

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121818\
 Data File : VD060618.D
 Acq On : 18 Dec 2018 13:49
 Operator : VA/AP
 Sample : VD1218SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 2:12:04 PM

Quant Time: Dec 19 02:58:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1484810	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2042011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1644726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	872078	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	530824	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
35) Dibromofluoromethane	6.32	113	773187	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
50) Toluene-d8	9.45	98	2154041	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
62) 4-Bromofluorobenzene	12.43	95	787994	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.60	85	386704	23.942	ug/l	97
3) Chloromethane	1.77	50	355200	23.283	ug/l	99
4) Vinyl Chloride	1.87	62	274656	22.558	ug/l	97
5) Bromomethane	2.15	94	42385	13.915	ug/l	97
6) Chloroethane	2.27	64	70705	16.797	ug/l	95
7) Trichlorofluoromethane	2.52	101	301039	21.413	ug/l	100
8) Diethyl Ether	2.83	74	54327	22.373	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.10	101	209579	22.976	ug/l	98
10) Methyl Iodide	3.25	142	224544	21.059	ug/l	97
11) Tert butyl alcohol	3.97	59	37341	87.333	ug/l #	92
12) 1,1-Dichloroethene	3.09	96	168647	22.724	ug/l	89
13) Acrolein	2.99	56	39629	84.823	ug/l	92
14) Allyl chloride	3.54	41	312101	22.165	ug/l	97
15) Acrylonitrile	4.09	53	262893	108.285	ug/l	96
16) Acetone	3.17	43	179295	106.283	ug/l	98
17) Carbon Disulfide	3.32	76	500831	20.775	ug/l	98
18) Methyl Acetate	3.57	43	90973	22.691	ug/l #	92
19) Methyl tert-butyl Ether	4.13	73	441279	21.441	ug/l	97
20) Methylene Chloride	3.73	84	361848	20.744	ug/l	96
21) trans-1,2-Dichloroethene	4.11	96	339684	21.041	ug/l	98
22) Diisopropyl ether	4.86	45	1088724	21.535	ug/l	99
23) Vinyl Acetate	4.81	43	2698543	107.734	ug/l	100
24) 1,1-Dichloroethane	4.76	63	560507	21.341	ug/l	100
25) 2-Butanone	5.63	43	362548	109.236	ug/l	96
26) 2,2-Dichloropropane	5.59	77	445998	21.982	ug/l	98
27) cis-1,2-Dichloroethene	5.60	96	354182	21.578	ug/l	98
28) Bromochloromethane	5.93	49	231245	19.876	ug/l	95
29) Tetrahydrofuran	5.96	42	206198	109.713	ug/l	98
30) Chloroform	6.11	83	578267	21.855	ug/l	100
31) Cyclohexane	6.37	56	526175	21.224	ug/l	98
32) 1,1,1-Trichloroethane	6.29	97	471134	21.659	ug/l	98
36) 1,1-Dichloropropene	6.52	75	445147	22.302	ug/l	97
37) Ethyl Acetate	5.69	43	196179	22.663	ug/l	97
38) Carbon Tetrachloride	6.50	117	401775	22.421	ug/l	98

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Manual Integrations
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MMDadoda
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Quant Time: Dec 19 02:58:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	504815	22.185	ug/l	97
40) Benzene	6.80	78	1151510	22.573	ug/l	100
41) Methacrylonitrile	5.94	41	116619m	24.991	ug/l	
42) 1,2-Dichloroethane	6.89	62	288881	22.273	ug/l	99
43) Isopropyl Acetate	8.35	43	226120	21.161	ug/l #	99
44) Trichloroethene	7.74	130	340537	22.337	ug/l	99
45) 1,2-Dichloropropane	8.11	63	272773	21.620	ug/l	98
46) Dibromomethane	8.21	93	159861	21.930	ug/l	97
47) Bromodichloromethane	8.49	83	385772	22.304	ug/l	99
48) Methyl methacrylate	8.24	41	139397	22.047	ug/l	96
49) 1,4-Dioxane	8.23	88	25001	436.282	ug/l #	92
51) 4-Methyl-2-Pentanone	9.35	43	722558	108.704	ug/l	100
52) Toluene	9.55	92	701577	22.004	ug/l	96
53) t-1,3-Dichloropropene	9.92	75	318654	22.421	ug/l	99
54) cis-1,3-Dichloropropene	9.10	75	416125	22.285	ug/l	99
55) 1,1,2-Trichloroethane	10.18	97	190104	21.410	ug/l	98
56) Ethyl methacrylate	10.02	69	178643	22.231	ug/l	99
57) 1,3-Dichloropropane	10.38	76	306840	22.355	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	520839	108.324	ug/l	100
59) 2-Hexanone	10.49	43	525667	113.141	ug/l	98
60) Dibromochloromethane	10.63	129	251523	22.657	ug/l	100
61) 1,2-Dibromoethane	10.75	107	197636	21.841	ug/l	100
64) Tetrachloroethene	10.25	164	310012	21.287	ug/l	97
65) Chlorobenzene	11.31	112	762290	21.908	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.42	131	258871	23.083	ug/l	97
67) Ethyl Benzene	11.42	91	1361850	22.946	ug/l	96
68) m/p-Xylenes	11.56	106	980033	44.634	ug/l	96
69) o-Xylene	11.93	106	456711	21.826	ug/l	90
70) Styrene	11.95	104	741761	22.085	ug/l	97
71) Bromoform	12.11	173	159925	21.374	ug/l	98
73) Isopropylbenzene	12.28	105	1301821	21.095	ug/l	98
74) N-amyl acetate	12.13	43	305719	20.498	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.56	83	211594	21.417	ug/l	97
76) 1,2,3-Trichloropropane	12.59	75	207542	21.004	ug/l	99
77) Bromobenzene	12.54	156	347501	21.423	ug/l	89
78) n-propylbenzene	12.63	91	1663362	21.323	ug/l	96
79) 2-Chlorotoluene	12.70	91	884601	20.898	ug/l	94
80) 1,3,5-Trimethylbenzene	12.79	105	1008865	21.395	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.34	75	55357	20.087	ug/l	92
82) 4-Chlorotoluene	12.81	91	1019777	21.449	ug/l	97
83) tert-Butylbenzene	13.05	119	1158782	21.917	ug/l	97
84) 1,2,4-Trimethylbenzene	13.09	105	997856	20.437	ug/l	97
85) sec-Butylbenzene	13.22	105	1381756	20.968	ug/l	95
86) p-Isopropyltoluene	13.34	119	1114600	21.337	ug/l	99
87) 1,3-Dichlorobenzene	13.31	146	627042	21.350	ug/l	98
88) 1,4-Dichlorobenzene	13.39	146	621912	21.585	ug/l	99
89) n-Butylbenzene	13.65	91	1180094	20.309	ug/l	99
90) Hexachloroethane	13.85	117	271595	20.736	ug/l	80
91) 1,2-Dichlorobenzene	13.66	146	523760	21.822	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.23	75	25283	21.121	ug/l	80

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ClientSampleId :
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Manual Integrations
APPROVED

MMDadoda
12/19/2018 2:12:04 PM

Quant Time: Dec 19 02:58:14 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	398670	21.248	ug/l	97
94) Hexachlorobutadiene	14.88	225	305713	22.084	ug/l	99
95) Naphthalene	14.96	128	475259	21.292	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	312668	20.914	ug/l	99

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

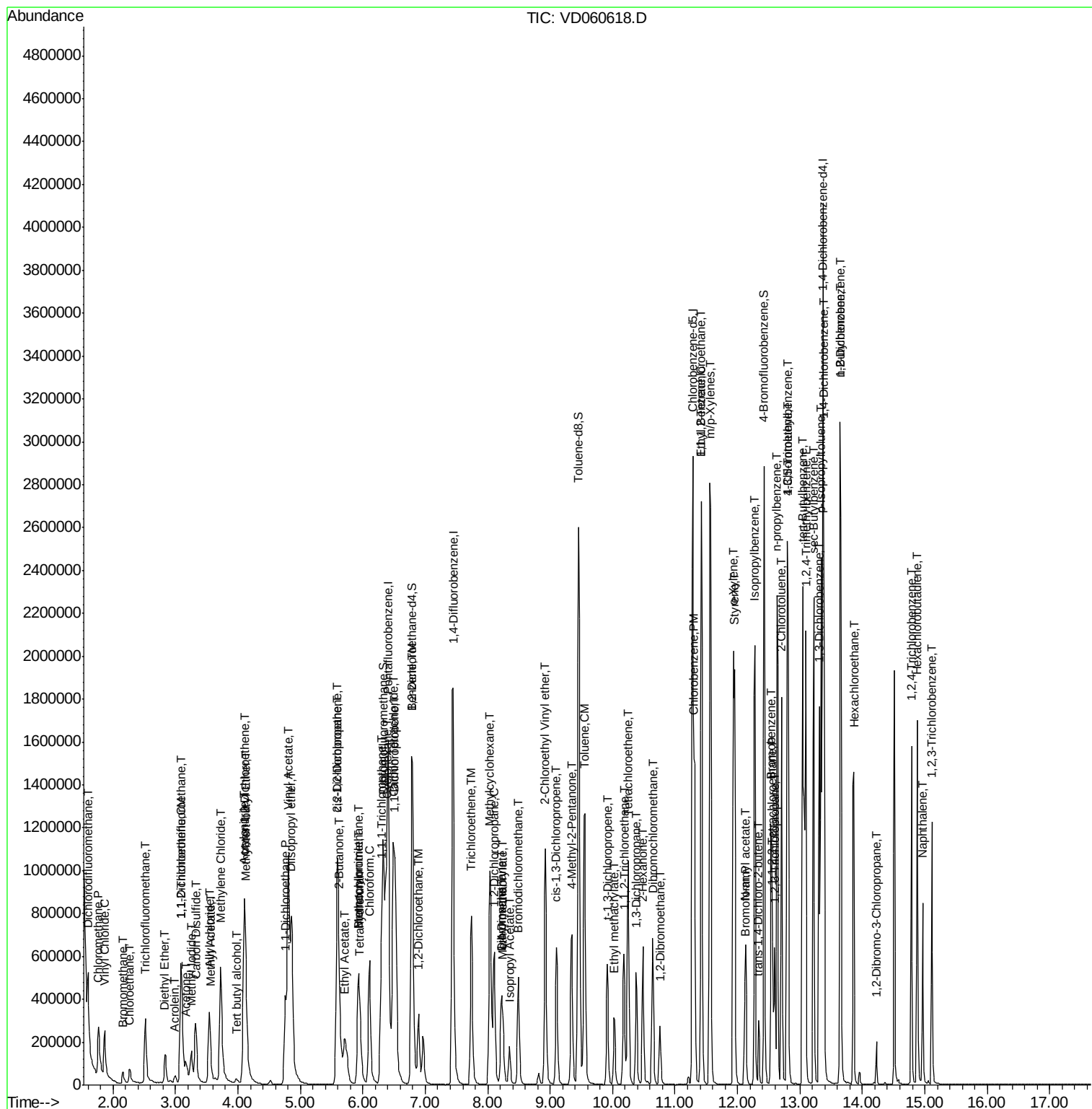
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Data File : VD060618.D
Acq On : 18 Dec 2018 13:49
Operator : VA/AP
Sample : VD1218SBS01
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 5 Sample Multiplier: 1

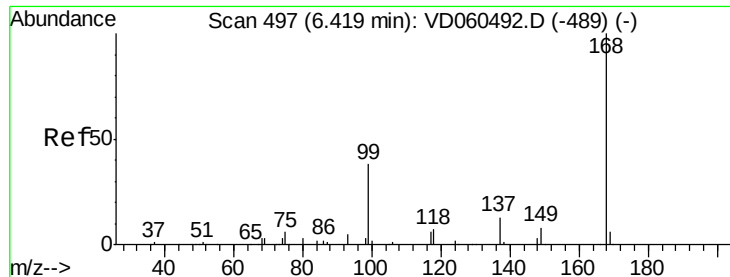
Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Manual Integrations
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MMDadoda
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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion:168 Resp: 1484810

Ion Ratio Lower Upper

168 100

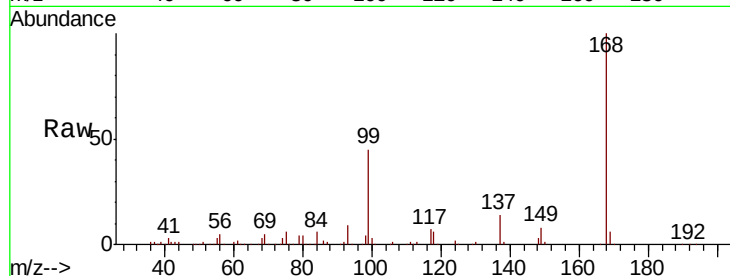
99 44.8 35.6 53.4

Manual Integrations

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12/19/2018 2:12:04 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

500000

400000

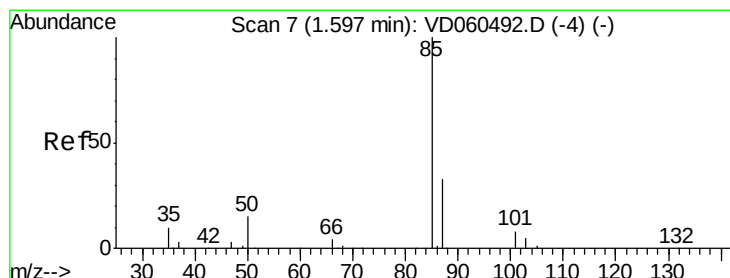
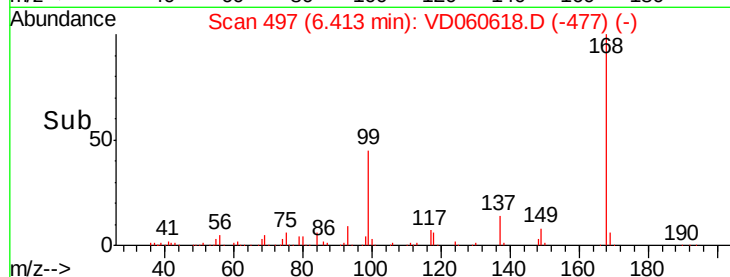
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.942 ug/l

RT: 1.60 min Scan# 8

Delta R.T. 0.00 min

Lab File: VD060618.D

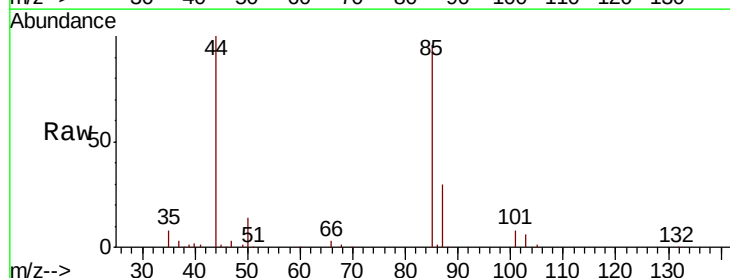
Acq: 18 Dec 2018 13:49

Tgt Ion: 85 Resp: 386704

Ion Ratio Lower Upper

85 100

87 31.5 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

200000

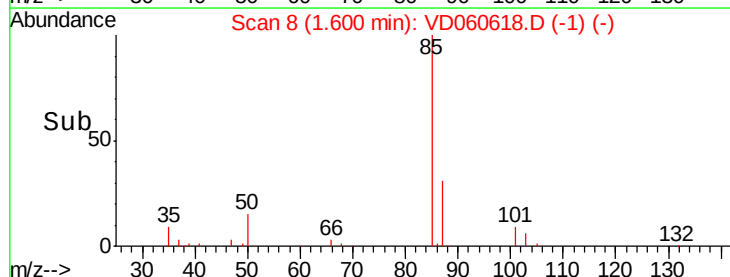
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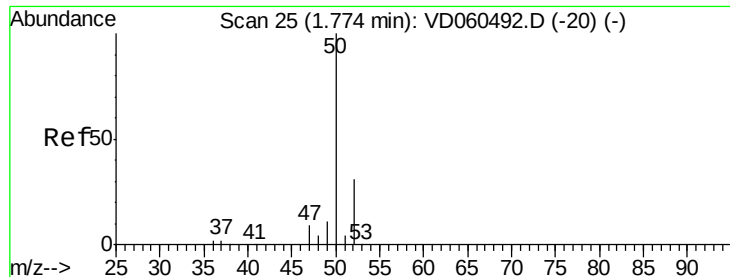
100000

50000

0

Time-->





#3

Chloromethane

Concen: 23.283 ug/l

RT: 1.77 min Scan# 25

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 50 Resp: 355200

Ion Ratio Lower Upper

50 100

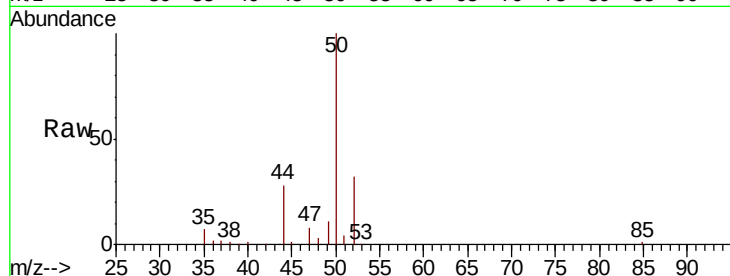
52 31.5 25.0 37.4

Manual Integrations

APPROVED

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12/19/2018 2:12:04 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.77

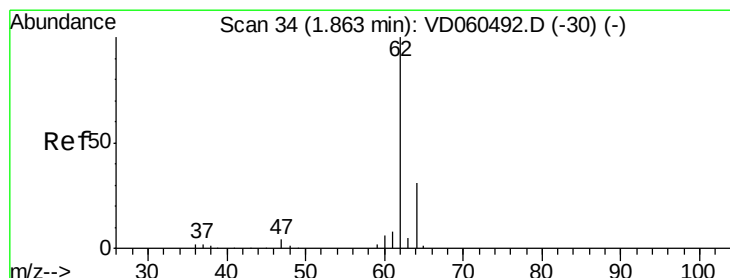
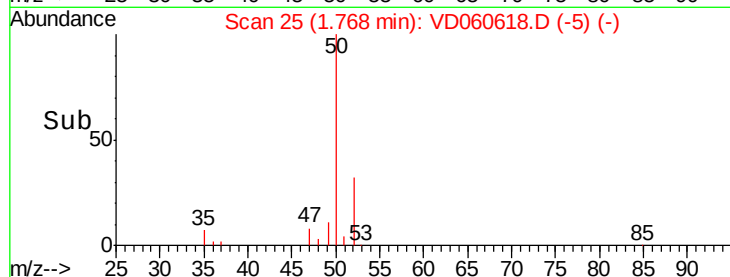
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 22.558 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.00 min

Lab File: VD060618.D

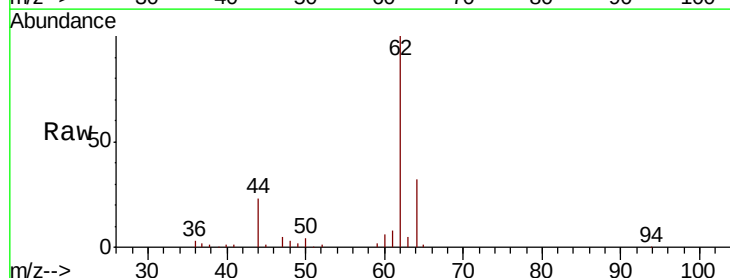
Acq: 18 Dec 2018 13:49

Tgt Ion: 62 Resp: 274656

Ion Ratio Lower Upper

62 100

64 32.5 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.87

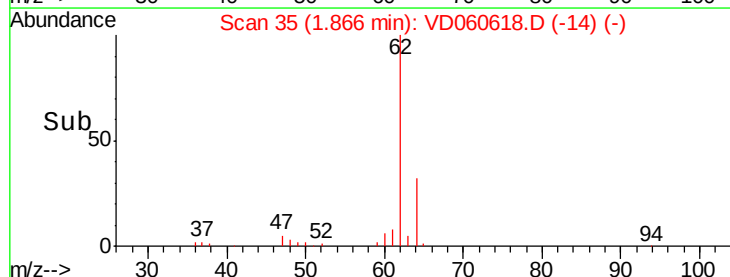
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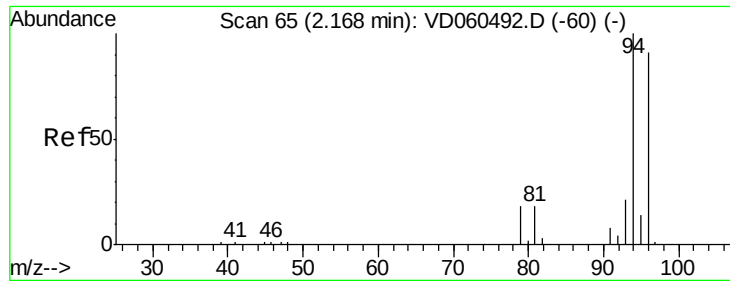
100000

50000

0

Time-->





#5

Bromomethane

Concen: 13.915 ug/l

RT: 2.15 min Scan# 64

Delta R.T. -0.02 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 94 Resp: 42385

Ion Ratio Lower Upper

94 100

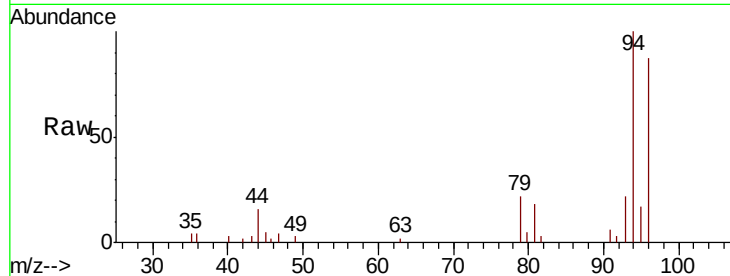
96 87.4 72.6 108.8

Manual Integrations

APPROVED

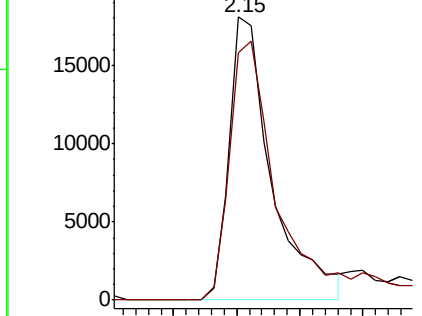
MMDadoda

12/19/2018 2:12:04 PM

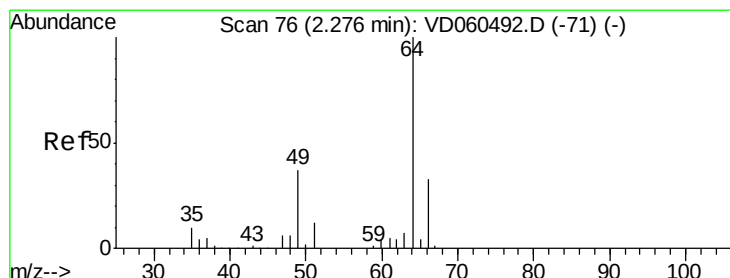
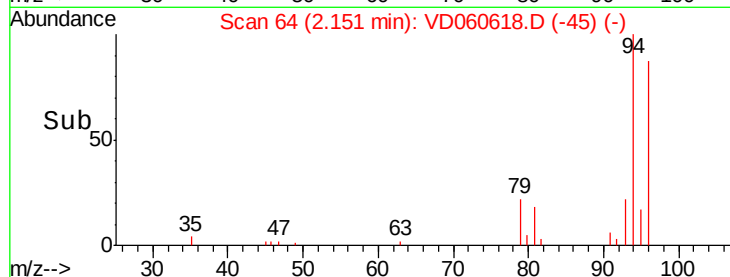


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#6

Chloroethane

Concen: 16.797 ug/l

RT: 2.27 min Scan# 76

Delta R.T. -0.01 min

Lab File: VD060618.D

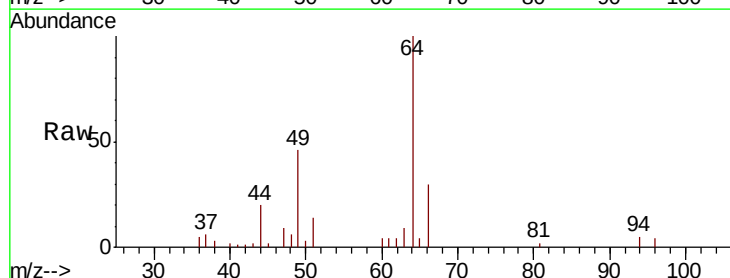
Acq: 18 Dec 2018 13:49

Tgt Ion: 64 Resp: 70705

Ion Ratio Lower Upper

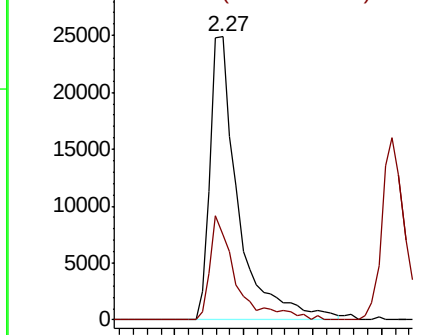
64 100

66 30.2 26.4 39.6

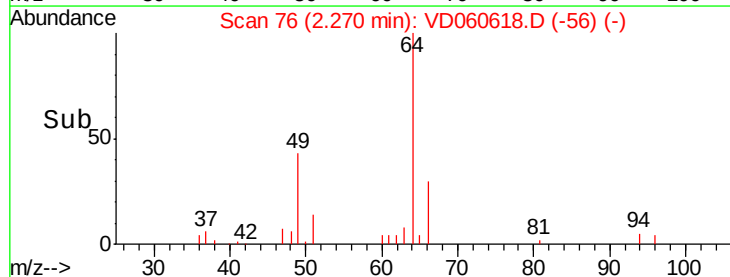


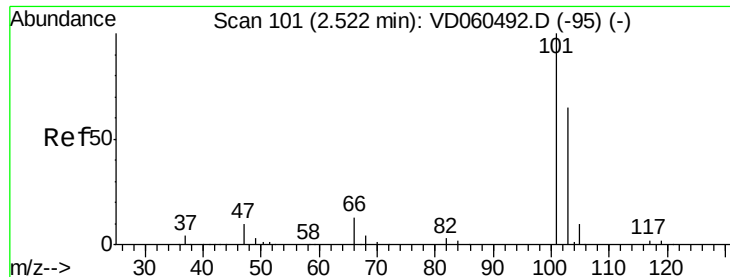
Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



Time-->





#7

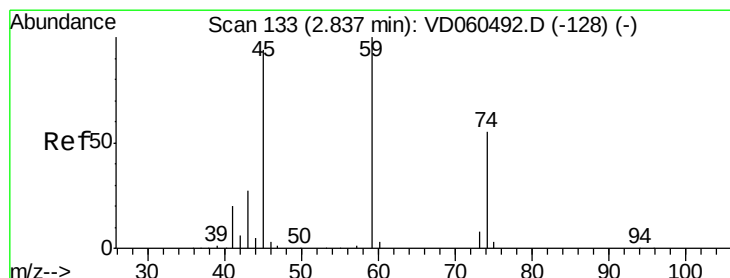
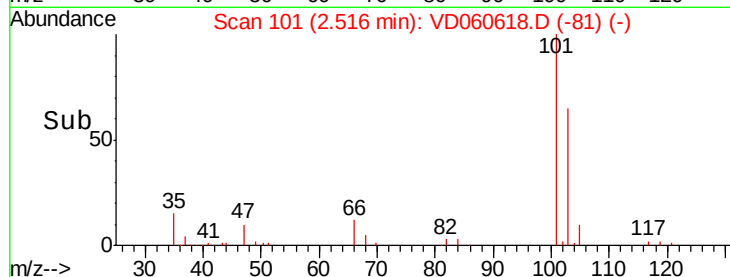
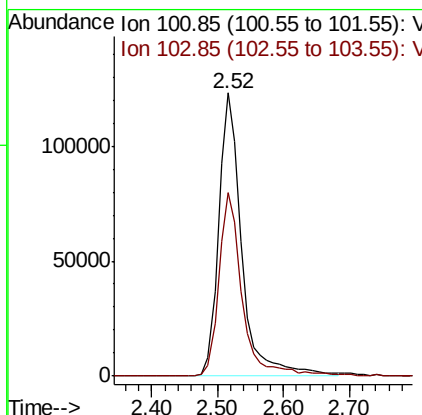
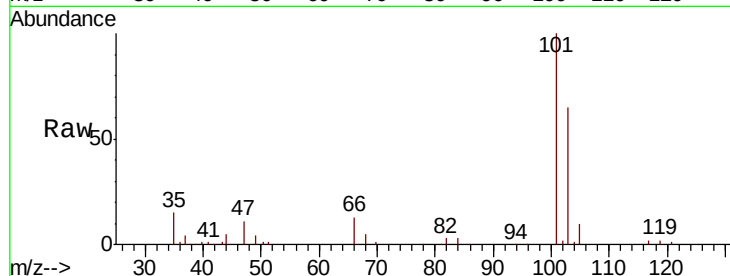
Trichlorofluoromethane
Concen: 21.413 ug/l
RT: 2.52 min Scan# 101
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion:101 Resp: 301039
Ion Ratio Lower Upper
101 100
103 64.9 51.8 77.8

Manual Integrations
APPROVED

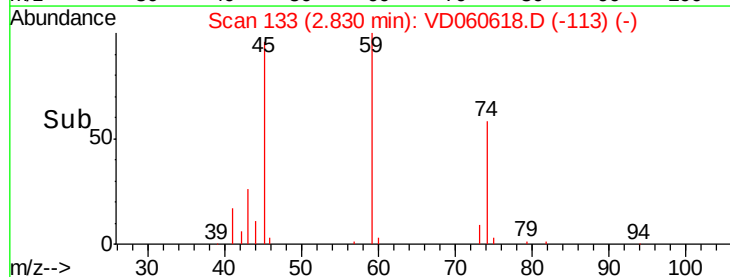
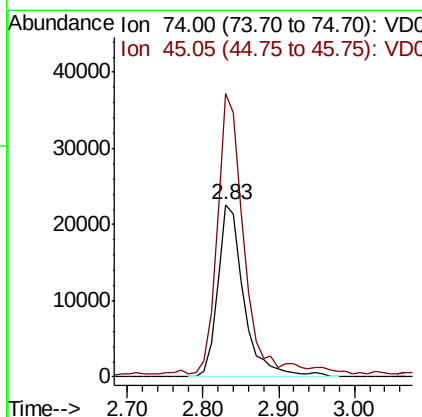
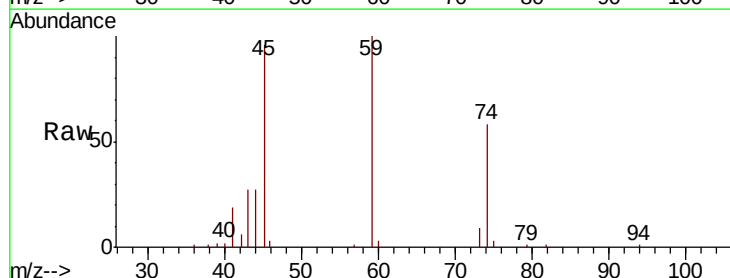
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12/19/2018 2:12:04 PM

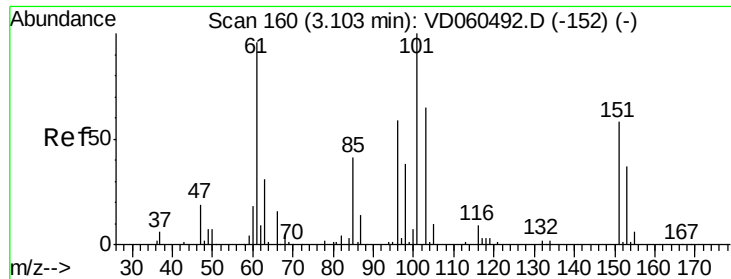


#8

Diethyl Ether
Concen: 22.373 ug/l
RT: 2.83 min Scan# 133
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion: 74 Resp: 54327
Ion Ratio Lower Upper
74 100
45 164.0 86.0 258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.976 ug/l

RT: 3.10 min Scan# 160

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

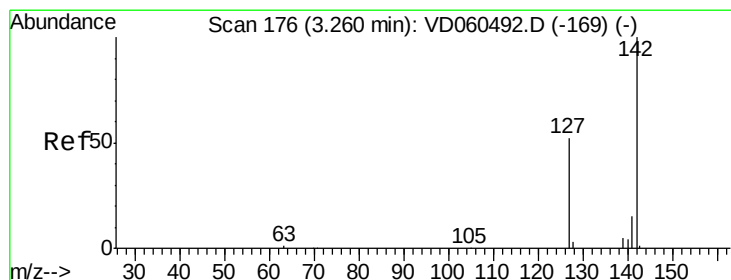
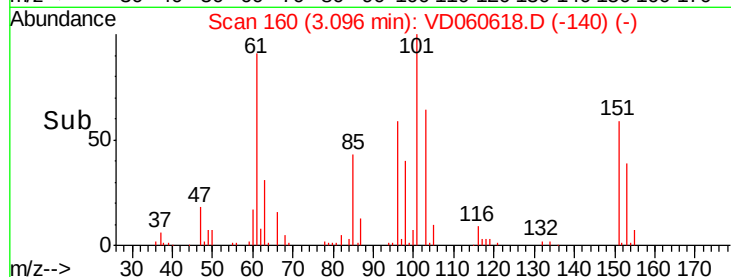
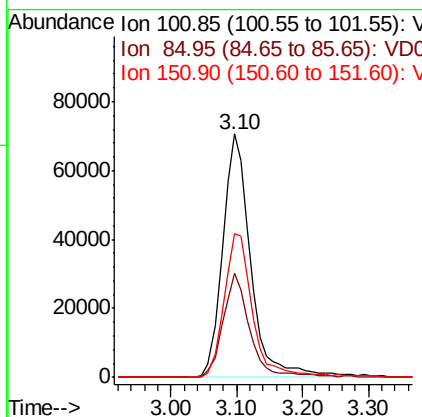
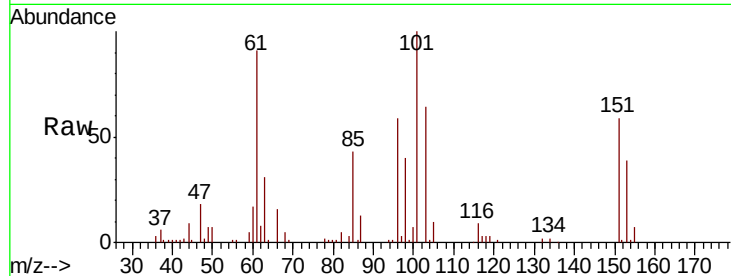
ClientSampleId :

