

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102319\
 Data File : VD064019.D
 Acq On : 23 Oct 2019 14:26
 Operator : VA/SY
 Sample : VD1023SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Manual Integrations
 APPROVED

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 10/24/2019 4:53:20 PM

Quant Time: Oct 24 06:37:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	163881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	253125	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	248431	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	137628	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	79940	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
35) Dibromofluoromethane	7.92	113	85777	55.45	ug/l	0.00
Spiked Amount			Recovery	=	110.90%	
50) Toluene-d8	10.34	98	341708	54.42	ug/l	0.00
Spiked Amount			Recovery	=	108.84%	
62) 4-Bromofluorobenzene	12.64	95	114880	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	20956	18.031	ug/l #	70
3) Chloromethane	2.21	50	71120	20.028	ug/l	94
4) Vinyl Chloride	2.35	62	87837	23.384	ug/l	98
5) Bromomethane	2.76	94	53988	22.356	ug/l	98
6) Chloroethane	2.91	64	55457	22.324	ug/l	96
7) Trichlorofluoromethane	3.27	101	119791	24.121	ug/l	98
8) Diethyl Ether	3.70	74	17352	21.768	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.08	101	29408	21.392	ug/l	98
10) Methyl Iodide	4.29	142	31975	16.880	ug/l	100
11) Tert butyl alcohol	5.24	59	8956	75.191	ug/l #	71
12) 1,1-Dichloroethene	4.05	96	27712	20.177	ug/l #	78
13) Acrolein	3.91	56	11823	82.968	ug/l #	17
14) Allyl chloride	4.71	41	46582	20.400	ug/l	98
15) Acrylonitrile	5.43	53	38005	108.140	ug/l	99
16) Acetone	4.17	43	40335	97.100	ug/l	97
17) Carbon Disulfide	4.40	76	87780	17.582	ug/l	99
18) Methyl Acetate	4.71	43	18526	22.802	ug/l #	88
19) Methyl tert-butyl Ether	5.47	73	67390	18.948	ug/l #	87
20) Methylene Chloride	4.96	84	39072	19.353	ug/l	86
21) trans-1,2-Dichloroethene	5.47	96	35179	20.575	ug/l #	84
22) Diisopropyl ether	6.37	45	97585	20.925	ug/l #	91
23) Vinyl Acetate	6.31	43	286367	103.222	ug/l	97
24) 1,1-Dichloroethane	6.27	63	59497	20.712	ug/l	96
25) 2-Butanone	7.23	43	48918	99.368	ug/l	97
26) 2,2-Dichloropropane	7.21	77	52557	20.226	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	40772	21.068	ug/l	98
28) Bromochloromethane	7.55	49	20428	19.872	ug/l	95
29) Tetrahydrofuran	7.57	42	29653	103.198	ug/l	96
30) Chloroform	7.71	83	65586	21.022	ug/l	90
31) Cyclohexane	7.98	56	59300	22.797	ug/l #	96
32) 1,1,1-Trichloroethane	7.91	97	61482	22.973	ug/l	97
36) 1,1-Dichloropropene	8.11	75	52256	22.579	ug/l	99
37) Ethyl Acetate	7.30	43	20094	19.195	ug/l #	90
38) Carbon Tetrachloride	8.10	117	51228	21.904	ug/l #	82

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	64461	22.652	ug/l	87
40) Benzene	8.35	78	148634	22.410	ug/l	93
41) Methacrylonitrile	7.53	41	10213	19.033	ug/l	95
42) 1,2-Dichloroethane	8.43	62	40326	21.019	ug/l	98
43) Isopropyl Acetate	8.46	43	38903	20.044	ug/l	98
44) Trichloroethene	9.11	130	41990	21.955	ug/l	85
45) 1,2-Dichloropropane	9.39	63	35977	22.162	ug/l	97
46) Dibromomethane	9.48	93	20147	21.792	ug/l	98
47) Bromodichloromethane	9.67	83	51629	21.690	ug/l #	94
48) Methyl methacrylate	9.46	41	17916	19.265	ug/l	88
49) 1,4-Dioxane	9.47	88	4604	364.826	ug/l #	87
51) 4-Methyl-2-Pentanone	10.24	43	103712	103.031	ug/l	99
52) Toluene	10.40	92	98922	21.727	ug/l	97
53) t-1,3-Dichloropropene	10.63	75	49526	21.322	ug/l	90
54) cis-1,3-Dichloropropene	10.09	75	58447	21.860	ug/l #	85
55) 1,1,2-Trichloroethane	10.81	97	30440	23.319	ug/l	92
56) Ethyl methacrylate	10.67	69	33883	20.497	ug/l	97
57) 1,3-Dichloropropane	10.95	76	48293	21.622	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	70573	99.320	ug/l	99
59) 2-Hexanone	10.99	43	75285	103.392	ug/l	100
60) Dibromochloromethane	11.14	129	36229	21.318	ug/l	97
61) 1,2-Dibromoethane	11.25	107	28823	22.775	ug/l	100
64) Tetrachloroethene	10.88	164	37367	22.033	ug/l	95
65) Chlorobenzene	11.67	112	112804	22.610	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	41250	22.438	ug/l	94
67) Ethyl Benzene	11.75	91	200902	22.331	ug/l	99
68) m/p-Xylenes	11.86	106	156336	45.022	ug/l	99
69) o-Xylene	12.18	106	73431	22.084	ug/l	99
70) Styrene	12.20	104	125097	22.225	ug/l	99
71) Bromoform	12.36	173	22061	22.360	ug/l #	99
73) Isopropylbenzene	12.48	105	202574	21.895	ug/l	99
74) N-amyl acetate	12.29	43	39388	19.773	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.74	83	36305	22.550	ug/l	96
76) 1,2,3-Trichloropropane	12.78	75	23981m	26.016	ug/l	
77) Bromobenzene	12.76	156	49466	21.460	ug/l	96
78) n-propylbenzene	12.83	91	241257	22.215	ug/l	99
79) 2-Chlorotoluene	12.91	91	130101	21.726	ug/l	97
80) 1,3,5-Trimethylbenzene	12.96	105	169364	21.942	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	10465	20.090	ug/l	97
82) 4-Chlorotoluene	13.01	91	135409	21.317	ug/l	98
83) tert-Butylbenzene	13.23	119	150630	21.927	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	169713	21.327	ug/l	100
85) sec-Butylbenzene	13.41	105	210231	22.661	ug/l	99
86) p-Isopropyltoluene	13.52	119	192560	21.935	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	98445	21.614	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	100003	22.256	ug/l	97
89) n-Butylbenzene	13.85	91	182912	22.385	ug/l	99
90) Hexachloroethane	14.11	117	34175	21.645	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	87314	22.245	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	5499	20.535	ug/l	94

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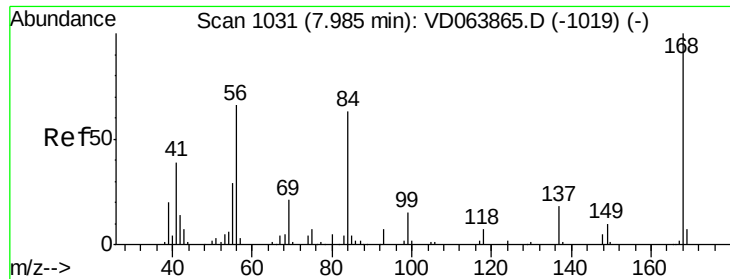
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	59125	19.522	ug/l	95
94) Hexachlorobutadiene	15.27	225	35138	21.025	ug/l	96
95) Naphthalene	15.41	128	102624	20.160	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	55082	21.080	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion:168 Resp: 163881

Ion Ratio Lower Upper

168 100

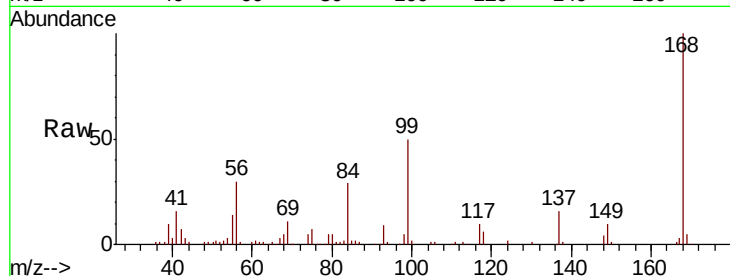
99 49.7 43.0 64.4

Manual Integrations

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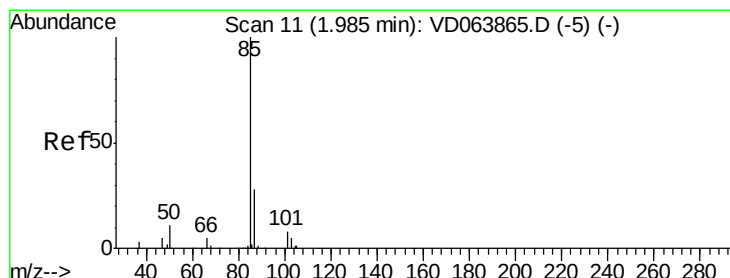
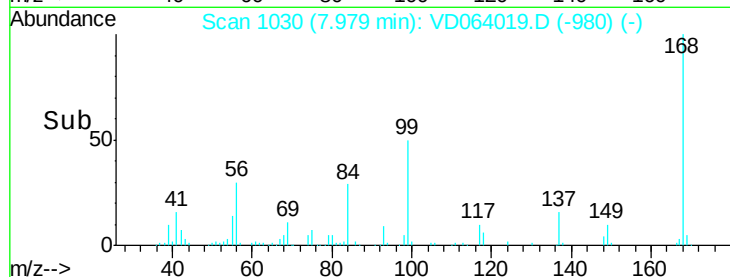
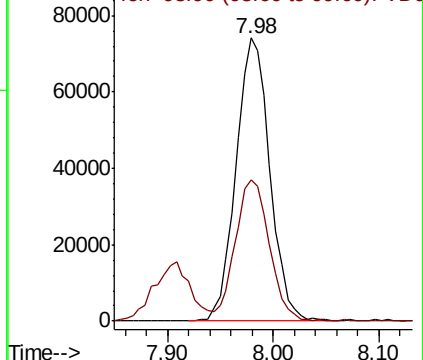
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 18.031 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD064019.D

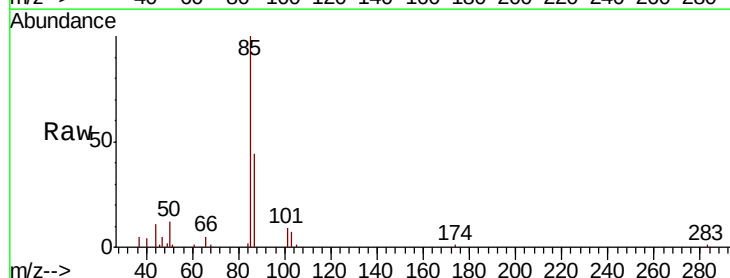
Acq: 23 Oct 2019 14:26

Tgt Ion: 85 Resp: 20956

Ion Ratio Lower Upper

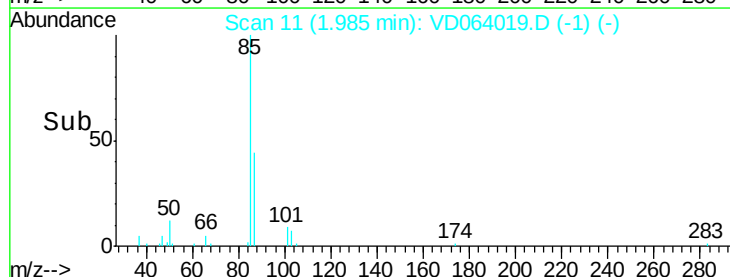
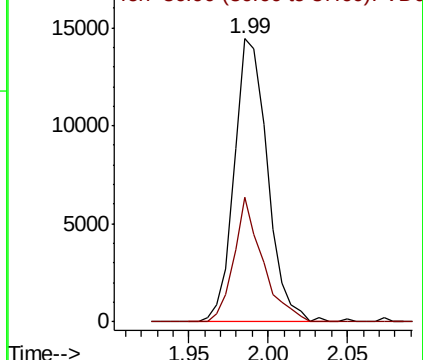
85 100

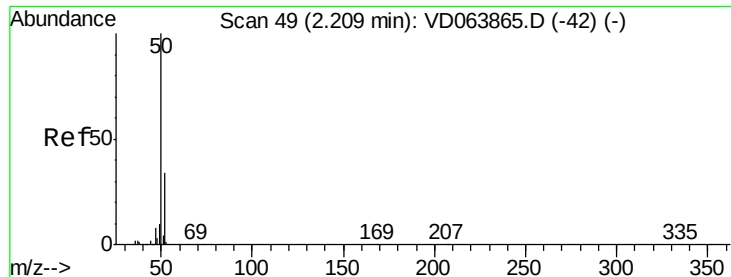
87 43.9 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.028 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 50 Resp: 71120

Ion Ratio Lower Upper

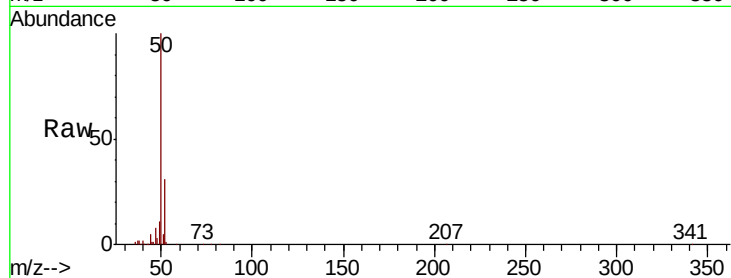
50 100

52 30.7 27.5 41.3

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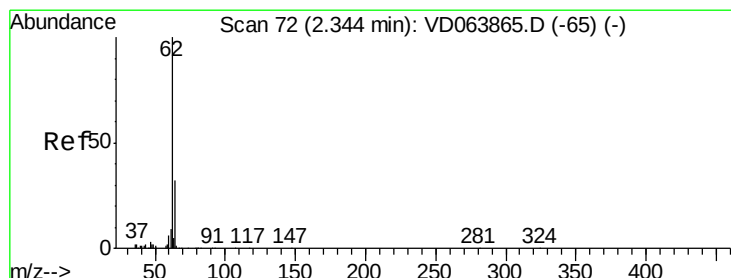
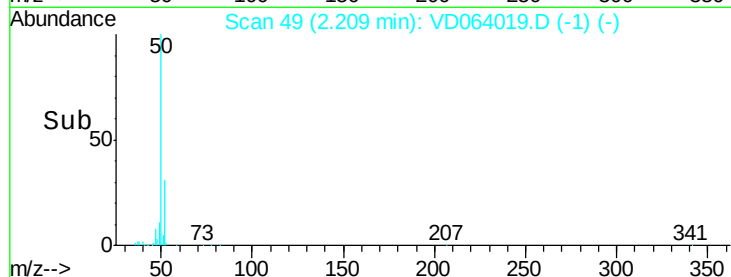
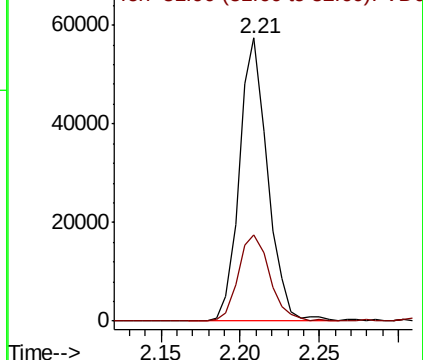
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 23.384 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD064019.D

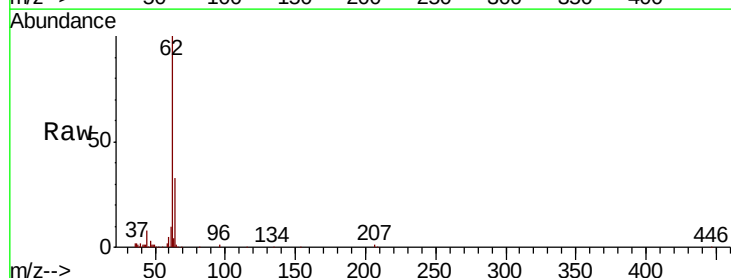
Acq: 23 Oct 2019 14:26

Tgt Ion: 62 Resp: 87837

Ion Ratio Lower Upper

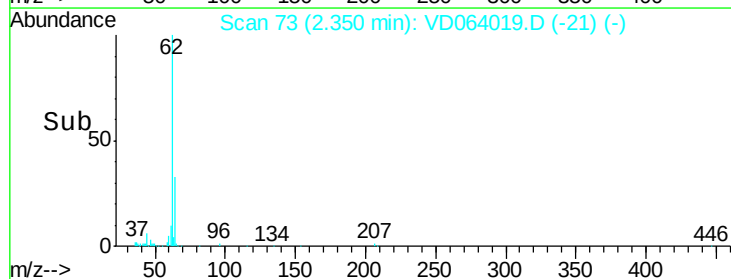
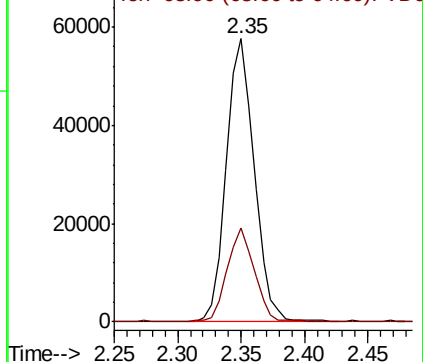
62 100

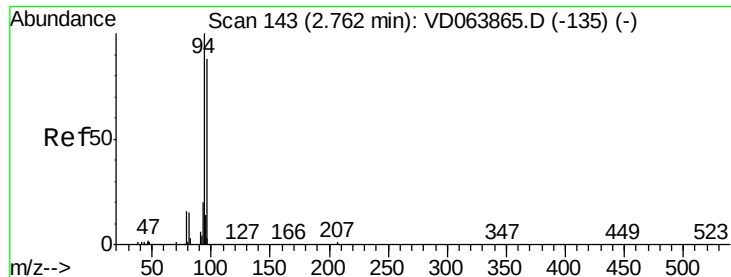
64 33.0 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 22.356 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 94 Resp: 53988

Ion Ratio Lower Upper

94 100

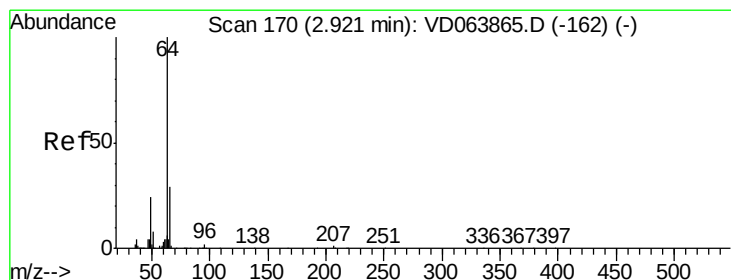
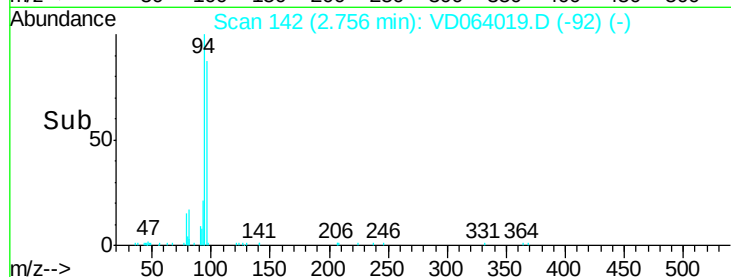
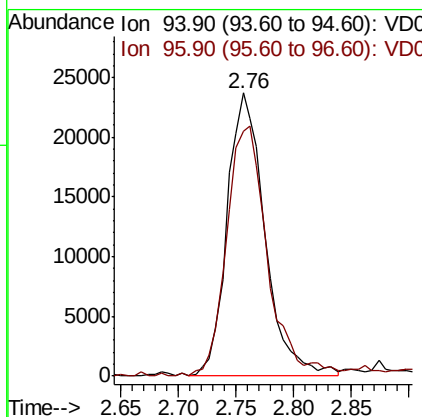
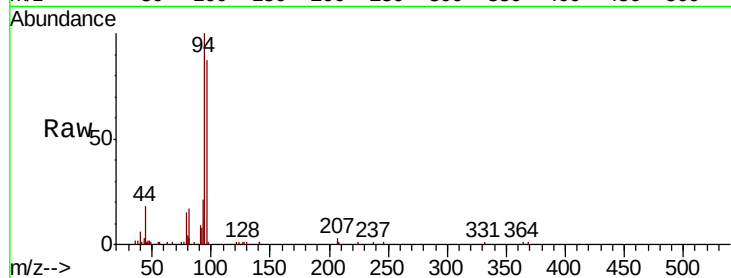
96 86.7 70.8 106.2

Manual Integrations

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#6

Chloroethane

Concen: 22.324 ug/l

RT: 2.91 min Scan# 169

Delta R.T. -0.01 min

Lab File: VD064019.D

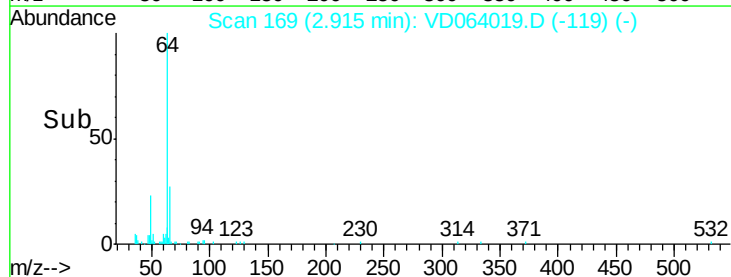
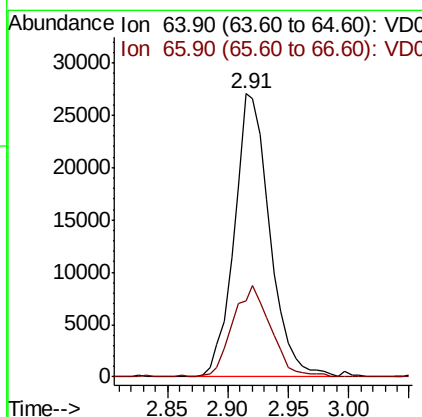
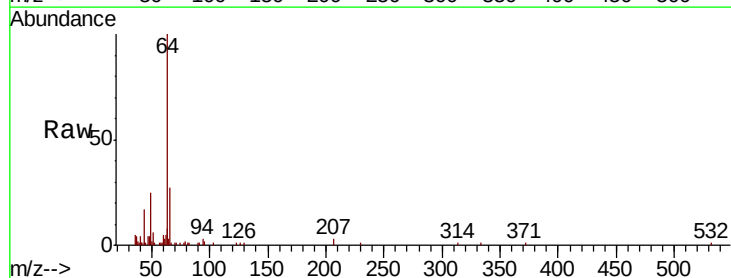
Acq: 23 Oct 2019 14:26

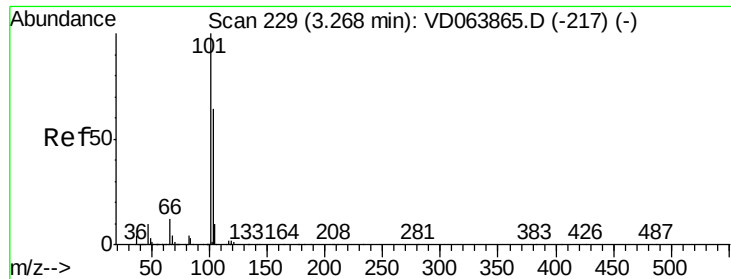
Tgt Ion: 64 Resp: 55457

Ion Ratio Lower Upper

64 100

66 26.6 23.0 34.4





#7

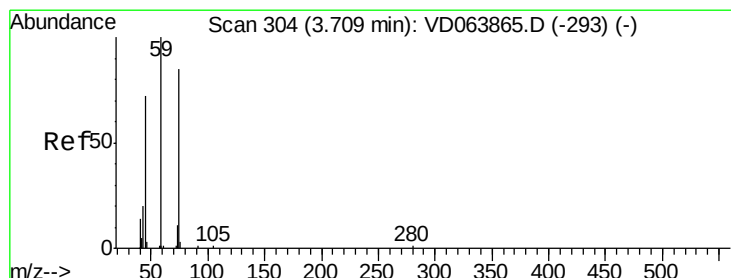
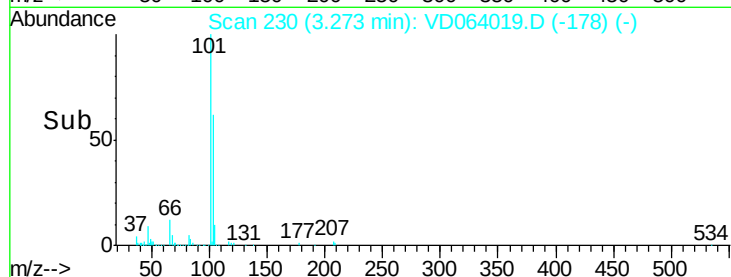
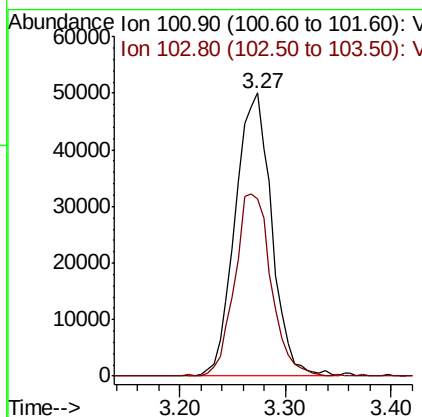
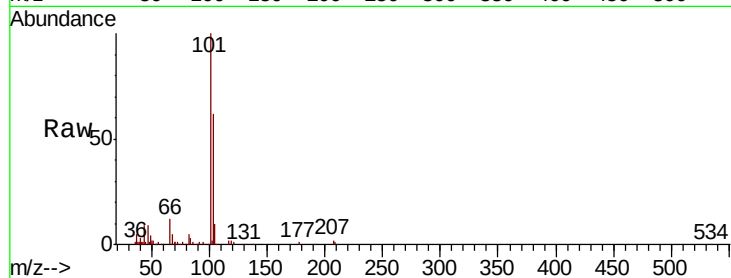
Trichlorofluoromethane
 Concen: 24.121 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

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 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.0	51.1	76.7

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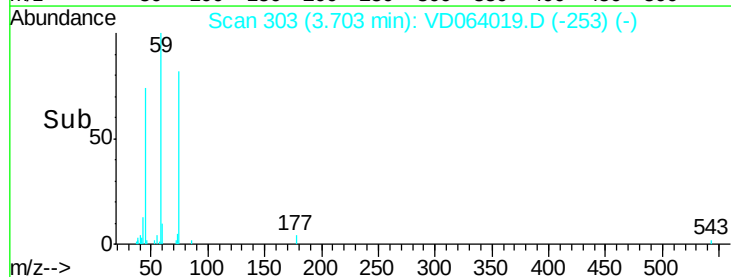
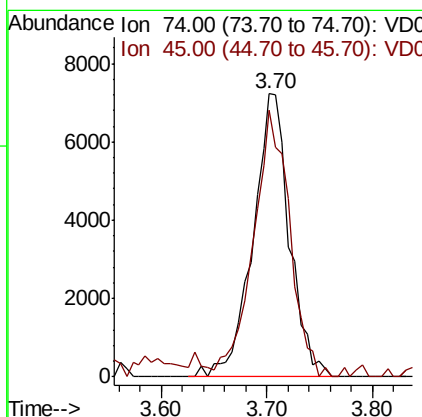
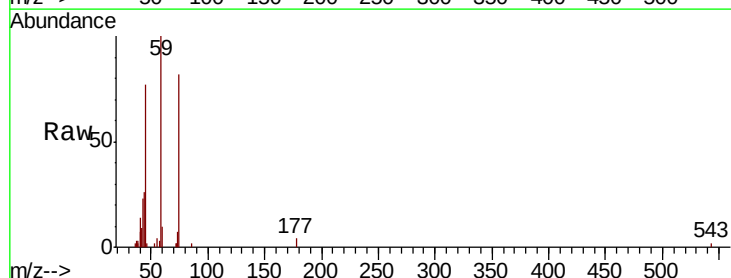
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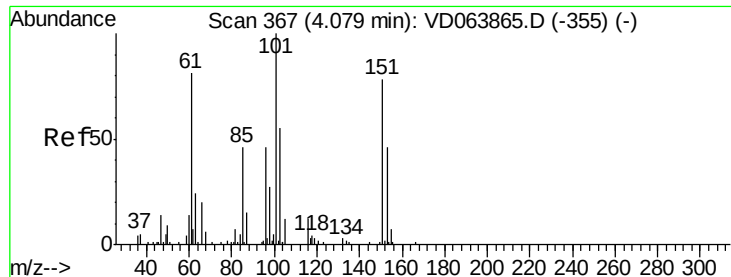


#8

Diethyl Ether
 Concen: 21.768 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.8	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.392 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

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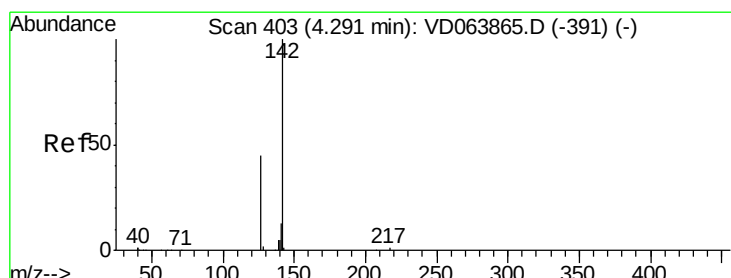
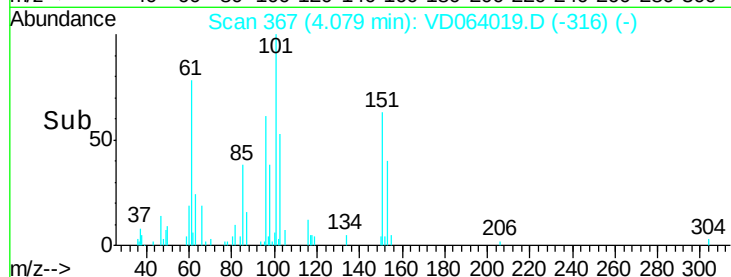
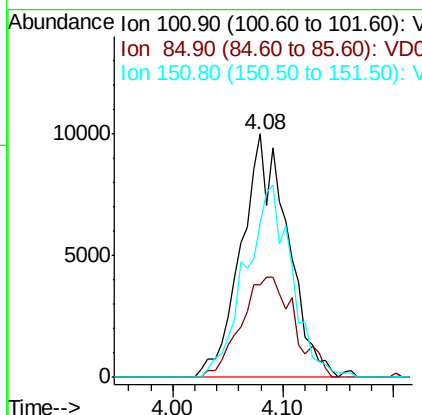
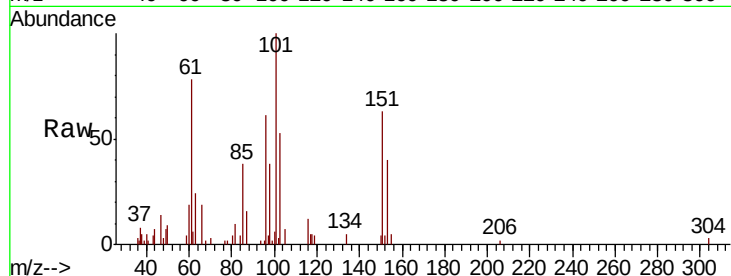
ClientSampleId :

VD1023SBS01

Tot Ion:	101	Resp:	29408
Ion Ratio	Lower	Upper	
101	100		
85	47.3	37.5	56.3
151	78.7	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 16.880 ug/l

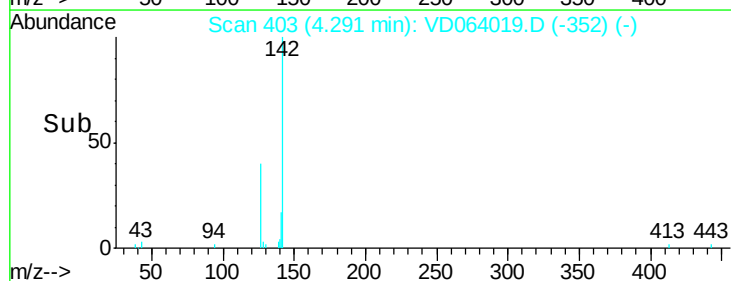
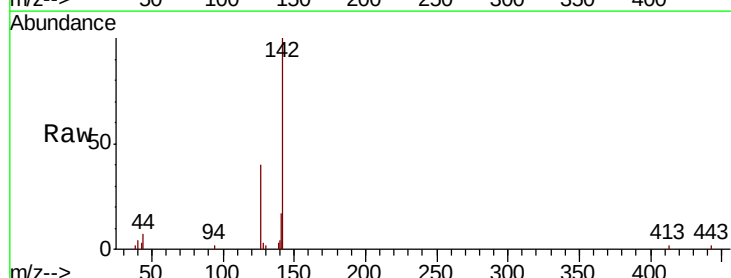
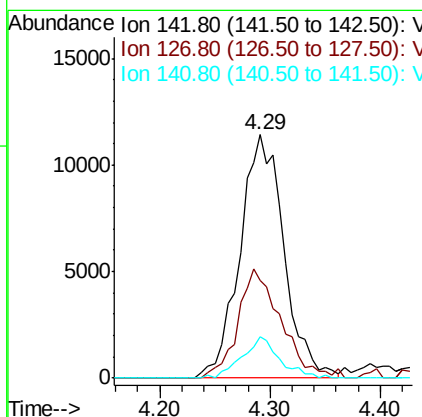
RT: 4.29 min Scan# 403

