

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063144.D
 Acq On : 17 Jul 2019 21:10
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 7/18/2019 10:01:35 AM

Quant Time: Jul 18 08:10:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	578642	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	768311	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	714335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	363498	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	373196	51.77	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.54%		
35) Dibromofluoromethane	6.92	113	389459	50.89	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.78%		
50) Toluene-d8	10.40	98	832650	50.65	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.30%		
62) 4-Bromofluorobenzene	13.55	95	396602	52.15	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.30%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	348004	56.194	ug/l	98
3) Chloromethane	1.73	50	274064	52.494	ug/l	95
4) Vinyl Chloride	1.83	62	294974	47.763	ug/l	98
5) Bromomethane	2.13	94	144463	62.161	ug/l	96
6) Chloroethane	2.25	64	141665	49.382	ug/l	89
7) Trichlorofluoromethane	2.52	101	667473	53.390	ug/l	98
8) Diethyl Ether	2.85	74	91234	51.878	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.13	101	356718	49.484	ug/l	96
10) Methyl Iodide	3.29	142	457127	51.653	ug/l	96
11) Tert butyl alcohol	4.06	59	109181	262.462	ug/l #	85
12) 1,1-Dichloroethene	3.11	96	259015	50.598	ug/l	92
13) Acrolein	3.02	56	22002	175.243	ug/l	86
14) Allyl chloride	3.60	41	398252	49.501	ug/l	93
15) Acrylonitrile	4.18	53	242874	264.124	ug/l	96
16) Acetone	3.21	43	445945	256.148	ug/l	99
17) Carbon Disulfide	3.35	76	658000	44.907	ug/l	98
18) Methyl Acetate	3.63	43	141132	60.612	ug/l	96
19) Methyl tert-butyl Ether	4.22	73	627568	48.565	ug/l	99
20) Methylene Chloride	3.80	84	292072	44.406	ug/l	99
21) trans-1,2-Dichloroethene	4.20	96	269436	47.413	ug/l	95
22) Diisopropyl ether	5.11	45	913922	52.248	ug/l	94
23) Vinyl Acetate	5.04	43	2955037	289.564	ug/l	99
24) 1,1-Dichloroethane	4.97	63	553071	51.330	ug/l #	97
25) 2-Butanone	6.06	43	460541	277.020	ug/l	95
26) 2,2-Dichloropropane	6.01	77	591922	49.638	ug/l	96
27) cis-1,2-Dichloroethene	6.03	96	337860	52.265	ug/l	86
28) Bromochloromethane	6.43	49	195475	50.006	ug/l	95
29) Tetrahydrofuran	6.45	42	222191	294.834	ug/l	99
30) Chloroform	6.65	83	746024	56.219	ug/l	97
31) Cyclohexane	6.95	56	332495	48.455	ug/l	90
32) 1,1,1-Trichloroethane	6.86	97	746347	57.037	ug/l	95
36) 1,1-Dichloropropene	7.13	75	462274	53.497	ug/l	95
37) Ethyl Acetate	6.18	43	210863	57.019	ug/l #	91
38) Carbon Tetrachloride	7.09	117	728110m	55.453	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	378028	50.603	ug/l	95
40) Benzene	7.44	78	978750	54.081	ug/l	99
41) Methacrylonitrile	6.45	41	288096	57.461	ug/l #	86
42) 1,2-Dichloroethane	7.57	62	552224	57.273	ug/l	97
43) Isopropyl Acetate	9.23	43	297617	56.146	ug/l	97
44) Trichloroethene	8.53	130	376982	53.899	ug/l	92
45) 1,2-Dichloropropane	8.93	63	232399	51.505	ug/l	98
46) Dibromomethane	9.05	93	218032	56.231	ug/l	94
47) Bromodichloromethane	9.37	83	559830	55.329	ug/l	97
48) Methyl methacrylate	9.11	41	201595	57.913	ug/l	95
49) 1,4-Dioxane	9.07	88	38390	1278.783	ug/l #	79
51) 4-Methyl-2-Pentanone	10.29	43	1054247	299.864	ug/l	94
52) Toluene	10.50	92	641547	53.085	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	464520	53.585	ug/l	98
54) cis-1,3-Dichloropropene	10.04	75	482987	53.884	ug/l	96
55) 1,1,2-Trichloroethane	11.18	97	239287	57.294	ug/l	98
56) Ethyl methacrylate	11.03	69	242167	51.896	ug/l	95
57) 1,3-Dichloropropane	11.40	76	367652	57.852	ug/l	91
58) 2-Chloroethyl Vinyl ether	9.85	63	642105	247.129	ug/l	98
59) 2-Hexanone	11.52	43	806831	297.572	ug/l	99
60) Dibromochloromethane	11.68	129	428462	53.519	ug/l	97
61) 1,2-Dibromoethane	11.80	107	285117	57.033	ug/l	99
64) Tetrachloroethene	11.25	164	349662	50.446	ug/l	99
65) Chlorobenzene	12.39	112	870244	51.825	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	390511	50.160	ug/l	96
67) Ethyl Benzene	12.52	91	1463547	50.162	ug/l	99
68) m/p-Xylenes	12.67	106	1064783	101.892	ug/l	99
69) o-Xylene	13.04	106	486781	49.125	ug/l	91
70) Styrene	13.07	104	816157	47.055	ug/l	98
71) Bromoform	13.23	173	298912	54.842	ug/l	97
73) Isopropylbenzene	13.40	105	1563269	55.688	ug/l	95
74) N-amyl acetate	13.26	43	397261	50.742	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	13.70	83	281342	55.084	ug/l	91
76) 1,2,3-Trichloropropane	13.73	75	299600	53.580	ug/l	95
77) Bromobenzene	13.67	156	417835	52.487	ug/l	97
78) n-propylbenzene	13.77	91	1735462	53.722	ug/l	98
79) 2-Chlorotoluene	13.84	91	996456	51.016	ug/l	96
80) 1,3,5-Trimethylbenzene	13.93	105	1222894	49.983	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.46	75	79231	53.808	ug/l	97
82) 4-Chlorotoluene	13.95	91	1220817	53.525	ug/l	99
83) tert-Butylbenzene	14.18	119	1498646	54.173	ug/l	84
84) 1,2,4-Trimethylbenzene	14.23	105	1309244	53.676	ug/l	100
85) sec-Butylbenzene	14.36	105	1548254	52.675	ug/l	95
86) p-Isopropyltoluene	14.49	119	1404121	51.209	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	789597	55.540	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	716182	52.547	ug/l	99
89) n-Butylbenzene	14.79	91	1326398	52.483	ug/l	100
90) Hexachloroethane	15.00	117	413469	56.408	ug/l	68
91) 1,2-Dichlorobenzene	14.80	146	684268	54.052	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.37	75	52680	53.810	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	497930	52.354	ug/l	96
94) Hexachlorobutadiene	16.03	225	404160	57.652	ug/l	95
95) Naphthalene	16.12	128	740419	53.221	ug/l	97
96) 1,2,3-Trichlorobenzene	16.27	180	444848	58.143	ug/l	97

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

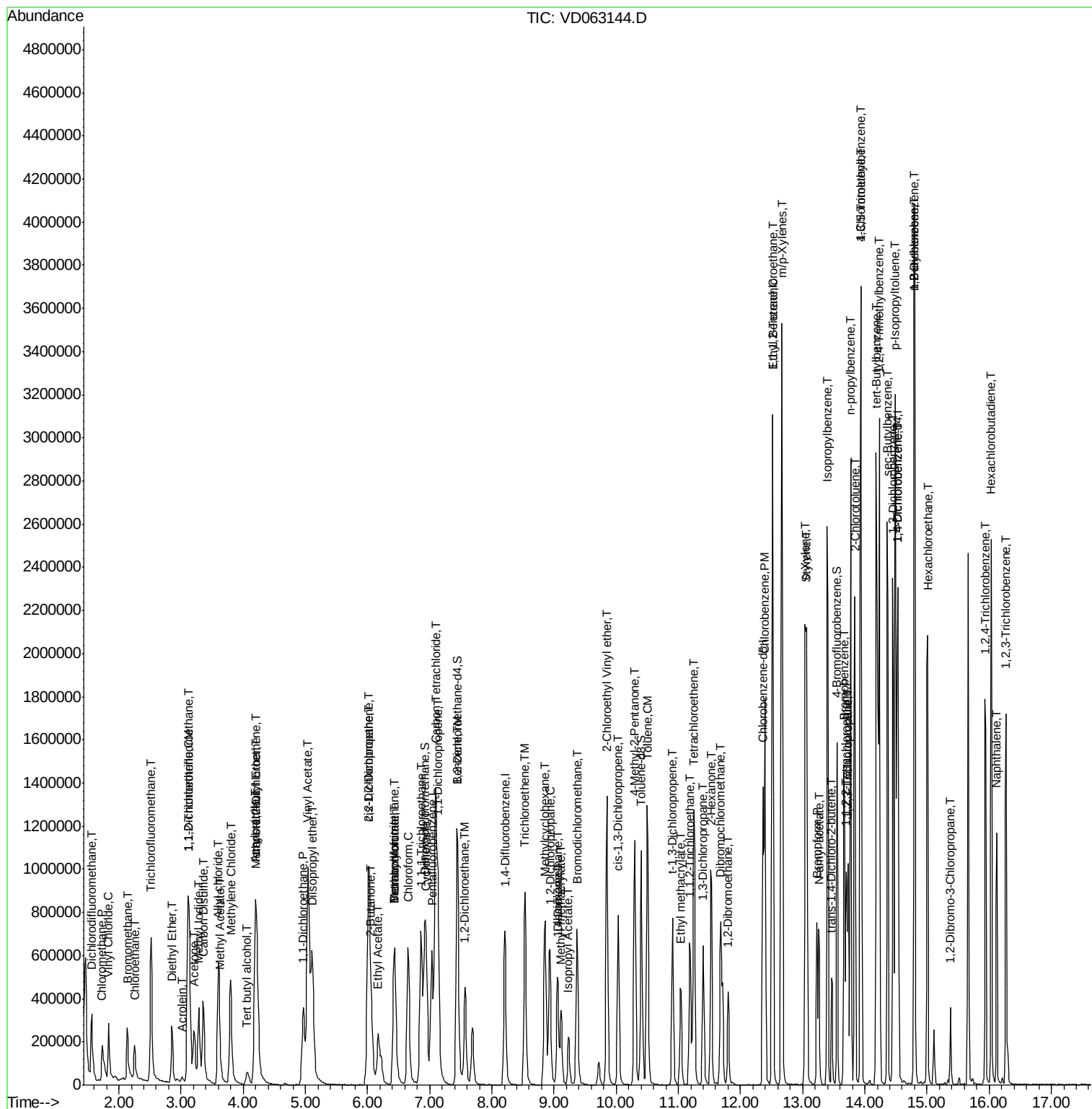
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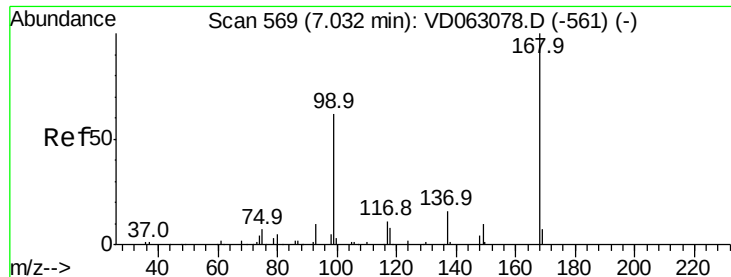
Instrument :
MSVOA_D
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 578642

Ion Ratio Lower Upper

168 100

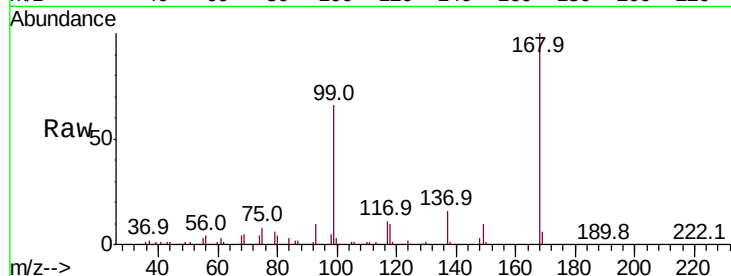
99 65.7 50.8 76.2

Manual Integrations

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7/18/2019 10:01:35 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

200000

150000

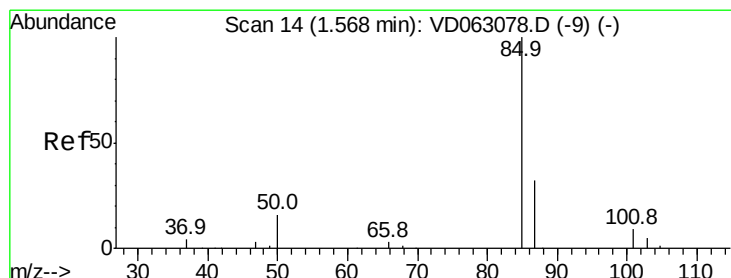
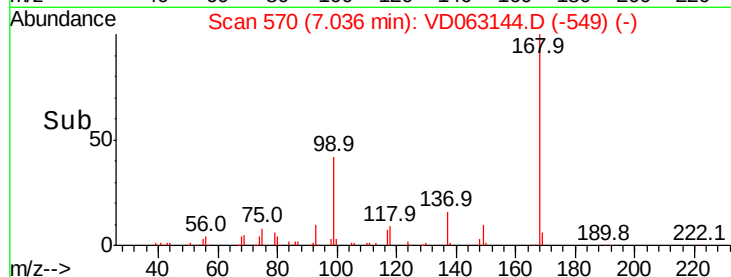
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 56.194 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063144.D

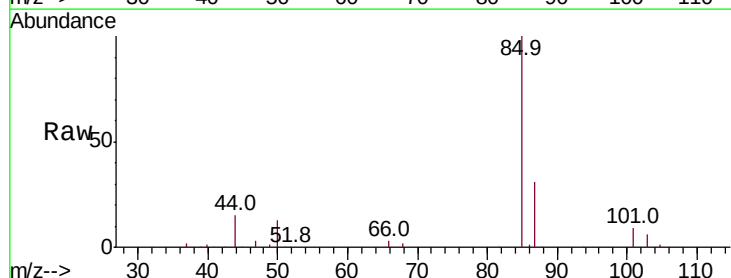
Acq: 17 Jul 2019 21:10

Tgt Ion: 85 Resp: 348004

Ion Ratio Lower Upper

85 100

87 30.6 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.56

200000

150000

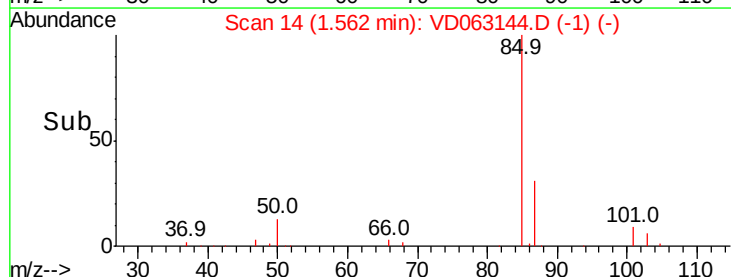
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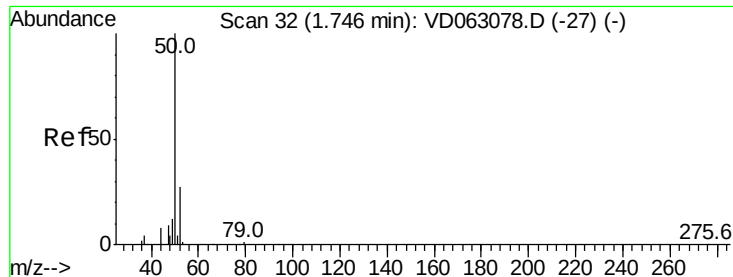
50000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 52.494 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.02 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 274064

Ion Ratio Lower Upper

50 100

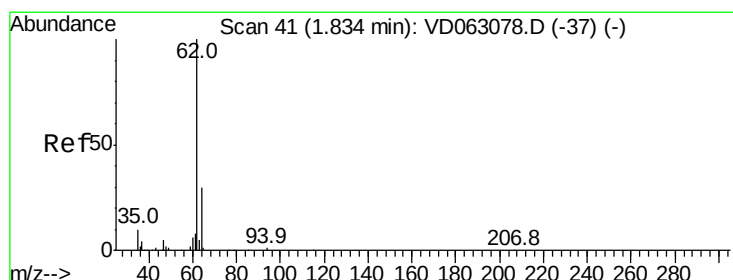
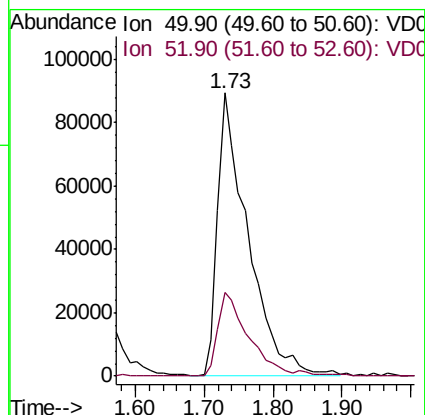
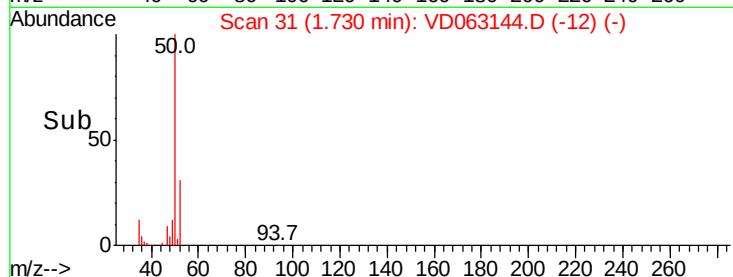
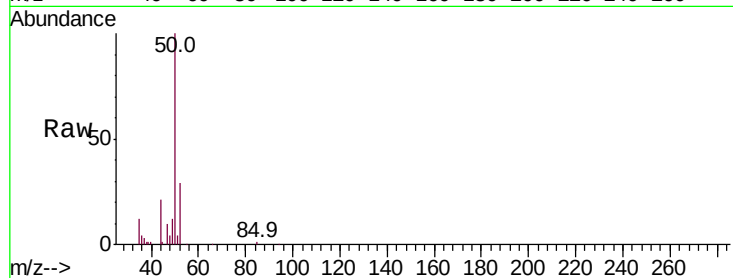
52 29.5 21.4 32.2

Manual Integrations

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7/18/2019 10:01:35 AM



#4

Vinyl Chloride

Concen: 47.763 ug/l

RT: 1.83 min Scan# 41

Delta R.T. -0.01 min

Lab File: VD063144.D

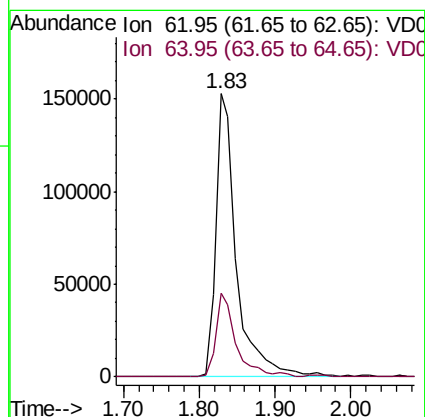
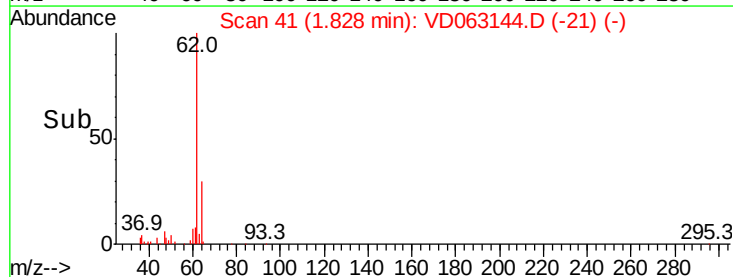
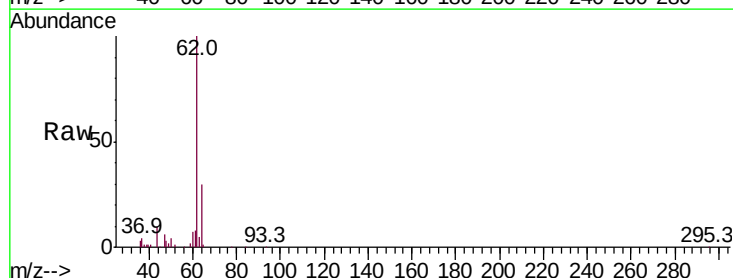
Acq: 17 Jul 2019 21:10

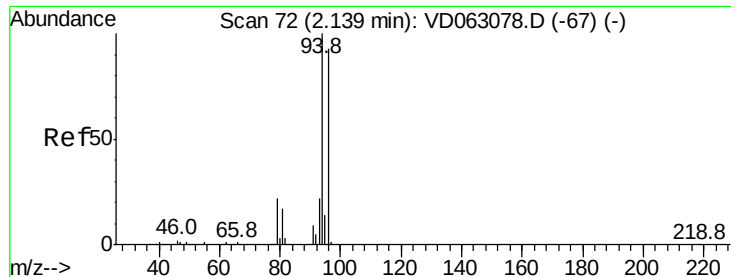
Tgt Ion: 62 Resp: 294974

Ion Ratio Lower Upper

62 100

64 29.6 24.4 36.6





#5

Bromomethane

Concen: 62.161 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 144463

Ion Ratio Lower Upper

94 100

96 96.7 74.2 111.2

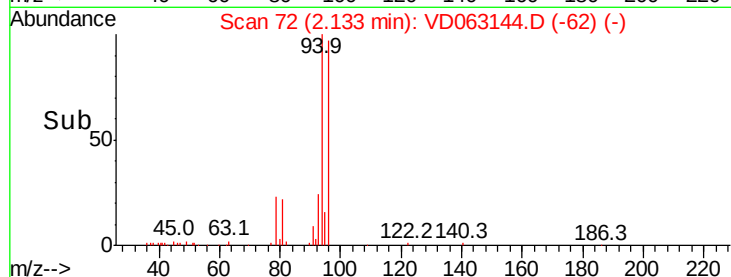
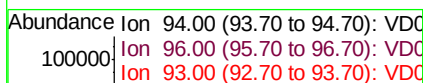
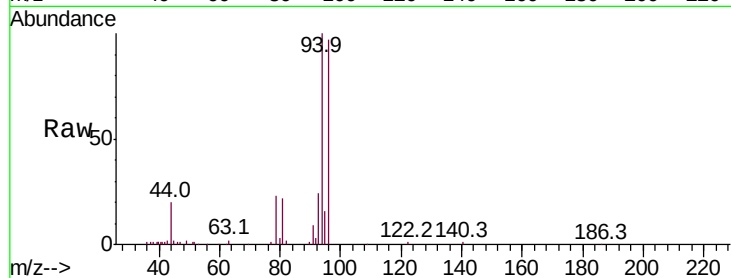
93 24.3 17.8 26.6

Manual Integrations

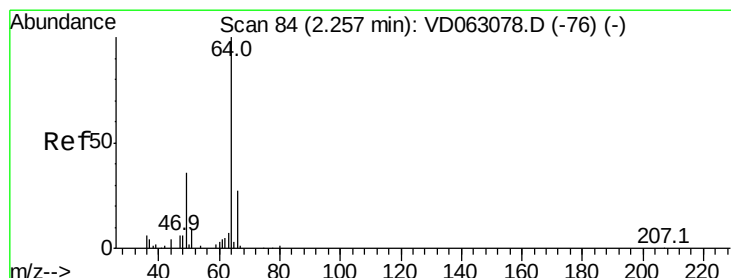
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7/18/2019 10:01:35 AM



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#6

Chloroethane

Concen: 49.382 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063144.D

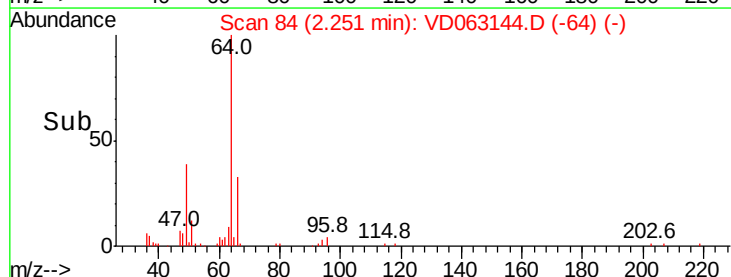
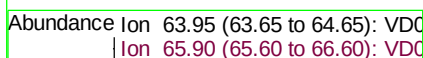
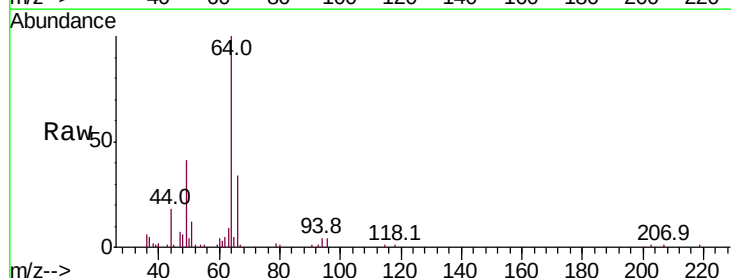
Acq: 17 Jul 2019 21:10

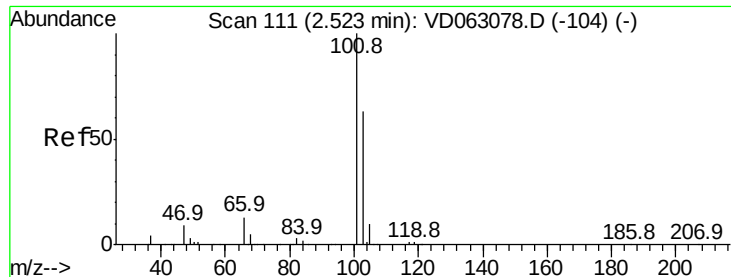
Tgt Ion: 64 Resp: 141665

Ion Ratio Lower Upper

64 100

66 33.7 22.5 33.7





#7

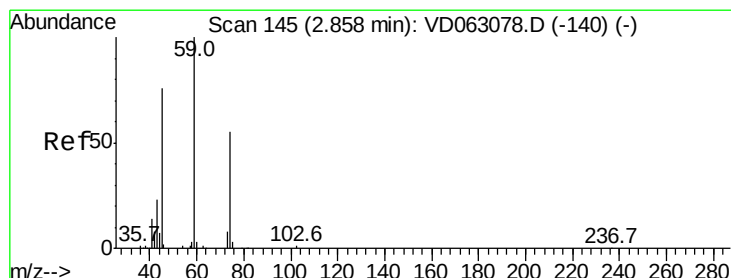
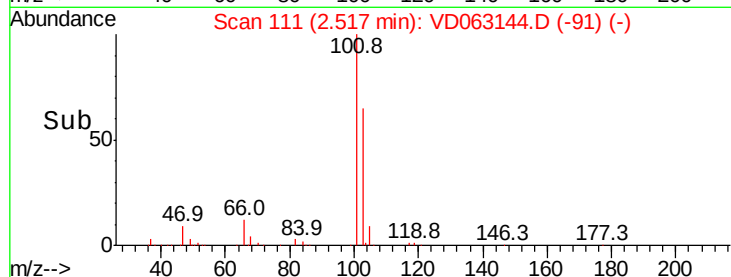
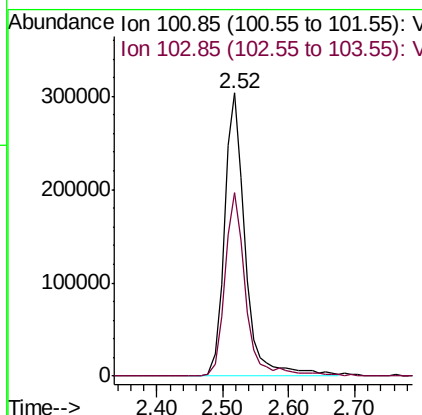
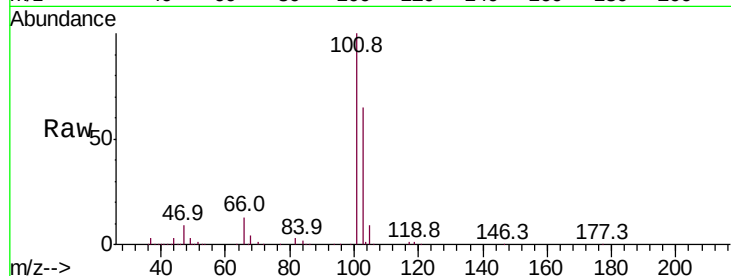
Trichlorofluoromethane
Concen: 53.390 ug/l
RT: 2.52 min Scan# 111
Delta R.T. -0.01 min
Lab File: VD063144.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	50.6	76.0

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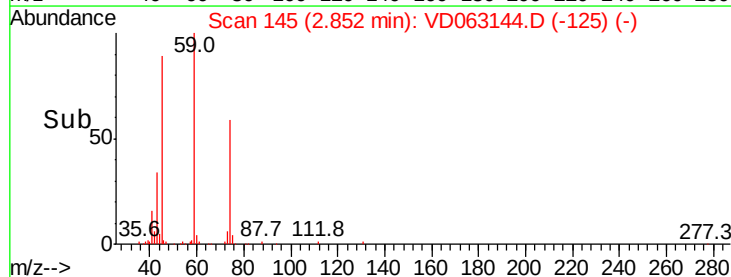
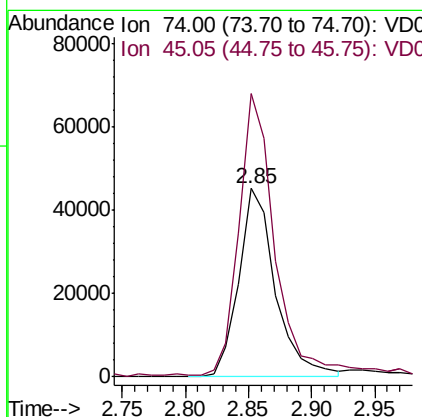
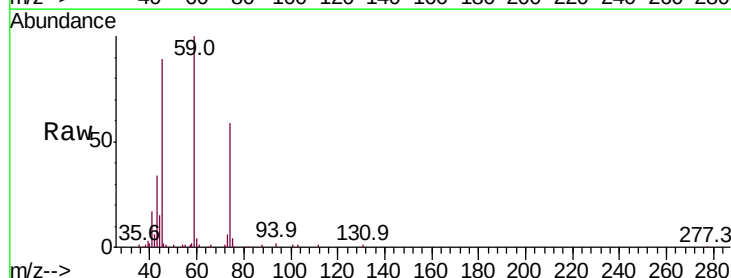
MMDadoda
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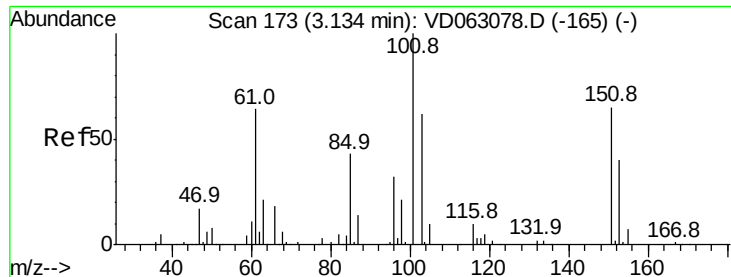


#8

Diethyl Ether
Concen: 51.878 ug/l
RT: 2.85 min Scan# 145
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	150.5	69.5	208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.484 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.01 min

Lab File: VD063144.D

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Instrument :

MSVOA_D

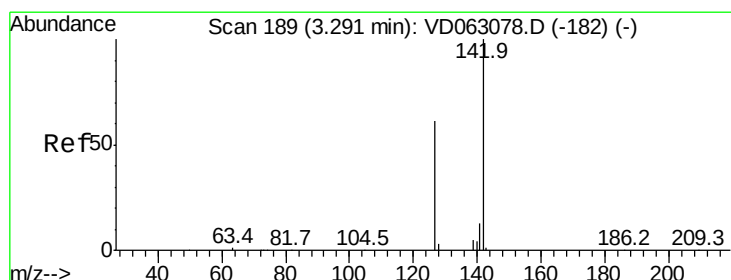
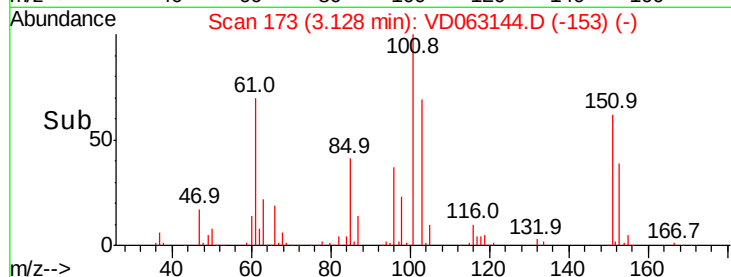
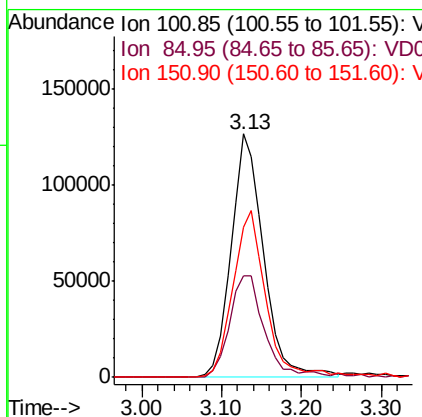
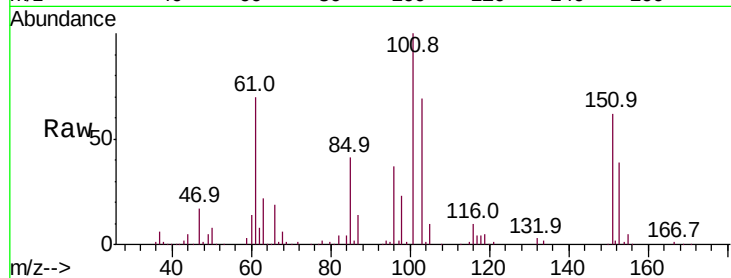
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	356718
Ion Ratio	Lower	Upper	
101	100		
85	41.5	34.6	51.8
151	61.8	52.4	78.6

