

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012120\
 Data File : VD064904.D
 Acq On : 21 Jan 2020 11:19
 Operator : VA/SY
 Sample : VD0121SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/22/2020 10:49:30 AM

Quant Time: Jan 22 06:09:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	341492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	505057	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	453706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	227741	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	160139	53.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.36%	
35) Dibromofluoromethane	7.92	113	154173	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
50) Toluene-d8	10.34	98	554960	46.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.52%	
62) 4-Bromofluorobenzene	12.64	95	183824	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.99	85	52724	19.867	ug/l	94
3) Chloromethane	2.21	50	82992	22.360	ug/l	99
4) Vinyl Chloride	2.35	62	97808	21.613	ug/l	98
5) Bromomethane	2.77	94	66126	20.096	ug/l	93
6) Chloroethane	2.92	64	64346	21.220	ug/l	97
7) Trichlorofluoromethane	3.27	101	158172	20.758	ug/l	95
8) Diethyl Ether	3.71	74	35608	23.532	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.08	101	74082	23.475	ug/l	99
10) Methyl Iodide	4.30	142	70314	20.743	ug/l	98
11) Tert butyl alcohol	5.25	59	24728	143.288	ug/l #	88
12) 1,1-Dichloroethene	4.06	96	67886	22.596	ug/l	98
13) Acrolein	3.93	56	18856	78.400	ug/l	96
14) Allyl chloride	4.71	41	111094	23.717	ug/l	97
15) Acrylonitrile	5.43	53	79140	125.564	ug/l	97
16) Acetone	4.17	43	79664	120.335	ug/l #	86
17) Carbon Disulfide	4.40	76	200932	20.683	ug/l	100
18) Methyl Acetate	4.72	43	40855	24.099	ug/l	100
19) Methyl tert-butyl Ether	5.49	73	157526	23.606	ug/l	97
20) Methylene Chloride	4.97	84	106706	32.985	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	77833	22.748	ug/l	99
22) Diisopropyl ether	6.37	45	228296	24.435	ug/l	95
23) Vinyl Acetate	6.31	43	625704	118.058	ug/l	99
24) 1,1-Dichloroethane	6.27	63	135755	24.203	ug/l #	94
25) 2-Butanone	7.23	43	100765	121.739	ug/l	98
26) 2,2-Dichloropropane	7.21	77	126399	24.238	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	85517	23.159	ug/l	100
28) Bromochloromethane	7.55	49	48175	22.095	ug/l	96
29) Tetrahydrofuran	7.57	42	61133	118.766	ug/l	97
30) Chloroform	7.71	83	146293	24.860	ug/l	99
31) Cyclohexane	7.98	56	124666	22.204	ug/l #	92
32) 1,1,1-Trichloroethane	7.91	97	132460	23.965	ug/l	98
36) 1,1-Dichloropropene	8.11	75	110287	22.687	ug/l	98
37) Ethyl Acetate	7.30	43	47562	24.905	ug/l	99
38) Carbon Tetrachloride	8.10	117	119267	23.009	ug/l	97

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 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	128736	21.865	ug/l	96
40) Benzene	8.36	78	304375	22.936	ug/l	98
41) Methacrylonitrile	7.53	41	16982m	15.326	ug/l	
42) 1,2-Dichloroethane	8.43	62	94162	24.554	ug/l	97
43) Isopropyl Acetate	8.46	43	89510	23.548	ug/l	99
44) Trichloroethene	9.11	130	86318	22.142	ug/l	98
45) 1,2-Dichloropropane	9.39	63	76080	24.011	ug/l	99
46) Dibromomethane	9.48	93	42066	23.813	ug/l	98
47) Bromodichloromethane	9.67	83	110771	23.565	ug/l	96
48) Methyl methacrylate	9.46	41	41537	23.208	ug/l	94
49) 1,4-Dioxane	9.47	88	8984	441.053	ug/l #	91
51) 4-Methyl-2-Pentanone	10.23	43	220525	117.375	ug/l	99
52) Toluene	10.41	92	199930	22.964	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	101254	23.104	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	121796	23.569	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	56643	23.792	ug/l	94
56) Ethyl methacrylate	10.67	69	66528	22.376	ug/l	96
57) 1,3-Dichloropropane	10.95	76	96861	23.630	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.95	63	137312	121.218	ug/l	96
59) 2-Hexanone	10.99	43	153636	120.481	ug/l	99
60) Dibromochloromethane	11.14	129	77856	23.649	ug/l	98
61) 1,2-Dibromoethane	11.25	107	54472	23.198	ug/l	99
64) Tetrachloroethene	10.88	164	74694	21.459	ug/l	98
65) Chlorobenzene	11.68	112	211436	22.454	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.75	131	80094	22.562	ug/l	99
67) Ethyl Benzene	11.75	91	376879	22.050	ug/l	99
68) m/p-Xylenes	11.86	106	286069	43.363	ug/l	97
69) o-Xylene	12.18	106	126875	21.292	ug/l	100
70) Styrene	12.20	104	231783	22.160	ug/l	98
71) Bromoform	12.37	173	45590	22.520	ug/l #	98
73) Isopropylbenzene	12.48	105	350230	21.520	ug/l	100
74) N-amyl acetate	12.30	43	77229	22.199	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	60857	23.804	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	31843m	17.706	ug/l	
77) Bromobenzene	12.77	156	86991	21.753	ug/l	96
78) n-propylbenzene	12.83	91	414696	21.841	ug/l	100
79) 2-Chlorotoluene	12.91	91	230472	22.097	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	292098	21.849	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	20261	23.563	ug/l	99
82) 4-Chlorotoluene	13.01	91	245643	22.131	ug/l	100
83) tert-Butylbenzene	13.23	119	242809	20.918	ug/l	96
84) 1,2,4-Trimethylbenzene	13.28	105	285817	21.466	ug/l	100
85) sec-Butylbenzene	13.41	105	346545	21.777	ug/l	98
86) p-Isopropyltoluene	13.53	119	323094	21.233	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	168589	22.115	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	161794	21.604	ug/l	97
89) n-Butylbenzene	13.85	91	294972	21.526	ug/l	99
90) Hexachloroethane	14.12	117	64611	22.229	ug/l	95
91) 1,2-Dichlorobenzene	13.90	146	142587	21.935	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.52	75	9404	22.690	ug/l	93

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ALS Vial : 5 Sample Multiplier: 1

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MSVOA_D
ClientSampleId :
VD0121SBSD01

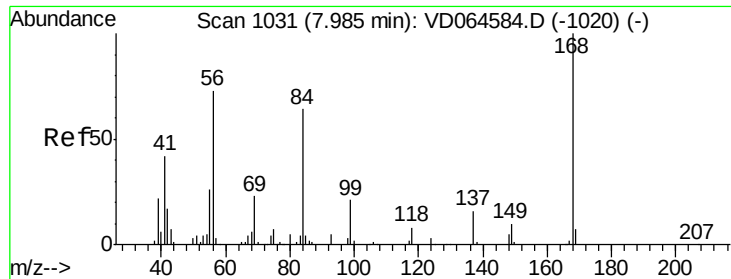
Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:30 AM

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	100973	21.096	ug/l	98
94) Hexachlorobutadiene	15.28	225	62212	20.655	ug/l	96
95) Naphthalene	15.41	128	155215	20.498	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	87429	21.396	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:168 Resp: 341492

Ion Ratio Lower Upper

168 100

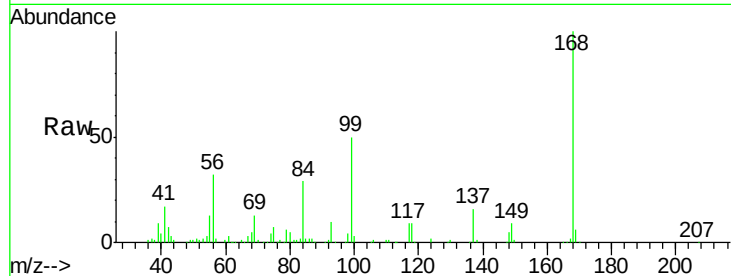
99 50.0 41.8 62.6

Manual Integrations

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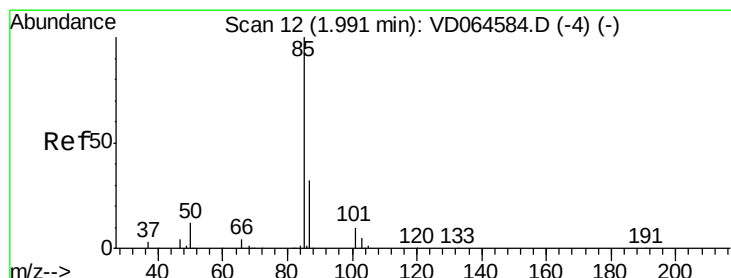
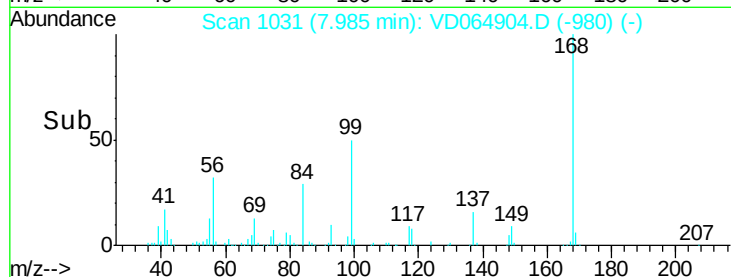
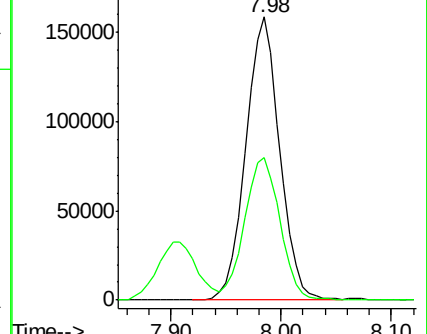
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 19.867 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064904.D

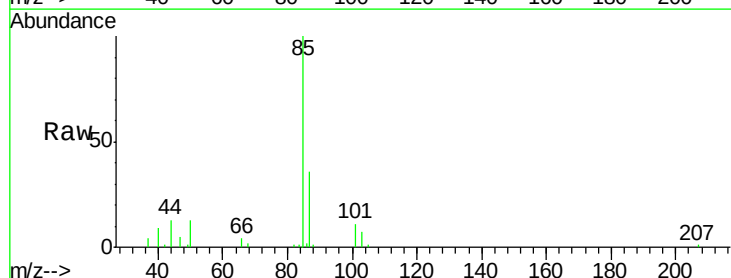
Acq: 21 Jan 2020 11:19

Tgt Ion: 85 Resp: 52724

Ion Ratio Lower Upper

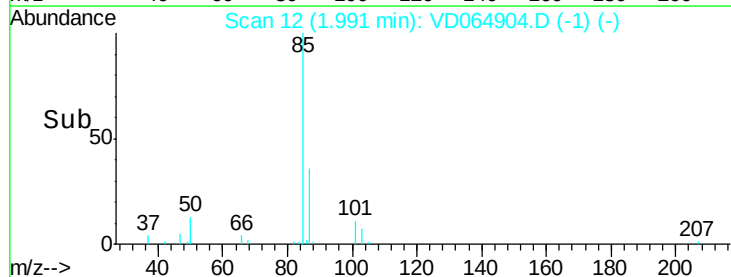
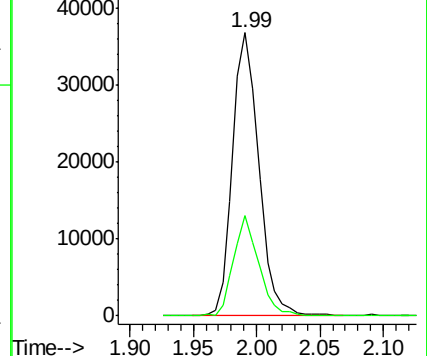
85 100

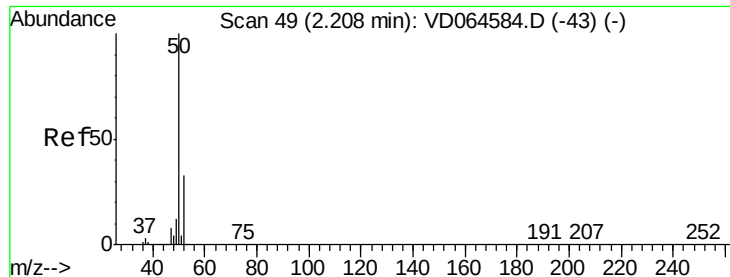
87 35.5 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.360 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 50 Resp: 82992

Ion Ratio Lower Upper

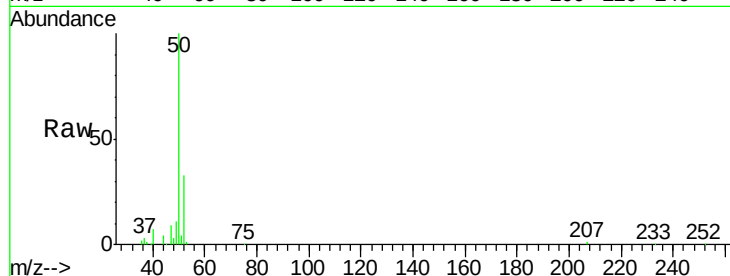
50 100

52 32.7 26.5 39.7

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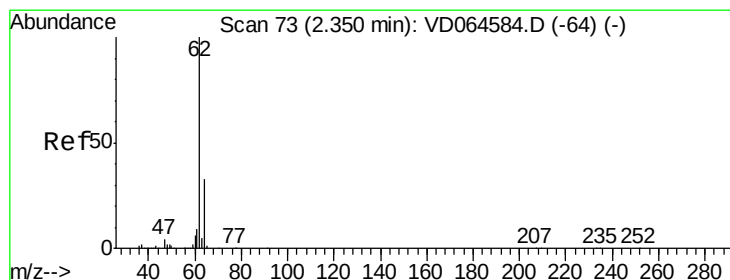
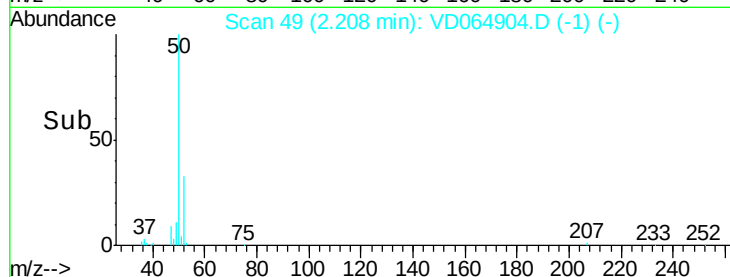
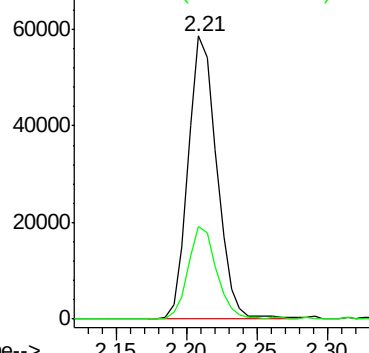
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.613 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064904.D

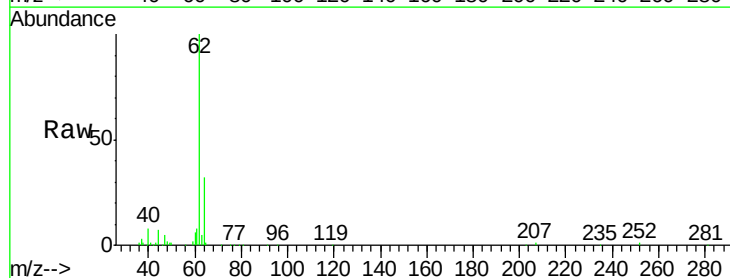
Acq: 21 Jan 2020 11:19

Tgt Ion: 62 Resp: 97808

Ion Ratio Lower Upper

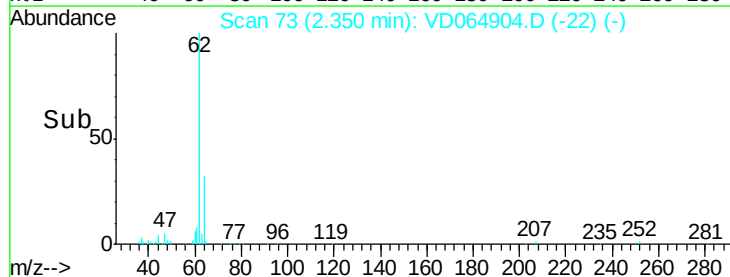
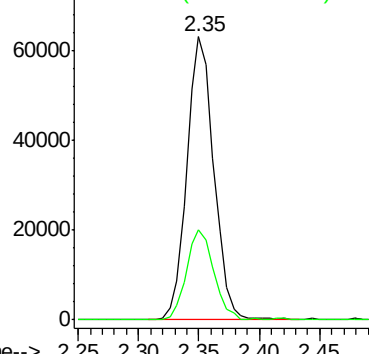
62 100

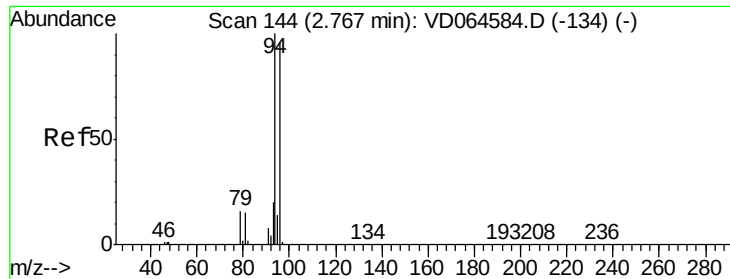
64 32.0 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.096 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 94 Resp: 66126

Ion Ratio Lower Upper

94 100

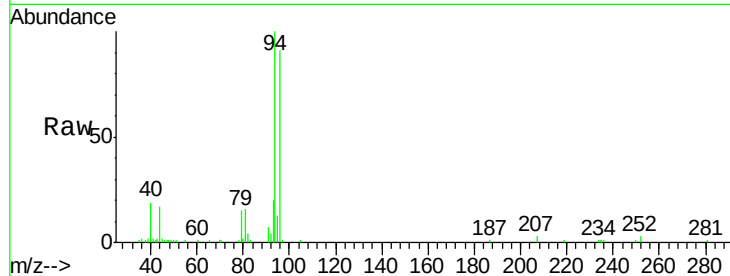
96 90.1 77.2 115.8

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

30000

25000

20000

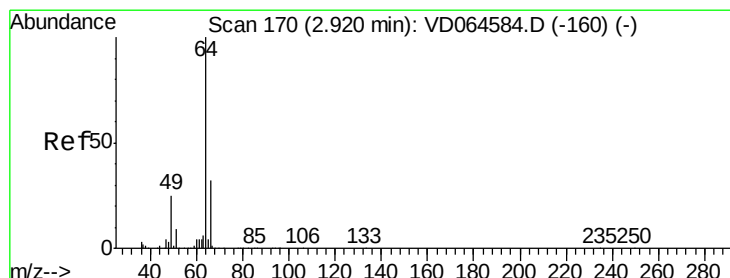
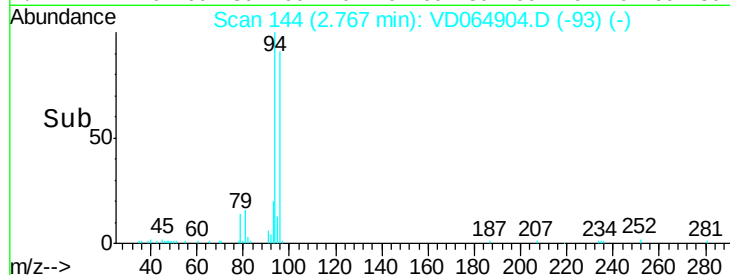
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 21.220 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064904.D

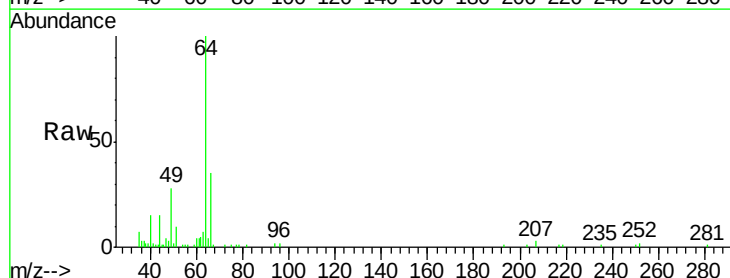
Acq: 21 Jan 2020 11:19

Tgt Ion: 64 Resp: 64346

Ion Ratio Lower Upper

64 100

66 34.3 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.92

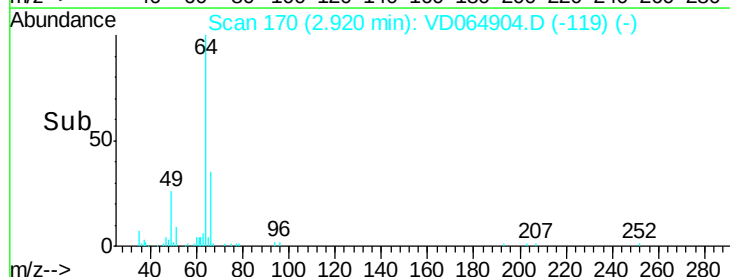
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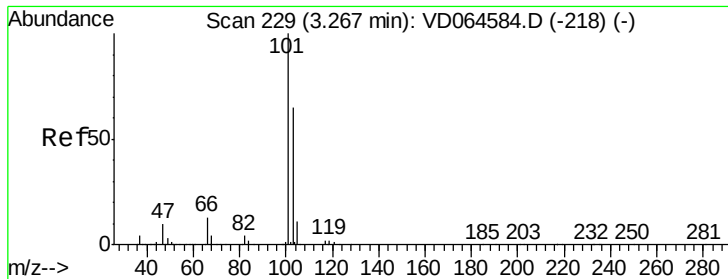
20000

10000

0

Time-->





#7

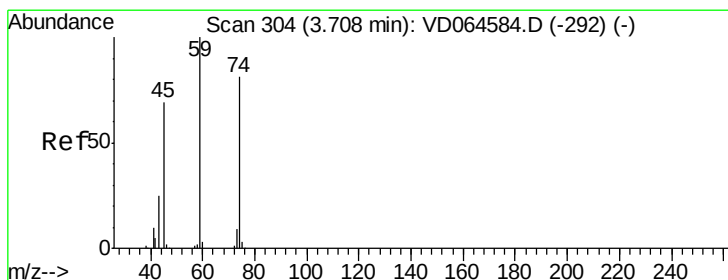
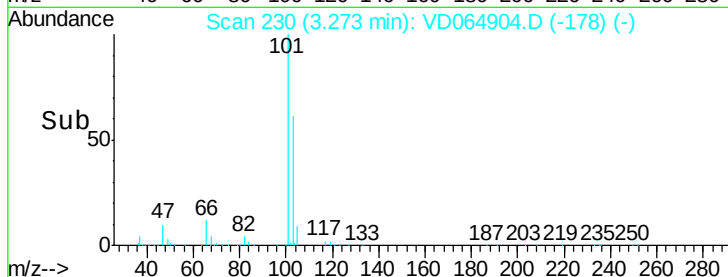
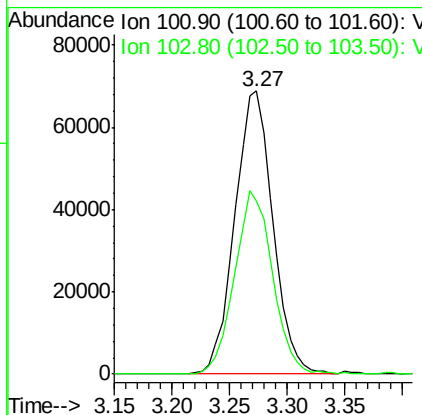
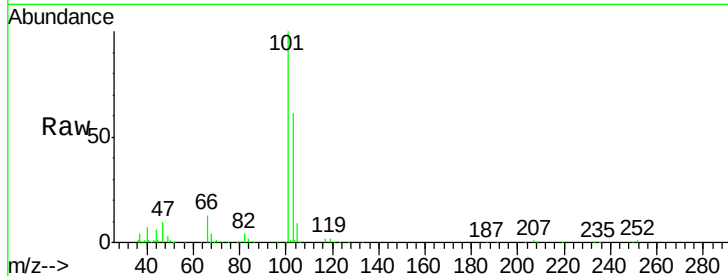
Trichlorofluoromethane
 Concen: 20.758 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
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 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.3	52.2	78.4

Manual Integrations
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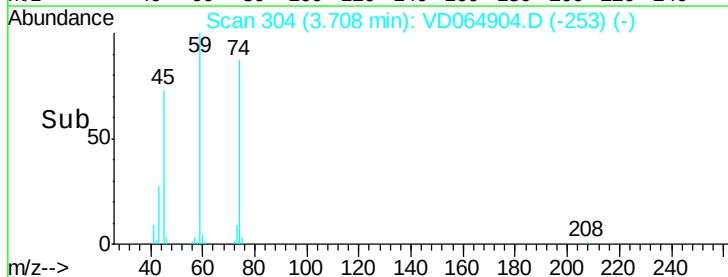
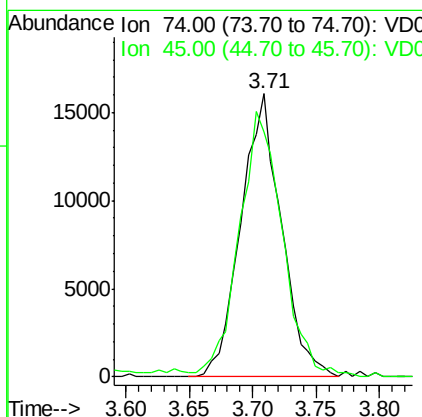
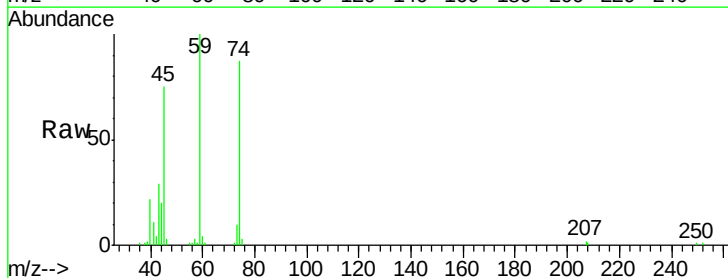
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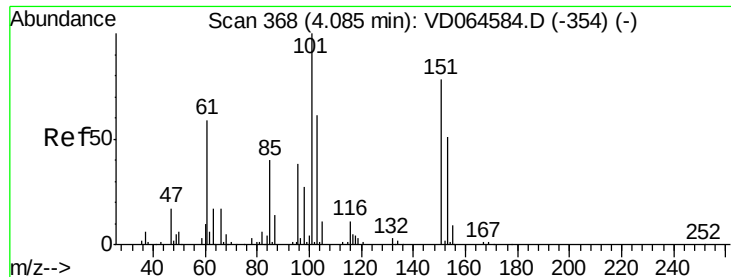


#8

Diethyl Ether
 Concen: 23.532 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.3	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.475 ug/l

RT: 4.08 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

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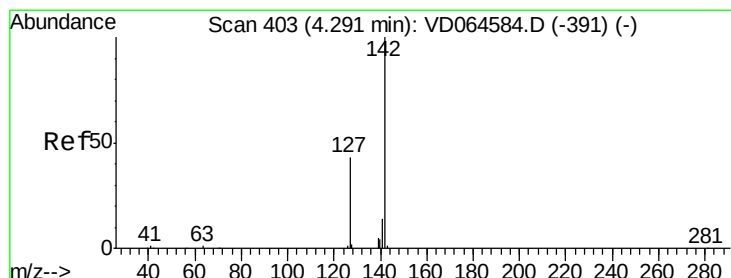
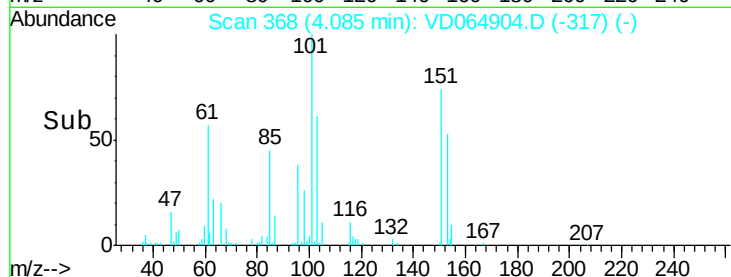
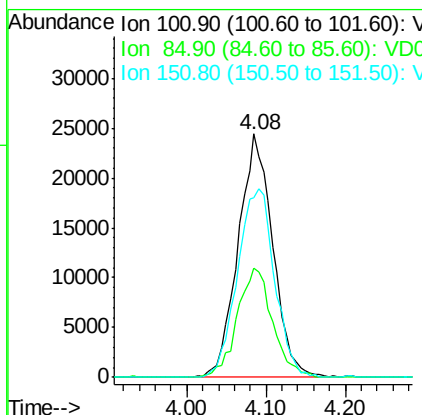
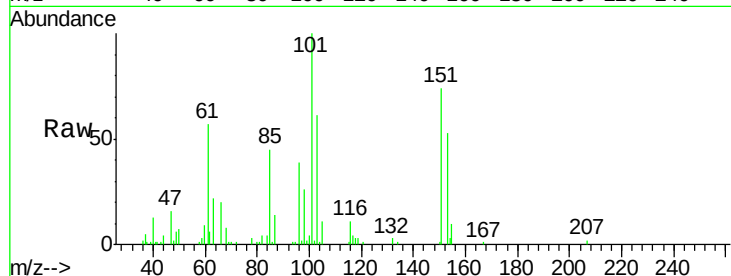
ClientSampleId :

VD0121SBS01

Tot Ion:	101	Resp:	74082
Ion Ratio	Lower	Upper	
101	100		
85	45.6	35.2	52.8
151	83.0	66.2	99.4

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#10

Methyl Iodide

Concen: 20.743 ug/l

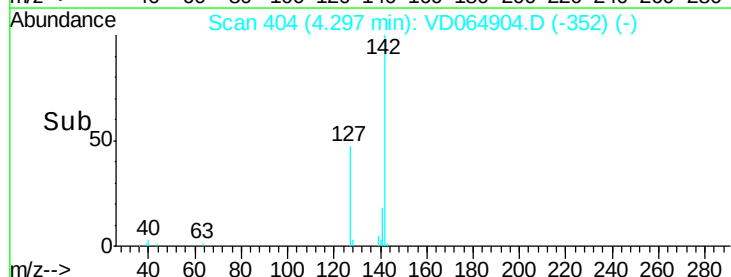
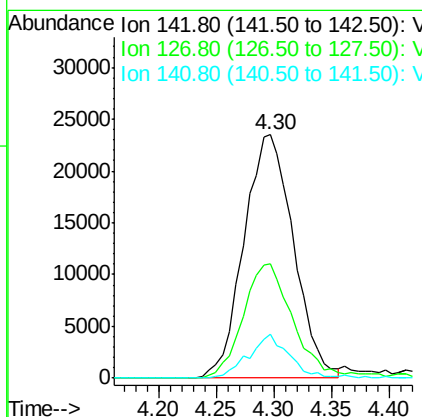
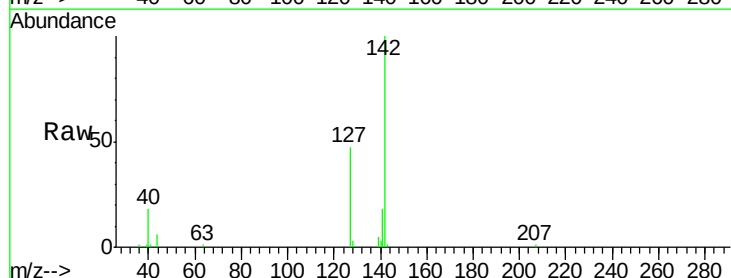
RT: 4.30 min Scan# 404

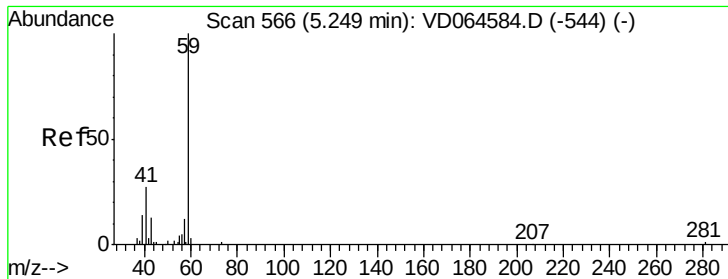
Delta R.T. 0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	142	Resp:	70314
Ion Ratio	Lower	Upper	
142	100		
127	46.5	36.2	54.4
141	14.4	11.8	17.8