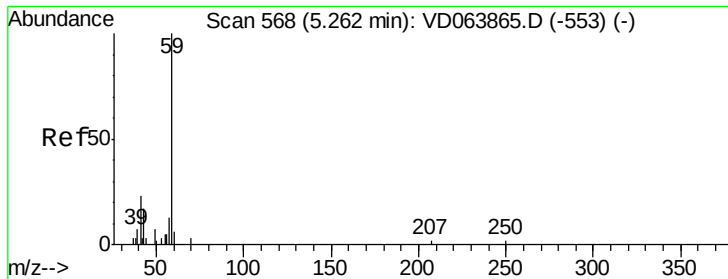
Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion:	142	Resp:	31975
Ion Ratio	Lower	Upper	
142	100		
127	44.0	35.3	52.9
141	14.6	12.2	18.2





#11

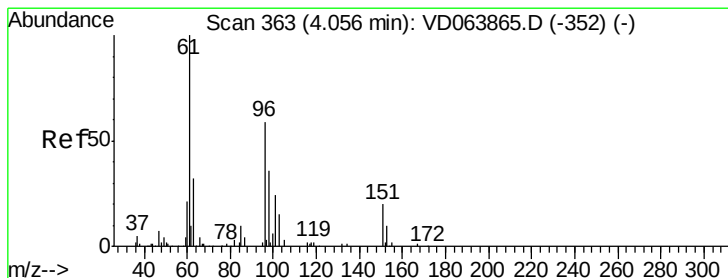
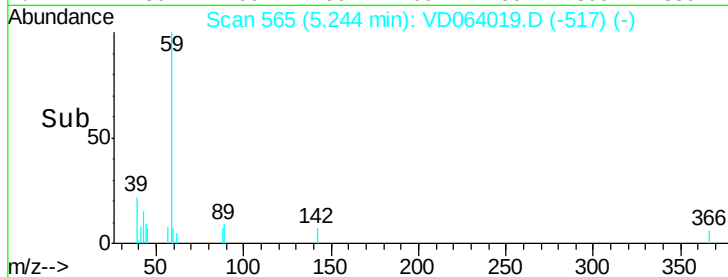
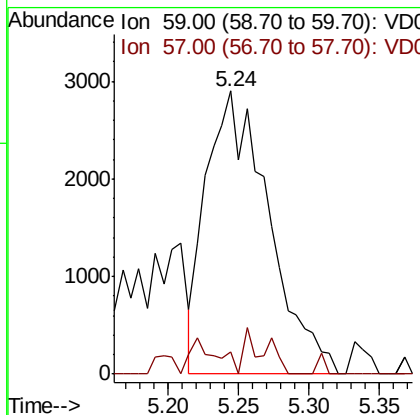
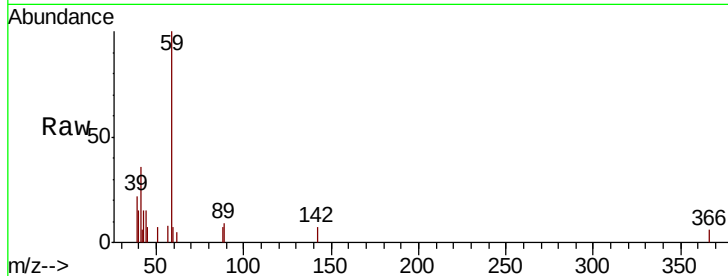
Tert butyl alcohol
 Concen: 75.191 ug/l
 RT: 5.24 min Scan# 565
 Delta R.T. -0.02 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

Manual Integrations
 APPROVED

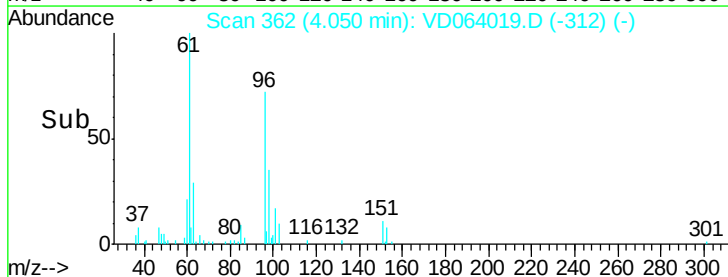
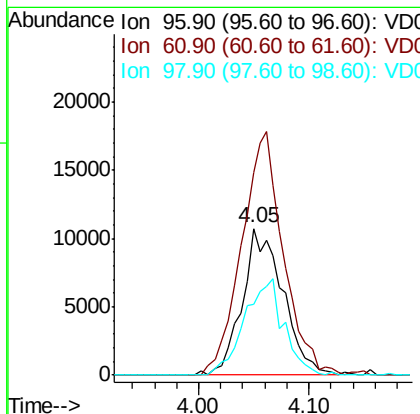
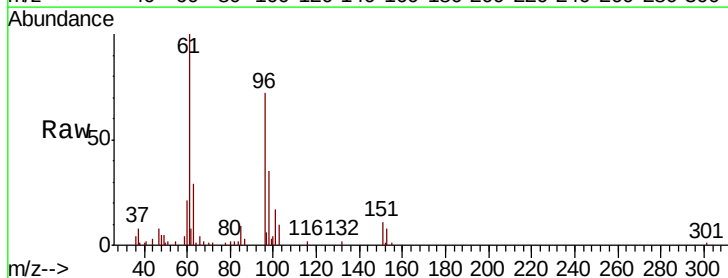
MMDadoda
 10/24/2019 4:53:20 PM

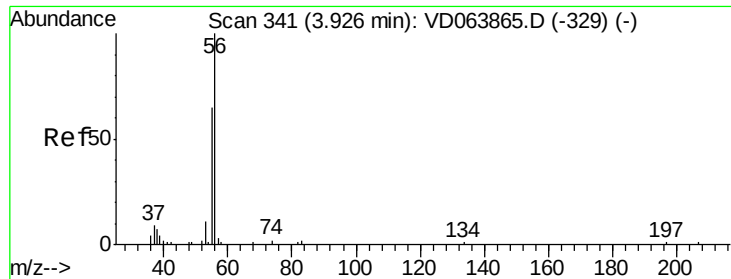


#12

1,1-Dichloroethene
 Concen: 20.177 ug/l
 RT: 4.05 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.0	135.6	203.4
98	47.8	49.2	73.8#





#13

Acrolein

Concen: 82.968 ug/l

RT: 3.91 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 56 Resp: 11823

Ion Ratio Lower Upper

56 100

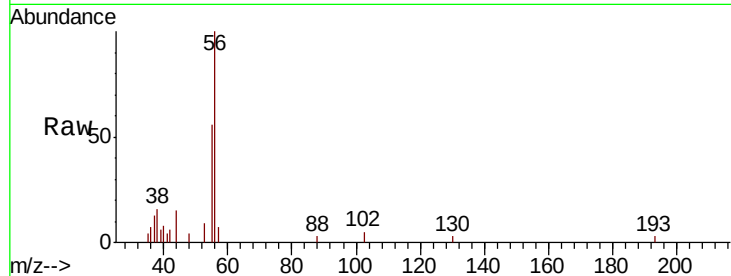
55 0.0 53.0 79.6#

Manual Integrations

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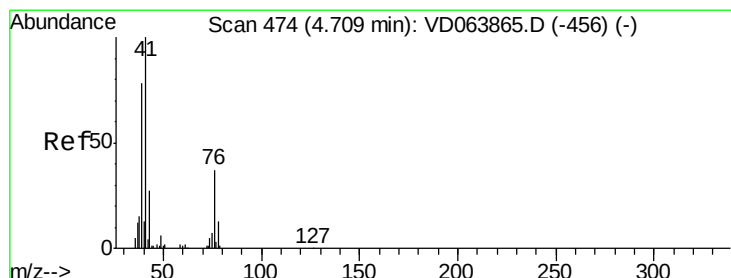
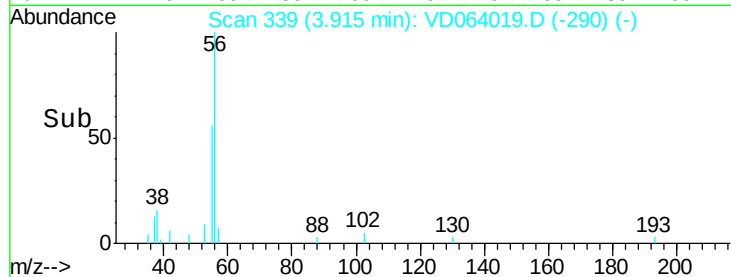
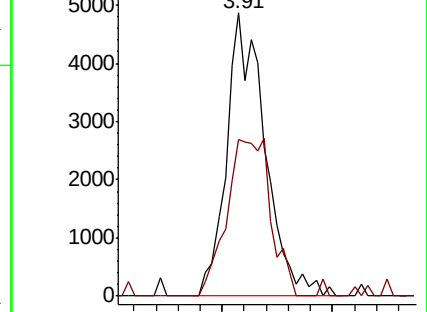
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 20.400 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

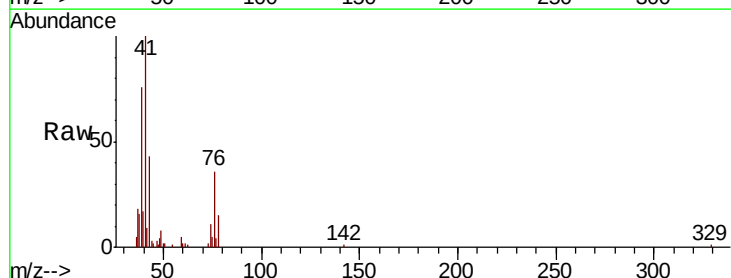
Tgt Ion: 41 Resp: 46582

Ion Ratio Lower Upper

41 100

39 78.8 61.8 92.6

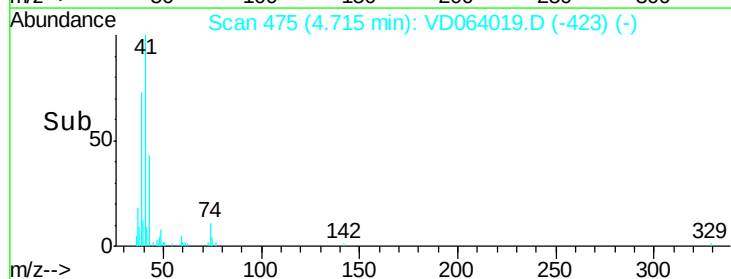
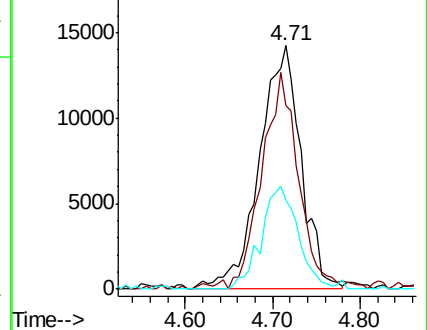
76 37.3 31.3 46.9

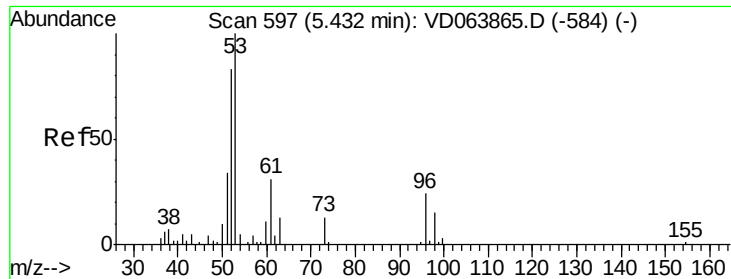


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 108.140 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

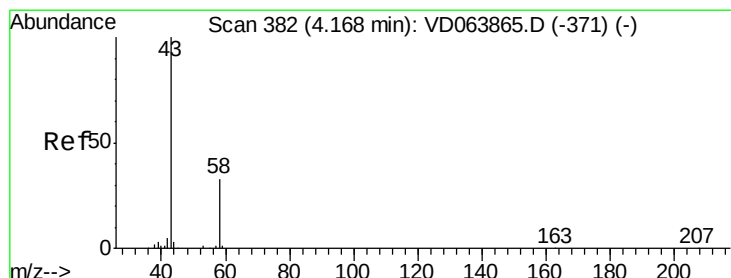
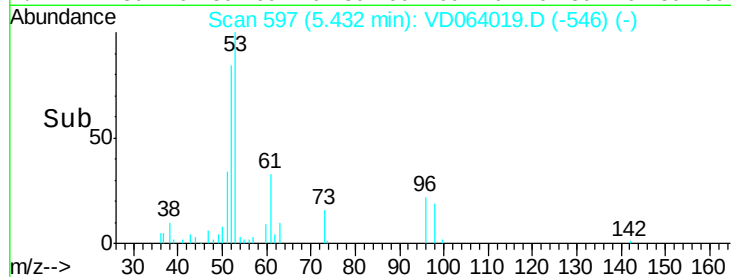
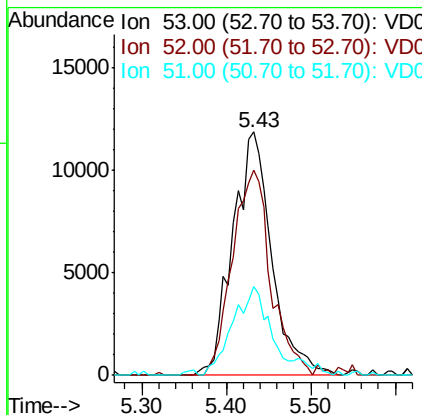
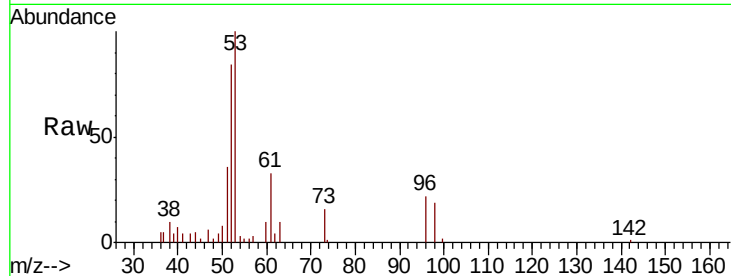
ClientSampleId :

VD1023SBS01

Tot Ion:	53	Resp:	38005
Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.3	100.9
51	37.9	30.5	45.7

Manual Integrations
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#16

Acetone

Concen: 97.100 ug/l

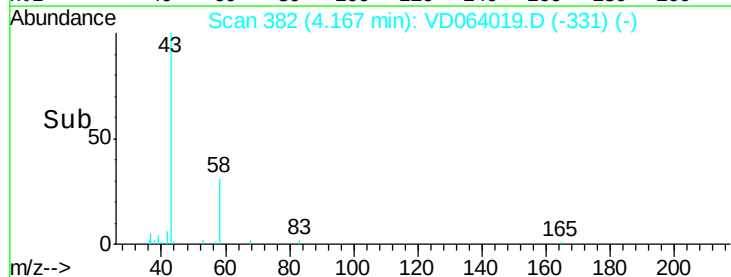
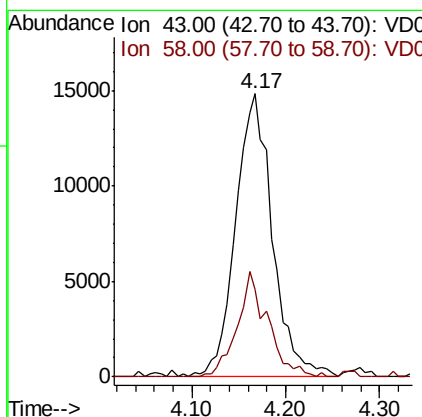
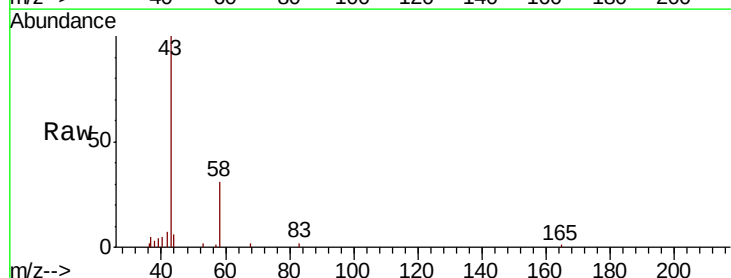
RT: 4.17 min Scan# 382

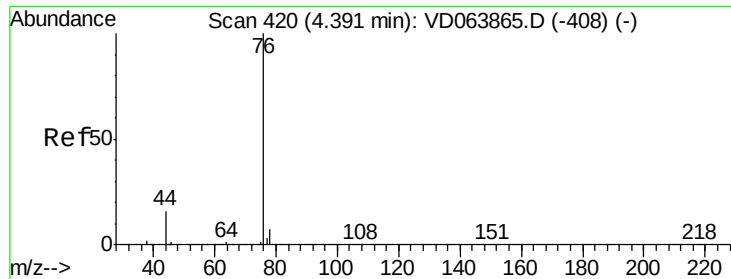
Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion:	43	Resp:	40335
Ion	Ratio	Lower	Upper
43	100		
58	31.1	26.2	39.4





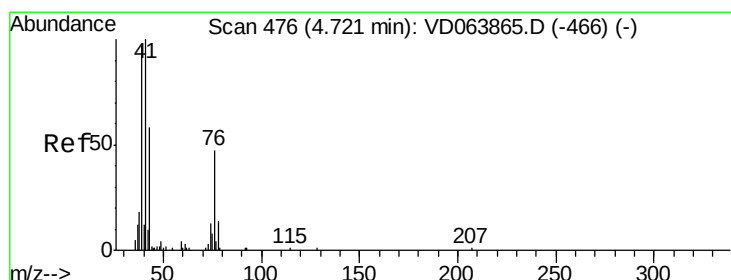
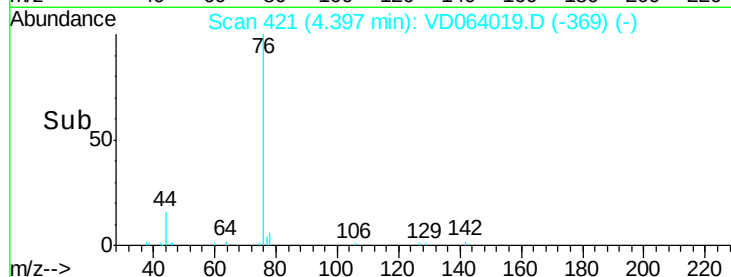
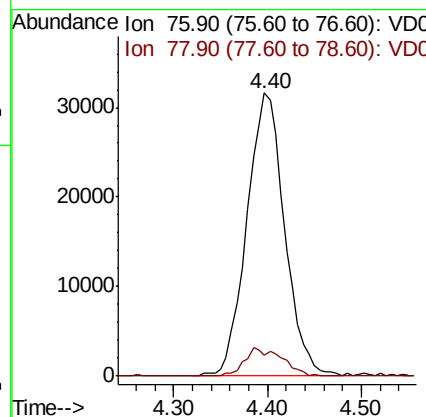
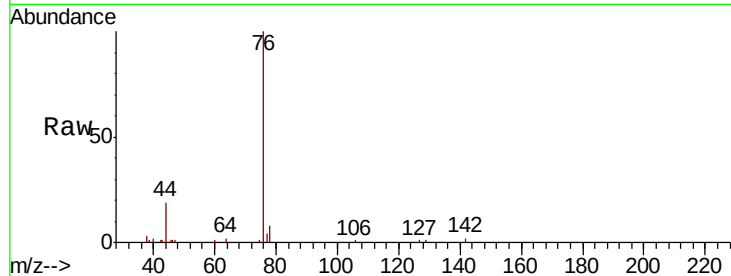
#17
Carbon Disulfide
Concen: 17.582 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	76	Resp	87780
Ion Ratio	100	Lower	Upper
76	100		
78	7.6	5.8	8.8

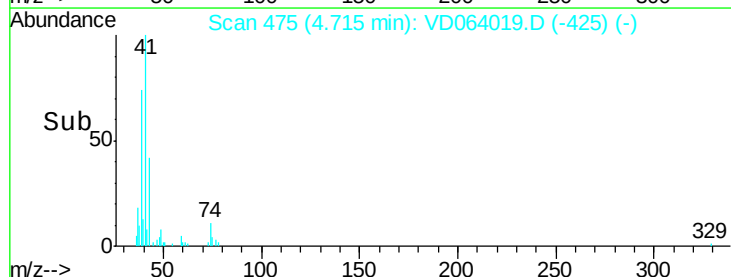
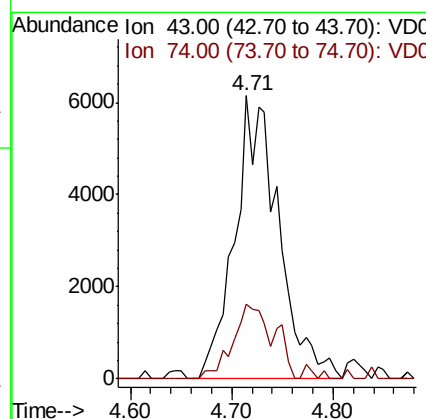
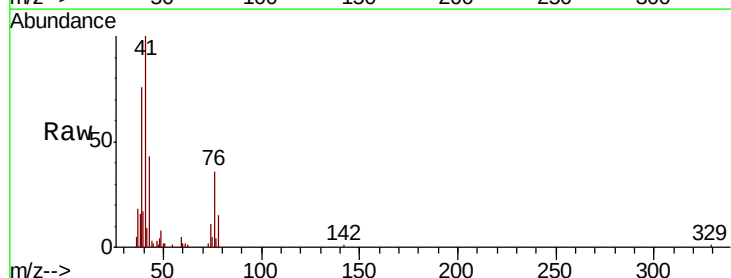
Manual Integrations
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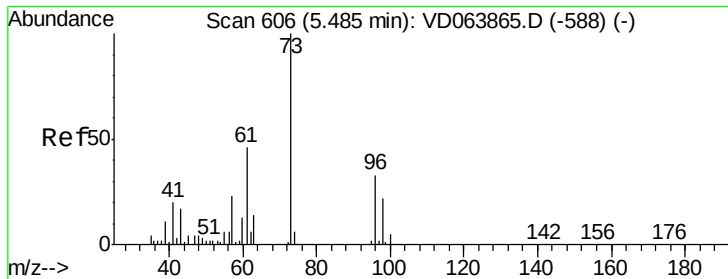
MMDadoda
10/24/2019 4:53:20 PM



#18
Methyl Acetate
Concen: 22.802 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	43	Resp	18526
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
74	19.7	20.8	31.2#





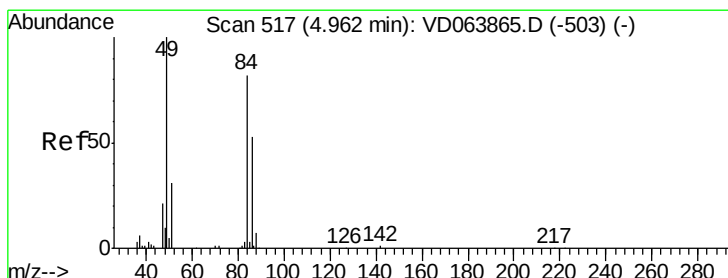
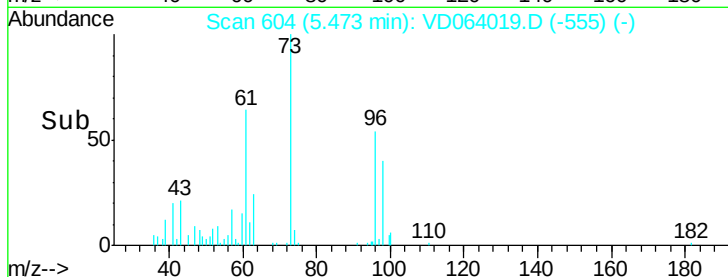
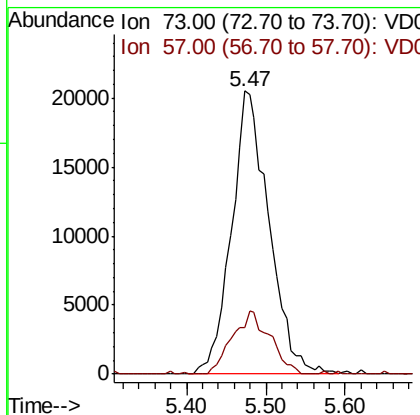
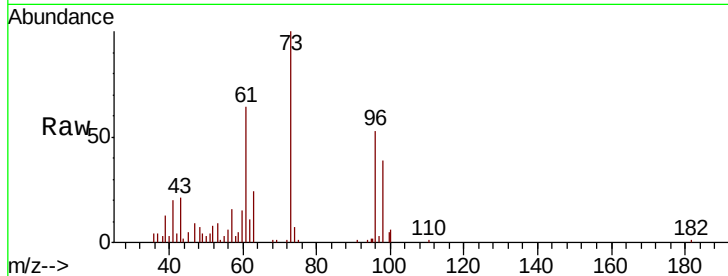
#19
Methyl tert-butyl Ether
Concen: 18.948 ug/l
RT: 5.47 min Scan# 604
Delta R.T. -0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion: 73 Resp: 67390
Ion Ratio Lower Upper
73 100
57 16.5 18.1 27.1#

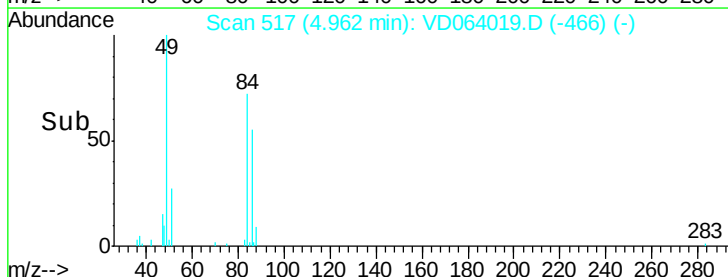
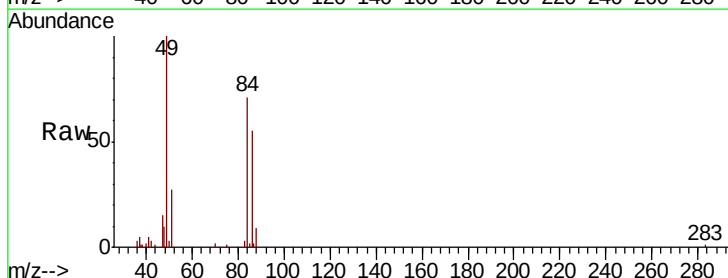
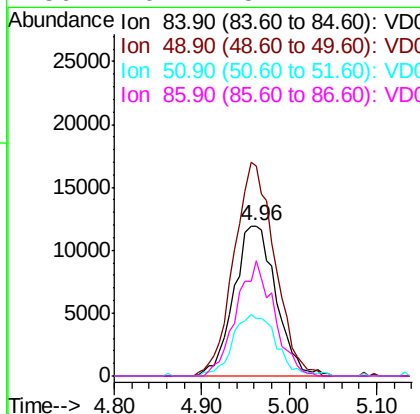
Manual Integrations
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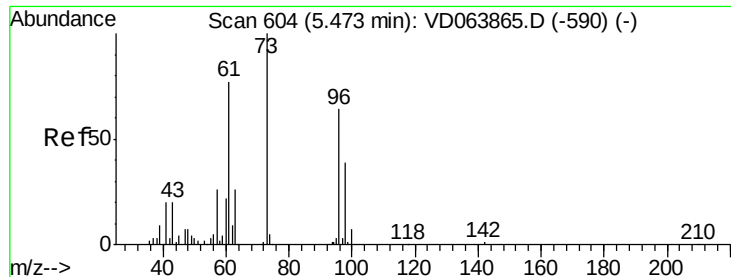
MMDadoda
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#20
Methylene Chloride
Concen: 19.353 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion: 84 Resp: 39072
Ion Ratio Lower Upper
84 100
49 140.3 97.3 145.9
51 38.0 30.1 45.1
86 76.7 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 20.575 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

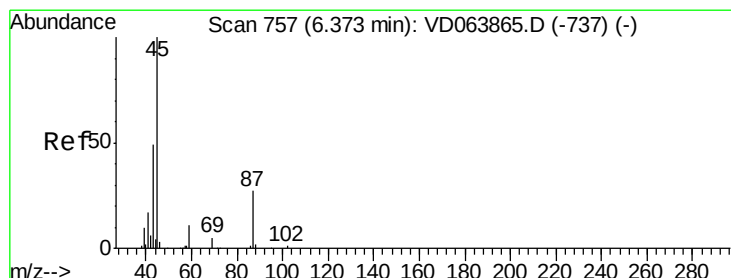
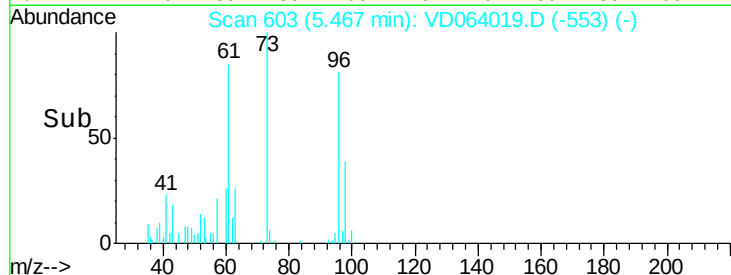
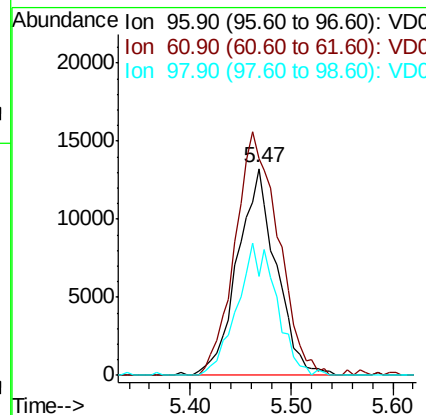
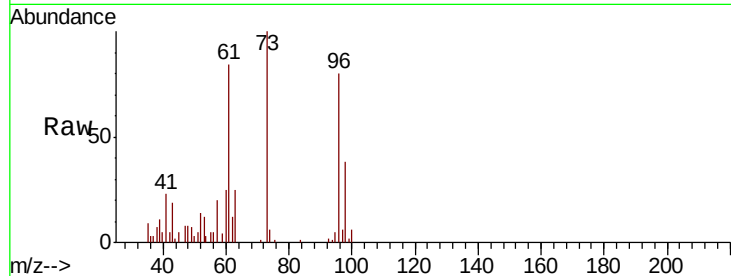
ClientSampleId :

VD1023SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	104.6	96.6	145.0
98	47.6	48.7	73.1#

Manual Integrations
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#22

Diisopropyl ether

Concen: 20.925 ug/l

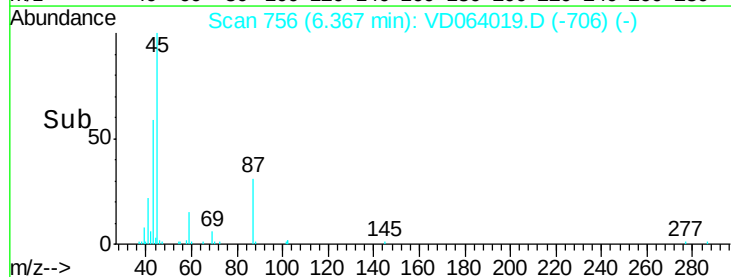
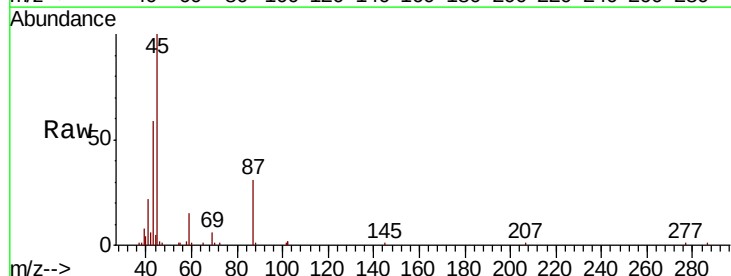
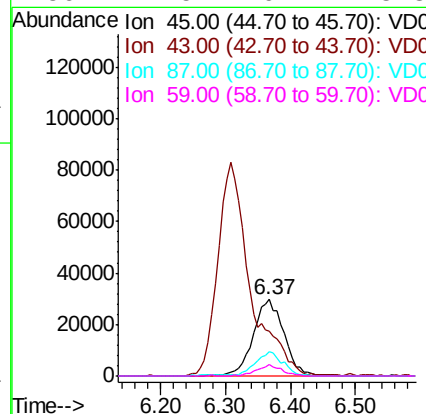
RT: 6.37 min Scan# 756

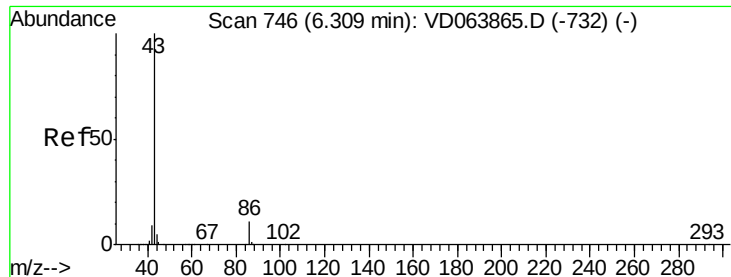
Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.7	41.2	61.8
87	31.4	22.2	33.4
59	14.5	9.2	13.8#





