMDadoda
 6/29/2019 7:22:33 AM



#94
 Hexachlorobutadiene
 Concen: 51.154 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062907.D
 Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.6	29.8	89.5
227	65.5	30.6	91.6





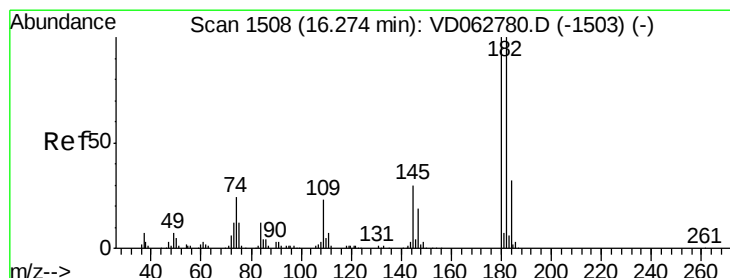
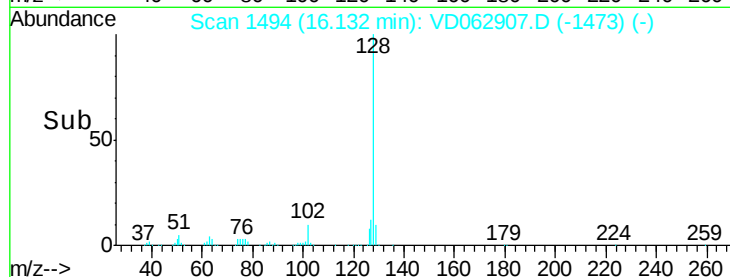
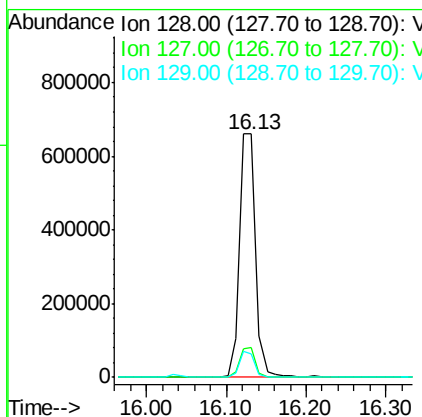
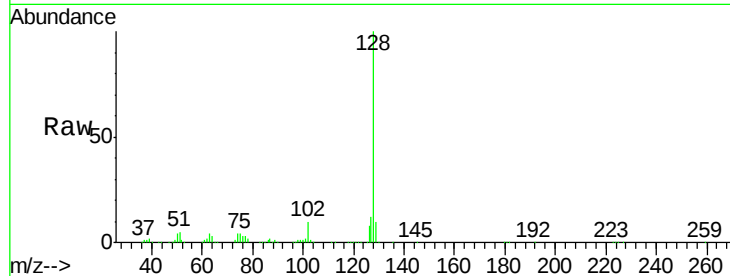
#95
Naphthalene
Concen: 53.963 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	936945		
127	12.0		9.7	14.5
129	9.8		8.3	12.5

Manual Integrations
APPROVED

MMDadoda
6/29/2019 7:22:33 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.265 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD062907.D
Acq: 26 Jun 2019 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	478417		
182	91.8		49.9	149.6
145	33.4		15.2	45.5

