

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020520\
 Data File : VD065062.D
 Acq On : 05 Feb 2020 12:59
 Operator : VA/SY
 Sample : VSTDIC020
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 2/6/2020 10:37:11 AM

Quant Time: Feb 05 15:33:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:24:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	616146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	913368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	814114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	382860	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	101316	17.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.98%	
35) Dibromofluoromethane	7.92	113	100198	17.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.56%	
50) Toluene-d8	10.34	98	384821	17.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.28%	
62) 4-Bromofluorobenzene	12.64	95	122940	18.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	105490	22.230	ug/l	94
3) Chloromethane	2.21	50	129584	19.398	ug/l	96
4) Vinyl Chloride	2.35	62	131198	17.231	ug/l	99
5) Bromomethane	2.76	94	80731	15.841	ug/l	97
6) Chloroethane	2.92	64	84368	16.951	ug/l	94
7) Trichlorofluoromethane	3.27	101	191874	16.439	ug/l	98
8) Diethyl Ether	3.70	74	55065	20.280	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.09	101	119667	21.134	ug/l	100
10) Methyl Iodide	4.30	142	133053	22.056	ug/l	99
11) Tert butyl alcohol	5.26	59	33997	107.143	ug/l	97
12) 1,1-Dichloroethene	4.06	96	112626	20.852	ug/l	93
13) Acrolein	3.92	56	40772	100.605	ug/l	98
14) Allyl chloride	4.71	41	187344	21.644	ug/l	100
15) Acrylonitrile	5.43	53	122392	104.138	ug/l	99
16) Acetone	4.17	43	132879	106.874	ug/l	98
17) Carbon Disulfide	4.40	76	364370	20.565	ug/l	99
18) Methyl Acetate	4.73	43	59398	21.618	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	250529	20.971	ug/l	96
20) Methylene Chloride	4.96	84	128991	18.800	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	131146	21.215	ug/l	93
22) Diisopropyl ether	6.37	45	354286	20.773	ug/l	99
23) Vinyl Acetate	6.31	43	969005	98.027	ug/l	100
24) 1,1-Dichloroethane	6.27	63	219487	20.977	ug/l	99
25) 2-Butanone	7.23	43	155317	98.838	ug/l	97
26) 2,2-Dichloropropane	7.21	77	191043	20.009	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	136771	20.673	ug/l	98
28) Bromochloromethane	7.55	49	73476	18.161	ug/l	99
29) Tetrahydrofuran	7.57	42	101245	104.001	ug/l	97
30) Chloroform	7.71	83	213996	19.861	ug/l	97
31) Cyclohexane	7.98	56	214493	20.689	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	198970	19.835	ug/l	100
36) 1,1-Dichloropropene	8.11	75	172646	19.635	ug/l	99
37) Ethyl Acetate	7.30	43	74058	20.466	ug/l	98
38) Carbon Tetrachloride	8.10	117	179310	19.433	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	216374	20.871	ug/l	98
40) Benzene	8.36	78	482778	19.954	ug/l	98
41) Methacrylonitrile	7.53	41	38132	20.018	ug/l	98
42) 1,2-Dichloroethane	8.43	62	139060	19.443	ug/l	98
43) Isopropyl Acetate	8.46	43	136308	19.837	ug/l	100
44) Trichloroethene	9.11	130	139210	20.426	ug/l	98
45) 1,2-Dichloropropane	9.39	63	115947	19.720	ug/l	99
46) Dibromomethane	9.48	93	60464	18.985	ug/l	97
47) Bromodichloromethane	9.67	83	164461	19.836	ug/l	97
48) Methyl methacrylate	9.46	41	65629	20.756	ug/l	99
49) 1,4-Dioxane	9.47	88	13934	380.707	ug/l	93
51) 4-Methyl-2-Pentanone	10.24	43	342821	100.331	ug/l	100
52) Toluene	10.41	92	307514	19.694	ug/l	97
53) t-1,3-Dichloropropene	10.63	75	156587	19.818	ug/l	99
54) cis-1,3-Dichloropropene	10.10	75	188102	20.250	ug/l	98
55) 1,1,2-Trichloroethane	10.81	97	83998	19.599	ug/l	94
56) Ethyl methacrylate	10.67	69	104404	20.301	ug/l	98
57) 1,3-Dichloropropane	10.96	76	149723	20.329	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.95	63	164021	91.564	ug/l	100
59) 2-Hexanone	10.99	43	238489	100.843	ug/l	98
60) Dibromochloromethane	11.15	129	109815	19.230	ug/l	100
61) 1,2-Dibromoethane	11.25	107	83233	20.123	ug/l	99
64) Tetrachloroethene	10.88	164	125121	21.192	ug/l	96
65) Chlorobenzene	11.68	112	324728	19.599	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.75	131	118301	19.071	ug/l	99
67) Ethyl Benzene	11.75	91	580102	19.752	ug/l	99
68) m/p-Xylenes	11.86	106	446509	39.501	ug/l	100
69) o-Xylene	12.18	106	201081	19.996	ug/l	99
70) Styrene	12.20	104	349211	19.627	ug/l	99
71) Bromoform	12.37	173	64967	19.035	ug/l #	99
73) Isopropylbenzene	12.48	105	555758	21.192	ug/l	99
74) N-amyl acetate	12.30	43	119837	20.542	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.74	83	83977	19.251	ug/l	94
76) 1,2,3-Trichloropropane	12.79	75	63558m	20.528	ug/l	
77) Bromobenzene	12.77	156	133859	20.922	ug/l	98
78) n-propylbenzene	12.83	91	649581	20.847	ug/l	99
79) 2-Chlorotoluene	12.91	91	363119	21.205	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	451742	21.028	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	29117	19.613	ug/l	97
82) 4-Chlorotoluene	13.01	91	378330	20.852	ug/l	100
83) tert-Butylbenzene	13.23	119	388272	21.323	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	445005	20.510	ug/l	100
85) sec-Butylbenzene	13.41	105	534061	20.652	ug/l	100
86) p-Isopropyltoluene	13.53	119	491865	20.420	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	243327	19.867	ug/l	99
88) 1,4-Dichlorobenzene	13.61	146	245925	20.234	ug/l	99
89) n-Butylbenzene	13.86	91	460596	20.950	ug/l	100
90) Hexachloroethane	14.13	117	93601	20.197	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	209741	20.185	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	13967	19.881	ug/l	98

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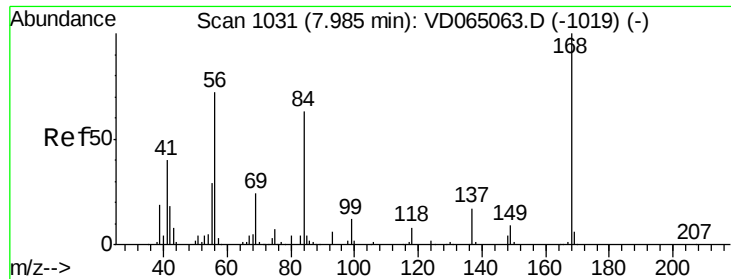
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	154918	21.409	ug/l	99
94) Hexachlorobutadiene	15.28	225	96240	21.026	ug/l	98
95) Naphthalene	15.41	128	250668	21.554	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	130848	21.036	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 616146

Ion Ratio Lower Upper

168 100

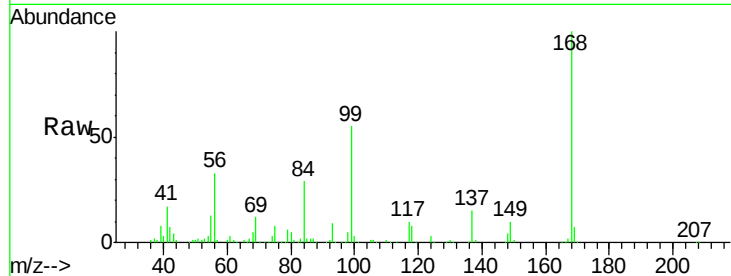
99 55.2 41.0 61.6

Manual Integrations

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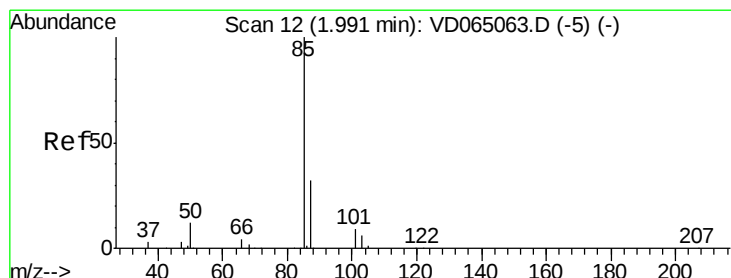
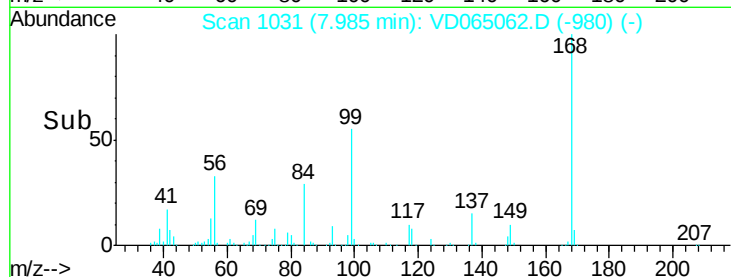
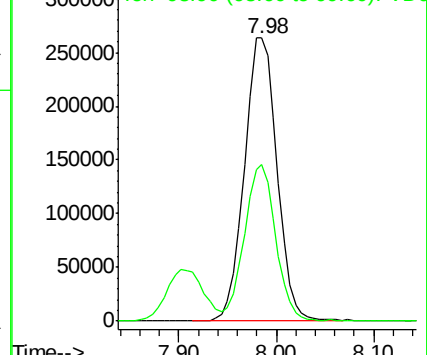
MMDadoda

2/6/2020 10:37:11 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 22.230 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065062.D

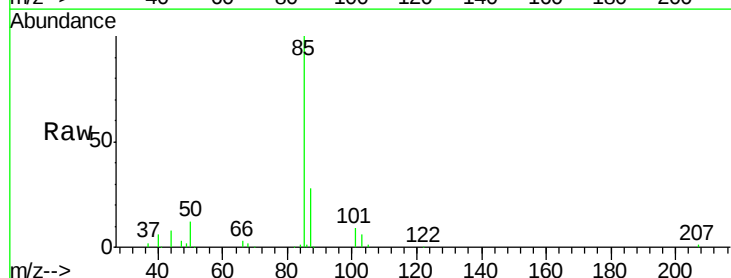
Acq: 05 Feb 2020 12:59

Tgt Ion: 85 Resp: 105490

Ion Ratio Lower Upper

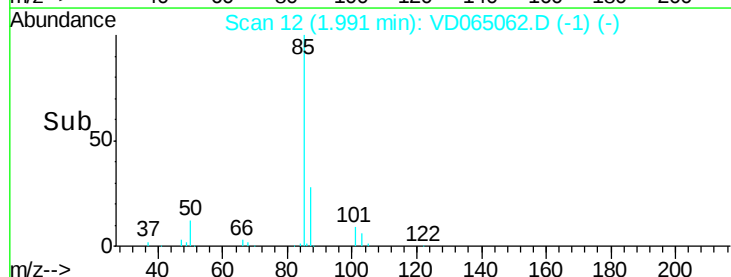
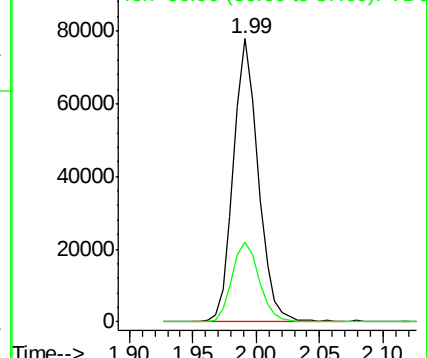
85 100

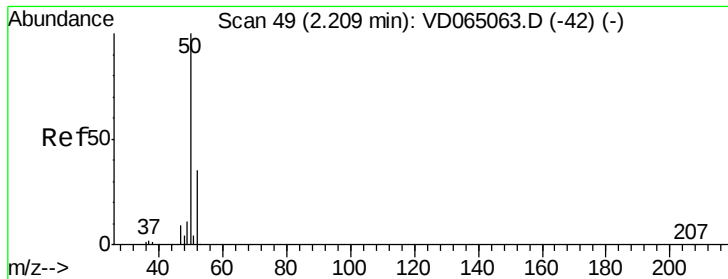
87 28.0 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.398 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 129584

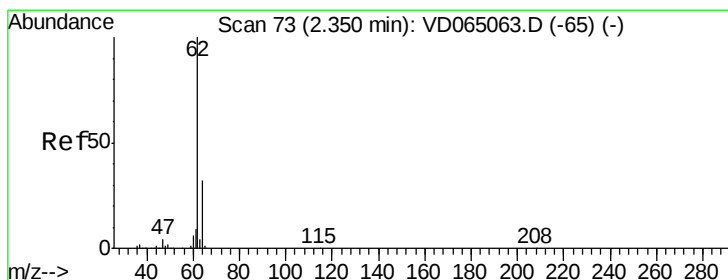
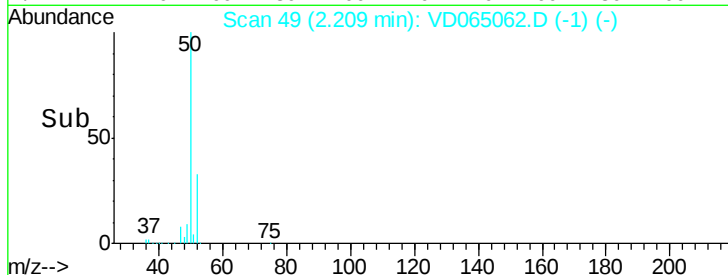
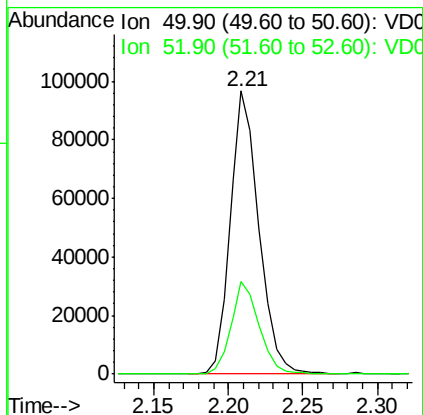
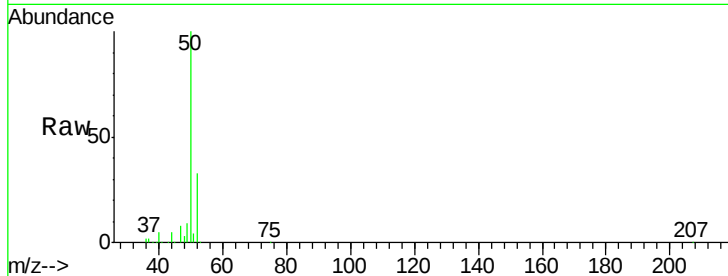
Ion Ratio Lower Upper

50 100

52 32.6 27.8 41.6

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#4

Vinyl Chloride

Concen: 17.231 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065062.D

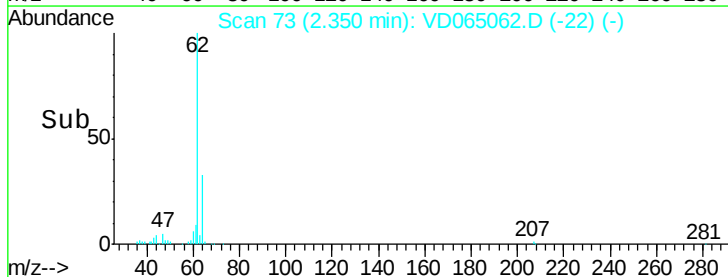
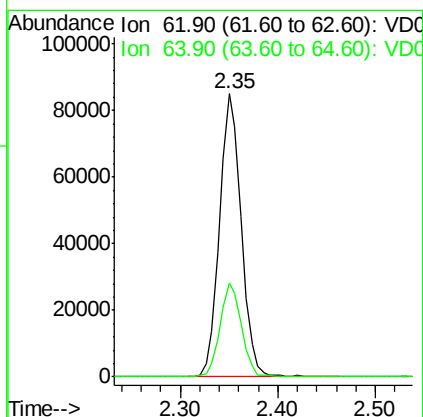
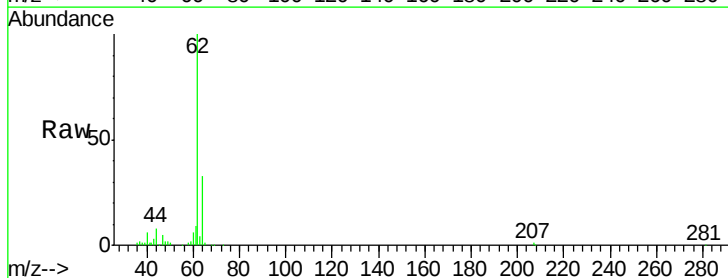
Acq: 05 Feb 2020 12:59

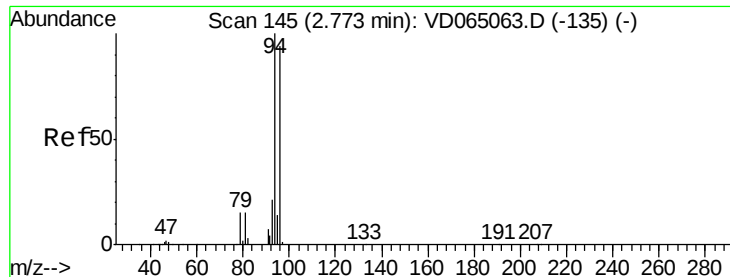
Tgt Ion: 62 Resp: 131198

Ion Ratio Lower Upper

62 100

64 33.1 25.9 38.9





#5

Bromomethane

Concen: 15.841 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.02 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 80731

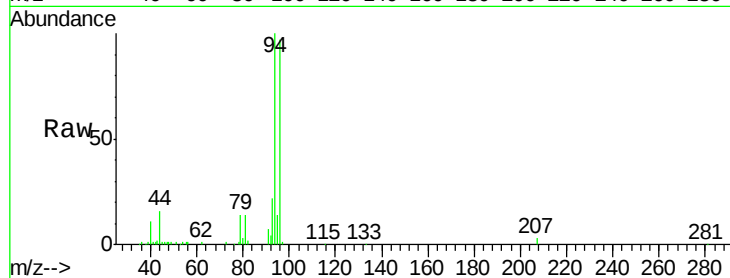
Ion Ratio Lower Upper

94 100

96 96.9 75.4 113.0

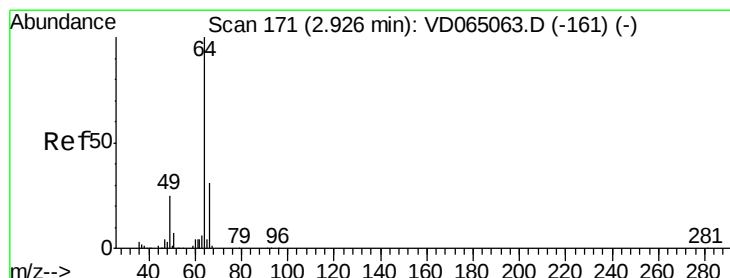
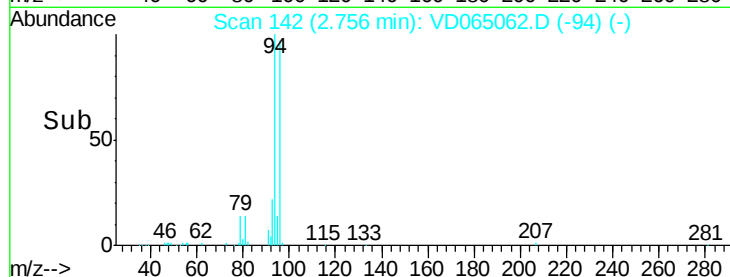
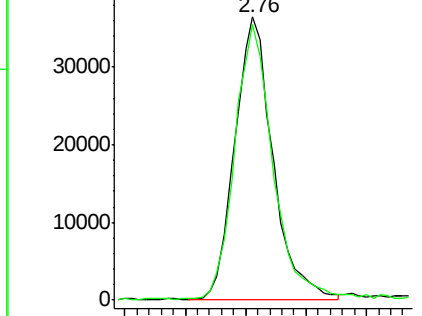
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 16.951 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065062.D

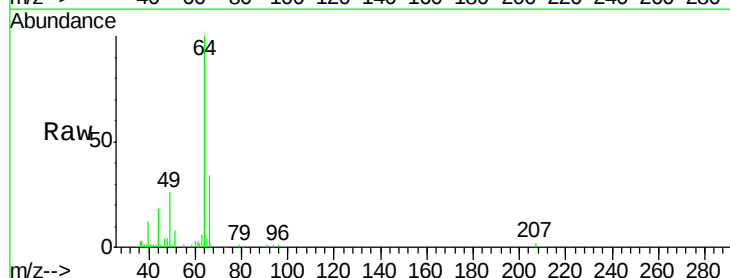
Acq: 05 Feb 2020 12:59

Tgt Ion: 64 Resp: 84368

Ion Ratio Lower Upper

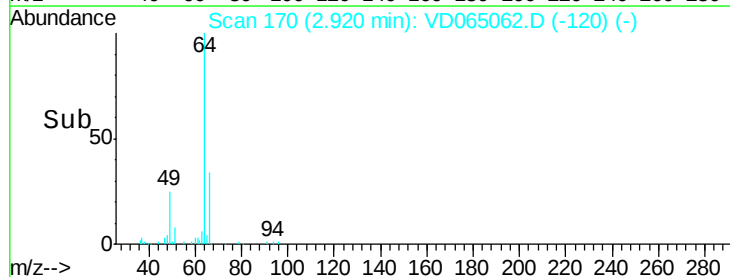
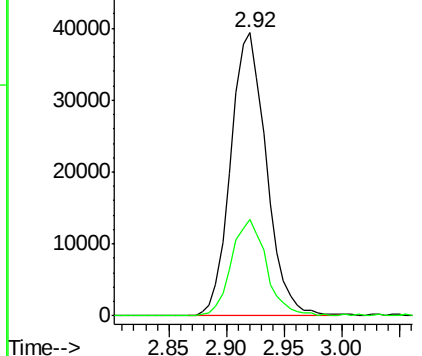
64 100

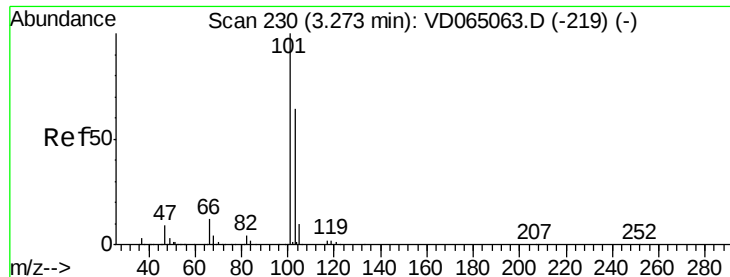
66 34.3 24.8 37.2



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

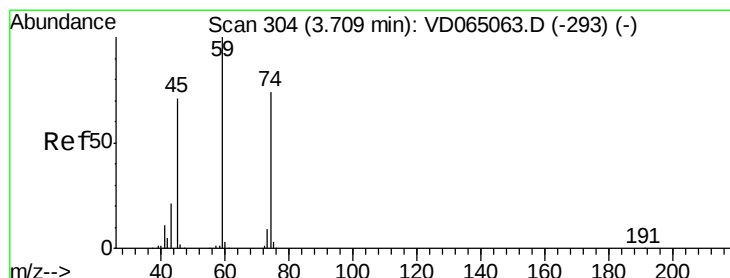
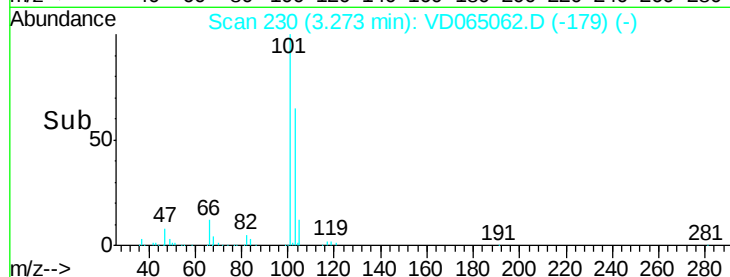
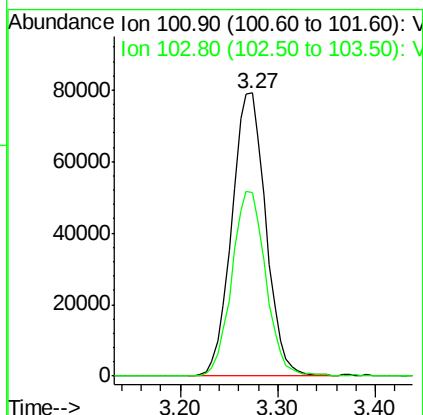
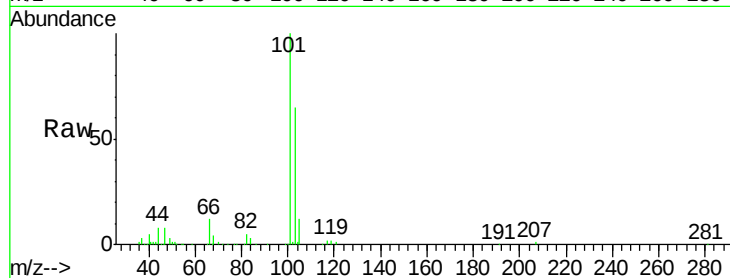
Trichlorofluoromethane
 Concen: 16.439 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.0	76.6

Manual Integrations
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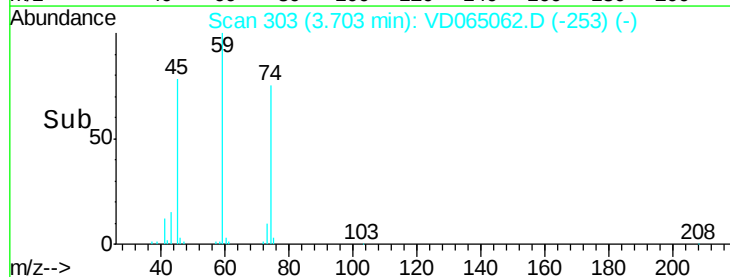
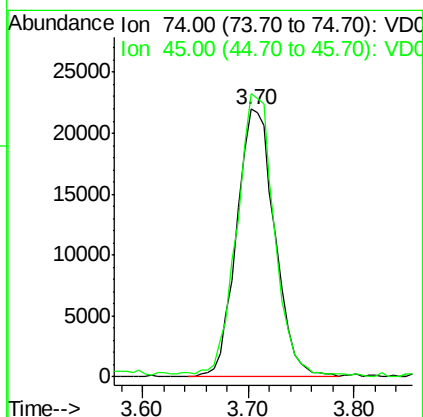
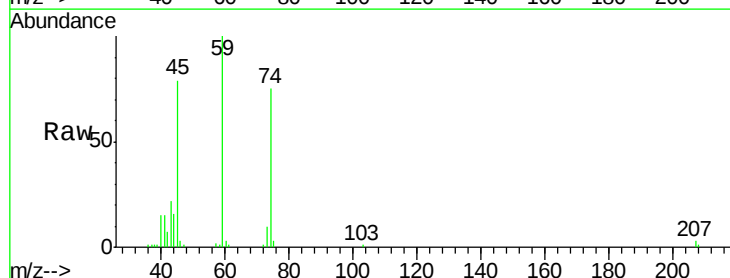
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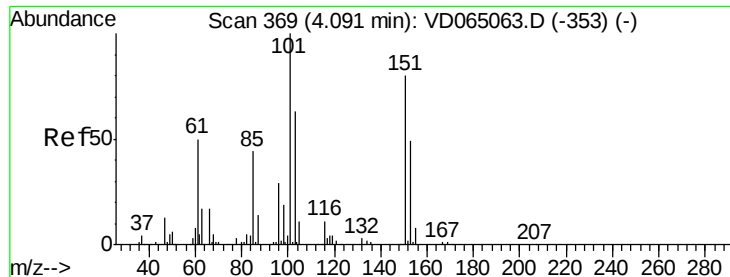


#8

Diethyl Ether
 Concen: 20.280 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.7	49.0	147.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.134 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

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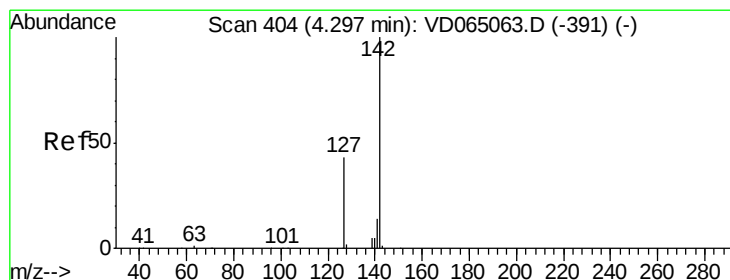
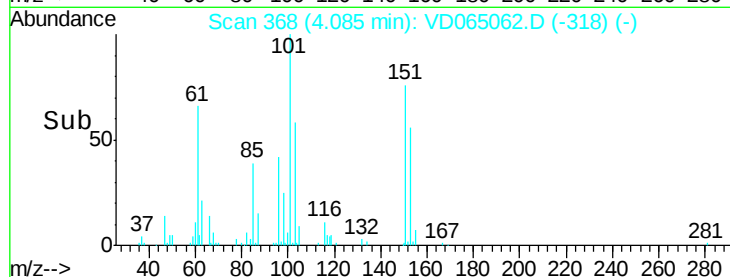
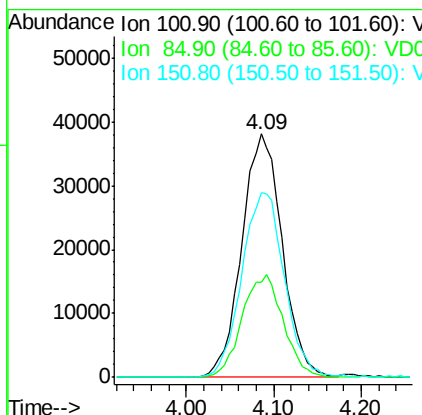
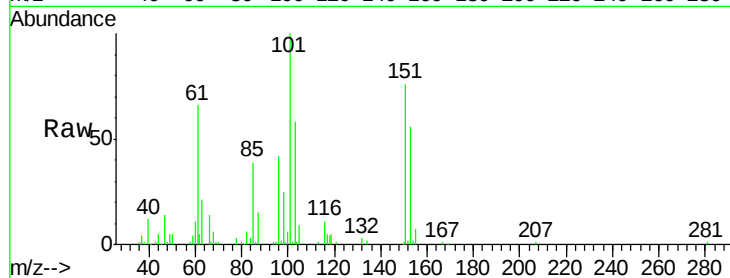
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	119667
Ion Ratio	Lower	Upper	
101	100		
85	42.9	34.0	51.0
151	80.3	64.0	96.0

Manual Integrations
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#10

Methyl Iodide

Concen: 22.056 ug/l

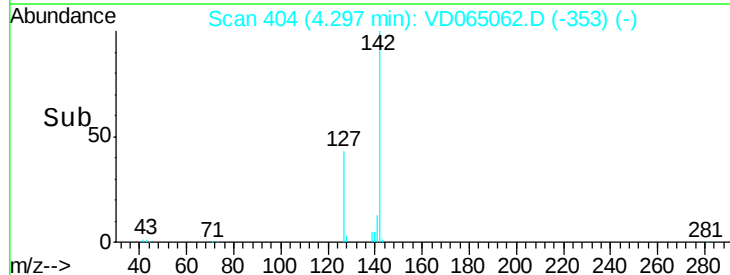
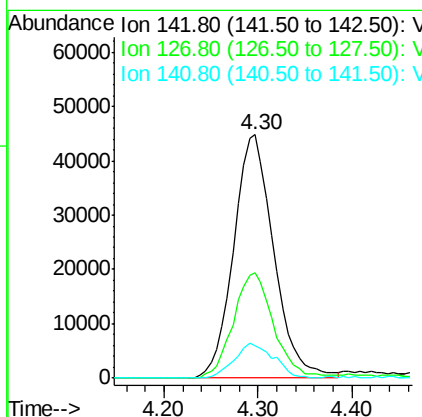
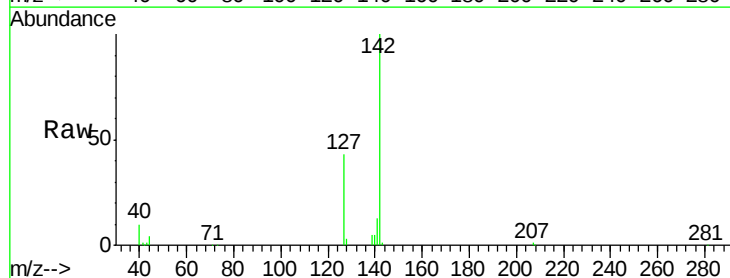
RT: 4.30 min Scan# 404