#23

Vinyl Acetate

Concen: 103.222 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 43 Resp: 286367

Ion Ratio Lower Upper

43 100

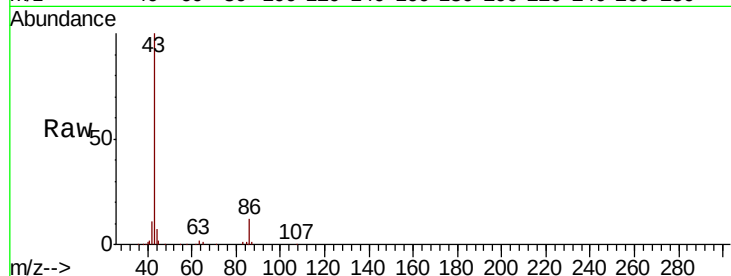
86 12.0 8.8 13.2

Manual Integrations

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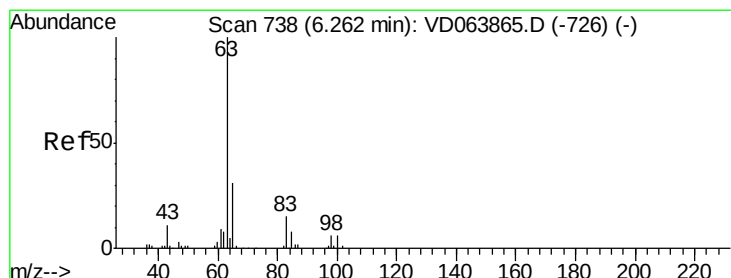
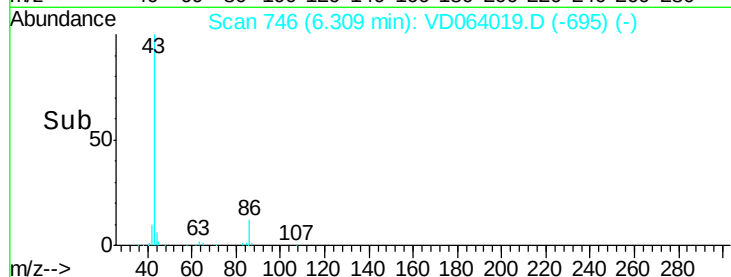
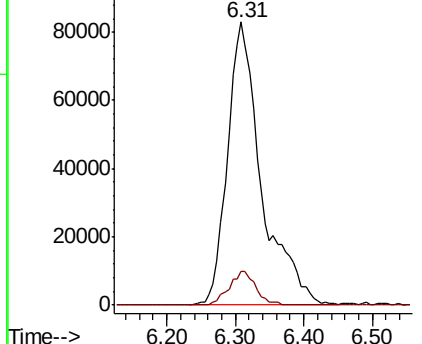
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.712 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

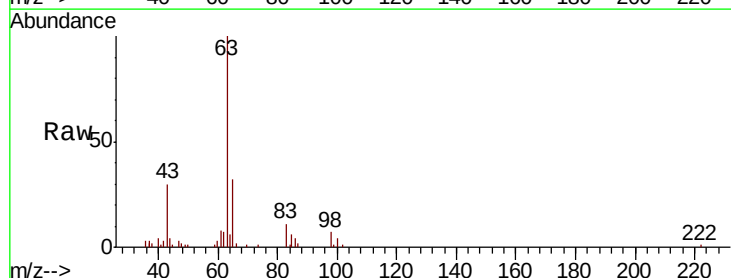
Tgt Ion: 63 Resp: 59497

Ion Ratio Lower Upper

63 100

98 6.7 3.1 9.4

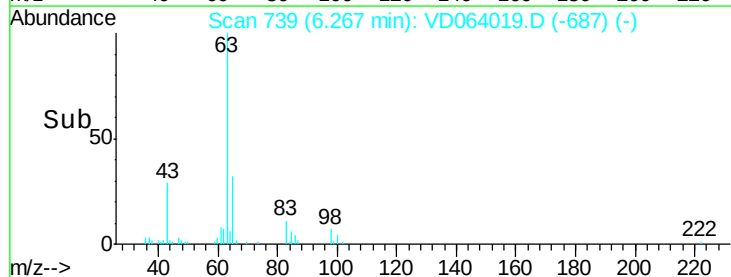
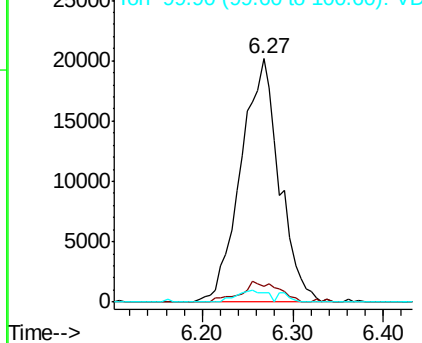
100 4.1 3.0 9.2

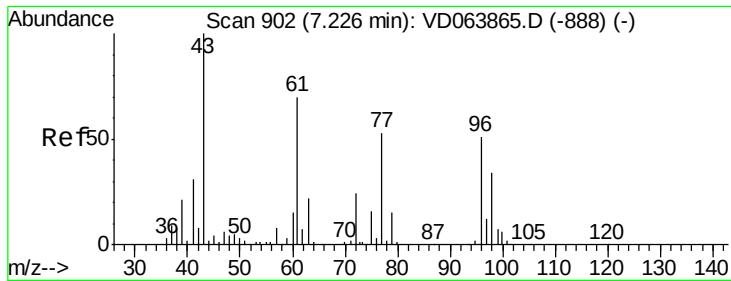


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 99.368 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 43 Resp: 48918

Ion Ratio Lower Upper

43 100

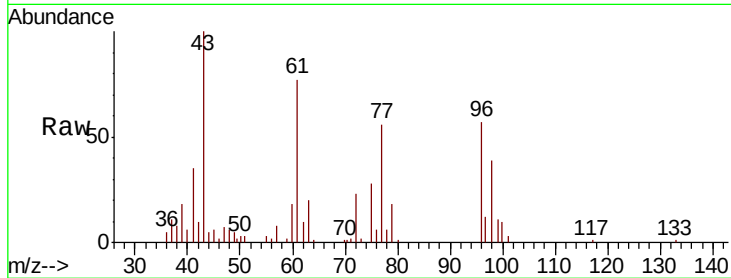
72 22.8 19.2 28.8

Manual Integrations

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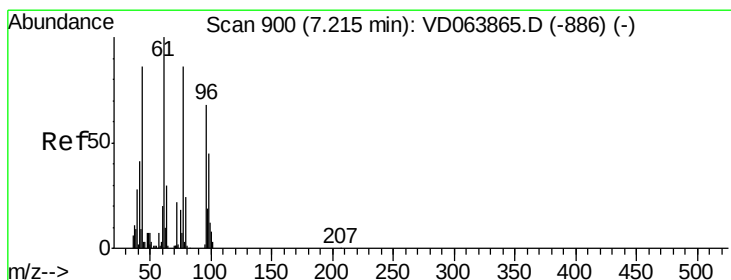
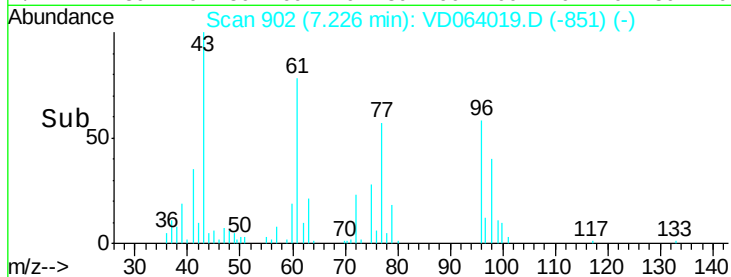
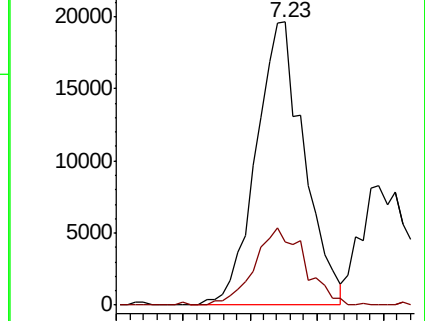
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.226 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064019.D

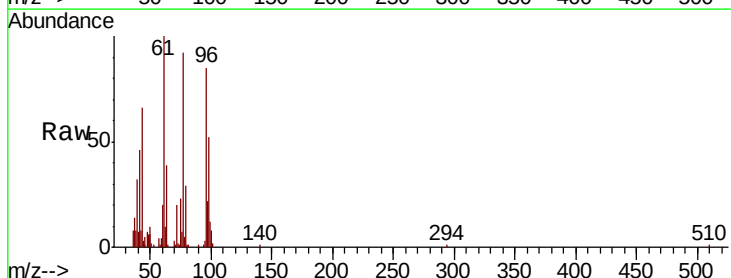
Acq: 23 Oct 2019 14:26

Tgt Ion: 77 Resp: 52557

Ion Ratio Lower Upper

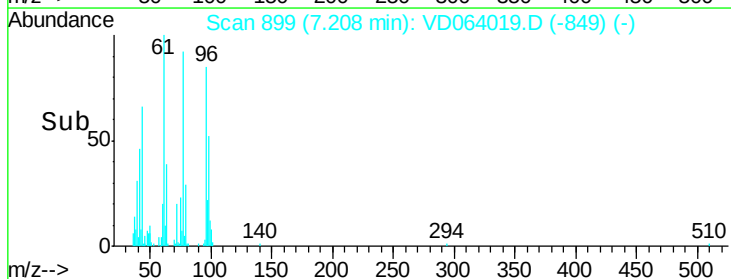
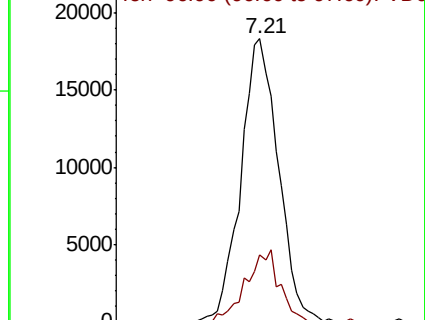
77 100

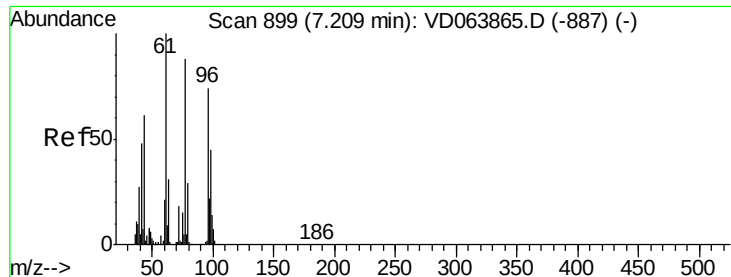
97 22.6 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

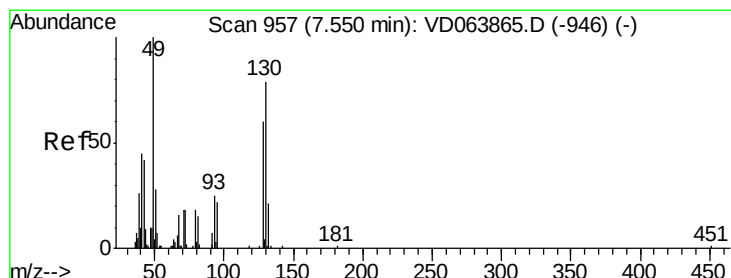
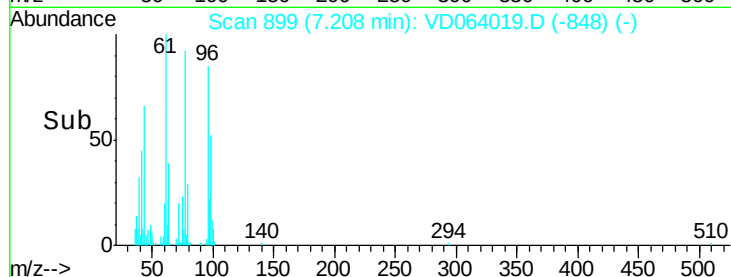
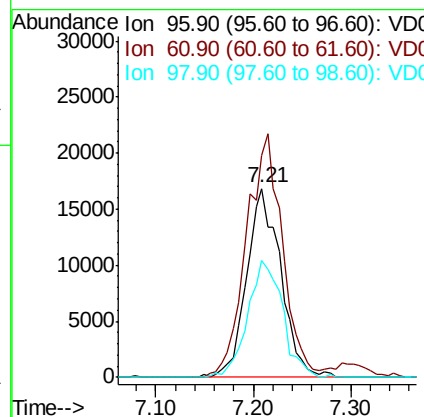
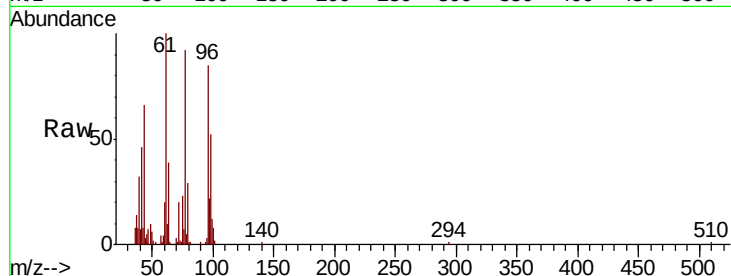
cis-1,2-Dichloroethene
 Concen: 21.068 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.6	0.0	280.0
98	64.0	0.0	130.4

Manual Integrations
 APPROVED

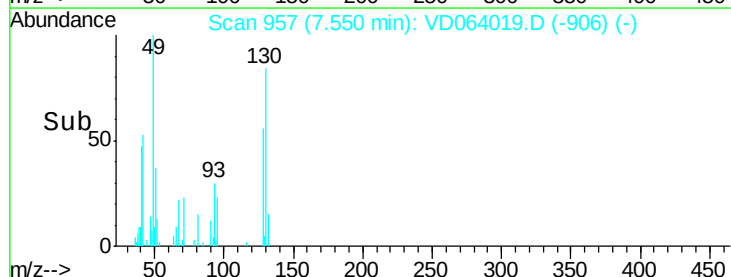
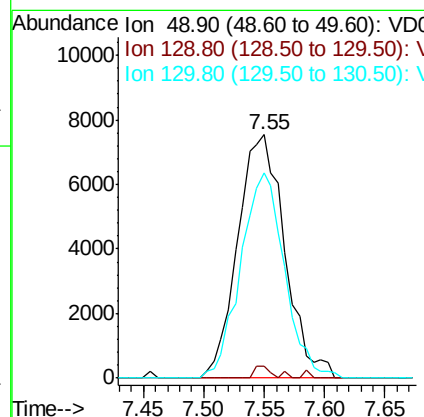
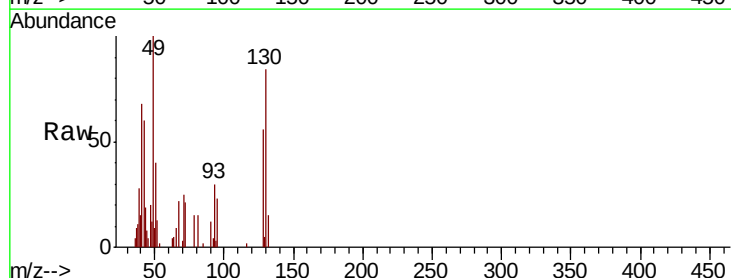
MMDadoda
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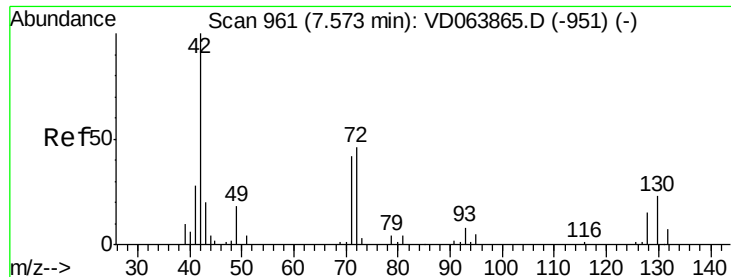


#28

Bromochloromethane
 Concen: 19.872 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	5.6
130	78.6	66.8	100.2





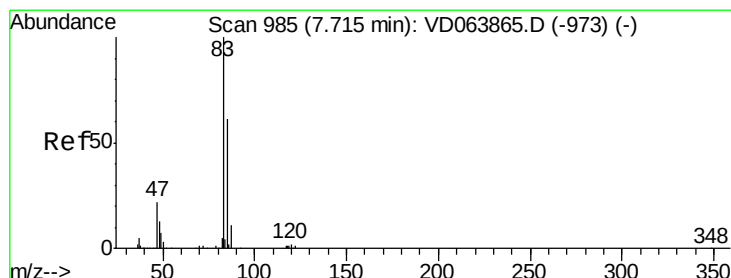
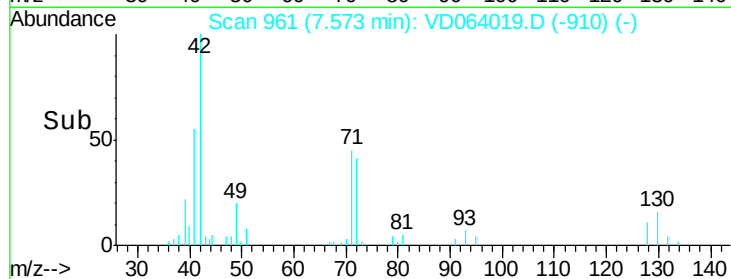
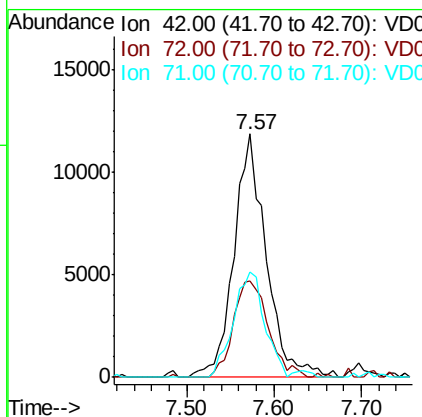
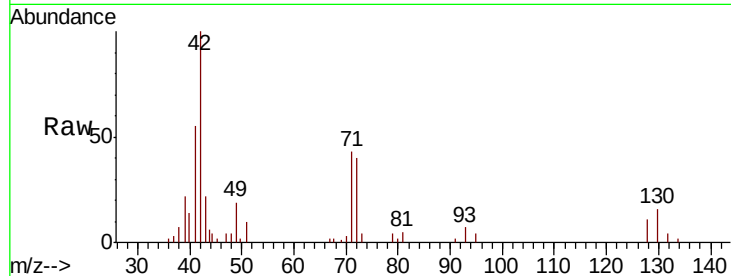
#29
Tetrahydrofuran
Concen: 103.198 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	37.6	56.4
71	42.1	35.0	52.6

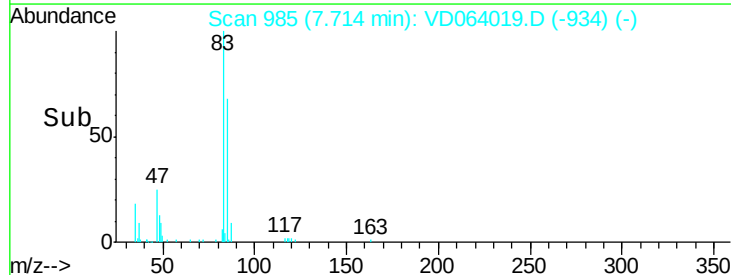
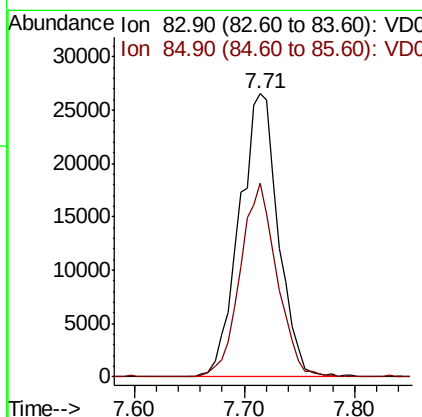
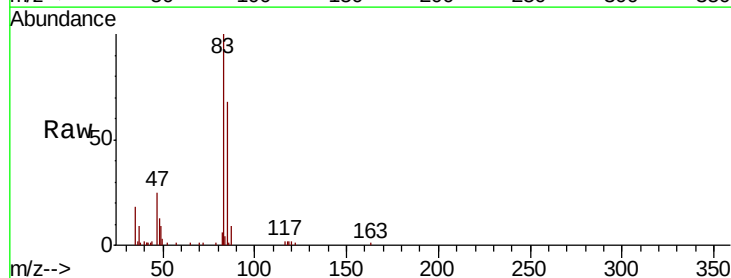
Manual Integrations
APPROVED

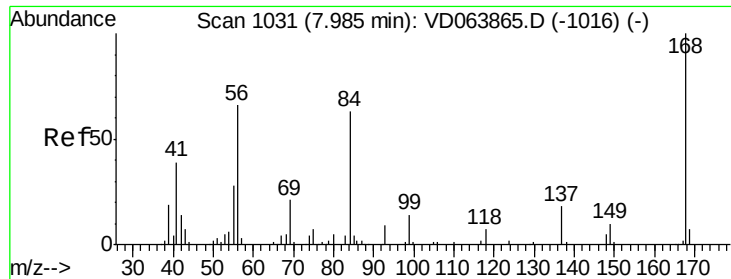
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#30
Chloroform
Concen: 21.022 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.5	48.9	73.3





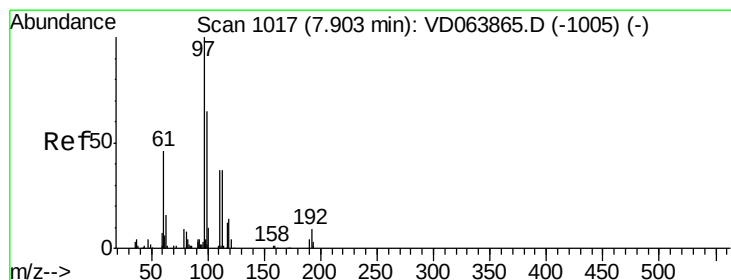
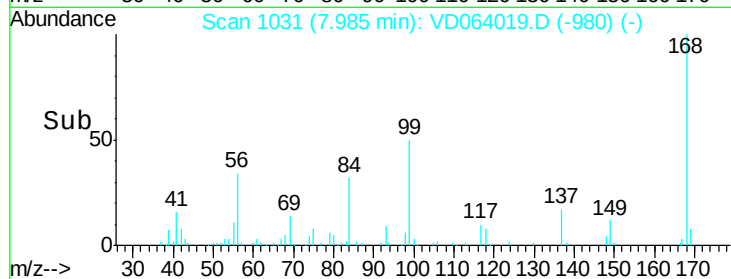
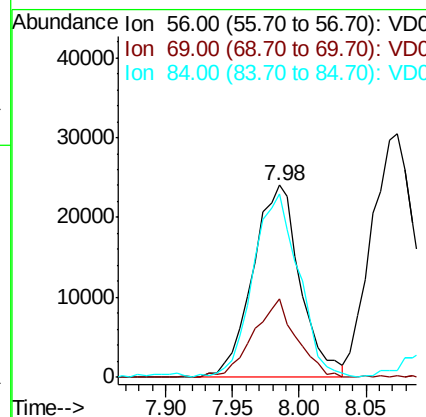
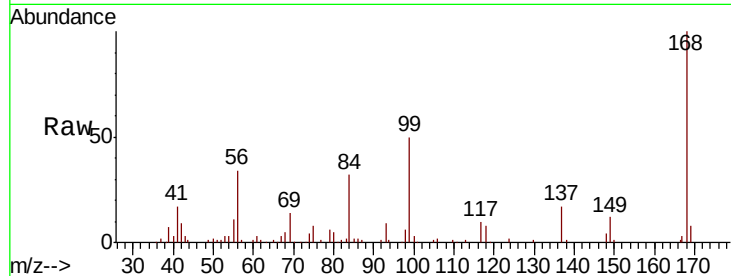
#31
Cyclohexane
Concen: 22.797 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	40.6	25.0	37.4#
84	95.3	76.3	114.5

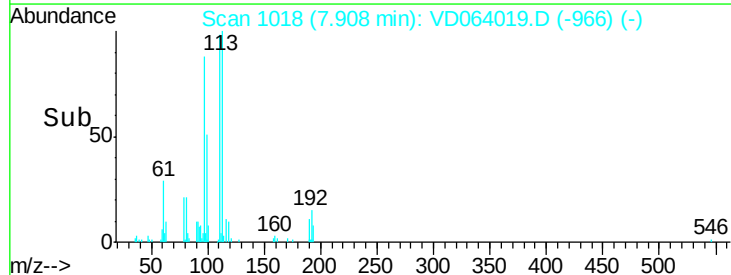
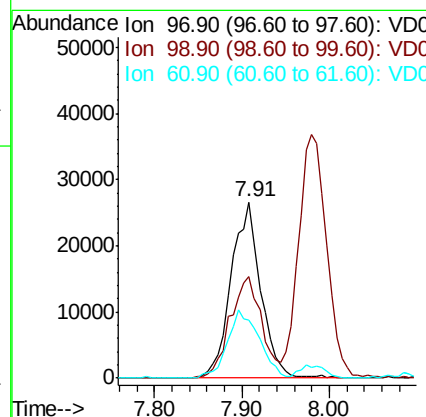
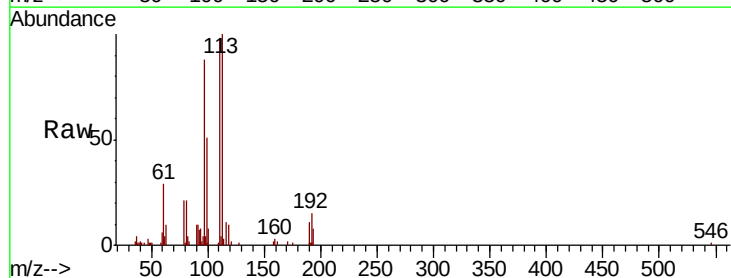
Manual Integrations
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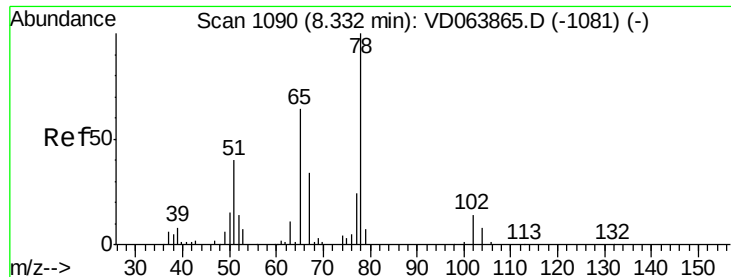
MMDadoda
10/24/2019 4:53:20 PM



#32
1,1,1-Trichloroethane
Concen: 22.973 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.9	52.4	78.6
61	41.5	33.8	50.8





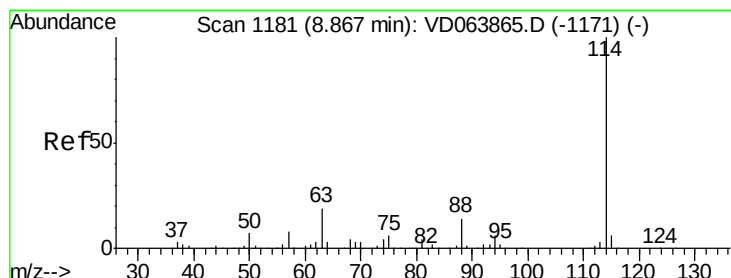
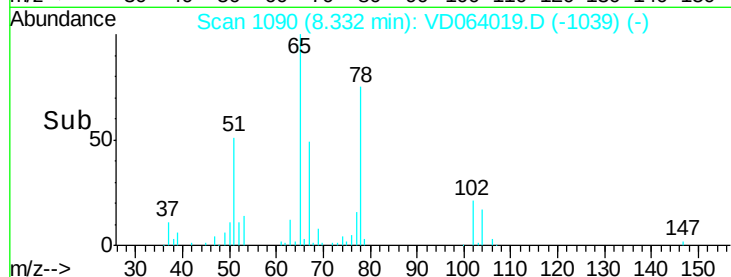
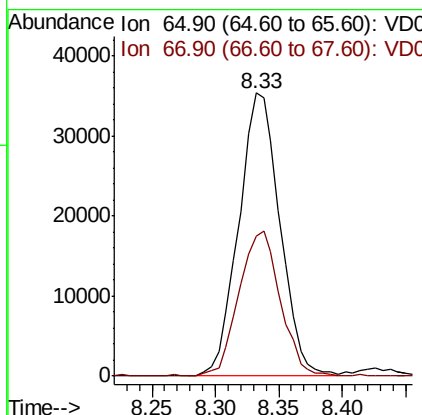
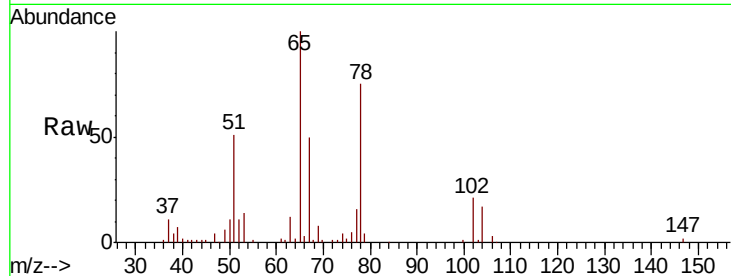
#33
 1,2-Dichloroethane-d4
 Concen: 50.103 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.4

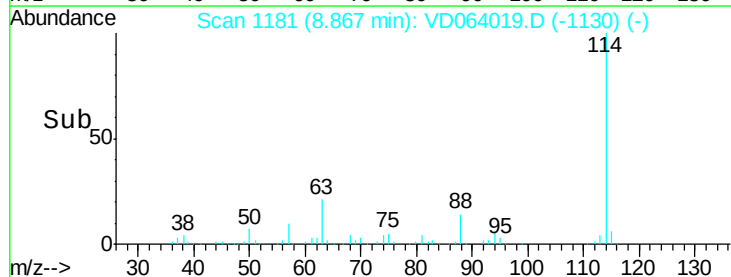
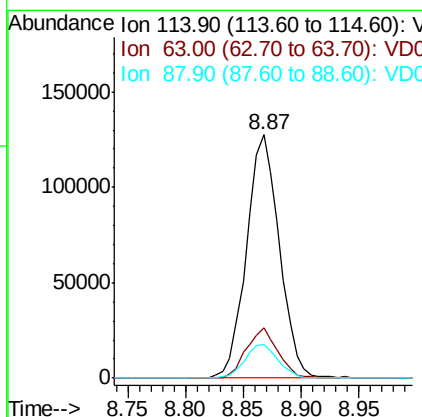
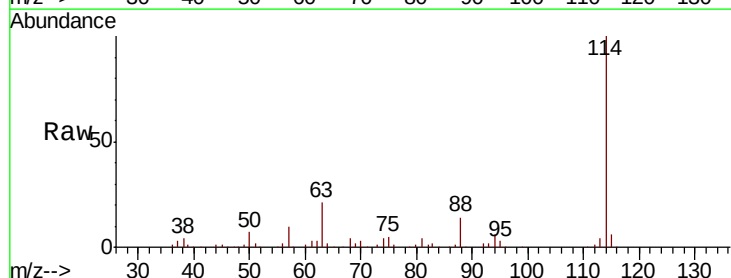
Manual Integrations
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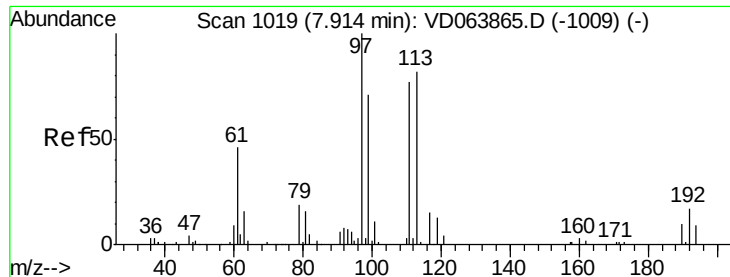
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	38.4
88	13.8	0.0	27.4