#11

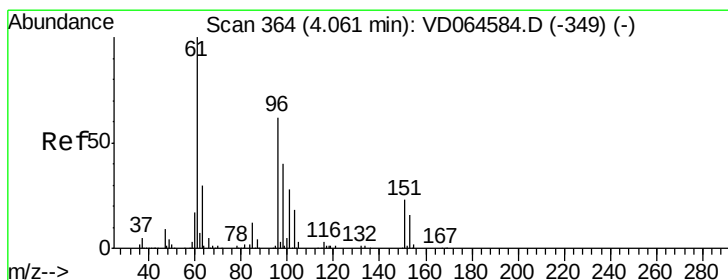
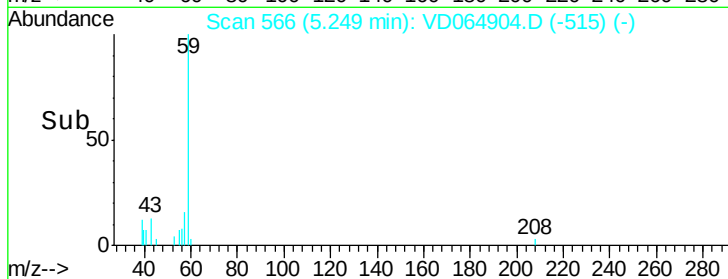
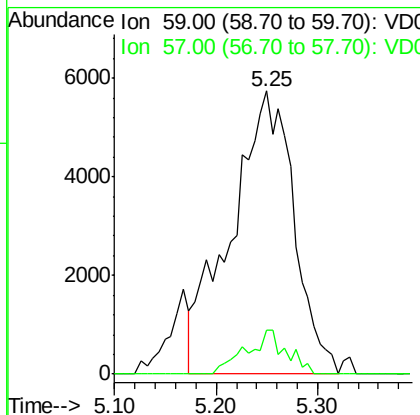
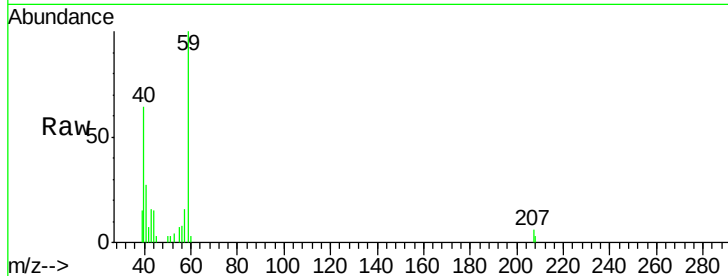
Tert butyl alcohol
Concen: 143.288 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.9	9.3	13.9#

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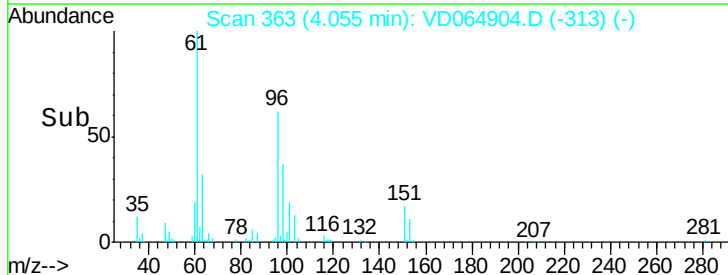
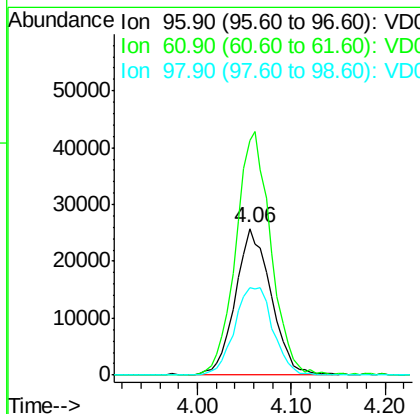
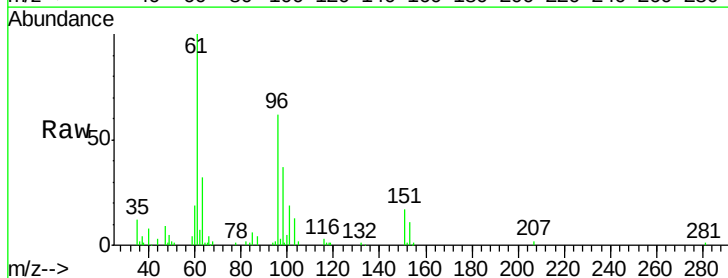
MMDadoda
1/22/2020 10:49:30 AM

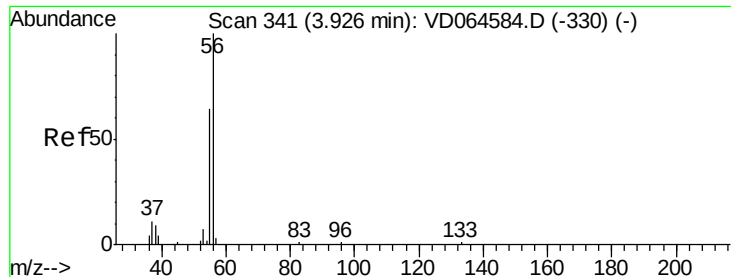


#12

1,1-Dichloroethene
Concen: 22.596 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.6	129.4	194.0
98	59.6	51.4	77.0





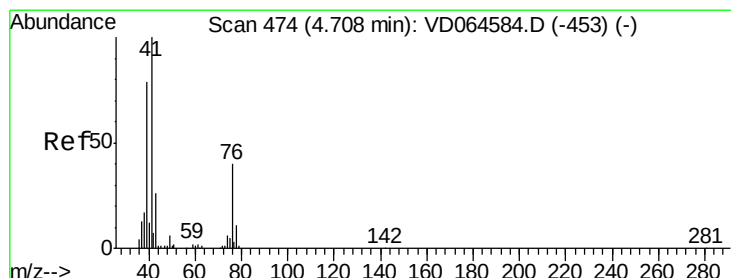
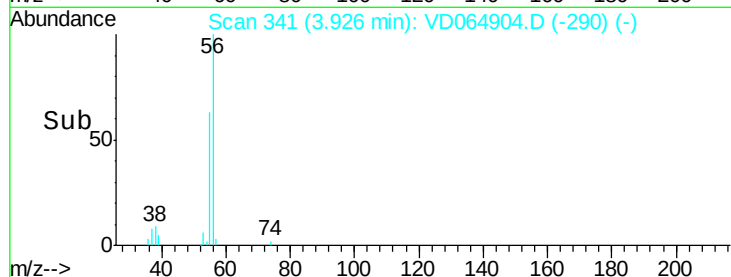
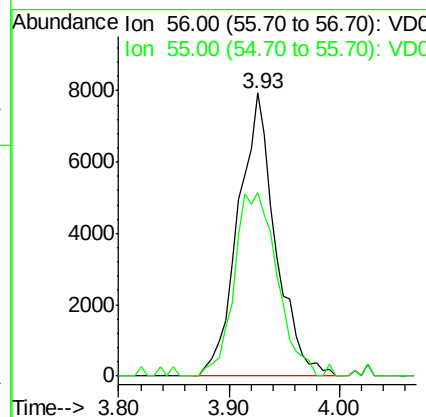
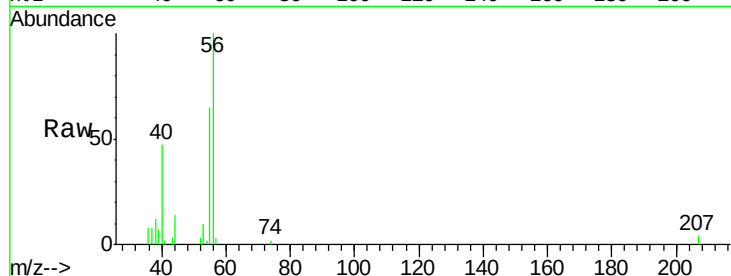
#13
Acrolein
Concen: 78.400 ug/l
RT: 3.93 min Scan# 341
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion	56	Resp	18856
Ion Ratio	100	Lower	Upper
55	74.2	56.7	85.1

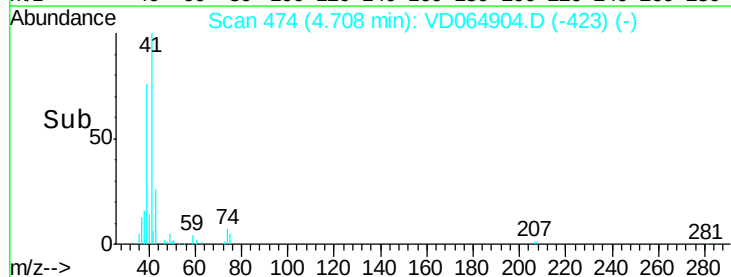
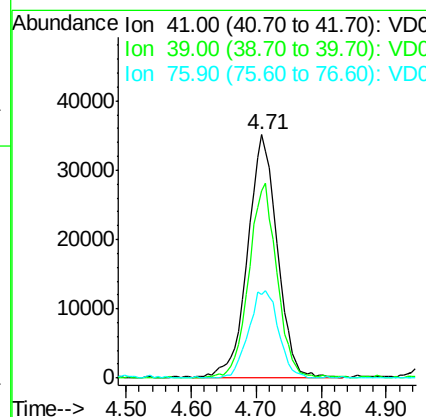
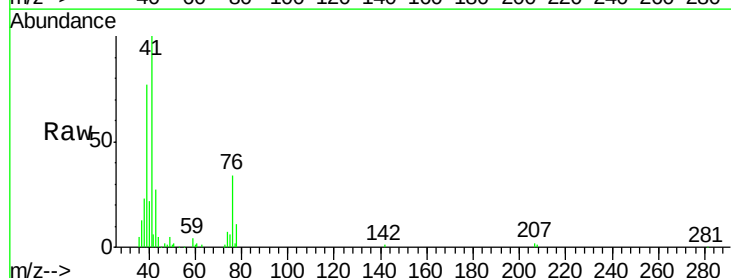
Manual Integrations
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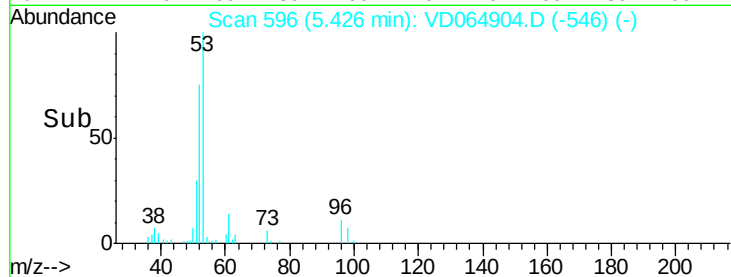
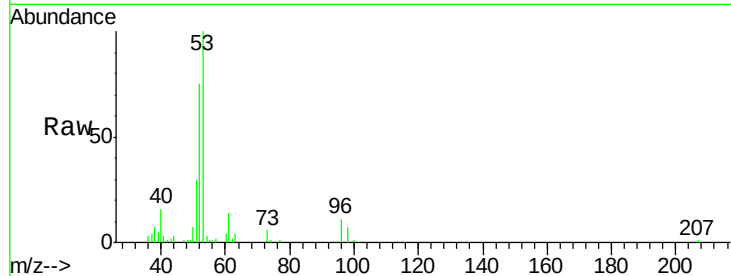
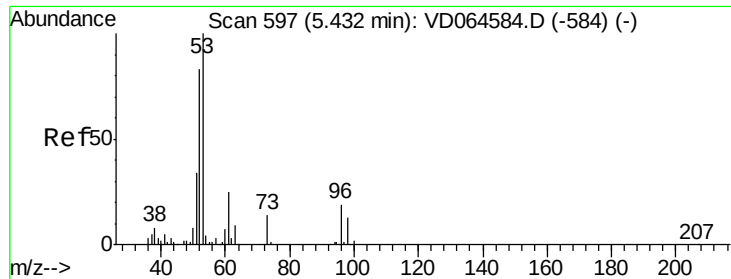
MMDadoda
1/22/2020 10:49:30 AM



#14
Allyl chloride
Concen: 23.717 ug/l
RT: 4.71 min Scan# 474
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	41	Resp	111094
Ion Ratio	100	Lower	Upper
39	75.4	62.3	93.5
76	36.1	29.7	44.5





#15

Acrylonitrile

Concen: 125.564 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tot Ion:	53	Resp:	79140
Ion Ratio	Lower	Upper	
53	100		
52	79.2	66.2	99.2
51	37.2	30.1	45.1

Instrument :

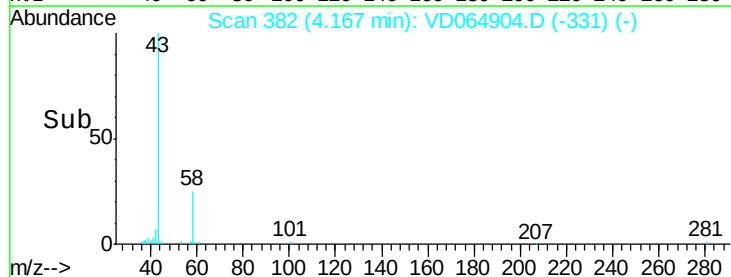
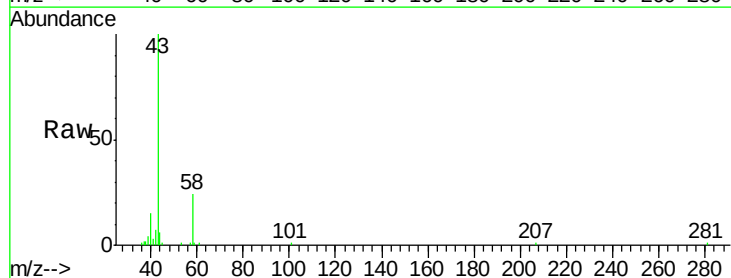
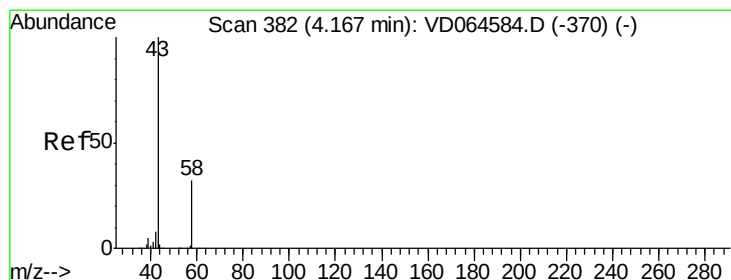
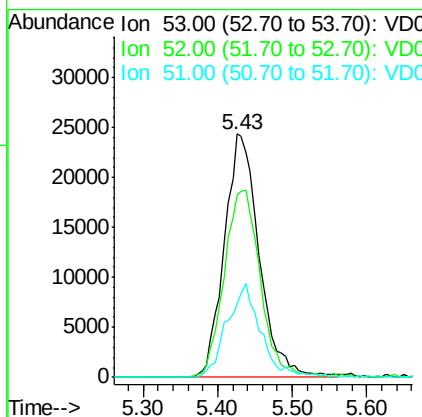
MSVOA_D

ClientSampleId :

VD0121SBS01

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#16

Acetone

Concen: 120.335 ug/l

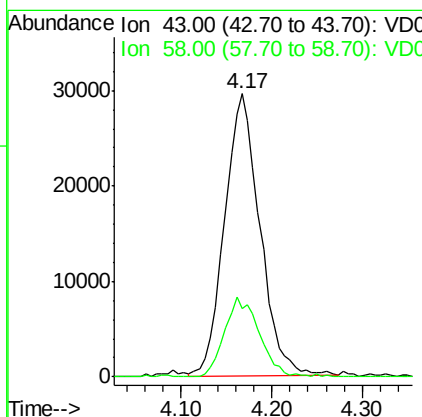
RT: 4.17 min Scan# 382

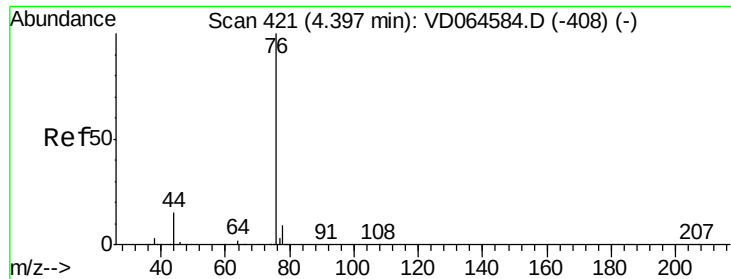
Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	43	Resp:	79664
Ion Ratio	Lower	Upper	
43	100		
58	24.5	25.8	38.6#





#17

Carbon Disulfide

Concen: 20.683 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBSD01

Tot Ion: 76 Resp: 200932

Ion Ratio Lower Upper

76 100

78 9.1

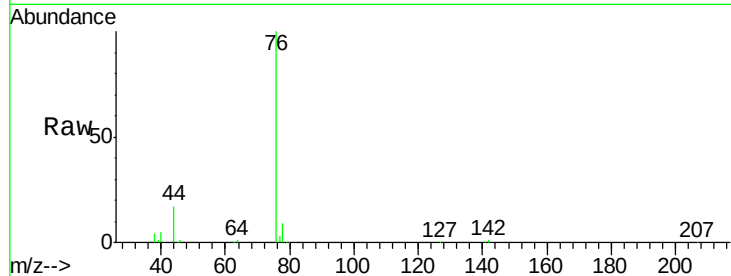
7.3 10.9

Manual Integrations

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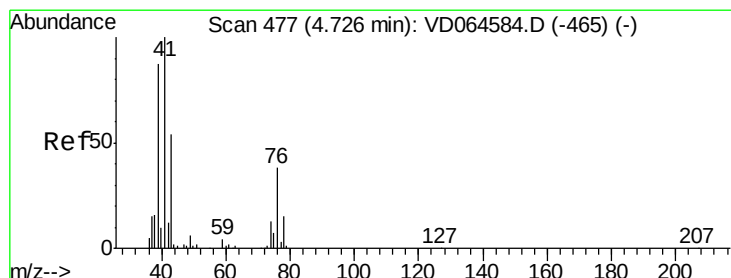
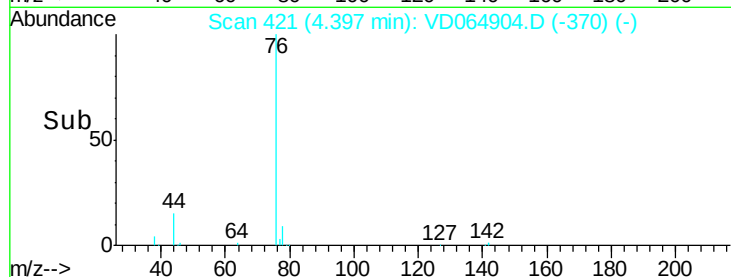
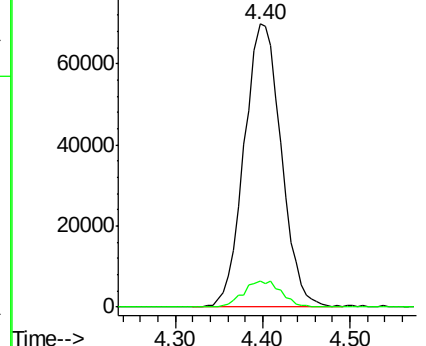
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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 24.099 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

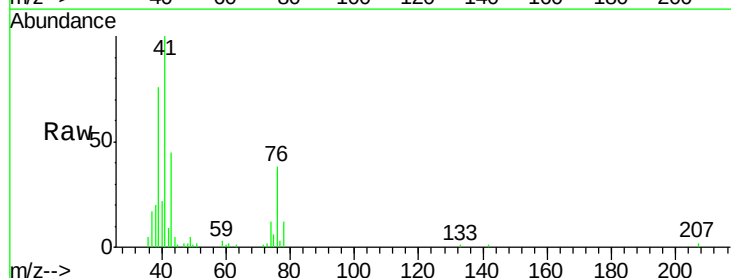
Tgt Ion: 43 Resp: 40855

Ion Ratio Lower Upper

43 100

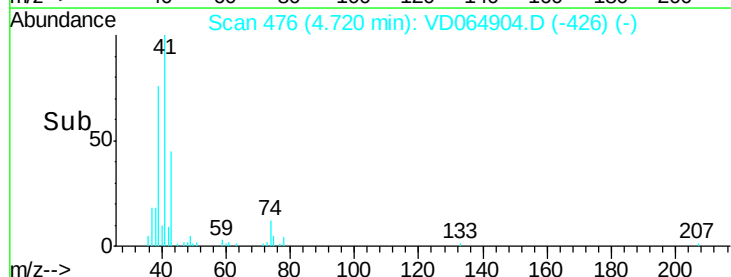
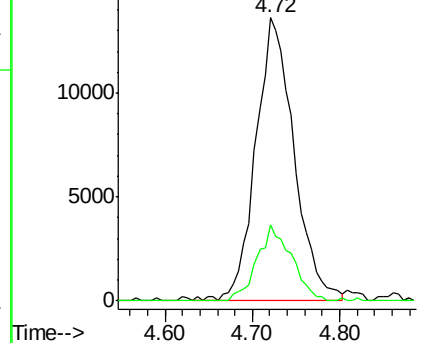
74 24.0

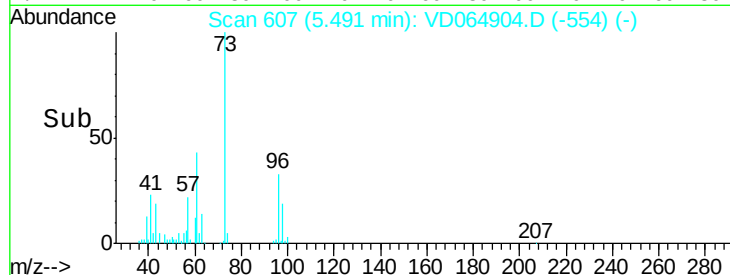
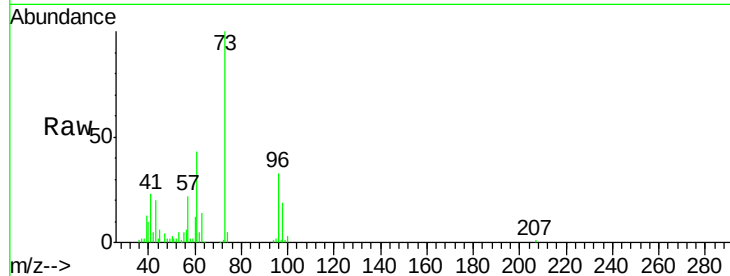
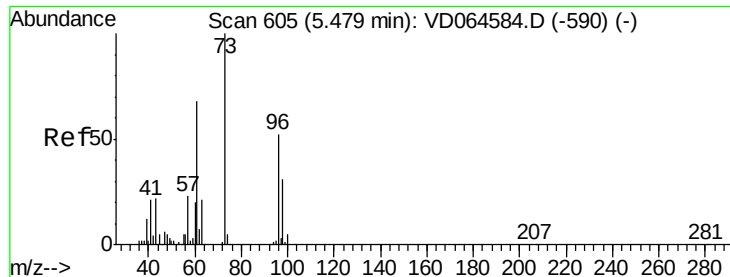
19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





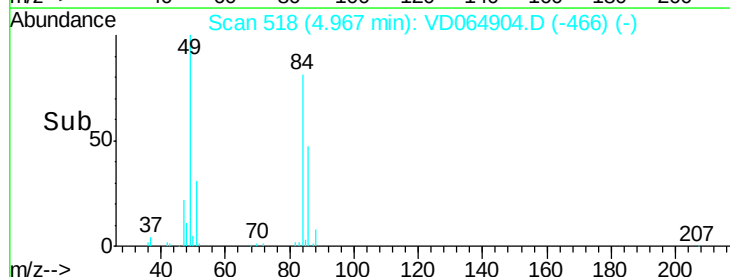
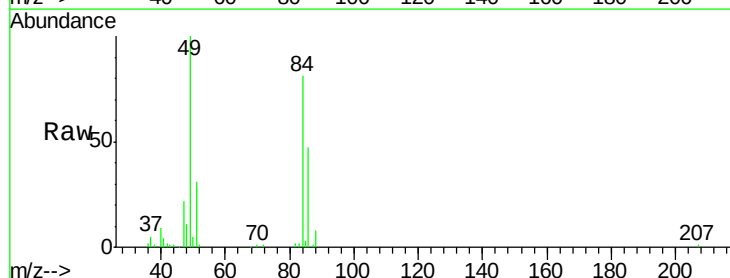
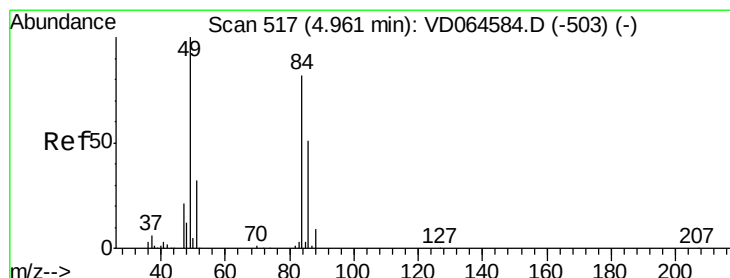
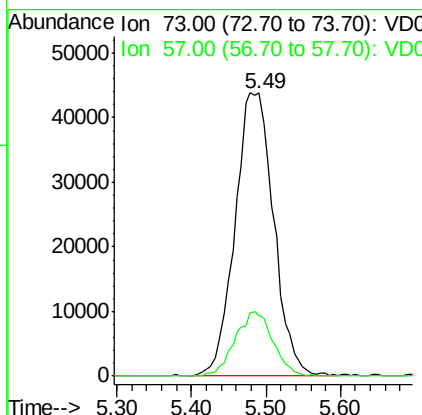
#19
Methyl tert-butyl Ether
Concen: 23.606 ug/l
RT: 5.49 min Scan# 607
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tot Ion	73	57	Ratio	100	21.6	Resp	157526	Lower	18.6	Upper	27.8
Ion	73	57	Ratio	100	21.6	Resp	157526	Lower	18.6	Upper	27.8

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

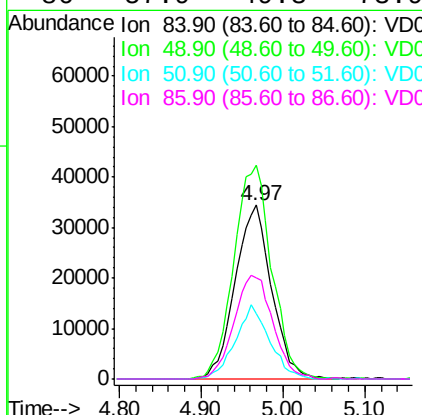
Manual Integrations
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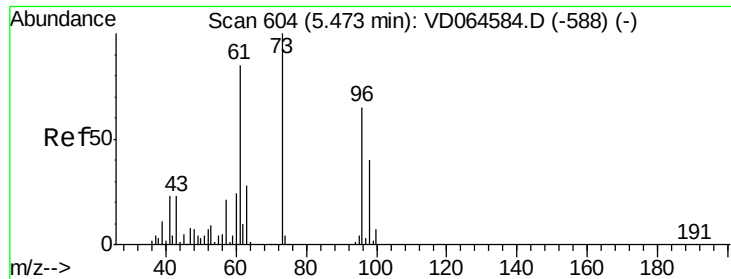
MMDadoda
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#20
Methylene Chloride
Concen: 32.985 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	84	49	51	86	Ratio	100	123.0	37.9	57.9	Resp	106706	Lower	97.2	31.4	49.3	Upper	145.8	47.0	73.9
Ion	84	49	51	86	Ratio	100	123.0	37.9	57.9	Resp	106706	Lower	97.2	31.4	49.3	Upper	145.8	47.0	73.9





#21

trans-1,2-Dichloroethene

Concen: 22.748 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

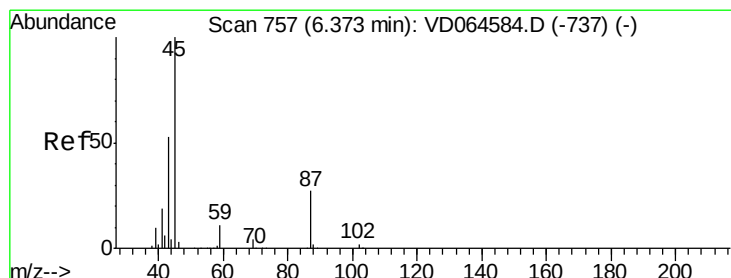
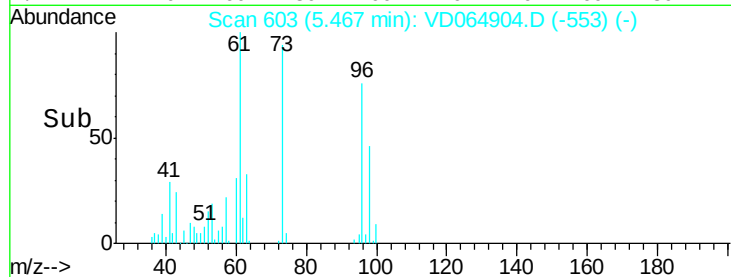
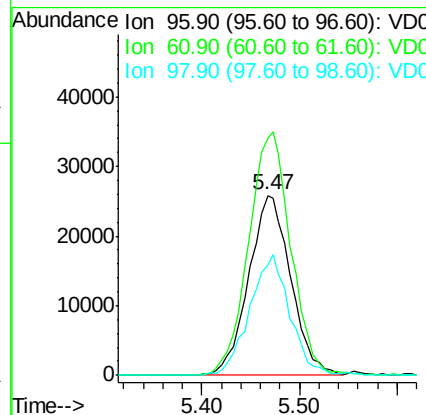
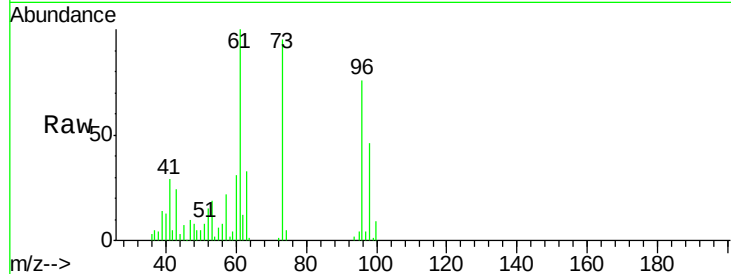
ClientSampleId :

VD0121SBS01

Tot Ion:	96	Resp:	77833
Ion	Ratio	Lower	Upper
96	100		
61	131.9	104.7	157.1
98	61.1	49.4	74.2

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#22

Diisopropyl ether

Concen: 24.435 ug/l

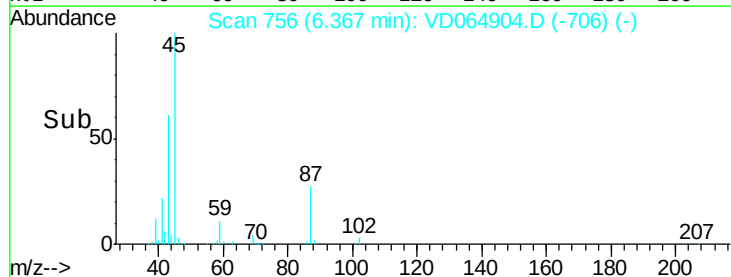
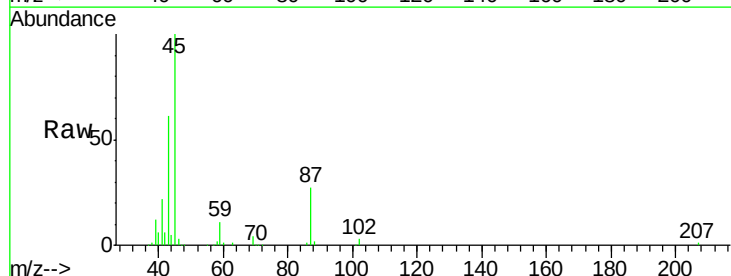
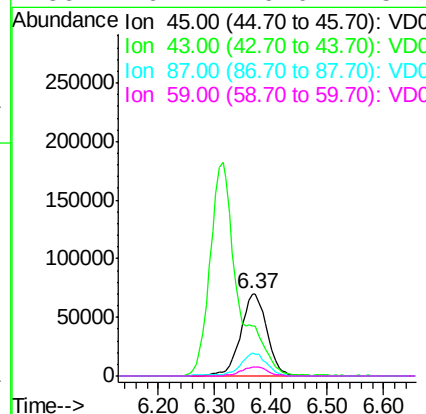
RT: 6.37 min Scan# 756

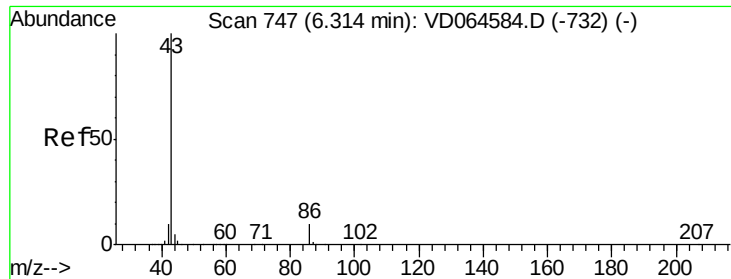
Delta R.T. -0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	45	Resp:	228296
Ion	Ratio	Lower	Upper
45	100		
43	60.2	43.2	64.8
87	27.2	21.9	32.9
59	10.7	9.0	13.4