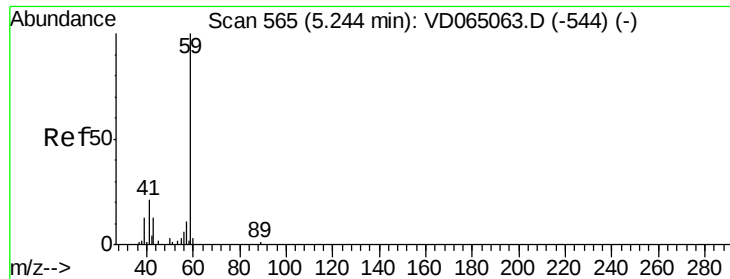
Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion:	142	Resp:	133053
Ion Ratio	Lower	Upper	
142	100		
127	43.1	34.0	51.0
141	14.0	11.6	17.4





#11

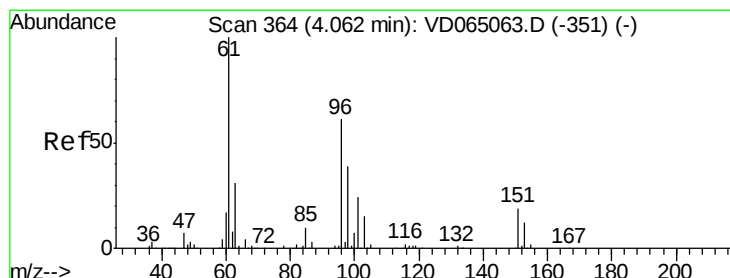
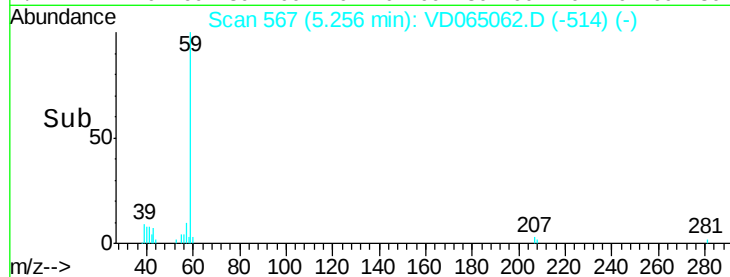
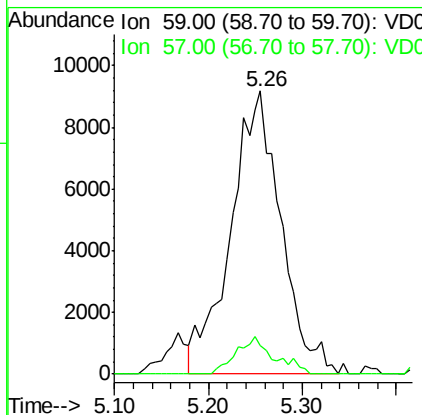
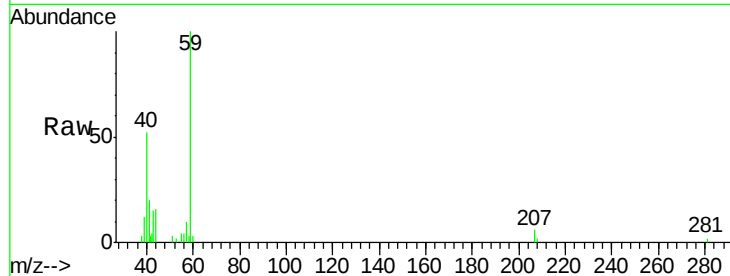
Tert butyl alcohol
 Concen: 107.143 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.8	13.2

Manual Integrations
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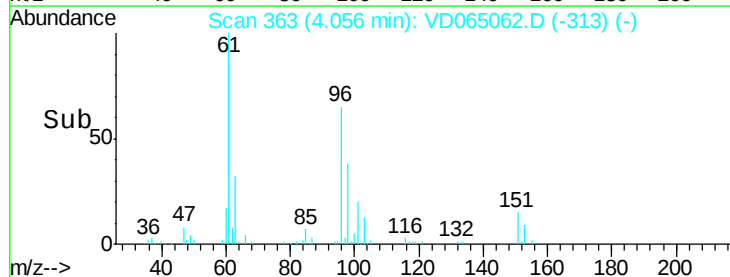
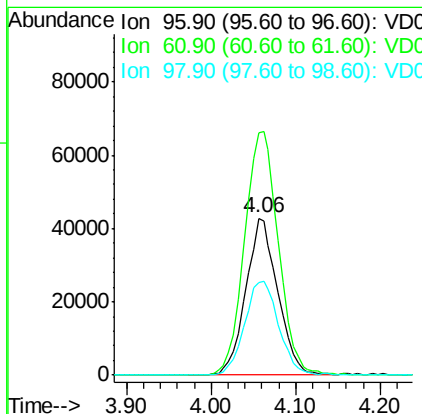
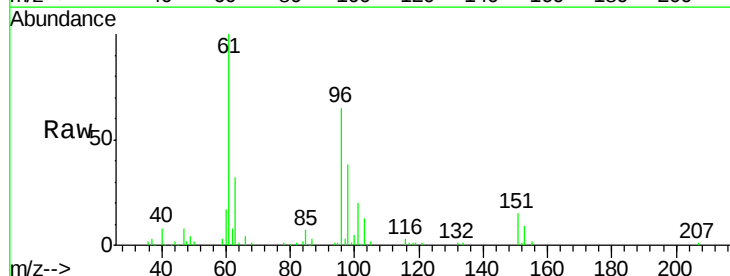
MMDadoda
 2/6/2020 10:37:11 AM

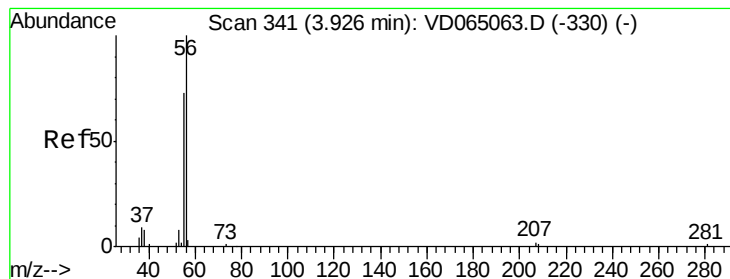


#12

1,1-Dichloroethene
 Concen: 20.852 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.6	131.4	197.2
98	59.3	51.1	76.7





#13

Acrolein

Concen: 100.605 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 40772

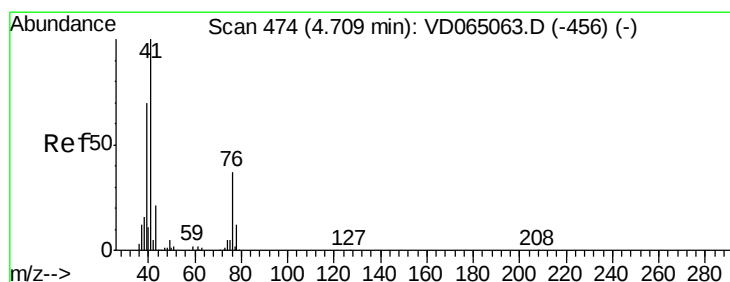
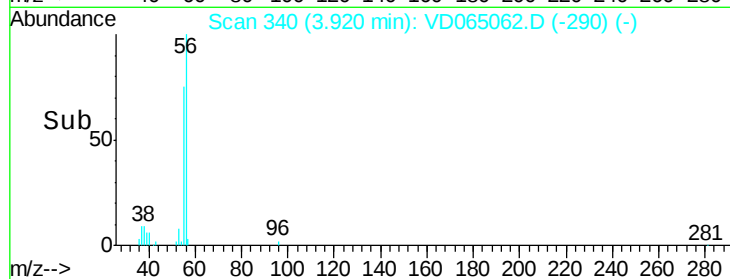
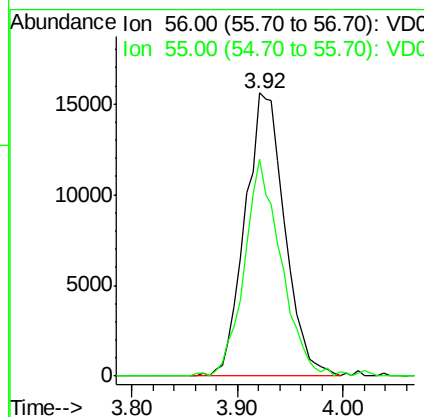
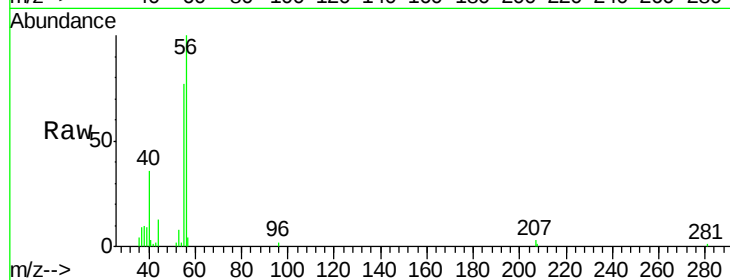
Ion Ratio Lower Upper

56 100

55 71.0 58.2 87.2

Manual Integrations
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MMDadoda
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#14

Allyl chloride

Concen: 21.644 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

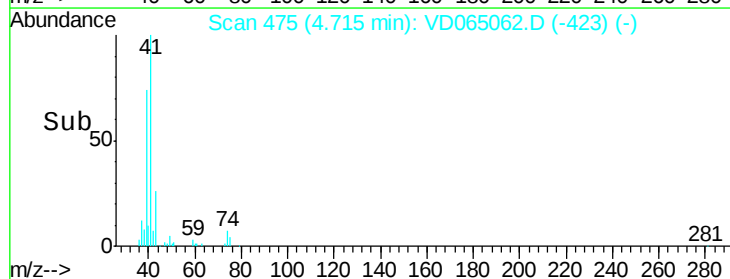
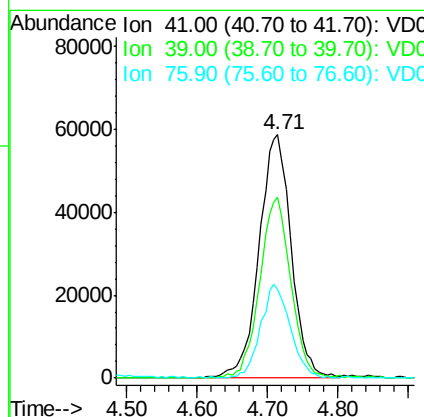
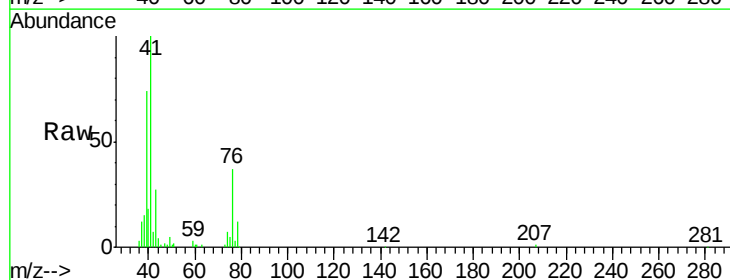
Tgt Ion: 41 Resp: 187344

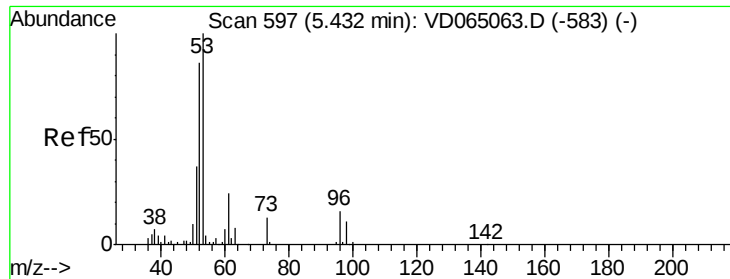
Ion Ratio Lower Upper

41 100

39 71.3 57.1 85.7

76 35.7 28.0 42.0





#15

Acrylonitrile

Concen: 104.138 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

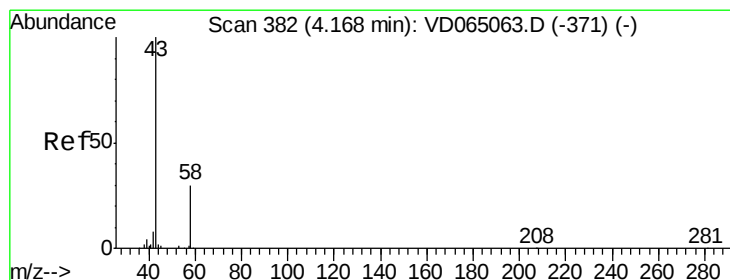
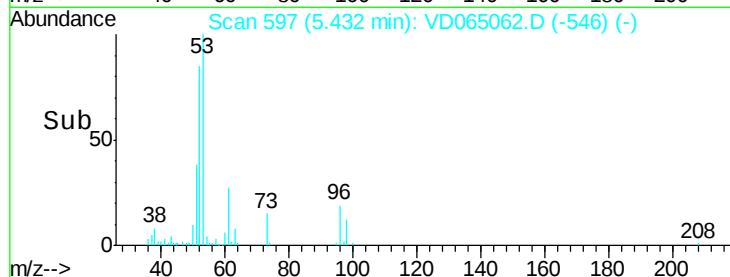
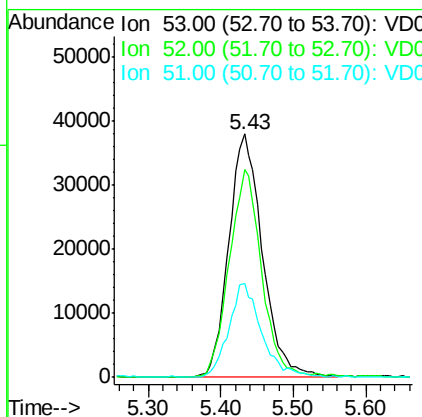
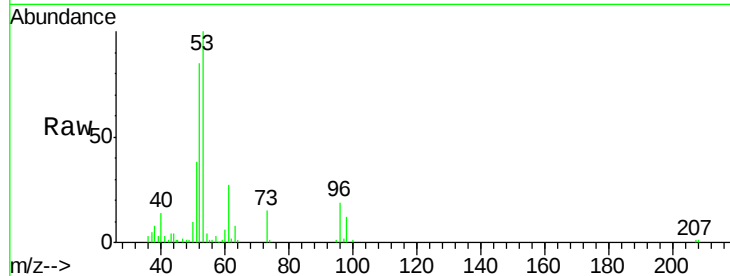
ClientSampleID :

VSTDIC020

Tot Ion:	53	Resp:	122392
Ion Ratio	Lower	Upper	
53	100		
52	81.6	66.2	99.2
51	37.3	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 106.874 ug/l

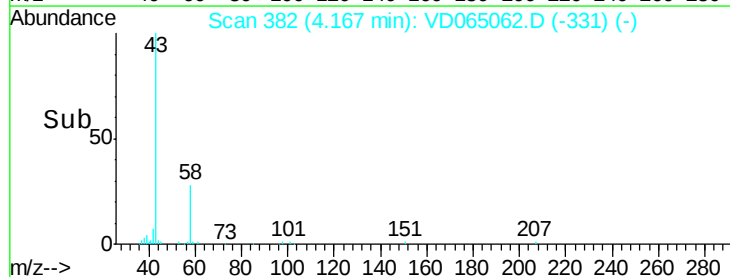
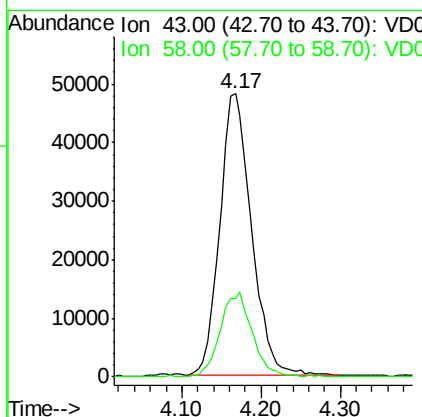
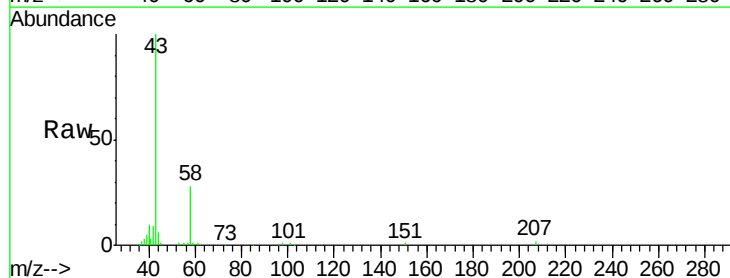
RT: 4.17 min Scan# 382

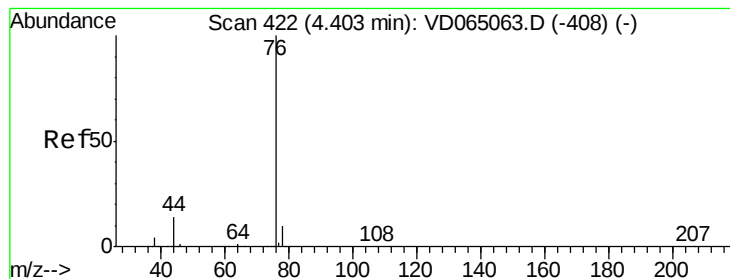
Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion:	43	Resp:	132879
Ion Ratio	Lower	Upper	
43	100		
58	28.1	23.5	35.3





#17

Carbon Disulfide

Concen: 20.565 ug/l

RT: 4.40 min Scan# 421

Delta R.T. -0.01 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 364370

Ion Ratio Lower Upper

76 100

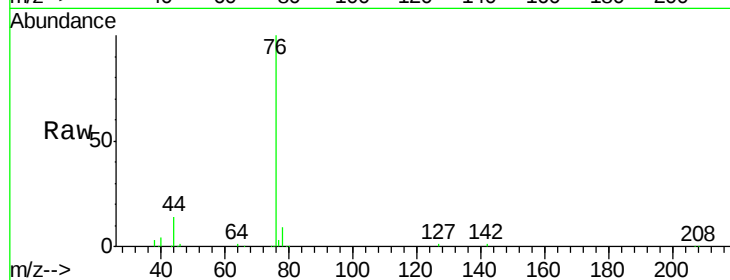
78 9.1 7.6 11.4

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

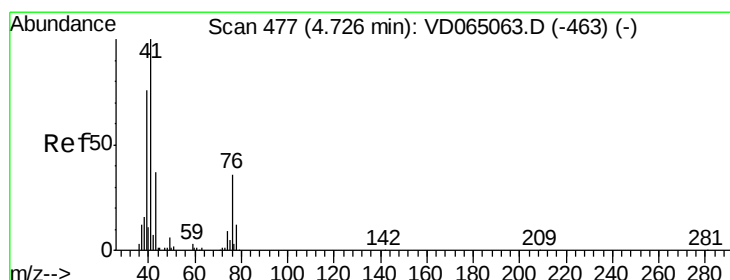
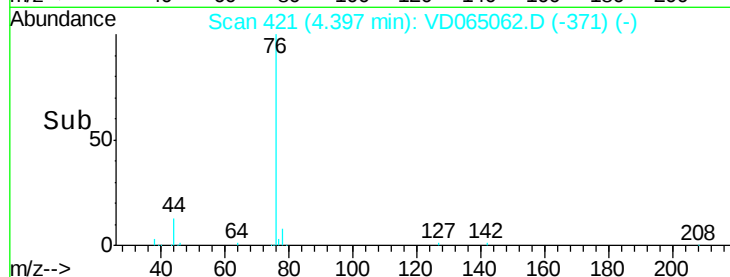
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 21.618 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD065062.D

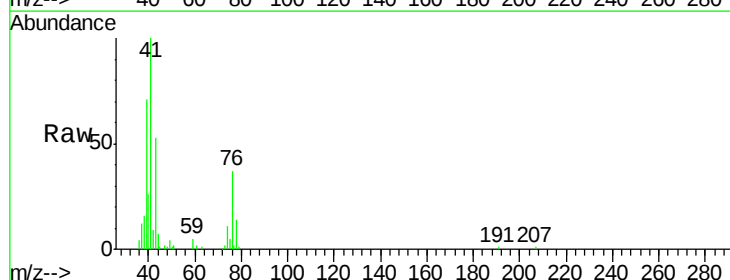
Acq: 05 Feb 2020 12:59

Tgt Ion: 43 Resp: 59398

Ion Ratio Lower Upper

43 100

74 24.1 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.73

20000

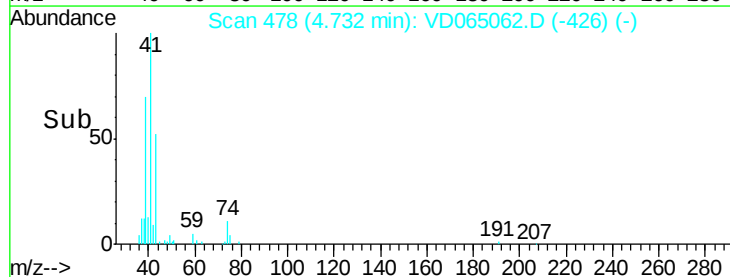
15000

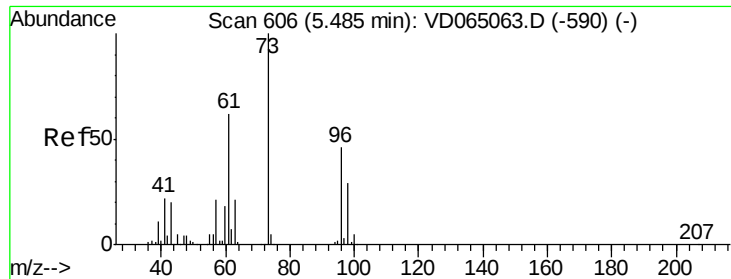
10000

5000

0

Time-->





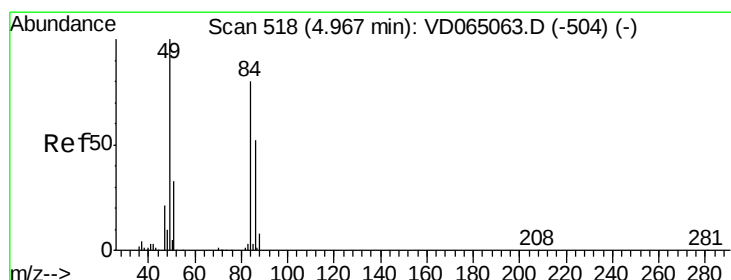
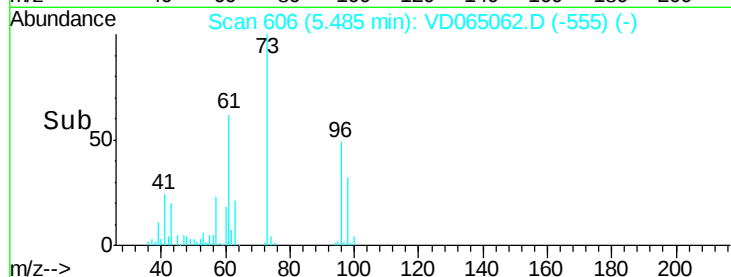
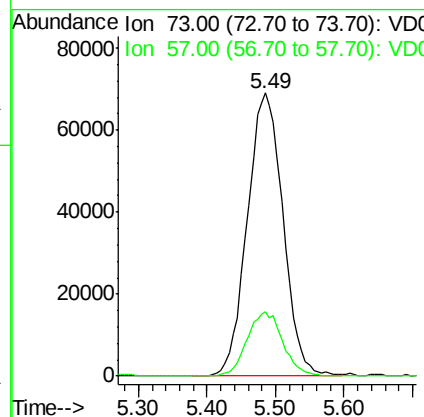
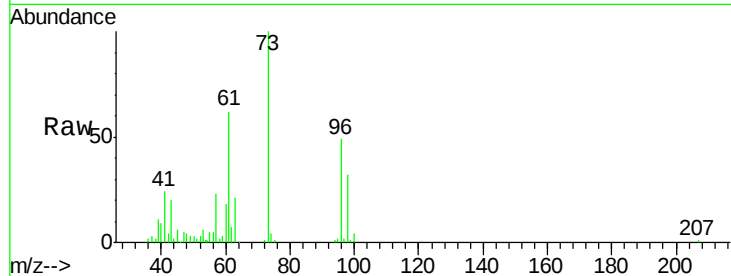
#19
Methyl tert-butyl Ether
Concen: 20.971 ug/l
RT: 5.49 min Scan# 606
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 250529
Ion Ratio Lower Upper
73 100
57 22.8 16.8 25.2

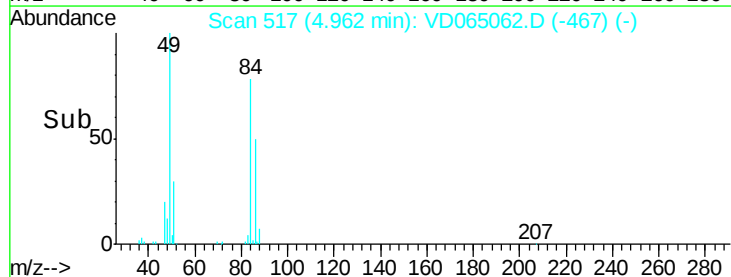
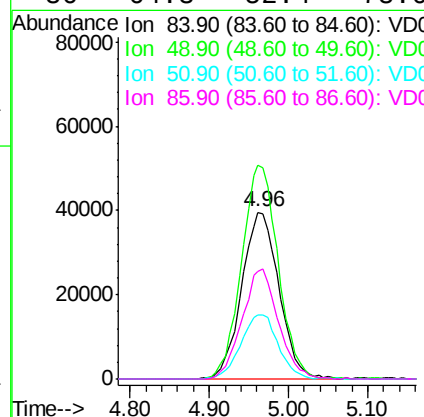
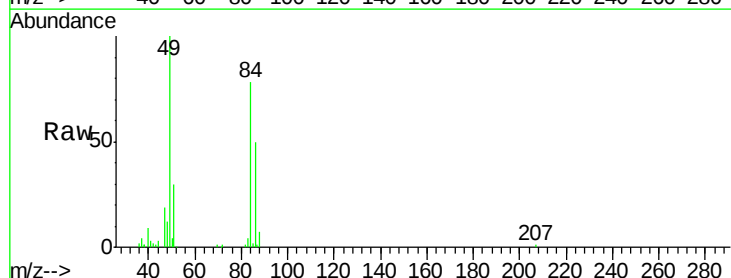
Manual Integrations
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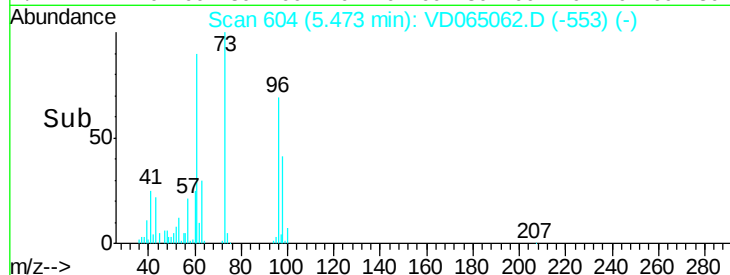
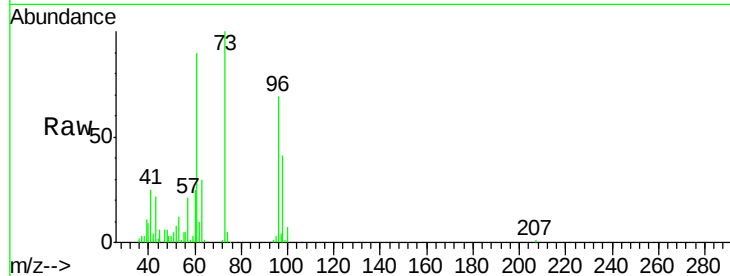
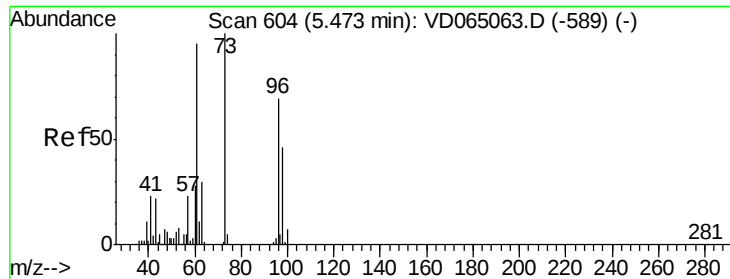
MMDadoda
2/6/2020 10:37:11 AM



#20
Methylene Chloride
Concen: 18.800 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion: 84 Resp: 128991
Ion Ratio Lower Upper
84 100
49 128.3 100.4 150.6
51 38.4 32.7 49.1
86 64.3 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 21.215 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tot Ion:	96	Resp:	131146
Ion	Ratio	Lower	Upper
96	100		
61	130.0	109.5	164.3
98	58.5	53.7	80.5

Instrument :

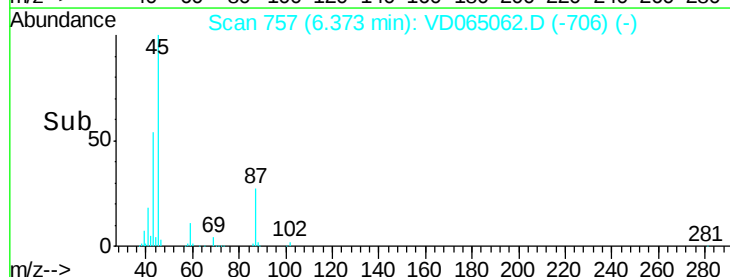
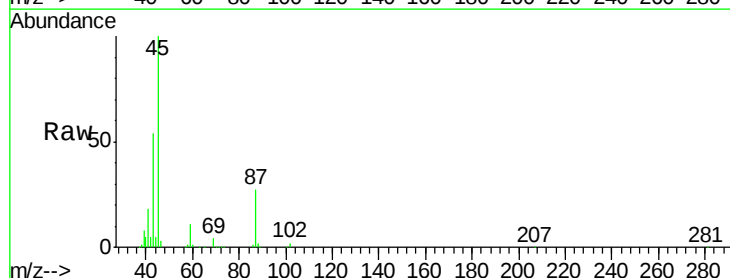
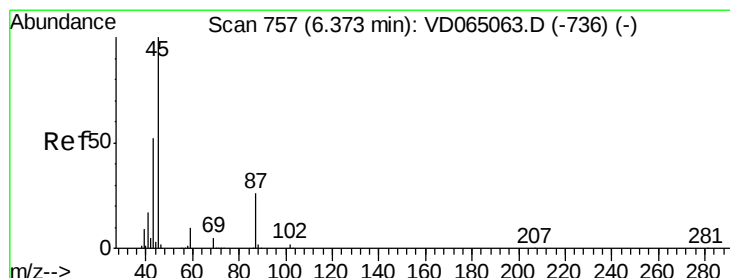
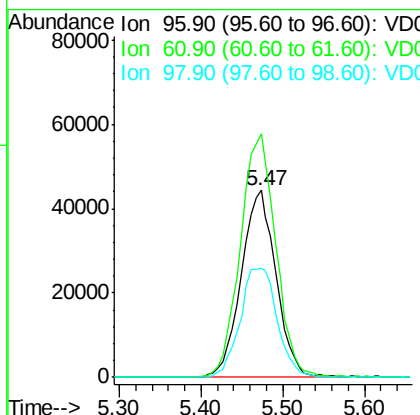
MSVOA_D

ClientSampleId :

VSTDIC020

Manual Integrations
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2/6/2020 10:37:11 AM



#22

Diisopropyl ether

Concen: 20.773 ug/l

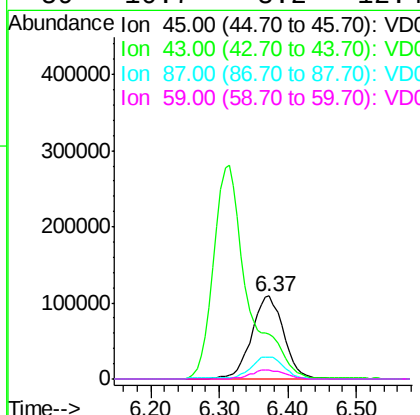
RT: 6.37 min Scan# 757

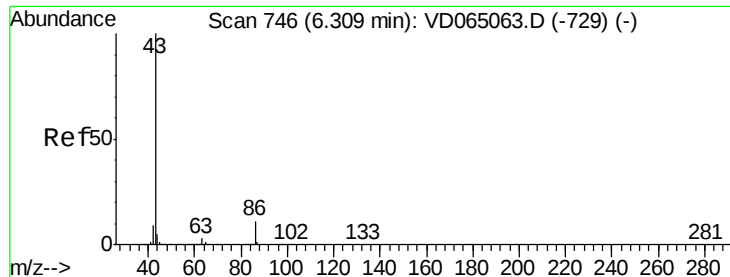
Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion:	45	Resp:	354286
Ion	Ratio	Lower	Upper
45	100		
43	52.8	41.3	61.9
87	26.7	21.0	31.6
59	10.7	8.2	12.4