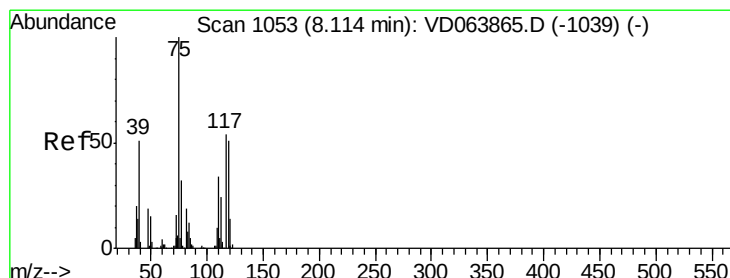
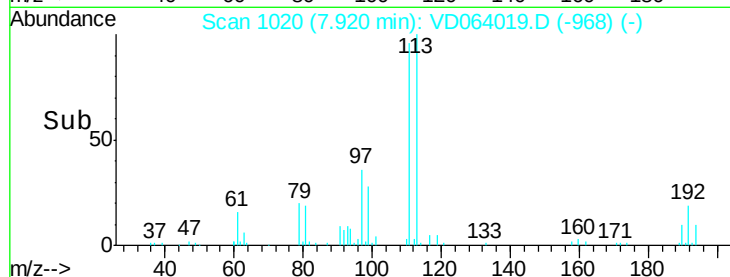
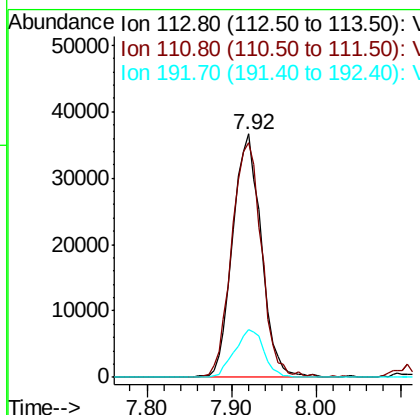
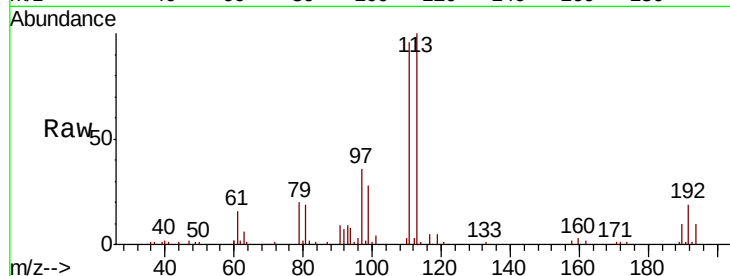
#35
 Dibromofluoromethane
 Concen: 55.450 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.2	82.6	123.8
192	19.8	17.1	25.7

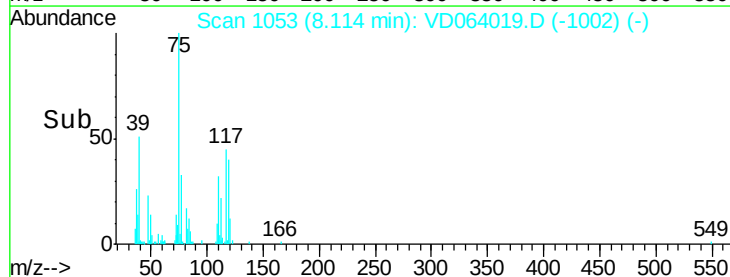
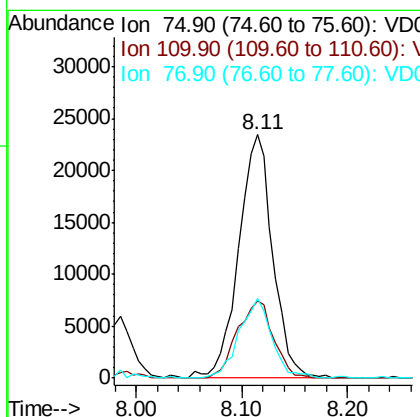
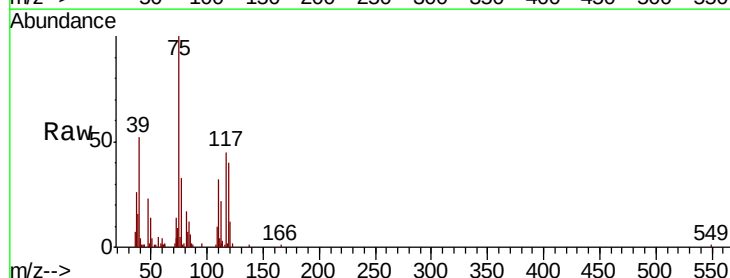
Manual Integrations
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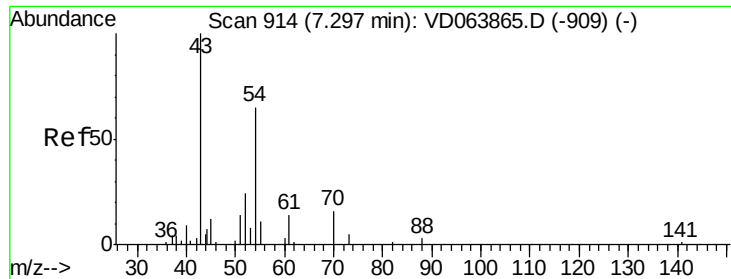
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#36
 1,1-Dichloropropene
 Concen: 22.579 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.4	52.3
77	31.7	25.4	38.0





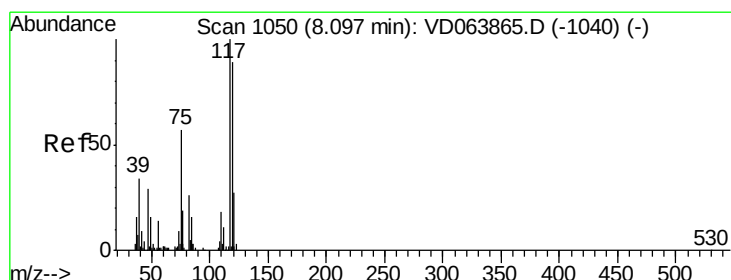
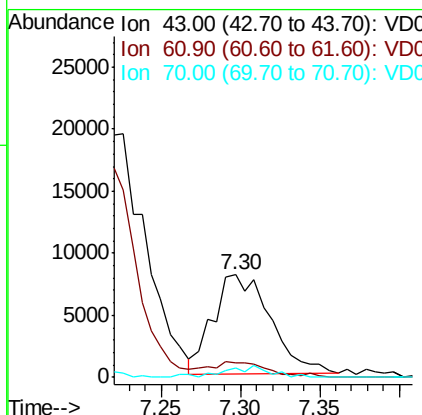
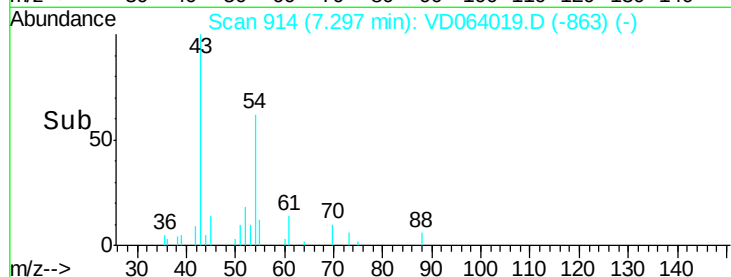
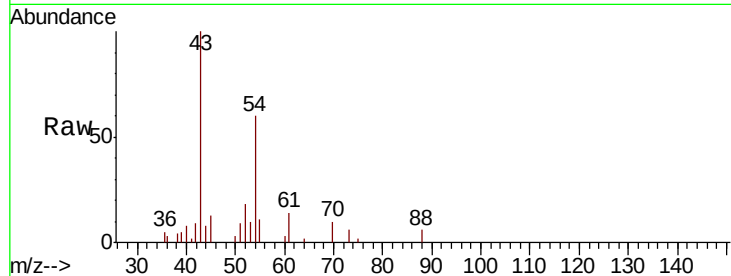
#37
Ethyl Acetate
Concen: 19.195 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	11.5	17.3
70	4.1	8.2	12.4

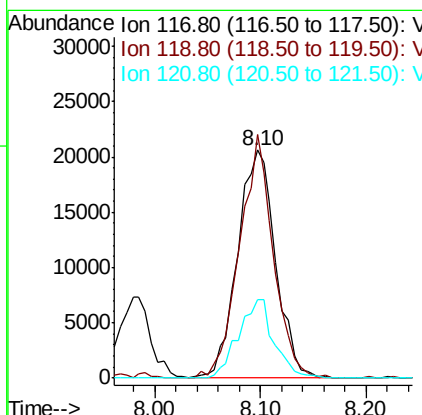
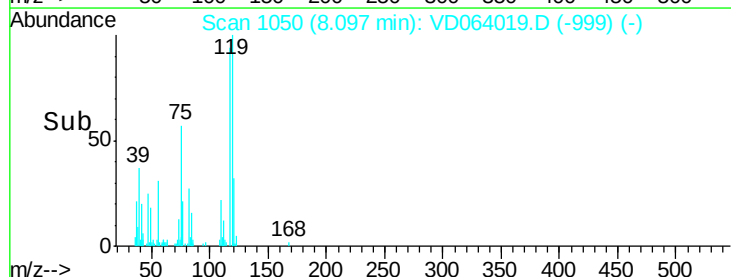
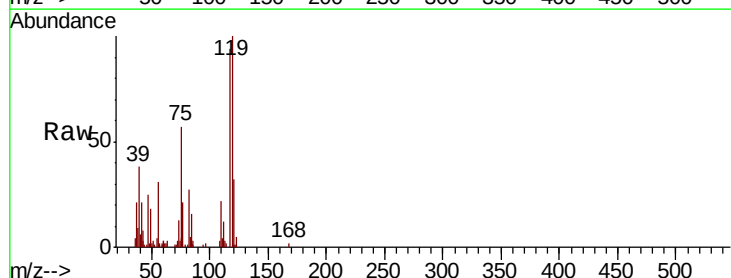
Manual Integrations
APPROVED

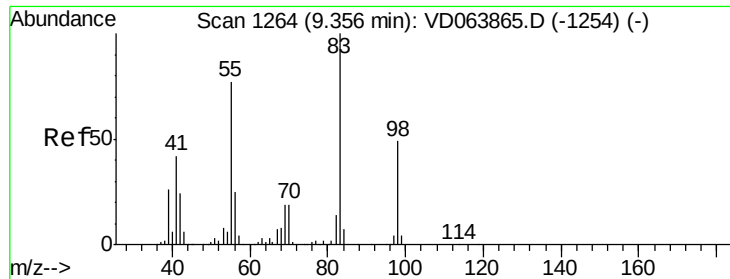
MMDadoda
10/24/2019 4:53:20 PM



#38
Carbon Tetrachloride
Concen: 21.904 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	106.8	70.8	106.2
121	34.2	21.4	32.0





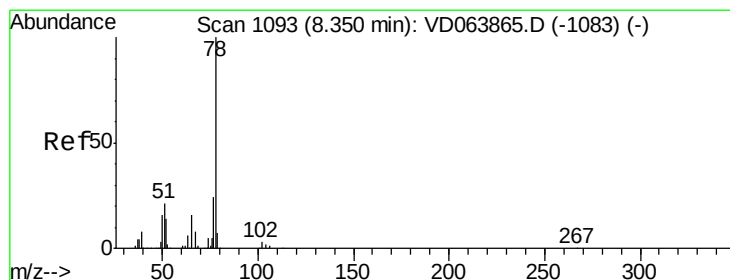
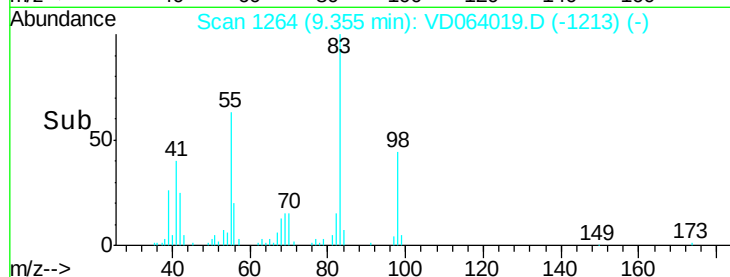
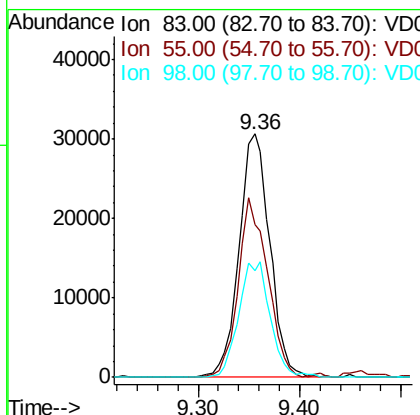
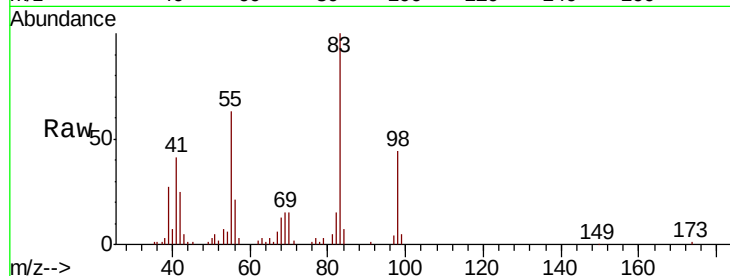
#39
Methylvlcyclohexane
Concen: 22.652 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	62.9	61.3	91.9
98	43.9	39.3	58.9

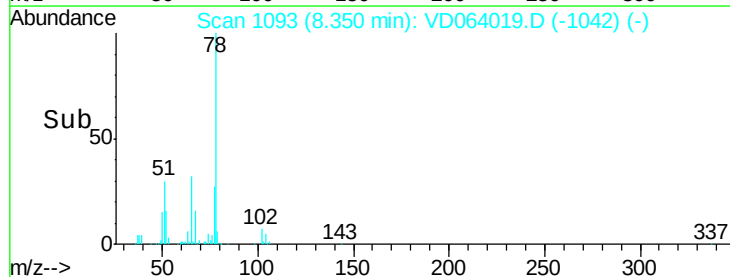
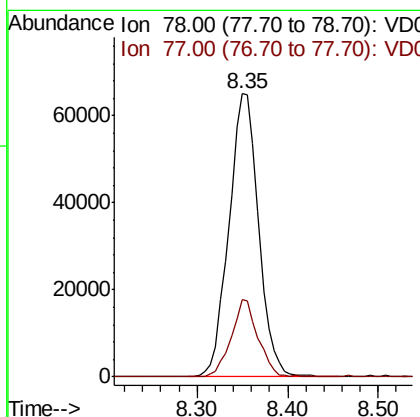
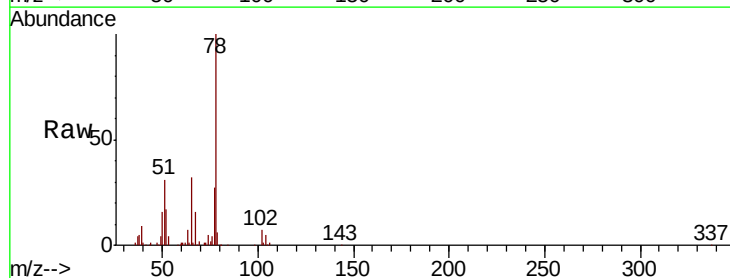
Manual Integrations
APPROVED

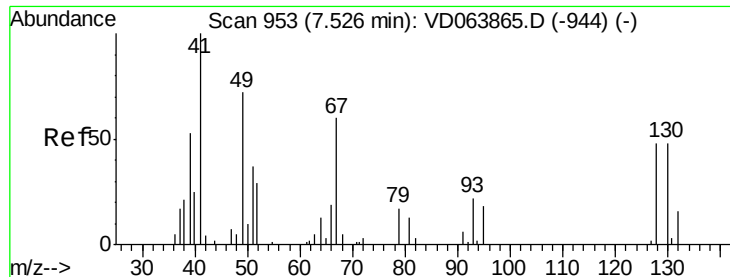
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10/24/2019 4:53:20 PM



#40
Benzene
Concen: 22.410 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.2	19.0	28.6





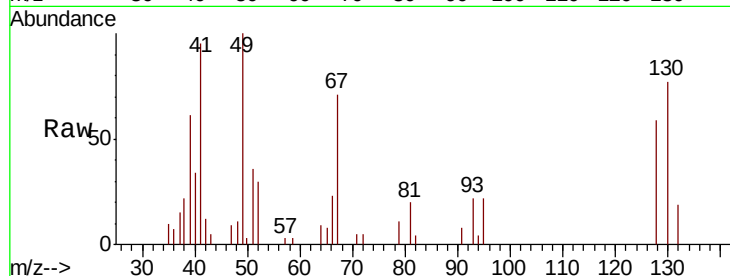
#41
Methacrylonitrile
Concen: 19.033 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

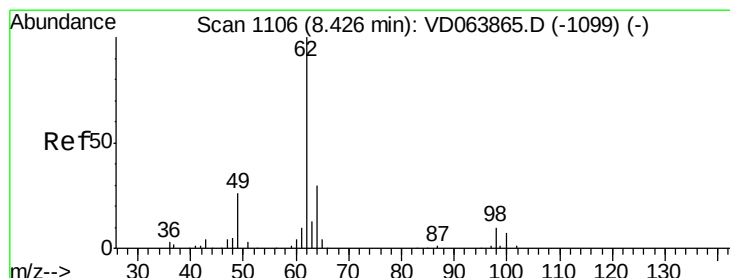
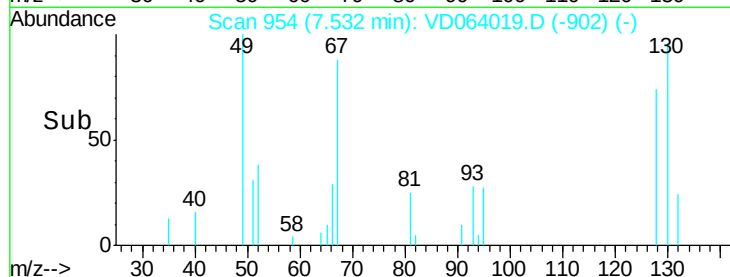
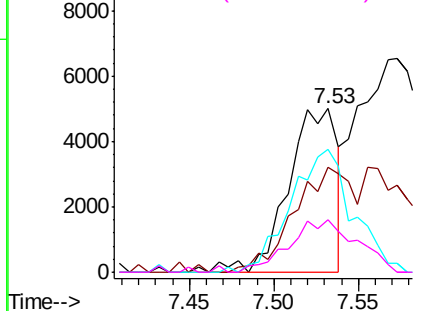
Tot Ion	Ratio	Lower	Upper
41	100		
39	76.8	52.6	78.8
67	94.0	74.2	111.2
52	43.0	34.0	51.0

Manual Integrations
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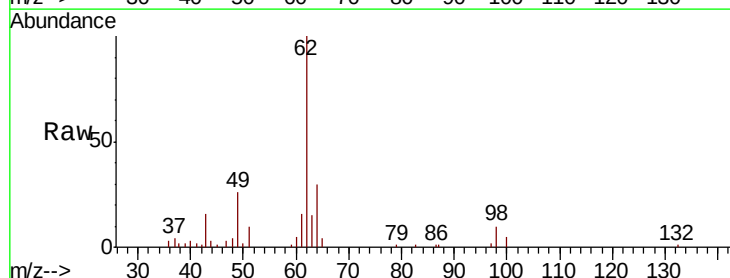


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

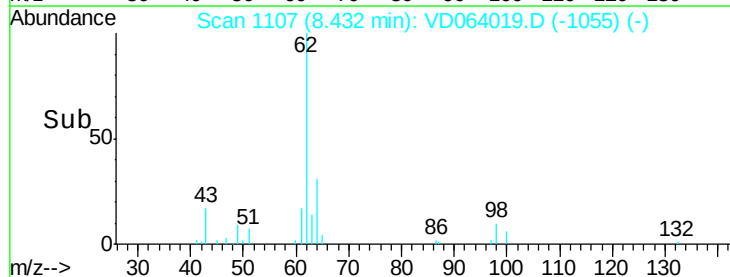
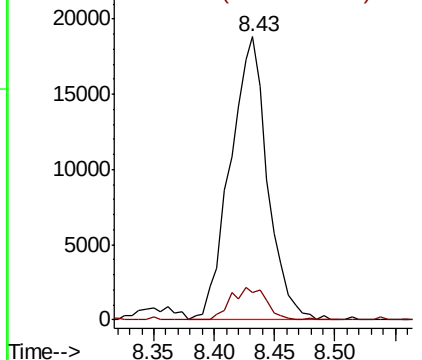


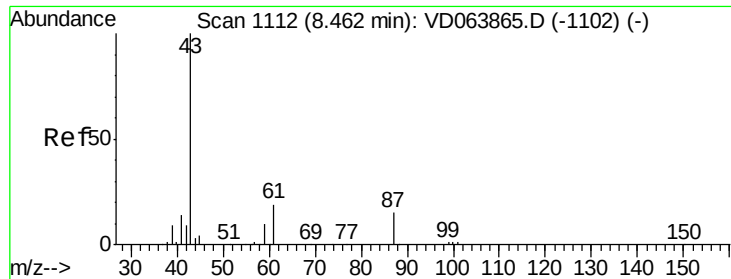
#42
1,2-Dichloroethane
Concen: 21.019 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 20.044 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

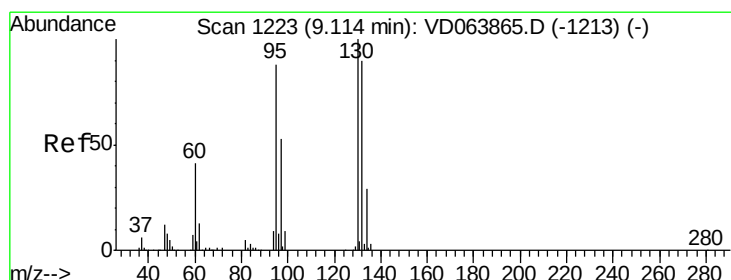
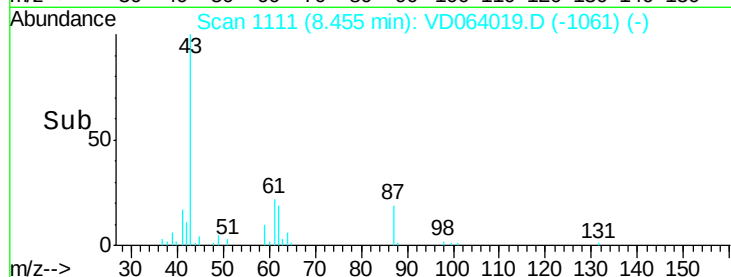
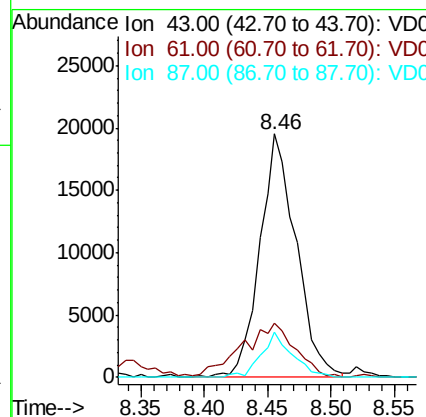
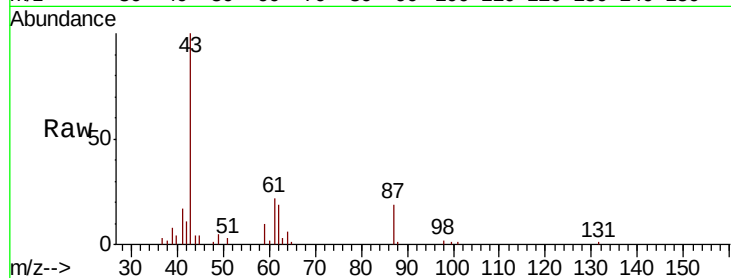
ClientSampleId :

VD1023SBS01

Tot Ion:	43	Resp:	38903
Ion	Ratio	Lower	Upper
43	100		
61	32.8	25.7	38.5
87	16.1	11.6	17.4

Manual Integrations
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#44

Trichloroethene

Concen: 21.955 ug/l

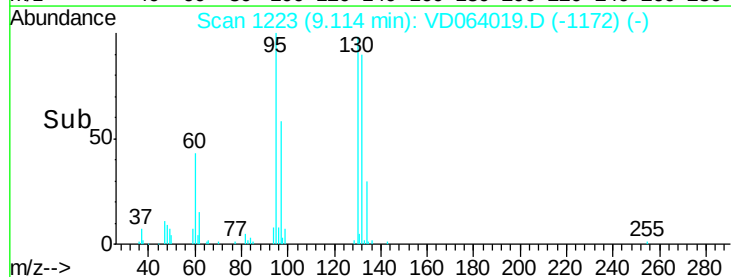
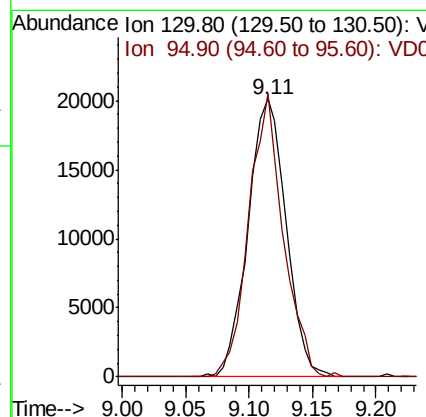
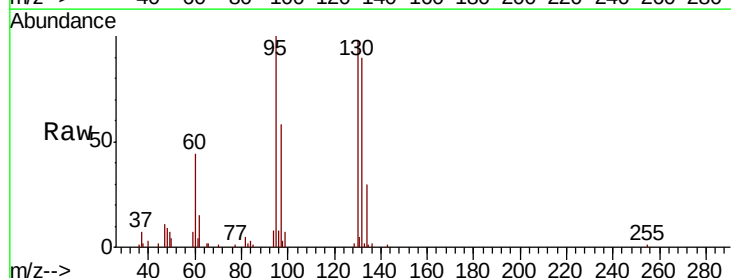
RT: 9.11 min Scan# 1223

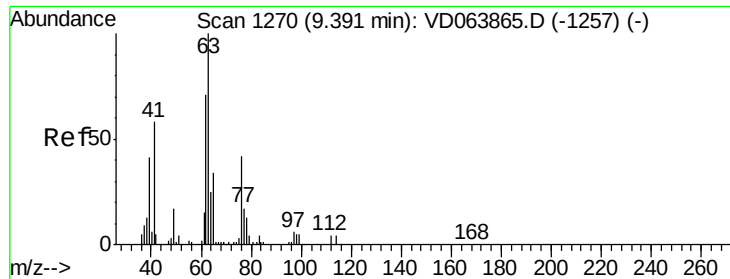
Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion:	130	Resp:	41990
Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	175.6





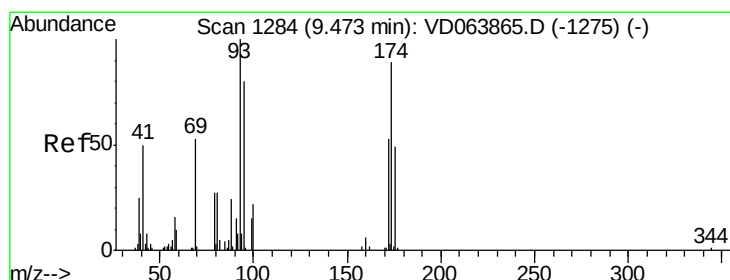
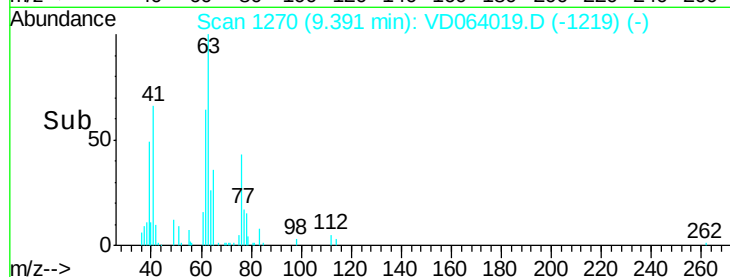
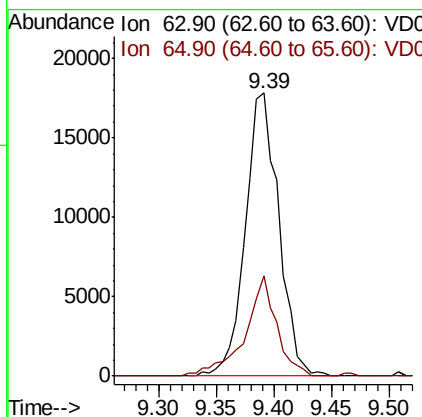
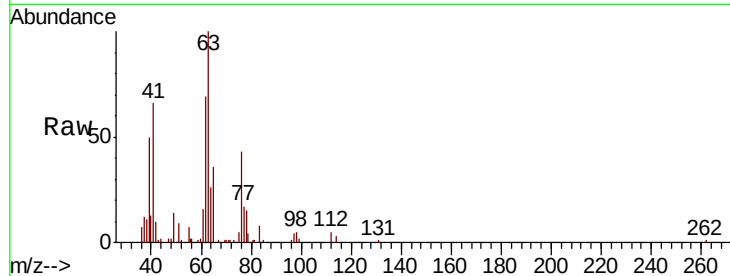
#45
 1,2-Dichloropropane
 Concen: 22.162 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion: 63 Resp: 35977
 Ion Ratio Lower Upper
 63 100
 65 35.6 27.3 40.9

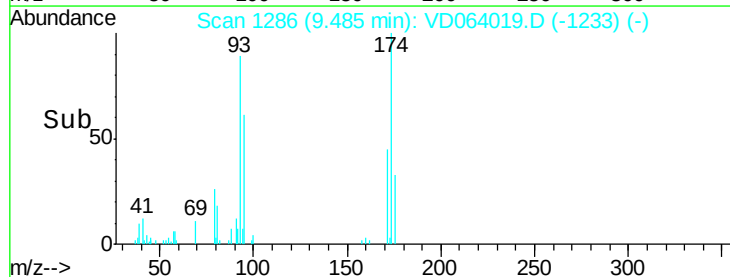
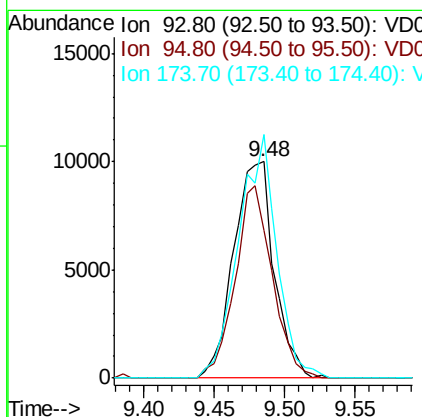
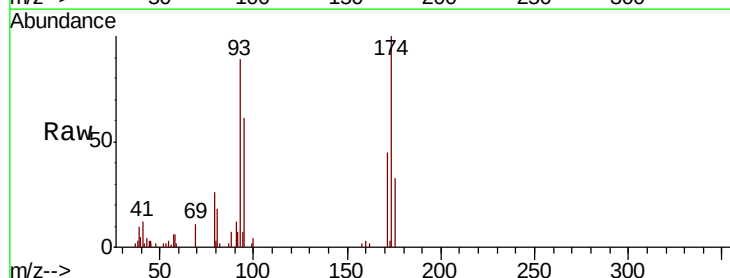
Manual Integrations
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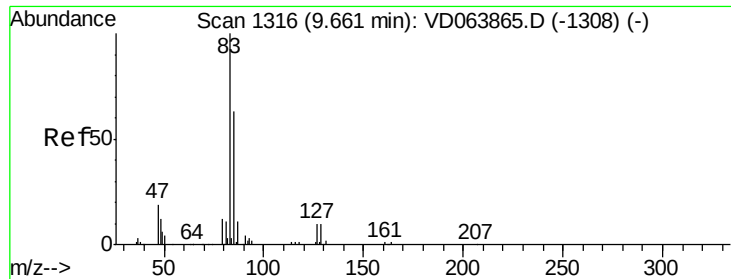
MMDadoda
 10/24/2019 4:53:20 PM



#46
 Dibromomethane
 Concen: 21.792 ug/l
 RT: 9.48 min Scan# 1286
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion: 93 Resp: 20147
 Ion Ratio Lower Upper
 93 100
 95 81.4 66.0 99.0
 174 106.1 83.4 125.0





#47

Bromodichloromethane

Concen: 21.690 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

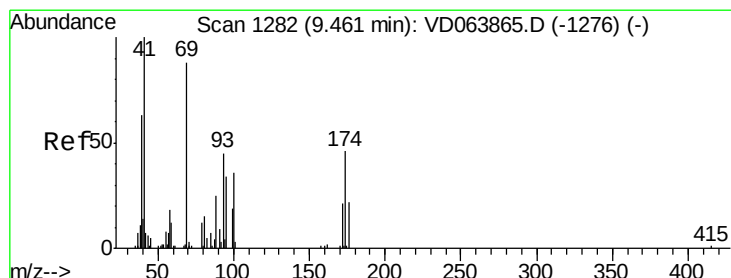
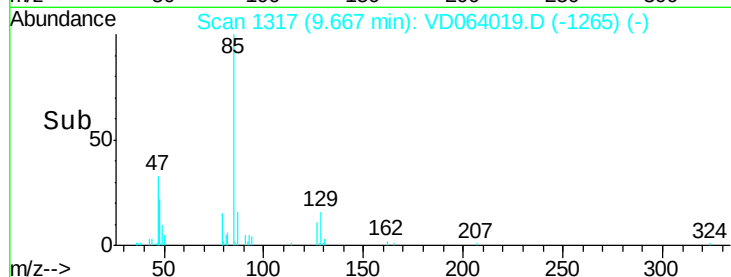
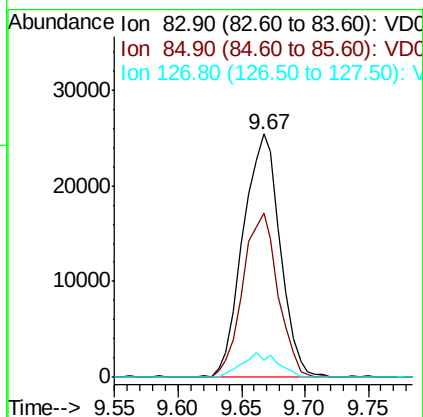
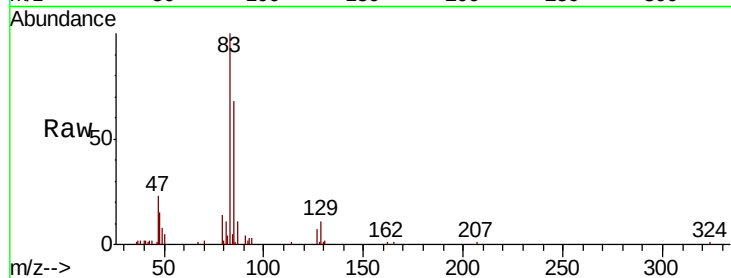
ClientSampleId :