VD1218SBS01

Tot Ion:	101	Resp:	209579
Ion Ratio	Lower	Upper	
101	100		
85	42.6	32.7	49.1
151	58.8	46.6	69.8

Manual Integrations
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#10

Methyl Iodide

Concen: 21.059 ug/l

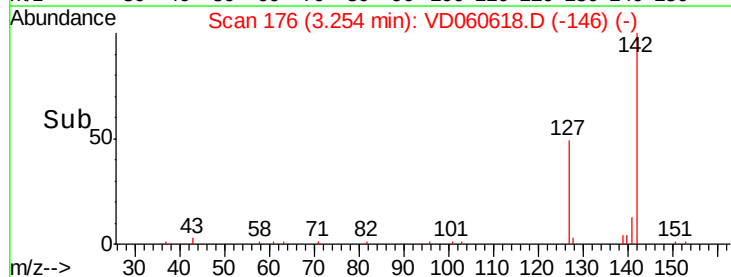
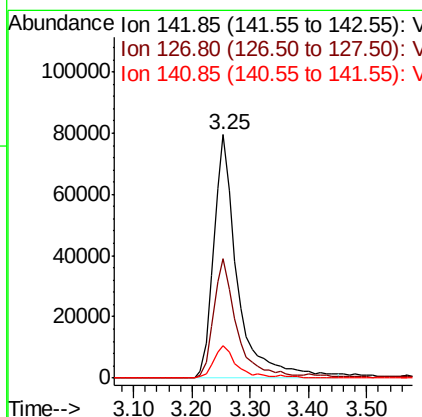
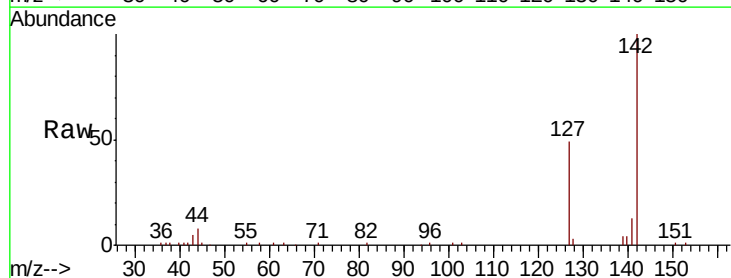
RT: 3.25 min Scan# 176

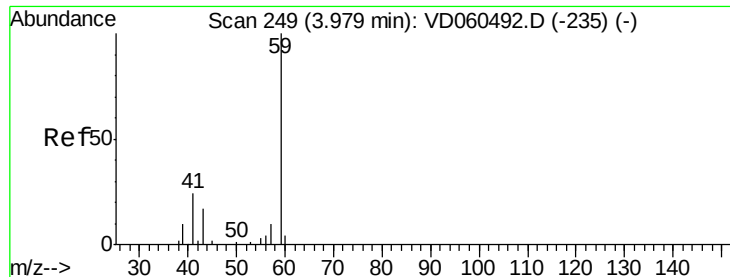
Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Tgt Ion:	142	Resp:	224544
Ion Ratio	Lower	Upper	
142	100		
127	49.2	41.2	61.8
141	13.2	11.9	17.9





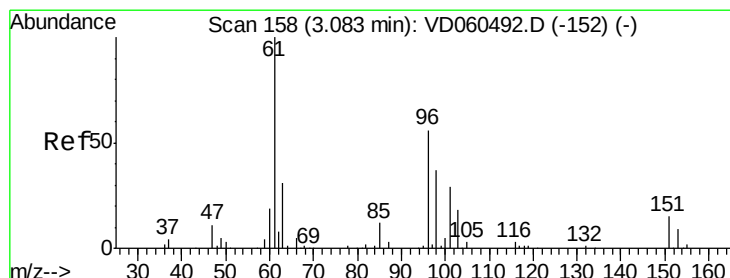
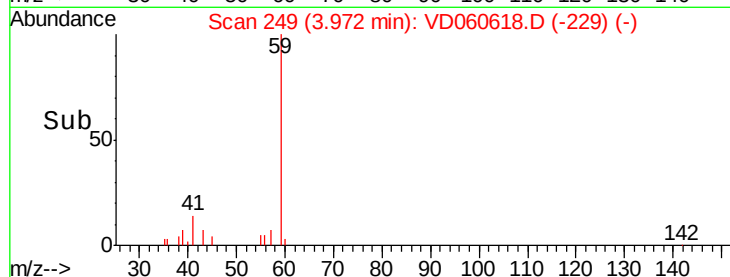
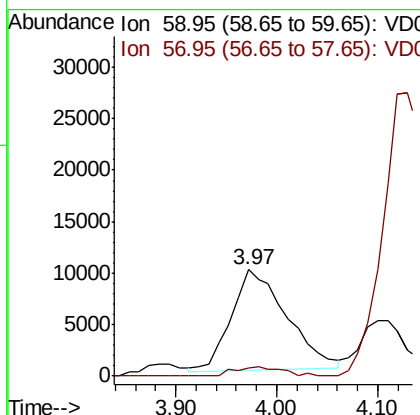
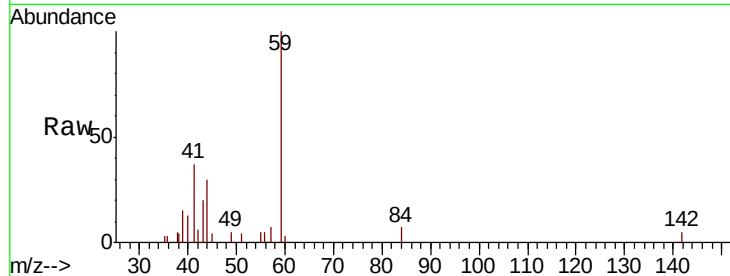
#11
Tert butyl alcohol
Concen: 87.333 ug/l
RT: 3.97 min Scan# 249
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion: 59 Resp: 37341
Ion Ratio Lower Upper
59 100
57 7.1 8.1 12.1#

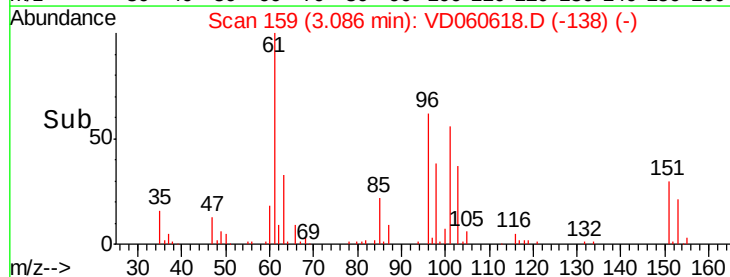
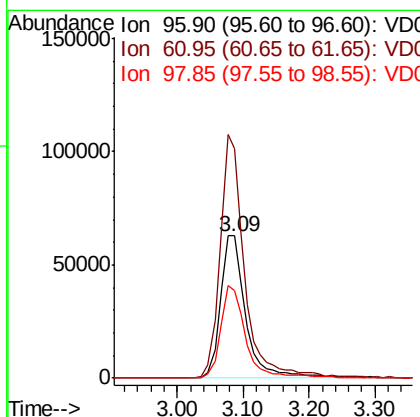
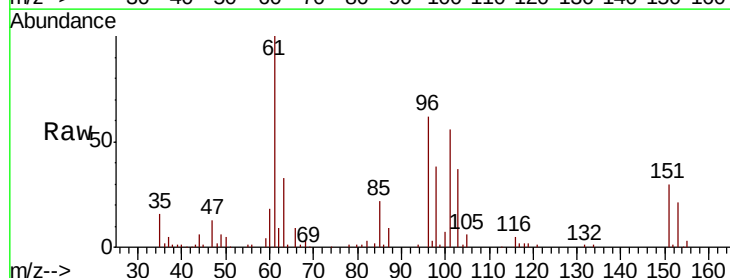
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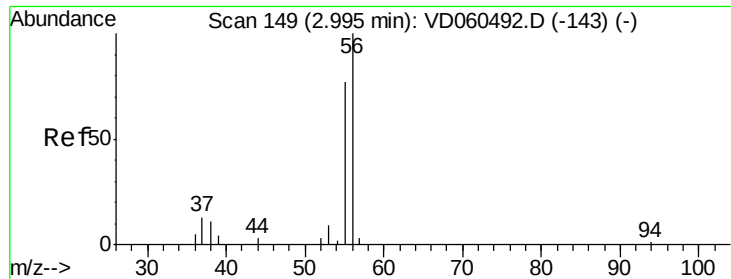
MMDadoda
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#12
1,1-Dichloroethene
Concen: 22.724 ug/l
RT: 3.09 min Scan# 159
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion: 96 Resp: 168647
Ion Ratio Lower Upper
96 100
61 161.2 143.0 214.4
98 61.7 53.4 80.0





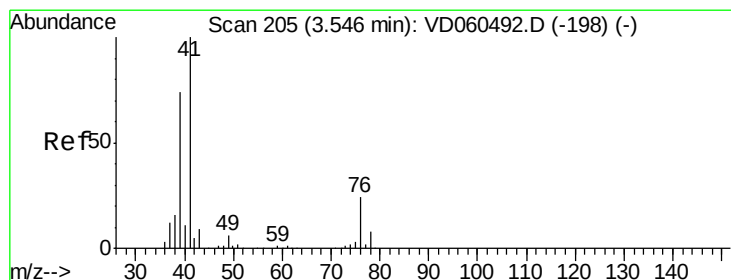
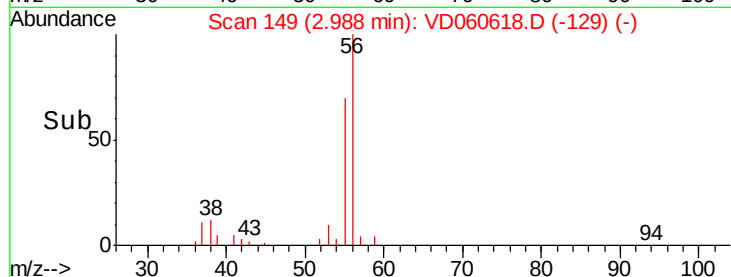
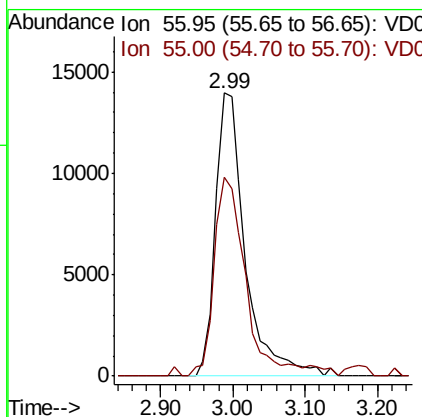
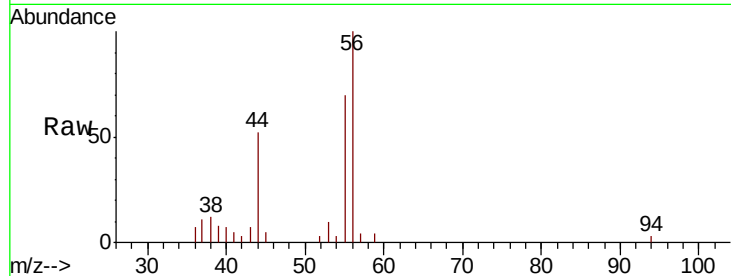
#13
Acrolein
Concen: 84.823 ug/l
RT: 2.99 min Scan# 149
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	56	Resp	39629
Ion Ratio	Lower	Upper	
56	100		
55	70.2	62.0	93.0

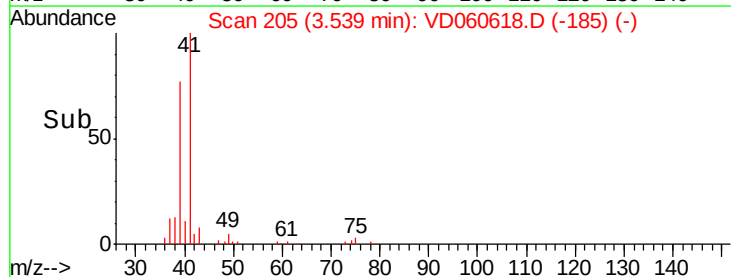
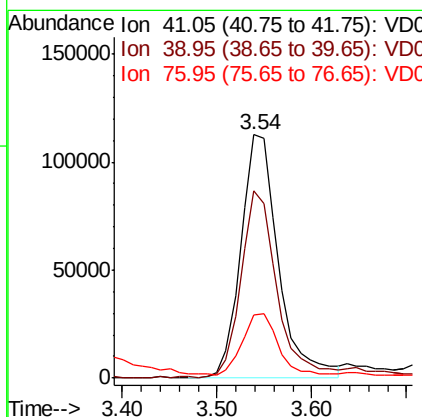
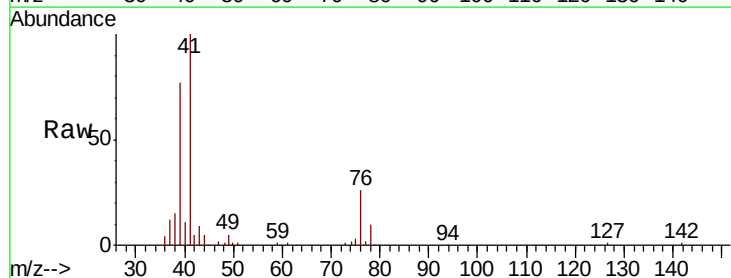
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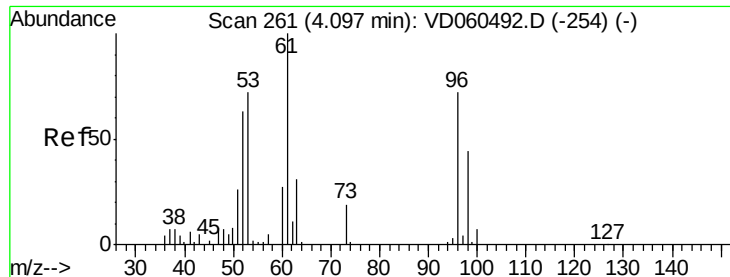
MMDadoda
12/19/2018 2:12:04 PM



#14
Allyl chloride
Concen: 22.165 ug/l
RT: 3.54 min Scan# 205
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	41	Resp	312101
Ion Ratio	Lower	Upper	
41	100		
39	76.9	59.3	88.9
76	25.8	21.0	31.6





#15

Acrylonitrile

Concen: 108.285 ug/l

RT: 4.09 min Scan# 261

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 53 Resp: 262893

Ion Ratio Lower Upper

53 100

52 91.9 70.0 105.0

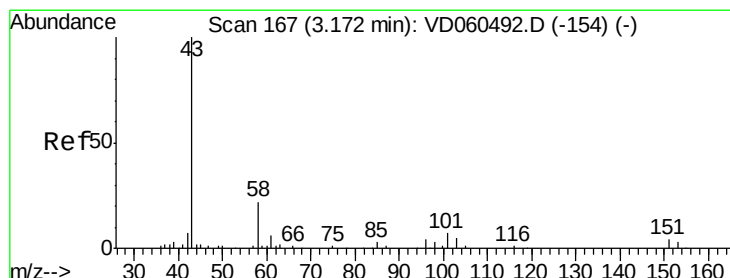
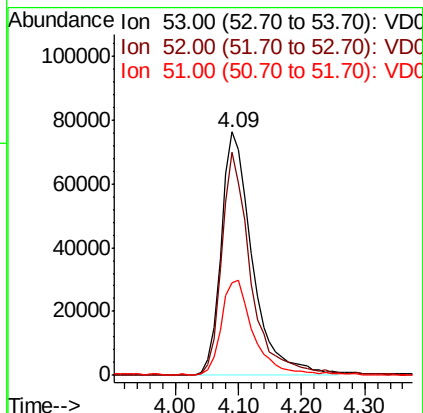
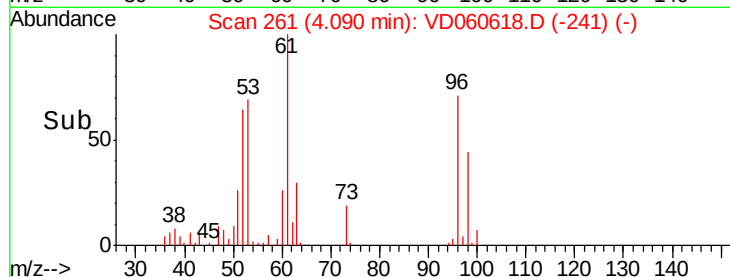
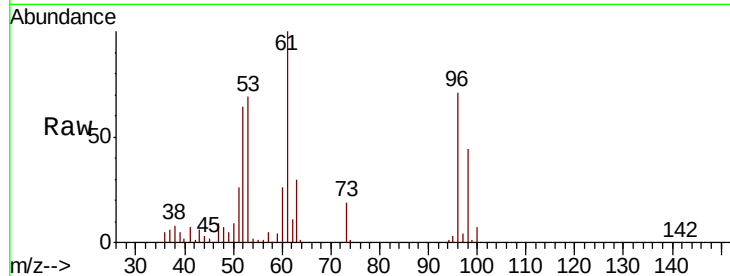
51 37.9 28.8 43.2

Manual Integrations

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#16

Acetone

Concen: 106.283 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD060618.D

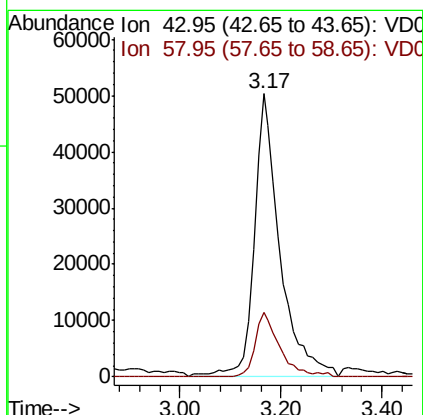
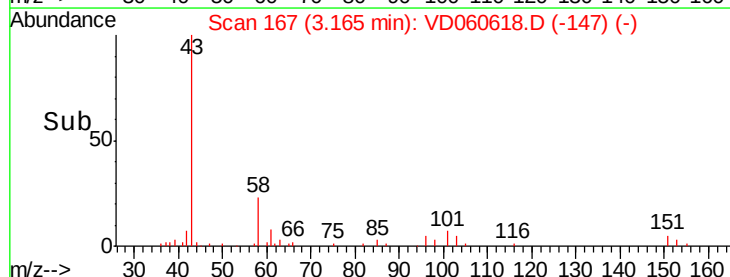
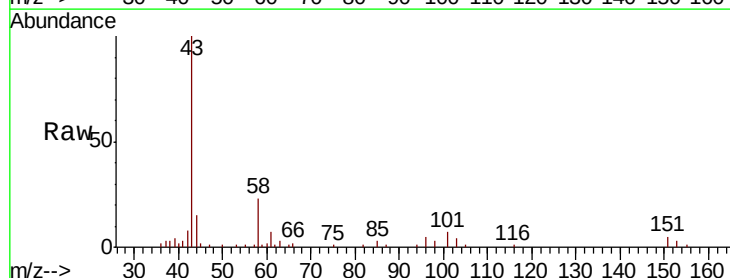
Acq: 18 Dec 2018 13:49

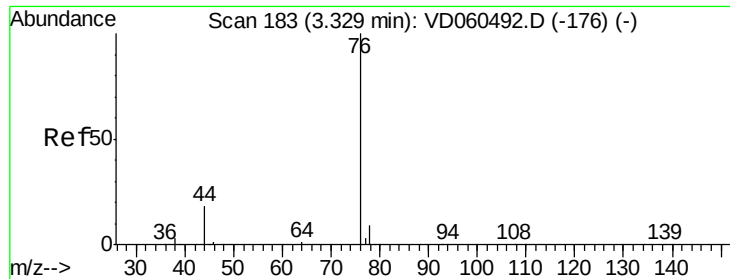
Tgt Ion: 43 Resp: 179295

Ion Ratio Lower Upper

43 100

58 22.7 17.3 25.9





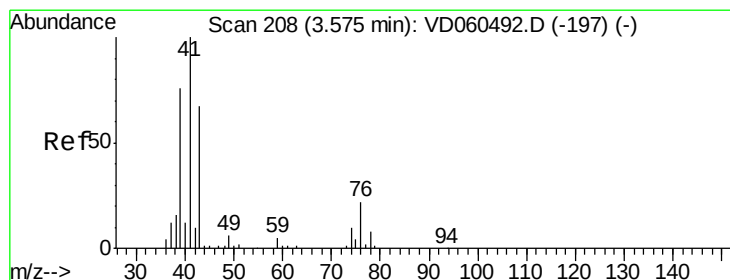
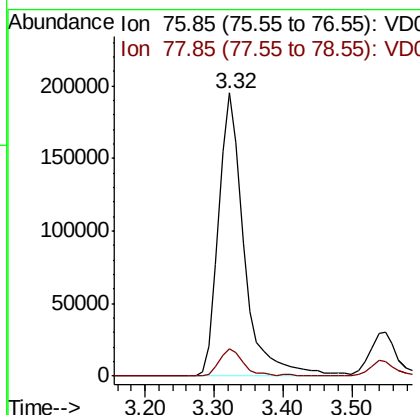
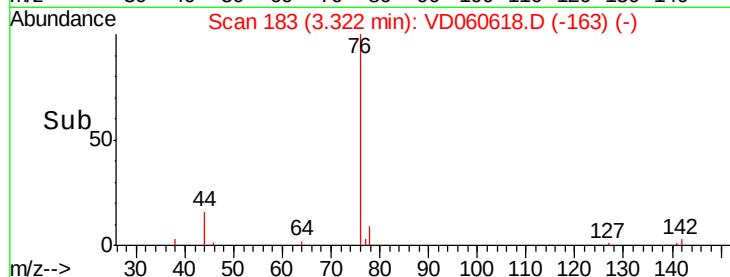
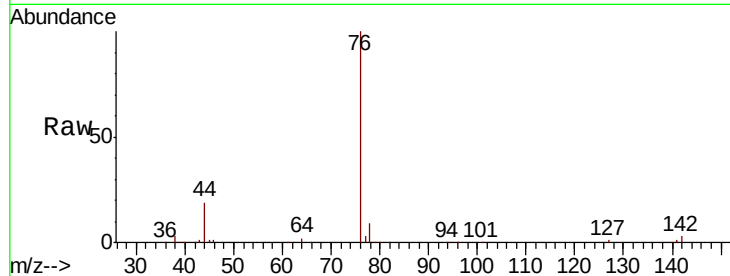
#17
Carbon Disulfide
Concen: 20.775 ug/l
RT: 3.32 min Scan# 183
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.0	10.6

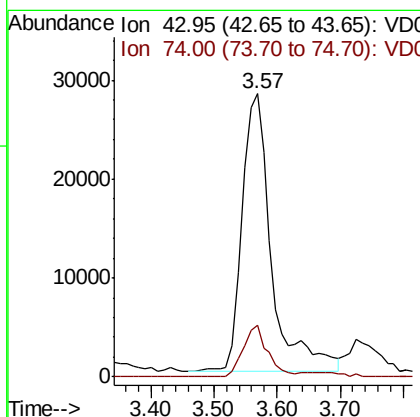
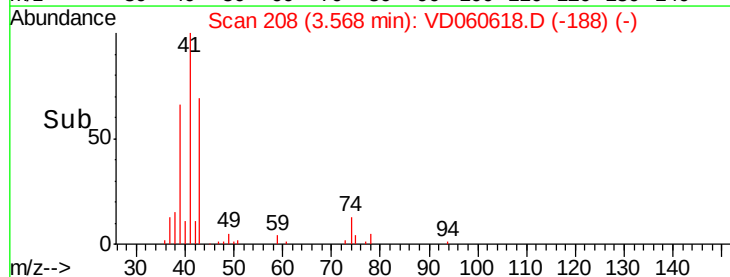
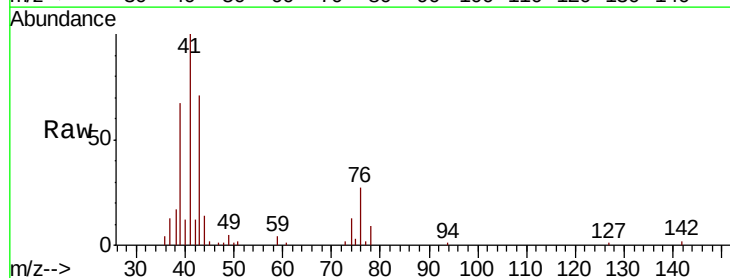
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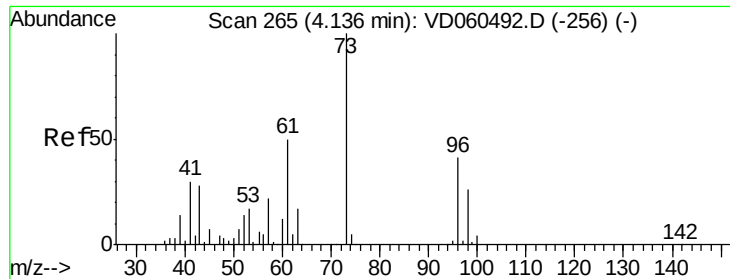
MMDadoda
12/19/2018 2:12:04 PM



#18
Methyl Acetate
Concen: 22.691 ug/l
RT: 3.57 min Scan# 208
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.4	12.0	18.0#





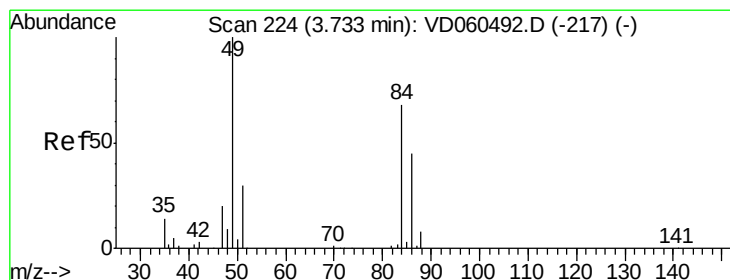
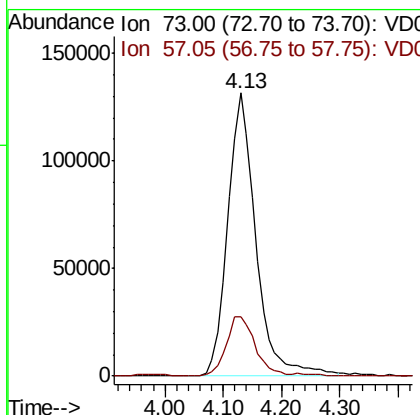
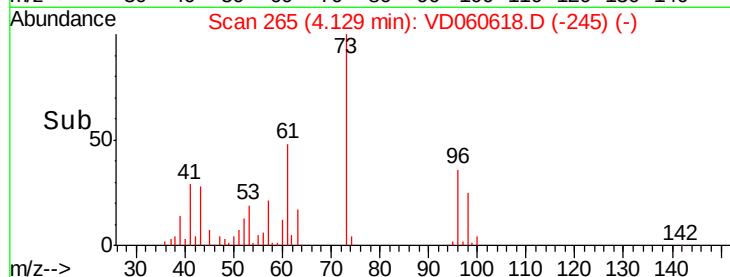
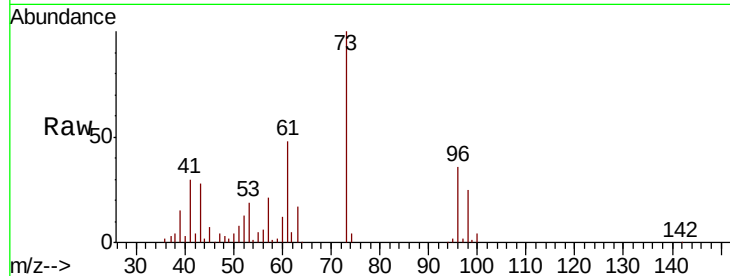
#19
Methyl tert-butyl Ether
Concen: 21.441 ug/l
RT: 4.13 min Scan# 265
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion: 73 Resp: 441279
Ion Ratio Lower Upper
73 100
57 20.9 17.8 26.6

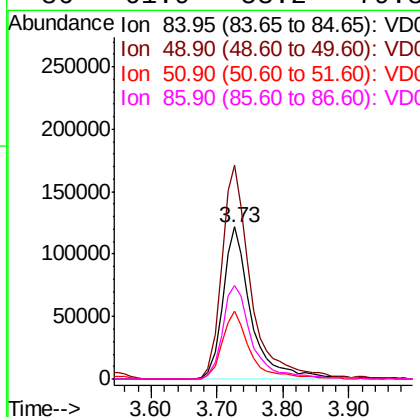
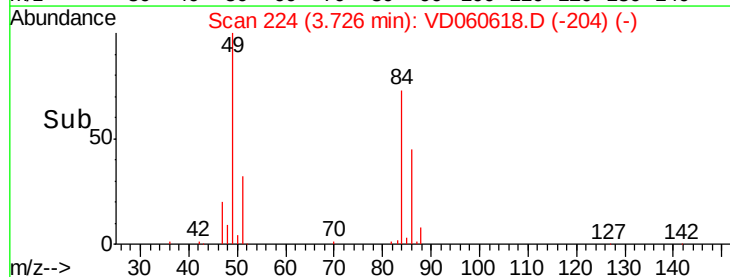
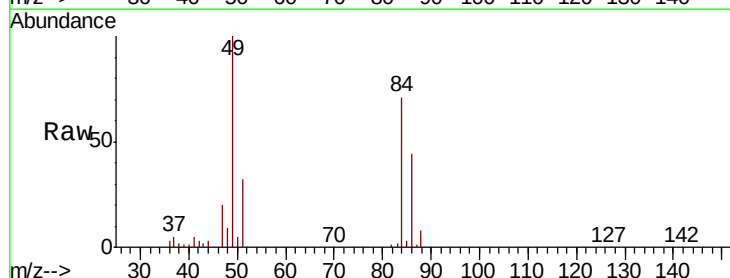
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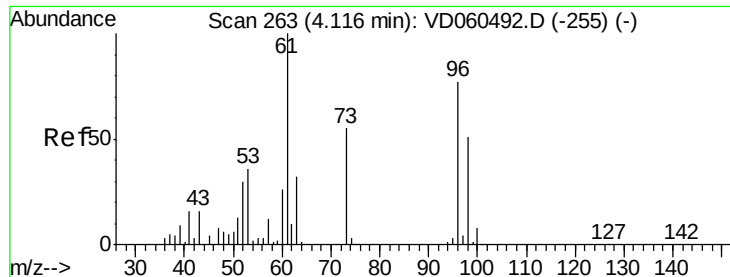
MMDadoda
12/19/2018 2:12:04 PM



#20
Methylene Chloride
Concen: 20.744 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion: 84 Resp: 361848
Ion Ratio Lower Upper
84 100
49 140.6 117.2 175.8
51 44.7 35.3 52.9
86 61.9 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.041 ug/l