#23

Vinyl Acetate

Concen: 98.027 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.01 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 969005

Ion Ratio Lower Upper

43 100

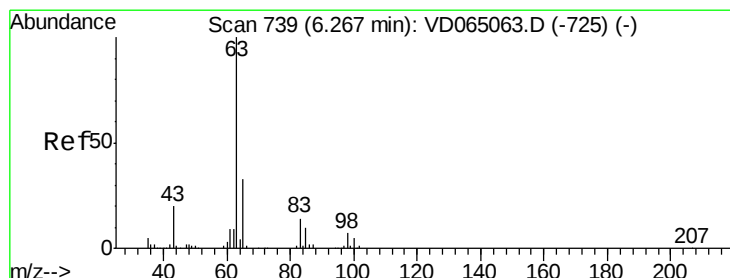
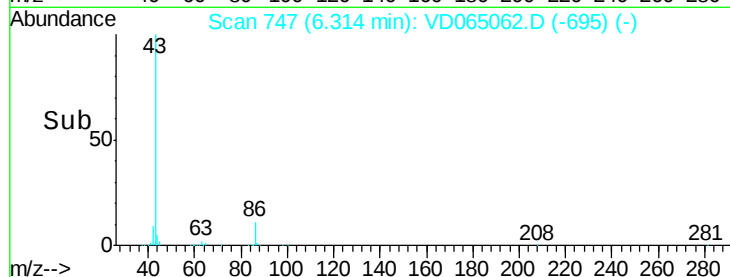
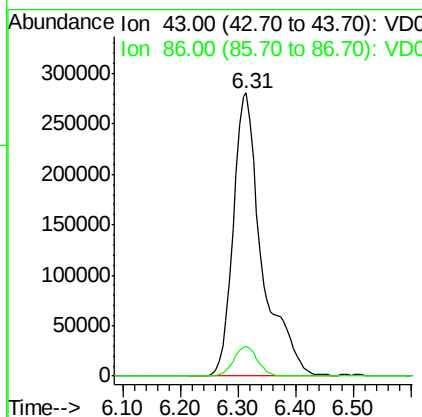
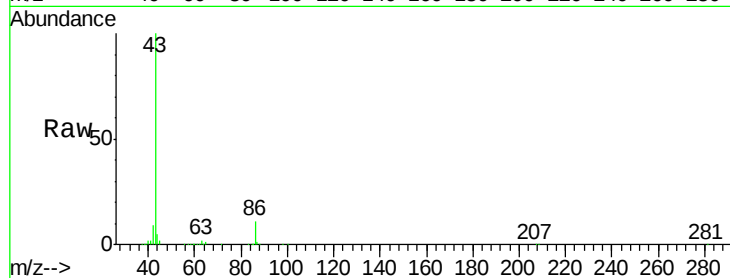
86 10.7 8.5 12.7

Manual Integrations

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MMDadoda

2/6/2020 10:37:11 AM



#24

1,1-Dichloroethane

Concen: 20.977 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

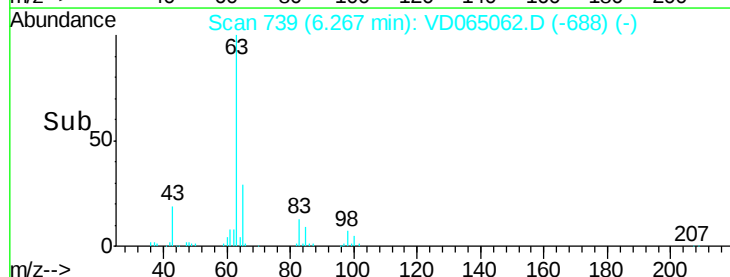
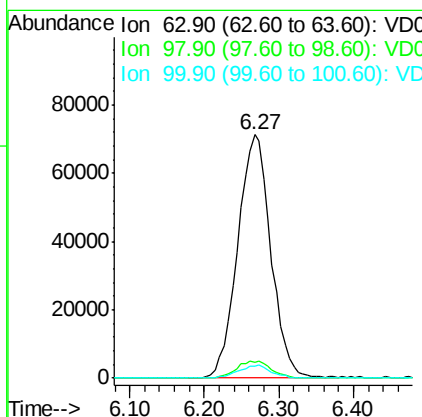
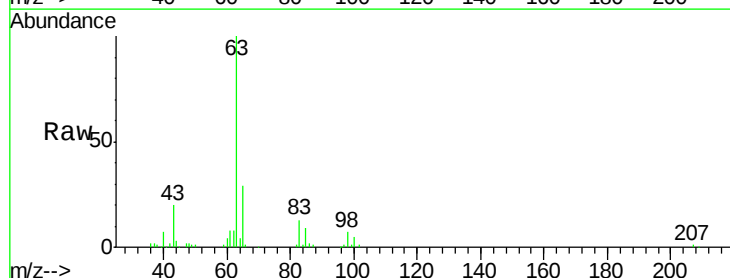
Tgt Ion: 63 Resp: 219487

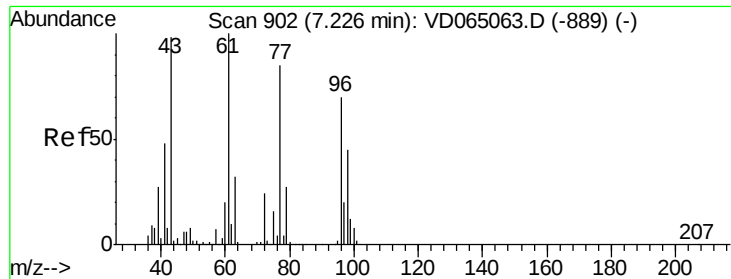
Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.4

100 4.7 2.5 7.6





#25

2-Butanone

Concen: 98.838 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 155317

Ion Ratio Lower Upper

43 100

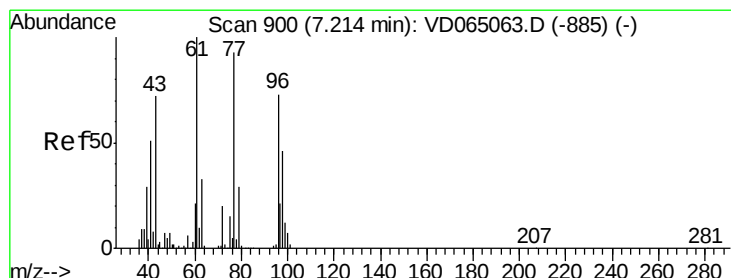
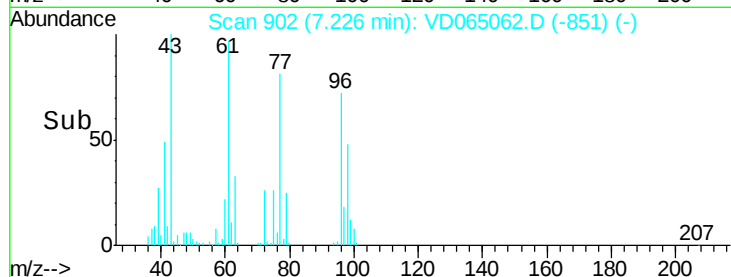
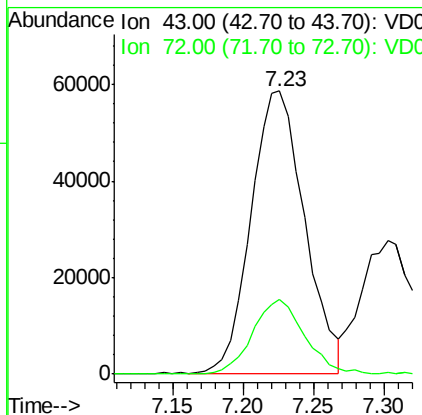
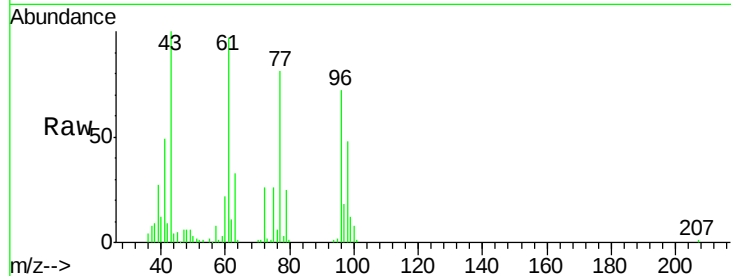
72 26.4 19.9 29.9

Manual Integrations

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MMDadoda

2/6/2020 10:37:11 AM



#26

2,2-Dichloropropane

Concen: 20.009 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065062.D

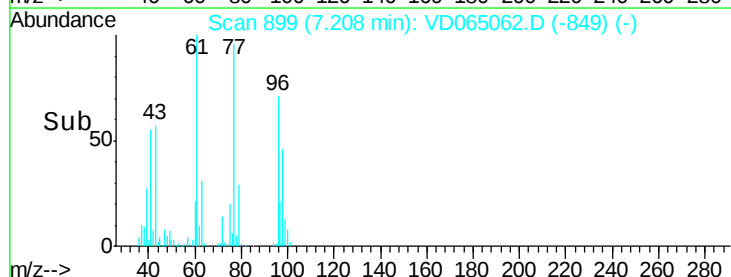
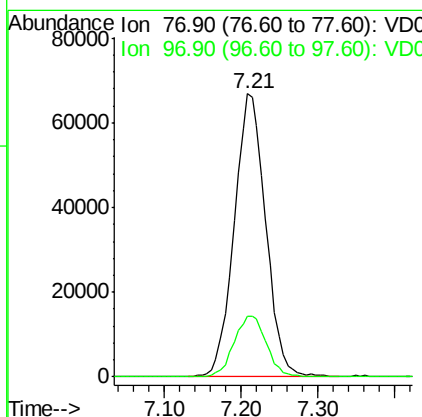
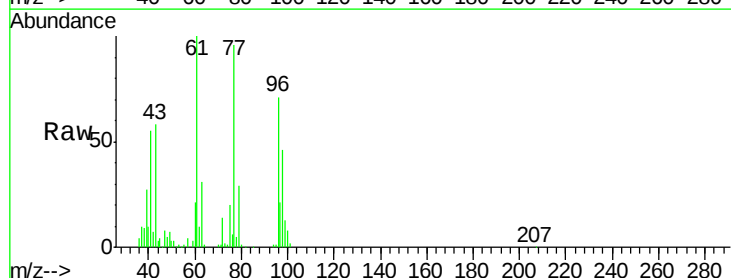
Acq: 05 Feb 2020 12:59

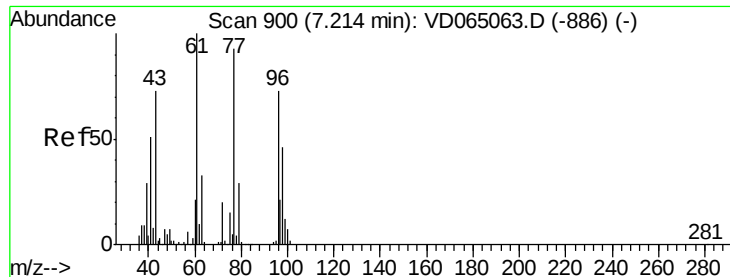
Tgt Ion: 77 Resp: 191043

Ion Ratio Lower Upper

77 100

97 22.1 10.9 32.6





#27

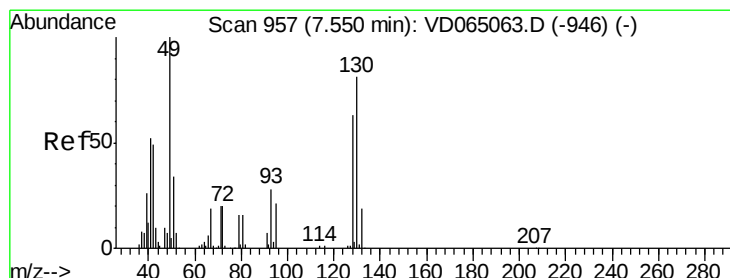
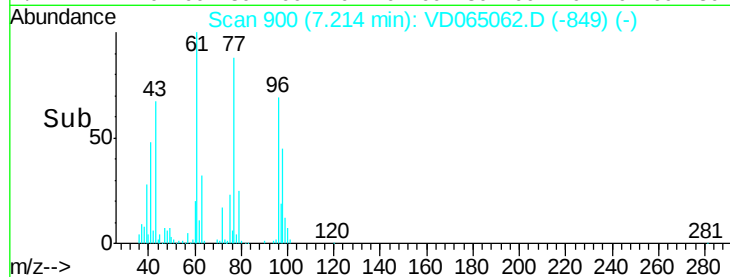
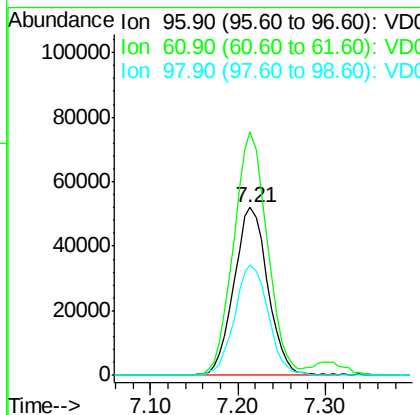
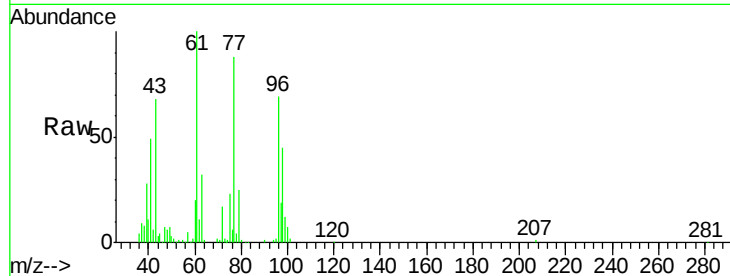
cis-1,2-Dichloroethene
 Concen: 20.673 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.1	0.0	292.8
98	65.1	0.0	128.8

Manual Integrations
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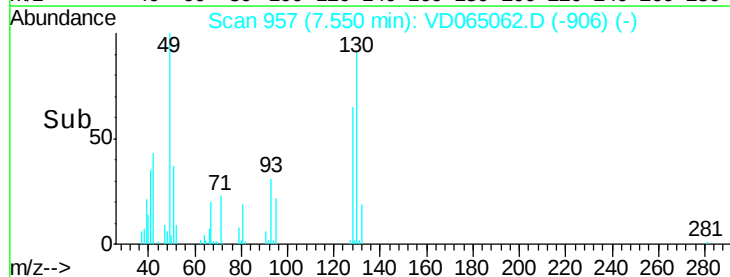
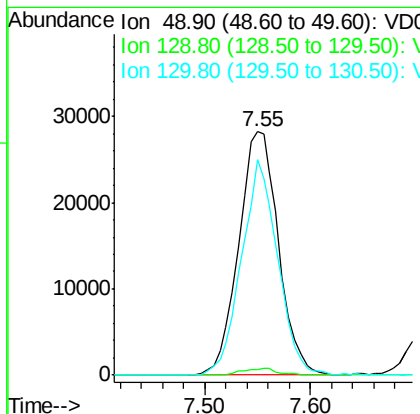
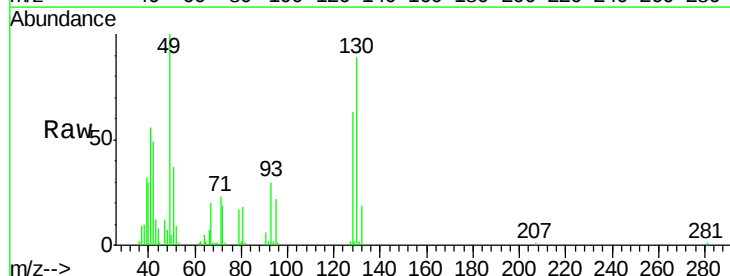
MMDadoda
 2/6/2020 10:37:11 AM

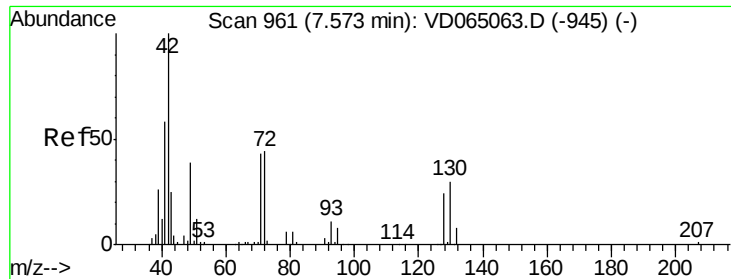


#28

Bromochloromethane
 Concen: 18.161 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.4
130	80.7	63.8	95.8





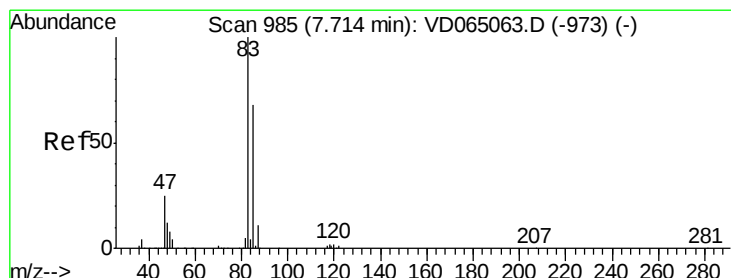
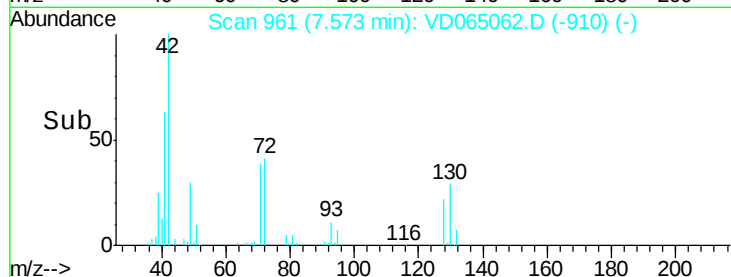
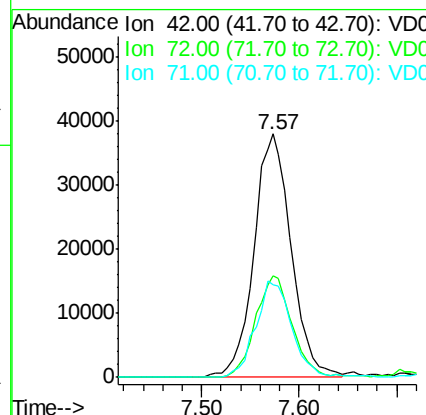
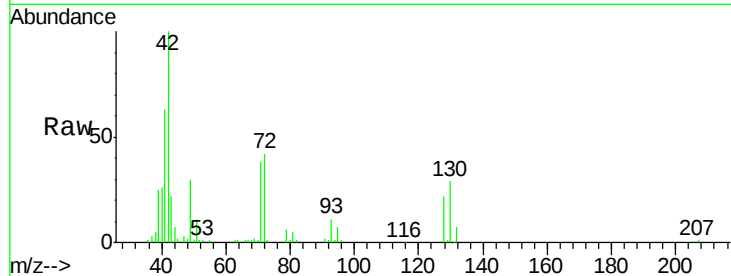
#29
Tetrahydrofuran
Concen: 104.001 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	34.2	51.4
71	38.3	31.8	47.6

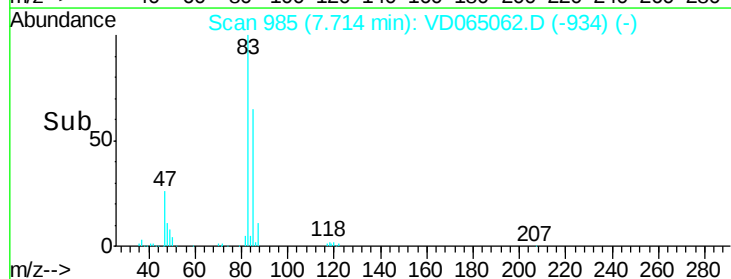
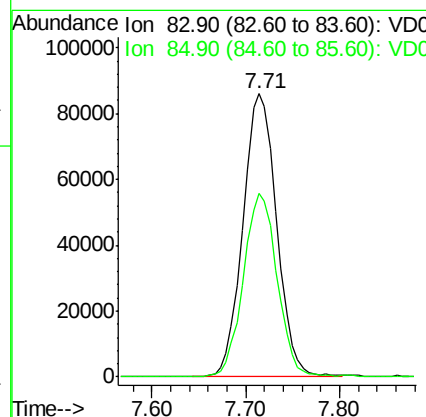
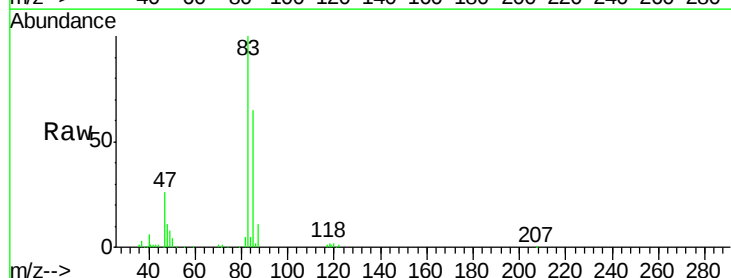
Manual Integrations
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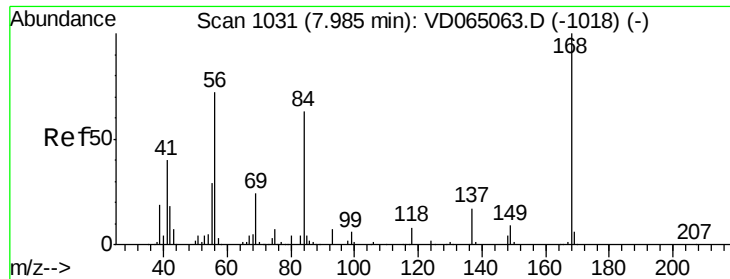
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2/6/2020 10:37:11 AM



#30
Chloroform
Concen: 19.861 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	54.2	81.4





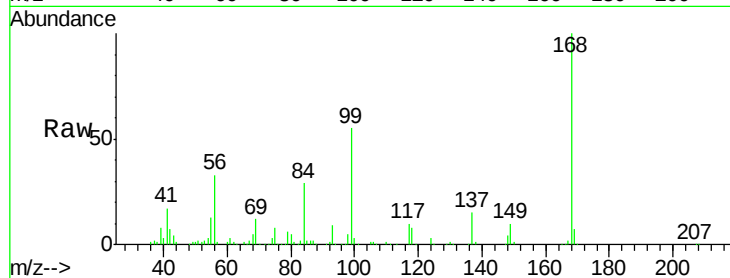
#31
Cyclohexane
Concen: 20.689 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.8	26.6	40.0
84	89.1	70.6	106.0

Manual Integrations
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MMDadoda
2/6/2020 10:37:11 AM

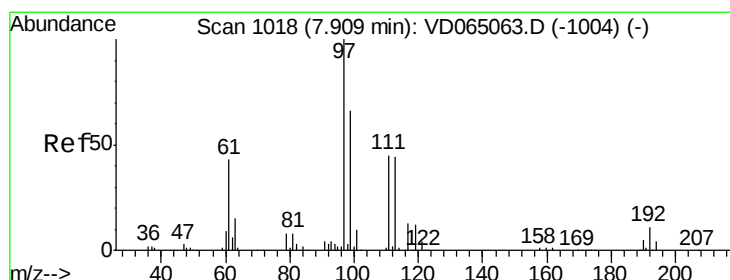
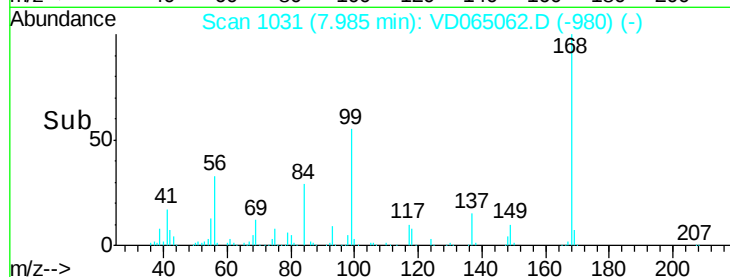
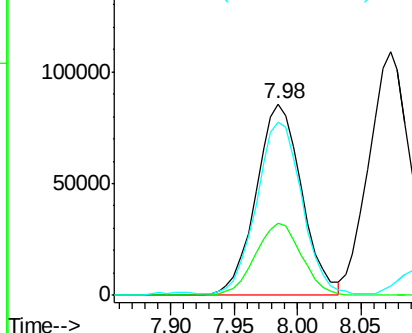


Abundance

Ion 56.00 (55.70 to 56.70): VDC

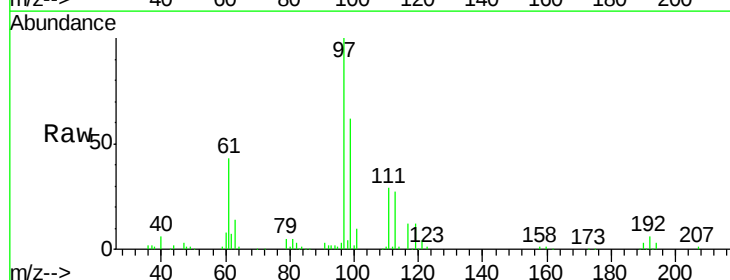
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC



#32
1,1,1-Trichloroethane
Concen: 19.835 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	43.8	34.8	52.2

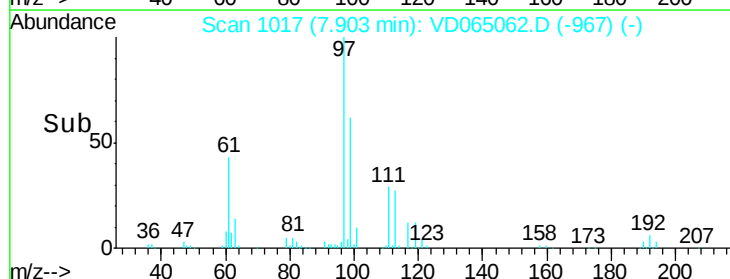
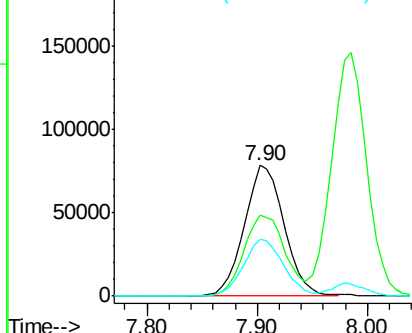


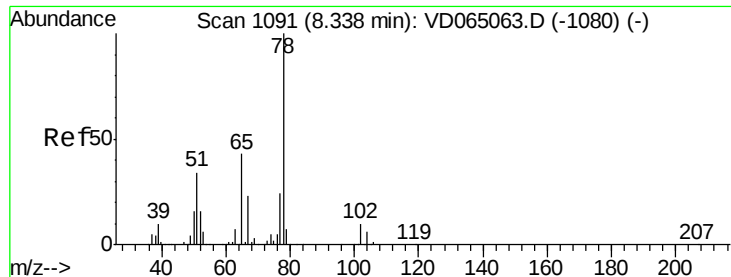
Abundance

Ion 96.90 (96.60 to 97.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 17.492 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 101316

Ion Ratio Lower Upper

65 100

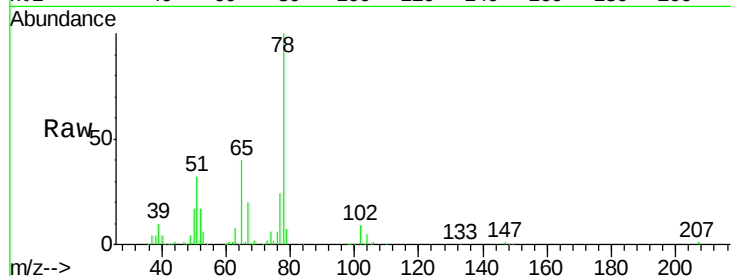
67 53.0 0.0 105.8

Manual Integrations

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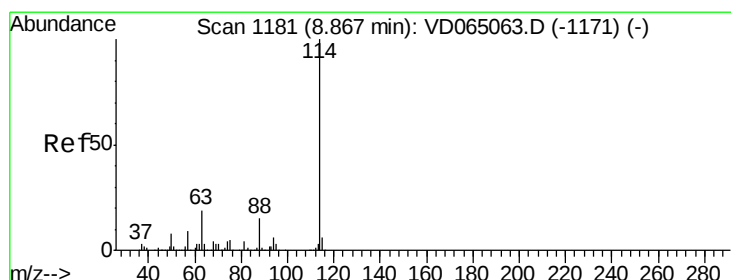
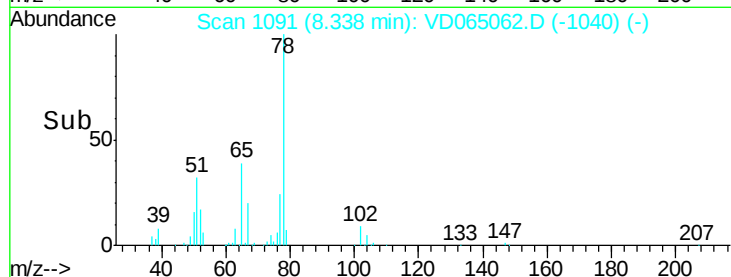
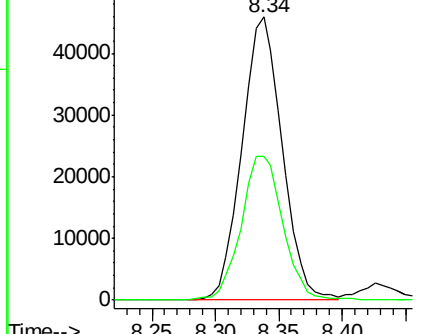
MMDadoda

2/6/2020 10:37:11 AM



Abundance Ion 64.90 (64.60 to 65.60): VD065063.D (-1080) (-)

Ion 66.90 (66.60 to 67.60): VD065063.D (-1080) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

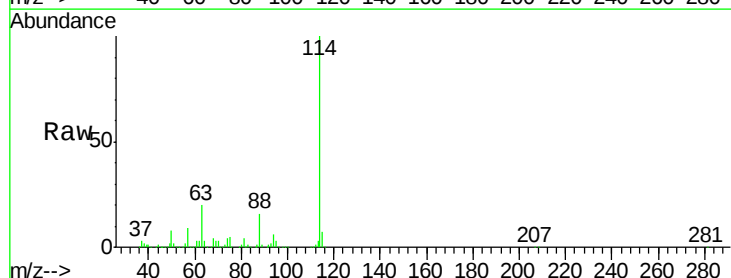
Tgt Ion: 114 Resp: 913368

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.8

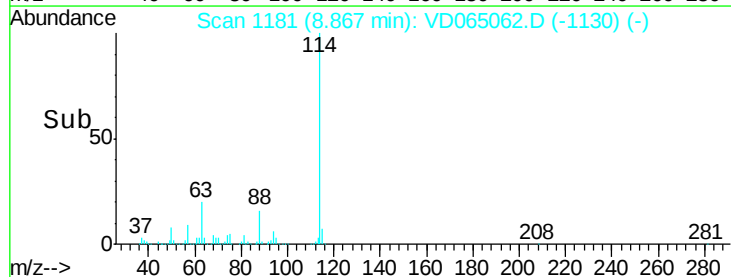
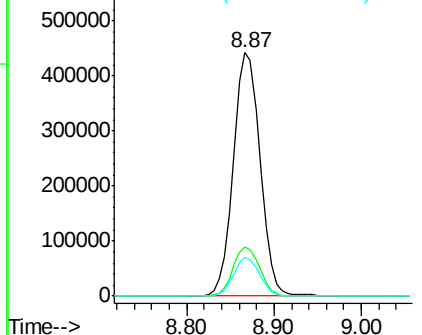
88 16.0 0.0 29.6