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#10

Methyl Iodide

Concen: 51.653 ug/l

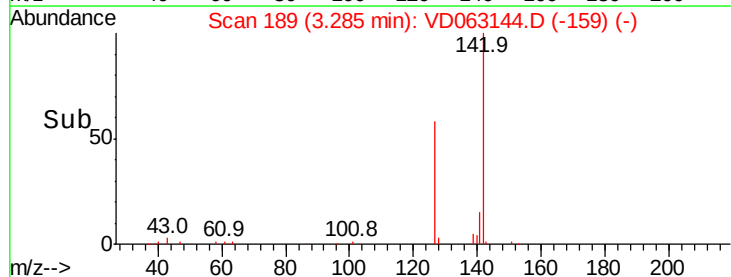
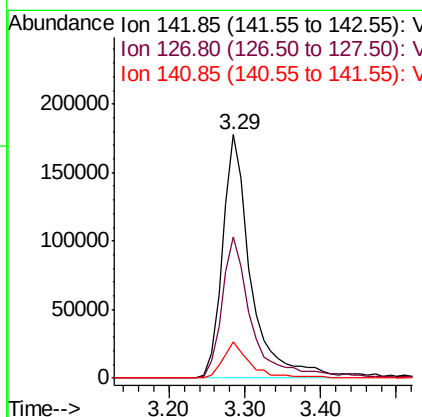
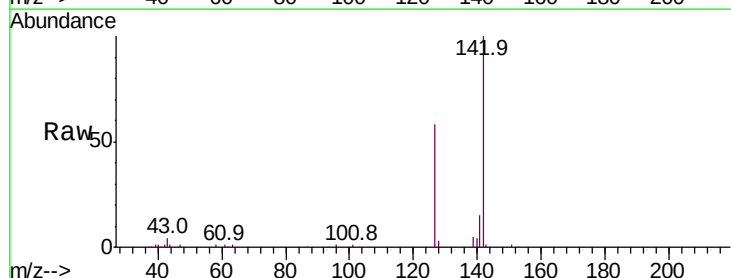
RT: 3.29 min Scan# 189

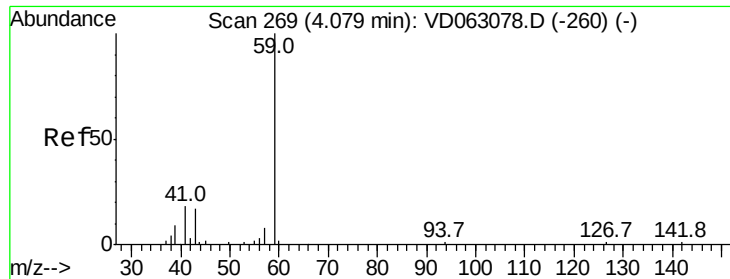
Delta R.T. -0.01 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Tgt Ion:	142	Resp:	457127
Ion Ratio	Lower	Upper	
142	100		
127	58.1	48.6	73.0
141	15.0	10.6	16.0





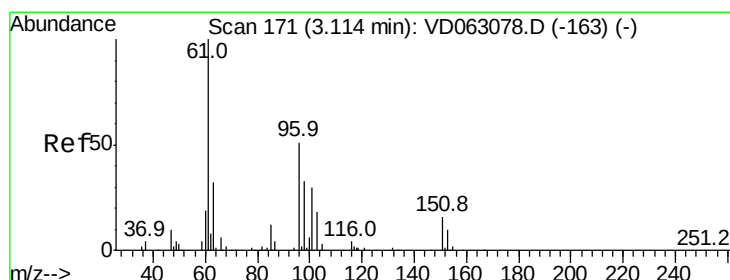
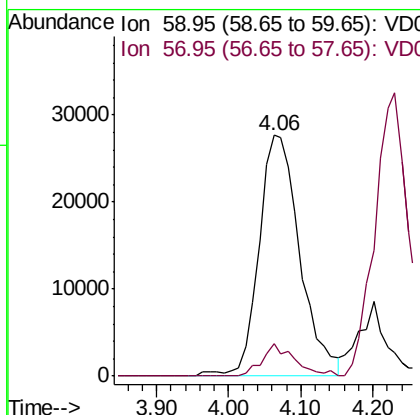
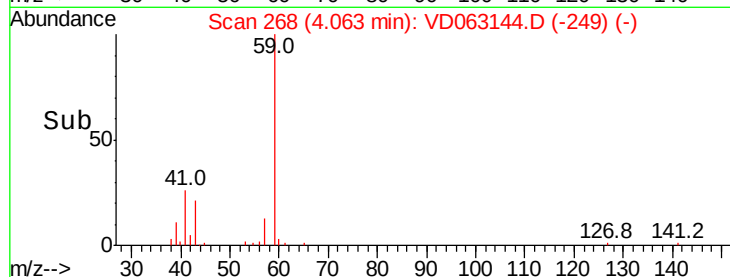
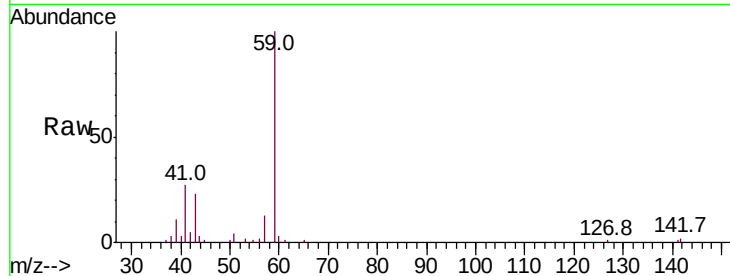
#11
Tert butyl alcohol
Concen: 262.462 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.02 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 59 Resp: 109181
Ion Ratio Lower Upper
59 100
57 13.3 6.4 9.6#

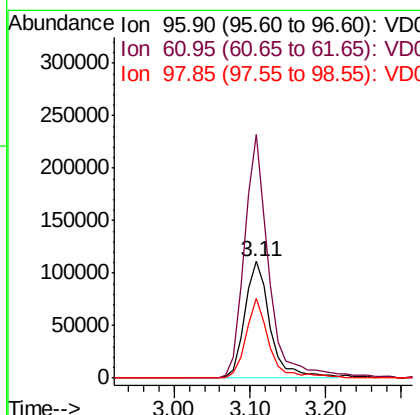
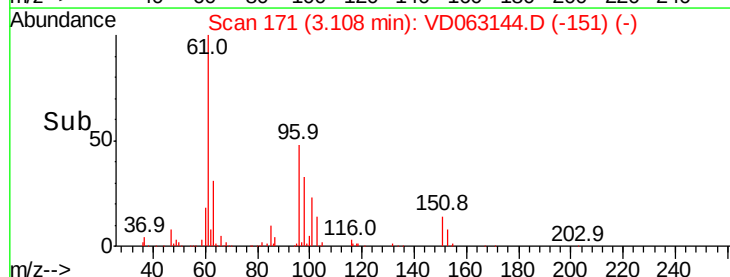
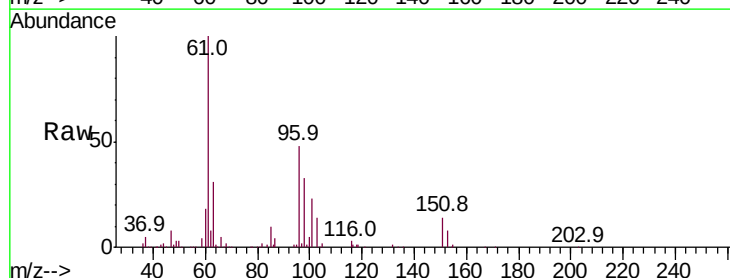
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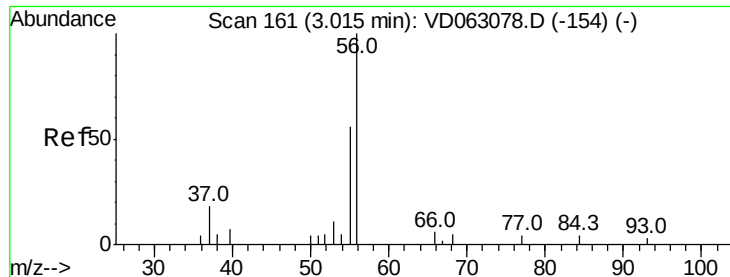
MMDadoda
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#12
1,1-Dichloroethene
Concen: 50.598 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion: 96 Resp: 259015
Ion Ratio Lower Upper
96 100
61 208.9 155.5 233.3
98 68.0 51.5 77.3





#13

Acrolein

Concen: 175.243 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 22002

Ion Ratio Lower Upper

56 100

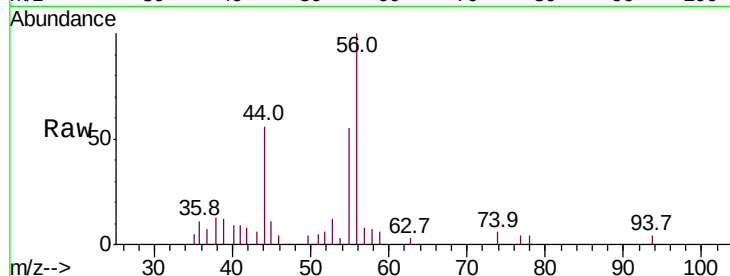
55 55.3 53.0 79.4

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

12000

10000

8000

6000

4000

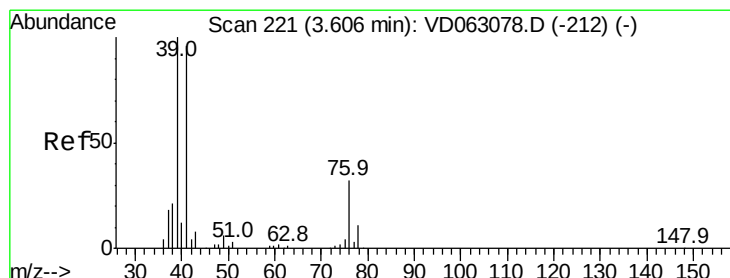
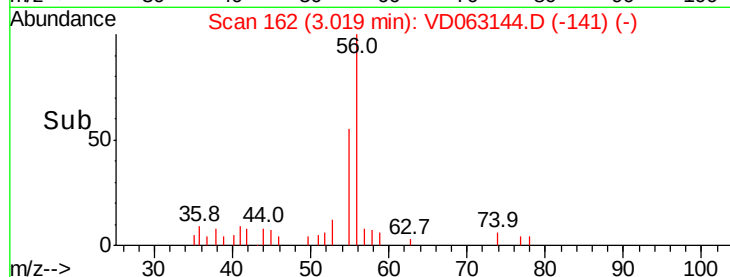
2000

0

Time-->

2.90 3.00 3.10 3.20

3.02



#14

Allyl chloride

Concen: 49.501 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.01 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

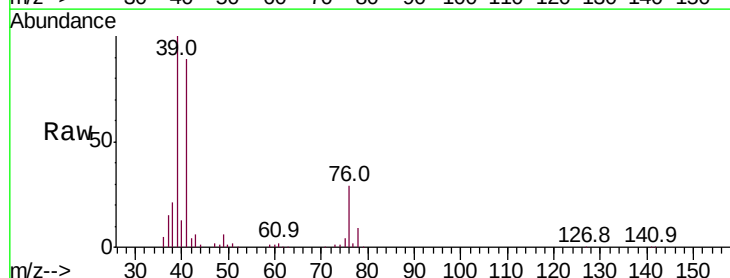
Tgt Ion: 41 Resp: 398252

Ion Ratio Lower Upper

41 100

39 112.9 83.5 125.3

76 33.2 27.8 41.8



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

200000

150000

100000

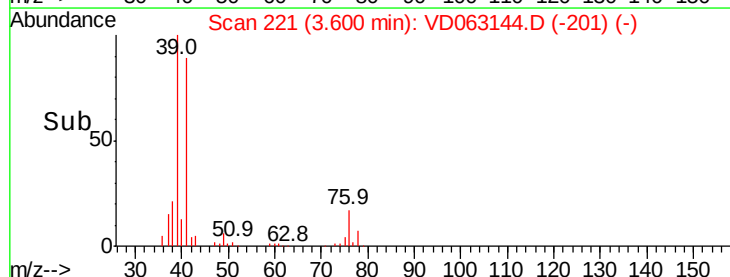
50000

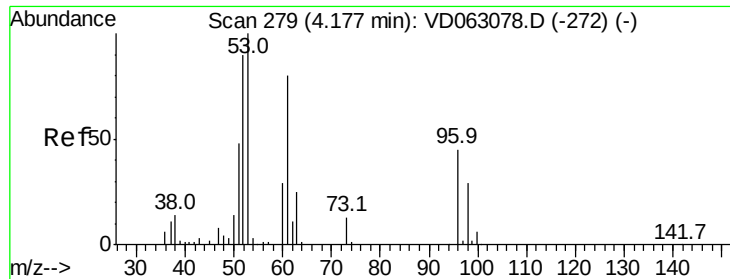
0

Time-->

3.50 3.60 3.70 3.80

3.60





#15

Acrylonitrile

Concen: 264.124 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 53 Resp: 242874

Ion Ratio Lower Upper

53 100

52 93.2 72.3 108.5

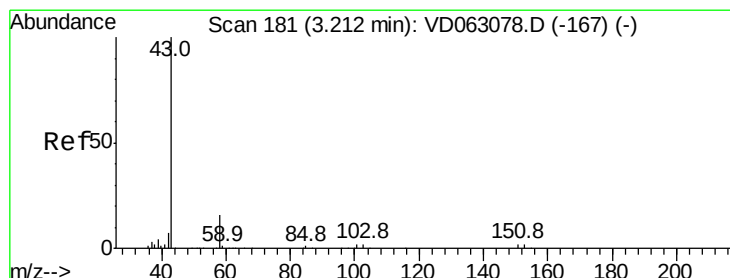
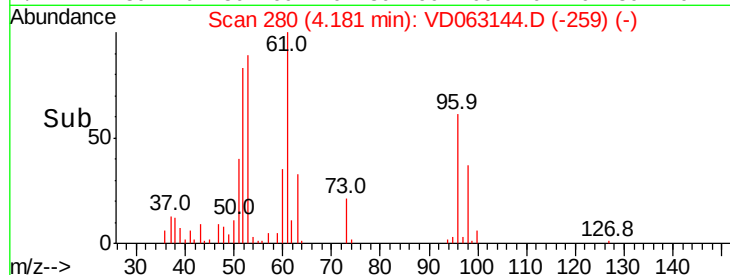
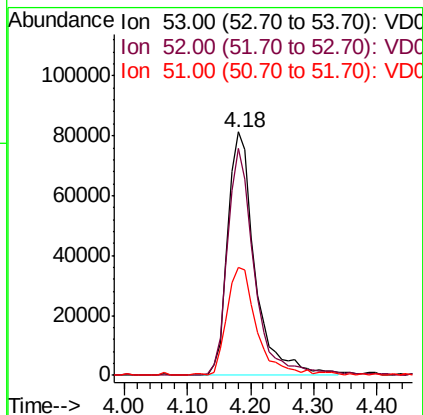
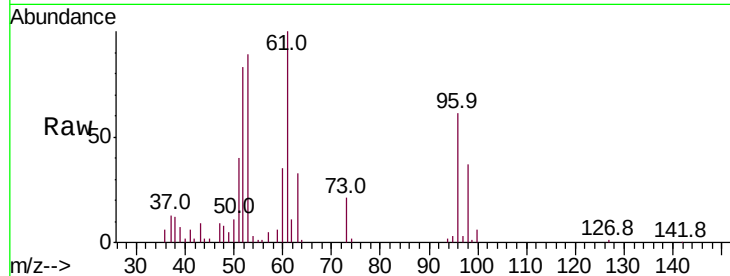
51 44.5 38.0 57.0

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#16

Acetone

Concen: 256.148 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063144.D

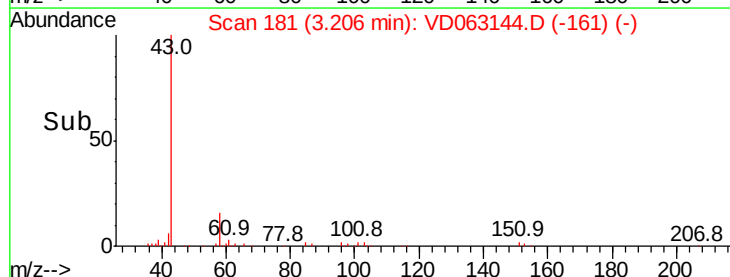
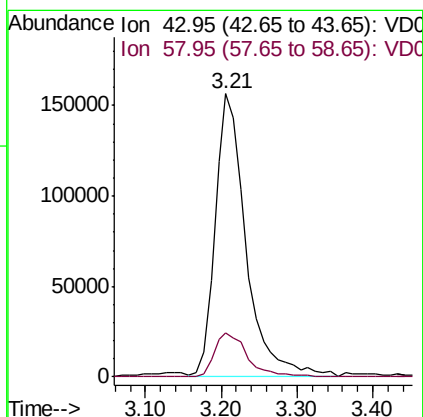
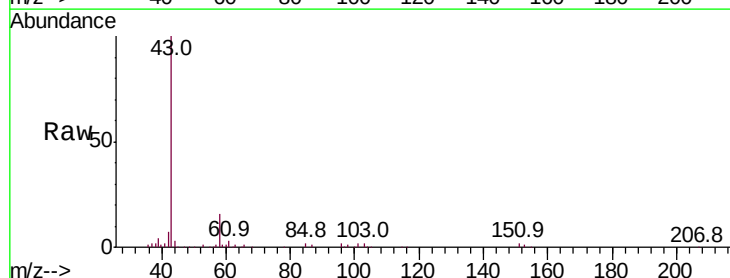
Acq: 17 Jul 2019 21:10

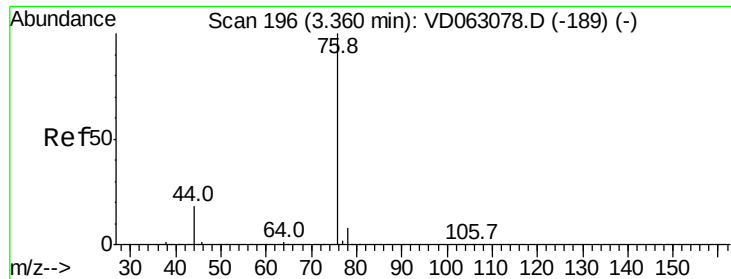
Tgt Ion: 43 Resp: 445945

Ion Ratio Lower Upper

43 100

58 15.6 13.0 19.4





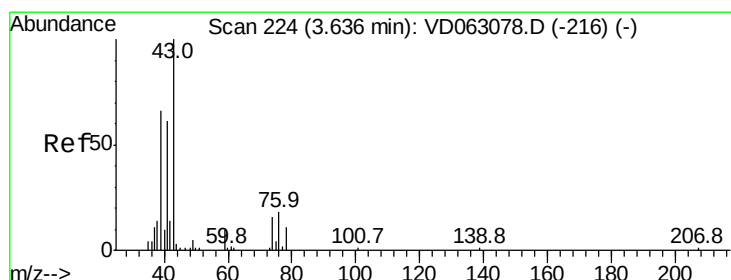
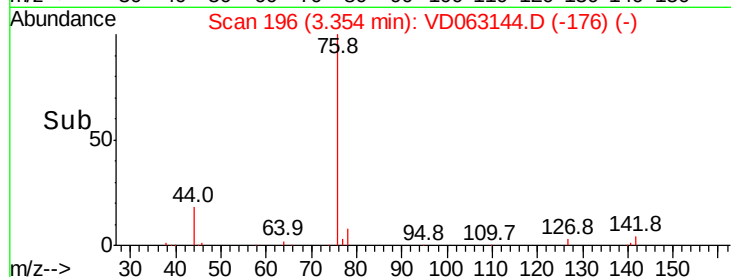
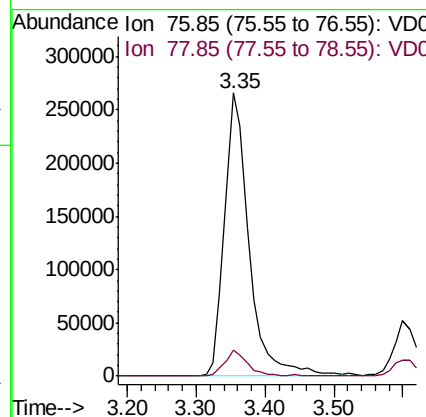
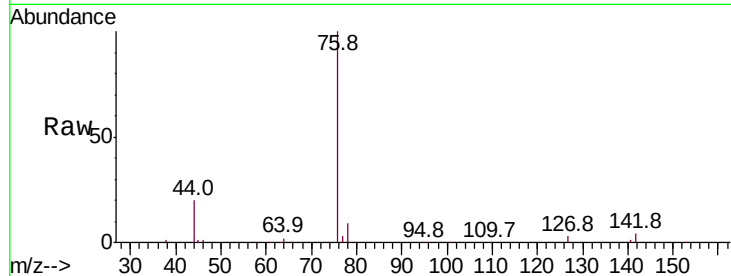
#17
Carbon Disulfide
Concen: 44.907 ug/l
RT: 3.35 min Scan# 196
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 658000
Ion Ratio Lower Upper
76 100
78 9.1 6.7 10.1

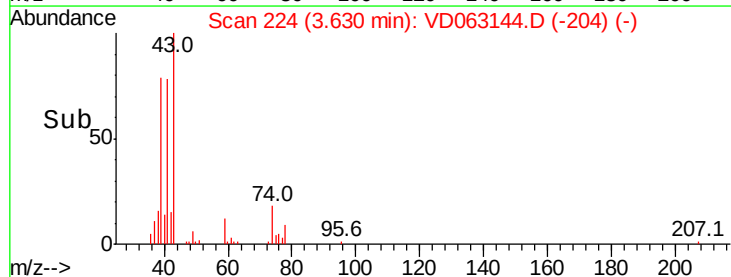
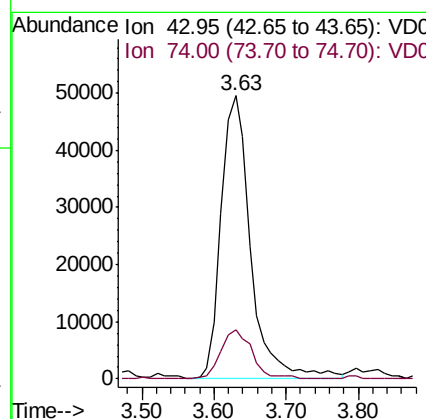
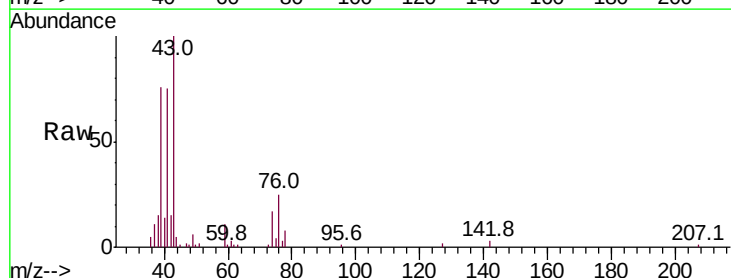
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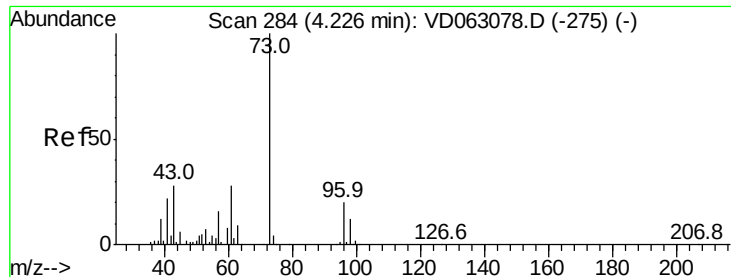
MMDadoda
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#18
Methyl Acetate
Concen: 60.612 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion: 43 Resp: 141132
Ion Ratio Lower Upper
43 100
74 17.4 12.5 18.7





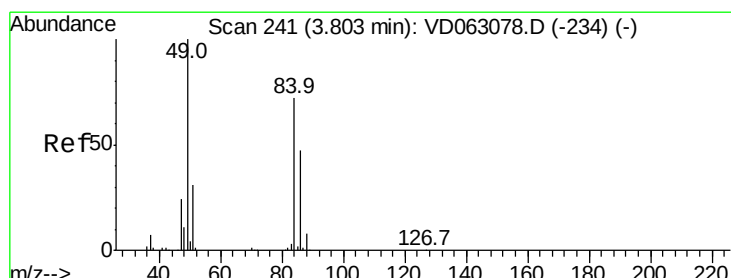
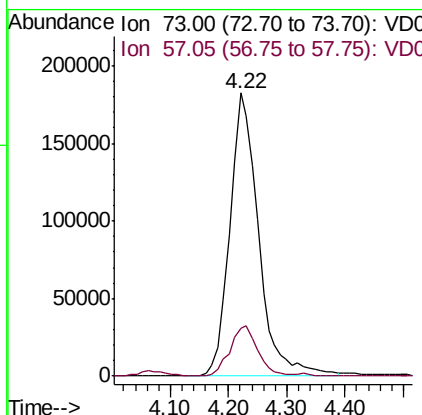
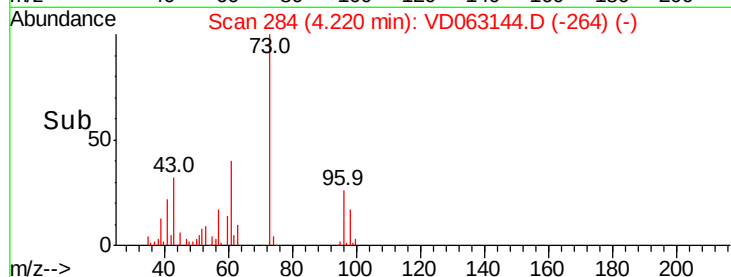
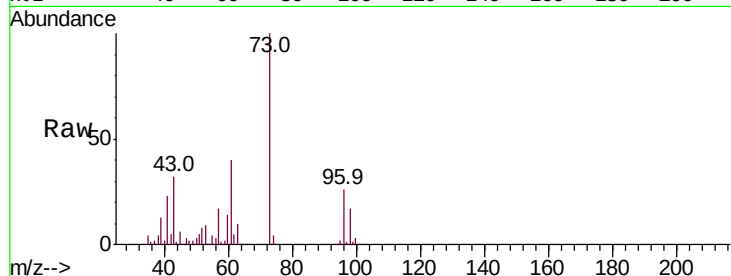
#19
Methyl tert-butyl Ether
Concen: 48.565 ug/l
RT: 4.22 min Scan# 284
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 627568
Ion Ratio Lower Upper
73 100
57 16.9 13.1 19.7

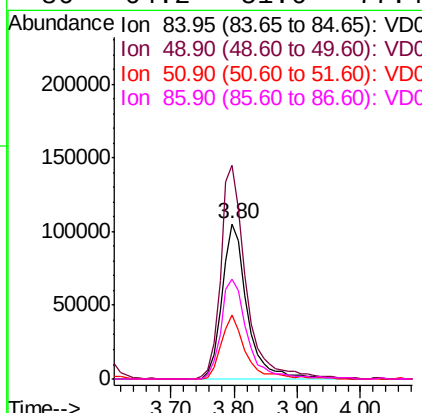
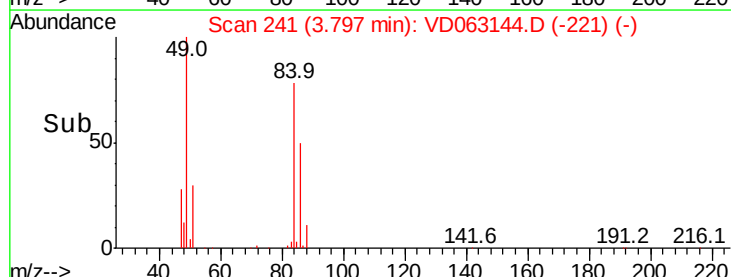
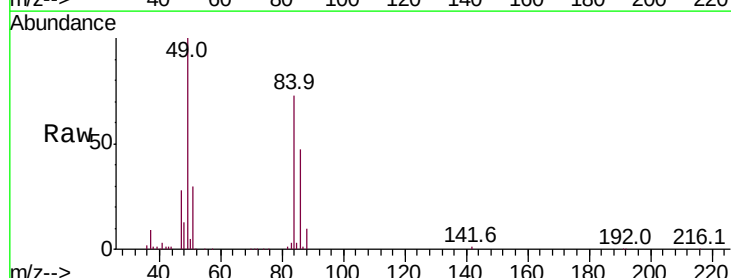
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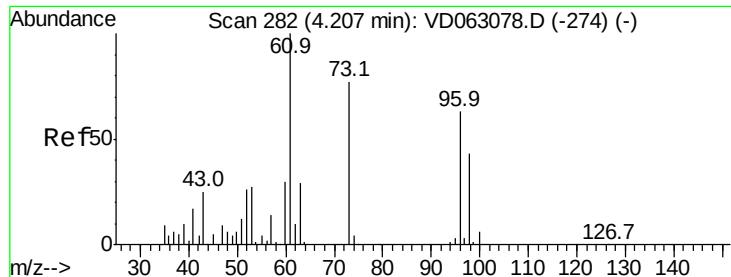
MMDadoda
7/18/2019 10:01:35 AM



#20
Methylene Chloride
Concen: 44.406 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion: 84 Resp: 292072
Ion Ratio Lower Upper
84 100
49 137.6 110.5 165.7
51 41.5 34.6 51.8
86 64.2 51.6 77.4





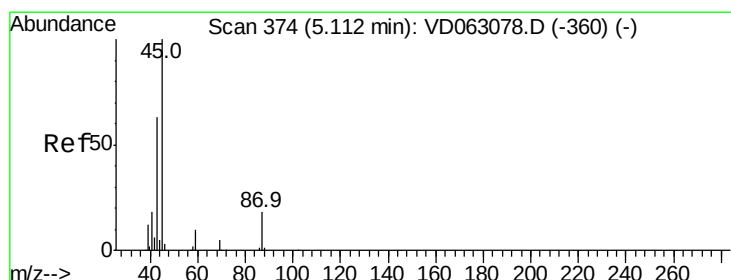
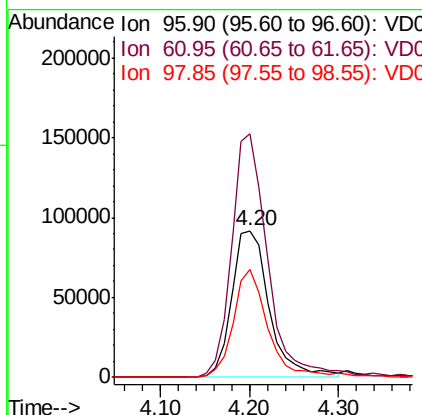
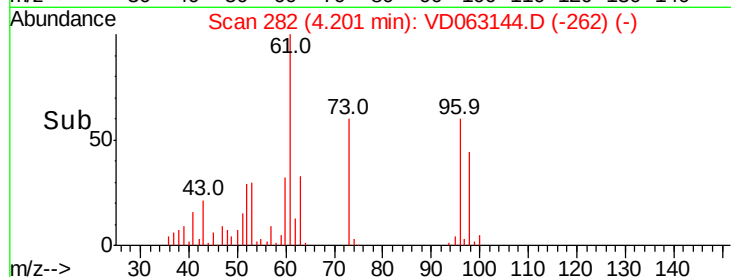
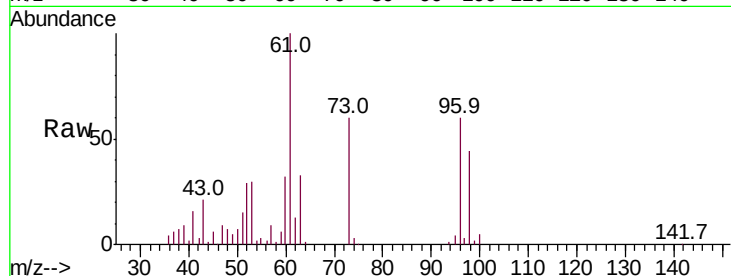
#21
trans-1,2-Dichloroethene
Concen: 47.413 ug/l
RT: 4.20 min Scan# 282
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	166.0	128.0	192.0
98	73.5	55.2	82.8

