

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011320\
 Data File : VD064843.D
 Acq On : 13 Jan 2020 12:14
 Operator : VA/SY
 Sample : VD0113SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Manual Integrations
 APPROVED

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 1/14/2020 1:28:22 PM

Quant Time: Jan 14 11:43:12 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	7.99	168	419869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	614819	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	546145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	263441	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	191159	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
35) Dibromofluoromethane	7.92	113	193301	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
50) Toluene-d8	10.34	98	737799	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.64	95	232965	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	64426	19.744	ug/l	99
3) Chloromethane	2.21	50	96968	21.249	ug/l	98
4) Vinyl Chloride	2.35	62	117255	21.073	ug/l	99
5) Bromomethane	2.76	94	80077	19.793	ug/l	94
6) Chloroethane	2.91	64	76800	20.599	ug/l	95
7) Trichlorofluoromethane	3.27	101	191020	20.389	ug/l	96
8) Diethyl Ether	3.71	74	38014	20.433	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	4.08	101	84521	21.784	ug/l	98
10) Methyl Iodide	4.29	142	83722	20.088	ug/l	100
11) Tert butyl alcohol	5.24	59	22428	105.701	ug/l #	70
12) 1,1-Dichloroethene	4.06	96	78520	21.256	ug/l	96
13) Acrolein	3.91	56	21734	73.498	ug/l	95
14) Allyl chloride	4.70	41	126520	21.968	ug/l	98
15) Acrylonitrile	5.43	53	81230	104.822	ug/l	99
16) Acetone	4.16	43	86363	105.921	ug/l	99
17) Carbon Disulfide	4.40	76	236350	19.788	ug/l	98
18) Methyl Acetate	4.72	43	42620	20.447	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	171981	20.961	ug/l	97
20) Methylene Chloride	4.96	84	97161	23.023	ug/l	99
21) trans-1,2-Dichloroethene	5.46	96	90382	21.485	ug/l	98
22) Diisopropyl ether	6.37	45	249977	21.761	ug/l	97
23) Vinyl Acetate	6.31	43	678203	104.076	ug/l	99
24) 1,1-Dichloroethane	6.27	63	153443	22.250	ug/l	99
25) 2-Butanone	7.22	43	109612	107.707	ug/l	92
26) 2,2-Dichloropropane	7.21	77	145820	22.742	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	98630	21.724	ug/l	99
28) Bromochloromethane	7.55	49	54664	20.391	ug/l	96
29) Tetrahydrofuran	7.57	42	63794	100.800	ug/l	95
30) Chloroform	7.71	83	164610	22.751	ug/l	94
31) Cyclohexane	7.99	56	144924	20.994	ug/l	89
32) 1,1,1-Trichloroethane	7.90	97	151545	22.299	ug/l	99
36) 1,1-Dichloropropene	8.11	75	125163	21.151	ug/l	99
37) Ethyl Acetate	7.30	43	46731	20.102	ug/l	96
38) Carbon Tetrachloride	8.09	117	137573	21.803	ug/l	96

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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	142737	19.915	ug/l	91
40) Benzene	8.35	78	347644	21.520	ug/l	98
41) Methacrylonitrile	7.54	41	26968	19.994	ug/l	91
42) 1,2-Dichloroethane	8.43	62	102646	21.988	ug/l	97
43) Isopropyl Acetate	8.46	43	91691	19.816	ug/l	97
44) Trichloroethene	9.11	130	99784	21.026	ug/l	97
45) 1,2-Dichloropropane	9.39	63	85598	22.192	ug/l	93
46) Dibromomethane	9.48	93	45111	20.977	ug/l	98
47) Bromodichloromethane	9.67	83	124280	21.719	ug/l	99
48) Methyl methacrylate	9.46	41	42729	19.612	ug/l	94
49) 1,4-Dioxane	9.47	88	9436	380.542	ug/l #	84
51) 4-Methyl-2-Pentanone	10.23	43	228697	99.993	ug/l	99
52) Toluene	10.41	92	224728	21.204	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	114526	21.467	ug/l	94
54) cis-1,3-Dichloropropene	10.09	75	134486	21.378	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	59420	20.503	ug/l	94
56) Ethyl methacrylate	10.66	69	70362	19.440	ug/l	96
57) 1,3-Dichloropropane	10.95	76	104587	20.959	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	150696	109.283	ug/l	99
59) 2-Hexanone	10.99	43	157993	101.779	ug/l	99
60) Dibromochloromethane	11.14	129	82609	20.613	ug/l	97
61) 1,2-Dibromoethane	11.25	107	59391	20.777	ug/l	98
64) Tetrachloroethene	10.88	164	87840	20.965	ug/l	97
65) Chlorobenzene	11.67	112	238445	21.036	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.74	131	87850	20.558	ug/l	98
67) Ethyl Benzene	11.75	91	429850	20.893	ug/l	99
68) m/p-Xylenes	11.86	106	320292	40.333	ug/l	95
69) o-Xylene	12.18	106	146971	20.490	ug/l	99
70) Styrene	12.20	104	259429	20.605	ug/l	99
71) Bromoform	12.37	173	47375	19.441	ug/l #	100
73) Isopropylbenzene	12.48	105	407707	21.657	ug/l	100
74) N-amyl acetate	12.30	43	81907	20.353	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.73	83	61295	20.726	ug/l	100
76) 1,2,3-Trichloropropane	12.79	75	47434m	22.802	ug/l	
77) Bromobenzene	12.77	156	95107	20.560	ug/l	96
78) n-propylbenzene	12.83	91	475542	21.652	ug/l	99
79) 2-Chlorotoluene	12.91	91	263265	21.820	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	329486	21.306	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.54	75	21883	22.001	ug/l	98
82) 4-Chlorotoluene	13.01	91	278160	21.664	ug/l	100
83) tert-Butylbenzene	13.23	119	283912	21.144	ug/l	96
84) 1,2,4-Trimethylbenzene	13.27	105	330463	21.456	ug/l	99
85) sec-Butylbenzene	13.41	105	400537	21.759	ug/l	99
86) p-Isopropyltoluene	13.53	119	364273	20.696	ug/l	100
87) 1,3-Dichlorobenzene	13.52	146	186140	21.108	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	184122	21.254	ug/l	99
89) n-Butylbenzene	13.85	91	337153	21.270	ug/l	99
90) Hexachloroethane	14.12	117	72194	21.472	ug/l	94
91) 1,2-Dichlorobenzene	13.90	146	157230	20.910	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	10809	22.546	ug/l	86

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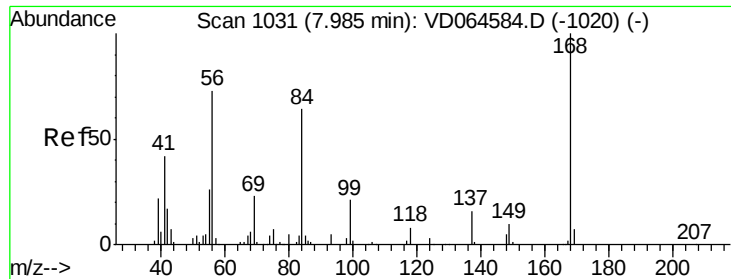
Manual Integrations
APPROVED

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1/14/2020 1:28:22 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	109623	19.799	ug/l	99
94) Hexachlorobutadiene	15.28	225	70958	20.366	ug/l	98
95) Naphthalene	15.41	128	163019	18.611	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	94117	19.912	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion:168 Resp: 419869

Ion Ratio Lower Upper

168 100

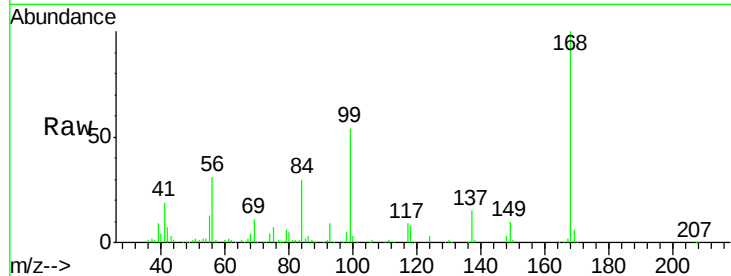
99 53.9 41.8 62.6

Manual Integrations

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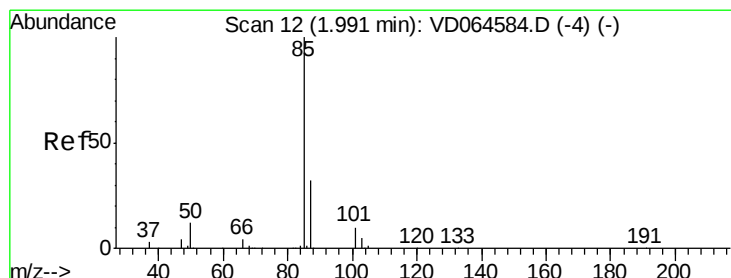
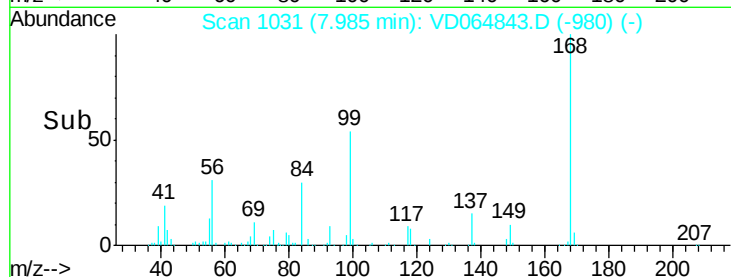
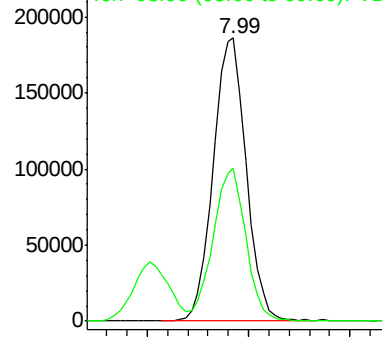
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 19.744 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064843.D

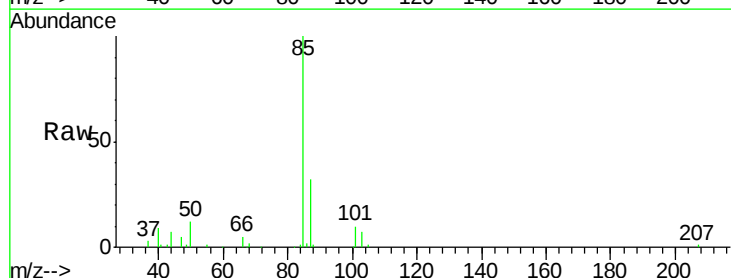
Acq: 13 Jan 2020 12:14

Tgt Ion: 85 Resp: 64426

Ion Ratio Lower Upper

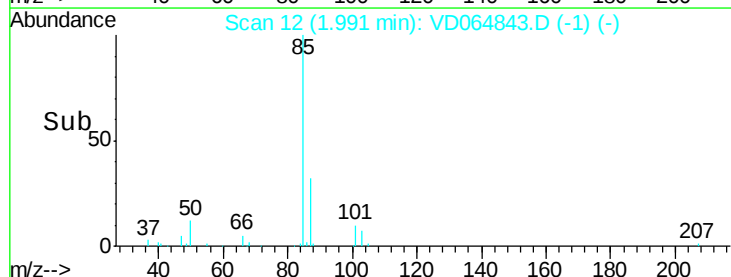
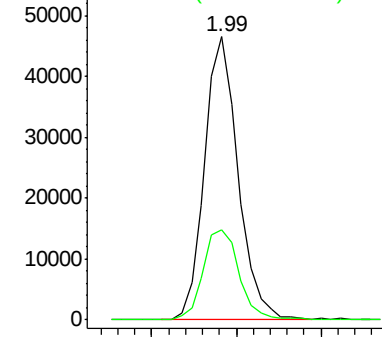
85 100

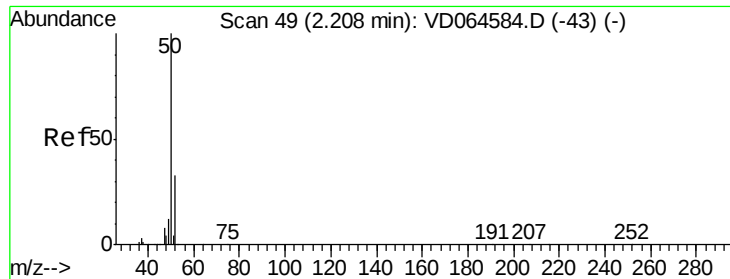
87 31.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.249 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 50 Resp: 96968

Ion Ratio Lower Upper

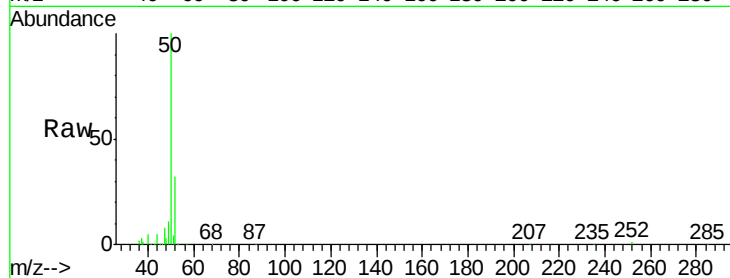
50 100

52 31.9 26.5 39.7

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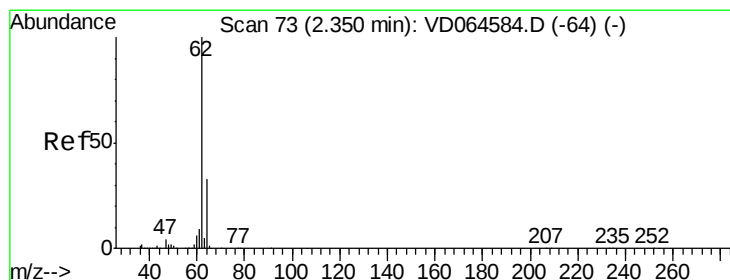
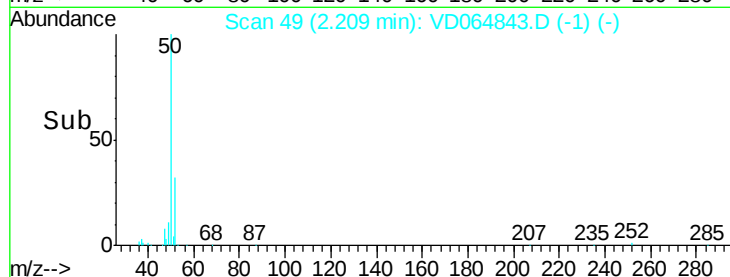
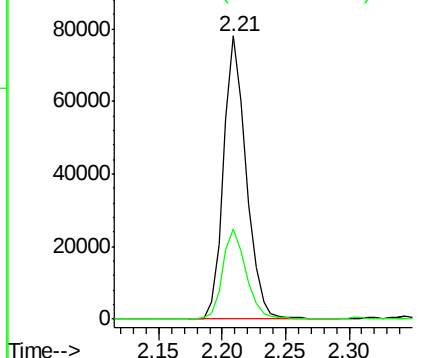
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.073 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064843.D

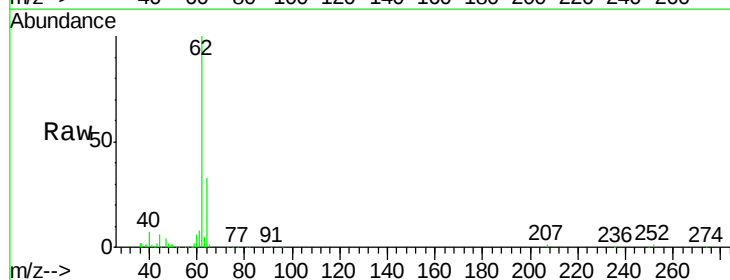
Acq: 13 Jan 2020 12:14

Tgt Ion: 62 Resp: 117255

Ion Ratio Lower Upper

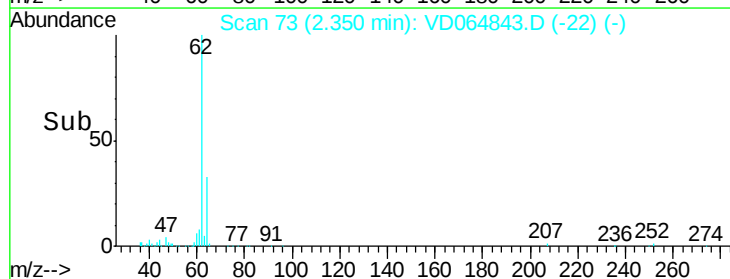
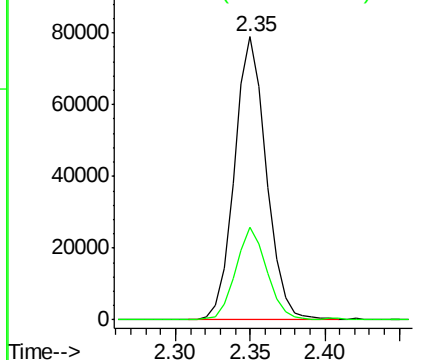
62 100

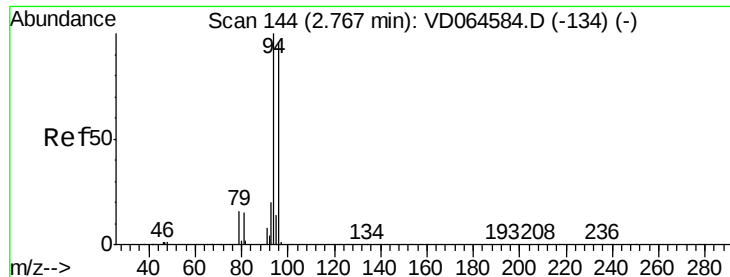
64 32.9 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 19.793 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 94 Resp: 80077

Ion Ratio Lower Upper

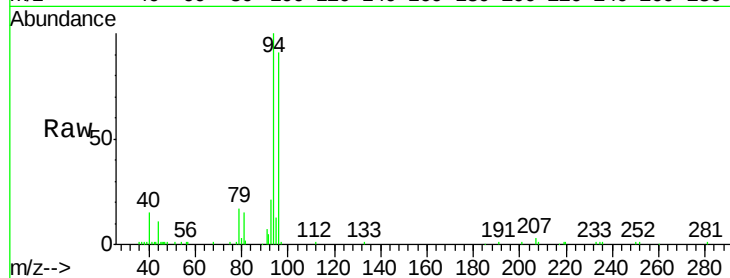
94 100

96 90.5 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

2.76

40000

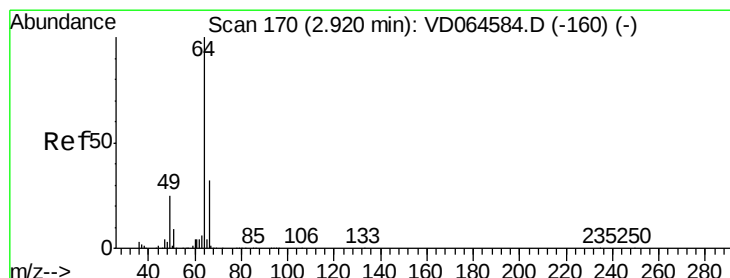
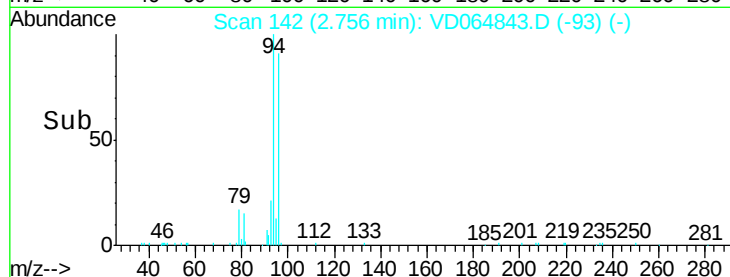
30000

20000

10000

0

Time-->



#6

Chloroethane

Concen: 20.599 ug/l

RT: 2.91 min Scan# 169

Delta R.T. -0.01 min

Lab File: VD064843.D

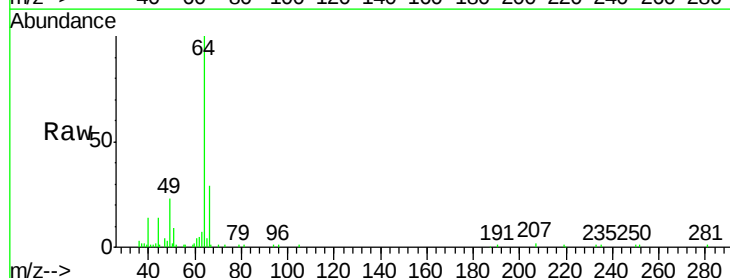
Acq: 13 Jan 2020 12:14

Tgt Ion: 64 Resp: 76800

Ion Ratio Lower Upper

64 100

66 29.5 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.91

40000

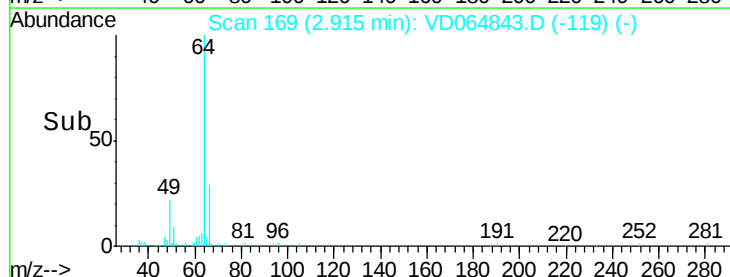
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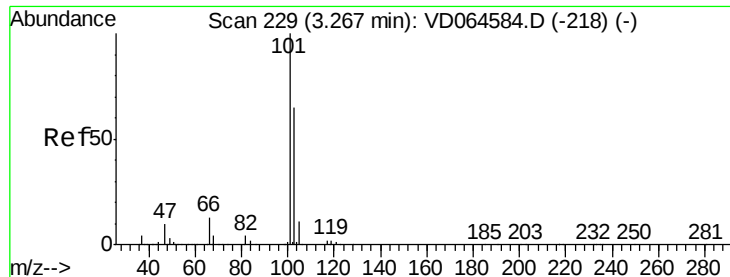
20000

10000

0

Time-->





#7

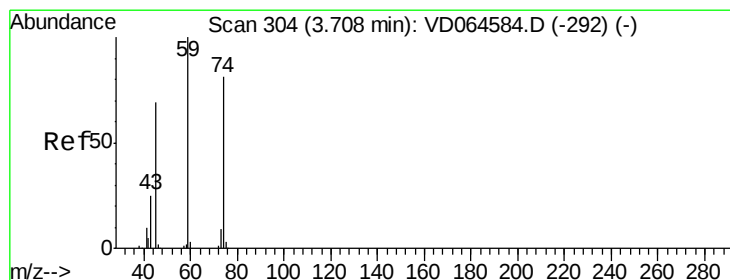
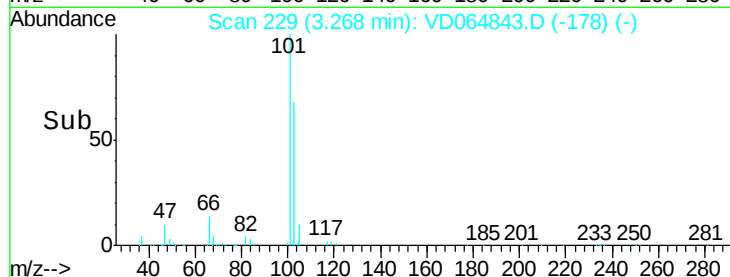
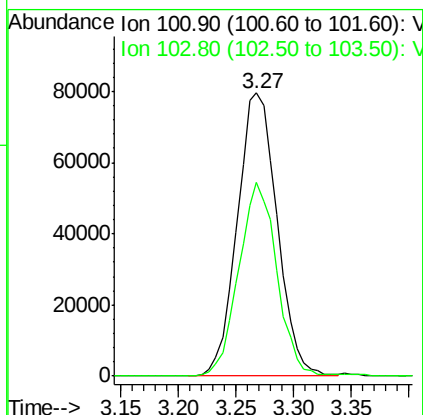
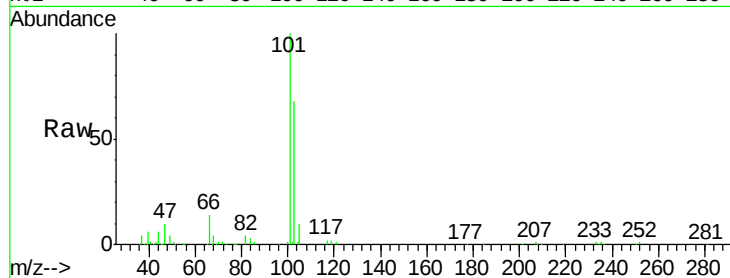
Trichlorofluoromethane
Concen: 20.389 ug/l
RT: 3.27 min Scan# 229
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
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ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.4	52.2	78.4

Manual Integrations
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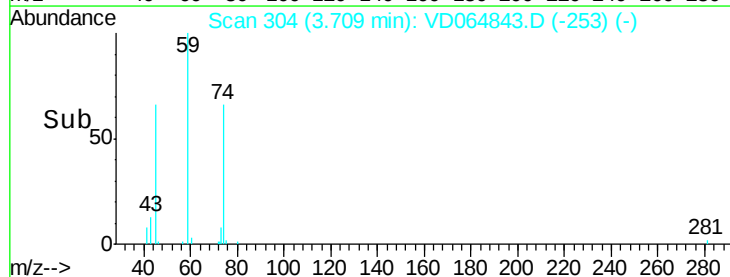
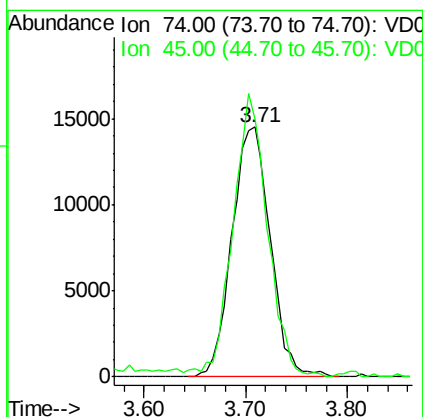
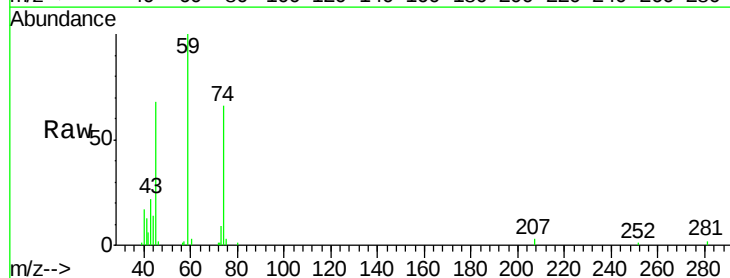
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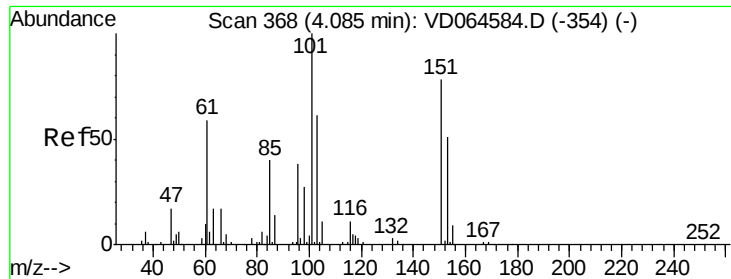


#8

Diethyl Ether
Concen: 20.433 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.6	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.784 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

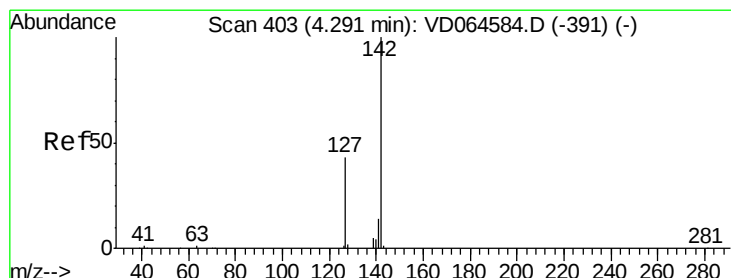
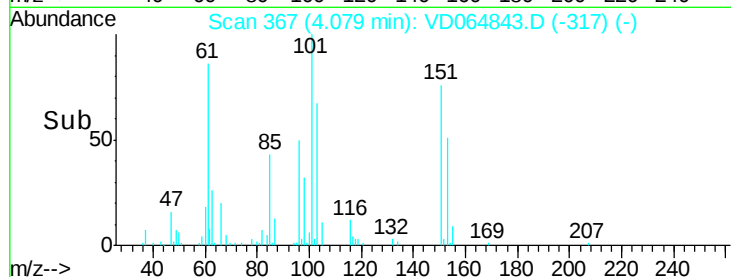
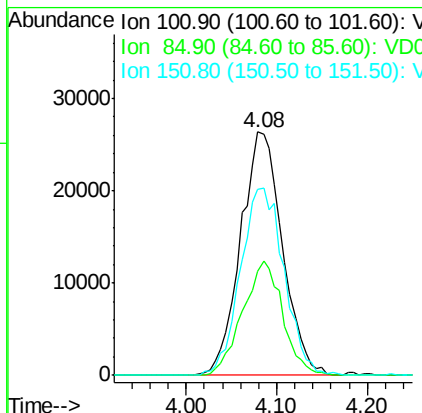
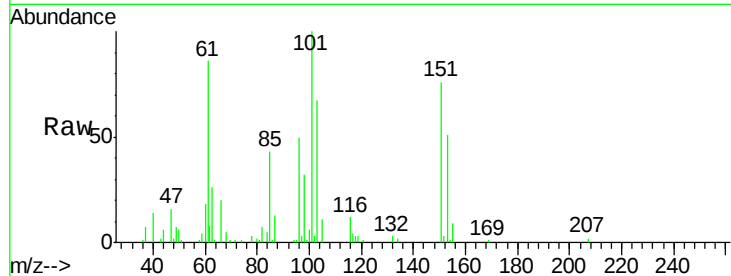
ClientSampleId :

VD0113SBS01

Tot Ion:	101	Resp:	84521
Ion Ratio	Lower	Upper	
101	100		
85	44.8	35.2	52.8
151	80.2	66.2	99.4

Manual Integrations
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#10

Methyl Iodide

Concen: 20.088 ug/l

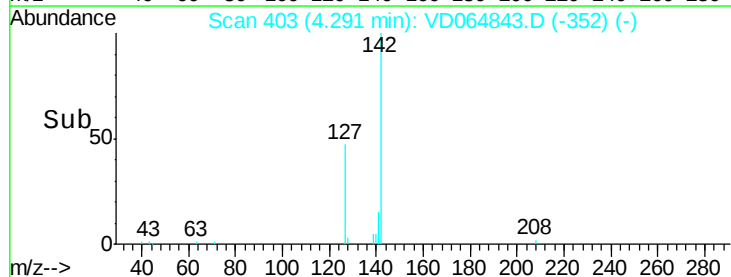
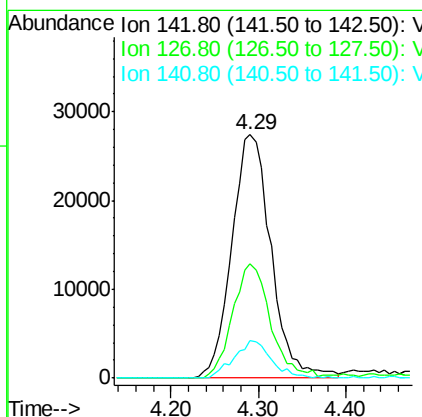
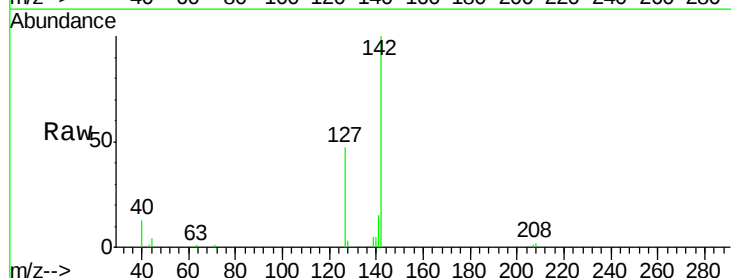
RT: 4.29 min Scan# 403

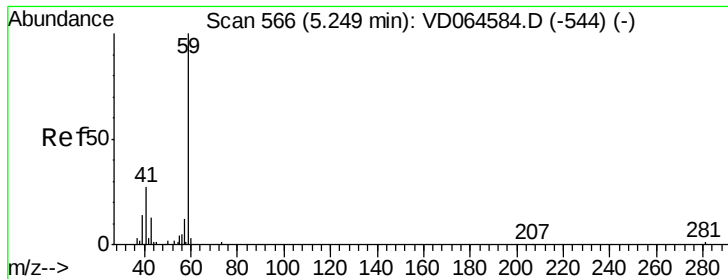
Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Tgt Ion:	142	Resp:	83722
Ion Ratio	Lower	Upper	
142	100		
127	45.1	36.2	54.4
141	14.4	11.8	17.8