#23

Vinyl Acetate

Concen: 118.058 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 43 Resp: 625704

Ion Ratio Lower Upper

43 100

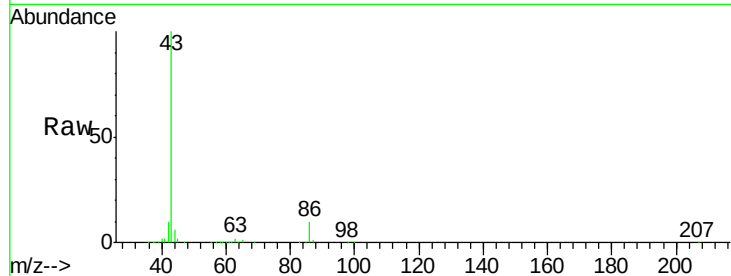
86 9.8 8.3 12.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

200000

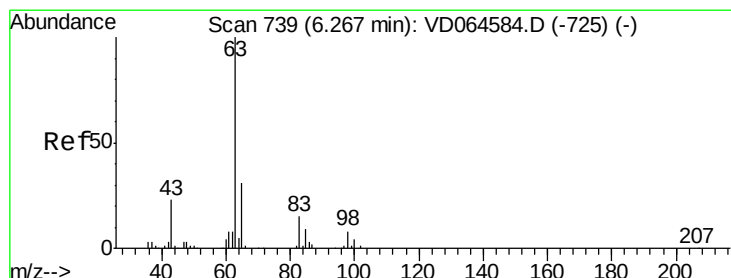
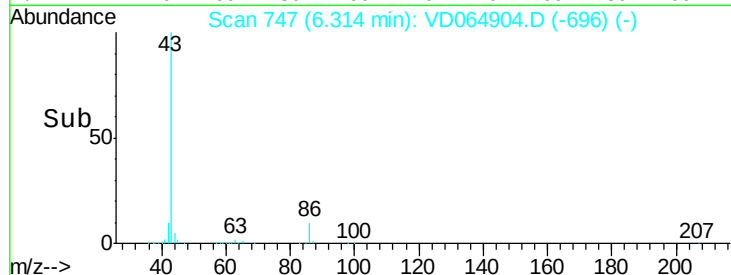
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 24.203 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

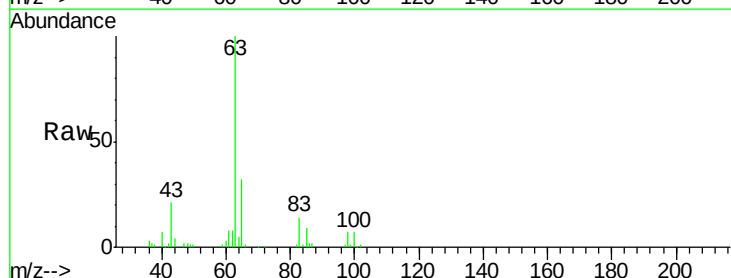
Tgt Ion: 63 Resp: 135755

Ion Ratio Lower Upper

63 100

98 6.5 4.1 12.3

100 6.9 2.2 6.6#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

60000

50000

40000

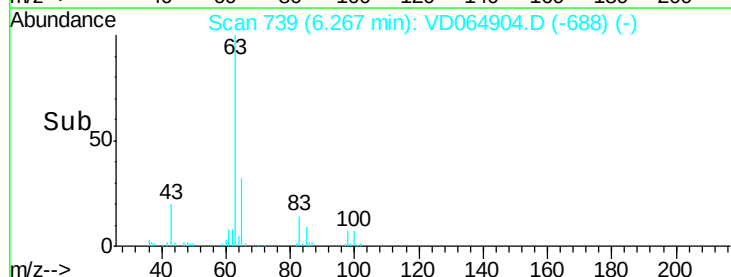
30000

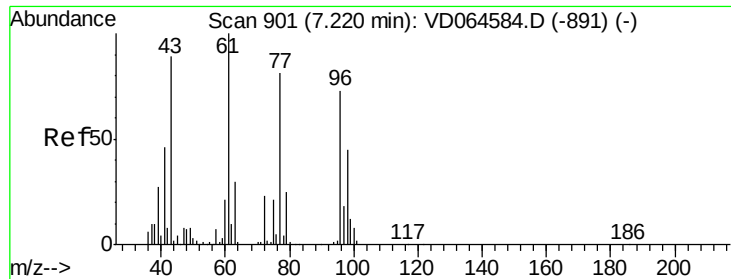
20000

10000

0

Time-->





#25

2-Butanone

Concen: 121.739 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 43 Resp: 100765

Ion Ratio Lower Upper

43 100

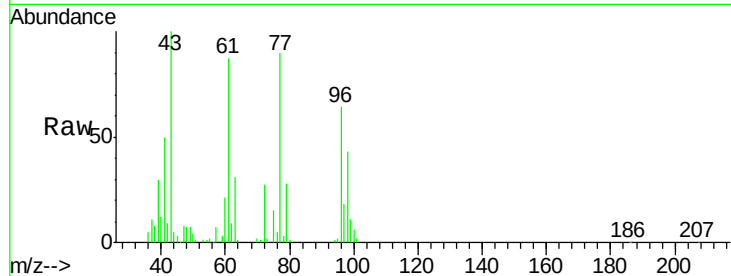
72 27.2 20.7 31.1

Manual Integrations

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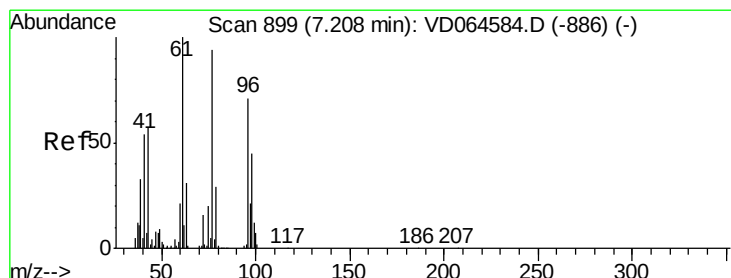
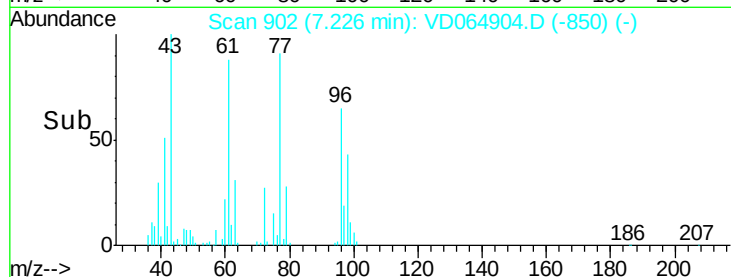
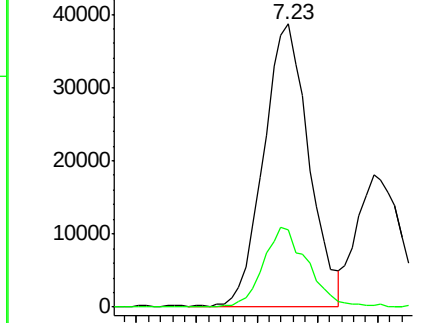
MMDadoda

1/22/2020 10:49:30 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 24.238 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064904.D

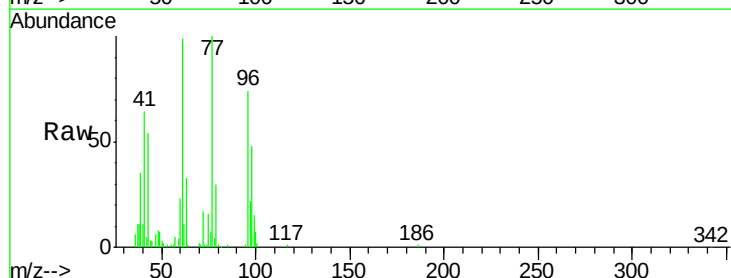
Acq: 21 Jan 2020 11:19

Tgt Ion: 77 Resp: 126399

Ion Ratio Lower Upper

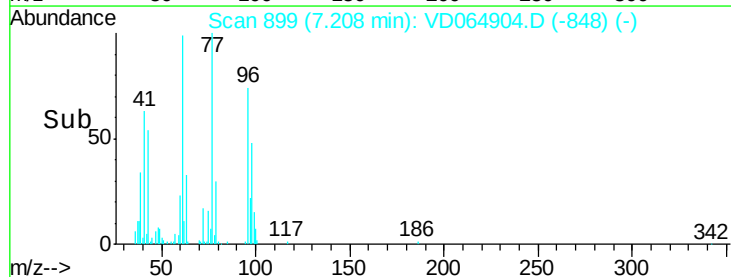
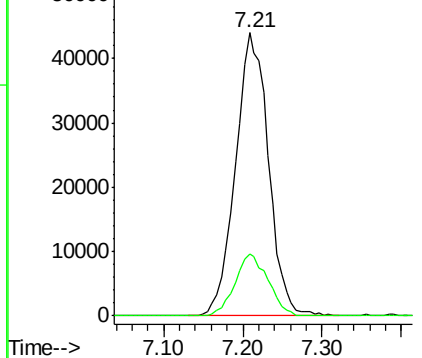
77 100

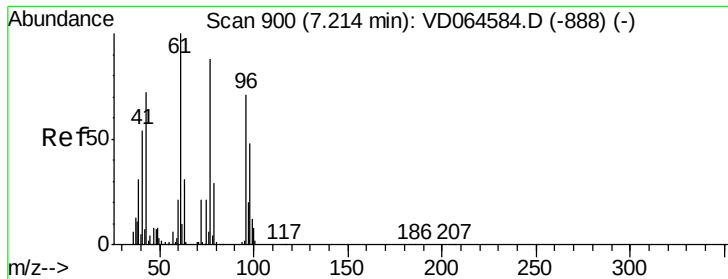
97 22.0 11.2 33.6



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

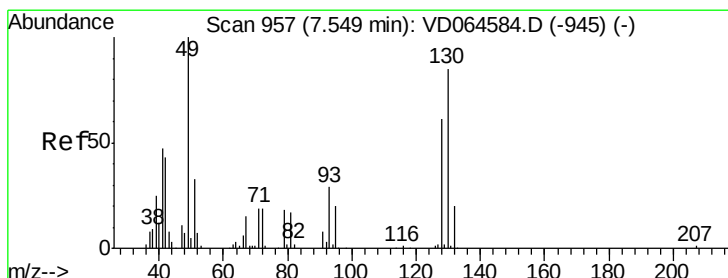
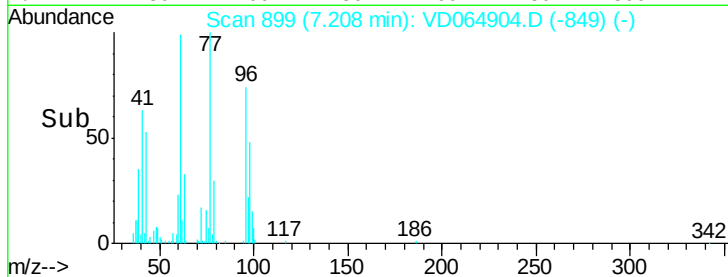
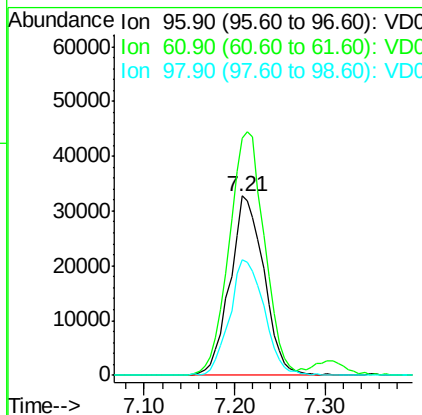
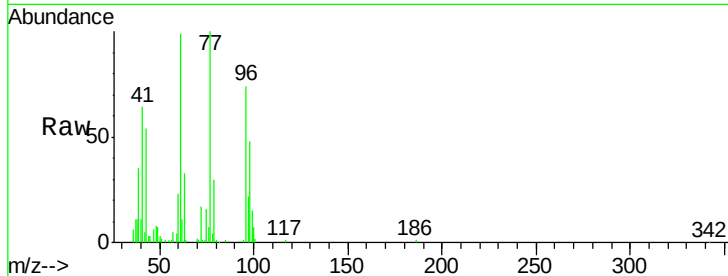
cis-1,2-Dichloroethene
Concen: 23.159 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	282.6
98	65.4	0.0	130.8

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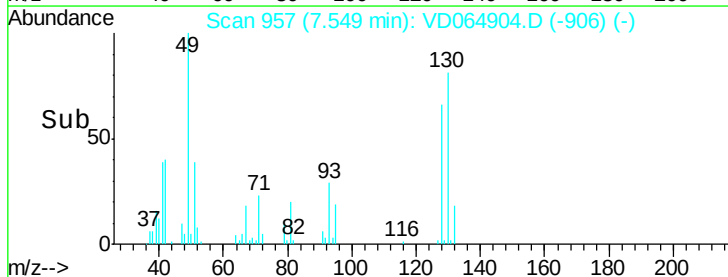
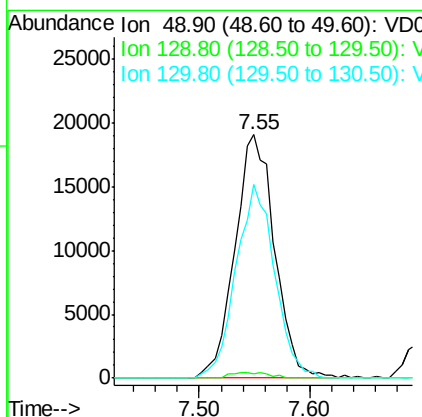
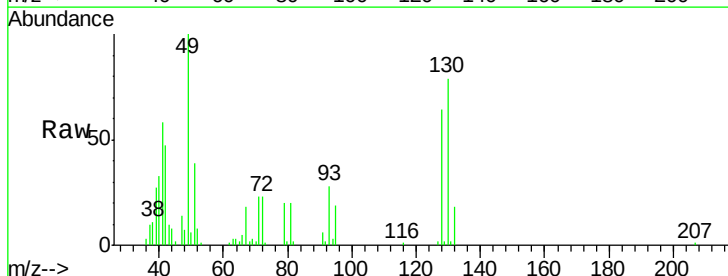
MMDadoda
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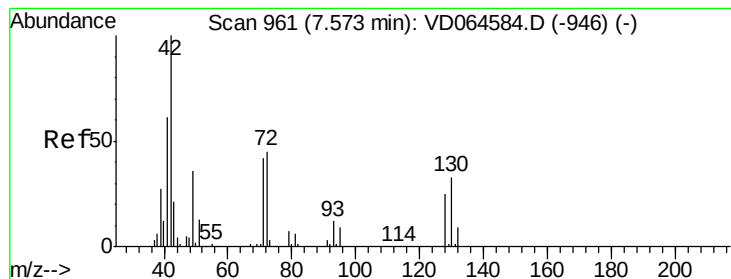


#28

Bromochloromethane
Concen: 22.095 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.8
130	77.6	65.0	97.6





#29

Tetrahydrofuran

Concen: 118.766 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

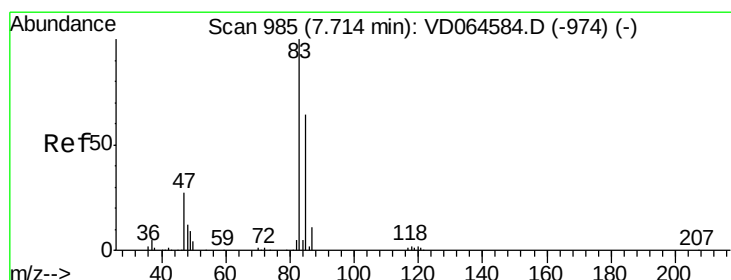
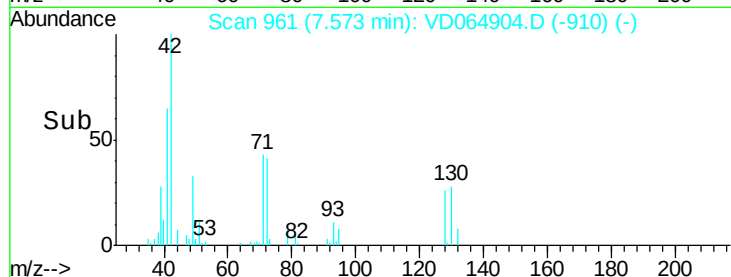
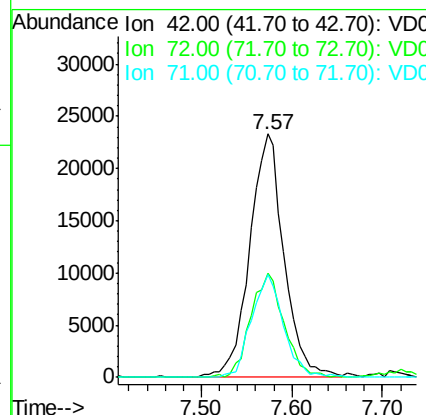
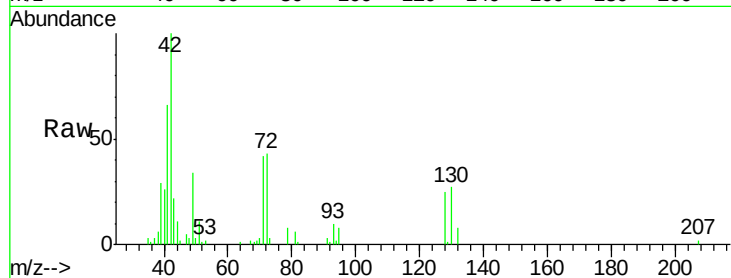
ClientSampleId :

VD0121SBS01

Tot Ion:	42	Resp:	61133
Ion	Ratio	Lower	Upper
42	100		
72	41.7	35.0	52.4
71	39.6	32.9	49.3

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1/22/2020 10:49:30 AM



#30

Chloroform

Concen: 24.860 ug/l

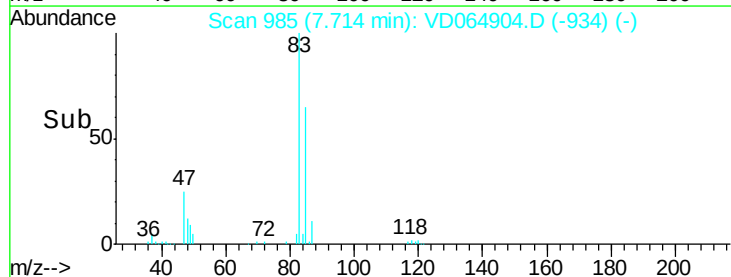
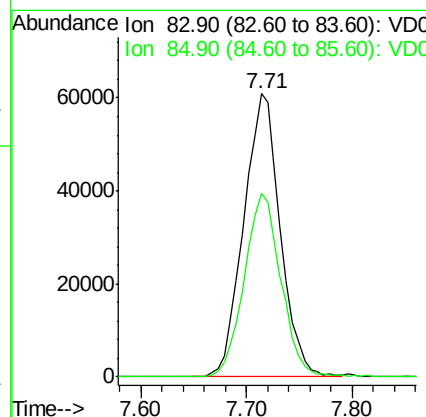
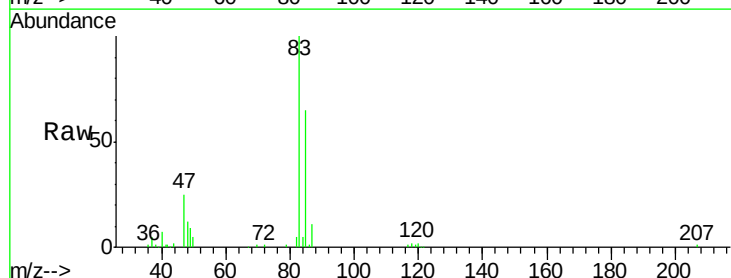
RT: 7.71 min Scan# 985

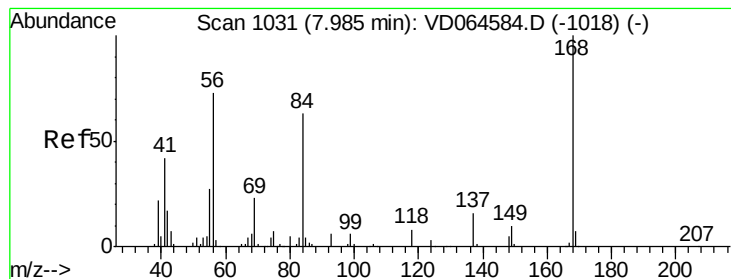
Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	83	Resp:	146293
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.1	76.7





#31

Cyclohexane

Concen: 22.204 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 56 Resp: 124666

Ion Ratio Lower Upper

56 100

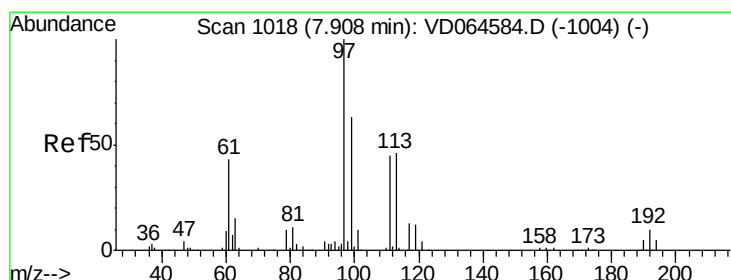
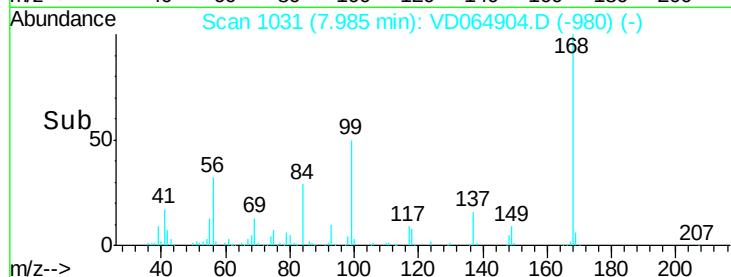
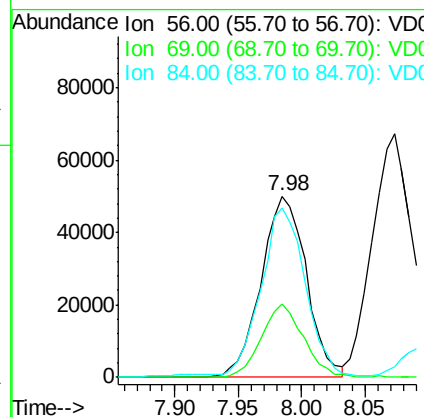
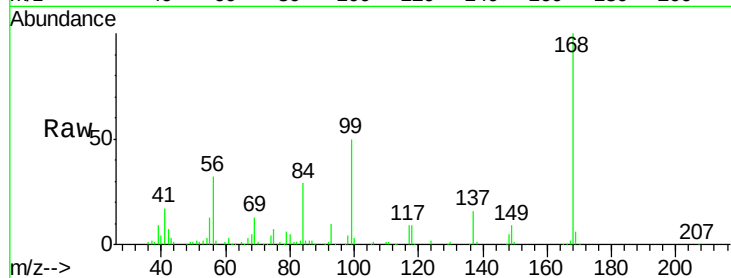
69 40.1 24.7 37.1#

84 91.6 69.4 104.2

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#32

1,1,1-Trichloroethane

Concen: 23.965 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

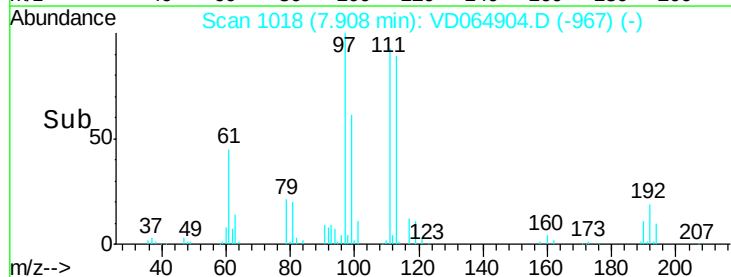
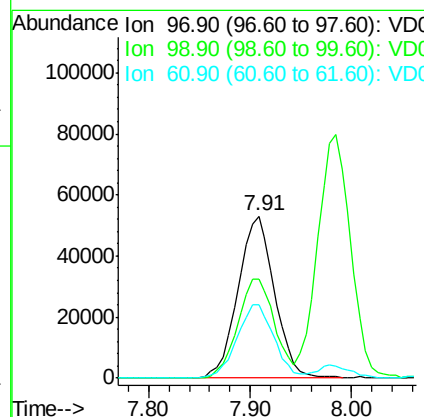
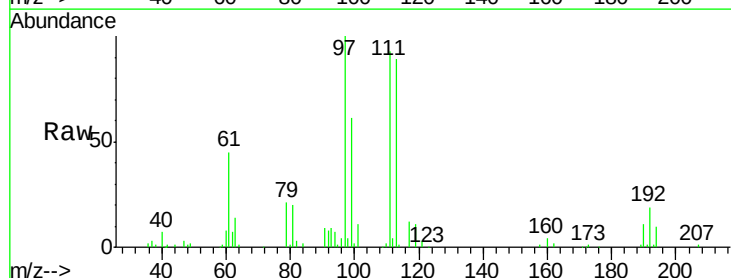
Tgt Ion: 97 Resp: 132460

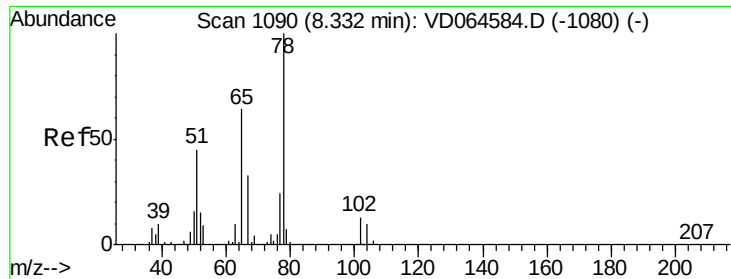
Ion Ratio Lower Upper

97 100

99 62.2 51.0 76.6

61 45.8 35.4 53.0





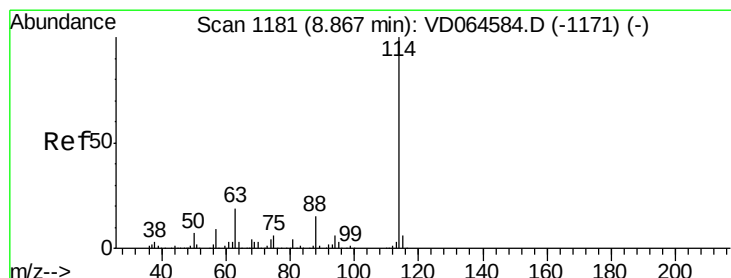
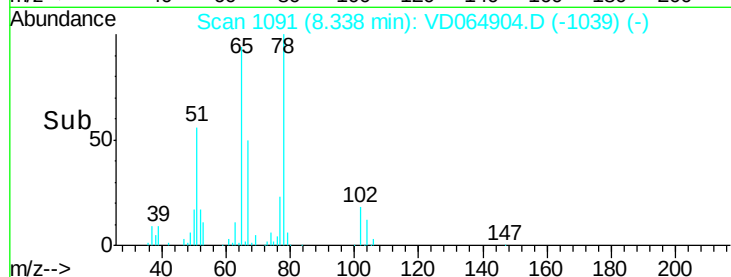
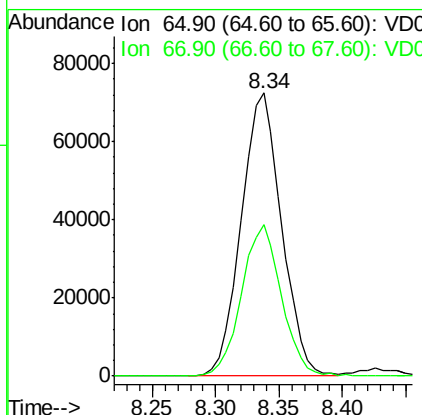
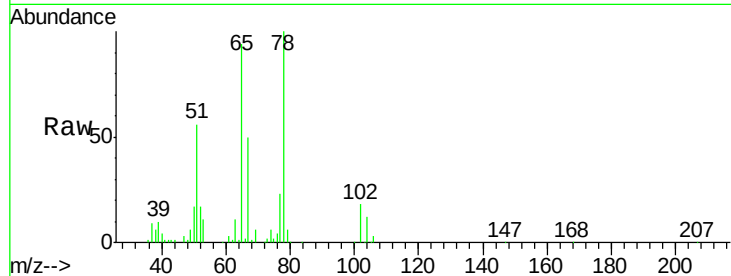
#33
 1,2-Dichloroethane-d4
 Concen: 53.180 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	160139		
67	52.9	0.0	106.2	

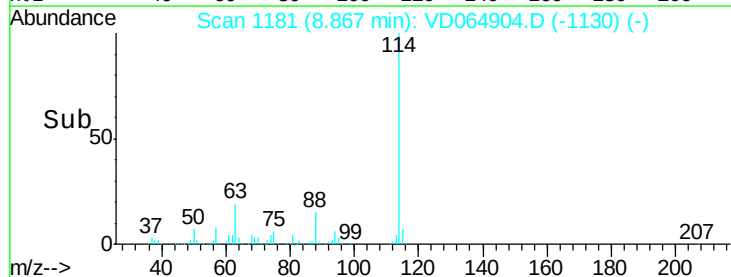
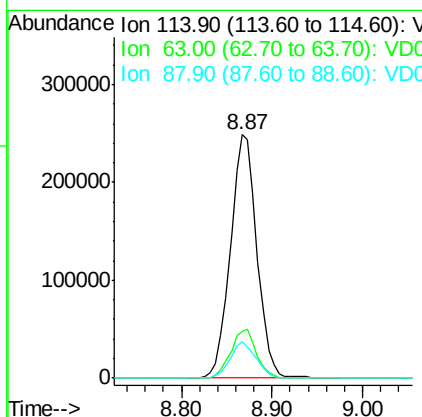
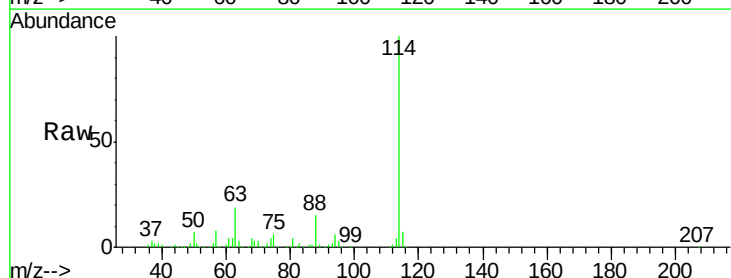
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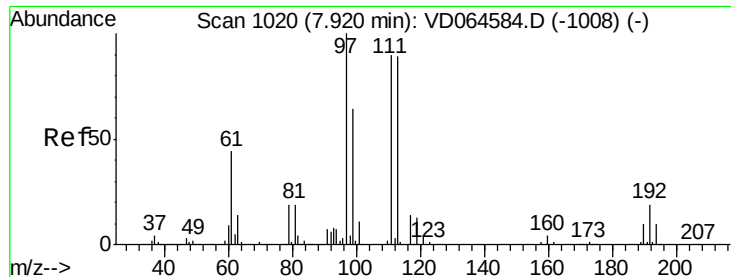
MMDadoda
 1/22/2020 10:49:30 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	505057		
63	19.3	0.0	38.0	
88	14.8	0.0	29.2	