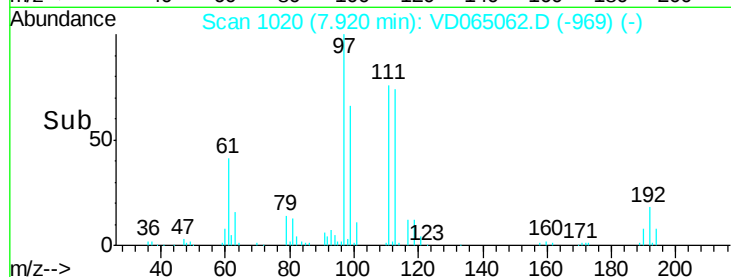
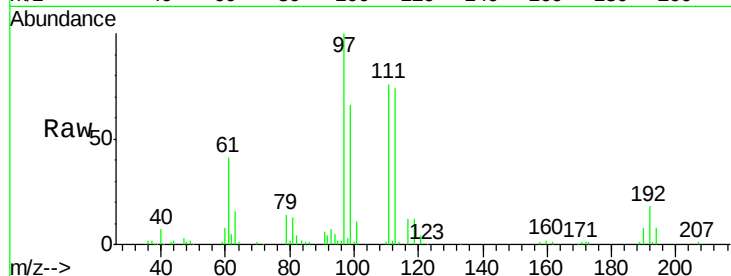
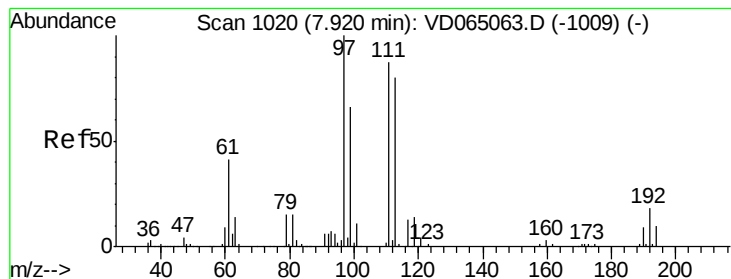


Abundance Ion 113.90 (113.60 to 114.60): VD065063.D (-1171) (-)

Ion 63.00 (62.70 to 63.70): VD065063.D (-1171) (-)

Ion 87.90 (87.60 to 88.60): VD065063.D (-1171) (-)





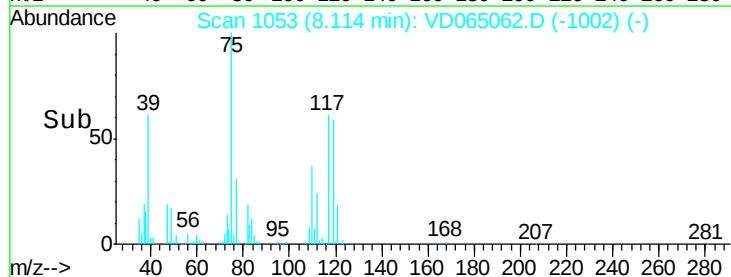
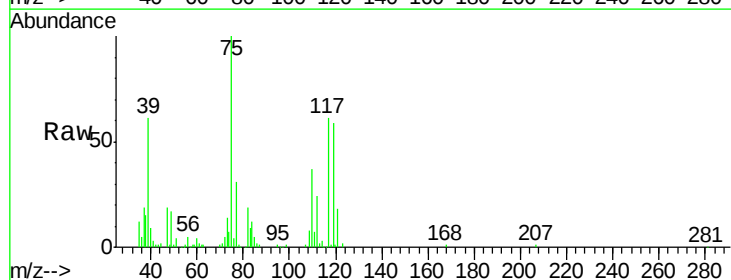
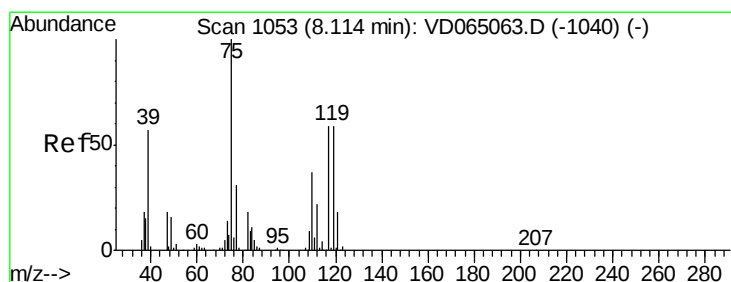
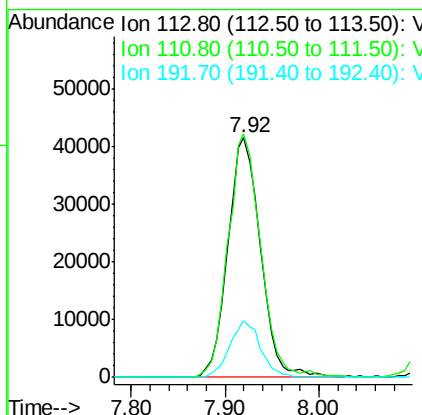
#35
Dibromofluoromethane
Concen: 17.780 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tot Ion	Ratio	Resp	Lower	Upper
113	100	100198		
111	101.7	83.1	124.7	
192	22.1	18.1	27.1	

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

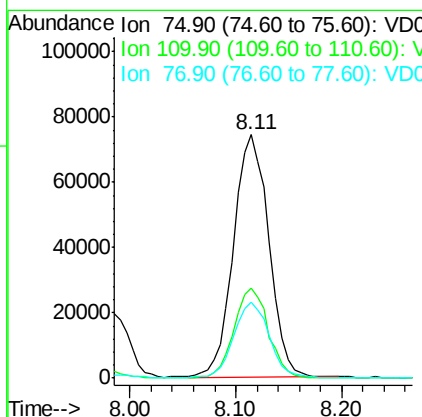
Manual Integrations
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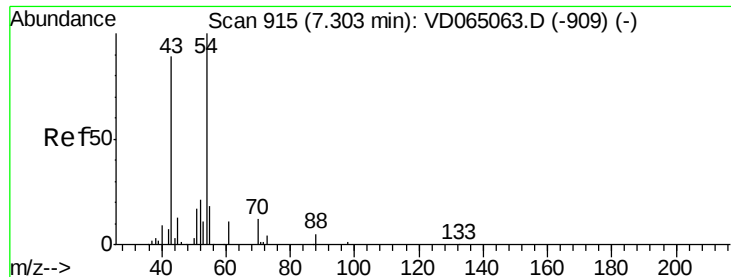
MMDadoda
2/6/2020 10:37:11 AM



#36
1,1-Dichloropropene
Concen: 19.635 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	172646		
110	36.0	18.1	54.3	
77	31.6	24.7	37.1	





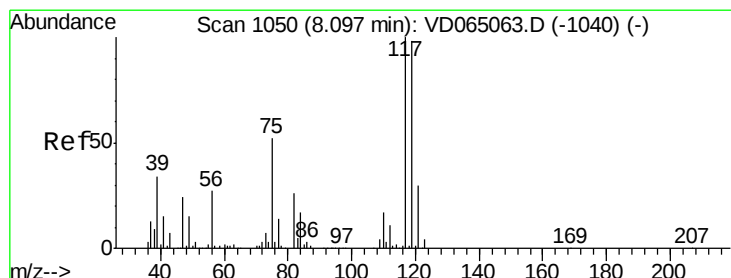
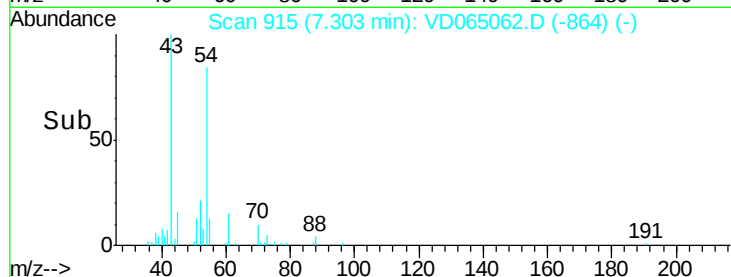
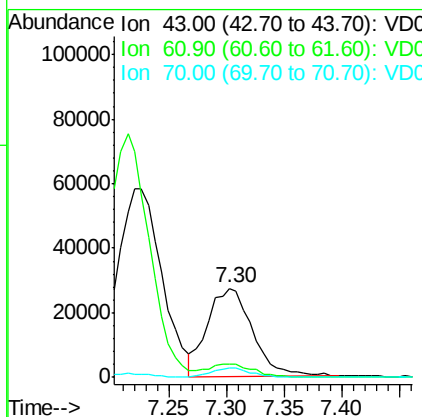
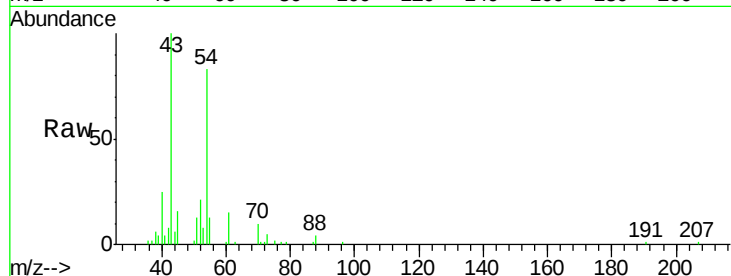
#37
Ethyl Acetate
Concen: 20.466 ug/l
RT: 7.30 min Scan# 915
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.0	16.4
70	9.6	8.2	12.2

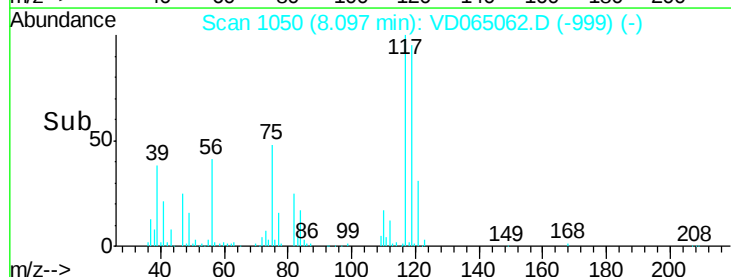
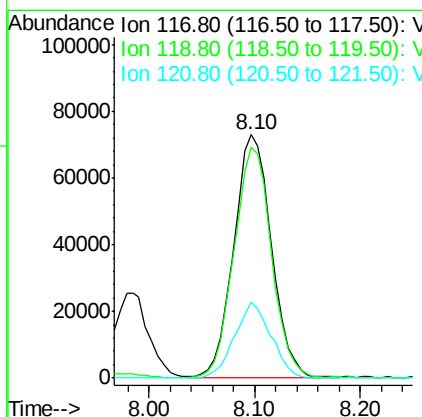
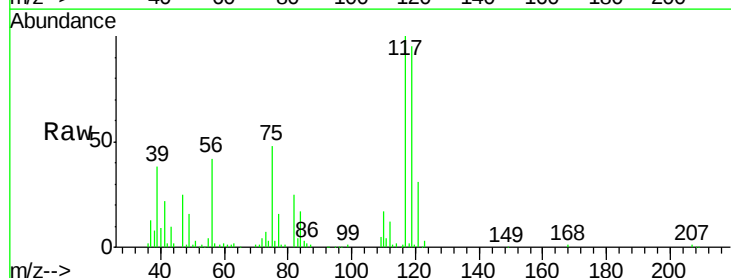
Manual Integrations
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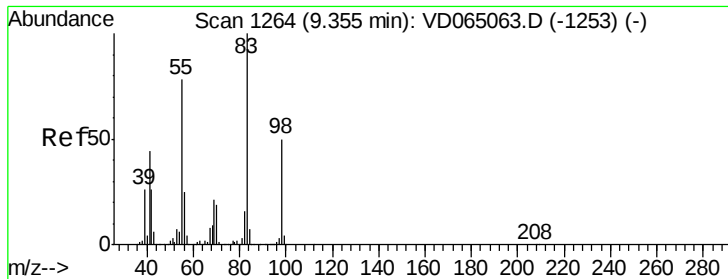
MMDadoda
2/6/2020 10:37:11 AM



#38
Carbon Tetrachloride
Concen: 19.433 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	78.5	117.7
121	31.1	23.8	35.6





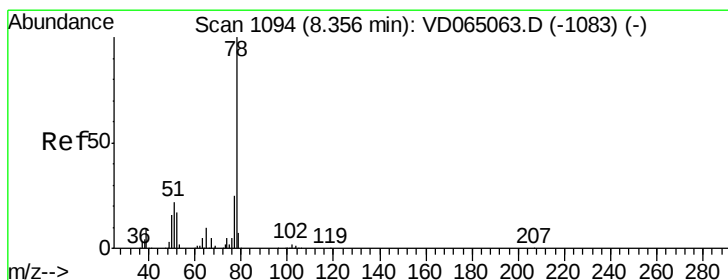
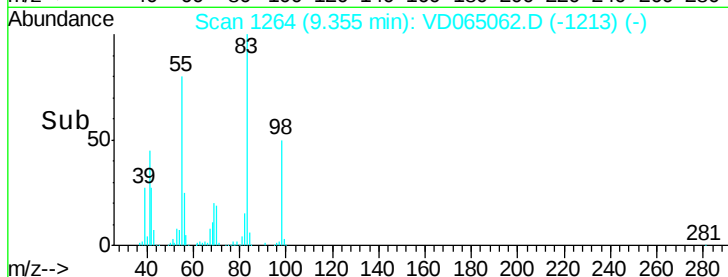
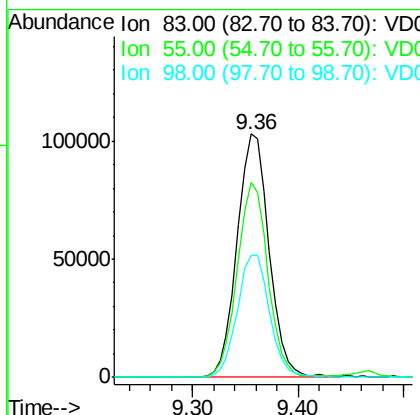
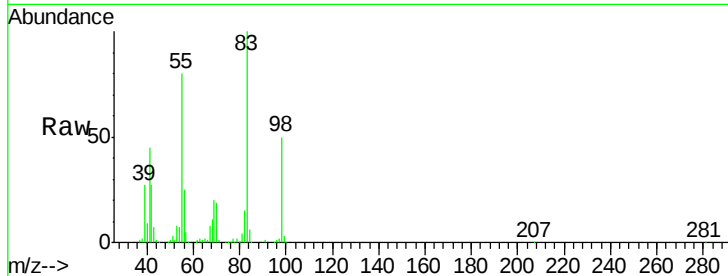
#39
Methvlcvclohexane
Concen: 20.871 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.0	62.0	93.0
98	50.3	39.9	59.9

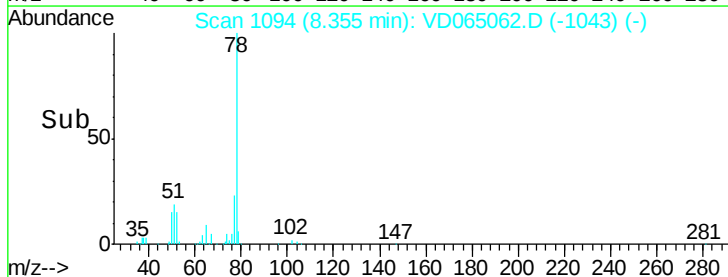
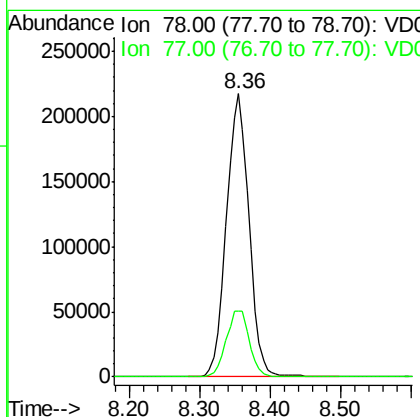
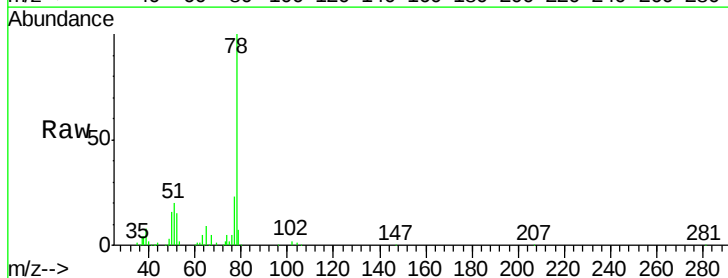
Manual Integrations
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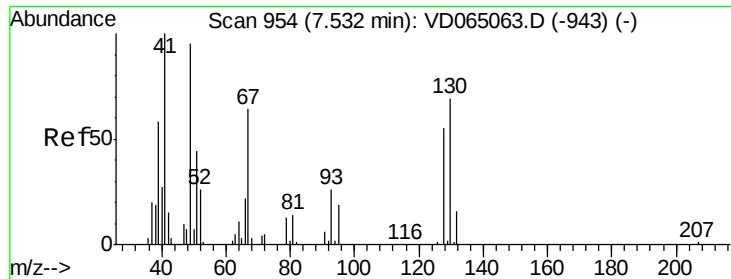
MMDadoda
2/6/2020 10:37:11 AM



#40
Benzene
Concen: 19.954 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.6	29.4





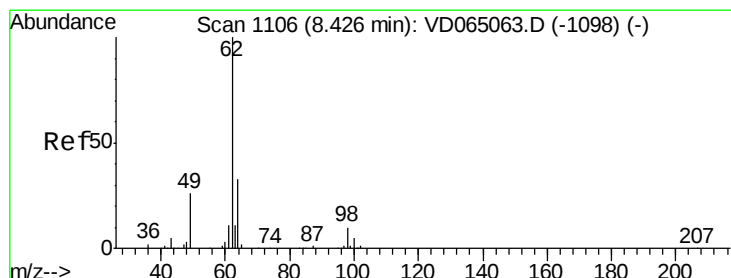
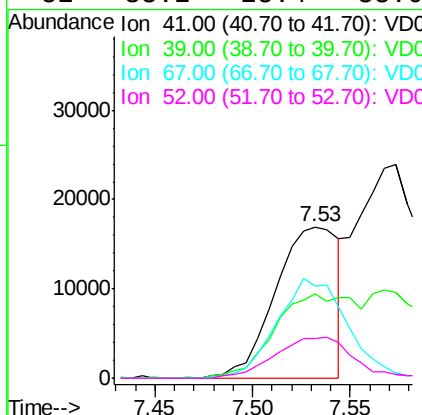
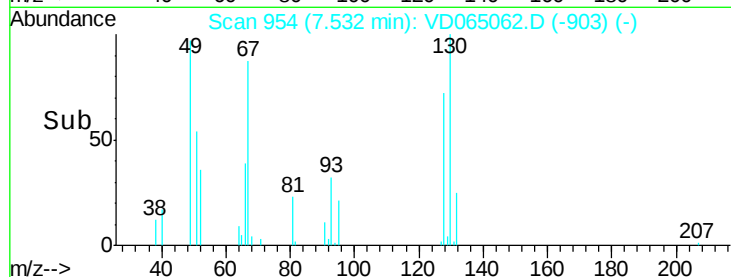
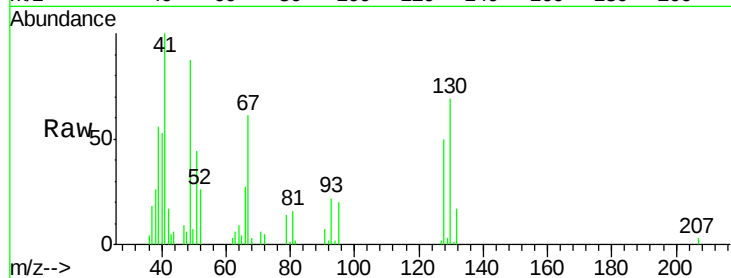
#41
Methacrylonitrile
Concen: 20.018 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	41	Resp	38132
Ion	Ratio	Lower	Upper
41	100		
39	72.1	55.4	83.0
67	73.5	59.0	88.6
52	33.2	25.4	38.0

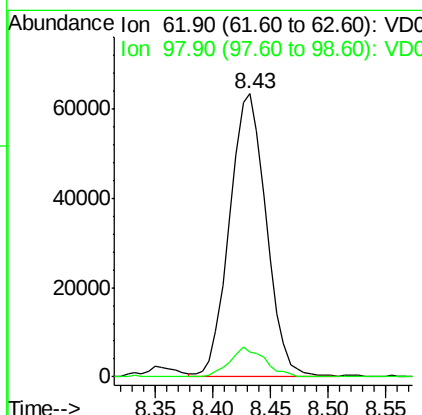
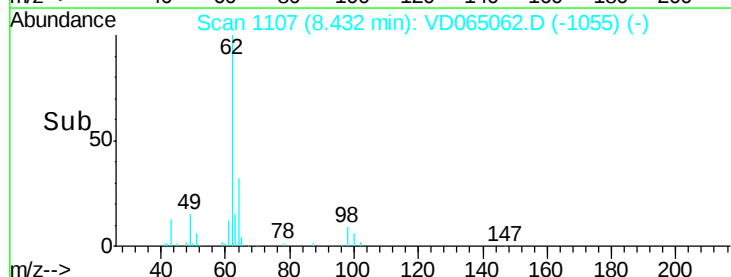
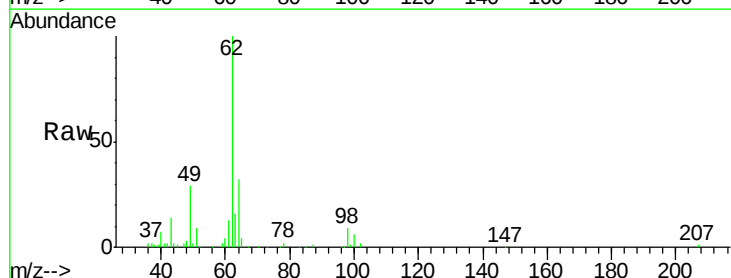
Manual Integrations
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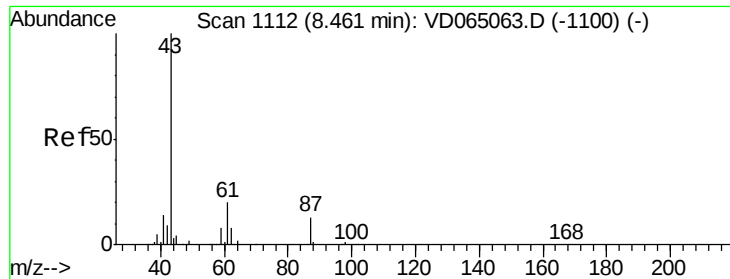
MMDadoda
2/6/2020 10:37:11 AM



#42
1,2-Dichloroethane
Concen: 19.443 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	62	Resp	139060
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	18.6





#43

Isopropyl Acetate

Concen: 19.837 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

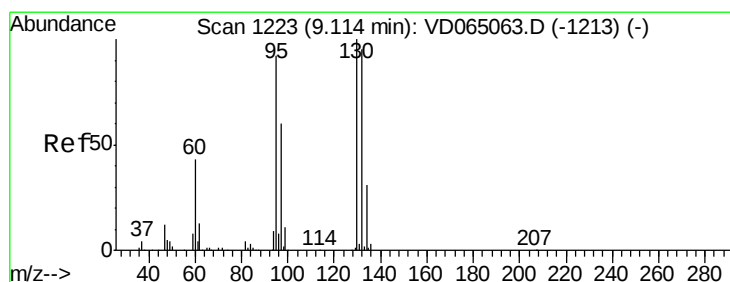
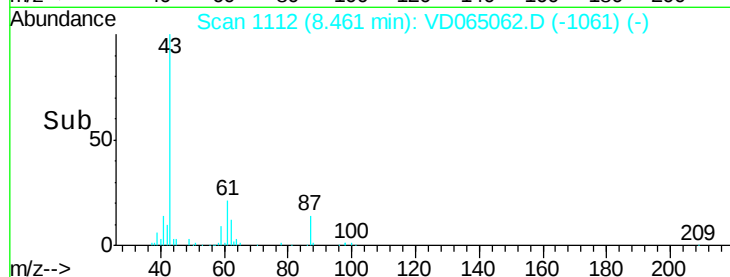
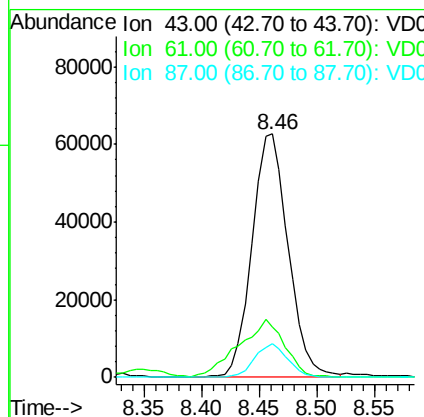
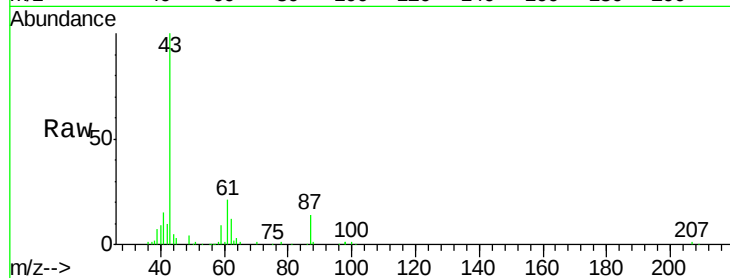
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	136308
Ion	Ratio	Lower	Upper
43	100		
61	30.1	24.0	36.0
87	12.8	10.2	15.4

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2/6/2020 10:37:11 AM



#44

Trichloroethene

Concen: 20.426 ug/l

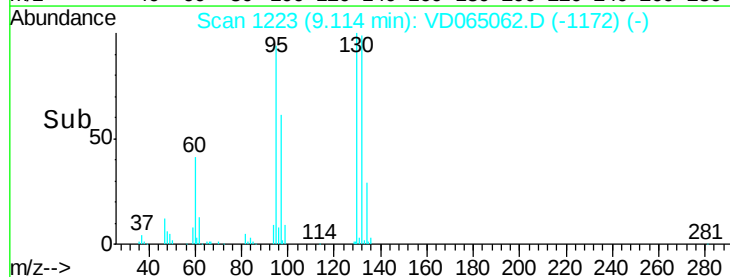
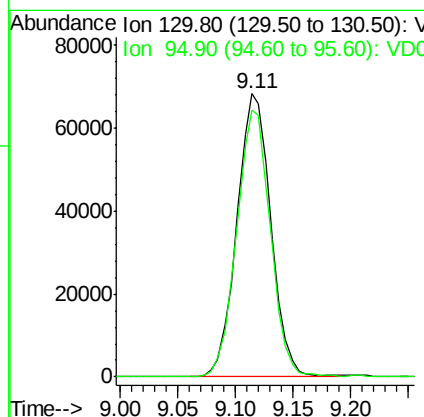
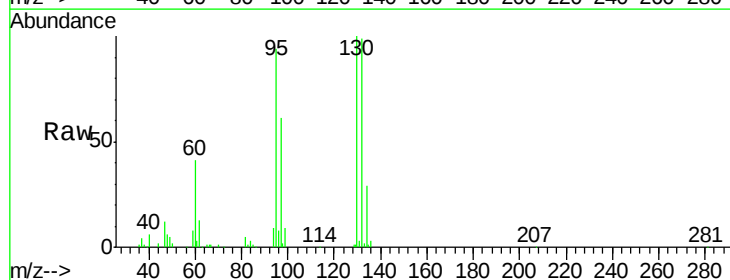
RT: 9.11 min Scan# 1223

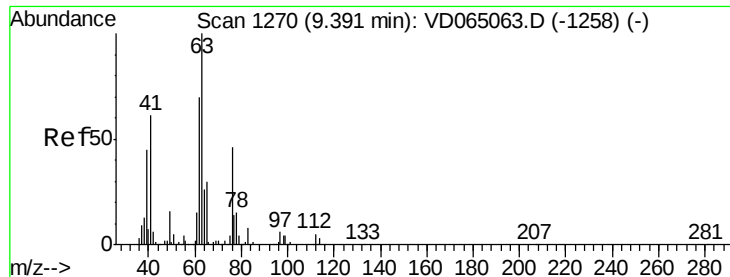
Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion:	130	Resp:	139210
Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	185.0





#45

1,2-Dichloropropane

Concen: 19.720 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 115947

Ion Ratio Lower Upper

63 100

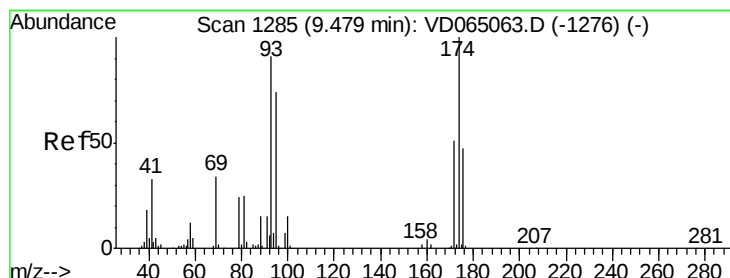
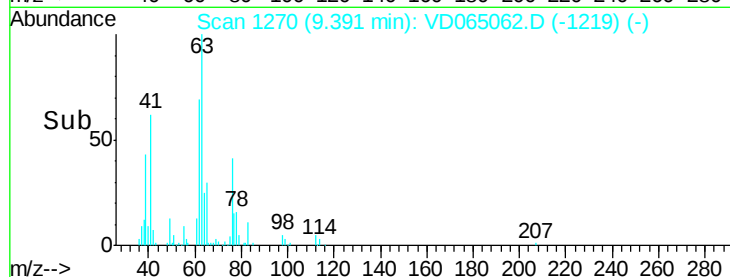
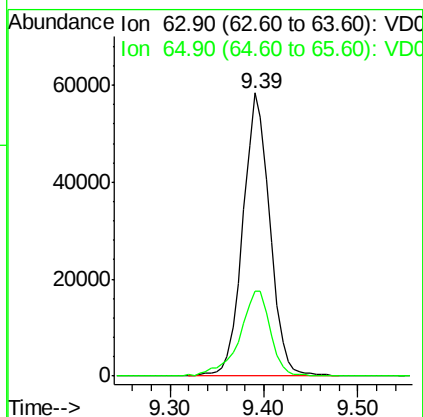
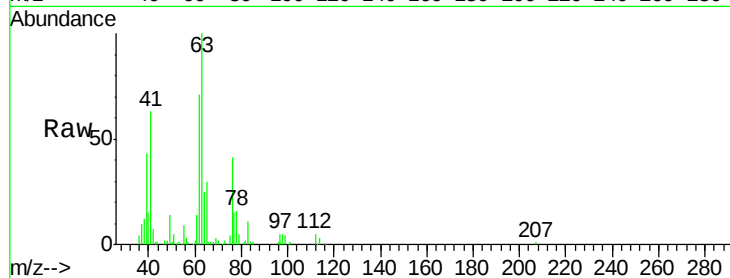
65 30.2 23.9 35.9

Manual Integrations

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MMDadoda

2/6/2020 10:37:11 AM



#46

Dibromomethane

Concen: 18.985 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

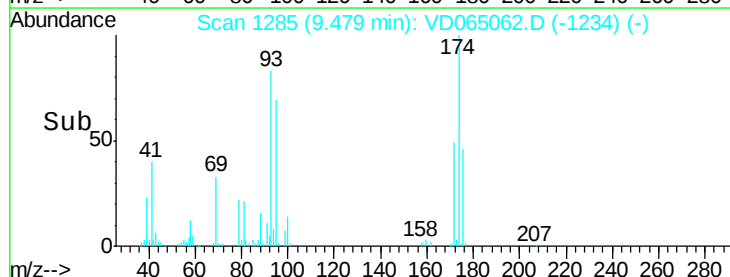
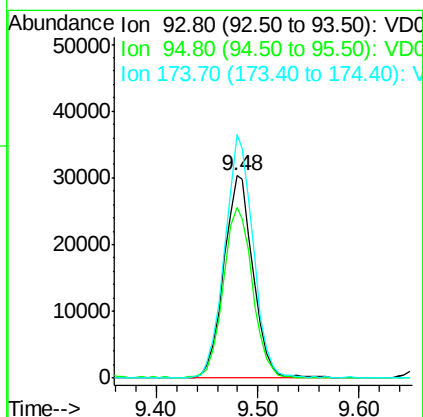
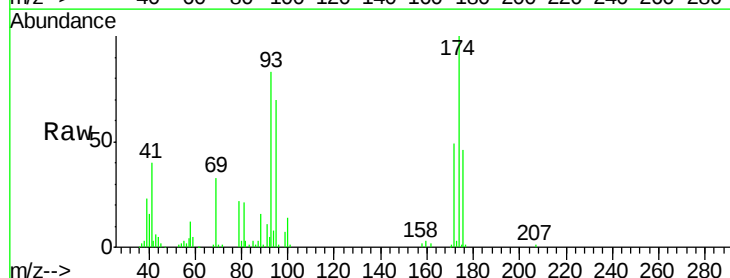
Tgt Ion: 93 Resp: 60464