#11

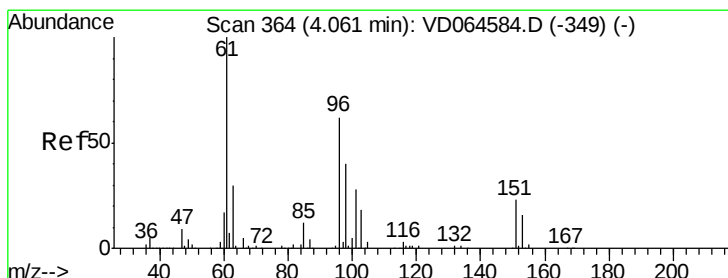
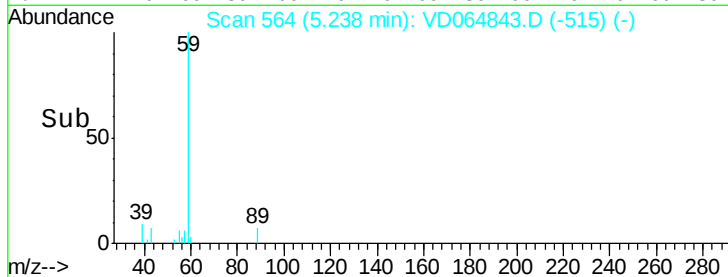
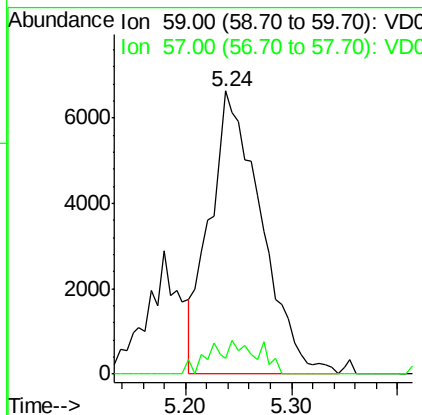
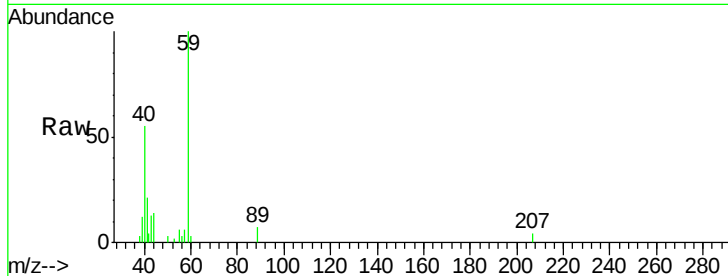
Tert butyl alcohol
 Concen: 105.701 ug/l
 RT: 5.24 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.3	13.9#

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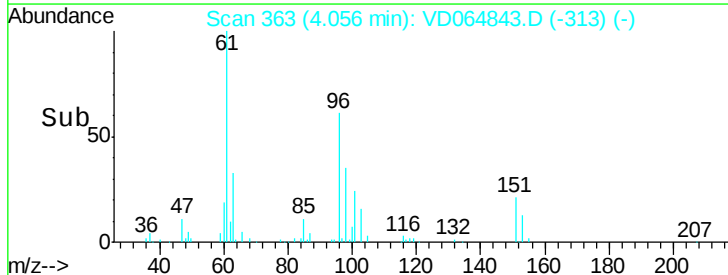
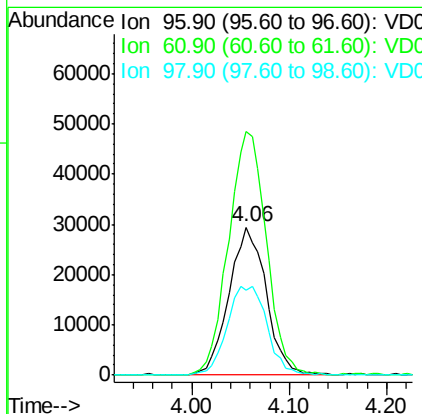
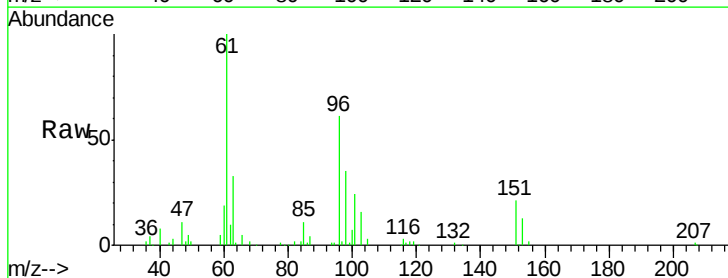
MMDadoda
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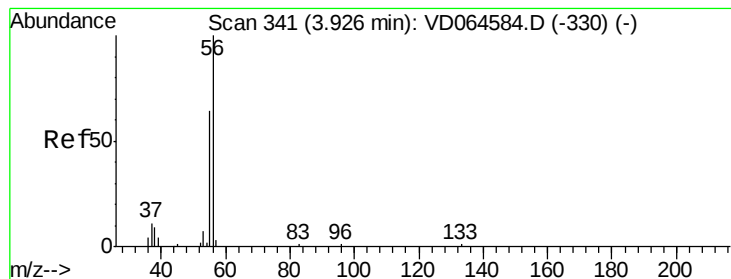


#12

1,1-Dichloroethene
 Concen: 21.256 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.4	129.4	194.0
98	57.3	51.4	77.0





#13

Acrolein

Concen: 73.498 ug/l

RT: 3.91 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 56 Resp: 21734

Ion Ratio Lower Upper

56 100

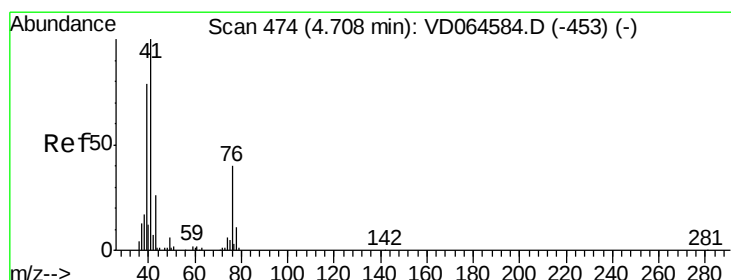
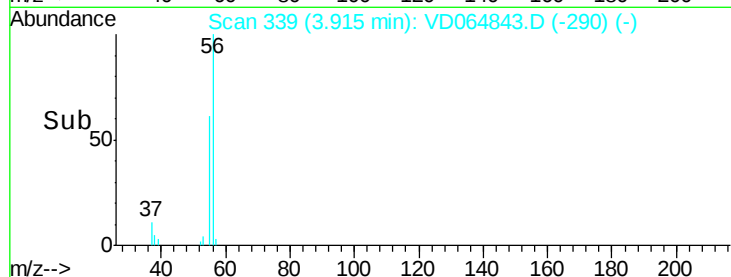
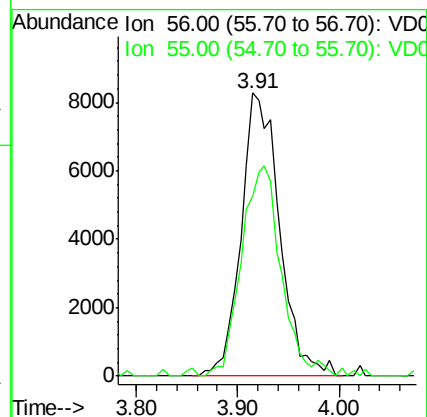
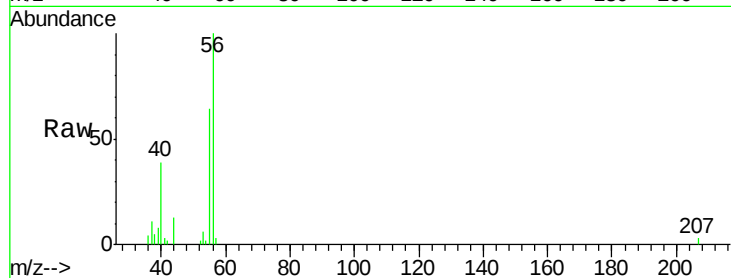
55 75.0 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 21.968 ug/l

RT: 4.70 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

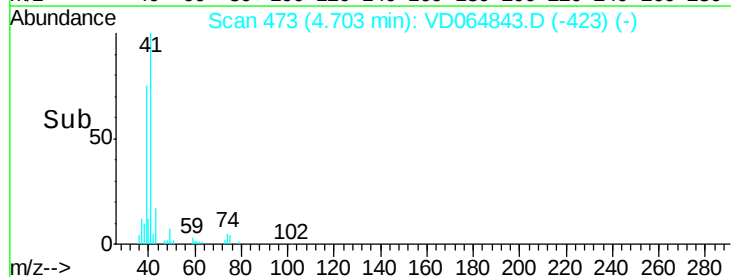
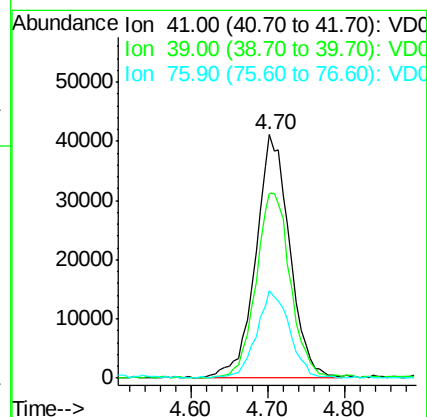
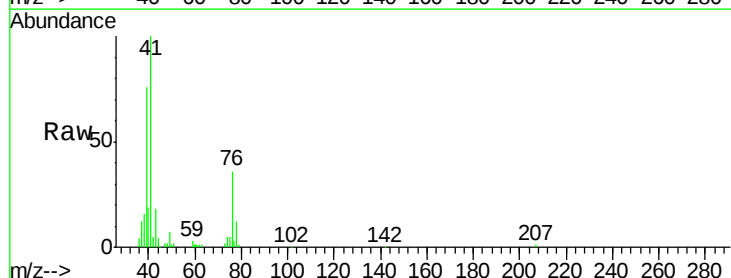
Tgt Ion: 41 Resp: 126520

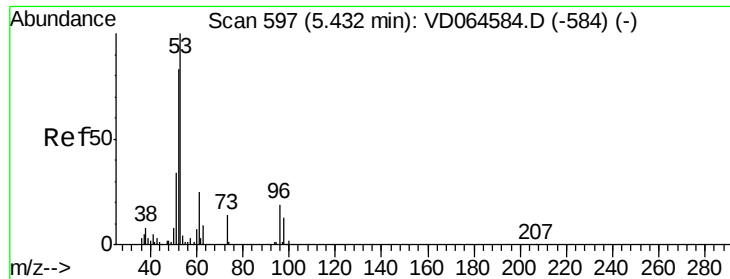
Ion Ratio Lower Upper

41 100

39 76.9 62.3 93.5

76 35.0 29.7 44.5





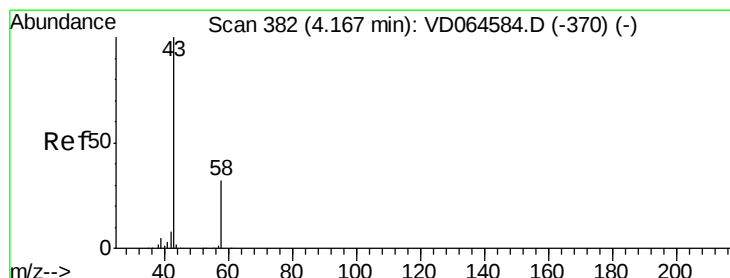
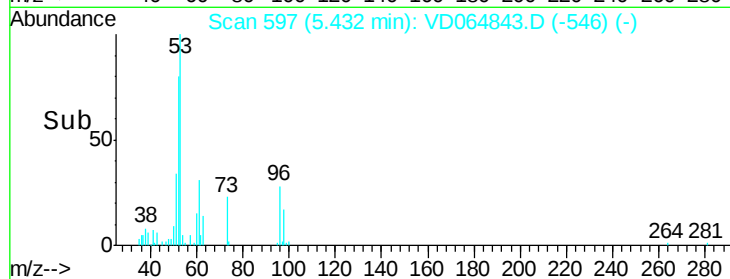
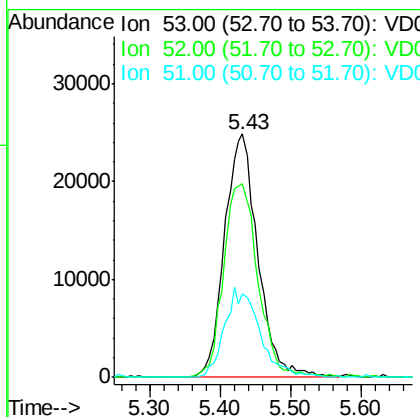
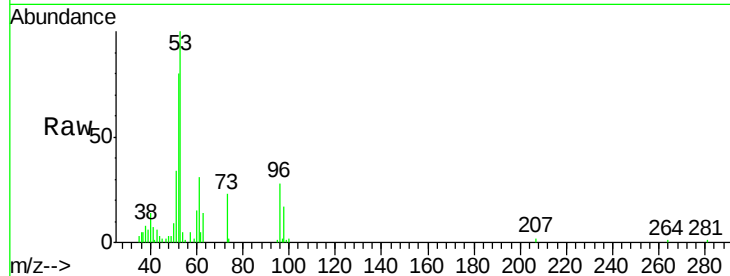
#15
 Acrylonitrile
 Concen: 104.822 ug/l
 RT: 5.43 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion:	53	Resp:	81230
Ion Ratio	Lower	Upper	
53	100		
52	82.3	66.2	99.2
51	38.7	30.1	45.1

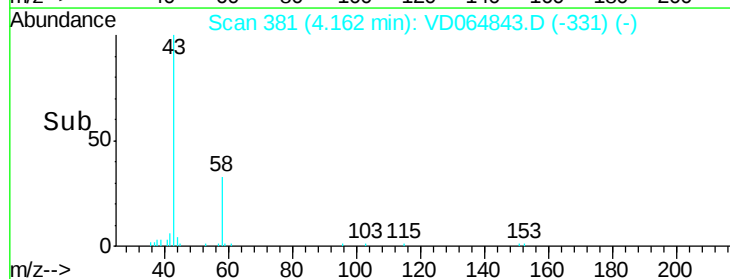
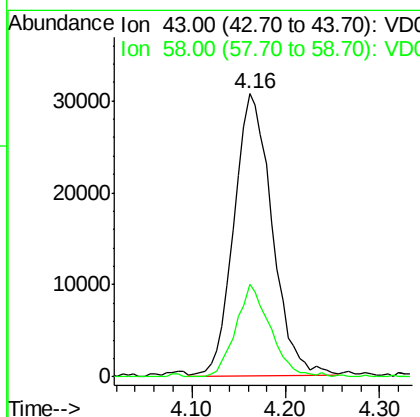
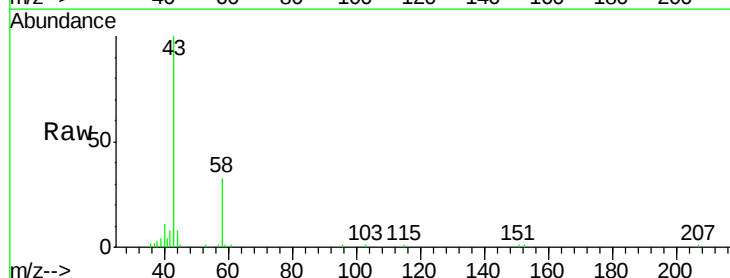
Manual Integrations
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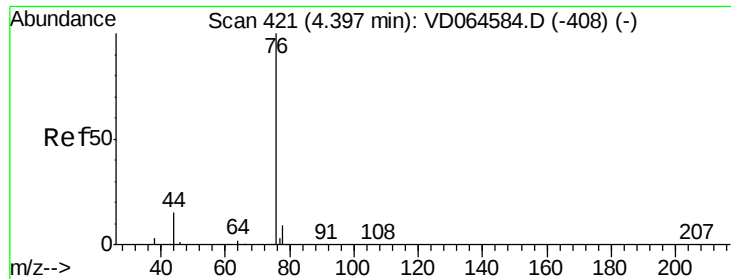
MMDadoda
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#16
 Acetone
 Concen: 105.921 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion:	43	Resp:	86363
Ion Ratio	Lower	Upper	
43	100		
58	33.0	25.8	38.6





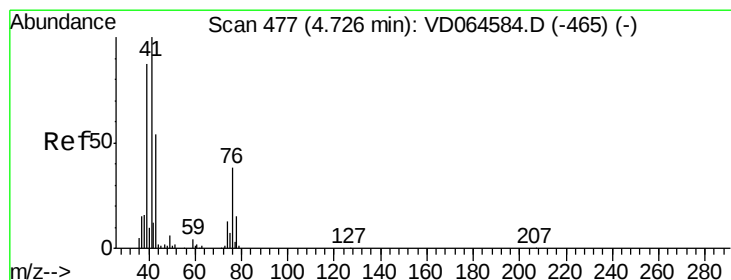
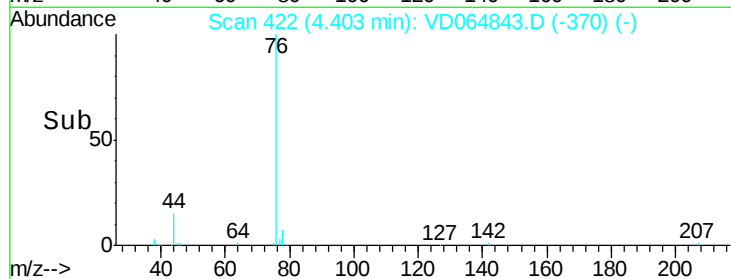
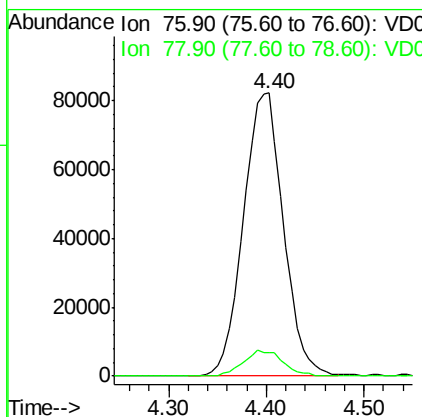
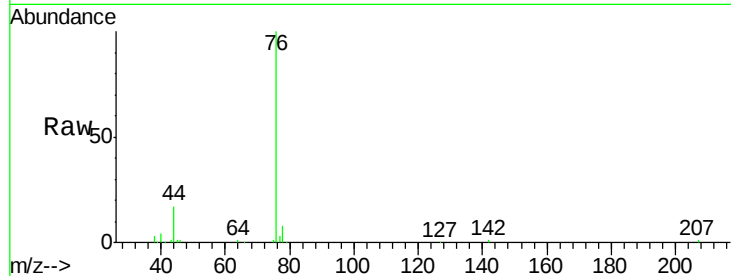
#17
Carbon Disulfide
Concen: 19.788 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.3	10.9

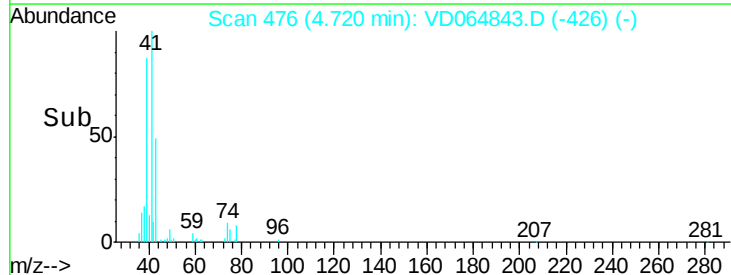
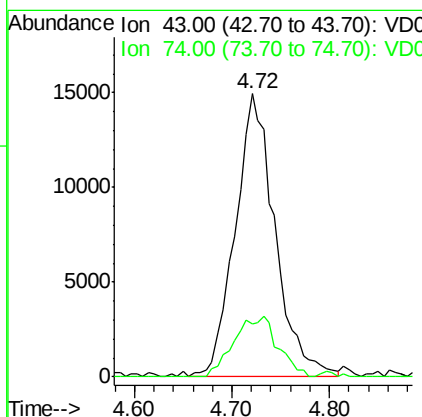
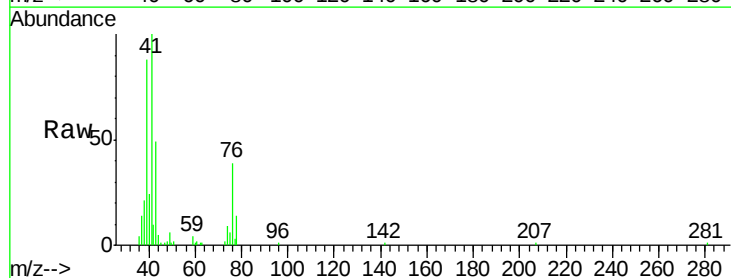
Manual Integrations
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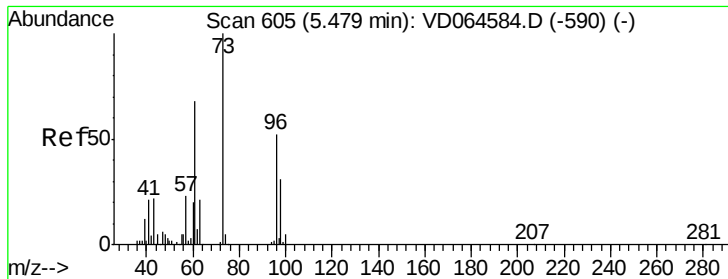
MMDadoda
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#18
Methyl Acetate
Concen: 20.447 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.6	19.2	28.8





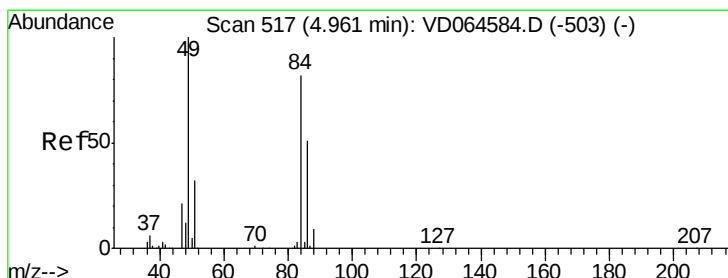
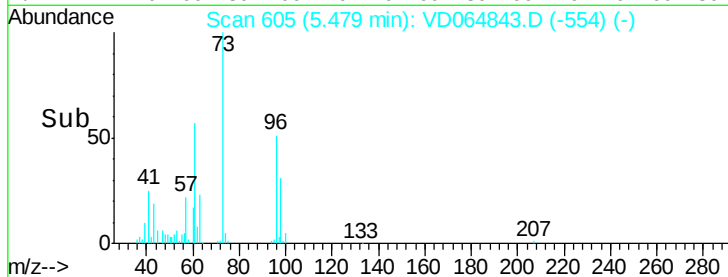
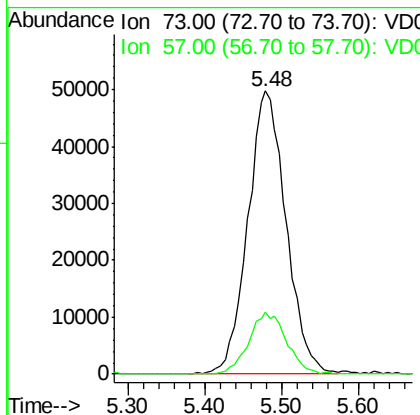
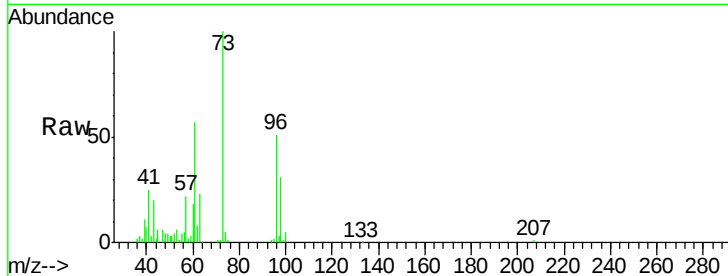
#19
Methyl tert-butyl Ether
Concen: 20.961 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion: 73 Resp: 171981
Ion Ratio Lower Upper
73 100
57 21.8 18.6 27.8

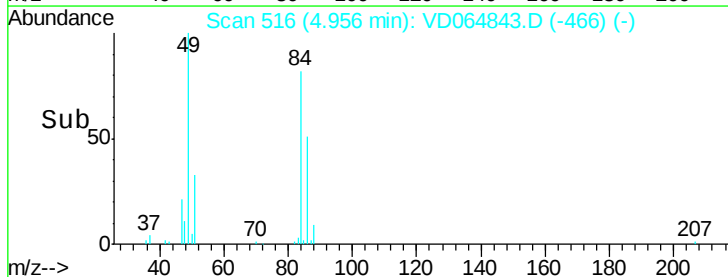
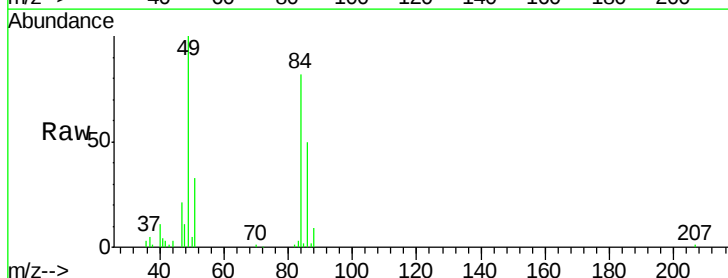
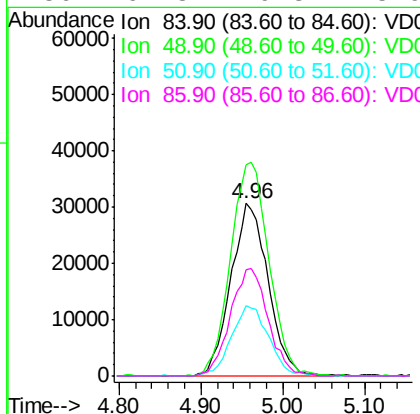
Manual Integrations
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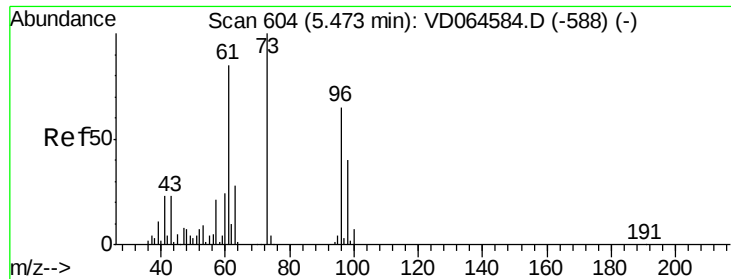
MMDadoda
1/14/2020 1:28:22 PM



#20
Methylene Chloride
Concen: 23.023 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion: 84 Resp: 97161
Ion Ratio Lower Upper
84 100
49 121.8 97.2 145.8
51 40.5 31.4 47.0
86 61.8 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 21.485 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

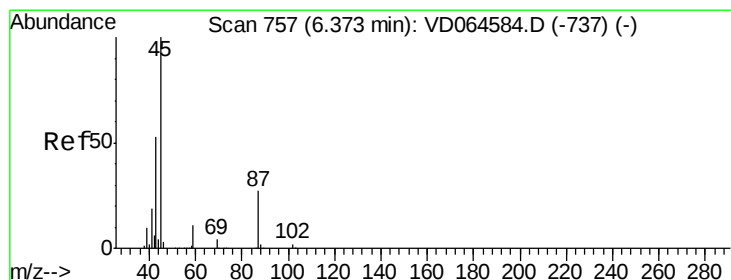
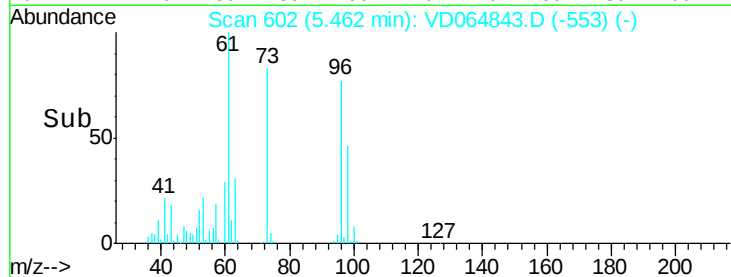
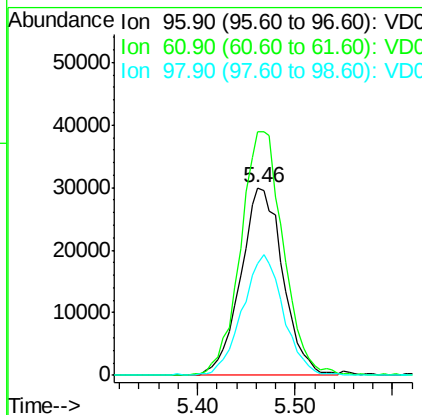
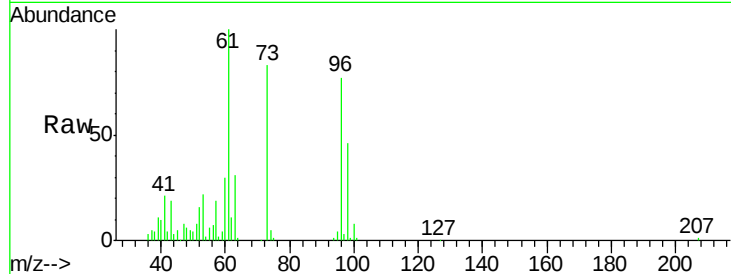
ClientSampleId :

VD0113SBS01

Tot Ion:	96	Resp:	90382
Ion	Ratio	Lower	Upper
96	100		
61	129.6	104.7	157.1
98	59.8	49.4	74.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 21.761 ug/l

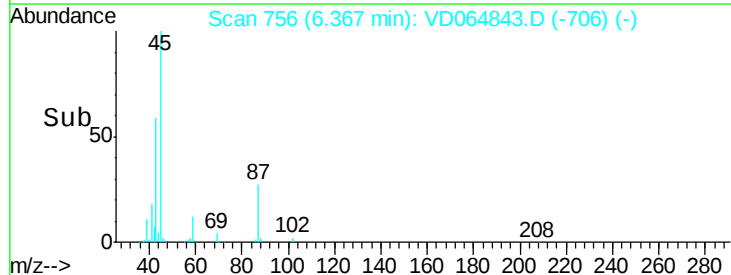
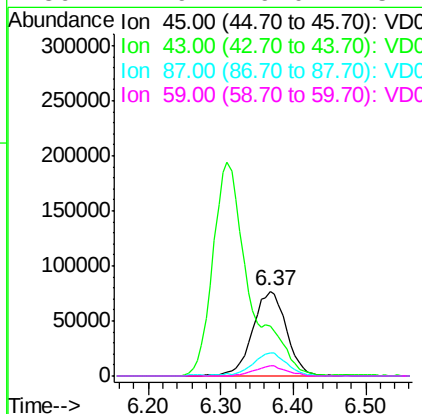
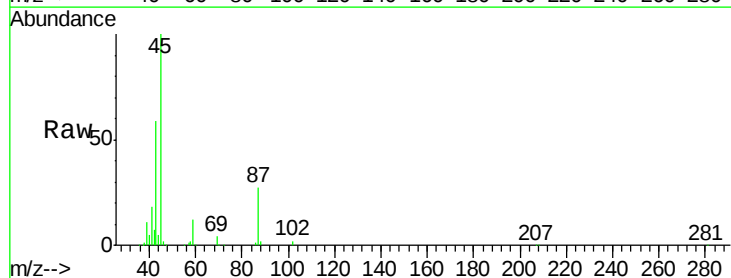
RT: 6.37 min Scan# 756

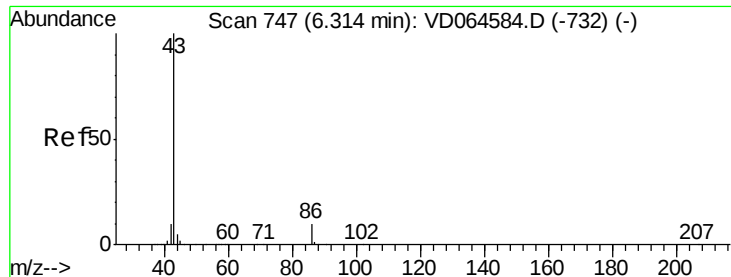
Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Tgt Ion:	45	Resp:	249977
Ion	Ratio	Lower	Upper
45	100		
43	57.5	43.2	64.8
87	27.3	21.9	32.9
59	11.9	9.0	13.4