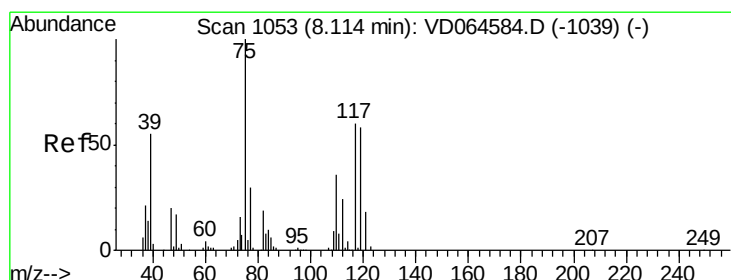
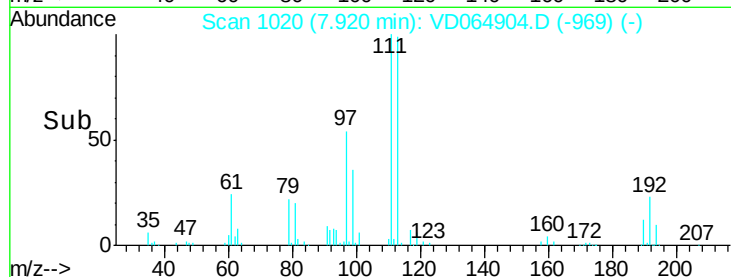
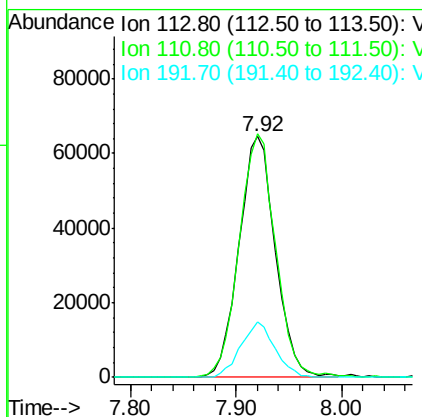
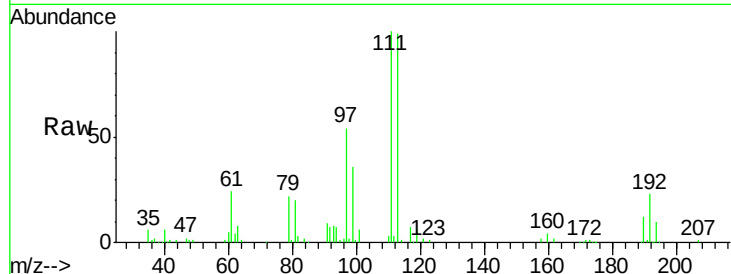
#35
 Dibromofluoromethane
 Concen: 49.755 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	154173		
111	101.4	80.6	121.0	
192	21.8	17.9	26.9	

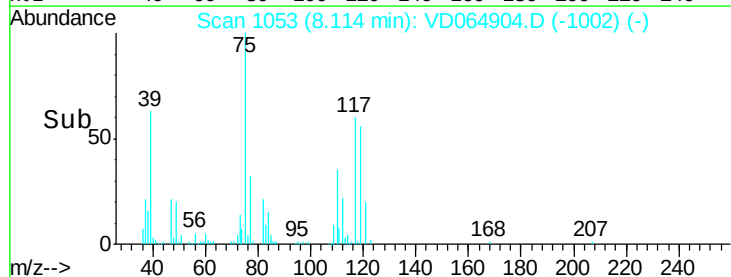
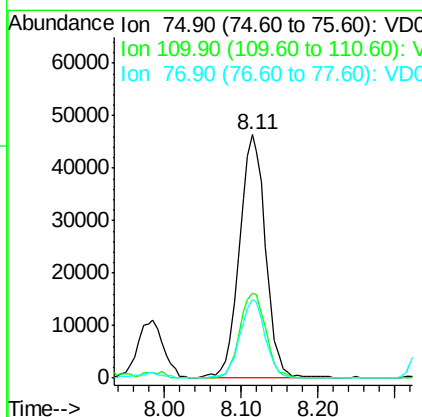
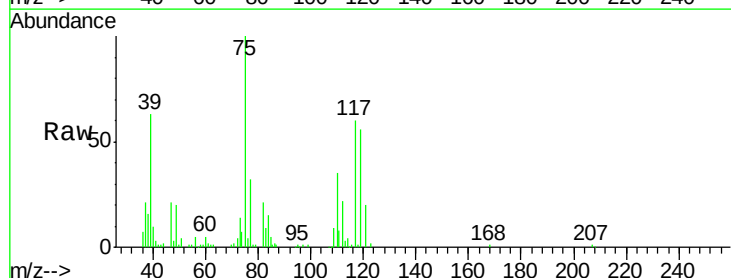
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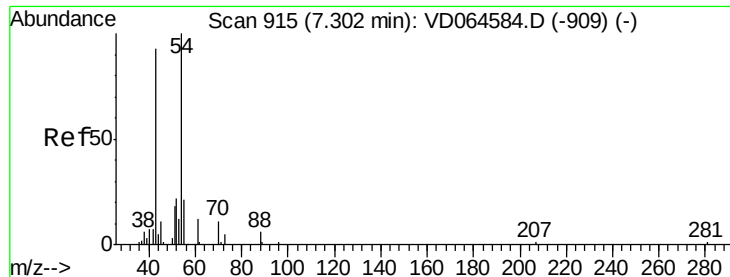
MMDadoda
 1/22/2020 10:49:30 AM



#36
 1,1-Dichloropropene
 Concen: 22.687 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	110287		
110	34.6	18.1	54.1	
77	31.0	24.2	36.4	





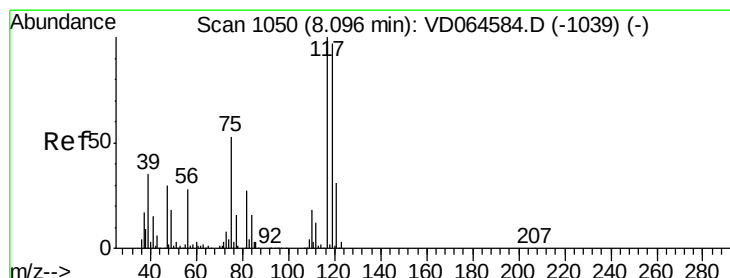
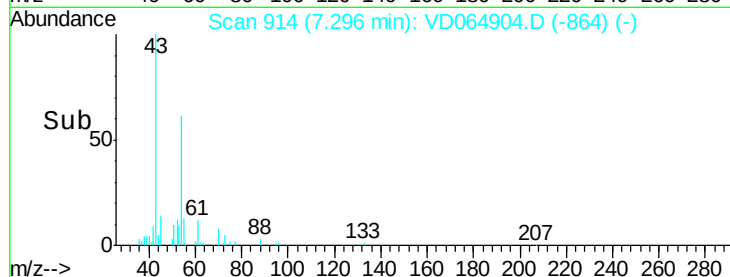
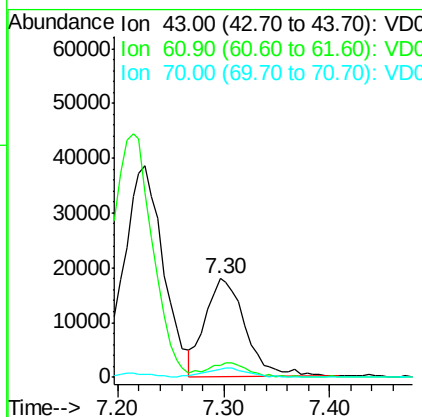
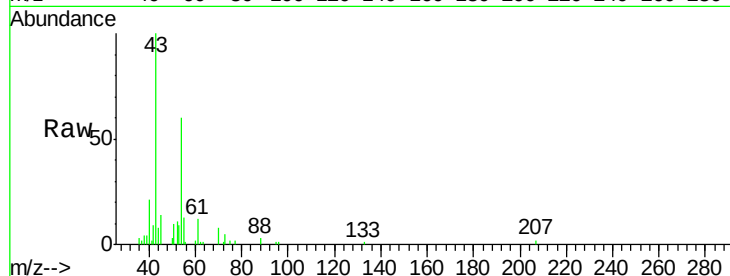
#37
Ethyl Acetate
Concen: 24.905 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.3	15.5
70	9.8	7.6	11.4

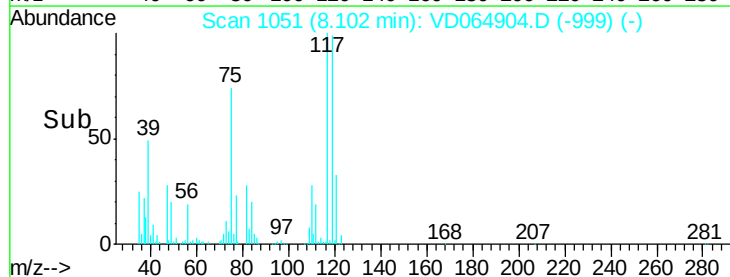
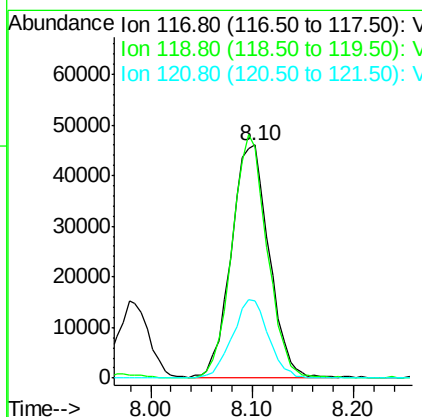
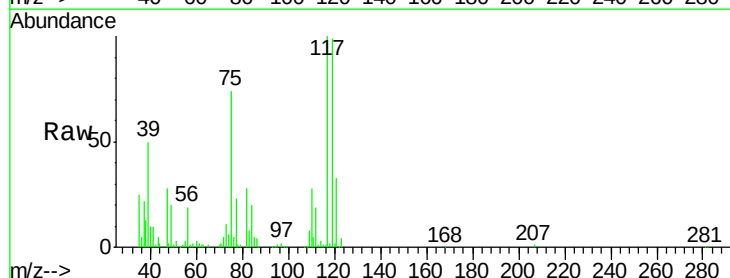
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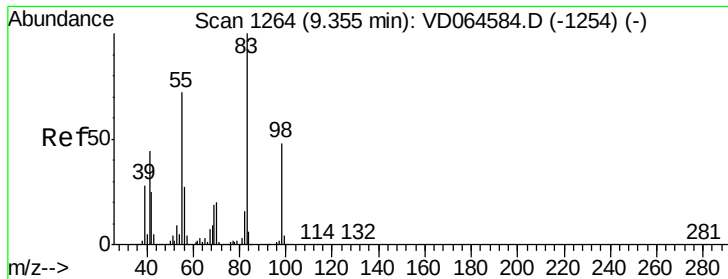
MMDadoda
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#38
Carbon Tetrachloride
Concen: 23.009 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.3	115.9
121	33.1	25.0	37.6





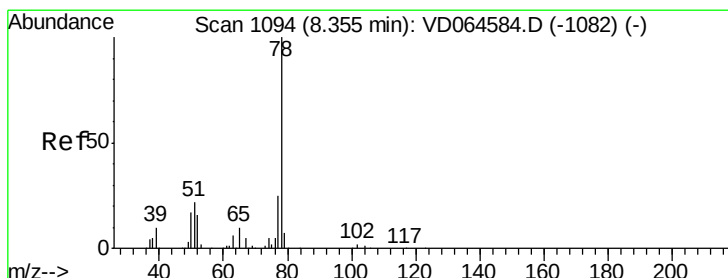
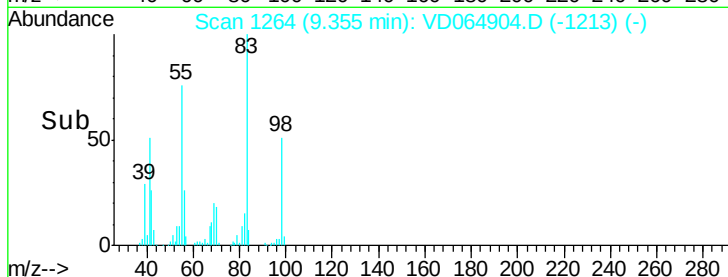
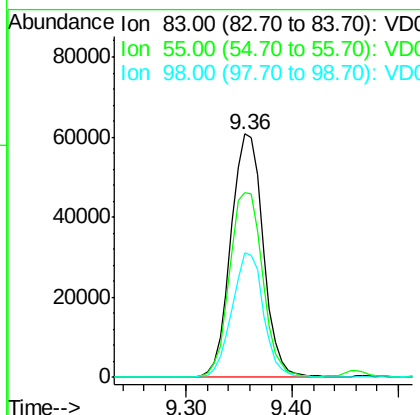
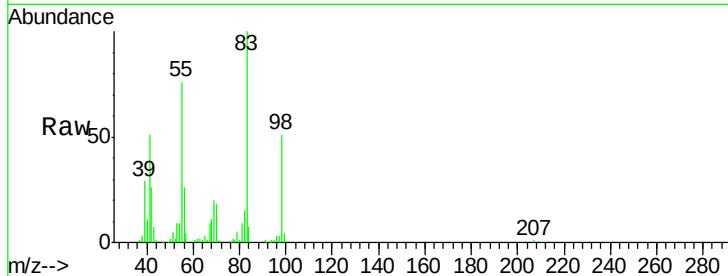
#39
Methylvlcyclohexane
Concen: 21.865 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.7	57.8	86.6
98	51.1	38.7	58.1

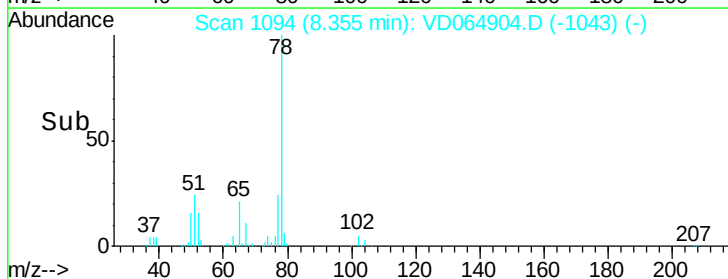
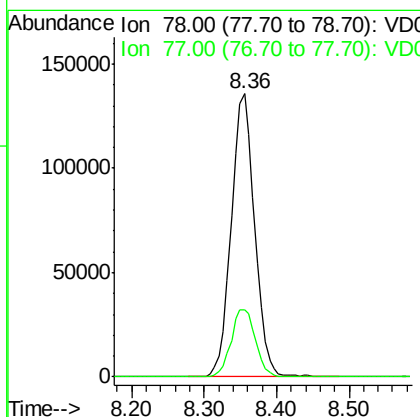
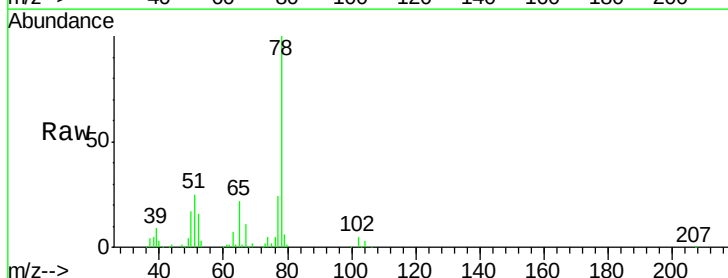
Manual Integrations
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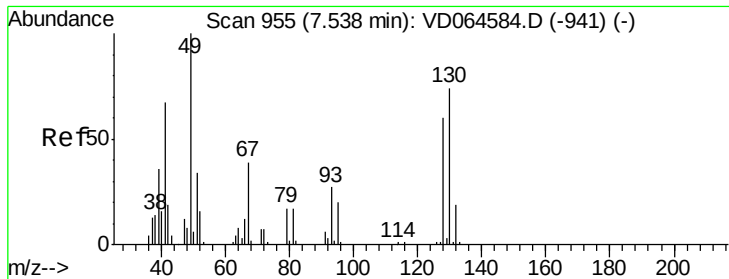
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#40
Benzene
Concen: 22.936 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.9	29.9





#41

Methacrylonitrile

Concen: 15.326 ug/l m

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 41 Resp: 16982

Ion Ratio Lower Upper

41 100

39 98.5 46.7 70.1#

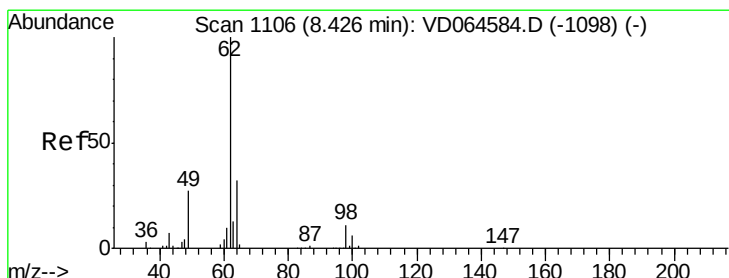
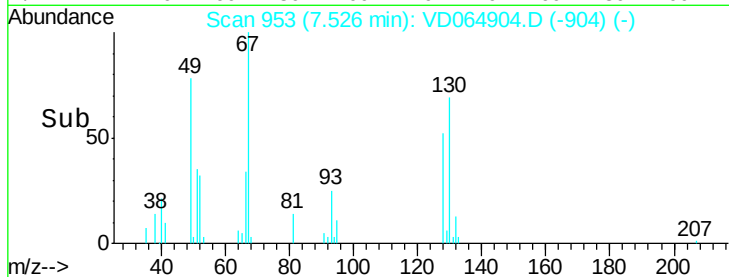
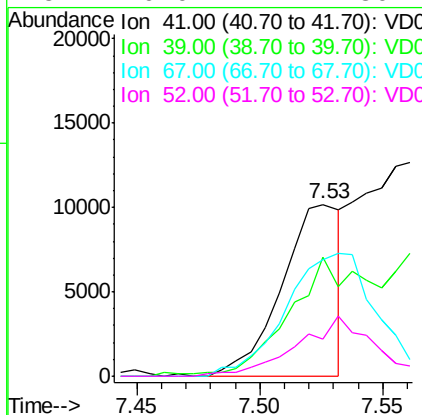
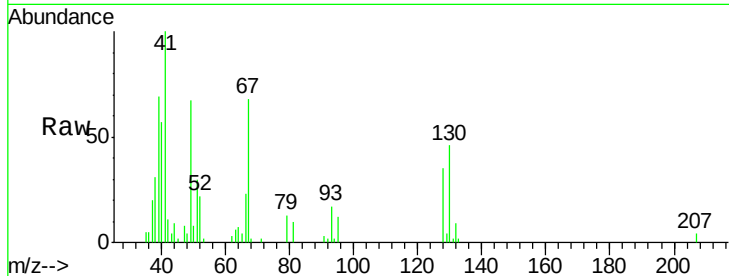
67 0.0 52.5 78.7#

52 0.0 24.1 36.1#

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1/22/2020 10:49:30 AM



#42

1,2-Dichloroethane

Concen: 24.554 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD064904.D

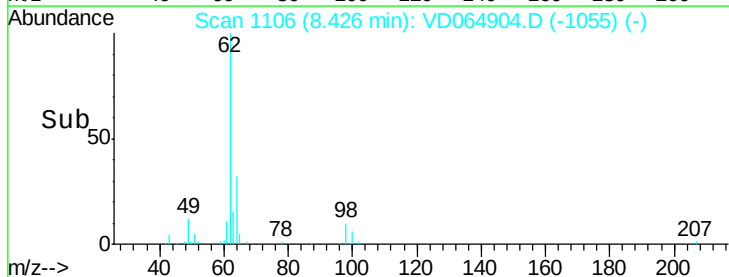
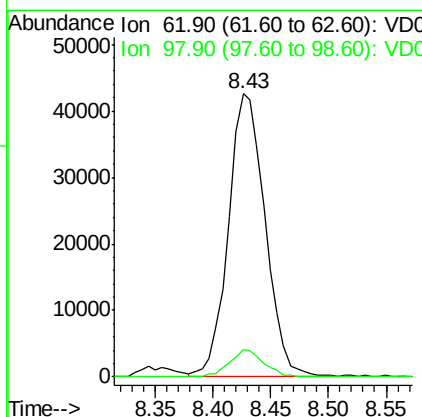
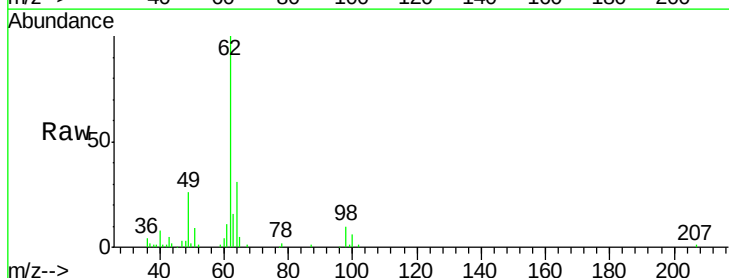
Acq: 21 Jan 2020 11:19

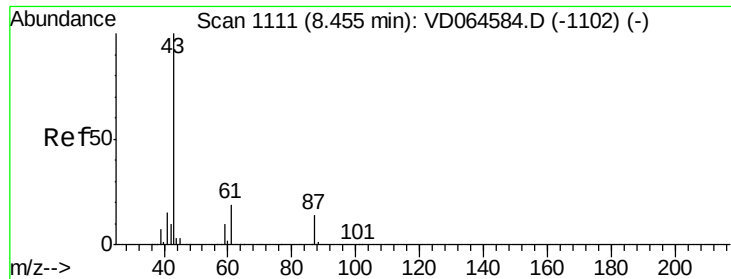
Tgt Ion: 62 Resp: 94162

Ion Ratio Lower Upper

62 100

98 9.0 0.0 20.0





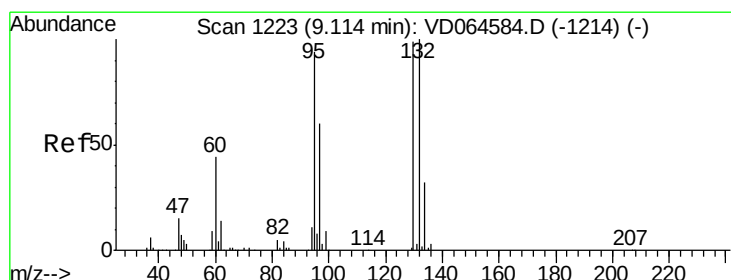
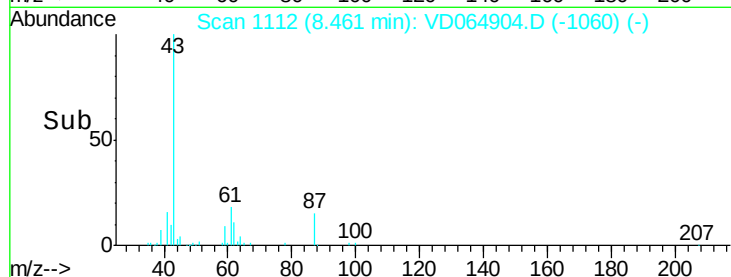
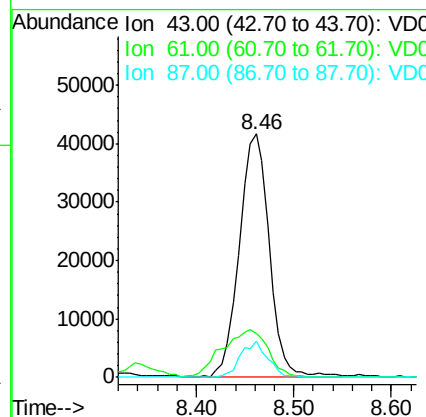
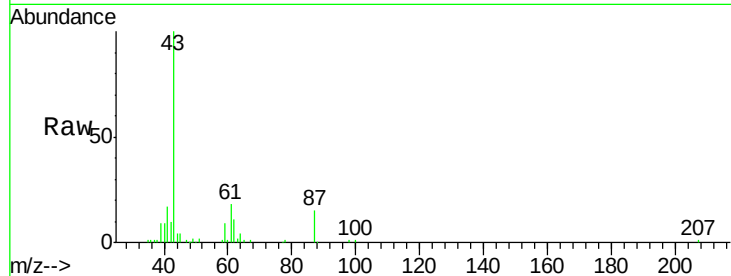
#43
Isopropyl Acetate
Concen: 23.548 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.8	23.7	35.5
87	13.5	10.5	15.7

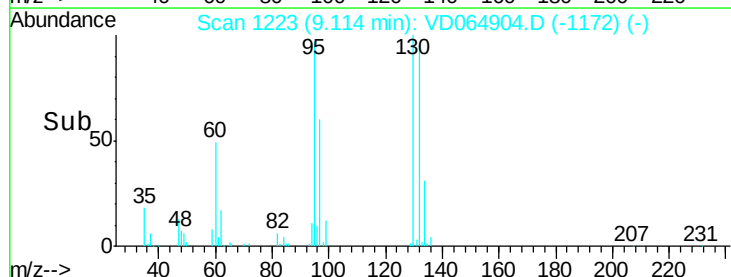
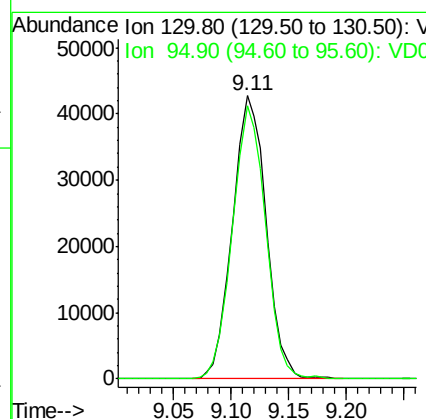
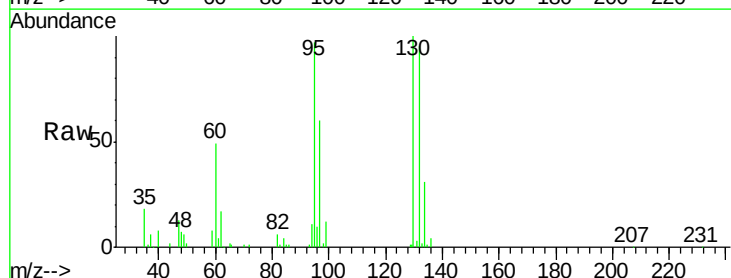
Manual Integrations
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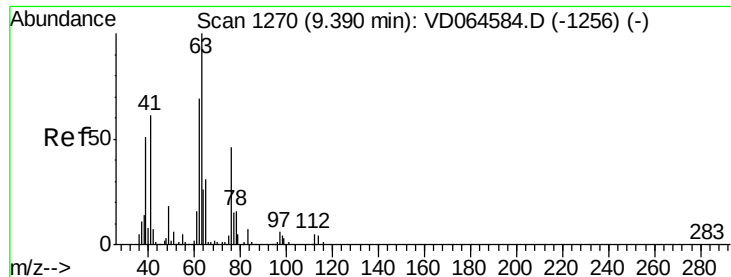
MMDadoda
1/22/2020 10:49:30 AM



#44
Trichloroethene
Concen: 22.142 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	190.2





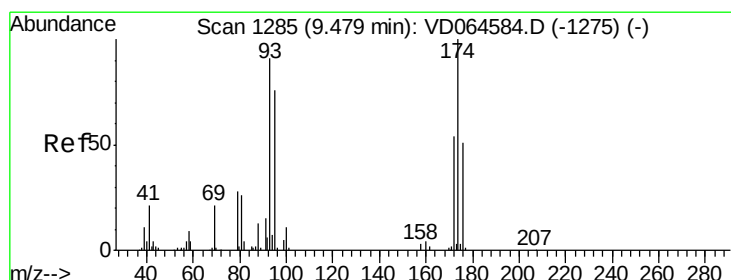
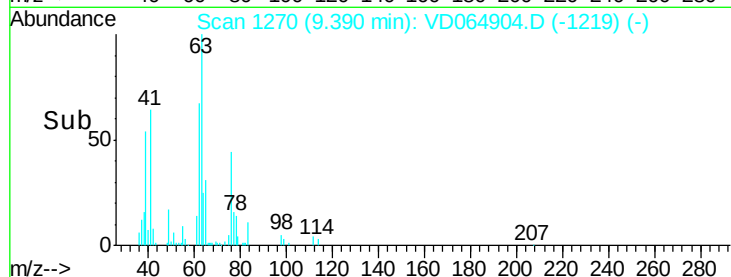
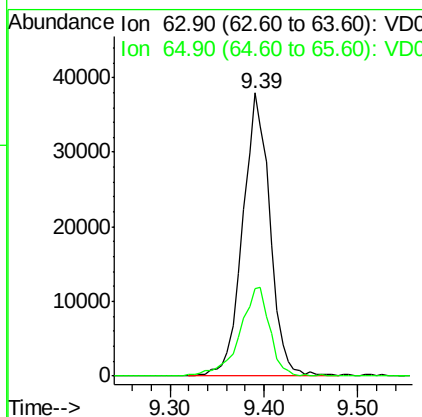
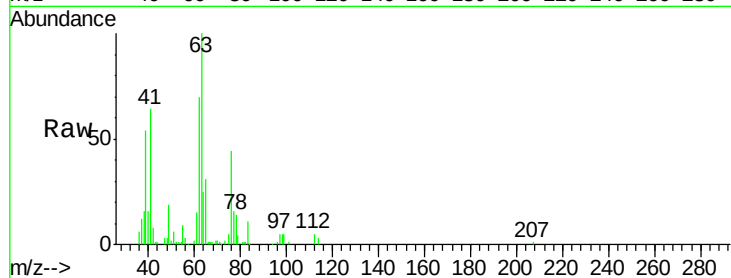
#45
 1,2-Dichloropropane
 Concen: 24.011 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.2	37.8

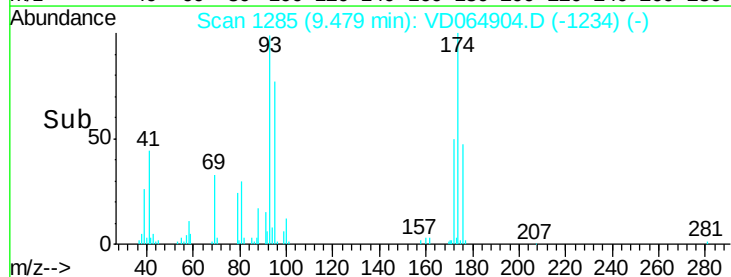
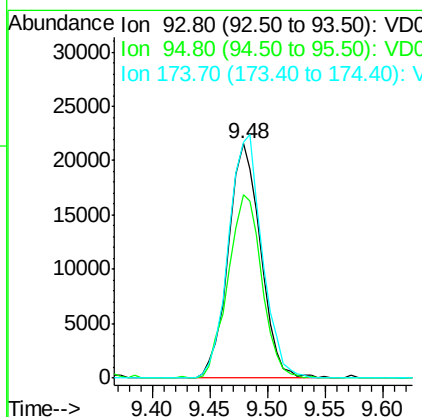
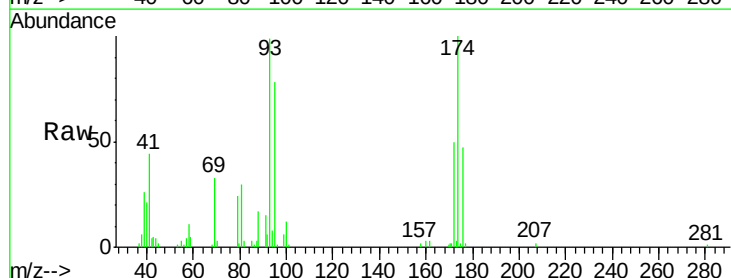
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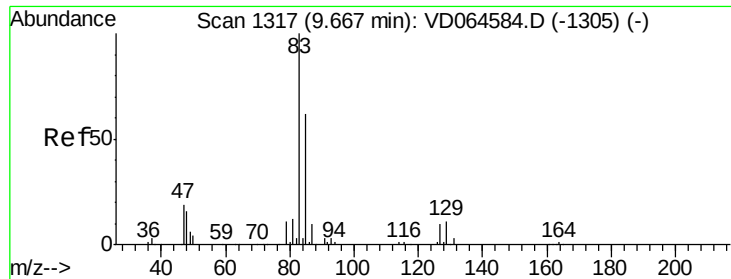
MMDadoda
 1/22/2020 10:49:30 AM



#46
 Dibromomethane
 Concen: 23.813 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.1	64.6	97.0
174	106.8	88.1	132.1





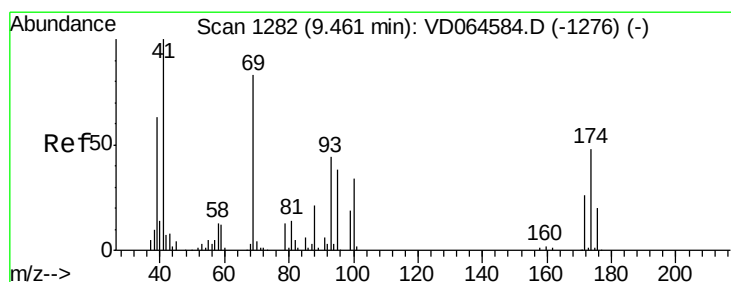
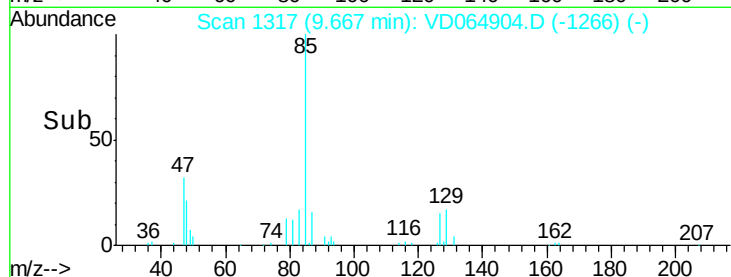
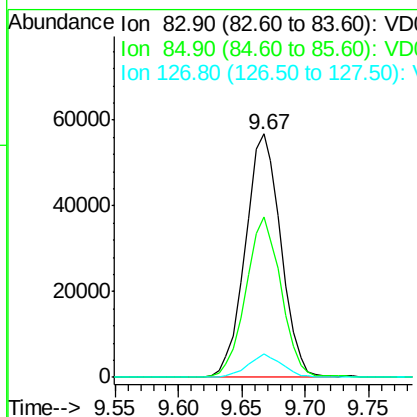
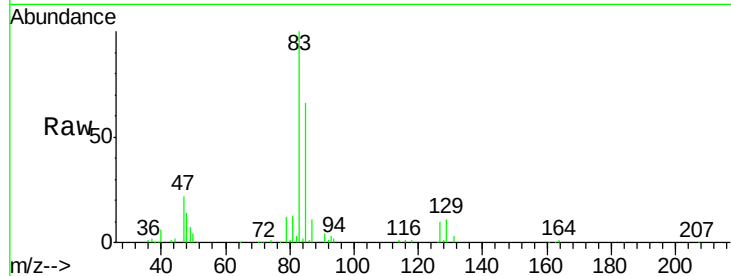
#47
Bromodichloromethane
Concen: 23.565 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	110771		
85	65.7		49.5	74.3
127	9.6		7.8	11.6