VD1023SBS01

Tot Ion:	83	Resp:	51629
Ion	Ratio	Lower	Upper
83	100		
85	67.7	50.2	75.2
127	7.1	7.6	11.4#

Manual Integrations
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MMDadoda
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#48

Methyl methacrylate

Concen: 19.265 ug/l

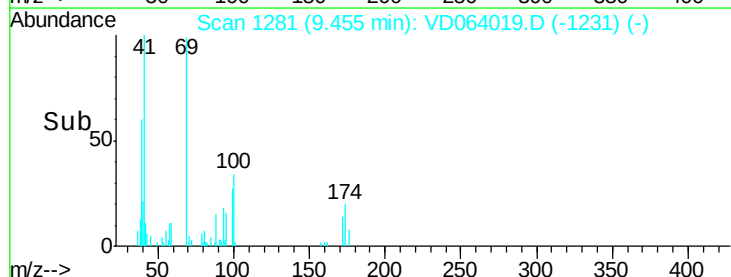
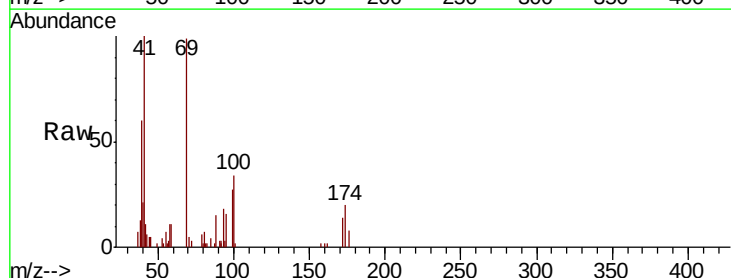
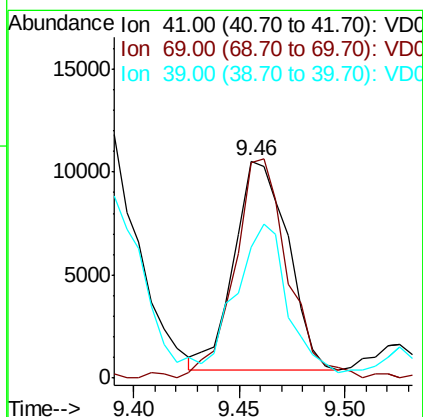
RT: 9.46 min Scan# 1281

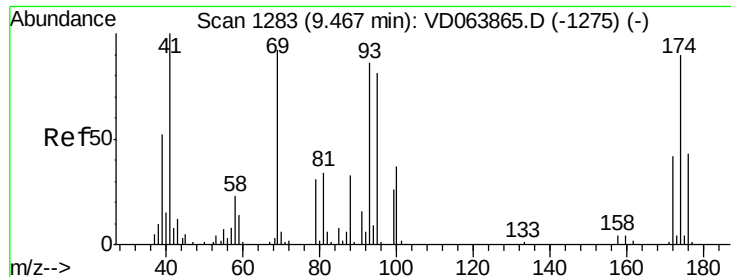
Delta R.T. -0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion:	41	Resp:	17916
Ion	Ratio	Lower	Upper
41	100		
69	104.7	75.1	112.7
39	73.3	50.2	75.2





#49

1,4-Dioxane

Concen: 364.826 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

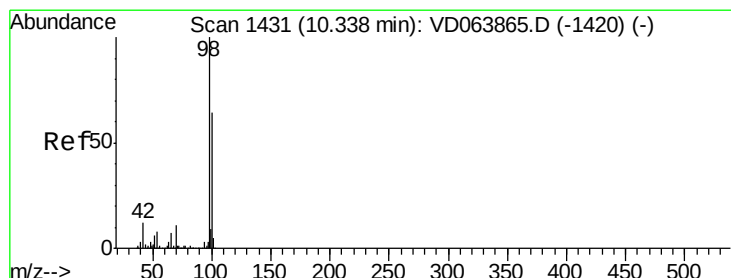
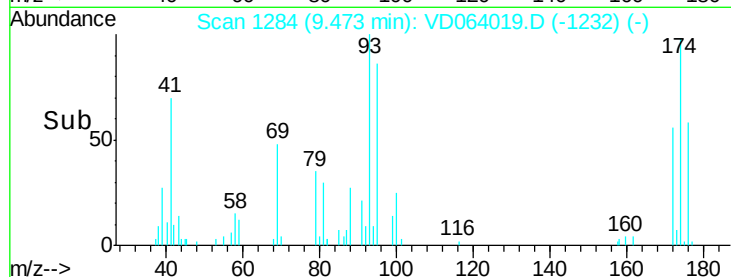
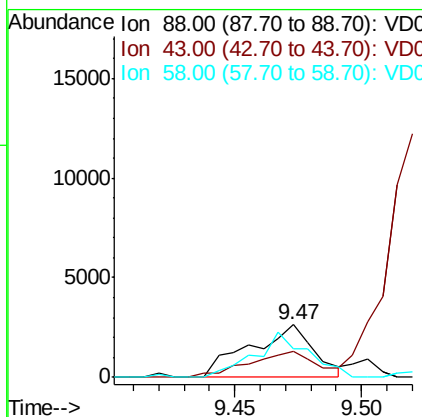
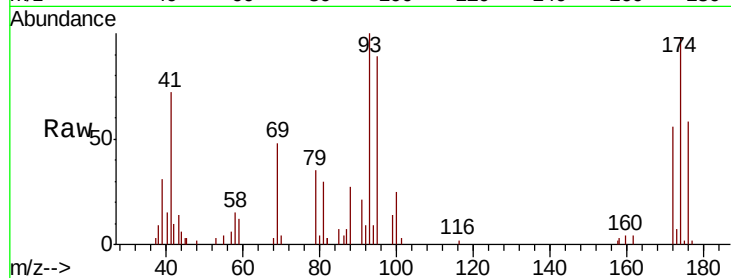
ClientSampleId :

VD1023SBS01

Tot Ion	88	Ratio	100	Resp	4604
Ion	88	100		Lower	Upper
	43	49.2		27.6	41.4#
	58	73.0		54.1	81.1

Manual Integrations
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#50

Toluene-d8

Concen: 54.423 ug/l

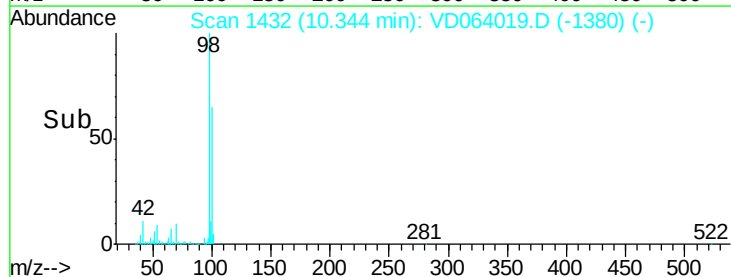
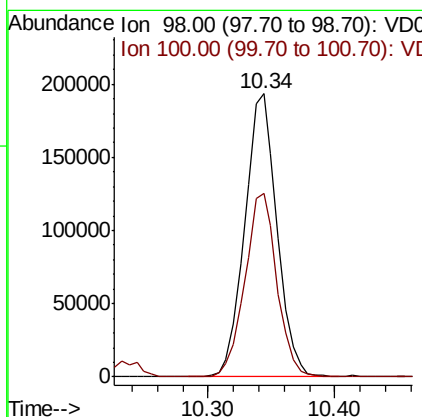
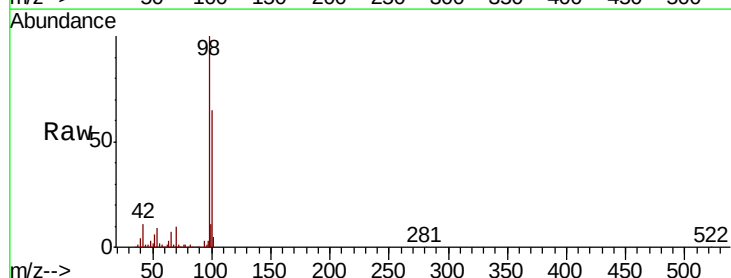
RT: 10.34 min Scan# 1432

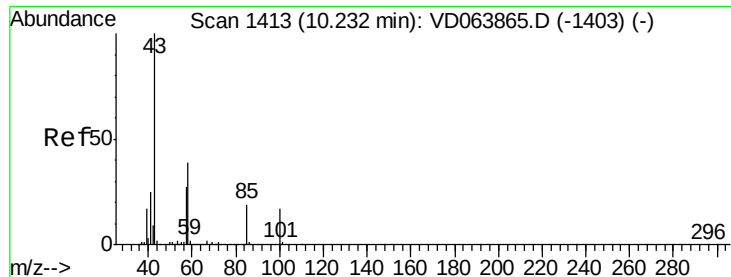
Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion	98	Ratio	100	Resp	341708
Ion	98	100		Lower	Upper
	100	64.8		52.1	78.1





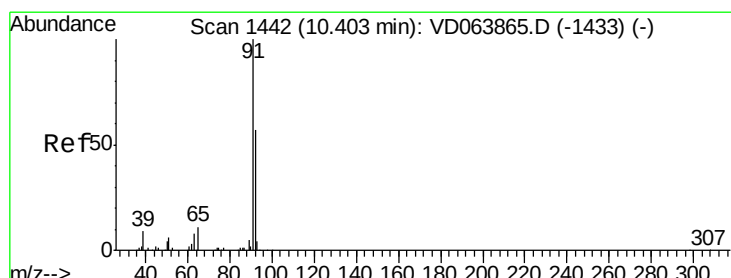
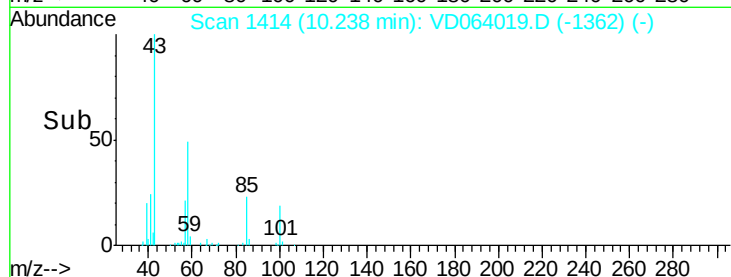
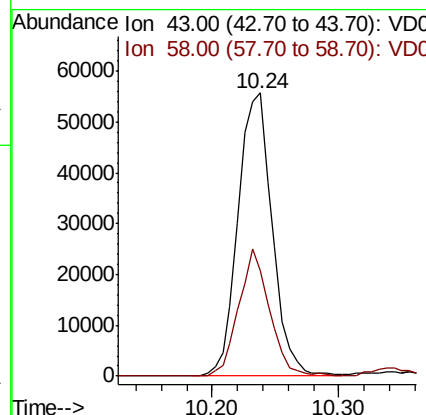
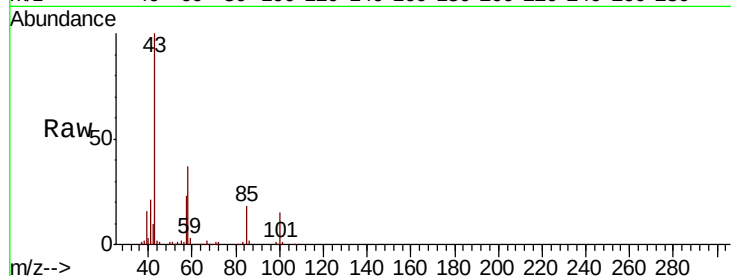
#51
4-Methyl-2-Pentanone
Concen: 103.031 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.5	33.0	49.4

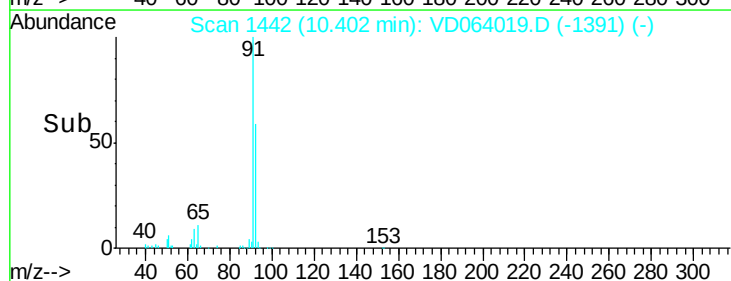
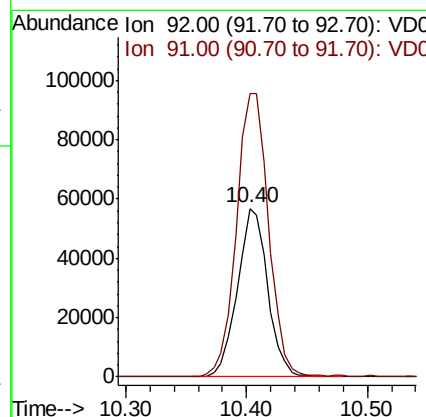
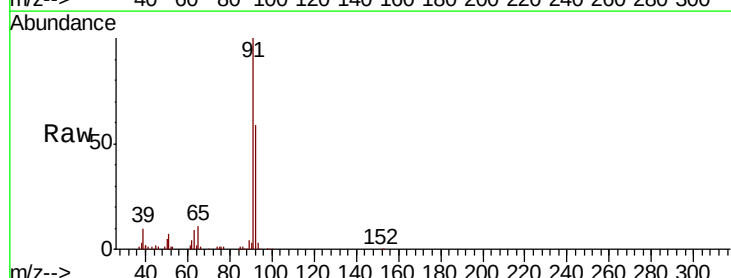
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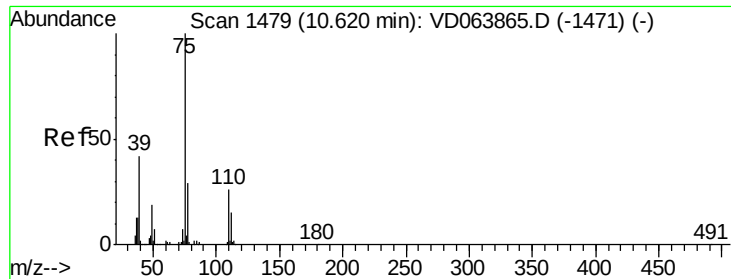
MMDadoda
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#52
Toluene
Concen: 21.727 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
92	100		
91	178.7	139.5	209.3





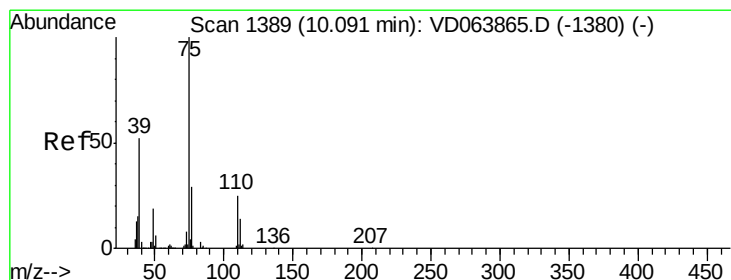
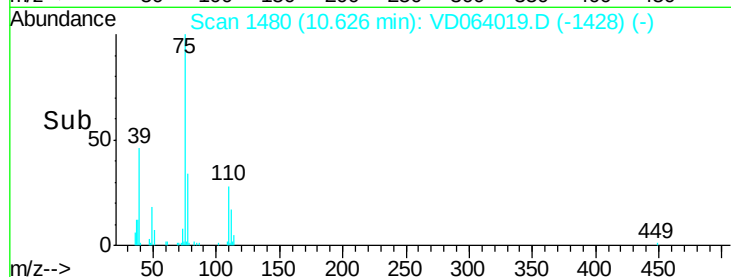
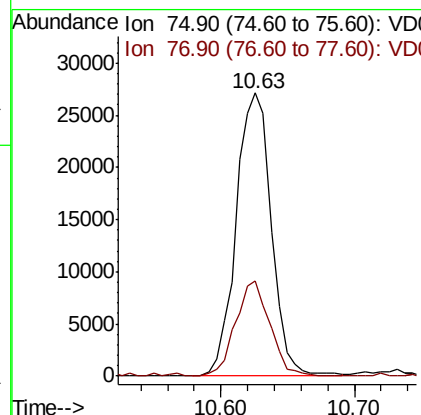
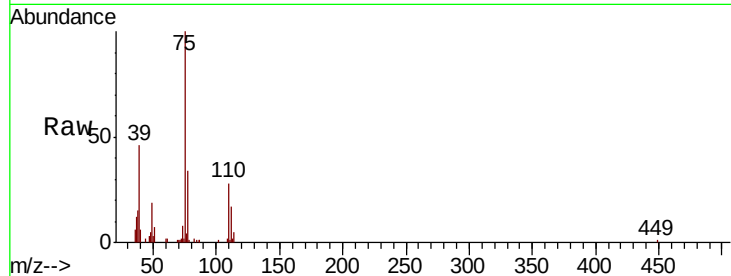
#53
 t-1,3-Dichloropropene
 Concen: 21.322 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion: 75 Resp: 49526
 Ion Ratio Lower Upper
 75 100
 77 33.7 22.8 34.2

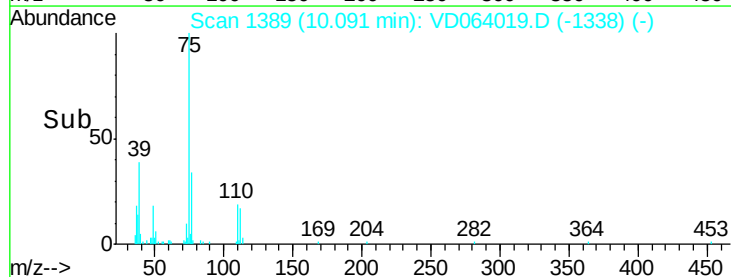
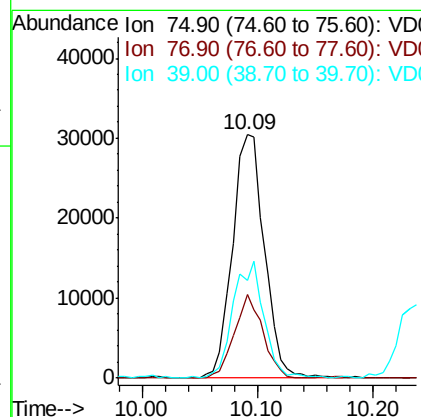
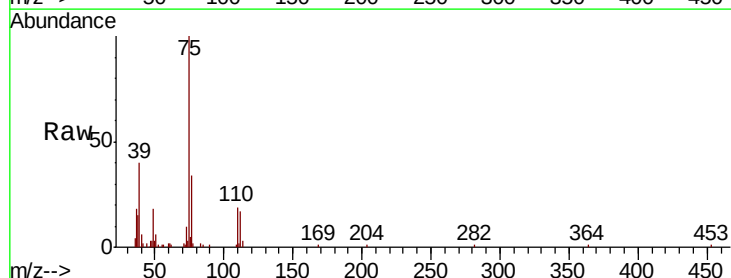
Manual Integrations
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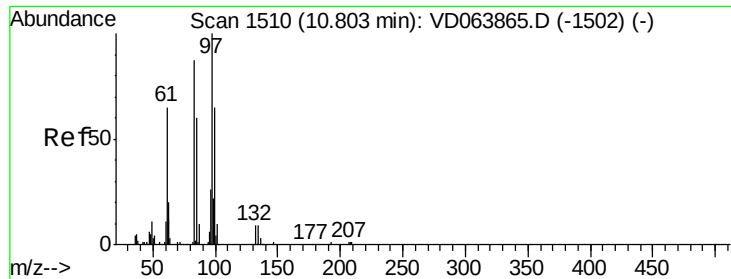
MMDadoda
 10/24/2019 4:53:20 PM



#54
 cis-1,3-Dichloropropene
 Concen: 21.860 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion: 75 Resp: 58447
 Ion Ratio Lower Upper
 75 100
 77 34.1 23.2 34.8
 39 39.5 41.5 62.3#





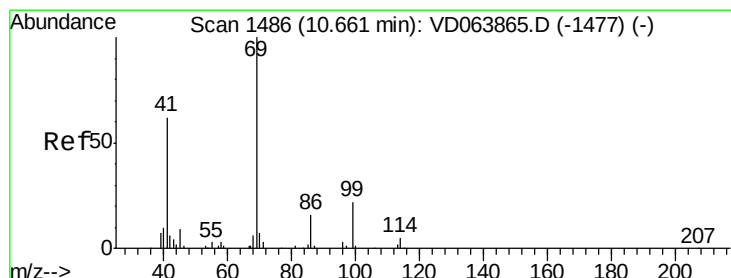
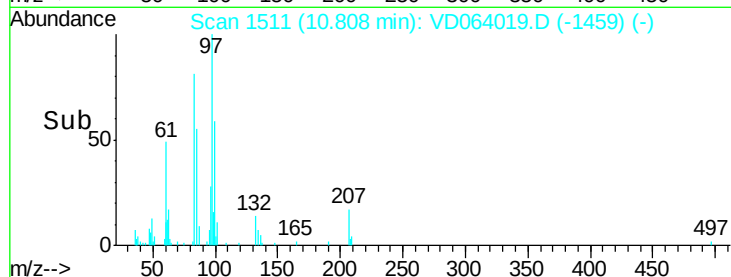
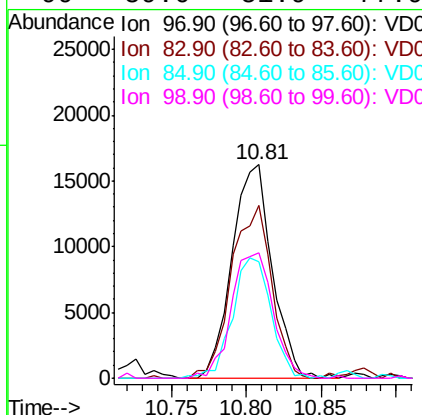
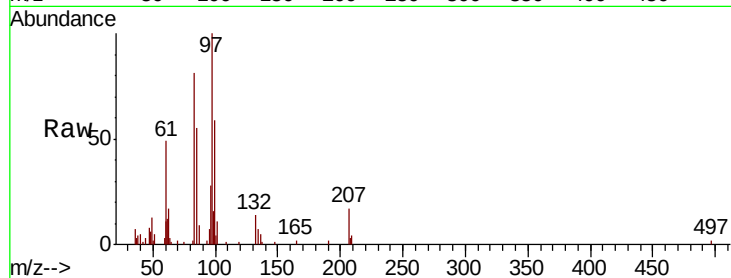
#55
 1,1,2-Trichloroethane
 Concen: 23.319 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion:	97	Resp:	30440
Ion	Ratio	Lower	Upper
97	100		
83	81.0	69.7	104.5
85	53.3	48.1	72.1
99	59.0	51.9	77.9

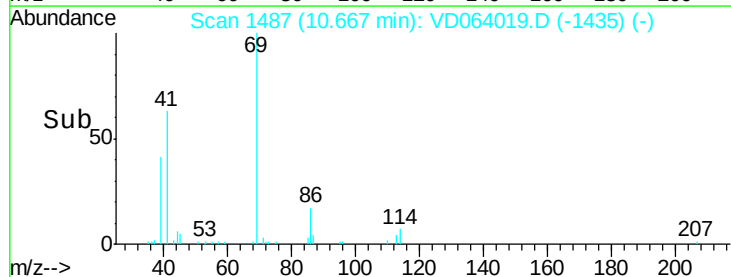
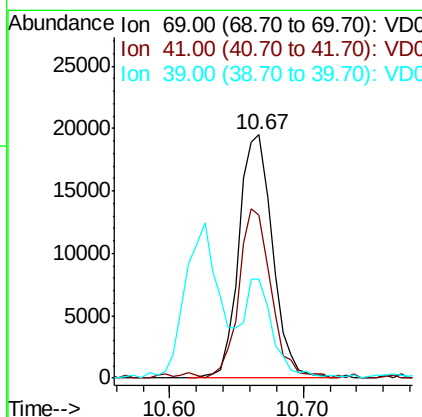
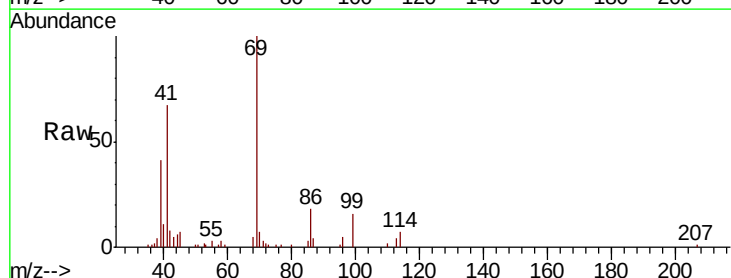
Manual Integrations
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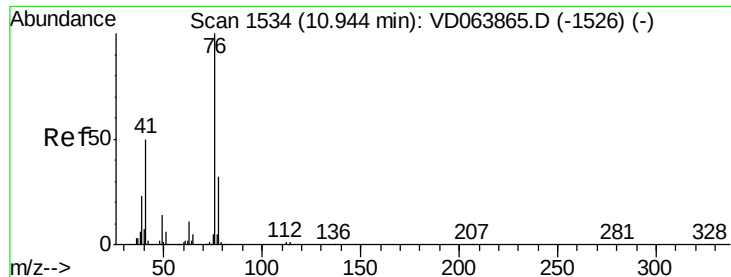
MMDadoda
 10/24/2019 4:53:20 PM



#56
 Ethyl methacrylate
 Concen: 20.497 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion:	69	Resp:	33883
Ion	Ratio	Lower	Upper
69	100		
41	66.9	51.3	76.9
39	34.5	28.0	42.0





#57

1,3-Dichloropropane

Concen: 21.622 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 76 Resp: 48293

Ion Ratio Lower Upper

76 100

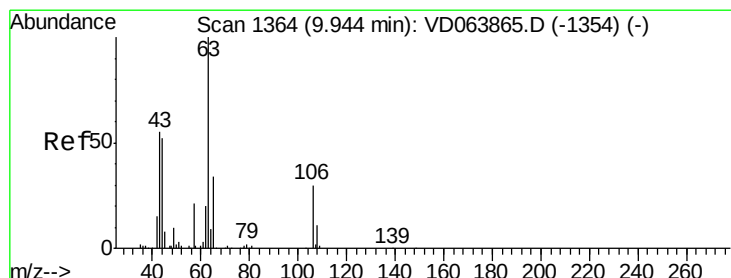
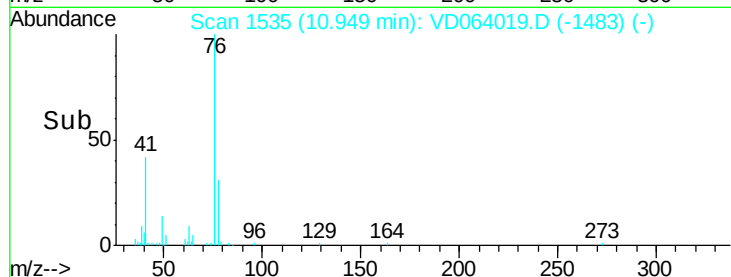
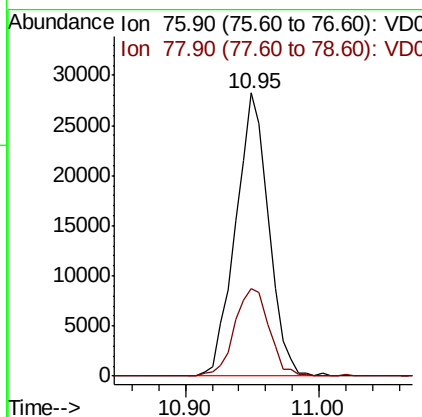
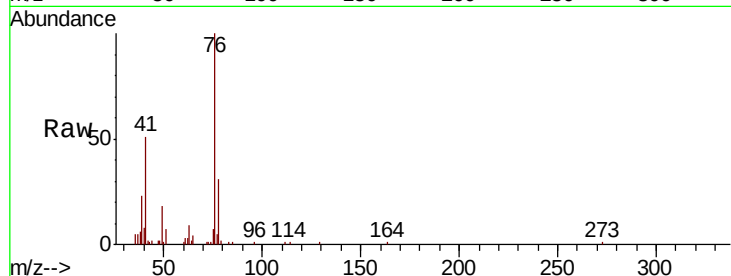
78 32.5 26.6 40.0

Manual Integrations

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MMDadoda

10/24/2019 4:53:20 PM



#58

2-Chloroethyl Vinyl ether

Concen: 99.320 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD064019.D

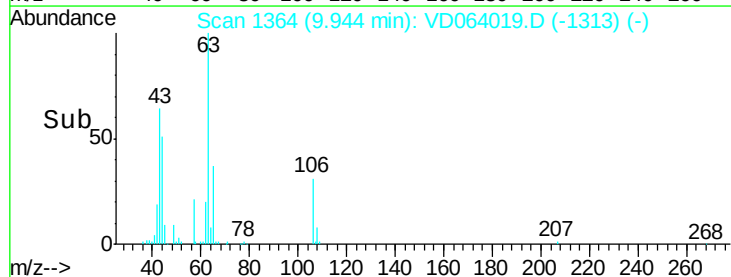
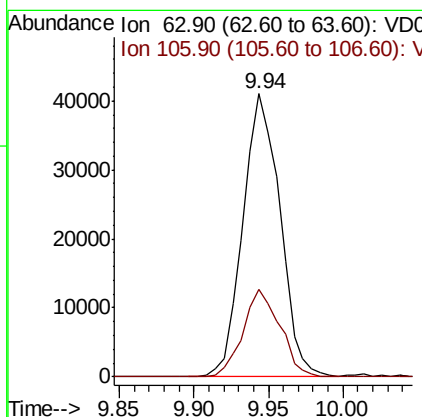
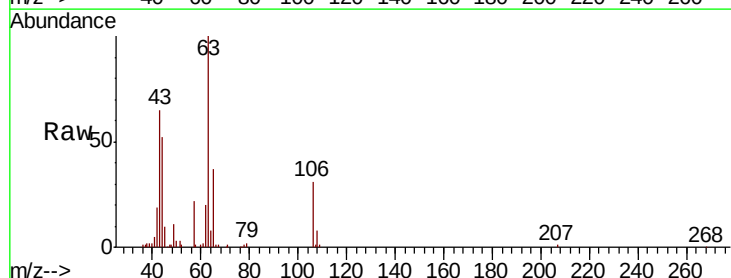
Acq: 23 Oct 2019 14:26

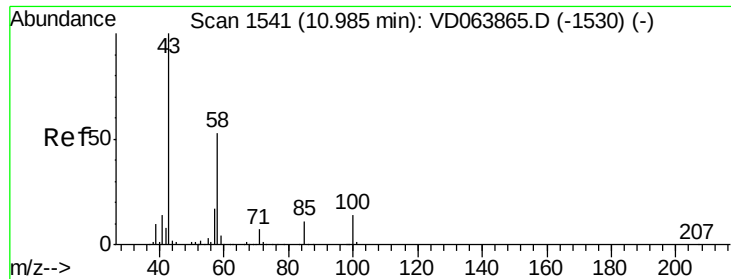
Tgt Ion: 63 Resp: 70573

Ion Ratio Lower Upper

63 100

106 30.7 24.3 36.5





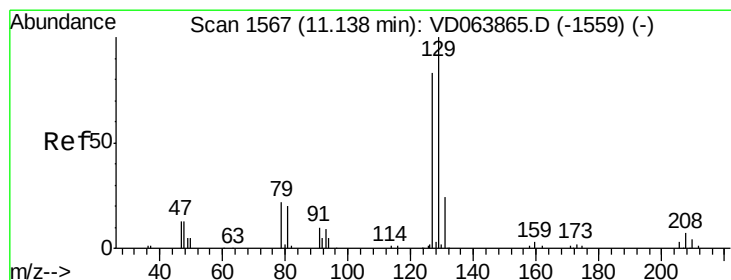
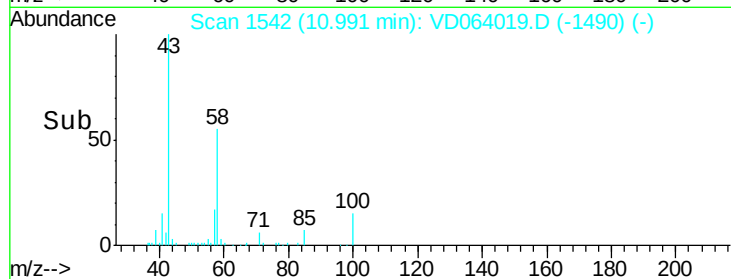
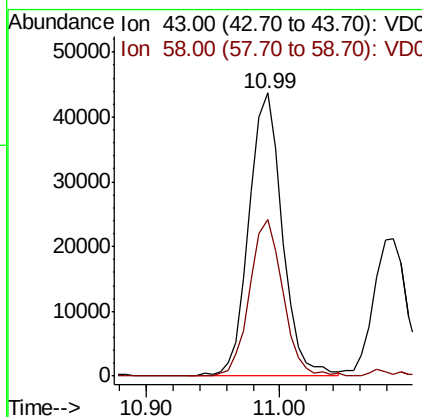
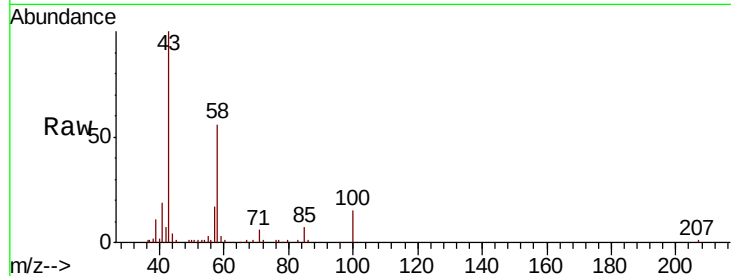
#59
2-Hexanone
Concen: 103.392 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion: 43 Resp: 75285
Ion Ratio Lower Upper
43 100
58 54.9 27.7 83.0