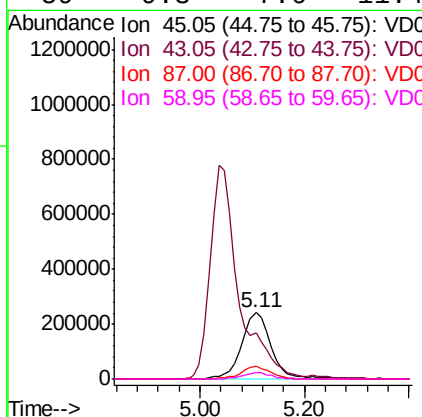
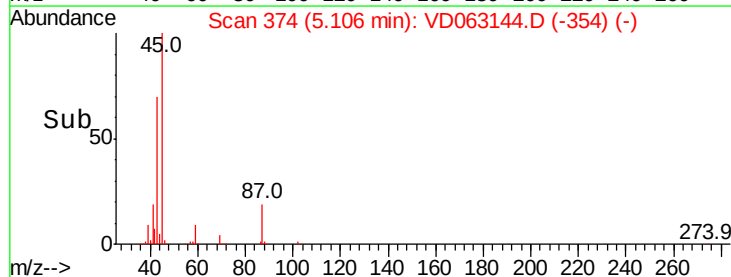
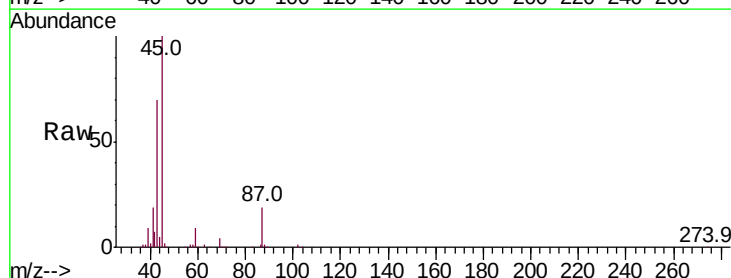
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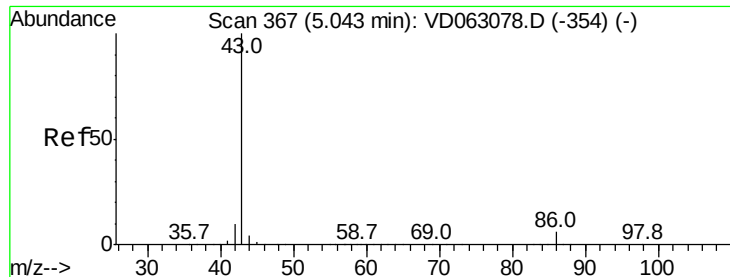
MMDadoda
7/18/2019 10:01:35 AM



#22
Diisopropyl ether
Concen: 52.248 ug/l
RT: 5.11 min Scan# 374
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	70.1	50.5	75.7
87	19.0	15.1	22.7
59	9.3	7.6	11.4





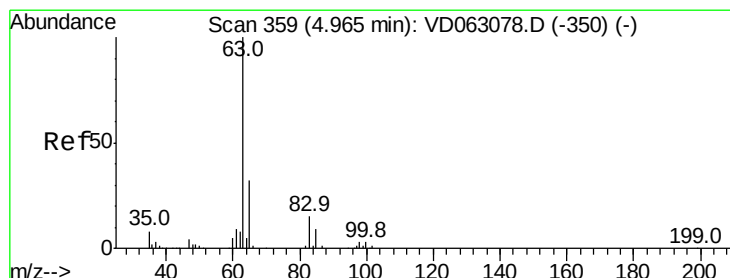
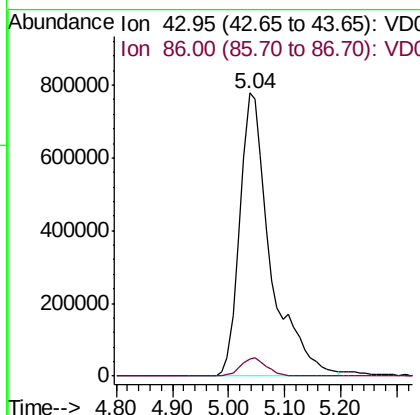
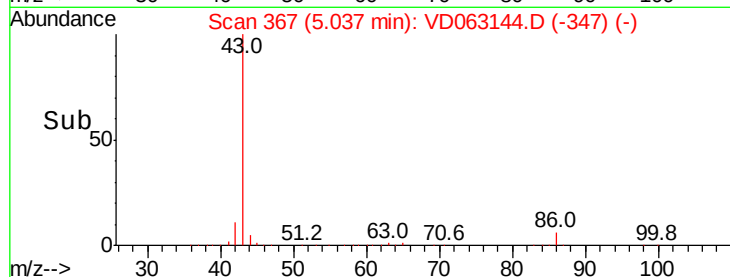
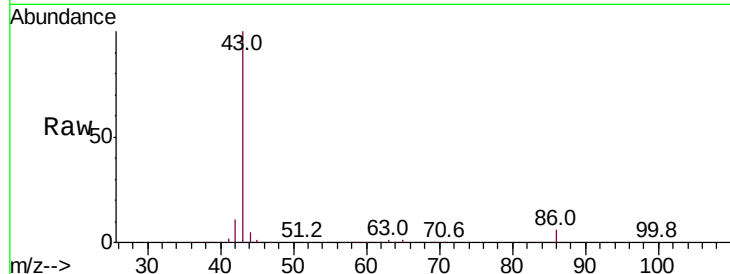
#23
Vinyl Acetate
Concen: 289.564 ug/l
RT: 5.04 min Scan# 367
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2955037
Ion Ratio Lower Upper
43 100
86 5.9 5.0 7.6

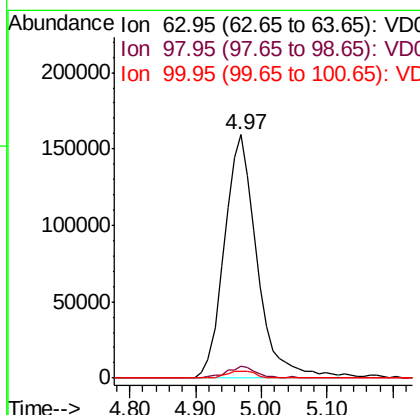
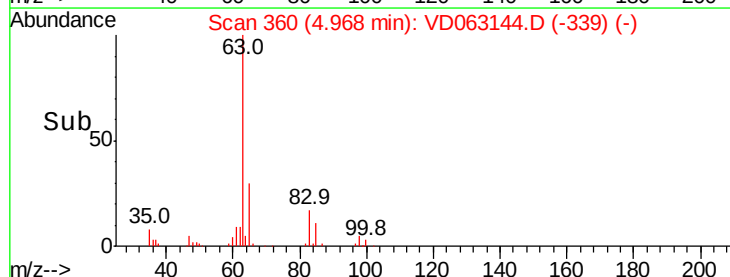
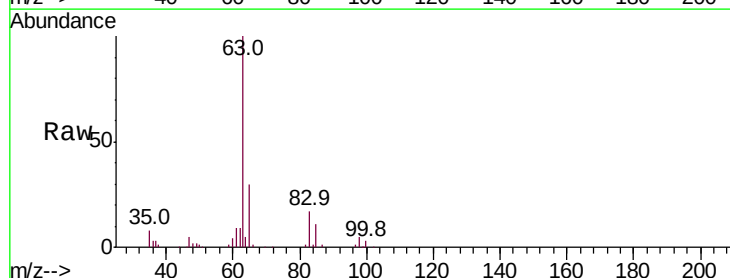
Manual Integrations
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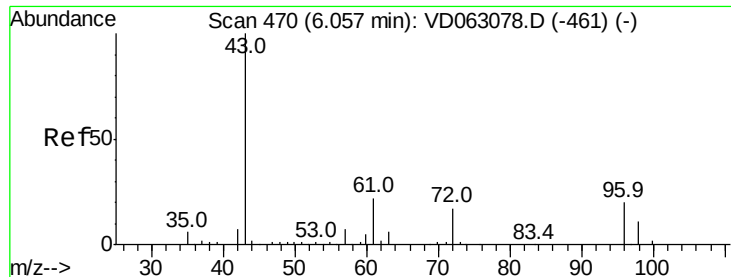
MMDadoda
7/18/2019 10:01:35 AM



#24
1,1-Dichloroethane
Concen: 51.330 ug/l
RT: 4.97 min Scan# 360
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion: 63 Resp: 553071
Ion Ratio Lower Upper
63 100
98 5.2 1.7 5.1#
100 2.8 1.5 4.5





#25

2-Butanone

Concen: 277.020 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 460541

Ion Ratio Lower Upper

43 100

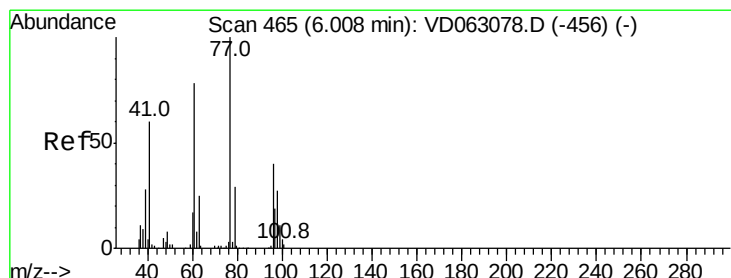
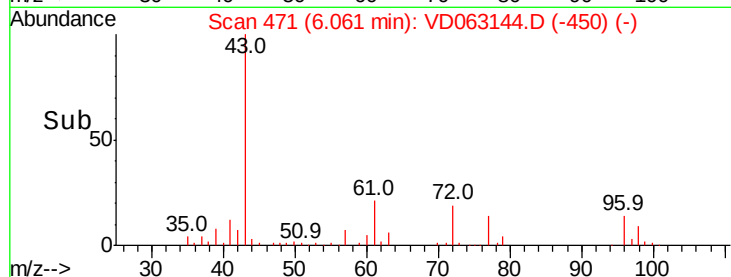
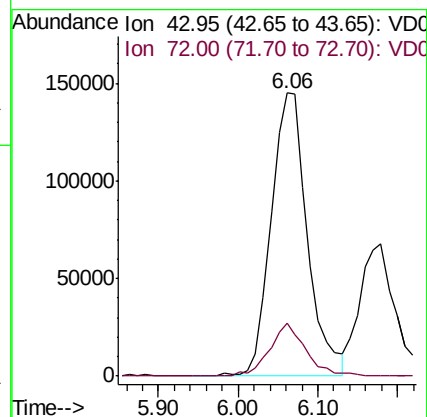
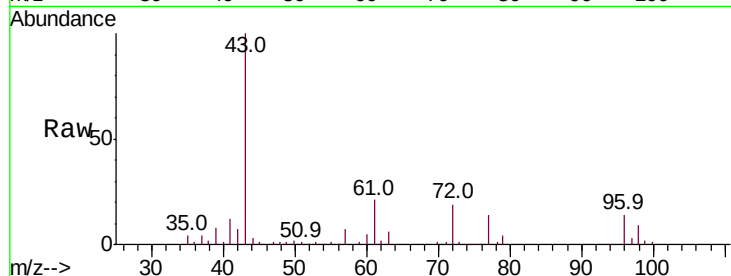
72 18.9 13.4 20.0

Manual Integrations

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7/18/2019 10:01:35 AM



#26

2,2-Dichloropropane

Concen: 49.638 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.00 min

Lab File: VD063144.D

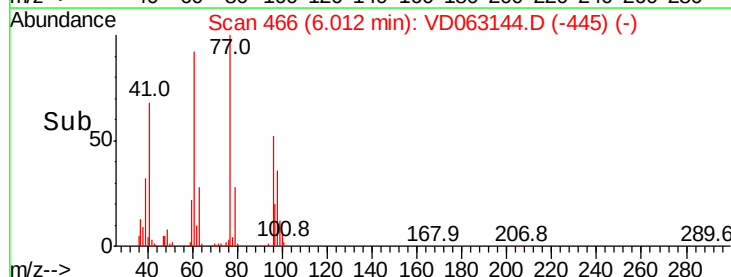
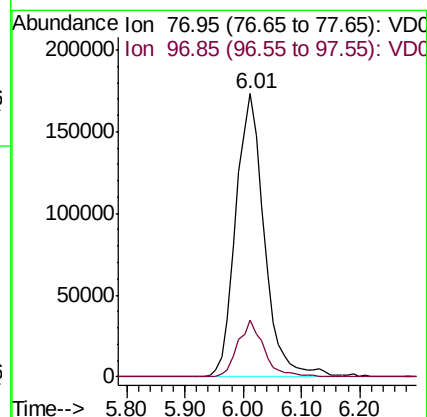
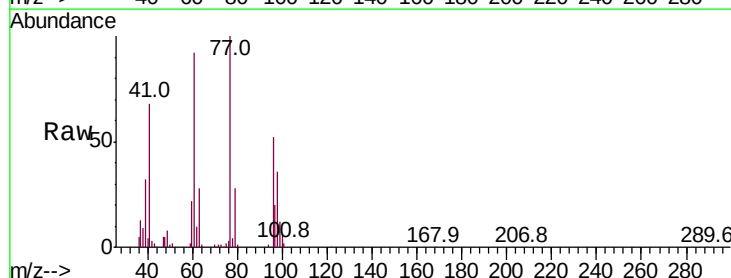
Acq: 17 Jul 2019 21:10

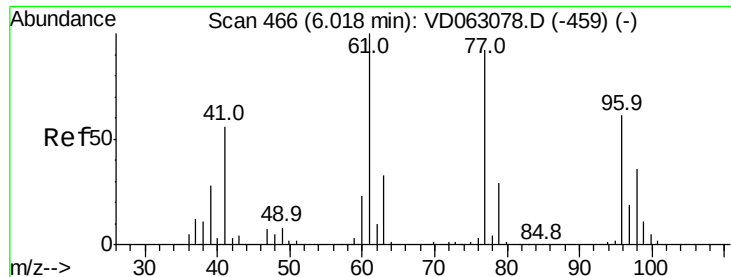
Tgt Ion: 77 Resp: 591922

Ion Ratio Lower Upper

77 100

97 20.2 9.3 27.9





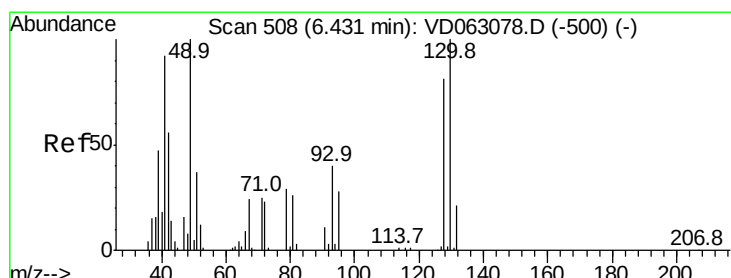
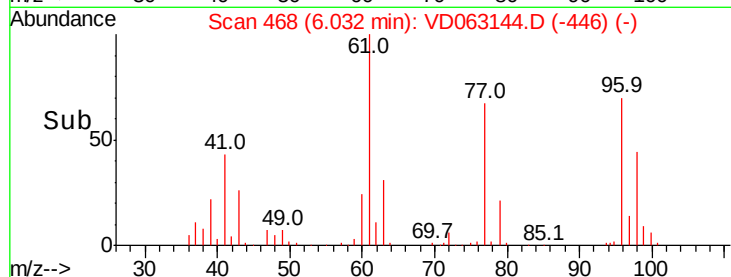
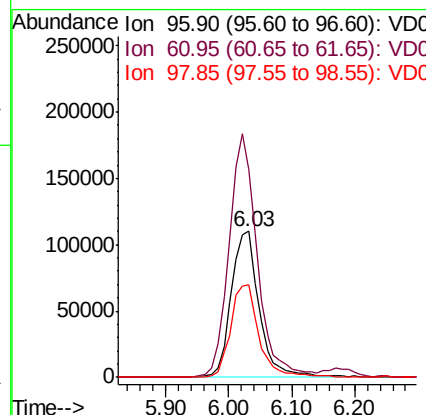
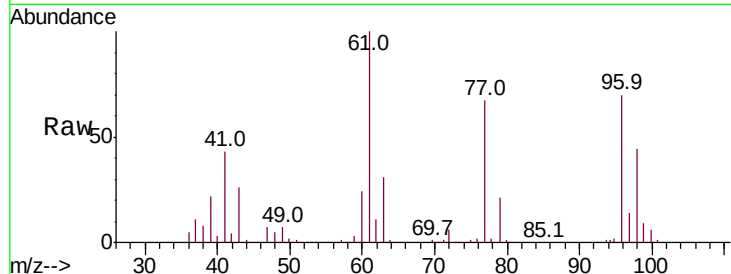
#27
 cis-1,2-Dichloroethene
 Concen: 52.265 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. 0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	337860		
61	142.5	0.0	329.6	
98	63.4	0.0	118.4	

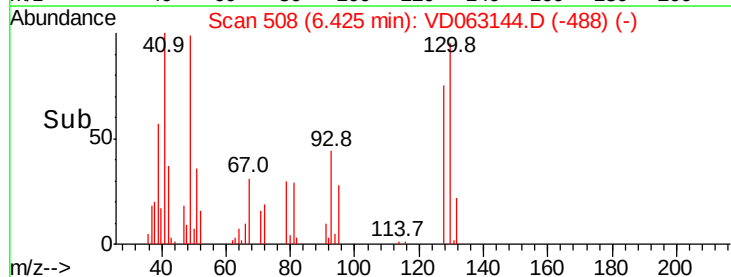
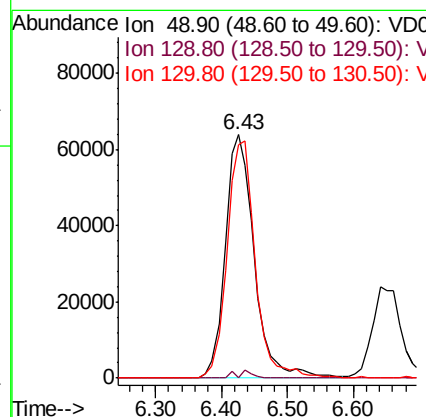
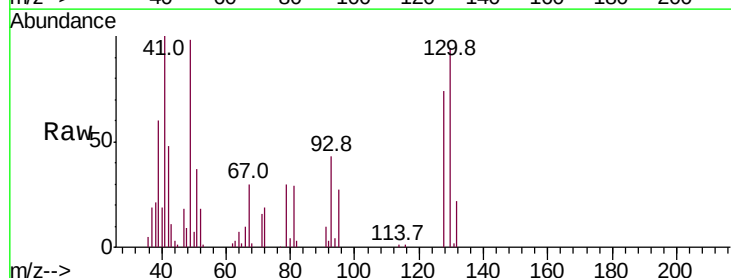
Manual Integrations
 APPROVED

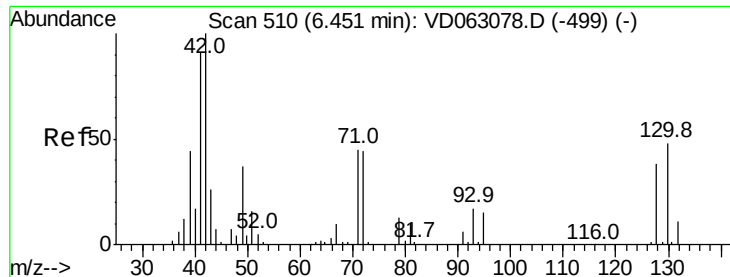
MMDadoda
 7/18/2019 10:01:35 AM



#28
 Bromochloromethane
 Concen: 50.006 ug/l
 RT: 6.43 min Scan# 508
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	195475		
129	0.0	0.0	3.6	
130	95.8	80.3	120.5	





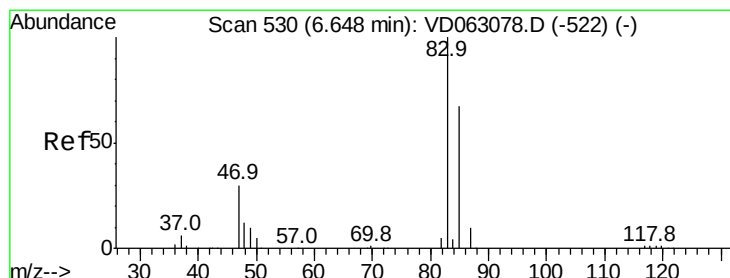
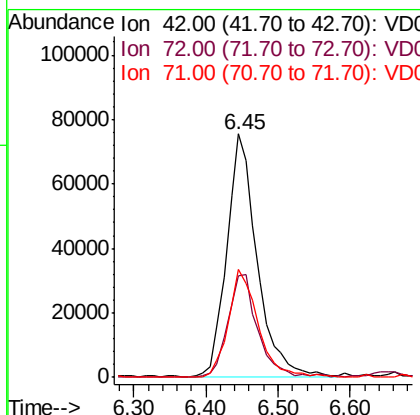
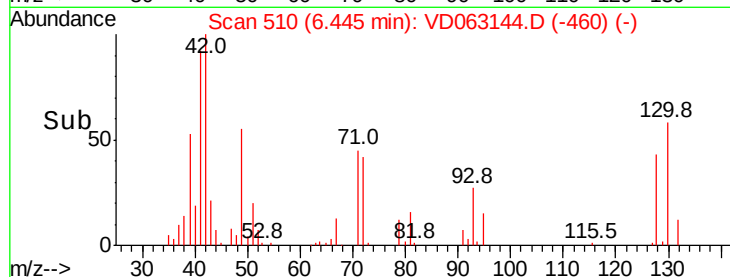
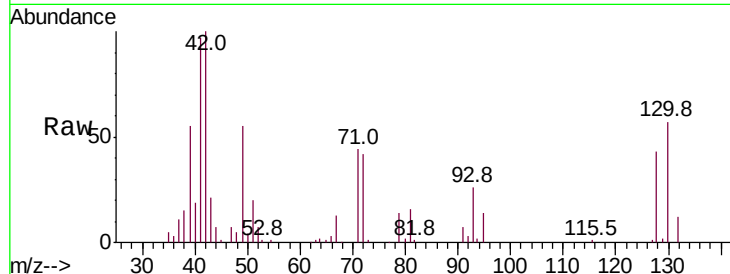
#29
Tetrahydrofuran
Concen: 294.834 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.7	50.5
71	43.3	34.2	51.2

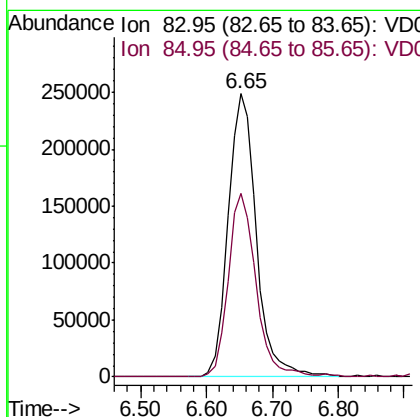
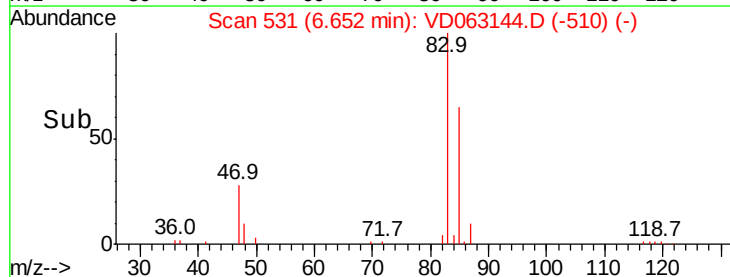
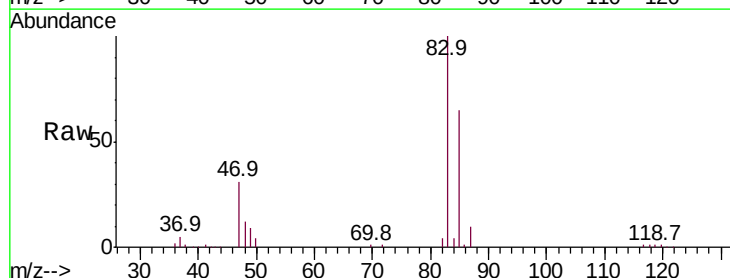
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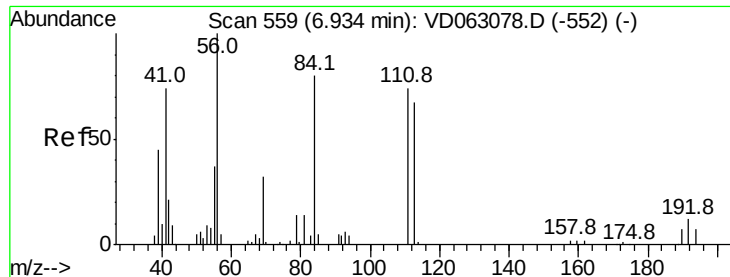
MMDadoda
7/18/2019 10:01:35 AM



#30
Chloroform
Concen: 56.219 ug/l
RT: 6.65 min Scan# 531
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	53.8	80.8





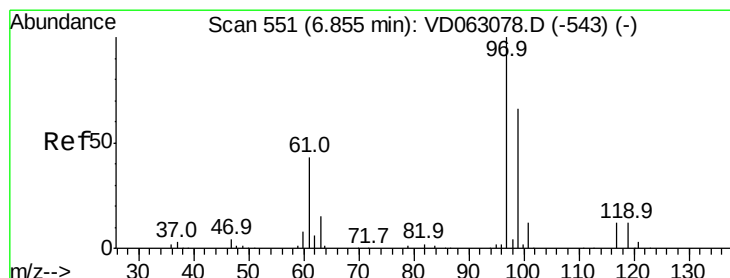
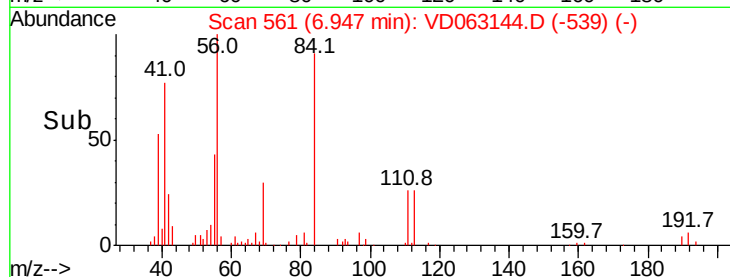
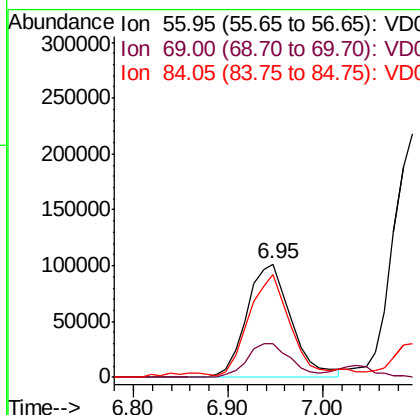
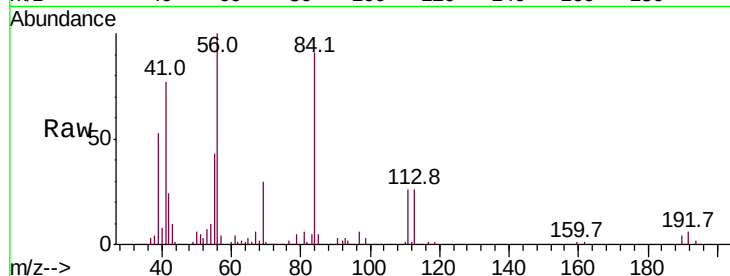
#31
Cyclohexane
Concen: 48.455 ug/l
RT: 6.95 min Scan# 561
Delta R.T. 0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.9	25.3	37.9
84	91.0	64.2	96.4

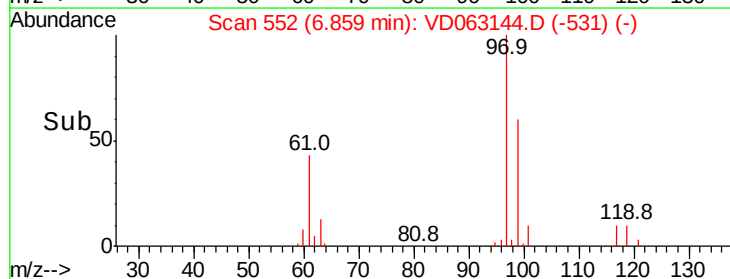
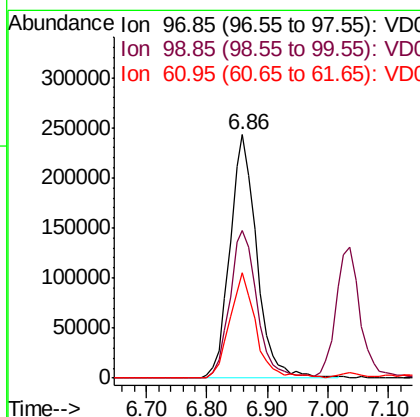
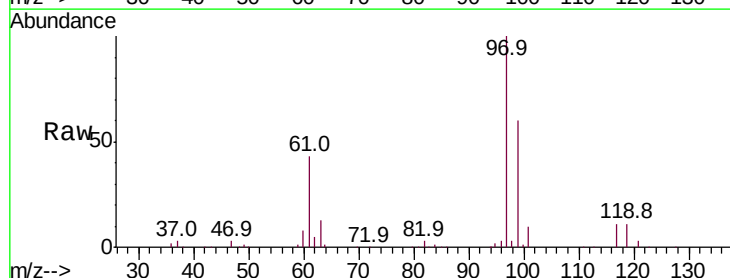
Manual Integrations
APPROVED

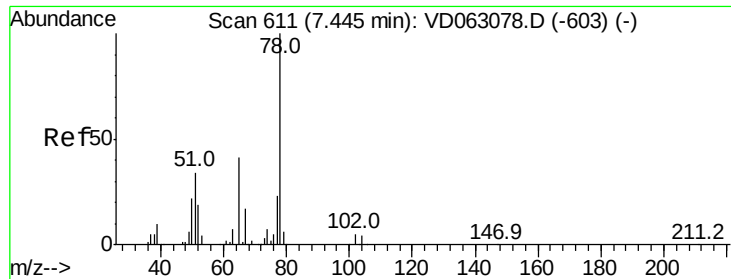
MMDadoda
7/18/2019 10:01:35 AM



#32
1,1,1-Trichloroethane
Concen: 57.037 ug/l
RT: 6.86 min Scan# 552
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.4	52.9	79.3
61	43.3	34.4	51.6





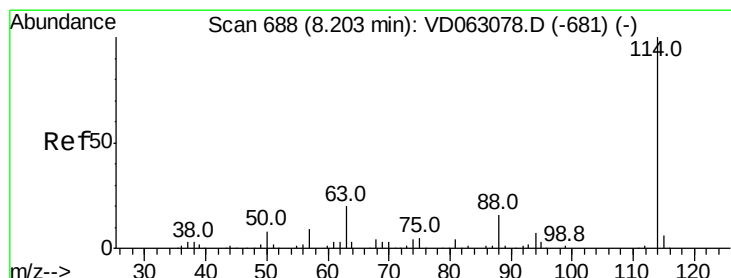
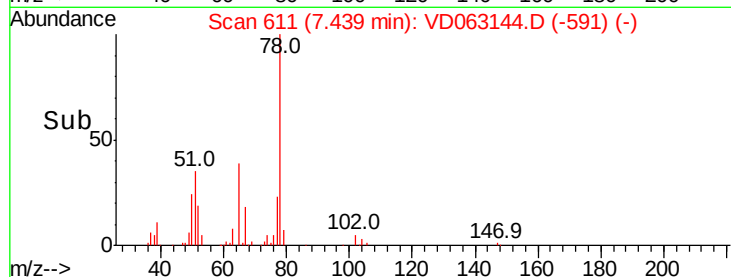
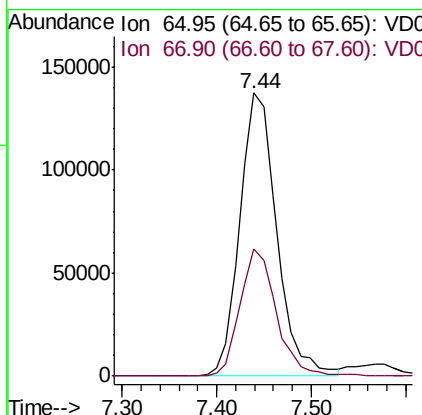
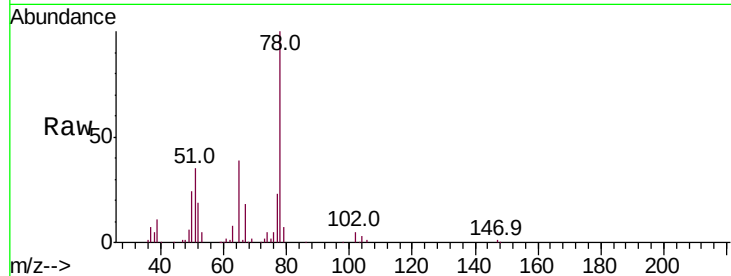
#33
 1,2-Dichloroethane-d4
 Concen: 51.775 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	44.9	0.0	86.0