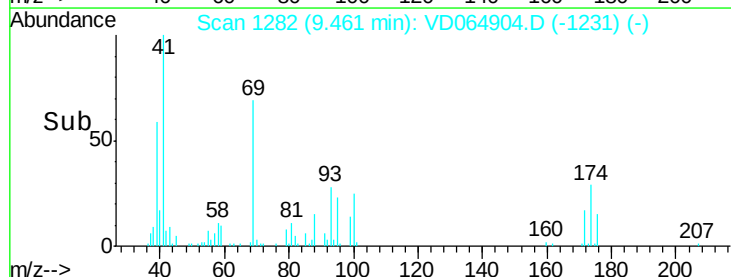
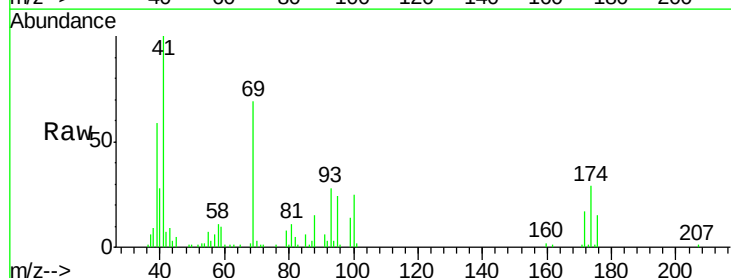
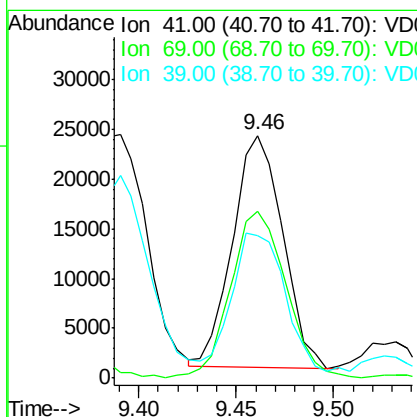
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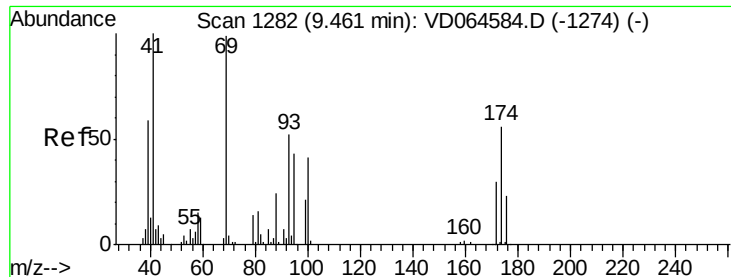
MMDadoda
1/22/2020 10:49:30 AM



#48
Methyl methacrylate
Concen: 23.208 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	41537		
69	79.6		63.0	94.6
39	68.5		47.4	71.2





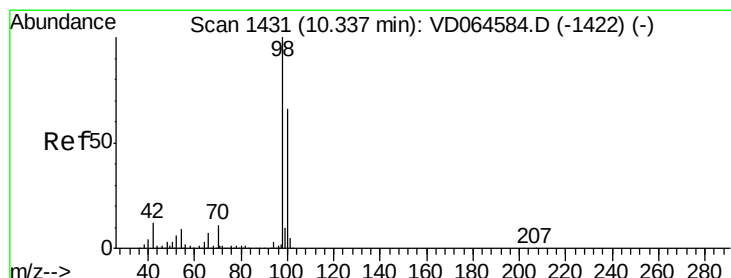
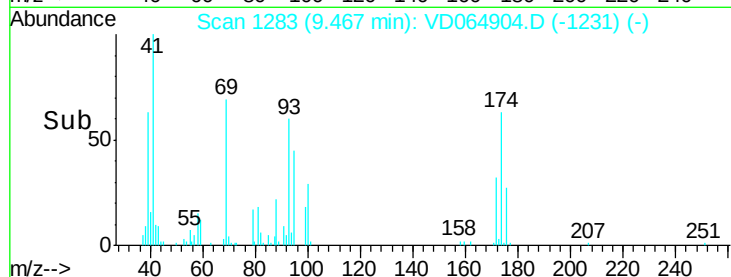
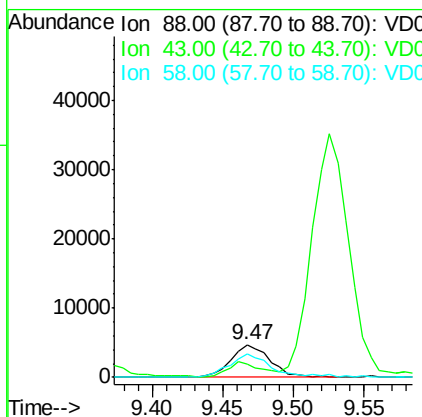
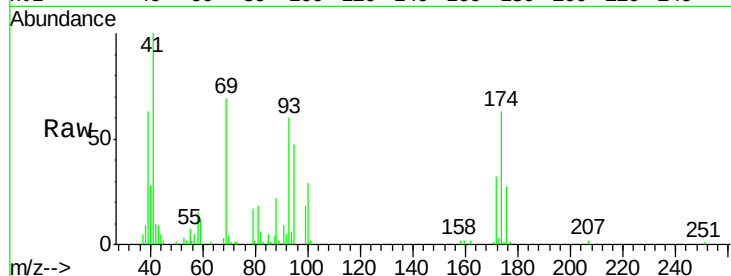
#49
1,4-Dioxane
Concen: 441.053 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion: 88 Resp: 8984
Ion Ratio Lower Upper
88 100
43 42.0 27.7 41.5#
58 72.4 53.8 80.6

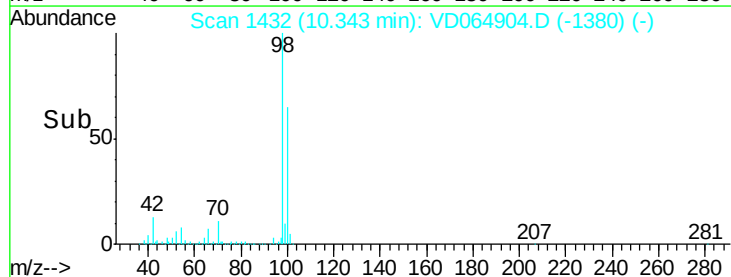
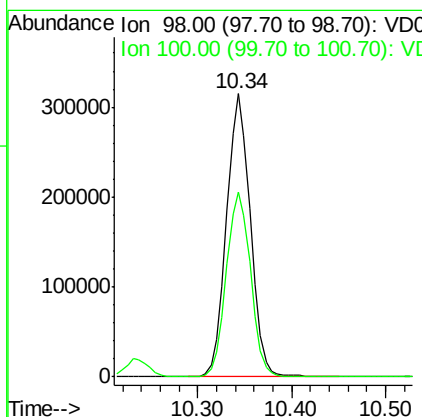
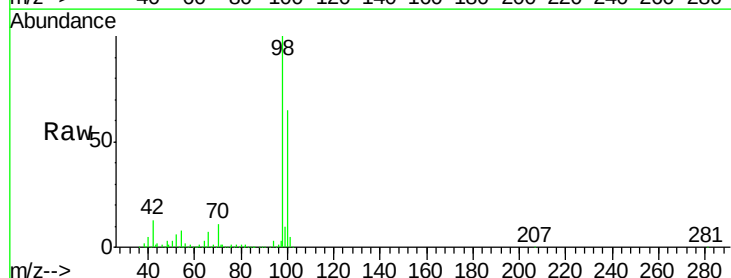
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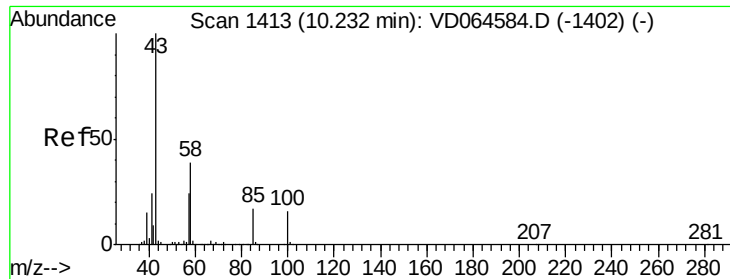
MMDadoda
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#50
Toluene-d8
Concen: 46.764 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion: 98 Resp: 554960
Ion Ratio Lower Upper
98 100
100 66.5 51.7 77.5





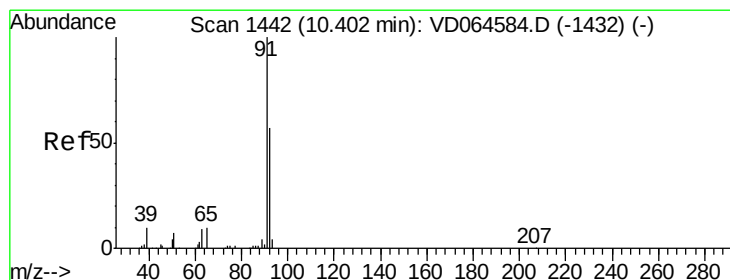
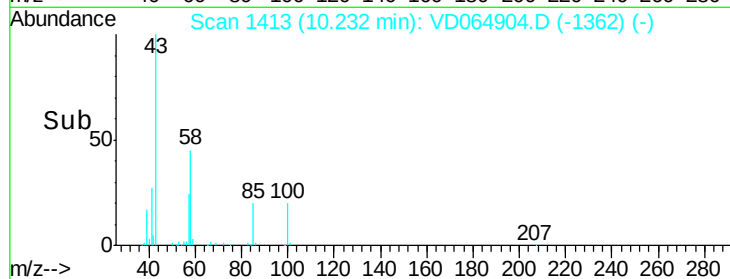
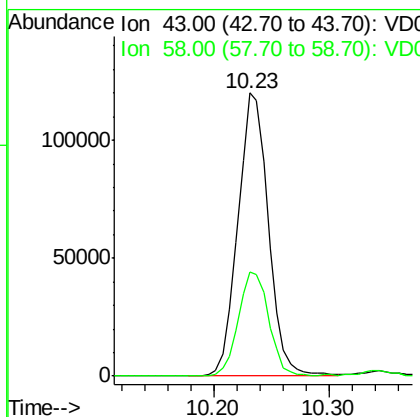
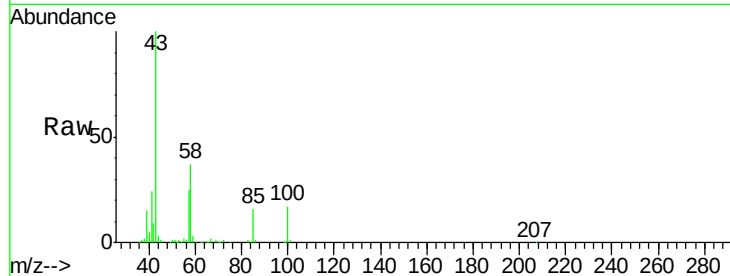
#51
4-Methyl-2-Pentanone
Concen: 117.375 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.2	45.2

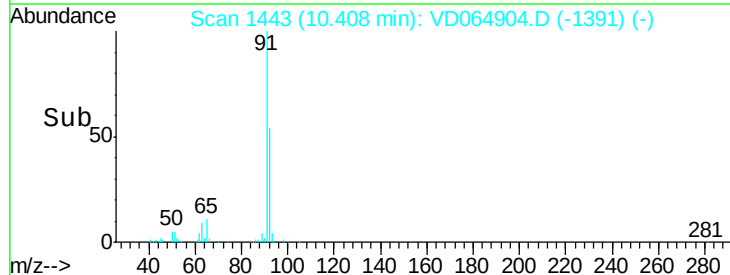
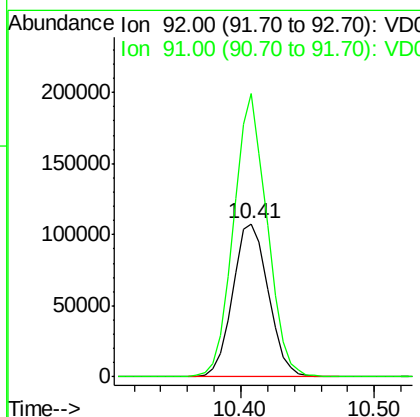
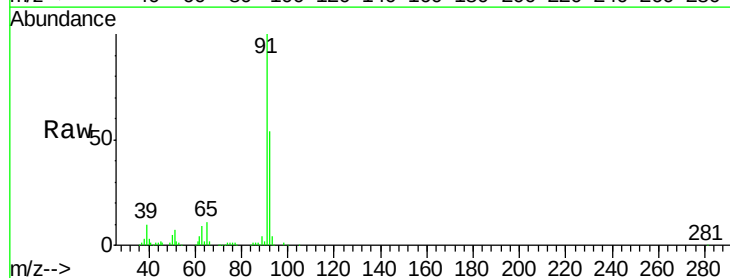
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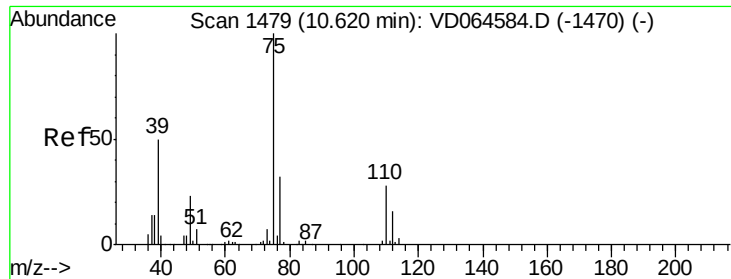
MMDadoda
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#52
Toluene
Concen: 22.964 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.8	138.7	208.1





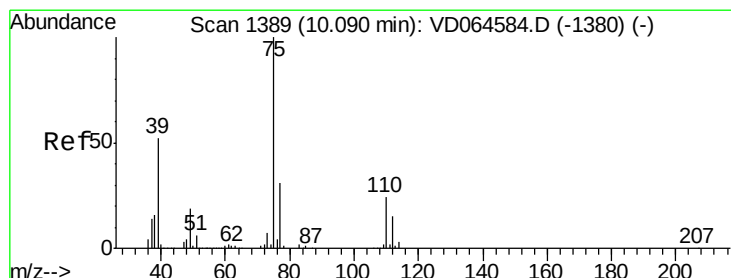
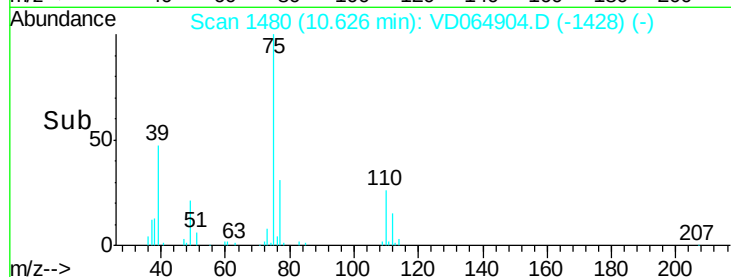
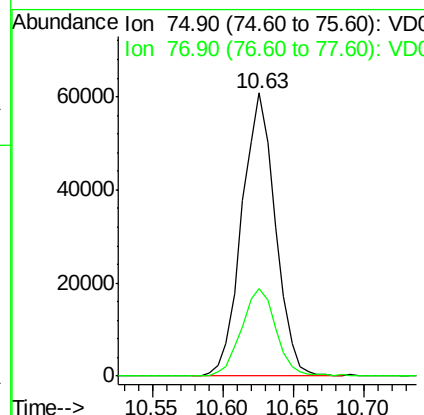
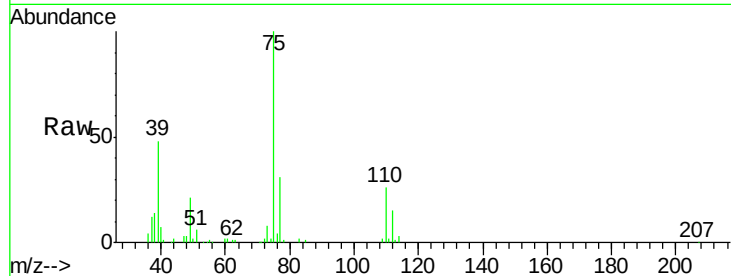
#53
t-1,3-Dichloropropene
Concen: 23.104 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS001

Tot Ion: 75 Resp: 101254
Ion Ratio Lower Upper
75 100
77 30.9 25.4 38.2

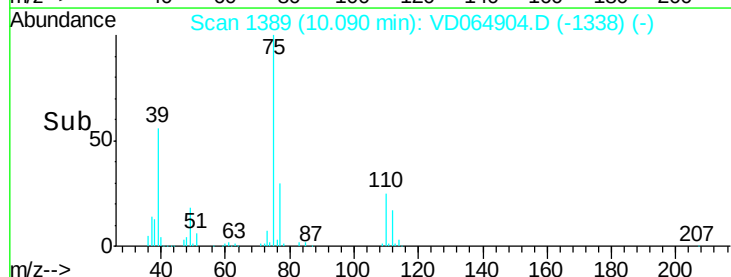
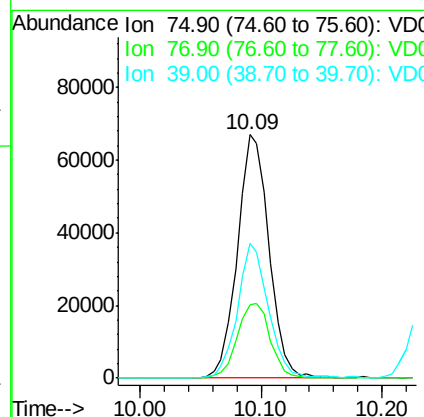
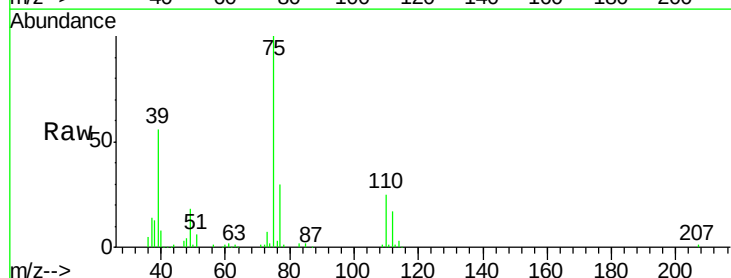
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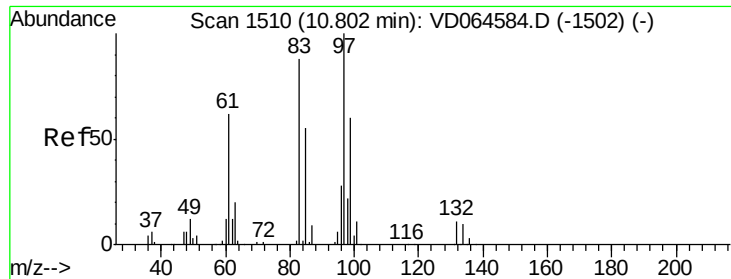
MMDadoda
1/22/2020 10:49:30 AM



#54
cis-1,3-Dichloropropene
Concen: 23.569 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion: 75 Resp: 121796
Ion Ratio Lower Upper
75 100
77 30.2 24.6 36.8
39 55.2 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 23.792 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 97 Resp: 56643

Ion Ratio Lower Upper

97 100

83 80.3 70.2 105.4

85 49.4 44.0 66.0

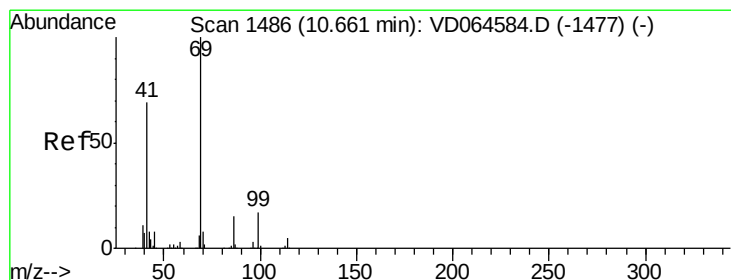
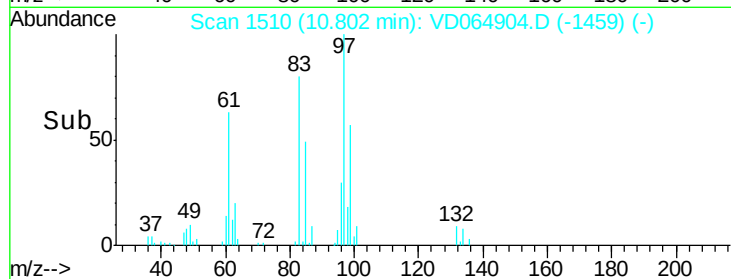
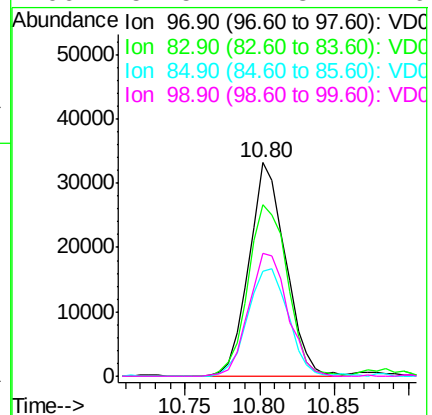
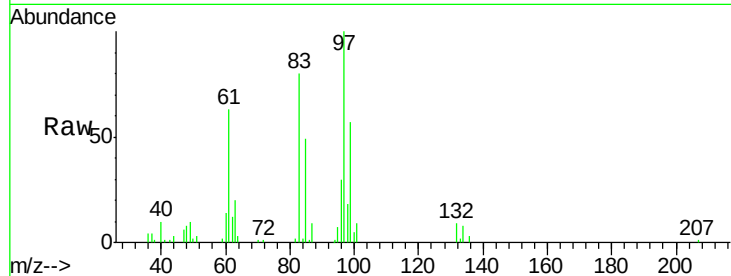
99 57.5 47.8 71.6

Manual Integrations

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#56

Ethyl methacrylate

Concen: 22.376 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

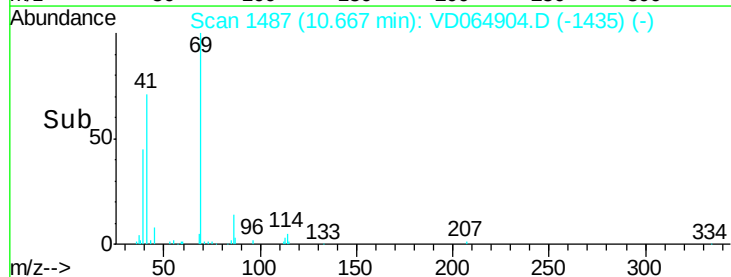
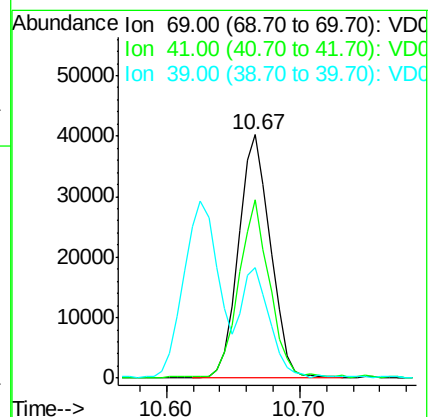
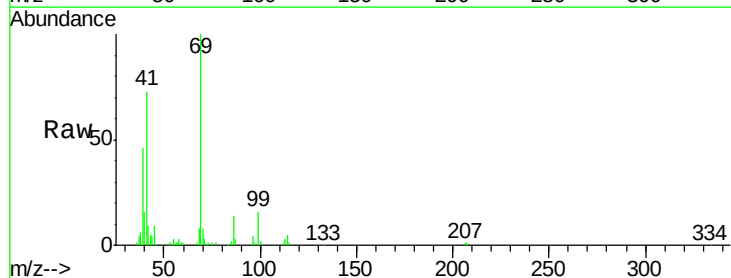
Tgt Ion: 69 Resp: 66528

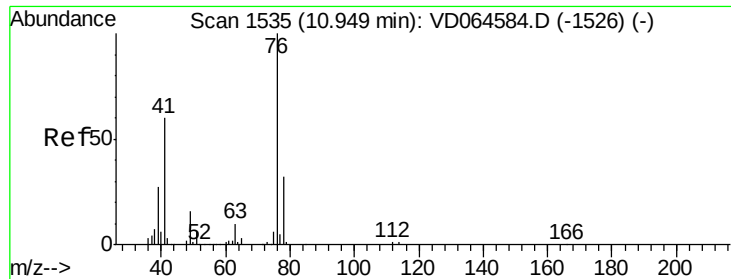
Ion Ratio Lower Upper

69 100

41 72.0 55.3 82.9

39 39.6 33.8 50.8





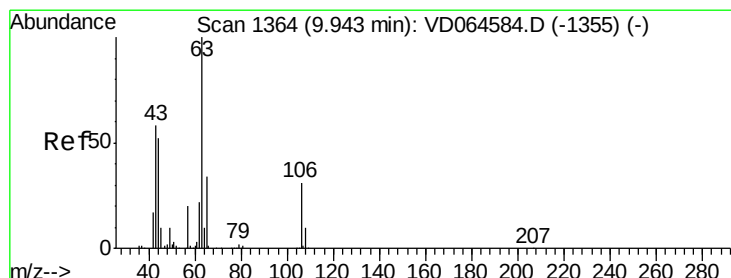
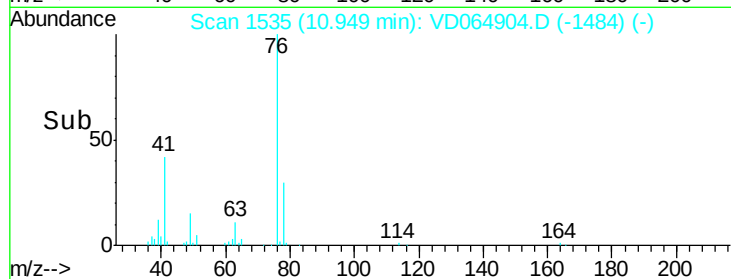
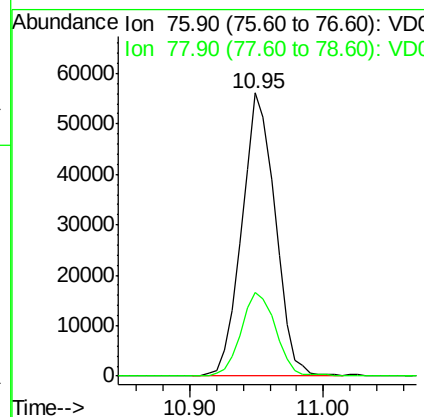
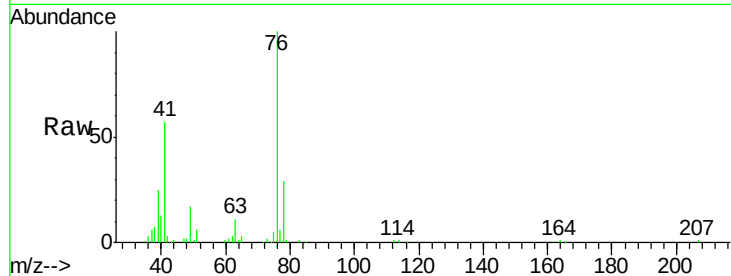
#57
 1,3-Dichloropropane
 Concen: 23.630 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	30.5	26.2	39.4

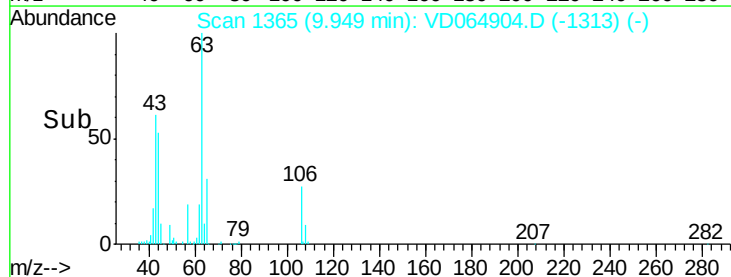
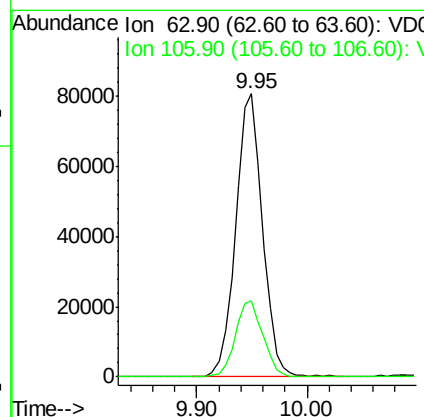
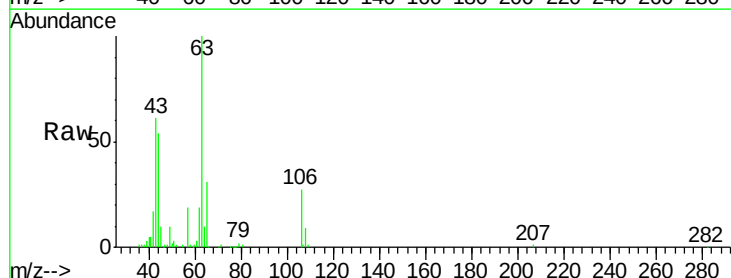
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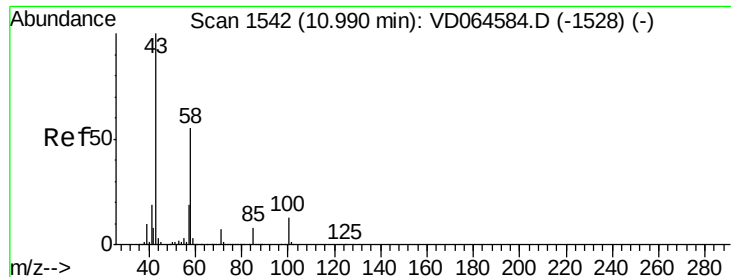
MMDadoda
 1/22/2020 10:49:30 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 121.218 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.6	23.8	35.8





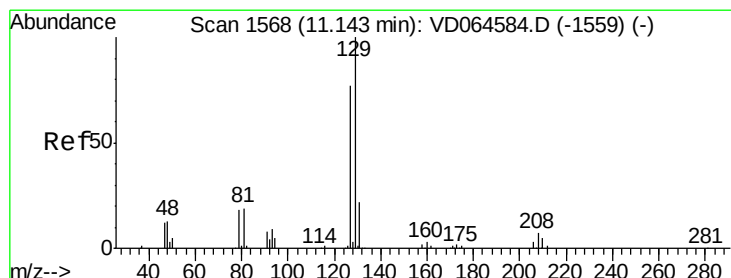
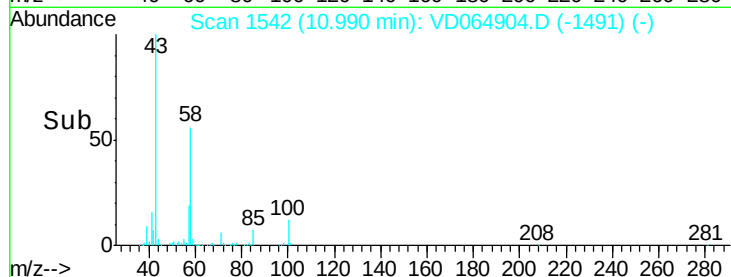
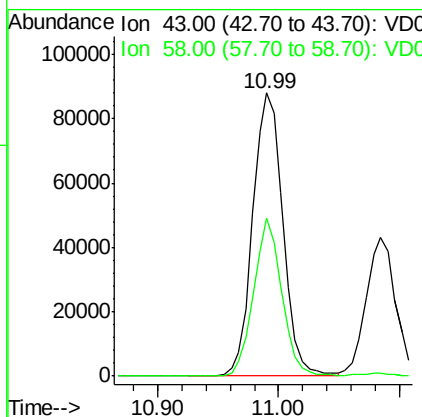
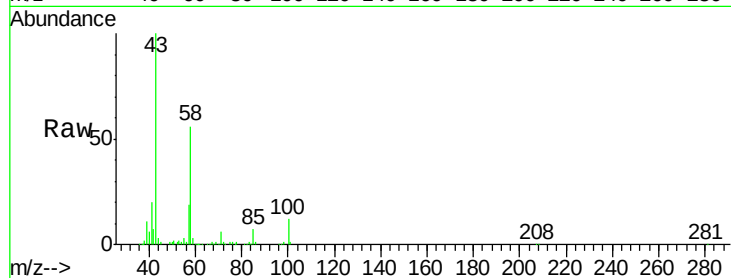
#59
2-Hexanone
Concen: 120.481 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.8	26.4	79.0