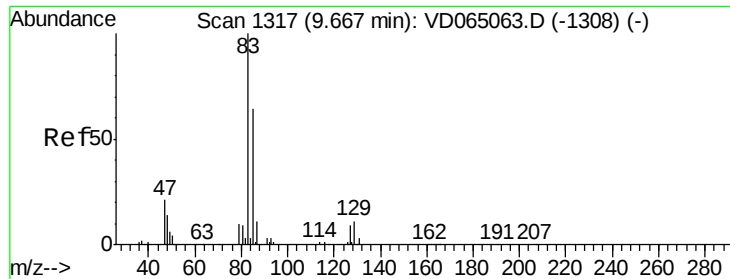
Ion Ratio Lower Upper

93 100

95 84.4 66.5 99.7

174 116.6 89.8 134.8





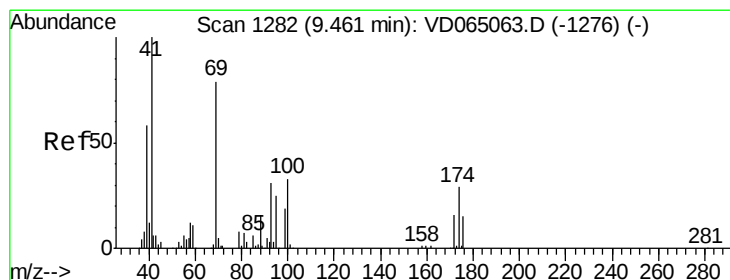
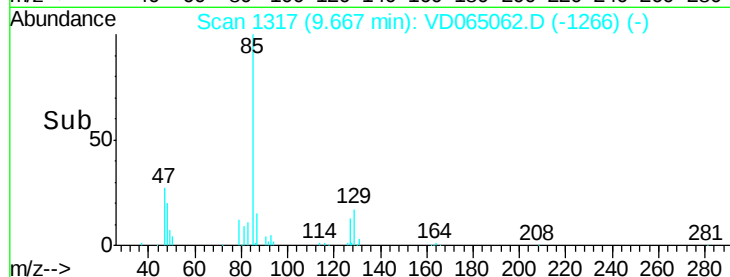
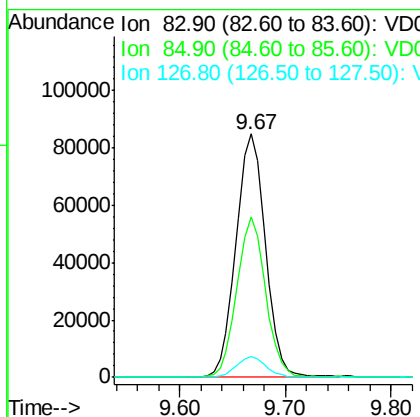
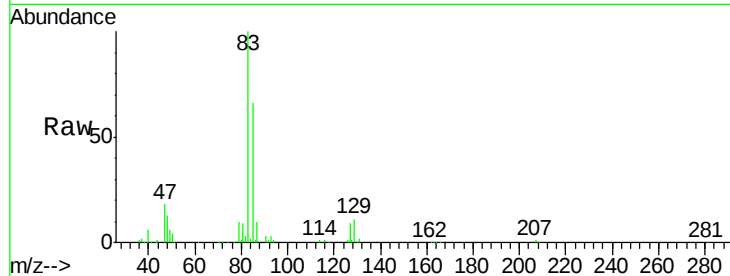
#47
Bromodichloromethane
Concen: 19.836 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.0	76.6
127	8.8	7.3	10.9

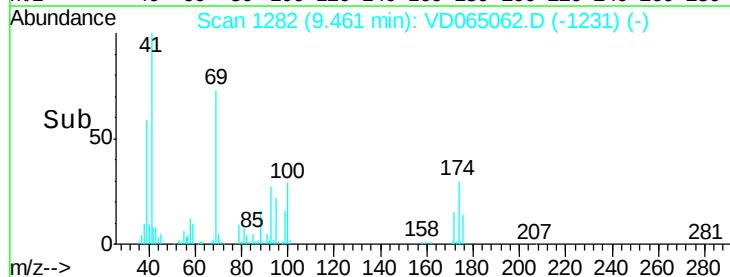
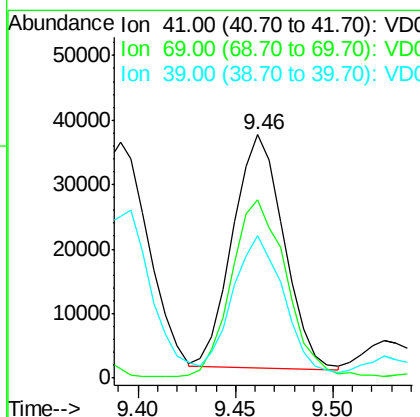
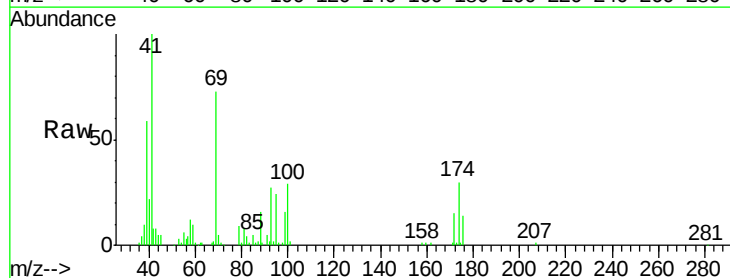
Manual Integrations
APPROVED

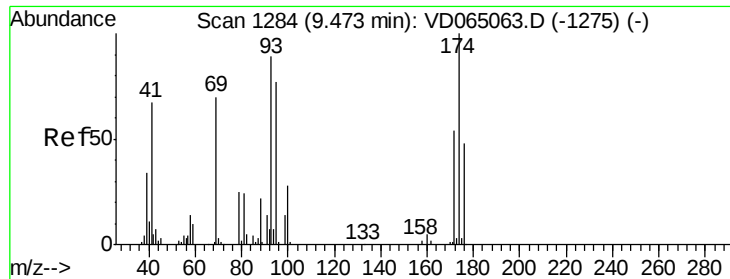
MMDadoda
2/6/2020 10:37:11 AM



#48
Methyl methacrylate
Concen: 20.756 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
41	100		
69	83.5	67.5	101.3
39	57.7	47.0	70.4





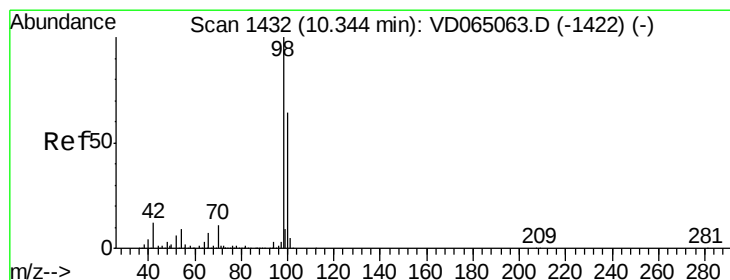
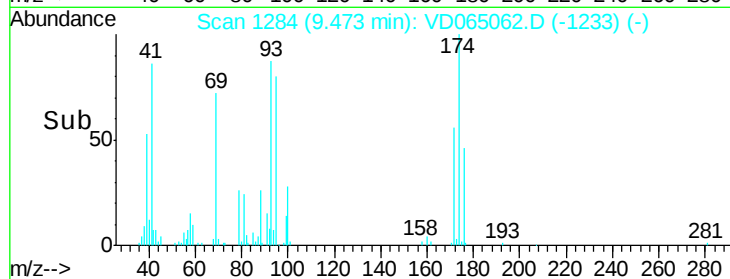
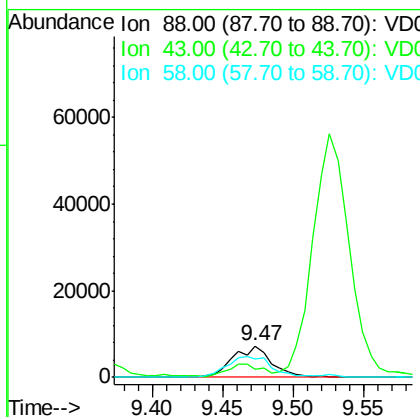
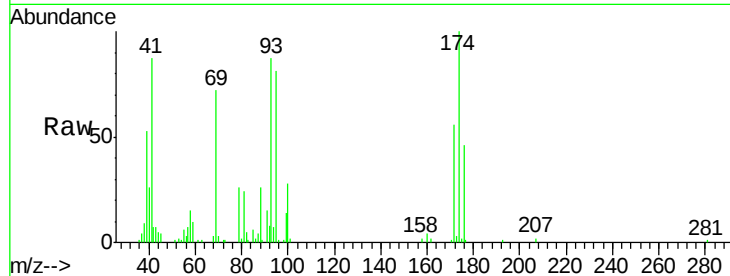
#49
1,4-Dioxane
Concen: 380.707 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	13934
Ion	Ratio	Lower	Upper
88	100		
43	32.8	27.7	41.5
58	76.8	55.5	83.3

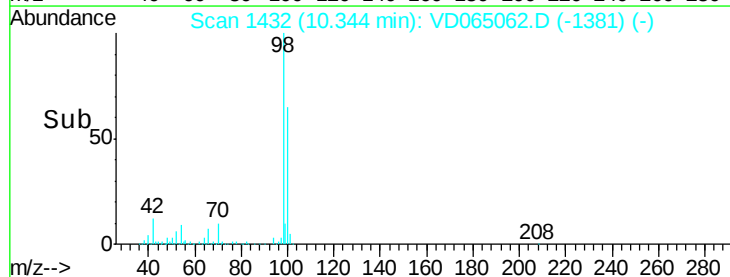
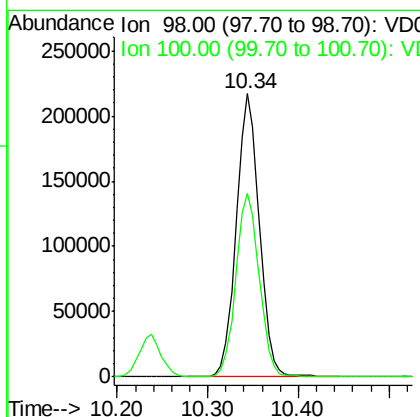
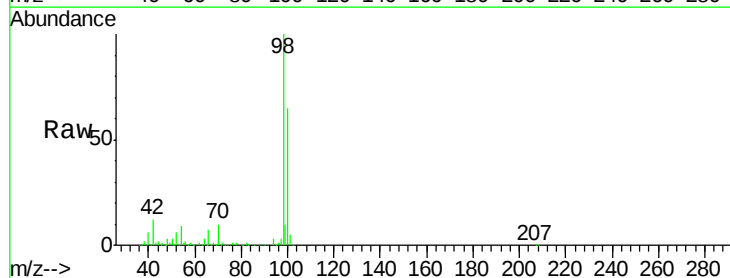
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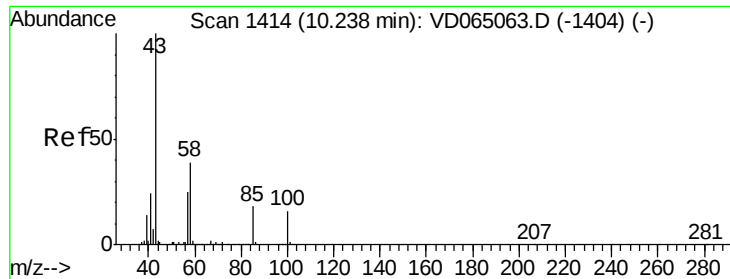
MMDadoda
2/6/2020 10:37:11 AM



#50
Toluene-d8
Concen: 17.639 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	98	Resp	384821
Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 100.331 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 342821

Ion Ratio Lower Upper

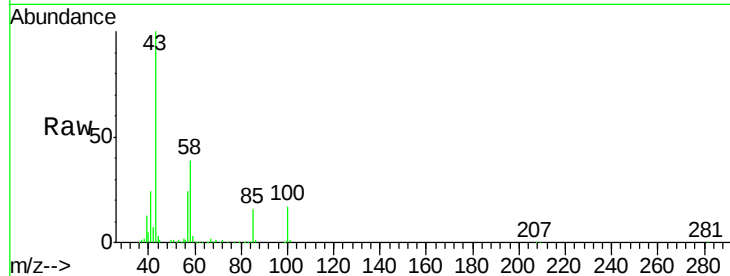
43 100

58 37.9 30.2 45.2

Manual Integrations
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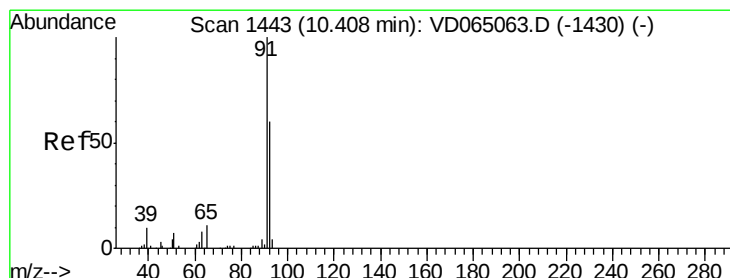
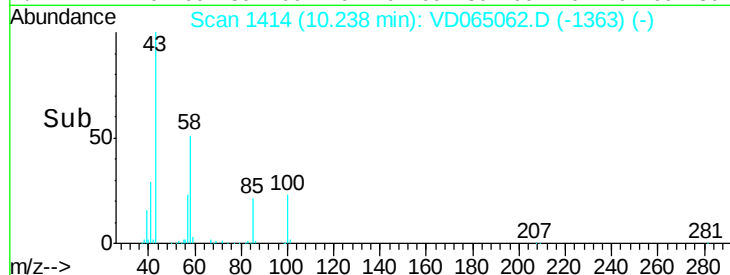
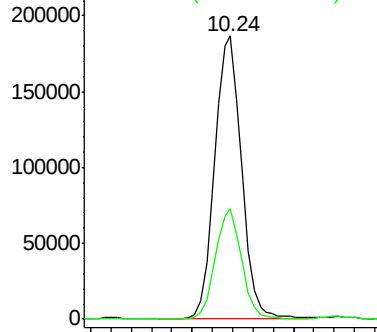
MMDadoda

2/6/2020 10:37:11 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 19.694 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065062.D

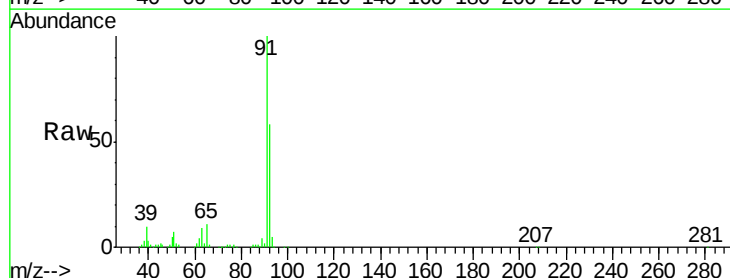
Acq: 05 Feb 2020 12:59

Tgt Ion: 92 Resp: 307514

Ion Ratio Lower Upper

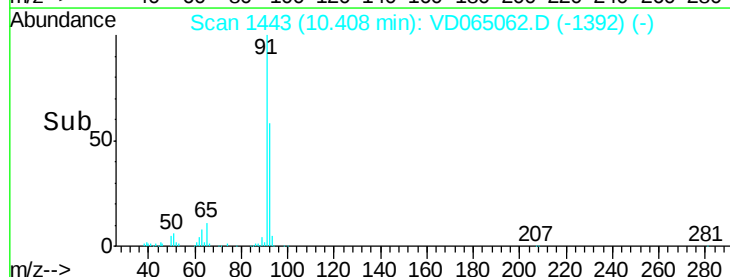
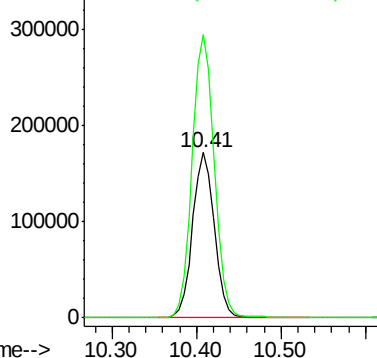
92 100

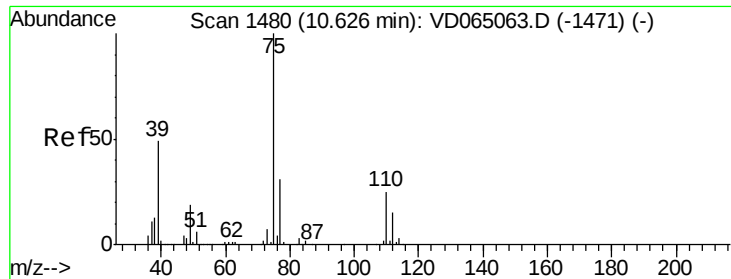
91 173.6 135.3 202.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





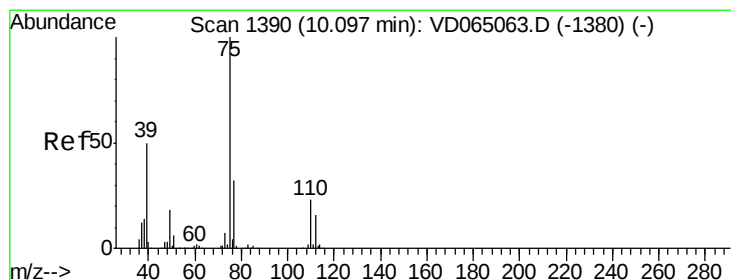
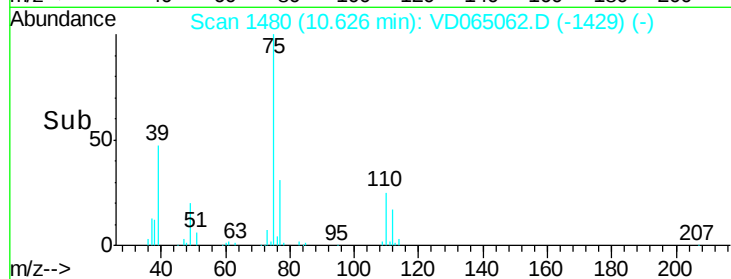
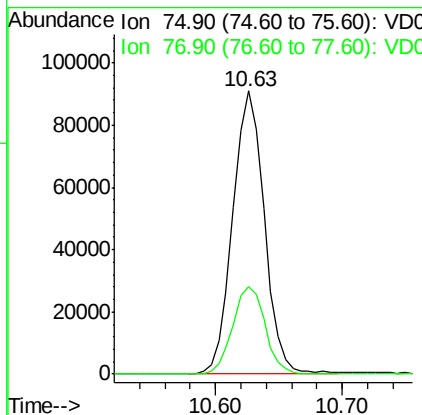
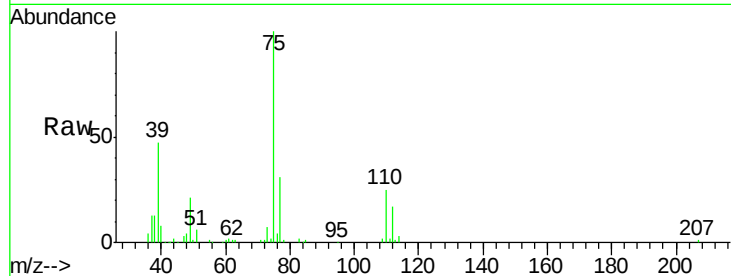
#53
t-1,3-Dichloropropene
Concen: 19.818 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.9	37.3

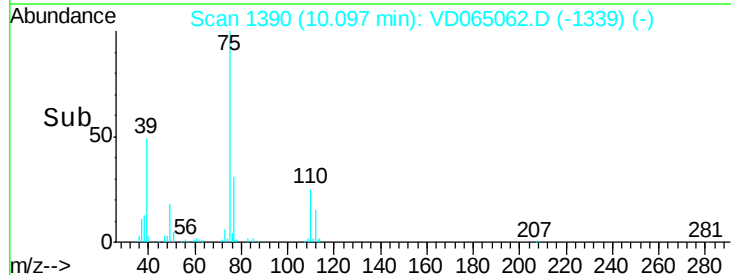
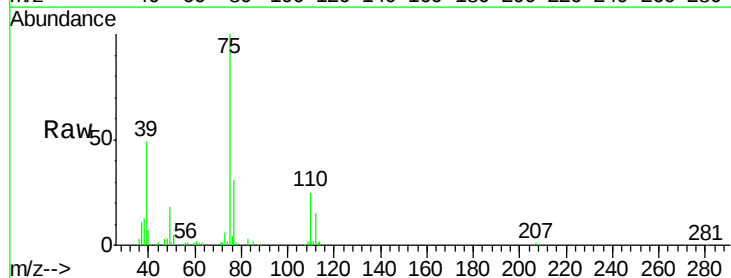
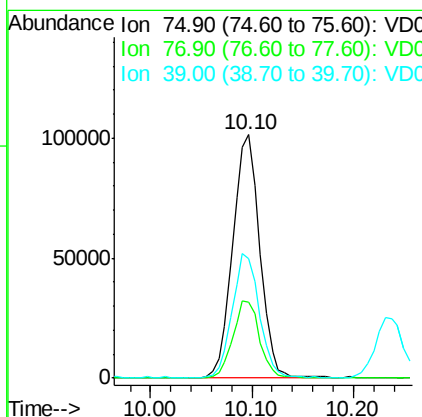
Manual Integrations
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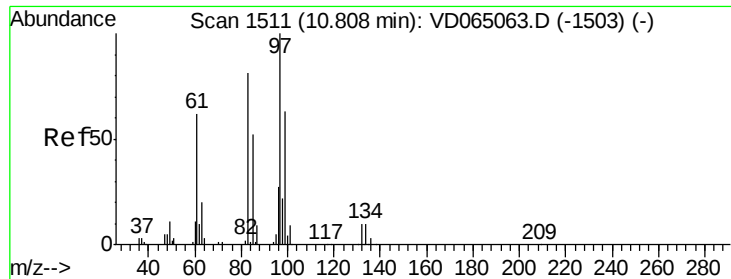
MMDadoda
2/6/2020 10:37:11 AM



#54
cis-1,3-Dichloropropene
Concen: 20.250 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.3	37.9
39	48.7	40.3	60.5





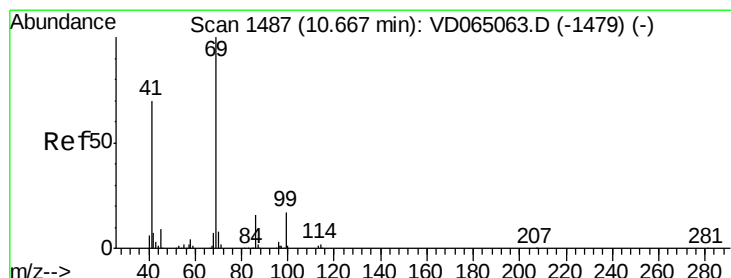
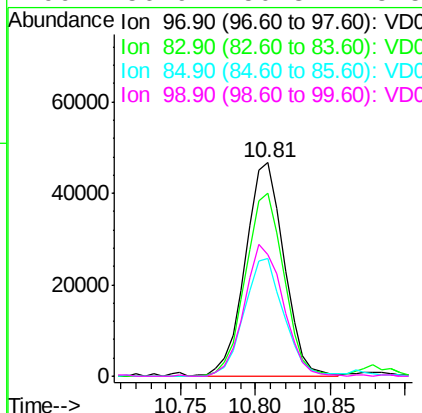
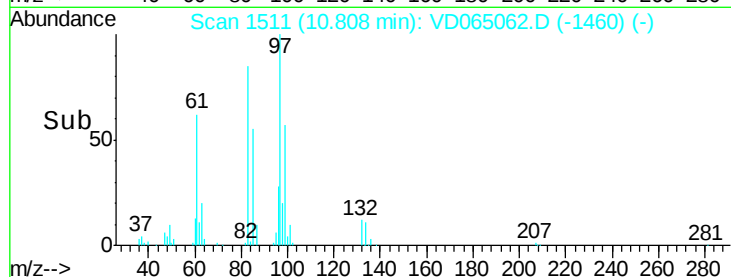
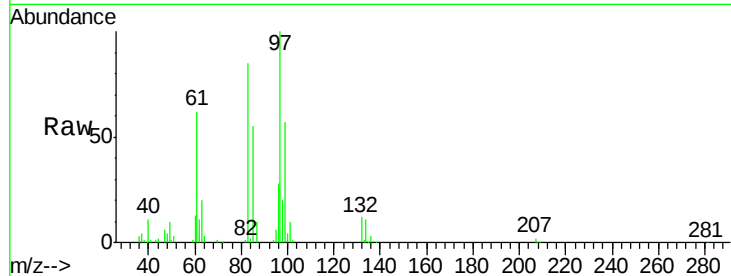
#55
 1,1,2-Trichloroethane
 Concen: 19.599 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	83998
Ion	Ratio	Lower	Upper
97	100		
83	85.4	64.8	97.2
85	55.3	41.2	61.8
99	56.9	50.3	75.5

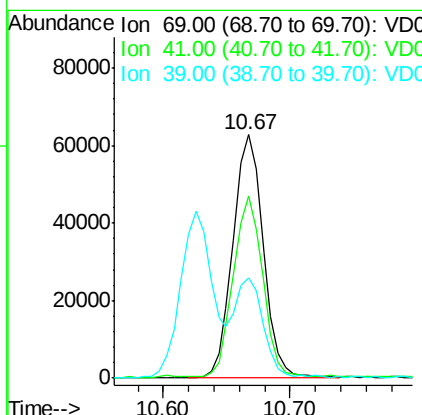
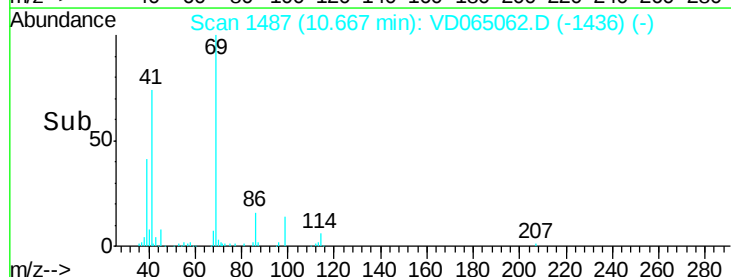
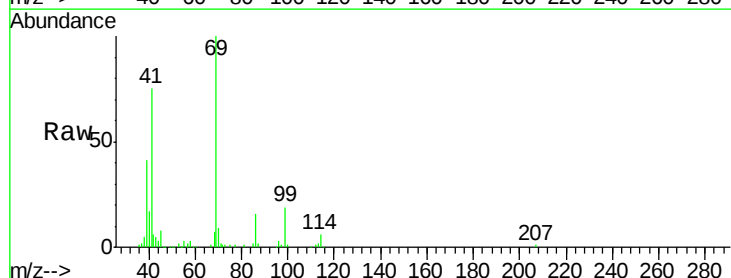
Manual Integrations
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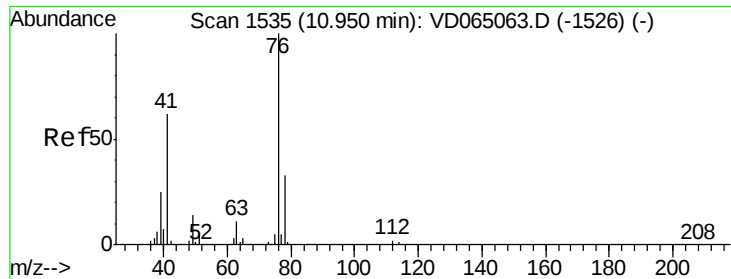
MMDadoda
 2/6/2020 10:37:11 AM



#56
 Ethyl methacrylate
 Concen: 20.301 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion:	69	Resp:	104404
Ion	Ratio	Lower	Upper
69	100		
41	71.3	55.9	83.9
39	38.1	29.4	44.0





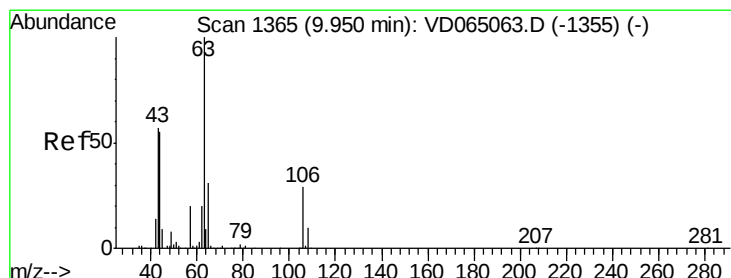
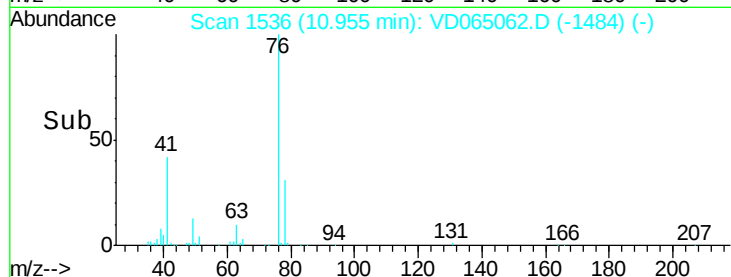
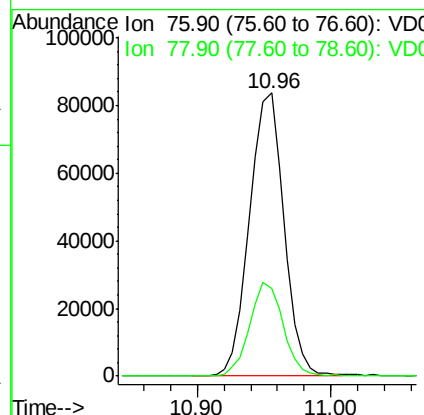
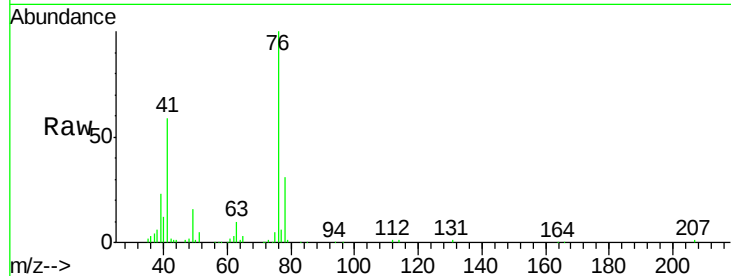
#57
 1,3-Dichloropropane
 Concen: 20.329 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 149723
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.8 38.6

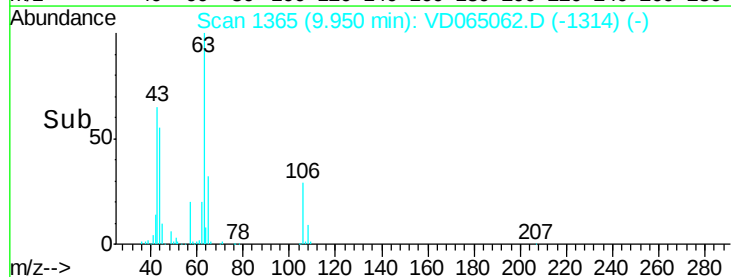
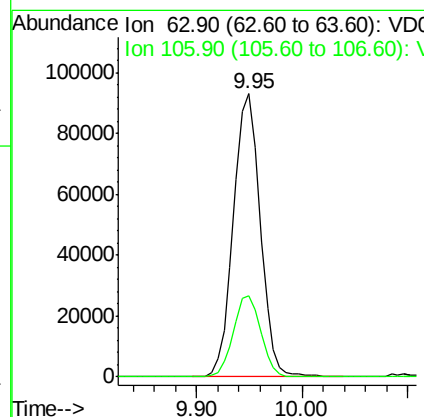
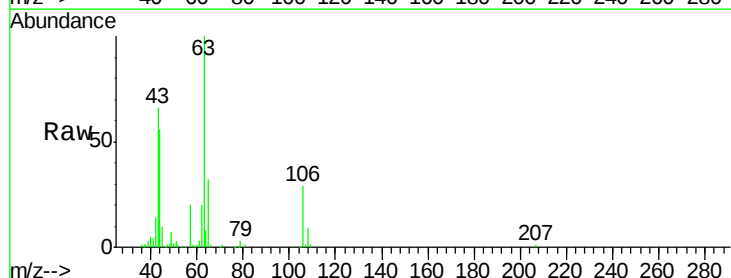
Manual Integrations
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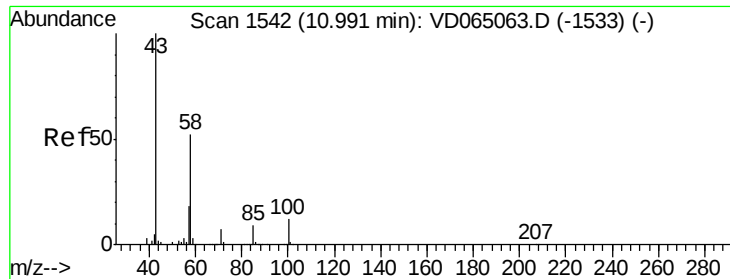
MMDadoda
 2/6/2020 10:37:11 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 91.564 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion: 63 Resp: 164021
 Ion Ratio Lower Upper
 63 100
 106 29.1 23.3 34.9