#23

Vinyl Acetate

Concen: 104.076 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 43 Resp: 678203

Ion Ratio Lower Upper

43 100

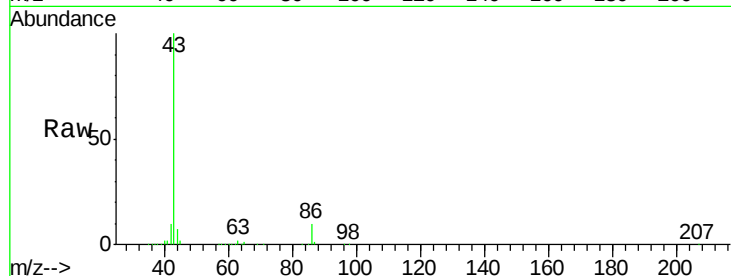
86 10.0 8.3 12.5

Manual Integrations

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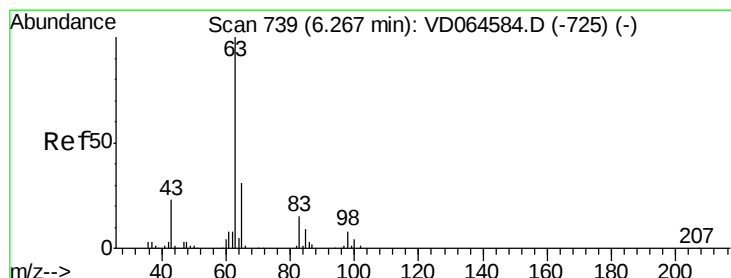
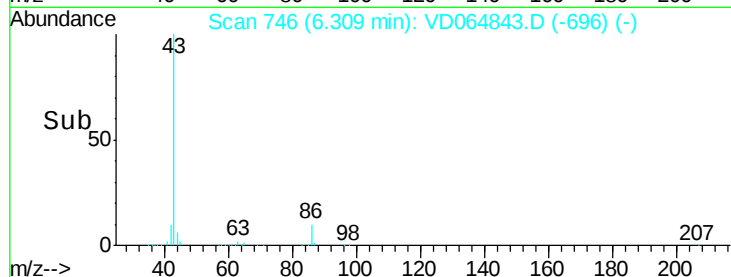
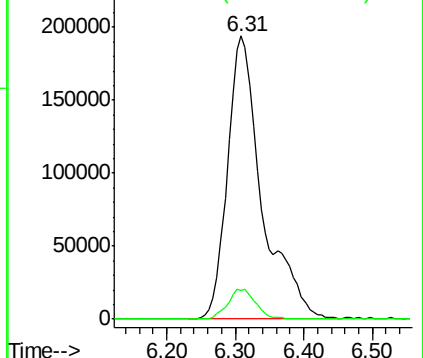
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.250 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

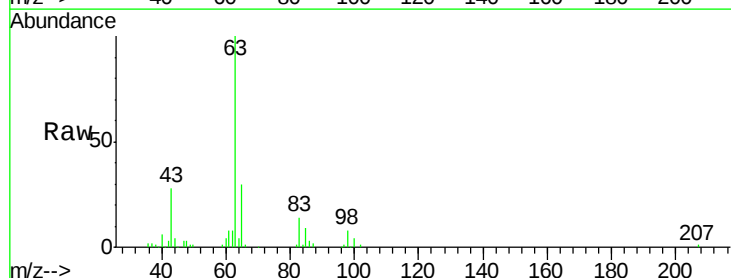
Tgt Ion: 63 Resp: 153443

Ion Ratio Lower Upper

63 100

98 8.4 4.1 12.3

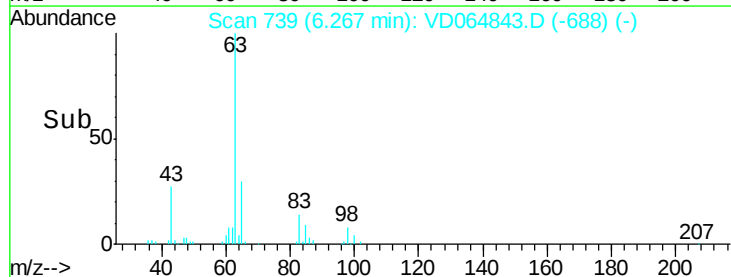
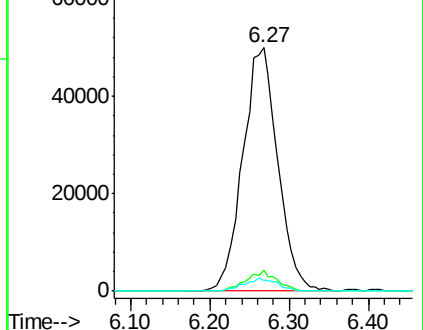
100 4.3 2.2 6.6

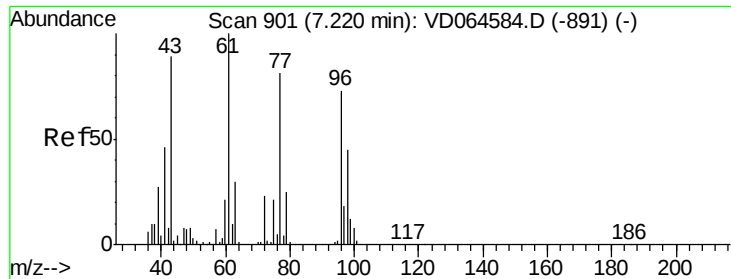


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





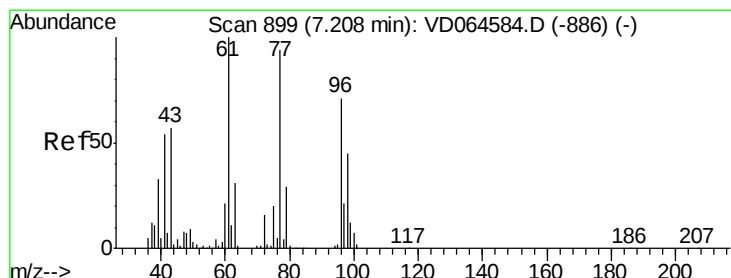
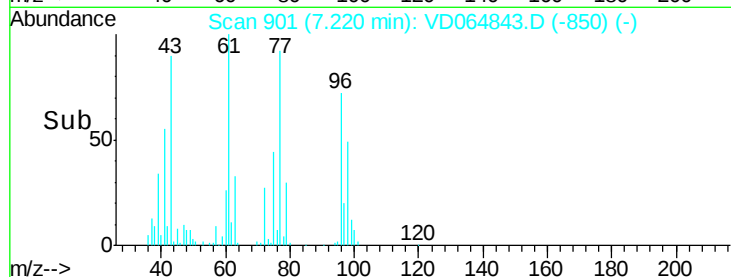
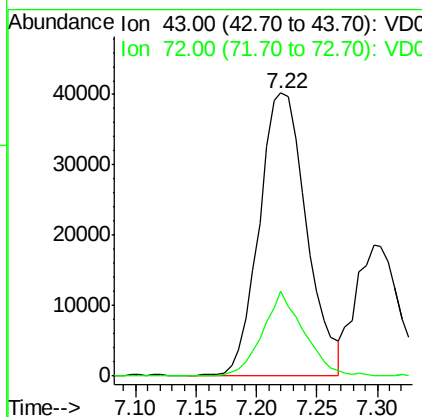
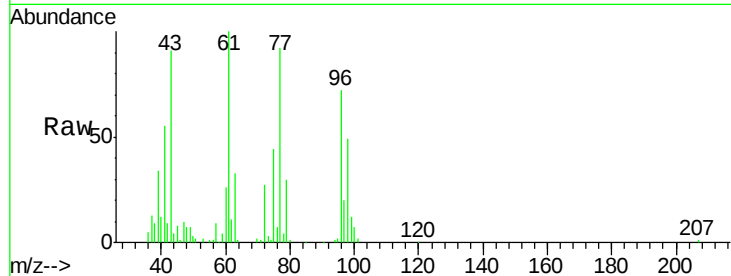
#25
2-Butanone
Concen: 107.707 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion: 43 Resp: 109612
Ion Ratio Lower Upper
43 100
72 29.8 20.7 31.1

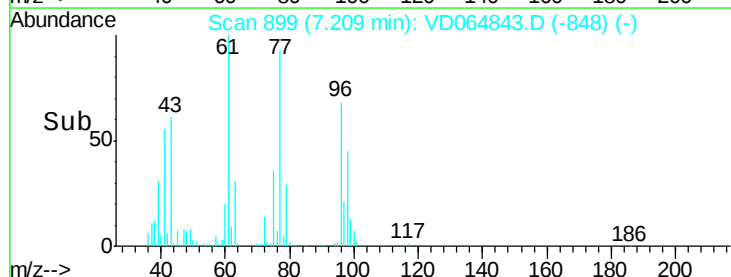
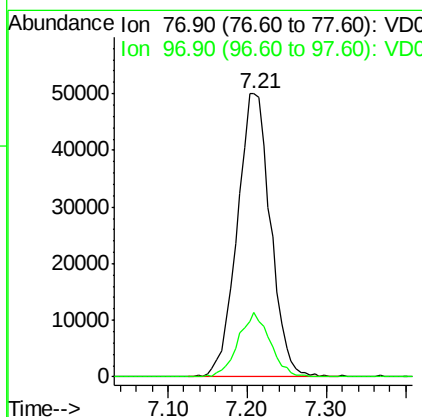
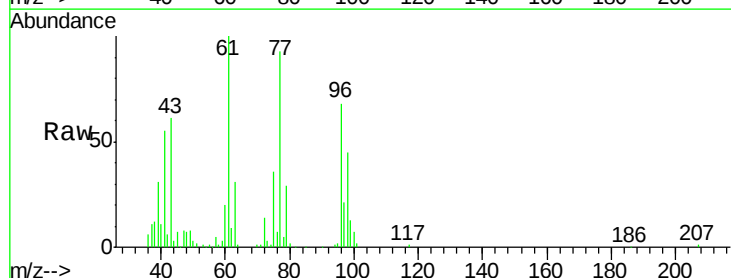
Manual Integrations
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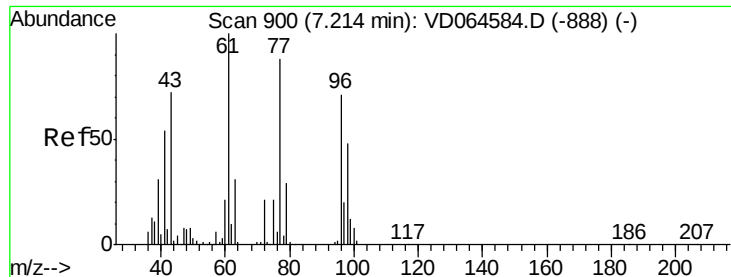
MMDadoda
1/14/2020 1:28:22 PM



#26
2,2-Dichloropropane
Concen: 22.742 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion: 77 Resp: 145820
Ion Ratio Lower Upper
77 100
97 21.8 11.2 33.6





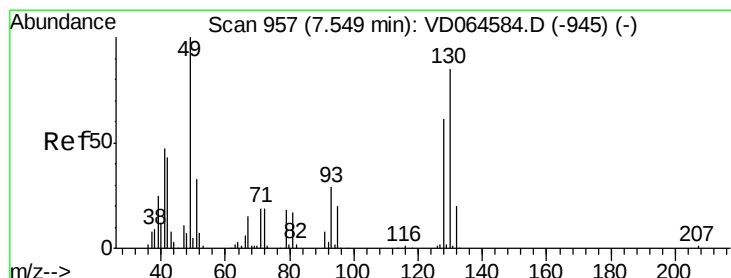
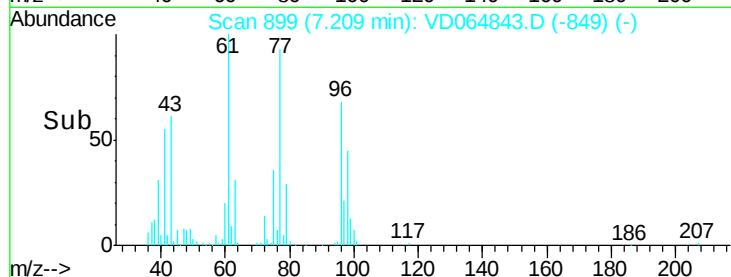
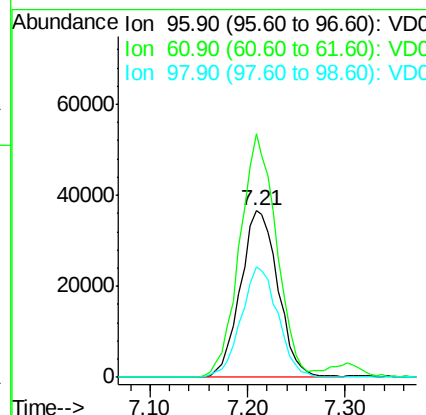
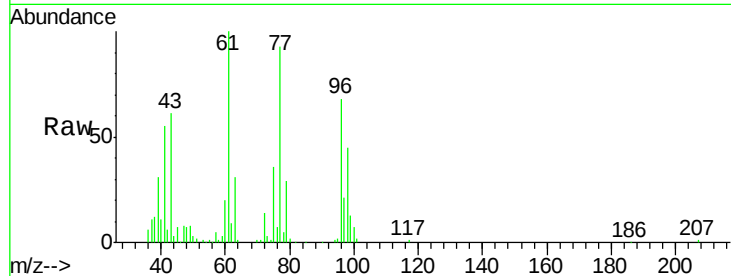
#27
 cis-1,2-Dichloroethene
 Concen: 21.724 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.0	0.0	282.6	
98	64.5	0.0	130.8	

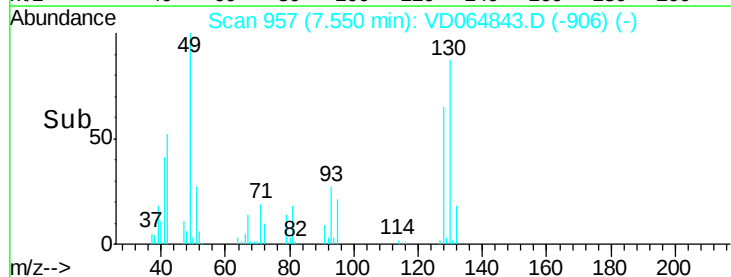
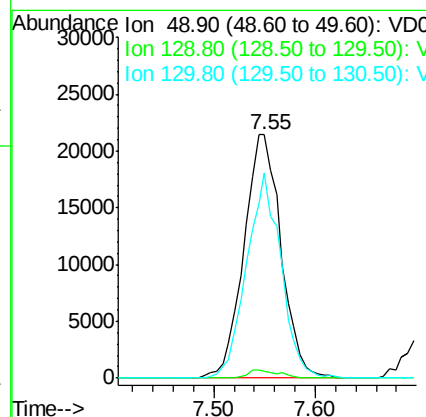
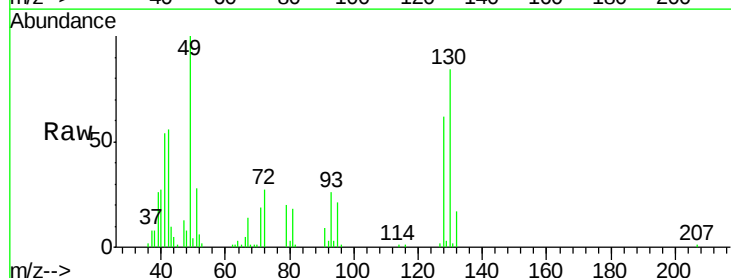
Manual Integrations
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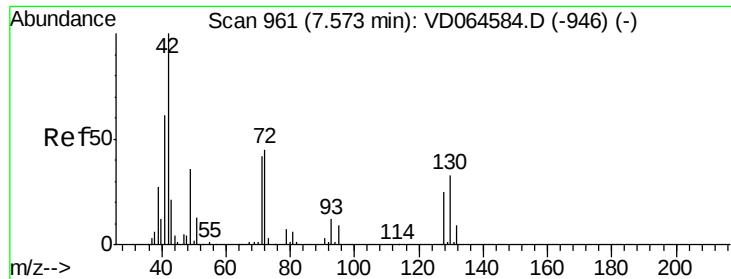
MMDadoda
 1/14/2020 1:28:22 PM



#28
 Bromochloromethane
 Concen: 20.391 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.8	0.0	4.8	
130	78.0	65.0	97.6	





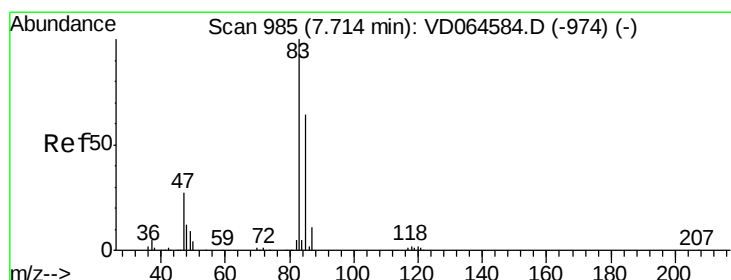
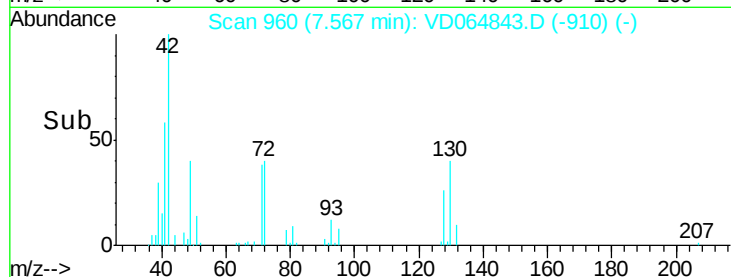
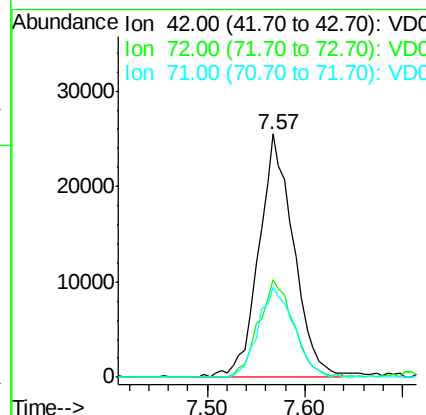
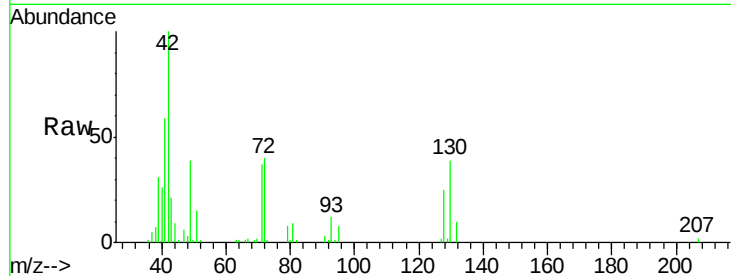
#29
Tetrahydrofuran
Concen: 100.800 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	35.0	52.4
71	37.9	32.9	49.3

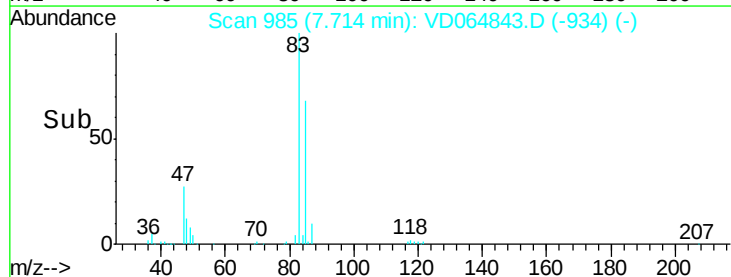
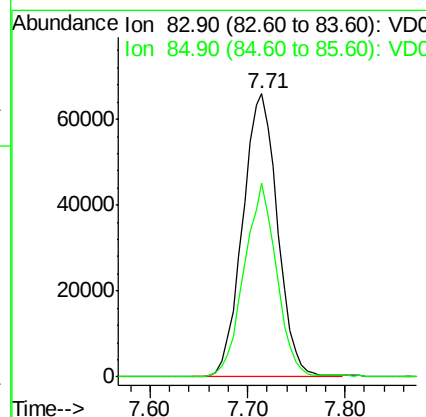
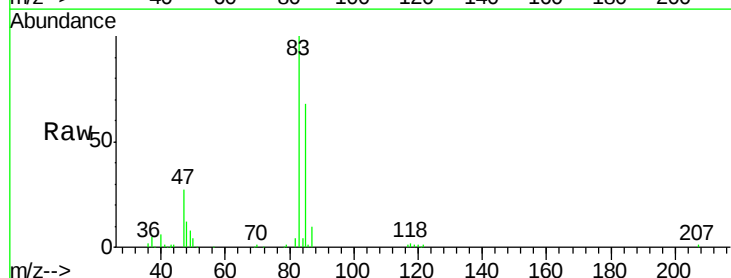
Manual Integrations
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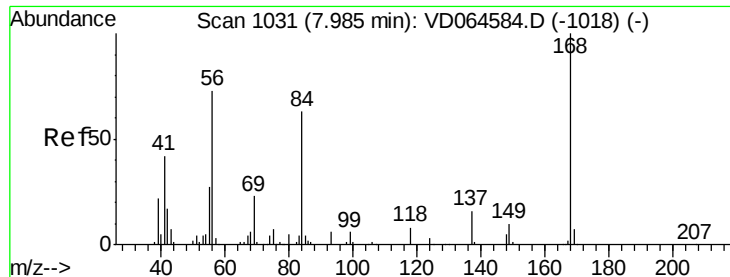
MMDadoda
1/14/2020 1:28:22 PM



#30
Chloroform
Concen: 22.751 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.3	51.1	76.7





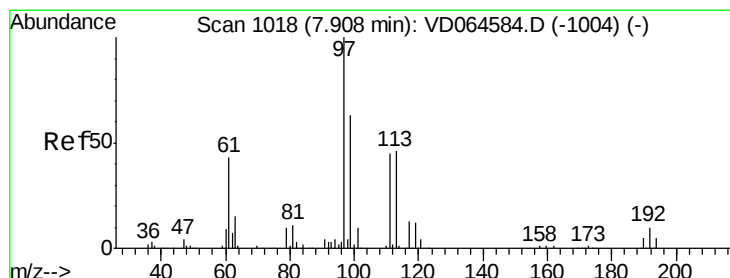
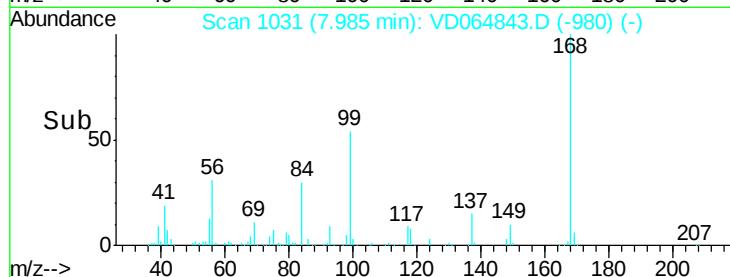
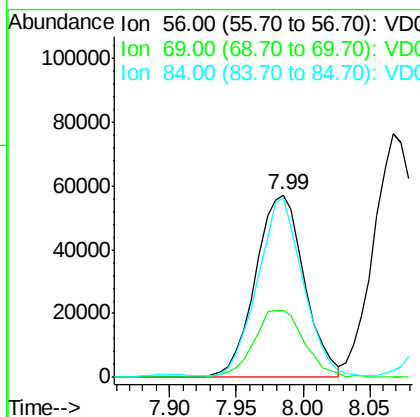
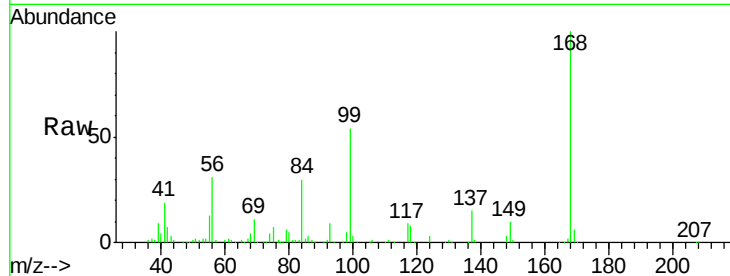
#31
Cyclohexane
Concen: 20.994 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.7	24.7	37.1
84	96.9	69.4	104.2

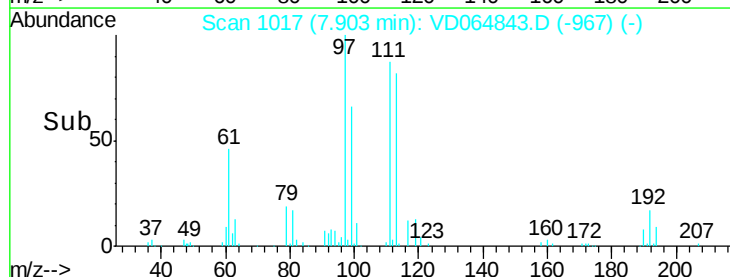
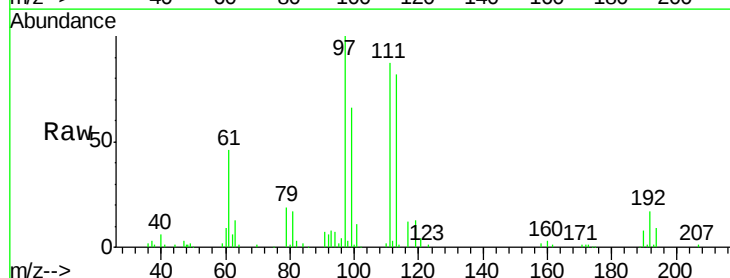
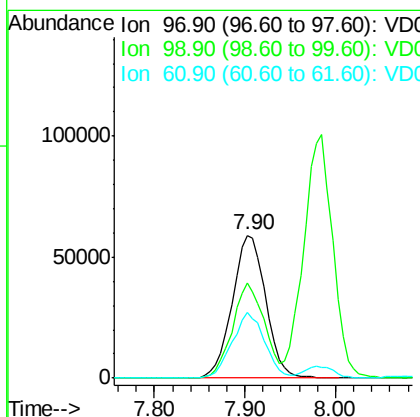
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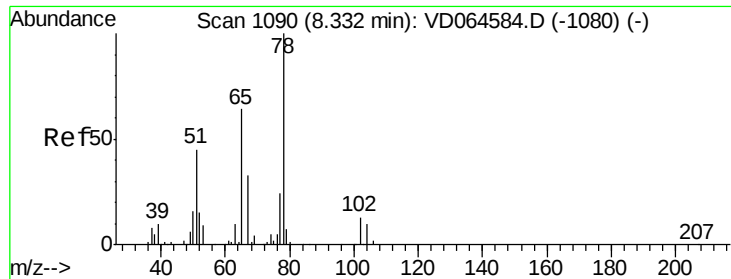
MMDadoda
1/14/2020 1:28:22 PM



#32
1,1,1-Trichloroethane
Concen: 22.299 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.0	76.6
61	45.1	35.4	53.0





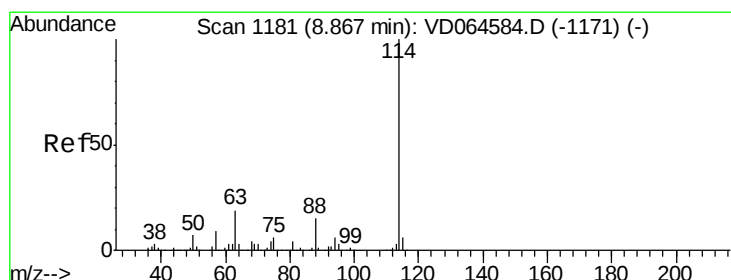
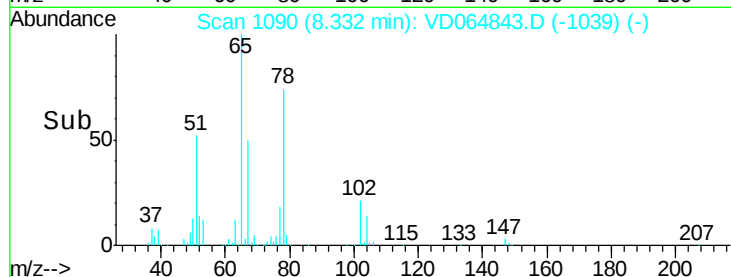
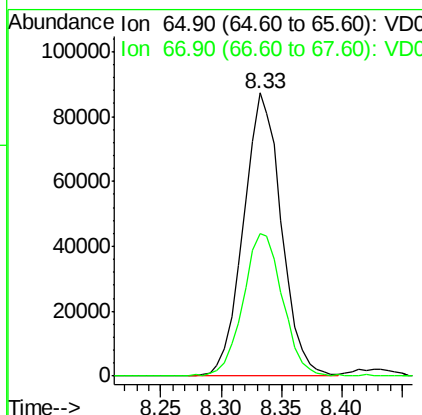
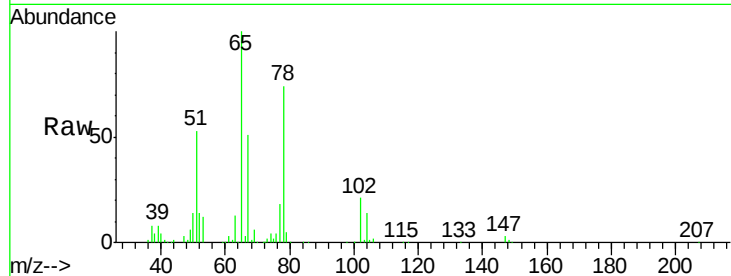
#33
 1,2-Dichloroethane-d4
 Concen: 51.632 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	191159		
67	52.6	0.0	106.2	

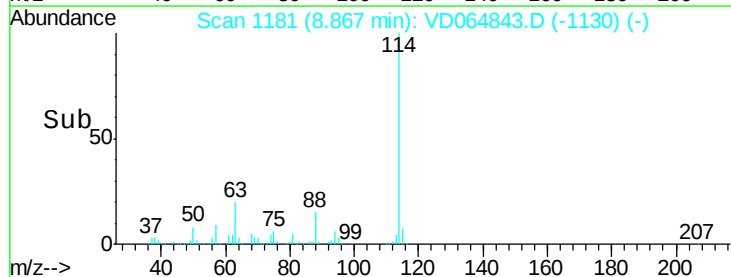
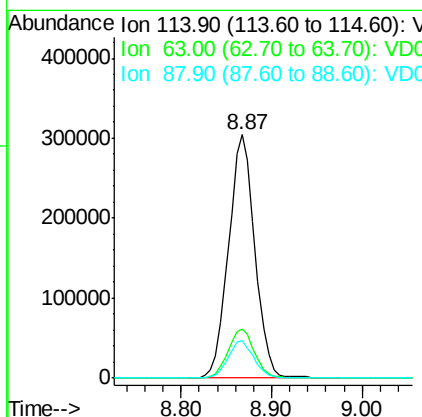
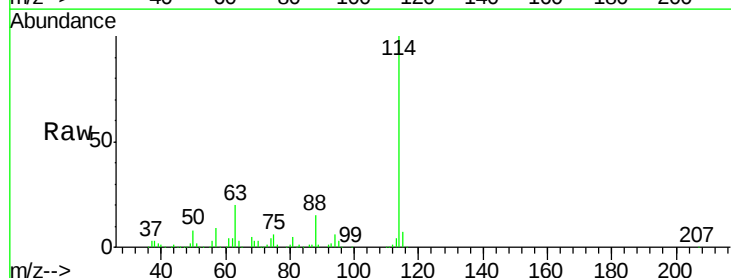
Manual Integrations
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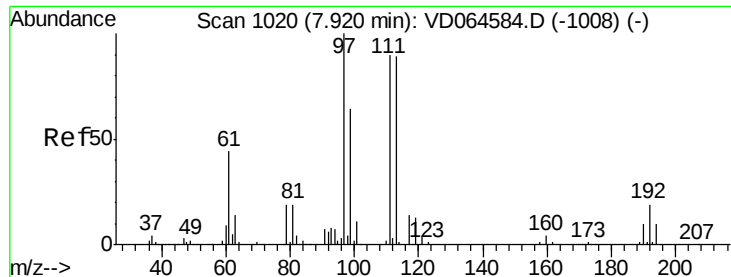
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	614819		
63	20.1	0.0	38.0	
88	15.3	0.0	29.2	