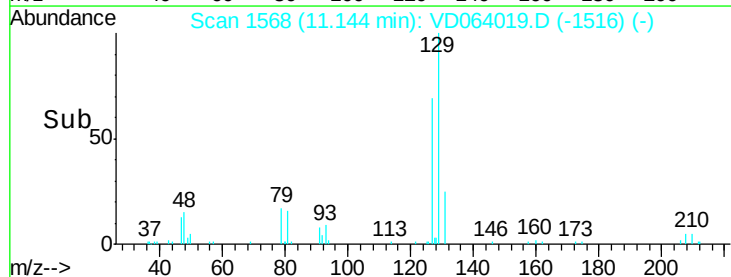
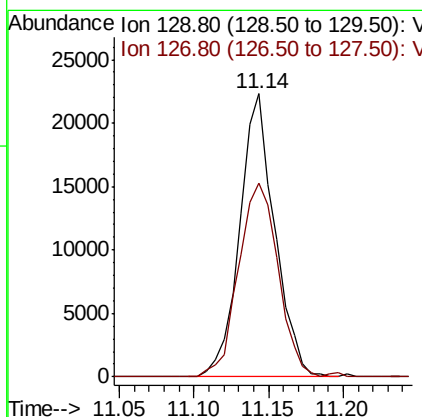
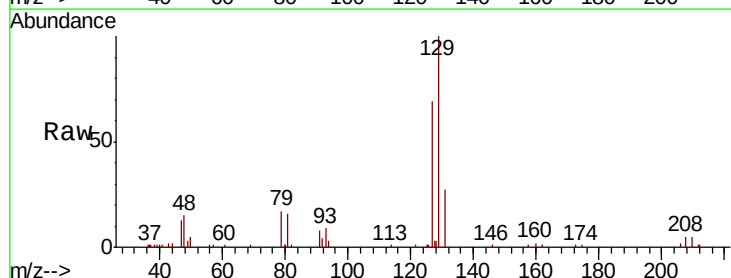
Manual Integrations
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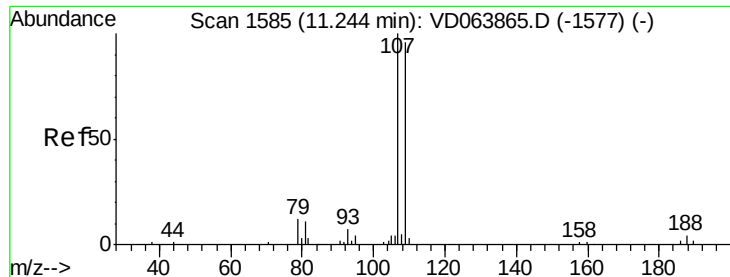
MMDadoda
10/24/2019 4:53:20 PM



#60
Dibromochloromethane
Concen: 21.318 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion:129 Resp: 36229
Ion Ratio Lower Upper
129 100
127 77.3 39.9 119.6





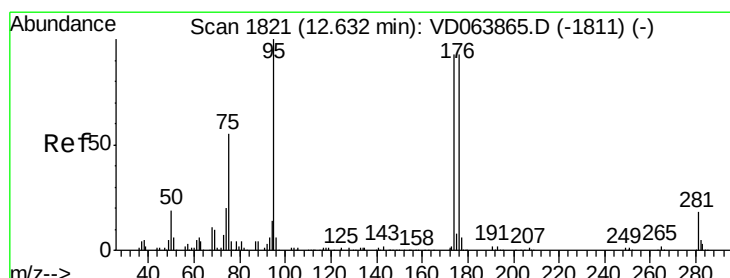
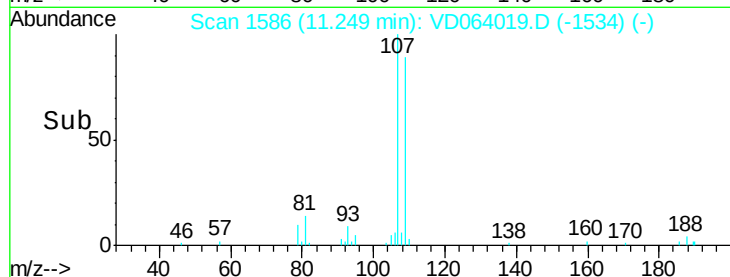
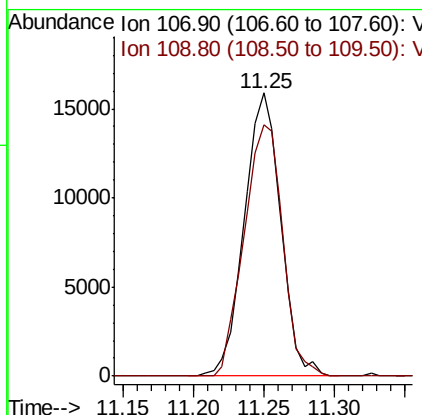
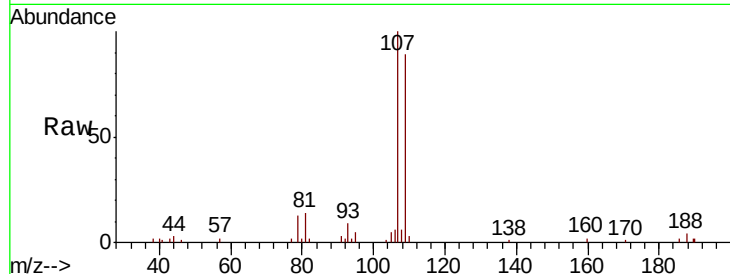
#61
 1,2-Dibromoethane
 Concen: 22.775 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion: 107 Resp: 28823
 Ion Ratio Lower Upper
 107 100
 109 93.9 75.2 112.8

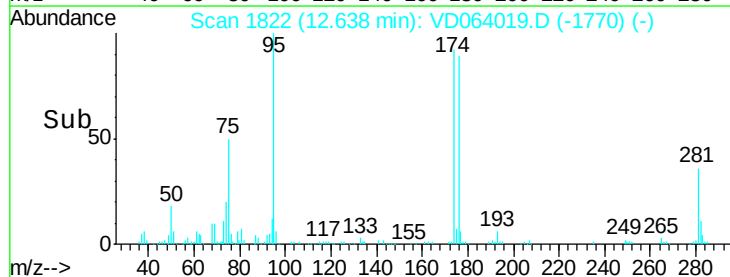
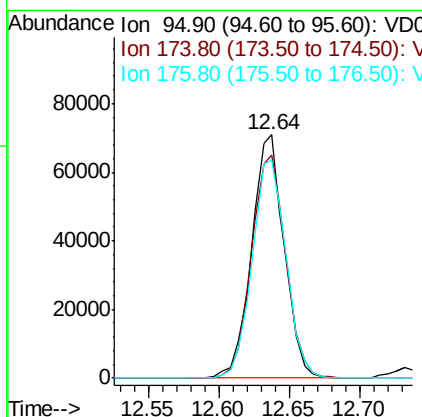
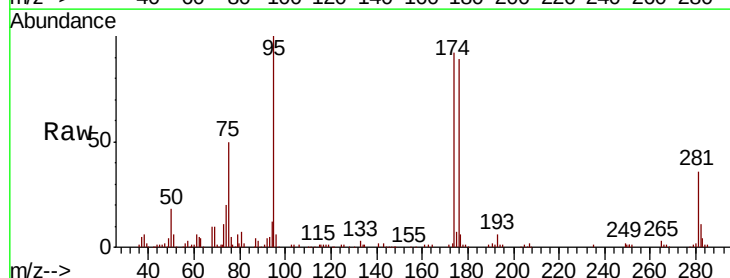
Manual Integrations
 APPROVED

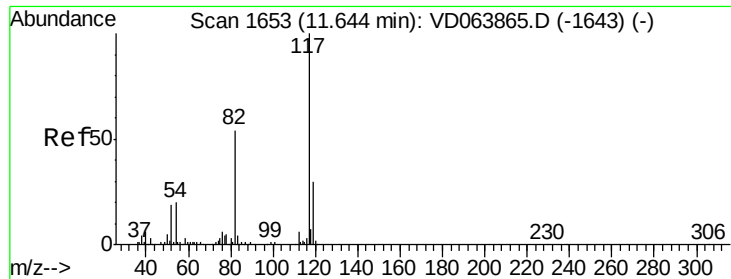
MMDadoda
 10/24/2019 4:53:20 PM



#62
 4-Bromofluorobenzene
 Concen: 52.652 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion: 95 Resp: 114880
 Ion Ratio Lower Upper
 95 100
 174 96.3 0.0 186.4
 176 93.4 0.0 184.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

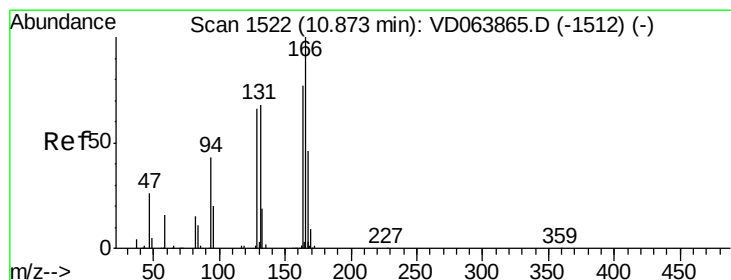
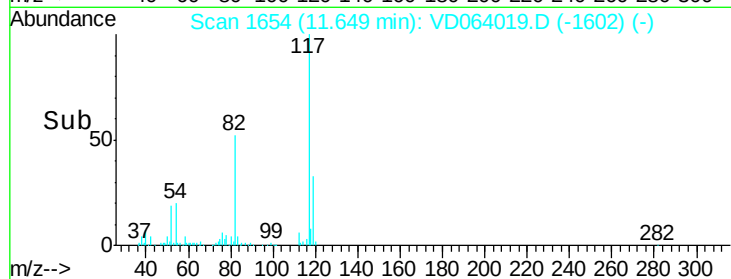
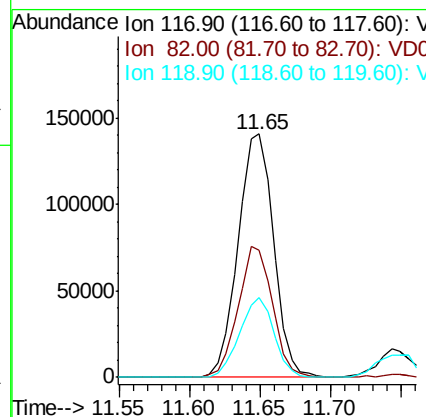
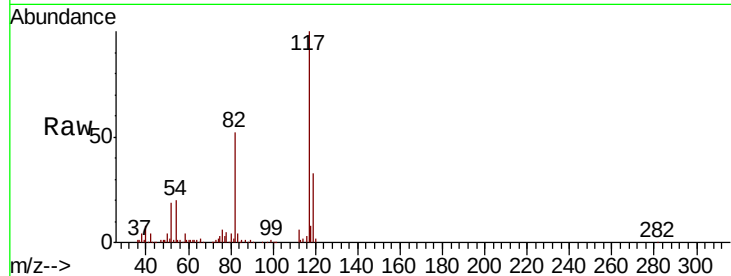
ClientSampleId :

VD1023SBS01

Tot Ion:	117	Resp:	248431
Ion Ratio	Lower	Upper	
117	100		
82	52.1	42.8	64.2
119	32.9	24.4	36.6

Manual Integrations
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#64

Tetrachloroethene

Concen: 22.033 ug/l

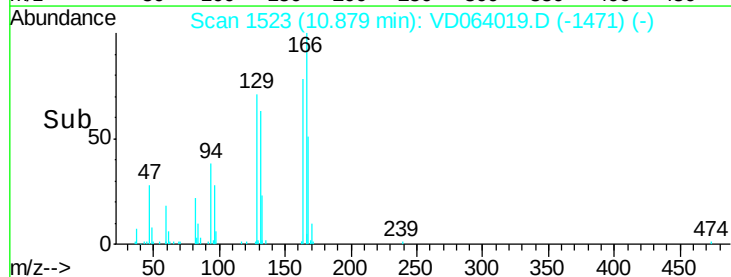
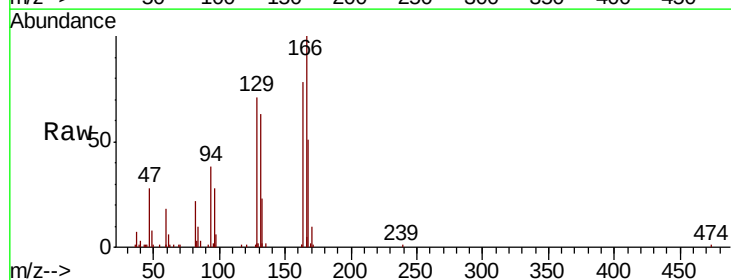
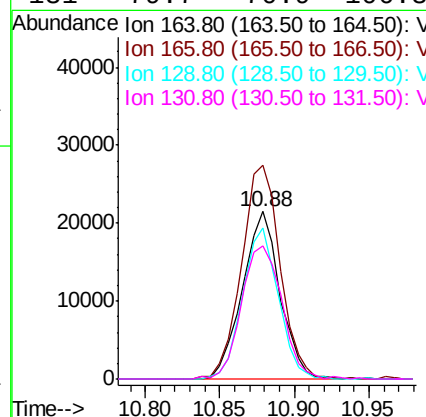
RT: 10.88 min Scan# 1523

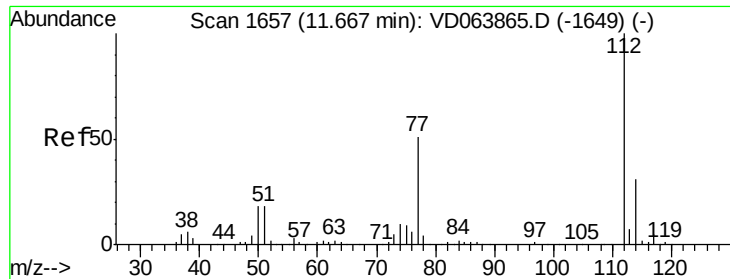
Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion:	164	Resp:	37367
Ion Ratio	Lower	Upper	
164	100		
166	127.6	103.8	155.6
129	90.6	68.9	103.3
131	79.7	70.9	106.3





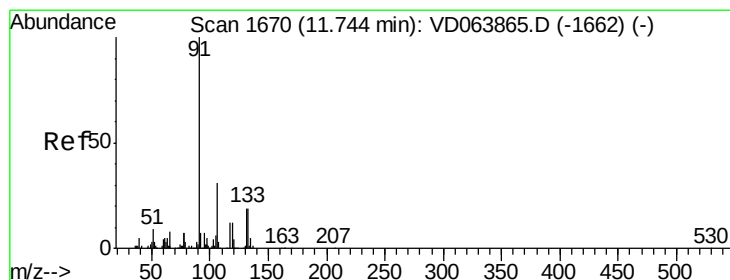
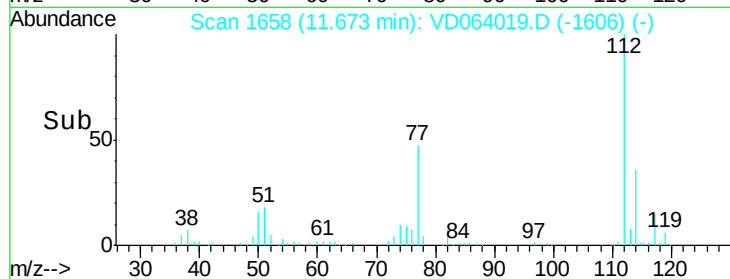
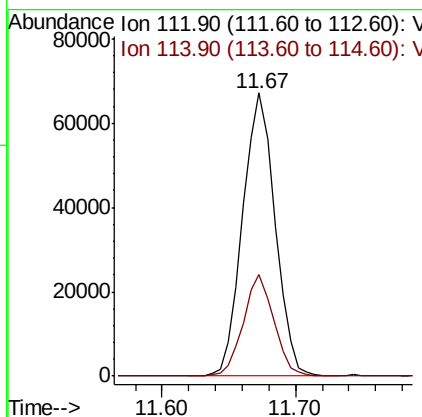
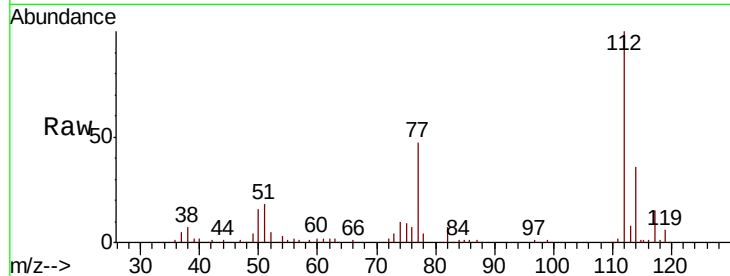
#65
Chlorobenzene
Concen: 22.610 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion:112 Resp: 112804
Ion Ratio Lower Upper
112 100
114 35.8 25.1 37.7

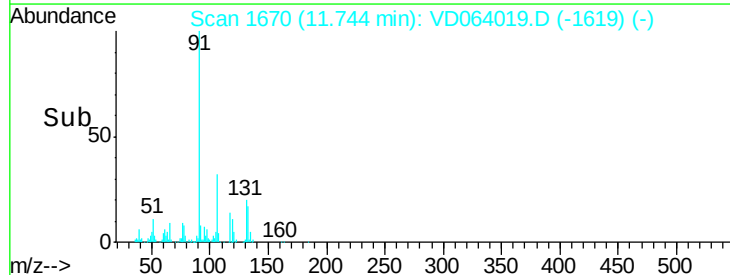
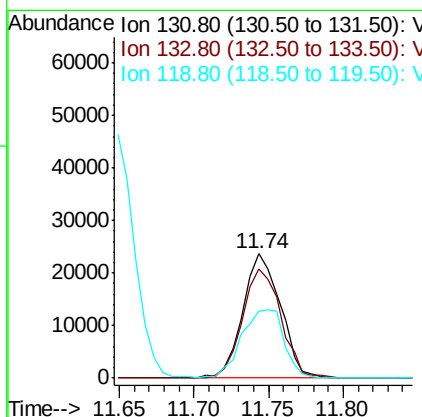
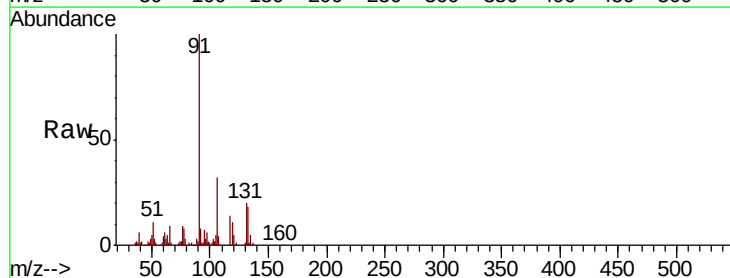
Manual Integrations
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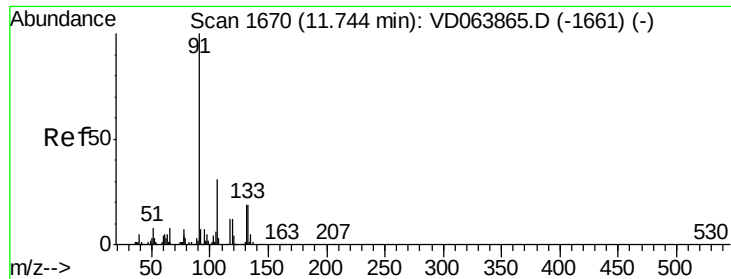
MMDadoda
10/24/2019 4:53:20 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.438 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion:131 Resp: 41250
Ion Ratio Lower Upper
131 100
133 89.7 48.9 146.7
119 62.3 32.6 97.8





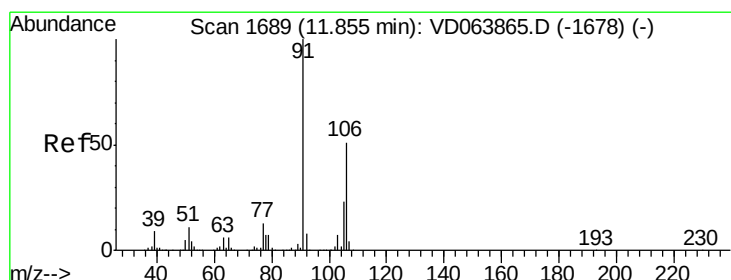
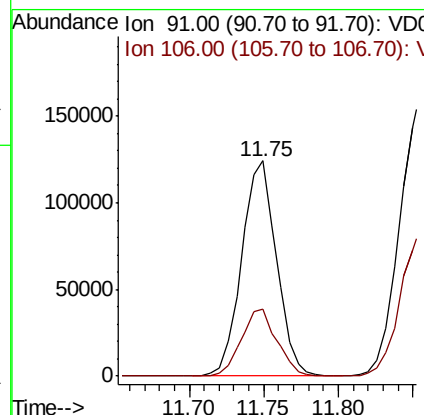
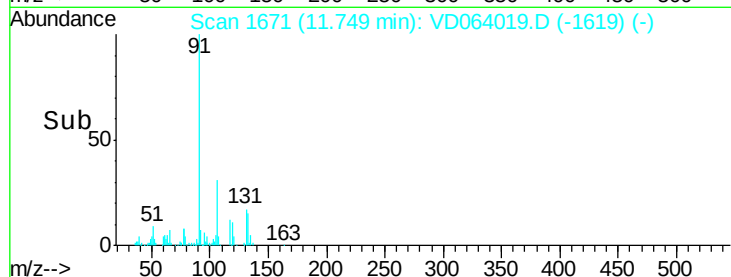
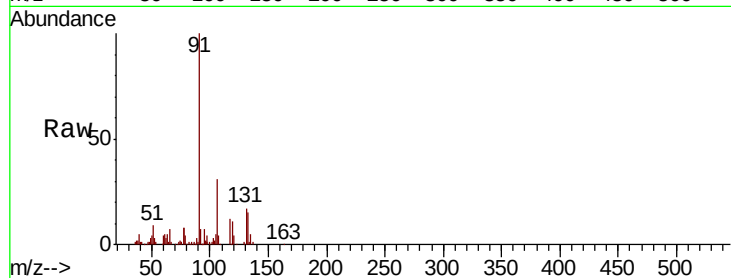
#67
Ethyl Benzene
Concen: 22.331 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion: 91 Resp: 200902
Ion Ratio Lower Upper
91 100
106 31.2 24.6 37.0

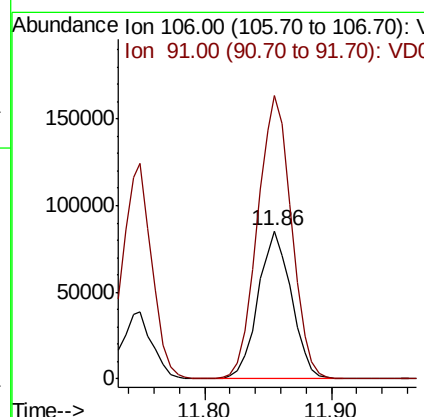
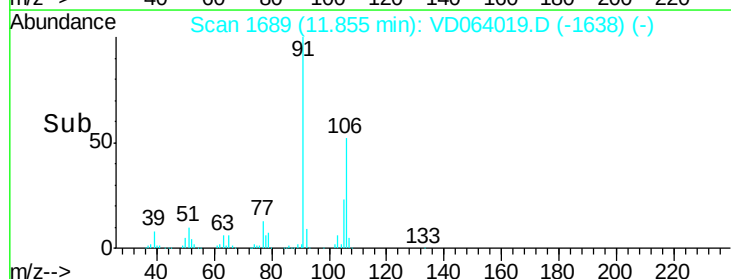
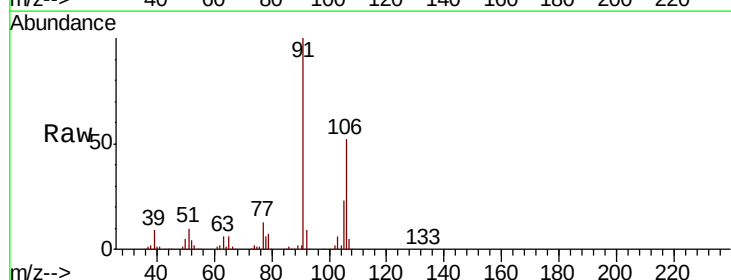
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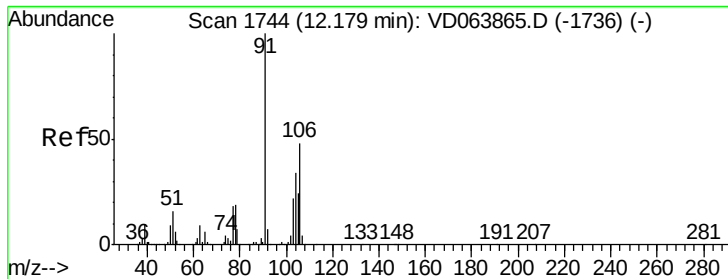
MMDadoda
10/24/2019 4:53:20 PM



#68
m/p-Xylenes
Concen: 45.022 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion: 106 Resp: 156336
Ion Ratio Lower Upper
106 100
91 195.0 154.8 232.2





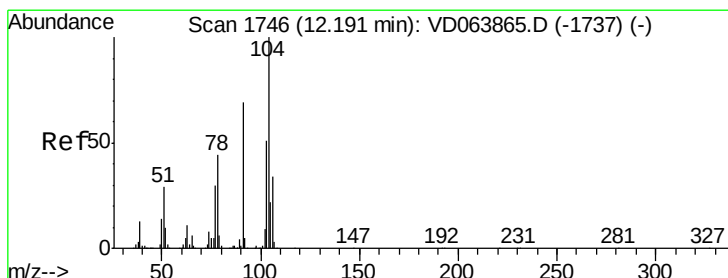
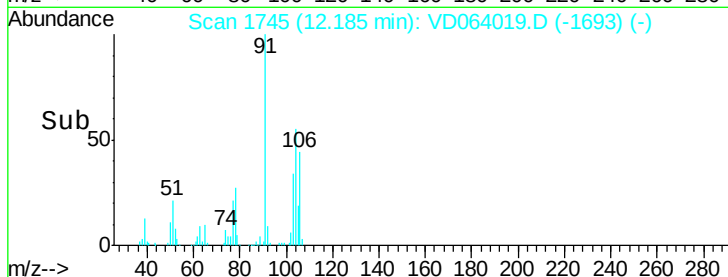
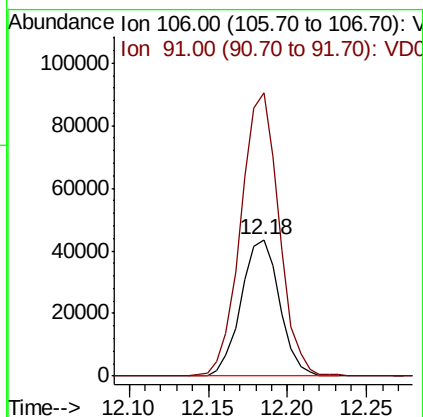
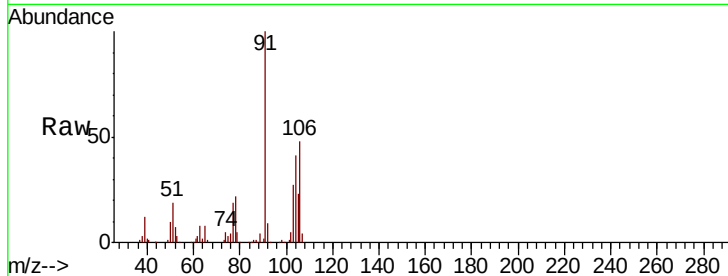
#69
o-Xylene
Concen: 22.084 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	206.8	103.9	311.7	

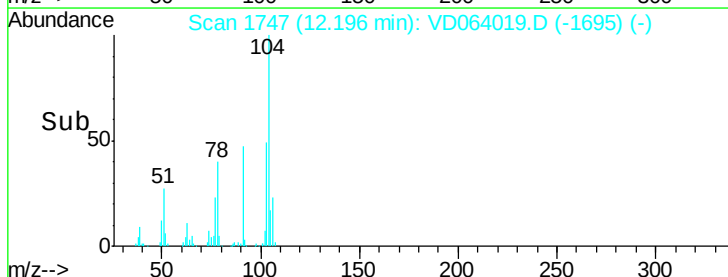
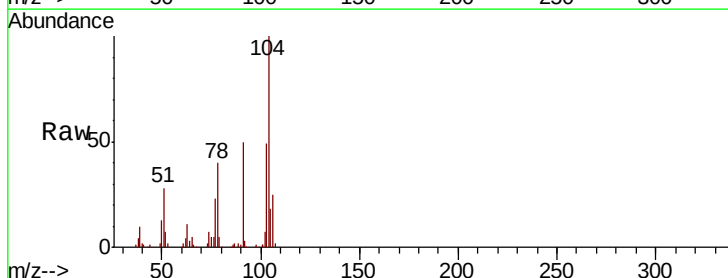
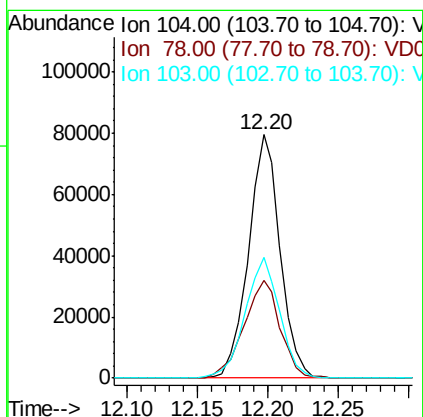
Manual Integrations
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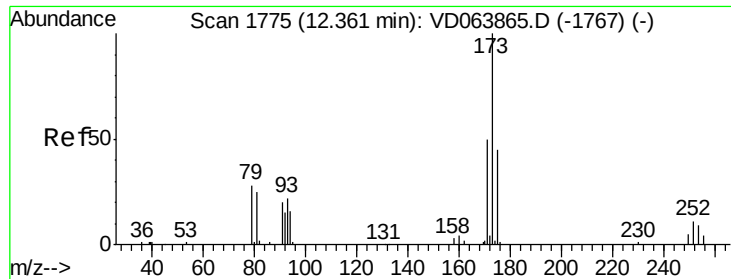
MMDadoda
10/24/2019 4:53:20 PM



#70
Styrene
Concen: 22.225 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	45.8	37.0	55.4	
103	53.9	44.2	66.4	





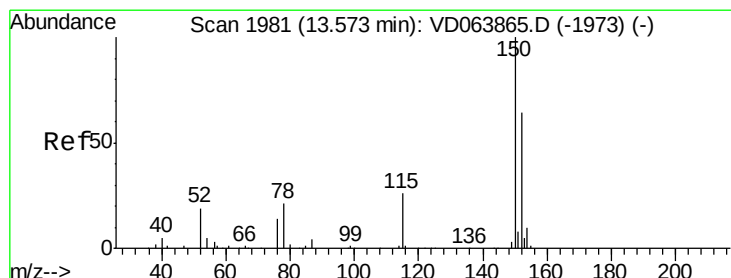
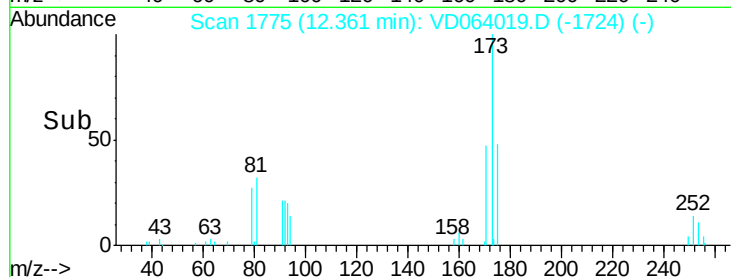
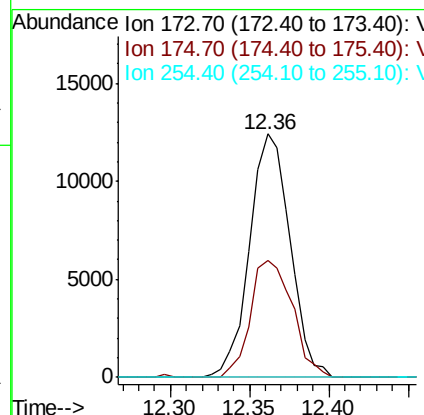
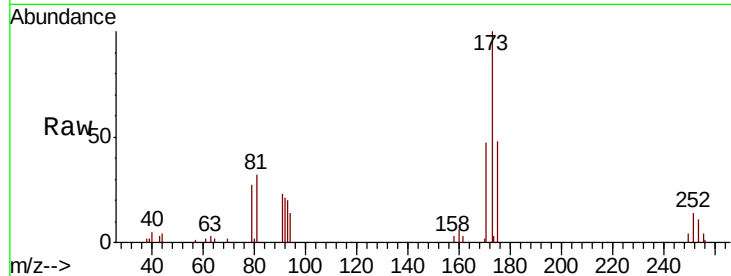
#71
Bromoform
Concen: 22.360 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	24.6	74.0
254	0.0	0.0	0.0