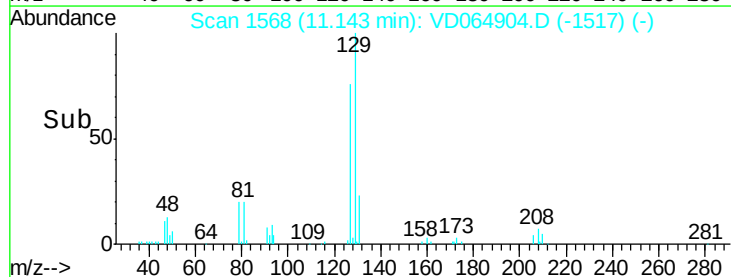
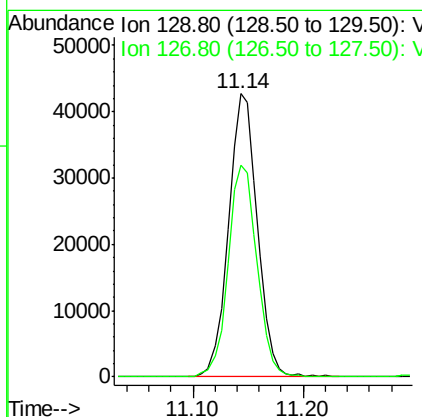
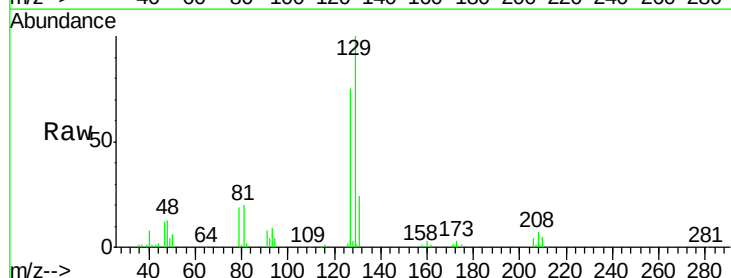
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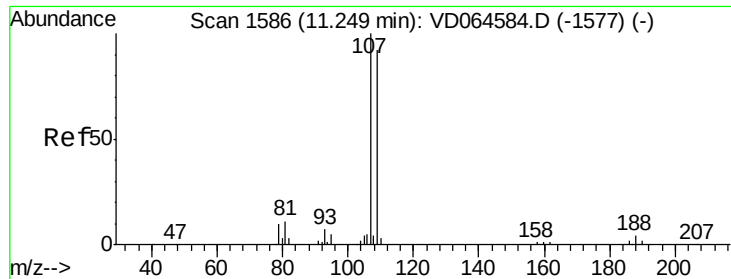
MMDadoda
1/22/2020 10:49:30 AM



#60
Dibromochloromethane
Concen: 23.649 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.9	38.4	115.2





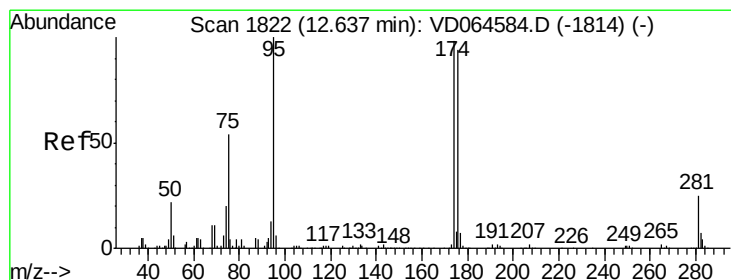
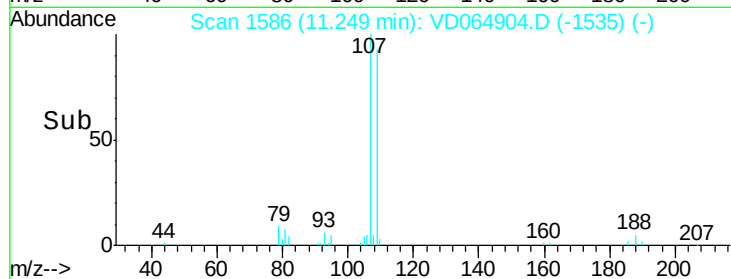
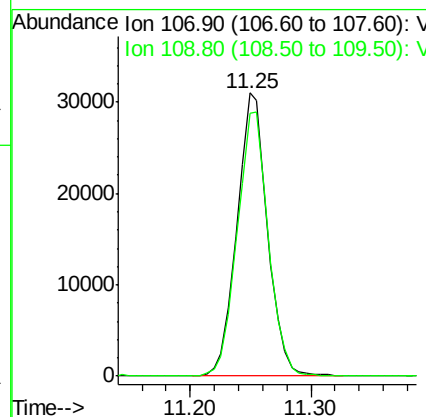
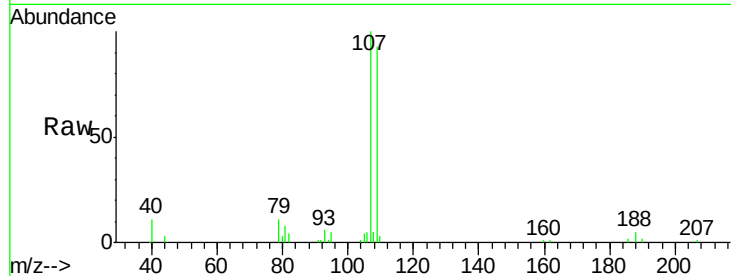
#61
1,2-Dibromoethane
Concen: 23.198 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion: 107 Resp: 54472
Ion Ratio Lower Upper
107 100
109 95.4 75.6 113.4

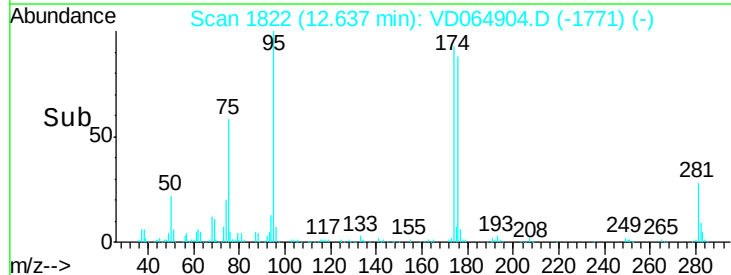
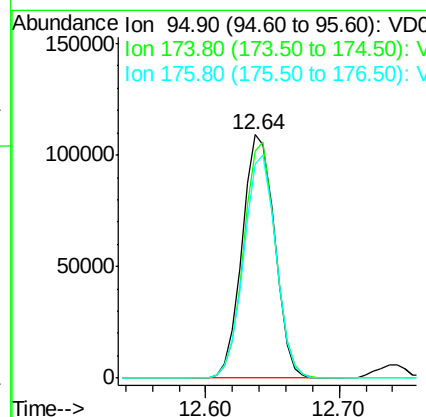
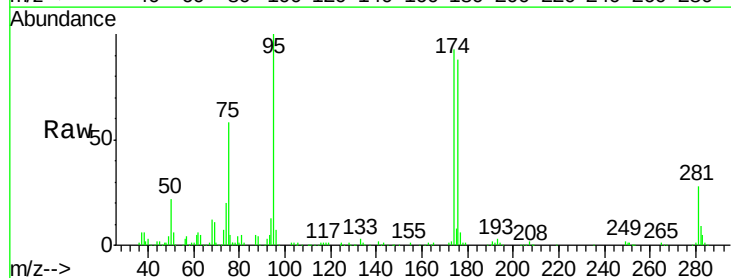
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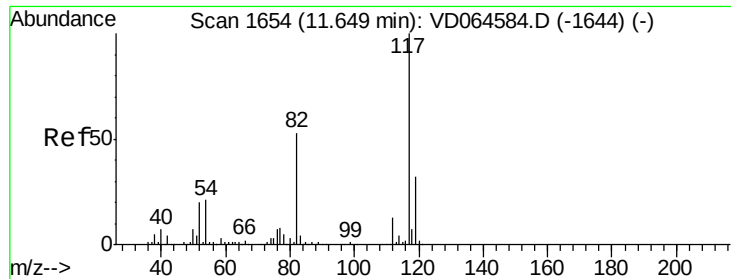
MMDadoda
1/22/2020 10:49:30 AM



#62
4-Bromofluorobenzene
Concen: 48.986 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion: 95 Resp: 183824
Ion Ratio Lower Upper
95 100
174 94.4 0.0 193.2
176 90.4 0.0 184.2





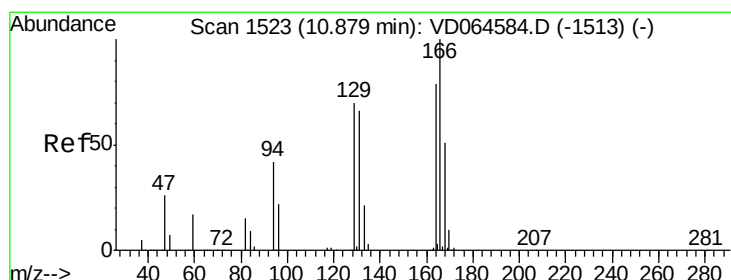
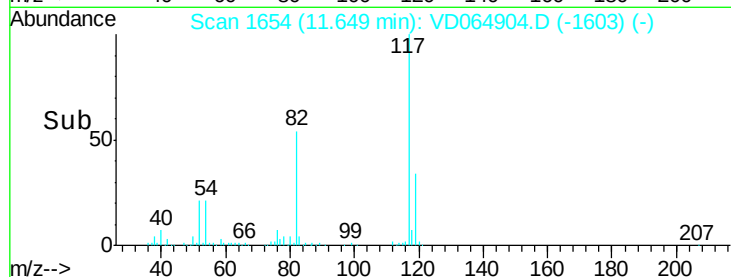
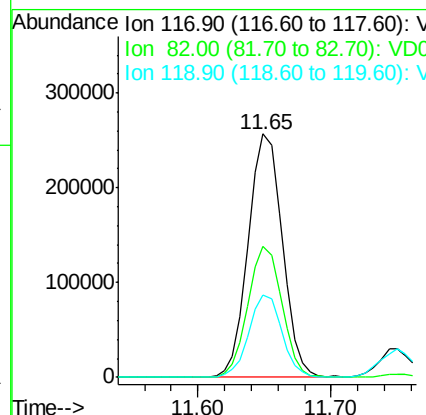
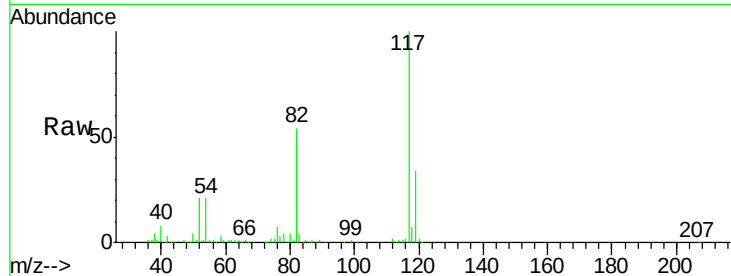
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	453706		
82	53.8		42.2	63.4
119	33.7		26.0	39.0

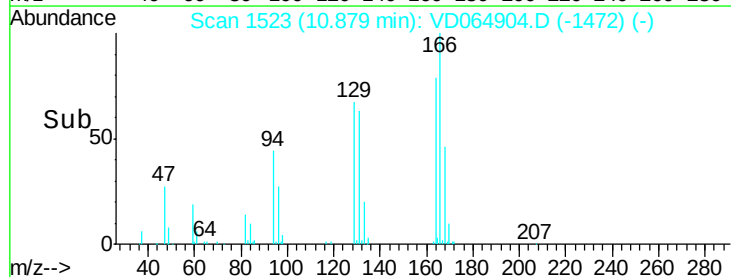
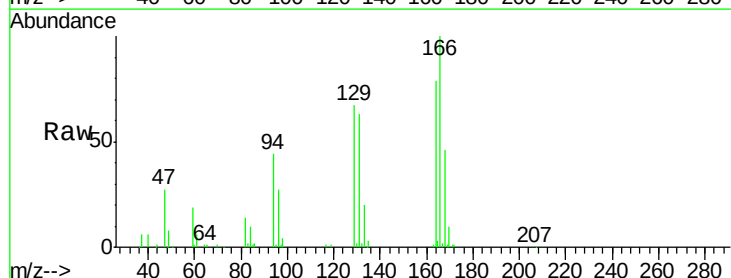
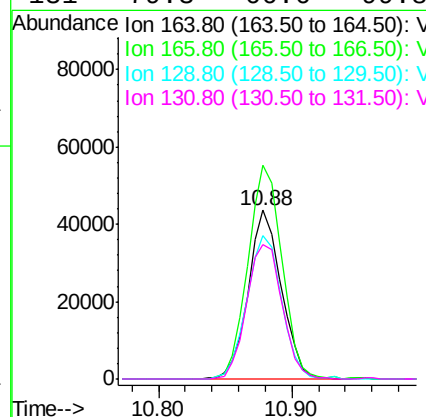
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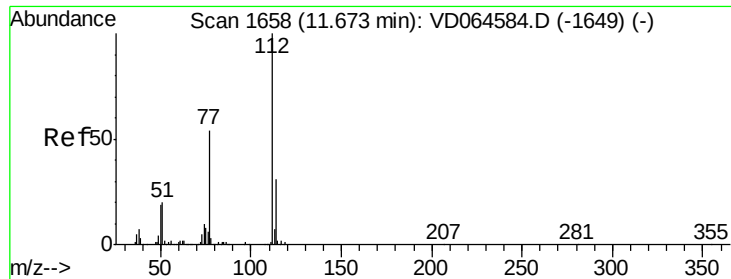
MMDadoda
1/22/2020 10:49:30 AM



#64
Tetrachloroethene
Concen: 21.459 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	74694		
166	126.5		101.3	151.9
129	85.2		70.5	105.7
131	79.3		66.6	99.8





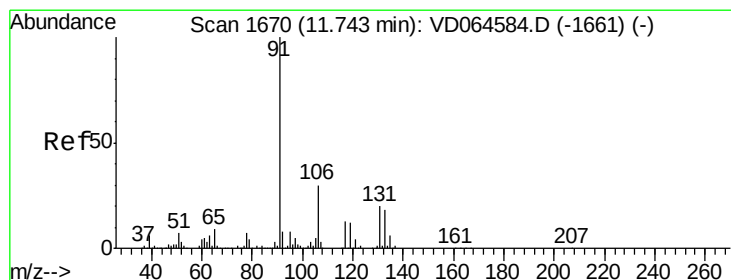
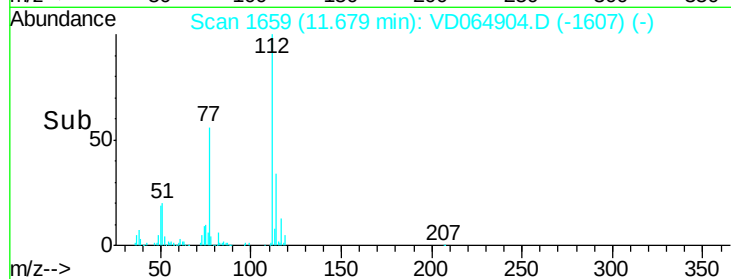
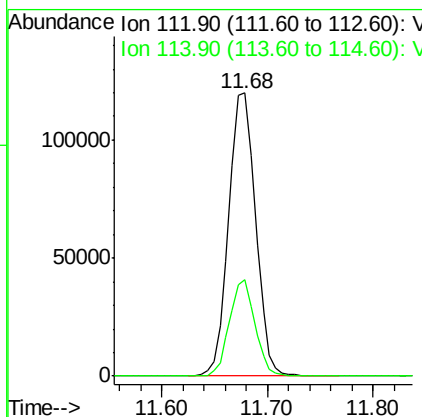
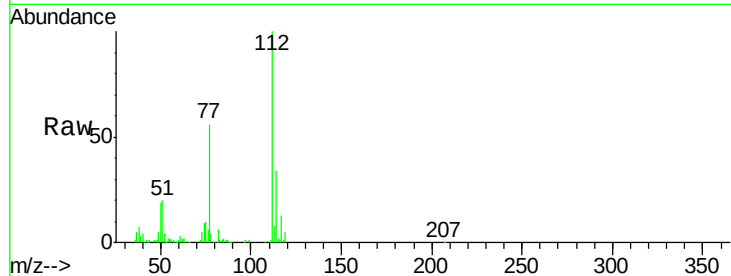
#65
Chlorobenzene
Concen: 22.454 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.3	24.8	37.2

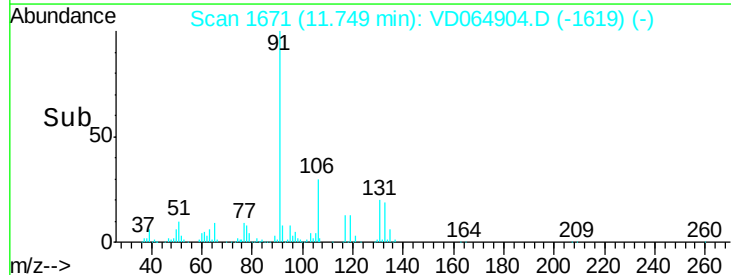
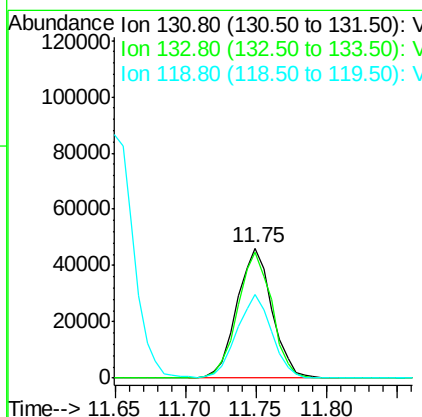
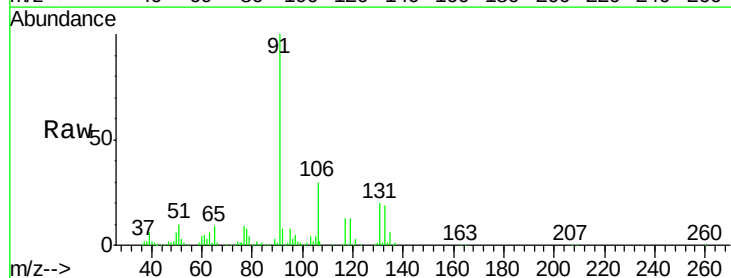
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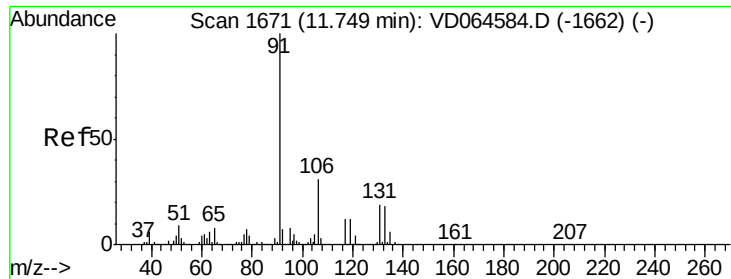
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.562 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.3	144.8
119	64.0	32.1	96.3





#67

Ethyl Benzene

Concen: 22.050 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion: 91 Resp: 376879

Ion Ratio Lower Upper

91 100

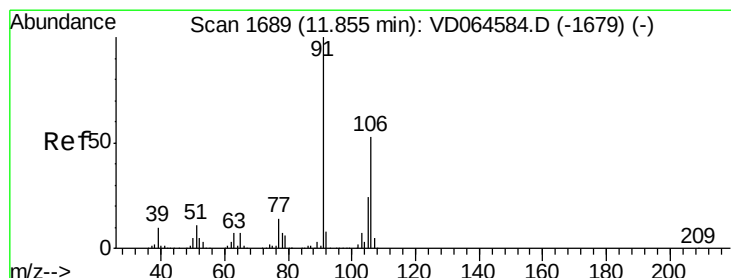
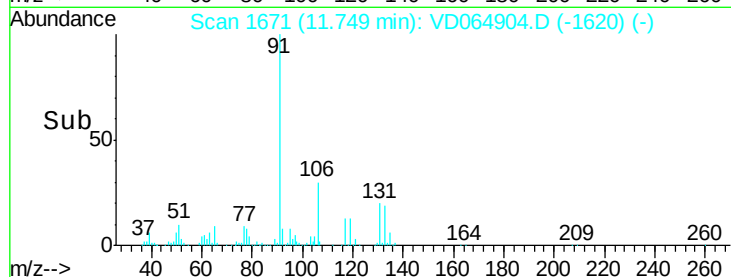
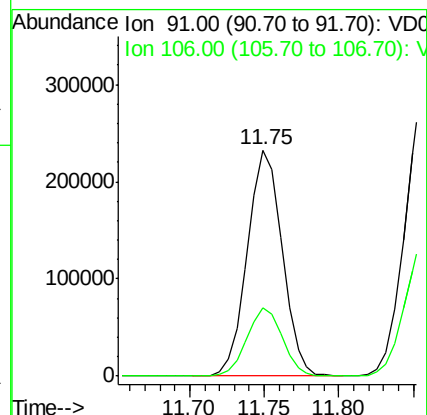
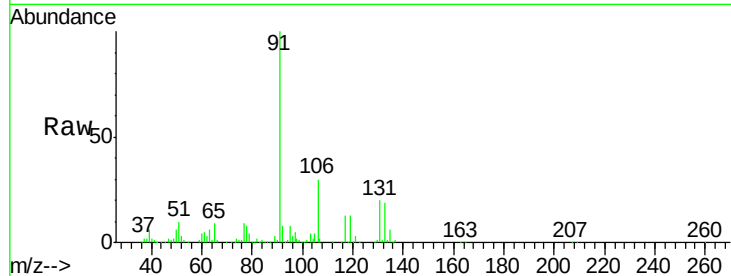
106 30.1 24.6 36.8

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#68

m/p-Xylenes

Concen: 43.363 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VD064904.D

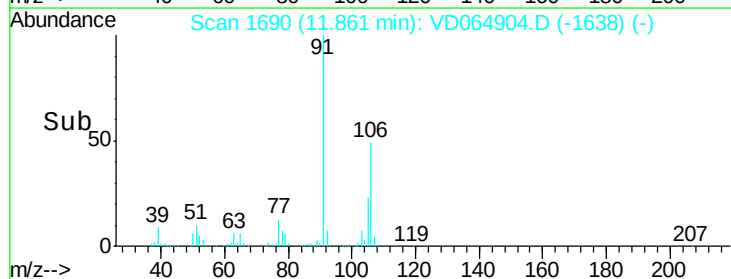
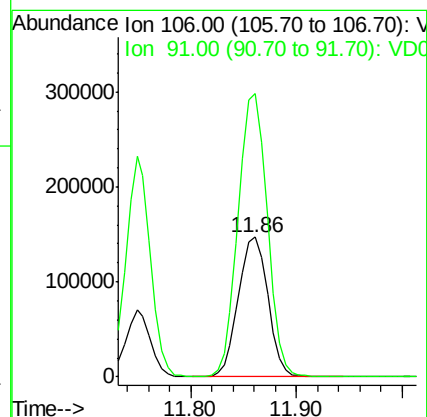
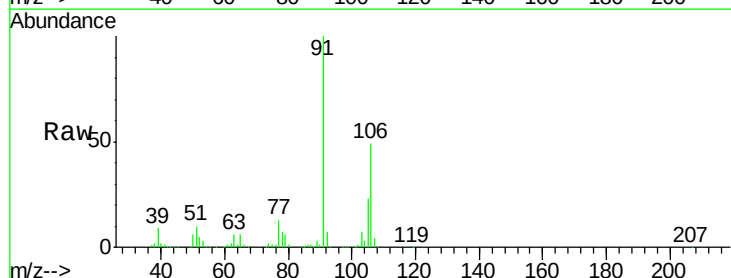
Acq: 21 Jan 2020 11:19

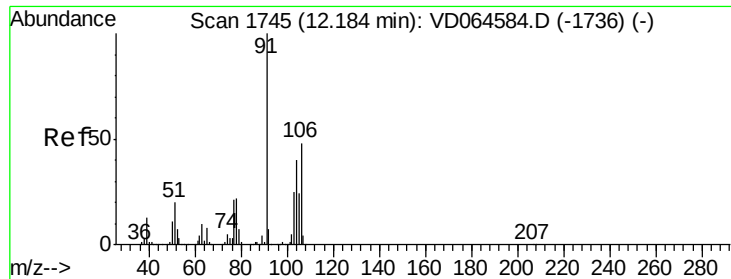
Tgt Ion: 106 Resp: 286069

Ion Ratio Lower Upper

106 100

91 200.0 156.3 234.5





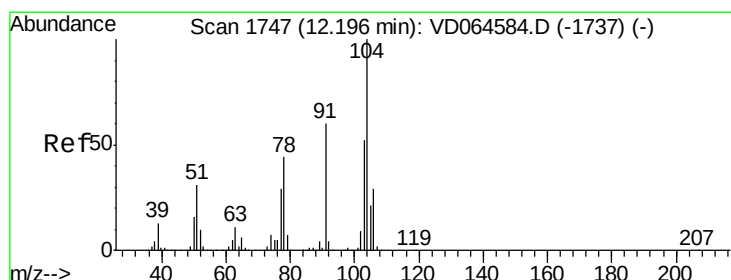
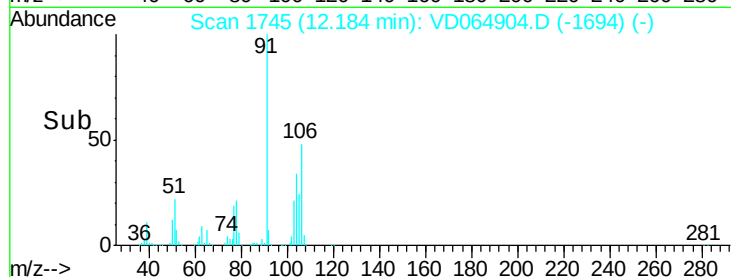
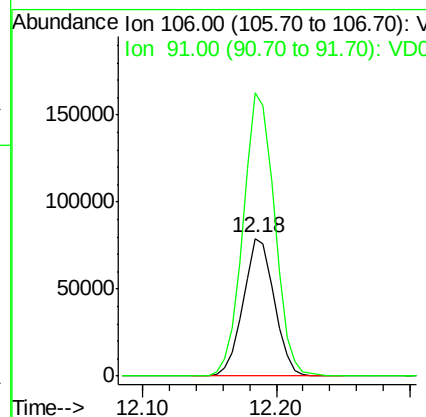
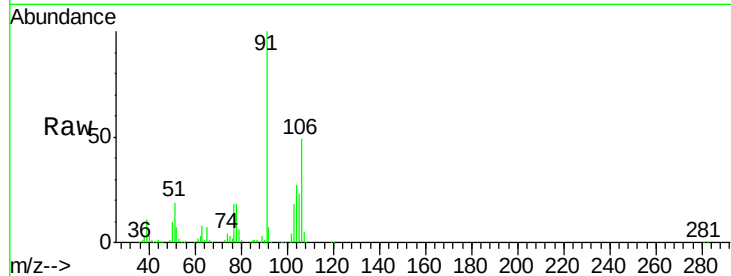
#69
o-Xylene
Concen: 21.292 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	209.3	104.8	314.4		

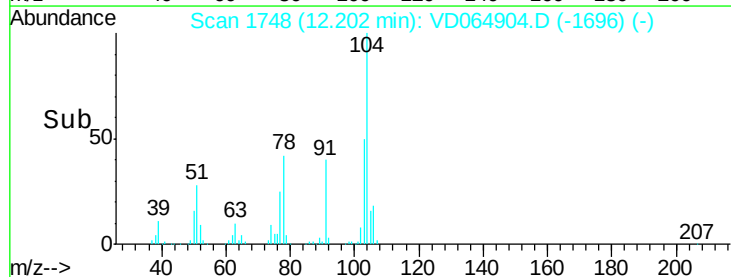
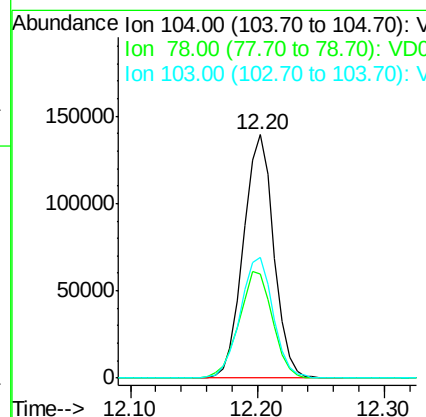
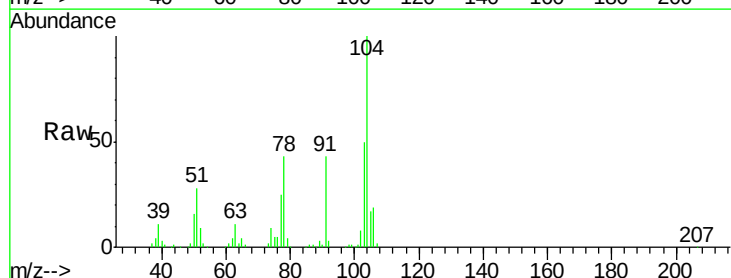
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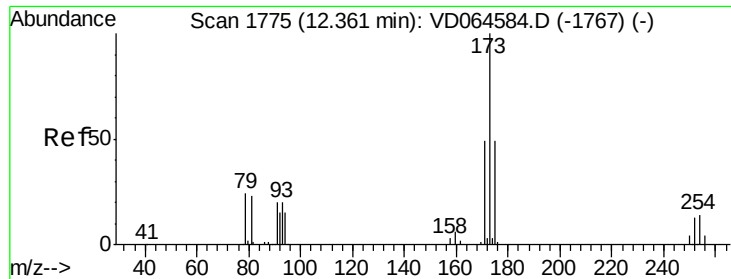
MMDadoda
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#70
Styrene
Concen: 22.160 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	48.3	38.2	57.2		
103	53.6	44.6	67.0		





#71

Bromoform

Concen: 22.520 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:173 Resp: 45590

Ion Ratio Lower Upper

173 100

175 47.9 24.6 73.8

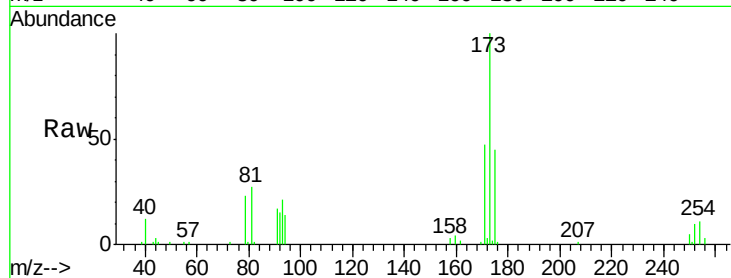
254 0.0 0.1 0.1#

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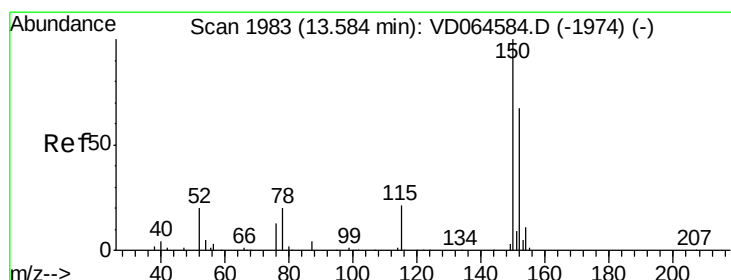
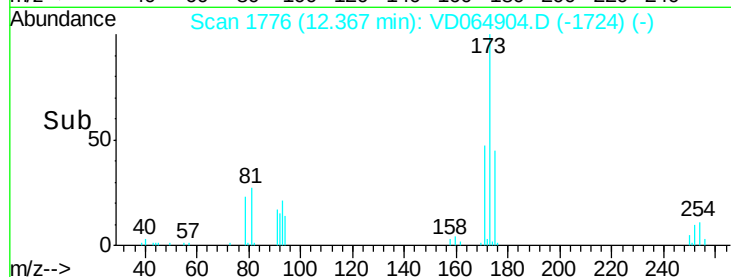
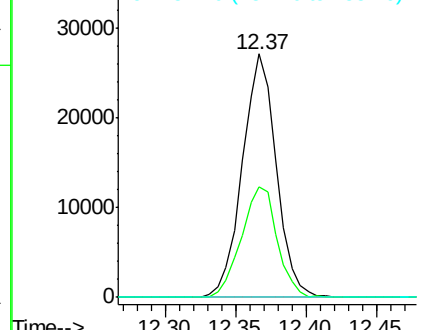
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