RT: 4.11 min Scan# 263

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 96 Resp: 339684

Ion Ratio Lower Upper

96 100

61 129.3 104.2 156.4

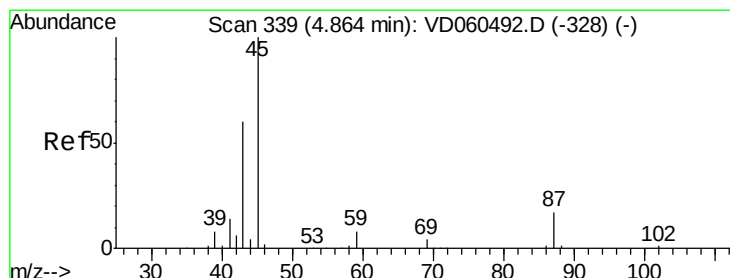
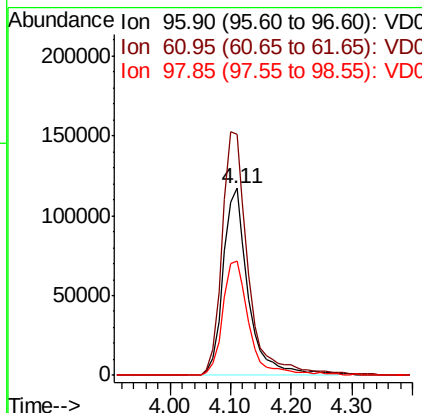
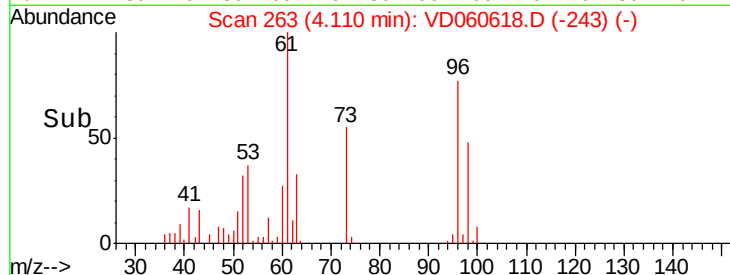
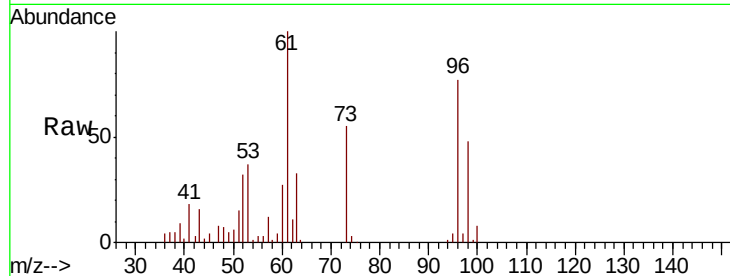
98 61.5 52.8 79.2

Manual Integrations

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#22

Diisopropyl ether

Concen: 21.535 ug/l

RT: 4.86 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Tgt Ion: 45 Resp: 1088724

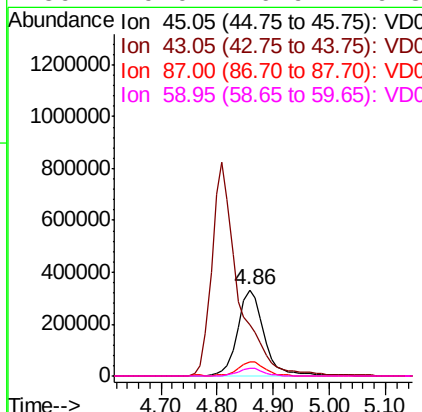
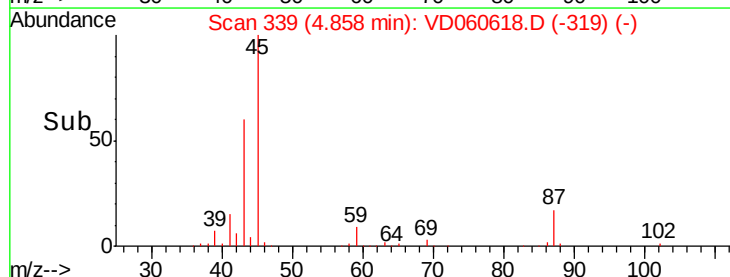
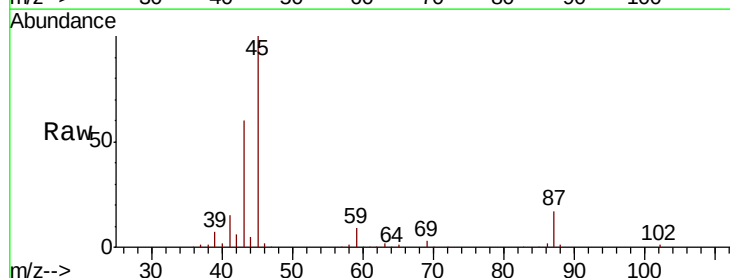
Ion Ratio Lower Upper

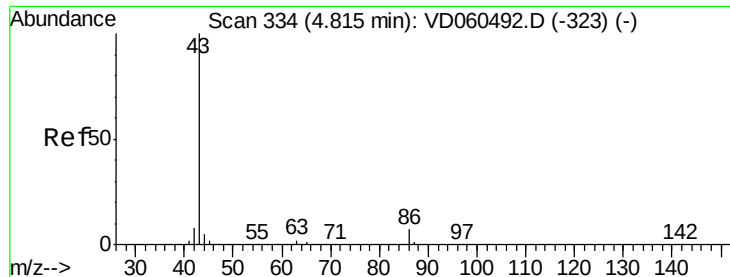
45 100

43 60.0 48.6 73.0

87 17.0 14.0 21.0

59 9.0 6.9 10.3





#23

Vinyl Acetate

Concen: 107.734 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 43 Resp: 2698543

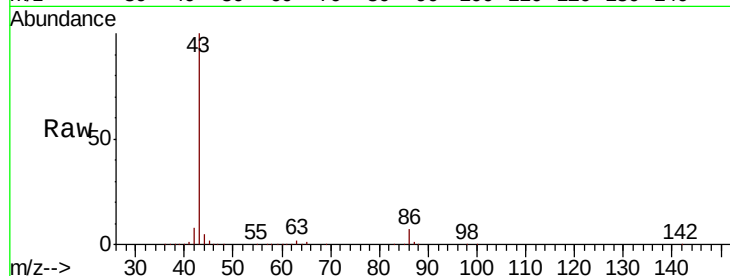
Ion Ratio Lower Upper

43 100

86 6.8 5.5 8.3

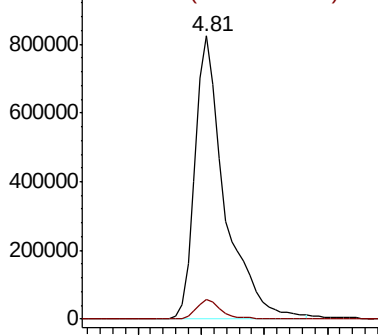
Manual Integrations
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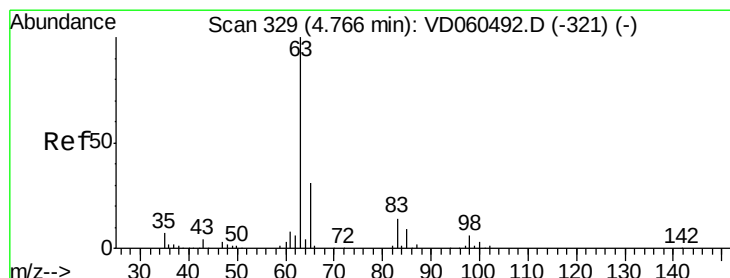
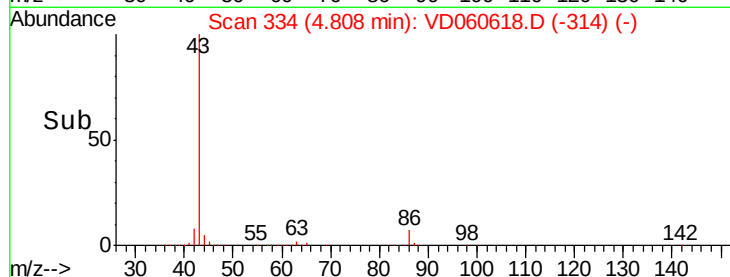


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



Time-->



#24

1,1-Dichloroethane

Concen: 21.341 ug/l

RT: 4.76 min Scan# 329

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

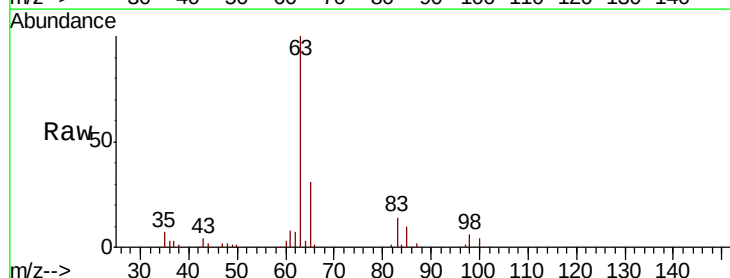
Tgt Ion: 63 Resp: 560507

Ion Ratio Lower Upper

63 100

98 5.6 2.8 8.3

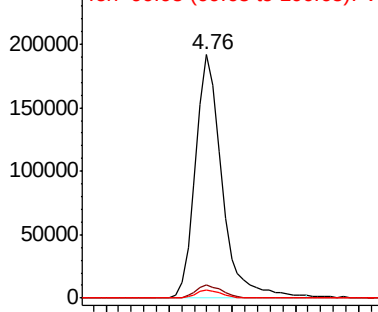
100 3.5 1.7 5.1



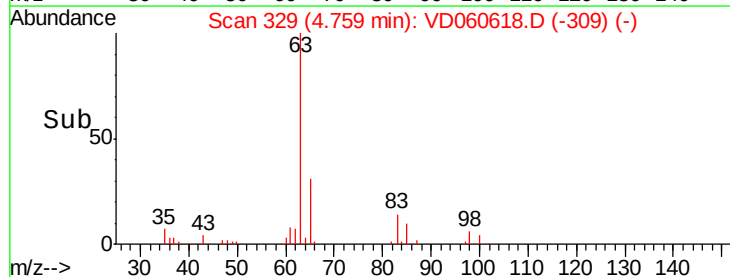
Abundance Ion 62.95 (62.65 to 63.65): VDC

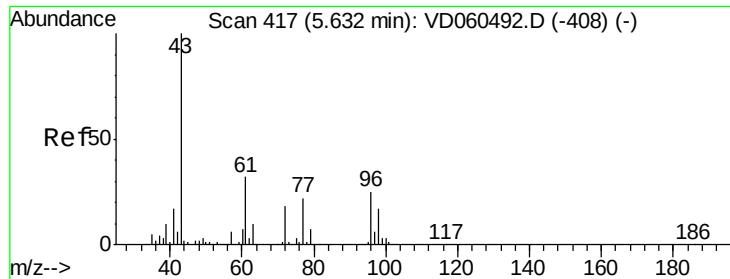
Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC



Time-->





#25

2-Butanone

Concen: 109.236 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 43 Resp: 362548

Ion Ratio Lower Upper

43 100

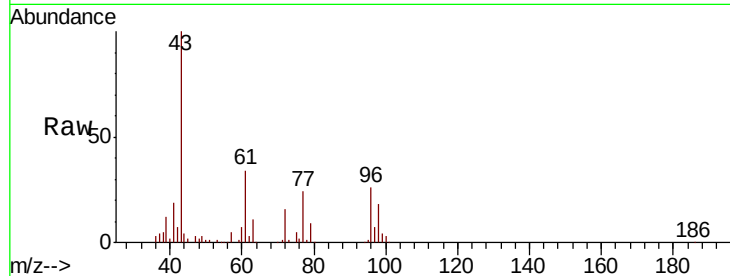
72 16.4 14.6 21.8

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

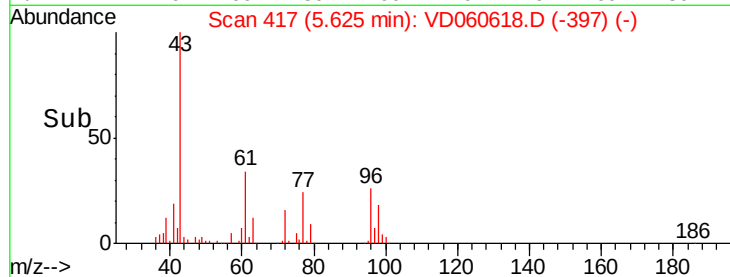
150000

100000

50000

0

Time-->



#26

2,2-Dichloropropane

Concen: 21.982 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.01 min

Lab File: VD060618.D

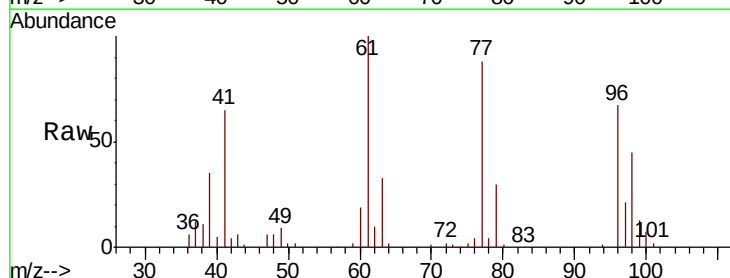
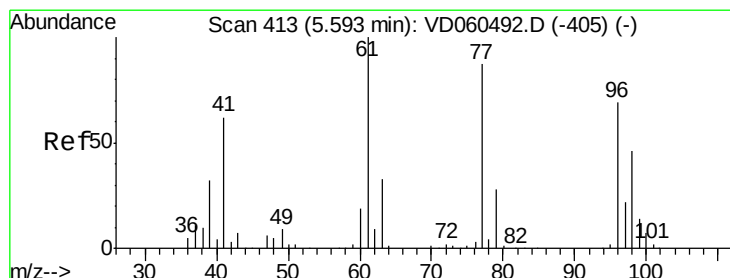
Acq: 18 Dec 2018 13:49

Tgt Ion: 77 Resp: 445998

Ion Ratio Lower Upper

77 100

97 24.1 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

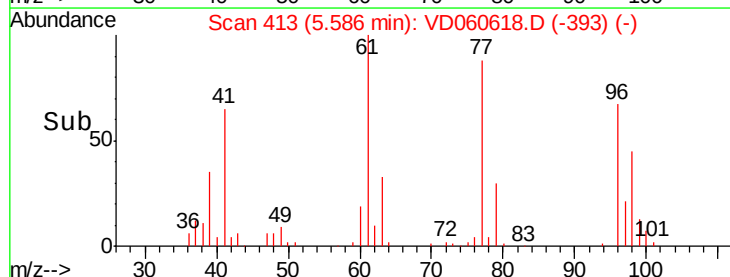
150000

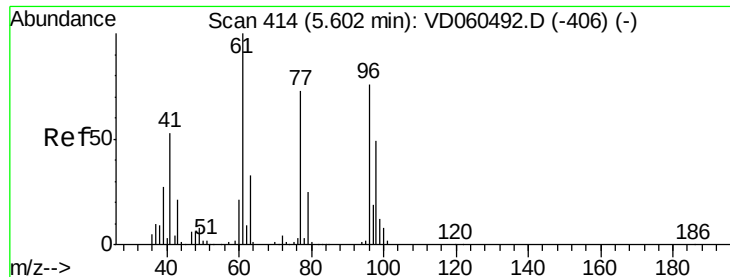
100000

50000

0

Time-->





#27

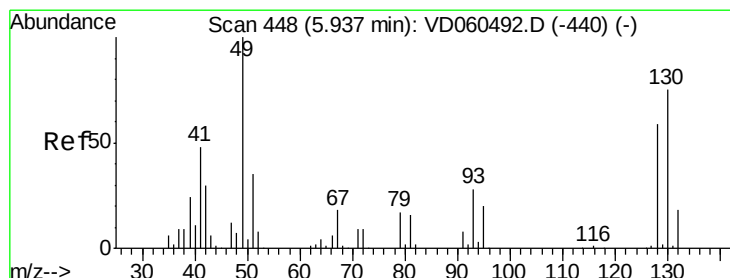
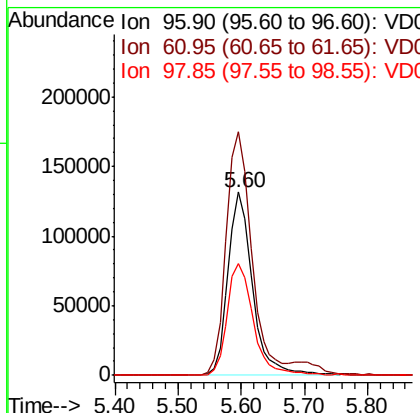
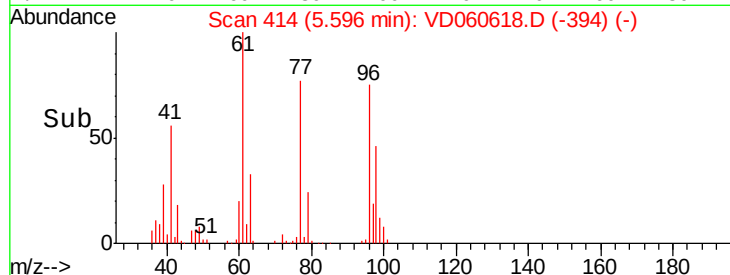
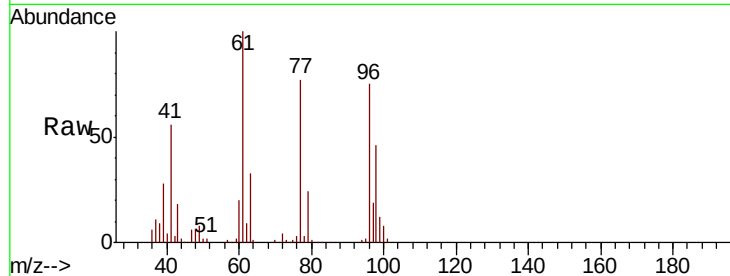
cis-1,2-Dichloroethene
Concen: 21.578 ug/l
RT: 5.60 min Scan# 414
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	132.8	0.0	263.6	
98	61.2	0.0	128.2	

Manual Integrations
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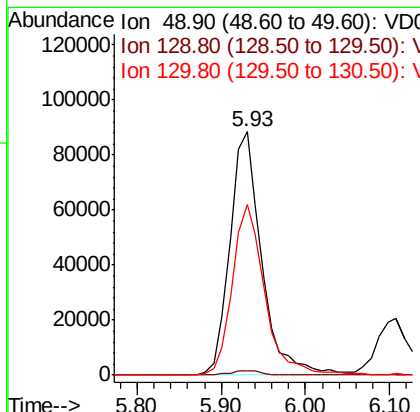
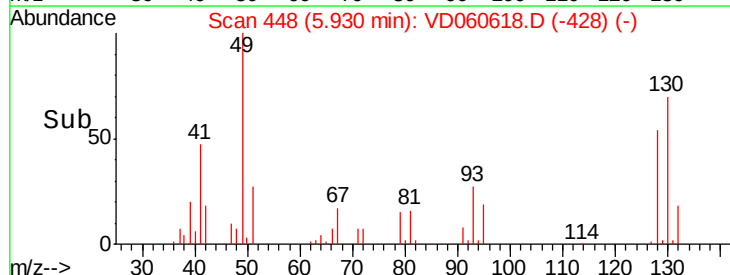
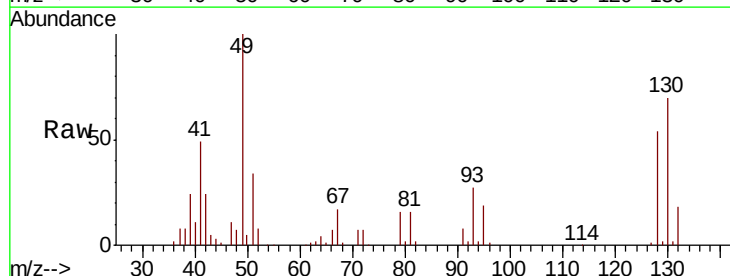
MMDadoda
12/19/2018 2:12:04 PM

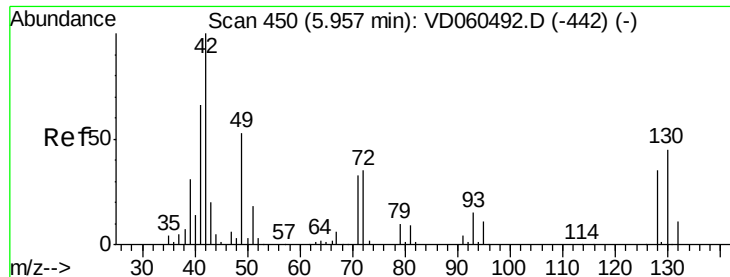


#28

Bromochloromethane
Concen: 19.876 ug/l
RT: 5.93 min Scan# 448
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.9	0.0	3.4	
130	70.0	59.8	89.6	





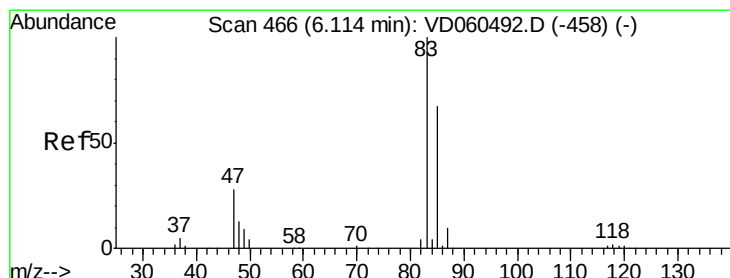
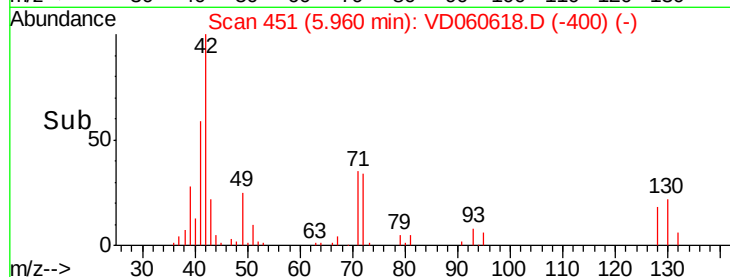
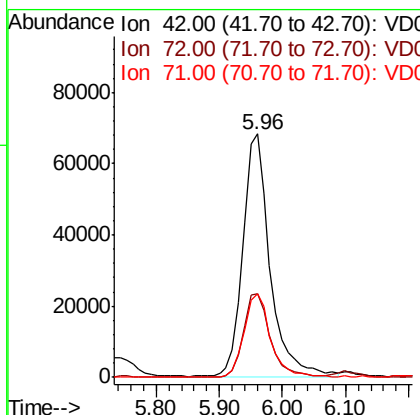
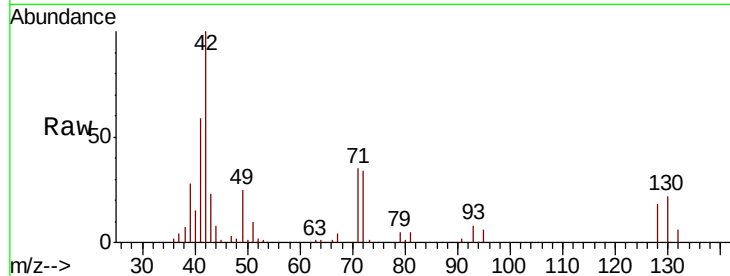
#29
Tetrahydrofuran
Concen: 109.713 ug/l
RT: 5.96 min Scan# 451
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.5	28.0	42.0
71	33.5	27.2	40.8

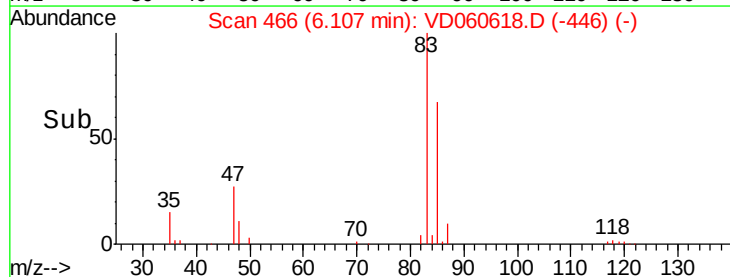
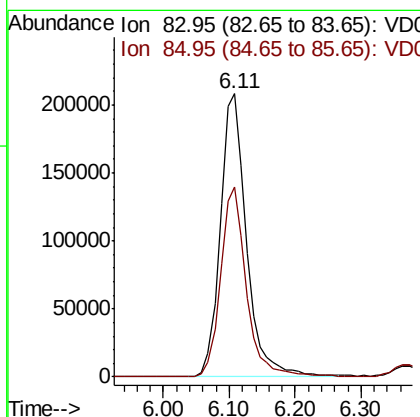
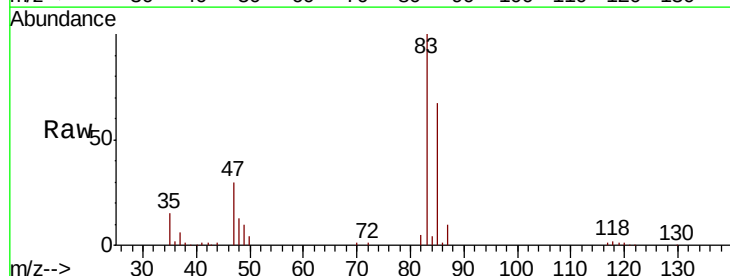
Manual Integrations
APPROVED

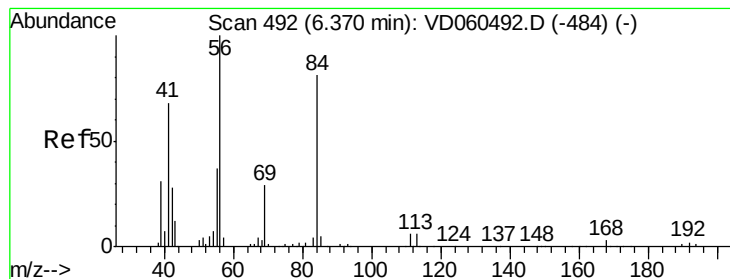
MMDadoda
12/19/2018 2:12:04 PM



#30
Chloroform
Concen: 21.855 ug/l
RT: 6.11 min Scan# 466
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.9	53.4	80.2





#31

Cyclohexane

Concen: 21.224 ug/l

RT: 6.37 min Scan# 493

Delta R.T. 0.00 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

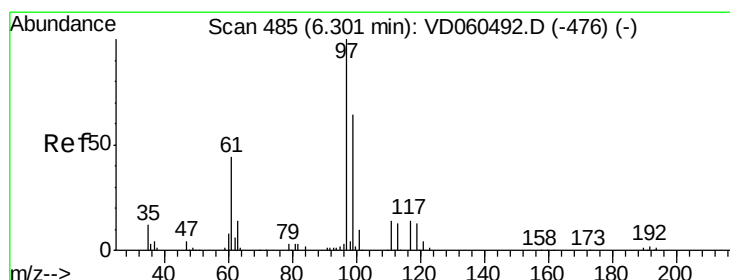
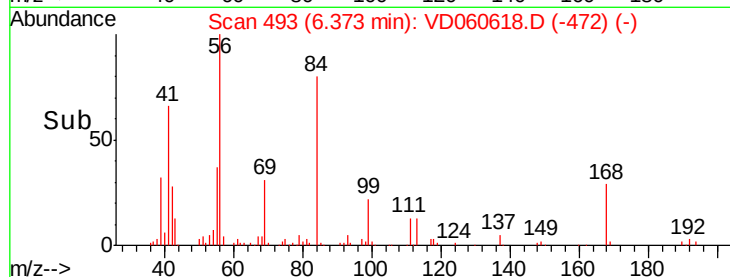
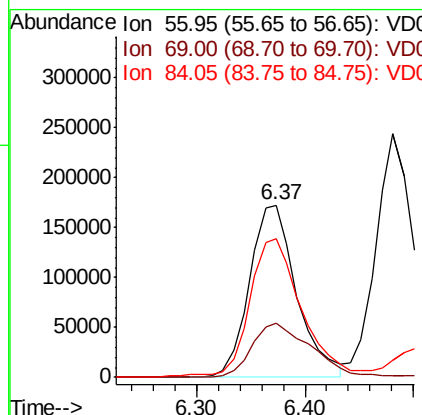
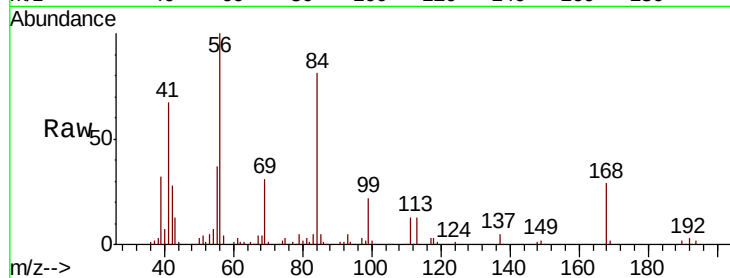
ClientSampleId :

VD1218SBS01

Tot Ion:	56	Resp:	526175
Ion Ratio	Lower	Upper	
56	100		
69	31.3	22.8	34.2
84	80.7	65.1	97.7

Manual Integrations
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12/19/2018 2:12:04 PM



#32

1,1,1-Trichloroethane

Concen: 21.659 ug/l

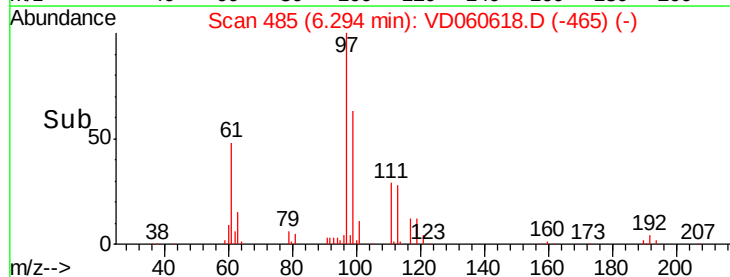
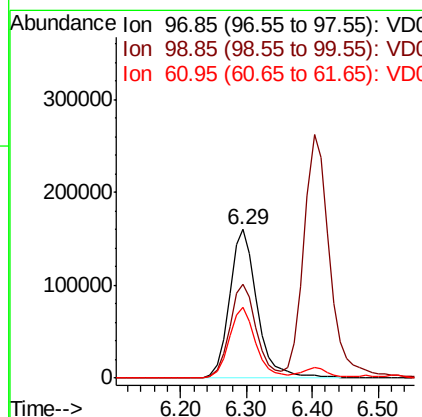
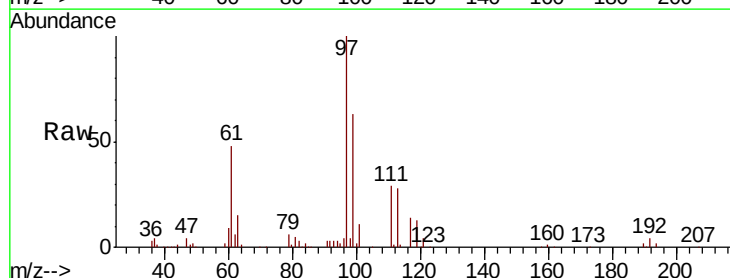
RT: 6.29 min Scan# 485

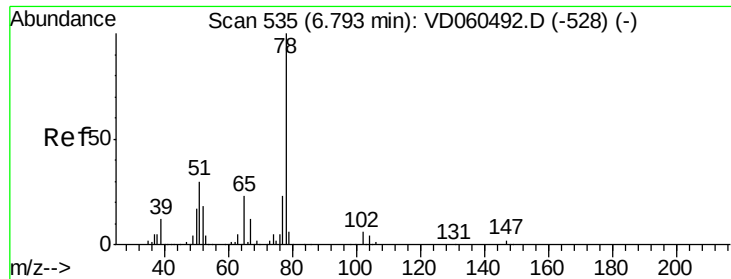
Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Tgt Ion:	97	Resp:	471134
Ion Ratio	Lower	Upper	
97	100		
99	63.4	51.0	76.4
61	47.6	35.3	52.9





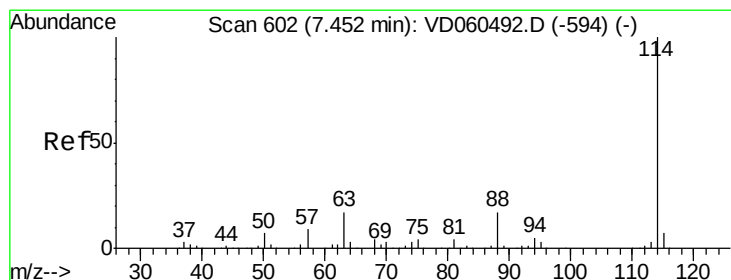
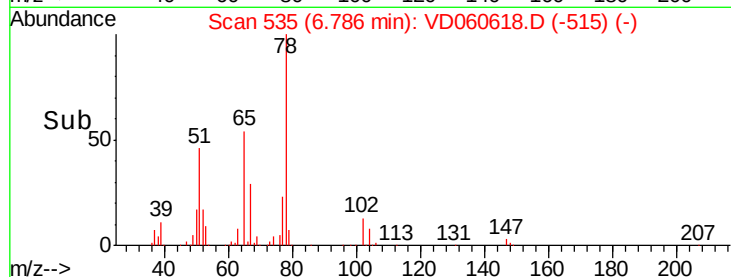
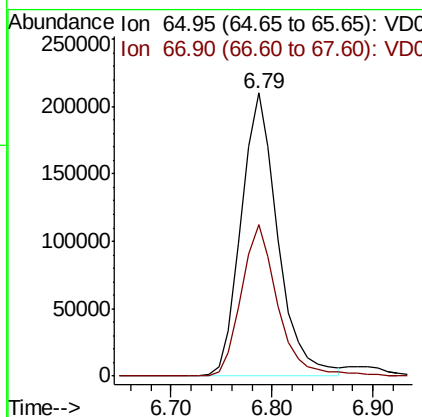
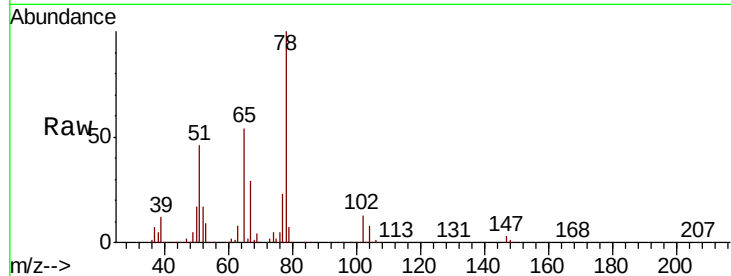
#33
 1,2-Dichloroethane-d4
 Concen: 21.659 ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion: 65 Resp: 530824
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.8