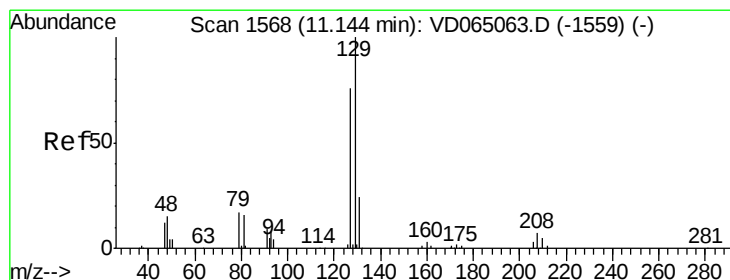
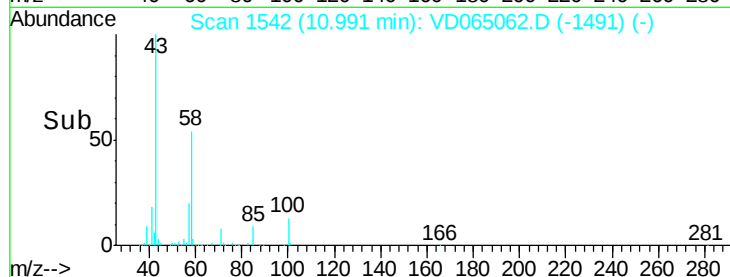
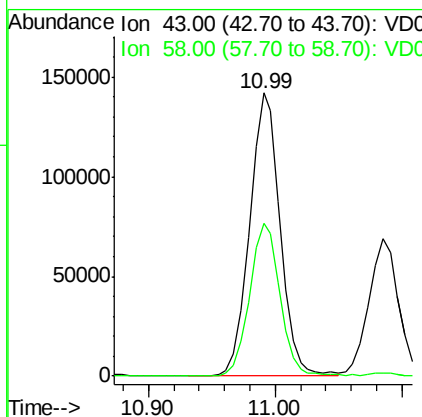
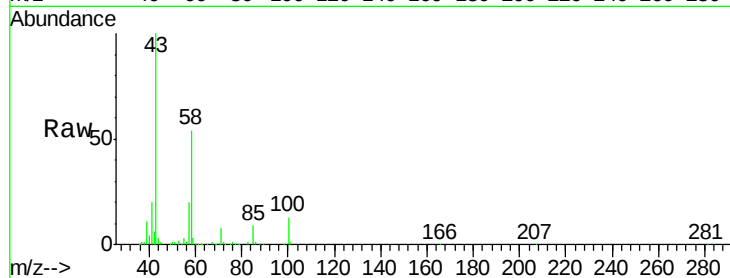
#59
2-Hexanone
Concen: 100.843 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 238489
Ion Ratio Lower Upper
43 100
58 53.8 26.2 78.6

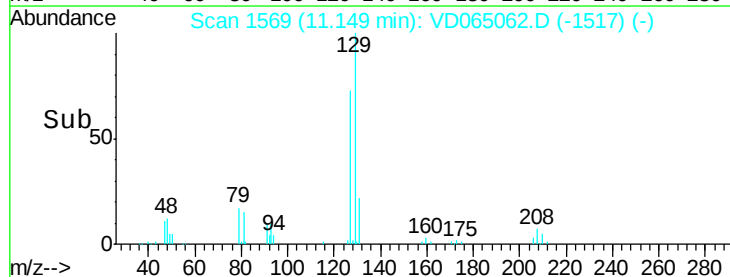
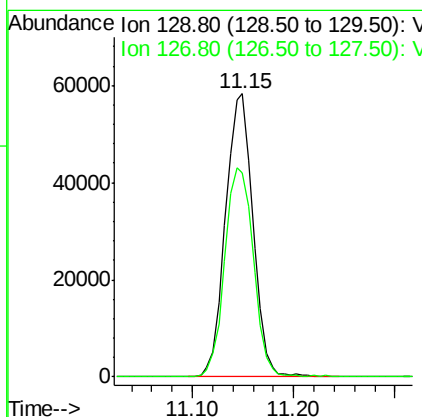
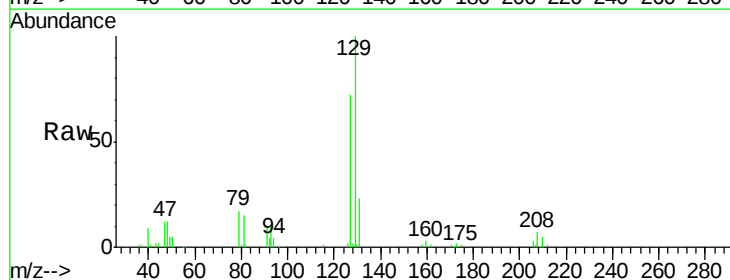
Manual Integrations
APPROVED

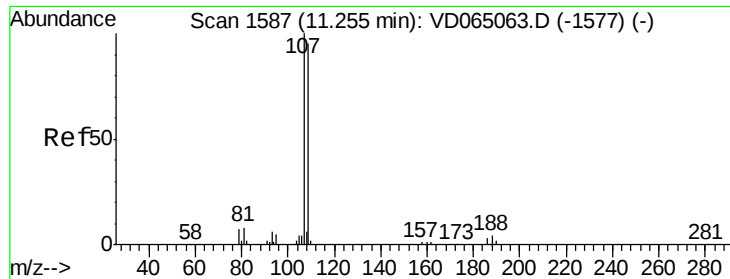
MMDadoda
2/6/2020 10:37:11 AM



#60
Dibromochloromethane
Concen: 19.230 ug/l
RT: 11.15 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion:129 Resp: 109815
Ion Ratio Lower Upper
129 100
127 76.9 38.3 114.9





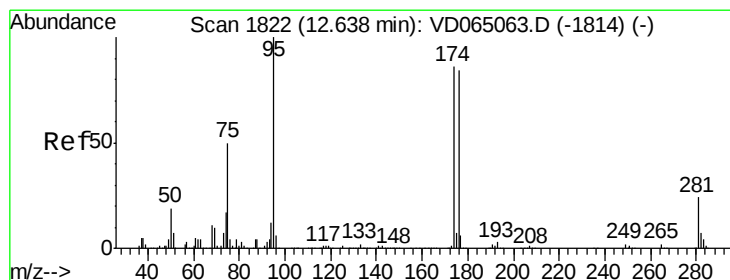
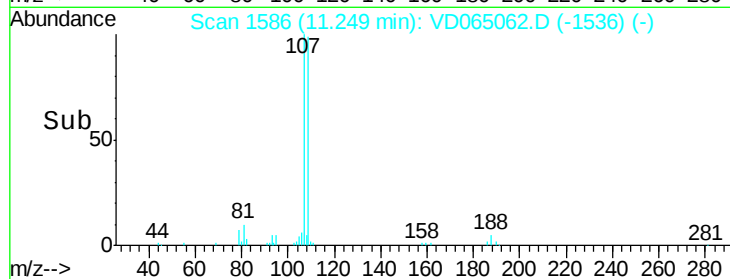
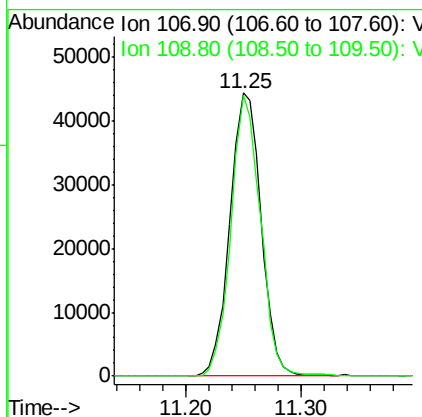
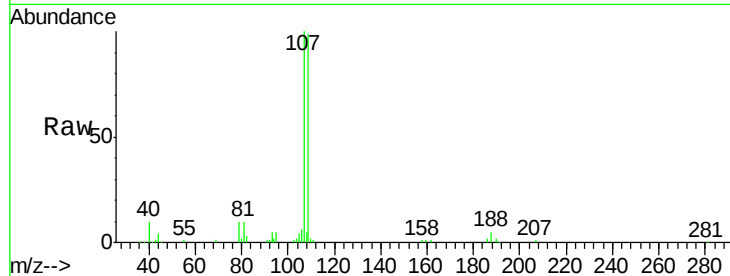
#61
 1,2-Dibromoethane
 Concen: 20.123 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 107 Resp: 83233
 Ion Ratio Lower Upper
 107 100
 109 93.8 75.5 113.3

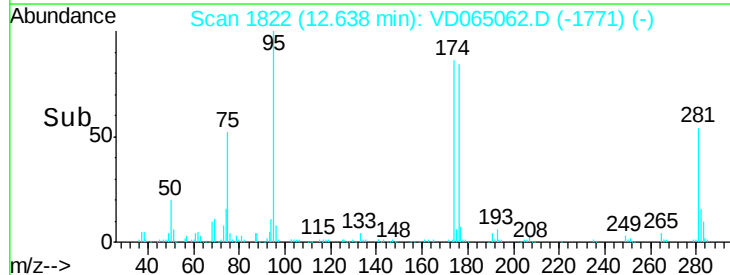
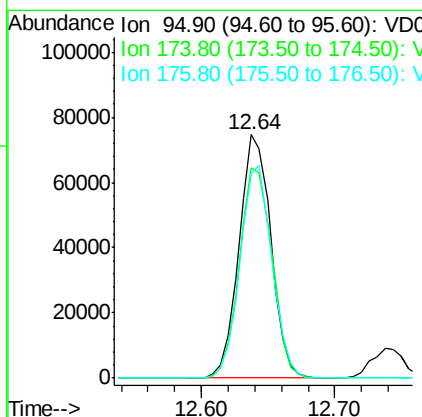
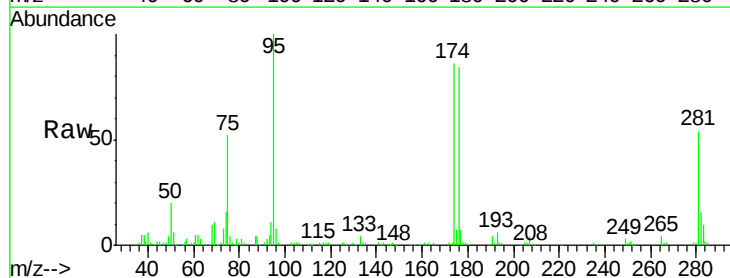
Manual Integrations
 APPROVED

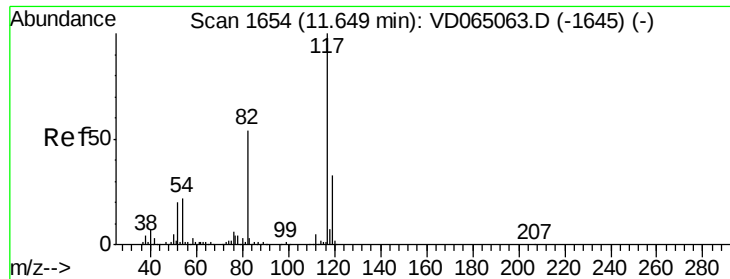
MMDadoda
 2/6/2020 10:37:11 AM



#62
 4-Bromofluorobenzene
 Concen: 18.256 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion: 95 Resp: 122940
 Ion Ratio Lower Upper
 95 100
 174 89.2 0.0 180.0
 176 87.6 0.0 173.2





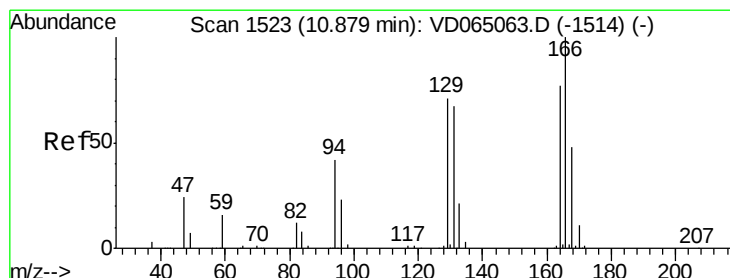
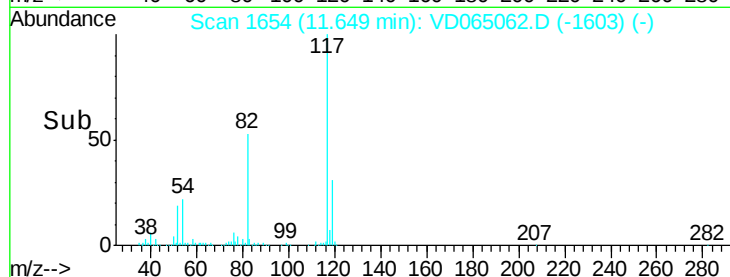
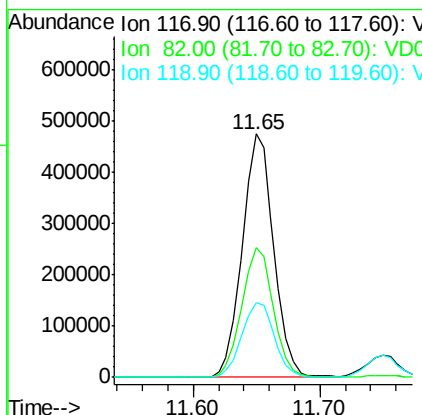
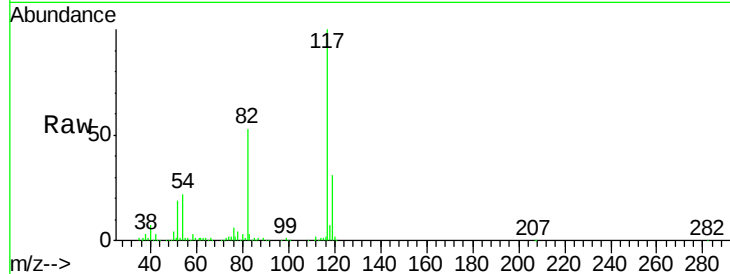
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.1	64.7
119	30.7	26.0	39.0

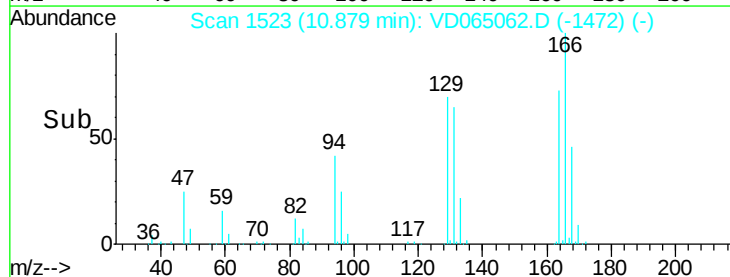
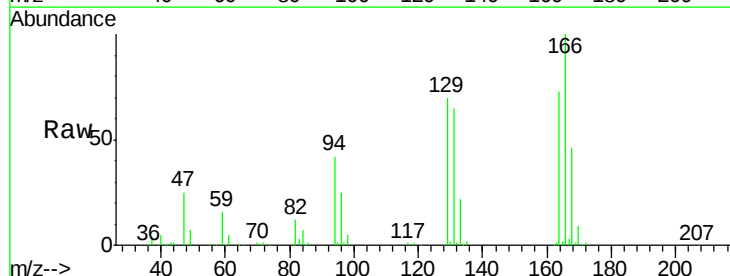
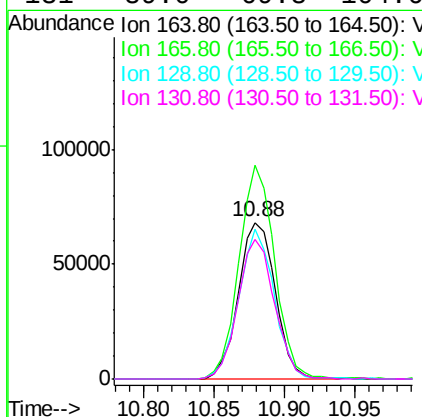
Manual Integrations
APPROVED

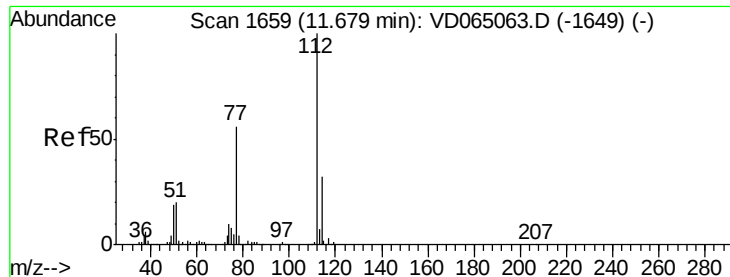
MMDadoda
2/6/2020 10:37:11 AM



#64
Tetrachloroethene
Concen: 21.192 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.7	103.5	155.3
129	95.6	73.3	109.9
131	89.0	69.8	104.6





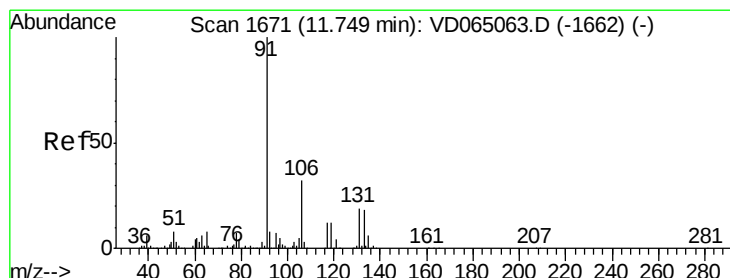
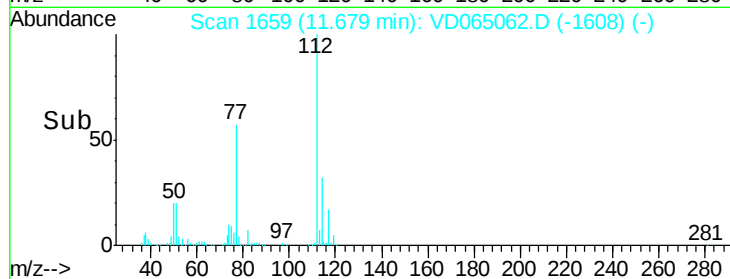
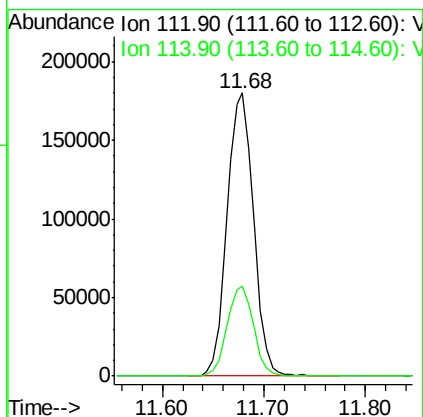
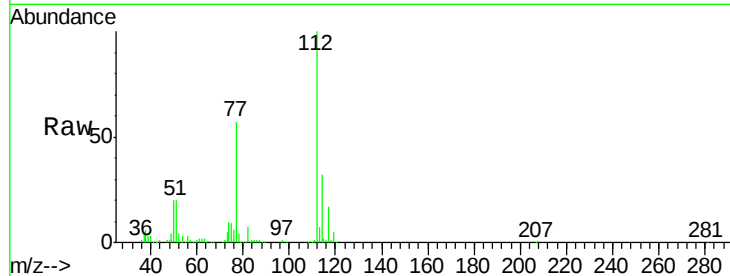
#65
Chlorobenzene
Concen: 19.599 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.4	38.0

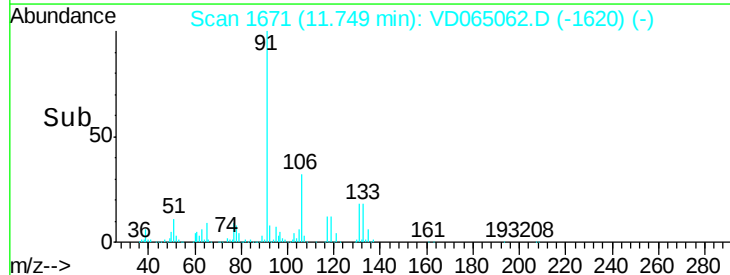
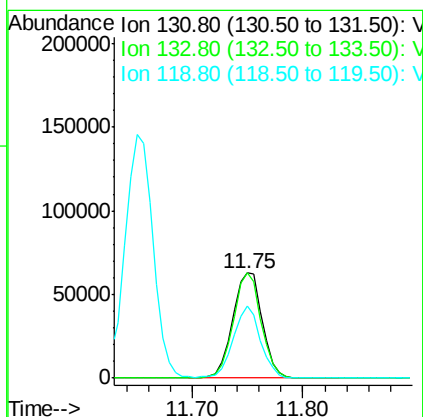
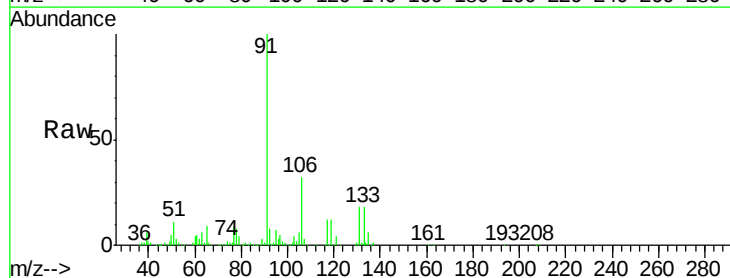
Manual Integrations
APPROVED

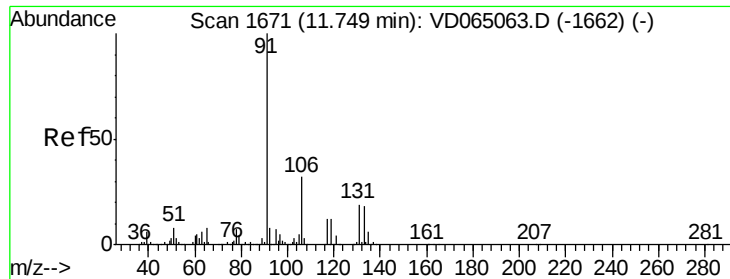
MMDadoda
2/6/2020 10:37:11 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.071 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.7	143.1
119	63.8	31.3	93.8





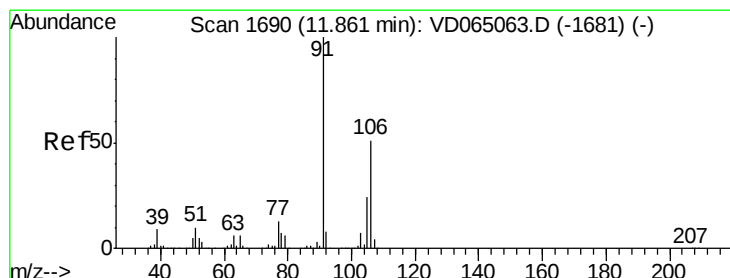
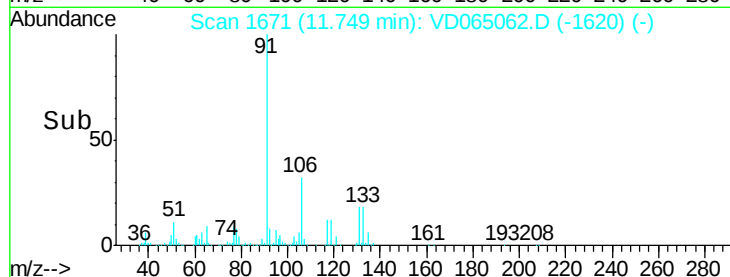
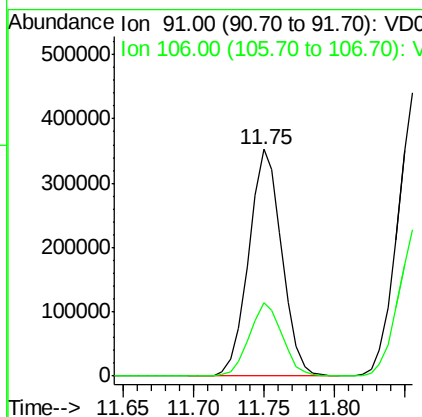
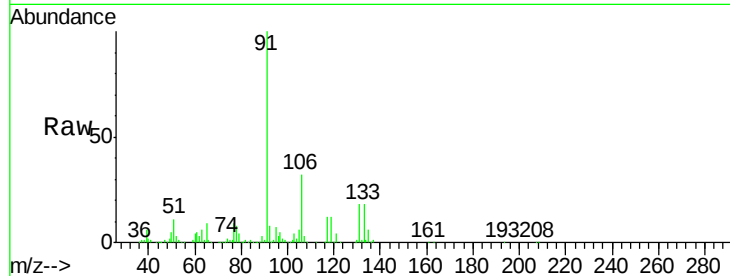
#67
Ethyl Benzene
Concen: 19.752 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.4	38.2

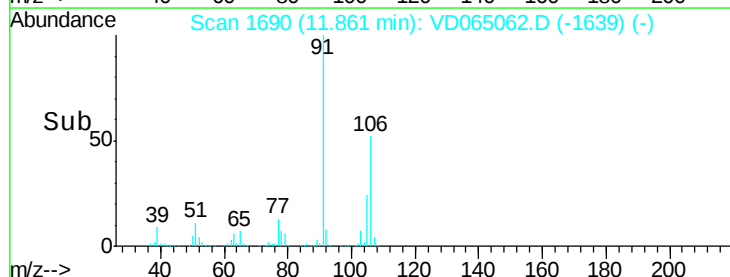
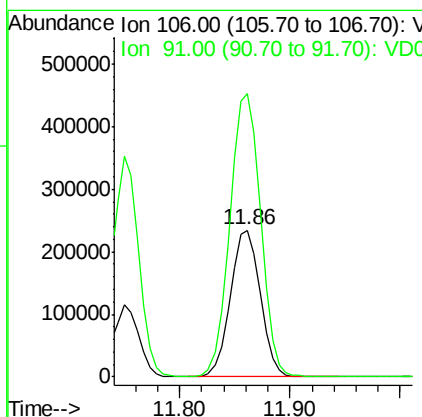
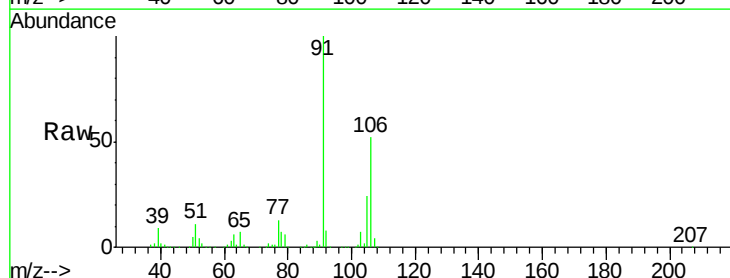
Manual Integrations
APPROVED

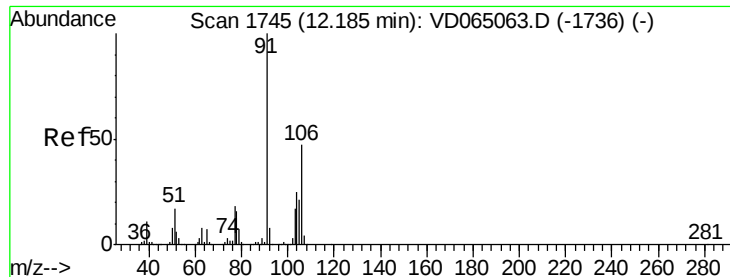
MMDadoda
2/6/2020 10:37:11 AM



#68
m/p-Xylenes
Concen: 39.501 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
106	100		
91	199.1	158.9	238.3





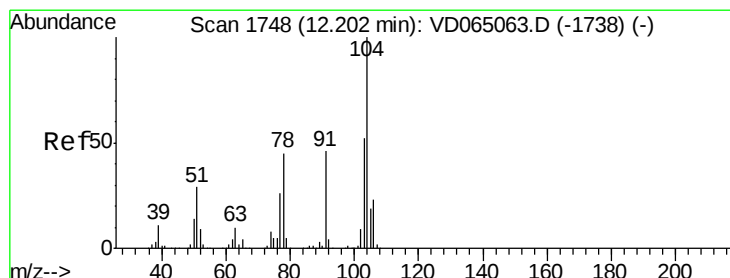
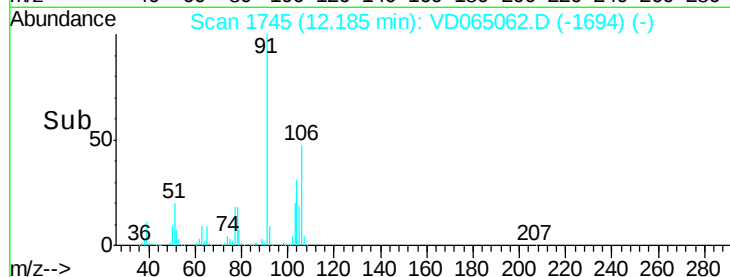
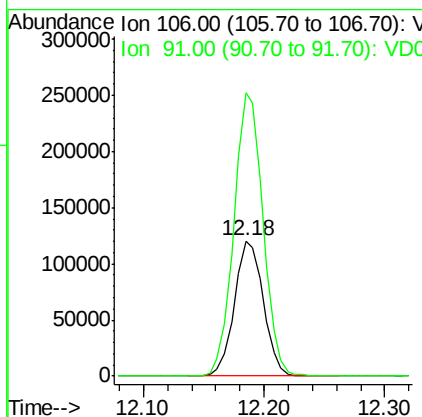
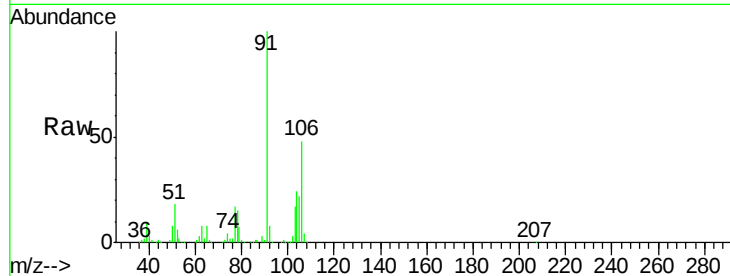
#69
o-Xylene
Concen: 19.996 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
201081	106	100		
	91	210.9	104.7	313.9

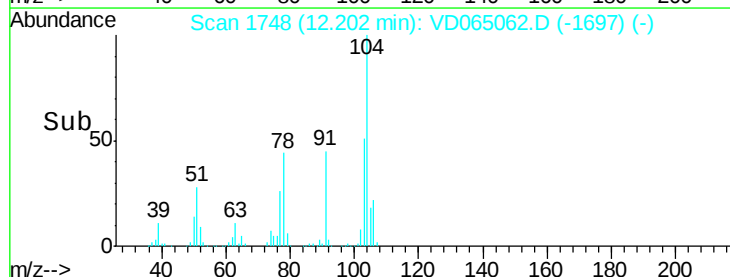
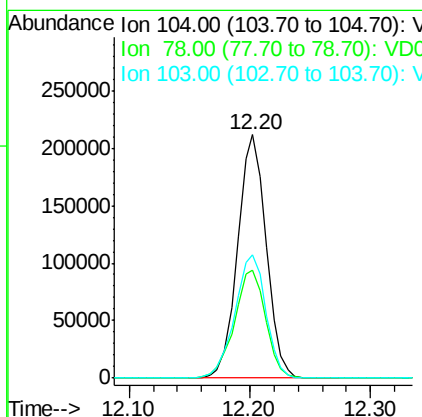
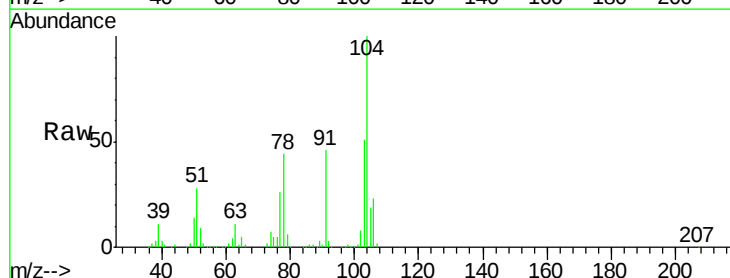
Manual Integrations
APPROVED

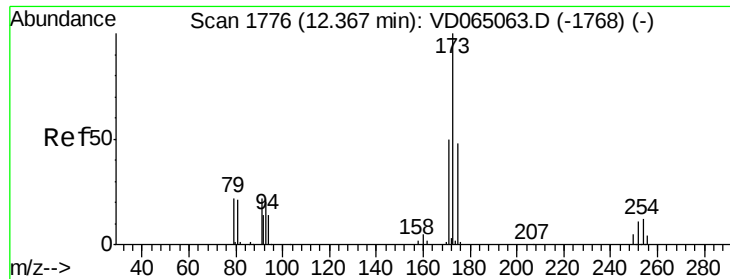
MMDadoda
2/6/2020 10:37:11 AM



#70
Styrene
Concen: 19.627 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ion	Ratio	Lower	Upper
349211	104	100		
	78	48.7	38.5	57.7
	103	55.1	43.8	65.8





#71

Bromoform

Concen: 19.035 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

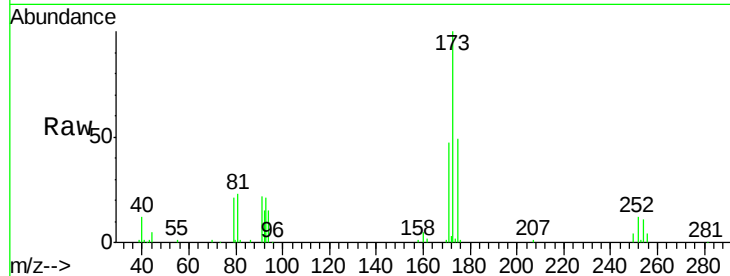
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.3	72.8
254	0.0	0.1	0.1#