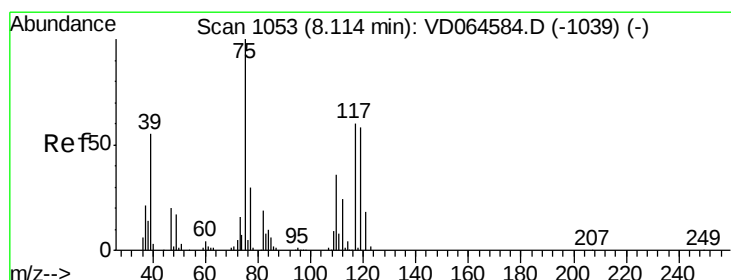
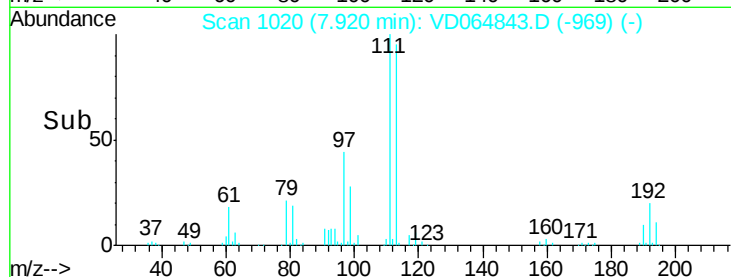
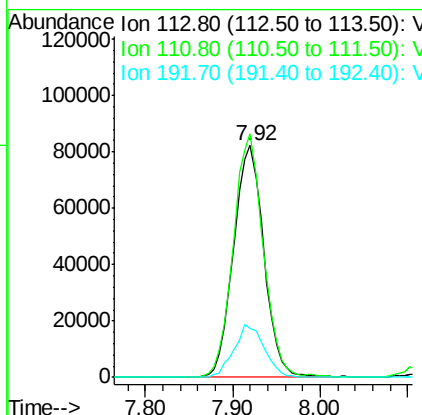
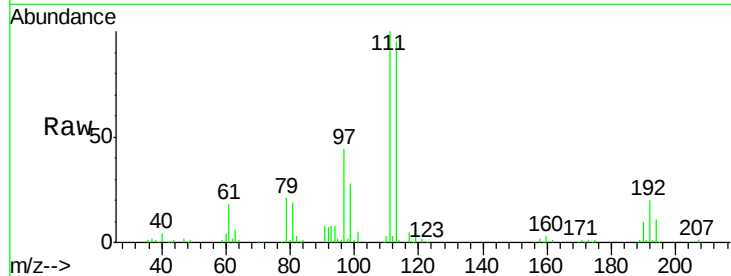
#35
 Dibromofluoromethane
 Concen: 51.246 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	193301		
111	104.1	80.6	121.0	
192	22.7	17.9	26.9	

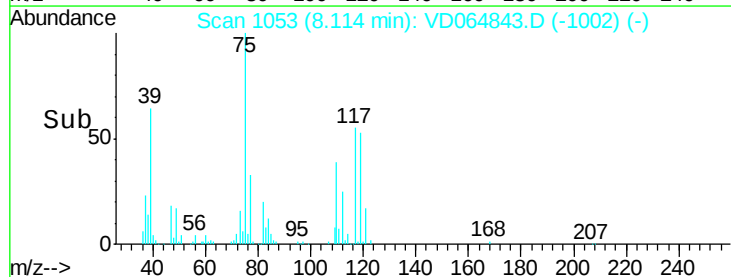
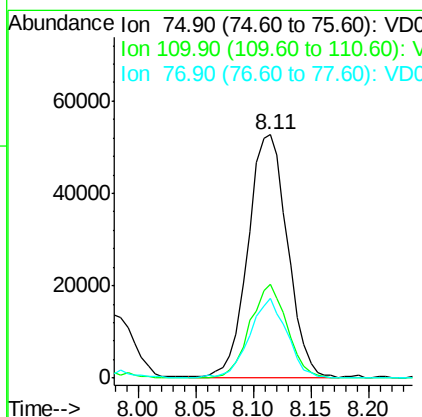
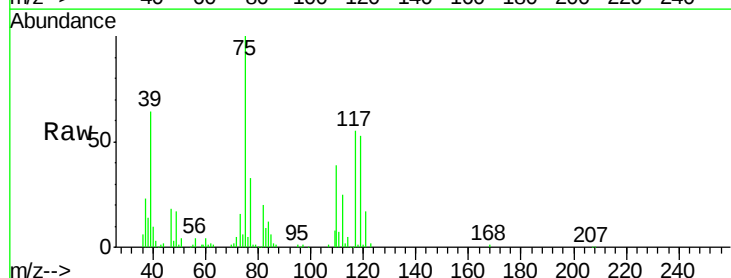
Manual Integrations
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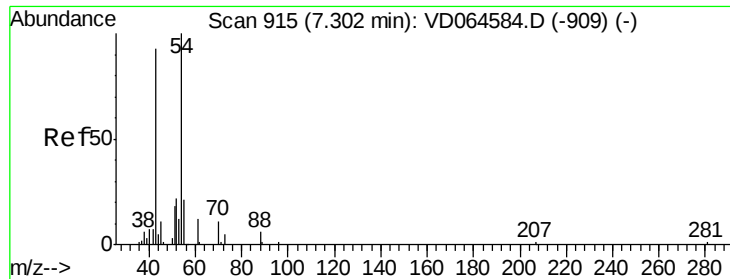
MMDadoda
 1/14/2020 1:28:22 PM



#36
 1,1-Dichloropropene
 Concen: 21.151 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	125163		
110	36.6	18.1	54.1	
77	31.3	24.2	36.4	





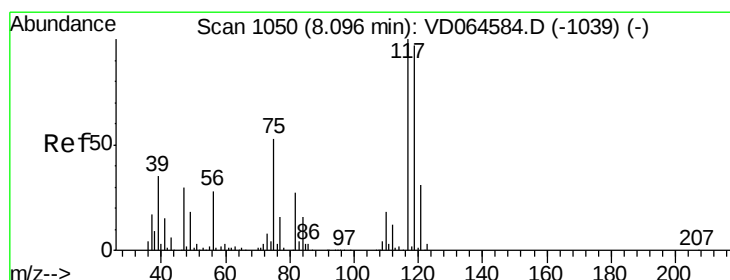
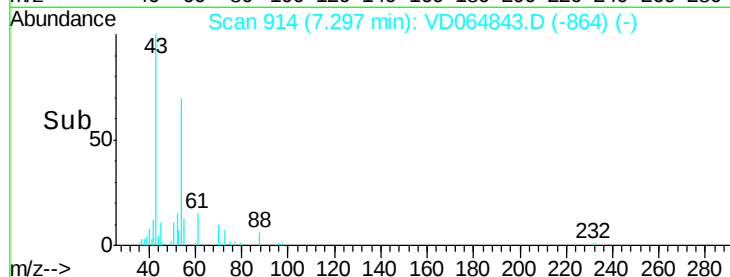
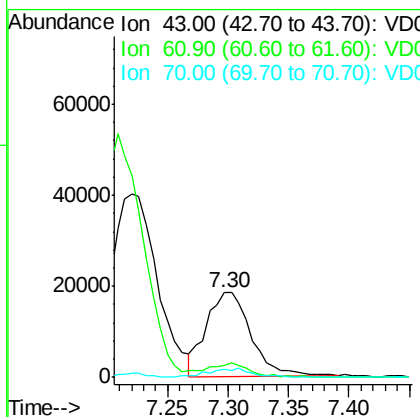
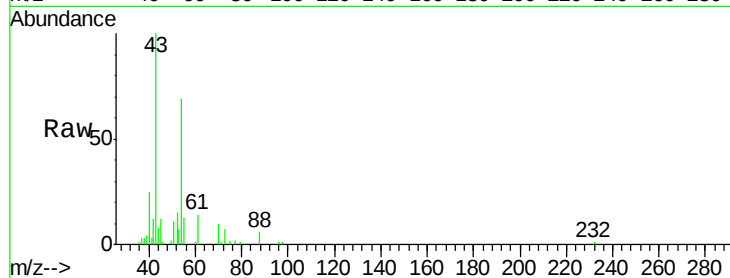
#37
Ethyl Acetate
Concen: 20.102 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.3	15.5
70	10.6	7.6	11.4

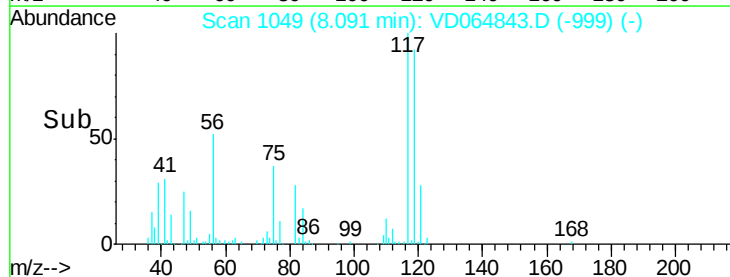
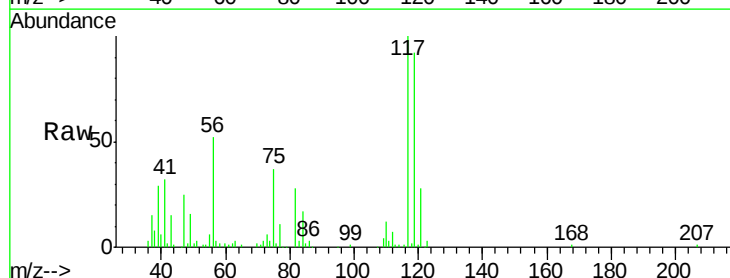
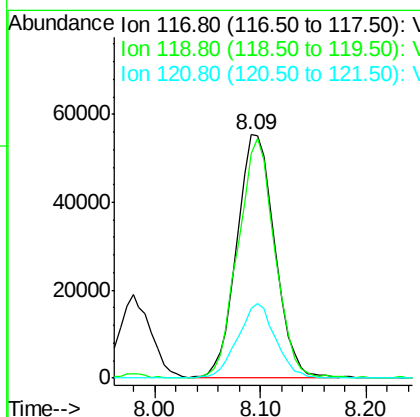
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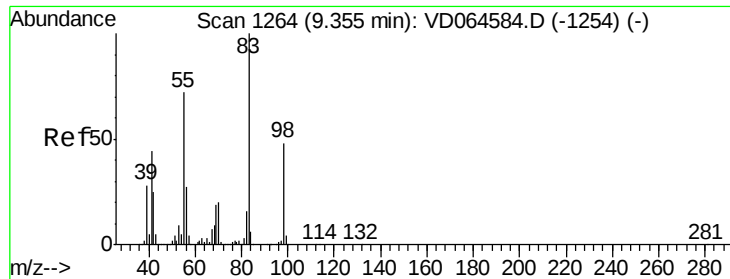
MMDadoda
1/14/2020 1:28:22 PM



#38
Carbon Tetrachloride
Concen: 21.803 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.5	77.3	115.9
121	28.4	25.0	37.6





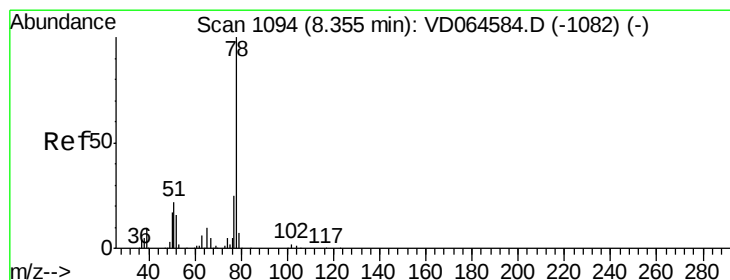
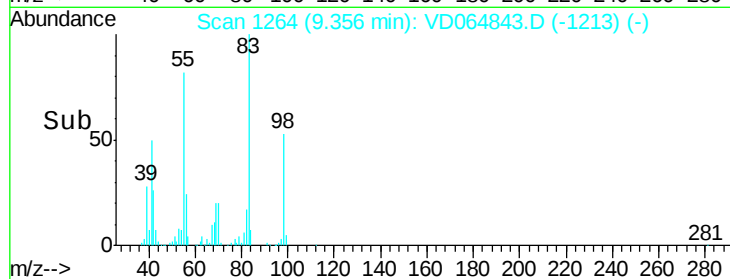
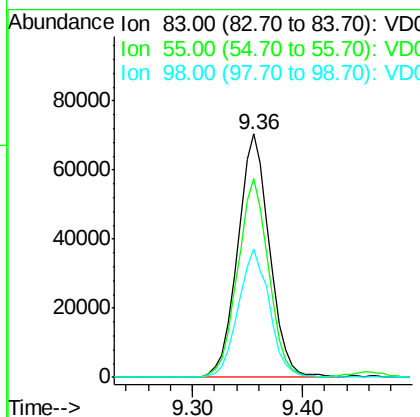
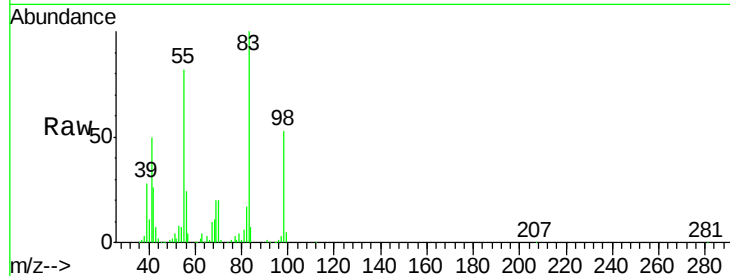
#39
Methylvlcvclohexane
Concen: 19.915 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.6	57.8	86.6
98	52.9	38.7	58.1

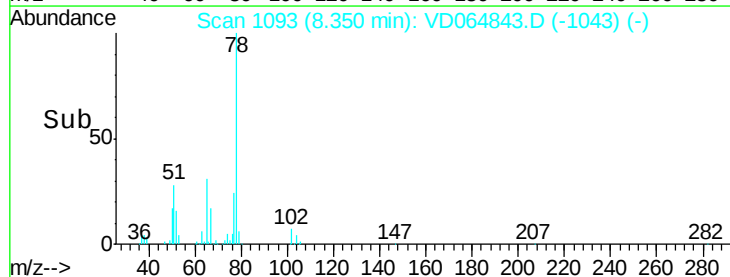
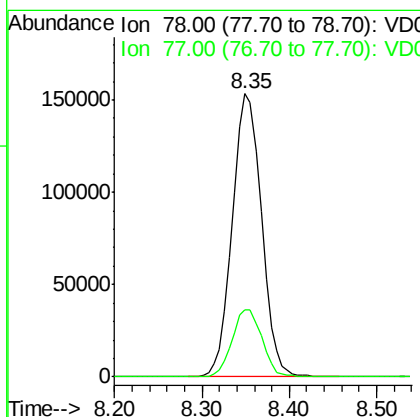
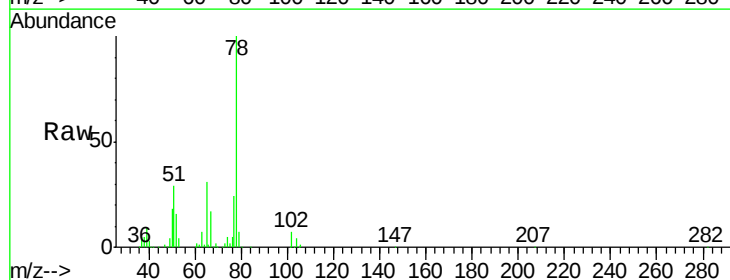
Manual Integrations
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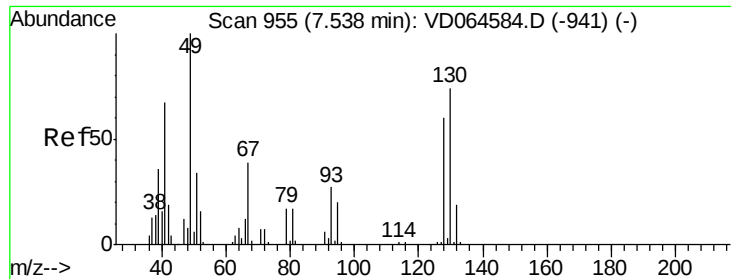
MMDadoda
1/14/2020 1:28:22 PM



#40
Benzene
Concen: 21.520 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.9	29.9





#41

Methacrylonitrile

Concen: 19.994 ug/l

RT: 7.54 min Scan# 955

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 41 Resp: 26968

Ion Ratio Lower Upper

41 100

39 67.2 46.7 70.1

67 72.5 52.5 78.7

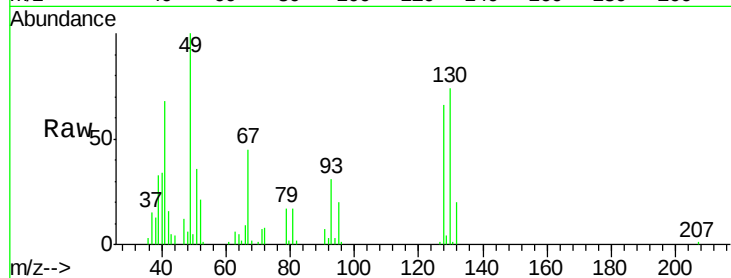
52 32.2 24.1 36.1

Manual Integrations

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1/14/2020 1:28:22 PM

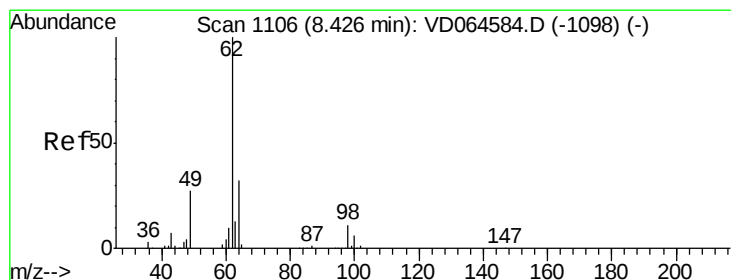
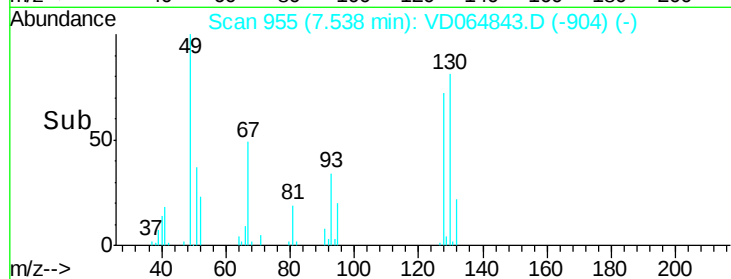
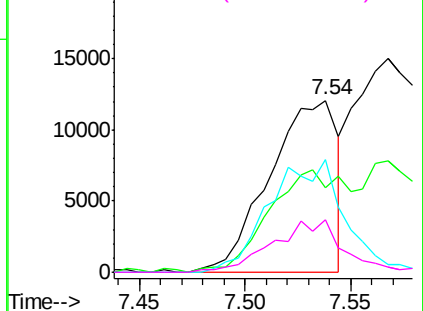


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 21.988 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD064843.D

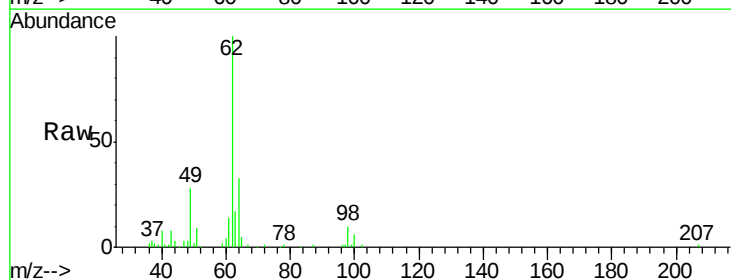
Acq: 13 Jan 2020 12:14

Tgt Ion: 62 Resp: 102646

Ion Ratio Lower Upper

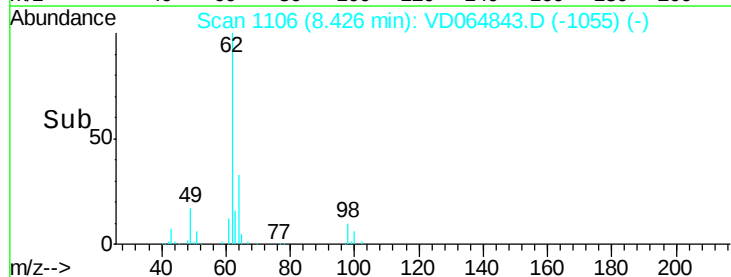
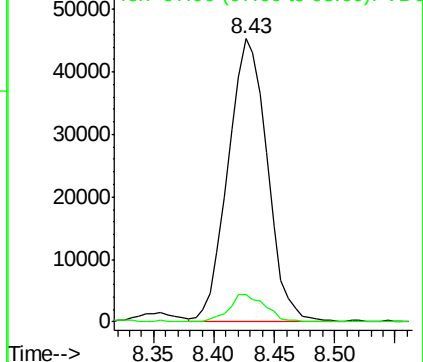
62 100

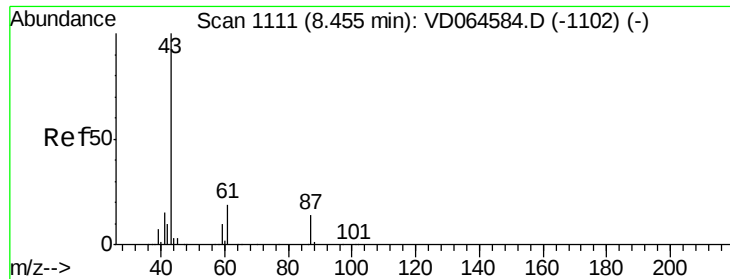
98 8.9 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





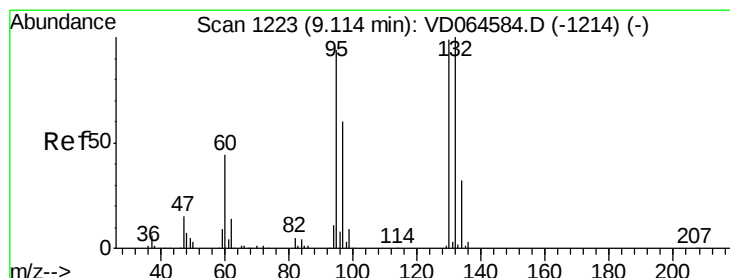
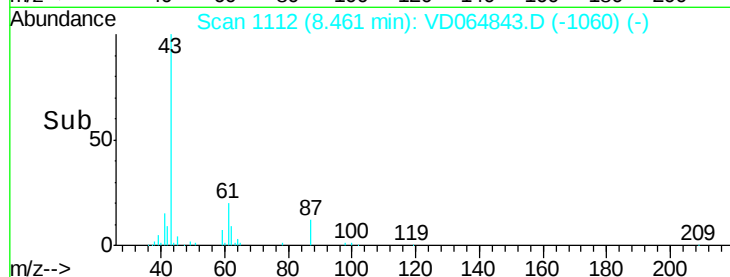
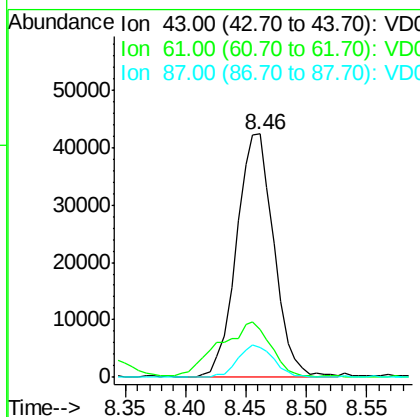
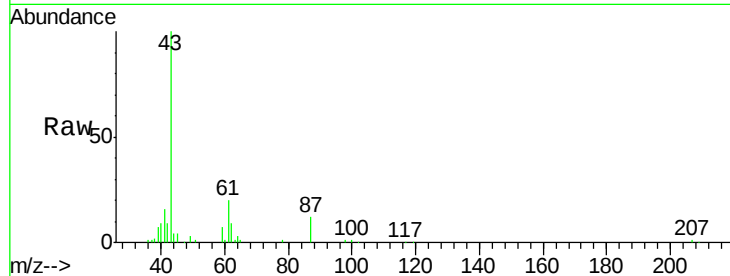
#43
Isopropyl Acetate
Concen: 19.816 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.7	23.7	35.5
87	12.6	10.5	15.7

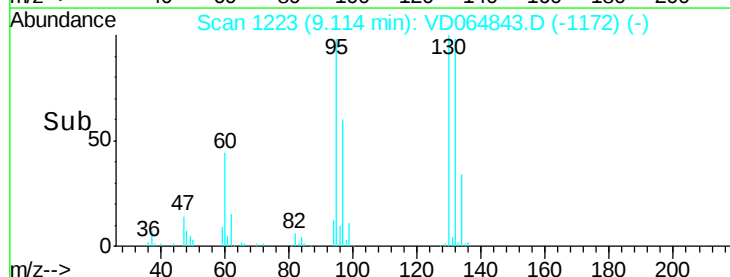
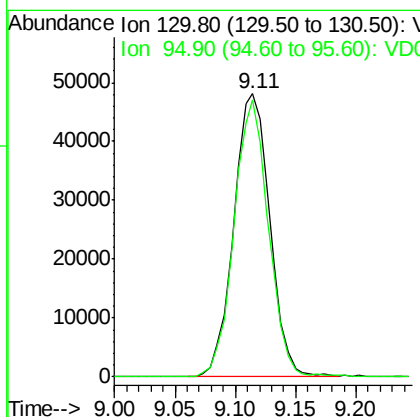
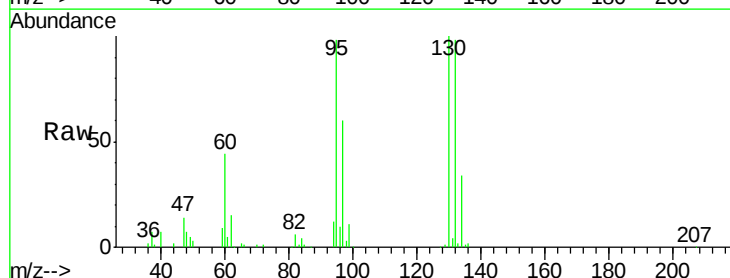
Manual Integrations
APPROVED

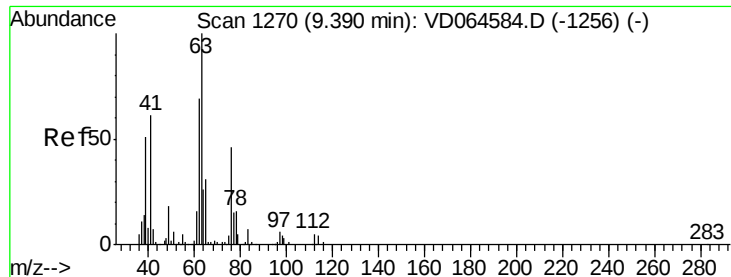
MMDadoda
1/14/2020 1:28:22 PM



#44
Trichloroethene
Concen: 21.026 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	190.2





#45

1,2-Dichloropropane

Concen: 22.192 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 63 Resp: 85598

Ion Ratio Lower Upper

63 100

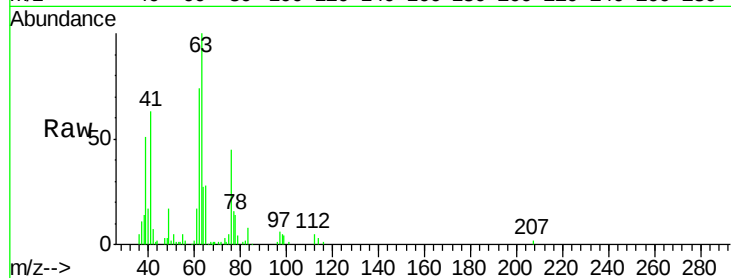
65 27.9 25.2 37.8

Manual Integrations

APPROVED

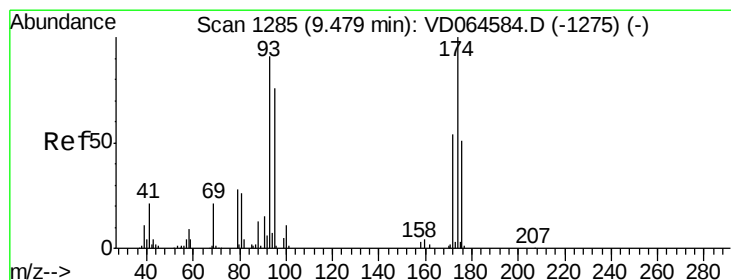
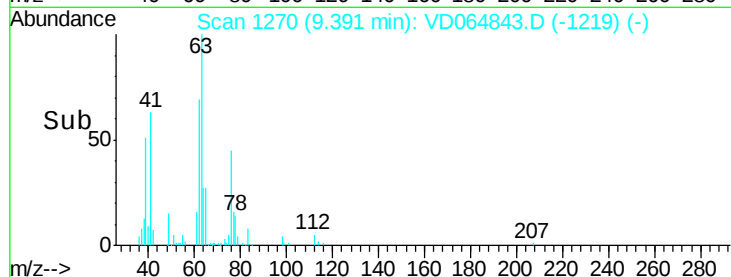
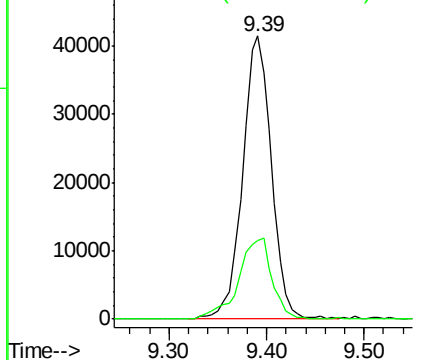
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 20.977 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

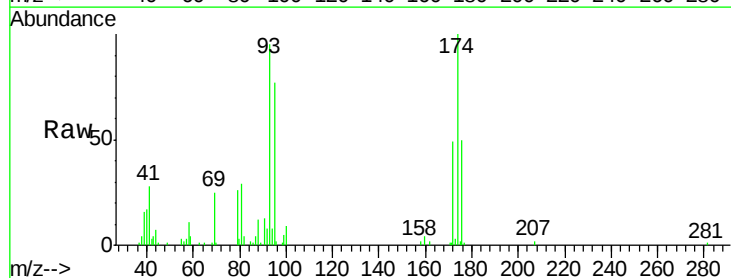
Tgt Ion: 93 Resp: 45111

Ion Ratio Lower Upper

93 100

95 84.1 64.6 97.0

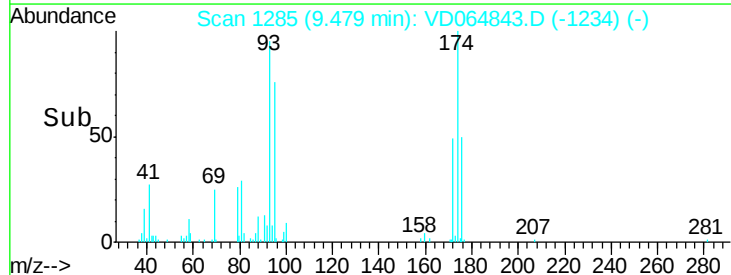
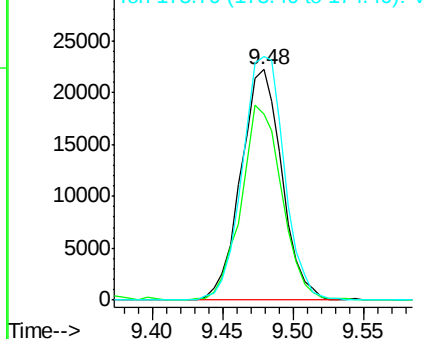
174 108.5 88.1 132.1

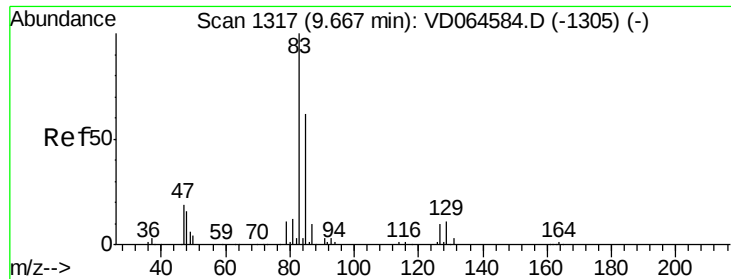


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





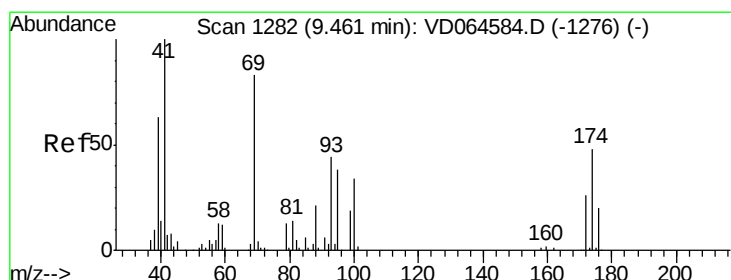
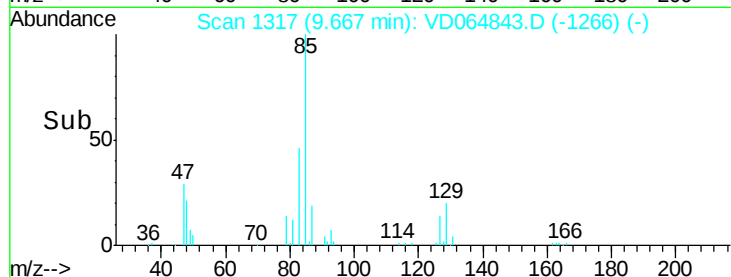
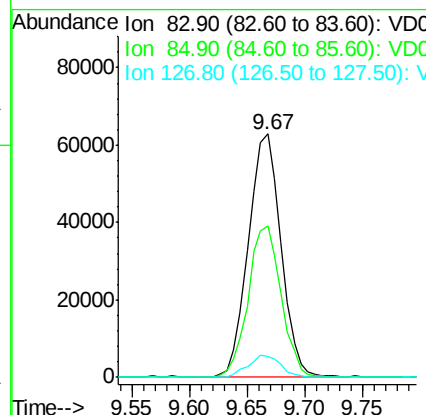
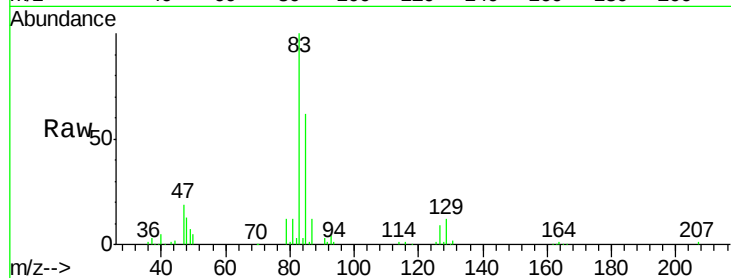
#47
Bromodichloromethane
Concen: 21.719 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.3	49.5	74.3
127	8.8	7.8	11.6