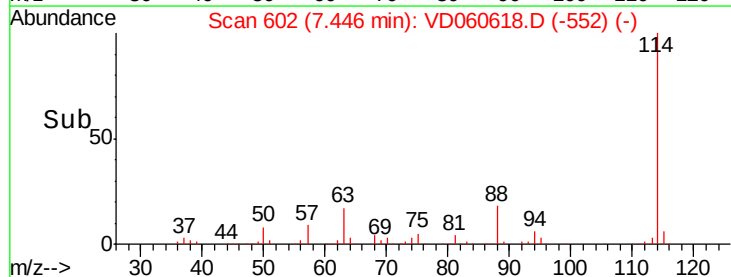
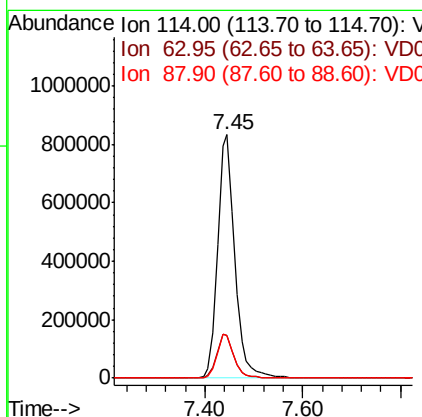
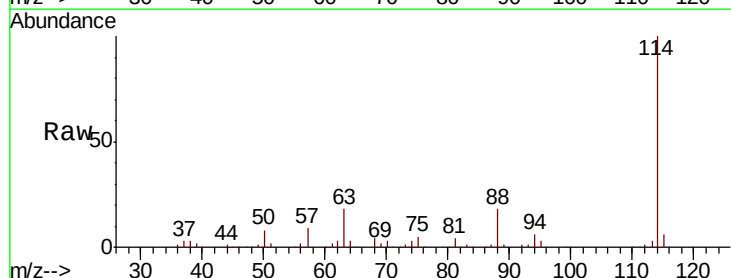
Manual Integrations
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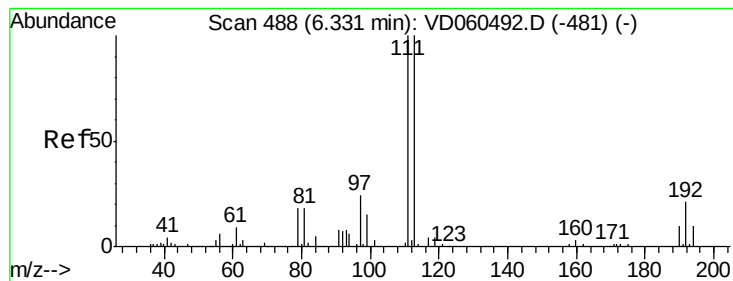
MMDadoda
 12/19/2018 2:12:04 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion: 114 Resp: 2042011
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 34.2
 88 17.7 0.0 35.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 488

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

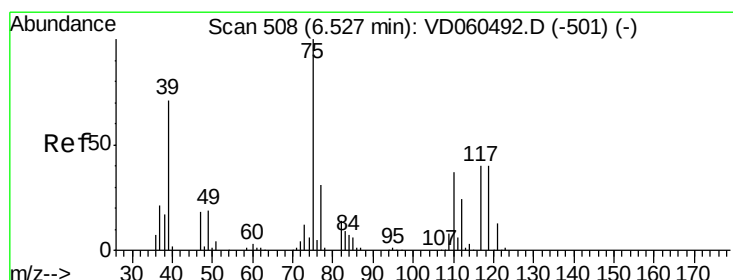
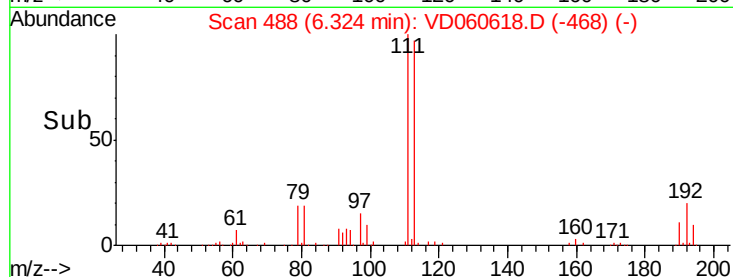
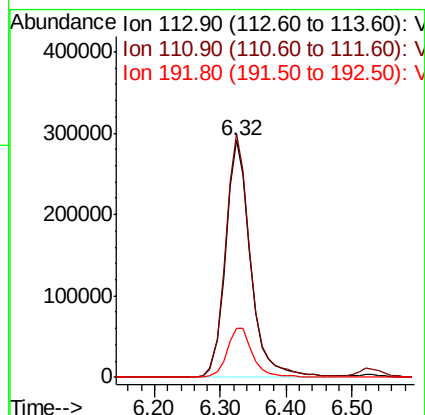
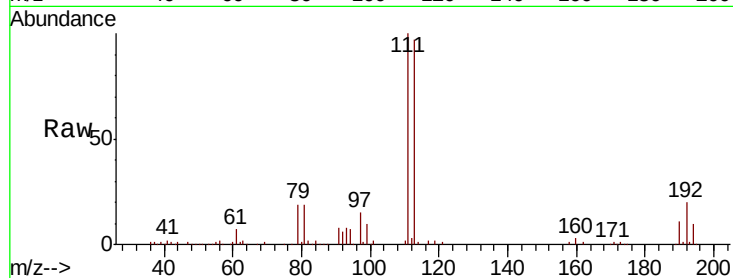
ClientSampleId :

VD1218SBS01

Tot Ion:	113	Resp:	773187
Ion Ratio	Lower	Upper	
113	100		
111	102.7	80.2	120.4
192	20.5	16.6	24.8

Manual Integrations
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12/19/2018 2:12:04 PM



#36

1,1-Dichloropropene

Concen: 22.302 ug/l

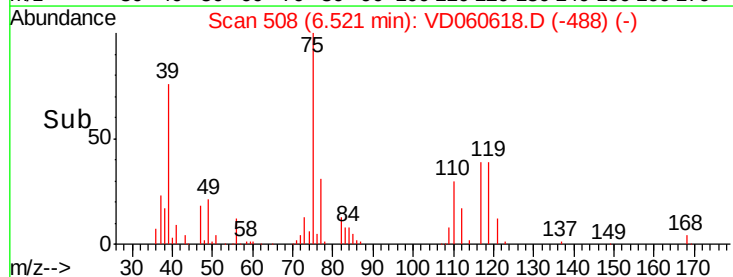
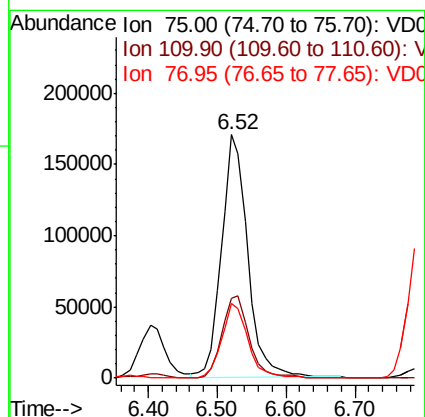
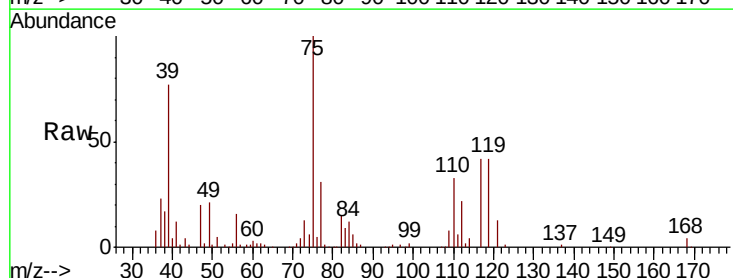
RT: 6.52 min Scan# 508

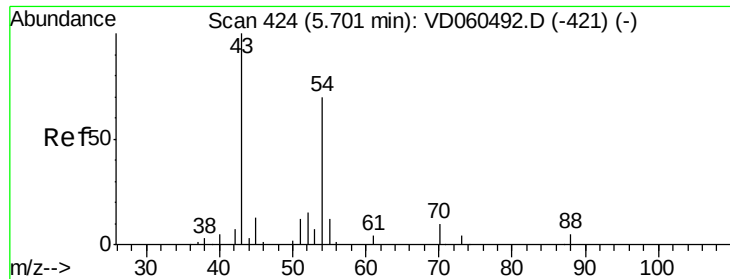
Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Tgt Ion:	75	Resp:	445147
Ion Ratio	Lower	Upper	
75	100		
110	32.9	18.3	54.8
77	30.9	24.6	37.0





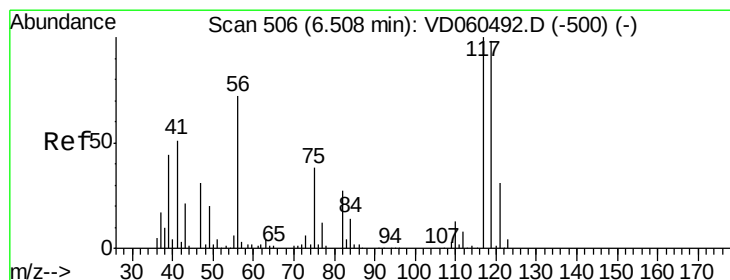
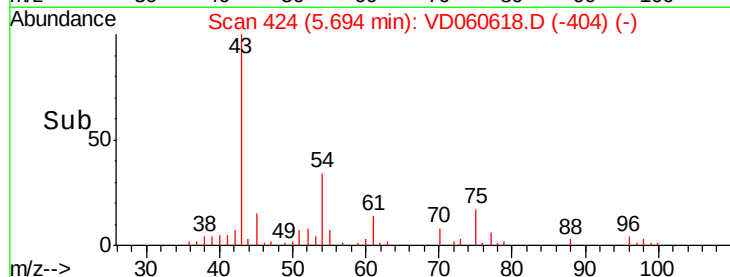
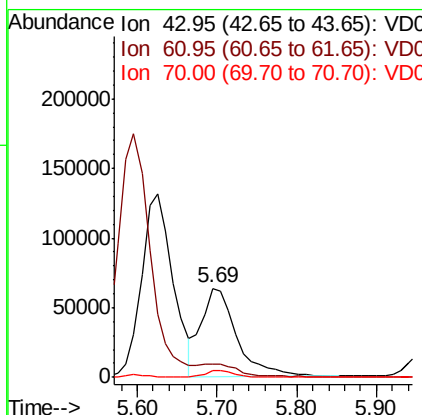
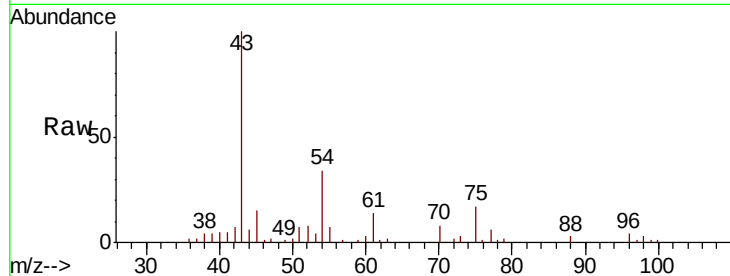
#37
Ethyl Acetate
Concen: 22.663 ug/l
RT: 5.69 min Scan# 424
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	12.4	18.6
70	8.0	5.4	8.0

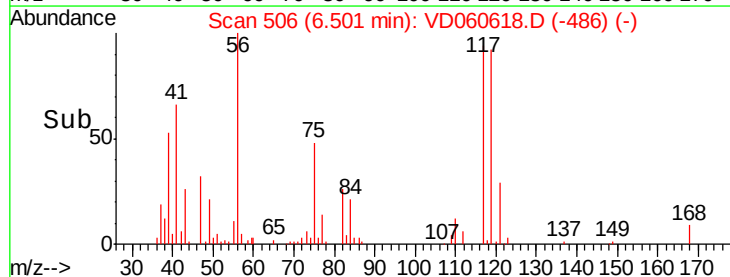
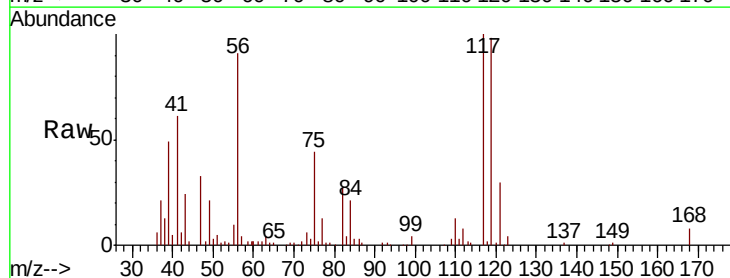
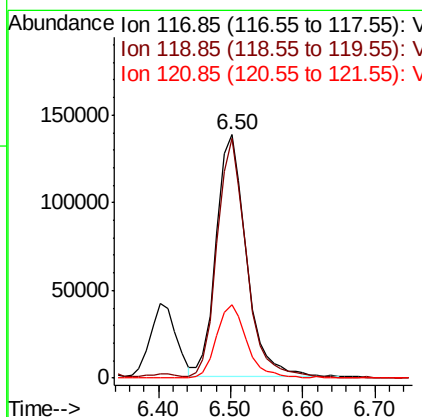
Manual Integrations
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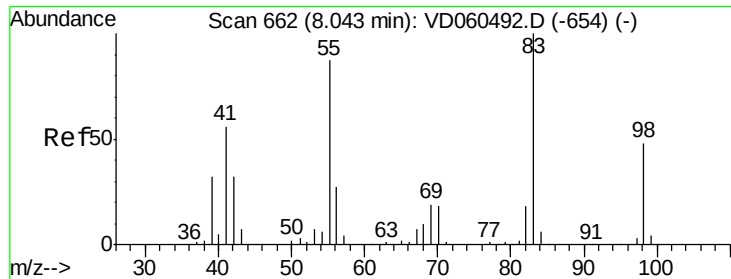
MMDadoda
12/19/2018 2:12:04 PM



#38
Carbon Tetrachloride
Concen: 22.421 ug/l
RT: 6.50 min Scan# 506
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.8	115.2
121	30.3	24.4	36.6





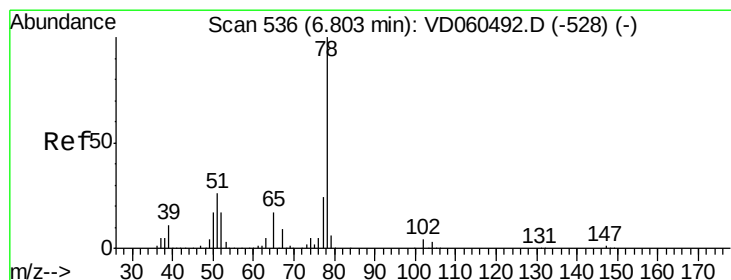
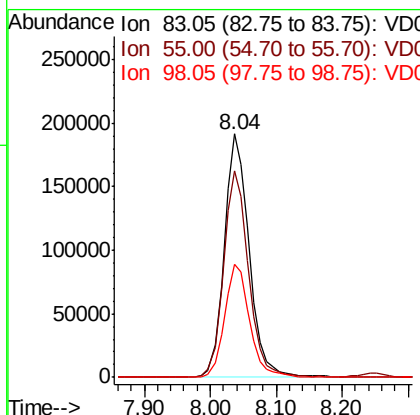
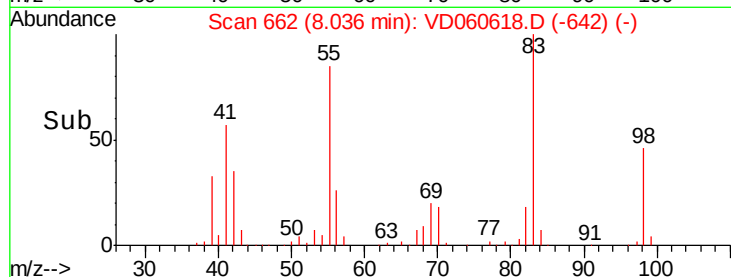
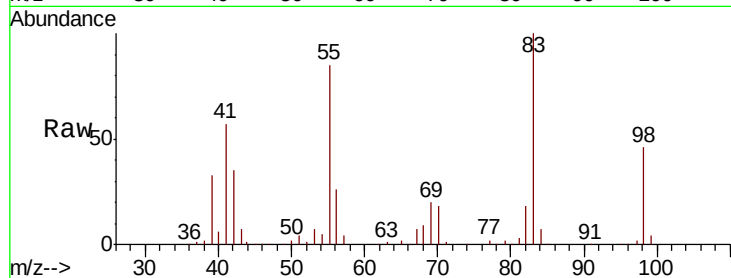
#39
Methylvlcyclohexane
Concen: 22.185 ug/l
RT: 8.04 min Scan# 662
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.9	69.8	104.8
98	46.4	38.4	57.6

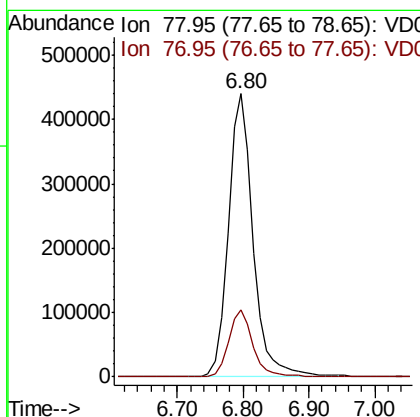
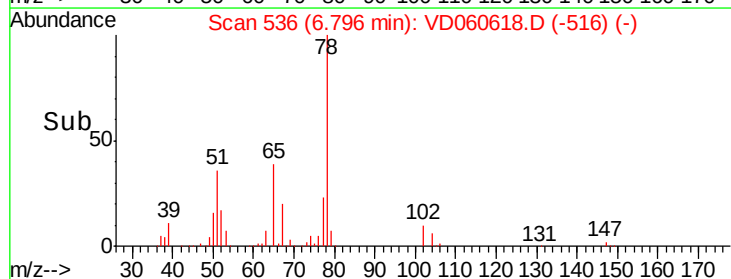
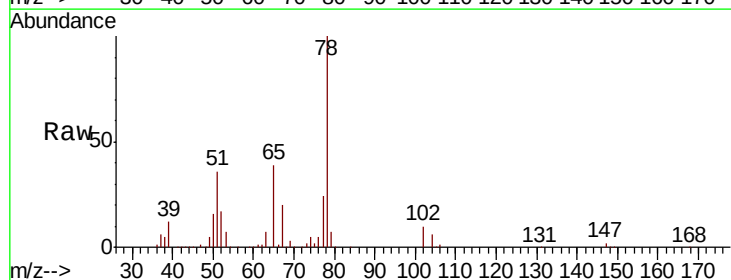
Manual Integrations
APPROVED

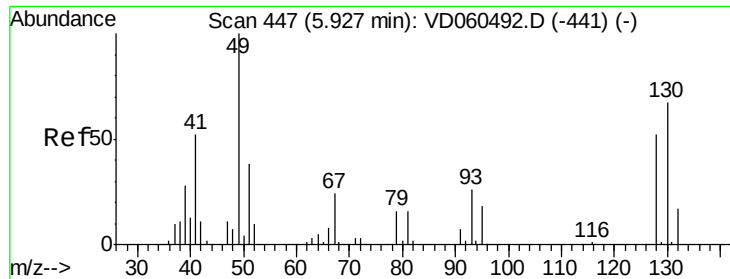
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#40
Benzene
Concen: 22.573 ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.9	28.3





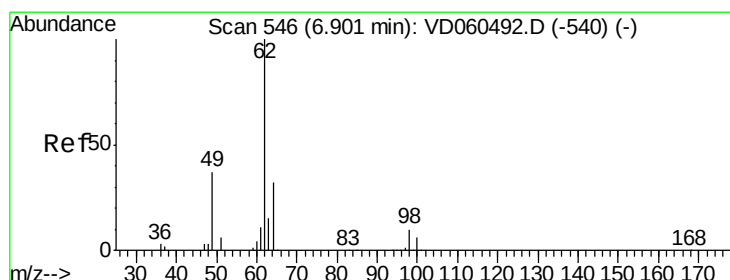
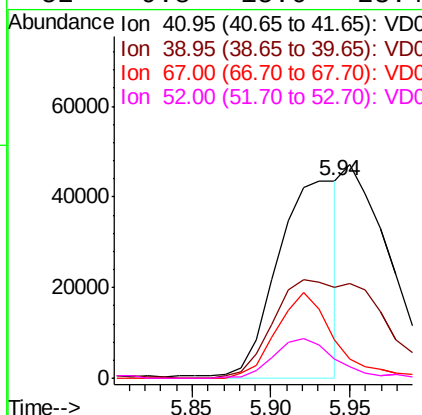
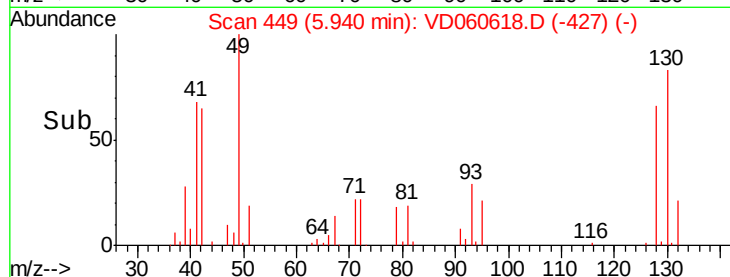
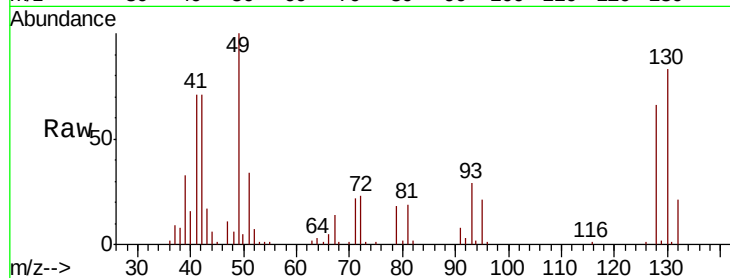
#41
Methacrylonitrile
Concen: 24.991 ug/l m
RT: 5.94 min Scan# 449
Delta R.T. 0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	46.3	42.6	63.8
67	19.3	36.2	54.4#
52	9.8	15.6	23.4#

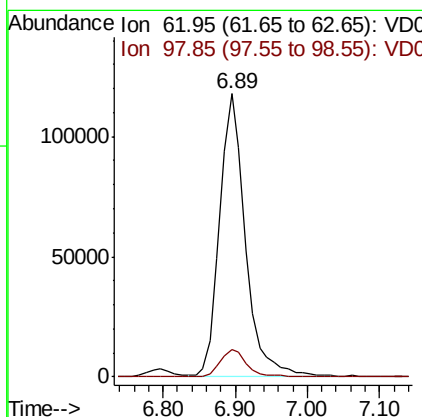
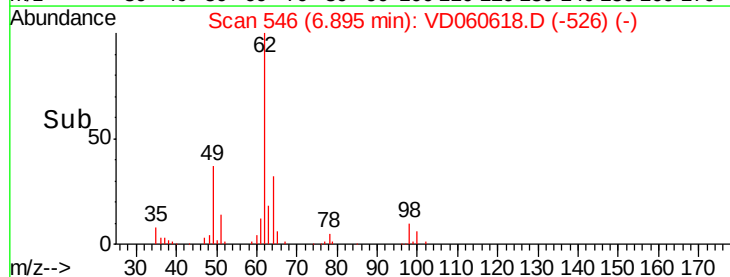
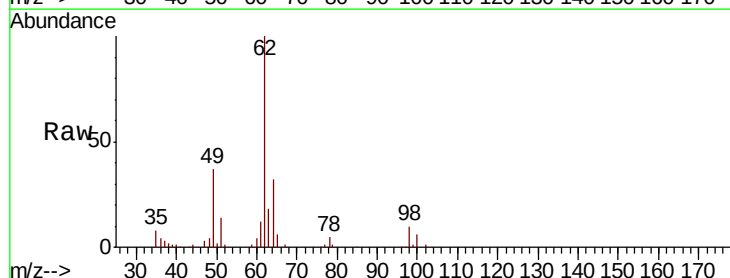
Manual Integrations
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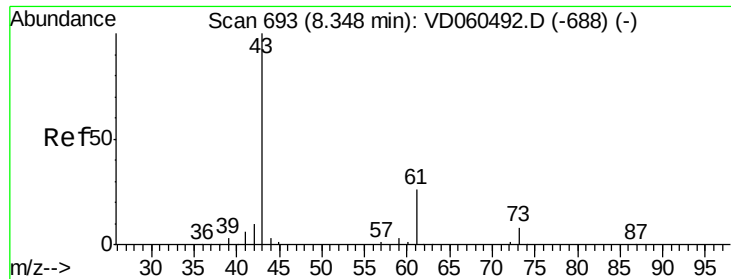
MMDadoda
12/19/2018 2:12:04 PM



#42
1,2-Dichloroethane
Concen: 22.273 ug/l
RT: 6.89 min Scan# 546
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	20.2





#43

Isopropyl Acetate

Concen: 21.161 ug/l

RT: 8.35 min Scan# 694

Delta R.T. 0.00 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

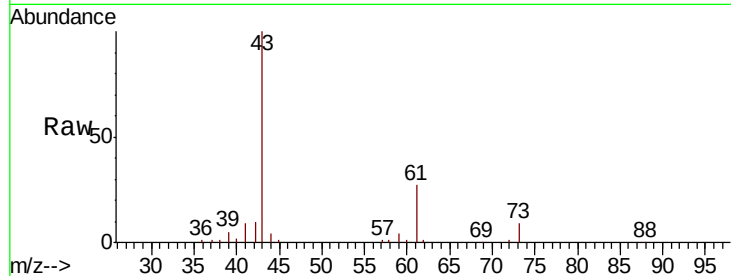
ClientSampleId :

VD1218SBS01

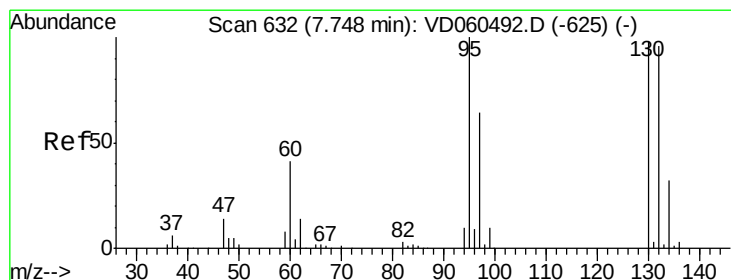
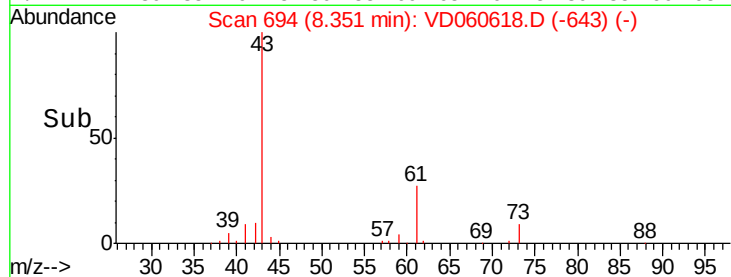
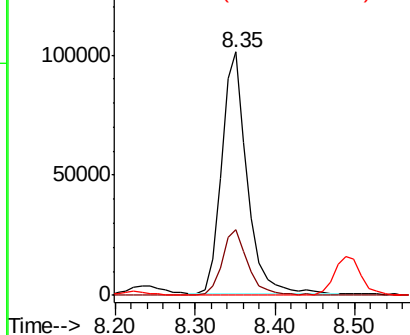
Tot Ion:	43	Resp:	226120
Ion	Ratio	Lower	Upper
43	100		
61	26.8	21.0	31.4
87	0.0	0.2	0.2#

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Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 22.337 ug/l

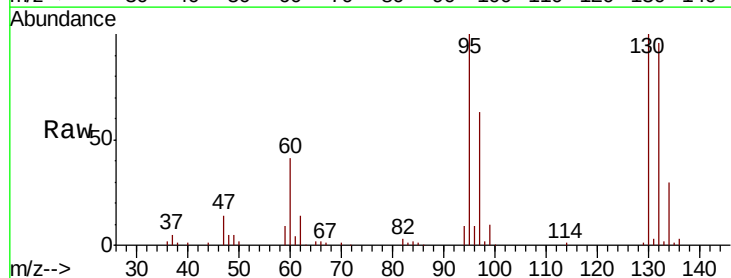
RT: 7.74 min Scan# 632

Delta R.T. -0.01 min

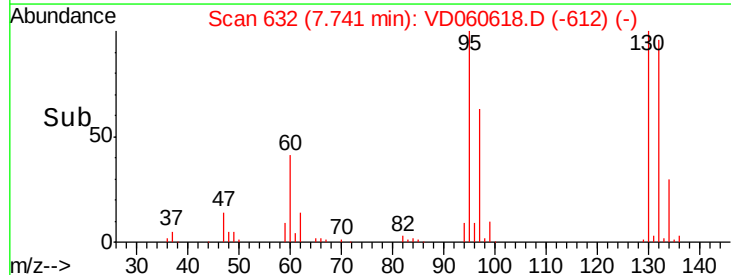
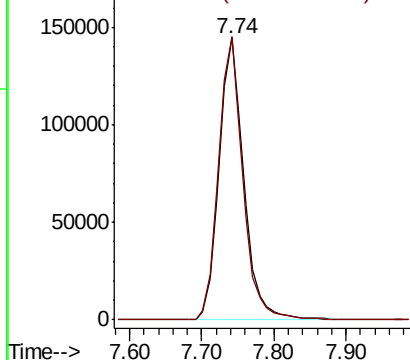
Lab File: VD060618.D

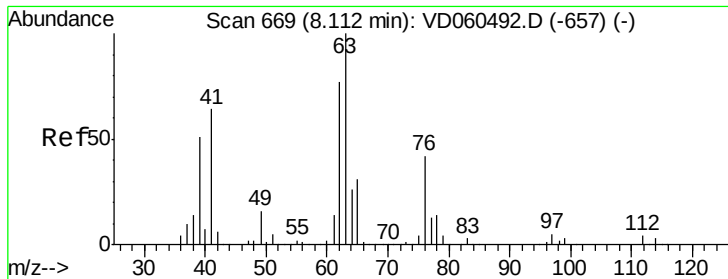
Acq: 18 Dec 2018 13:49

Tgt Ion:	130	Resp:	340537
Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	203.8



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 21.620 ug/l

RT: 8.11 min Scan# 669

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 63 Resp: 272773

Ion Ratio Lower Upper

63 100

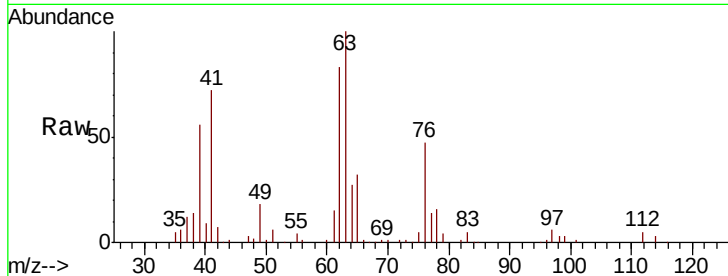
65 31.7 24.6 37.0

Manual Integrations

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

120000

100000

80000

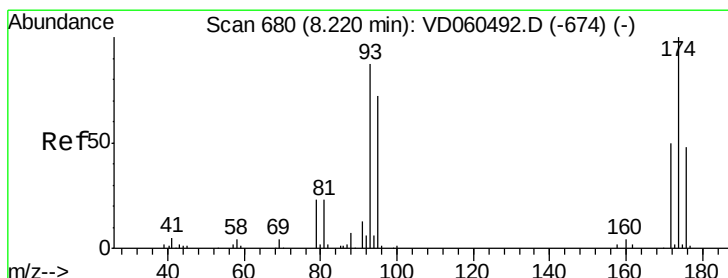
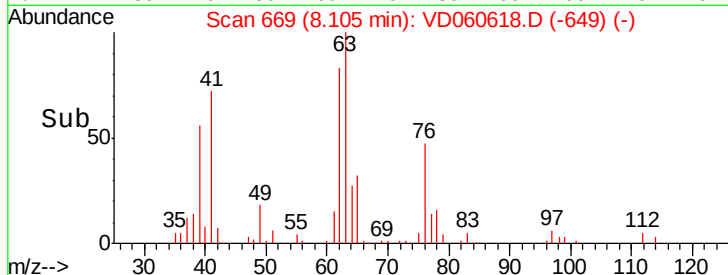
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 21.930 ug/l