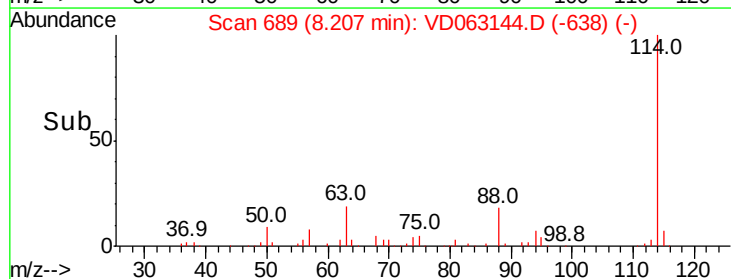
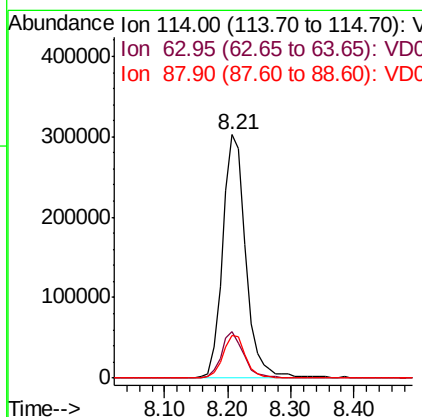
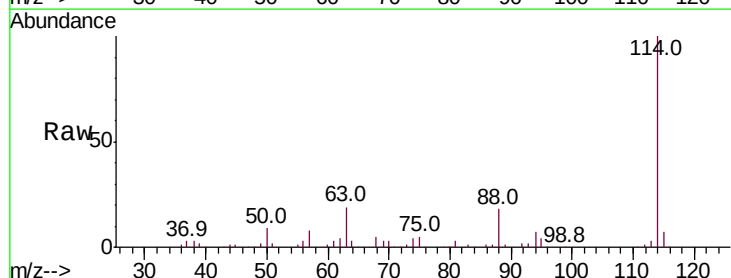
Manual Integrations
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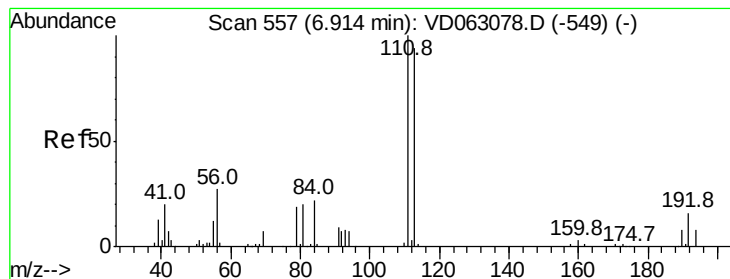
MMDadoda
 7/18/2019 10:01:35 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	40.6
88	17.6	0.0	32.6





#35

Dibromofluoromethane

Concen: 50.893 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

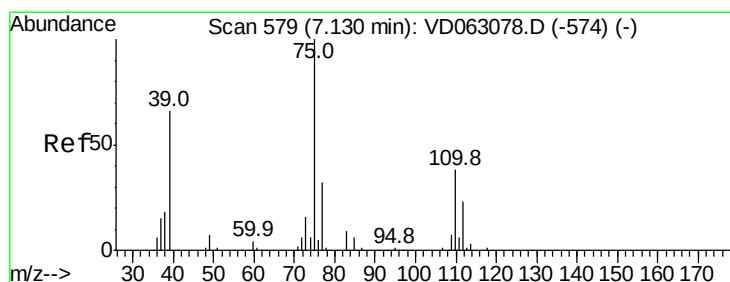
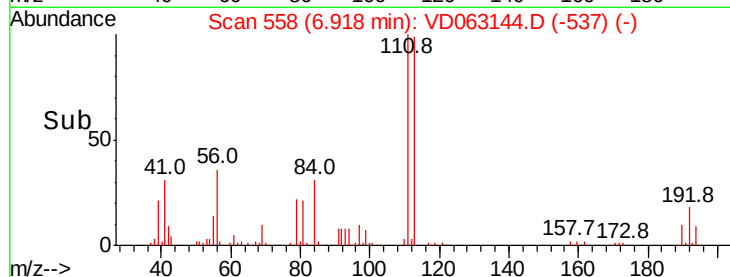
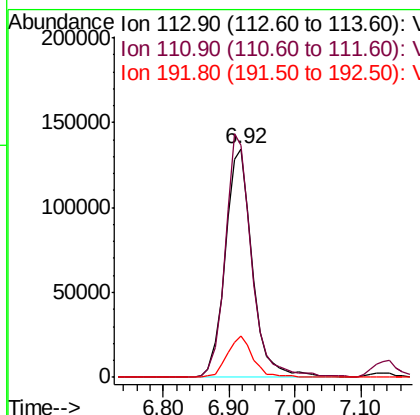
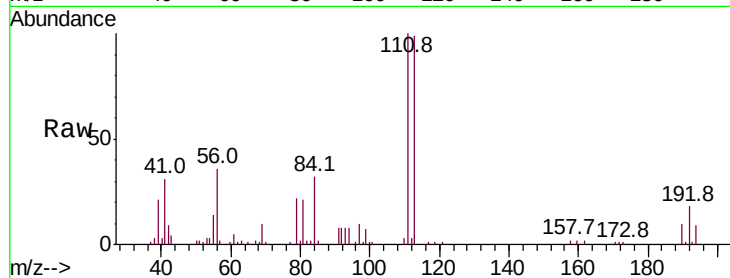
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	389459
Ion Ratio	Lower	Upper	
113	100		
111	101.4	84.8	127.2
192	18.3	13.4	20.0

Manual Integrations
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MMDadoda
7/18/2019 10:01:35 AM



#36

1,1-Dichloropropene

Concen: 53.497 ug/l

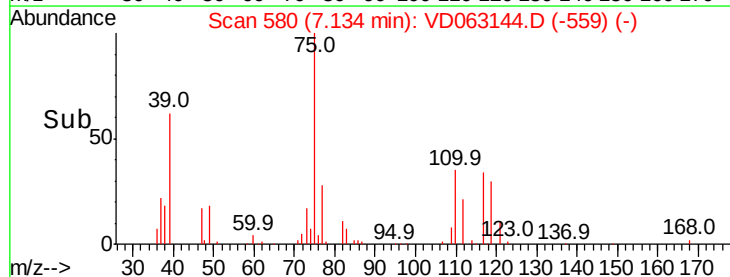
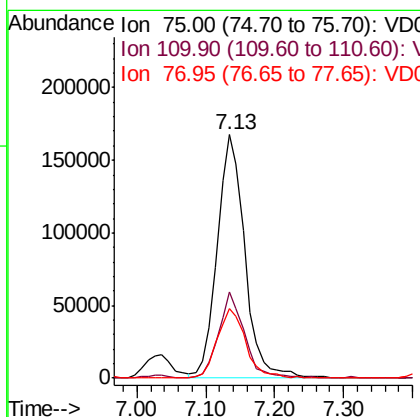
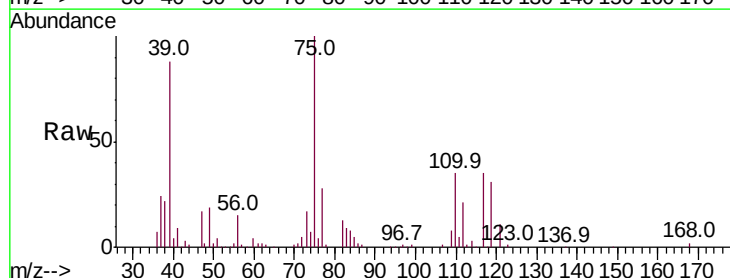
RT: 7.13 min Scan# 580

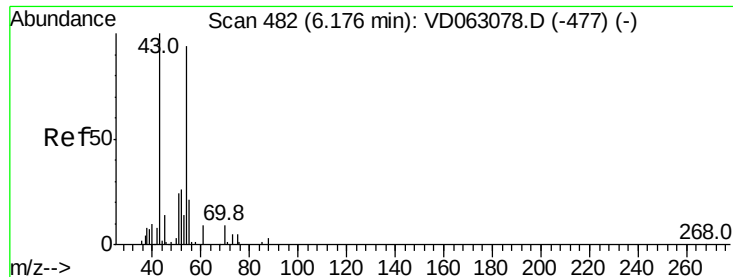
Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Tgt Ion:	75	Resp:	462274
Ion Ratio	Lower	Upper	
75	100		
110	35.2	18.9	56.5
77	28.4	25.2	37.8





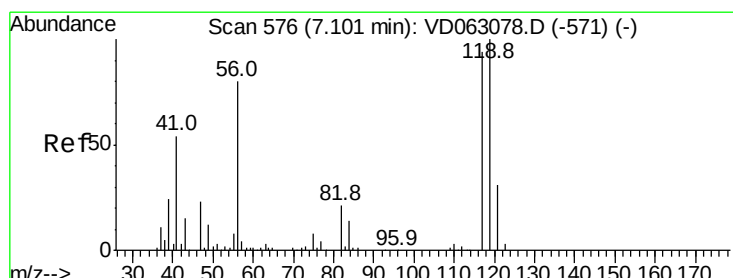
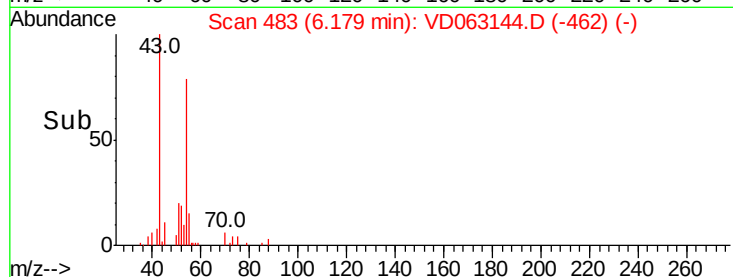
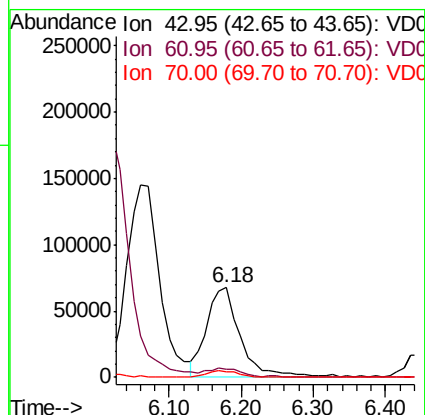
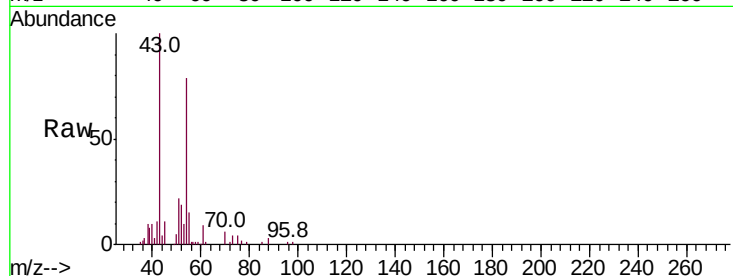
#37
Ethyl Acetate
Concen: 57.019 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	8.9	10.6	16.0#
70	5.7	6.6	9.8#

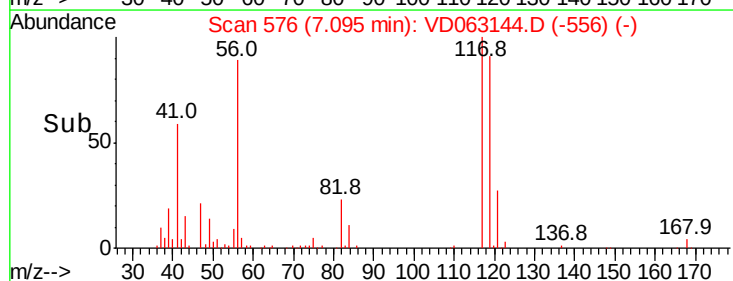
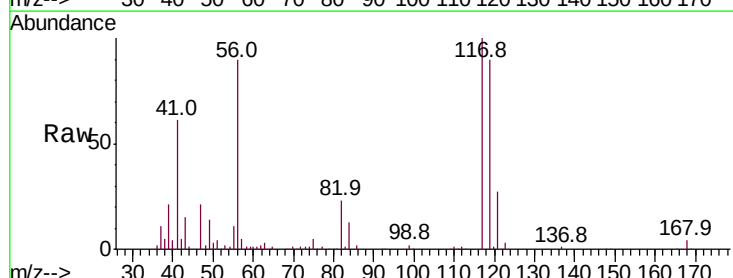
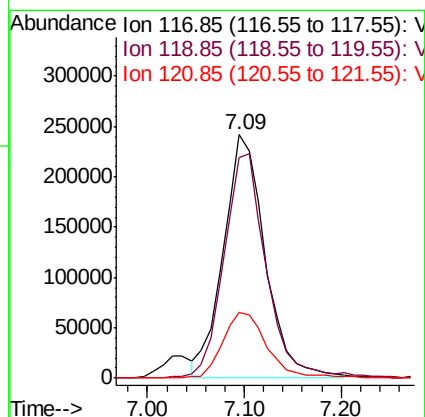
Manual Integrations
APPROVED

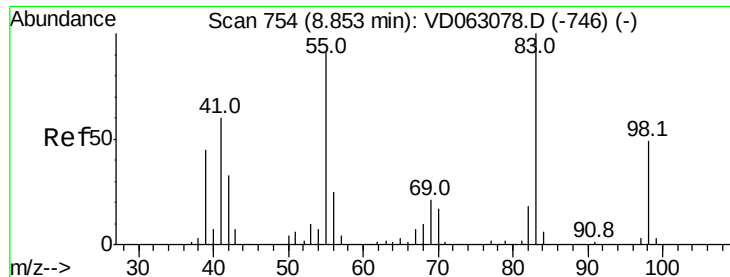
MMDadoda
7/18/2019 10:01:35 AM



#38
Carbon Tetrachloride
Concen: 55.453 ug/l m
RT: 7.09 min Scan# 576
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.4	80.0	120.0
121	26.9	25.0	37.4





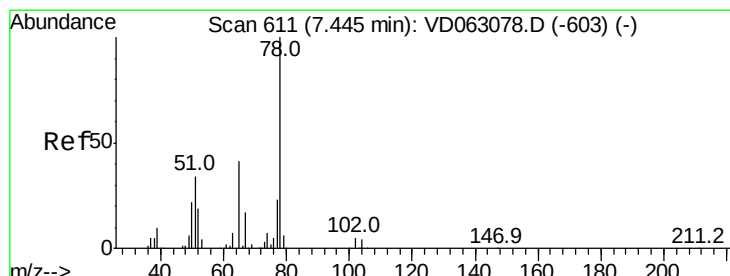
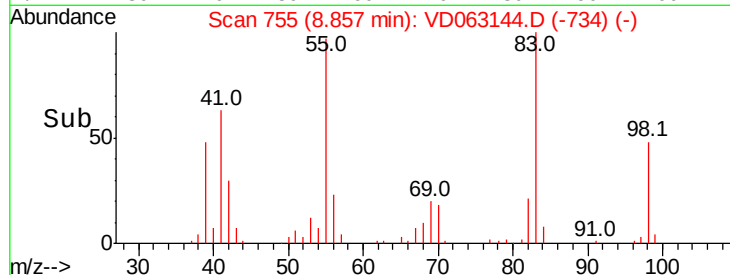
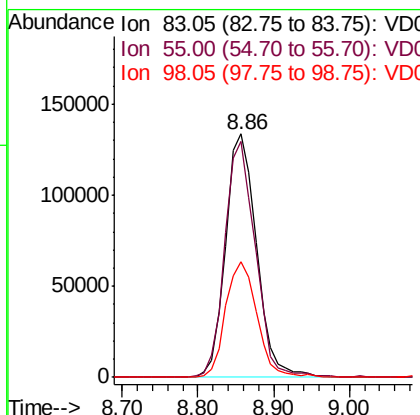
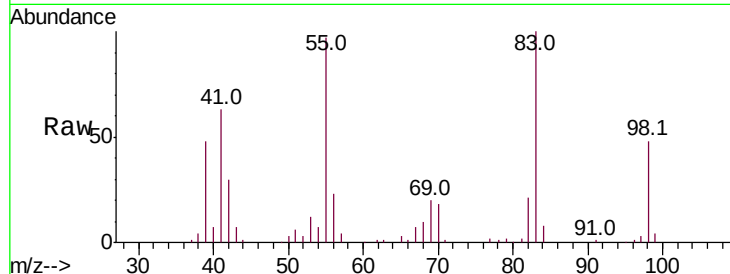
#39
Methylvlcyclohexane
Concen: 50.603 ug/l
RT: 8.86 min Scan# 755
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	96.8	73.0	109.4
98	47.5	39.4	59.0

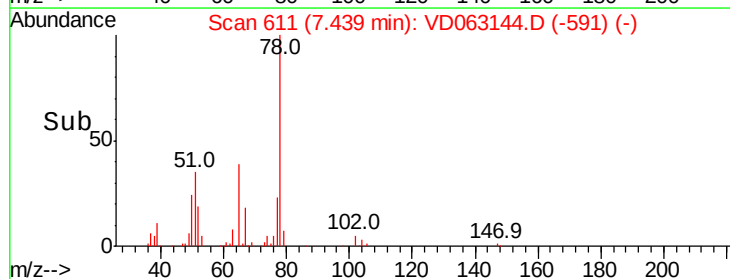
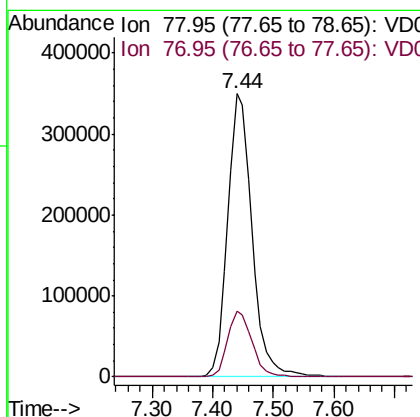
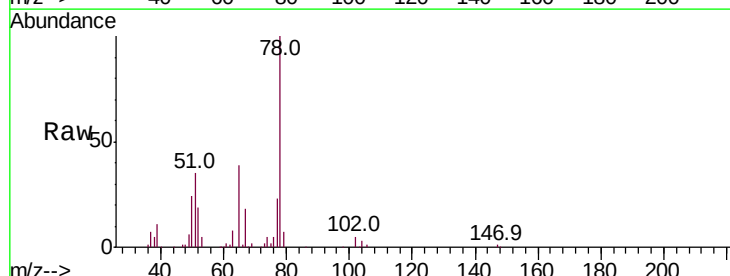
Manual Integrations
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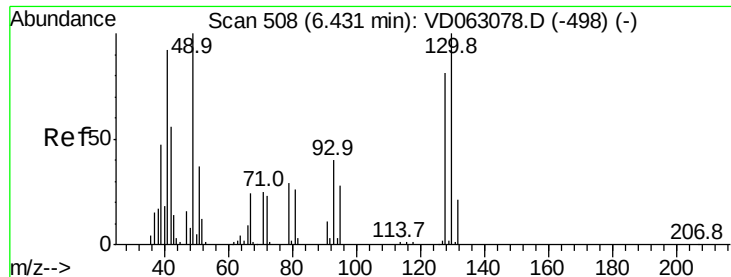
MMDadoda
7/18/2019 10:01:35 AM



#40
Benzene
Concen: 54.081 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.1	27.1





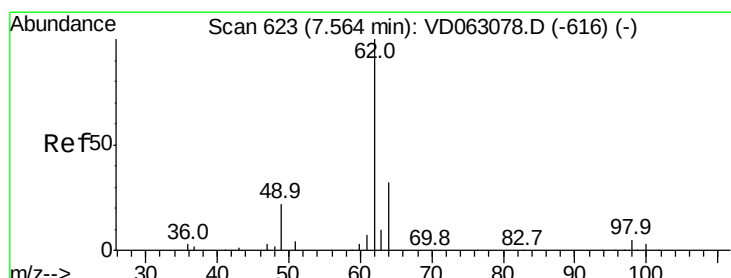
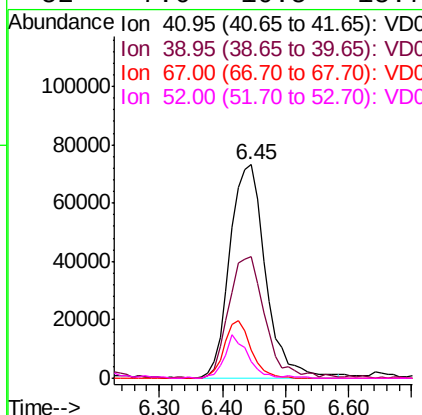
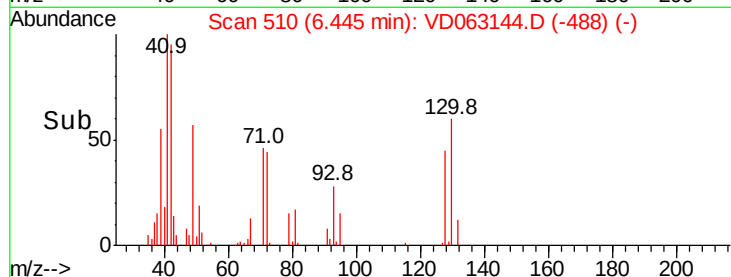
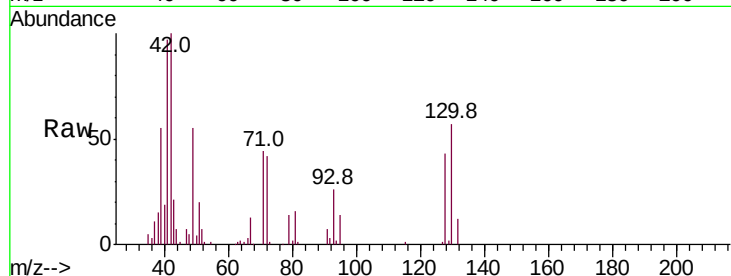
#41
Methacrylonitrile
Concen: 57.461 ug/l
RT: 6.45 min Scan# 510
Delta R.T. 0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.1	41.0	61.6
67	12.9	21.3	31.9#
52	7.6	10.5	15.7#

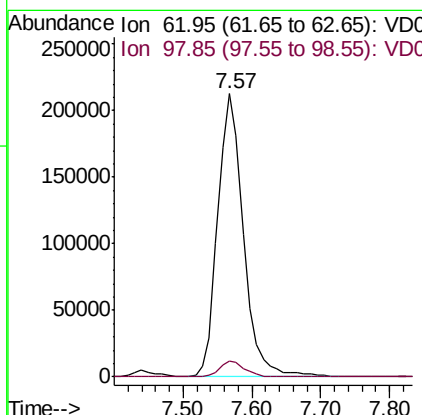
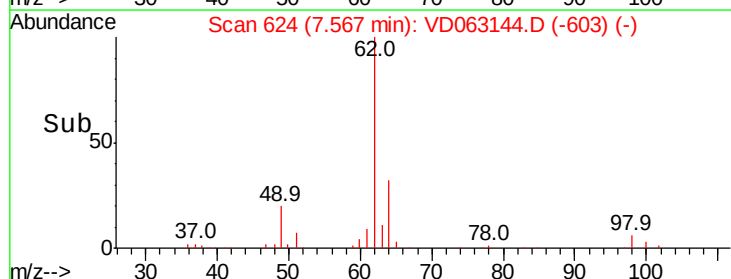
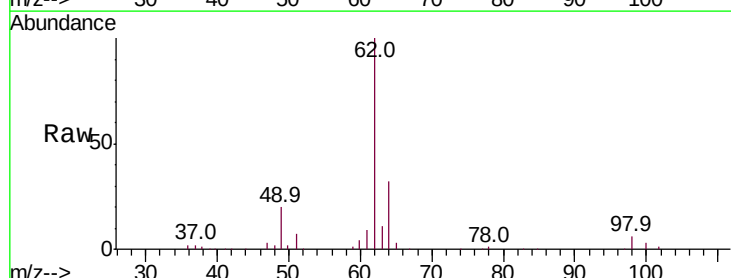
Manual Integrations
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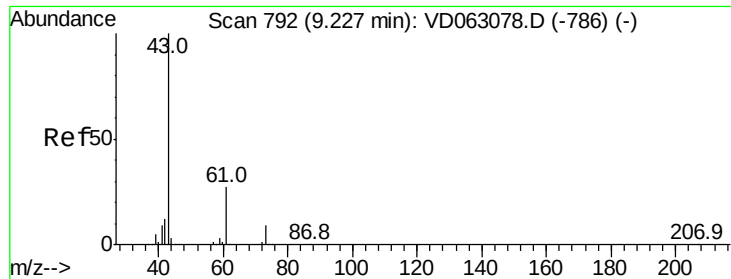
MMDadoda
7/18/2019 10:01:35 AM



#42
1,2-Dichloroethane
Concen: 57.273 ug/l
RT: 7.57 min Scan# 624
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	9.6





#43

Isopropyl Acetate

Concen: 56.146 ug/l

RT: 9.23 min Scan# 793

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

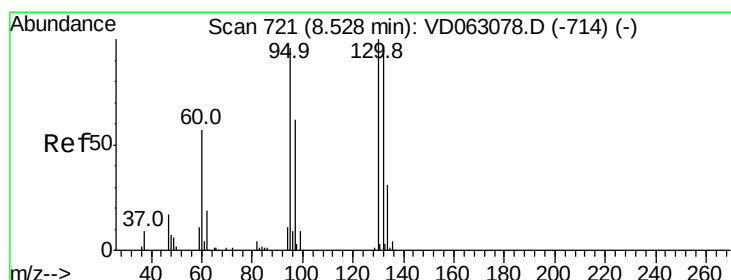
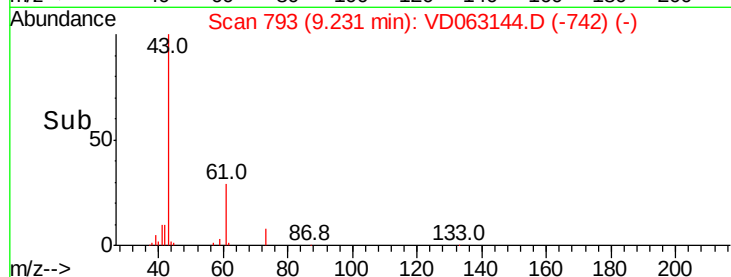
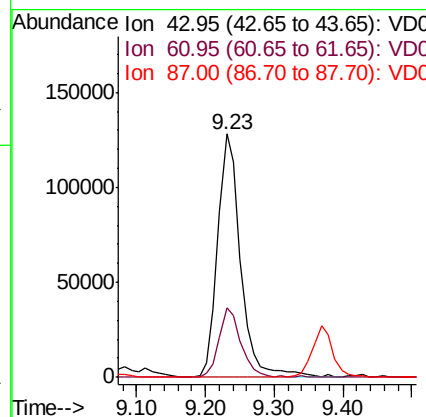
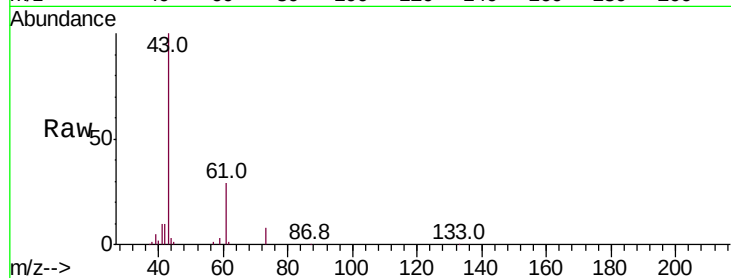
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	297617
Ion Ratio	Lower	Upper	
43	100		
61	28.7	21.7	32.5
87	0.3	0.2	0.4

Manual Integrations
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#44

Trichloroethene

Concen: 53.899 ug/l

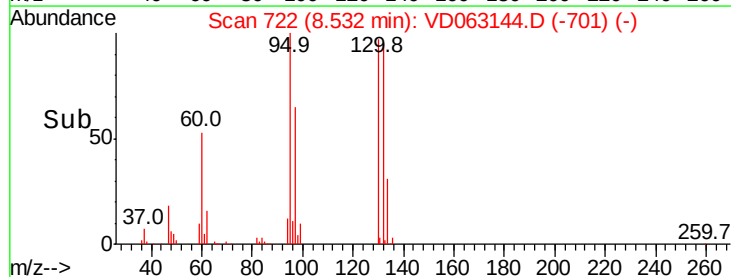
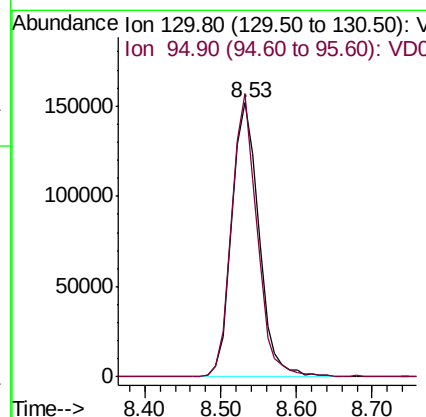
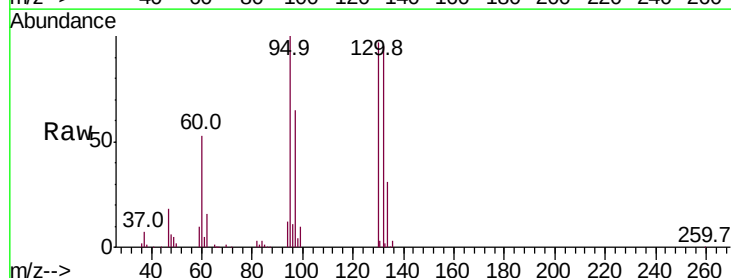
RT: 8.53 min Scan# 722

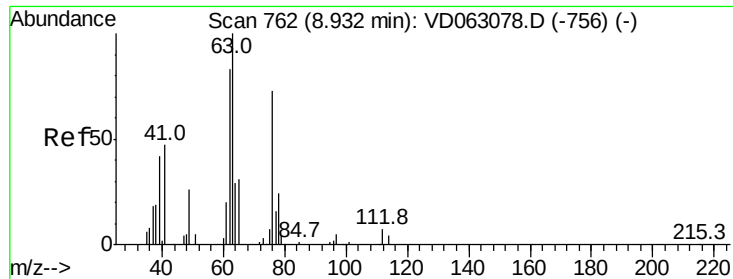
Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Tgt Ion:	130	Resp:	376982
Ion Ratio	Lower	Upper	
130	100		
95	103.2	0.0	191.4





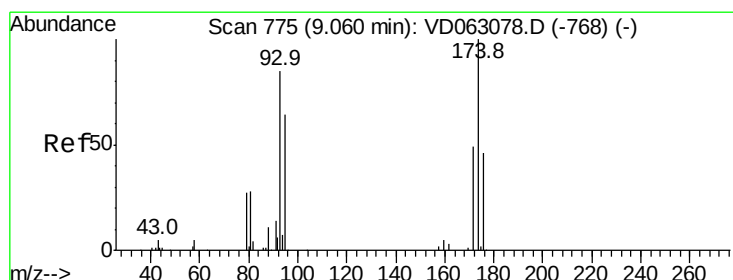
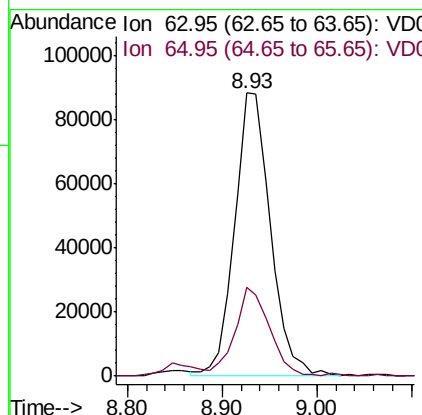
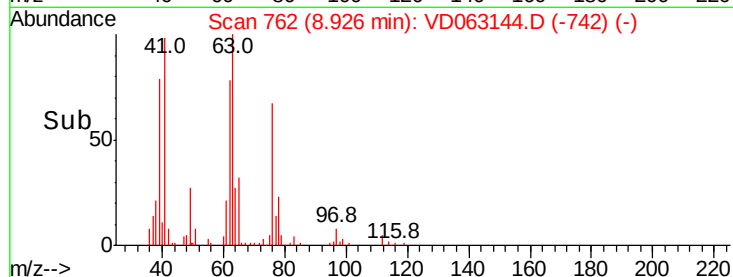
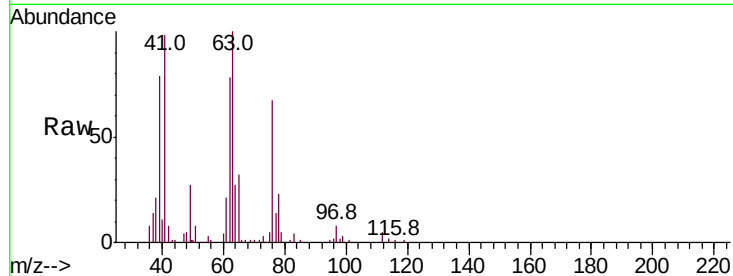
#45
 1,2-Dichloropropane
 Concen: 51.505 ug/l
 RT: 8.93 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	26.3	39.5

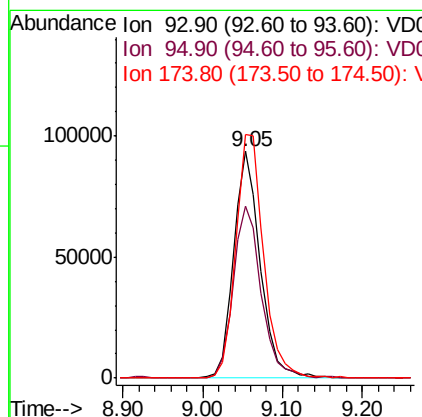
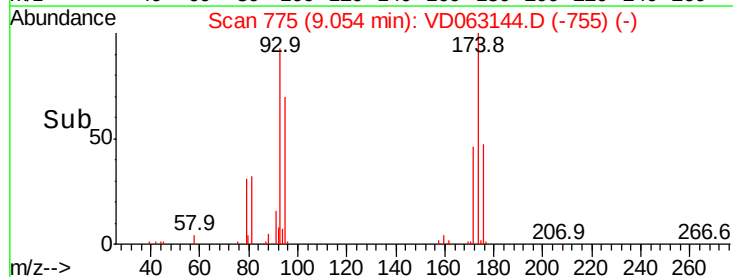
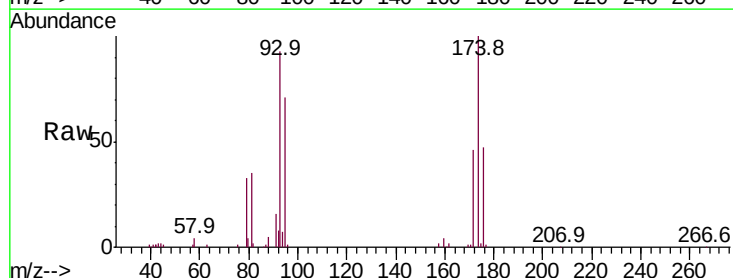
Manual Integrations
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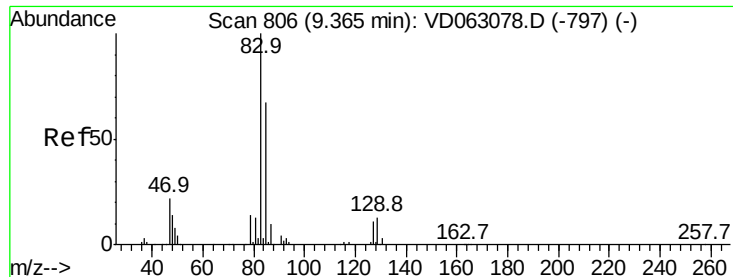
MMDadoda
 7/18/2019 10:01:35 AM