Manual Integrations
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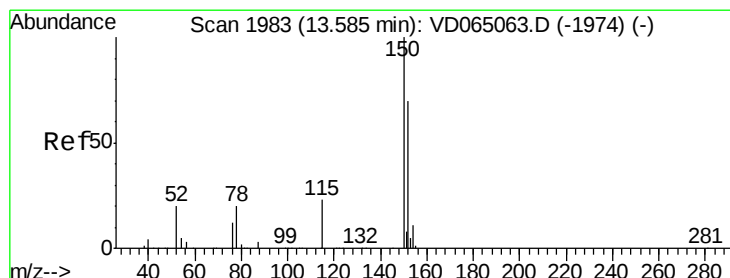
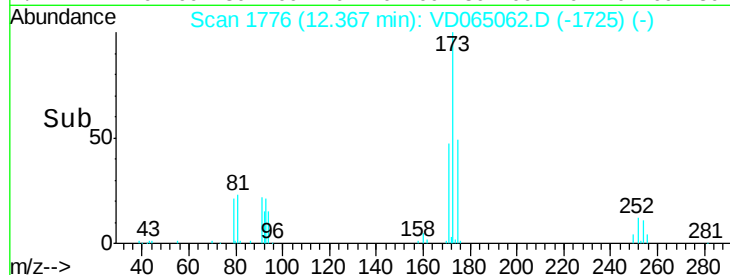
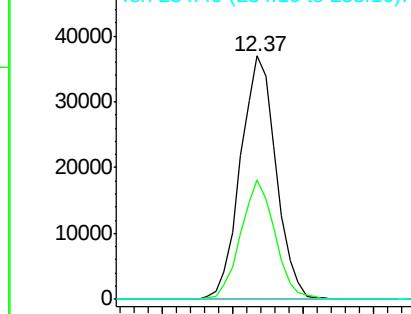
MMDadoda
2/6/2020 10:37:11 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

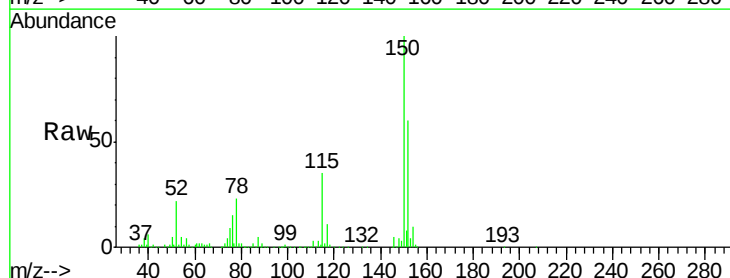
RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

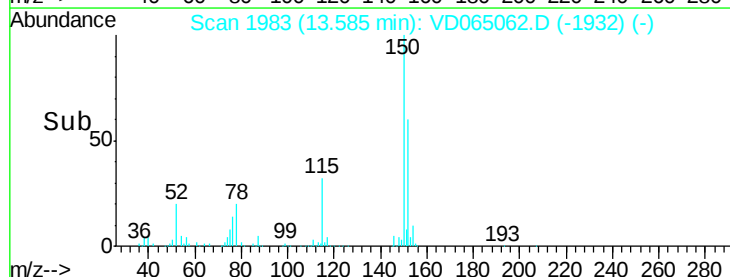
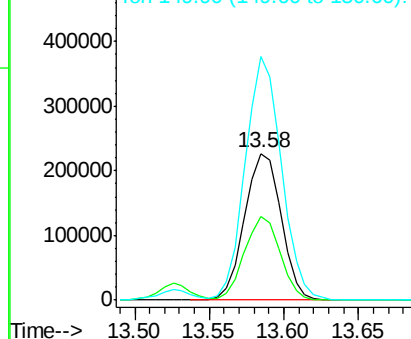
Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	27.5	82.4
150	165.7	0.0	343.2

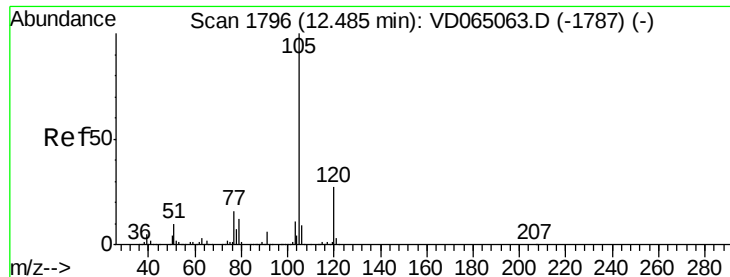


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.192 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 555758

Ion Ratio Lower Upper

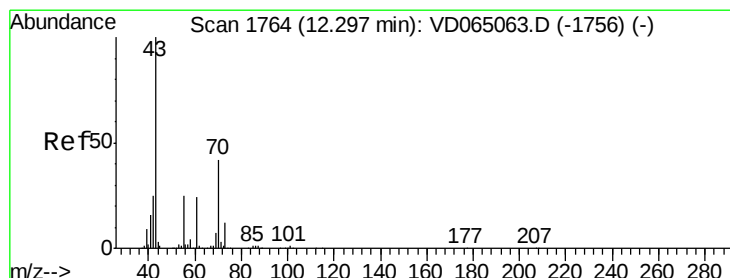
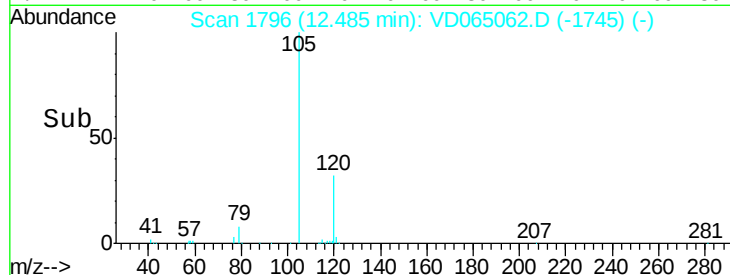
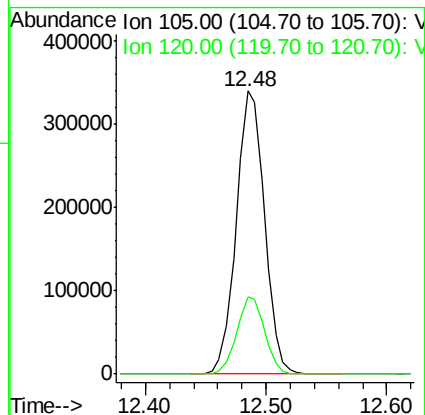
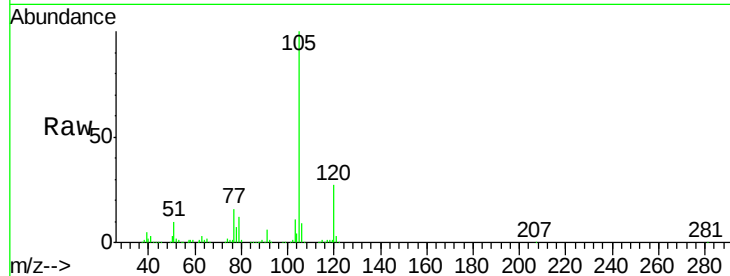
105 100

120 26.9 13.3 39.9

Manual Integrations
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2/6/2020 10:37:11 AM



#74

N-ethyl acetate

Concen: 20.542 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion: 43 Resp: 119837

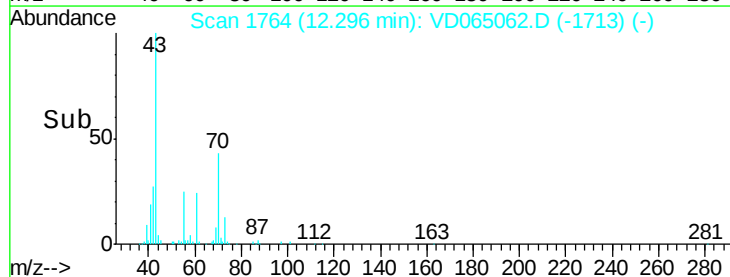
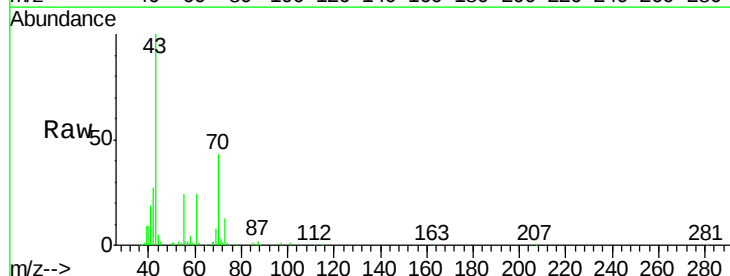
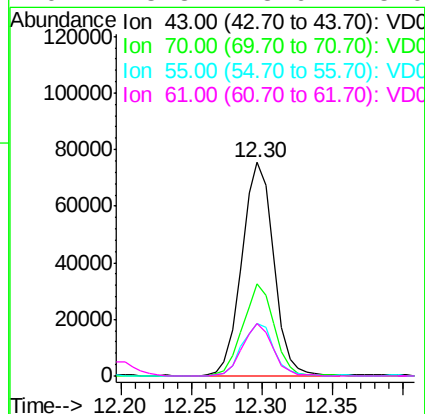
Ion Ratio Lower Upper

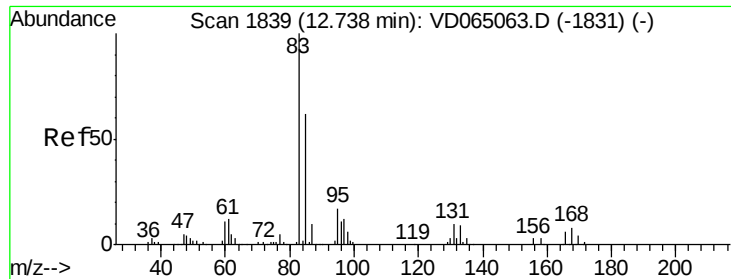
43 100

70 42.0 33.5 50.3

55 24.7 19.4 29.2

61 23.3 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.251 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

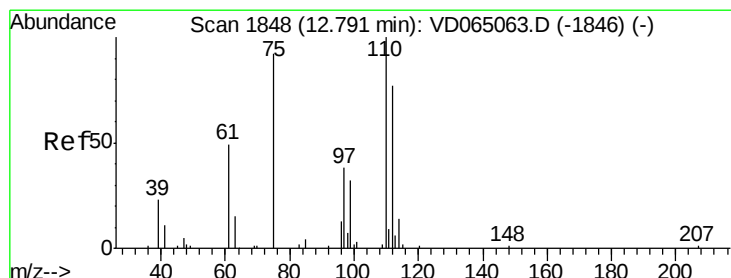
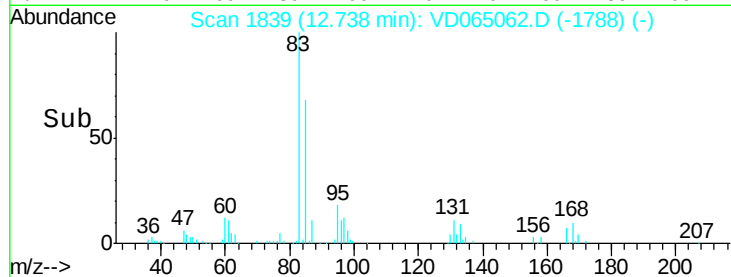
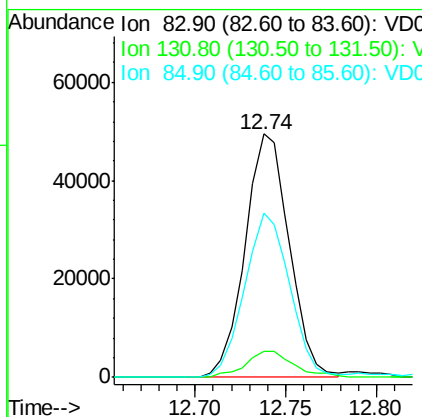
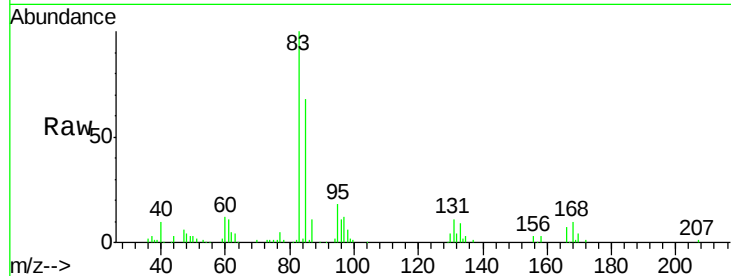
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	83977
Ion	Ratio	Lower	Upper
83	100		
131	11.7	5.5	16.4
85	68.9	31.8	95.4

Manual Integrations
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2/6/2020 10:37:11 AM



#76

1,2,3-Trichloropropane

Concen: 20.528 ug/l m

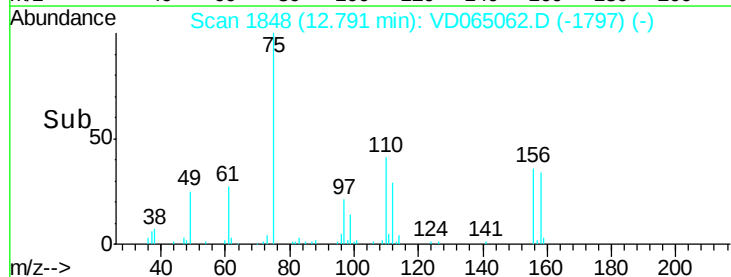
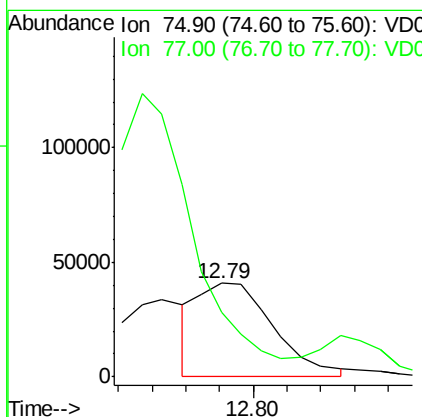
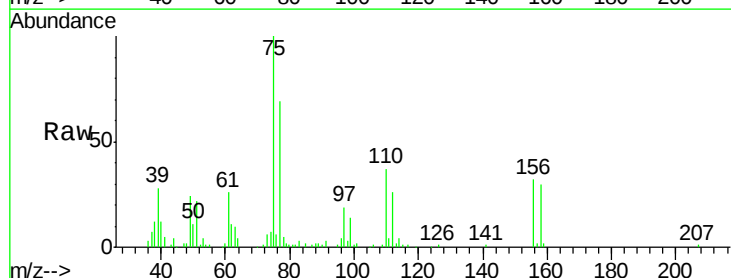
RT: 12.79 min Scan# 1848

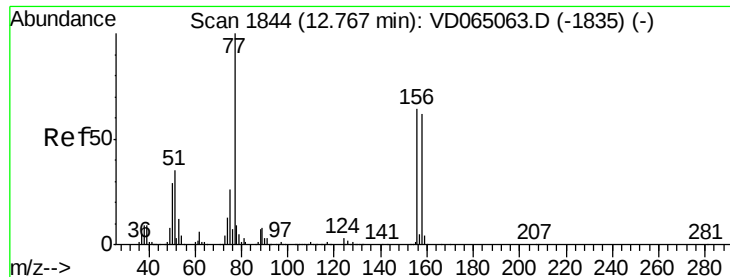
Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion:	75	Resp:	63558
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.922 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

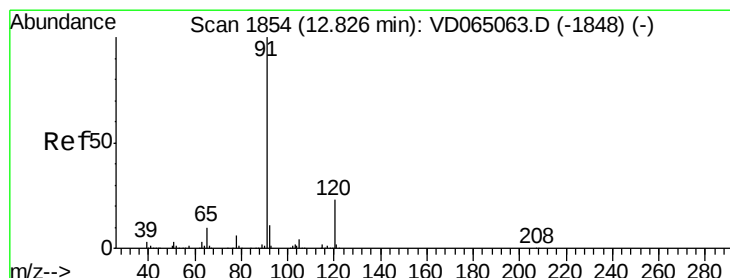
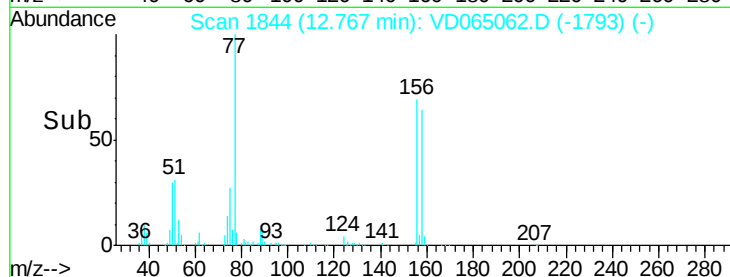
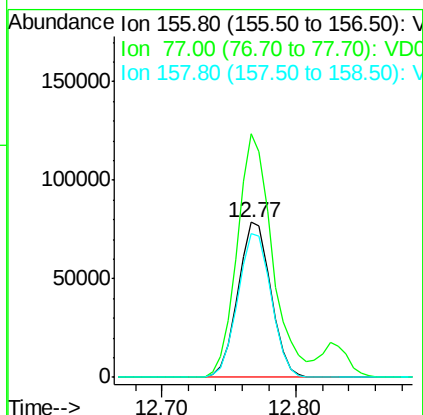
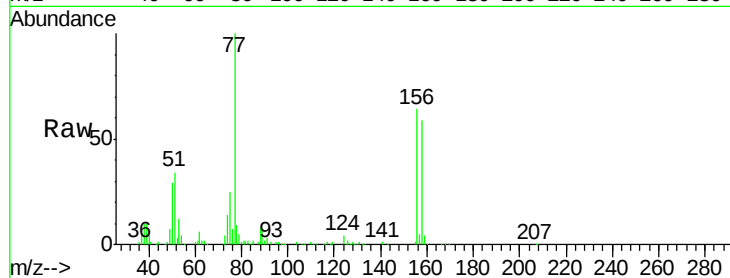
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	133859
Ion Ratio	Lower	Upper	
156	100		
77	167.8	85.6	256.8
158	94.3	47.4	142.2

Manual Integrations
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2/6/2020 10:37:11 AM



#78

n-propylbenzene

Concen: 20.847 ug/l

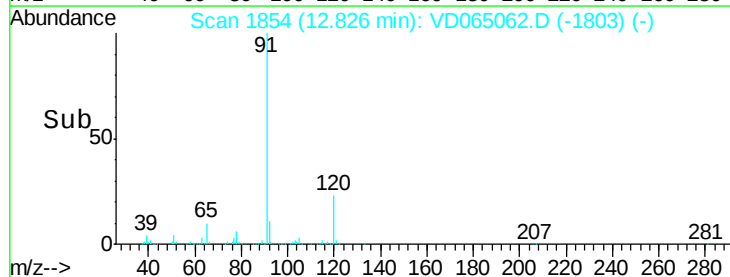
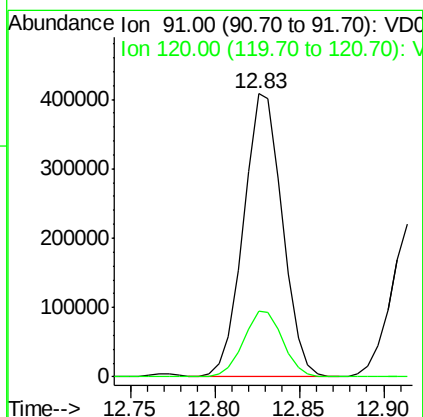
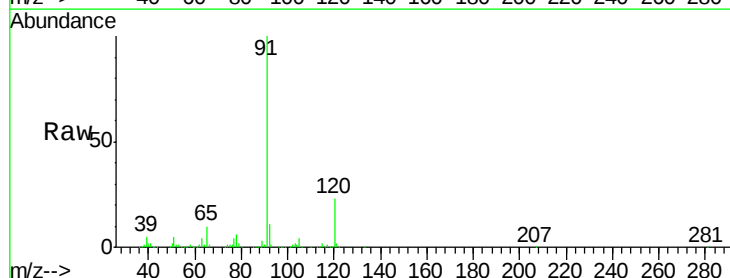
RT: 12.83 min Scan# 1854

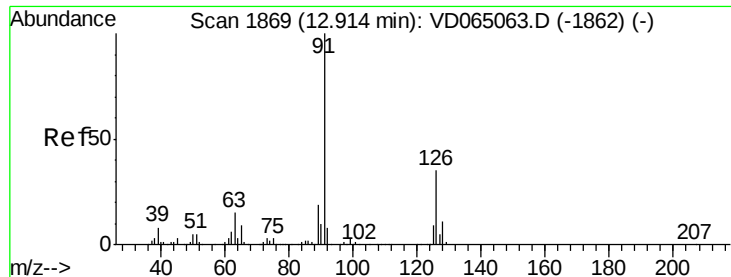
Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Tgt Ion:	91	Resp:	649581
Ion Ratio	Lower	Upper	
91	100		
120	23.9	11.8	35.3





#79

2-Chlorotoluene

Concen: 21.205 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD065062.D

Acq: 05 Feb 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 363119

Ion Ratio Lower Upper

91 100

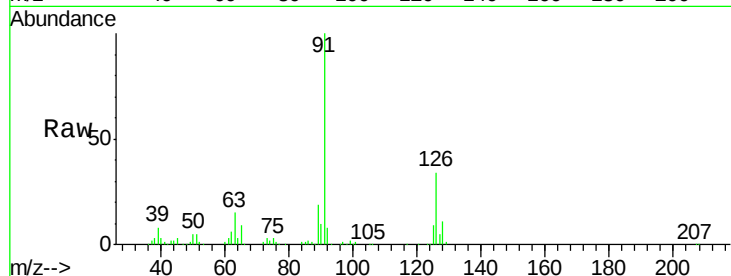
126 34.1 17.4 52.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VD065063.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD065063.D (-1862) (-)

300000

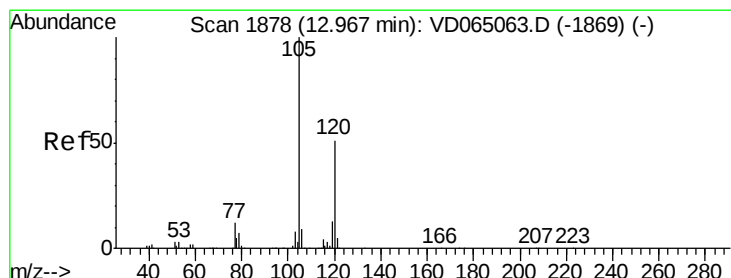
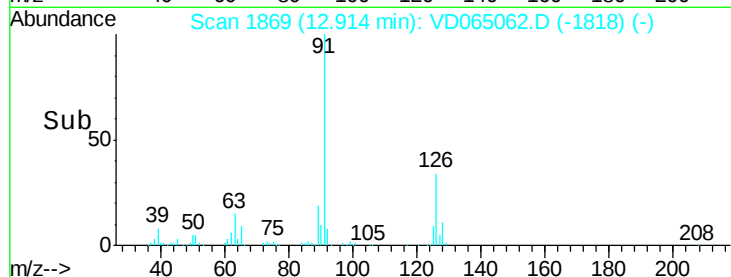
200000

100000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.028 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065062.D

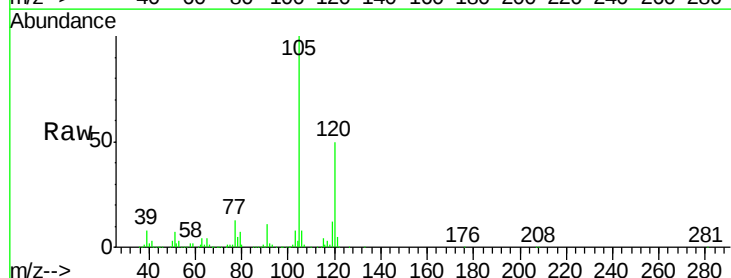
Acq: 05 Feb 2020 12:59

Tgt Ion: 105 Resp: 451742

Ion Ratio Lower Upper

105 100

120 50.0 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): VD065063.D (-1869) (-)

Ion 120.00 (119.70 to 120.70): VD065063.D (-1869) (-)

300000

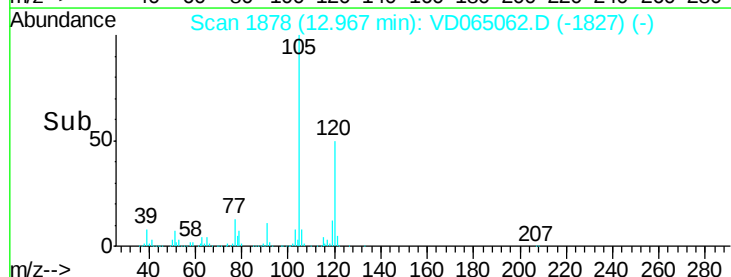
200000

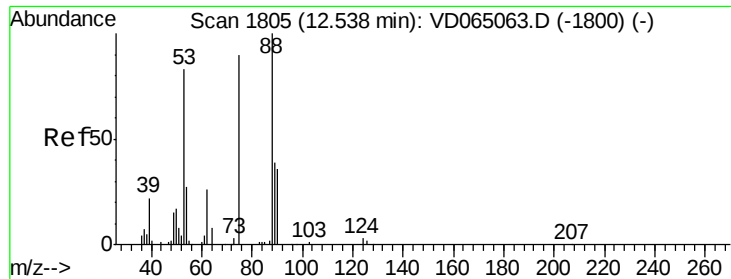
100000

0

12.90 13.00

Time-->





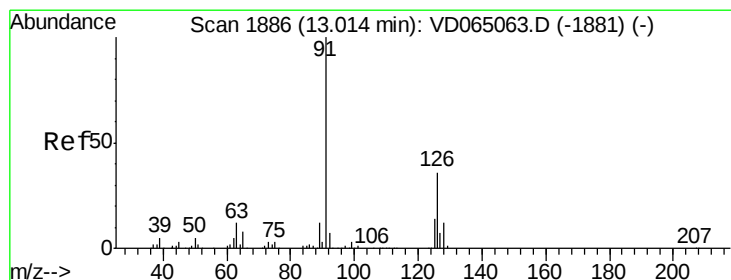
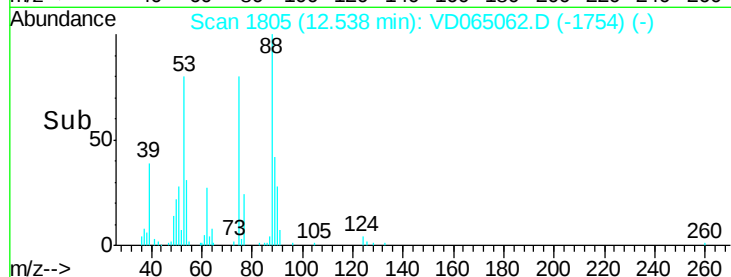
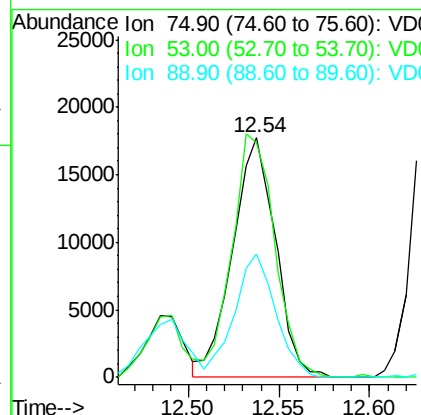
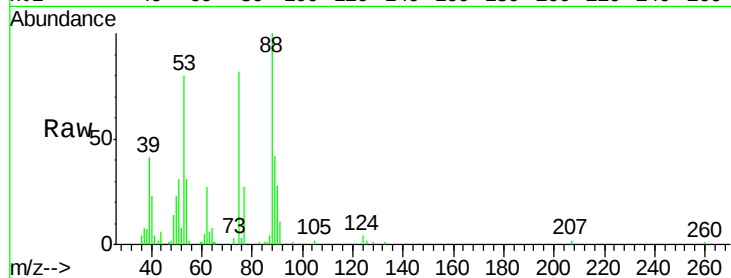
#81
trans-1,4-Dichloro-2-butene
Concen: 19.613 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.7	78.5	117.7
89	49.5	37.0	55.4

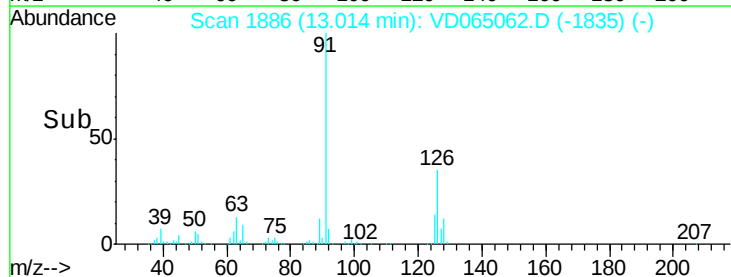
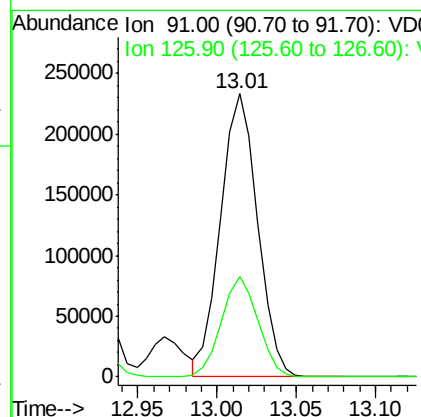
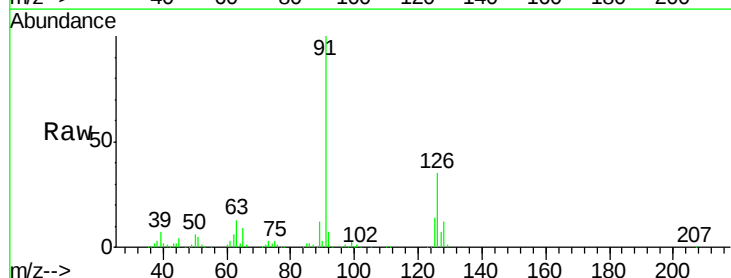
Manual Integrations
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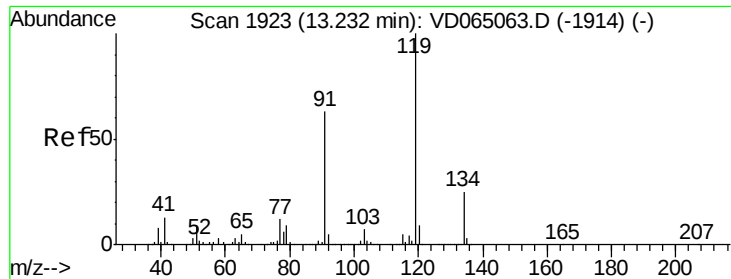
MMDadoda
2/6/2020 10:37:11 AM



#82
4-Chlorotoluene
Concen: 20.852 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.5	52.5





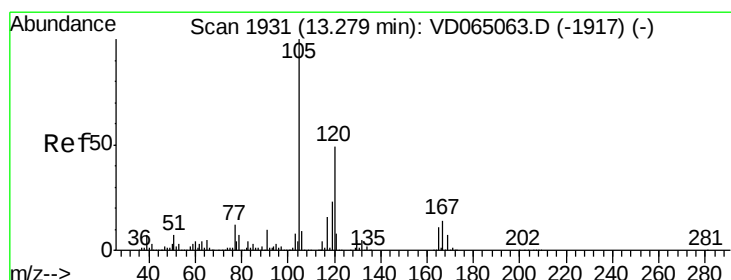
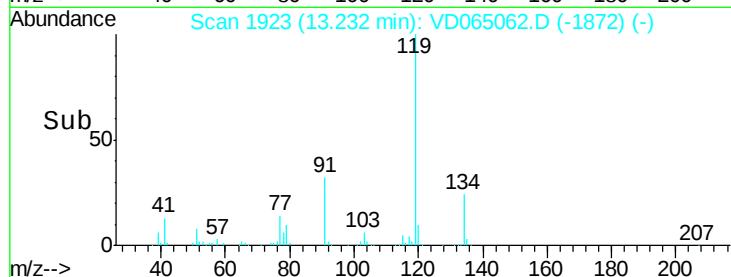
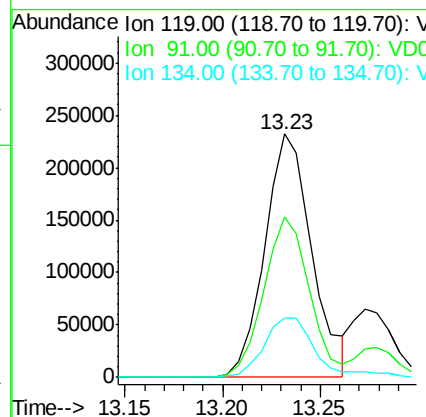
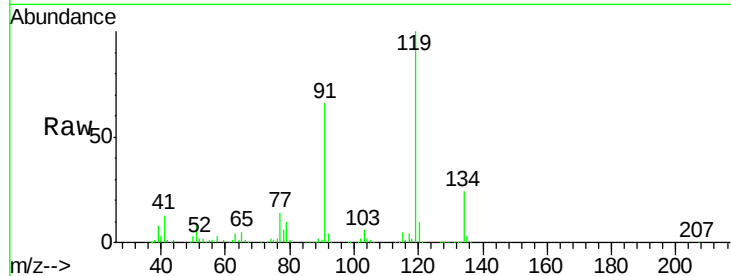
#83
tert-Butylbenzene
Concen: 21.323 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	388272		
91	63.9		32.3	96.9
134	27.0		13.8	41.3