RT: 8.21 min Scan# 680

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

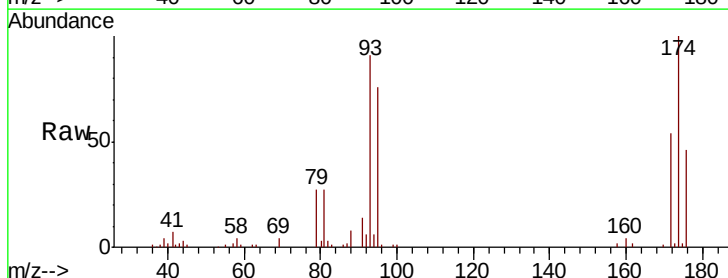
Tgt Ion: 93 Resp: 159861

Ion Ratio Lower Upper

93 100

95 83.2 65.6 98.4

174 109.9 91.7 137.5



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

100000

80000

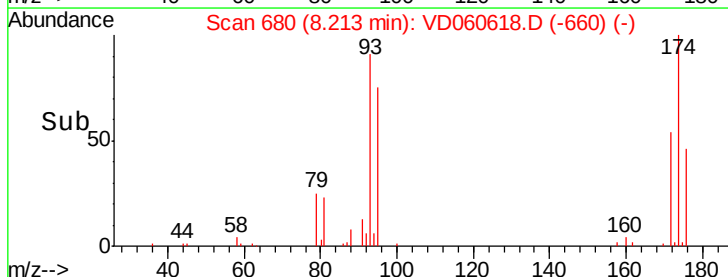
60000

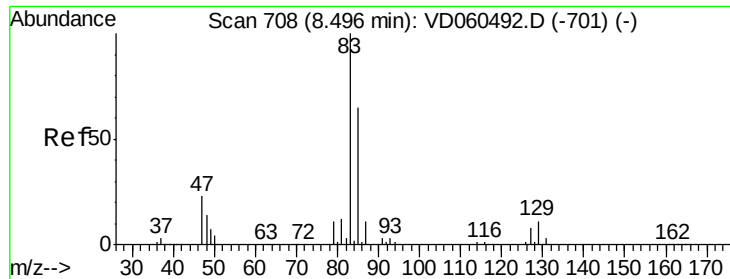
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 22.304 ug/l

RT: 8.49 min Scan# 708

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 83 Resp: 385772

Ion Ratio Lower Upper

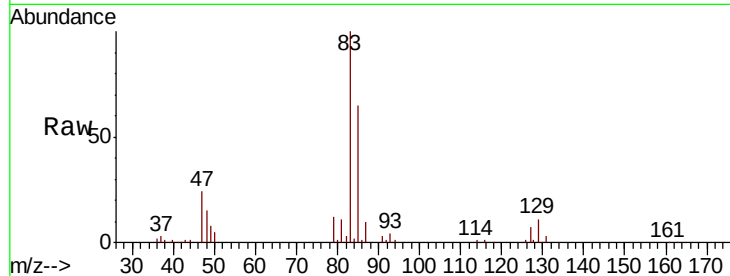
83 100

85 64.6 52.2 78.4

127 7.5 6.7 10.1

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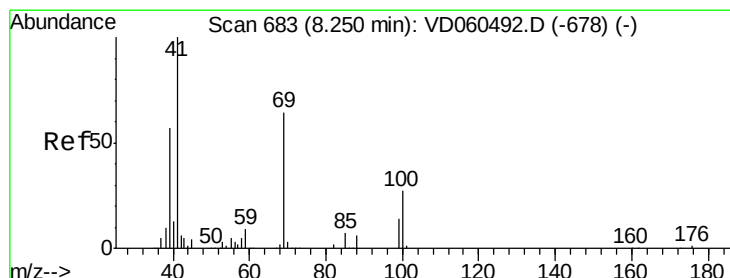
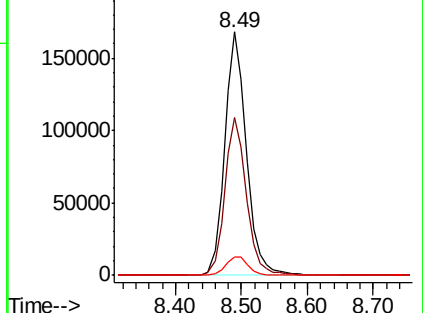
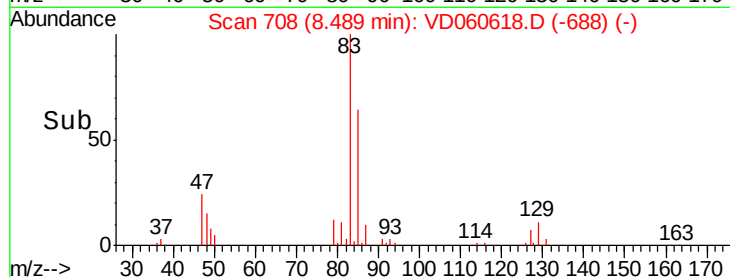
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Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 22.047 ug/l

RT: 8.24 min Scan# 683

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

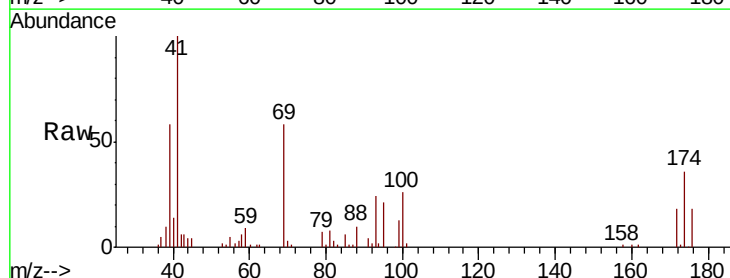
Tgt Ion: 41 Resp: 139397

Ion Ratio Lower Upper

41 100

69 58.3 50.2 75.4

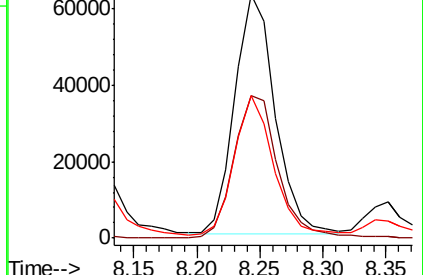
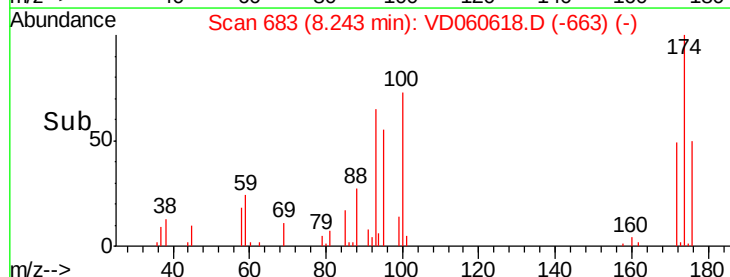
39 58.4 46.1 69.1

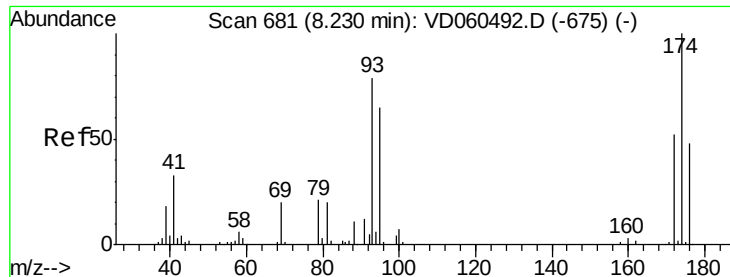


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





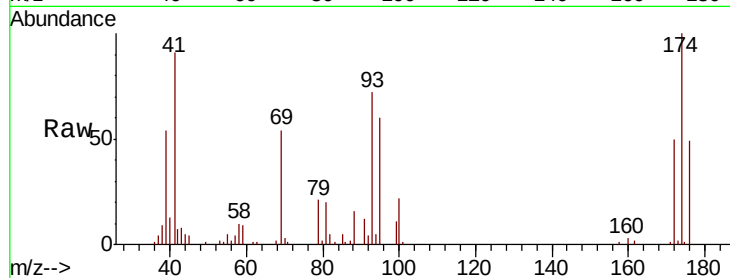
#49
1,4-Dioxane
Concen: 436.282 ug/l
RT: 8.23 min Scan# 682
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

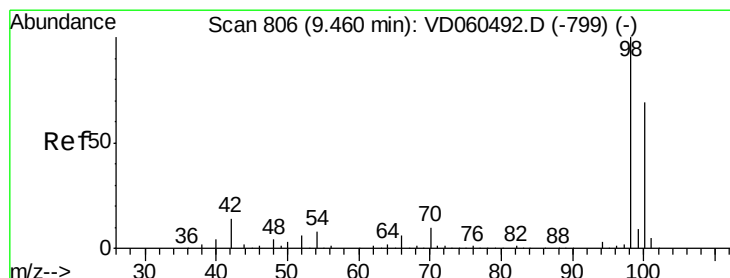
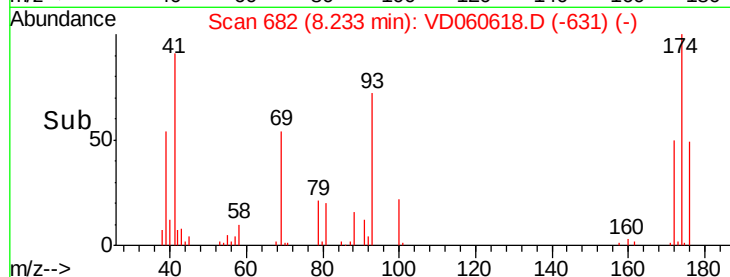
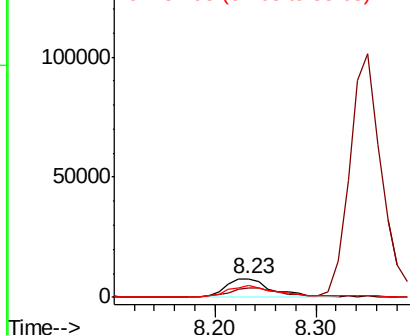
Tot Ion	Ratio	Lower	Upper
88	100		
43	50.8	32.9	49.3#
58	61.6	47.7	71.5

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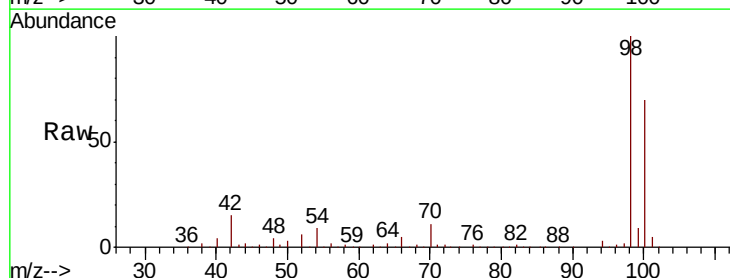


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

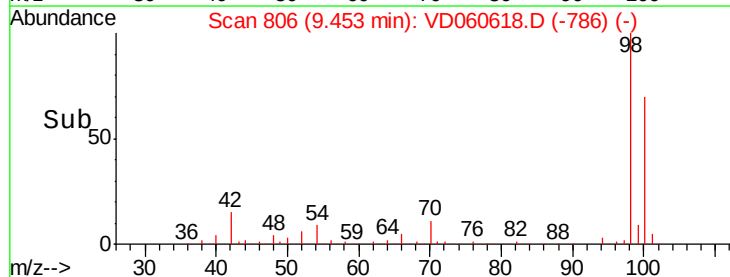
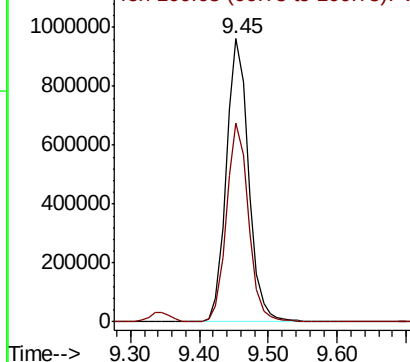


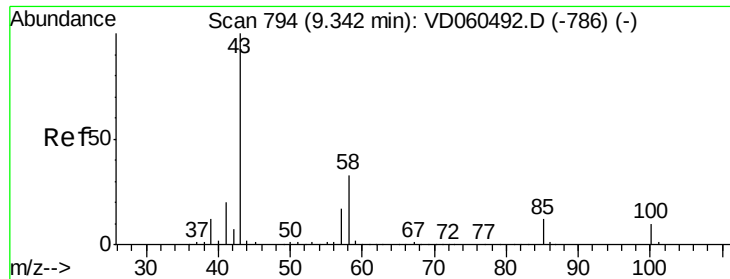
#50
Toluene-d8
Concen: 436.282 ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.2	55.7	83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 108.704 ug/l

RT: 9.35 min Scan# 795

Delta R.T. 0.00 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 43 Resp: 722558

Ion Ratio Lower Upper

43 100

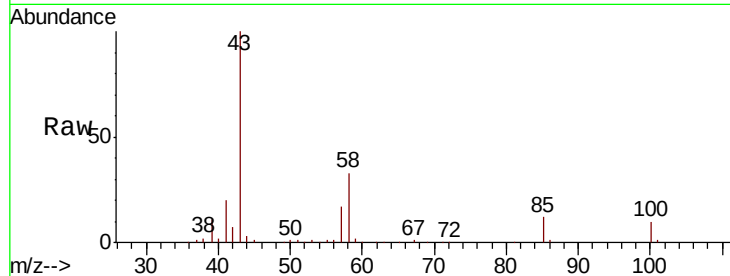
58 32.9 26.3 39.5

Manual Integrations

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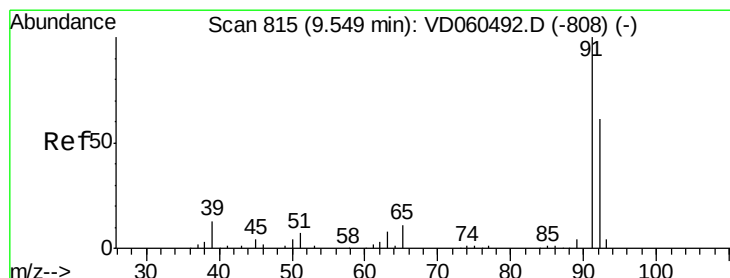
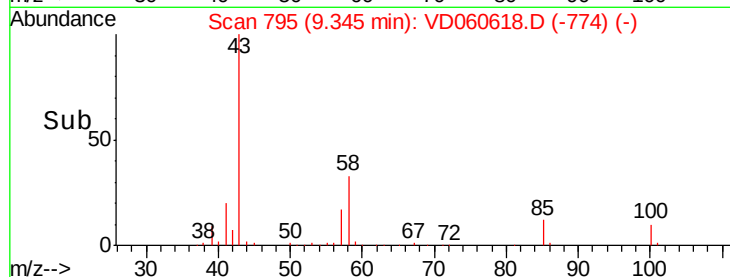
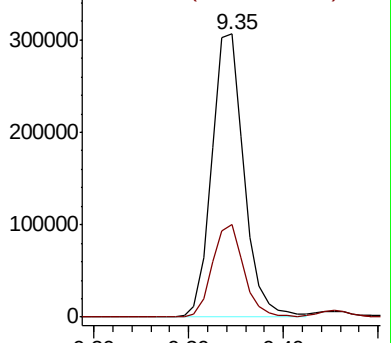
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 22.004 ug/l

RT: 9.55 min Scan# 816

Delta R.T. 0.00 min

Lab File: VD060618.D

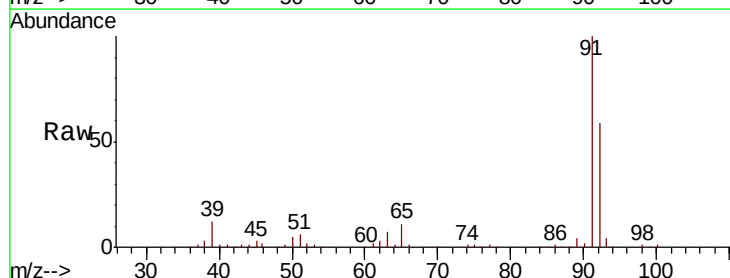
Acq: 18 Dec 2018 13:49

Tgt Ion: 92 Resp: 701577

Ion Ratio Lower Upper

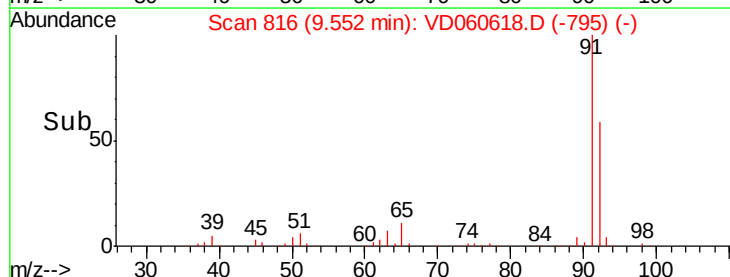
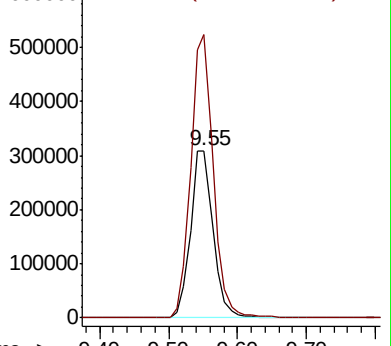
92 100

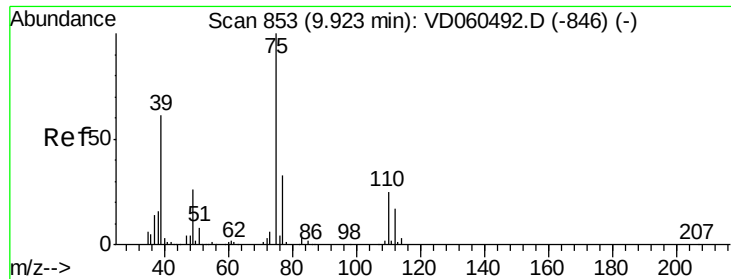
91 169.4 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 22.421 ug/l

RT: 9.92 min Scan# 853

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 75 Resp: 318654

Ion Ratio Lower Upper

75 100

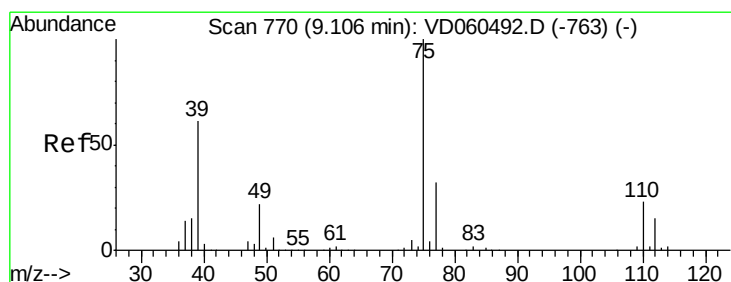
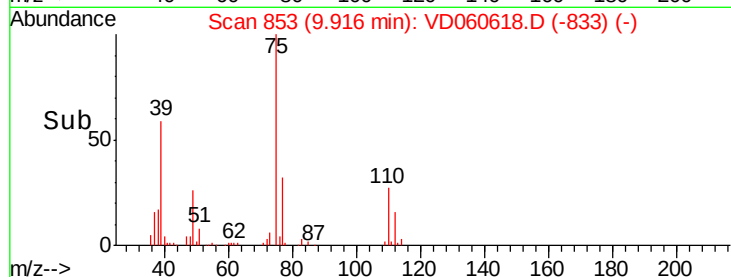
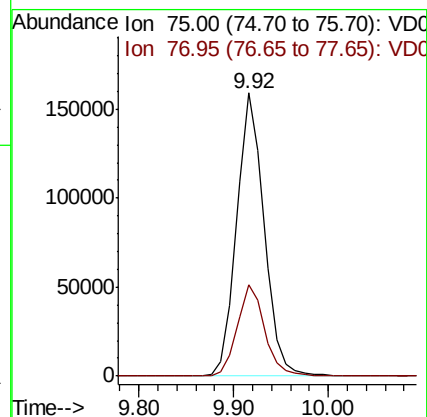
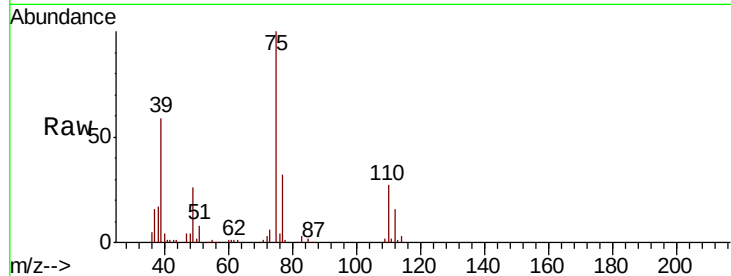
77 32.3 26.2 39.2

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#54

cis-1,3-Dichloropropene

Concen: 22.285 ug/l

RT: 9.10 min Scan# 770

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

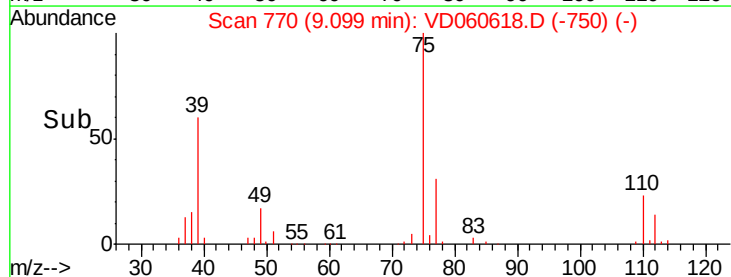
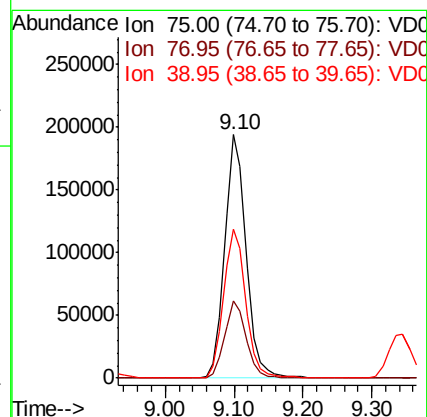
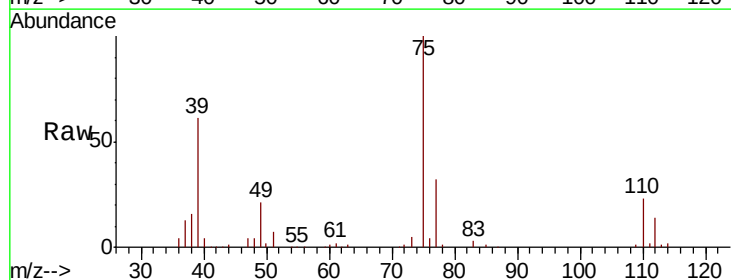
Tgt Ion: 75 Resp: 416125

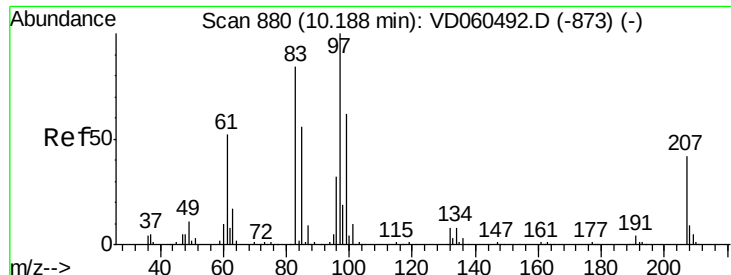
Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

39 61.4 48.6 73.0





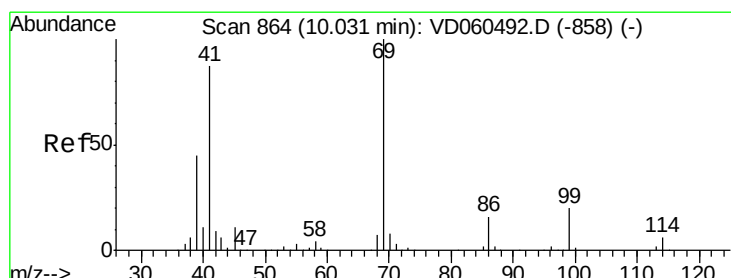
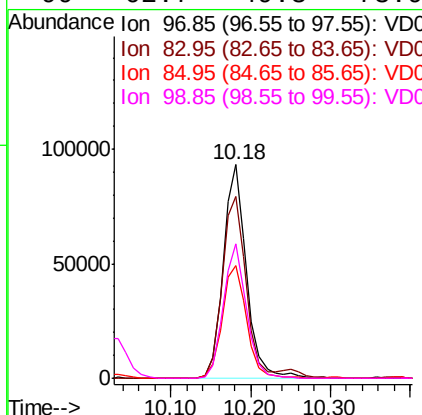
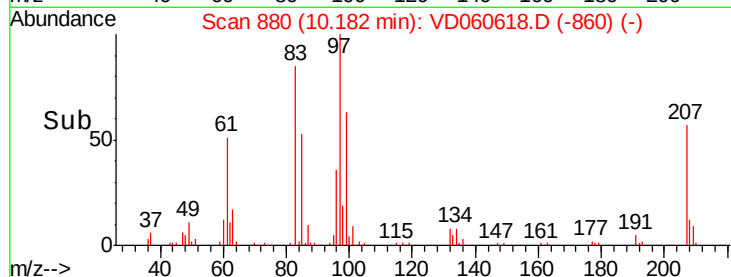
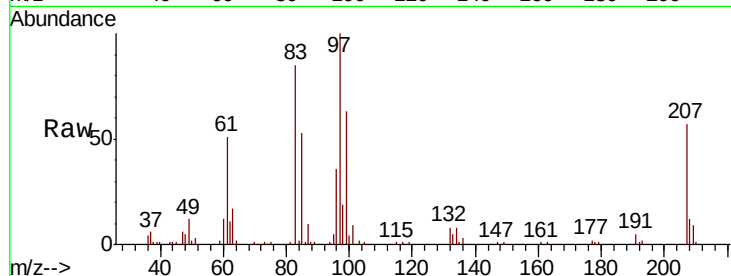
#55
 1,1,2-Trichloroethane
 Concen: 21.410 ug/l
 RT: 10.18 min Scan# 880
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		190104		
83	84.9	67.2	100.8		
85	52.9	44.5	66.7		
99	62.7	49.3	73.9		

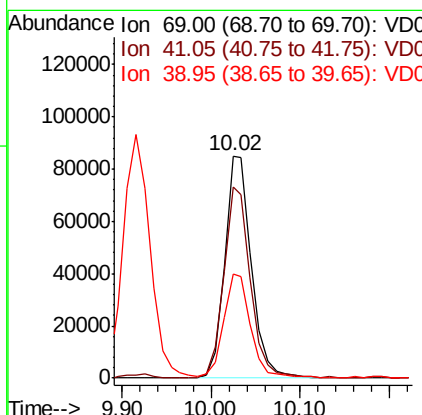
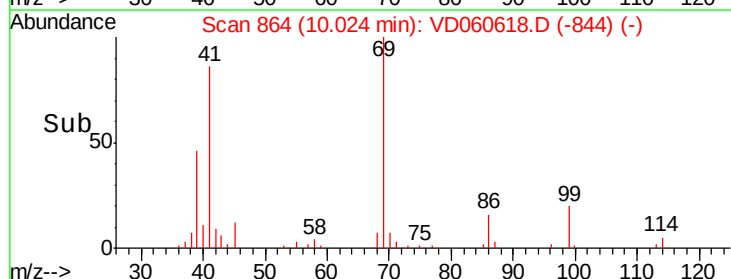
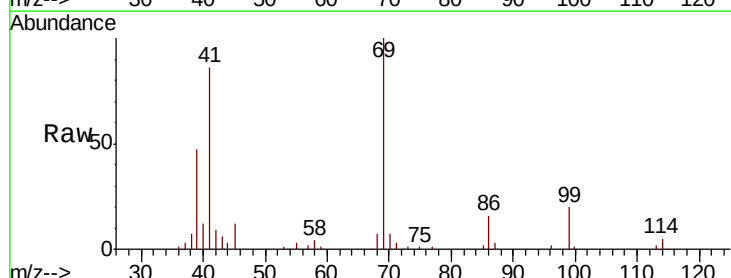
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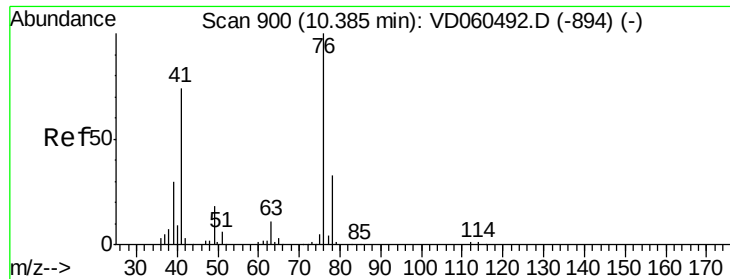
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#56
 Ethyl methacrylate
 Concen: 22.231 ug/l
 RT: 10.02 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		178643		
41	86.0	69.8	104.8		
39	46.9	37.5	56.3		





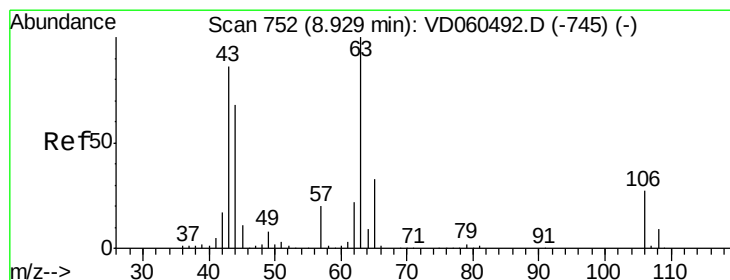
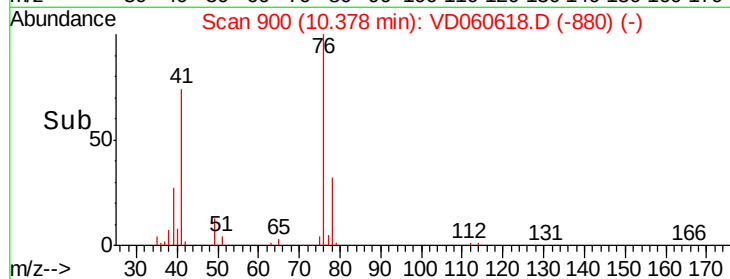
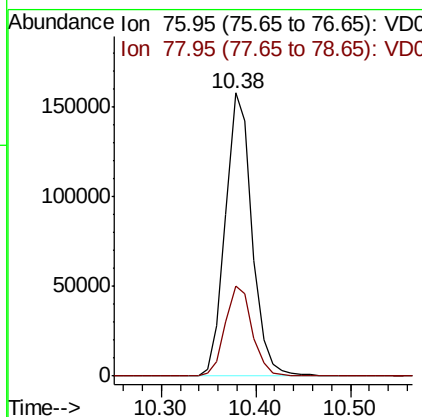
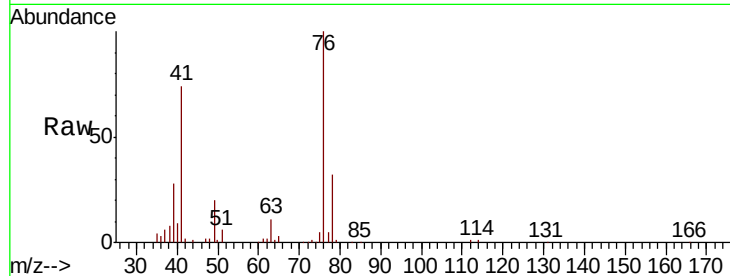
#57
 1,3-Dichloropropane
 Concen: 22.355 ug/l
 RT: 10.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion: 76 Resp: 306840
 Ion Ratio Lower Upper
 76 100
 78 31.9 26.1 39.1

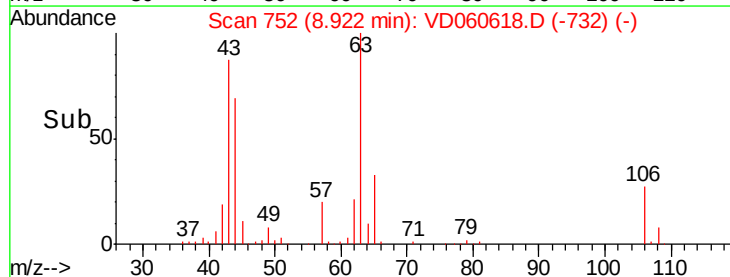
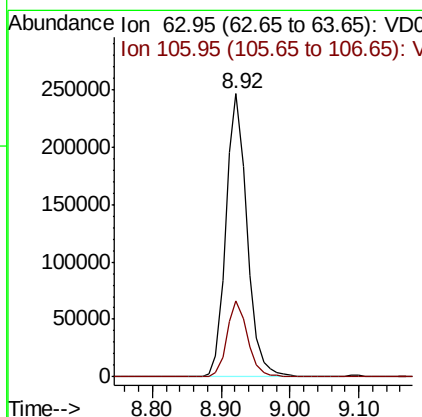
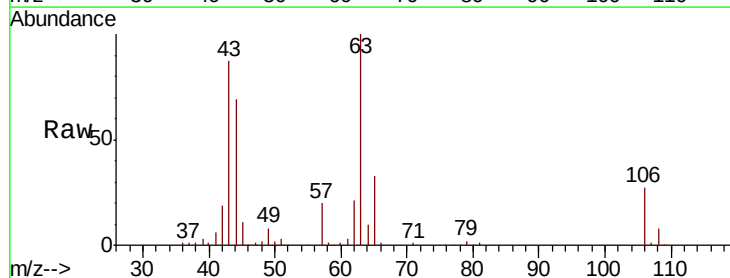
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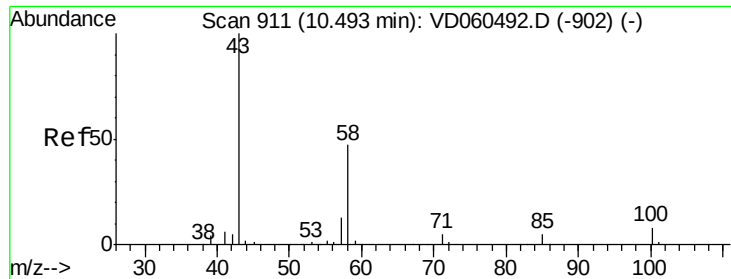
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#58
 2-Chloroethyl Vinyl ether
 Concen: 108.324 ug/l
 RT: 8.92 min Scan# 752
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion: 63 Resp: 520839
 Ion Ratio Lower Upper
 63 100
 106 27.0 21.6 32.4