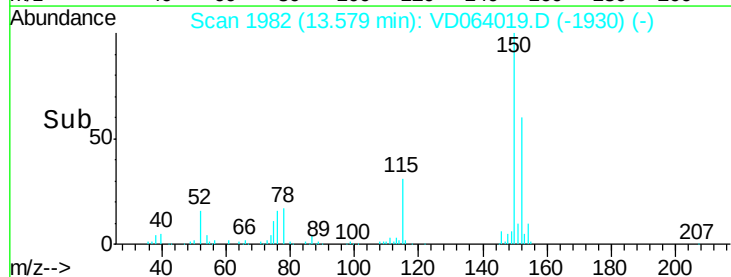
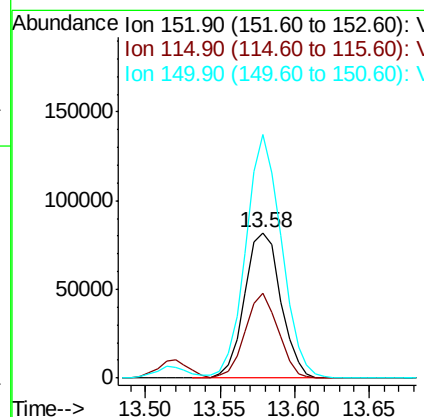
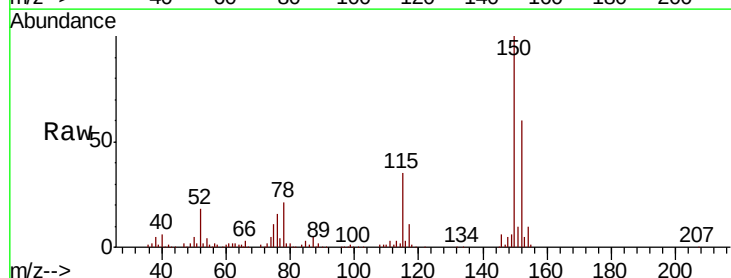
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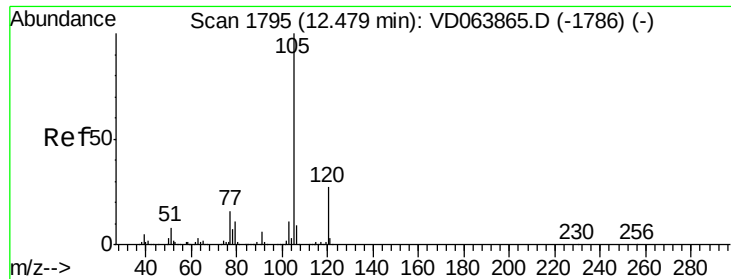
MMDadoda
10/24/2019 4:53:20 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.2	25.9	77.7
150	165.1	0.0	344.2





#73

Isopropylbenzene

Concen: 21.895 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

VD1023SBS01

Tot Ion: 105 Resp: 202574

Ion Ratio Lower Upper

105 100

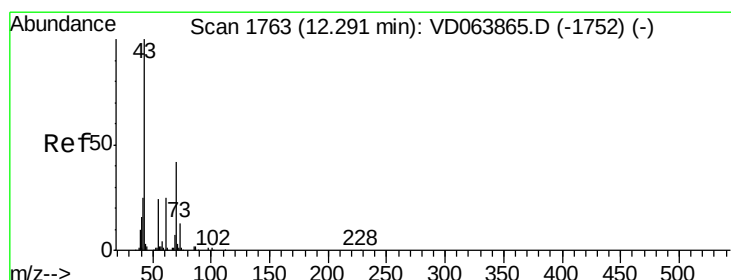
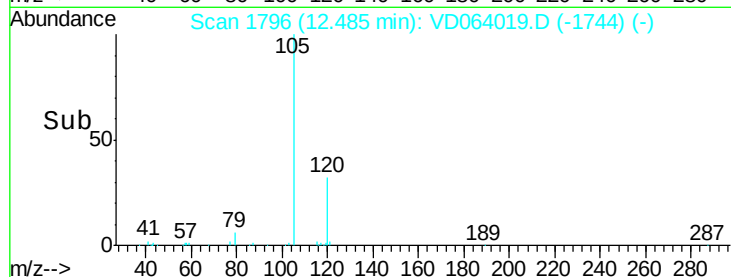
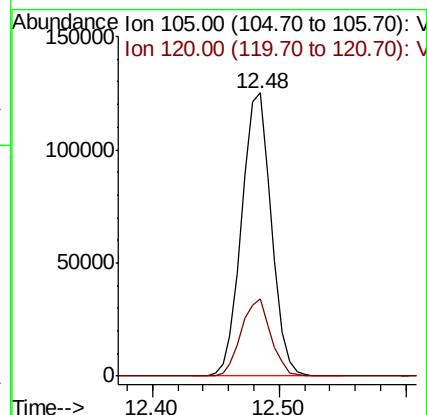
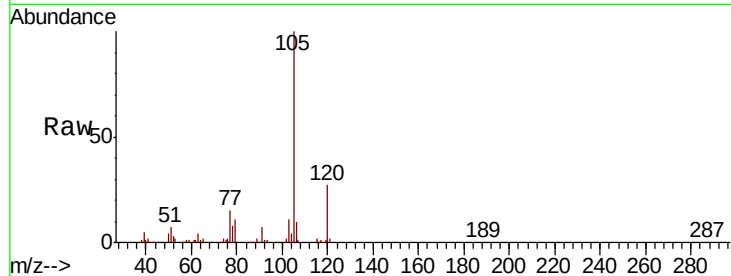
120 27.2 13.3 39.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 19.773 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion: 43 Resp: 39388

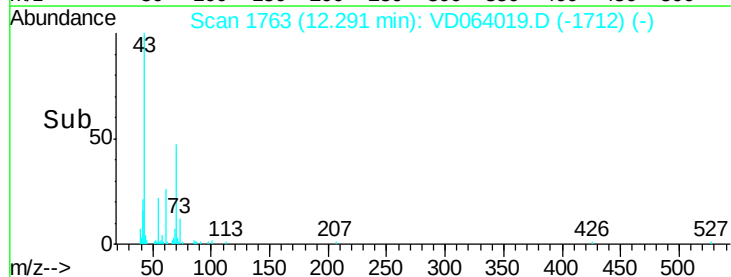
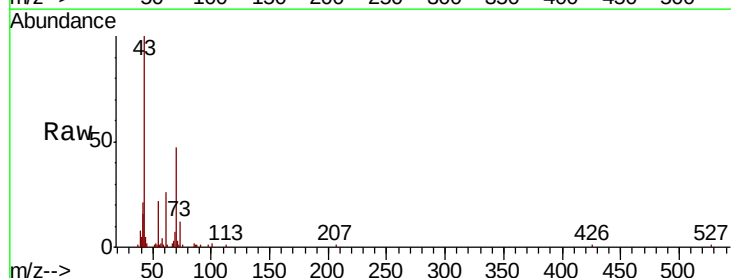
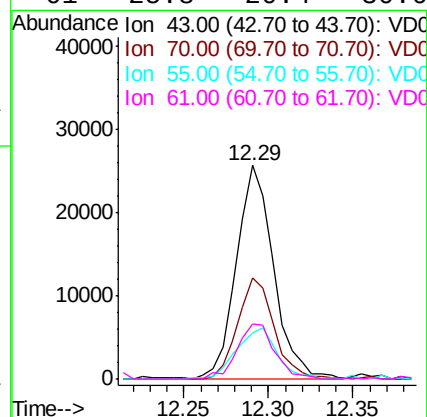
Ion Ratio Lower Upper

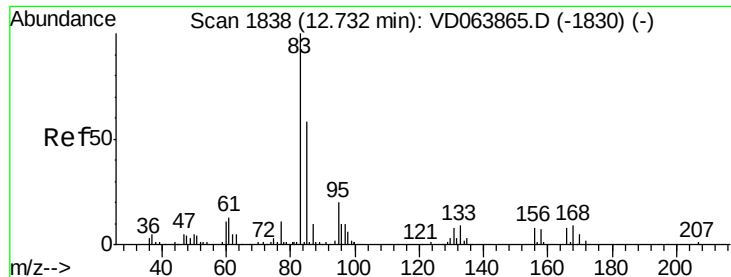
43 100

70 46.5 35.8 53.6

55 26.3 19.4 29.0

61 25.8 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.550 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

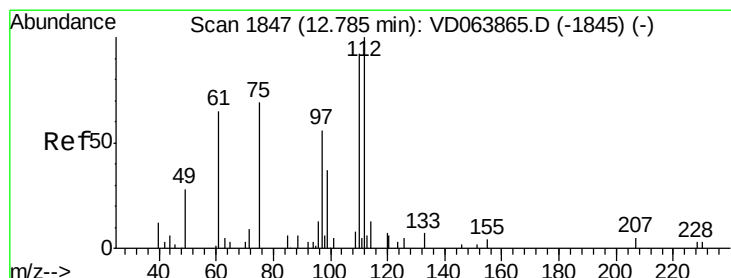
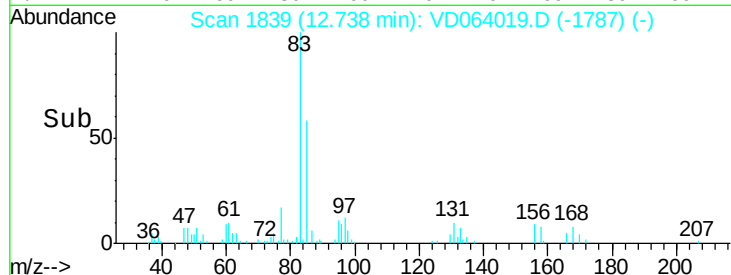
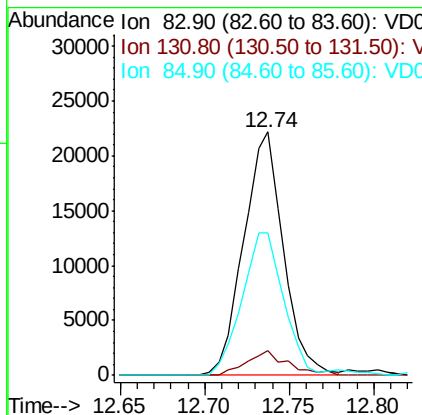
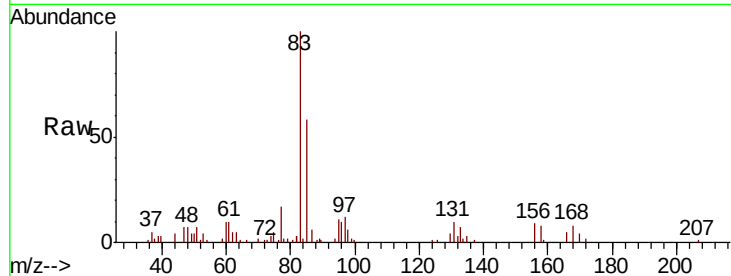
ClientSampleId :

VD1023SBS01

Tot Ion:	83	Resp:	36305
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.6	16.8
85	61.4	32.3	96.8

Manual Integrations
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10/24/2019 4:53:20 PM



#76

1,2,3-Trichloropropane

Concen: 26.016 ug/l m

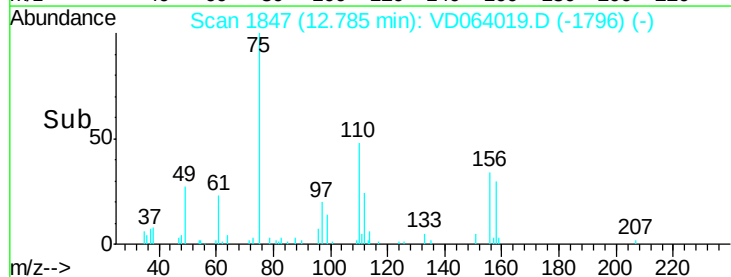
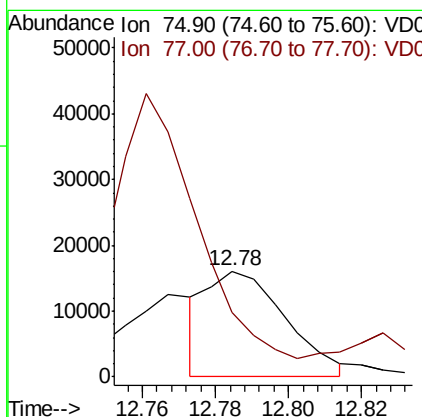
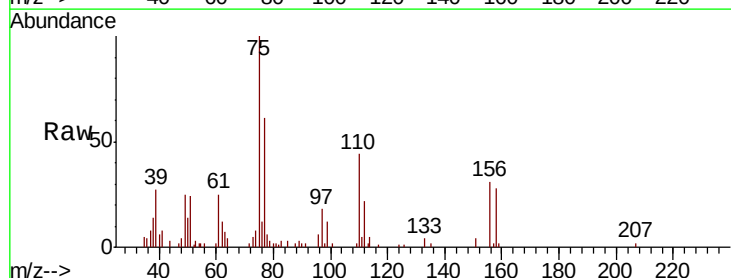
RT: 12.78 min Scan# 1847

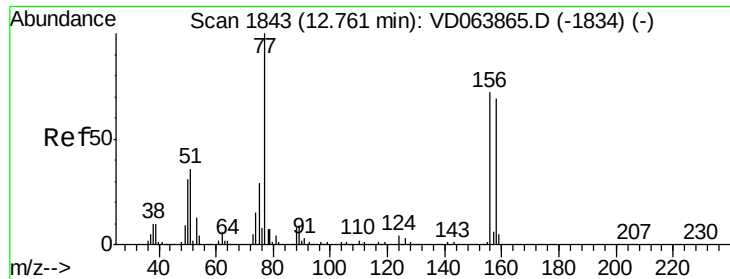
Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion:	75	Resp:	23981
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





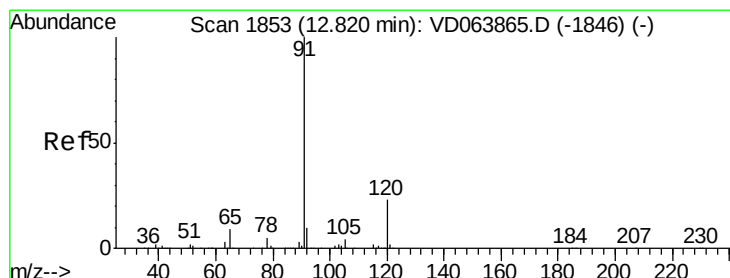
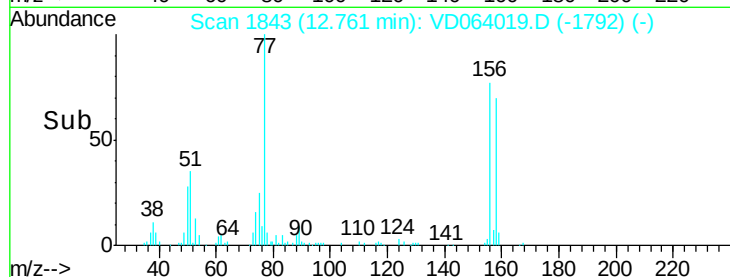
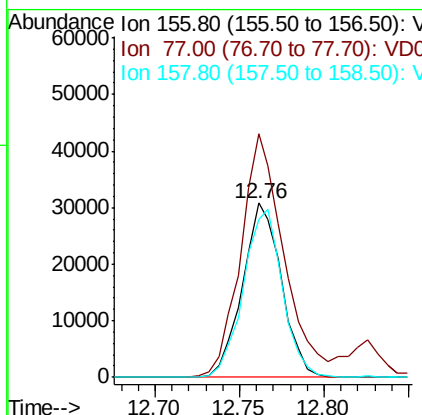
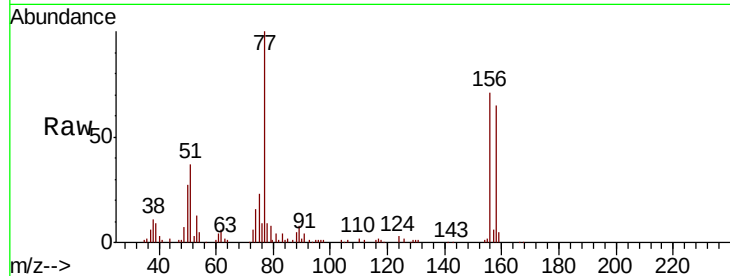
#77
Bromobenzene
Concen: 21.460 ug/l
RT: 12.76 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	154.0	80.3	241.0	
158	96.5	47.4	142.2	

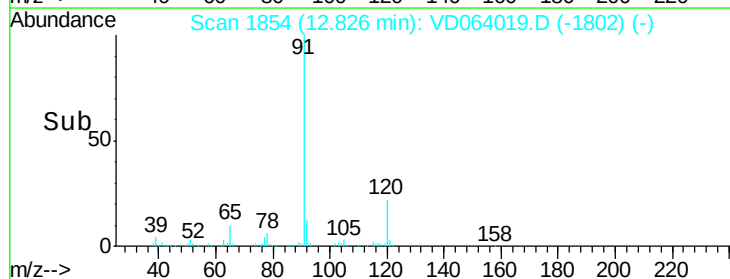
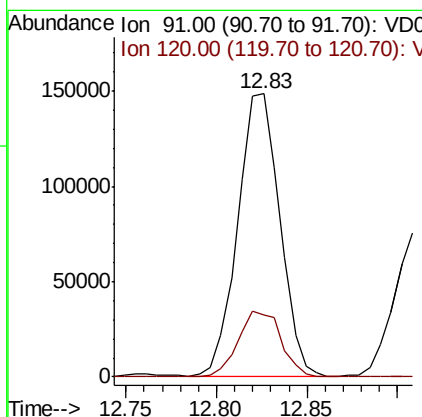
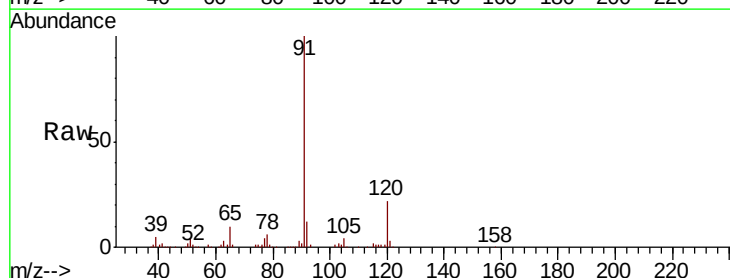
Manual Integrations
APPROVED

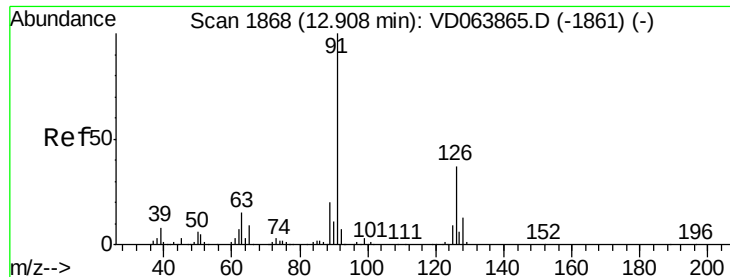
MMDadoda
10/24/2019 4:53:20 PM



#78
n-propylbenzene
Concen: 22.215 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.7	12.0	36.0	





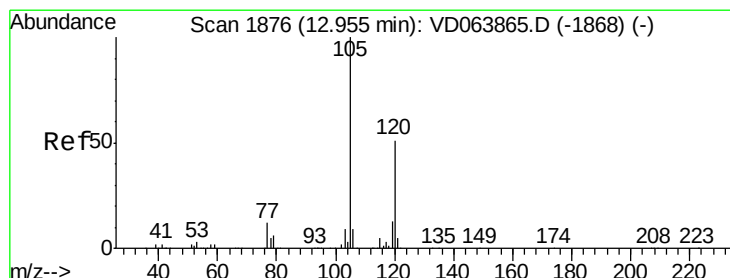
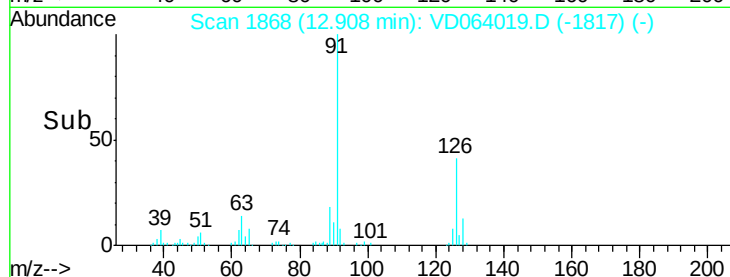
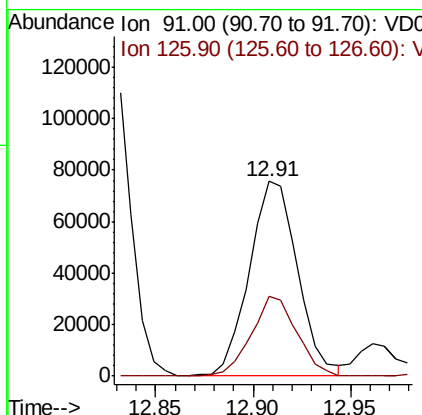
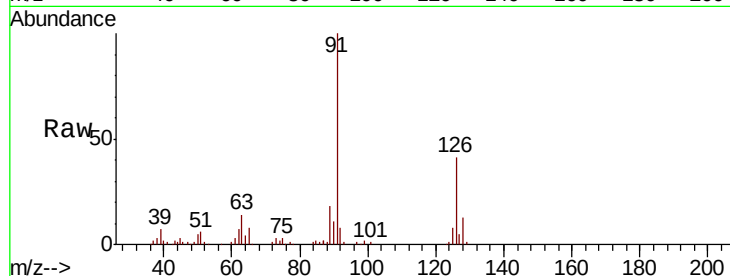
#79
 2-Chlorotoluene
 Concen: 21.726 ug/l
 RT: 12.91 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	38.4	18.4	55.2

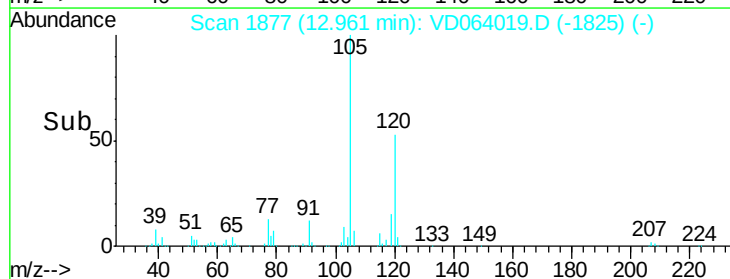
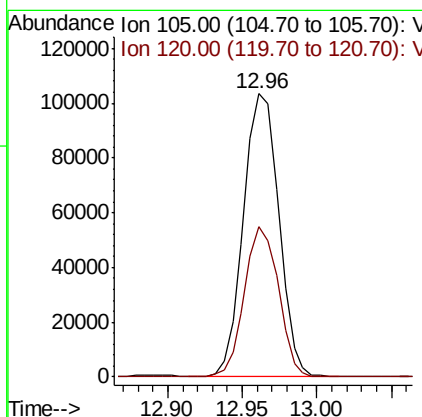
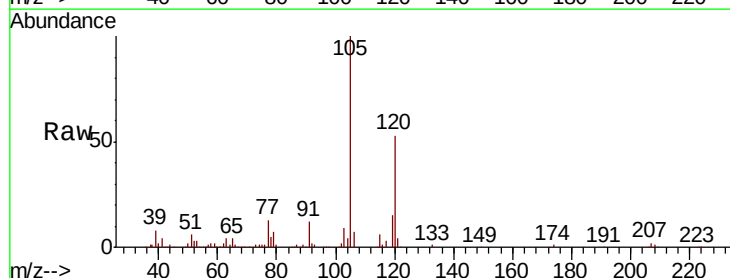
Manual Integrations
 APPROVED

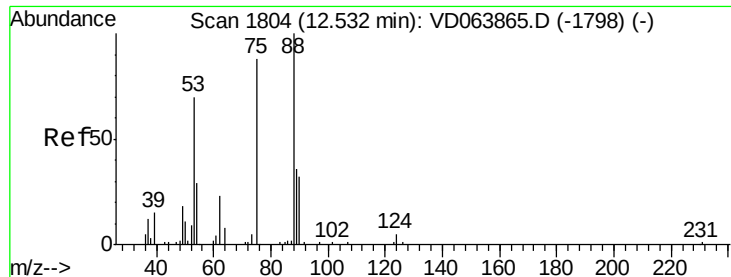
MMDadoda
 10/24/2019 4:53:20 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 21.942 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.2	25.9	77.8





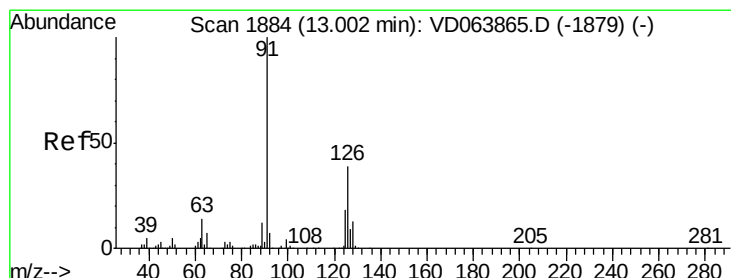
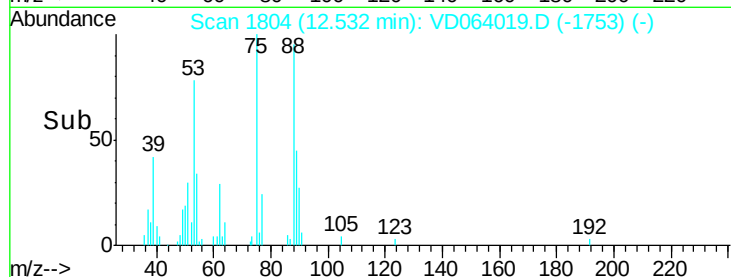
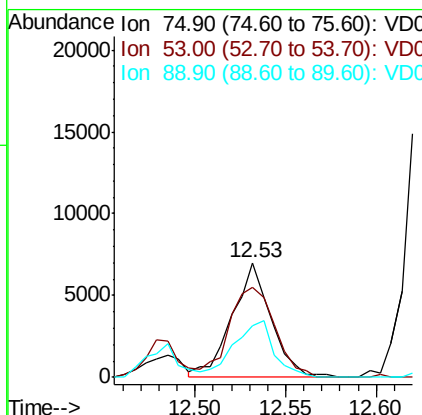
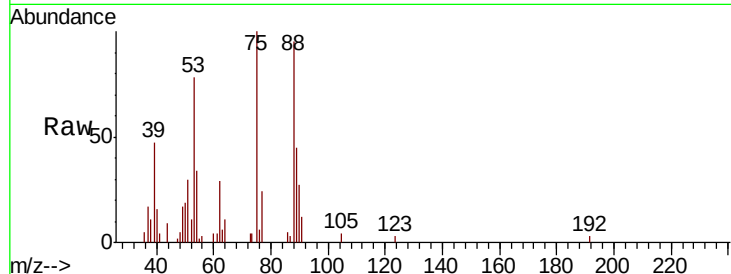
#81
trans-1,4-Dichloro-2-butene
Concen: 20.090 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.3	75.0	112.6
89	51.0	38.2	57.4

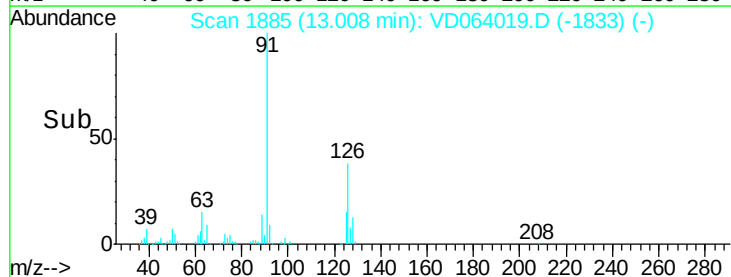
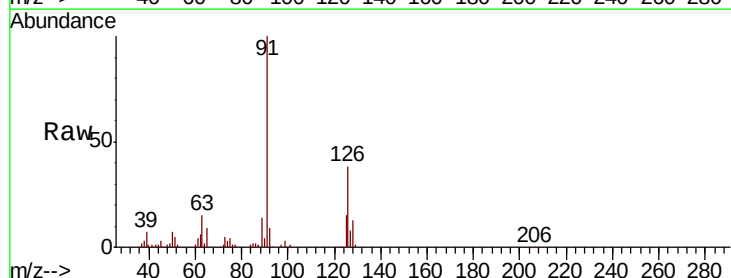
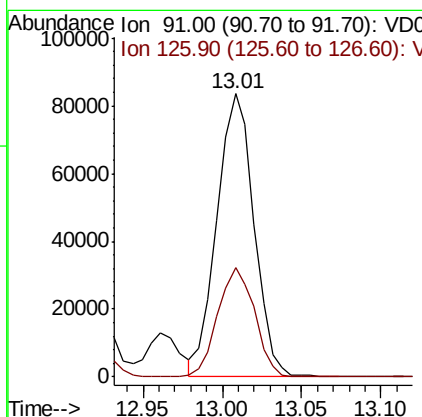
Manual Integrations
APPROVED

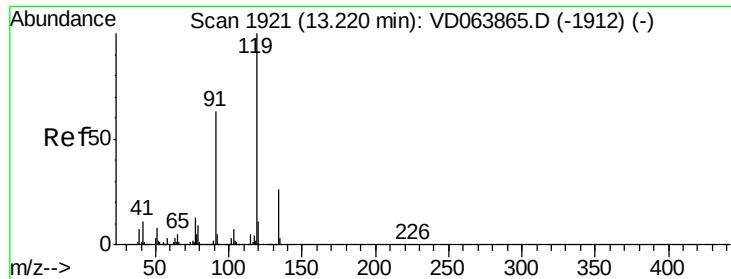
MMDadoda
10/24/2019 4:53:20 PM



#82
4-Chlorotoluene
Concen: 21.317 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.2	18.6	55.8





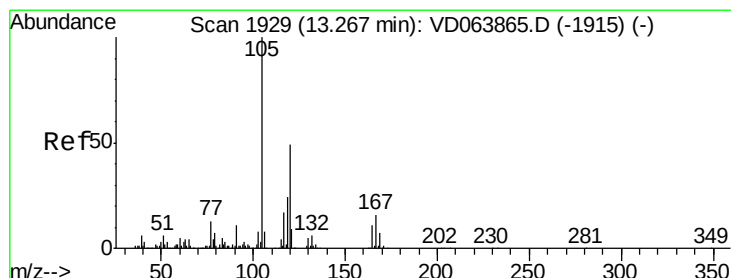
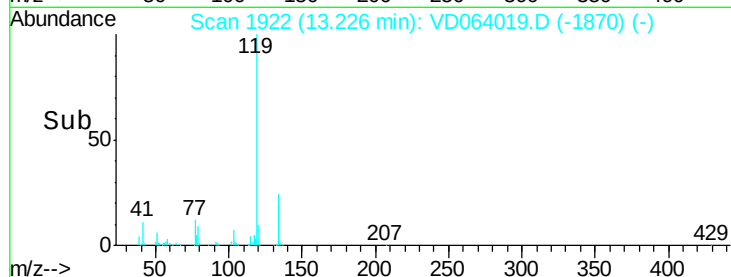
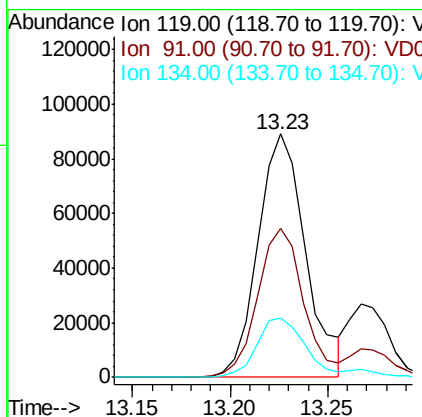
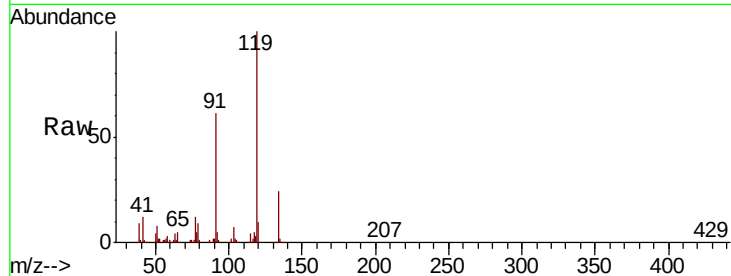
#83
tert-Butylbenzene
Concen: 21.927 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	150630		
91	58.9	30.0	90.0	
134	24.4	13.0	38.9	