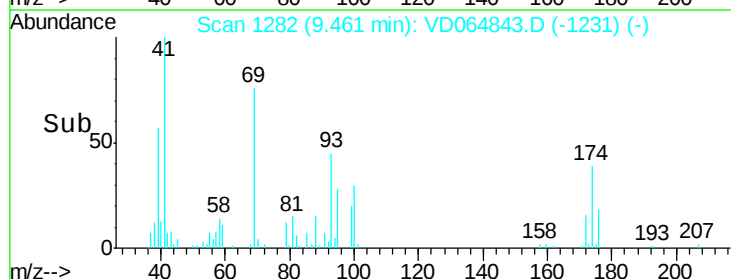
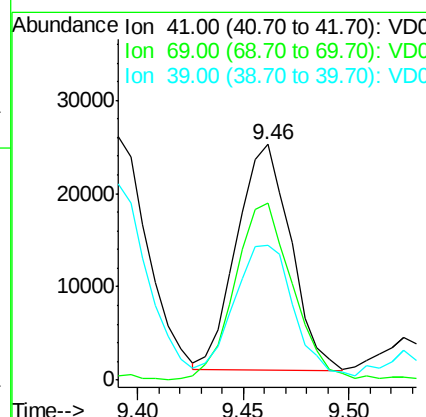
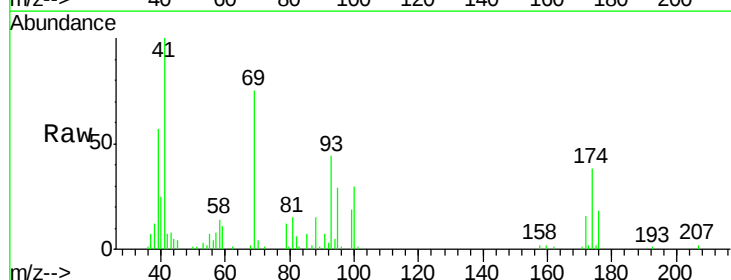
Manual Integrations
APPROVED

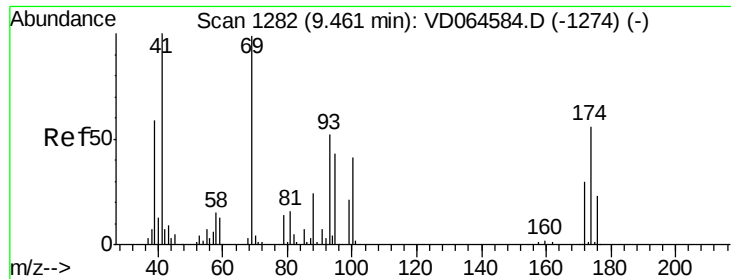
MMDadoda
1/14/2020 1:28:22 PM



#48
Methyl methacrylate
Concen: 19.612 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
41	100		
69	84.6	63.0	94.6
39	63.7	47.4	71.2





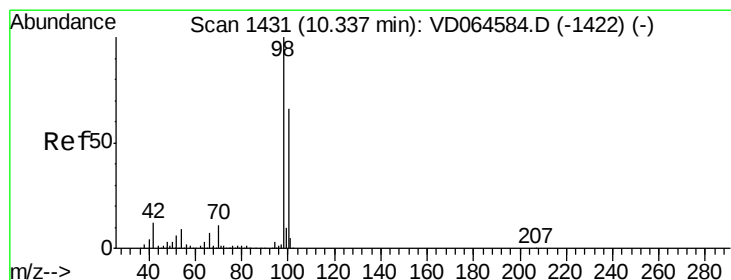
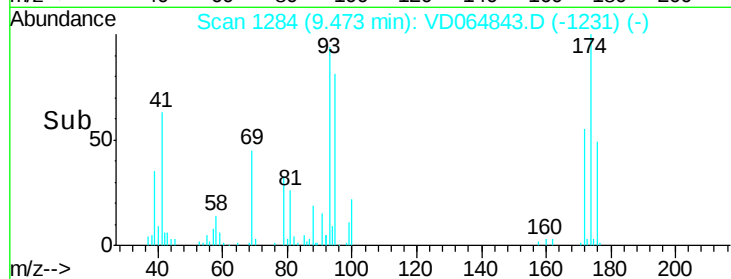
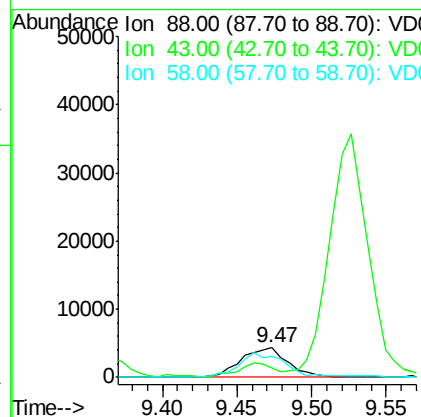
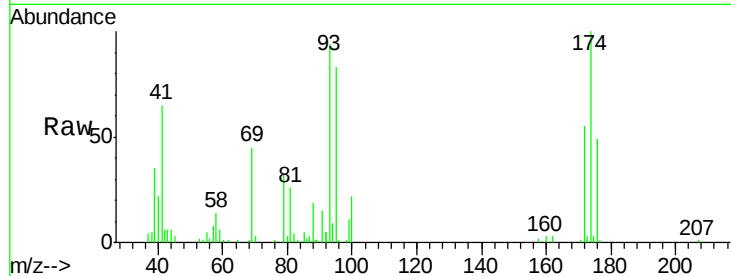
#49
1,4-Dioxane
Concen: 380.542 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.9	27.7	41.5
58	85.2	53.8	80.6

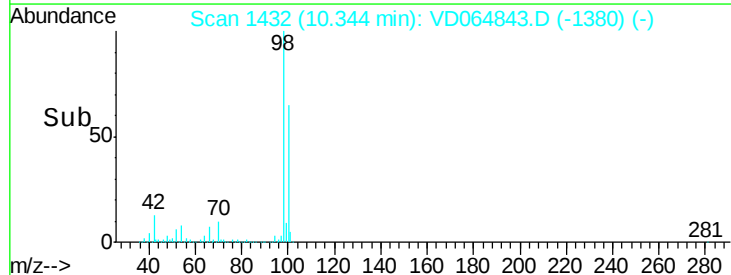
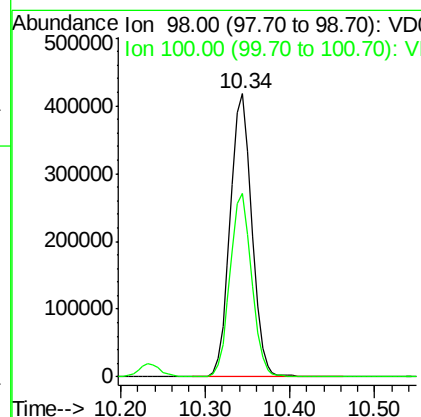
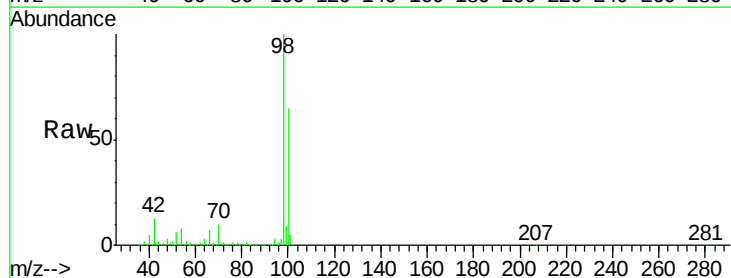
Manual Integrations
APPROVED

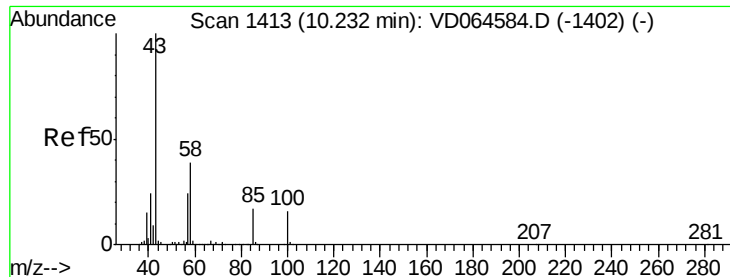
MMDadoda
1/14/2020 1:28:22 PM



#50
Toluene-d8
Concen: 51.071 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 99.993 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 43 Resp: 228697

Ion Ratio Lower Upper

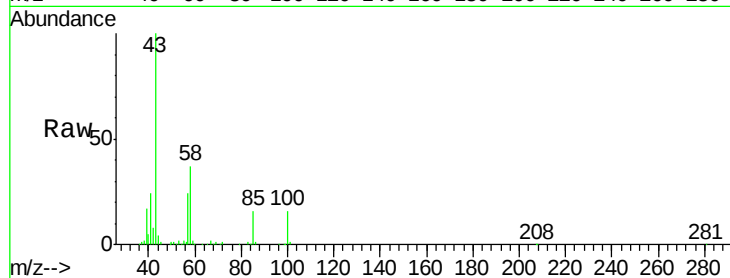
43 100

58 37.1 30.2 45.2

Manual Integrations
APPROVED

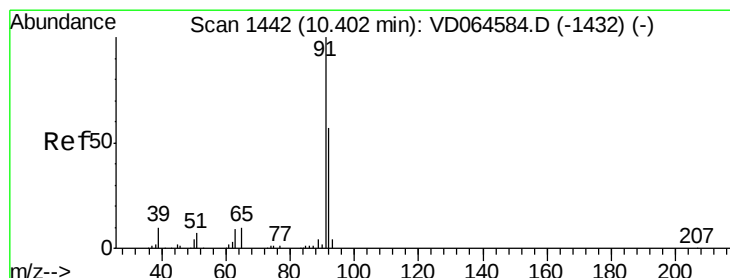
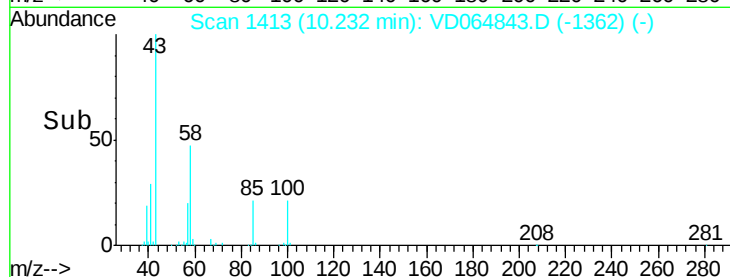
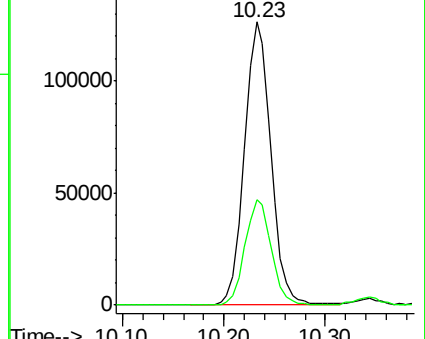
MMDadoda

1/14/2020 1:28:22 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 21.204 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD064843.D

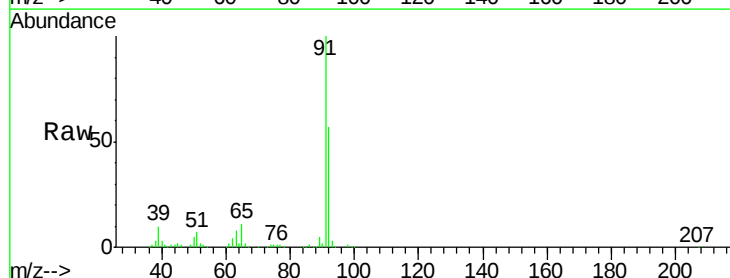
Acq: 13 Jan 2020 12:14

Tgt Ion: 92 Resp: 224728

Ion Ratio Lower Upper

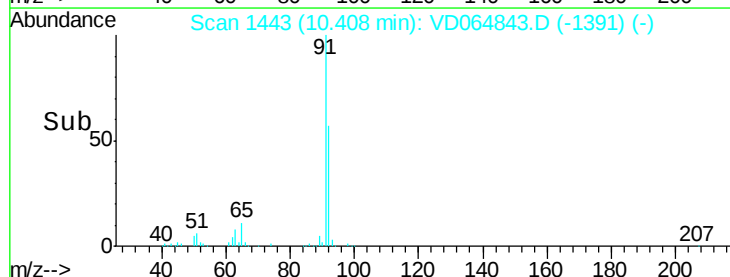
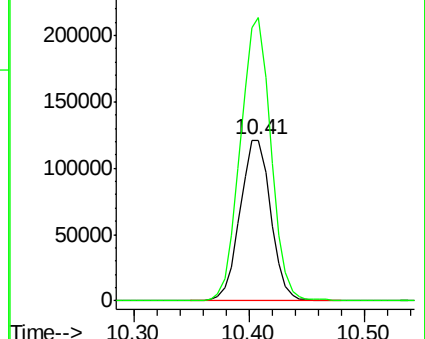
92 100

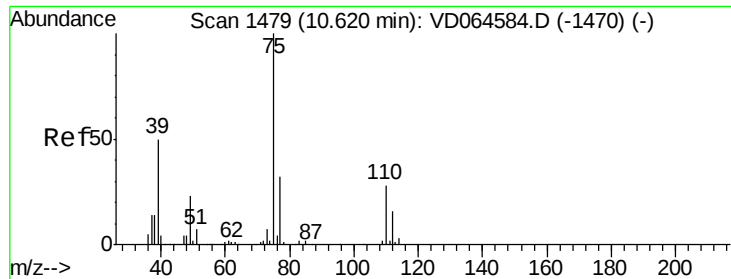
91 174.5 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 21.467 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 75 Resp: 114526

Ion Ratio Lower Upper

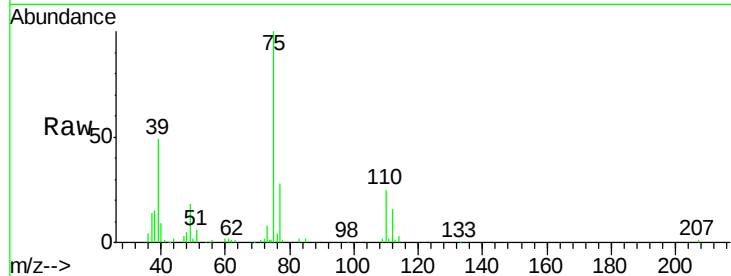
75 100

77 28.2 25.4 38.2

Manual Integrations
APPROVED

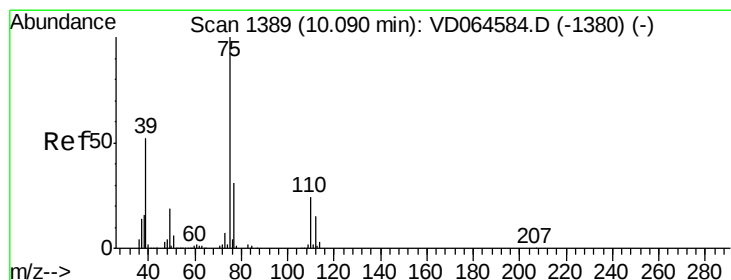
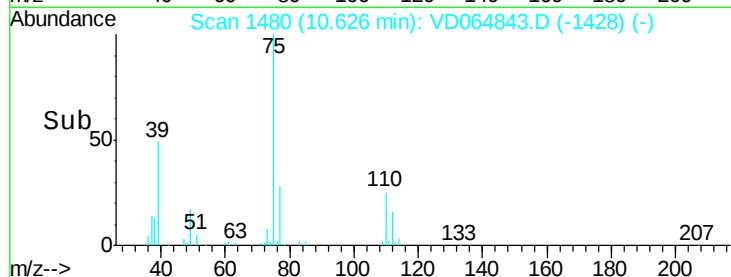
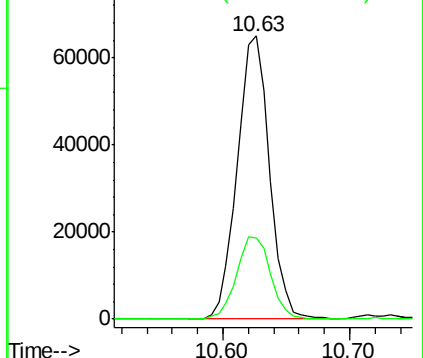
MMDadoda

1/14/2020 1:28:22 PM



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 21.378 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

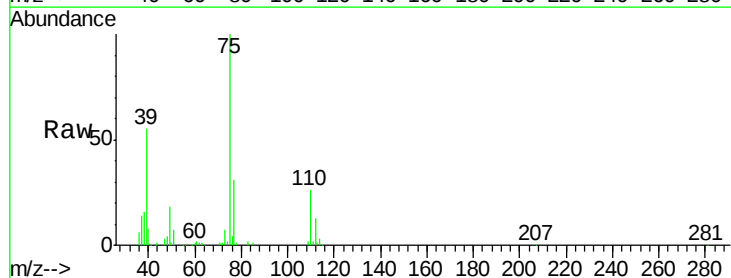
Tgt Ion: 75 Resp: 134486

Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

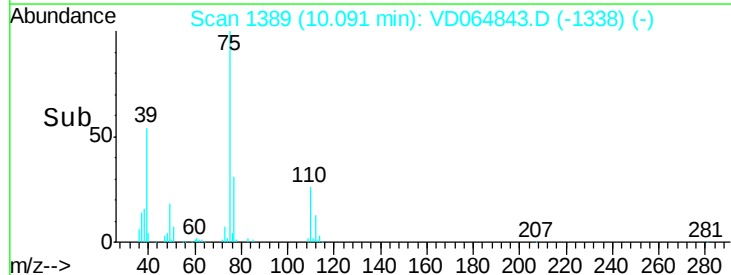
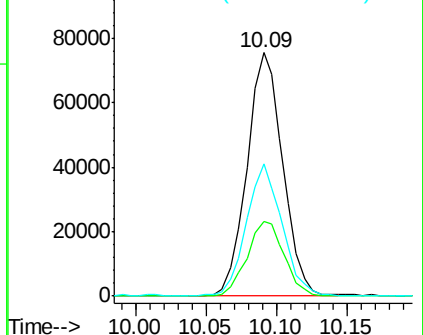
39 54.1 41.4 62.2

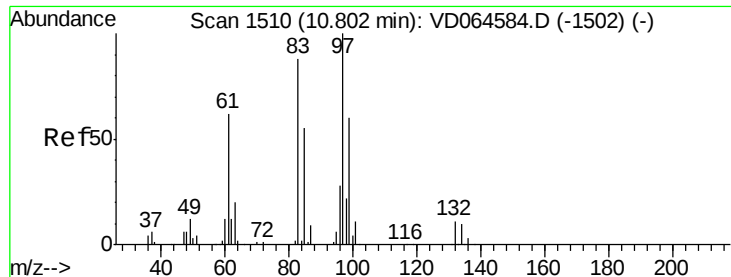


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC





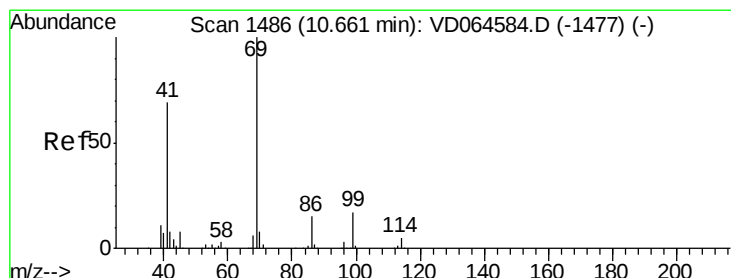
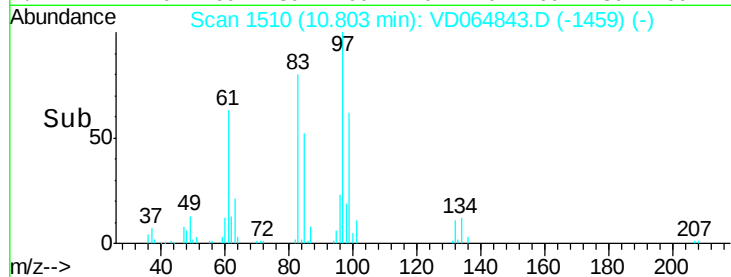
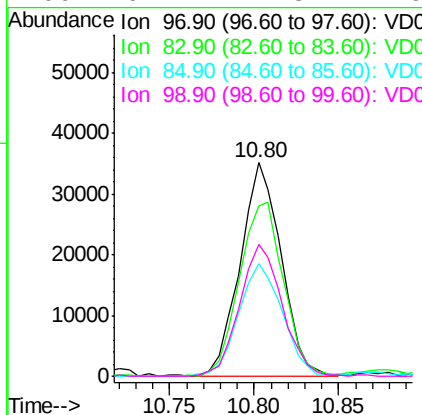
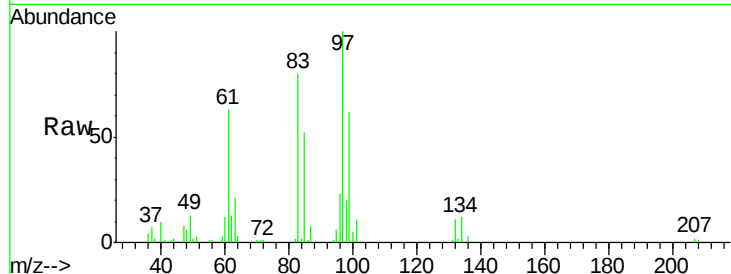
#55
 1,1,2-Trichloroethane
 Concen: 20.503 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	79.5	70.2	105.4
85	52.5	44.0	66.0
99	61.7	47.8	71.6

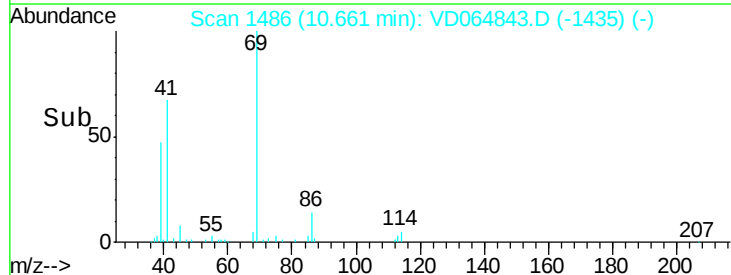
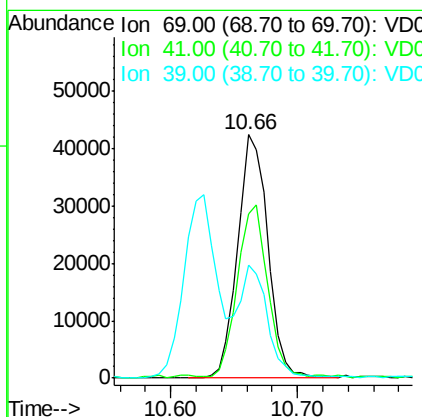
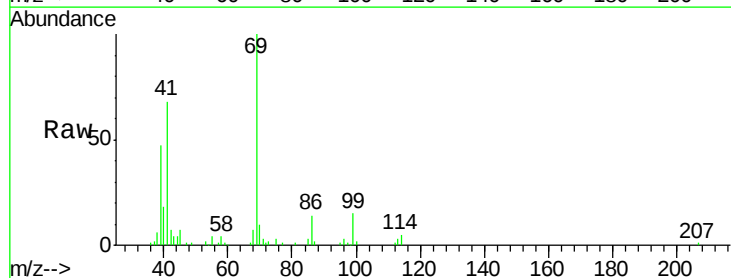
Manual Integrations
 APPROVED

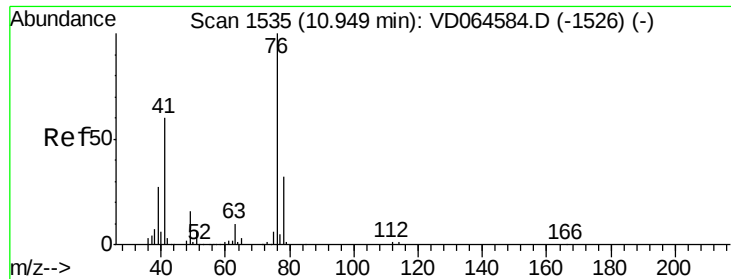
MMDadoda
 1/14/2020 1:28:22 PM



#56
 Ethyl methacrylate
 Concen: 19.440 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.6	55.3	82.9
39	39.5	33.8	50.8





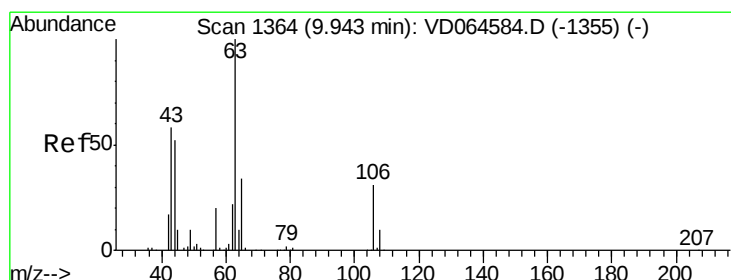
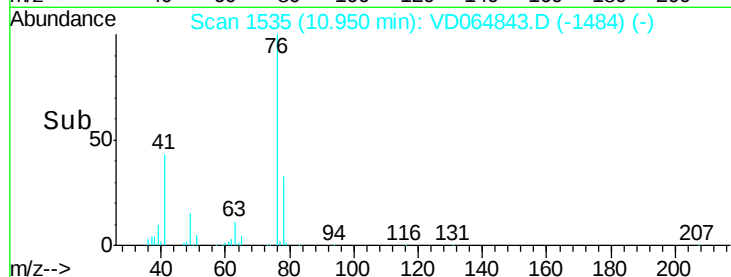
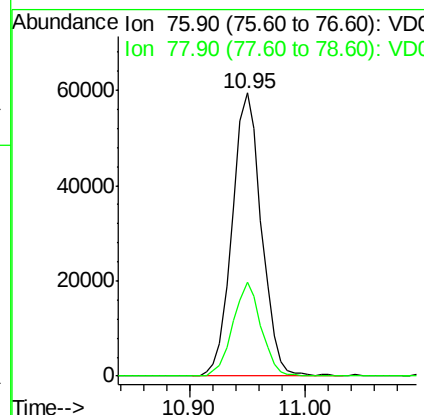
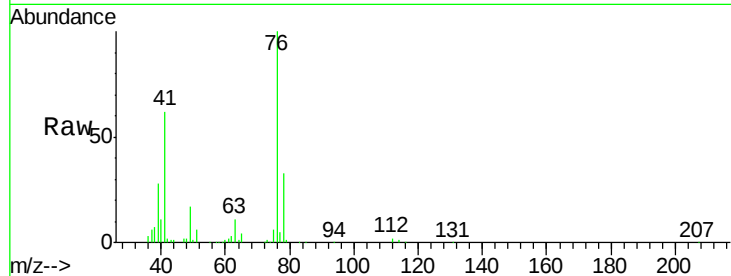
#57
 1,3-Dichloropropane
 Concen: 20.959 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion: 76 Resp: 104587
 Ion Ratio Lower Upper
 76 100
 78 31.9 26.2 39.4

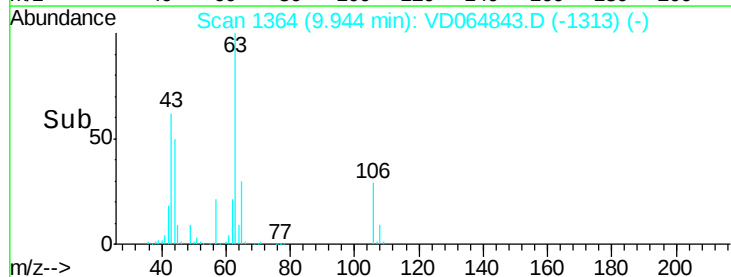
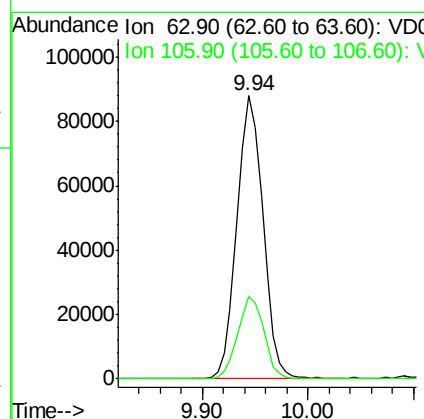
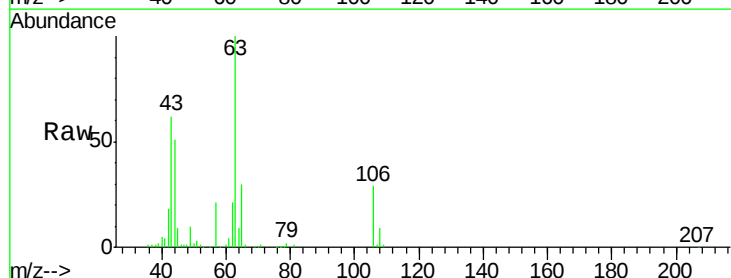
Manual Integrations
 APPROVED

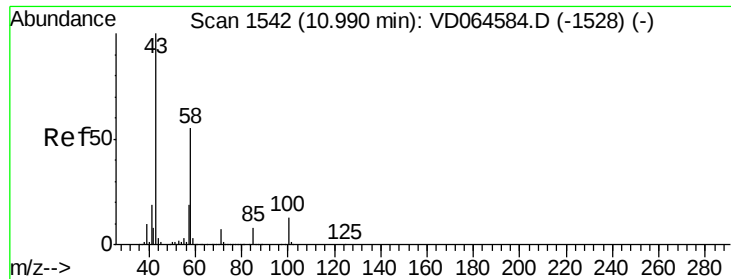
MMDadoda
 1/14/2020 1:28:22 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 109.283 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion: 63 Resp: 150696
 Ion Ratio Lower Upper
 63 100
 106 29.1 23.8 35.8





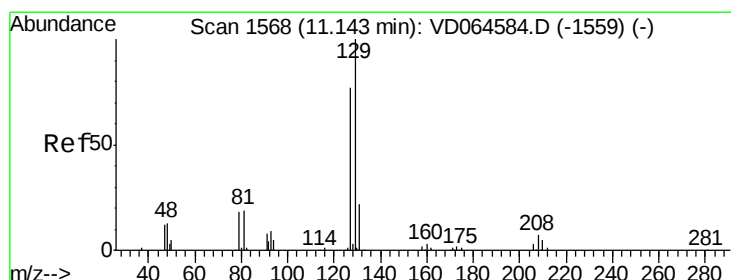
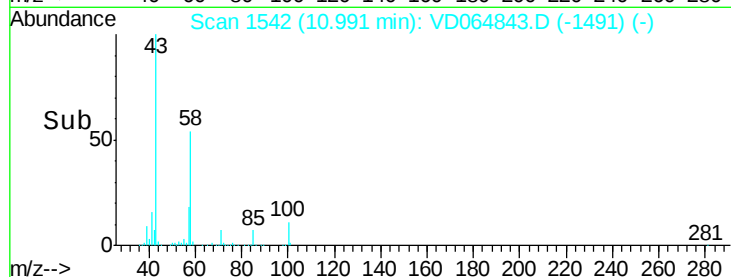
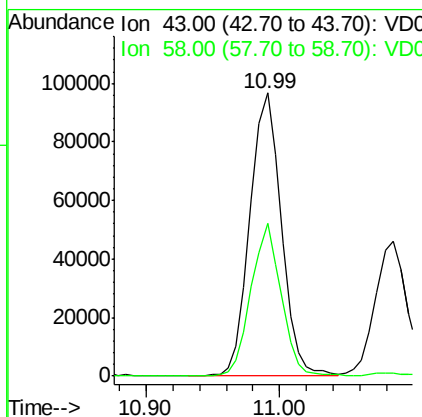
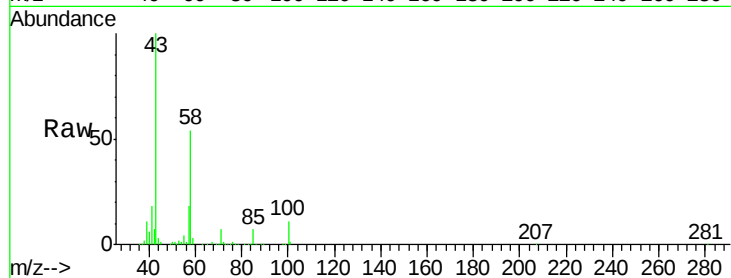
#59
2-Hexanone
Concen: 101.779 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion: 43 Resp: 157993
Ion Ratio Lower Upper
43 100
58 51.7 26.4 79.0