#46
 Dibromomethane
 Concen: 56.231 ug/l
 RT: 9.05 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
93	100		
95	76.0	59.7	89.5
174	107.4	93.9	140.9





#47

Bromodichloromethane

Concen: 55.329 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

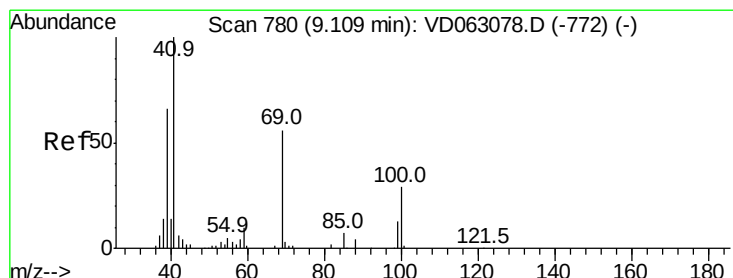
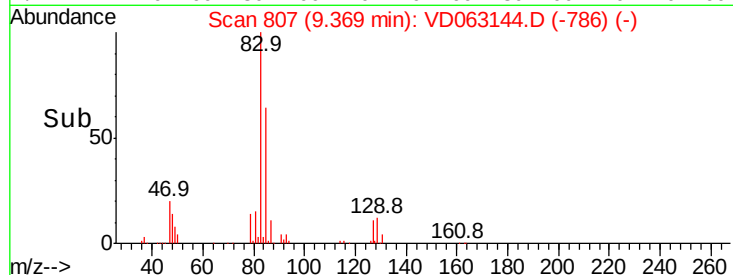
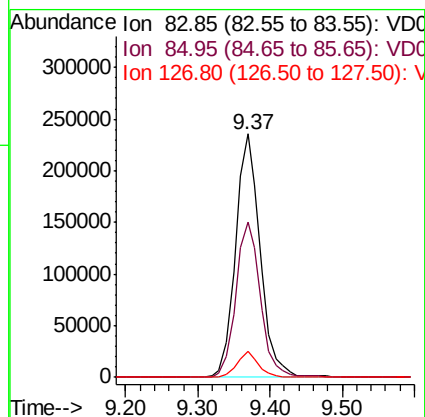
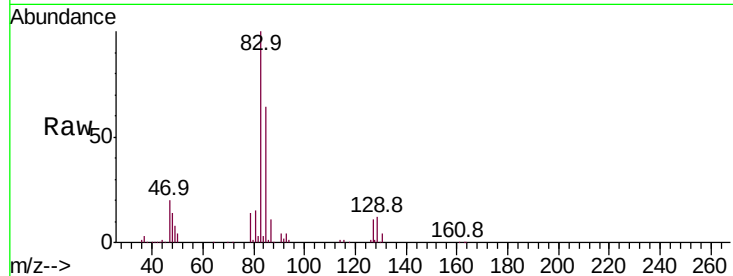
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	559830
Ion Ratio	Lower	Upper	
83	100		
85	64.1	53.7	80.5
127	10.8	9.0	13.6

Manual Integrations
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7/18/2019 10:01:35 AM



#48

Methyl methacrylate

Concen: 57.913 ug/l

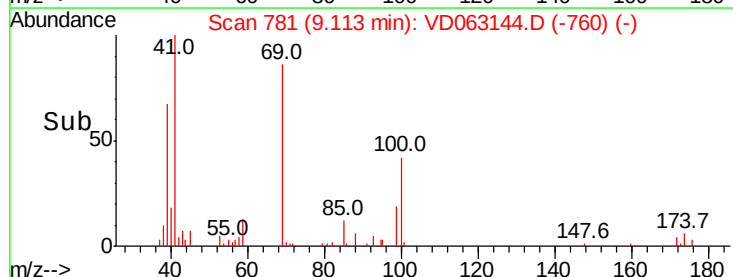
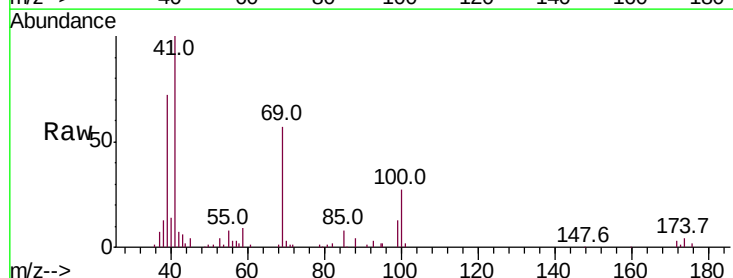
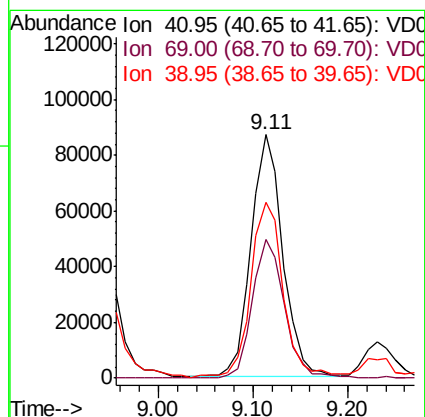
RT: 9.11 min Scan# 781

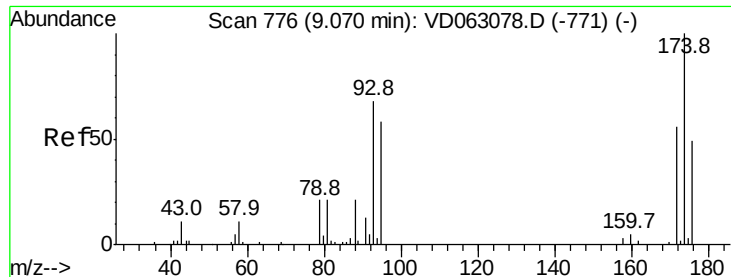
Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Tgt Ion:	41	Resp:	201595
Ion Ratio	Lower	Upper	
41	100		
69	56.7	44.3	66.5
39	72.4	52.6	78.8





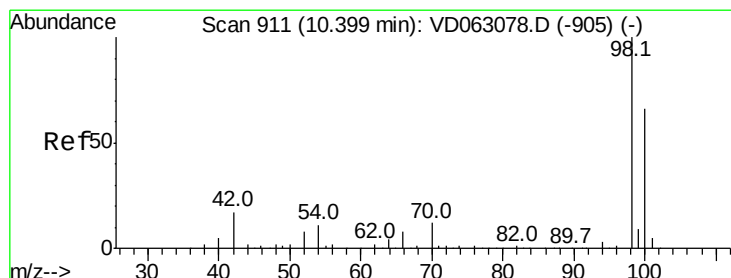
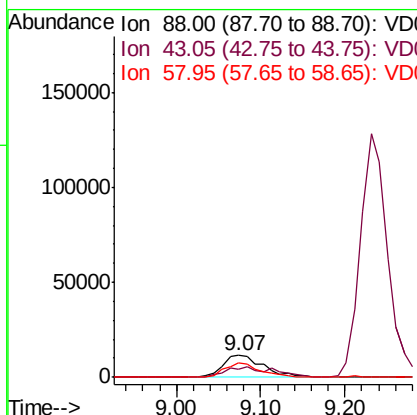
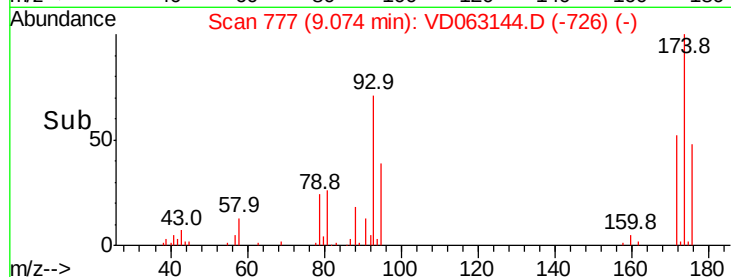
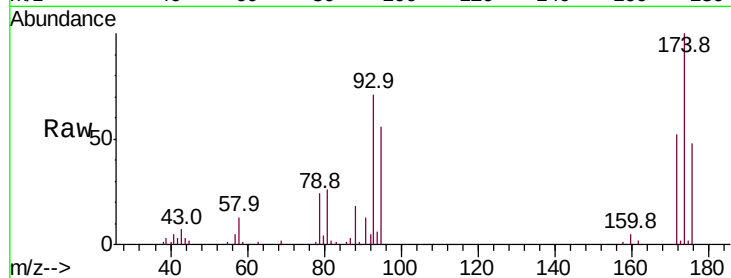
#49
 1,4-Dioxane
 Concen: 1278.783 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	38.5	40.2	60.4#	
58	68.8	41.6	62.4#	

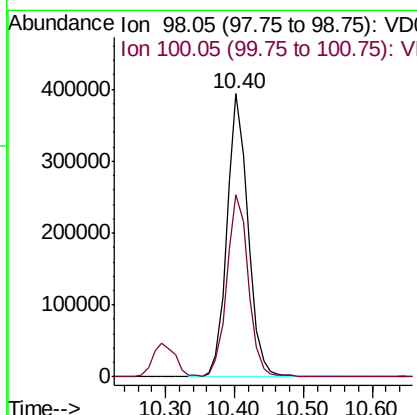
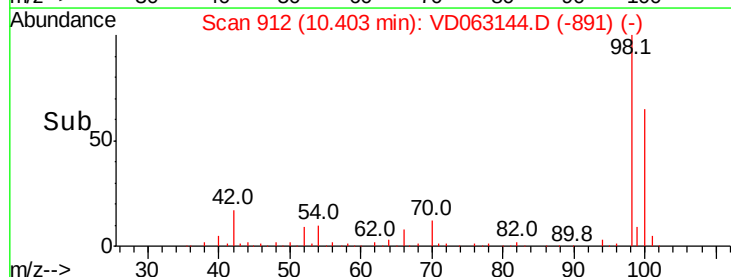
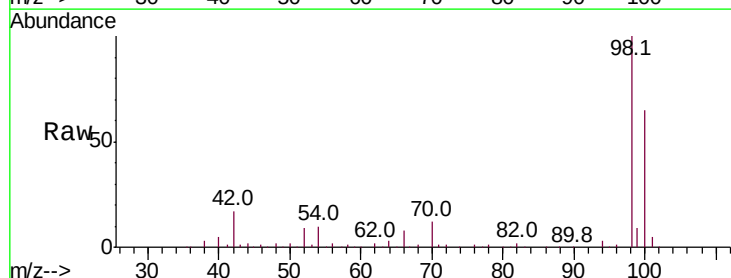
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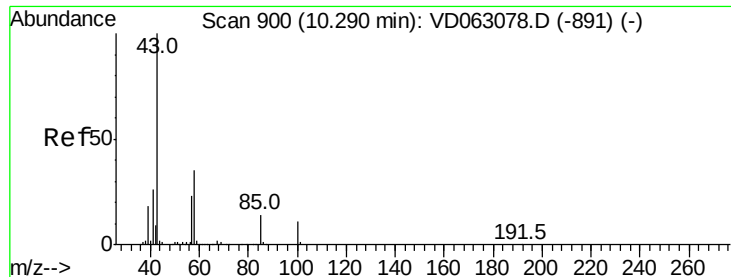
MMDadoda
 7/18/2019 10:01:35 AM



#50
 Toluene-d8
 Concen: 50.655 ug/l
 RT: 10.40 min Scan# 912
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	64.5	53.5	80.3	





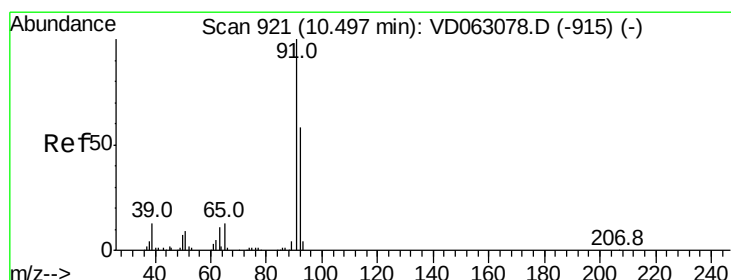
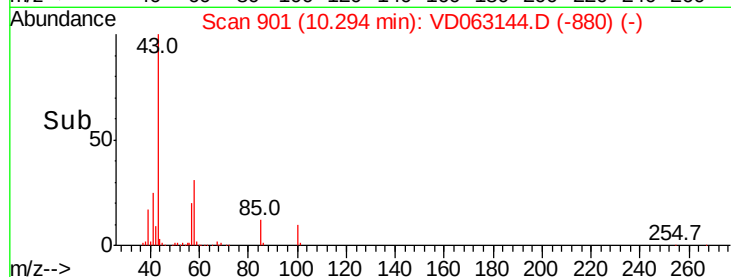
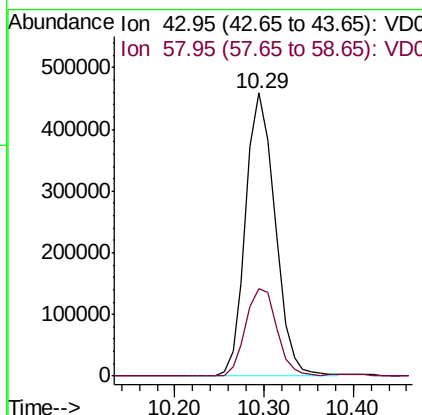
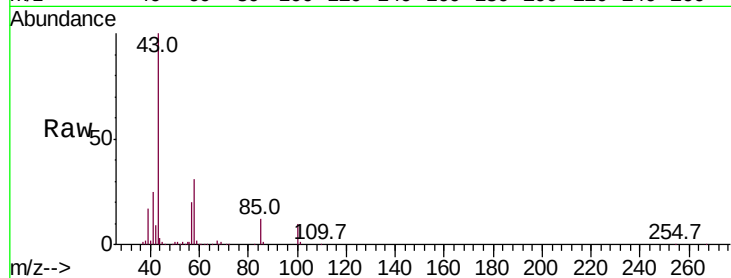
#51
 4-Methyl-2-Pentanone
 Concen: 299.864 ug/l
 RT: 10.29 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 1054247
 Ion Ratio Lower Upper
 43 100
 58 31.1 27.8 41.6

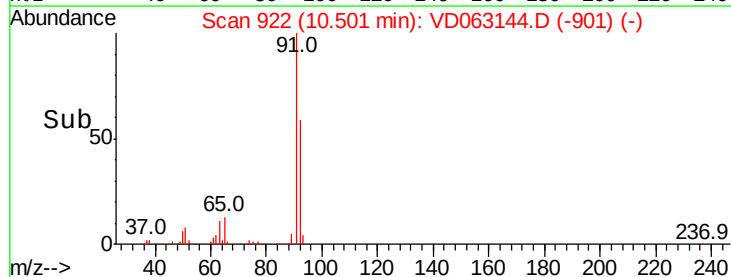
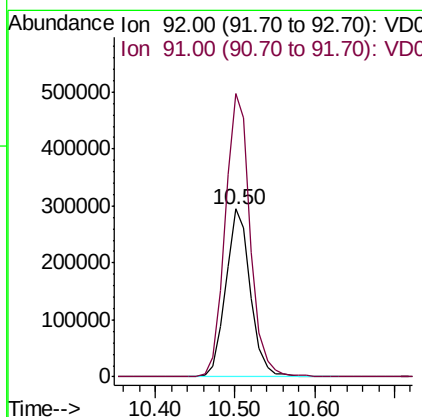
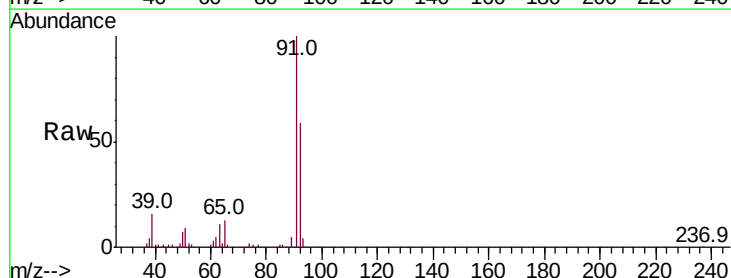
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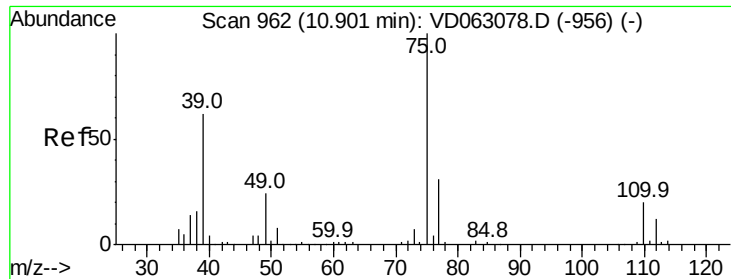
MMDadoda
 7/18/2019 10:01:35 AM



#52
 Toluene
 Concen: 53.085 ug/l
 RT: 10.50 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion: 92 Resp: 641547
 Ion Ratio Lower Upper
 92 100
 91 168.7 137.9 206.9





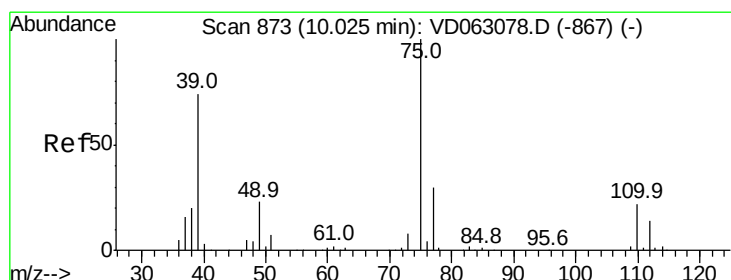
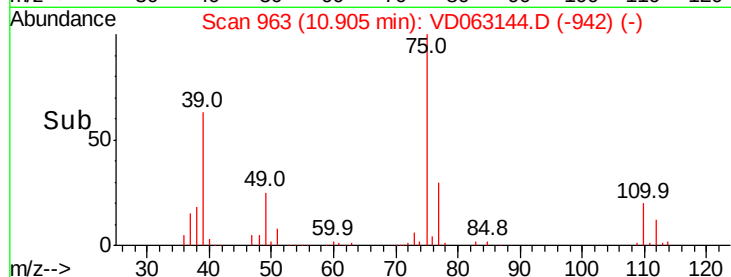
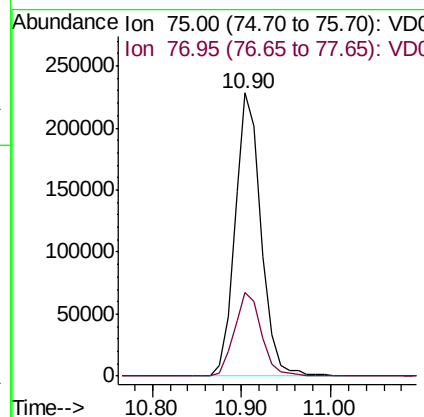
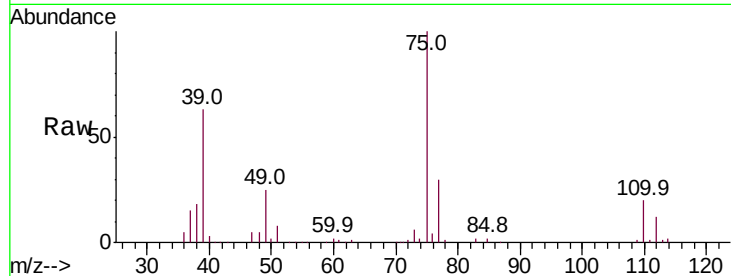
#53
 t-1,3-Dichloropropene
 Concen: 53.585 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 75 Resp: 464520
 Ion Ratio Lower Upper
 75 100
 77 29.8 24.9 37.3

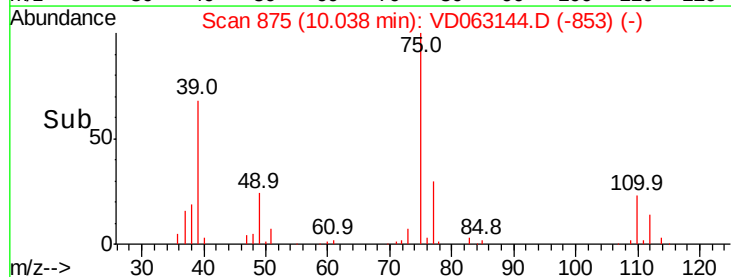
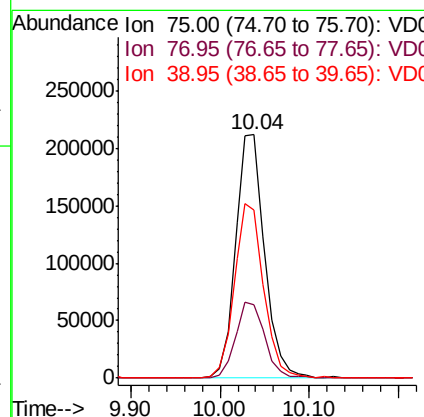
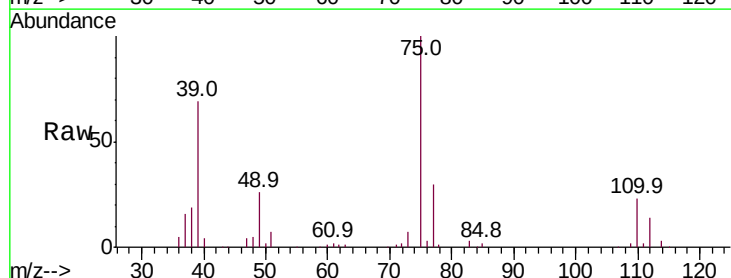
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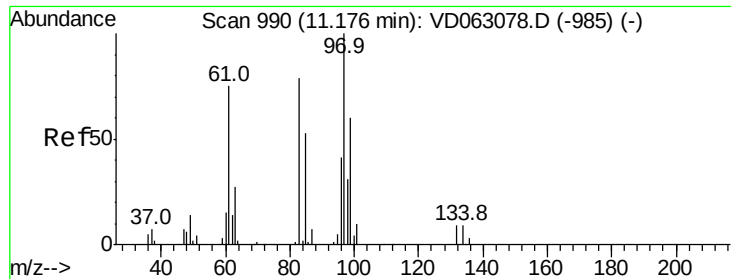
MMDadoda
 7/18/2019 10:01:35 AM



#54
 cis-1,3-Dichloropropene
 Concen: 53.884 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. 0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion: 75 Resp: 482987
 Ion Ratio Lower Upper
 75 100
 77 30.1 23.9 35.9
 39 69.2 59.4 89.0





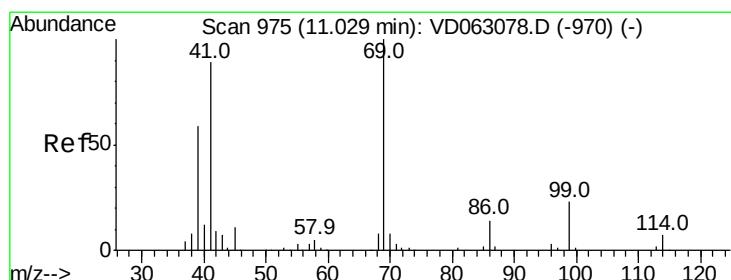
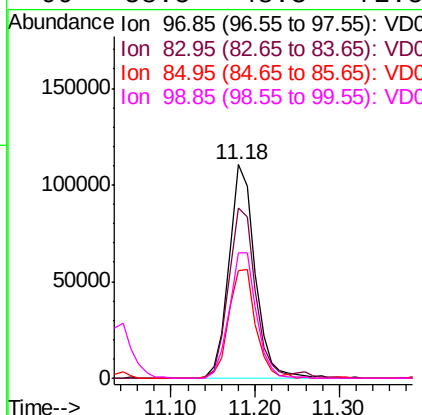
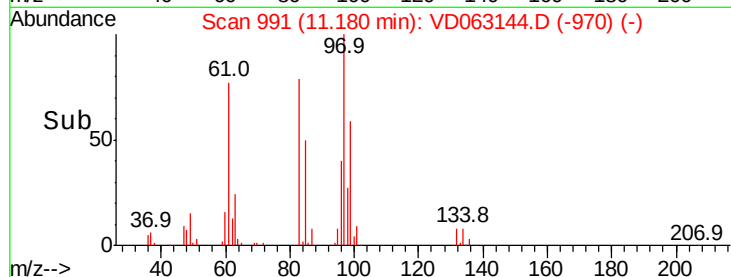
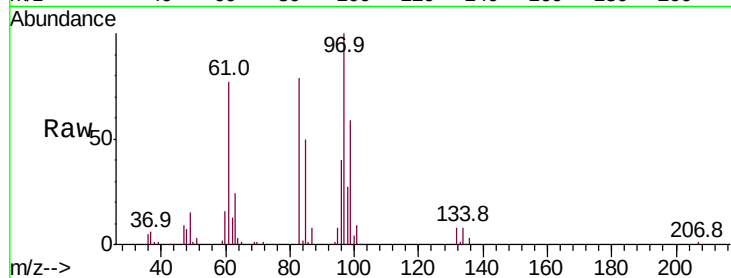
#55
1,1,2-Trichloroethane
Concen: 57.294 ug/l
RT: 11.18 min Scan# 991
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
97	100	239287		
83	79.5	63.2	94.8	
85	50.2	42.0	63.0	
99	58.5	48.3	72.5	

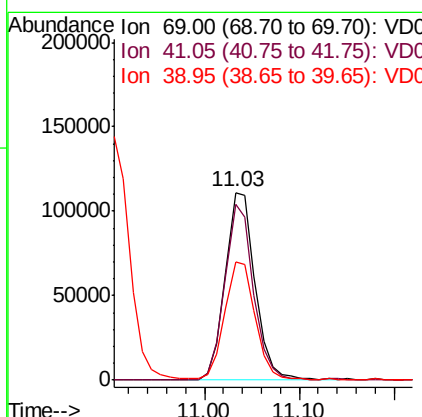
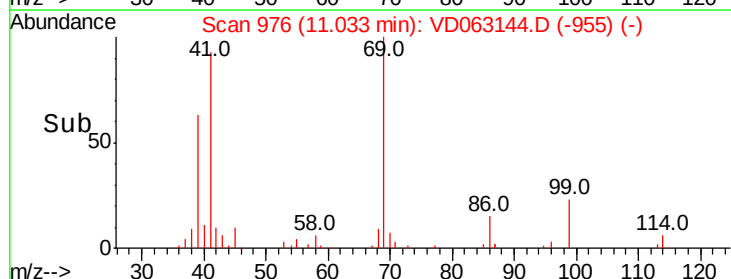
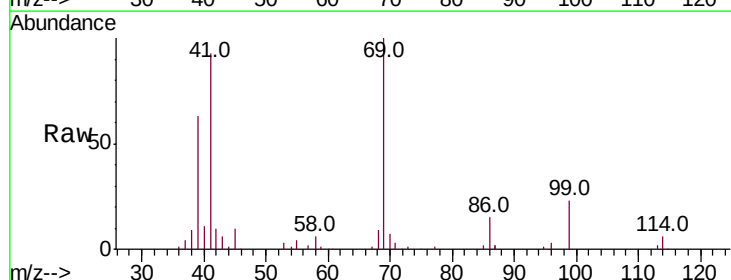
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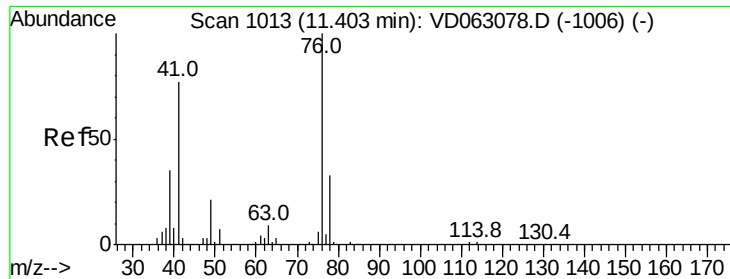
MMDadoda
7/18/2019 10:01:35 AM



#56
Ethyl methacrylate
Concen: 51.896 ug/l
RT: 11.03 min Scan# 976
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	242167		
41	93.4	71.0	106.4	
39	62.9	47.7	71.5	





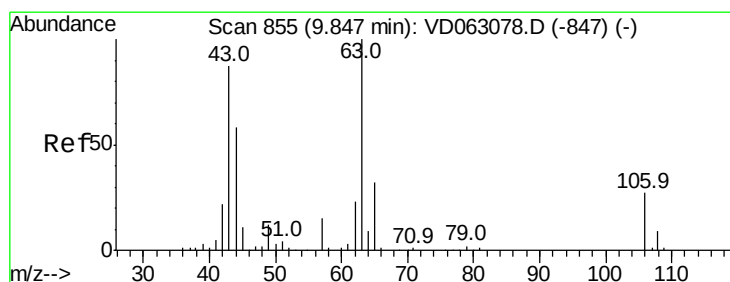
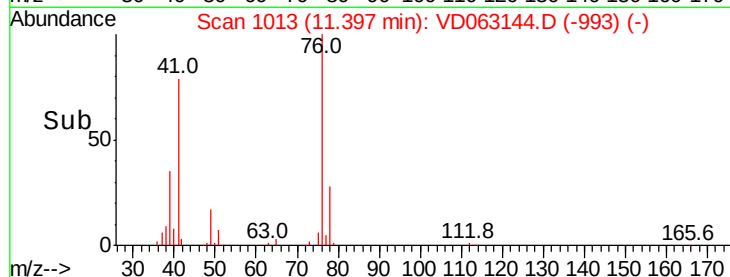
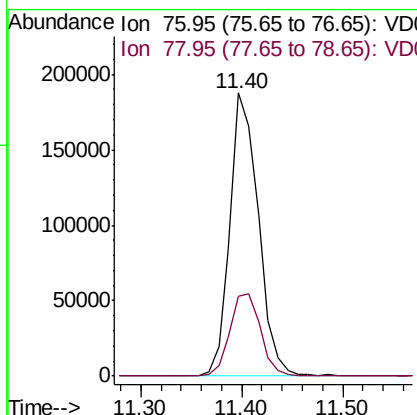
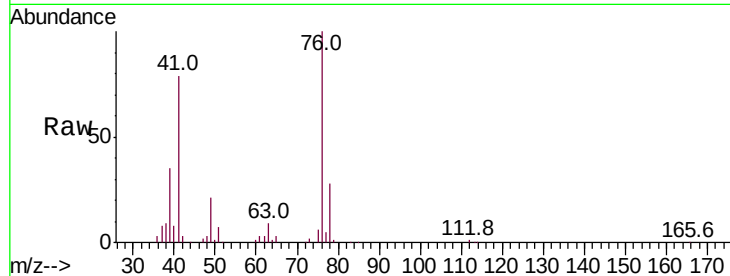
#57
 1,3-Dichloropropane
 Concen: 57.852 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 367652
 Ion Ratio Lower Upper
 76 100
 78 28.2 26.8 40.2

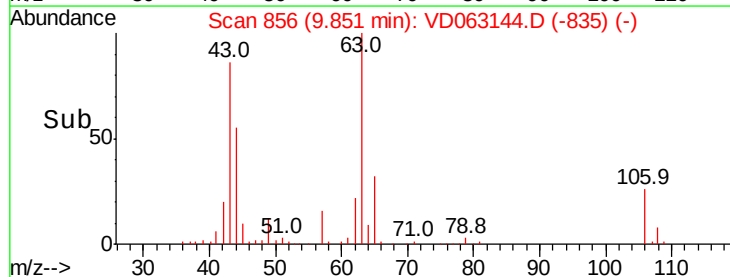
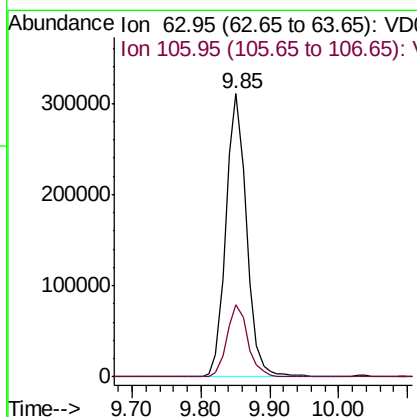
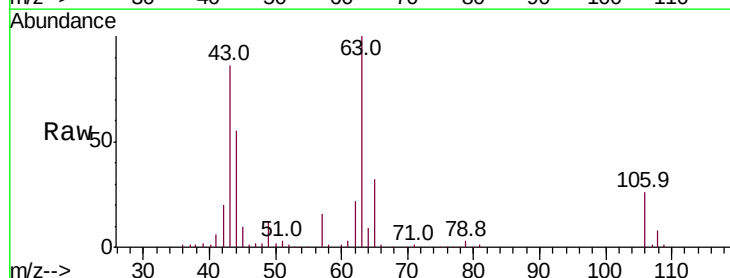
Manual Integrations
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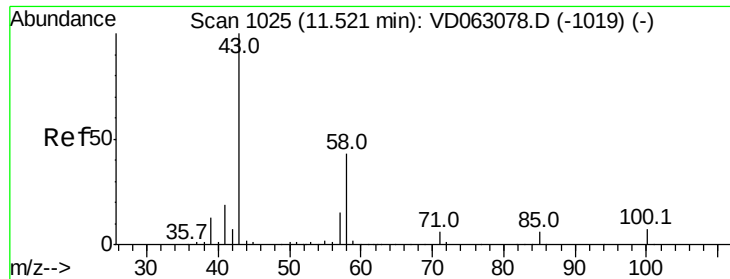
MMDadoda
 7/18/2019 10:01:35 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 247.129 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion: 63 Resp: 642105
 Ion Ratio Lower Upper
 63 100
 106 25.5 21.3 31.9