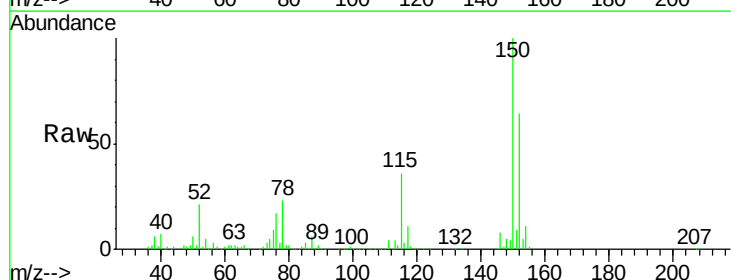
Tgt Ion:152 Resp: 227741

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

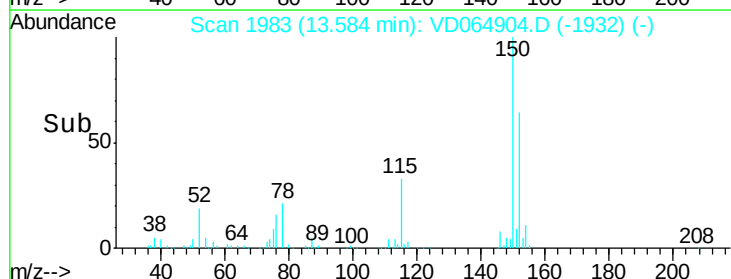
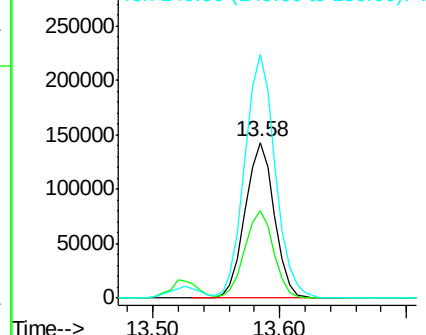
150 164.6 0.0 351.4

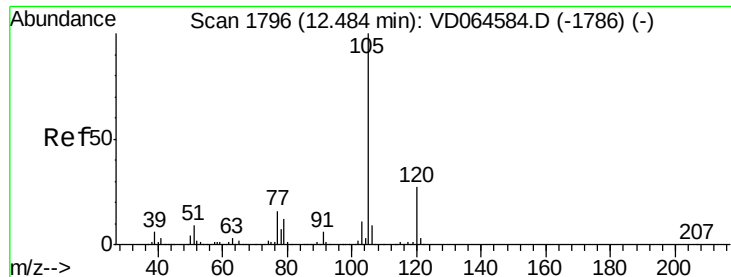


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





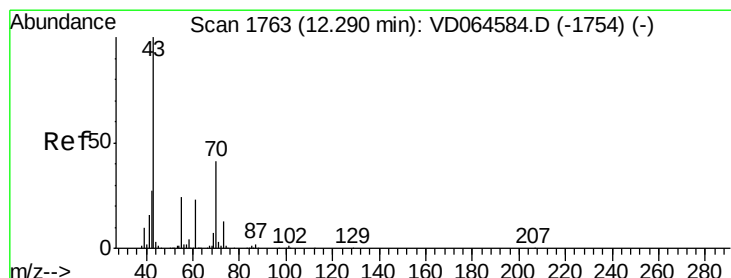
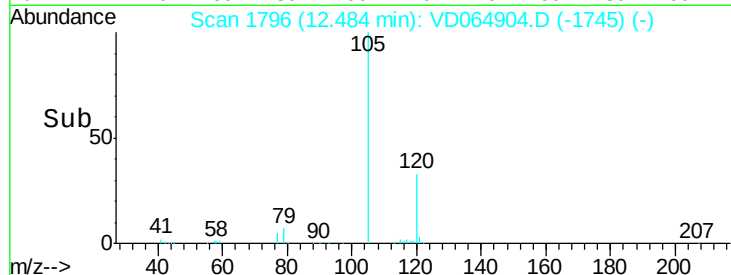
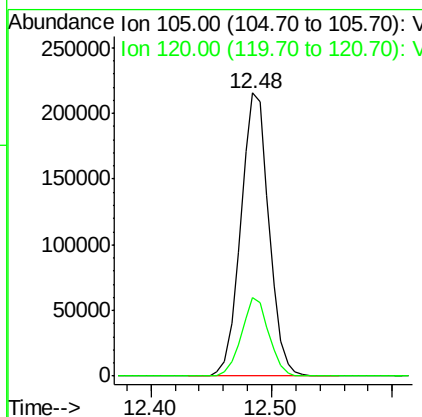
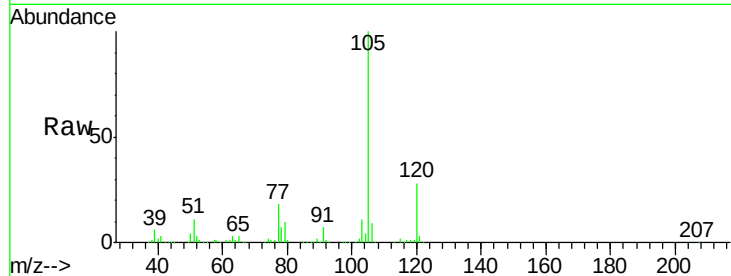
#73
Isopropylbenzene
Concen: 21.520 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.5

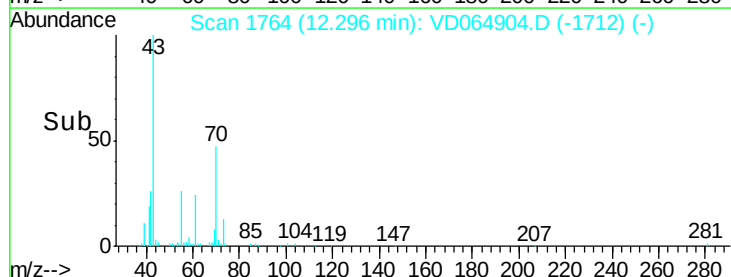
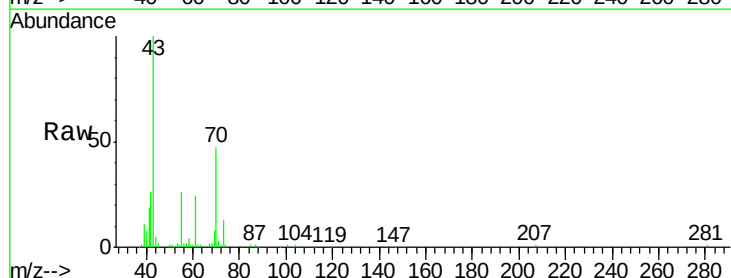
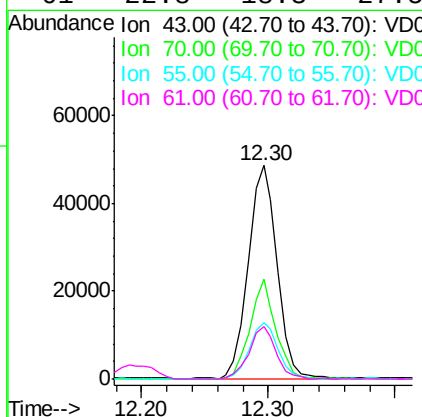
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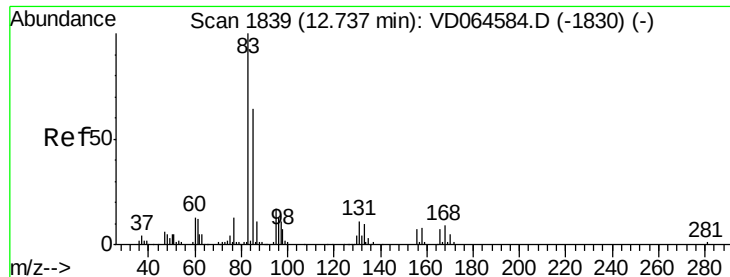
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#74
N-ethyl acetate
Concen: 22.199 ug/l
RT: 12.30 min Scan# 1764
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.8	33.4	50.0
55	26.0	19.4	29.0
61	22.8	18.3	27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 23.804 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

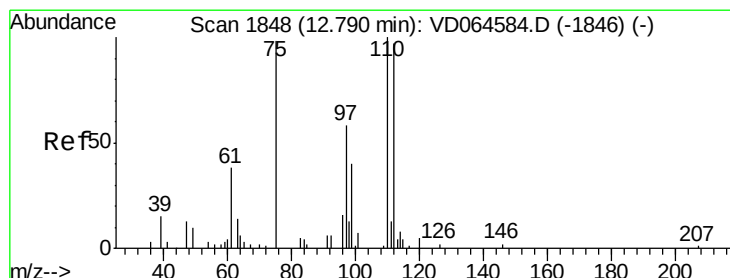
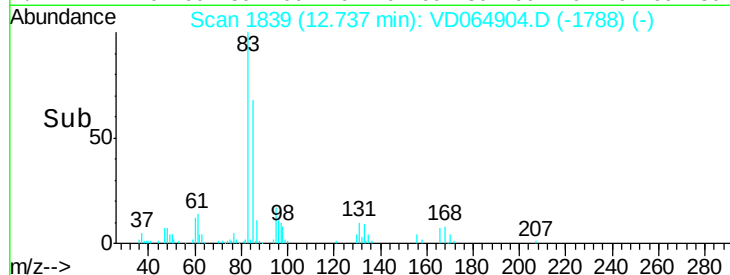
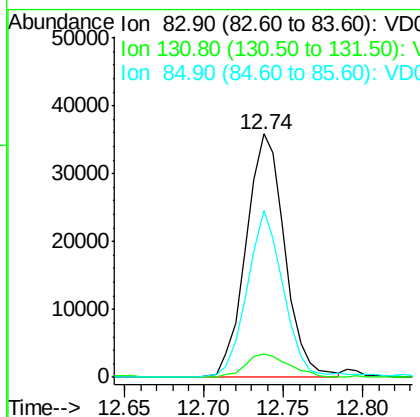
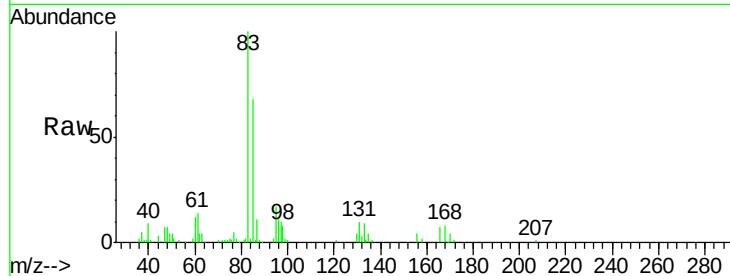
ClientSampleId :

VD0121SBSD01

Tot Ion:	83	Resp:	60857
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.8	17.4
85	63.3	32.3	96.9

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1/22/2020 10:49:30 AM



#76

1,2,3-Trichloropropane

Concen: 17.706 ug/l m

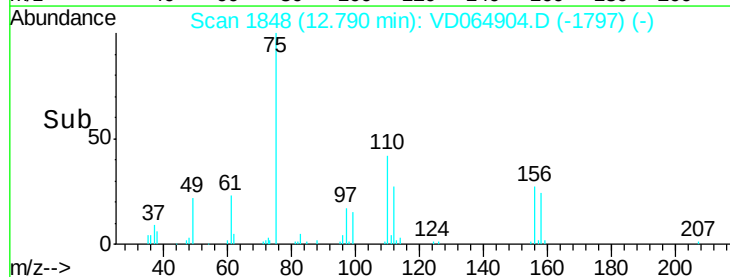
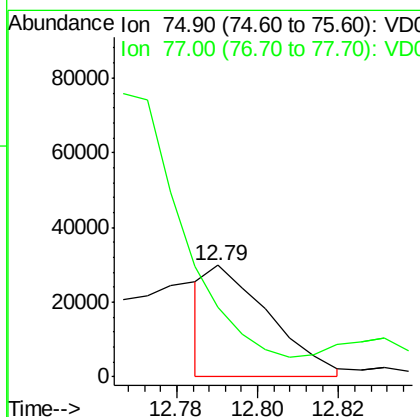
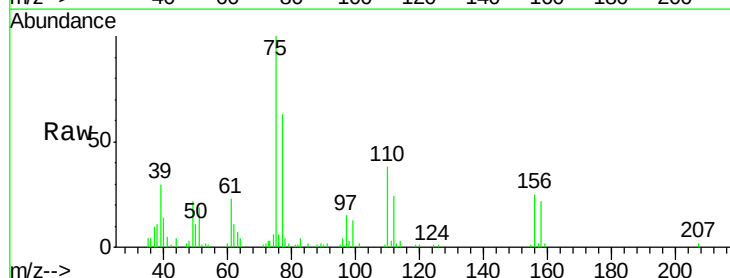
RT: 12.79 min Scan# 1848

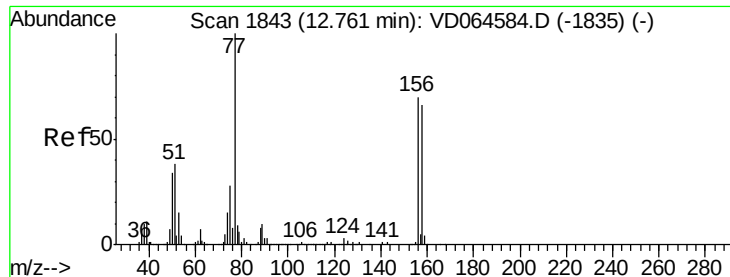
Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	75	Resp:	31843
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.753 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:156 Resp: 86991

Ion Ratio Lower Upper

156 100

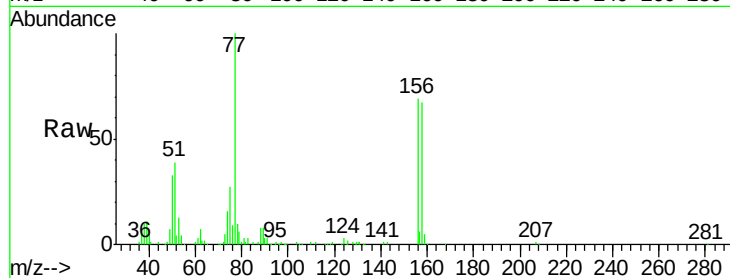
77 167.4 80.9 242.7

158 98.4 48.0 144.2

Manual Integrations
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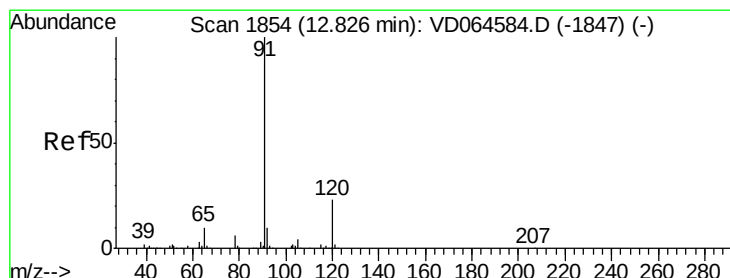
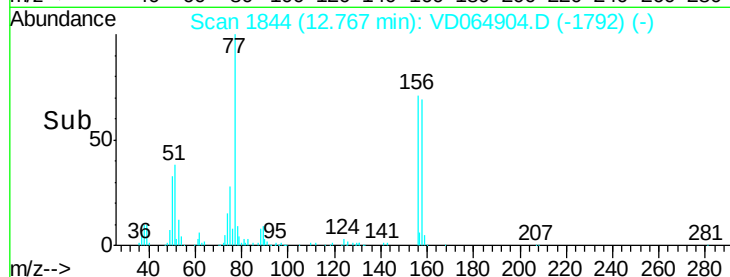
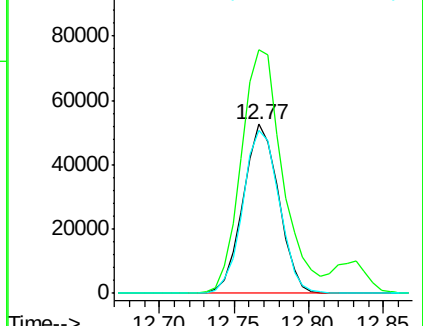
1/22/2020 10:49:30 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.841 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064904.D

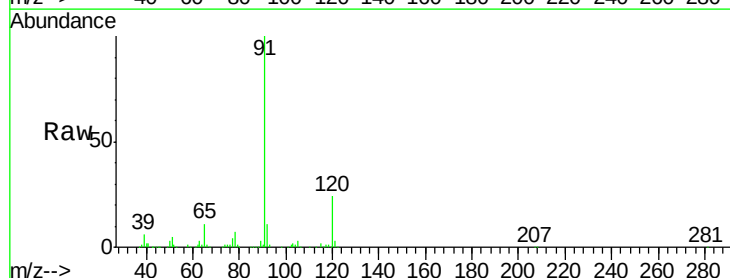
Acq: 21 Jan 2020 11:19

Tgt Ion: 91 Resp: 414696

Ion Ratio Lower Upper

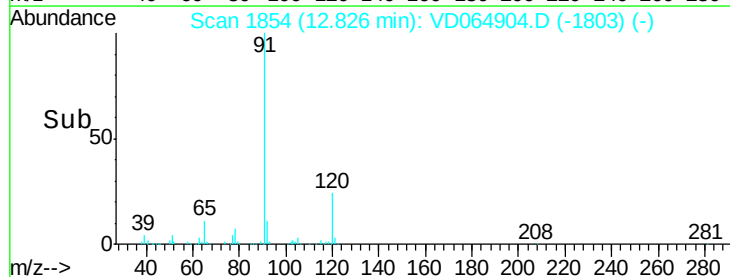
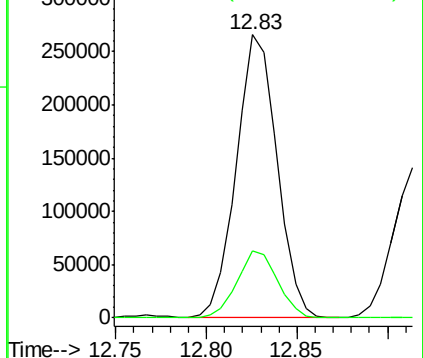
91 100

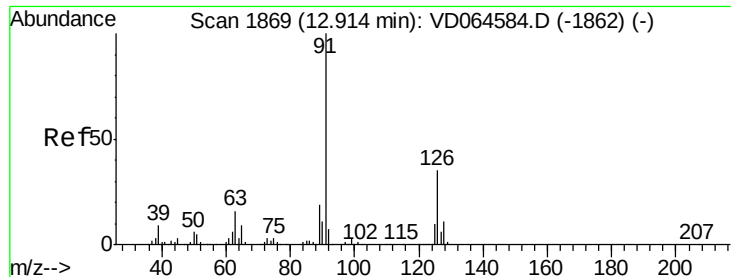
120 23.7 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.097 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBSD01

Tot Ion: 91 Resp: 230472

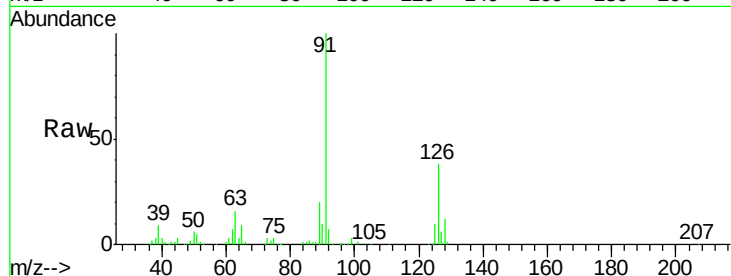
Ion Ratio Lower Upper

91 100

126 36.2 17.8 53.5

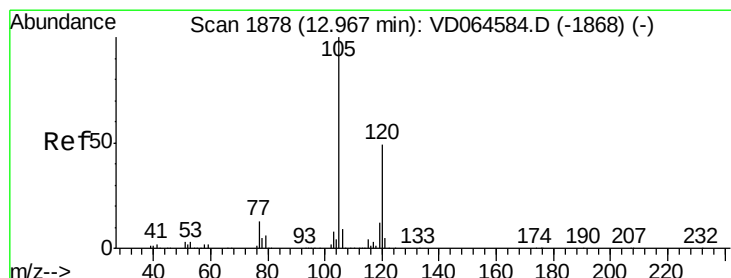
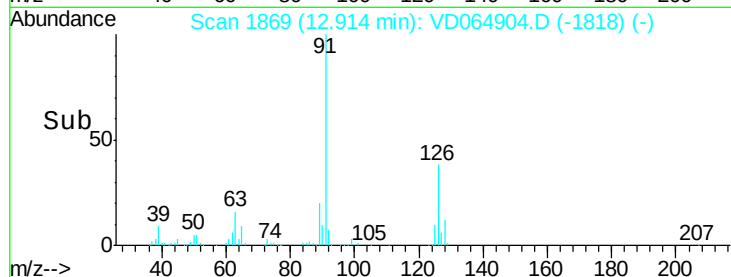
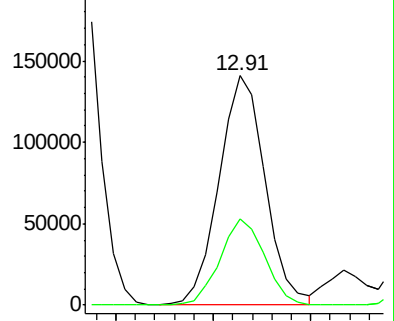
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 21.849 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064904.D

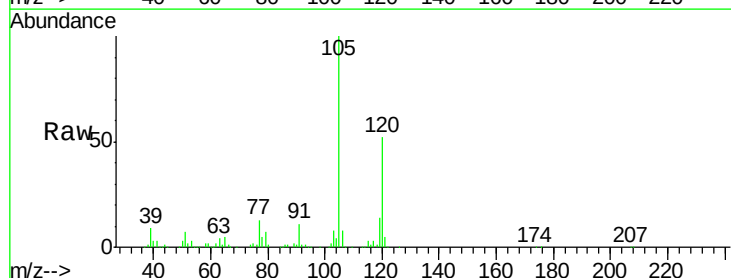
Acq: 21 Jan 2020 11:19

Tgt Ion: 105 Resp: 292098

Ion Ratio Lower Upper

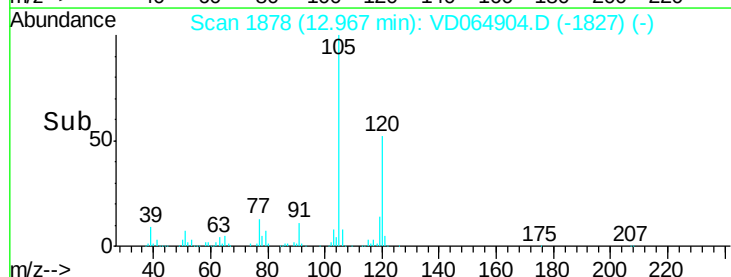
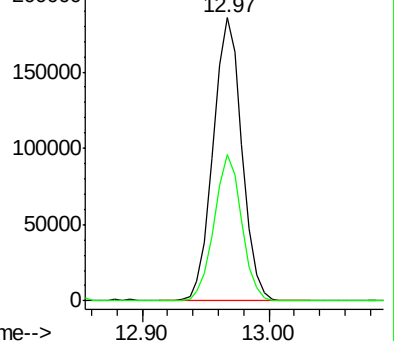
105 100

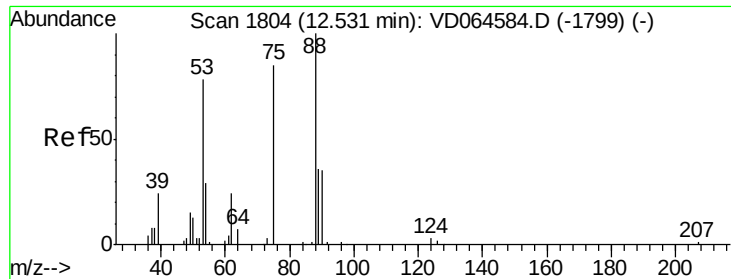
120 49.4 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 23.563 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

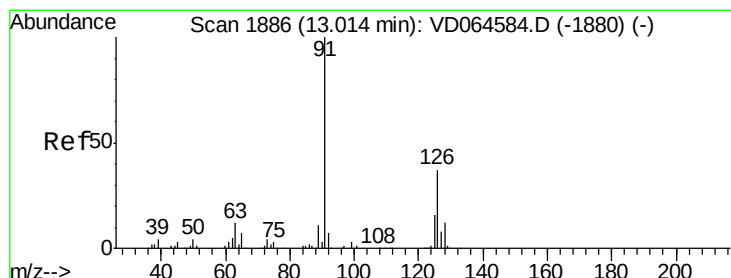
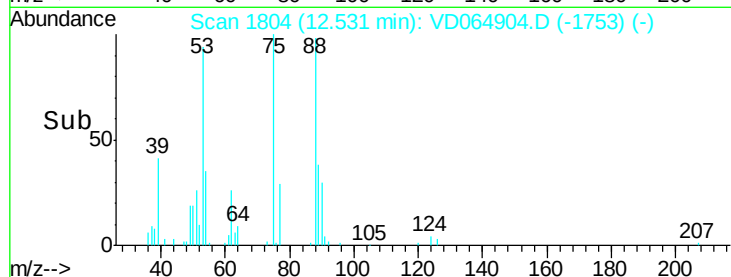
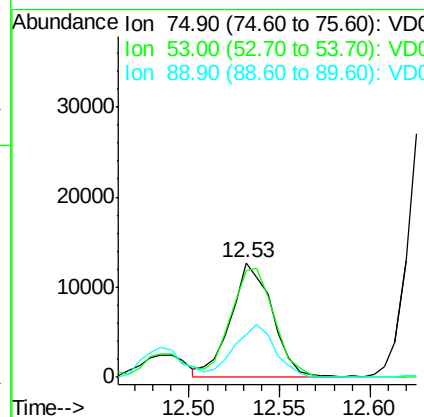
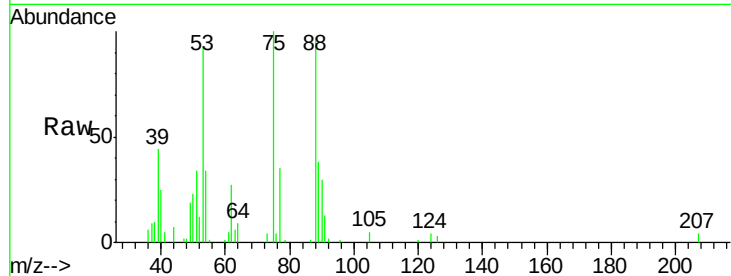
ClientSampleId :

VD0121SBS01

Tot Ion:	75	Resp:	20261
Ion	Ratio	Lower	Upper
75	100		
53	98.6	78.8	118.2
89	45.0	38.3	57.5

Manual Integrations
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#82

4-Chlorotoluene

Concen: 22.131 ug/l

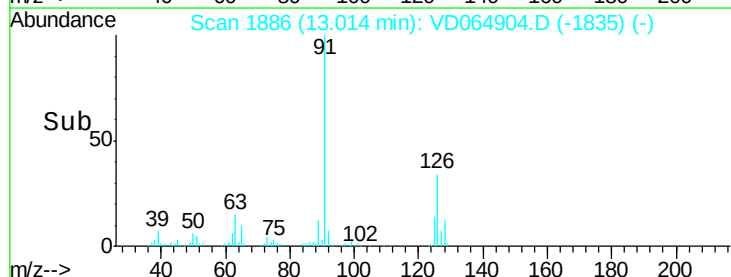
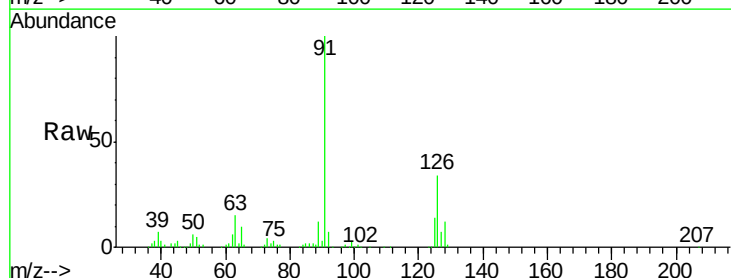
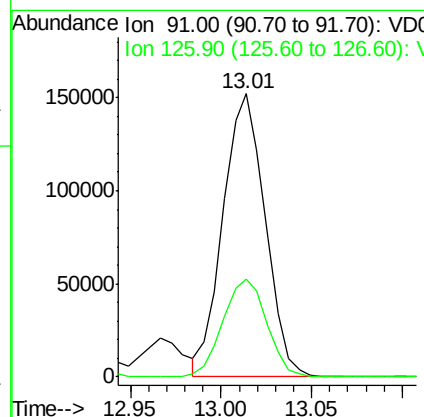
RT: 13.01 min Scan# 1886

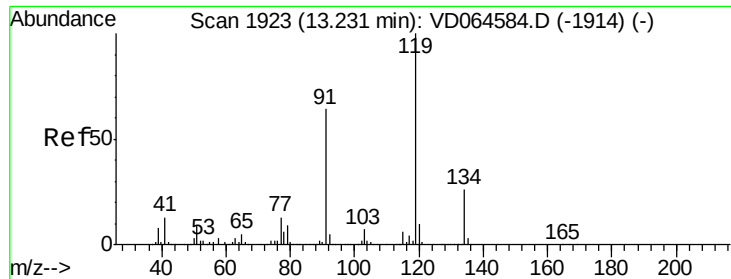
Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	91	Resp:	245643
Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.8	53.5





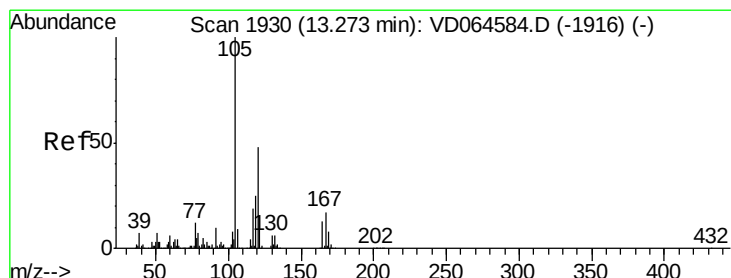
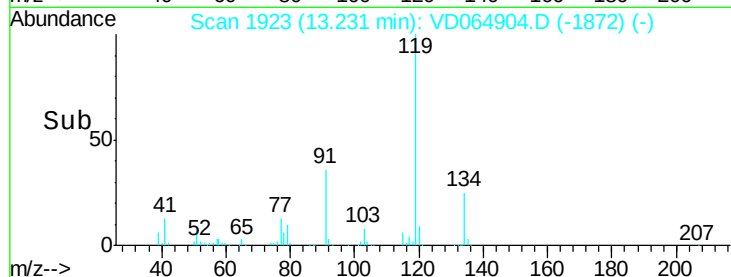
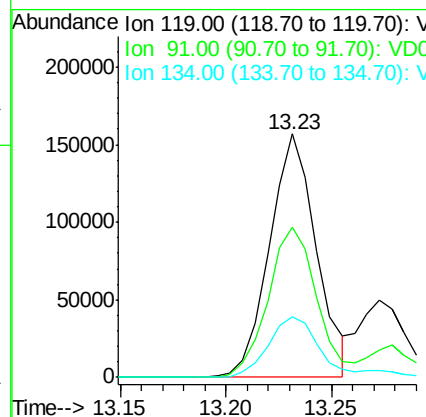
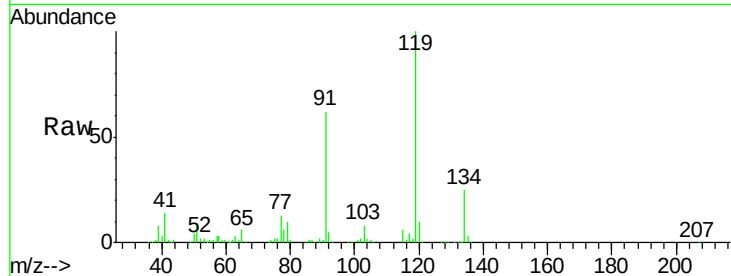
#83
 tert-Butylbenzene
 Concen: 20.918 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	242809		
91	64.4		30.8	92.4
134	28.2		12.8	38.3