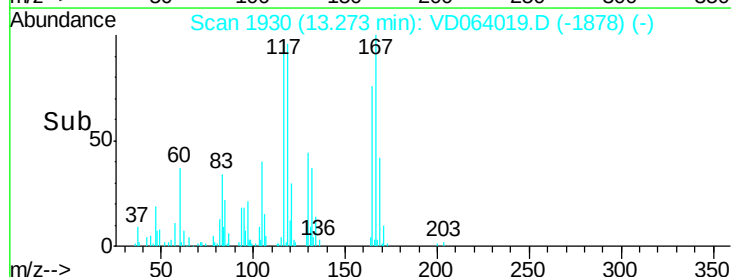
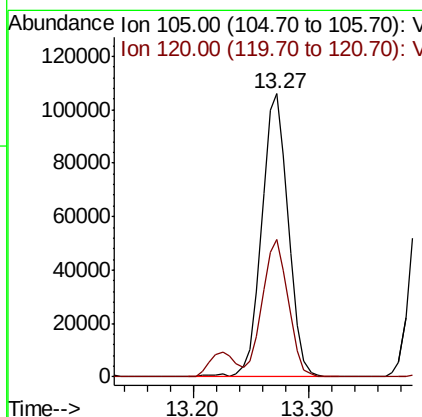
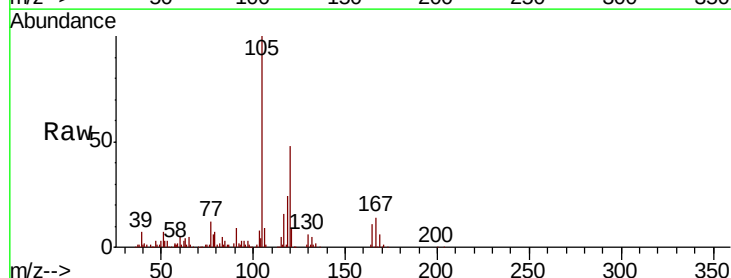
Manual Integrations
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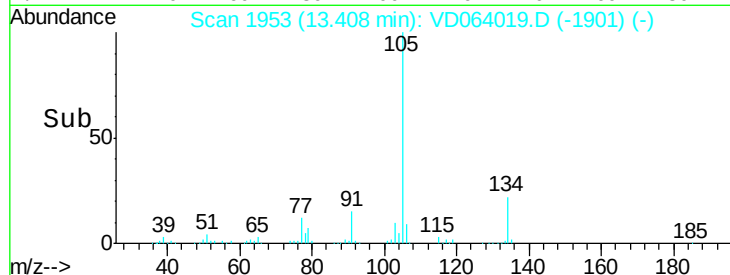
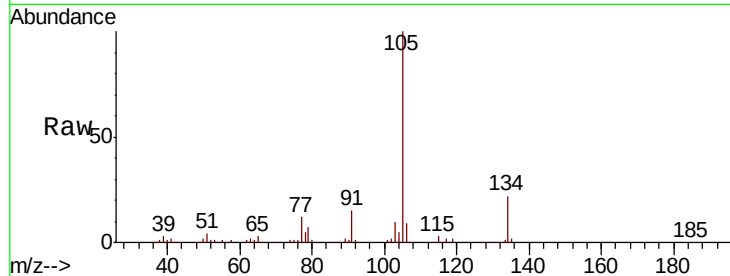
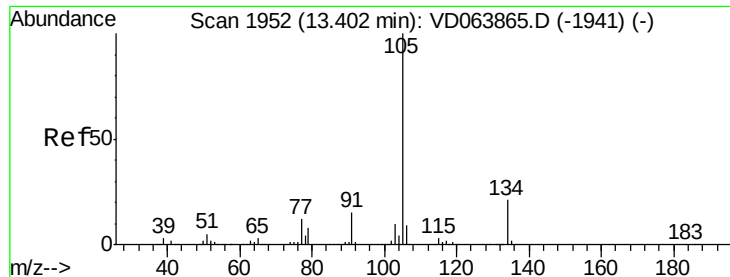
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#84
1,2,4-Trimethylbenzene
Concen: 21.327 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	169713		
120	47.5	23.8	71.5	





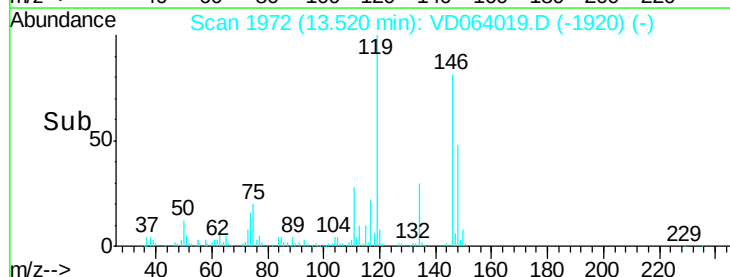
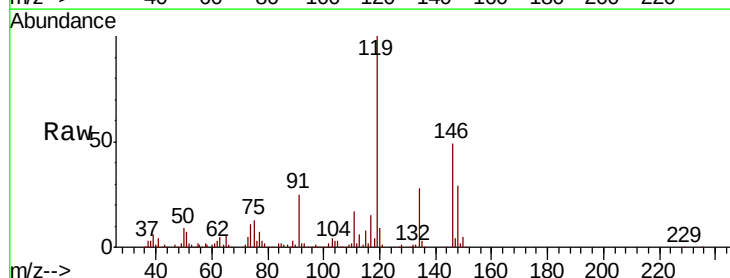
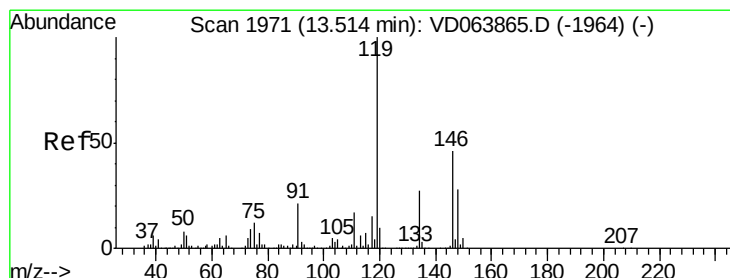
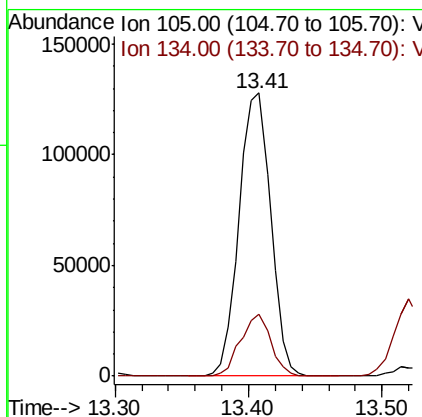
#85
 sec-Butylbenzene
 Concen: 22.661 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tot Ion	Ratio	Resp	Lower	Upper
105	100	210231		
134	20.7	10.6	31.8	

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1023SBS01

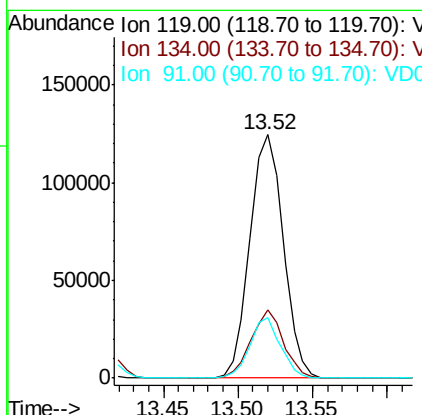
Manual Integrations
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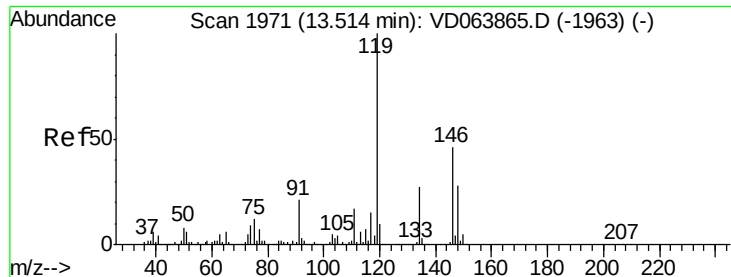
MMDadoda
 10/24/2019 4:53:20 PM



#86
 p-Isopropyltoluene
 Concen: 21.935 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	192560		
134	27.1	13.9	41.6	
91	23.0	11.2	33.5	





#87

1,3-Dichlorobenzene

Concen: 21.614 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Instrument :

MSVOA_D

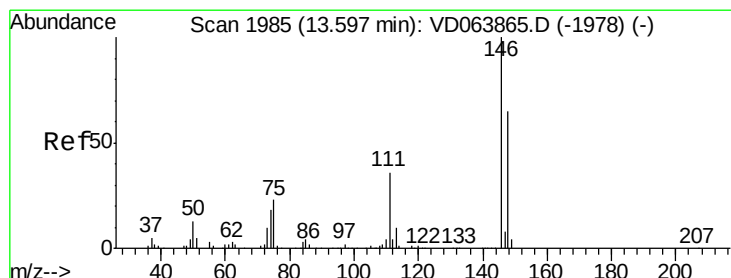
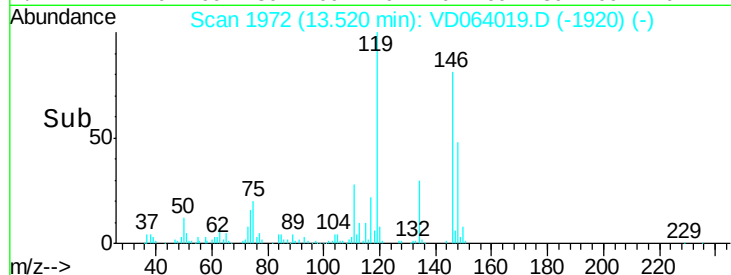
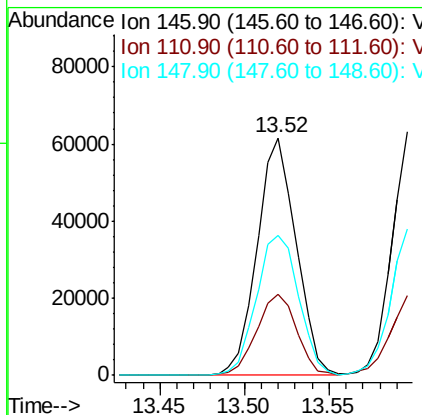
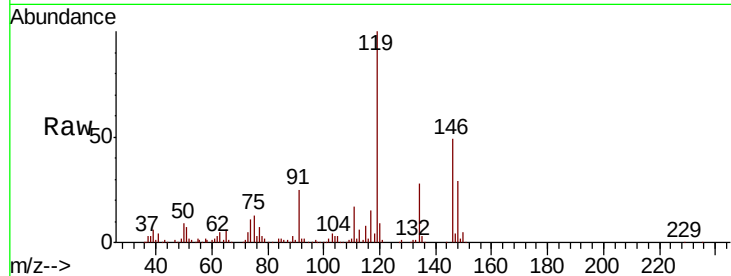
ClientSampleId :

VD1023SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.1	18.3	54.9
148	63.7	31.8	95.4

Manual Integrations
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10/24/2019 4:53:20 PM



#88

1,4-Dichlorobenzene

Concen: 22.256 ug/l

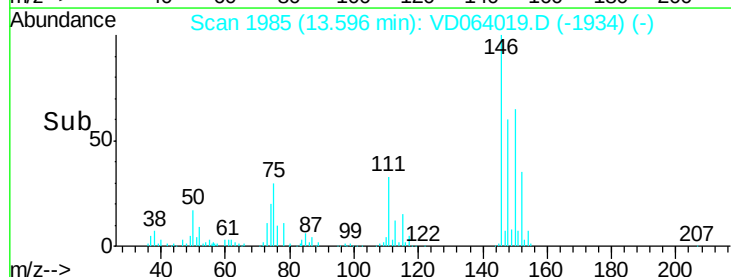
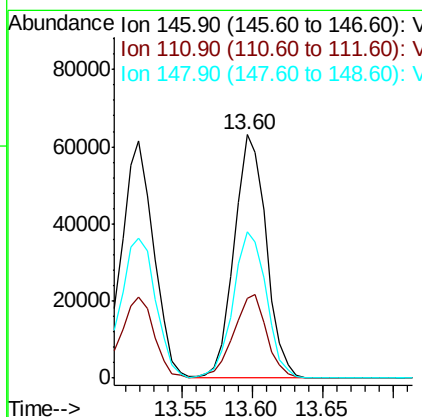
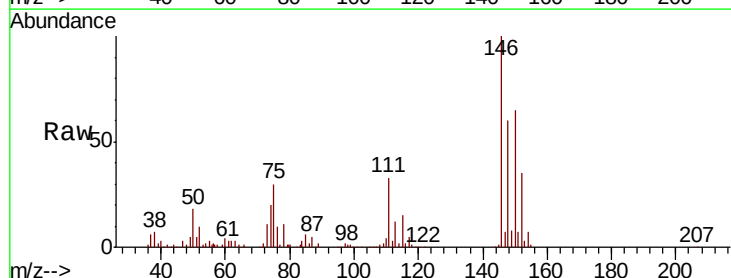
RT: 13.60 min Scan# 1985

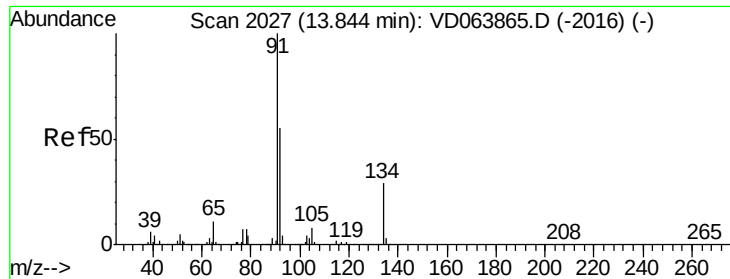
Delta R.T. -0.00 min

Lab File: VD064019.D

Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.6	56.0
148	62.2	32.6	98.0





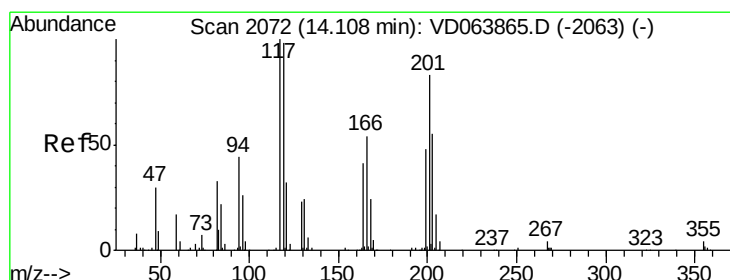
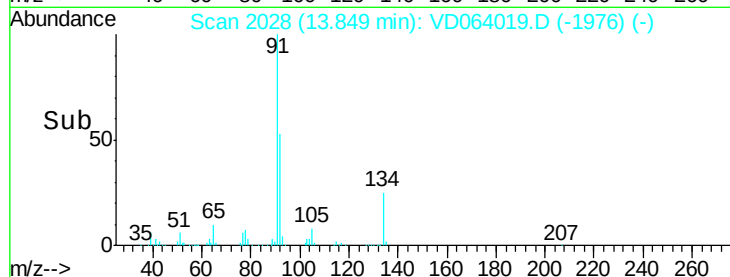
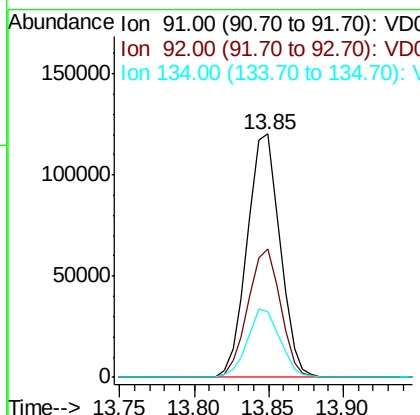
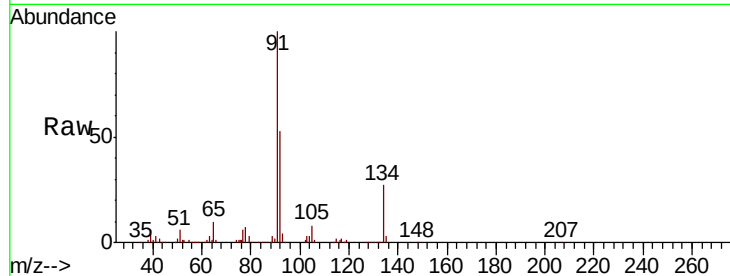
#89
n-Butylbenzene
Concen: 22.385 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.8	80.3
134	27.9	14.4	43.0

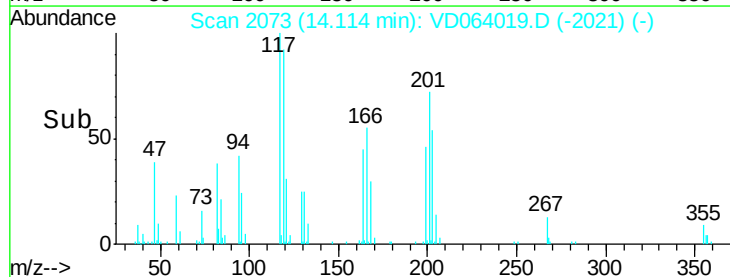
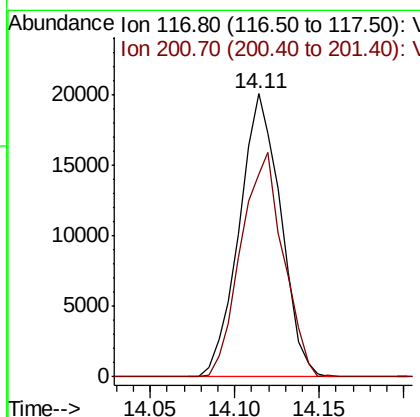
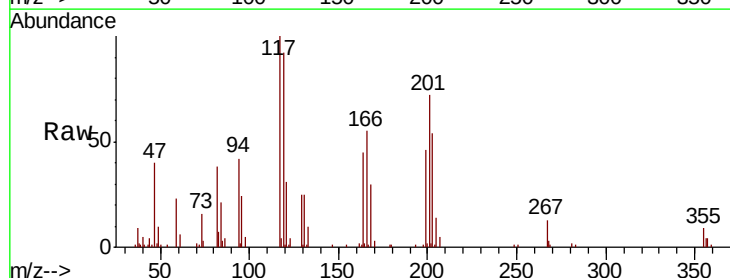
Manual Integrations
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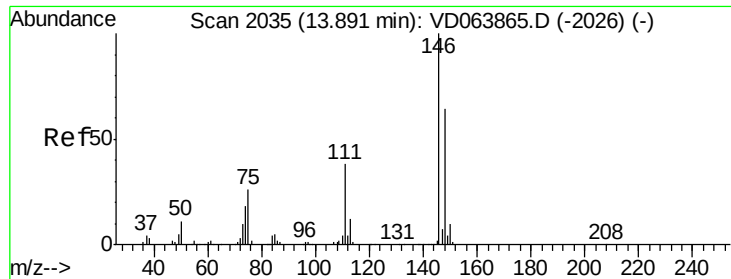
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#90
Hexachloroethane
Concen: 21.645 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.3	40.6	121.7





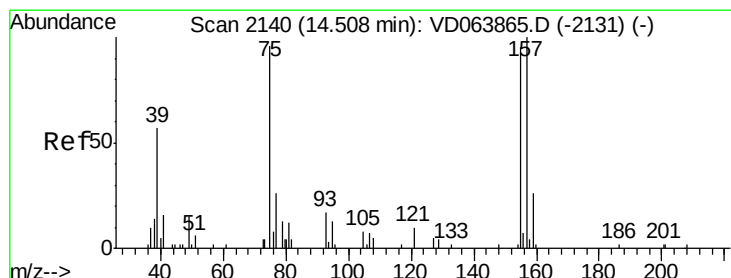
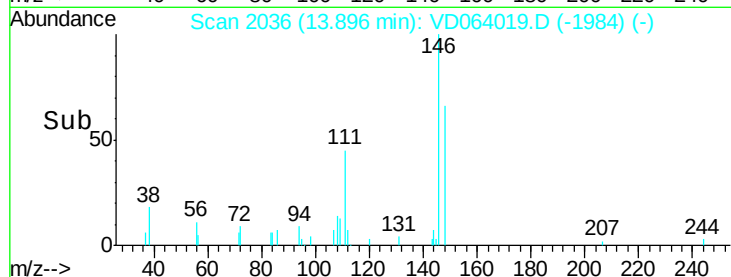
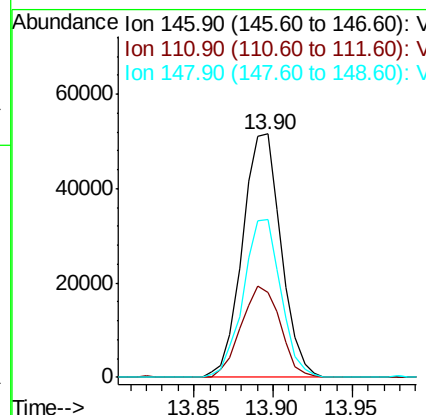
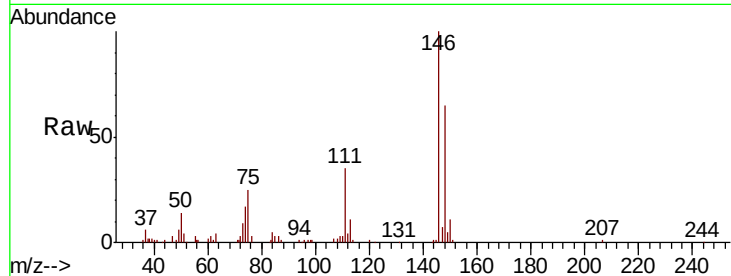
#91
 1,2-Dichlorobenzene
 Concen: 22.245 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.6	55.6
148	63.1	31.6	95.0

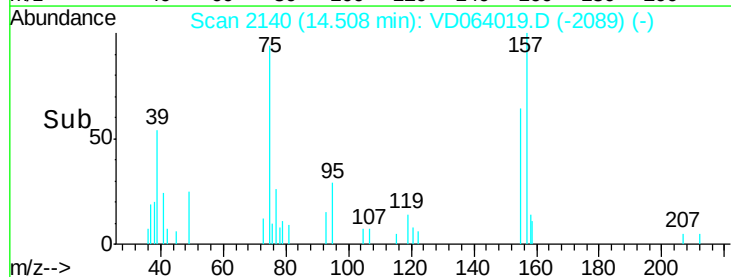
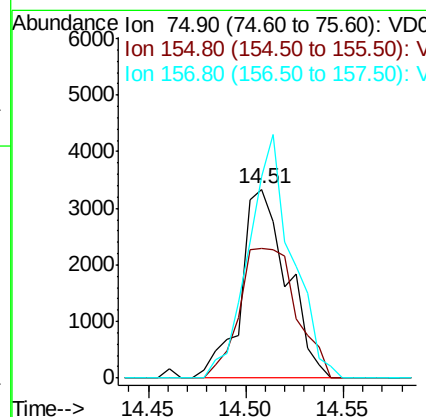
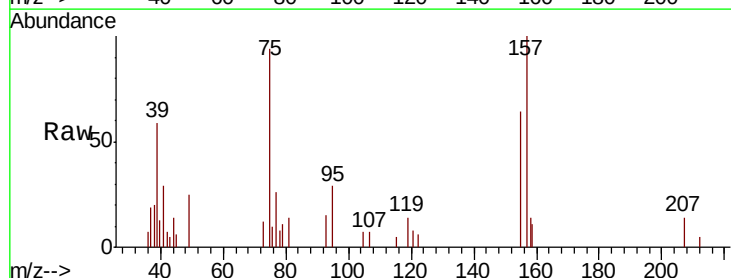
Manual Integrations
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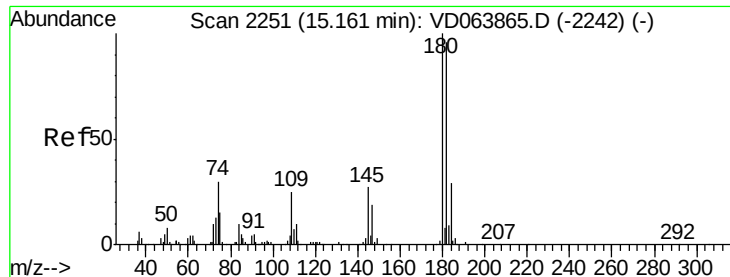
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.535 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.1	43.9	131.6
157	120.9	56.0	167.9





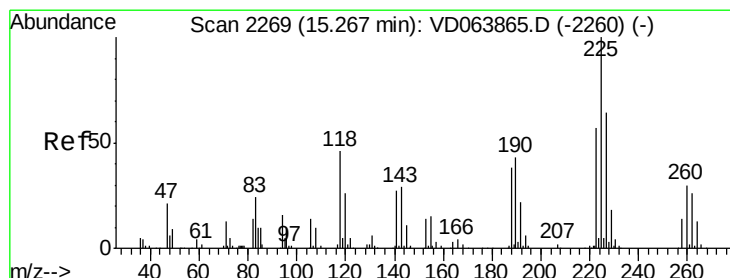
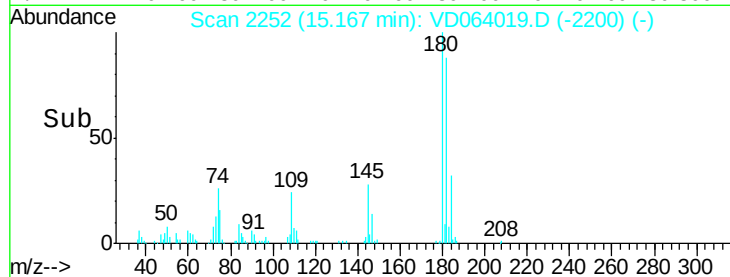
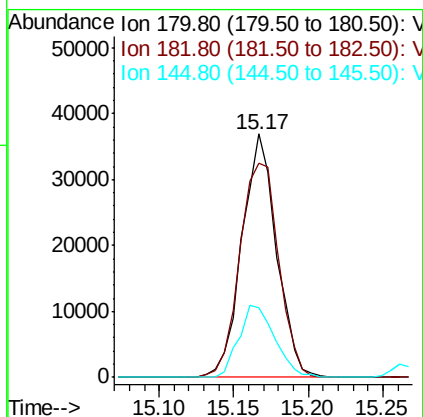
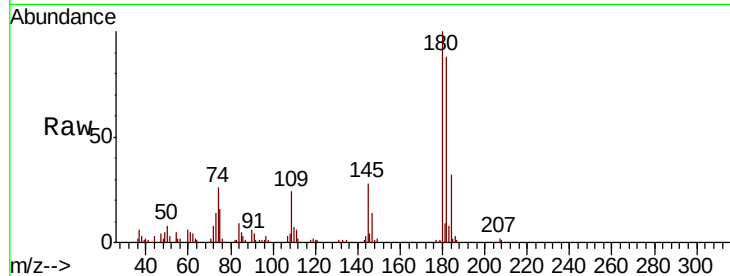
#93
 1,2,4-Trichlorobenzene
 Concen: 19.522 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1023SBS01

Tot Ion:	180	Resp:	59125
Ion Ratio	Lower	Upper	
180	100		
182	99.1	47.4	142.3
145	30.8	13.9	41.7

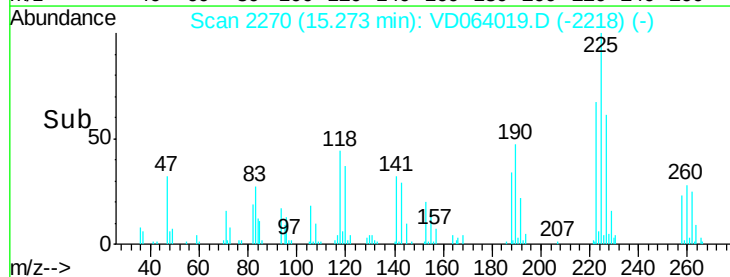
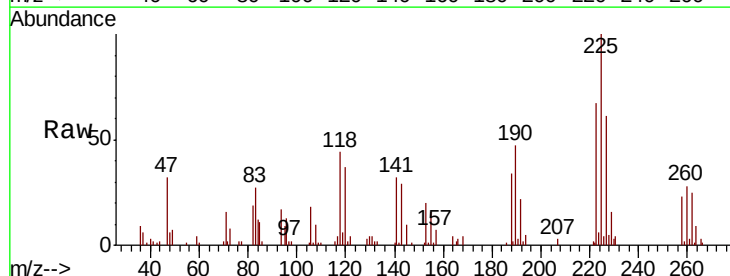
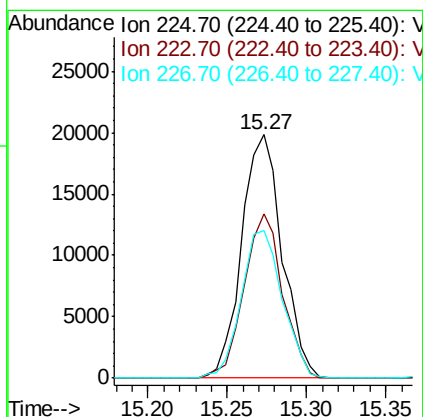
Manual Integrations
 APPROVED

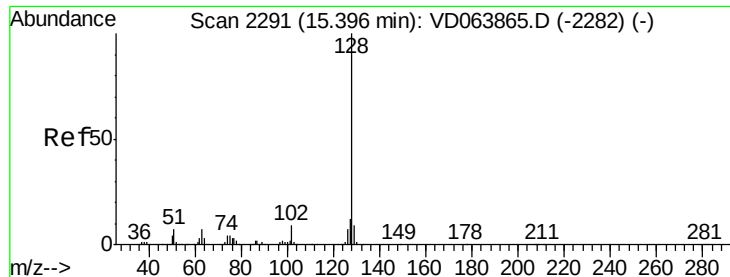
MMDadoda
 10/24/2019 4:53:20 PM



#94
 Hexachlorobutadiene
 Concen: 21.025 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.01 min
 Lab File: VD064019.D
 Acq: 23 Oct 2019 14:26

Tgt Ion:	225	Resp:	35138
Ion Ratio	Lower	Upper	
225	100		
223	64.5	29.5	88.6
227	62.0	30.8	92.4





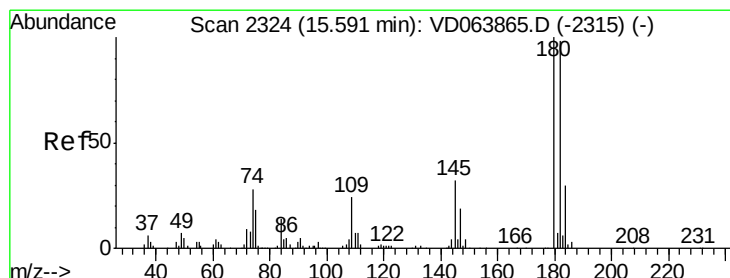
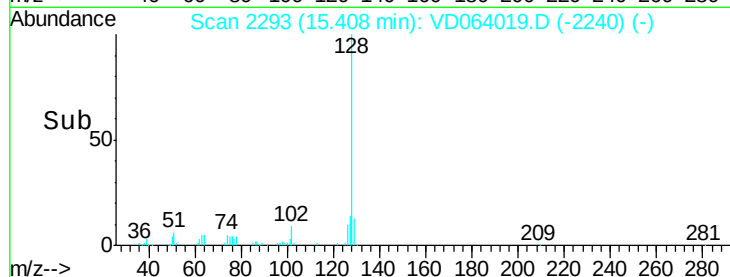
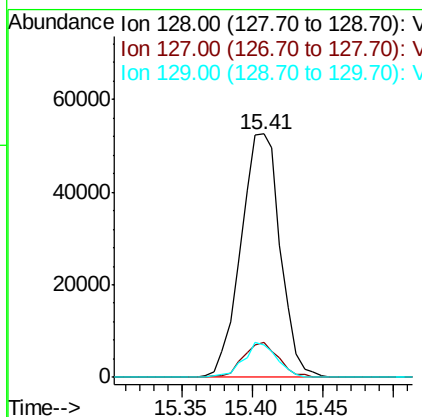
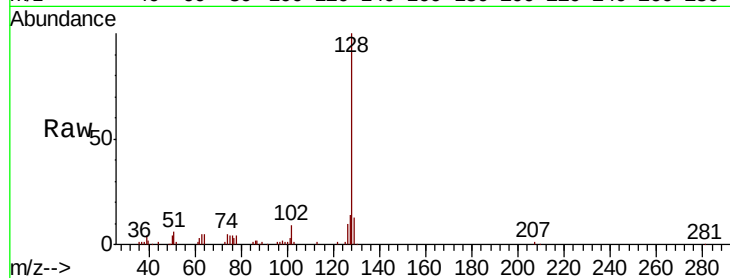
#95
Naphthalene
Concen: 20.160 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :
VD1023SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	12.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/24/2019 4:53:20 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.080 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. 0.01 min
Lab File: VD064019.D
Acq: 23 Oct 2019 14:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.0	141.0
145	27.3	15.3	45.9