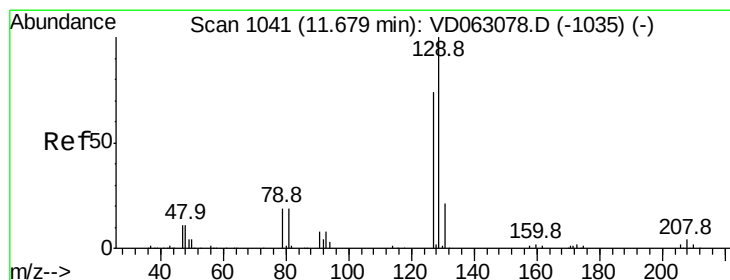
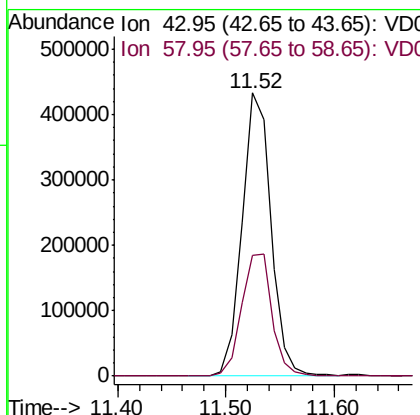
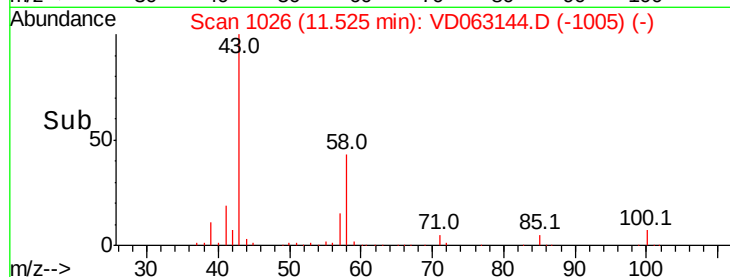
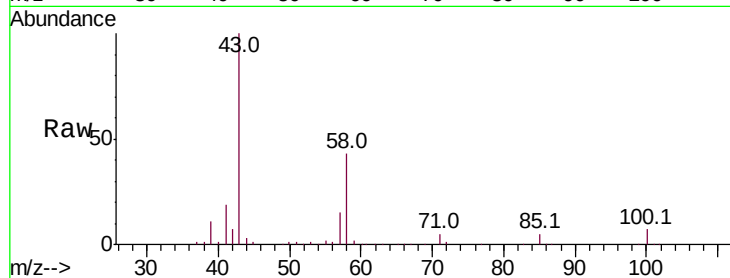
#59
2-Hexanone
Concen: 297.572 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 806831
Ion Ratio Lower Upper
43 100
58 42.8 21.7 65.1

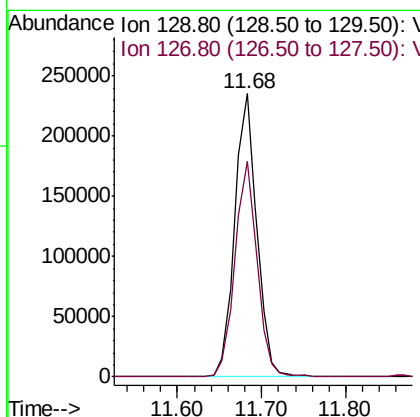
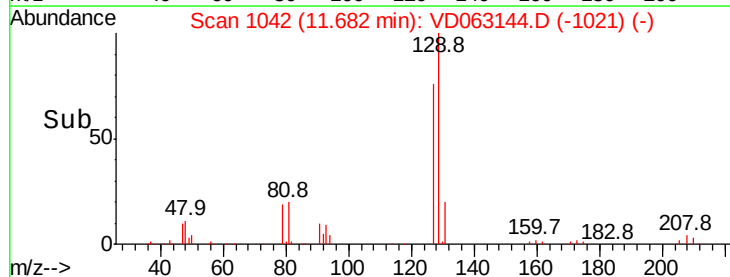
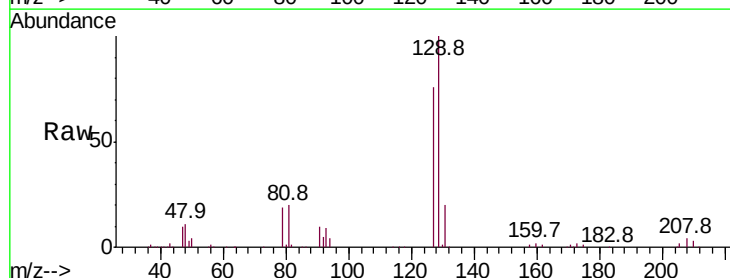
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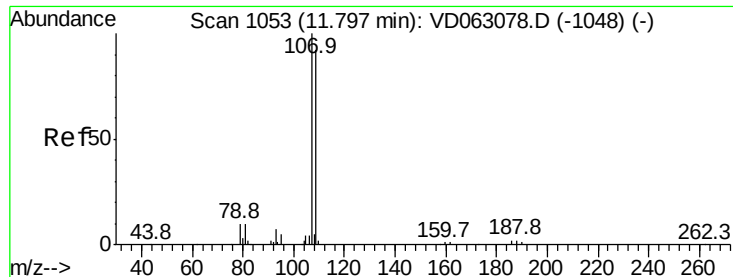
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#60
Dibromochloromethane
Concen: 53.519 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion: 129 Resp: 428462
Ion Ratio Lower Upper
129 100
127 76.4 37.0 110.9





#61

1,2-Dibromoethane

Concen: 57.033 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 285117

Ion Ratio Lower Upper

107 100

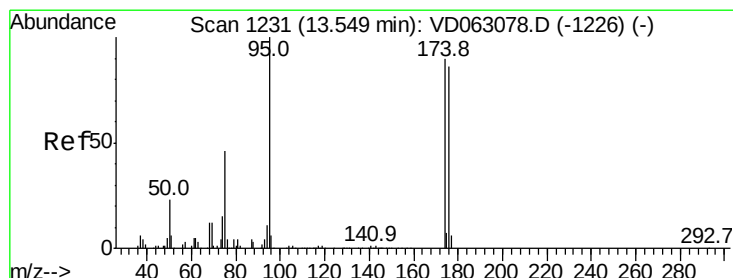
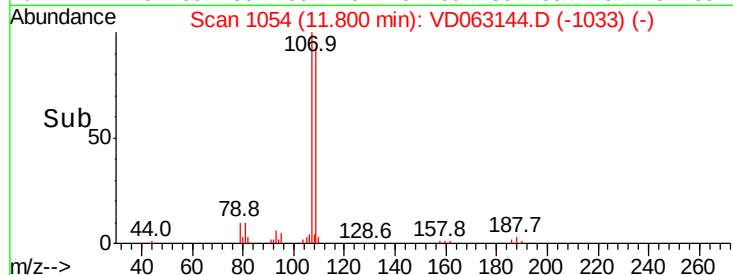
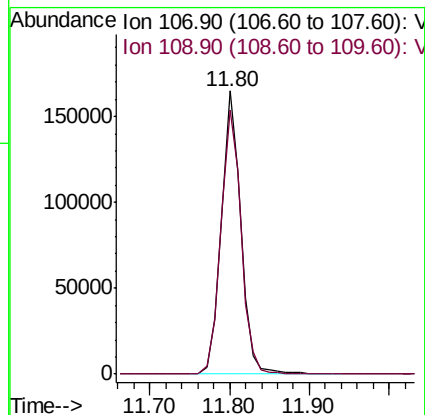
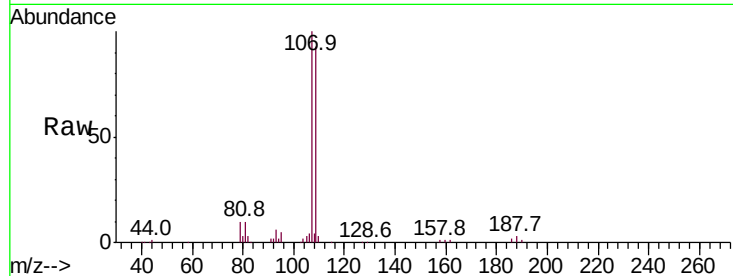
109 93.4 73.6 110.4

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7/18/2019 10:01:35 AM



#62

4-Bromofluorobenzene

Concen: 52.152 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

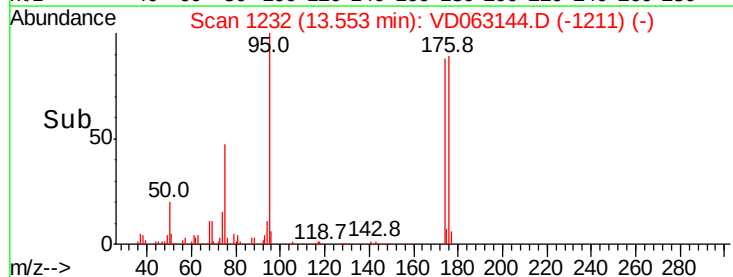
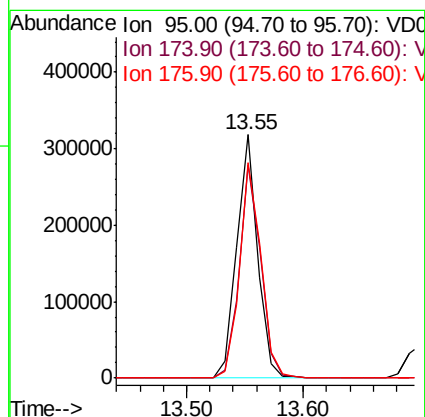
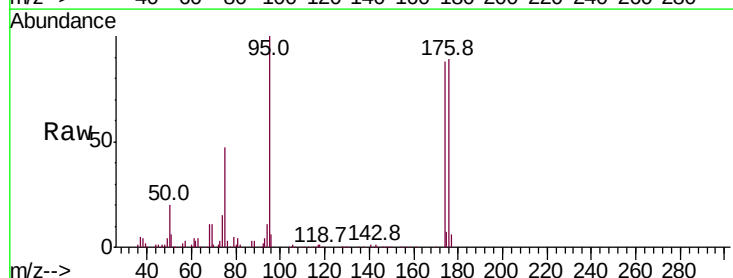
Tgt Ion: 95 Resp: 396602

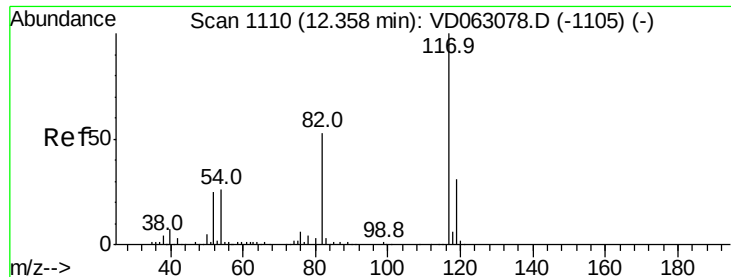
Ion Ratio Lower Upper

95 100

174 87.6 0.0 180.6

176 88.5 0.0 172.2





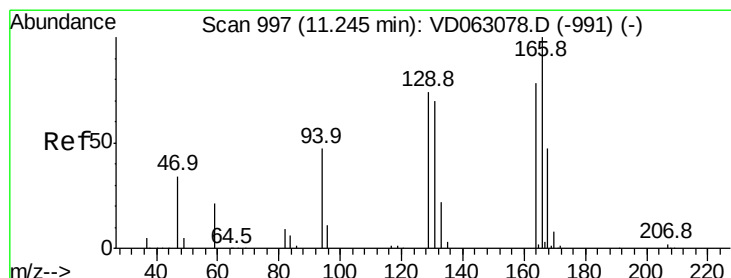
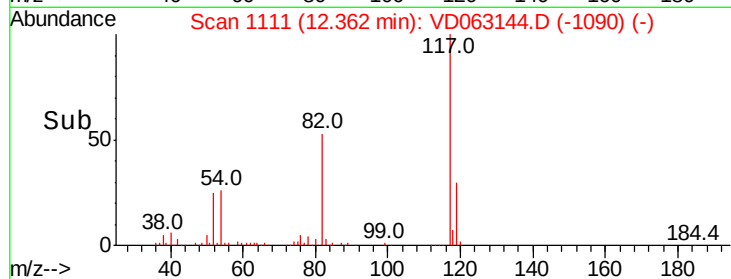
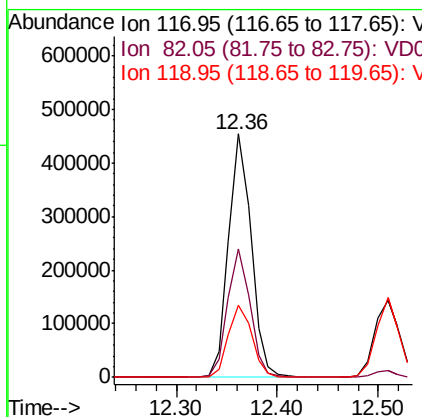
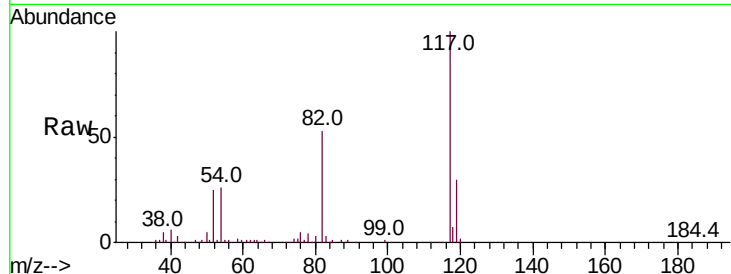
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.3	63.5
119	29.8	25.2	37.8

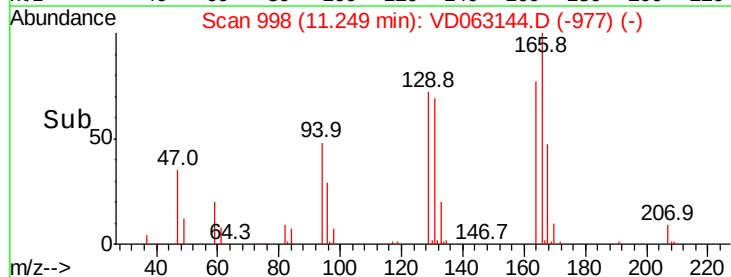
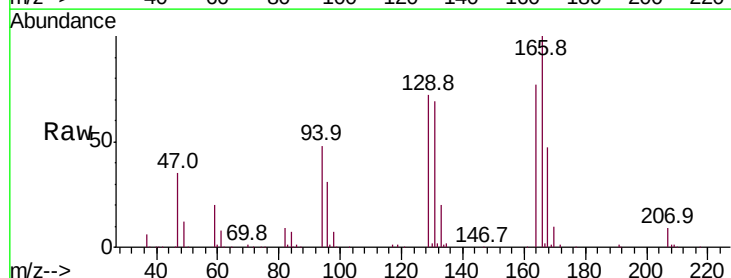
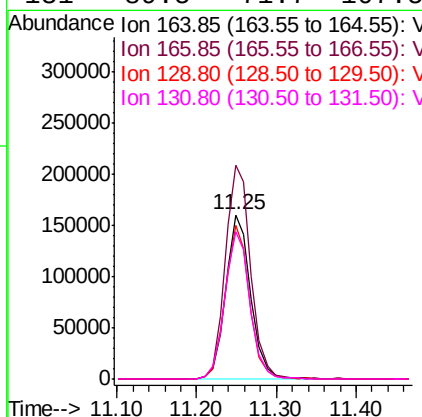
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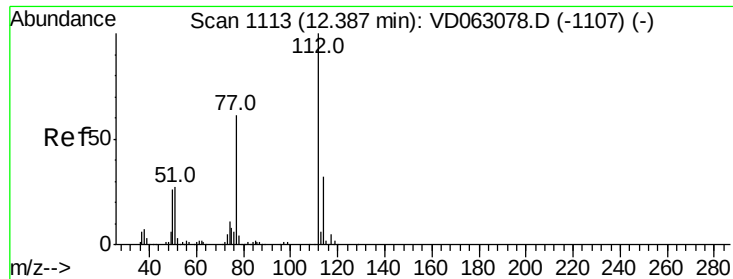
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#64
Tetrachloroethene
Concen: 50.446 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.2	102.8	154.2
129	93.9	76.4	114.6
131	89.5	71.7	107.5





#65

Chlorobenzene

Concen: 51.825 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 870244

Ion Ratio Lower Upper

112 100

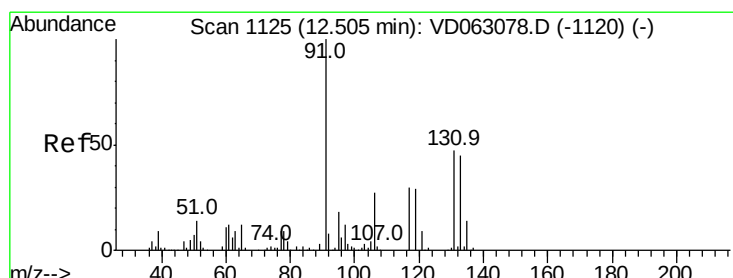
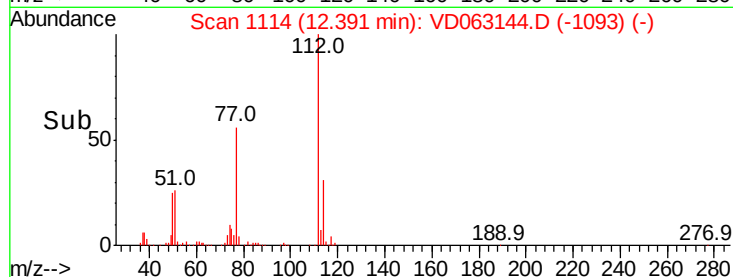
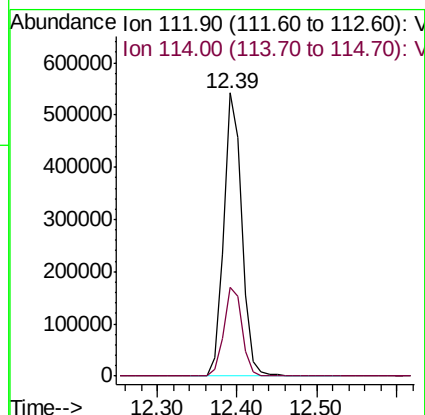
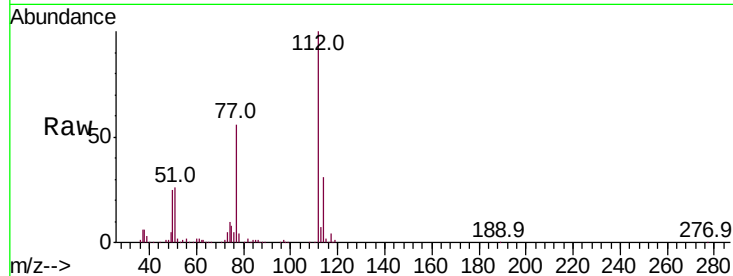
114 31.3 25.9 38.9

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#66

1,1,1,2-Tetrachloroethane

Concen: 50.160 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

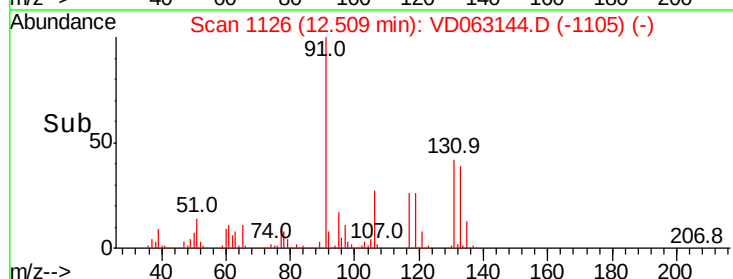
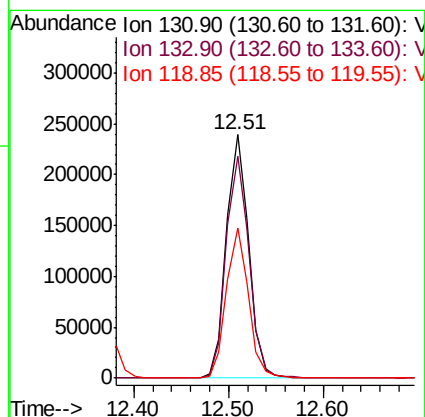
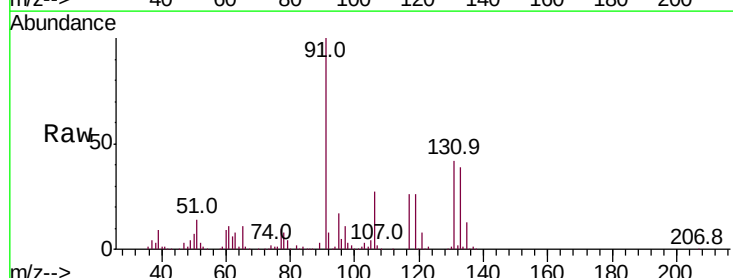
Tgt Ion:131 Resp: 390511

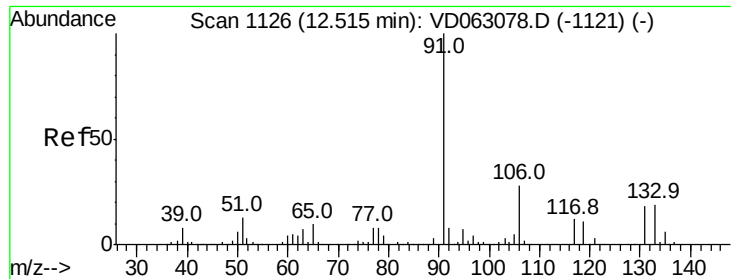
Ion Ratio Lower Upper

131 100

133 91.3 48.5 145.6

119 61.8 30.8 92.3





#67

Ethyl Benzene

Concen: 50.162 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1463547

Ion Ratio Lower Upper

91 100

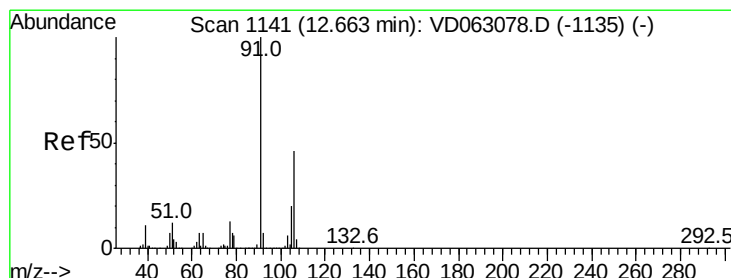
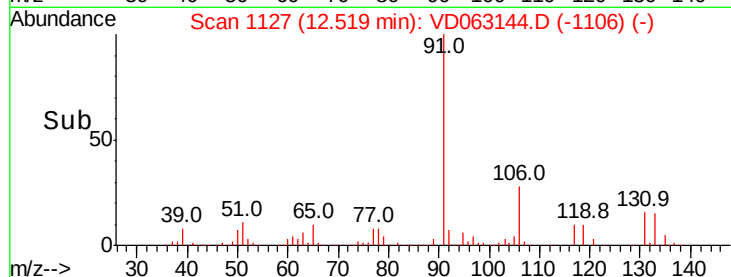
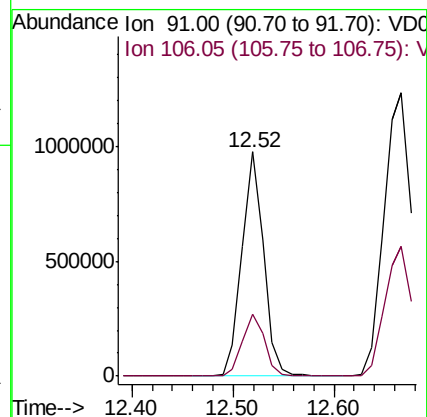
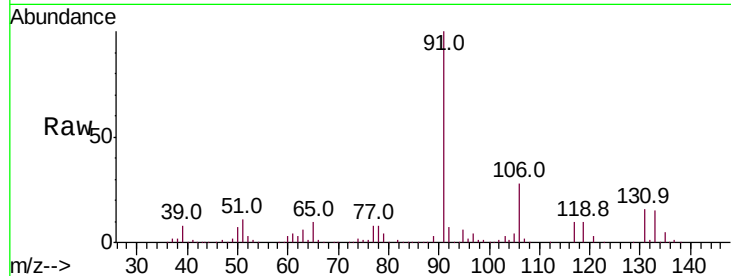
106 27.7 22.5 33.7

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7/18/2019 10:01:35 AM



#68

m/p-Xylenes

Concen: 101.892 ug/l

RT: 12.67 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VD063144.D

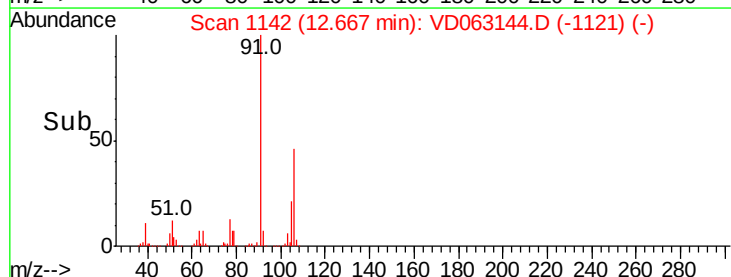
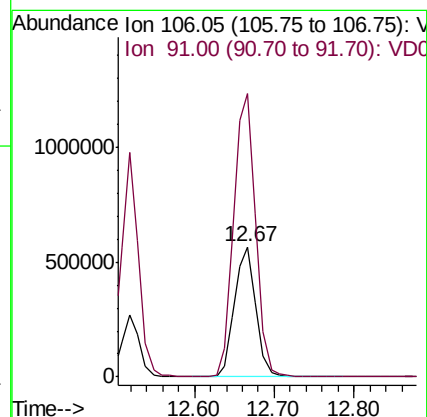
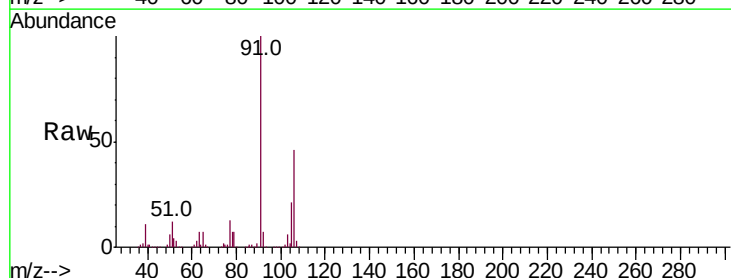
Acq: 17 Jul 2019 21:10

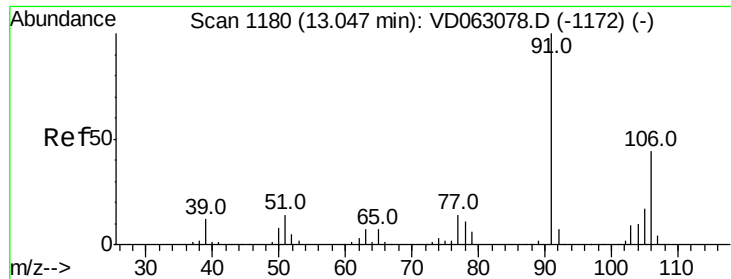
Tgt Ion:106 Resp: 1064783

Ion Ratio Lower Upper

106 100

91 218.1 173.0 259.6





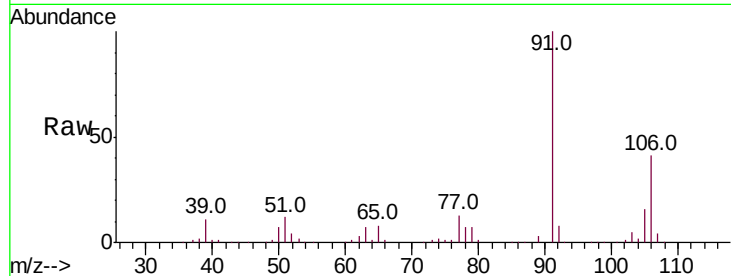
#69
o-Xylene
Concen: 49.125 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

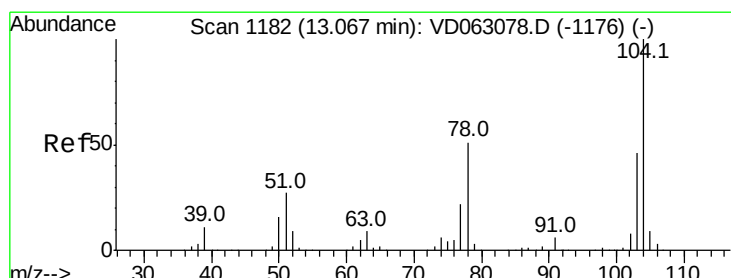
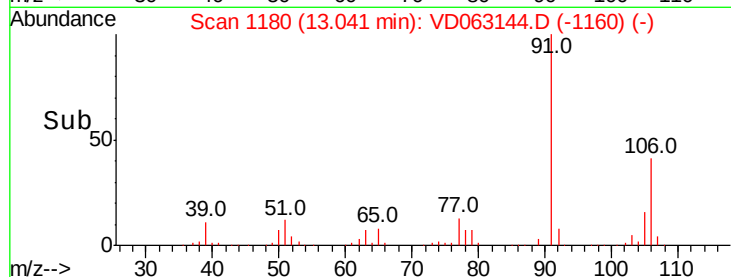
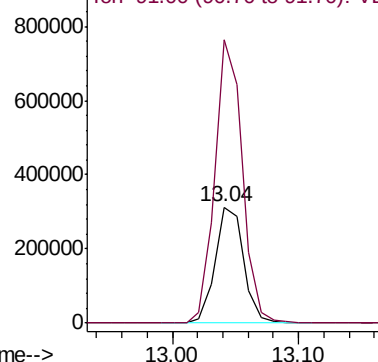
Tot Ion:106 Resp: 486781
Ion Ratio Lower Upper
106 100
91 243.9 114.9 344.7

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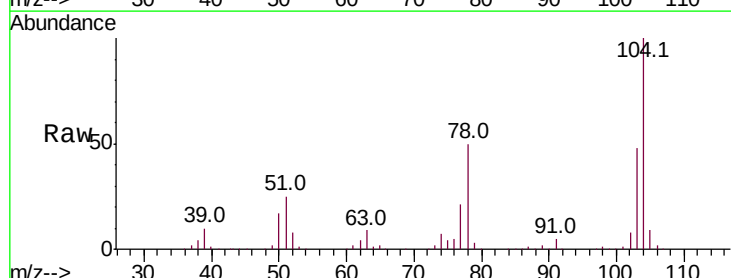


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

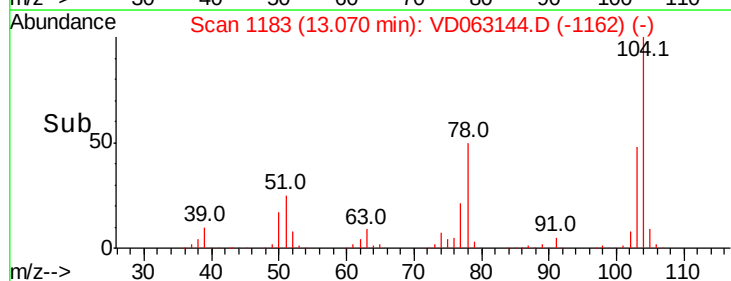
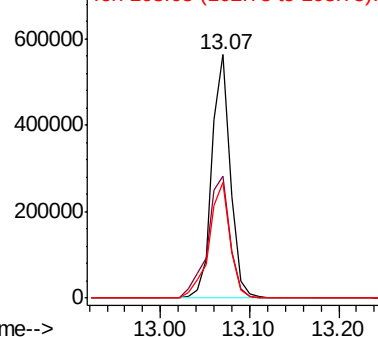


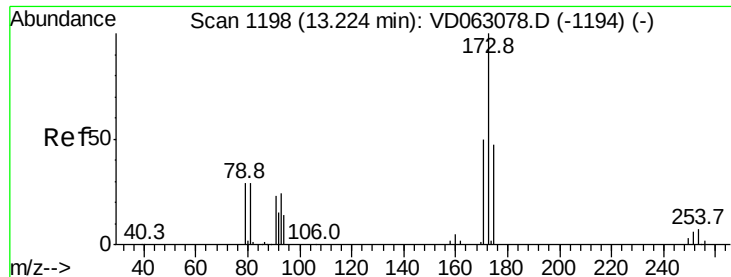
#70
Styrene
Concen: 47.055 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion:104 Resp: 816157
Ion Ratio Lower Upper
104 100
78 50.0 41.1 61.7
103 47.5 37.0 55.6



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: 54.842 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 298912