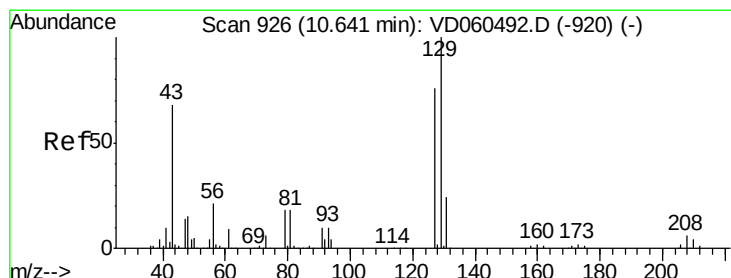
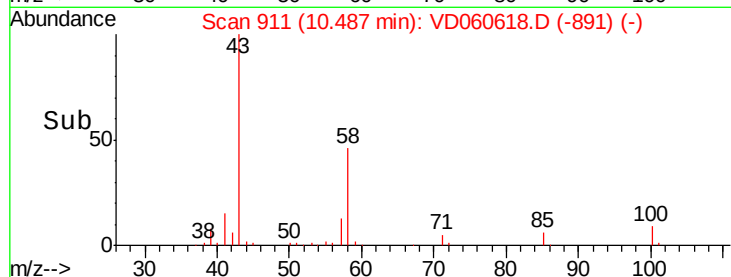
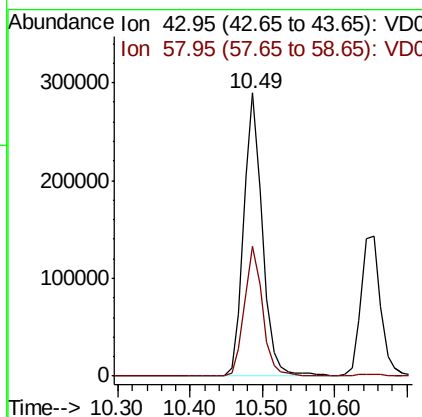
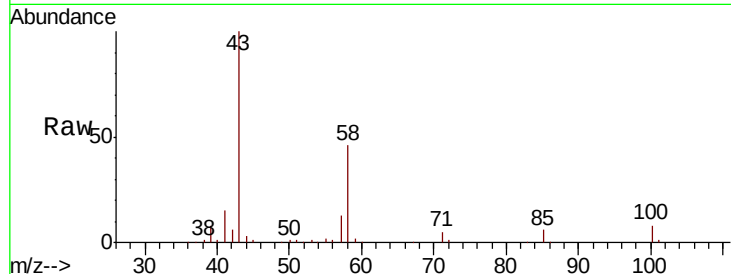
#59
2-Hexanone
Concen: 113.141 ug/l
RT: 10.49 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion: 43 Resp: 525667
Ion Ratio Lower Upper
43 100
58 45.8 23.4 70.2

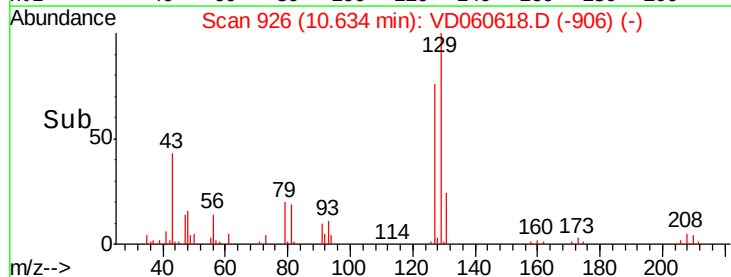
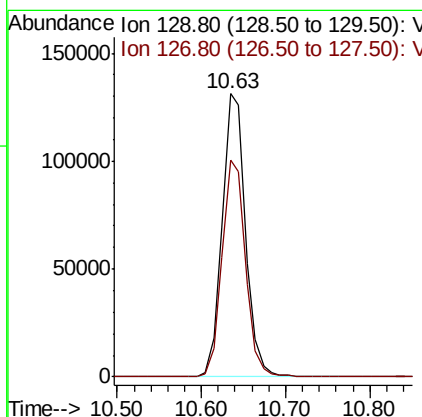
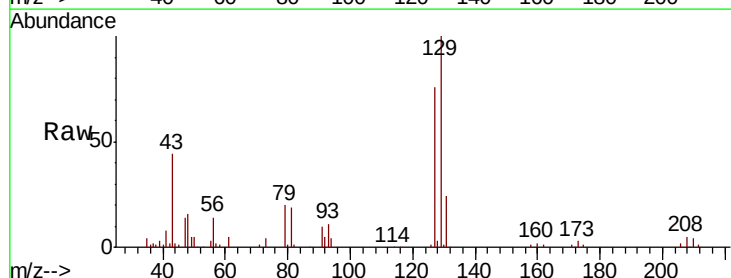
Manual Integrations
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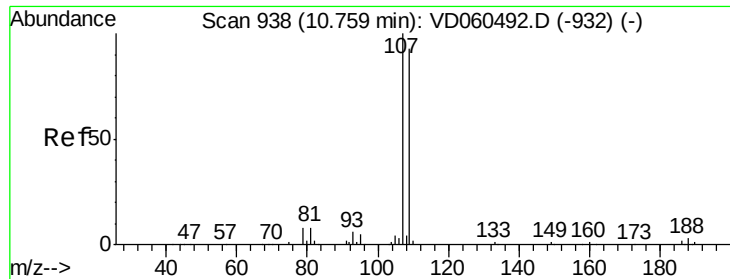
MMDadoda
12/19/2018 2:12:04 PM



#60
Dibromochloromethane
Concen: 22.657 ug/l
RT: 10.63 min Scan# 926
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion:129 Resp: 251523
Ion Ratio Lower Upper
129 100
127 76.5 38.1 114.3





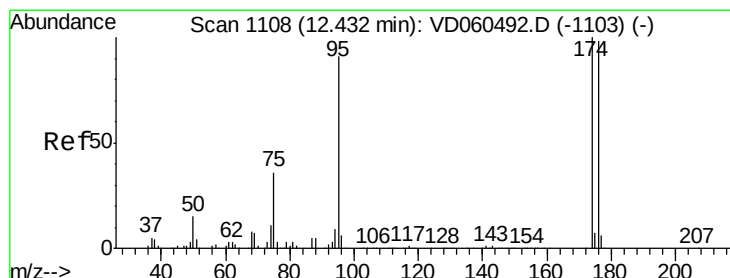
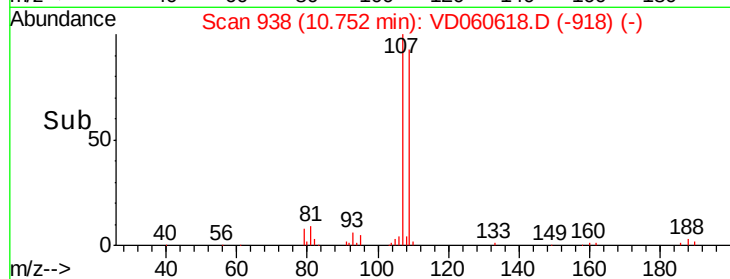
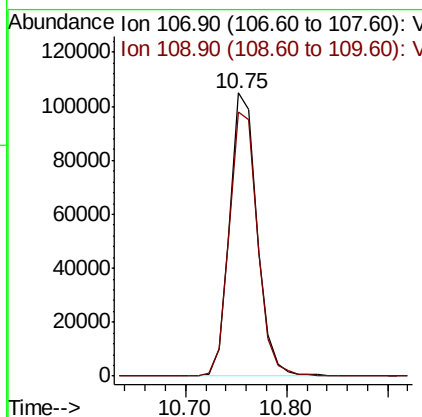
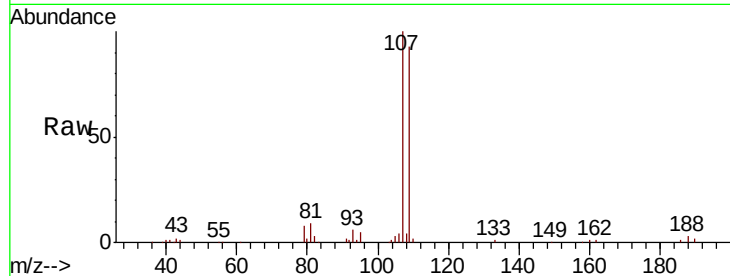
#61
 1,2-Dibromoethane
 Concen: 21.841 ug/l
 RT: 10.75 min Scan# 938
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	74.7	112.1

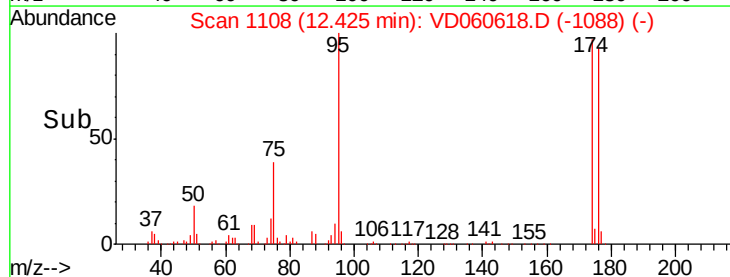
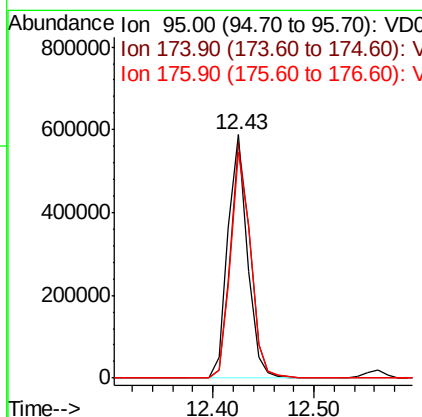
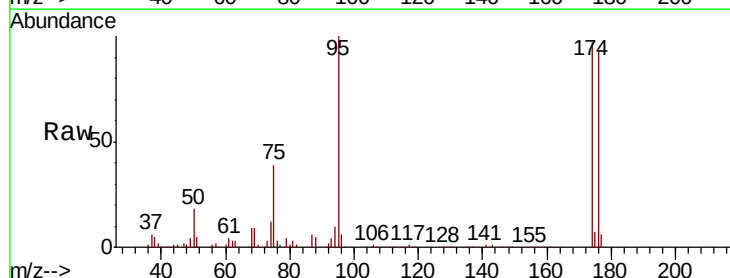
Manual Integrations
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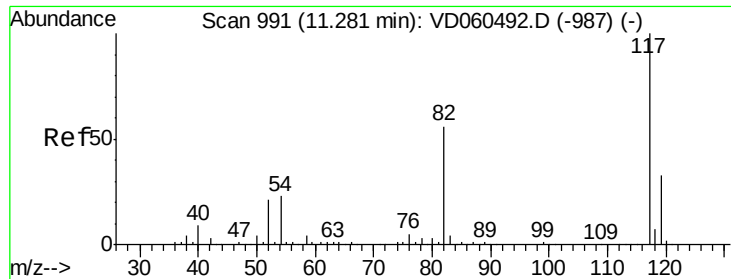
MMDadoda
 12/19/2018 2:12:04 PM



#62
 4-Bromofluorobenzene
 Concen: 21.841 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.7	0.0	219.4
176	92.8	0.0	214.6





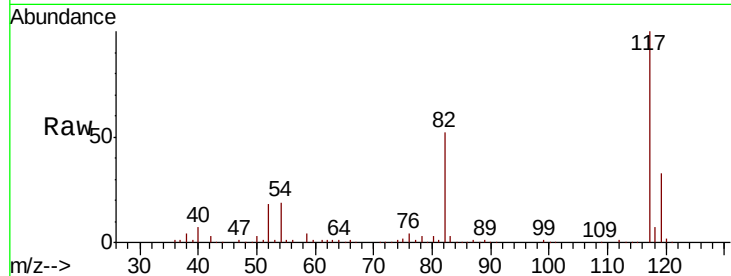
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

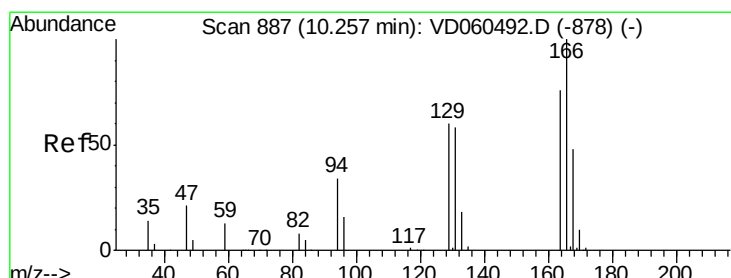
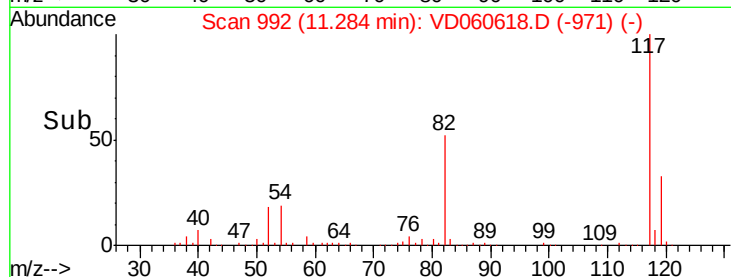
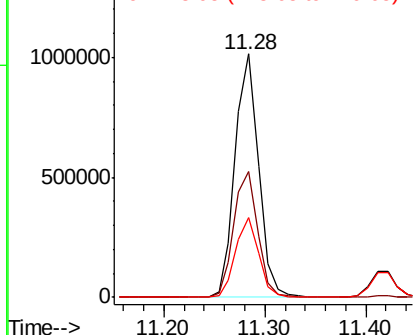
Tot Ion:117 Resp: 1644726
Ion Ratio Lower Upper
117 100
82 51.5 45.2 67.8
119 32.9 26.1 39.1

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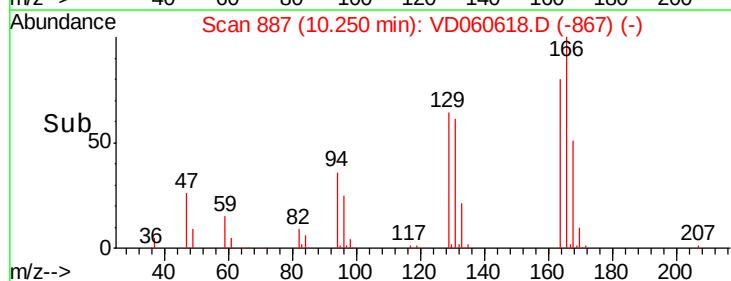
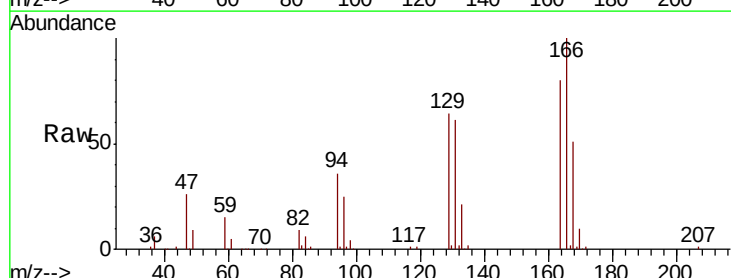
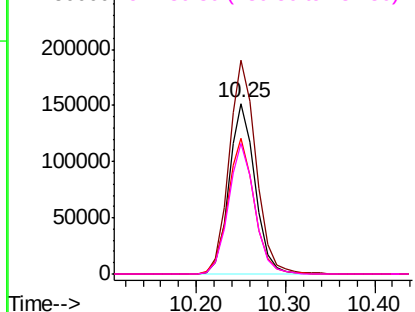
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

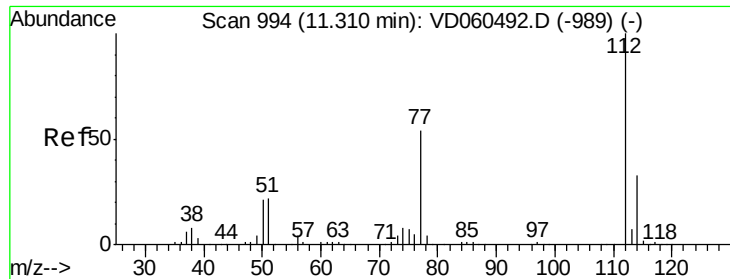


#64
Tetrachloroethene
Concen: 21.287 ug/l
RT: 10.25 min Scan# 887
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion:164 Resp: 310012
Ion Ratio Lower Upper
164 100
166 125.3 105.0 157.6
129 79.7 63.0 94.4
131 76.6 60.6 90.8

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





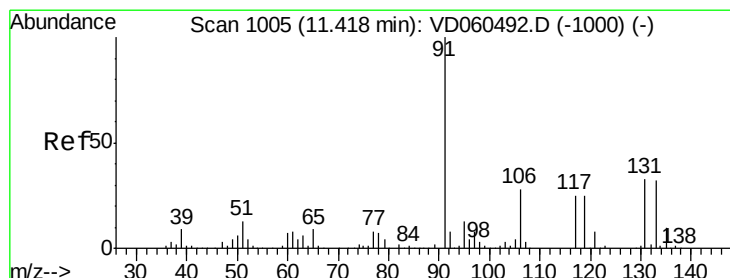
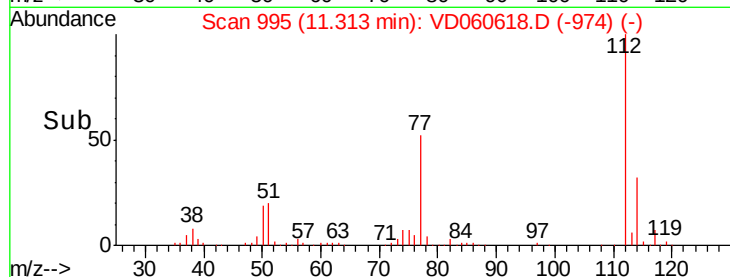
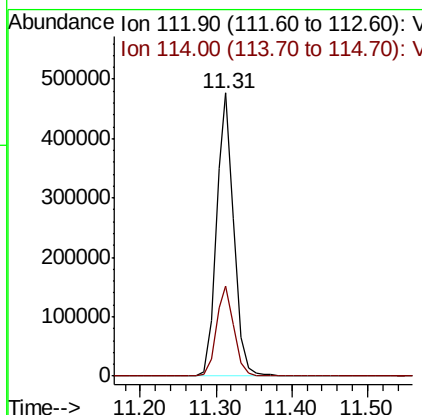
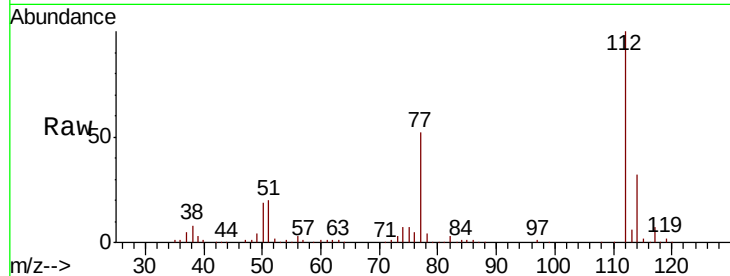
#65
Chlorobenzene
Concen: 21.908 ug/l
RT: 11.31 min Scan# 995
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion:112 Resp: 762290
Ion Ratio Lower Upper
112 100
114 31.8 26.2 39.4

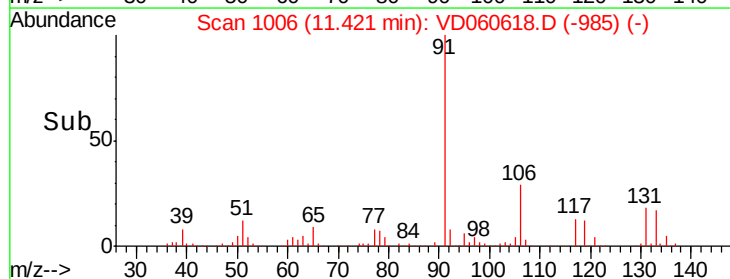
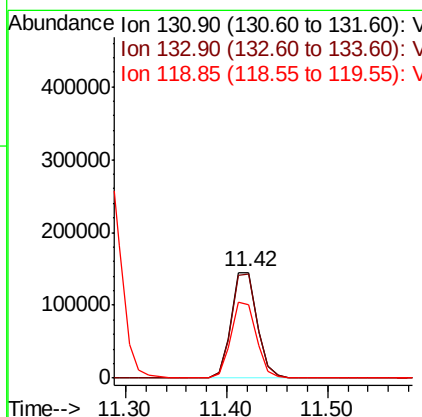
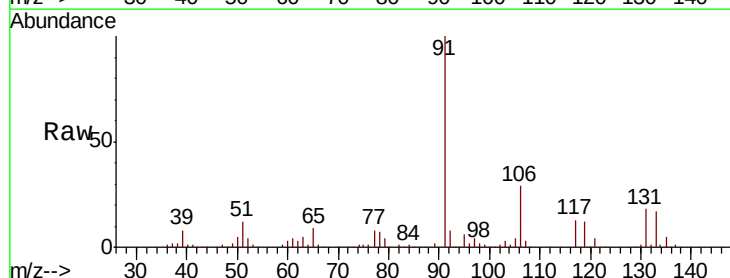
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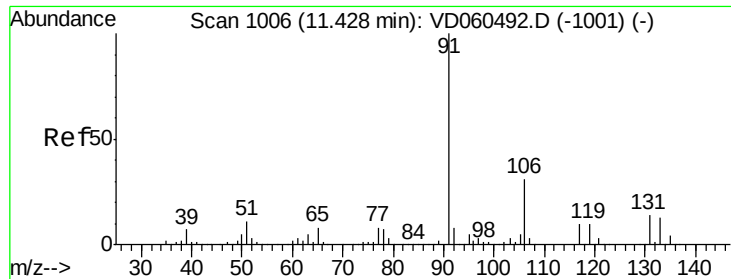
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 23.083 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion:131 Resp: 258871
Ion Ratio Lower Upper
131 100
133 98.5 49.1 147.3
119 69.4 37.5 112.3





#67

Ethyl Benzene

Concen: 22.946 ug/l

RT: 11.42 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 91 Resp: 1361850

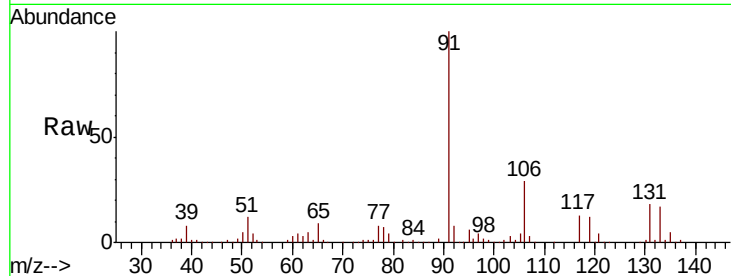
Ion Ratio Lower Upper

91 100

106 28.7 24.6 37.0

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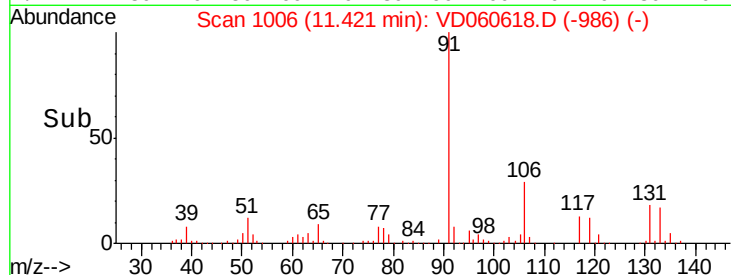


Abundance Ion 91.00 (90.70 to 91.70): V

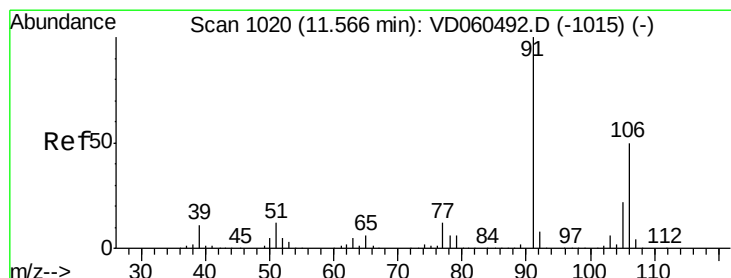
Ion 106.05 (105.75 to 106.75): V

11.42

11.50



Time-->



#68

m/p-Xylenes

Concen: 44.634 ug/l

RT: 11.56 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VD060618.D

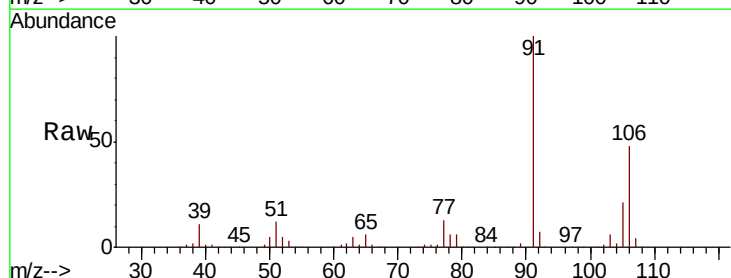
Acq: 18 Dec 2018 13:49

Tgt Ion: 106 Resp: 980033

Ion Ratio Lower Upper

106 100

91 206.3 160.5 240.7

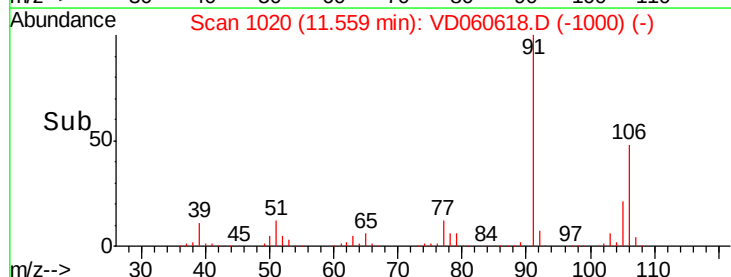


Abundance Ion 106.05 (105.75 to 106.75): V

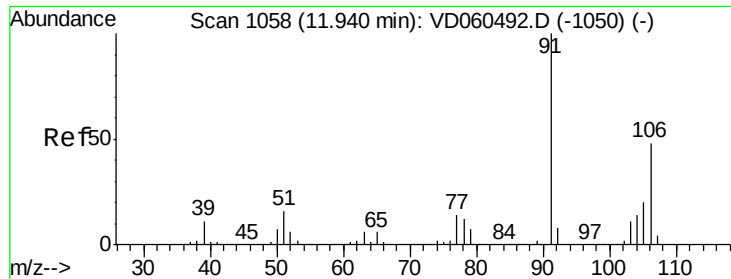
Ion 91.00 (90.70 to 91.70): V

11.56

11.70



Time-->



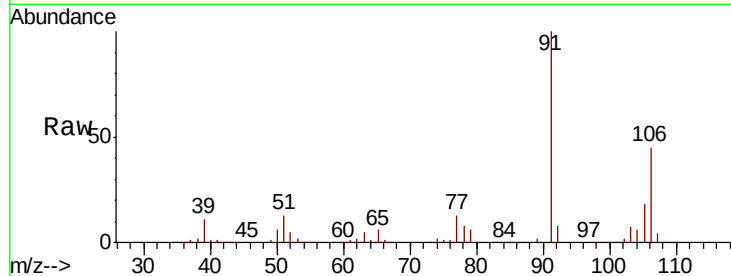
#69
o-Xylene
Concen: 21.826 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

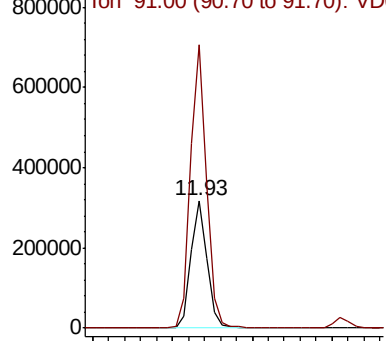
Tot Ion:106 Resp: 456711
Ion Ratio Lower Upper
106 100
91 222.4 103.4 310.1

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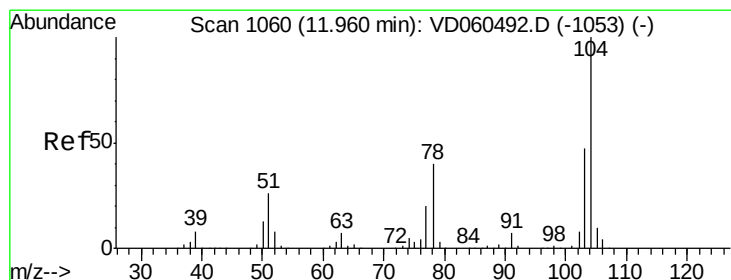
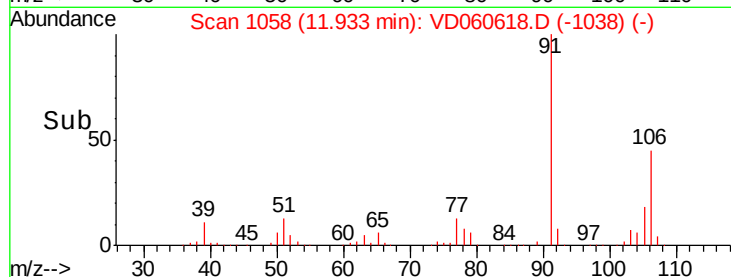
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Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

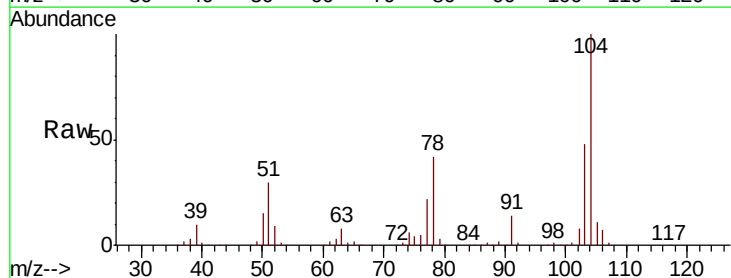


Time--> 11.80 11.90 12.00 12.10

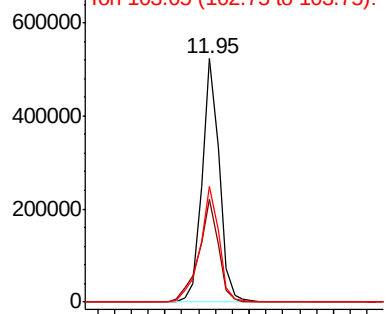


#70
Styrene
Concen: 22.085 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

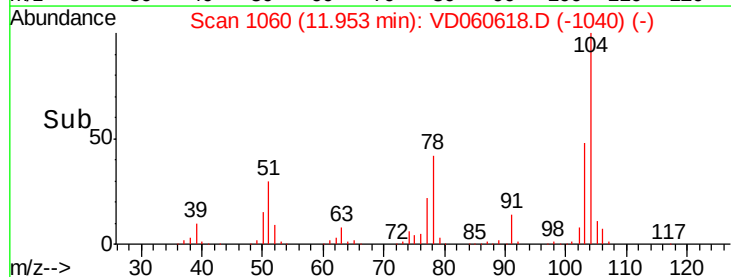
Tgt Ion:104 Resp: 741761
Ion Ratio Lower Upper
104 100
78 42.3 32.1 48.1
103 47.6 37.2 55.8

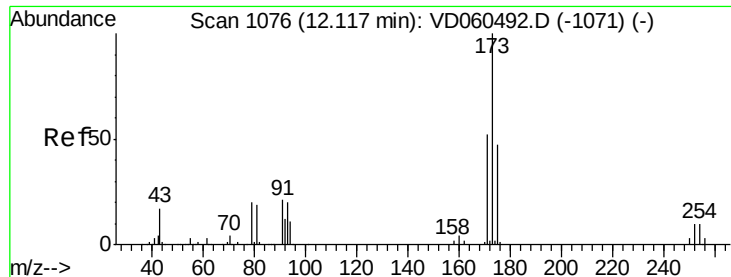


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V



Time--> 11.90 12.00 12.10





#71

Bromoform

Concen: 21.374 ug/l

RT: 12.11 min Scan# 1076

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

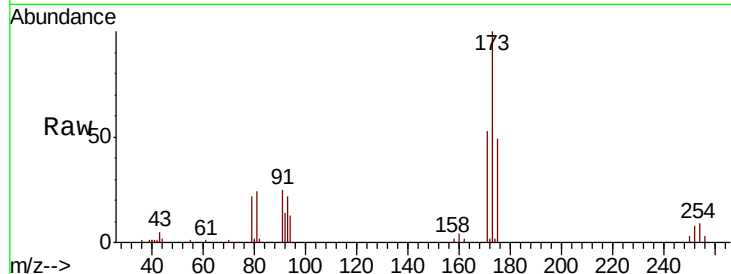
ClientSampleId :