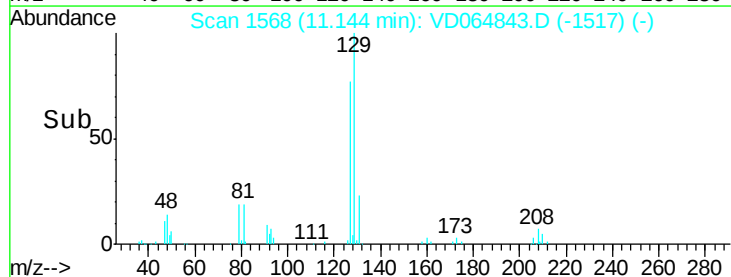
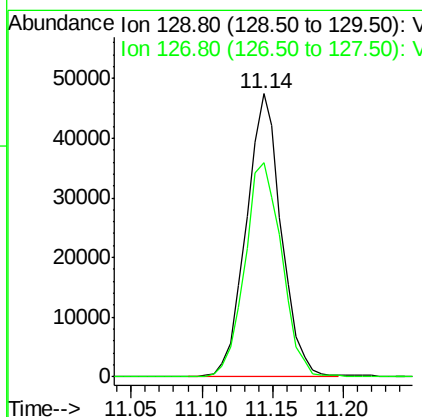
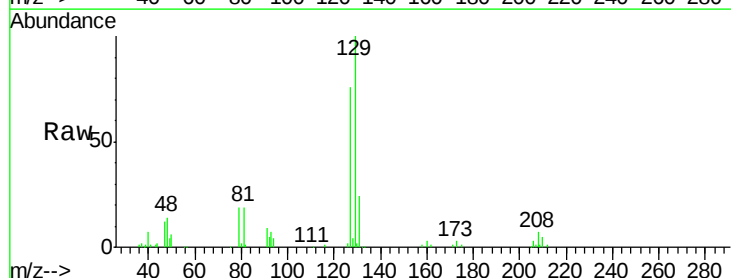
Manual Integrations
APPROVED

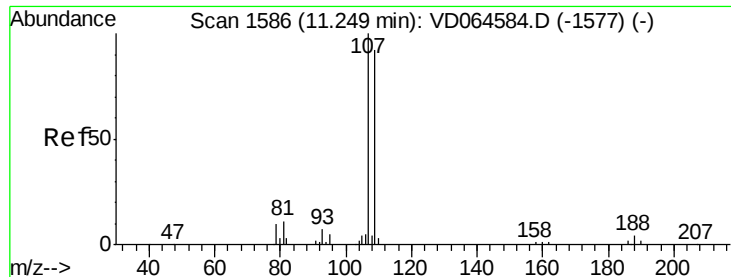
MMDadoda
1/14/2020 1:28:22 PM



#60
Dibromochloromethane
Concen: 20.613 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion: 129 Resp: 82609
Ion Ratio Lower Upper
129 100
127 79.6 38.4 115.2





#61

1,2-Dibromoethane

Concen: 20.777 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 107 Resp: 59391

Ion Ratio Lower Upper

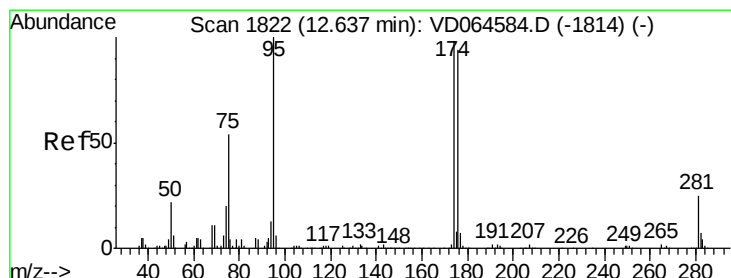
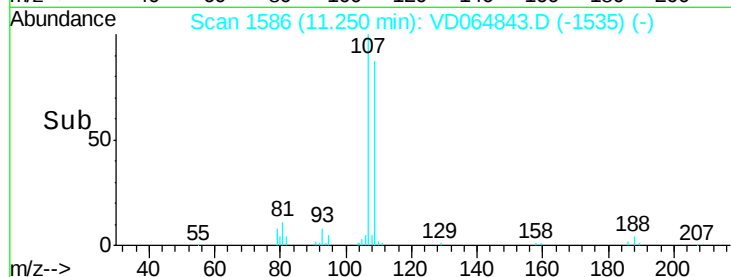
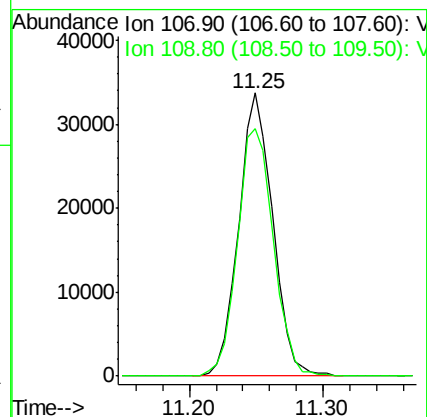
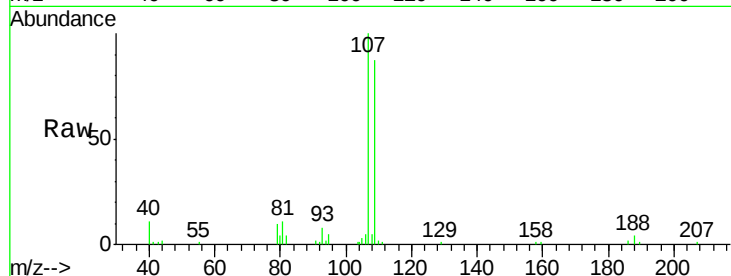
107 100

109 92.5 75.6 113.4

Manual Integrations
APPROVED

MMDadoda

1/14/2020 1:28:22 PM



#62

4-Bromofluorobenzene

Concen: 50.998 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

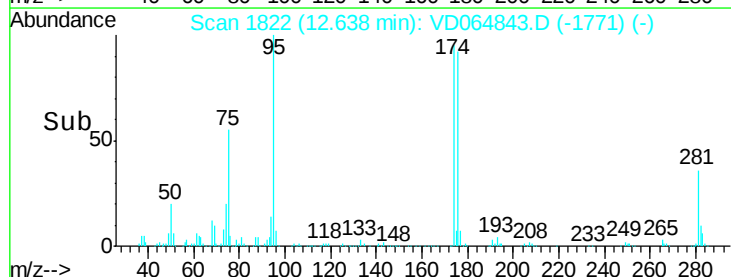
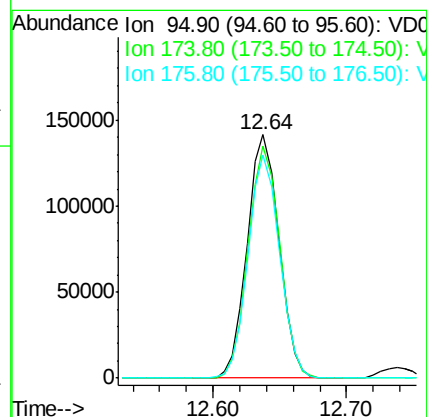
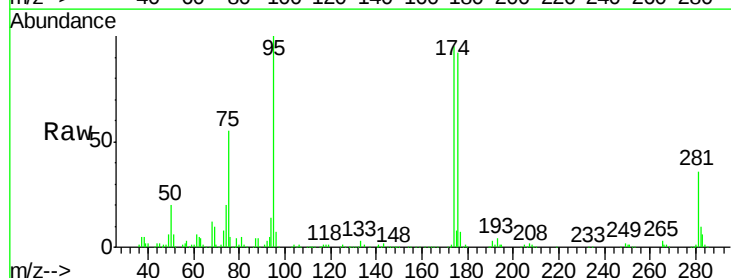
Tgt Ion: 95 Resp: 232965

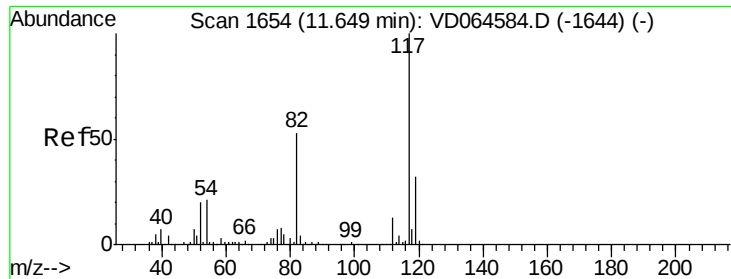
Ion Ratio Lower Upper

95 100

174 94.8 0.0 193.2

176 90.9 0.0 184.2





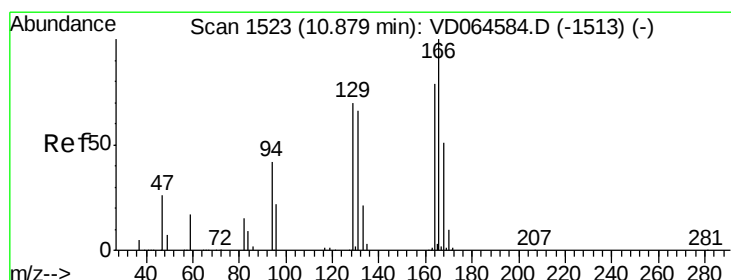
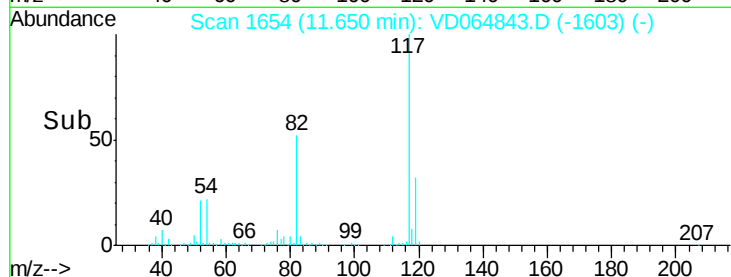
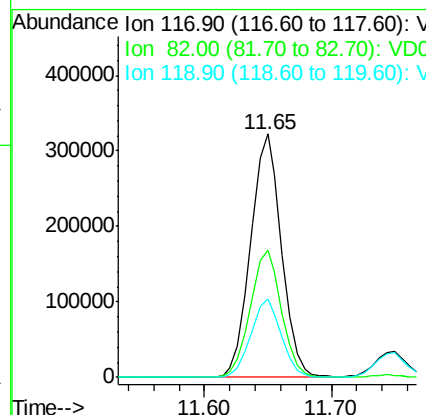
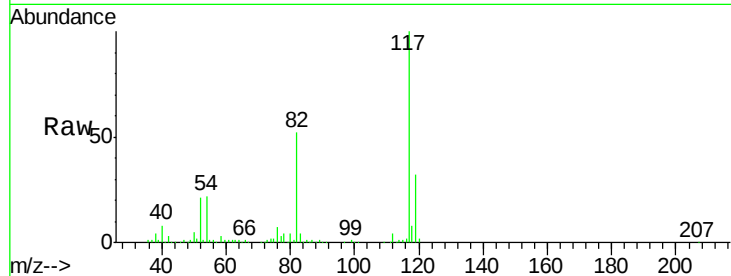
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	546145		
82	52.1		42.2	63.4
119	32.3		26.0	39.0

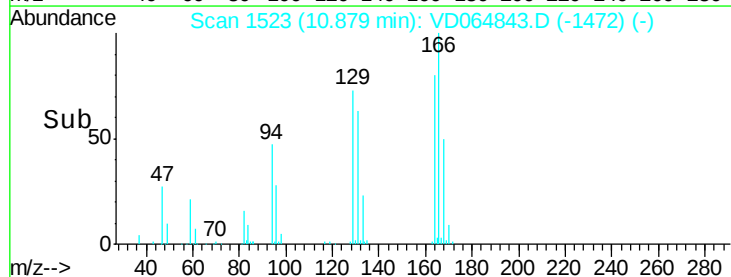
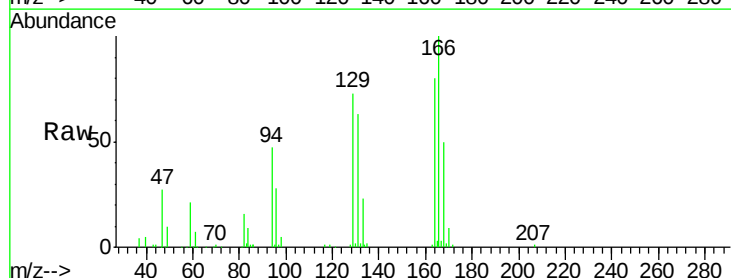
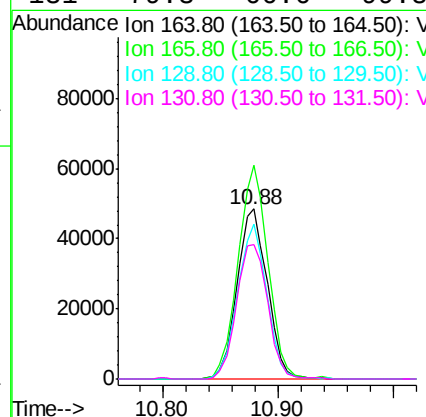
Manual Integrations
APPROVED

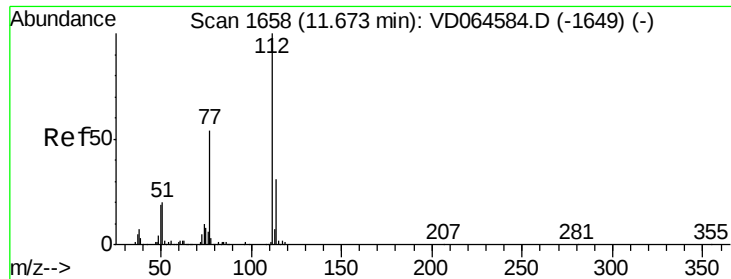
MMDadoda
1/14/2020 1:28:22 PM



#64
Tetrachloroethene
Concen: 20.965 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	87840		
166	125.8		101.3	151.9
129	91.4		70.5	105.7
131	79.3		66.6	99.8





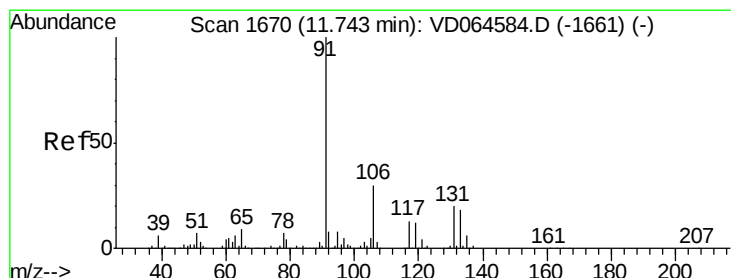
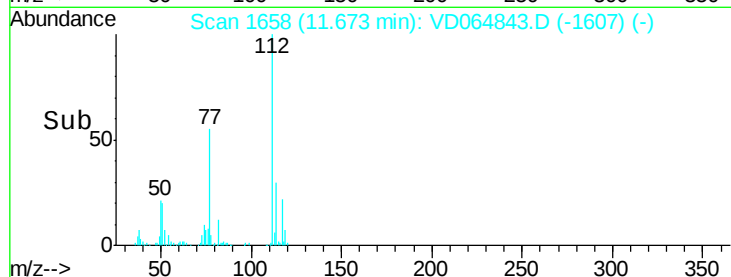
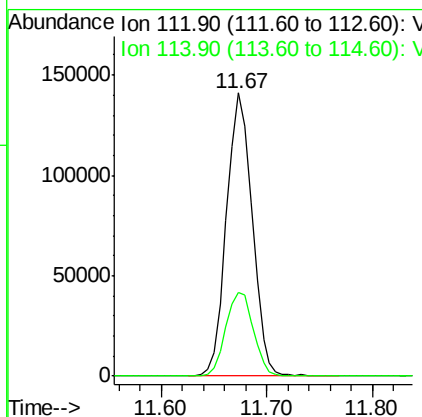
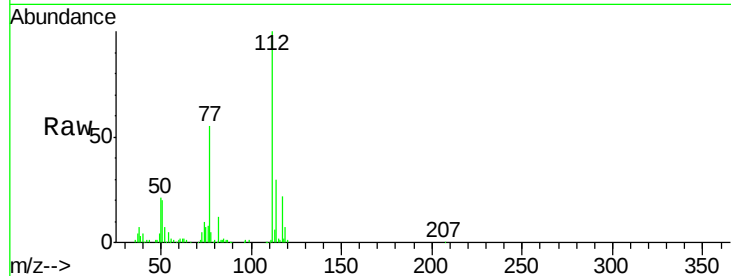
#65
Chlorobenzene
Concen: 21.036 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	29.7	24.8	37.2

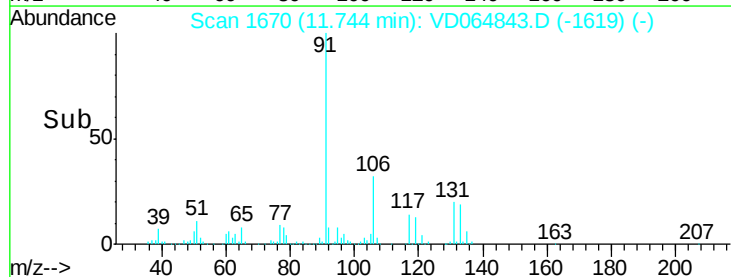
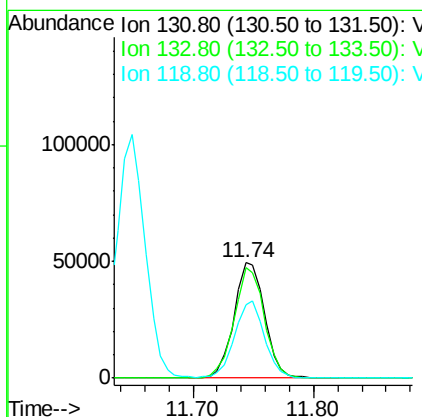
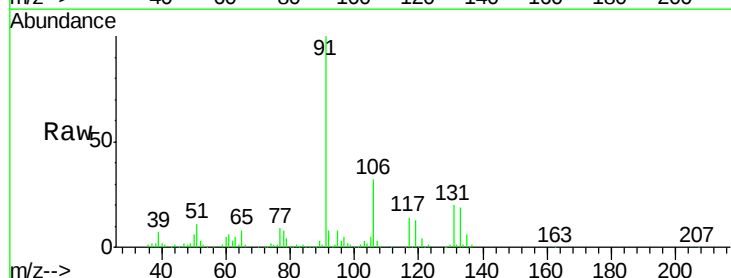
Manual Integrations
APPROVED

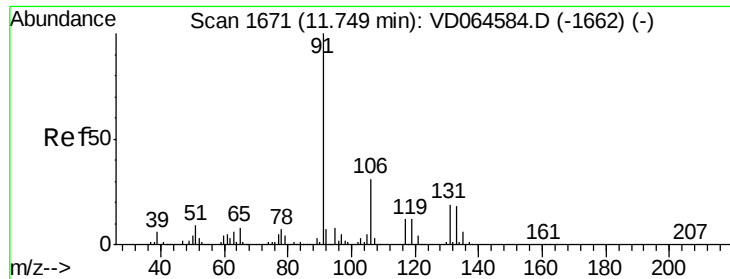
MMDadoda
1/14/2020 1:28:22 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.558 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	48.3	144.8
119	64.9	32.1	96.3





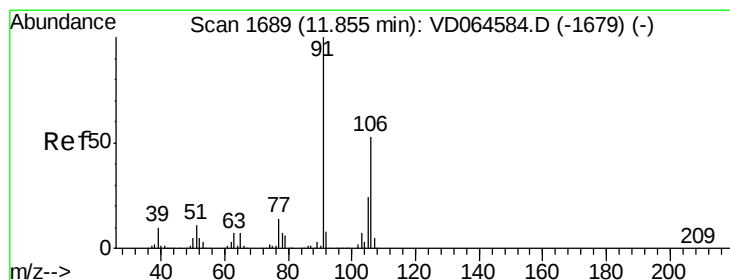
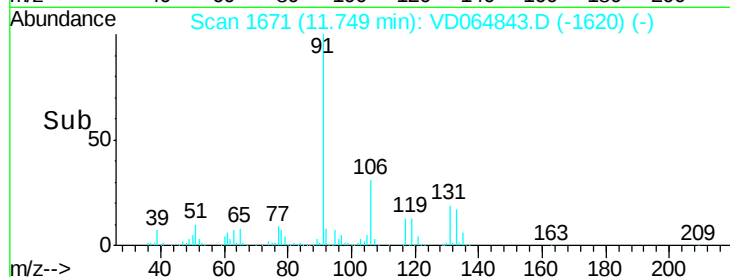
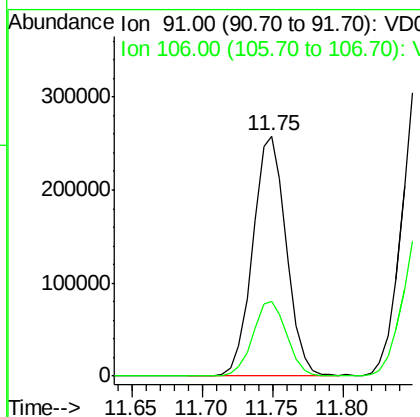
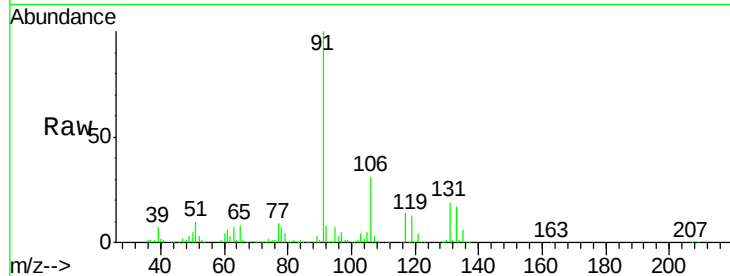
#67
Ethyl Benzene
Concen: 20.893 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion: 91 Resp: 429850
Ion Ratio Lower Upper
91 100
106 31.3 24.6 36.8

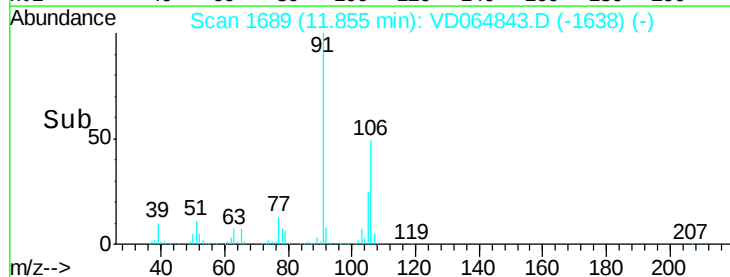
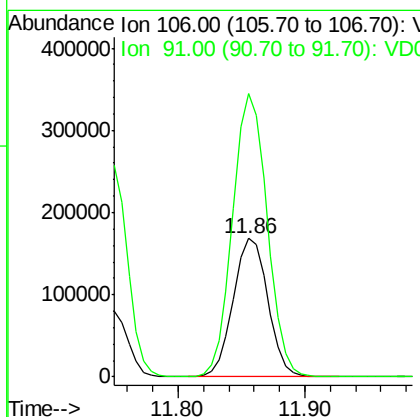
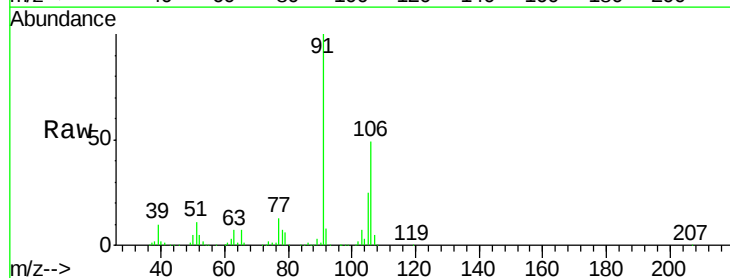
Manual Integrations
APPROVED

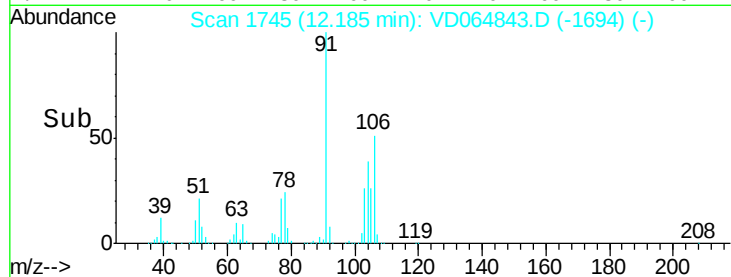
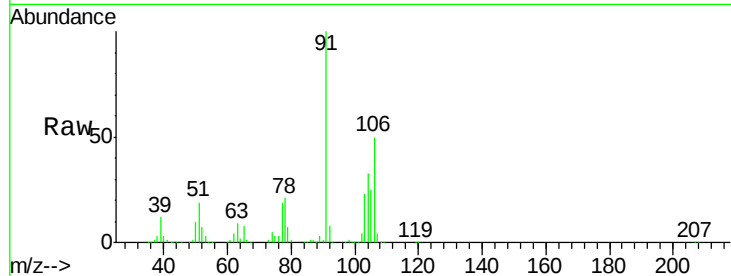
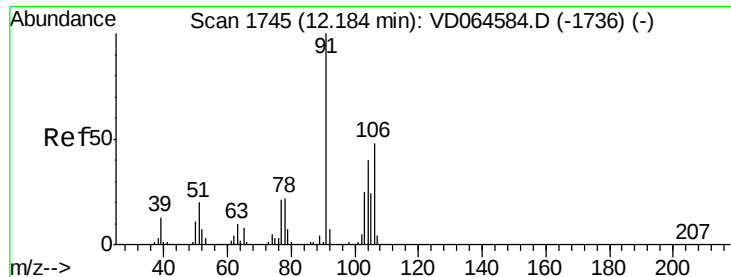
MMDadoda
1/14/2020 1:28:22 PM



#68
m/p-Xylenes
Concen: 40.333 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion: 106 Resp: 320292
Ion Ratio Lower Upper
106 100
91 203.5 156.3 234.5





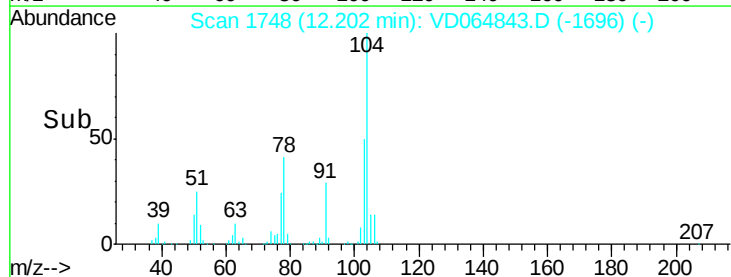
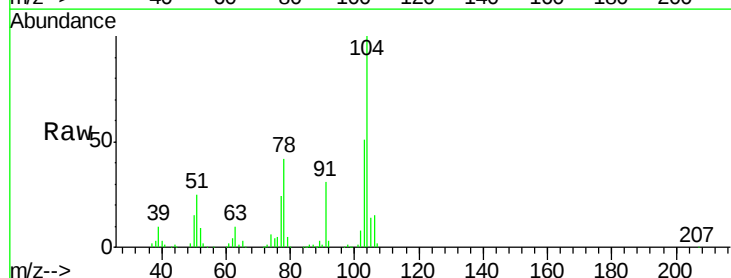
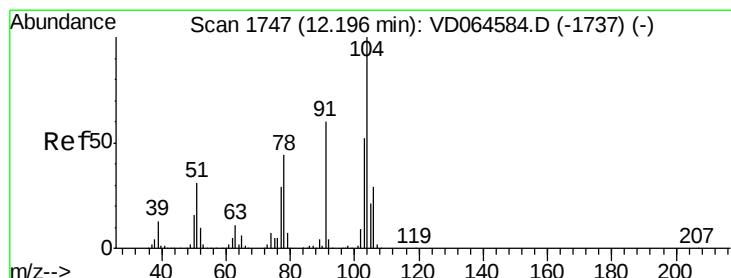
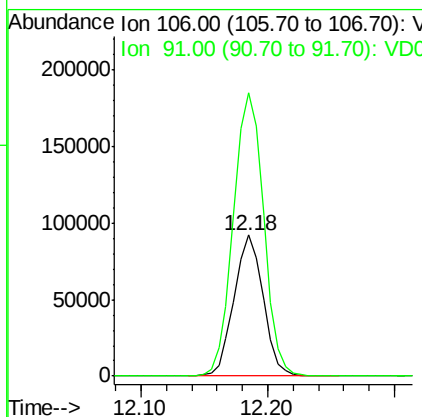
#69
o-Xylene
Concen: 20.490 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tot Ion:106 Resp: 146971
Ion Ratio Lower Upper
106 100
91 208.3 104.8 314.4

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

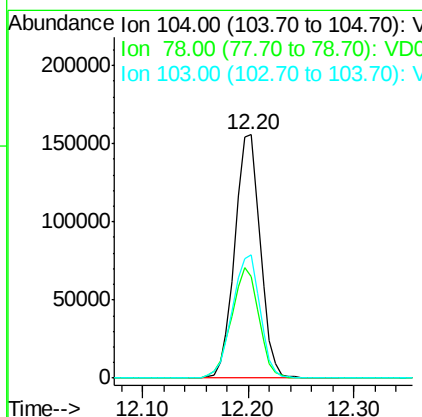
Manual Integrations
APPROVED

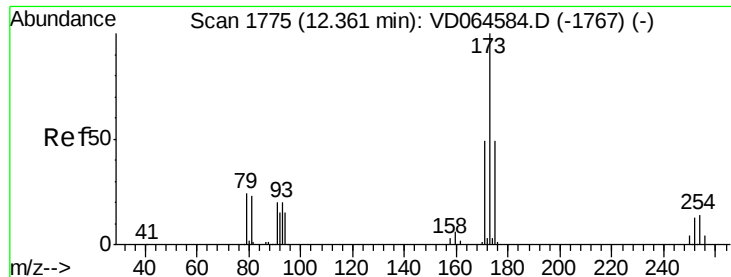
MMDadoda
1/14/2020 1:28:22 PM



#70
Styrene
Concen: 20.605 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion:104 Resp: 259429
Ion Ratio Lower Upper
104 100
78 48.7 38.2 57.2
103 55.2 44.6 67.0