Ion Ratio Lower Upper

173 100

175 49.0 23.4 70.2

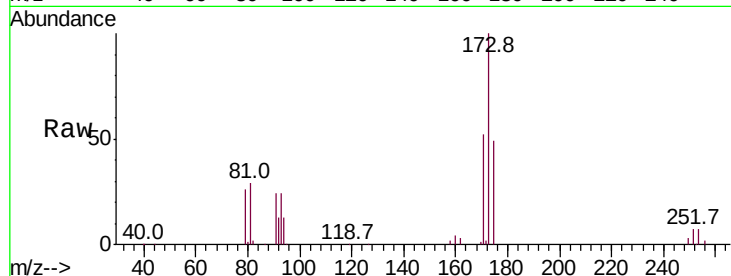
254 7.1 5.4 8.0

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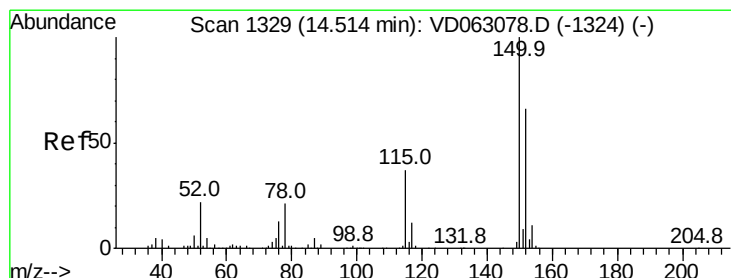
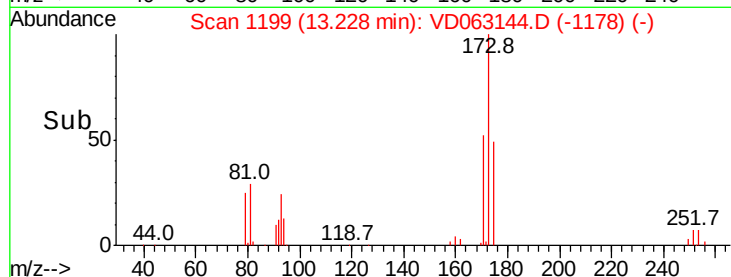
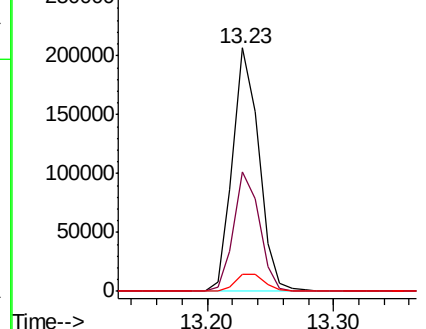
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Abundance Ion 172.80 (172.50 to 173.50): V

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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

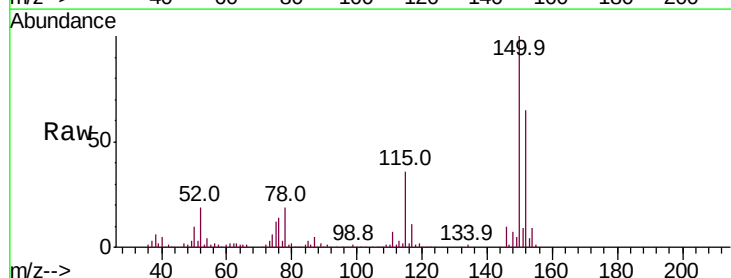
Tgt Ion:152 Resp: 363498

Ion Ratio Lower Upper

152 100

115 55.7 28.9 86.8

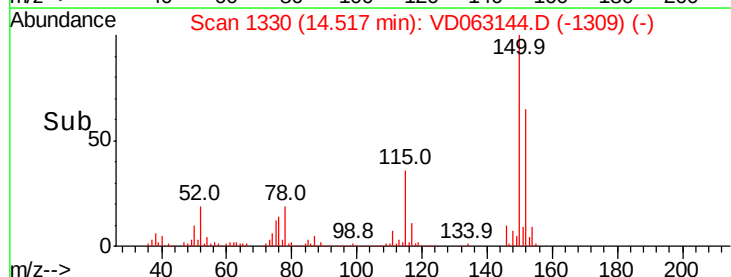
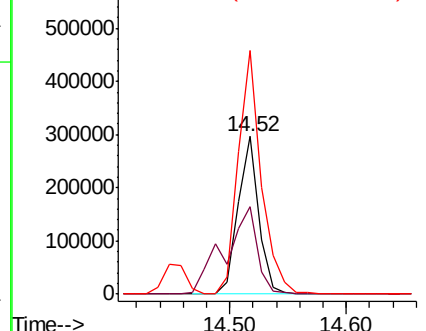
150 154.4 0.0 313.8

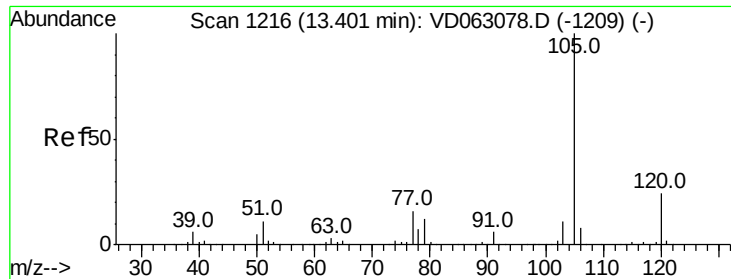


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 55.688 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1563269

Ion Ratio Lower Upper

105 100

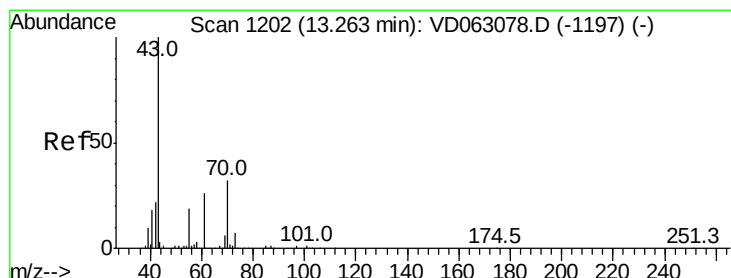
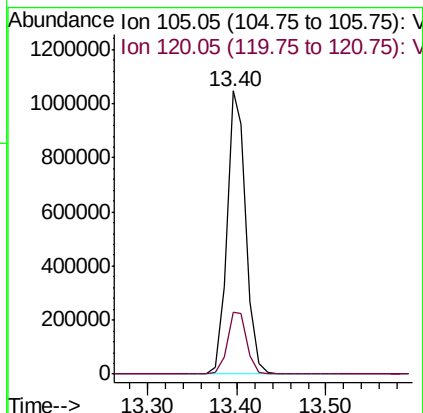
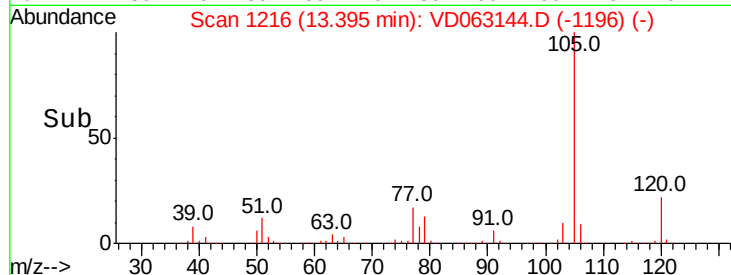
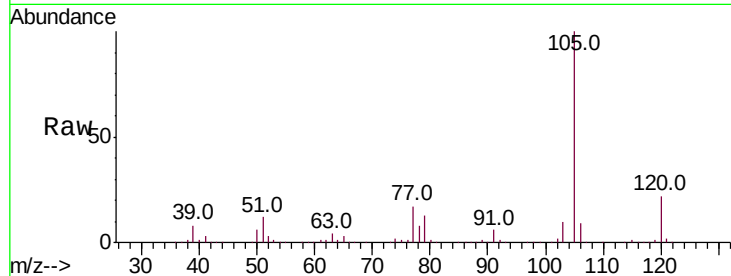
120 21.7 12.2 36.4

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7/18/2019 10:01:35 AM



#74

N-ethyl acetate

Concen: 50.742 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Tgt Ion: 43 Resp: 397261

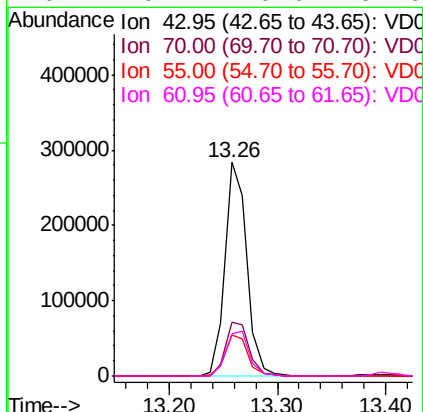
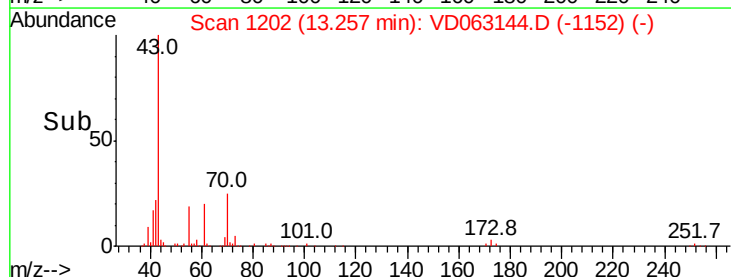
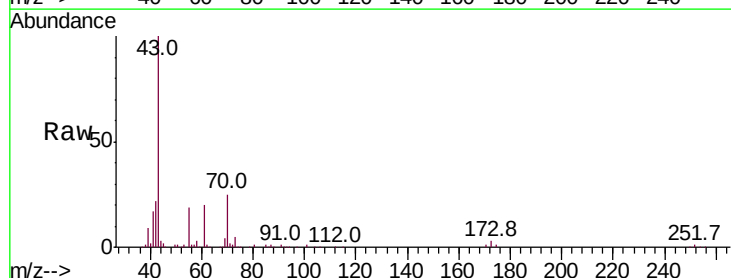
Ion Ratio Lower Upper

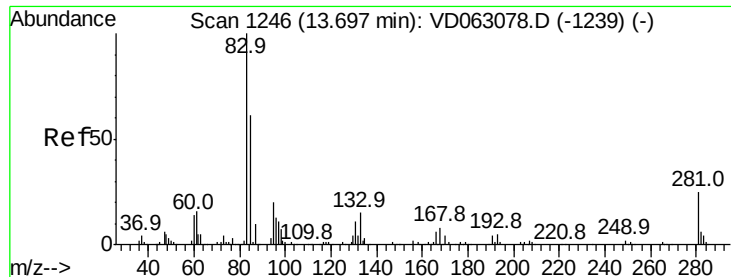
43 100

70 25.1 25.5 38.3#

55 19.0 15.4 23.0

61 19.7 20.6 31.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 55.084 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 281342

Ion Ratio Lower Upper

83 100

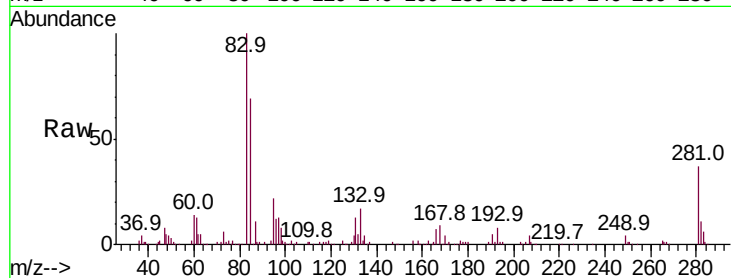
131 12.6 5.5 16.7

85 69.4 30.7 92.1

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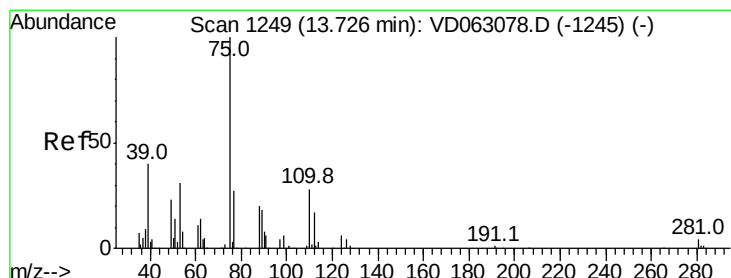
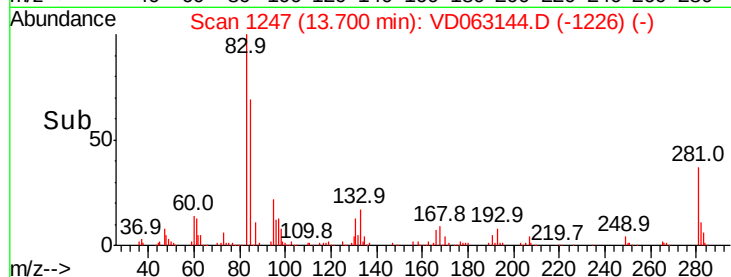
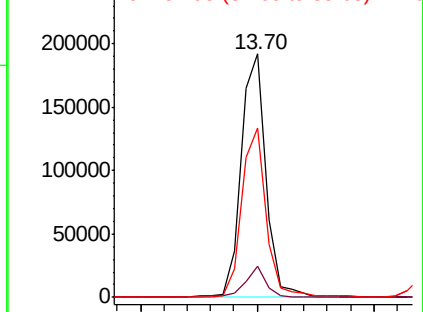
7/18/2019 10:01:35 AM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 53.580 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD063144.D

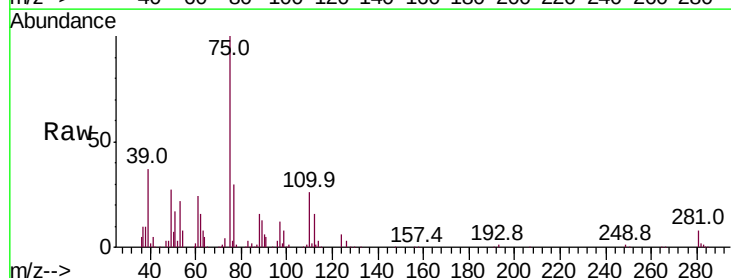
Acq: 17 Jul 2019 21:10

Tgt Ion: 75 Resp: 299600

Ion Ratio Lower Upper

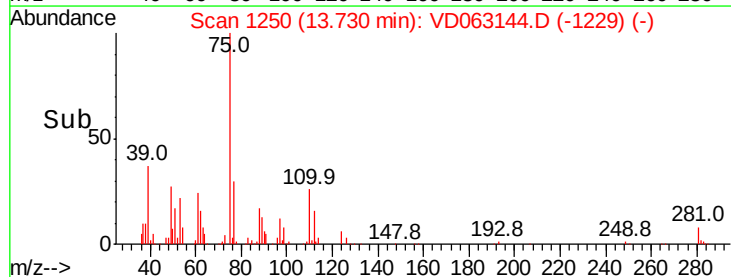
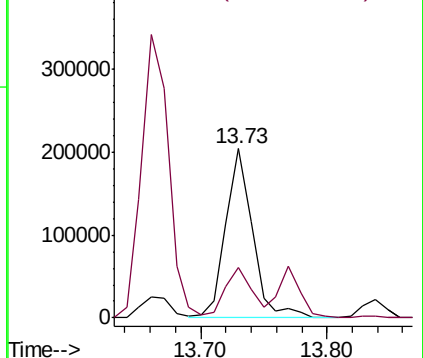
75 100

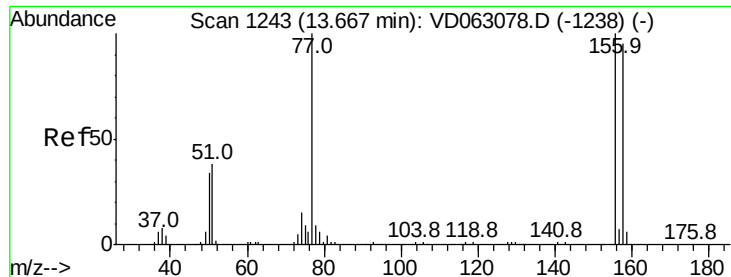
77 29.8 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 52.487 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 417835

Ion Ratio Lower Upper

156 100

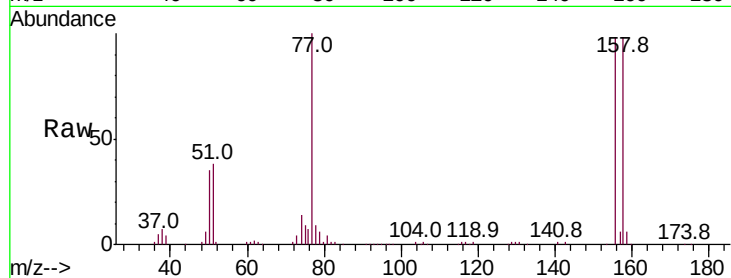
77 102.1 50.2 150.7

158 100.3 47.6 142.9

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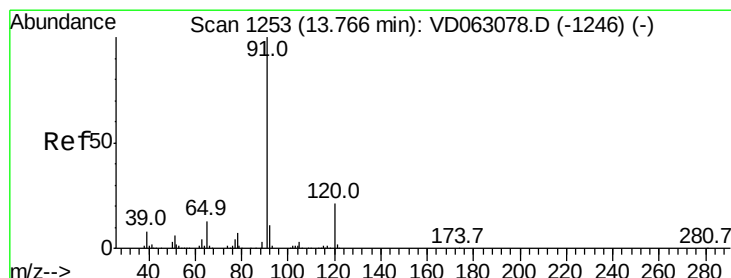
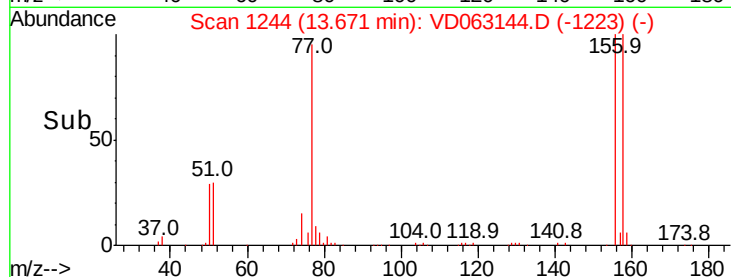
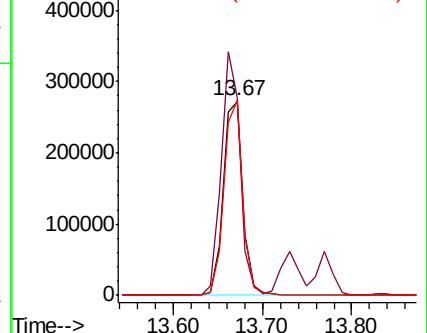
7/18/2019 10:01:35 AM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 53.722 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD063144.D

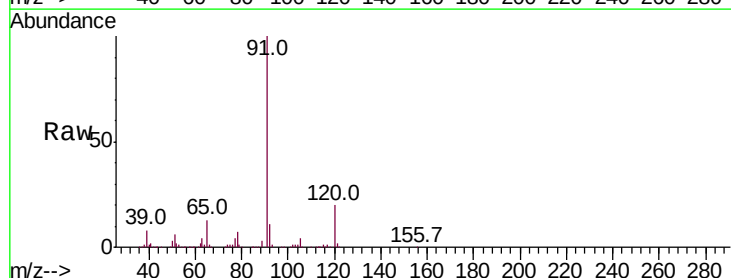
Acq: 17 Jul 2019 21:10

Tgt Ion: 91 Resp: 1735462

Ion Ratio Lower Upper

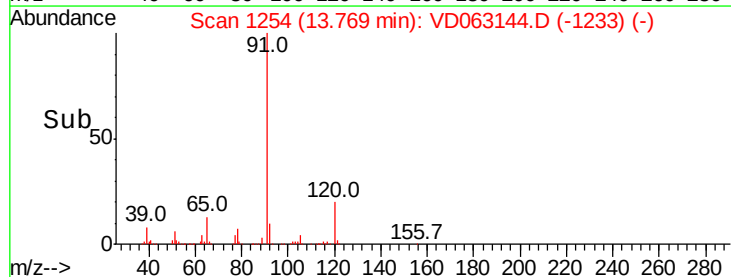
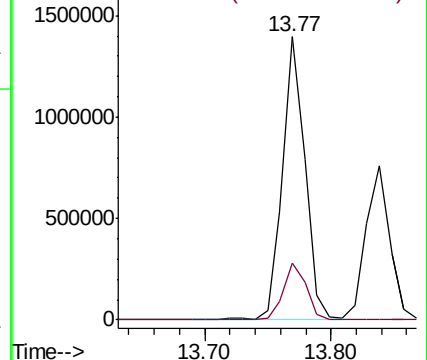
91 100

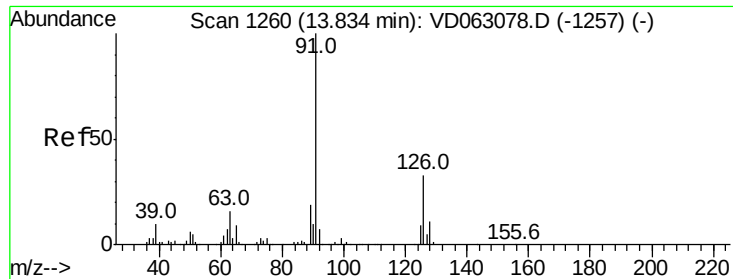
120 20.0 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





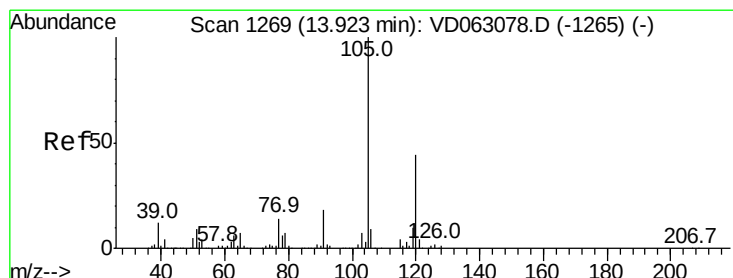
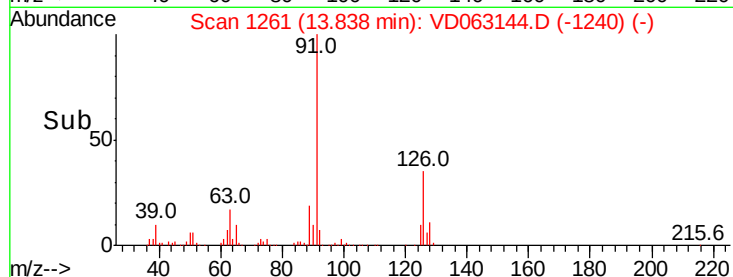
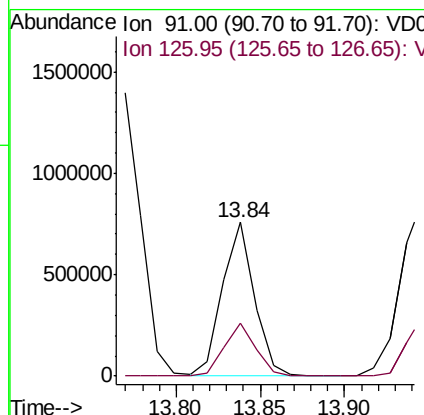
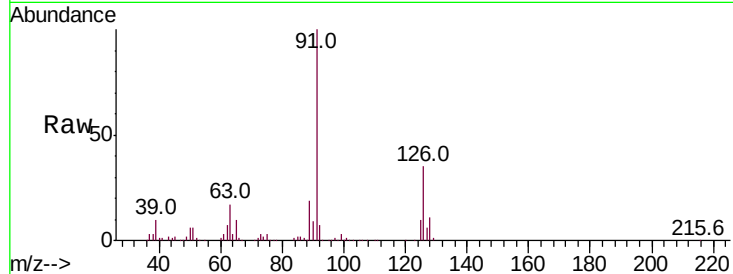
#79
 2-Chlorotoluene
 Concen: 51.016 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 91 Resp: 996456
 Ion Ratio Lower Upper
 91 100
 126 34.8 16.4 49.2

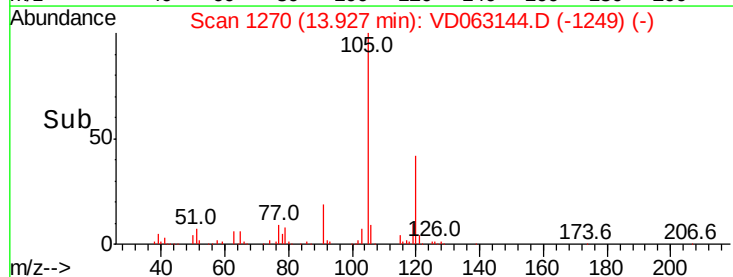
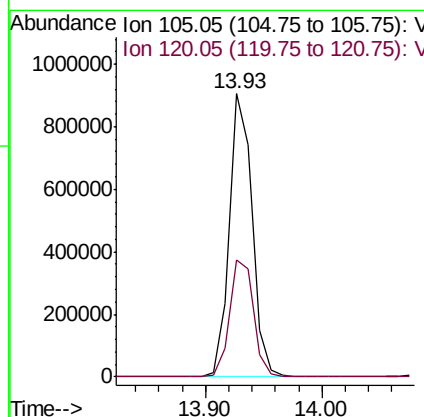
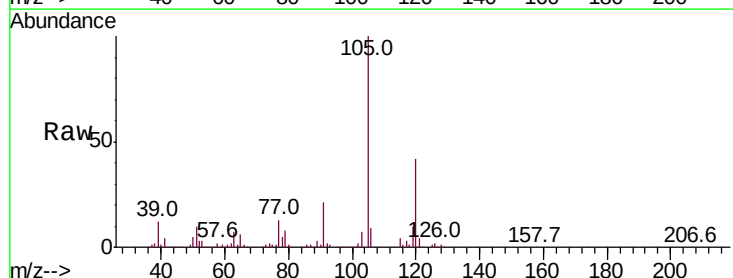
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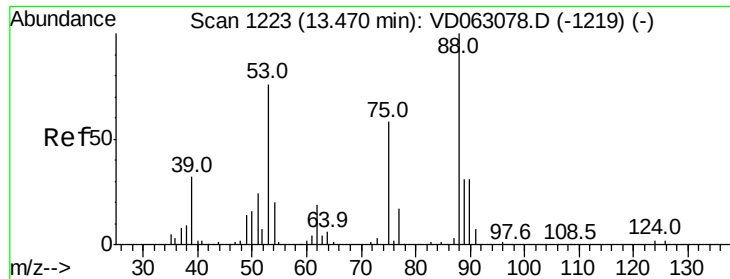
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#80
 1,3,5-Trimethylbenzene
 Concen: 49.983 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion: 105 Resp: 1222894
 Ion Ratio Lower Upper
 105 100
 120 41.5 21.8 65.4





#81

trans-1,4-Dichloro-2-butene

Concen: 53.808 ug/l

RT: 13.46 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD063144.D

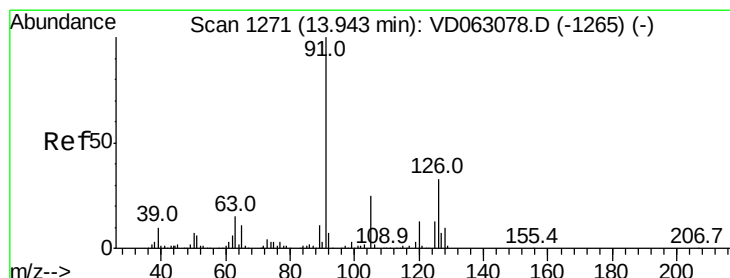
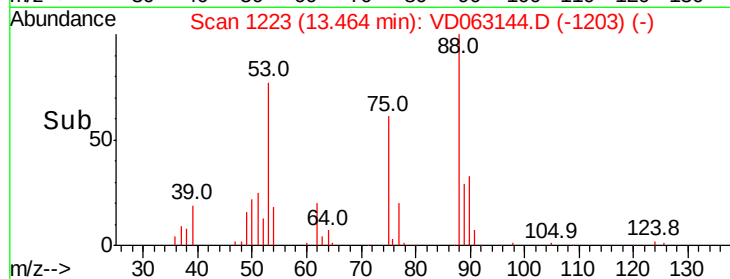
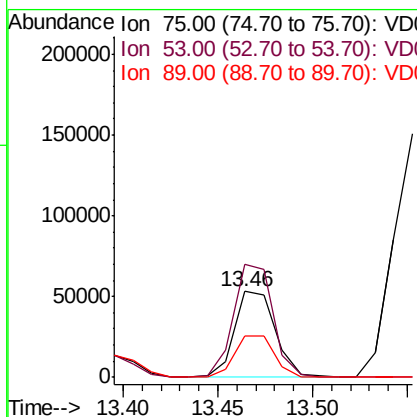
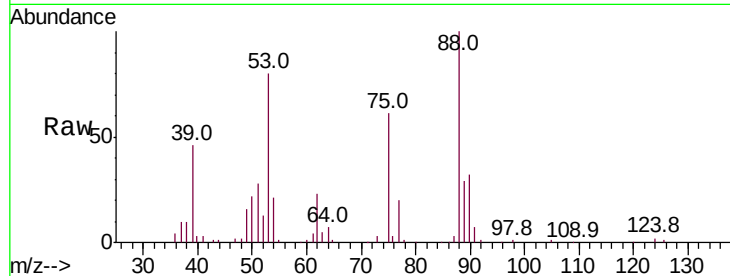
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	131.9	104.4	156.6
89	47.4	43.1	64.7

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#82

4-Chlorotoluene

Concen: 53.525 ug/l

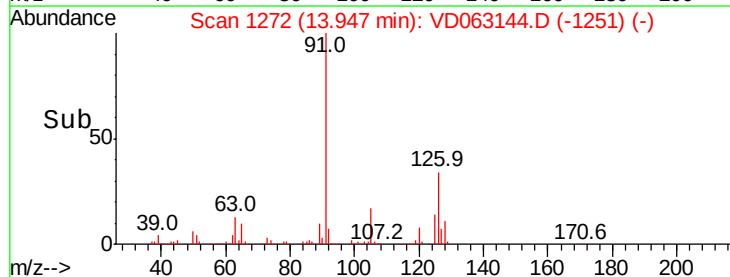
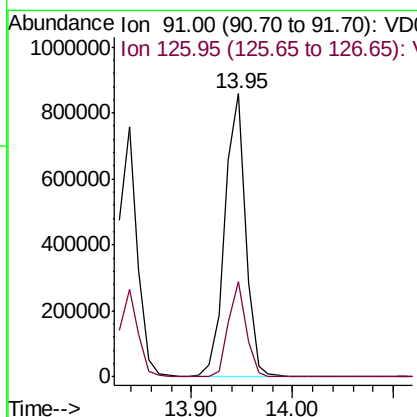
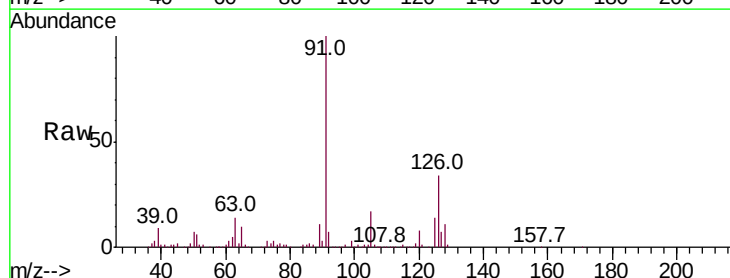
RT: 13.95 min Scan# 1272

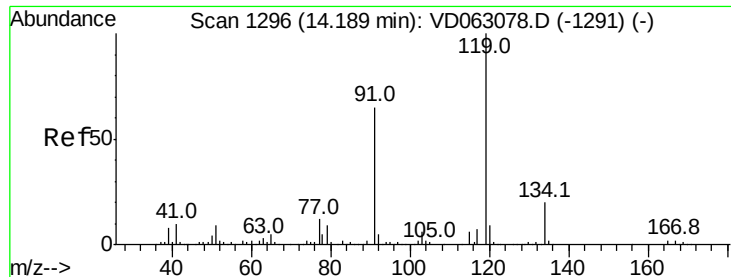
Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.7	50.1





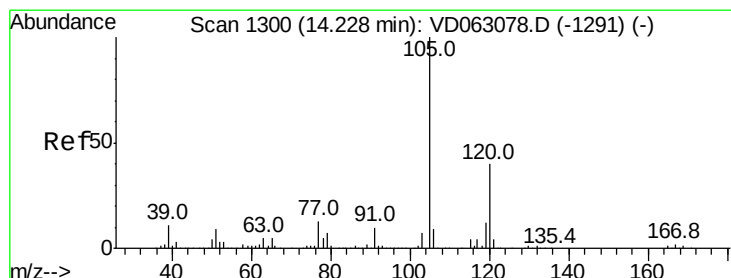
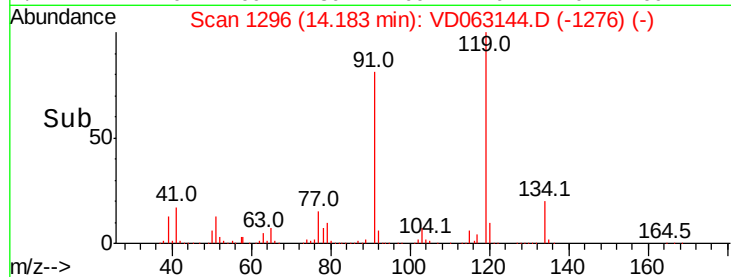
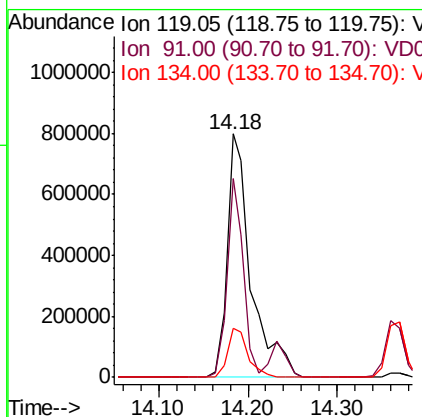
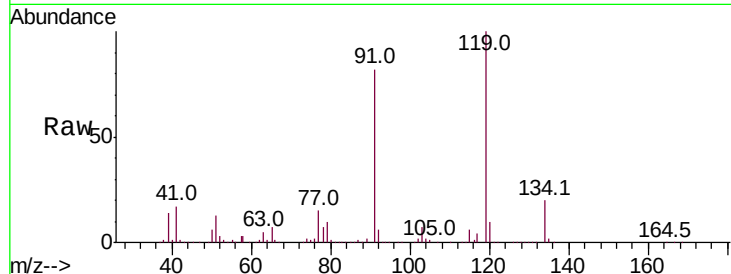
#83
 tert-Butylbenzene
 Concen: 54.173 ug/l
 RT: 14.18 min Scan# 1296
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:119 Resp: 1498646
 Ion Ratio Lower Upper
 119 100
 91 81.5 32.4 97.2
 134 20.2 10.2 30.6