VD1218SBS01

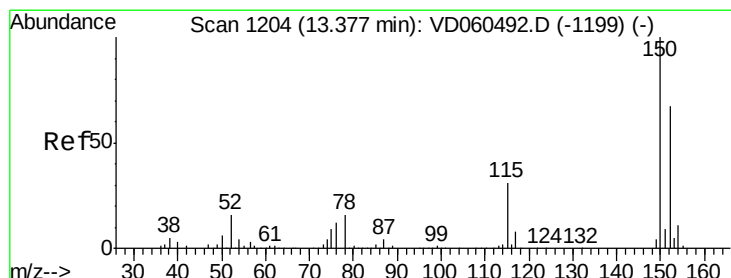
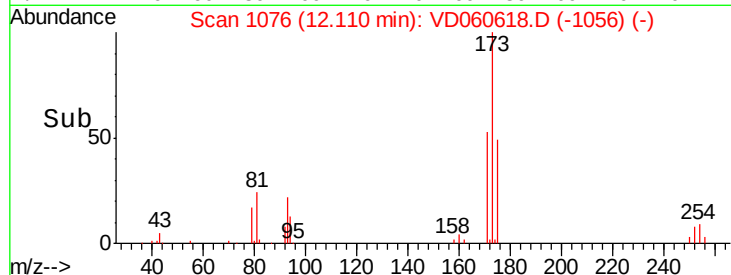
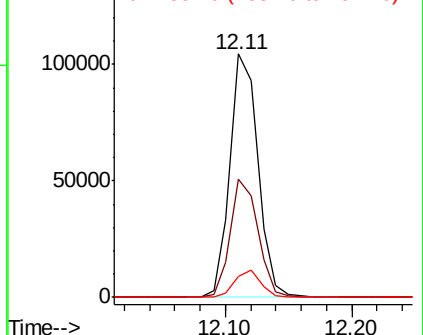
Tot Ion:	173	Resp:	159925
Ion Ratio	Lower	Upper	
173	100		
175	48.7	23.5	70.6
254	8.8	7.8	11.8

Manual Integrations
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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

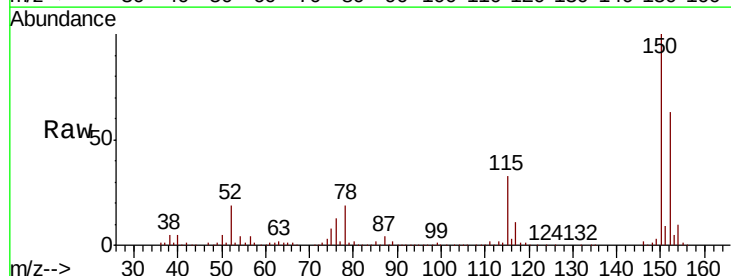
RT: 13.37 min Scan# 1204

Delta R.T. -0.01 min

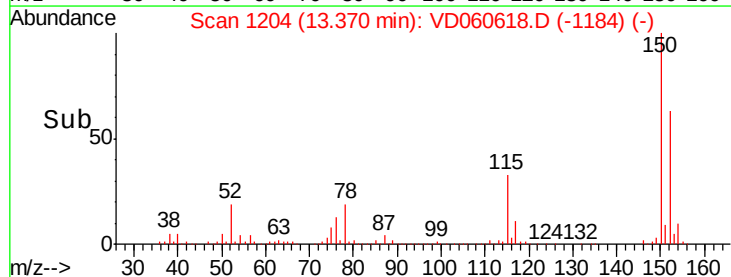
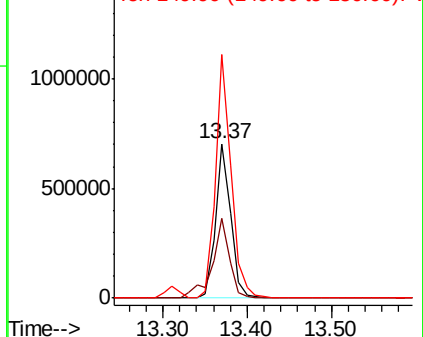
Lab File: VD060618.D

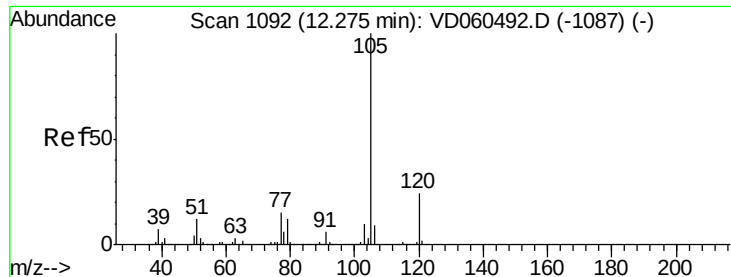
Acq: 18 Dec 2018 13:49

Tgt Ion:	152	Resp:	872078
Ion Ratio	Lower	Upper	
152	100		
115	52.1	24.6	74.0
150	157.8	0.0	309.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.095 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion:105 Resp: 1301821

Ion Ratio Lower Upper

105 100

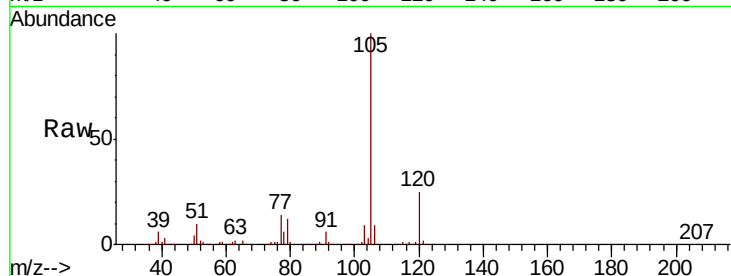
120 25.1 11.9 35.9

Manual Integrations

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

1000000

800000

600000

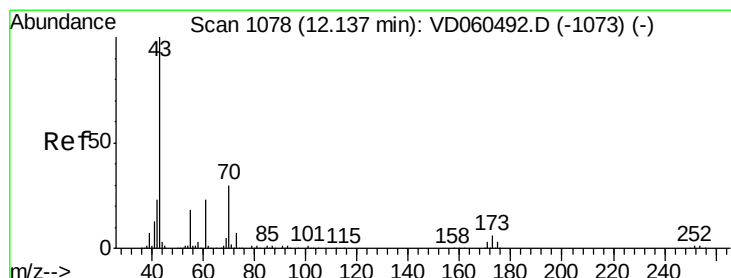
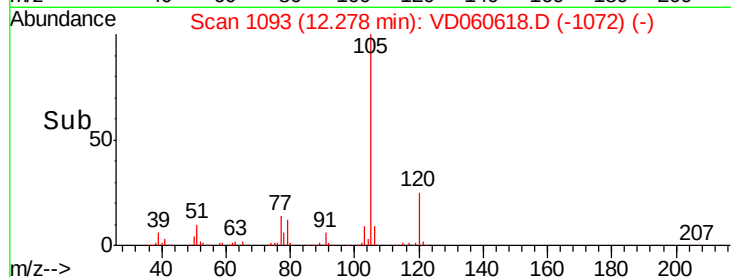
400000

200000

0

12.20 12.30 12.40

Time-->



#74

N-ethyl acetate

Concen: 20.498 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Tgt Ion: 43 Resp: 305719

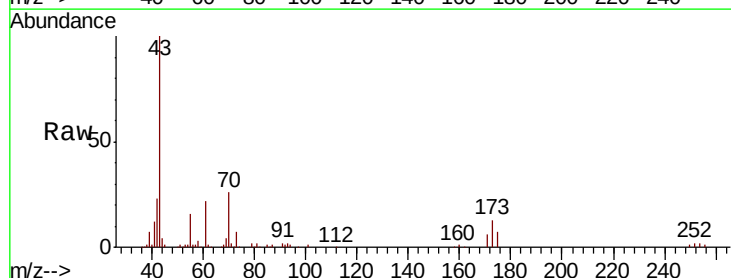
Ion Ratio Lower Upper

43 100

70 26.0 23.8 35.8

55 16.5 14.2 21.2

61 21.9 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

300000

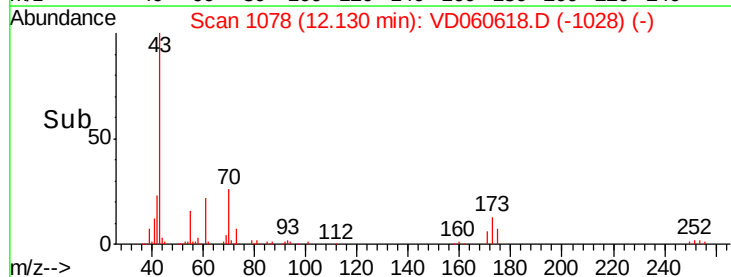
200000

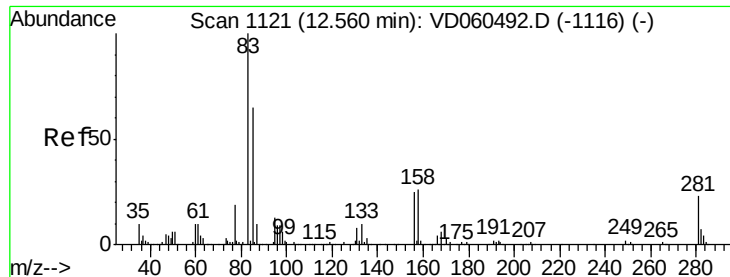
100000

0

12.10 12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.417 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 83 Resp: 211594

Ion Ratio Lower Upper

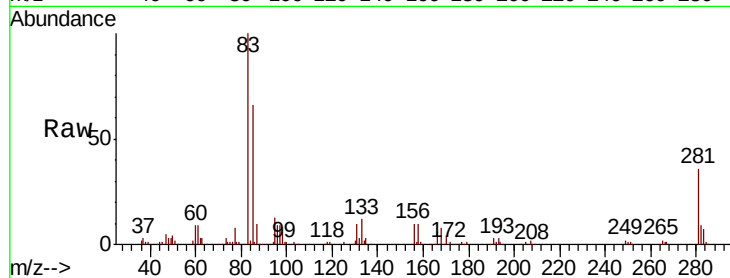
83 100

131 9.9 3.8 11.4

85 66.3 32.3 96.9

Manual Integrations
APPROVED

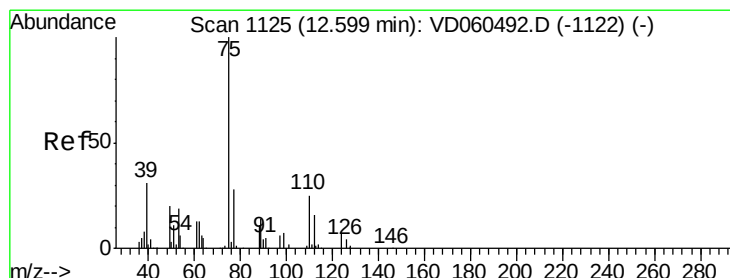
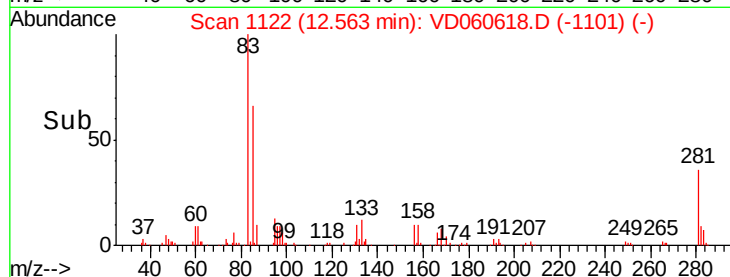
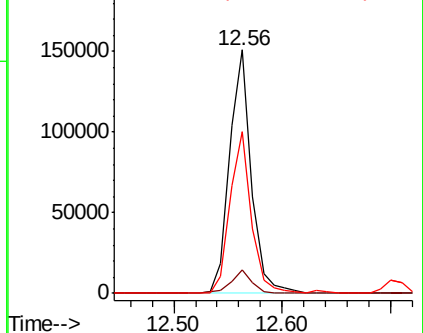
MMDadoda
12/19/2018 2:12:04 PM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 21.004 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VD060618.D

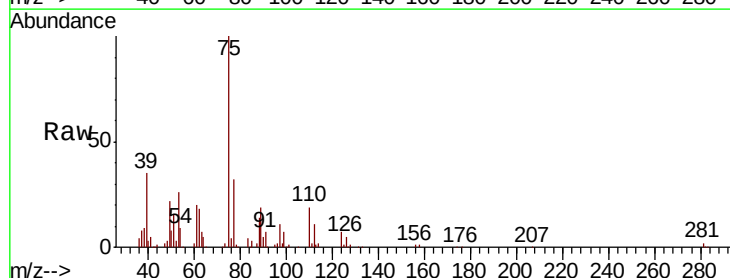
Acq: 18 Dec 2018 13:49

Tgt Ion: 75 Resp: 207542

Ion Ratio Lower Upper

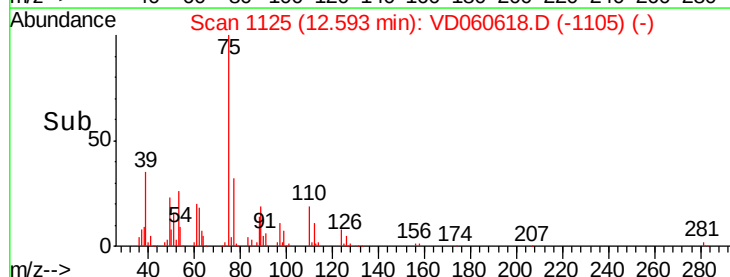
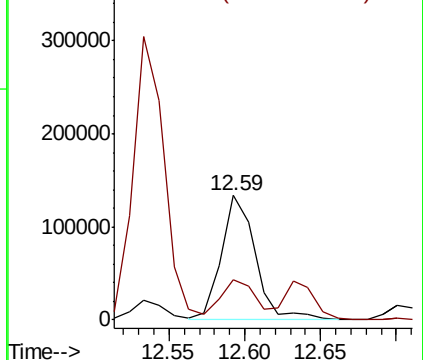
75 100

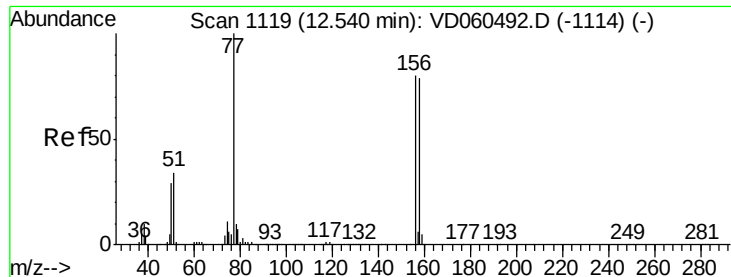
77 32.2 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





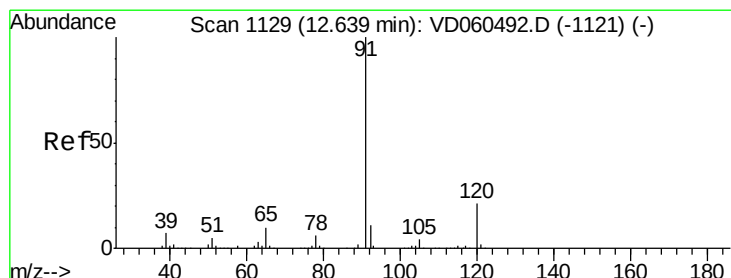
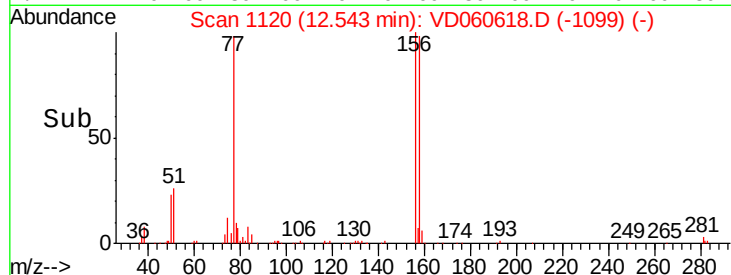
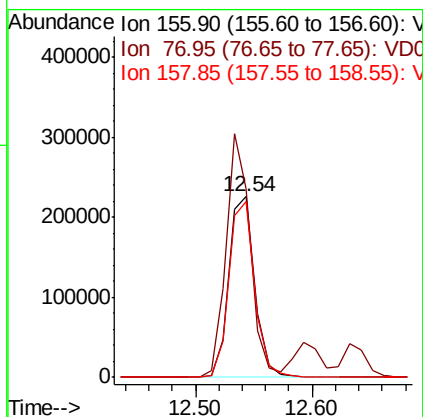
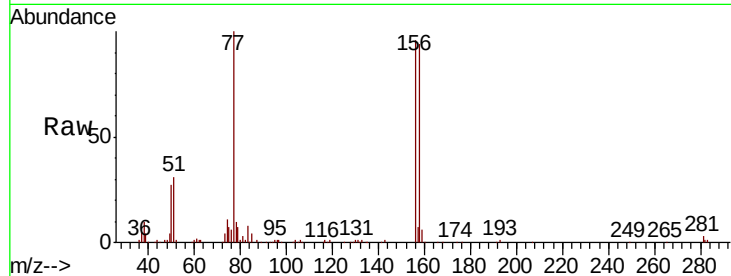
#77
Bromobenzene
Concen: 21.423 ug/l
RT: 12.54 min Scan# 1120
Delta R.T. 0.00 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	104.4	62.5	187.6
158	97.7	49.4	148.2

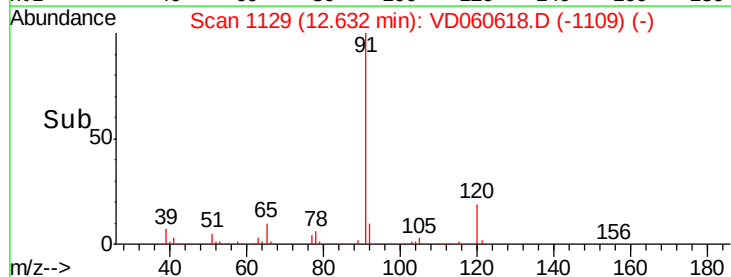
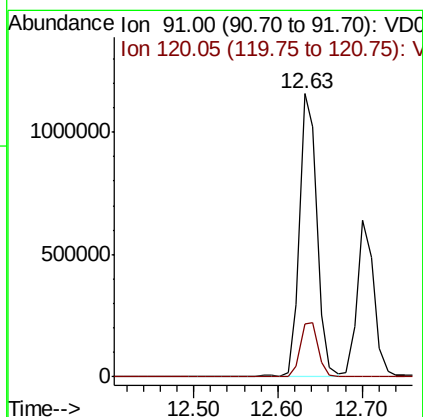
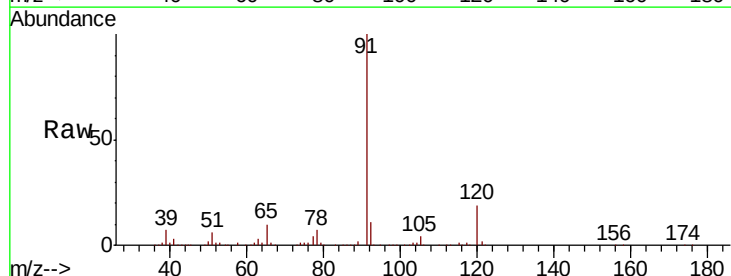
Manual Integrations
APPROVED

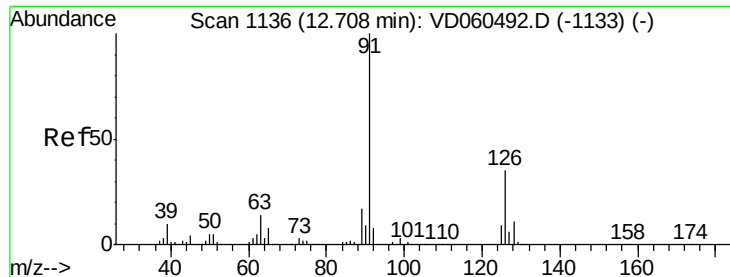
MMDadoda
12/19/2018 2:12:04 PM



#78
n-propylbenzene
Concen: 21.323 ug/l
RT: 12.63 min Scan# 1129
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
91	100		
120	18.9	10.4	31.1





#79

2-Chlorotoluene

Concen: 20.898 ug/l

RT: 12.70 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion: 91 Resp: 884601

Ion Ratio Lower Upper

91 100

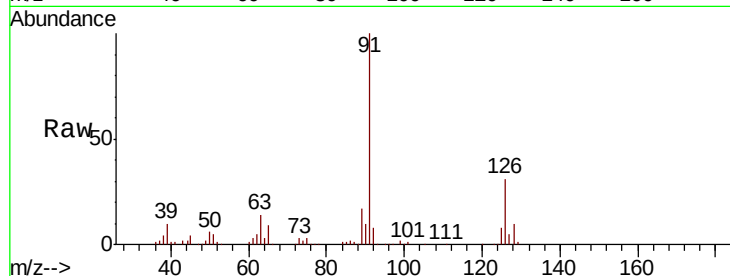
126 31.5 17.3 52.0

Manual Integrations

APPROVED

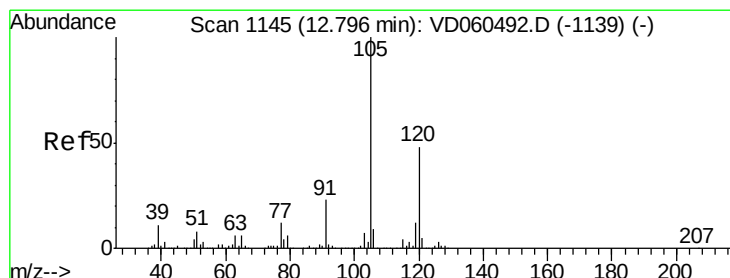
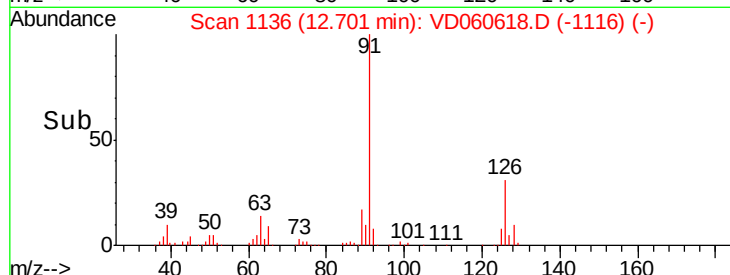
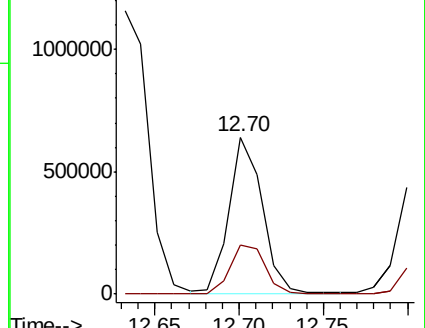
MMDadoda

12/19/2018 2:12:04 PM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 21.395 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VD060618.D

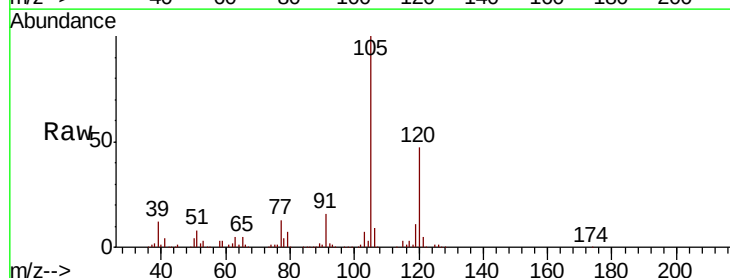
Acq: 18 Dec 2018 13:49

Tgt Ion:105 Resp: 1008865

Ion Ratio Lower Upper

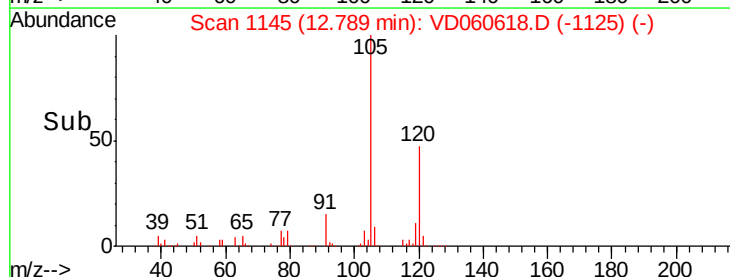
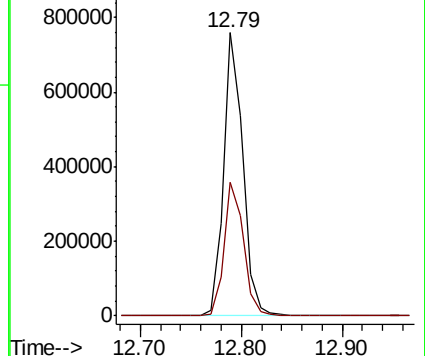
105 100

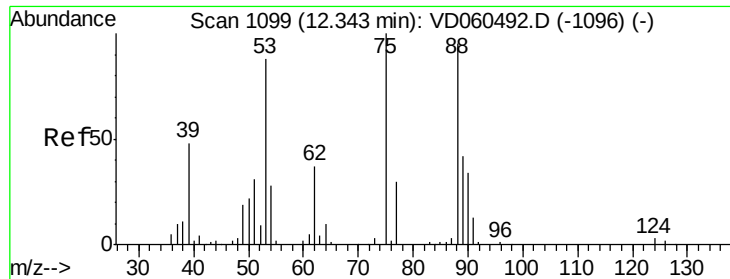
120 47.2 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





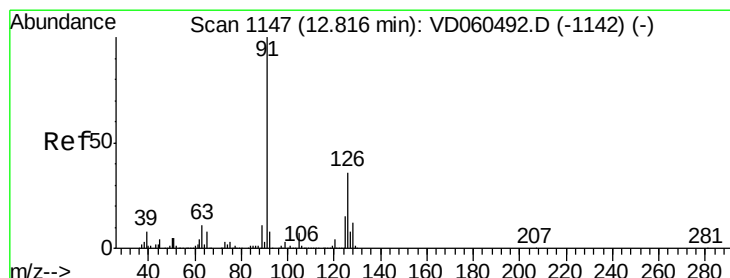
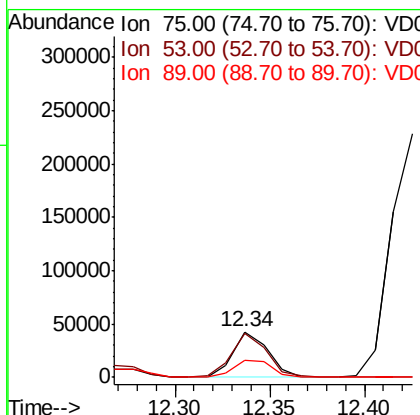
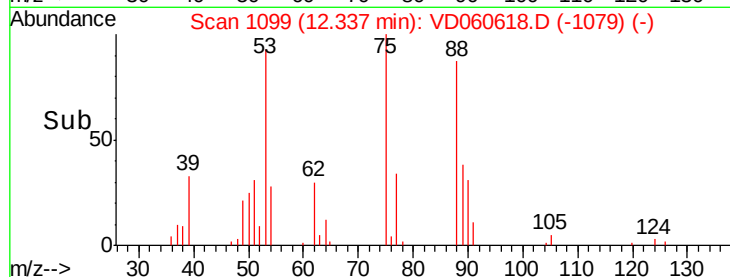
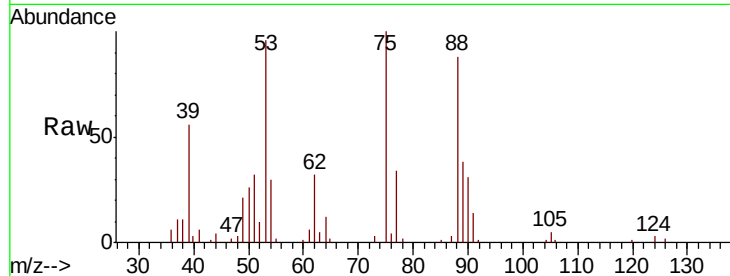
#81
trans-1,4-Dichloro-2-butene
Concen: 20.087 ug/l
RT: 12.34 min Scan# 1099
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	96.1	70.5	105.7
89	38.1	33.6	50.4

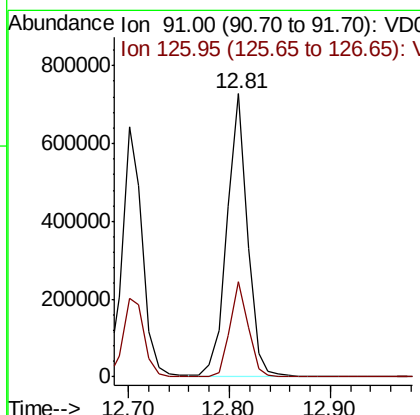
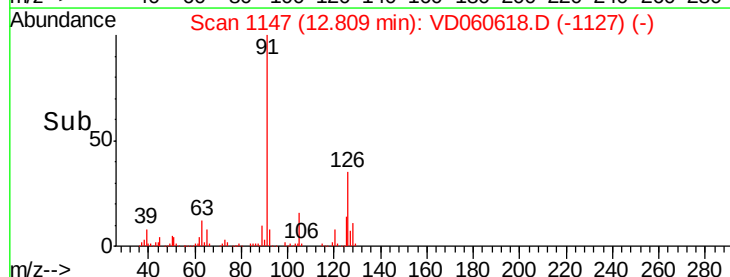
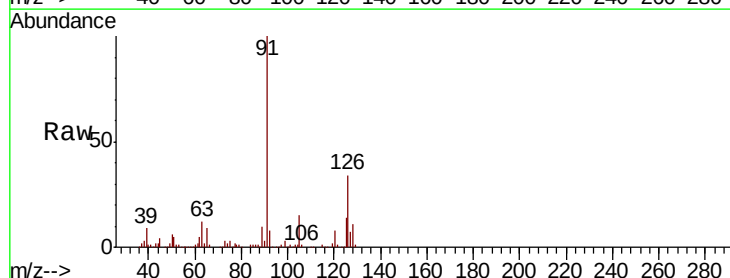
Manual Integrations
APPROVED

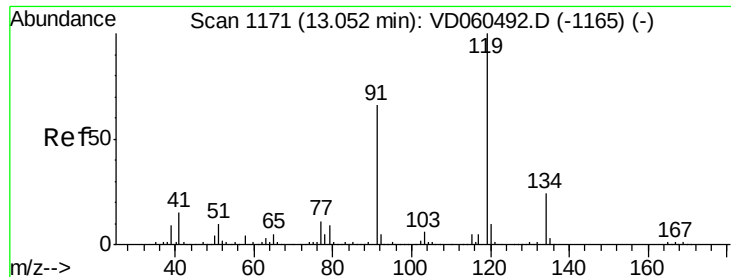
MMDadoda
12/19/2018 2:12:04 PM



#82
4-Chlorotoluene
Concen: 21.449 ug/l
RT: 12.81 min Scan# 1147
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.8	17.8	53.4





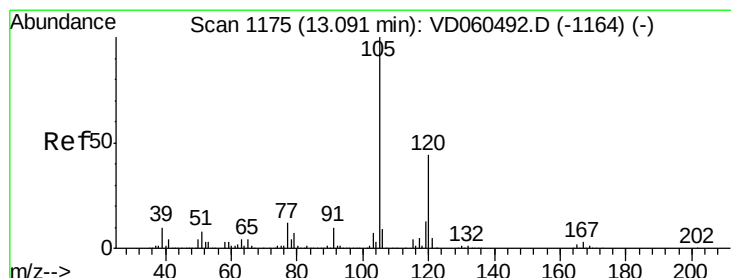
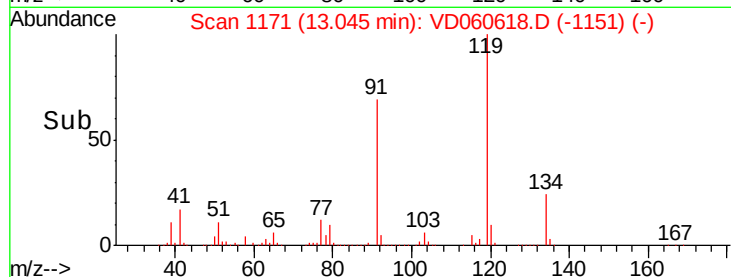
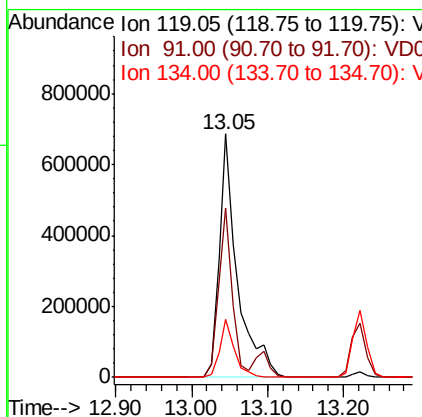
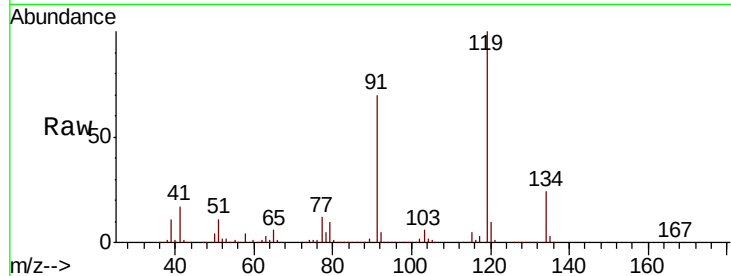
#83
 tert-Butylbenzene
 Concen: 21.917 ug/l
 RT: 13.05 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion:119 Resp: 1158782
 Ion Ratio Lower Upper
 119 100
 91 69.5 33.1 99.2
 134 23.9 12.0 36.0