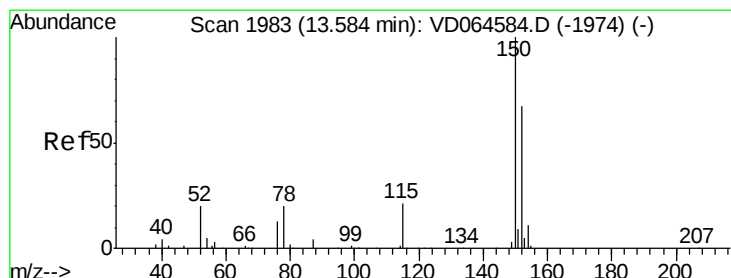
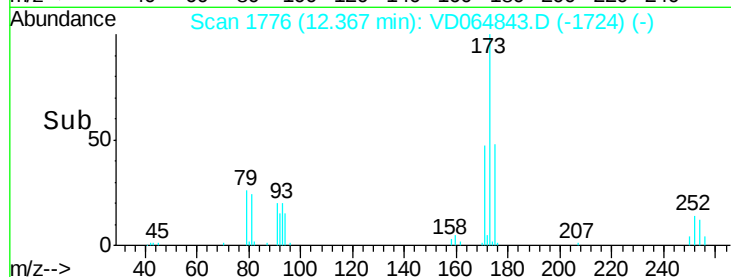
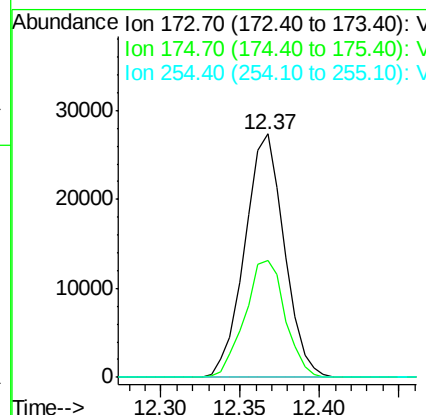
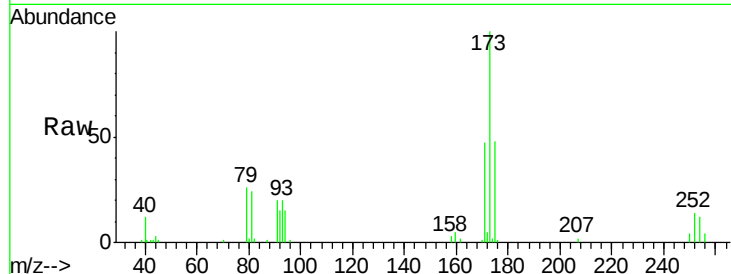
#71
Bromoform
Concen: 19.441 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.6	73.8
254	0.0	0.1	0.1#

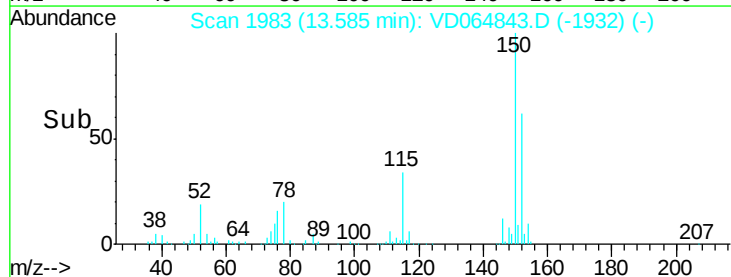
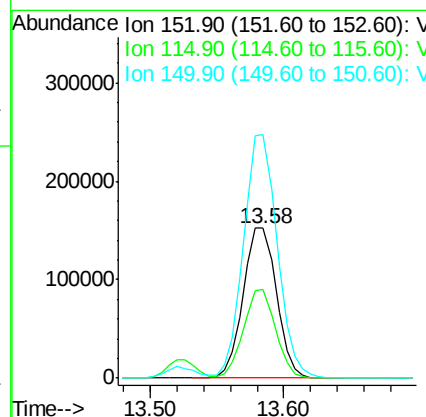
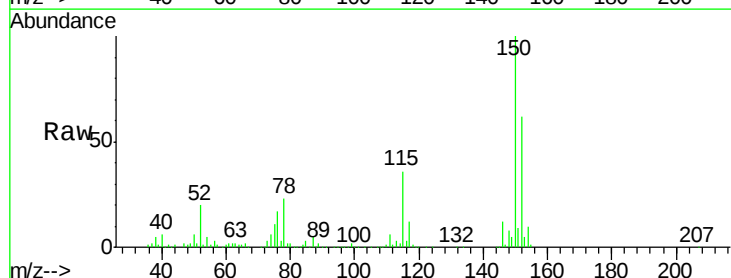
Manual Integrations
APPROVED

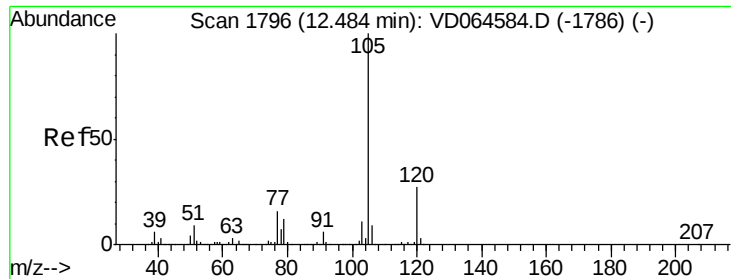
MMDadoda
1/14/2020 1:28:22 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	27.8	83.4
150	164.5	0.0	351.4





#73

Isopropylbenzene

Concen: 21.657 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion:105 Resp: 407707

Ion Ratio Lower Upper

105 100

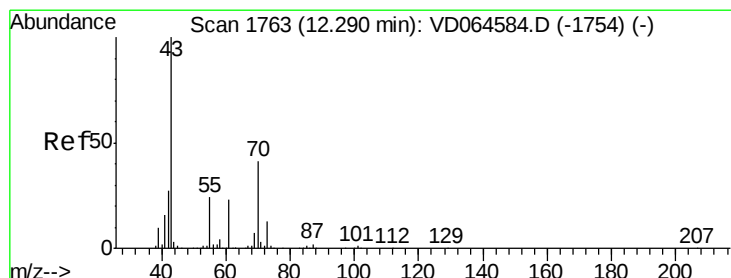
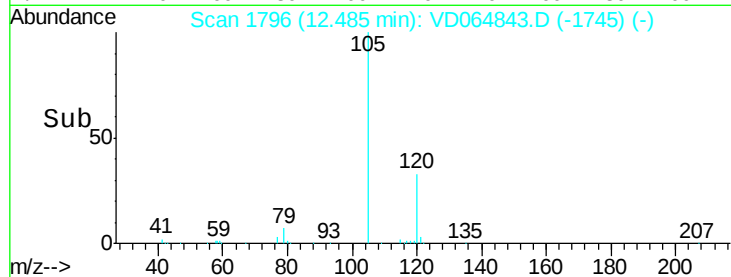
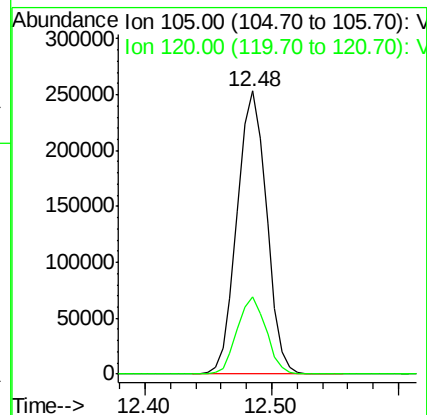
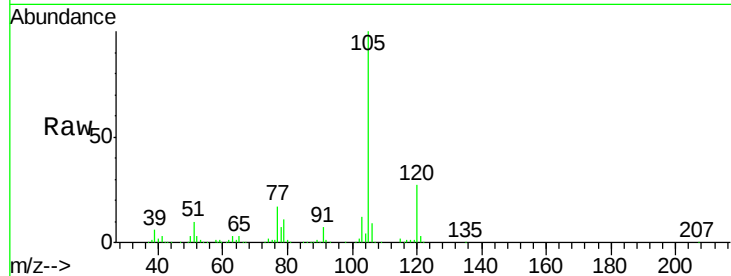
120 26.9 13.5 40.5

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.353 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Tgt Ion: 43 Resp: 81907

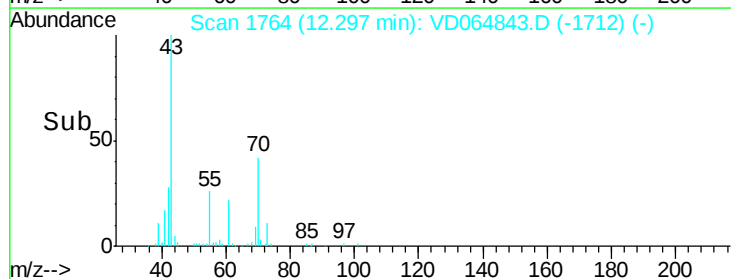
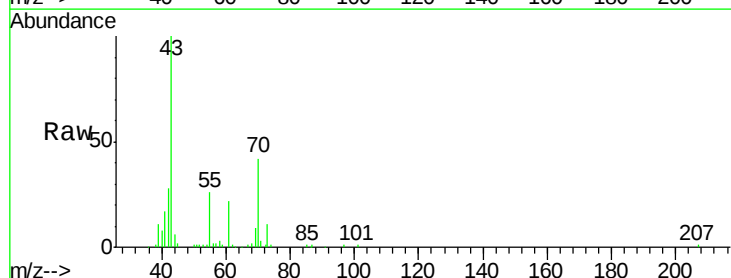
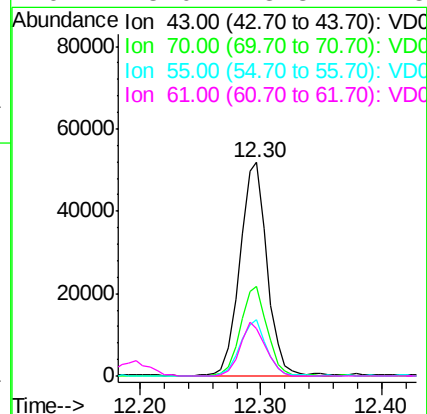
Ion Ratio Lower Upper

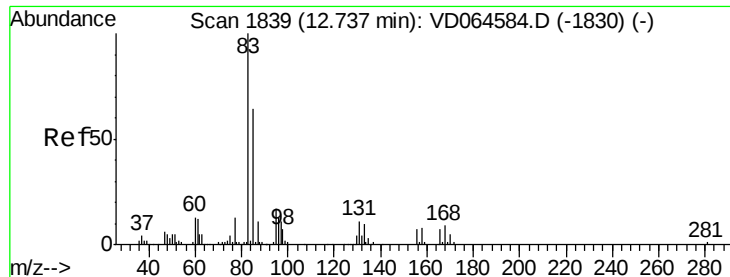
43 100

70 40.7 33.4 50.0

55 25.3 19.4 29.0

61 23.0 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.726 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

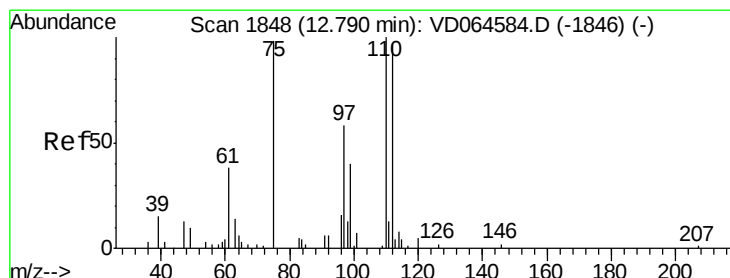
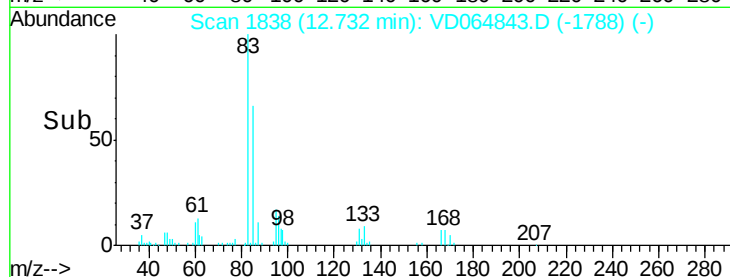
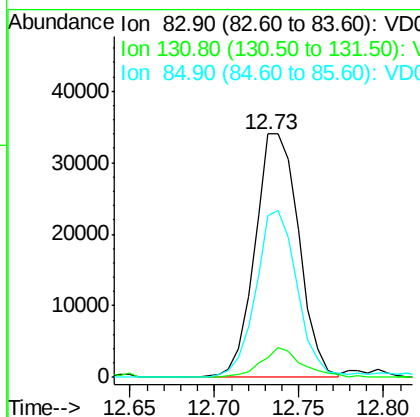
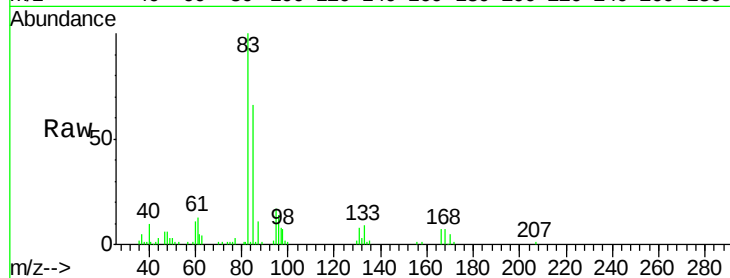
ClientSampleId :

VD0113SBS01

Tot Ion:	83	Resp:	61295
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.8	17.4
85	64.6	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.802 ug/l m

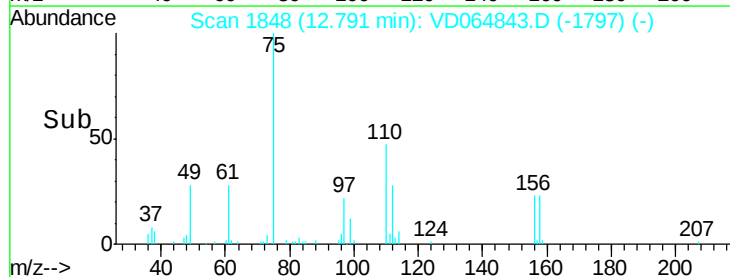
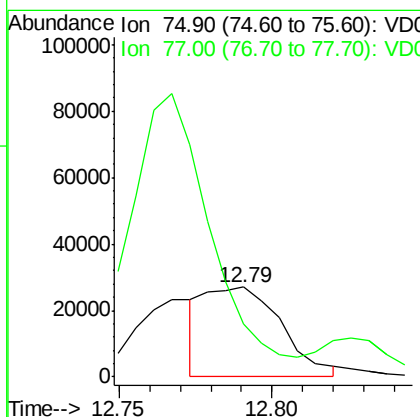
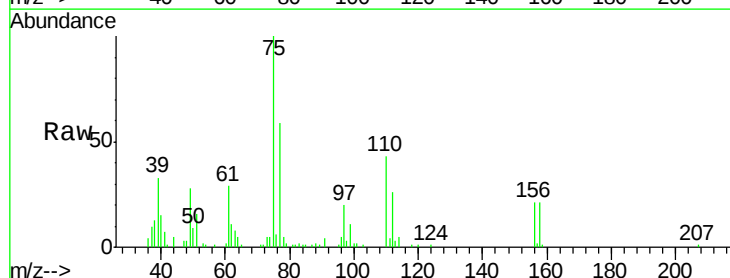
RT: 12.79 min Scan# 1848

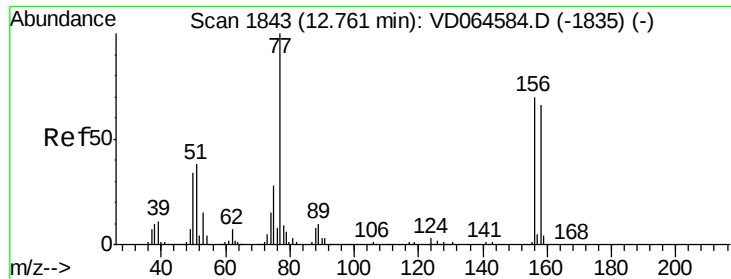
Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Tgt Ion:	75	Resp:	47434
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.560 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

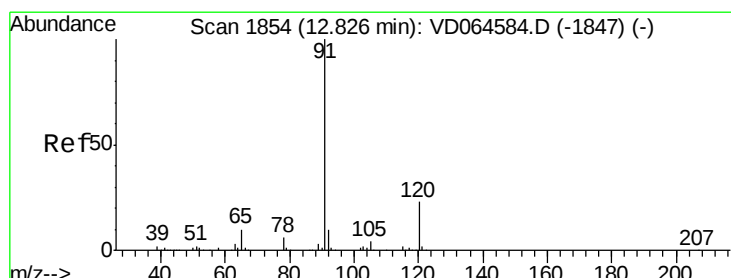
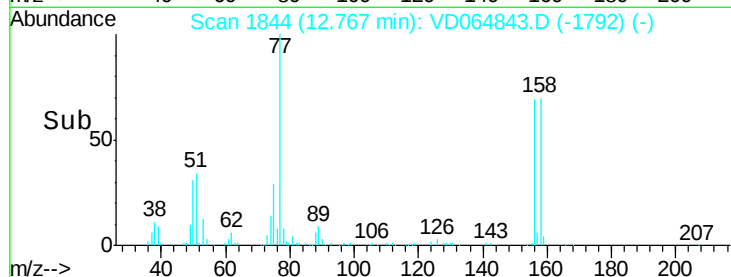
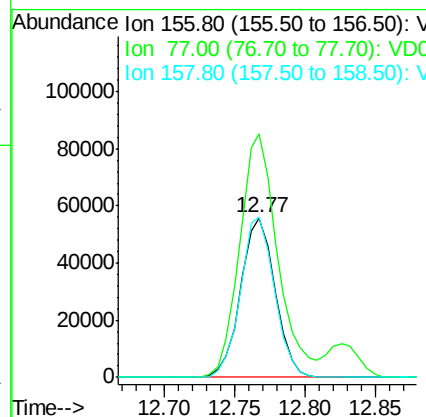
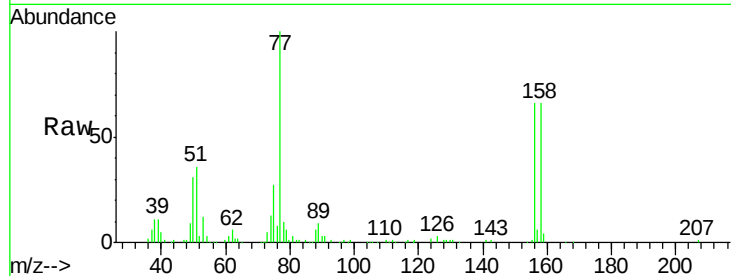
ClientSampleId :

VD0113SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	168.6	80.9	242.7
158	99.0	48.0	144.2

Manual Integrations
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#78

n-propylbenzene

Concen: 21.652 ug/l

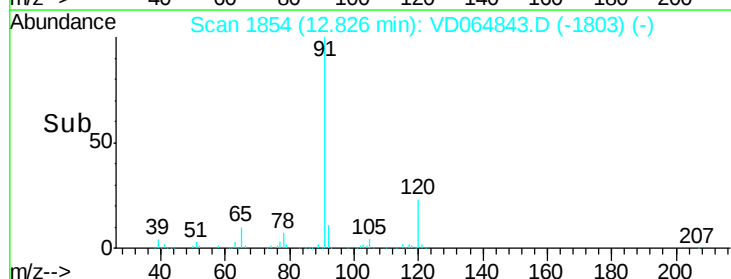
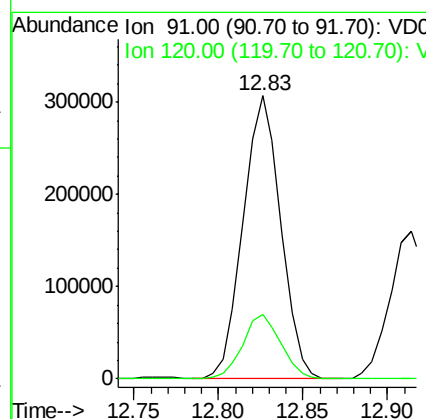
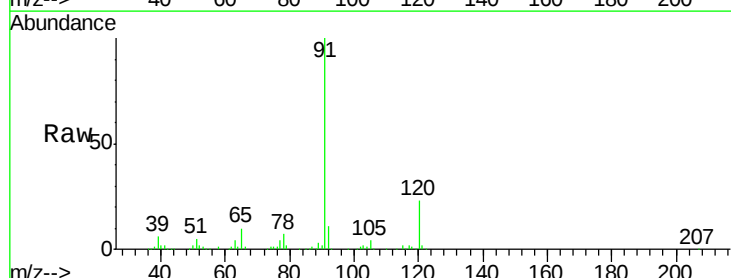
RT: 12.83 min Scan# 1854

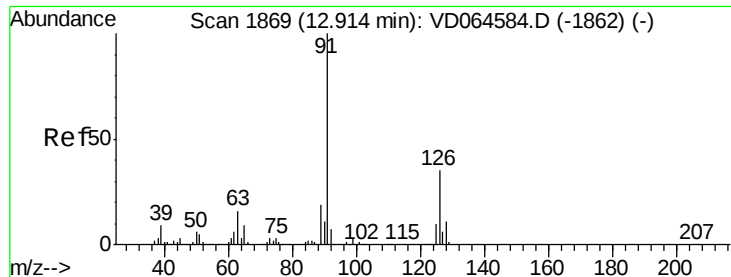
Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.9	35.9





#79

2-Chlorotoluene

Concen: 21.820 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion: 91 Resp: 263265

Ion Ratio Lower Upper

91 100

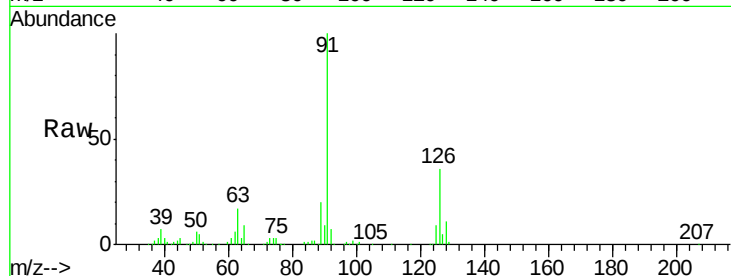
126 35.5 17.8 53.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VD064584.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD064584.D (-1862) (-)

12.91

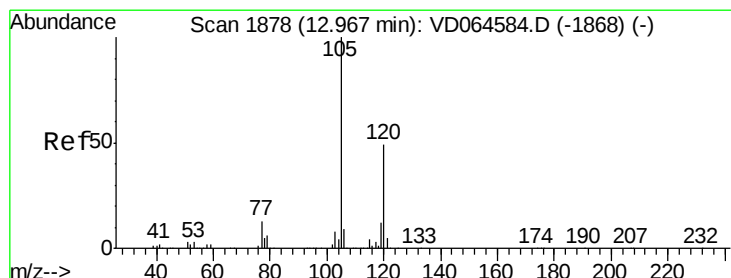
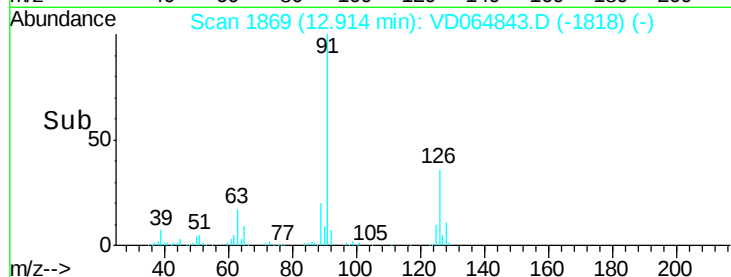
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.306 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064843.D

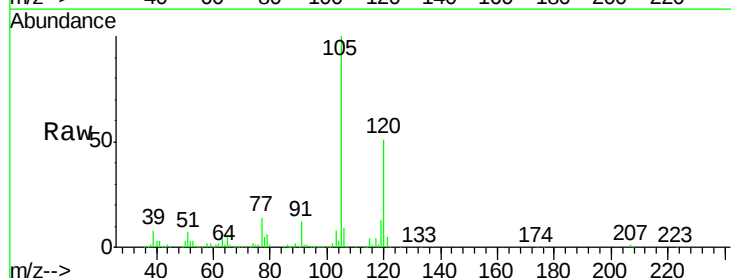
Acq: 13 Jan 2020 12:14

Tgt Ion: 105 Resp: 329486

Ion Ratio Lower Upper

105 100

120 49.3 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VD064584.D (-1868) (-)

Ion 120.00 (119.70 to 120.70): VD064584.D (-1868) (-)

12.97

250000

200000

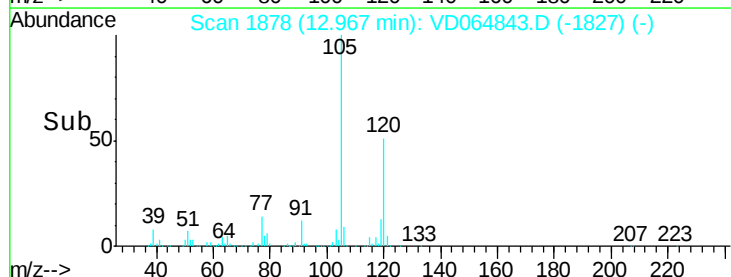
150000

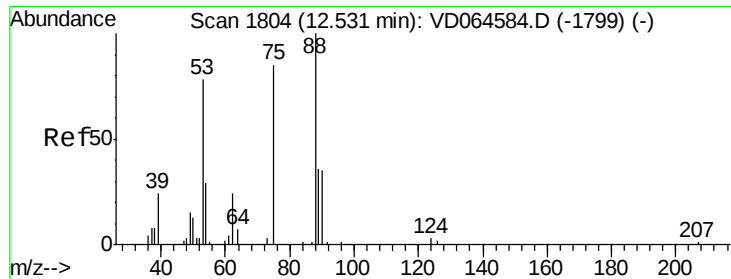
100000

50000

0

Time-->





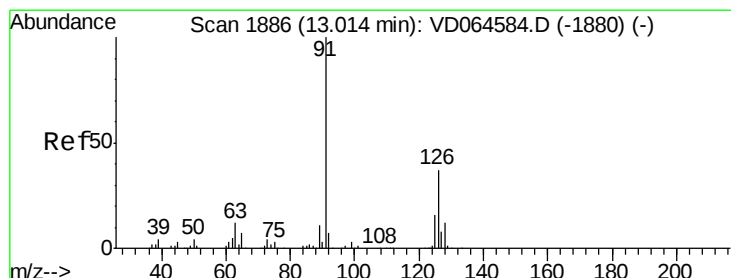
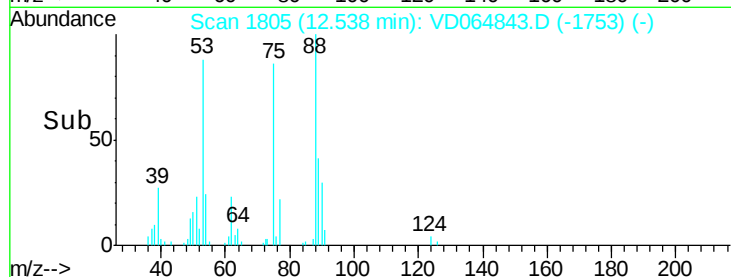
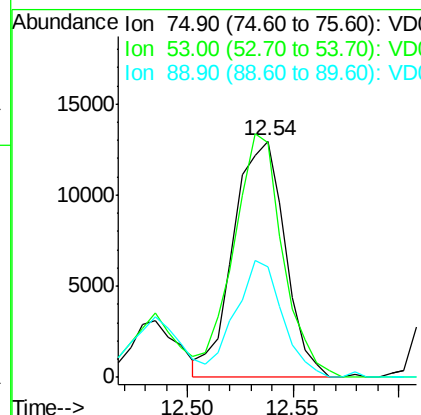
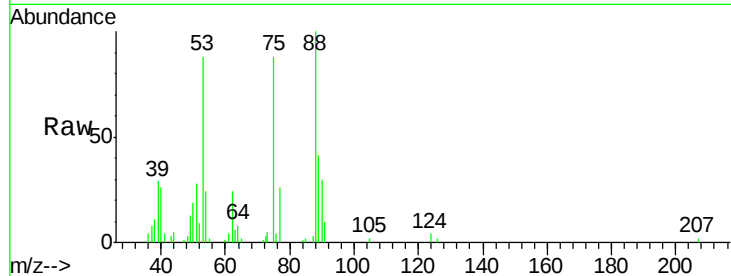
#81
trans-1,4-Dichloro-2-butene
Concen: 22.001 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.2	78.8	118.2
89	45.2	38.3	57.5

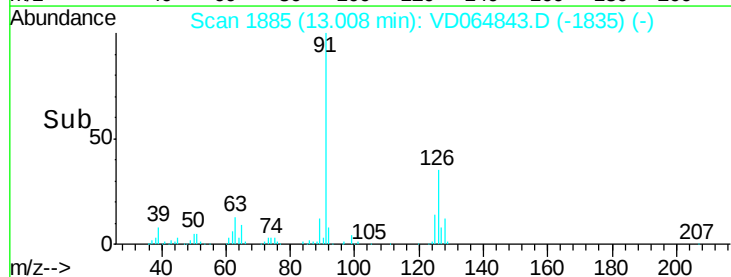
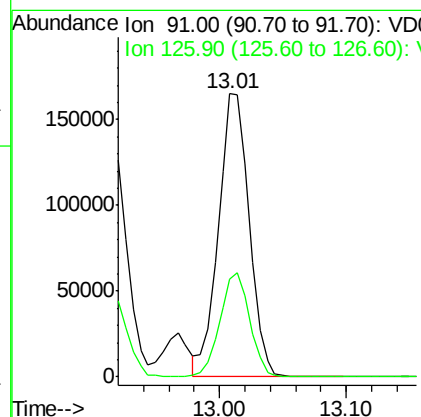
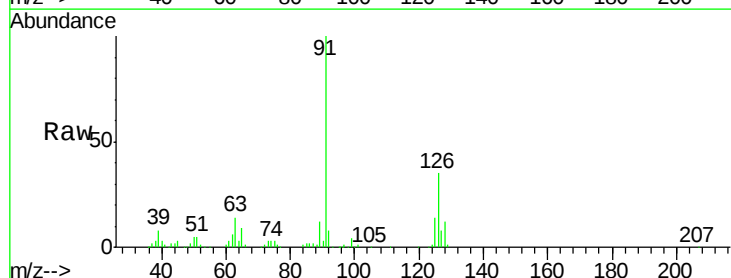
Manual Integrations
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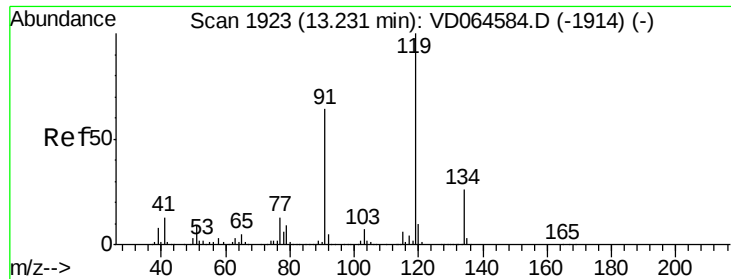
MMDadoda
1/14/2020 1:28:22 PM



#82
4-Chlorotoluene
Concen: 21.664 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.8	53.5





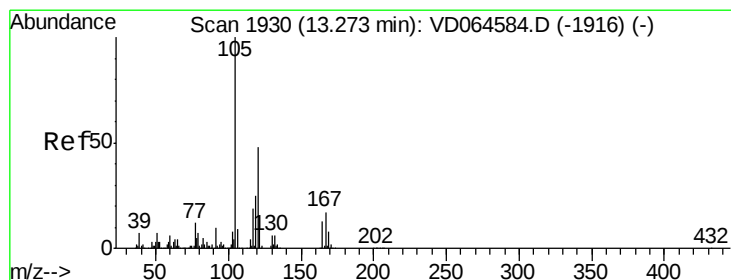
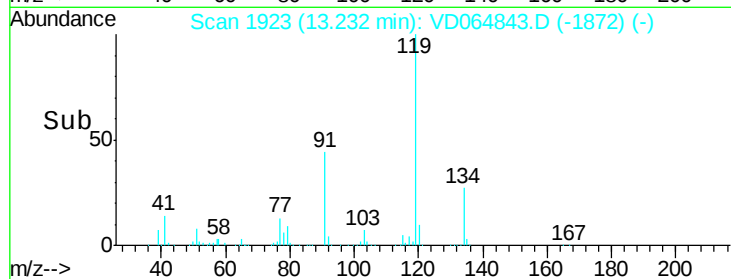
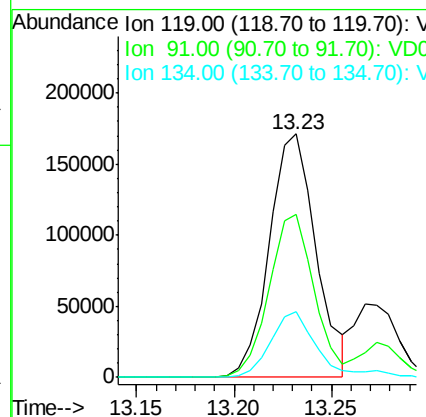
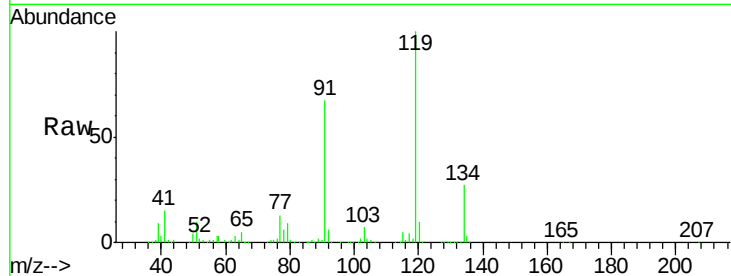
#83
tert-Butylbenzene
Concen: 21.144 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	283912		
91	64.6	30.8	92.4	
134	27.3	12.8	38.3	