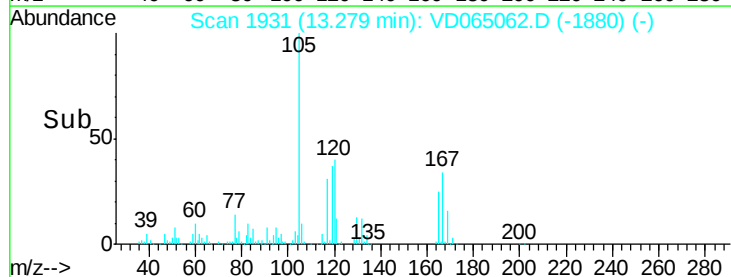
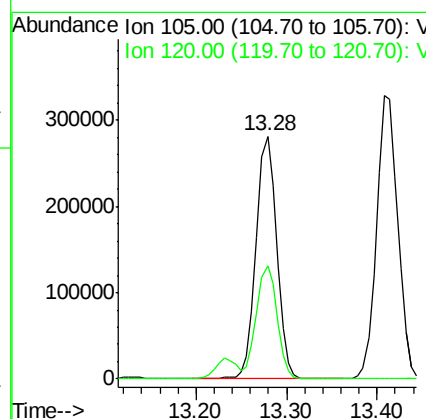
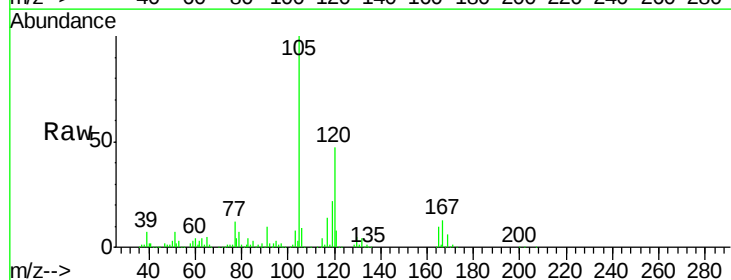
Manual Integrations
APPROVED

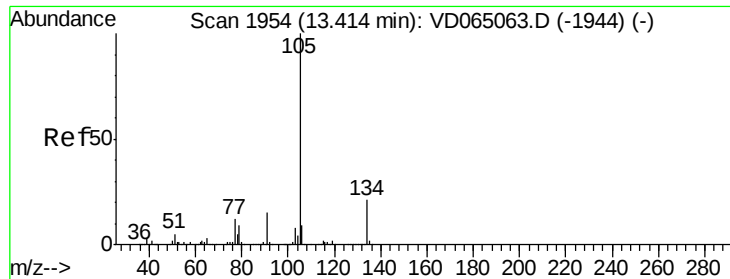
MMDadoda
2/6/2020 10:37:11 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.510 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	445005		
120	46.9		23.5	70.5





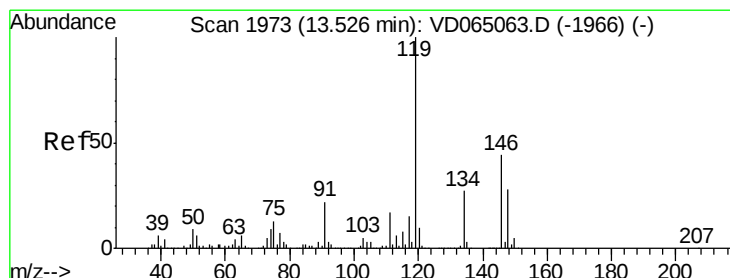
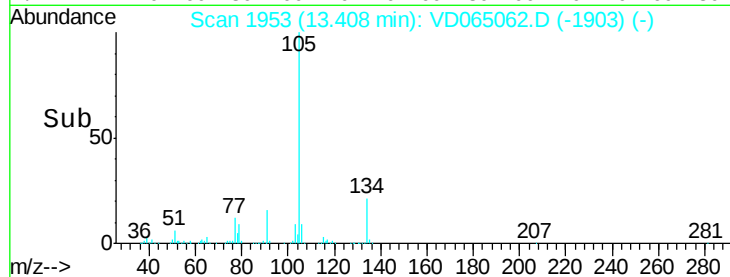
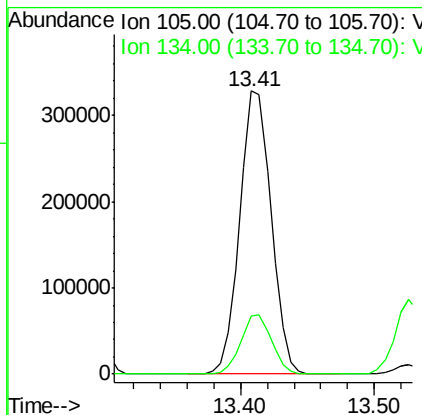
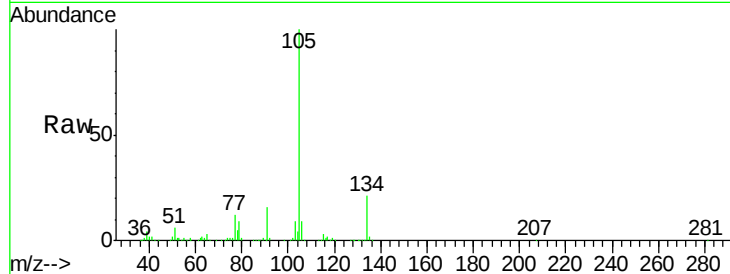
#85
 sec-Butylbenzene
 Concen: 20.652 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.4	31.1

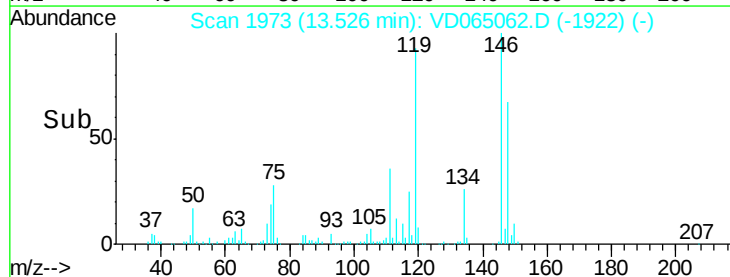
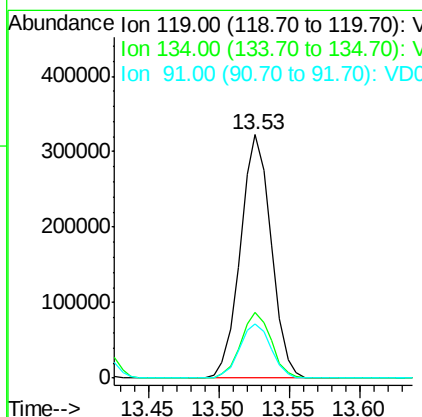
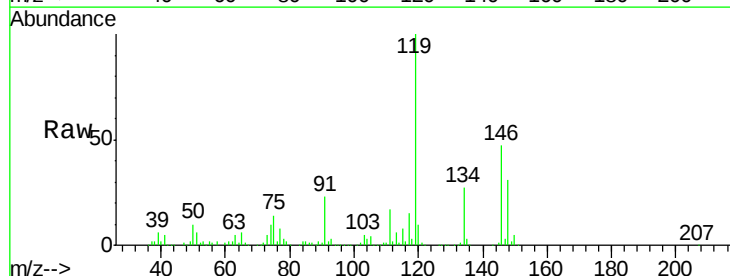
Manual Integrations
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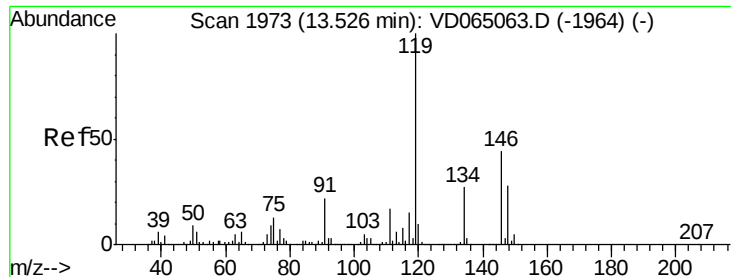
MMDadoda
 2/6/2020 10:37:11 AM



#86
 p-Isopropyltoluene
 Concen: 20.420 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.5	40.5
91	22.7	11.3	33.9





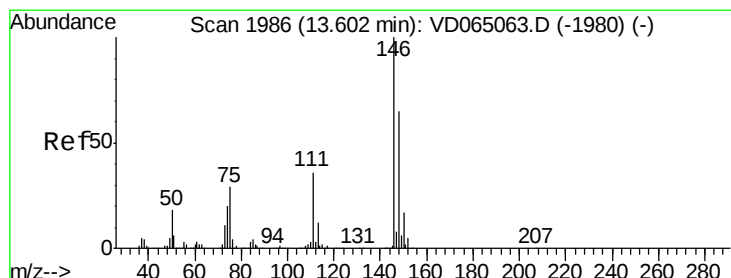
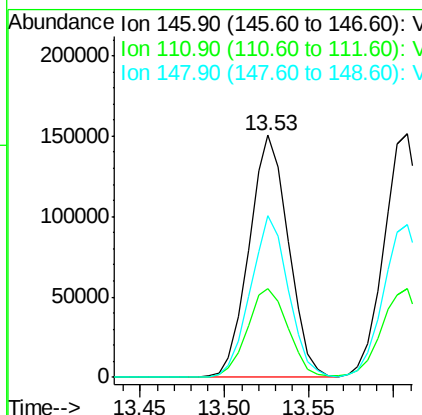
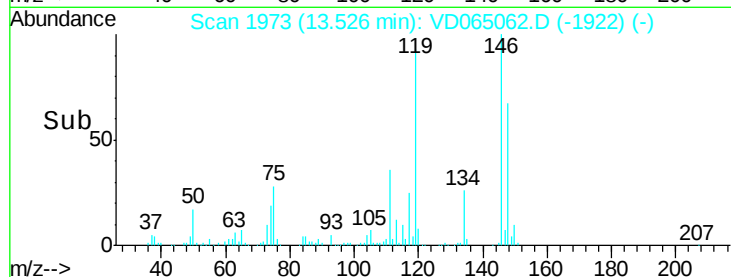
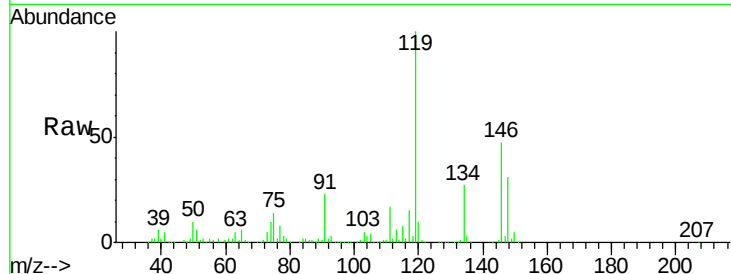
#87
 1,3-Dichlorobenzene
 Concen: 19.867 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.4	58.4
148	64.8	32.3	96.8

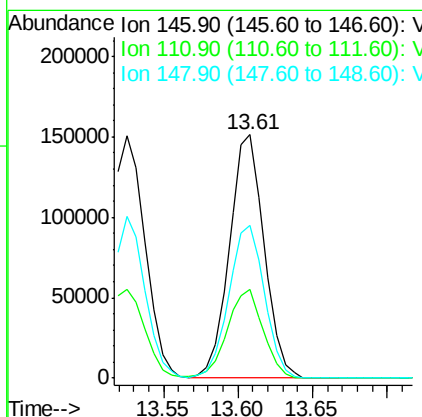
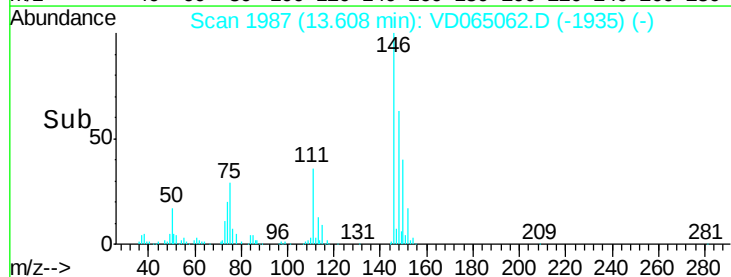
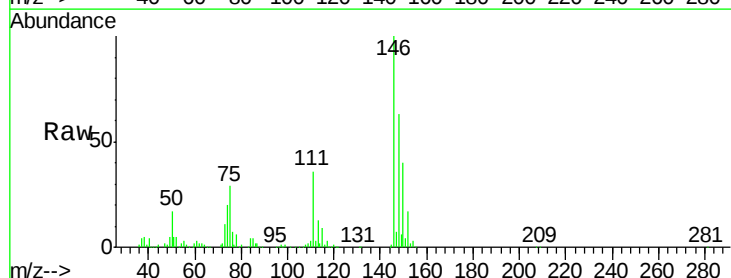
Manual Integrations
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#88
 1,4-Dichlorobenzene
 Concen: 20.234 ug/l
 RT: 13.61 min Scan# 1987
 Delta R.T. 0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.5	55.5
148	64.4	32.7	98.1





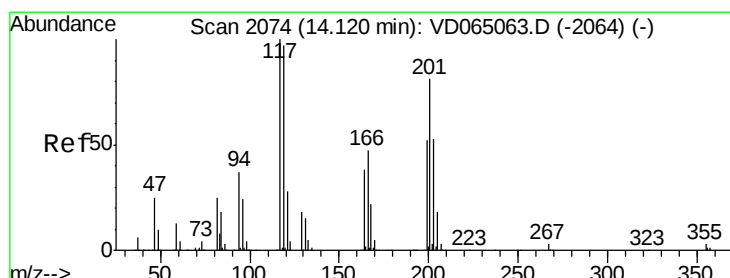
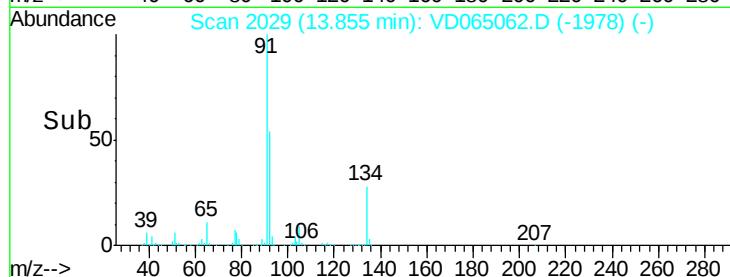
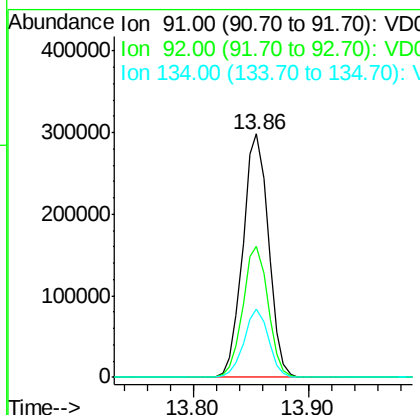
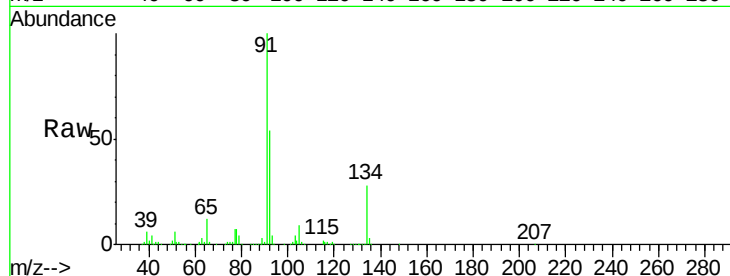
#89
n-Butylbenzene
Concen: 20.950 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.1
134	26.9	13.4	40.2

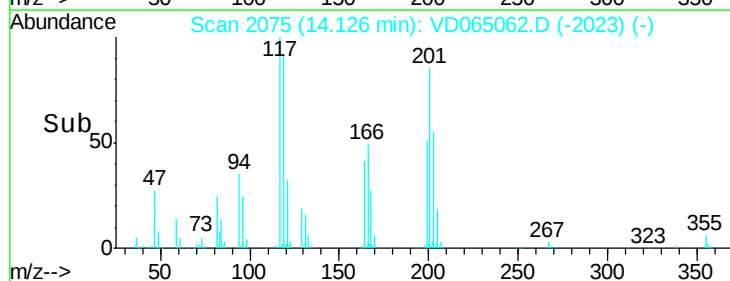
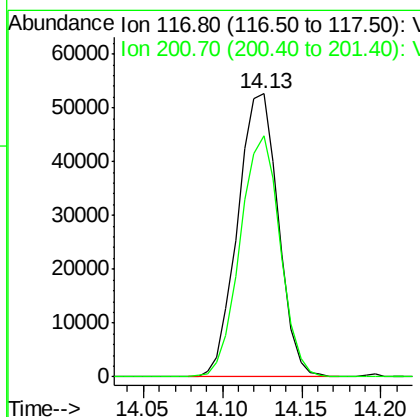
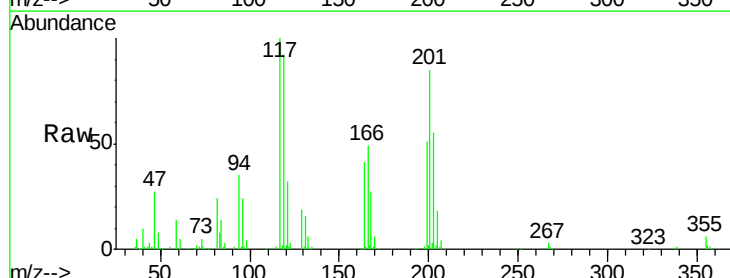
Manual Integrations
APPROVED

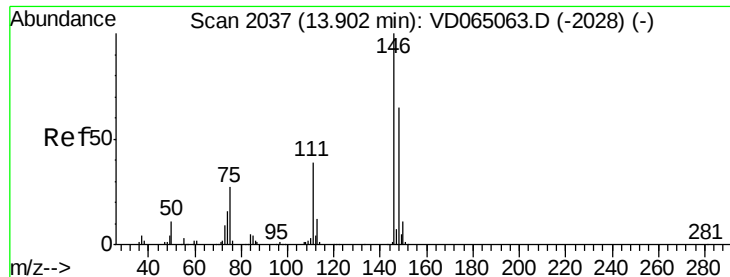
MMDadoda
2/6/2020 10:37:11 AM



#90
Hexachloroethane
Concen: 20.197 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.0	42.5	127.6





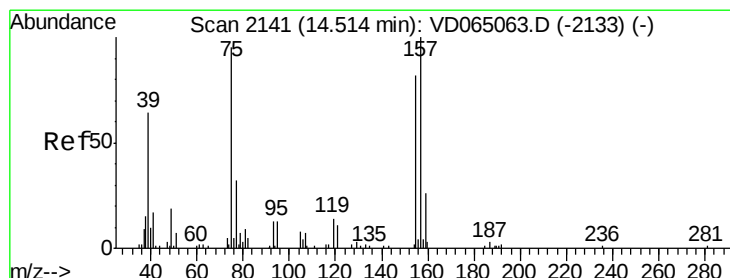
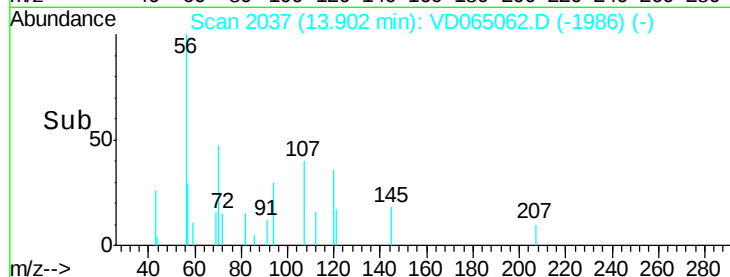
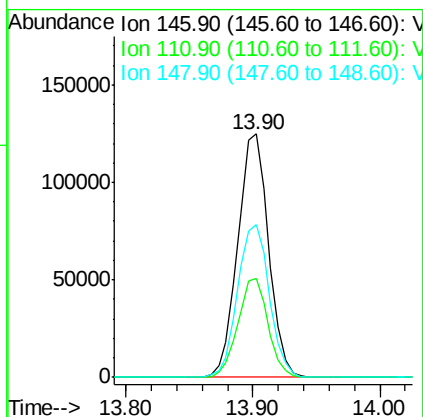
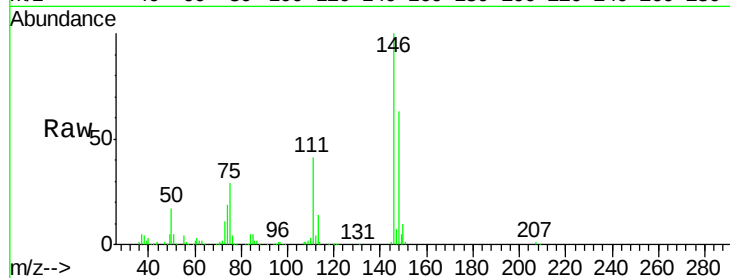
#91
 1,2-Dichlorobenzene
 Concen: 20.185 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.1
148	64.6	31.9	95.5

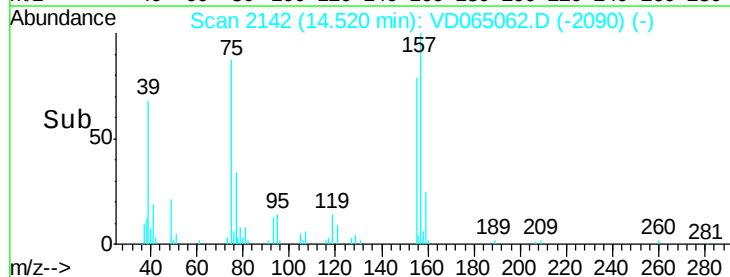
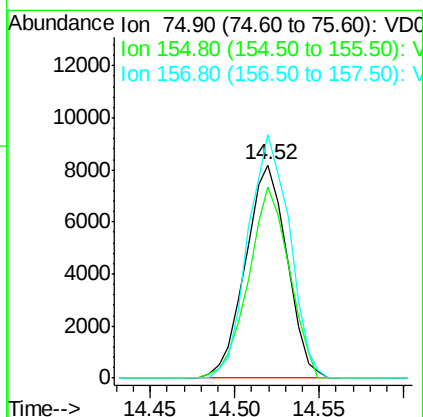
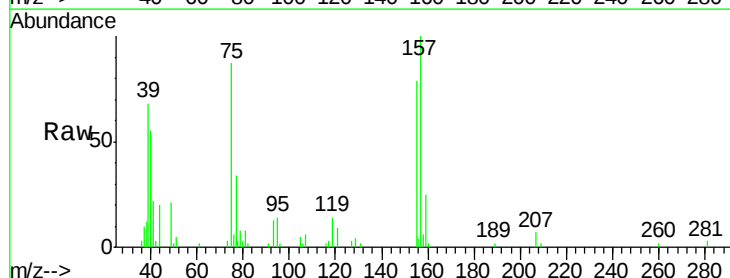
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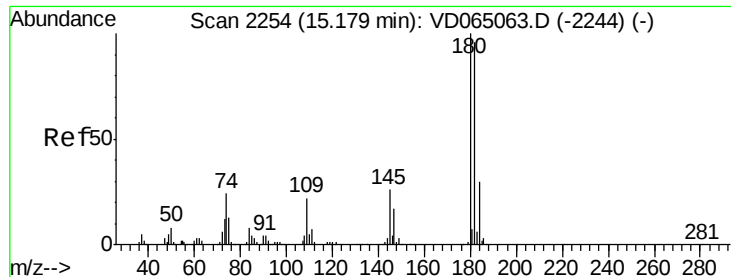
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.881 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.8	43.4	130.1
157	113.7	55.8	167.3





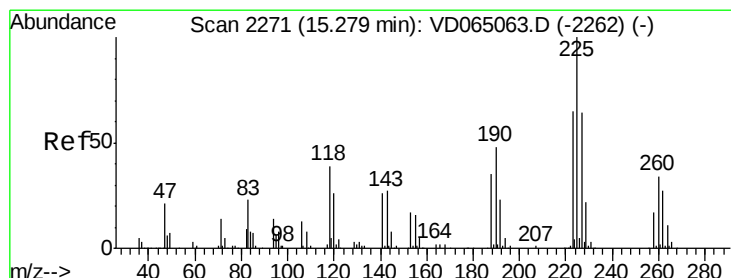
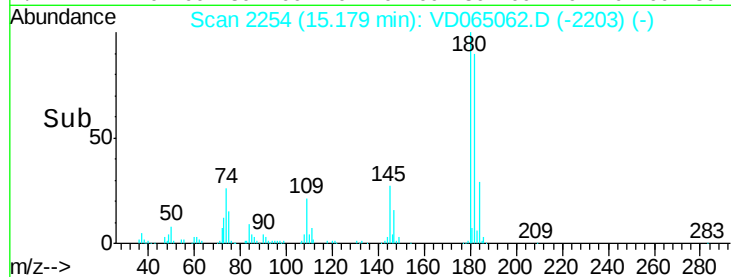
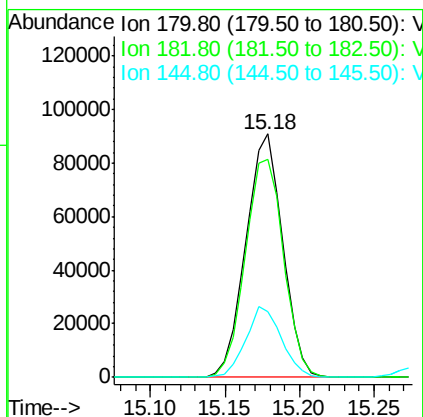
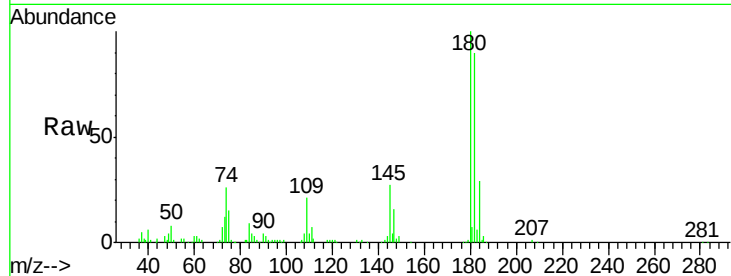
#93
 1,2,4-Trichlorobenzene
 Concen: 21.409 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. -0.00 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	154918		
182	93.3	47.4	142.3	
145	28.1	14.1	42.4	

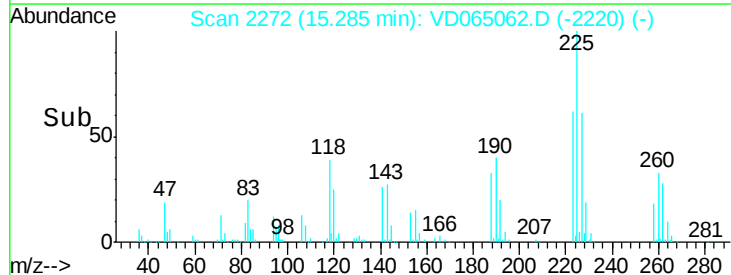
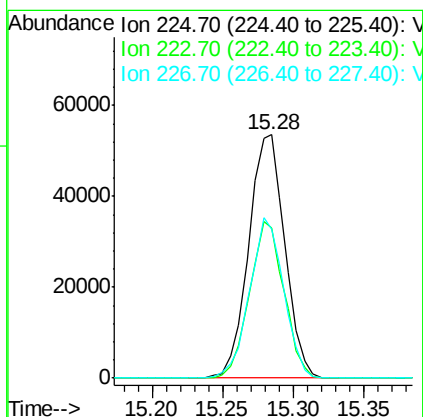
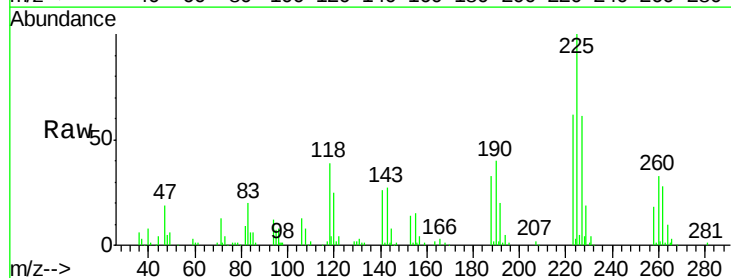
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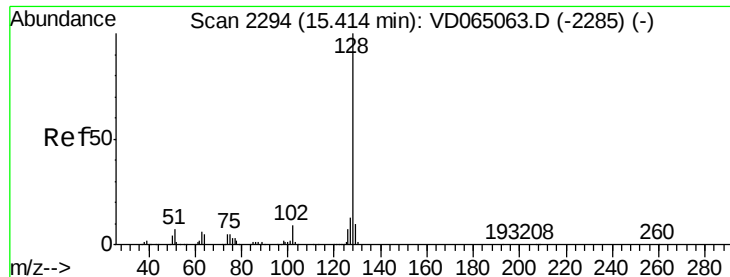
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#94
 Hexachlorobutadiene
 Concen: 21.026 ug/l
 RT: 15.28 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VD065062.D
 Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96240		
223	61.1	31.4	94.0	
227	62.1	31.8	95.3	





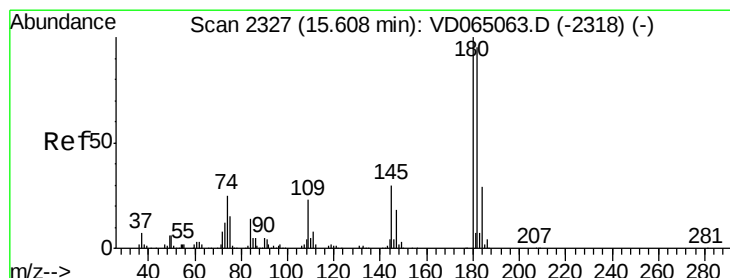
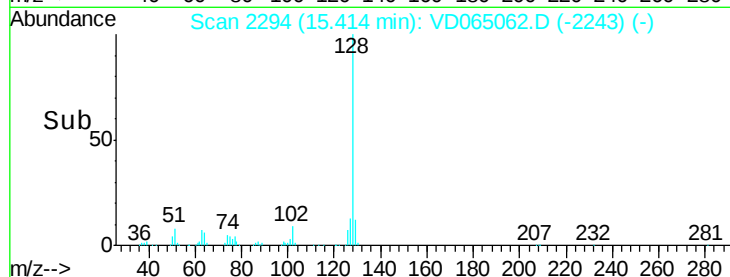
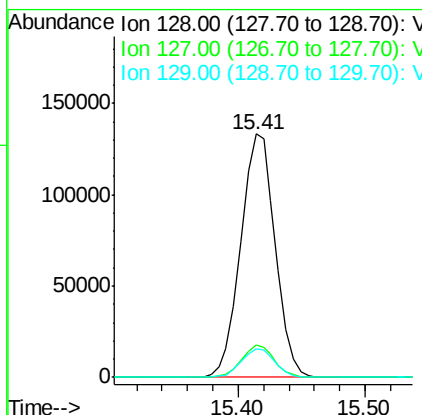
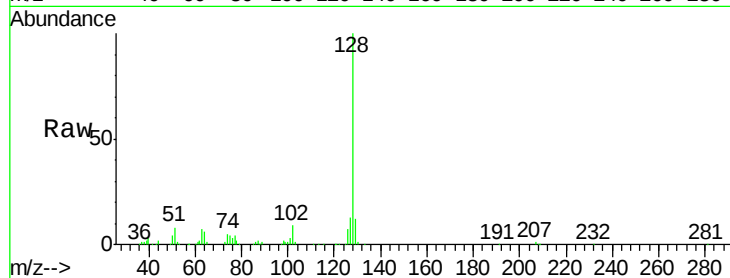
#95
Naphthalene
Concen: 21.554 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	250668		
127	12.6		10.6	15.8
129	11.3		8.7	13.1

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 21.036 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. -0.00 min
Lab File: VD065062.D
Acq: 05 Feb 2020 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	130848		
182	95.1		47.1	141.4
145	30.1		14.9	44.9