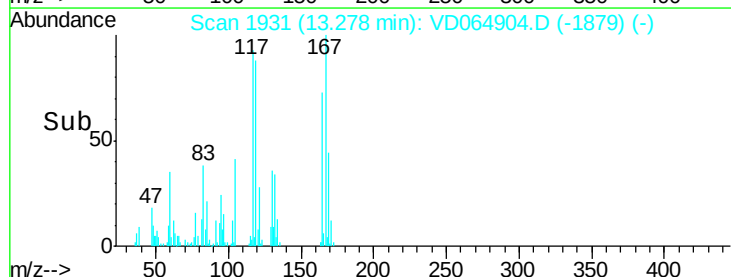
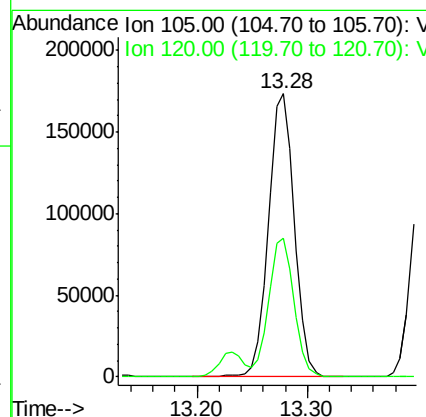
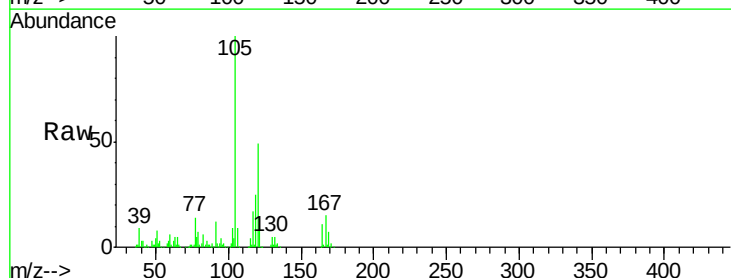
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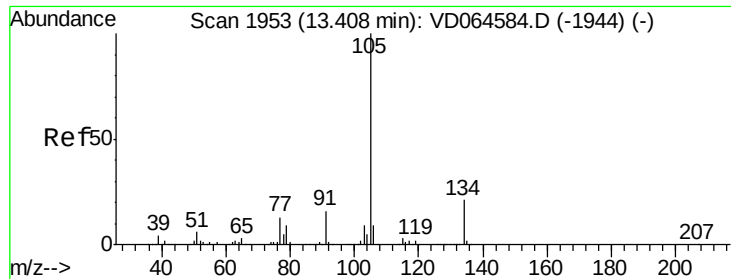
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.466 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	285817		
120	47.3		23.8	71.2





#85

sec-Butylbenzene

Concen: 21.777 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

ClientSampleId :

VD0121SBS01

Tot Ion:105 Resp: 346545

Ion Ratio Lower Upper

105 100

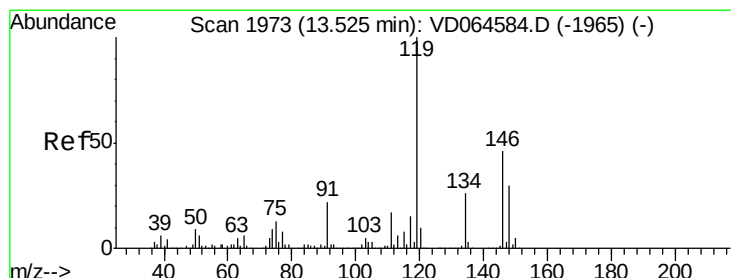
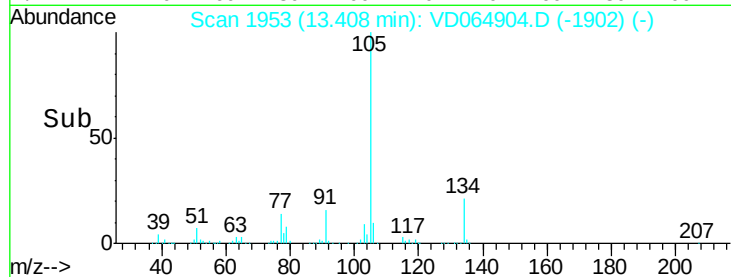
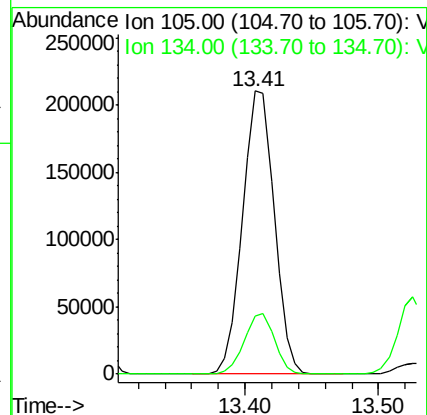
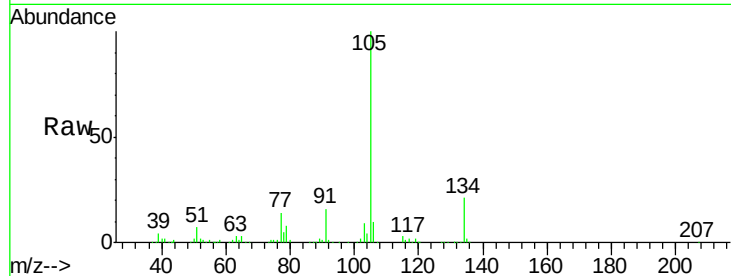
134 20.4 10.6 31.8

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#86

p-Isopropyltoluene

Concen: 21.233 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

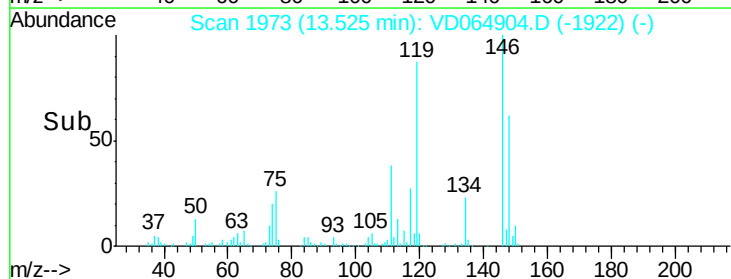
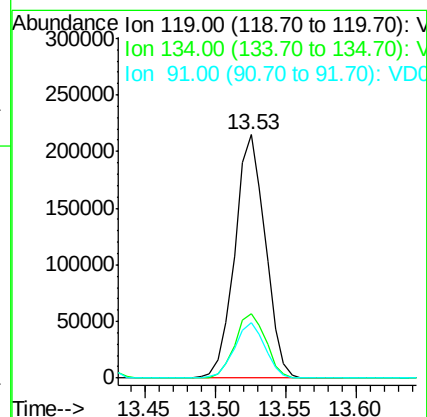
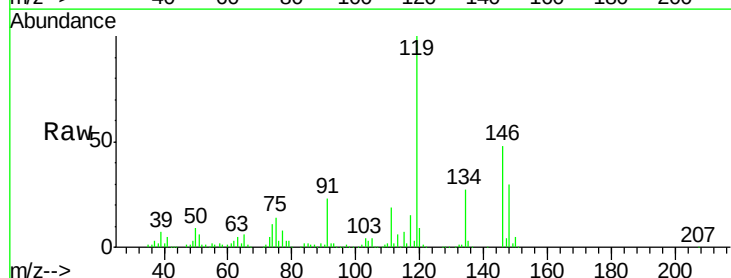
Tgt Ion:119 Resp: 323094

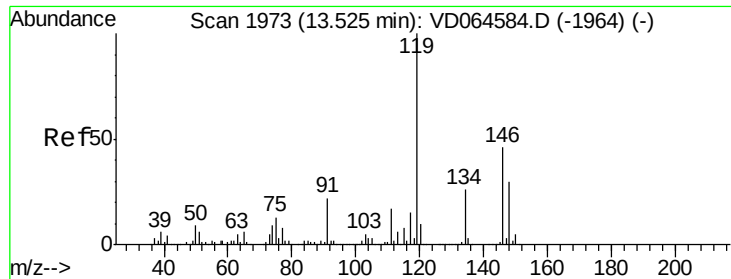
Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.1

91 22.8 11.2 33.6





#87

1,3-Dichlorobenzene

Concen: 22.115 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Instrument :

MSVOA_D

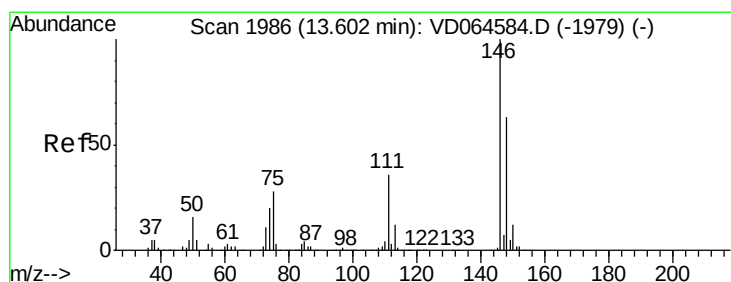
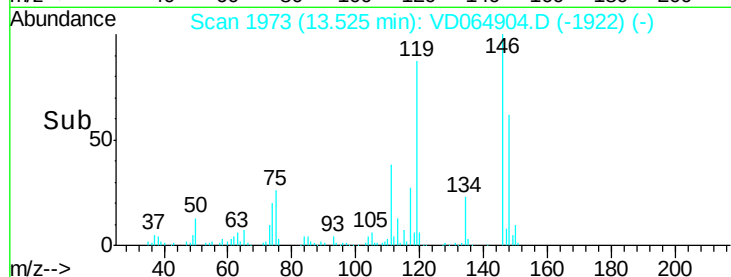
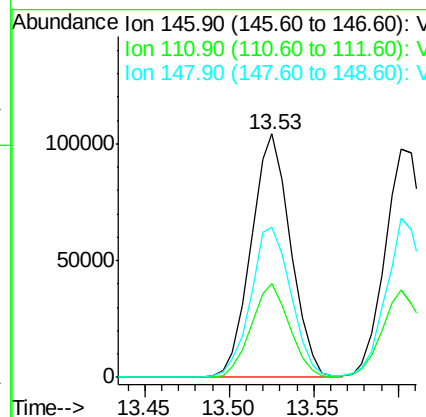
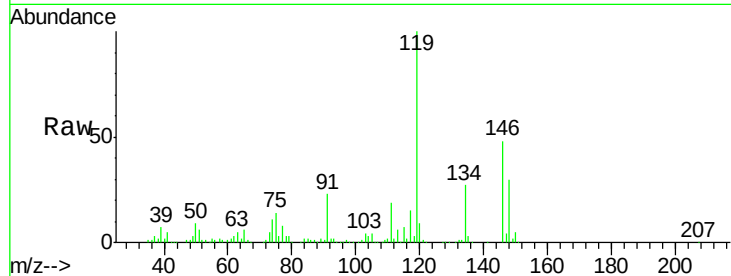
ClientSampleId :

VD0121SBS01

Tot Ion:	146	Resp:	168589
Ion Ratio	Lower	Upper	
146	100		
111	37.4	18.8	56.4
148	63.1	32.5	97.5

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#88

1,4-Dichlorobenzene

Concen: 21.604 ug/l

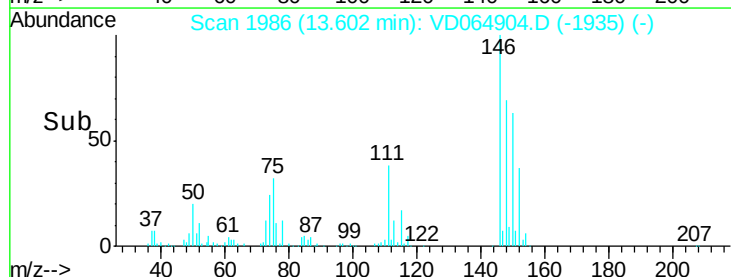
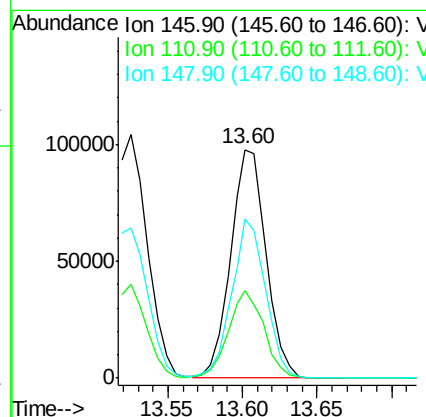
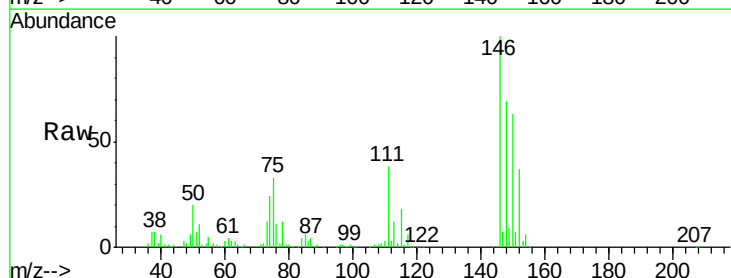
RT: 13.60 min Scan# 1986

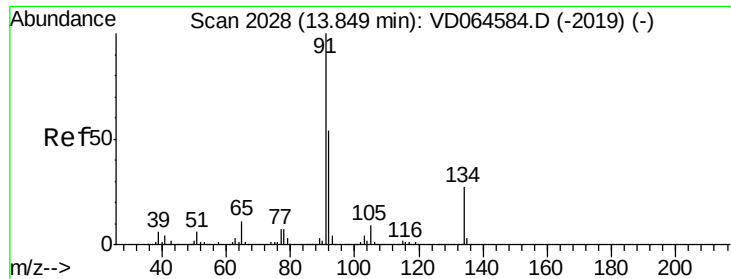
Delta R.T. 0.00 min

Lab File: VD064904.D

Acq: 21 Jan 2020 11:19

Tgt Ion:	146	Resp:	161794
Ion Ratio	Lower	Upper	
146	100		
111	38.4	18.1	54.1
148	66.6	32.3	96.9





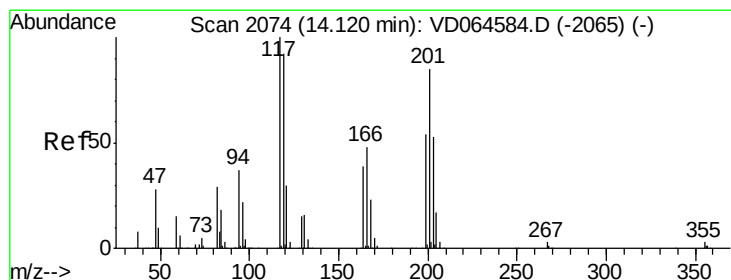
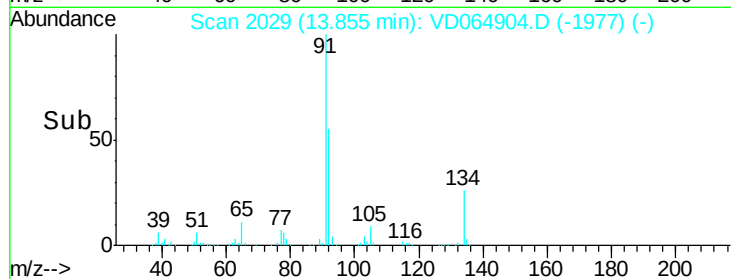
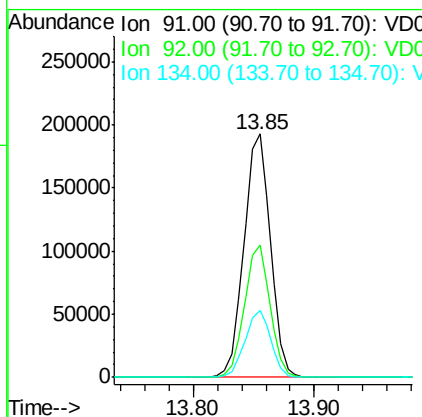
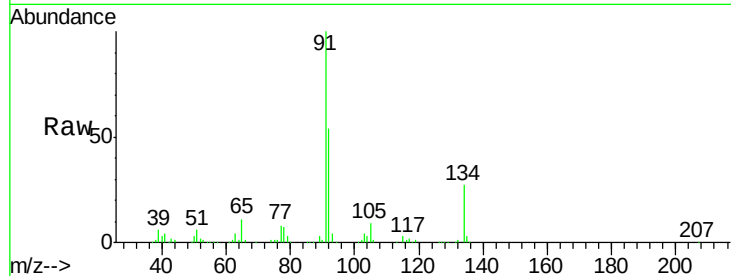
#89
n-Butylbenzene
Concen: 21.526 ug/l
RT: 13.85 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	294972		
92	52.8		26.8	80.4
134	26.8		14.0	41.9

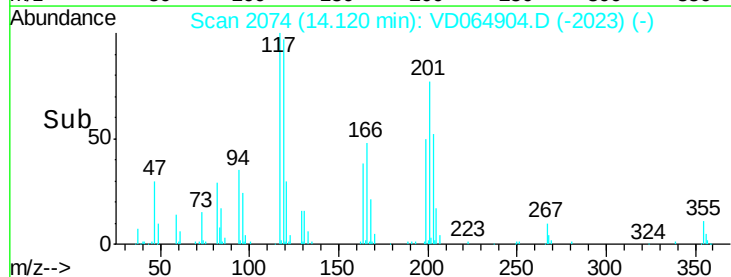
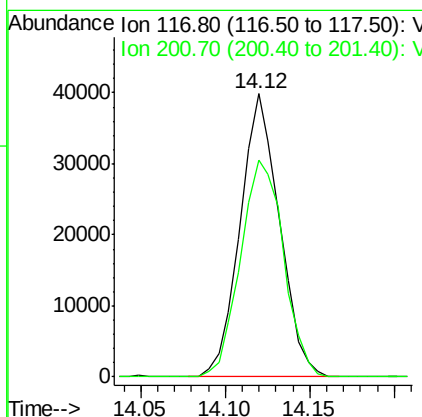
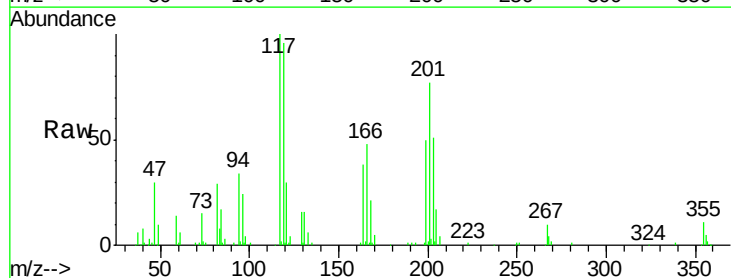
Manual Integrations
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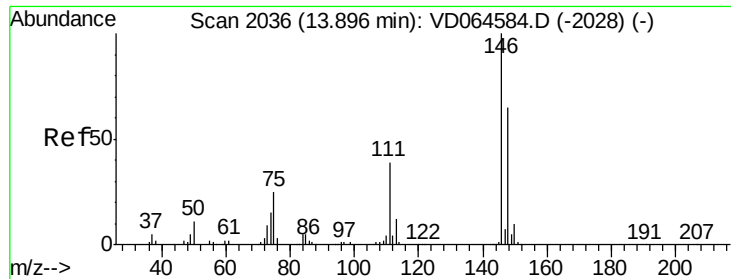
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#90
Hexachloroethane
Concen: 22.229 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	64611		
201	83.4		44.0	131.8





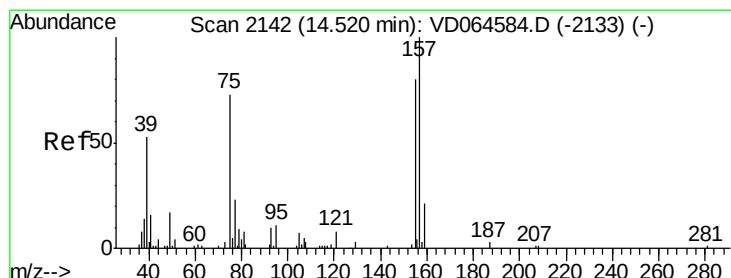
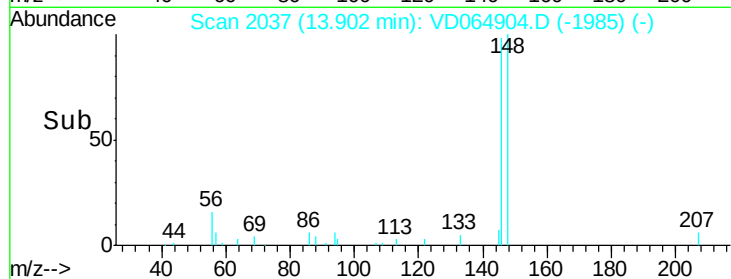
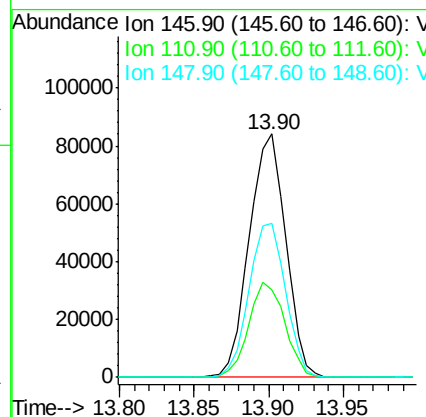
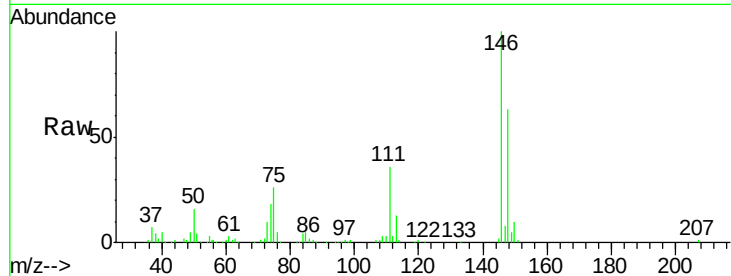
#91
 1,2-Dichlorobenzene
 Concen: 21.935 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.3	57.9
148	63.6	31.9	95.5

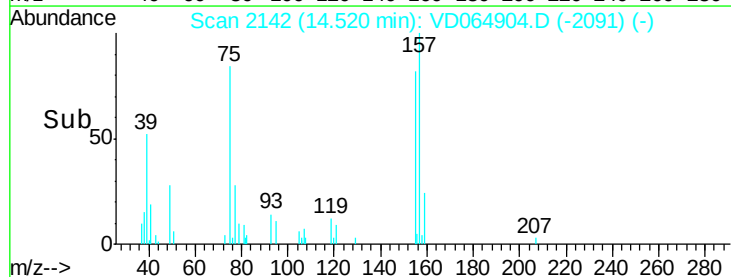
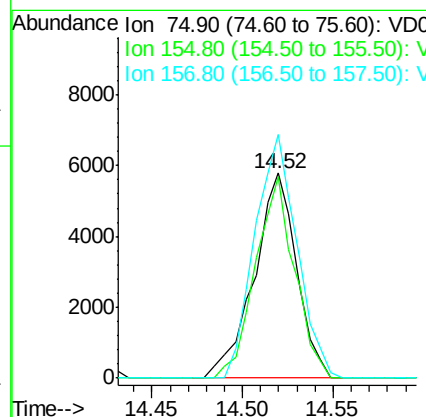
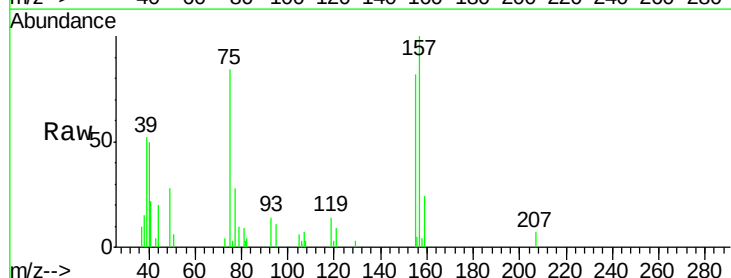
Manual Integrations
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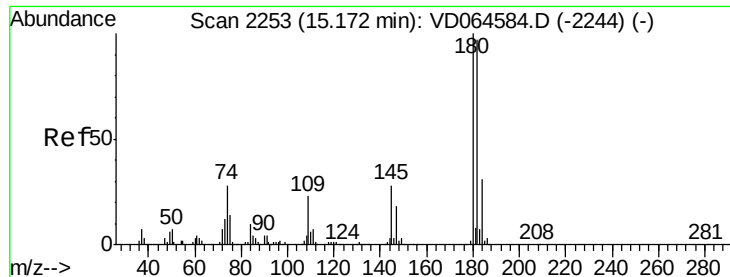
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.690 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.8	48.0	144.0
157	117.8	64.1	192.3





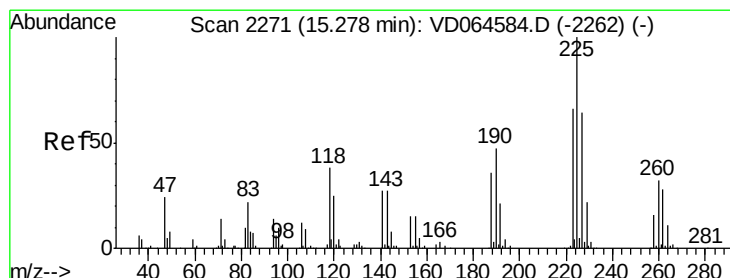
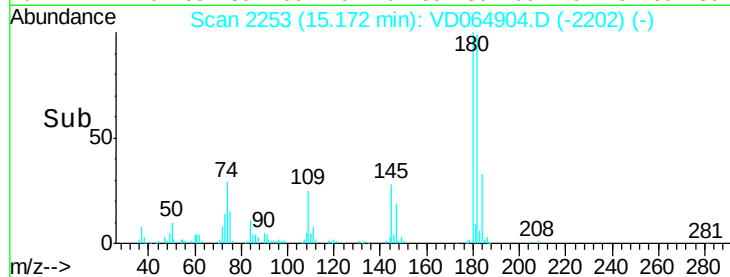
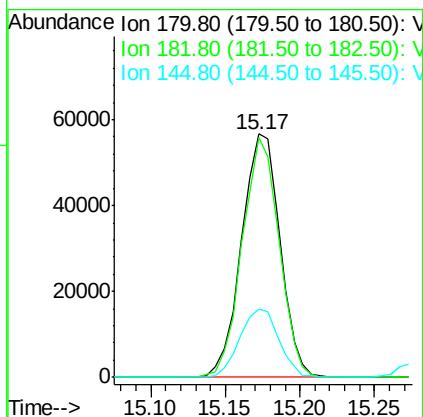
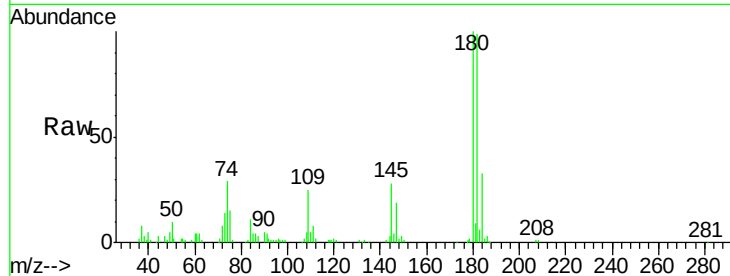
#93
 1,2,4-Trichlorobenzene
 Concen: 21.096 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	100973		
182	94.3	48.0	144.2	
145	28.6	13.8	41.4	

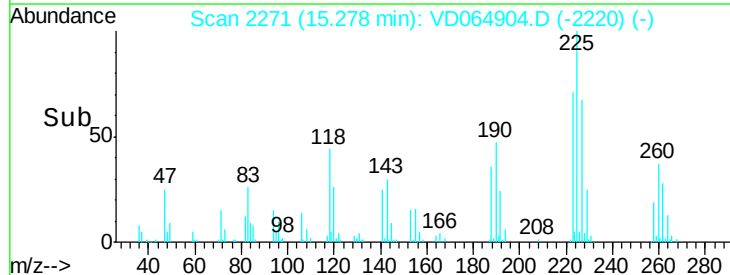
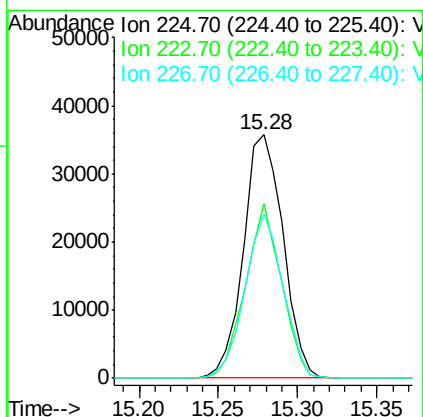
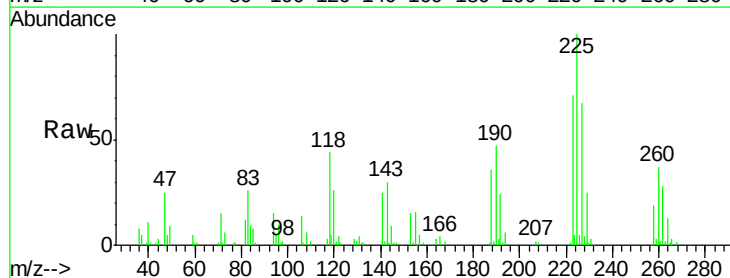
Manual Integrations
 APPROVED

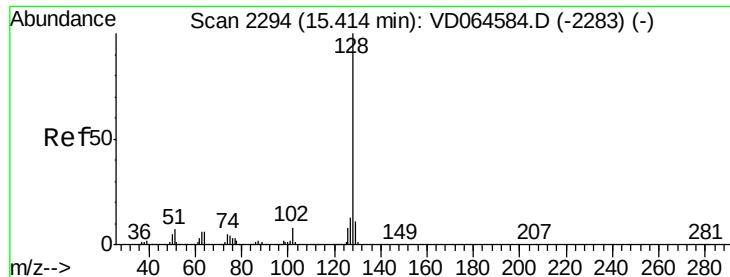
MMDadoda
 1/22/2020 10:49:30 AM



#94
 Hexachlorobutadiene
 Concen: 20.655 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064904.D
 Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	62212		
223	65.0	31.1	93.2	
227	64.9	30.9	92.7	





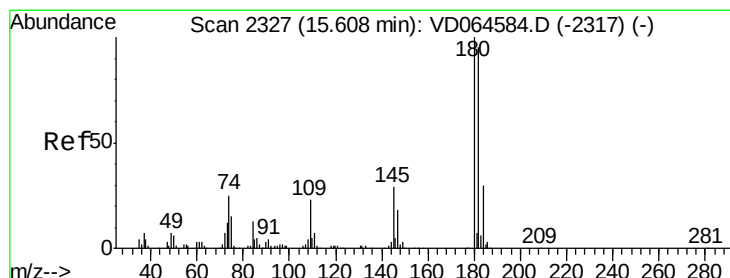
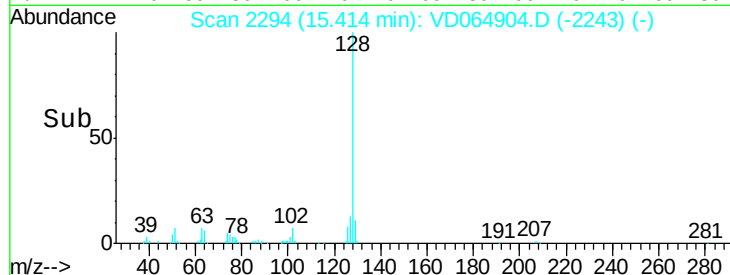
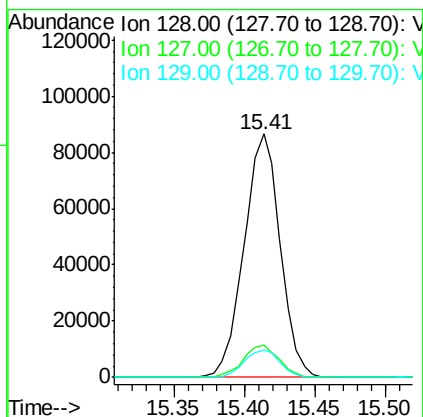
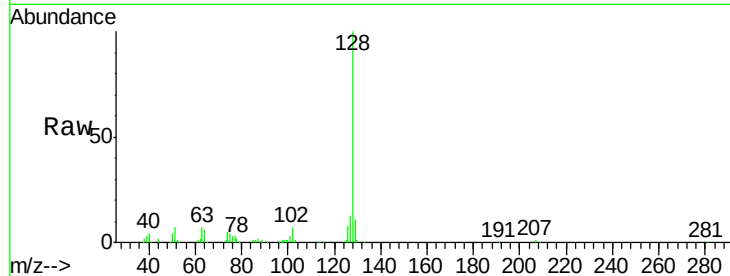
#95
Naphthalene
Concen: 20.498 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Instrument :
MSVOA_D
ClientSampleId :
VD0121SBS01

Tot Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	13.0	10.3	15.5
129	11.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/22/2020 10:49:30 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.396 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064904.D
Acq: 21 Jan 2020 11:19

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	98.2	47.9	143.7
145	29.0	14.9	44.7