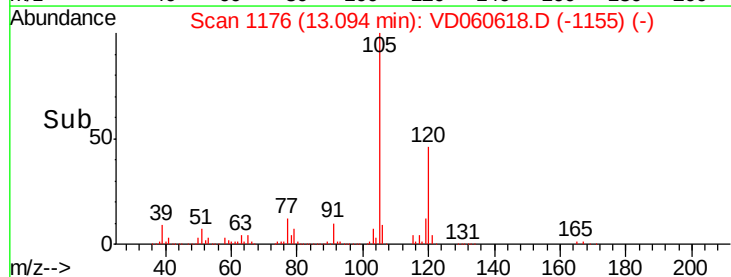
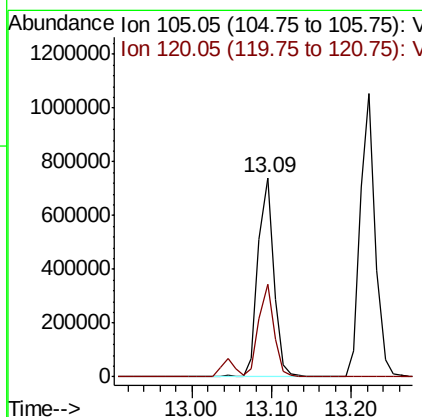
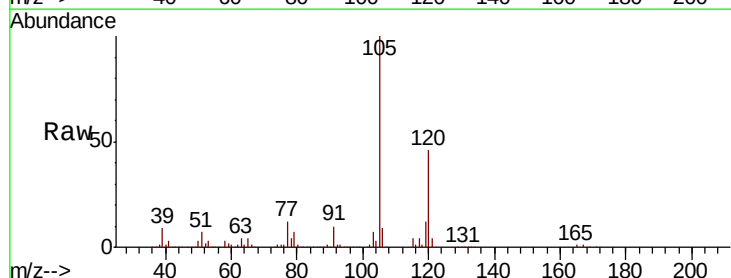
Manual Integrations
 APPROVED

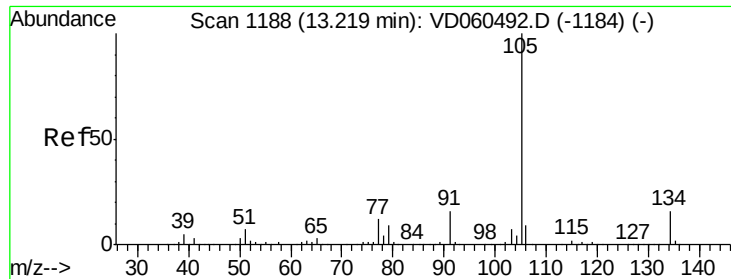
MMDadoda
 12/19/2018 2:12:04 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.437 ug/l
 RT: 13.09 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion:105 Resp: 997856
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.3 66.8





#85

sec-Butylbenzene

Concen: 20.968 ug/l

RT: 13.22 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

Instrument :

MSVOA_D

ClientSampleId :

VD1218SBS01

Tot Ion:105 Resp: 1381756

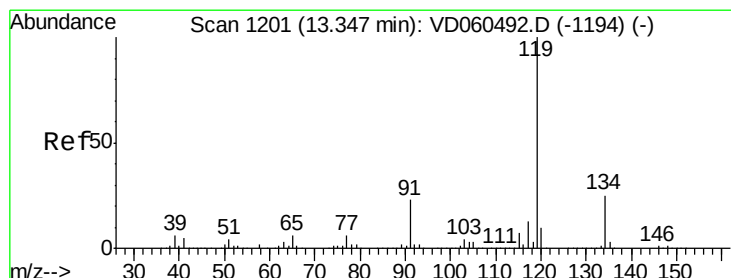
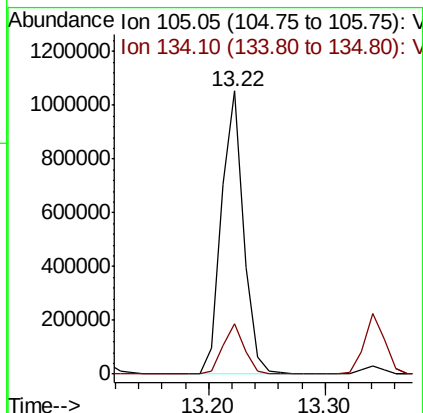
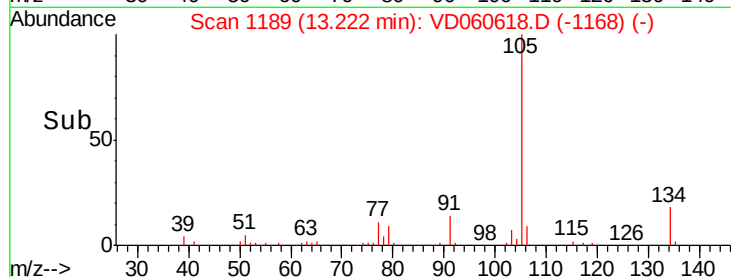
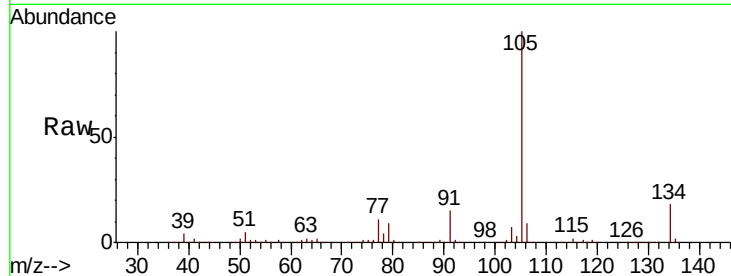
Ion Ratio Lower Upper

105 100

134 17.9 7.9 23.7

Manual Integrations
APPROVED

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12/19/2018 2:12:04 PM



#86

p-Isopropyltoluene

Concen: 21.337 ug/l

RT: 13.34 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VD060618.D

Acq: 18 Dec 2018 13:49

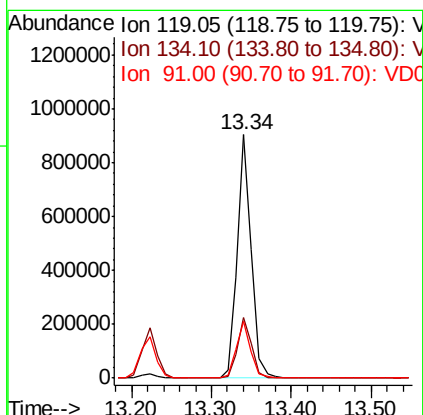
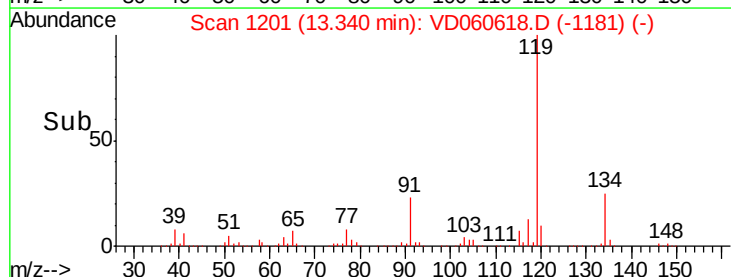
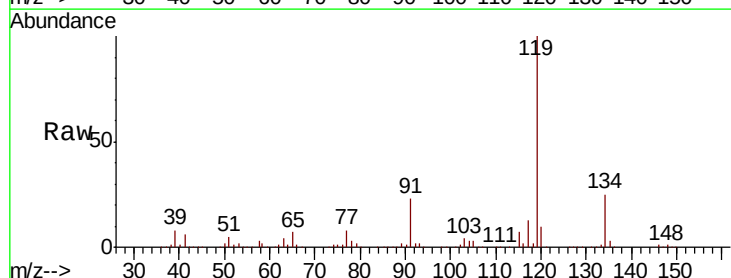
Tgt Ion:119 Resp: 1114600

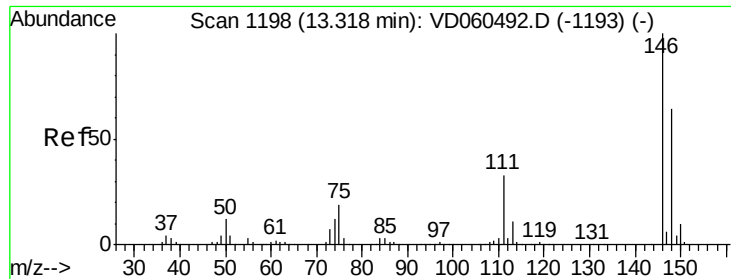
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 23.5 11.5 34.4





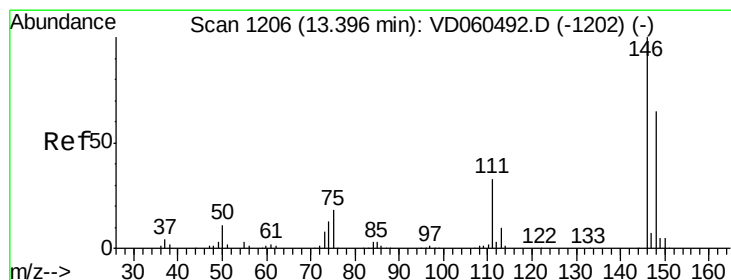
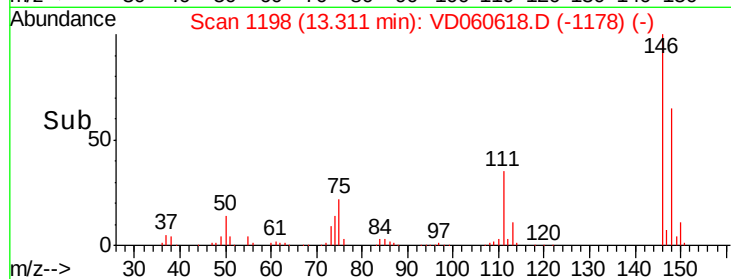
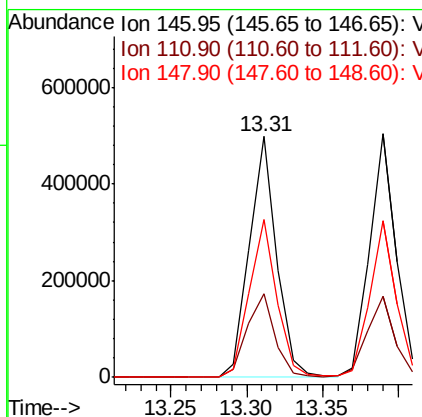
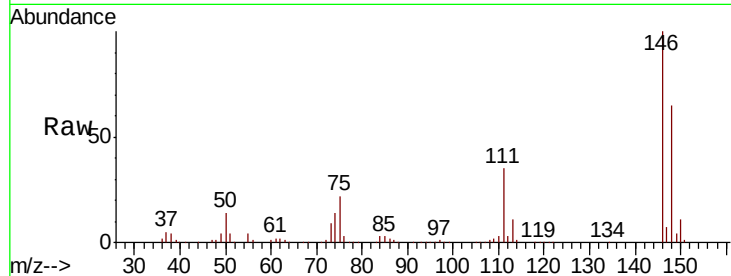
#87
 1,3-Dichlorobenzene
 Concen: 21.350 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.6	16.5	49.5
148	65.4	32.3	96.8

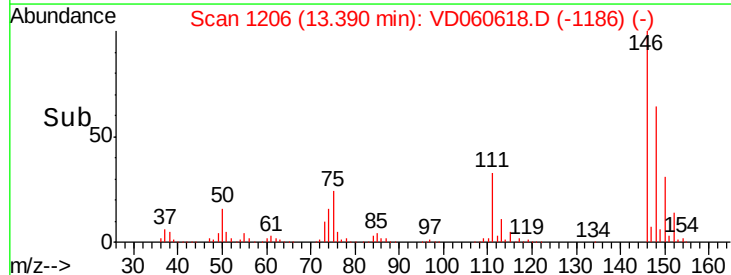
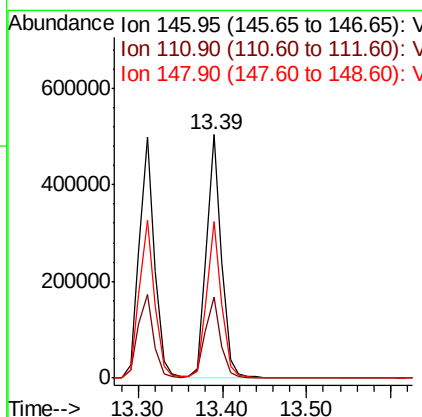
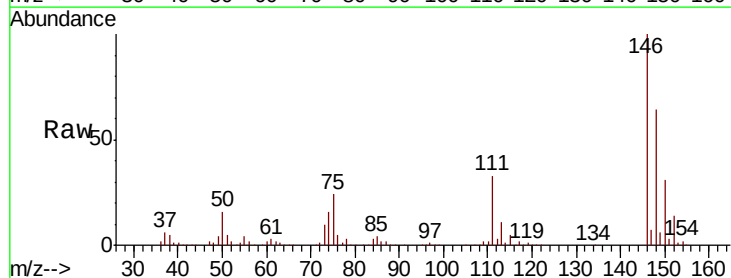
Manual Integrations
 APPROVED

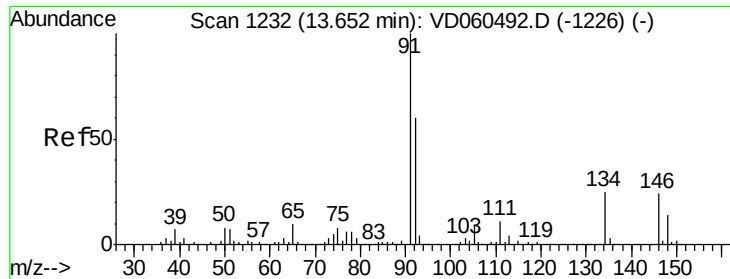
MMDadoda
 12/19/2018 2:12:04 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.585 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.4	16.4	49.1
148	64.1	32.6	98.0





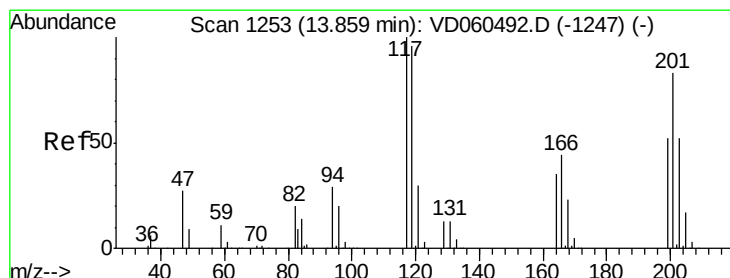
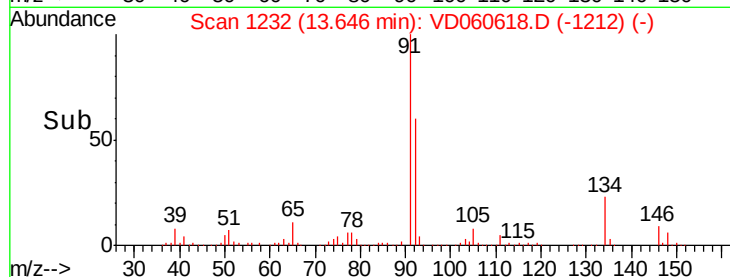
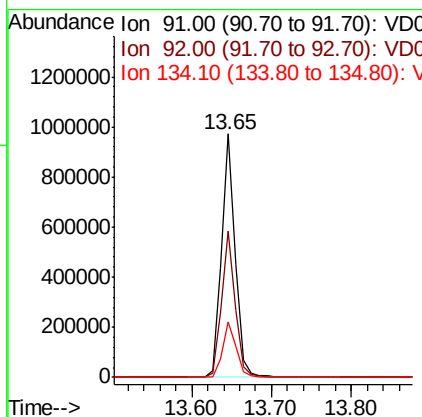
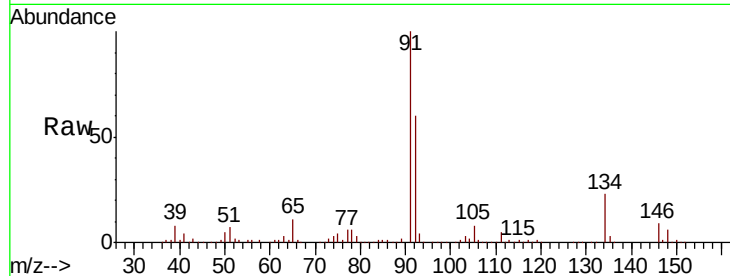
#89
n-Butylbenzene
Concen: 20.309 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion: 91 Resp: 1180094
Ion Ratio Lower Upper
91 100
92 60.3 30.0 90.1
134 23.0 12.5 37.5

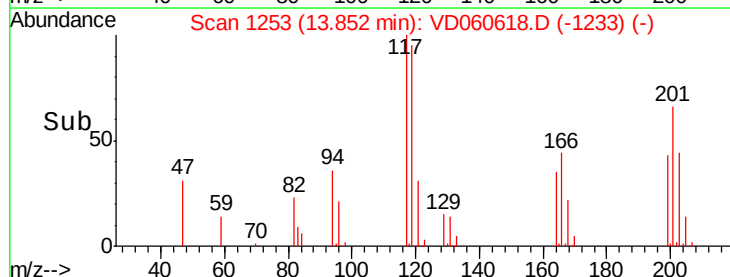
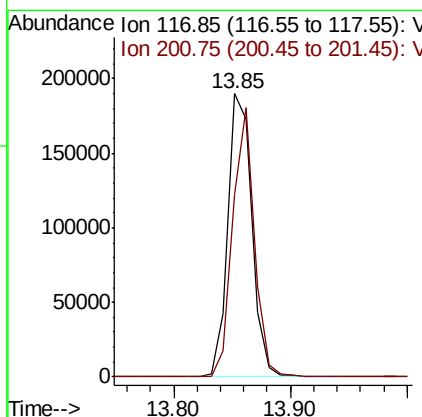
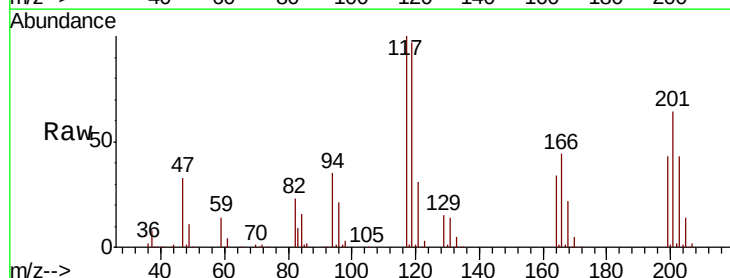
Manual Integrations
APPROVED

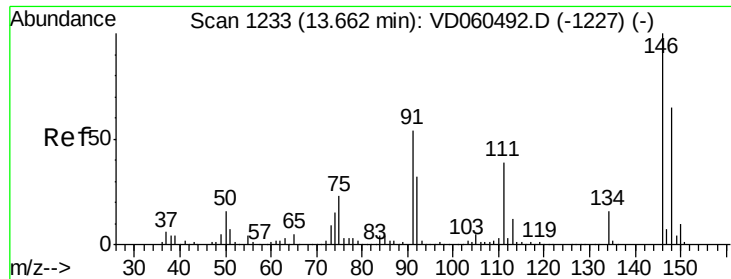
MMDadoda
12/19/2018 2:12:04 PM



#90
Hexachloroethane
Concen: 20.736 ug/l
RT: 13.85 min Scan# 1253
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion: 117 Resp: 271595
Ion Ratio Lower Upper
117 100
201 64.4 41.3 123.9





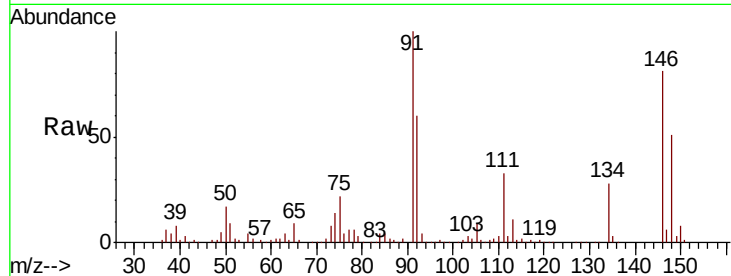
#91
 1,2-Dichlorobenzene
 Concen: 21.822 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	19.3	57.8
148	62.6	32.3	96.8

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 2:12:04 PM

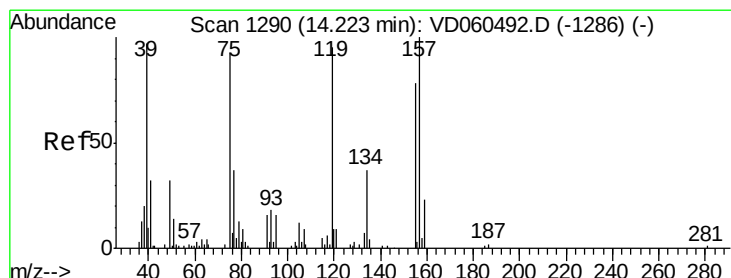
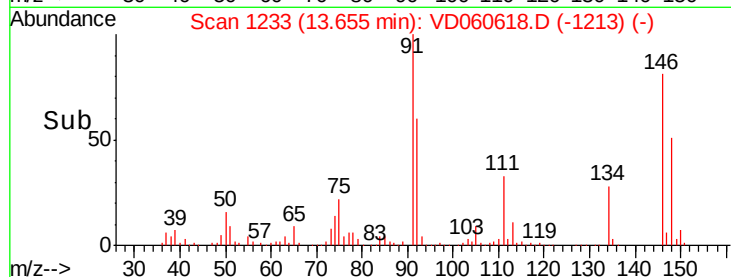
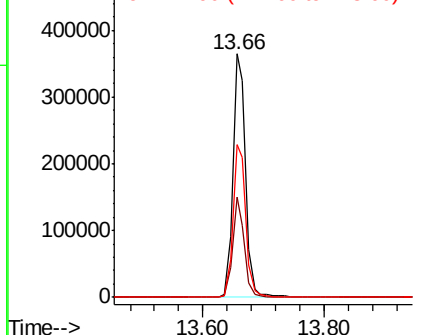


Abundance

Ion 145.95 (145.65 to 146.65): V

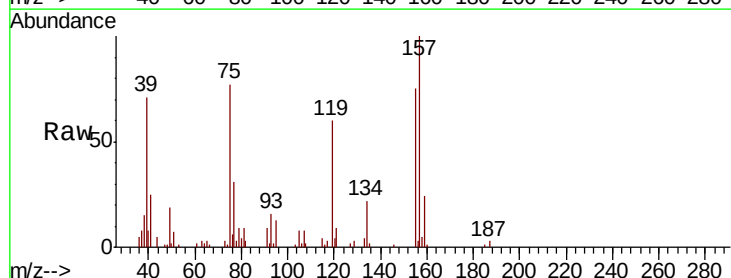
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.121 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.1	41.6	124.9
157	130.7	53.6	160.8

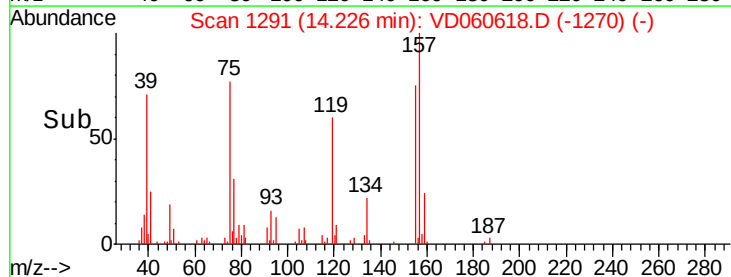
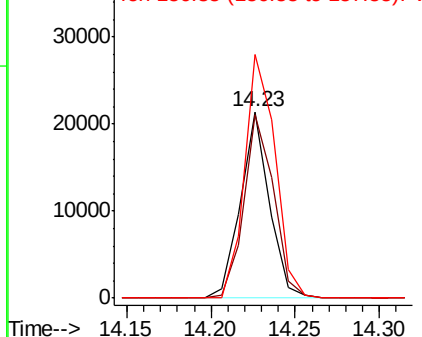


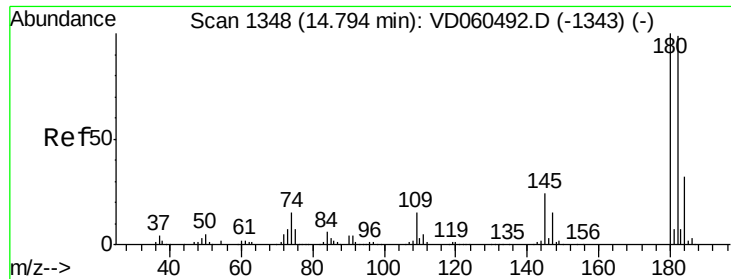
Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





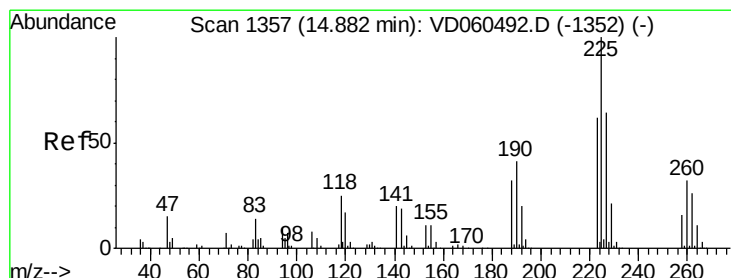
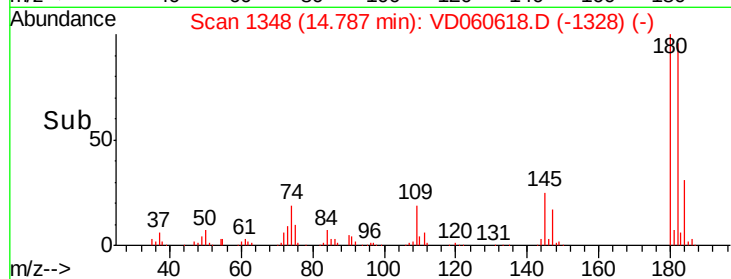
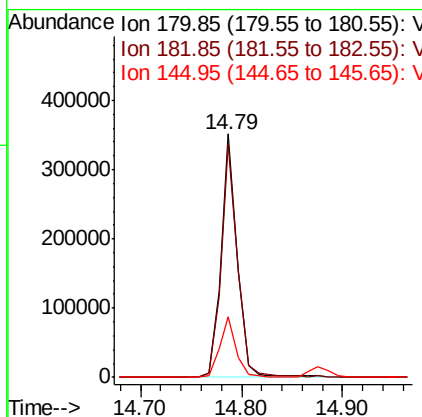
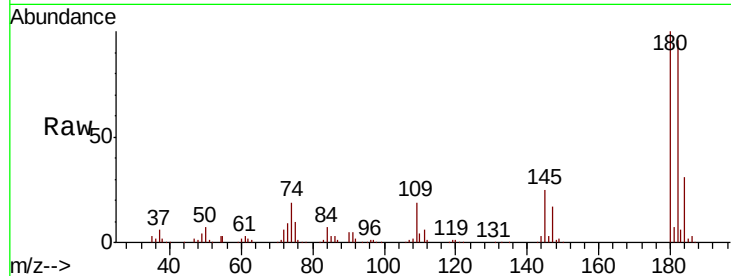
#93
 1,2,4-Trichlorobenzene
 Concen: 21.248 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	398670		
182	96.0	49.4	148.0	
145	25.1	11.9	35.9	

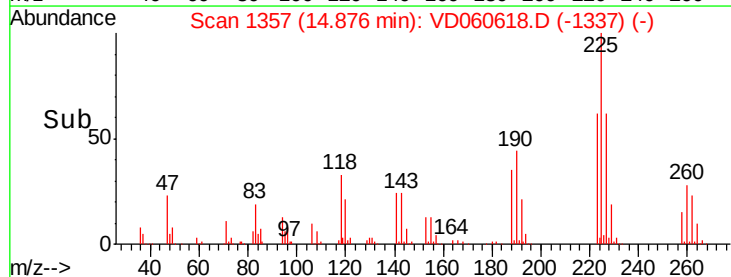
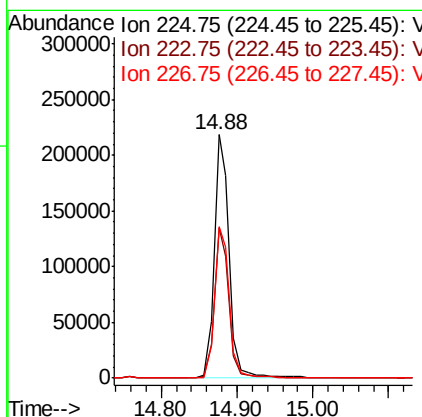
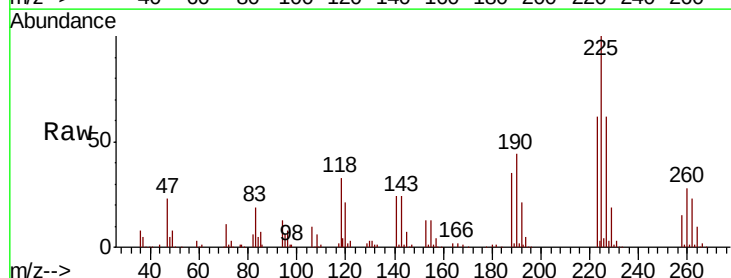
Manual Integrations
 APPROVED

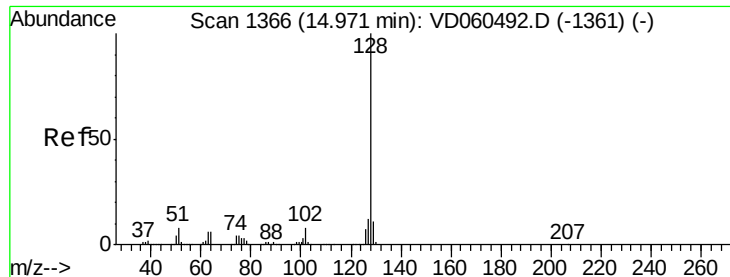
MMDadoda
 12/19/2018 2:12:04 PM



#94
 Hexachlorobutadiene
 Concen: 22.084 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VD060618.D
 Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	305713		
223	61.9	31.2	93.6	
227	62.3	32.0	96.0	





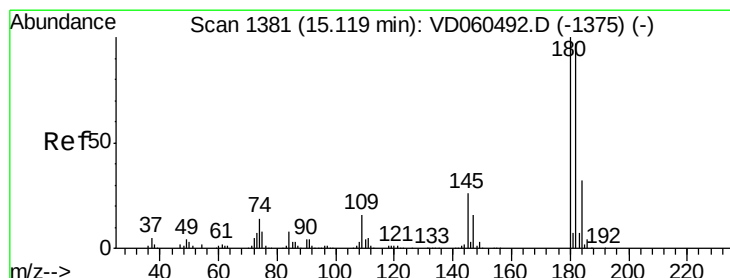
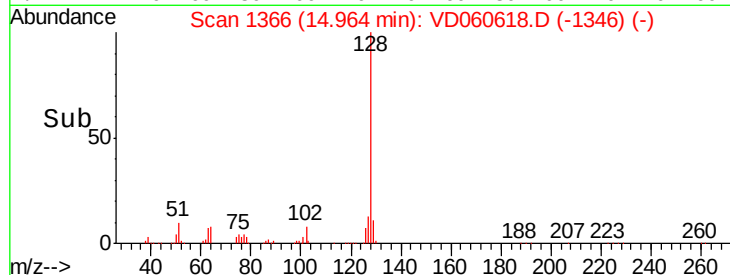
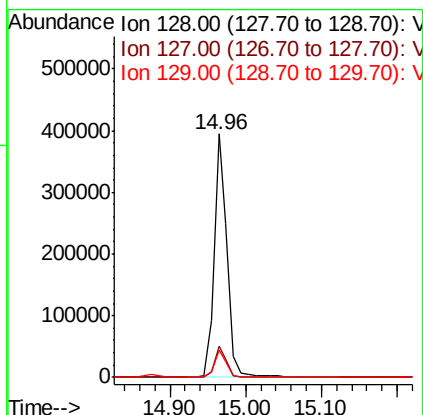
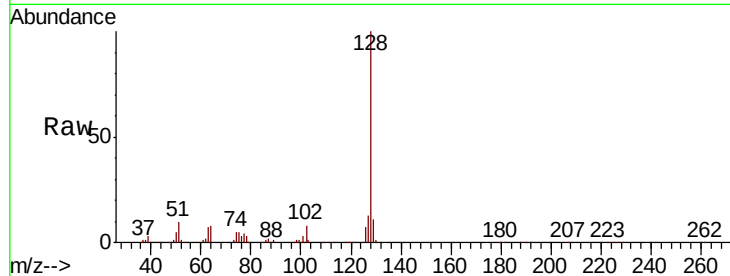
#95
Naphthalene
Concen: 21.292 ug/l
RT: 14.96 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Instrument :
MSVOA_D
ClientSampleId :
VD1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	475259		
127	12.7		9.8	14.8
129	11.3		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 2:12:04 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.914 ug/l
RT: 15.11 min Scan# 1381
Delta R.T. -0.01 min
Lab File: VD060618.D
Acq: 18 Dec 2018 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	312668		
182	96.9		48.5	145.5
145	28.6		12.9	38.7