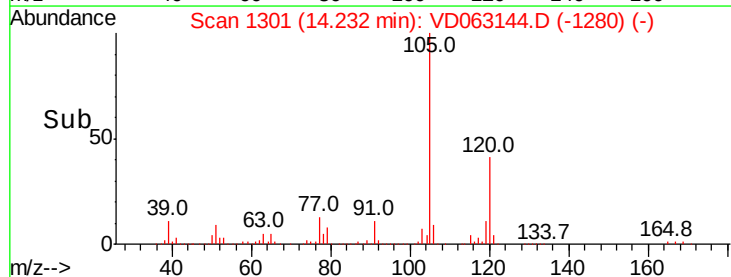
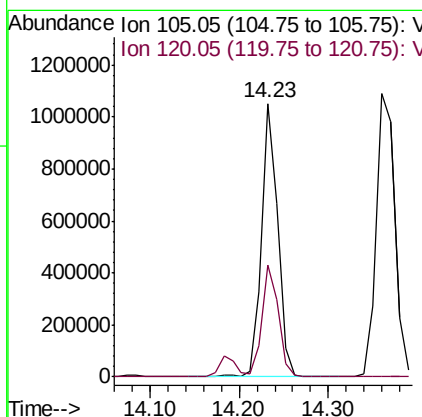
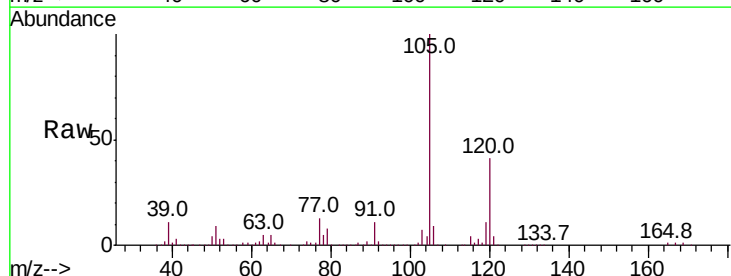
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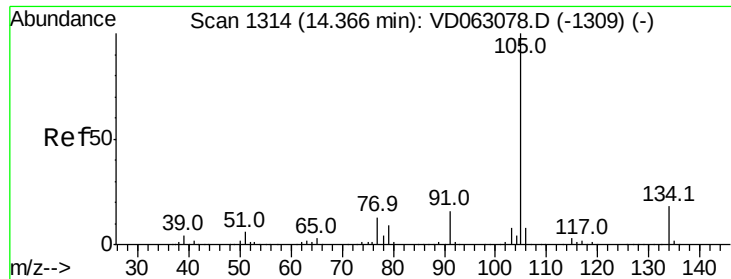
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#84
 1,2,4-Trimethylbenzene
 Concen: 53.676 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion:105 Resp: 1309244
 Ion Ratio Lower Upper
 105 100
 120 40.7 20.2 60.6





#85

sec-Butylbenzene

Concen: 52.675 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1548254

Ion Ratio Lower Upper

105 100

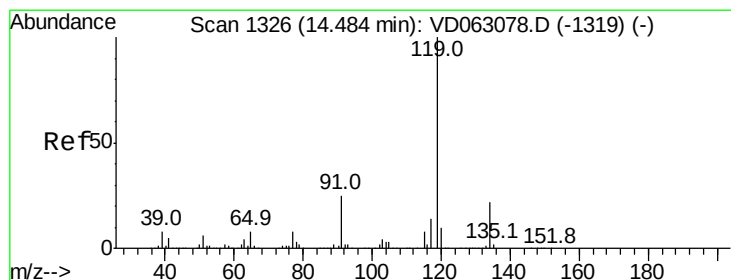
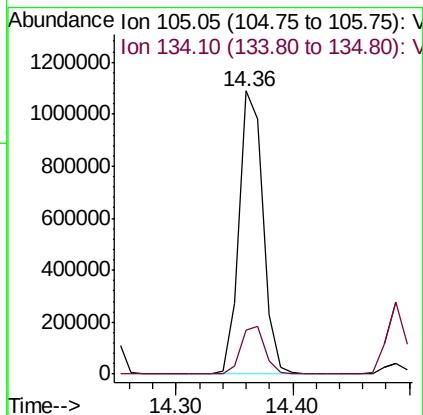
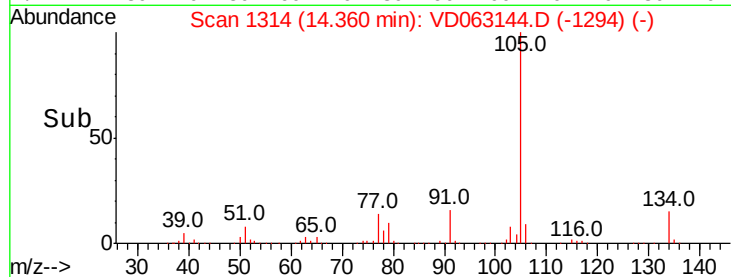
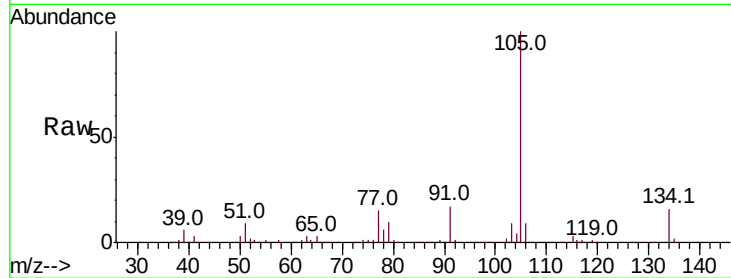
134 15.6 8.9 26.8

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#86

p-Isopropyltoluene

Concen: 51.209 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

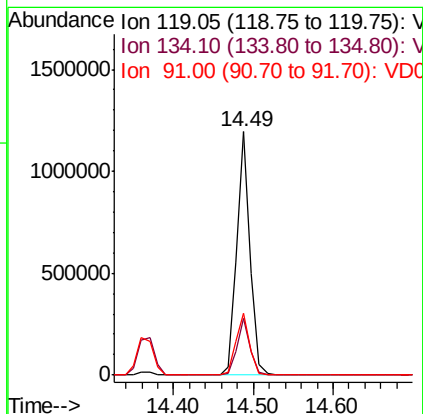
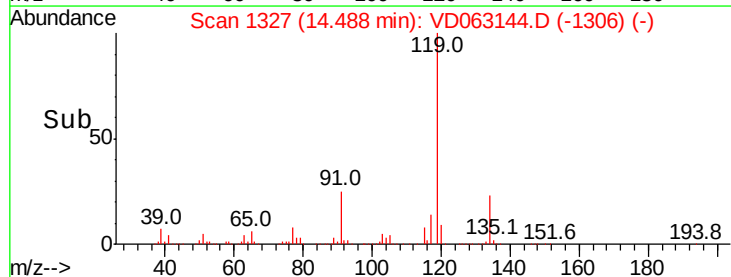
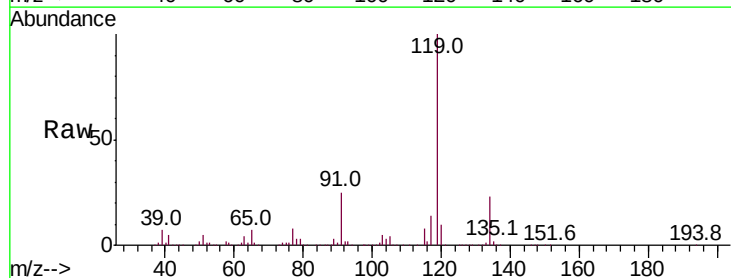
Tgt Ion:119 Resp: 1404121

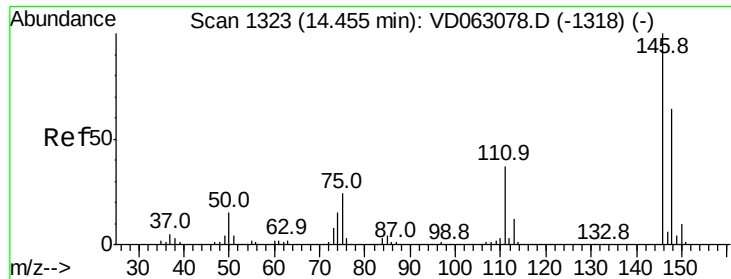
Ion Ratio Lower Upper

119 100

134 23.1 10.8 32.4

91 25.4 12.5 37.5





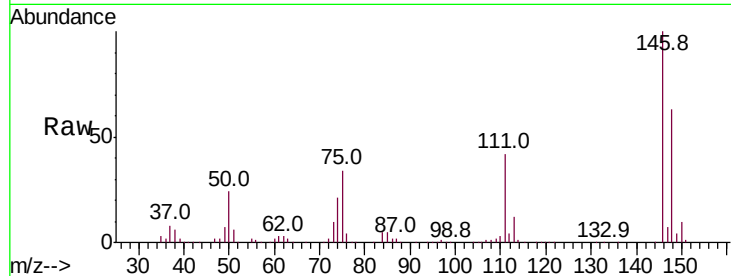
#87
 1,3-Dichlorobenzene
 Concen: 55.540 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

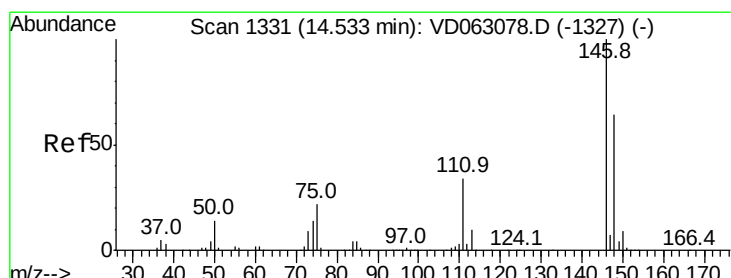
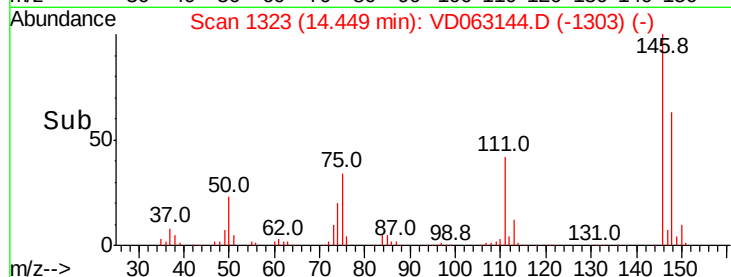
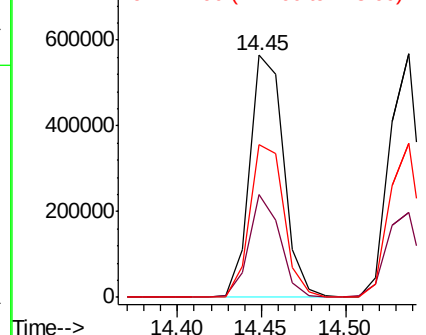
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	18.6	55.6
148	63.4	32.0	96.0

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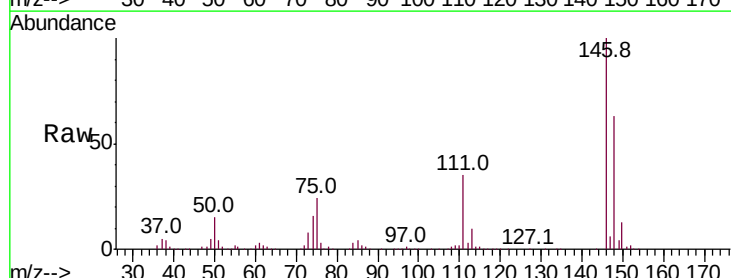


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

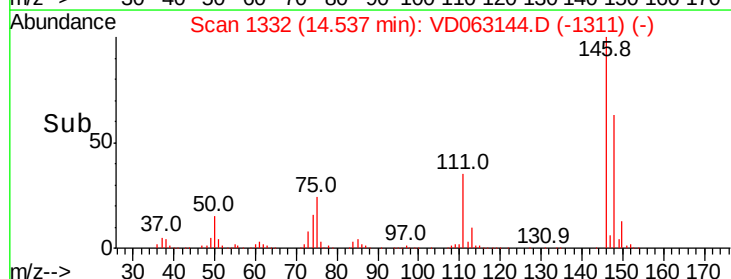
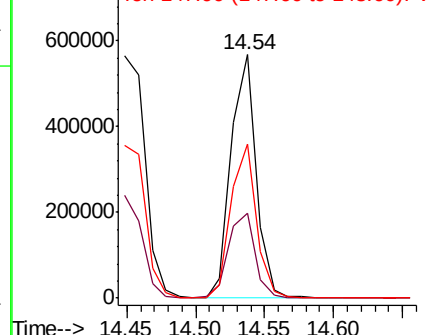


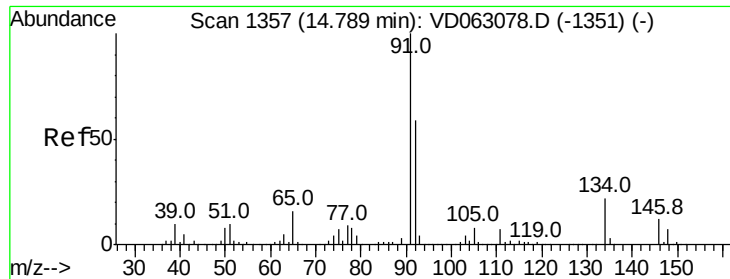
#88
 1,4-Dichlorobenzene
 Concen: 52.547 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.9	17.0	51.0
148	63.1	32.0	96.2



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 52.483 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD063144.D

Acq: 17 Jul 2019 21:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1326398

Ion Ratio Lower Upper

91 100

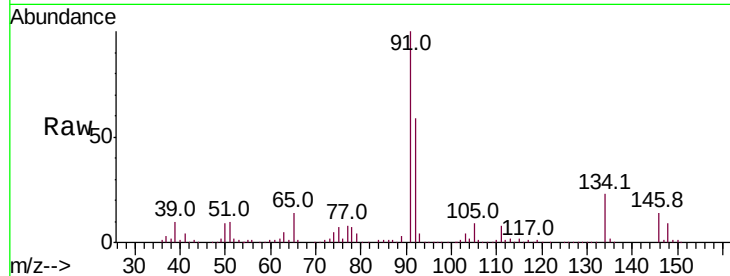
92 58.8 29.4 88.3

134 22.7 11.3 33.8

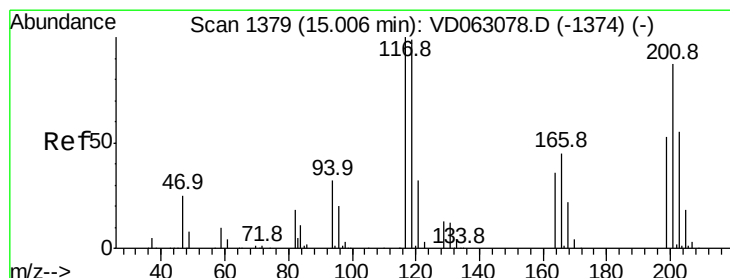
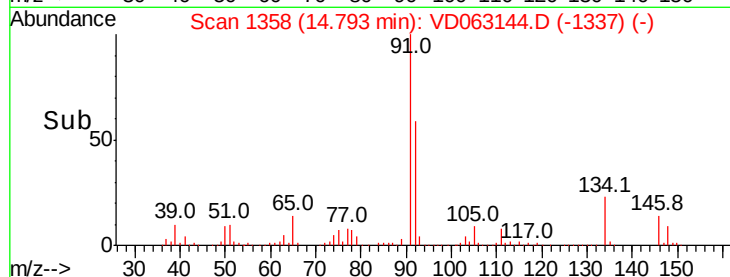
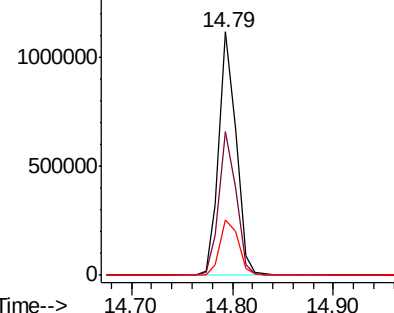
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Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 56.408 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD063144.D

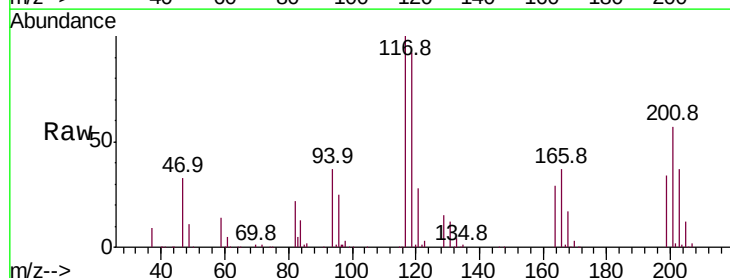
Acq: 17 Jul 2019 21:10

Tgt Ion: 117 Resp: 413469

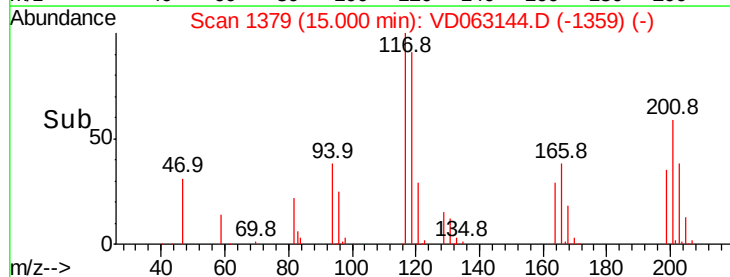
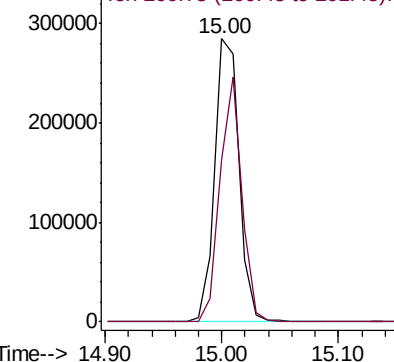
Ion Ratio Lower Upper

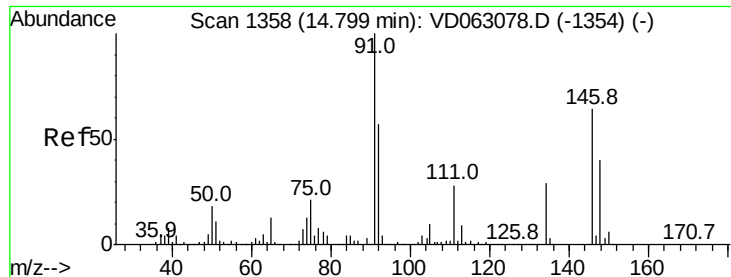
117 100

201 57.3 43.4 130.1



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





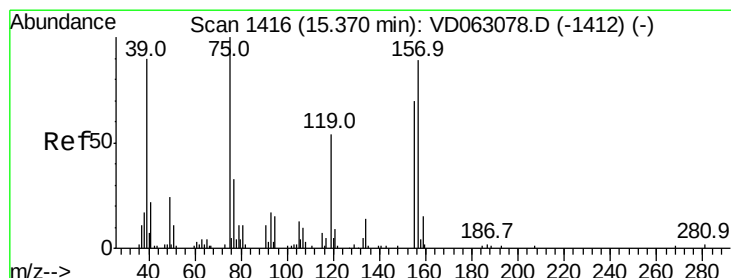
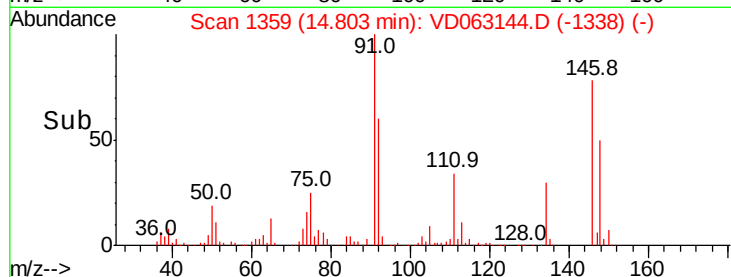
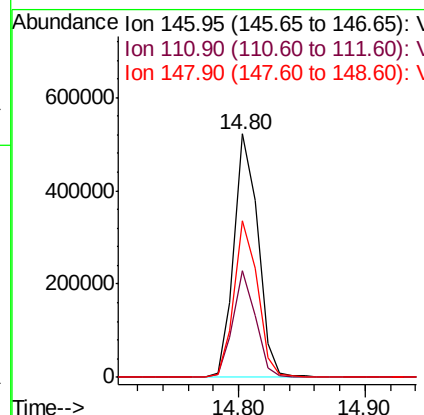
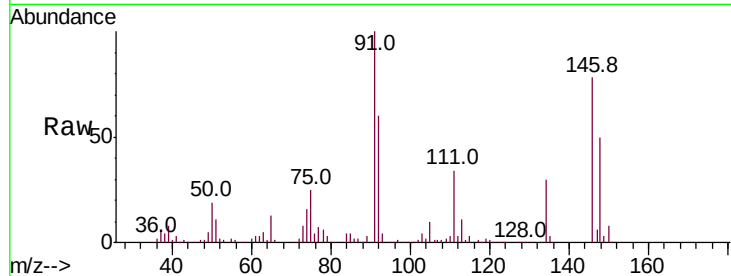
#91
 1,2-Dichlorobenzene
 Concen: 54.052 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.9	65.5
148	64.3	31.5	94.5

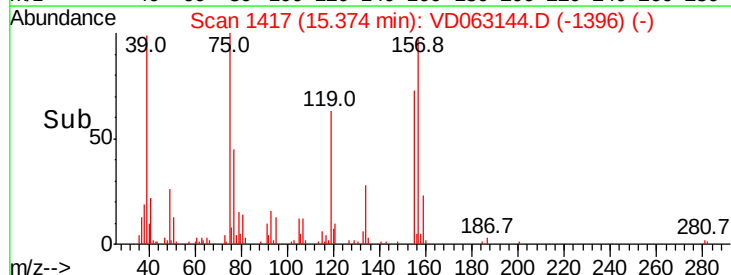
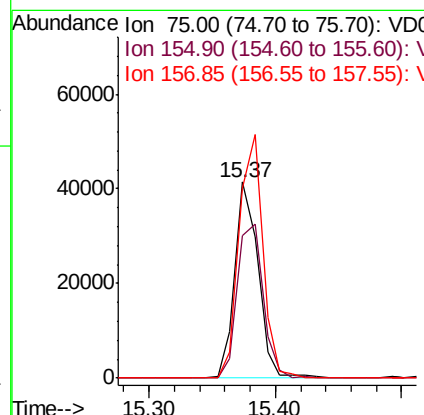
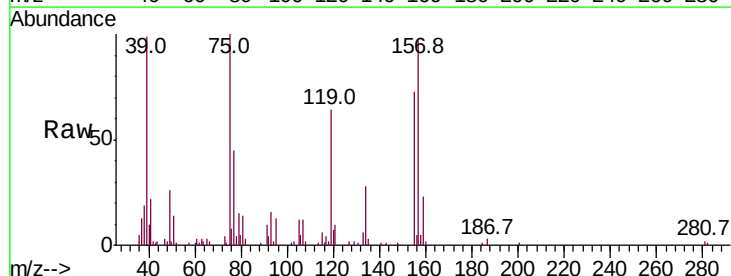
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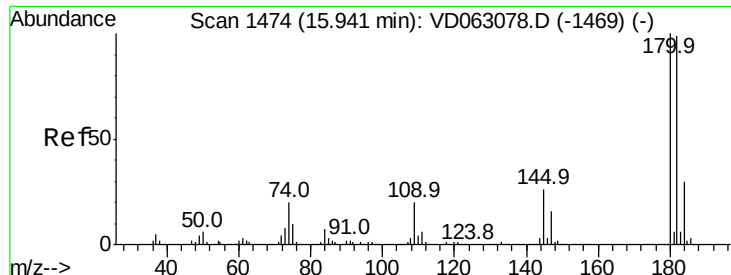
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.810 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.7	34.8	104.3
157	96.8	44.7	134.1





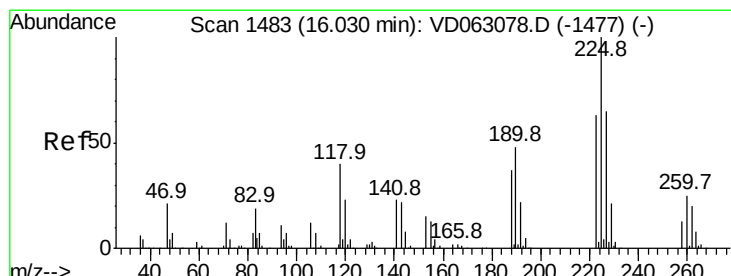
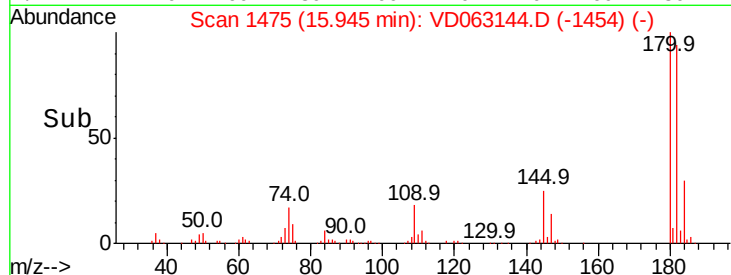
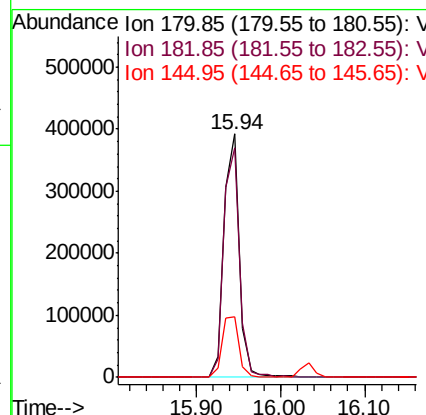
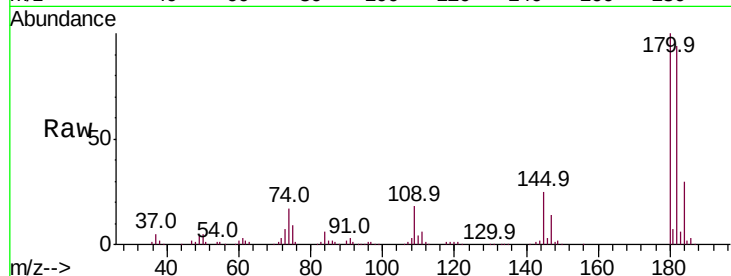
#93
 1,2,4-Trichlorobenzene
 Concen: 52.354 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	497930		
182	94.0	49.5	148.3	
145	25.0	12.8	38.4	

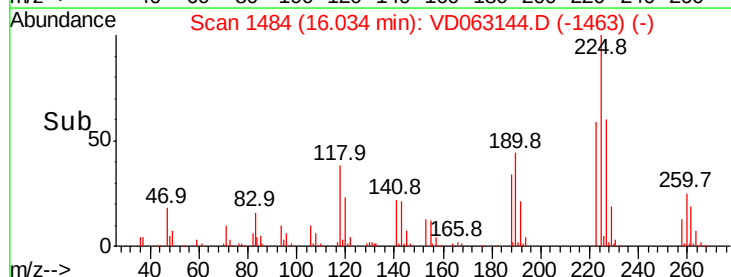
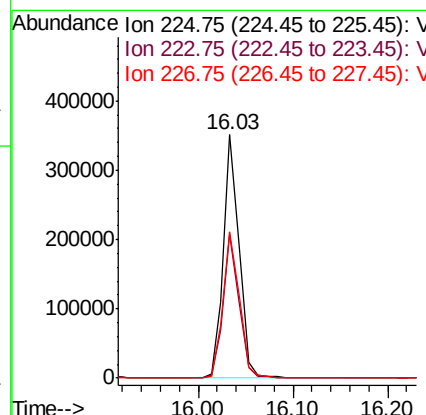
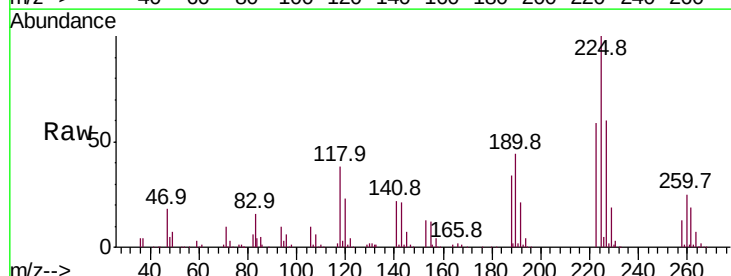
Manual Integrations
 APPROVED

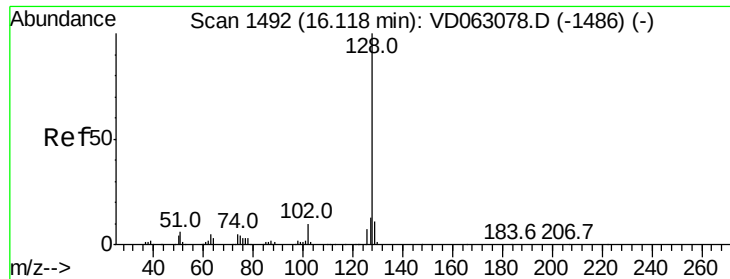
MMDadoda
 7/18/2019 10:01:35 AM



#94
 Hexachlorobutadiene
 Concen: 57.652 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD063144.D
 Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	404160		
223	59.3	31.4	94.2	
227	60.3	32.6	97.8	





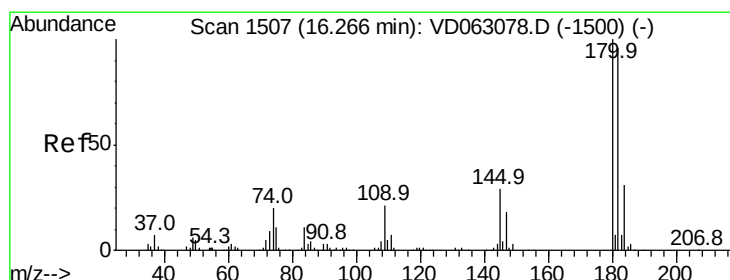
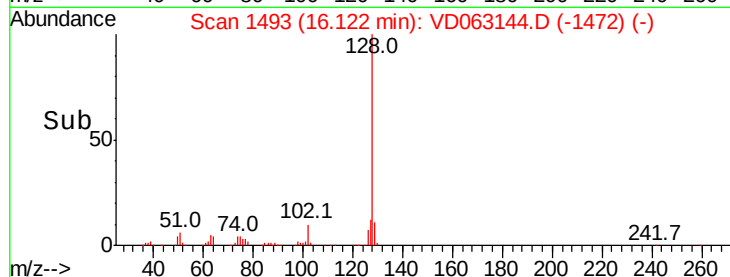
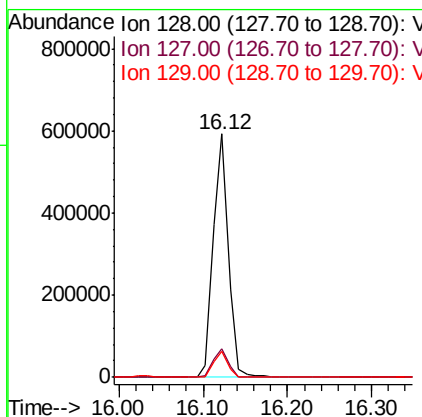
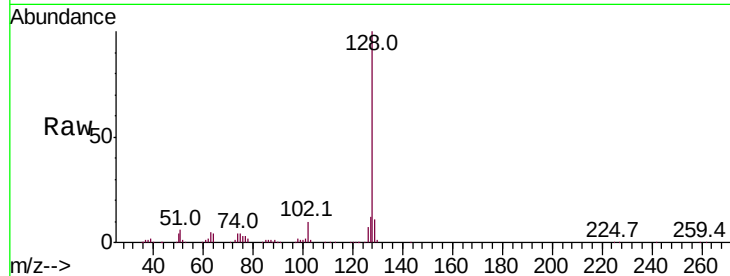
#95
Naphthalene
Concen: 53.221 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.7	16.1
129	10.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/18/2019 10:01:35 AM



#96
1,2,3-Trichlorobenzene
Concen: 58.143 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063144.D
Acq: 17 Jul 2019 21:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.8	47.9	143.6
145	27.9	14.4	43.4