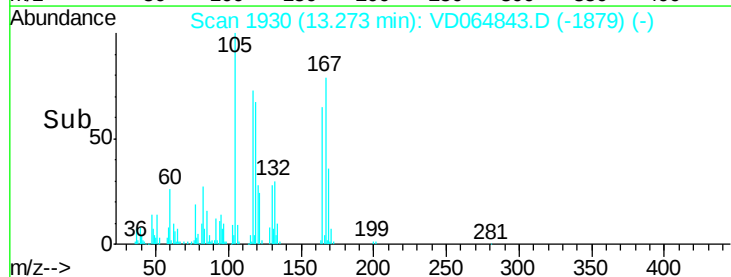
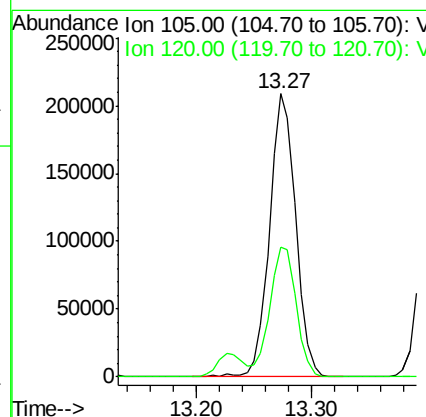
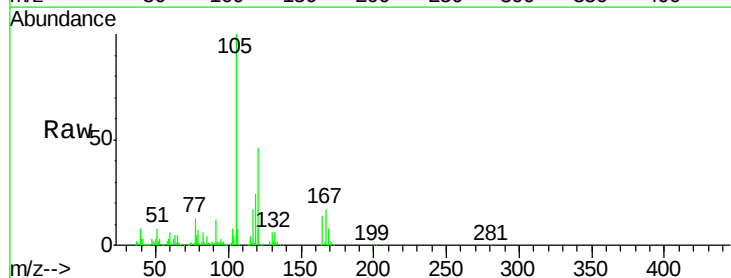
Manual Integrations
APPROVED

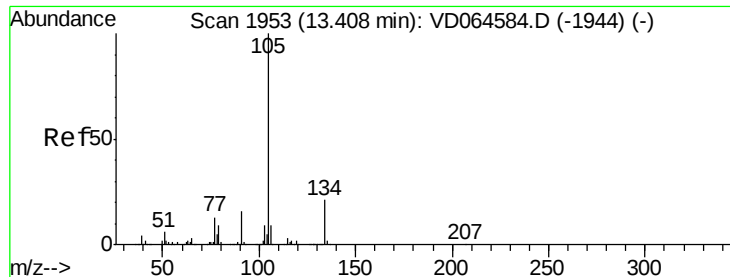
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#84
1,2,4-Trimethylbenzene
Concen: 21.456 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	330463		
120	46.6	23.8	71.2	





#85

sec-Butylbenzene

Concen: 21.759 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD0113SBS01

Tot Ion:105 Resp: 400537

Ion Ratio Lower Upper

105 100

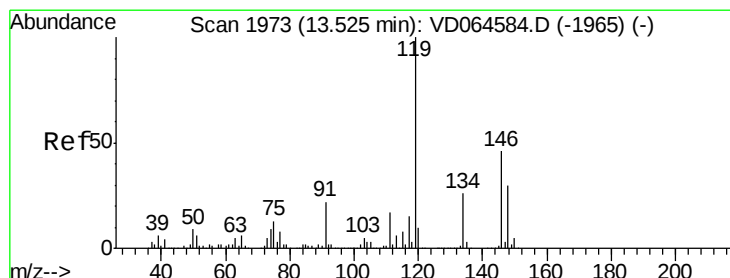
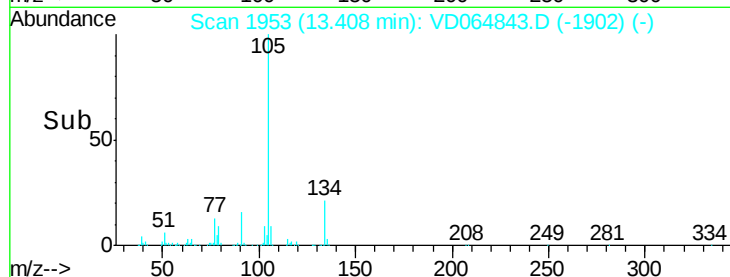
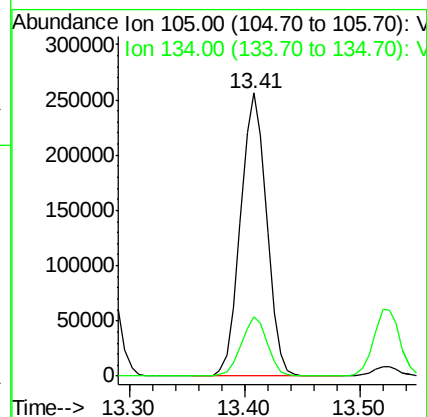
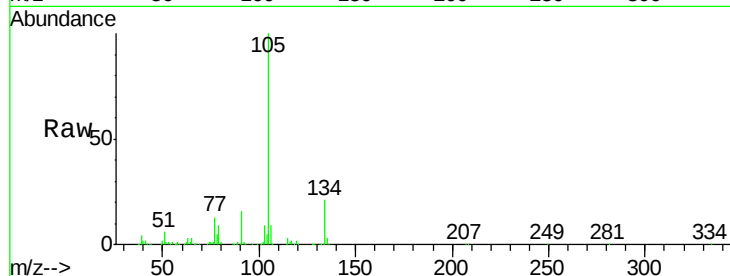
134 20.9 10.6 31.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 20.696 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064843.D

Acq: 13 Jan 2020 12:14

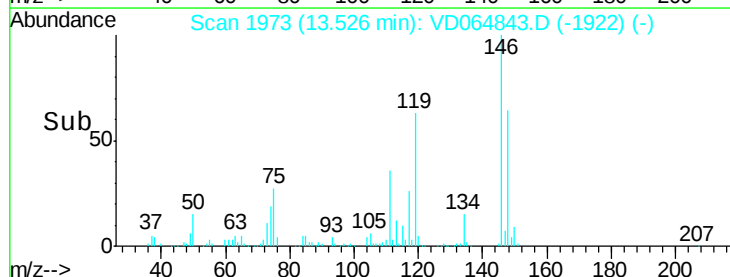
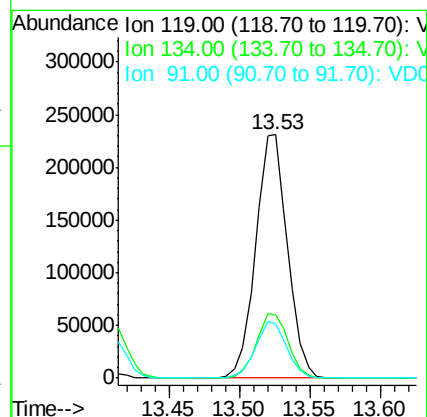
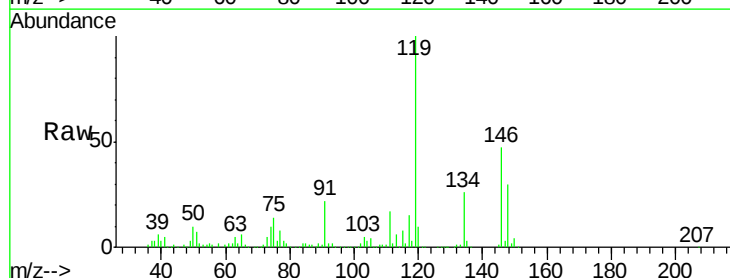
Tgt Ion:119 Resp: 364273

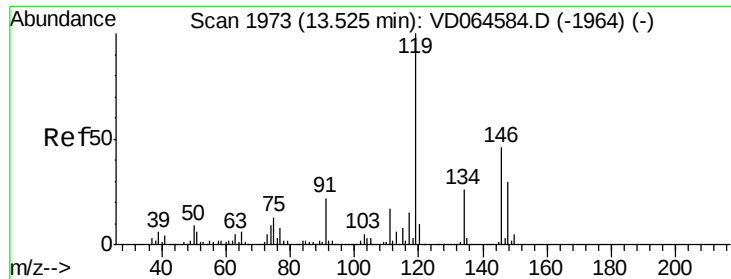
Ion Ratio Lower Upper

119 100

134 26.4 13.4 40.1

91 22.6 11.2 33.6





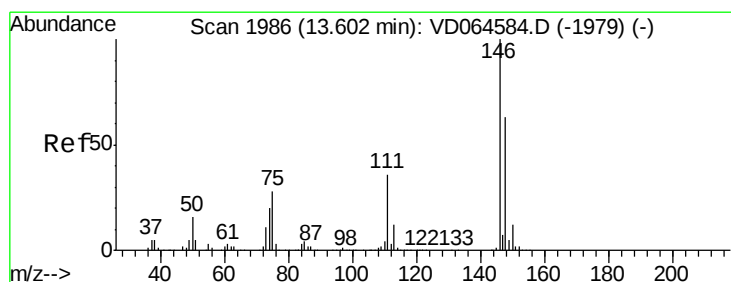
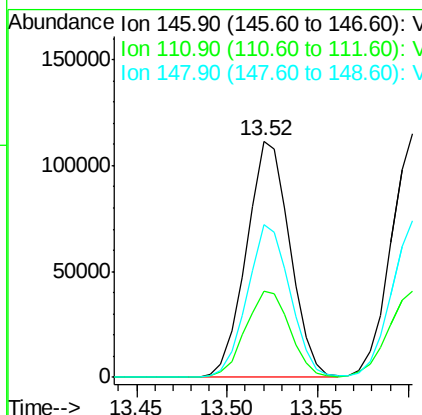
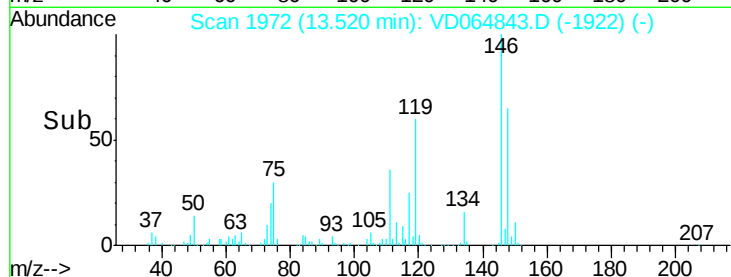
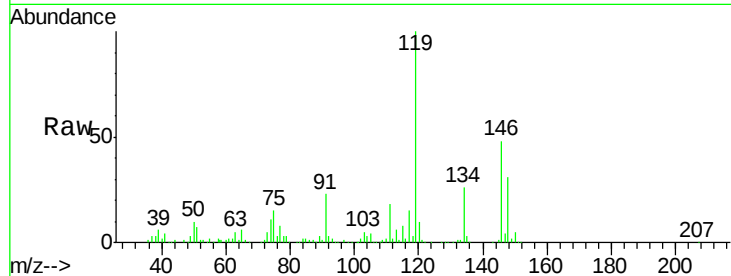
#87
 1,3-Dichlorobenzene
 Concen: 21.108 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.8	56.4
148	63.7	32.5	97.5

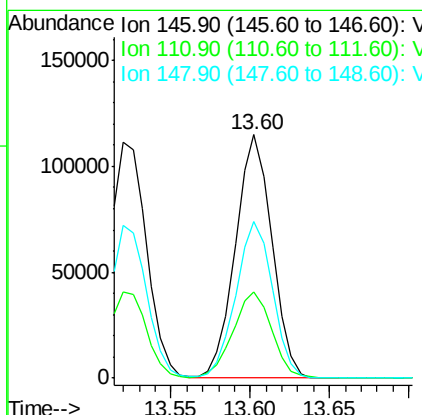
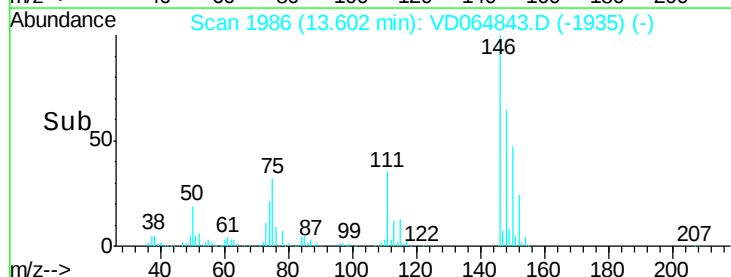
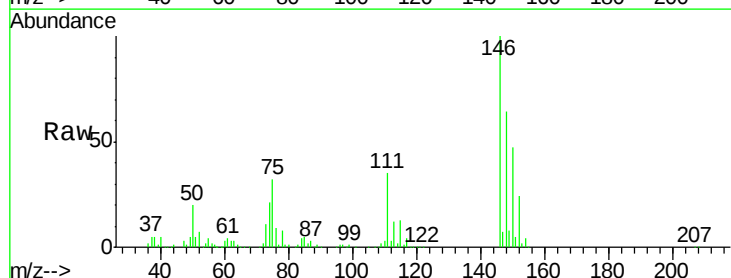
Manual Integrations
 APPROVED

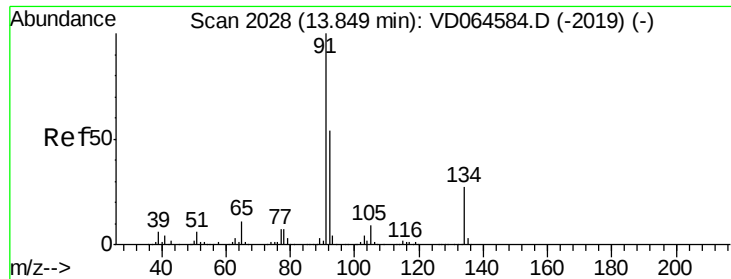
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 1/14/2020 1:28:22 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.254 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.1	54.1
148	64.8	32.3	96.9





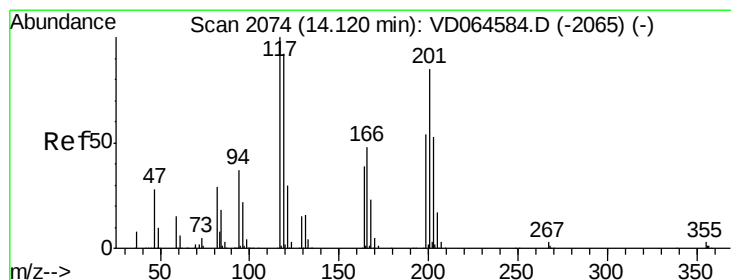
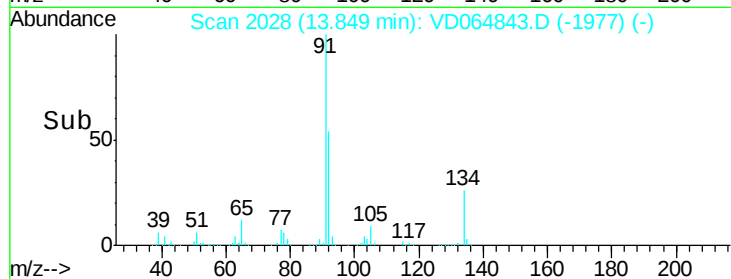
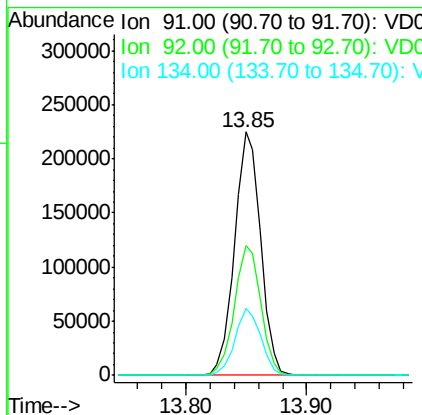
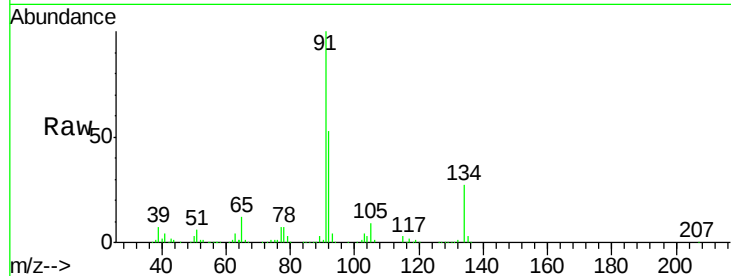
#89
n-Butylbenzene
Concen: 21.270 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.8	80.4
134	27.3	14.0	41.9

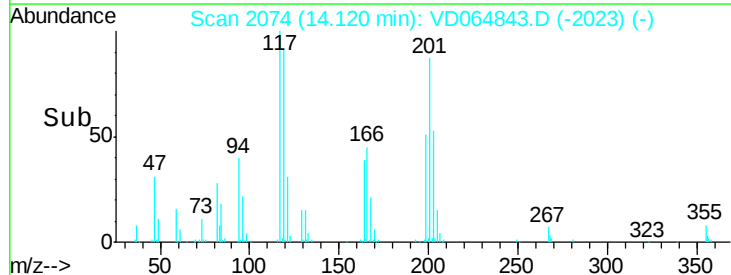
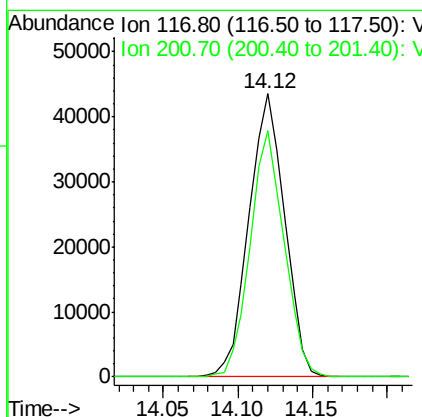
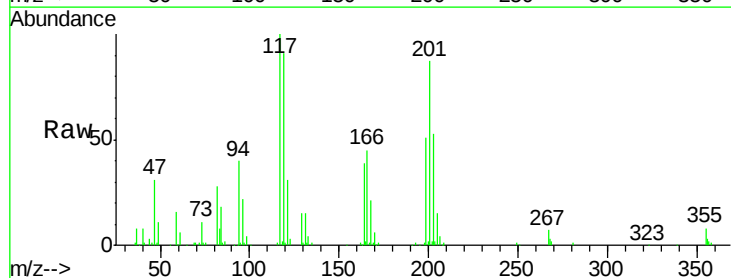
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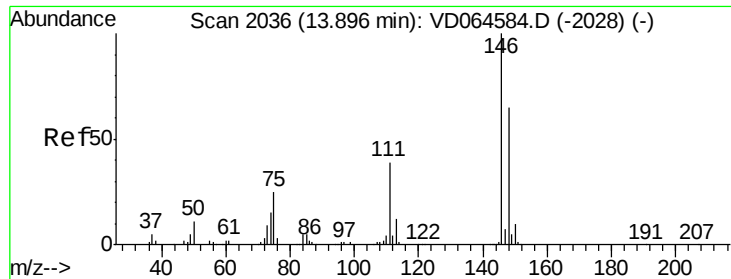
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1/14/2020 1:28:22 PM



#90
Hexachloroethane
Concen: 21.472 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.4	44.0	131.8





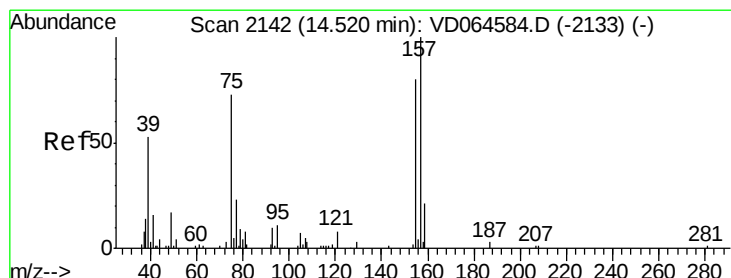
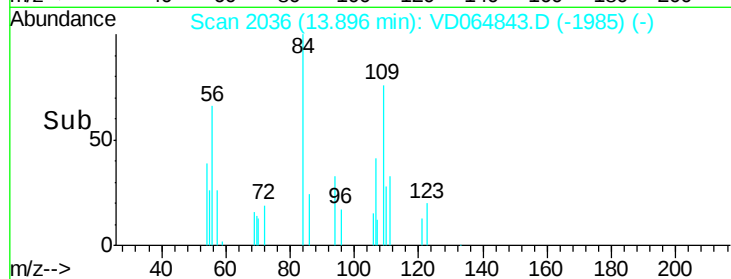
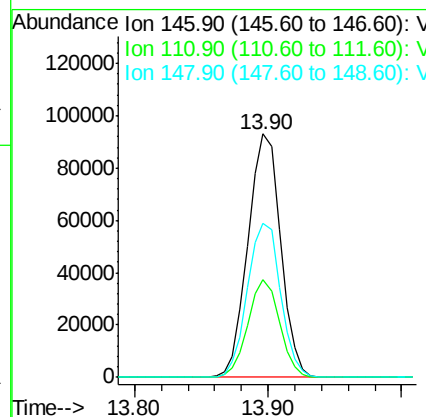
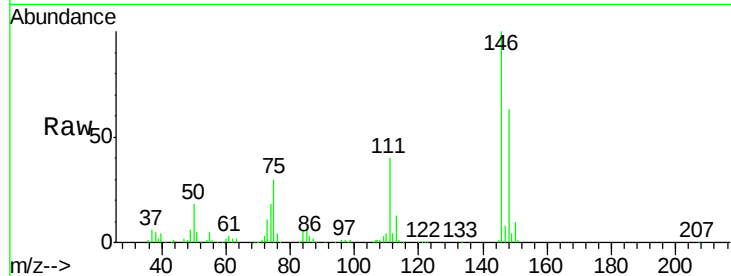
#91
 1,2-Dichlorobenzene
 Concen: 20.910 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.3	57.9
148	64.3	31.9	95.5

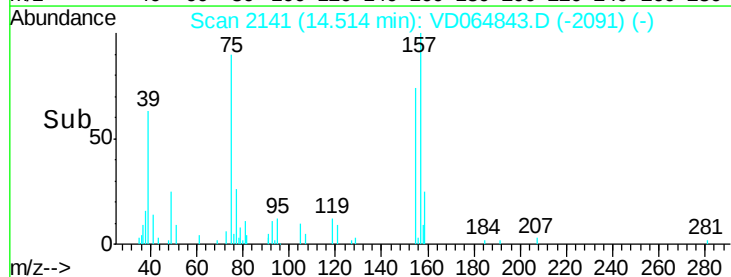
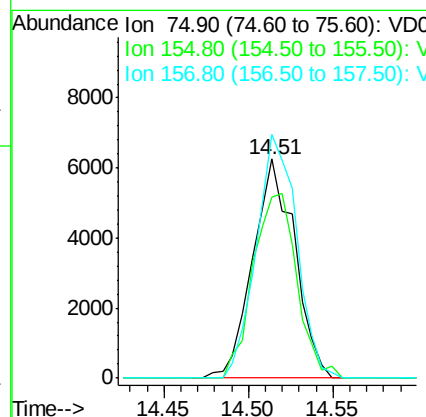
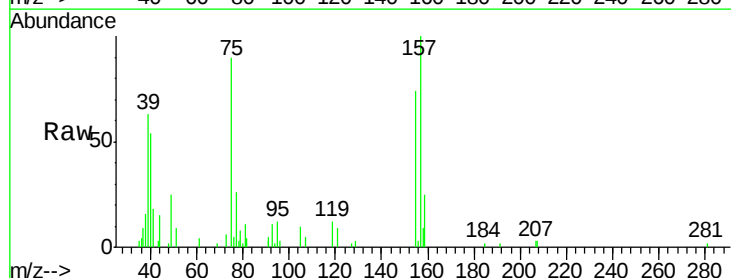
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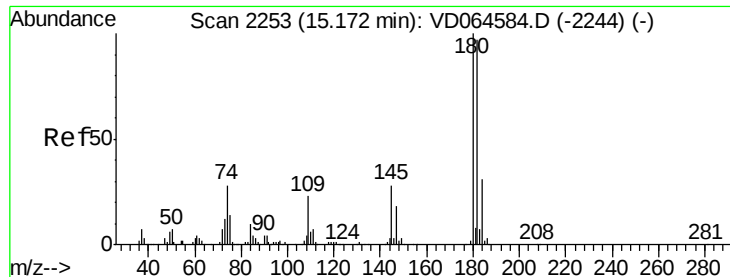
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.546 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.9	48.0	144.0
157	106.7	64.1	192.3





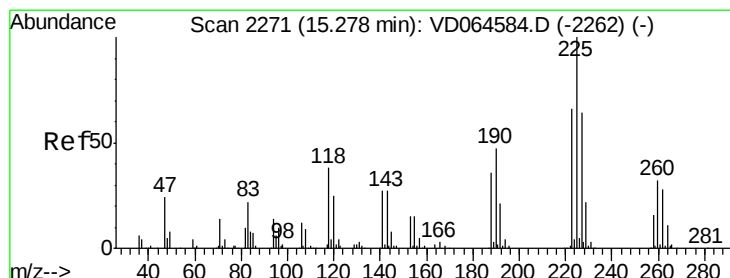
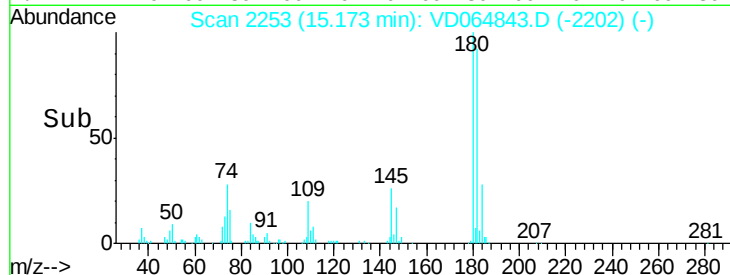
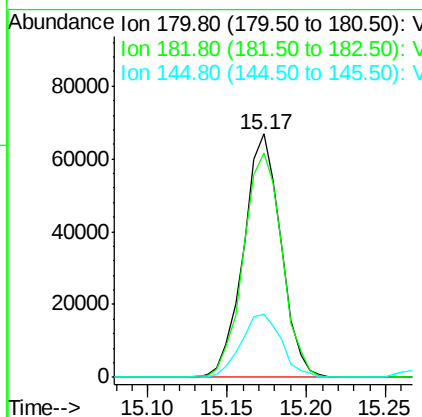
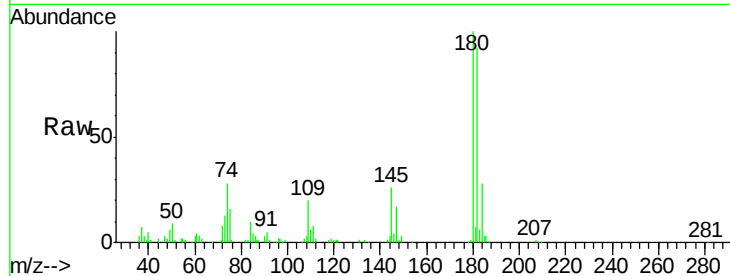
#93
 1,2,4-Trichlorobenzene
 Concen: 19.799 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	109623		
182	95.4	48.0	144.2	
145	28.1	13.8	41.4	

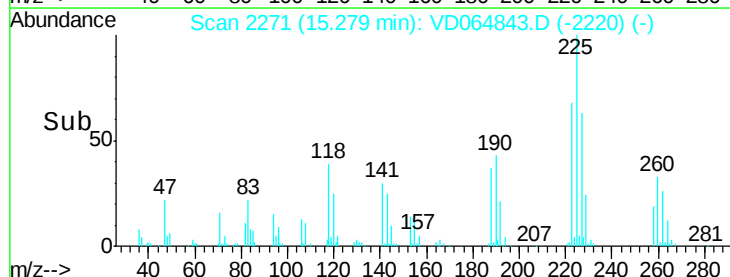
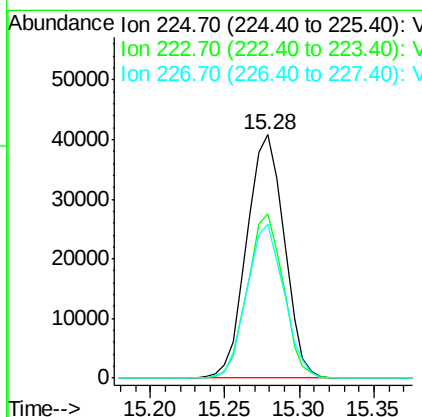
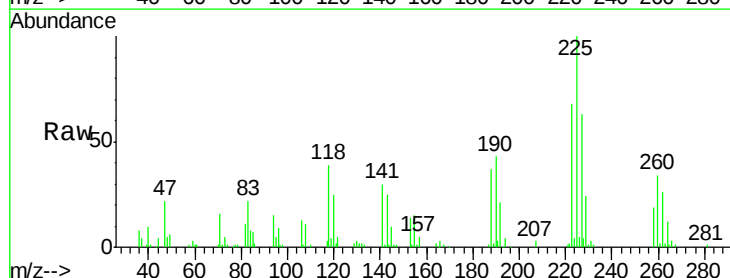
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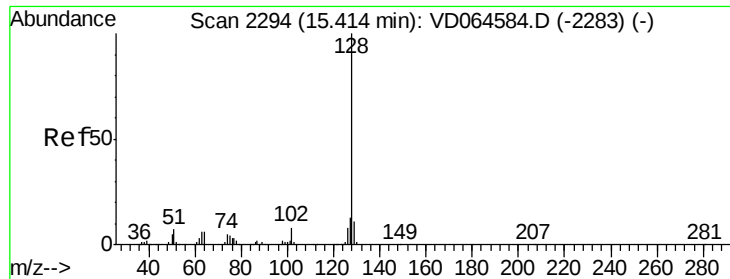
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 1/14/2020 1:28:22 PM



#94
 Hexachlorobutadiene
 Concen: 20.366 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064843.D
 Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	70958		
223	64.6	31.1	93.2	
227	62.6	30.9	92.7	





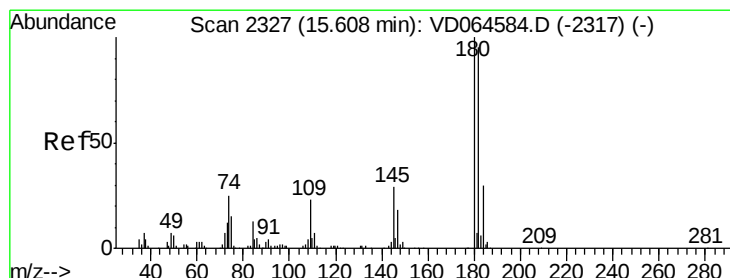
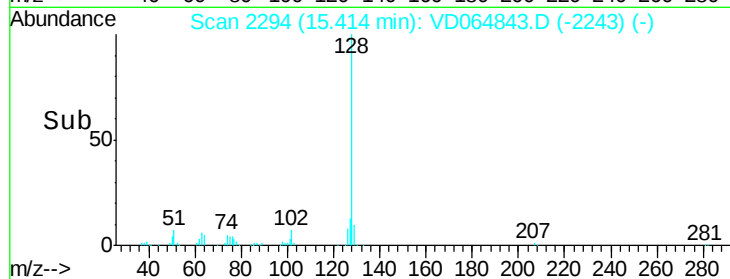
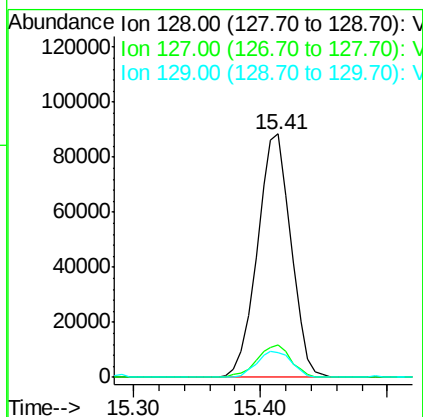
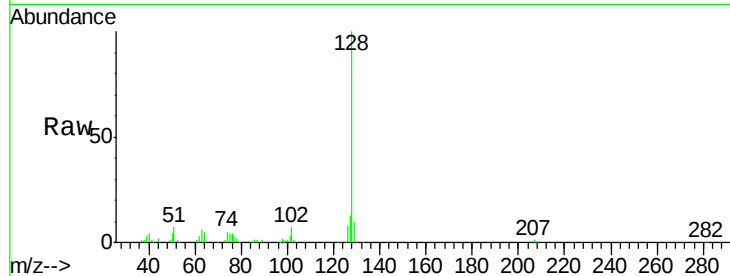
#95
Naphthalene
Concen: 18.611 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD0113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	163019		
127	13.4	10.3	15.5	
129	11.2	8.5	12.7	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 19.912 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD064843.D
Acq: 13 Jan 2020 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	94117		
182	94.9	47.9	143.7	
145	29.2	14.9	44.7	

